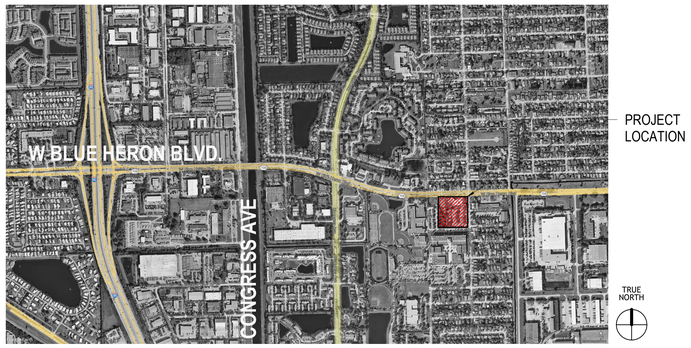
RIVIERA BEACH POLICE DEPARTMENT

2121 AVENUE S.
RIVIERA BEACH, FL 33404





10/14/2025

90% CONSTRUCTION DOCUMENTS/PERMIT SET

VOL I - SITE AND ADMINISTRATION

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HOBOKEN
HOUSTON
LAS VEGAS
LOS ANGELES
SALT LAKE CITY
SAN DIEGO

REGISTRATION
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STATE OF FLORIDA JOBY L. BALINT REGISTERED ARCHITECT AR0016653
JOBY L. BALINT, AIA AR-0016653

DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
1	7/9/2025	Site Plan Resubmission
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

PROJECT NUMBER
1007657.00

SHEET TITLE
COVER SHEET

SHEET NUMBER
G0.00

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
DATE STAMP: 10/24/2025 1:29:55 PM

VOL I SHEET INDEX - SITE & ADMINISTRATION

Discipline	Sheet №	Sheet Name	Current Issue	Current Issue Date	Current Issue Description
GENERAL					
GENERAL	G0.00	COVER SHEET	E	10/14/2025	90% Construction Documents/Permit Set
GENERAL	G0.01	SHEET INDEX	E	10/14/2025	90% Construction Documents/Permit Set
GENERAL	G0.02	GENERAL PROJECT INFORMATION	E	10/14/2025	90% Construction Documents/Permit Set
GENERAL	G0.03	ACCESSIBILITY INFORMATION AND DIAGRAMS	E	10/14/2025	90% Construction Documents/Permit Set
GENERAL	G0.04	TYPICAL MOUNTING HEIGHTS	E	10/14/2025	90% Construction Documents/Permit Set
LIFE SAFETY					
LIFE SAFETY	LS0.10	LIFE SAFETY CODE ANALYSIS - ADMIN BLDG	E	10/14/2025	90% Construction Documents/Permit Set
LIFE SAFETY	LS2.10	GROUND FLOOR LIFE SAFETY PLAN	E	10/14/2025	90% Construction Documents/Permit Set
LIFE SAFETY	LS2.20	SECOND FLOOR LIFE SAFETY PLAN	E	10/14/2025	90% Construction Documents/Permit Set
SURVEY/MAPPING					
SURVEY/MAPPING	V-1	BOUNDARY SURVEY	E	10/14/2025	90% Construction Documents/Permit Set
SURVEY/MAPPING	V-2	BOUNDARY SURVEY	E	10/14/2025	90% Construction Documents/Permit Set
CIVIL					
CIVIL	C-0	CIVIL COVER SHEET	E	10/14/2025	90% Construction Documents/Permit Set
CIVIL	C-1	CIVIL GENERAL NOTES AND SPECIFICATIONS	E	10/14/2025	90% Construction Documents/Permit Set
CIVIL	C-2	PAVING AND GRADING PLAN	E	10/14/2025	90% Construction Documents/Permit Set
CIVIL	C-3	DRAINAGE PLAN	E	10/14/2025	90% Construction Documents/Permit Set
CIVIL	C-3.1	PAVING GRADING AND DRAINAGE DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
CIVIL	C-3.2	PAVING AND GRADING SECTIONS	E	10/14/2025	90% Construction Documents/Permit Set
CIVIL	C-4	WATER AND SANITARY SEWER PLAN	E	10/14/2025	90% Construction Documents/Permit Set
CIVIL	C-4.1	WATER AND SANITARY SEWER DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
CIVIL	C-4.2	WATER AND SANITARY SEWER DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
CIVIL	C-5	PAVEMENT MARKING AND SIGNAGE PLAN	E	10/14/2025	90% Construction Documents/Permit Set
CIVIL	C-6	POLLUTION AND EROSION CONTROL PLAN	E	10/14/2025	90% Construction Documents/Permit Set
CIVIL	C-7	SITE DEMOLITION PLAN	E	10/14/2025	90% Construction Documents/Permit Set
LANDSCAPE					
LANDSCAPE	TD-1	TREE DISPOSITION PLAN	E	10/14/2025	90% Construction Documents/Permit Set
LANDSCAPE	TD-2	TREE DISPOSITION CHART	E	10/14/2025	90% Construction Documents/Permit Set
LANDSCAPE	TD-3	TREE DISPOSITION CHART	E	10/14/2025	90% Construction Documents/Permit Set
LANDSCAPE	TD-4	TREE DISPOSITION CHART	E	10/14/2025	90% Construction Documents/Permit Set
LANDSCAPE	TD-5	TREE DISPOSITION CHART & DETAIL	E	10/14/2025	90% Construction Documents/Permit Set
LANDSCAPE	LD-1	LANDSCAPE PLAN	E	10/14/2025	90% Construction Documents/Permit Set
LANDSCAPE	LD-2	LANDSCAPE SPECIFICATIONS	E	10/14/2025	90% Construction Documents/Permit Set
LANDSCAPE	LD-3	LANDSCAPE DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
LANDSCAPE	LD-4	ARTIFICIAL TURF DRAINAGE PLAN	E	10/14/2025	90% Construction Documents/Permit Set
LANDSCAPE	LD-5	ARTIFICIAL TURF DRAINAGE DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
LANDSCAPE	IR-1	IRRIGATION PLAN	E	10/14/2025	90% Construction Documents/Permit Set
LANDSCAPE	IR-2	IRRIGATION SPECIFICATIONS	E	10/14/2025	90% Construction Documents/Permit Set
LANDSCAPE	IR-3	IRRIGATION DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
DEMOLITION					
DEMOLITION	AD1.00	OVERALL ARCHITECTURAL DEMOLITION PLAN	E	10/14/2025	90% Construction Documents/Permit Set
DEMOLITION	AD1.10	AQUATIC COMPLEX DEMOLITION PLAN	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE					
ARCHITECTURE	A0.10	GENERAL PARTITION NOTES, DETAILS, AND TYPES	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A0.11	PARTITION TYPES	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A0.12	UL/ FIRE RATED PENETRATION DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A0.16	TYPICAL PARTITION DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A0.20	MATERIAL & FINISH SCHEDULE	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A0.21	EXTERIOR SIGNAGE TYPES + DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A0.22	TRANSITION DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A0.30	GROUND FLOOR DOOR SCHEDULE & DOOR FRAME/PANEL ELEVATIONS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A0.31	SECOND FLOOR DOOR SCHEDULE & DOOR FRAME/PANEL ELEVATIONS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A0.35	DOOR DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A0.36	SECURITY DOOR DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A0.37	OPERABLE DOOR DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A0.38	NANAWALL DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A0.40	GLAZING SCHEDULE & EXTERIOR WINDOW ELEVATIONS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A0.41	INTERIOR WINDOW ELEVATIONS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A0.42	STOREFRONT / WINDOW WALL DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A0.60	INTERIOR SIGNAGE TYPE AND DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A0.61	INTERIOR SIGNAGE TYPE AND DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A1.01	ARCHITECTURAL SITE PLAN	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A1.05	GENERATOR BUILDING - PLANS & ELEVATIONS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A1.10	SITE DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A1.11	SITE DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A1.12	SITE DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A2.10A	GROUND FLOOR ANNOTATION PLAN	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A2.10D	GROUND FLOOR DIMENSION PLAN	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A2.10F	GROUND FLOOR FURNITURE AND EQUIPMENT PLAN	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A2.20A	SECOND FLOOR ANNOTATION PLAN	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A2.20D	SECOND FLOOR DIMENSION PLAN	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A2.20F	SECOND FLOOR FURNITURE AND EQUIPMENT PLAN	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A2.30	ROOF PLAN	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A3.10	GROUND FLOOR REFLECTED CEILING PLAN	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A3.20	SECOND FLOOR REFLECTED CEILING PLAN	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A4.01	ENLARGED FLOOR PLAN - COMMUNICATIONS ROOMS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A4.02	ENLARGED PLANS & INTERIOR ELEVATIONS - LOBBY & EVIDENCE DROP	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A4.03	ENLARGED PLANS & INTERIOR ELEVATIONS - HOLDING CELL	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A4.04	ENLARGED FLOOR PLAN - CRIME SCENE LAB	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A4.05	ENLARGED PLANS & INTERIOR ELEVATIONS - LOCKER ROOM	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A4.06	ENLARGED PLANS & INTERIOR ELEVATIONS - RESTROOMS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A4.07	ENLARGED PLANS & INTERIOR ELEVATIONS - RESTROOMS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A4.08	ENLARGED PLANS & INTERIOR ELEVATIONS - BREAK ROOM	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A4.09	ENLARGED PLANS & INTERIOR ELEVATIONS - EXECUTIVE CONFERENCE ROOM	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A4.10	ENLARGED PLANS & INTERIOR ELEVATIONS - CONFERENCE ROOM / BREAK ROOM	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A4.11	ENLARGED PLANS - HIGH DENSITY STORAGE	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A4.50	ENLARGED PLANS AND SECTIONS - STAIR A	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A4.51	ENLARGED PLANS AND SECTIONS - STAIR B	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A4.52	VERTICAL CIRCULATION DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A4.60	ENLARGED ELEVATOR FLOOR PLANS AND SECTIONS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A5.10	PLAN DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A5.11	COLUMN AND FRAMING PLAN DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A7.00	BUILDING SECTIONS - ADMIN	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A7.20	WALL SECTIONS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A7.21	WALL SECTIONS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A7.22	WALL SECTIONS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A7.23	WALL SECTIONS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A7.24	WALL SECTIONS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A7.25	WALL SECTIONS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A7.30	WALL SECTION DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A7.31	WALL SECTION DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A7.50	ROOF DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A7.51	ROOF DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	AF1.10	ROOM FINISH SCHEDULES	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	AF2.10	GROUND FLOOR FINISH PLAN	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	AF2.20	SECOND FLOOR FINISH PLAN	E	10/14/2025	90% Construction Documents/Permit Set

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Discipline	Sheet №	Sheet Name	Current Issue	Current Issue Date	Current Issue Description
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STRUCTURAL	S1.1	STRUCTURAL SCHEDULES	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S1.2	BUILDING ISOMETRICS	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S1.3	BUILDING ISOMETRICS	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S1.4	MASONRY WALL ISOMETRIC	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S2.0	FOUNDATION PLAN	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S2.1	SECOND FLOOR PLAN	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S2.2	ROOF FRAMING PLAN	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S2.3	GYM AND CUPOLA ROOF PLANS	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S2.4	PANEL LAYOUT PLAN	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S3.0	BUILDING SECTIONS	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S3.1	BUILDING SECTIONS	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S3.2	BUILDING SECTIONS	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S3.3	BUILDING SECTIONS	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S3.4	BUILDING SECTIONS	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S4.0	FOUNDATION DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S4.1	FLOOR FRAMING DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S4.2	ROOF FRAMING DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S5.0	PANEL DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S5.1	PANEL DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
FIRE PROTECTION					
FIRE PROTECTION	F0.01	GENERAL NOTES - FIRE PROTECTION	E	10/14/2025	90% Construction Documents/Permit Set
FIRE PROTECTION	F0.10	SITE PLAN - FIRE PROTECTION	E	10/14/2025	90% Construction Documents/Permit Set
FIRE PROTECTION	F1.01	1ST FLOOR PLAN - ADMIN - FIRE PROTECTION	E	10/14/2025	90% Construction Documents/Permit Set
FIRE PROTECTION	F1.02	2ND FLOOR PLAN - ADMIN - FIRE PROTECTION	E	10/14/2025	90% Construction Documents/Permit Set
FIRE PROTECTION	F1.05	GENERATOR BUILDING FLOOR PLAN - FIRE PROTECTION	E	10/14/2025	90% Construction Documents/Permit Set
FIRE PROTECTION	F5.01	FIRE PUMP DETAILS - FIRE PROTECTION	E	10/14/2025	90% Construction Documents/Permit Set
FIRE PROTECTION	F5.02	DETAILS - FIRE PROTECTION	E	10/14/2025	90% Construction Documents/Permit Set
FIRE PROTECTION	F5.03	DETAILS - FIRE PROTECTION	E	10/14/2025	90% Construction Documents/Permit Set
FIRE PROTECTION	F6.01	SCHEDULES - FIRE PROTECTION	E	10/14/2025	90% Construction Documents/Permit Set
PLUMBING					
PLUMBING	P0.01	GENERAL NOTES, ABBREVIATIONS & SYMBOLS - PLUMBING	E	10/14/2025	90% Construction Documents/Permit Set
PLUMBING	P0.10	SITE PLAN - PLUMBING	E	10/14/2025	90% Construction Documents/Permit Set
PLUMBING	P1.00	FOUNDATION PLAN - ADMIN - PLUMBING	E	10/14/2025	90% Construction Documents/Permit Set
PLUMBING	P1.01	1ST FLOOR PLAN - ADMIN - WASTE - PLUMBING	E	10/14/2025	90% Construction Documents/Permit Set
PLUMBING	P1.02	2ND FLOOR PLAN - ADMIN - WASTE - PLUMBING	E	10/14/2025	90% Construction Documents/Permit Set
PLUMBING	P1.05	GENERATOR BUILDING FLOOR PLAN - PLUMBING	E	10/14/2025	90% Construction Documents/Permit Set
PLUMBING	P1.10	ROOF PLAN - ADMIN - PLUMBING	E	10/14/2025	90% Construction Documents/Permit Set
PLUMBING	P2.01	1ST FLOOR PLAN - ADMIN - DOMESTIC - PLUMBING	E	10/14/2025	90% Construction Documents/Permit Set
PLUMBING	P2.02	2ND FLOOR PLAN - ADMIN - DOMESTIC - PLUMBING	E	10/14/2025	90% Construction Documents/Permit Set
PLUMBING	P4.01	SANITARY WASTE & VENT RISER (EAST) - PLUMBING	E	10/14/2025	90% Construction Documents/Permit Set
PLUMBING	P4.02	SANITARY WASTE & VENT RISER (WEST) - PLUMBING	E	10/14/2025	90% Construction Documents/Permit Set
PLUMBING	P4.03	DOMESTIC WATER RISER (EAST) - PLUMBING	E	10/14/2025	90% Construction Documents/Permit Set
PLUMBING	P4.04	DOMESTIC WATER RISER (WEST) - PLUMBING	E	10/14/2025	90% Construction Documents/Permit Set
PLUMBING	P4.05	NATURAL GAS RISER - PLUMBING	E	10/14/2025	90% Construction Documents/Permit Set
PLUMBING	P5.01	DETAILS - PLUMBING	E	10/14/2025	90% Construction Documents/Permit Set
PLUMBING	P5.02	DETAILS - PLUMBING	E	10/14/2025	90% Construction Documents/Permit Set
PLUMBING	P6.01	SCHEDULES - PLUMBING	E	10/14/2025	90% Construction Documents/Permit Set
MECHANICAL					
MECHANICAL	M0.01	GENERAL NOTES - HVAC	E	10/14/2025	90% Construction Documents/Permit Set
MECHANICAL	M1.01	1ST FLOOR - ADMIN - HVAC ZONING PLAN	E	10/14/2025	90% Construction Documents/Permit Set
MECHANICAL	M1.02	2ND FLOOR - ADMIN - HVAC ZONING PLAN	E	10/14/2025	90% Construction Documents/Permit Set
MECHANICAL	M1.03	1ST FLOOR PLAN - ADMIN - HVAC	E	10/14/2025	90% Construction Documents/Permit Set
MECHANICAL	M1.04	2ND FLOOR PLAN - ADMIN - HVAC	E	10/14/2025	90% Construction Documents/Permit Set
MECHANICAL	M1.05	GENERATOR BUILDING FLOOR PLAN - HVAC	E	10/14/2025	90% Construction Documents/Permit Set
MECHANICAL	M1.06	ROOF PLAN - ADMIN - HVAC	E	10/14/2025	90% Construction Documents/Permit Set
MECHANICAL	M5.01	DETAILS - HVAC	E	10/14/2025	90% Construction Documents/Permit Set
MECHANICAL	M6.01	SCHEDULES - HVAC	E	10/14/2025	90% Construction Documents/Permit Set
MECHANICAL	M7.01	CONTROLS - HVAC	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL					
ELECTRICAL	E0.01	GENERAL NOTES - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E0.02	LUMINAIRE SCHEDULE - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E0.10	SITE PLAN - LIGHTING	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E0.11	SITE PLAN - PHOTOMETRICS	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E0.20	SITE PLAN - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E1.01	1ST FLOOR PLAN - ADMIN - LIGHTING	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E1.02	2ND FLOOR - ADMIN - HVAC ZONING PLAN	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E2.01	1ST FLOOR PLAN - ADMIN - POWER	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E2.01M	1ST FLOOR PLAN - ADMIN - POWER MECHANICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E2.02	2ND FLOOR PLAN - ADMIN - POWER	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E2.02M	2ND FLOOR PLAN - ADMIN - POWER MECHANICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E3.01	1ST FLOOR PLAN - ADMIN - FIRE ALARM	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E3.02	2ND FLOOR PLAN - ADMIN - FIRE ALARM	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E4.01	ENLARGED PLANS - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E4.02	ROOF PLAN - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E4.03	GENERATOR BUILDING FLOOR PLAN - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E5.01	RISER DIAGRAM - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E5.02	FIRE ALARM RISER DIAGRAM - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E6.01	DETAILS - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E6.02	DETAILS - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E6.03	DETAILS - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E6.04	DETAILS - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E6.05	DETAILS - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E6.06	DETAILS - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E6.07	DETAILS - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E7.01	SCHEDULES - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E7.02	SCHEDULES - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E7.03	SCHEDULES - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E7.04	SCHEDULES - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E7.05	SCHEDULES - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E8.01	CONTROLS - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E8.02	CONTROLS - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E8.03	1ST FLOOR EMERGENCY PHOTOMETRICS - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E8.04	2ND FLOOR EMERGENCY PHOTOMETRICS - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
TECHNOLOGY					
TECHNOLOGY	T0.01	GENERAL NOTES - TECHNOLOGY	E	10/14/2025	90% Construction Documents/Permit Set
TECHNOLOGY	T0.10	SITE PLAN - TECHNOLOGY	E	10/14/2025	90% Construction Documents/Permit Set
TECHNOLOGY	T1.01	1ST FLOOR PLAN - ADMIN - TECHNOLOGY	E	10/14/2025	90% Construction Documents/Permit Set
TECHNOLOGY	T1.02	2ND FLOOR PLAN - ADMIN - TECHNOLOGY	E	10/14/2025	90% Construction Documents/Permit Set
TECHNOLOGY	T2.01	ENLARGED PLANS - TECHNOLOGY	E	10/14/2025	90% Construction Documents/Permit Set
TECHNOLOGY	T2.02	ENLARGED PLANS - TECHNOLOGY	E	10/14/2025	90% Construction Documents/Permit Set
TECHNOLOGY	T3.01	CONDUIT RISER DIAGRAM - TECHNOLOGY	E	10/14/2025	90% Construction Documents/Permit Set
TECHNOLOGY	T3.02	BDA RISER DIAGRAM - TECHNOLOGY	E	10/14/2025	90% Construction Documents/Permit Set
TECHNOLOGY	T4.01	DETAILS - TECHNOLOGY	E	10/14/2025	90% Construction Documents/Permit Set
TECHNOLOGY	T4.02	DETAILS - TECHNOLOGY	E	10/14/2025	90% Construction Documents/Permit Set
TECHNOLOGY	T4.03	DETAILS - TECHNOLOGY	E	10/14/2025	90% Construction Documents/Permit Set

VOL II SHEET INDEX - EVIDENCE & FIRING RANGE

Discipline	Sheet №	Sheet Name	Current Issue	Current Issue Date	Current Issue Description
GENERAL					
GENERAL	G0.00E	COVER SHEET	E	10/14/2025	90% Construction Documents/Permit Set
GENERAL	G0.01E	SHEET INDEX	E	10/14/2025	90% Construction Documents/Permit Set
GENERAL	G0.02E	GENERAL SYMBOLS, ABBREVIATIONS & INFORMATION	E	10/14/2025	90% Construction Documents/Permit Set
GENERAL	LS2.10E	LIFE SAFETY	E	10/14/2025	90% Construction Documents/Permit Set
GENERAL	LS2.15E	LIFE SAFETY - MEZZANINE	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE					
ARCHITECTURE	A0.10E	PARTITION TYPES & DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A0.11E	PARTITION DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A0.12E	UL ASSEMBLIES	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A0.13E	UL ASSEMBLIES	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A0.30E	DOOR SCHEDULES, TYPES, AND FRAMES	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A0.35E	HOLLOW METAL FRAME & TYP. DOOR DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A0.36E	STOREFRONT DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A0.37E	STOREFRONT DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A0.50E	SIGNAGE SCHEDULE	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A0.55E	SIGNAGE DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A2.10E	FLOOR PLAN, GROUND - EVIDENCE/ FIRING RANGE	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A2.15E	FLOOR PLAN, MEZZANINE - EVIDENCE/ FIRING RANGE	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A2.30E	FLOOR PLAN, ROOF - EVIDENCE/ FIRING RANGE	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A3.10E	OVERALL REFLECTED CEILING PLAN - EVIDENCE/ FIRING RANGE	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A4.01E	ENLARGED EQUIPMENT PLAN - LEVEL 1	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A4.02E	ENLARGED EQUIPMENT PLAN - LEVEL 1	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A4.03E	INTERIOR ELEVATIONS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A4.50E	STAIR PLANS AND SECTIONS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A4.51E	VERTICAL CIRCULATION DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A5.10E	PLAN DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A5.20E	CEILING DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A6.00E	EXTERIOR ELEVATIONS - EVIDENCE/ FIRING RANGE	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A6.10E	STOREFRONT ELEVATIONS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A7.00E	BUILDING SECTIONS - EVIDENCE/ FIRING RANGE	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A7.20E	WALL SECTIONS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A7.21E	FIRING RANGE DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A7.50E	ROOF DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A7.51E	EXTERIOR DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	A7.65E	MILLWORK DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
ARCHITECTURE	AF2.10E	FINISH PLAN - LEVEL 1	E	10/14/2025	90% Construction Documents/Permit Set
EQUIPMENT					
EQUIPMENT	Q1.01E	FIRING RANGE EQUIPMENT DRAWINGS	E	10/14/2025	90% Construction Documents/Permit Set
EQUIPMENT	Q1.02E	FIRING RANGE EQUIPMENT DRAWINGS	E	10/14/2025	90% Construction Documents/Permit Set
EQUIPMENT	Q1.03E	FIRING RANGE EQUIPMENT DRAWINGS	E	10/14/2025	90% Construction Documents/Permit Set
EQUIPMENT	Q1.04E	FIRING RANGE EQUIPMENT DRAWINGS	E	10/14/2025	90% Construction Documents/Permit Set
EQUI

PROJECT GRAPHIC STANDARDS

PROJECT SYMBOLS

TRUE NORTH — PLAN NORTH / NORTH ARROW

ALTERNATE: TRUE NORTH — TRUE NORTH / NORTH ARROW

78.0 — EXISTING POINT ELEVATION

79.0 — NEW OR FINISH POINT ELEVATION

LEVEL POINT / DATUM POINT

A250 — PARTITION TYPE (RE: PARTITION SCHEDULE)

02123 — LEVEL / DOOR NUMBER / (RE: DOOR SCHEDULE)

ROOM — ROOM NAME

02132 — (RE: ROOM FINISH SCHEDULE) / ROOM NUMBER / LEVEL / SECTOR/AREA

ALTERNATE: ? A.F.F.

? — CEILING TYPE

? A.F.F. — CEILING HEIGHT / (RE: ROOM FINISH SCHEDULE)

EXIT SIGN / DIRECTION SYMBOL

MATCHLINE / SEE ? / ? — MATCHLINE / VIEW REFERENCE

C1 — CURTAIN PANEL TAG

W1 — WINDOW TAG

L1 — LOUVER TAG

ABC-1 — SPECIALTY EQUIPMENT TAG

ABC-1 — FURNITURE TAG

2 — REVISION TAG

A10 — SHEET KEYNOTE

FINISH KEYNOTES:

F1 — FLOOR MATERIALS/FINISHES

G1 — GLAZING MATERIAL/FINISH

PT-1 — WALL MATERIALS/FINISHES

012233.A1 — MasterSpec KEYNOTE

012233.A1 DESCRIPTION — MasterSpec KEYNOTE w DESCRIPTION

PROJECT SYMBOLS

? / 1 / (A) — COLUMN LINE REFERENCE

1 / A — EXISTING/NEW COLUMN LINE REFERENCE

10 / A7.01 SIM — DETAIL NUMBER REFERENCE / LARGE CALLOUT REFERENCE / SHEET NUMBER

10 / A7.01 SIM — DETAIL NUMBER REFERENCE / SMALL CALLOUT REFERENCE / SHEET NUMBER

ALTERNATES: 10 / A7.101 SIM ?/?

EXTERIOR

1 / A101 SIM — ELEVATION NUMBER / SHEET NUMBER / REFERENCE

ALTERNATES:

INTERIOR

10 SIM / A101 — 1 / A101 SIM — ELEVATION NUMBER / SHEET NUMBER / REFERENCE

10 / A7.101 SIM — REFERENCE / BUILDING SECTION REFERENCE

ALTERNATE: 10 / A7.101 — 10 / A7.101 SIM — REFERENCE / BUILDING SECTION REFERENCE

C — CENTER LINE, & SYMBOL

ABOVE LINE

BEYOND LINE

BREAK LINE

F1 — F1 — FLOOR FINISH TRANSITION

ALTERNATE: B1 / 30 | 34 | 24 — CASEWORK TYPE / SIZE (WxH)

0 4'-0" 8'-0" 16'-0" — SCALE

CONSTRUCTION TYPE SYMBOLS

NEW CONSTRUCTION

EXISTING TO REMAIN CONSTRUCTION

EXISTING CONST TO BE DEMOLISHED

NEW 30 MIN. RATED CONSTRUCTION

NEW 1 HR. RATED CONSTRUCTION

NEW 2 HR. RATED CONSTRUCTION

NEW 3 HR. RATED CONSTRUCTION

NEW 4 HR. RATED CONSTRUCTION

MATERIAL SYMBOLS - PLAN

BRICK

CONCRETE MASONRY UNIT

CONCRETE

CAST-IN-PLACE CONCRETE

PRECAST CONCRETE

STONE

GRAVEL

COMPACTED EARTH FILL

SAND

MATERIAL SYMBOLS - DETAIL

STEEL

OTHER METALS

BATT INSULATION

RIGID INSULATION

GYPSUM BOARD

PLASTER ON LATHE

PLYWOOD

MDF BOARD

FINISHED WOOD

GLASS

TILE

CARPET

ACOUSTICAL TILE

CONTINUOUS WOOD BLOCKING

WOOD SHIM

GRAVEL

CONCRETE

SAND

RCP REFERENCE SYMBOLS

RECESSED DOWNLIGHT

WATERPROOF RECESSED DOWNLIGHT

PENDANT LIGHT

SURFACE MOUNTED CEILING LIGHT FIXTURE

JUNCTION BOX

WALL SCONCE

WALL MOUNTED LIGHT

SURFACE MOUNTED FLUORESCENT LIGHT

UNDER CABINET LIGHT

TRACK LIGHT

CABLE TRACK LIGHT

SUPPLY AIR GRILLE

RETURN AIR GRILLE

EXHAUST AIR GRILLE

WALL EXHAUST GRILLE

WALL SUPPLY GRILLE

ELECTRICAL PANEL

CONTINUOUS AIR SUPPLY & RETURN SLOT

SPRINKLER HEAD

SD — SMOKE DETECTOR

S — ALARM SPEAKER

EXIT LIGHT

WALL WASHERS

ACCESS PANEL

EXIT SIGNAGE WITH DIRECTION ARROW TO EXIT DOOR

RCP REFERENCE SYMBOLS - MECH

BLDG. STND. SPRINKLER HEAD

BLDG. STND. SLOT DIFFUSER

BLDG. STND. LAY-IN SUPPLY AIR GRILLE

BLDG. STND. LAY-IN RETURN AIR GRILLE

EF — EXHAUST FAN

*REFER TO MEP DRAWINGS FOR ADDITIONAL INFO.

RCP REFERENCE SYMBOLS - LIGHTING

EXISTING LIGHT FIXTURE TO REMAIN

2' x 4' FLUORESCENT LIGHT FIXTURE BUILDING STANDARD, UNO.

2' x 2' FLUORESCENT LIGHT FIXTURE BUILDING STANDARD, UNO

RECESSED DOWNLIGHT

RECESSED WALL WASHER

WALL MOUNTED SCONCE
RE: ELEVATIONS FOR MOUNTING HEIGHT

EXIT SIGN FIXTURE
BUILDING STANDARD, UNO

FLUORESCENT STRIP LIGHT

TRACK WITH LIGHT FIXTURE

1' x 4' OR 1' x 8' PENDANT FIXTURE

CEILING MOUNTED PROJECTOR

T-BAR SUSPENDED CEILING GRID SYSTEM
RE: SHEET A2.1.2 FOR ADDITIONAL INFORMATION.

MATERIAL SYMBOLS - OTHER

CROSSHATCH [DRAFTING]

DIAGONAL CROSSHATCH_D [DRAFTING]

DIAG CROSSHATCH_D [DRAFTING]

DIAG DOWN SMALL_D [DRAFTING]

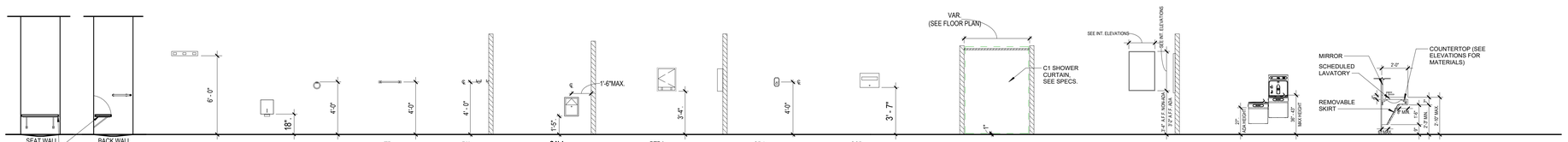
DIAG DOWN SMALL_D [DRAFTING]

CROSSHATCH

CROSSHATCH

CROSSHATCH

MISC. PLUMBING/TOILET ACCESSORIES MOUNTING DIAGRAMS



SBH FOLDING SHOWER SEAT- SEAT TO EXTEND FULL DEPTH OF STALL MOUNT ON WALL OPPOSITE CONTROLS

M.H LOCATED AT JANITOR CLOSET

T.P.1 TOILET PAPER HOLDER

TR TOWEL RING

TB TOWEL BAR

RH ACCESSIBLE DOUBLE ROBE HOOK WITH CONCEALED MOUNTING

S.N.1 SANITARY NAPKIN DISPOSAL SURFACE MOUNTED, STAINLESS STEEL.

PTD1 AUTOMATIC PAPER TOWEL DISPENSER

SD1 LIQUID SOAP DISPENSER.

SCD. SEAT COVER DISPENSER.

SHR STRAIGHT SHOWER CURTAIN ROD STAINLESS STEEL. MOUNTING HEIGHT TO BE 77" A.F.F.

MR.1 30"W X 36"H; MIRROR WITH STAINLESS STEEL CHANNEL NOTE: MIRROR IS PLACED ABOVE LAV.

P-BF-WC HYDRATION STATION

TYPICAL ADA LAVATORY AT COUNTERTOP

PLUMBING ELEMENTS AND FACILITIES

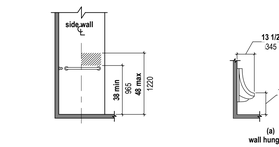


Figure 608.5.1
Transfer-Type Shower Compartment Control Location

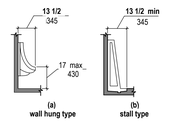


Figure 605.2
Height and Depth of Urinals

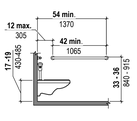


Figure 604.5.1
Side Wall Grab Bar at Water Closets

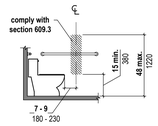


Figure 604.7
Dispenser Outlet Location



Figure 604.3.1
Size of Clearance at Water Closets

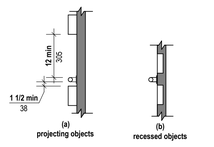


Figure 609.3
Spacing of Grab Bars

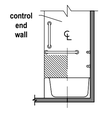


Figure 607.5
Bathtub Control Location

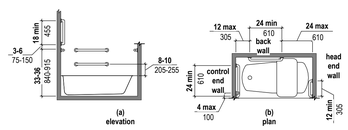


Figure 607.4.2
Grab Bars for Bathtubs with Removable In-Tub Seats

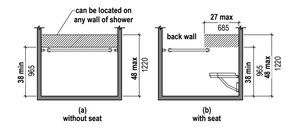
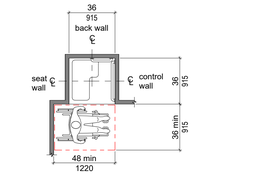


Figure 608.5.2
Standard Roll-In Type Shower Compartment Control Location



Note: Inside finished dimensions measured at the center points of opposing sides. ADA transfer shower compartment inside dimensions shall be 36" by 36" clear.

Figure 608.2.1
Transfer Type Shower Compartment Size and Clearance

Figure 602.5
Drinking Fountain Spout Location

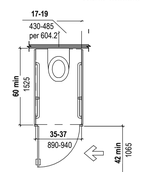


Figure 604.8.2
Ambulatory Accessible Toilet Compartment

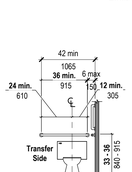


Figure 604.5.2
Rear Wall Grab Bar at Water Closets

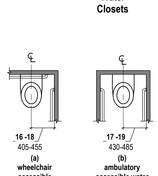


Figure 604.2
Water Closet Location

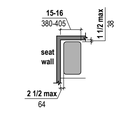


Figure 610.3.1
Rectangular Shower Seat

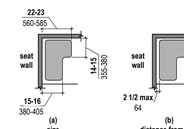


Figure 610.3.2
L-Shaped Shower Seat

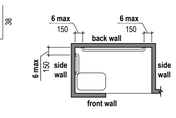


Figure 608.3.3
Grab Bars for Alternate Roll-In Type Showers

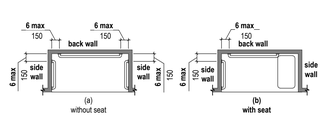


Figure 608.3.2
Grab Bars for Standard Roll-In Type Showers

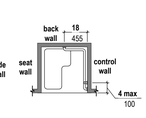


Figure 608.3.1
Grab Bars for Transfer-Type Showers

BUILDING BLOCKS

Figure 303.3
Beveled Change in Level

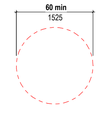


Figure 304.3.1
Circular Turning Space

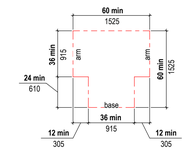


Figure 304.3.2
T-Shaped Turning Space

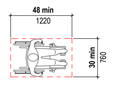


Figure 305.3
Clear Floor or Ground Space

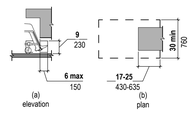


Figure 306.2
Toe Clearance

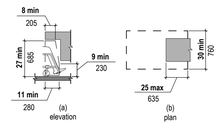


Figure 306.3
Knee Clearance

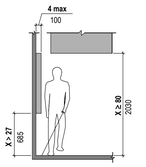


Figure 307.2
Limits of Protruding Objects and Vertical Clearance

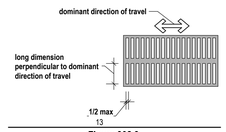


Figure 302.3
Elongated Openings in Floor or Ground Surfaces

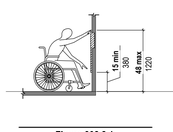


Figure 308.2.1
Unobstructed Forward Reach

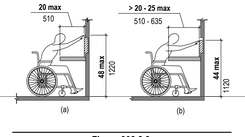


Figure 308.2.2
Obstructed High Forward Reach

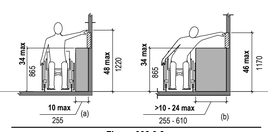


Figure 308.3.2
Unobstructed High Side Reach

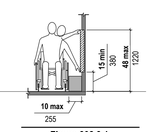


Figure 308.3.1
Unobstructed Side Reach

DOOR NOTES

GENERAL DOOR PLACEMENT NOTES:
ALL 3o7o INTERIOR SWING DOORS SHOULD BE LOCATED 2'-0" FROM CENTER OF DOOR TO ADJACENT PERPENDICULAR PARTITION OR OTHER SURFACE; UNLESS OTHERWISE DIMENSIONED ON THE FLOOR PLAN.

THE ADA CLEARANCES AS SHOWN IN FIGURE 404.2.4.1 TAKE PRECEDENCE FOR DOOR PLACEMENT TO MAINTAIN MANEUVERING CLEAR FLOOR SPACE. DIMENSION FROM ADJACENT PERPENDICULAR SURFACE HINGE SIDE OF DOOR FRAME CAN BE ADJUSTED +/- TO MAINTAIN ADA CLEAR MANEUVERING CLEARANCES FROM LATCH SIDE TO ADJACENT PERPENDICULAR PARTITION OR OTHER SURFACE.

FINISH DIMENSION FROM PERPENDICULAR SURFACE TO HINGE SIDE OF DOOR PANEL IN A FULLY OPEN POSITION SHALL BE NO LESS THAN 4".

ACCESSIBLE ROUTES

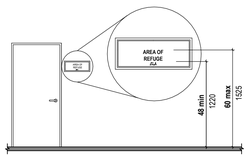


Figure 703.4.1
Height of Tactile Characters Above Floor or Ground

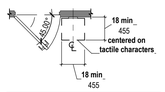


Figure 703.4.2
Location of Tactile Signs at Doors

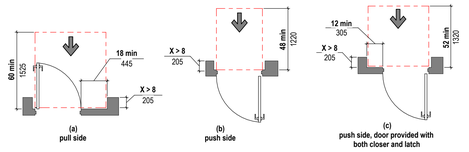


Figure 404.2.4.3
Maneuvering Clearance at Recessed Doors and Gates

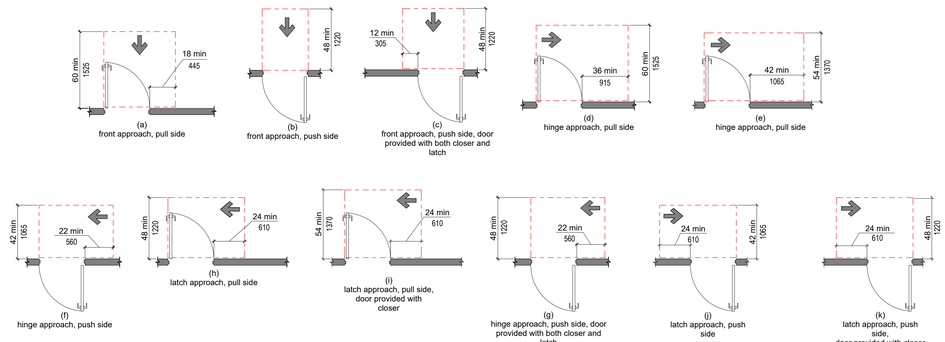


Figure 404.2.4.1
Maneuvering Clearance at Manual Swinging Doors and Gates

Graphic Convention for Figures

Convention	Description
36 / 915	dimension showing English units (in inches unless otherwise specified) above the line and SI units (in millimeters unless otherwise specified) below the line
6 / 150	dimension for small measurements
33-36 / 840-915	dimension showing a range with minimum - maximum
min	minimum
max	maximum
>	greater than
≥	greater than or equal to
<	less than
≤	less than or equal to
	boundary of clear floor space or maneuvering clearance
	centerline
	a permitted element or its extension
	direction of travel or approach
	a wall, floor, ceiling or other element cut in section or plan
	a highlighted element in elevation or plan
	location zone of element, control or feature

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B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

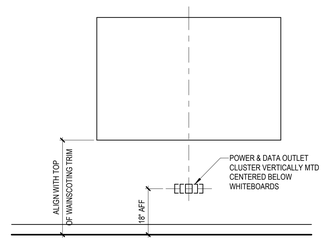
PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER
1007657.00

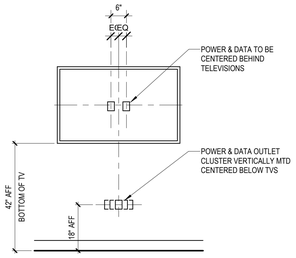
SHEET TITLE
ACCESSIBILITY INFORMATION AND DIAGRAMS

SHEET NUMBER
G0.03

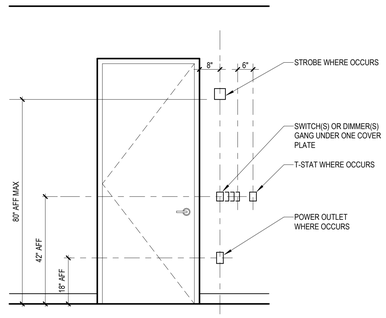
FILE NAME: Autodesk Docs://. 1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
DATE STAMP: 10/24/2025 1:30:28 PM



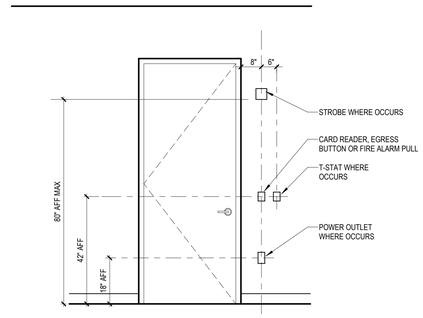
LOCATIONS @ WALL MOUNTED WHITEBOARDS



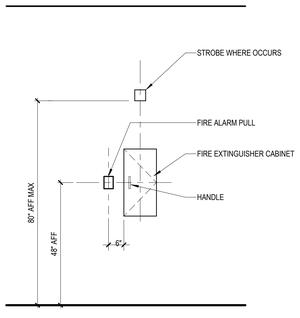
LOCATIONS @ WALL MOUNTED TV



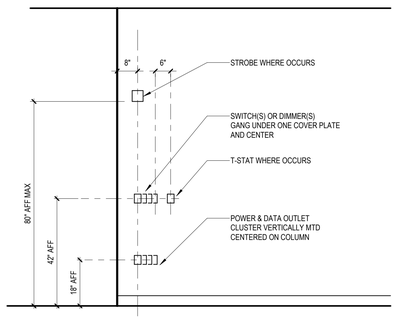
LOCATIONS @ DOOR JAMBS STROBE, SWITCHES, THERMOSTAT AND OUTLET LOCATIONS @ CASED OPENINGS, SIM.



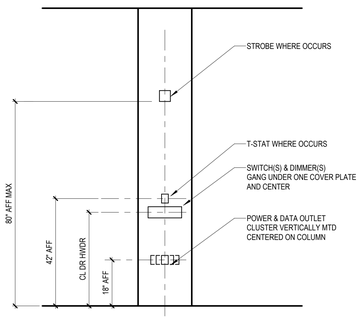
LOCATIONS @ DOOR JAMBS STROBE, CARD READER, EGRESS BUTTON OR FIRE ALARM PULL, THERMOSTAT AND OUTLET



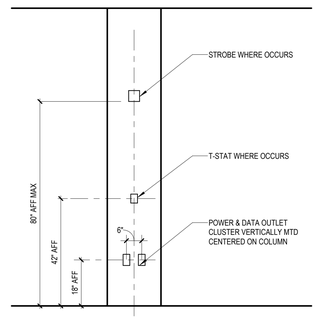
LOCATIONS @ FIRE EXTINGUISHER CABINET STROBE AND FIRE ALARM PULL



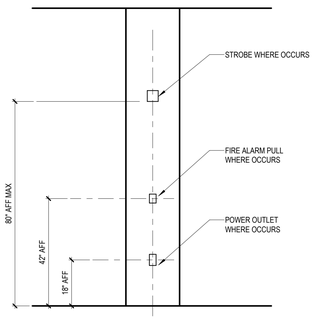
LOCATIONS @ CORNER STROBE, SWITCHES, THERMOSTAT AND OUTLET



LOCATIONS @ COLUMNS, BETWEEN DOORS, ETC. STROBE, THERMOSTAT, SWITCHES and OUTLET



LOCATIONS @ COLUMNS, BETWEEN DOORS, ETC. STROBE, THERMOSTAT and OUTLET CLUSTER



LOCATIONS @ COLUMNS, BETWEEN DOORS, ETC. STROBE, FIRE ALARM PULL AND OUTLET

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CONSULTANT

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PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER

1007657.00

SHEET TITLE

TYPICAL MOUNTING HEIGHTS

SHEET NUMBER

G0.04

PROJECT DESCRIPTION / APPLICABLE CODES:

A TWO-STORY POLICE HEADQUARTERS COMPLEX, SECURED STAFF PARKING, FLEXIBLE SECUED PARKING, AND PUBLIC PARKING. THE OVERALL PROJECT INCLUDES A SINGLE STORY BUILDING FOR LONG-TERM VEHICLE EVIDENCE STORAGE, VEHICLE EVIDENCE PROCESSING AND FIRING RANGE. THE PROJECT IS SPLIT INTO TWO VOLUMES. THESE BUILDINGS ARE CLASSIFIED AS CATEGORY TYPE IV "ESSENTIAL BUILDINGS. SEE STRUCTURAL DRAWINGS WITHIN THE SETS FOR ADDITIONAL INFORMATION ABOUT STRUCTURAL LOADS, WIND SPEEDS AND WIND PRESSURES.

VOLUME 1 - INCLUDES THE MAIN TWO-STORY ADMINISTRATIVE BUILDING AND SITE IMPROVEMENTS. ASO INCULDED IS THE EMERGENCY GENERATOR ENCLOSURE BUILDING WITH FIRE PUMP THAT SERVES THE COMPLEX.

A SECURED GROUND FLOOR ENTRY LOBBY WITH A SINGLE PRIVATE-USE ADA TOILET ROOM IS AVAILABLE TO THE PUBLIC. ADDITIONAL LAYERED SECURITY PROVIDES CONTROL FROM THE SECURE AREAS TO CONTROLLED INTERVIEW ROOMS WITH THE PUBLIC AND VICTIM ADVOCATE. A CONTROLLED VESTIBULE LINKS THE ENTRY LOBBY WITH THE TRAINING ROOM FOR JOINT ACTIVITIES WITH OTHER RELATED AGENCIES. TWO SINGLE-USE TOILET ROOMS ARE AVAILABLE WITHIN THE VESTIBLE TO SUPPORT THE TRAINING ROOM.

A TEMPORARY HOLDING AREA AND VEHICLE SALLYPORT WITH LAYERED SECURITY BETWEEN DAY TO DAY ADMINISTRATION FUNCTIONS AND HOLDING AREA. PRIVATE SINGLE-USE TEMPORARY HOLDING CELLS HAVE A COMBINATION DETENTION RATED STAINLESS STEEL TOILET AND SINK. THE WALLS WITHIN THIS AREA CONSIST OF NON-LOAD BEARING CMU.

THE BUILDING IS SELF-PROTECTED USING LOAD BEARING EXTERIOR CONCRETE TILT PANELS. THE SECOND FLOOR STRUCTURE IS NON-COMBUSTIBLE STEEL W-SHAPES, METAL DECKING AND CONCRETE. THE ROOF STRUCTURE IS NON-COMBUSTIBLE STEEL JOISTS AND STEEL W-SHAPES, METAL DECKING AND CONCRETE. THE ROOFING SYSTEM CONSISTS OF SINGLE PLY MEMBRANES OVER LIGHTWEIGHT INSULATING CONCRETE, WHICH SLOPES FOR ROOF DRAINAGE.

PRIMARY STORM ROOF DRAINAGE CONSISTS OF INTERNAL DRAINS AND EMERGENCY DRAINS. THE PRIMARY DRAINS CONNECT UNDERGROUND TO THE SITE STORM DRAINAGE SYSTEM. CERTAIN SMALLER SECTIONS OF ROOF SLOPES TO EXTERIOR WALLS WITH DOWNSPOUTS THAT CONNECT UNDERGROUND TO THE SITE STORM DRAINAGE SYSTEM. EMERGENCY OVERFLOW SCUPPERS ARE PROVIDED AT THESE LOCATIONS. SEE CIVIL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

PER CITY OF RIVIERA BEACH STANDARD; ALL BATHROOMS AND RESTROOMS HAVE BEEN DESIGNED AS SINGLE PRIVATE-USE FACILITIES.

THE BUILDING IS FULLY SPRINKLERED.

USE GROUP: MIXED OCCUPANCIES (SEPARATED USES PER SECTION 302.3.2)

GROUP A "ASSEMBLY"
GROUP B "BUSINESS" - CIVIC ADMINISTRATION AND LABORATORIES
GROUP I3 "INSTITUTIONAL" - HOLDING AREA AND SALLY PORT
GROUP S2 "LOW-HAZARD STORAGE"

APPLICABLE CODES:

8TH EDITION (2023) FLORIDA BUILDING CODE (FBC) - BUILDING
8TH EDITION (2023) FBC - TEST PROTOCOLS FOR HIGH-VELOCITY HURRICANE ZONES
8TH EDITION (2023) FBC - ACCESSIBILITY
8TH EDITION (2023) FBC - MECHANICAL
8TH EDITION (2023) FBC - PLUMBING
8TH EDITION (2023) FBC - ENERGY CONSERVATION
8TH EDITION (2023) FLORIDA FIRE PREVENTION CODE (NFPA 1 AND NFPA 101)
2023 NFPA 70 NATIONAL ELECTRIC CODE
2025 NFPA 72 NATIONAL FIRE ALARM
2025 NFPA 13 STANDARD FOR INSTALLATION OF SPRINKLER SYSTEMS
2024 NFPA 14 STANDARD FOR INSTALLATION OF STANDPIPE AND HOSE SYSTEM

BUILDING SQUARE FOOTAGE: (Under Roof GSF)

LEVEL	AREA / SQUARE FOOTAGE
GROUND FLOOR	28,020 GSF
SECOND FLOOR	20,890 GSF
TOTAL:	48,910 GSF
GENERATOR BLDG (ANCILLARY)	1,360 GSF

BUILDING SQUARE FOOTAGE: (Under AC Square Footage)

LEVEL	AREA / SQUARE FOOTAGE
GROUND FLOOR	25,110 SF
SECOND FLOOR	20,890 SF
TOTAL:	46,000 SF

BUILDING TYPE OF CONSTRUCTION:

TYPE 2B PER TABLE 601 :

BUILDING ELEMENT	FIRE RATING
STRUCTURAL FRAME	0
BEARING WALL EXTERIOR	0
BEARING WALL INTERIOR (TYP. FLOOR)	0
BEARING WALL INTERIOR (TOP FLOOR)	0
NON-BEARING EXTERIOR	0 HR PER TABLE 602
NON-BEARING INTERIOR	0
FLOOR CONSTRUCTION	0
ROOF CONSTRUCTION	0

NOTE:

EXTERIOR BEARING WALLS SHALL NOT HAVE A FIRE RESISTANCE RATING LESS THAN THE REQUIRED RATINGS PER TABLE 602.

BUILDINGS HAVE A SEPARATION GREATER THAN 30'-1" FROM AN ASSUMED COMMON PROPERTY LINE OR STREET FRONTAGE

STRUCTURAL SYSTEM IS CONCRETE AND SELF-PROTECTING.

OCCUPANCY SEPARATIONS (FULLY SPRINKLED BUILDING)

INFORMATION BELOW TAKEN FROM FBC-BUILDING TABLE 508.4				
OCCUPANCY / USE	GROUP A	GROUP B	GROUP S2	GROUP I
GROUP A "ASSEMBLY"	-	1 HR	N	1 HR
GROUP B "BUSINESS"	1 HR	-	1 HR	-
GROUP S2 "LOW HAZ - STORAGE"	N	N	-	1 HR
GROUP I3 "INSTITUTIONAL" (HOLDING AREA)	1 HR	1 HR	1 HR	-

N = NO SEPARATION REQUIREMENT

BUILDING AREAS & HEIGHT / OCCUPANCY GROUPS

INFORMATION BELOW TAKEN FROM FBC-BUILDING TABLE 504.3, 504.4 AND 506.2			
OCCUPANCY / USE	ALLOWED AREA	ALLOWED STORIES	ALLOWED HEIGHT
GROUP A "ASSEMBLY"	28,500 SF	3	75 FEET
GROUP B "BUSINESS"	69,000 SF	4	75 FEET
GROUP S "STORAGE"	52,500 SF	4	75 FEET

NOTES:
ALLOWED AREA IS BASED ON SPRINKLERED BUILDING AND MULTI-STORY.
ACTUAL TWO-STORY BUILDING, FULLY SPRINKLERED AND 49,270 GSF
ACTUAL IS LESS THAN ALLOWED FOR COMPLIANCE

INCIDENTAL USE / SEPARATION / OPENING PROTECTION (FBC / NEC / NFPA):

ROOM / USE	SEPARATION	REQUIRED OPENING PROTECTION	REQUIRED WINDOW ASSEMBLY RATING PROTECTION
ELECTRIC ROOM	2 HR	90 MIN.	N.P.

NOTE:
OPENING PROTECTIVE ONLY APPLIES TO INTERIOR OPENINGS, OPENINGS TO THE EXTERIOR DO NOT REQUIRE PROTECTION.
N.P. - NOT PERMITTED

OCCUPANT LOAD CALCULATIONS PER FBC - BUILDING CH 10 AND FFPC (NFPA 101) CH 7:

GROUP TYPE	FUNCTION OF SPACE	S.F.	SQ. FT. PER OCCUPANT	OCCUPANT LOAD
GROUND FLOOR:				
A3	ASSEMBLY CONCENTRATED BUILDING LOBBY	450	7 NET	65
A3	ASSEMBLY UNCONCENTRATED TRAINING & CONFERENCE ROOMS	1,500	15 NET	100
A3	ASSEMBLY GYM W/ EQUIP.	2,200	50 NET	44
B	BUSINESS AREAS	18,450	150 GROSS	123
S2	STORAGE, FLEX AND MECHANICAL SPACES	3,260	300 GROSS	11
S2	STORAGE - SALLYPORT	2,160	200 GROSS	11
I3	HOLDING AREA	1,840	100 GROSS	19
	GROUND FLOOR TOTAL	28,020	-	373
SECOND FLOOR:				
B	BUSINESS AREAS	18,973	150 GROSS	126
S2	STORAGE, IT DATA ROOM, MECHANICAL ROOM	1,700	300 GROSS	6
	SECOND FLOOR TOTAL	20,890	-	132
	BUILDING TOTAL	48,910	-	505

TRAVEL DISTANCES AND DEAD ENDS (ALLOWED) PER FBC - BUILDING chapter 10 AND FFPC (NFPA 101):

EXIT ACCESS TRAVEL DISTANCE - A (FFPC - CHP 28 & FBC CHP 10)	250 FT
COMMON PATH OF TRAVEL - A (FFPC - CHP 28 & FBC CHP 10)	75 FT
DEAD END - A (FFPC - CHP 28 & FBC CHP 10)	50 FT
EXIT ACCESS TRAVEL DISTANCE - B (FFPC - CHP 28 & FBC CHP 10)	300 FT
COMMON PATH OF TRAVEL - B (FFPC - CHP 28 & FBC CHP 10)	75 FT
DEAD END - B (FFPC - CHP 28 & FBC CHP 10)	50 FT
EXIT ACCESS TRAVEL DISTANCE - S1 (FFPC - CHP 42 & FBC CHP 10)	250 FT
COMMON PATH OF TRAVEL - S1 (FFPC - CHP 42 & FBC CHP 10)	100 FT
DEAD END - S1 (FFPC - CHP 42 & FBC CHP 10)	20 FT

FIRE RATED ASSEMBLIES / PARTITION NOTES:

FIRE RATED WALL ASSEMBLIES SHALL BE CONSTRUCTED AS SHOWN ON THE PARTITION SHEET AND LISTED UL ASSEMBLIES.

REFER TO THE FLOOR PLAN FOR PARTITION TAGS. REFER TO LIFE SAFETY PLAN FOR COLOR CODED FIRE RATED PARTITIONS.

THRU WALL ASSEMBLIES SHALL BE CONSTRUCTED AS SHOWN ON THE PENETRATION DETAIL SHEET, CURRENT UL LISTED ASSEMBLIES AND PER SECTION 714 OF THE CURRENT FLORIDA BUILDING CODE.

ALL PARTITION HEAD JOINTS, FLOOR JOINTS AND / OR EXPANSION JOINTS AT WALL AND FLOOR ASSEMBLIES SHALL BE CONSTRUCTED PER CURRENT UL LISTED ASSEMBLIES AND PER SECTION 715 OF THE CURRENT FLORIDA BUILDING CODE.

PER 8TH EDITION (2023) FBC - BUILDING 703.7 "MARKING AND IDENTIFICATION"

WHERE THERE IS AN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACE, FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING IN THE CONCEALED SPACE. SUCH IDENTIFICATION SHALL

1. BE LOCATED WITHIN 15 FEET OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FEET MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION

2. INCLUDE LETTERING NOT LESS THAN 3 INCHES (76 MM) IN HEIGHT WITH A MINIMUM 3/8-INCH (9.5 MM) STROKE IN A CONTRASTING COLOR INCORPORATING THE SUGGESTED WORDING, "FIRE AND/OR SMOKE BARRIER—PROTECT ALL OPENINGS, " OR OTHER WORDING.

INTERIOR FINISHES: WALLS AND CEILINGS PER FFPC (NFPA 101)

EXIT ENCLOSURES SHALL HAVE MINIMUM CLASS 'A'

CORRIDORS SHALL HAVE MINIMUM CLASS 'B'

ALL REMAINING SPACES SHALL HAVE MINIMUM CLASS 'B'

FIRE EXTINGUISHER GENERAL NOTES:

PORTABLE FIRE EXTINGUISHERS SHALL BE MULTIPURPOSE DRY-CHEMICAL TYPE; UL LISTED 2A:20:B:C, IN ENAMELED STEEL CONTAINER.

PROVIDE 5-LB NORMAL CAPACITY IN ALL AREAS AND 20-LB NORMAL CAPACITY TYPE-K IN THE KITCHEN.

FIRE EXTINGUISHER SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND PER APPROVED SUBMITTALS / SHOP DRAWINGS.

WHERE APPLICABLE, FIRE EXTINGUISHER CABINETS SHALL BE INSTALLED ACCURATELY WITHOUT WARPING, TRUE TO LINE, PLUMB AND LEVEL AT A MAXIMUM OF 4'-6" HEIGHT TO THE TOP OF THE FIRE EXTINGUISHER CABINET AND / OR FIRE EXTINGUISHER BRACKET WHEN SURFACE MOUNTED.

ALL FIRE EXTINGUISHER CABINETS SHALL BE SEMI-RECESSED WITH 1 1/2" MAXIMUM PROJECTION.

MAXIMUM TRAVEL DISTANCE TO A FIRE EXTINGUISHER WITHIN THE OFFICE/LIVING AREA IS 75'-0"

MAXIMUM TRAVEL DISTANCE TO A FIRE EXTINGUISHER IN ALL OTHER AREAS IS 50'-0"

PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED TO MEET NFPA 10 REQUIREMENTS.

GEOTECHNICAL SOILS REPORT / CERTIFICATION:

CONTRACTOR TO SUBMIT 'LOAD BEARING CERTIFICATION LETTER' FROM THE GEOTECHNICAL ENGINEER AFTER SOIL IMPROVEMENTS ARE COMPLETED WITH LOAD TEST ALONG WITH INSPECTIONS BY THE GEOTECHNICAL ENGINEER.

GENERAL NOTE "CONSTRUCTION SAFE GUARDS":

THE GENERAL CONTRACTOR AND ALL TRADE CONTRACTORS SHALL TAKE ALL APPROPRIATE MEASURES TO PROPERLY SAFEGUARD THE SITE THROUGHOUT CONSTRUCTION. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO COMPLIANCE WITH CHAPTER 33 OF THE CURRENT FBC - BUILDING CODE, CURRENT FLORIDA FIRE PREVENTION CODE (NFPA 1 CHAPTER 16), OSHA, AND RELATED GUIDELINES.

DEFERRED SUBMITTALS / NOA PRODUCT DATA REQUIRING BUILDING PERMIT REVIEW:

THE FOLLOWING DEFERRED DELEGATED ENGINEERED SUBMITTALS SHALL BE SUBMITTED TO THE CITY PRIOR TO INSTALLATION AND SCHEDULED FIELD INSPECTIONS. THE SUBMITTALS SHALL INCLUDE THE RESPECTIVE DESIGNER OF RECORD SUBMITTAL REVIEW STAMP NOTING WITHOUT EXCEPTION AND WITH NO OUTSTANDING DESIGNER COMMENTS THAT REQUIRE CORRECTIONS. FINAL COMMENTS FROM THE RESPECTIVE DESIGNER OF RECORD CAN INCLUDE COORDINATION:

BDA SHOP DRAWINGS
FIRE ALARM SHOP DRAWINGS
FIRE SPRINKLER SHOP DRAWINGS
LIGHTNING PROTECTION SHOP DRAWINGS
PRE-ENGINEERED ALUMINUM CANOPIES
METAL STAIRS AND RAILINGS

THE FOLLOWING DEFERRED ENGINEERED SUBMITTALS SHALL BE SUBMITTED TO THE CITY PRIOR TO INSTALLATION AND SCHEDULED FIELD INSPECTIONS. THE SUBMITTALS SHALL INCLUDE THE RESPECTIVE DESIGNER OF RECORD SUBMITTAL REVIEW STAMP NOTING WITHOUT EXCEPTION AND WITH NO OUTSTANDING DESIGNER COMMENTS THAT REQUIRE CORRECTIONS. FINAL COMMENTS FROM THE RESPECTIVE DESIGNER OF RECORD CAN INCLUDE COORDINATION:

TILT PANEL SHOP DRAWINGS
STEEL BEAMS AND CONNECTION SHOP DRAWINGS
STEEL JOIST SHOP DRAWINGS
EXTERIOR BUILDING SIGNAGE

THE FOLLOWING DEFERRED BUILDING CLADDING PRODUCT APPROVAL COMPONENTS SHALL BE SUBMITTED TO THE CITY PRIOR TO INSTALLATION AND SCHEDULED INSPECTIONS. THE SUBMITTALS SHALL INCLUDE THE RESPECTIVE DESIGNER OF RECORD SUBMITTAL REVIEW STAMP NOTING WITHOUT EXCEPTION. THE FLORIDA PRODUCT APPROVAL LETTER AND/OR MIAMI-DADE NOA SHALL BE CURRENT WITH AN EXPIRATION DATE THAT EXCEEDS THE PROJECTED DATE FOR BUILDING FINAL.

EXTERIOR HM DOORS AND HARDWARE
ALUMINUM WINDOWS AND STOREFRONT SYSTEMS
ALUMINUM ENTRY SYSTEMS AND HARDWARE
ROOFING AND ROOF HATCH
ROOF MECHANICAL STANDS AND/OR CURBS
OVERHEAD COILING DOORS

PLUMBING FIXTURE CALCULATIONS PER CHAPTER 4 OF THE 8TH EDITION (2023) FBC - PLUMBING CODE:

NOTE: OCCUPANT LOADS FOR THE PLUMBING CALCULATIONS ARE BASED UPON THE BUILDING OCCUPANT LOADS CALCULATIONS ABOVE PER CHAPTER 10 OF THE FBC; REFERENCE THE COMMENTS FOR ADDITIONAL INFORMATION.
CITY OF RIVIERA BEACH PROGRAM REQUIREMENT; ALL RESTROOMS AND BATHROOMS TO BE DESIGNED AS SINGLE-USE / PRIVATE USER. ADA DESIGNATED ROOMS ARE DISPERSED THROUGHOUT BASED ON LOCATIONS AND GROUPINGS.

CLASSIFICATION PER TABLE 403.1 OF THE FBC - PLUMBING	OCCUPANCY / DESCRIPTION	OCCUPANT LOAD (CODE CALC.)	WATER CLOSETS SINGLE-USE		LAVATORIES SINGLE-USER		SHOWER		SERVICE SINKS		DRINKING FOUNTAINS (see note below)		ADA COMMENTARY SEE FLOOR PLAN GROUPINGS	PLUMBING FIXTURE NOTES / ADDITIONAL MISCELLANIOUS FIXTURES PROVIDED
		TOTAL	REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED		
GROUND FLOOR														
ASSEMBLY	GYM, TRAINING, BRIEFING, LOBBY	209	1 PER 125 OCC = 2 wc REQ'D	11	1 PER 125 OCC = 2 lav REQ'D	11	N/A	8	1	1	1 per 500 = 1 df REQ'D	2 Hi-Low w/ BOTTLE FILLERS	1 ADA Restroom at public lobby and 1 ADA Restroom at training rooms 2 ADA Bathrooms at gym / locker room 4 Total ADA rooms provided / 7 Total non-ADA rooms provided	ADDITIONAL FIXTURES PROVIDED / NOT REQUIRED BY FBC PLUMBING FIXTURE TABLE: 1 Sink at the ground floor breakroom
BUSINESS	RECORDS, STAFF OFFICES, CRIME SCENE LAB, LOCKERS, EVIDENCE PROCESSING, INTERVIEW ROOMS	123	1 PER 25 OCC = 5 wc REQ'D	4	1 PER 125 OCC = 5 lav REQ'D	4	N/A	0	1	1	1 per 100 = 1 df REQ'D	1 Hi-Low w/ BOTTLE FILLERS	2 ADA Restrooms at staff spaces 2 Total ADA rooms provided / 2 Total non-ADA rooms provided	ADDITIONAL FIXTURES PROVIDED / NOT REQUIRED BY FBC PLUMBING FIXTURE TABLE: 1 Hand Sink at Evidence Drop and 1 Hand Sink at CS Lab 1 Emergency eye-wash and shower at CS Lab
INSTITUTIONAL (HOLDING AREA)	STAFF WORK AREA	11	1 PER 25 OCC = 1 wc REQ'D	1	1 PER 125 OCC = 1 lav REQ'D	1	N/A	0	1	1	N/A	0	Fixtures provided are ADA and Detention Style / Located within controlled area - see floor plan	Holding Cell uses Combination Detention Style Water Closet and Sink with privacy wall.
	HOLDING	8 Single Use Cells	1 PER CELL = 8 wc REQ'D	8	1 PER CELL = 8 lav REQ'D	8	N/A	0					Short duration less than 4 hours	ADDITIONAL FIXTURES PROVIDED / NOT REQUIRED BY FBC PLUMBING FIXTURE TABLE: 1 Hand Sink with Emergency eye-wash at Staff Control Room
STORAGE	QUARTERMASTER, ARMORY, EVIDENCE STORAGE, STORAGE ROOMS, I.T, MECHANICAL	11	1 PER 100 OCC = 1 wc REQ'D	*Included in the above calculations & staff has access	1 PER 100 OCC = 1 lav REQ'D	*Included in the above calculations & staff has access	N/A	0	1	*Included in the above calculations, accessible from Holding Area	1 per 1,000 = 1 df REQ'D	*Included in the above calculations & staff has access		
	VEHICLE SALLYPORT (Controlled Transistion to Holding Area for pick up or drop off)	11	N/A	N/A	N/A	N/A	N/A	N/A						ADDITIONAL FIXTURES PROVIDED / NOT REQUIRED BY FBC PLUMBING FIXTURE TABLE: 1 Hand Sink within Vehcile Sallyport 1 Emergency eye-wash and shower within Vehcile Sallyport
SECOND FLOOR														
BUSINESS	COMMUNICATIONS, STAFF OFFICES, DETECTIVE BUREAU, INTERNAL AFFAIRS, INTERVIEW ROOMS, RTC, SKIFF	127	1 PER 25 OCC = 5 wc REQ'D	7	1 PER 25 OCC = 5 lav REQ'D	7	N/A	3	1	1	1 per 100 = 1 df REQ'D	2 Hi-Low w/ BOTTLE FILLERS	1 ADA Restroom within the Excutive Suite 1 ADA Restroom within the Staff Area 1 ADA Bathroom within the Communications Suite (24-7 Operation) 3 Total ADA rooms provided / 4 Total non-ADA rooms provided	ADDITIONAL FIXTURES PROVIDED / NOT REQUIRED BY FBC PLUMBING FIXTURE TABLE: 1 Sink at the staff breakroom 1 Sink at the single use room for Mothers 1 Sink at breakroom within the Communications Suite (24-7 Operation) 1 Sink at breakroom within Executive Administration Suite
STORAGE	I.T DATA ROOM, MECHANICAL ROOMS, MAIN ELECTRICAL ROOM, PERSONNEL / IA FILES	6	1 PER 100 OCC = 1 wc REQ'D	*Included in the above calculations & staff has access	1 PER 100 OCC = 1 lav REQ'D	*Included in the above calculations & staff has access	N/A	0	1	*Included in the above calculations & staff has access	1 per 1,000 = 1 df REQ'D	*Included in the above calculations & staff has access		
TOTAL OCCUPANCY		505												
TOTAL FIXTURES COUNT			23 wc	31 wc	23 lav	31 wc	N/A	11	6	4	4	5		
FIXTURE COUNT COMMENTARY		ACTUAL RBPD STAFF APPROXIMATELY 250 WHICH IS LESS THAN CALCULATED BUILDING LOAD	SINGLE USE ROOMS PROVIDED PER RBPD PROGRAM REQUIREMENTS; SEE FLOOR PLANS FOR LOCATIONS. SELECT ROOMS MAYBE PART OF A SPECIFIC SUITE BASED UPON RBPD OPERATIONS AND/OR STORM EVENTS. BASED ON OPERATIONS SOME DEPARTMENT STAFF IS 40 HOURS AND SOME STAFF IS 24-7 IN OFFICE OR IN FIELD.				SHOWERS PROVIDED ARE BASED ON RBPD PROGRAM REQUIREMENTS		SEE FLOOR PLAN FOR LOCATIONS; JANITOR CLOSETS LOCATED BASED UPON NEED OR SECURED ACCESS PER RBPD PROGRAM REQUIREMENTS					

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CONSULTANT

PROJECT STATUS

90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER

1007657.00

SHEET TITLE

LIFE SAFETY CODE ANALYSIS - ADMIN BLDG

SHEET NUMBER

LS0.10

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
DATE STAMP: 10/24/2025 1:30:33 PM

LIFE SAFETY NOTES

1. DO NOT SCALE DRAWINGS; CONTACT ARCHITECT FOR CLARIFICATIONS OR MISSING DIMENSIONS RELATED TO LIFE SAFETY REVIEW.
2. FURNITURE AND EQUIPMENT SHOWN ON THE LIFE SAFETY PLAN IS FOR PLANNING AND/OR COORDINATION PURPOSES ONLY.
3. REFER TO SHEETS A0.10 AND A0.11 FOR GENERAL PARTITION NOTES, PARTITION TYPES, AND FIRE RATED ASSEMBLIES / UL ASSEMBLY NUMBERS.
4. REFER TO SHEET A0.12 FOR PENETRATION NOTES, PENETRATION DETAILS AND UL ASSEMBLY NUMBERS. ALSO REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. INTERIOR DOORS AND WINDOWS SHOWN IN FIRE RATED ASSEMBLIES SHALL HAVE CORRESPONDING FIRE RATING PER THE OPENING PROTECTION REQUIREMENTS UNDER THE CODE ANALYSIS. REFER TO THE DOOR AND WINDOW SCHEDULES FOR ADDITIONAL INFORMATION.
6. ANY SIZES OR DIMENSIONS INDICATED ON THIS SHEET ARE FOR LIFE SAFETY AND CODE VERIFICATION. THEY ARE NOT INTENDED FOR CONSTRUCTION PURPOSES.
7. LIFE SAFETY DEVICES ARE SHOWN FOR COORDINATION. ALL REQUIRED DEVICES MAY NOT BE SHOWN. REFER TO MECHANICAL, ELECTRICAL AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION, SUCH AS, BUT NOT LIMITED TO: FIRE DAMPERS, SPRINKLERS, TAMPER SWITCHES, VALVES, FIRE ALARM DEVICES, ETC.
8. FIRE EXTINGUISHERS SHALL BE INSTALLED PER NFPA 10 AND FBC-BUILDING CHAPTER 9
9. ALL PENETRATIONS AT RATED (AND/OR SMOKE RESISTANT) WALLS AND ELEVATED FLOORS SHALL BE PROTECTED PER FBC-BUILDING SECTION 714.
10. ALL JOINTS AT RATED (AND/OR SMOKE RESISTANT) WALLS AND ELEVATED FLOORS SHALL BE PROTECTED PER FBC-BUILDING SECTION 714.

LIFE SAFETY LEGEND

REFER TO SHEET G0.02 FOR GRAPHIC STANDARDS

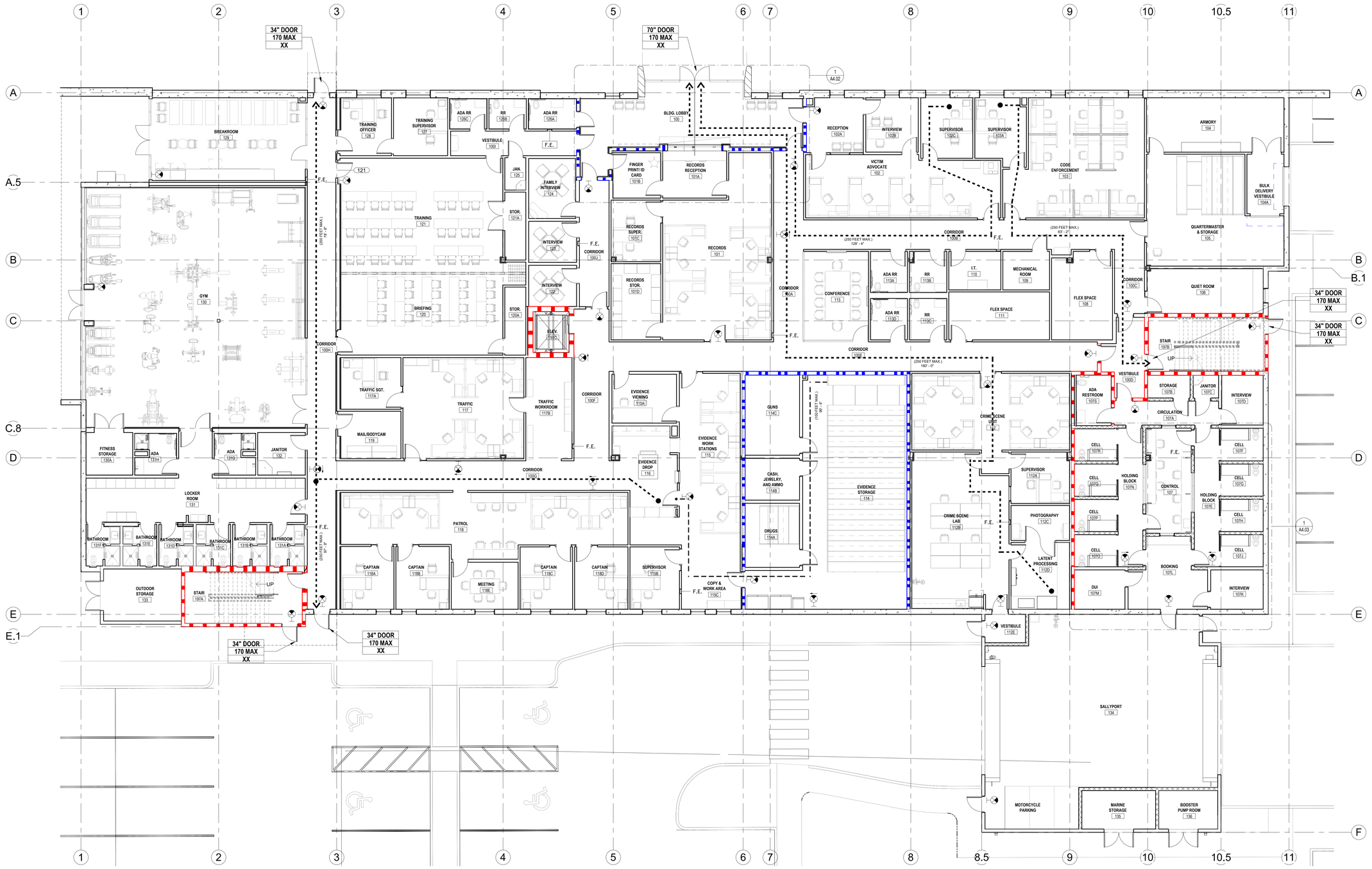
- 1 HOUR UL RATED ASSEMBLY (CONTINUOUS)
- 2 HOUR UL RATED ASSEMBLY (CONTINUOUS)
- EXIT TRAVEL DISTANCE
- COMMON PATH OF TRAVEL

F.E. - FIRE EXTINGUISHER
CEILING MOUNTED EXIT SIGN
WALL MOUNTED EXIT SIGN
SD SMOKE DETECTOR
HD HEAT DETECTOR
EM DUAL HEAD EMERGENCY LIGHT, SPACED AT 24' MAX.
KNOX BOX

SYMBOLS:

CLR
MAX.
PRVD.
CLR - CLEAR DOOR AND/OR STAIR EGRESS WIDTH PROVIDED
MAX ALLOWED OCCUPANTS (FACTOR X EGRESS WIDTH)
ACTUAL OCCUPANTS

F.E.C F.E.C. - SEMI-RECESSED FIRE EXTINGUISHER



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0'-0" 4'-0" 8'-0" 16'-0"
GRAPHIC SCALE

FIRST FLOOR LIFE SAFETY PLAN 1/8" = 1'-0" (1)

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CONSULTANT

PROJECT STATUS
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10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
GROUND FLOOR LIFE SAFETY PLAN

SHEET NUMBER
LS2.10

LIFE SAFETY NOTES

1. DO NOT SCALE DRAWINGS; CONTACT ARCHITECT FOR CLARIFICATIONS OR MISSING DIMENSIONS RELATED TO LIFE SAFETY REVIEW.
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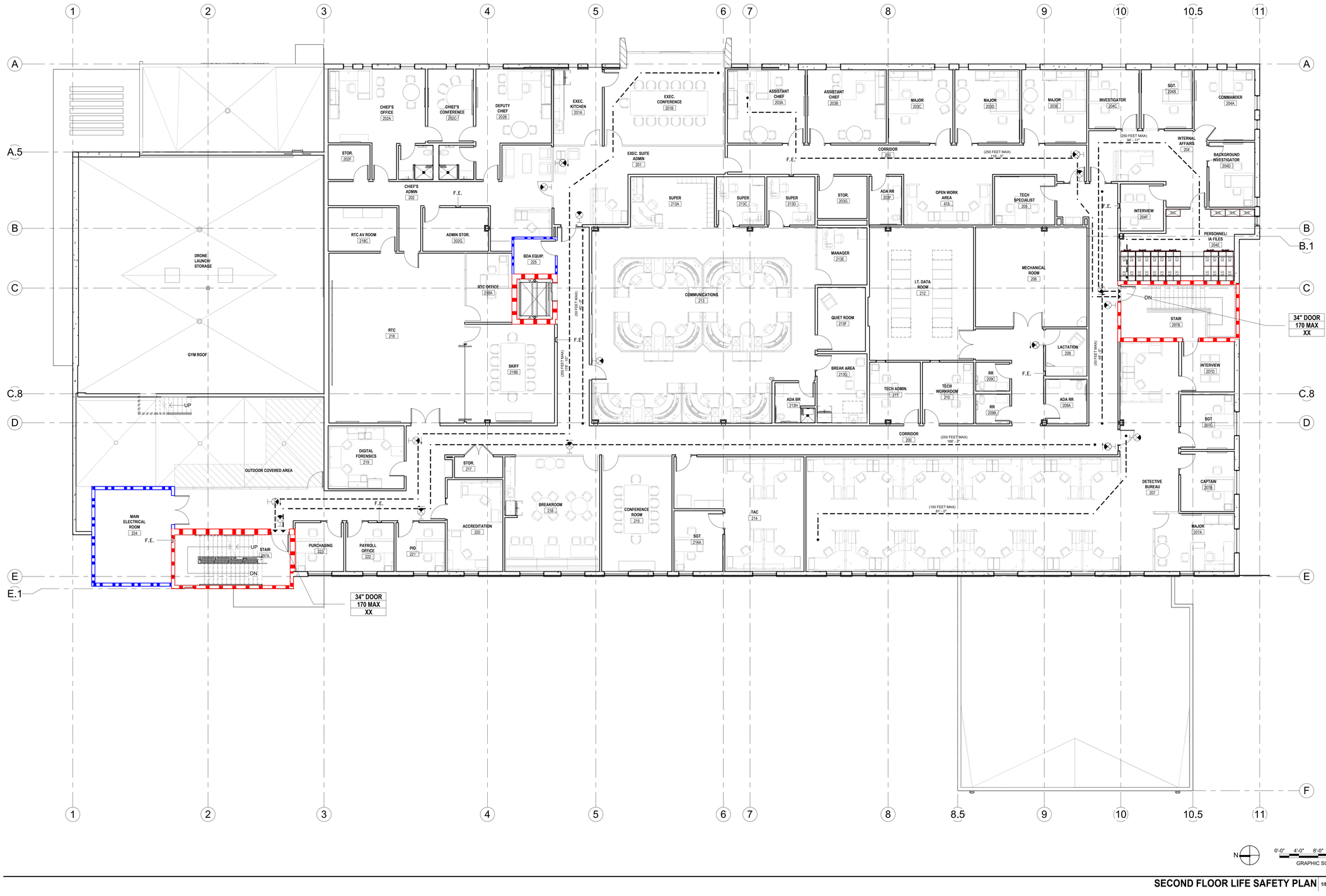
LIFE SAFETY LEGEND

REFER TO SHEET G0.02 FOR GRAPHIC STANDARDS

- 1 HOUR UL RATED ASSEMBLY (CONTINUOUS)
- 2 HOUR UL RATED ASSEMBLY (CONTINUOUS)
- EXIT TRAVEL DISTANCE
- COMMON PATH OF TRAVEL

SYMBOLS:

- CLR. / MAX. / PRVD. — CLR. - CLEAR DOOR AND/OR STAIR EGRESS WIDTH PROVIDED
- MAX ALLOWED OCCUPANTS (FACTOR X EGRESS WIDTH)
- ACTUAL OCCUPANTS
- F.E.C — F.E.C. - SEMI-RECESSED FIRE EXTINGUISHER
- F.E. - FIRE EXTINGUISHER
- CEILING MOUNTED EXIT SIGN
- WALL MOUNTED EXIT SIGN
- SD — SMOKE DETECTOR
- HD — HEAT DETECTOR
- EM — DUAL HEAD EMERGENCY LIGHT, SPACED AT 24' MAX.
- KNOX BOX



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0'-0" 4'-0" 8'-0" 16'-0"

GRAPHIC SCALE

SECOND FLOOR LIFE SAFETY PLAN 1/8" = 1'-0" (1)

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RIVIERA BEACH, FL
33404

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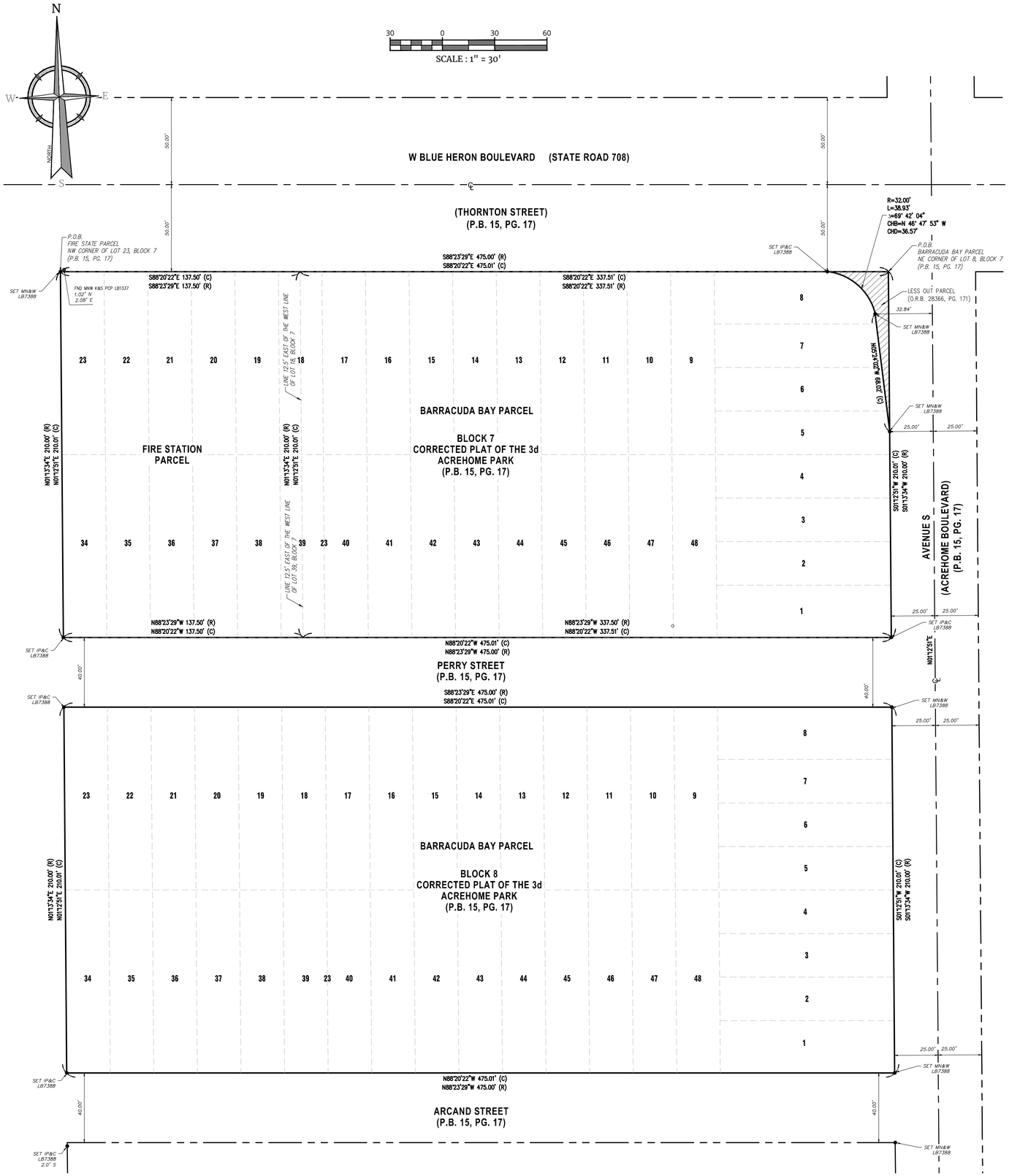
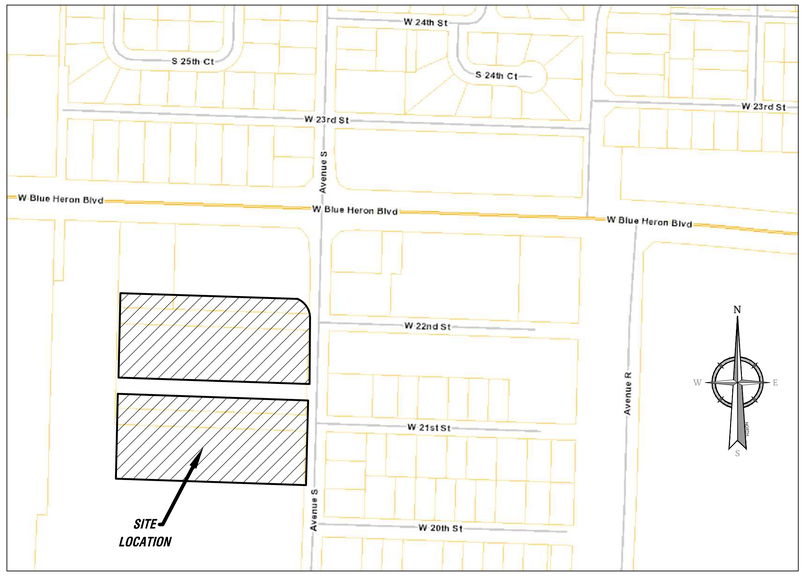
SHEET TITLE

SECOND FLOOR LIFE SAFETY PLAN

SHEET NUMBER

LS2.20





LOCATION MAP

NOT TO SCALE

ABBREVIATIONS

R	=	*RECORDED*
C	=	*CALCULATED*
R	=	*RECORD*
M	=	*MEASURED*
P	=	*PLAT*
ID	=	*IDENTIFICATION*
P.O.B.	=	*POINT OF BEGINNING*
P.B.	=	*PLAT BOOK*
PG.	=	*PAGE*
℄	=	*CENTERLINE*

LEGAL DESCRIPTION:

BARRACUDA BAY PARCEL

LOTS 1 TO 18, BLOCK 7, INCLUSIVE, LOTS 39 TO 48, BLOCK 7, INCLUSIVE, LESS THE WEST 12.50 FEET OF LOTS 18 AND 39, THE 3RD ACREHOME PARK ADDITION TO KELSEY CITY, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 4, PAGE 76, AS CORRECTED IN PLAT BOOK 15, PAGE 17, OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA. BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;

BEGINNING AT THE NORTHEAST CORNER OF LOT 8, OF SAID BLOCK 7, THENCE ALONG THE EAST LINE OF SAID BLOCK 7 THENCE SOUTH 01°13'34" WEST, A DISTANCE OF 210.00 FEET TO THE SOUTH LINE OF SAID BLOCK 7, THENCE ALONG SAID SOUTH LINE NORTH 88°23'29" WEST, 337.50 FEET TO A LINE BEING 12.50 FEET EAST OF AND PARALLEL TO THE WEST LINE OF LOT 39, OF SAID BLOCK 7, NORTH 01°13'34" EAST 210.00 FEET TO THE NORTH LINE OF SAID BLOCK 7, THENCE ALONG SAID NORTH LINE SOUTH 88°23'29" EAST (BEARING REFERENCE) 337.50 FEET TO THE POINT OF BEGINNING, SAID LANDS LYING AND BEING IN THE CITY OF RIVIERA BEACH, PALM BEACH COUNTY, FLORIDA.

LESS AND EXCEPT THAT PARCEL CONVEYED TO THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION BY DEED RECORDED IN OFFICIAL RECORDS BOOK 28366, PAGE 171, OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA.

TOGETHER WITH:
LOTS 1 THROUGH 23, AND LOTS 34 THROUGH 48, BLOCK 8, OF THE 3RD ACREHOME PARK ADDITION TO KELSEY CITY, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 15, PAGE 17, OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA.

TOGETHER WITH:
FIRE STATION PARCEL

LOTS 19 TO 23, BLOCK 7, INCLUSIVE, LOTS 34 TO 38, BLOCK 7, INCLUSIVE, AND THE WEST 12.50 FEET OF LOTS 18 AND 39, BLOCK 7, THE 3RD ACREHOME PARK ADDITION TO KELSEY CITY, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 4, PAGE 76, AS CORRECTED IN PLAT BOOK 15, PAGE 17, OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA. BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;

BEGINNING AT THE NORTHWEST CORNER OF LOT 23, OF SAID BLOCK 7, THENCE ALONG THE NORTH LINE OF SAID BLOCK 7 THENCE SOUTH 88°23'29" EAST (BEARING REFERENCE), A DISTANCE OF 137.50 FEET TO A LINE BEING 12.50 FEET EAST OF AND PARALLEL TO THE WEST LINE OF LOT 18, BLOCK 7, THENCE SOUTH 01°13'34" WEST, 210.00 FEET TO THE SOUTH LINE OF SAID BLOCK 7, THENCE ALONG SAID SOUTH LINE NORTH 88°23'29" WEST, 137.50 FEET TO THE WEST LINE OF LOT 34, BLOCK 7, THENCE ALONG SAID WEST LINE NORTH 01°13'34" EAST, 210.00 FEET TO THE POINT OF BEGINNING, SAID LANDS LYING AND BEING IN THE CITY OF RIVIERA BEACH, PALM BEACH COUNTY, FLORIDA.

SURVEYOR'S NOTES:

IN CONDUCTING THE BOUNDARY SURVEY FOR THE SUBJECT PROPERTY, NO RECOVERABLE MONUMENTS WERE FOUND AT THE PROPERTY CORNERS. CONSEQUENTLY, THE PROPERTY LINES HAVE BEEN ESTABLISHED BASED ON IDENTIFIABLE TOPOGRAPHIC FEATURES AND OCCUPATION OBSERVED AND MEASURED IN THE FIELD, AND SUBSTANTIATED WITH MONUMENTS RECOVERED ON ADJACENT PROPERTIES, PROVIDING CRITICAL REFERENCE DATA THAT AIDED IN THE CALCULATION OF SAID PROPERTY LINES.

THE CLIENT PROVIDED THE LEGAL DESCRIPTION TO THIS SURVEYOR.

OWNERSHIP IS SUBJECT TO OPINION OF TITLE.

NO ENCROACHMENTS WERE NOTED BY THIS SURVEY, EXCEPT AS SHOWN HEREON.

ANY NOTORIOUS EVIDENCE OF OCCUPATION AND/OR USE OF THE DESCRIBED PARCEL FOR RIGHT-OF-WAY, INGRESS OR EGRESS IS SHOWN ON THIS SURVEY DRAWING. HOWEVER, THIS SURVEY DOES NOT PURPORT TO REFLECT ANY RECORDED INSTRUMENTS OR RIGHT-OF-WAY OTHER THAN SHOWN ON THE RECORDED PLAT OR STATED IN THE LEGAL DESCRIPTION AS IT APPEARS ON THIS DRAWING.

THE OWNERSHIP OF THE FENCES AND/OR WALLS AS SHOWN HEREON WAS NOT DETERMINED.

EXAMINATION OF THE ABSTRACT OF TITLE WILL HAVE TO BE MADE TO DETERMINE RECORDED INSTRUMENTS, IF ANY, AFFECTING THIS PROPERTY.

DIFFERENCES ARE NOTED AS COMPARED TO CALCULATIONS FROM THE RECORD PLAT AND ARE SHOWN AS PLAT, MEASURED, RECORD AND/OR DEED.

BEARINGS AND NORTH ARROW DIRECTION SHOWN HEREON ARE BASED ON THE CENTERLINE OF NE AVENUE S, HAVING A BEARING OF N01°12'51"E, AS SHOWN HEREON.

ALL MEASUREMENTS ARE IN US SURVEY FOOT.

ELEVATIONS ARE REFERRED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). ELEVATIONS SHOWN ARE BASED ON FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) MONUMENTS A2, A NAIL AND BRASS DISK STAMPED "FDOT"; ELEVATION = 14.063 FEET (NAVD88), AND A3, A NAIL AND BRASS DISK STAMPED "FDOT"; ELEVATION = 16.174 FEET (NAVD88), AS REPORTED ON FDOT PROJECT SURVEY CONTROL FOR STATE ROAD 708 (BLUE HERON BLVD.), FINANCIAL PROJECT ID. 435144-1-52-01. A CLOSED 0.25 MILES, MORE OR LESS, LEVEL LOOP TO THE SITE AND BACK WAS COMPLETED, WITH A REPORTED ERROR OF 0.005 FEET.

PROPERTY ADDRESS: 1621 WEST BLUE HERON BOULEVARD, RIVIERA BEACH, FLORIDA 33404

THE TOTAL PROPERTY AREA IS 198,865 SQ. FEET OR 4.565 ACRES MORE OR LESS.

THE NATIONAL FLOOD INSURANCE RATE MAP 12099C0389F FOR FLORIDA COMMUNITY 125142, PANEL NUMBER 0389F, FIRM DATE 10/05/17, PUBLISHED BY THE UNITED STATES DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT, DELINEATES THE HEREIN DESCRIBED LAND TO BE SITUATED WITHIN ZONE "X", WITH NO BASE FLOOD ELEVATION.

THIS SKETCH SHOWN HEREON IN ITS GRAPHIC FORM, IS THE RECORD DEPICTION OF THE SURVEYED LANDS DESCRIBED HEREIN AND WILL IN NO CIRCUMSTANCES BE SUPPLANTED IN AUTHORITY BY ANY OTHER GRAPHIC OR DIGITAL FORMAT OF THIS SURVEY. THIS MAP IS INTENDED TO BE DISPLAYED AT A SCALE OF 1"=30' OR SMALLER. AT THE MAXIMUM INTENDED DISPLAYED SCALE THE SURVEY AND SKETCH'S POSITIONAL ACCURACY VALUE OCCUPIES 1/30" ON THE DISPLAY.

ADDITIONS OR DELETIONS TO SURVEY MAPS AND REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES ARE PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES. THIS DOCUMENT CONSISTS OF 1 SHEET.

THIS SURVEY MAP IS INTENDED TO BE DISPLAYED AT THE GRAPHIC AND STATED SCALES IN ENGLISH UNITS OF MEASUREMENT. ATTENTION IS DIRECTED TO THE FACT THAT SAID SURVEY MAP MAY BE ALTERED IN SCALE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

ACCURACY STATEMENT: SUBURBAN LINEAR 1 FOOT IN 7,500.

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REV	DATE	DRAWN BY	DESCRIPTION

Denis A Denis
FLORIDA PROFESSIONAL SURVEYOR AND MAPPER
LICENSE NUMBER: LS7017
COLLIERS ENGINEERING & DESIGN, INC.
F.L. License #: LB7388

BOUNDARY AND TOPOGRAPHY SURVEY

FOR

CORE CONSTRUCTION

1621 WEST
BLUE HERON BOULEVARD

RIVIERA BEACH
PALM BEACH COUNTY
FLORIDA 33404

Colliers Engineering & Design
MIAMI
7400 Corporate Center Drive
Suite C
Miami, FL 33126
Phone: 305.392.3190
COLLIERS ENGINEERING & DESIGN, INC.

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	02/07/2025	MCH & ED	DD

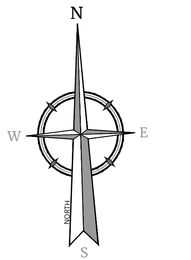
PROJECT NUMBER:	DRAWING NAME:
25001323A	V-TOPO-BNDY

SHEET TITLE:
BOUNDARY SURVEY

SHEET NUMBER:
1 of 2

1323A\Survey\transfer\V-TOPO-BNDY.dwg\V-BNDY SHEET 1 By: ERNESTO.DIOMINGUEZ

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



30 0 30 60

SCALE : 1" = 30'

LEGEND

WPB	WIRE PULL BOX
W	WELL
G	GAS MANHOLE
E	ELECTRIC MANHOLE
T	TELEPHONE MANHOLE
U	UNMARKED MANHOLE
S	SANITARY MANHOLE
D	DRAINAGE MANHOLE
	GREASE TRAP
	POLE MOUNTED LIGHT
	FLOOD LIGHT
	UTILITY POLE
	GUY WIRE
	TRANSFORMER
fdc	FIRE DEPT. CONNECTION
	FIRE HYDRANT
WV	WATER VALVE
GV	GAS VALVE
CO	SANITARY CLEANOUT
UV	UNMARKED VALVE
	CAPPED REBAR/IRON PIPE
WM	WATER METER
	SIGN
	CATCH BASIN
	BACK FLOW PREVENTER
	PEDESTRIAN SIGN
00	STRUCTURE NUMBER
x 29.0	SPOT ELEVATION
	TREE
	PALM
E	BURIED ELECTRIC
E	ELECTRIC LINE
W	WATER MAIN LINE
T	COMMUNICATION LINE
G	GAS LINE

ABBREVIATIONS

BLDG	= BUILDING	CONC.	= CONCRETE
COR	= CORNER	WPB	= WIRE PULL BOX
(R)	= PLAT DIMENSION	CLF	= CHAIN LINK FENCE
BOL	= BOLLARD	SWK	= SIDEWALK
EL.	= ELEVATION	I.P.	= IRON PIPE
(F)	= FIELD MEASURED	I.R.	= IRON ROD
F.F.	= FINISH FLOOR	MN&W	= MAG NAIL & WASHER
U/V	= UNKNOWN VALVE	CLR.	= CLEAR
N/I	= NOT INCLUDED	ENC.	= ENCROACHED
R/W	= RIGHT OF WAY	(A)	= CITY ATLAS 100
CL	= CENTERLINE	C.O.M.	= CITY OF MIAMI
TYP.	= TYPICAL	TYP.	= TYPICAL
O.R.B.	= OFFICIAL RECORDS BOOK	(C)	= CALCULATED
		OVH	= OVERHEAD

STRUCTURE TABLE DATUM-NAVD-88															
NUMBER	DESCRIPTION	RIM ELEV	NORTH INVERT			SOUTH INVERT			EAST INVERT			WEST INVERT			BOTTOM
			DIRECTION	ELEV	SIZE AND MATERIAL	DIRECTION	ELEV	SIZE AND MATERIAL	DIRECTION	ELEV	SIZE AND MATERIAL	DIRECTION	ELEV	SIZE AND MATERIAL	ELEV
1	DRAINAGE MH	14.00	-	8.70	15" CONC.	-	8.68	15" CONC.	-	8.50	24" CONC.	-	8.35	24" CONC.	8.30
2	DRAINAGE MH	14.30	NE	9.45	18" CONC.	-	9.30	18" CONC.	-	-	-	-	8.85	24" CONC.	8.80
3	CATCH BASIN	12.44	-	9.18	15" CONC.	-	-	-	-	-	-	-	-	-	9.09
4	CATCH BASIN	13.59	UNABLE TO OPEN												
5	SANITARY MH	15.45	NW	10.65	8" CLAY	-	10.52	10" CLAY	NE	10.55	8" CLAY	-	-	-	10.49
6	SANITARY MH	15.77	-	10.07	10" CLAY	-	-	-	-	10.02	10" CLAY	-	10.32	10" CLAY	9.97
7	CATCH BASIN	15.70	-	-	-	-	10.15	18" CPP	-	-	-	-	10.27	12" CPP	9.65
8	CATCH BASIN	15.68	NW	10.36	12" PVC	-	10.18	18" CPP	-	-	-	NW	10.33	6" PVC	9.48
9	CATCH BASIN	15.34	-	10.09	18" CPP	-	9.89	24" CPP	-	-	-	-	-	-	9.29
10	CATCH BASIN	15.29	-	9.89	18" CPP	-	9.89	24" CPP	-	-	-	-	-	-	9.29
11	CATCH BASIN	15.32	-	9.77	24" CPP	-	9.62	24" CPP	-	-	-	-	-	-	9.42
12	CATCH BASIN	15.34	-	9.69	24" CPP	-	9.59	24" CPP	-	-	-	-	-	-	9.04
13	CATCH BASIN	15.32	-	9.32	24" CPP	-	-	-	-	8.67	24" CPP	-	-	-	7.02
14	CATCH BASIN	15.32	-	9.17	24" CPP	-	-	-	-	-	-	-	9.32	24" CPP	8.77
15	CATCH BASIN	14.56	-	-	-	-	-	-	-	9.91	15" CONC.	SW	9.86	15" CONC.	8.71
16	CATCH BASIN	14.05	-	-	-	-	-	-	-	9.90	15" CONC.	-	9.85	15" CONC.	9.10
17	CATCH BASIN	13.39	-	-	-	-	-	-	-	9.79	15" CONC.	-	9.74	15" CONC.	8.79
18	CATCH BASIN	14.88	-	-	-	-	-	-	-	-		-	9.73	15" CONC.	7.93

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BOUNDARY AND TOPOGRAPHY SURVEY

FOR

CORE CONSTRUCTION

1621 WEST BLUE HERON BOULEVARD

RIVIERA BEACH
PALM BEACH COUNTY
FLORIDA 33404

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MIAMI
7400 Corporate Center Drive
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Miami, FL 33126
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SCALE:	DATE:	DRAWN BY:	CHECKED BY:
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25001323A	V-TOPO-BNDY

SHEET TITLE:
BOUNDARY SURVEY

SHEET NUMBER:
1 of 2

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

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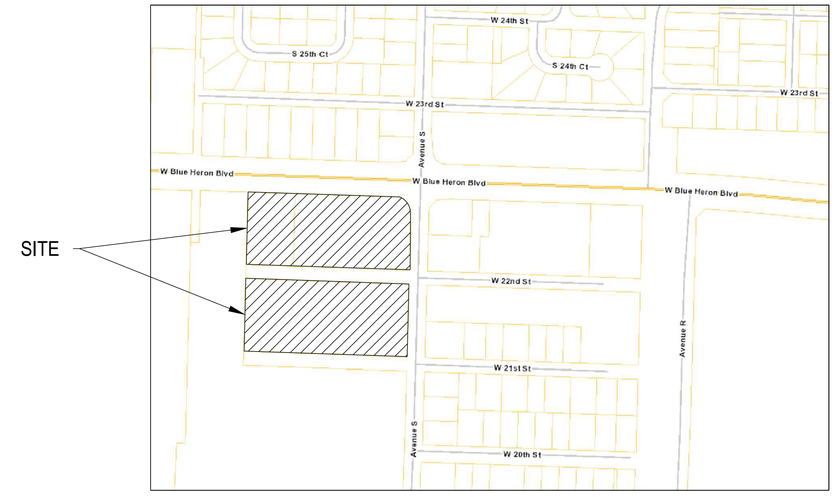
CIVIL ENGINEERING PLANS

FOR

RIVIERA BEACH POLICE DEPARTMENT

CITY OF RIVIERA BEACH
PALM BEACH COUNTY, FLORIDA
SECTION 29, TOWNSHIP 42, RANGE 43



SITE MAP - N.T.S.

LEGAL DESCRIPTION
BARRACUDA BAY PARCEL

LOTS 1 TO 18, BLOCK 7, INCLUSIVE, LOTS 39 TO 48, BLOCK 7, INCLUSIVE, LESS THE WEST 12.50 FEET OF LOTS 18 AND 39, THE 3RD ACREHOME PARK ADDITION TO KELSEY CITY, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 4, PAGE 76, AS CORRECTED IN PLAT BOOK 15, PAGE 17, OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA. BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;

BEGINNING AT THE NORTHEAST CORNER OF LOT 8, OF SAID BLOCK 7, THENCE ALONG THE EAST LINE OF SAID BLOCK 7 SOUTH 01°13'34" WEST, A DISTANCE OF 210.00 FEET TO THE SOUTH LINE OF SAID BLOCK 7, THENCE ALONG SAID SOUTH LINE NORTH 88°23'29" WEST, 337.50 FEET TO A LINE BEING 12.50 FEET EAST OF AND PARALLEL TO THE WEST LINE OF LOT 39, OF SAID BLOCK 7, NORTH 01°13'34" EAST 210.00 FEET TO THE NORTH LINE OF SAID BLOCK 7, THENCE ALONG SAID NORTH LINE SOUTH 88°23'29" EAST (BEARING REFERENCE) 337.50 FEET TO THE POINT OF BEGINNING, SAID LANDS LYING AND BEING IN THE CITY OF RIVIERA BEACH, PALM BEACH COUNTY, FLORIDA AND CONTAINING 70,877 SQUARE FEET MORE OR LESS.

LESS AND EXCEPT THAT PARCEL CONVEYED TO THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION BY DEED RECORDED IN OFFICIAL RECORDS BOOK 28366, PAGE 171, OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA.

TOGETHER WITH:
LOTS 1 THROUGH 23, AND LOTS 34 THROUGH 48, BLOCK 8, OF THE 3RD ACREHOME PARK ADDITION TO KELSEY CITY, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 15, PAGE 17, OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA.

TOGETHER WITH:
FIRE STATION PARCEL

LOTS 19 TO 23, BLOCK 7, INCLUSIVE, LOTS 34 TO 38, BLOCK 7, INCLUSIVE, AND THE WEST 12.50 FEET OF LOTS 18 AND 39, BLOCK 7, THE 3RD ACREHOME PARK ADDITION TO KELSEY CITY, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 4, PAGE 76, AS CORRECTED IN PLAT BOOK 15, PAGE 17, OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA. BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;

BEGINNING AT THE NORTHWEST CORNER OF LOT 23, OF SAID BLOCK 7, THENCE ALONG THE NORTH LINE OF SAID BLOCK 7 SOUTH 88°23'29" EAST (BEARING REFERENCE), A DISTANCE OF 137.50 FEET TO A LINE BEING 12.50 FEET EAST OF AND PARALLEL TO THE WEST LINE OF LOT 18, BLOCK 7, THENCE SOUTH 01°13'34" WEST, 210.00 FEET TO THE SOUTH LINE OF SAID BLOCK 7, THENCE ALONG SAID SOUTH LINE NORTH 88°23'29" WEST, 137.50 FEET TO THE WEST LINE OF LOT 34, BLOCK 7, THENCE ALONG SAID WEST LINE NORTH 01°13'34" EAST, 210.00 FEET TO THE POINT OF BEGINNING, SAID LANDS LYING AND BEING IN THE CITY OF RIVIERA BEACH, PALM BEACH COUNTY, FLORIDA AND CONTAINING 28,876 SQUARE FEET MORE OR LESS

CONTAINING 5.416 ACRES, MORE OR LESS.

SHEET INDEX

C-0	CIVIL COVER SHEET
C-1	CIVIL GENERAL NOTES AND SPECIFICATIONS
C-2	PAVING AND GRADING PLAN
C-3	DRAINAGE PLAN
C-3.1	PAVING GRADING AND DRAINAGE DETAILS
C-3.2	PAVING AND GRADING SECTIONS
C-4	WATER AND SANITARY SEWER PLAN
C-4.1 & C-4.2	WATER AND SANITARY SEWER DETAILS
C-5	PAVEMENT MARKING AND SIGNAGE PLAN
C-6	POLLUTION AND EROSION CONTROL PLAN
C-7	SITE DEMOLITION PLAN

CLIENT

CITY OF RIVIERA BEACH
1481 West 15th Street
Riviera Beach, FL 33404

ARCHITECT

PGAL, Inc.
791 Park of Commerce Blvd.
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Boca Raton, FL 33487
T 561 988 4002
www.pgal.com

CONSULTANT

Botek Thurlow Engineering, Inc.
3409 NW 9th Avenue, Suite 102, Ft. Lauderdale, FL 33309
www.botekthurlow-eng.com p: 954-568-6688 f: 954-568-0757

SEAL

DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
	10/14/2025	90% Construction Documents/Permit Set

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S
RIVIERA BEACH, FL 33404

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

PGAL PROJECT NUMBER
1007657.00

BTE PROJECT NUMBER
24-0504

BTE ISSUE DATE
10-14-2025

SHEET TITLE
CIVIL COVER SHEET

SHEET NUMBER
C-0

GENERAL NOTE

1. THIS CONSTRUCTION PROJECT MAY OR MAY NOT INCLUDE ALL ITEMS COVERED BY THESE NOTES AND SPECIFICATIONS, AT PAVING, GRADING, DRAINAGE LINES, WATER LINES, OR SANITARY SEWER LINES AND APPURTENANCES. THESE GENERAL NOTES AND SPECIFICATIONS ON THIS SHEET REFER TO PAVING, GRADING, DRAINAGE, WATER, AND SANITARY SEWER, AND ARE INTENDED FOR THIS PROJECTS SCOPE OF WORK AND FOR REFERENCE PURPOSES FOR OTHER WORK ITEMS THAT MAY BE REQUIRED DUE TO UNFORESEEN EXISTING CONDITIONS OR REQUIRED REMEDIAL WORK.

I. SPECIFIC SITE NOTES

A. "CITY" IN THESE NOTES REFERS TO THE CITY OF RIVIERA BEACH
B. "COUNTY" IN THESE NOTES REFERS TO PALM BEACH COUNTY
C. "STATE" IN THESE NOTES REFERS TO THE STATE OF FLORIDA
D. ALL PLANS ARE BASED ON THE SURVEY BY COLLIERS ENGINEERING & DESIGN, INC.
E. DATUM: ALL ELEVATIONS ON THE PLANS ARE REFERENCED TO NAVD 1988

II. APPLICABLE CODES

A. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY, COUNTY AND ALL OTHER LOCAL, STATE AND NATIONAL CODES WHERE APPLICABLE.
B. IN THE EVENT OF A CONFLICT BETWEEN THE GENERAL NOTES AND SPECIFICATIONS ON THIS SHEET AND THE SPECIFICATIONS, CONTRACT DOCUMENTS AND SPECIFICATIONS IN THE SPECIFICATION BOOKLET SHALL GOVERN. IN THE EVENT OF A CONFLICT BETWEEN THESE CONTRACT DOCUMENTS AND THE CITY SPECIFICATIONS, THE CITY SPECIFICATIONS SHALL GOVERN.
C. ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER AND IN STRICT COMPLIANCE WITH ALL THE REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AND ALL STATE AND LOCAL SAFETY AND HEALTH REGULATIONS.
D. THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH THE LAWS OF FLORIDA, AND THE CITY AND COUNTY CODES.
E. ALL HANDICAPPED ACCESSIBLE AREAS SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT, LATEST EDITION.
F. TRENCH SAFETY ACT:
   1. ALL TRENCH EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 90-96 OF THE LAWS OF FLORIDA (THE TRENCH SAFETY ACT).
   2. ALL TRENCH EXCAVATION IN EXCESS OF 5 FEET IN DEPTH SHALL BE UNDERTAKEN IN ACCORDANCE WITH SECTION 1926.650 SUBPART P OF THE OSHA STANDARDS.
   3. THE CONTRACTOR SHALL SUBMIT WITH HIS CONTRACT A COMPLETED, SIGNED, AND NOTARIZED COPY OF THE TRENCH SAFETY ACT COMPLIANCE STATEMENT. THE CONTRACTOR SHALL ALSO SUBMIT A SEPARATE COST ITEM IDENTIFYING THE COST OF COMPLIANCE WITH THE APPLICABLE TRENCH SAFETY CODES.
   4. A TRENCH SAFETY SYSTEM, IF REQUIRED, SHALL BE DESIGNED BY THE CONTRACTOR.
G. ASBESTOS CEMENT PIPE (ACP), AND TRANSIT PIPE, CONTAIN ASBESTOS MATERIAL. ALL ASBESTOS CONTAINING MATERIALS SHALL BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF ALL FEDERAL REGULATIONS. THIS INCLUDES THE CUTTING, PLUGGING AND DISPOSAL OF EXISTING ACP OR TRANSITE WATER MAIN PIPES.

III. PRECONSTRUCTION RESPONSIBILITIES

A. UPON THE RECEIPT OF THE "NOTICE TO PROCEED", THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND ARRANGE A PRECONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS AND THE ENGINEER OF RECORD.
B. THE CONTRACTOR SHALL NOTIFY AND OBTAIN AN UNDERGROUND CLEARANCE FROM ALL UTILITY COMPANIES AND GOVERNMENTAL AGENCIES AT LEAST 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN A SUNSHINE STATE ONE CALL OF FLORIDA, INC. CERTIFICATION CLEARANCE NUMBER AND FIELD MARKINGS AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION. CLEARANCE SHALL BE FOR ALL UNDERGROUND UTILITIES, INCLUDING BUT NOT LIMITED TO, TELEVISION, WATER AND SEWER, TRAFFIC LIGHT COMMUNICATION CABLES, ETC. ON BOTH PUBLIC AND PRIVATE PROPERTY IN THE VICINITY OF THE CONSTRUCTION PROJECT, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING UTILITY COMPANIES, WHERE APPLICABLE:

FLORIDA POWER AND LIGHT COMPANY
BELL SOUTH
LOCAL GAS COMPANY
LOCAL WATER AND SEWER UTILITY COMPANY(S)
LOCAL CABLE TELEVISION COMPANY(S)
CITY ENGINEERING / UTILITY DEPARTMENTS
SPECIAL DISTRICT UTILITY DEPARTMENT
COUNTY TRAFFIC ENGINEERING DEPARTMENT
FLORIDA DEPARTMENT OF TRANSPORTATION
SUNSHINE STATE ONE CALL OF FLORIDA

FOR STREET EXCAVATION OR CLOSING OR FOR ALTERATION OF ACCESS TO PUBLIC OR PRIVATE PROPERTY:
LOCAL POLICE TRAFFIC SERGEANT--
LOCAL FIRE DEPARTMENT DISPATCH

SHALL BE PAID FOR BY THE OWNER/OR CONTRACTOR (AS SPECIFIED IN THE CONSTRUCTION CONTRACT). EXCEPT THOSE TESTS FAILING TO MEET THE SPECIFIED REQUIREMENTS, WHICH ARE TO BE PAID BY THE CONTRACTOR UNLESS OTHERWISE INDICATED ON THE PLANS OR SPECIFICATIONS. REQUIRED TEST FOR ASPHALT AND LIMEROCK SHALL BE TAKEN AT THE DIRECTION OF THE ENGINEER OR THE LOCAL GOVERNMENTAL AGENCY.

V. SHOP DRAWINGS

A. PRIOR TO CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND REVIEWED BY THE ENGINEER OF RECORD FOR THE FOLLOWING (IF APPLICABLE): LIFT / PUMP STATION EQUIPMENT, SANITARY MANHOLES, CATCH BASINS, FIRE HYDRANTS, VALVES, PIPE, PIPE FITTINGS, AND APPURTENANCE ACCESSORIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL OTHER AGENCY APPROVALS IF REQUIRED.

VI. TEMPORARY FACILITIES

A. GENERAL:
   1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES, COMMUNICATIONS AND ELECTRICITY.

B. TRAFFIC REGULATION:
   1. MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.). A MAINTENANCE OF TRAFFIC PLAN MUST BE APPROVED BY THE GOVERNMENTAL ENGINEERING DIVISION HAVING JURISDICTION FOR THE SECTION OF ROADWAY BEFORE STARTING WORK IN THE PUBLIC RIGHT-OF-WAY.
   2. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.
   3. NO TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS, UNLESS IN ACCORDANCE WITH APPROVAL GRANTED BY THE GOVERNMENTAL ENGINEERING DIVISION HAVING JURISDICTION FOR THE SECTION OF ROADWAY.
   4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR ANY NECESSARY CONSTRUCTION, MAINTENANCE AND SIGNAGE OF PEDESTRIAN SIGNALIZATION AND/OR SIGNAL MODIFICATIONS TO ACCOMMODATE AN ALTERATE SAFE WALK ROUTE.
   5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE CONTINUOUS ACCESS TO THE ADJACENT SITES DURING CONSTRUCTION.

C. SECURITY FENCE:
   1. CONTRACTOR SHALL CONSTRUCT TEMPORARY FENCING TO SECURE LIMITS OF WORK.
   2. THE CONTRACTOR'S ONSITE EQUIPMENT, STOCKPILED MATERIAL AND SUPPLIES SHALL BE KEPT IN A SECURE FENCED AND LOCKED LOCATION WHEN CONTRACTOR IS NOT ONSITE.

VII. PROJECT PROGRESS AND CLOSEOUT

A. CLEANING UP:
   1. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER, AND UPON FINAL CLEAN-UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE BROOM SWEPT CLEAN.
   2. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED BY THE ENGINEER OF RECORD, ANY PUBLIC OR PRIVATE PROPERTY (HIGHWAY, DRIVEWAY, WALK AND LANDSCAPING, ETC.) DAMAGED BY HIS WORK, EQUIPMENT, OR EMPLOYEES, TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.
   3. WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR HAS BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING THE PROGRESS OF THE WORK AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.
   4. ALL LAND SURVEY PROPERTY MONUMENTS OR PERMANENT REFERENCE MARKERS, REMOVED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED BY A STATE OF FLORIDA REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
   5. ALL UNPAVED SURFACES DISTURBED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED BEFORE THE CONSTRUCTION.

D. PROJECT RECORD DOCUMENTS:

DURING THE DAILY PROGRESS OF THE JOB, THE CONTRACTOR SHALL RECORD ON HIS SET OF CONSTRUCTION DRAWINGS THE EXACT LOCATION, SIZE AND MATERIAL USED OF ALL WORK THAT IS NOT BUILT EXACTLY ACCORDING TO PLANS.

   1. UPON COMPLETION OF DRAINAGE IMPROVEMENTS AND LIMEROCK BASE CONSTRUCTION (AT LEAST 48 HOURS BEFORE PLACING ASPHALT PAVEMENT) THE CONTRACTOR SHALL FURNISH THE ENGINEER OF RECORD "AS-BUILT" PLANS FOR THESE IMPROVEMENTS, SHOWING THE LOCATIONS AND PERTINENT GRADES OF ALL DRAINAGE INSTALLATIONS AND THE FINISHED ROCK GRADES OF THE ROAD CROWN AND EDGE OF PAVEMENT AT .50 FOOT INTERVALS. INCLUDING LOCATIONS AND ELEVATIONS OF ALL HIGH AND LOW POINTS.
   2. UPON COMPLETION OF CONSTRUCTION, AND PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD ONE COMPLETE SET OF ALL "AS-BUILT" CONTRACT DRAWINGS. ALL SUCH DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONS, LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS.
   3. AS-BUILTS OF WATER LINES SHALL INCLUDE THE FOLLOWING INFORMATION:
      a. TOP OF PIPE ELEVATIONS EVERY 100 LF.
      b. LOCATIONS AND ELEVATIONS OF ALL FITTINGS INCLUDING BENDS, TEES, VALVES, DOUBLE DETECTOR CHECK VALVES, FIRE HYDRANTS, ETC.
      c. ALL TIE INS TO EXISTING LINES SHALL BE AS-BUILT.
      d. THE TAP AND TERMINAL OF ALL WATER SERVICES SHALL BE AS-BUILT.
      e. AS BUILT DATA SHALL INCLUDE GPS DATA.
   4. AS-BUILTS OF ALL GRAVITY SANITARY SEWER LINES SHALL INCLUDE THE FOLLOWING INFORMATION:
      a. RIMS, INVERTS AND LENGTH OF PIPING BETWEEN STRUCTURES AS WELL AS SLOPES.
      b. THE TAP AND STUB ENDS OF ALL SEWER LATERALS SHALL BE LOCATED AND IF THERE ARE NO CLEANOUTS INSTALLED ON THE SEWER LATERALS THEN THE INVERT ELEVATION OF THESE CLEANOUTS SHALL BE OBTAINED.
      c. LIFT STATION AS-BUILTS SHALL CONSIST OF TOP OF WET WELL, INVERTS OF ALL PIPING, TOP OF ALL PUMP HOUSING, BOTTOM OF THE WET WELL AND AS-BUILTS OF THE COMPOUND AREA.
      d. AS BUILT DATA SHALL INCLUDE GPS DATA.
   5. FORCE MAIN AS-BUILTS SHALL BE PREPARED THE SAME AS THE WATER LINE AS-BUILTS.
   6. AS-BUILTS OF ALL DRAINAGE LINES SHALL INCLUDE THE FOLLOWING INFORMATION:
      a. RIMS, INVERTS AND LENGTH OF PIPING BETWEEN STRUCTURES AS WELL AS SLOPES.
      b. THE SIZE OF THE PIPING SHALL BE VERIFIED BY THE SURVEY CREW AT THE TIME OF AS-BUILT. DRAINAGE WELL STRUCTURE AS-BUILTS SHALL INCLUDE, BUT NOT BE LIMITED TO, TOP OF CASING ELEVATION, TOP AND BOTTOM ELEVATIONS OF THE BAFFLE WALLS, RIM ELEVATIONS AND INVERTS OF PIPING.
      c. EXFILTRATION TRENCH LENGTH, WIDTH, BOTTOM ELEVATION AND TOP ELEVATION
   7. ALL ROCK AS-BUILTS FOR PARKING LOT AREAS SHALL CONSIST OF THE FOLLOWING:
      a. ROCK ELEVATIONS AT ALL HIGH AND LOW POINTS, AND AT ENOUGH INTERMEDIATE POINTS TO CONFIRM SLOPE CONSISTENCY.
      b. ROCK AS-BUILTS SHALL BE TAKEN AT ALL LOCATIONS WHERE THERE IS A FINISH GRADE ELEVATION SHOWN ON THE DESIGN PLANS.
      c. ALL CATCH BASIN AND MANHOLE RIM ELEVATIONS SHALL BE SHOWN.
      d. ELEVATIONS AROUND ISLAND AREAS WILL ALSO BE REQUIRED.
      e. WHERE CONCRETE IS TO BE USED AS A FINISHED PRODUCT FOR THE ROADWAY OR PARKING LOT ROCK AS-BUILTS WILL BE REQUIRED AT THE TOP OF BASE ROCK AS WELL AS THE FINISHED CONCRETE AT LOCATIONS WHERE THERE IS A FINISH GRADE ELEVATION SHOWN ON THE DESIGN PLANS.
      f. AS-BUILTS SHALL BE TAKEN ON ALL PAVED AND UNPAVED SWALES, PRIOR TO PLACEMENT OF ASPHALT OR TOPSOIL/SOD, THROUGH INTERMEDIATE POINTS TO CONFIRM SLOPE CONSISTENCY AND CONFORMANCE TO THE PLAN DETAILS.
   8. LAKE AND CANAL BANK AS-BUILTS SHALL INCLUDE A KEY SHEET OF THE LAKE FOR THE LOCATION OF CROSS SECTIONS. LAKE AND CANAL BANK CROSS SECTIONS SHALL BE PLOTTED AT A MINIMUM OF EVERY 100 LF, UNLESS OTHERWISE SPECIFIED. AS-BUILTS SHALL CONSIST OF THE LOCATION AND ELEVATION OF THE TOP OF BANK, EDGE OF WATER AND THE TOE OUT LINE, WITH THE DISTANCE BETWEEN, AS SHOWN ON THE DRAWING.
   9. RETENTION AREA AS-BUILT ELEVATIONS SHALL BE TAKEN AT THE BOTTOM OF THE RETENTION AREA AND AT THE TOP OF BANK EVERY 100 LF, UNLESS OTHERWISE SHOWN ON THE DESIGN PLANS, THEN THEY SHALL BE AS-BUILT AS WELL.
   10. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL PREPARE RECORD DRAWINGS, "AS-BUILTS", ON FULL SIZE, 24" X 36" REPRODUCIBLE MATERIAL ALL RECORD DRAWING, "AS-BUILT", INFORMATION SHALL BE PUT ON THE LATEST ENGINEERING DRAWINGS. ONE (1) SET OF REPRODUCIBLE RECORD DRAWINGS, "AS-BUILTS", SHALL BE SUBMITTED ALONG WITH THREE (3) SETS OF BLUE OR BLACK LINE DRAWINGS. THESE DRAWINGS SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL LAND SURVEYOR. ADDITIONALLY AN ELECTRONIC COPY OF THESE RECORD DRAWINGS, "AS-BUILTS", SHALL BE SUBMITTED TO THE ENGINEER OF RECORD IN AUTOCAD FORMAT

VIII. GENERAL

A. IT IS THE INTENT OF THESE SPECIFICATIONS TO DESCRIBE THE MINIMUM ACCEPTABLE TECHNICAL REQUIREMENTS FOR THE MATERIALS AND WORKMANSHIP FOR CONSTRUCTION OF SITE IMPROVEMENTS FOR THIS PROJECT.
B. IT IS THE INTENT THAT THE FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION) TOGETHER WITH SUPPLEMENTAL SPECIFICATIONS TO THE "STANDARD SPECIFICATIONS" AND THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION) AND THE FDOT "ROADWAY AND TRAFFIC DESIGN STANDARDS" (CURRENT EDITION) BE USED WHERE APPLICABLE FOR THE VARIOUS WORK, AND THAT WHERE SUCH WORDING THEREIN REFERS TO THE STATE OF FLORIDA AND ITS DEPARTMENT OF TRANSPORTATION AND PERSONNEL, SUCH WORDING IS INTENDED TO BE REPLACED WITH THE WORDING WHICH WILL REFER TO THE APPROPRIATE PARTIES FOR THIS PROJECT. SUCH "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" TOGETHER WITH THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS" AS THE "STANDARD SPECIFICATIONS" FOR THIS PROJECT, IF WITHIN A PARTICULAR SECTION, ANOTHER SECTION, ARTICLE OR PARAGRAPH IS REFERRED TO, IT SHALL BE PART OF THE STANDARD SPECIFICATIONS ALSO. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL AND STATE LAWS, REGULATIONS AND BUILDING CODES WHICH HAVE JURISDICTION IN THE AREA.
C. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT AND PERFORM ALL OPERATIONS REQUIRED TO COMPLETE THE CONSTRUCTION OF SITE DEVELOPMENT INCLUDING GRADING, DRAINAGE, PAVING AND UTILITIES AS SHOWN ON THE PLANS AND SPECIFIED HEREIN, OR BOTH. IT IS THE INTENT TO PROVIDE A COMPLETE AND OPERATING FACILITY IN ACCORDANCE WITH THESE SPECIFICATIONS AND THE CONSTRUCTION DRAWINGS. THE MATERIAL AND EQUIPMENT SHOWN OR SPECIFIED SHALL NOT BE TAKEN TO EXCUSE ANY OTHER INCIDENTALS NECESSARY TO COMPLETE THE WORK.
D. ALL LABOR, MATERIALS, AND METHODS OF CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE PLANS AND CONSTRUCTION SPECIFICATIONS AND THE "STANDARD ENGINEERING AND CONSTRUCTION STANDARDS ADOPTED BY THE UNIT OF GOVERNMENT HAVING JURISDICTION OVER THE PROJECT AREA. IN THE CONSTRUCTION WHERE CONFLICTS OCCUR BETWEEN THE JURISDICTIONAL GOVERNMENT ENGINEERING DEPARTMENT'S STANDARDS SHALL GOVERN. SUBSTITUTIONS OR DEVIATIONS FROM PLANS AND SPECIFICATIONS SHALL BE PERMITTED ONLY WITH WRITTEN APPROVAL AND ONLY WHEN ISSUED BY THE ENGINEER.
E. GUARANTEE – ALL MATERIALS AND EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR UNDER THIS CONTRACT, SHALL BE GUARANTEED FOR A PERIOD OF (1) ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE THEREOF. DEFECTIVE MATERIALS, DESIGN AND WORKMANSHIP, UPON RECEIPT OF NOTICE FROM THE OWNER, OF SUCH DEFECTS, SHALL BE REPAIRED OR GUARANTEED EQUIPMENT OR MATERIALS, DURING THE GUARANTEE PERIOD, SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR PROMPTLY IN WITH NEW PARTS OR MATERIALS AS INSTRUCTED, AT NO EXPENSE TO THE OWNER. IN THE EVENT THE CONTRACTOR FAILS TO MAKE NECESSARY REPAIRS OR REPLACEMENTS WITHIN (7) SEVEN DAYS AFTER NOTIFICATION BY THE OWNER, THE OWNER MAY CONSUMMUSH THE WORK AT THE EXPENSE OF THE CONTRACTOR.

IX. EARTHWORK

A. ALL AREAS TO BE CONSTRUCTED UPON WITH STRUCTURES, PAVEMENT, CURB, SIDEWALK, FENCING ETC. SHALL BE CLEARED AND GRUBBED PRIOR TO CONSTRUCTION. THIS SHALL CONSIST OF COMPLETE REMOVAL AND DISPOSAL OF ALL BRUSH, STUMPS, TREES, ROOTS, DEBRIS, RUBBISH AND ALL OTHER OBSTRUCTIONS RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE EXISTING GROUND TO A DEPTH OF 1', ITEMS DESIGNATED TO REMAIN OR TO BE RELOCATED OR TO BE ADJUSTED SHALL BE PROTECTED FROM THE CONSTRUCTION OPERATIONS. ALL WORK SHALL BE IN ACCORDANCE WITH SECTION 110 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION).
B. NONE OF THE EXISTING LIMEROCK MATERIAL FROM DEMOLISHED PAVEMENT IS TO BE INCORPORATED IN THE NEW LIMEROCK BASE. THE EXISTING LIMEROCK MATERIAL FROM DEMOLISHED PAVEMENT SHALL BE INCORPORATED INTO EITHER THE EMBANKMENT OR SUBBASE, OR STABILIZED SHOULDER.
C. FILL MATERIAL SHALL BE CLASSIFIED AS A-1, A-3, OR A-2-4 IN ACCORDANCE WITH AASHTO M-145 AND SHALL BE FREE FROM VEGETATION AND ORGANIC MATERIAL AND SHALL CONTAIN BY WEIGHT OF FILL MATERIAL SHALL PASS THE NO. 200 SIEVE.
D. ALL FILL MATERIAL IN AREAS SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.
E. ALL MATERIAL AND CONSTRUCTION SHALL BE SUBJECT TO INSPECTION AND TESTING TO ESTABLISH CONFORMANCE WITH THE SPECIFICATIONS AND SUITABILITY FOR THE USES INTENDED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO THE TIME HE WILL BE READY FOR AN INSPECTION OR TEST. THE CONTRACTOR SHALL FURNISH STATE, CITY, AND COUNTY INSPECTION PROCEDURES. THE CONTRACTOR SHALL NOT PROCEED WITH ANY PHASE OF WORK DEPENDENT ON AN INSPECTION OR TEST UNTIL RESULTS ARE FURNISHED AND THE CONTRACTOR IS NOTIFIED THAT THE WORK IS ACCEPTABLE. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING CERTIFIED MATERIAL TEST RESULTS TO THE ENGINEER OF RECORD PRIOR TO THE REQUEST OF FINAL CERTIFICATION BY THE ENGINEER. TEST RESULTS MUST INCLUDE, BUT MAY NOT BE LIMITED TO, DENSITIES FOR SUBGRADE AND LIMEROCK, UTILITIES EXCAVATION, ASPHALT GRADATION REPORTS, CONCRETE CYLINDERS, ETC.
F. WHEN ENCOUNTERED, MUCK SHALL BE COMPLETELY REMOVED FROM THE GREATER LINE (10) TEN FEET OUTSIDE THE EDGE OF PAVEMENT EACH SIDE. ALL SUCH MATERIAL SHALL BE REPLACED BY APPROVED GRANULAR FILL, COMPACTED TO 98% OF MAXIMUM DENSITY (AASHTO T-180).
G. WHEN ENCOUNTERED WITHIN PROPOSED DRAINAGE SWALES, HARDPAN SHALL BE REMOVED FOR A WIDTH OF (5) FIVE FEET AT THE INVERT AND REPLACED WITH GRANULAR FILL.
H. ALL UNDERGROUND UTILITIES AND DRAINAGE INSTALLATIONS SHALL BE IN PLACE PRIOR TO SUBGRADE COMPACTION AND PAVEMENT CONSTRUCTION.
I. GROUND ADJACENT TO ROADWAY/PAVEMENT WHERE STORMWATER RUNOFF FLOWS FROM PAVEMENT TO GROUND SHALL BE SET (2) TWO INCHES LOWER THAN THE EDGE OF PAVEMENT TO ALLOW FOR THE PLACEMENT OF SOD.
J. SITE GRADING ELEVATIONS SHALL BE WITHIN 0.1' OF THE REQUIRED ELEVATION AND ALL AREAS SHALL BE GRADED TO DRAIN POSITIVELY.
K. THE CONTRACTOR SHALL PERFORM ALL EXCAVATION, FILL EMBANKMENT AND GRADING TO ACHIEVE THE PROPOSED FINAL GRADES INCLUDING TYPICAL ROAD SECTIONS, SIDE SLOPES AND DRAINAGE FACILITIES AS SHOWN ON THE PLANS AND SPECIFIED IN SECTION 120 OF THE STANDARD SPECIFICATIONS. IF FILL MATERIAL IS REQUIRED IN EXCESS OF THAT GENERATED BY THE EXCAVATION, THE CONTRACTOR SHALL PROVIDE SUITABLE FILL AS REQUIRED FROM OFF-SITE.
L. NO TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN OVERNIGHT.

X. ASPHALT PAVING

A. WHERE NEW ASPHALT MEETS EXISTING ASPHALT, THE EXISTING ASPHALT SHALL BE SAW CUT TO PROVIDE A STRAIGHT EVEN LINE PRIOR TO REMOVING CURB OR GUTTER, SO THAT PAVEMENT ASPHALT SHALL BE SAW CUT TO PROVIDE A STRAIGHT EVEN LINE.
B. ASPHALT PAVING SHALL BE CONSTRUCTED ON A 12" SUBGRADE, COMPACTED TO A MINIMUM DENSITY OF 100% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99=C. THE COMPACTED SUBGRADE SHALL BE PROOF ROLLED AND ANY SOFT SPOTS SHALL BE REMOVED. ON THE PLANS, ALL SUBGRADE SHALL HAVE A MINIMUM LBR OF 40 UNLESS OTHERWISE NOTED.
C. ASPHALTIC CONCRETE SURFACE COURSE SHALL BE CONSTRUCTED TO THE LIMITS SHOWN ON THE PLANS. THE SURFACE COURSE SHALL CONSIST OF THE THICKNESS AND TYPE ASPHALTIC CONCRETE AS SPECIFIED IN THE PLANS.

LIMEROCK BASE SHALL BE PREPARED, COMPACTED AND GRADED AND SHALL BE IN ACCORDANCE WITH SECTION 200 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION). LIMEROCK SHALL BE TESTED AND MEET FDOT FOR AASHTO T-180 AND HAVE NOT LESS THAN 70% OF CARBONATES OF CALCIUM AND MAGNESIUM UNLESS OTHERWISE SPECIFIED. ALL LIMEROCK SHALL BE PROOF ROLLED. ENGINEER SHALL INSPECT THE COMPLETED BASE COURSE AND THE CONTRACTOR SHALL CORRECT ANY DEFICIENCIES AND CLEAN THE BASE COURSE PRIOR TO THE PLACEMENT OF THE PRIME COAT. ALL LIMEROCK BASE SHALL BE PRIMED WITH ASPHALT PRIME COAT THAT THE PRIMED BASE HAS BECOME EXCESSIVELY DRY OR THE PRIME COAT HAS CURED TO THE EXTENT OF LOSING BONDING EFFECT PRIOR TO PLACEMENT OF THE ASPHALTIC CONCRETE SURFACE COURSE. THE PRIME AND TACK COATS SHALL BE IN ACCORDANCE WITH SECTION 300 OF FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION).

D. LIMEROCK BASE MATERIAL SHALL BE PLACED IN MAXIMUM 6" LIFTS. BASES GREATER THAN 6" SHALL BE PLACED IN TWO EQUAL LIFTS OR IN ACCORDANCE WITH THE APPLICABLE SECTION OF THE STANDARD SPECIFICATIONS.
E. ASPHALT EDGES THAT ARE NOT CURBED SHALL BE SAW CUT TO PROVIDE A STRAIGHT EVEN LINE AND SHALL BE TRIMMED SMOOTH TO THE HORIZONTAL CONTROL PLANS.
F. ALL UNDERGROUND UTILITIES SHALL BE COMPLETED PRIOR TO FINISHED GRADING AND COMPACTION OF SUBGRADE.
G. EXISTING PAVEMENT, CUT OR DAMAGED BY CONSTRUCTION, SHALL BE PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE.
H. ALL REPAIRS TO EXISTING PAVEMENT SHALL RECEIVE SAW-CUT EDGES.
I. UTILITY PIPING OR WIRING LESS THAN FOUR (4) INCHES IN DIAMETER SHALL BE CONSTRUCTED IN A SCHEDULE 40 PVC CASING PIPE WITH SAND BACKFILLS UNDER PAVED AREAS ONLY.
J. UNLESS OTHERWISE INDICATED ON THE GRADING PLAN, THE MINIMUM SLOPE OF PAVEMENT SECTIONS SHALL BE:
   TRANSVERSE SLOPE – 2.0% FOR ROADWAYS & 1.0% FOR PARKING AREAS
   LONGITUDINAL SLOPE – 0.3%
K. ASPHALT PAVEMENT SECTIONS FOR ROADWAYS & PARKING LOTS SHALL CONFORM WITH THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), AND THE FOLLOWING. IF THERE IS A DISCREPANCY BETWEEN THE PLANS, SPECS, AND FDOT STANDARDS, THE FDOT STANDARDS SHALL GOVERN.

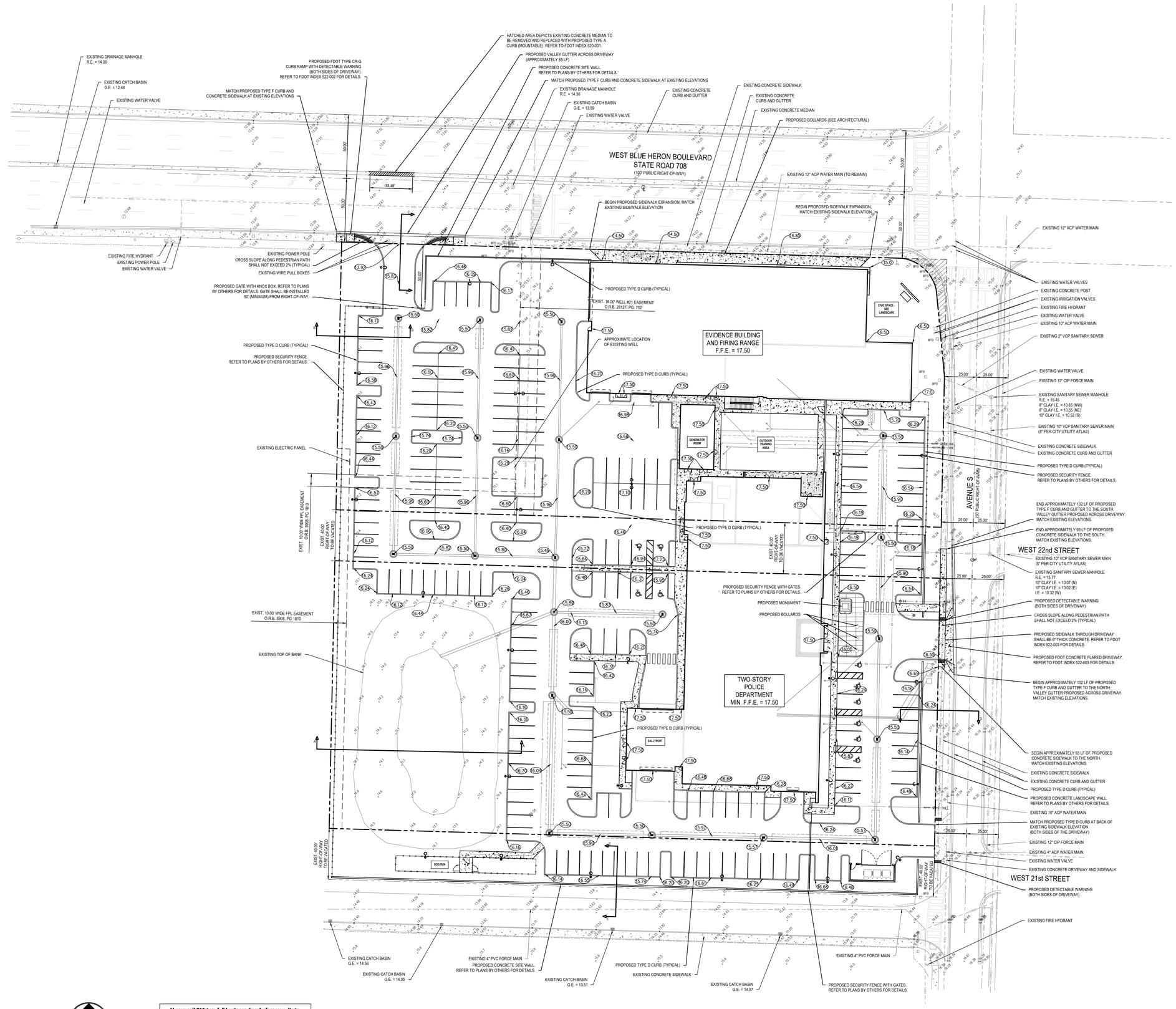
PAVEMENT BASE COURSE:
SEE PLAN SHEET AND DETAILS FOR LIMEROCK BASE MINIMUM THICKNESS.

PAVEMENT SURFACE COURSE:
SEE PLAN SHEET AND DETAILS FOR THICKNESS AND TYPE OF ASPHALTIC CONCRETE PAVEMENT.
IF PLANS OR DETAILS CALL FOR ASPHALT TO BE CONSTRUCTED IN TWO LIFTS, A TACK COAT (0.25 GAL./SQ. YD.) SHALL BE APPLIED BETWEEN PAVING COURSES.
THE FINAL COURSE OF ASPHALT IS NOT BE APPLIED UNTIL ALL LANDSCAPE CONSTRUCTION, STREET LIGHTING CONSTRUCTION AND UTILITY BUILDING CONSTRUCTION REQUIRING HEAVY EQUIPMENT THAT MAY DAMAGE THE ASPHALT SURFACE, IS COMPLETE.

L. TESTING
   1. THE FINISHED SURFACE OF THE BASE COURSE AND THAT OF THE WEARING SURFACE SHALL NOT VARY MORE THAN 1/4" FROM THE TEMPLATE, ANY IRREGULARITIES EXCEEDING THIS LIMIT SHALL BE CORRECTED.
   2. DENSITY TESTS SHALL BE TAKEN BY AN INDEPENDENT TESTING LABORATORY CERTIFIED BY THE STATE OF FLORIDA WHERE DIRECTED BY THE ENGINEER.
   3. DENSITY TESTS ON THE STABILIZED SUBGRADE SHALL BE SUPPLIED TO THE ENGINEER OF RECORD, AND APPROVED BEFORE ANY LIMEROCK BASE IS CONSTRUCTED. NUCLEAR GAUGE TESTING ARE NOT APPROPRIATE FOR THIS APPLICATION.
   4. DENSITY TESTS (EVERY 7000 SQ. FT.) OF THE BASE, AND SUBGRADE, AND AS-BUILTS ON THE FINISHED LIMEROCK BASE SHALL BE SUPPLIED TO THE ENGINEER OF RECORD, AND APPROVED BEFORE ANY ASPHALT IS PLACED. NUCLEAR GAUGE TESTING ARE NOT APPROPRIATE FOR THIS APPLICATION.
   5. THE HIGH DENSITY POLYETHYLENE PIPE JOINTS SHALL BE OF A RUBBER OR NEOPRENE GASKET CONFORMING TO ASTM F477 AND CONFORM TO ASTM D3212 FOR JOINT TIGHTNESS.
   6. LIMEROCK BEARING RATIOS, SIEVE ANALYSIS AND DENSITIES REQUIRED BY THE CONTRACT DOCUMENTS SHALL BE SUBMITTED TO THE ENGINEER

XI. CONCRETE CONSTRUCTION

A. CONCRETE SIDEWALK SHALL BE IN ACCORDANCE WITH SECTION 522 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST



PAVING AND GRADING LEGEND

PROPERTY or R/W LINE
CENTER LINE
NON VEHICULAR ACCESS LINE
CROSS SECTION

ABBREVIATIONS

PROP.	PROPOSED
EXIST.	EXISTING
I.E.	INVERT ELEVATION
M.H.	MANHOLE
C.B.	CATCH BASIN
D.W.	DRAINAGE WELL
R.E.	RIM ELEVATION
G.E.	GRATE ELEVATION

GENERAL PAVING AND GRADING NOTES:

1. CONTRACTOR TO RESTORE ALL EXISTING PAVEMENT, PAVEMENT MARKINGS, SIDEWALK, LANDSCAPING, IRRIGATION, ETC. DAMAGED DURING CONSTRUCTION INCLUDING ANY DAMAGE TO EXISTING ROADWAY IN PUBLIC R.O.W.
2. EXISTING GRADES SHOWN BY XX.XX GOVERN. XX.X ARE FOR REFERENCE ONLY. FINISHED GRADES INDICATED
3. ALL ELEVATIONS SHOWN HEREON REFER TO NAVD 1988 UNLESS NOTED OTHERWISE.
4. CROSSWALKS AND HC RAMPS TO CONFORM TO ADA W/ DETECTABLE WARNING SURFACE.
5. EXACT LOCATION OF METERS AND BFPs TO BE COORDINATED IN THE FIELD.
6. REFER TO PAVING, GRADING, AND DRAINAGE DETAILS AND SECTIONS FOR ADDITIONAL INFORMATION.
7. RESTORE ANY PAVEMENT MARKINGS AFFECTED BY THE INSTALLATION OF THE TYPE 'F' CURB AND GUTTER PER PALM BEACH COUNTY MINIMUM STANDARDS.
8. ALL ADA MATS / DETECATBLE WARNINGS ARE TO BE CAST-IN-PLACE.
9. UNLESS NOTED OTHERWISE ON THE PLANS OR DETAILS, ANY MILLING AND RESURFACING REQUIRED BY THIS PROJECT SHALL BE A MINIMUM OF 1" DEPTH.

0 15 30 60 90
GRAPHIC SCALE IN FEET

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CLIENT

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SEAL

DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
	10/14/2025	90% Construction Documents/Permit Set

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S
RIVIERA BEACH, FL 33404

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

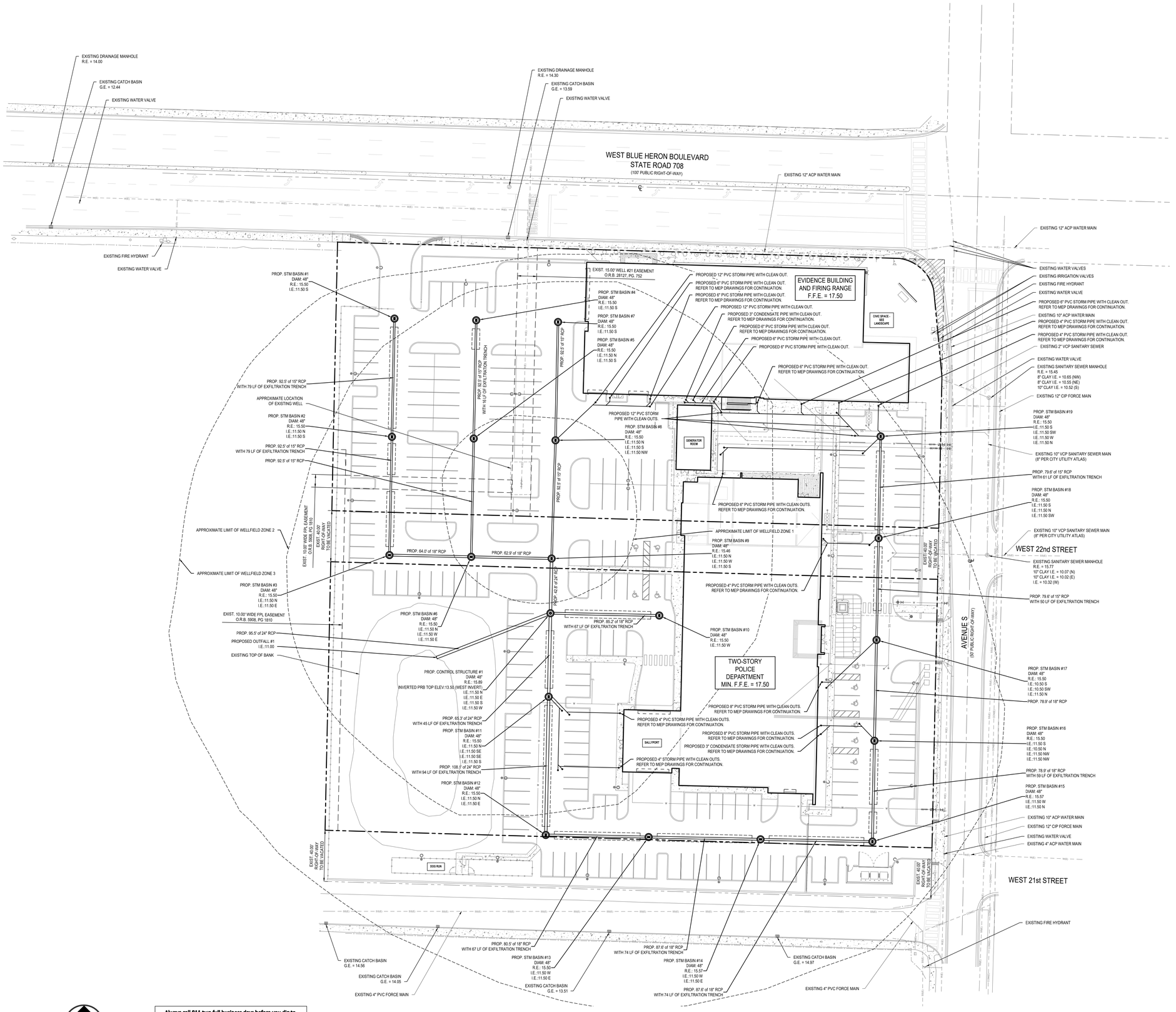
PGAL PROJECT NUMBER
1007657.00

BTE PROJECT NUMBER
24-0504

BTE ISSUE DATE
10-14-2025

SHEET TITLE
PAVING AND GRADING PLAN

SHEET NUMBER
C-2



DRAINAGE LEGEND

- PROP. FDOT TYPE C BASIN INLET TOP
- PROP. FDOT TYPE C BASIN CURB INLET TOP
- PROP. ROUND BASIN INLET TOP
- PROP. ROUND BASIN MANHOLE TOP
- PROP. BASIN CURB INLET TOP
- PROP. DRAINAGE WELL
- PROP. YARD DRAIN
- PROP. CLEAN OUT
- PROP. DRAINAGE PIPE
- PROP. EXFILTRATION TRENCH
- PROP. SANITARY SEWER PIPE
- PROP. WATER PIPE
- EXIST. WATER PIPE
- EXIST. SANITARY SEWER PIPE
- EXIST. STORM PIPE
- EXIST. ATT UNDERGROUND
- EXIST. BROWARD TRAFFIC COMMUNICATIONS
- EXIST. BROWARD FIBER OPTIC
- EXIST. COMCAST UNDERGROUND
- EXIST. ELECTRICAL UNDERGROUND
- EXIST. FIBER OPTIC UNDERGROUND
- EXIST. UNKNOWN UNDERGROUND
- EXIST. FPL UNDERGROUND
- EXIST. ELECTRICAL UNDERGROUND
- EXIST. ATT UNDERGROUND
- EXIST. OVERHEAD
- EXIST. TELEPHONE UNDERGROUND

ABBREVIATIONS

PROP.	PROPOSED
EXIST.	EXISTING
I.E.	INVERT ELEVATION
M.H.	MANHOLE
C.B.	CATCH BASIN
D.W.	DRAINAGE WELL
R.E.	RIM ELEVATION
G.E.	GRATE ELEVATION

GENERAL DRAINAGE NOTES:

1. ALL ROOF DRAINS TO BE CONNECTED TO THE NEAREST STORM DRAINAGE STRUCTURE.
2. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL EXISTING DRAINAGE WITHIN THE RIGHT OF WAY THAT HAS BEEN AFFECTED BY THE CONSTRUCTION.
3. DURING CONSTRUCTION ACTIVITIES INLET PROTECTION SHALL BE PROVIDED FOR ALL DRAINAGE INLETS ADJACENT TO THE PROJECT SITE. REFER TO POLLUTION/EROSION CONTROL PLAN.
4. SHOULD DEWATERING BE REQUIRED, CONTRACTOR IS RESPONSIBLE FOR OBTAINING REQUIRED AGENCY APPROVALS AND OR PERMITS.
5. ALL EXISTING UTILITIES SHOWN ON THIS PLAN ARE BASED ON THE BEST AVAILABLE INFORMATION. THE EXISTING UTILITY INFORMATION SHOWN HERE IS FOR THE CONTRACTOR'S CONVENIENCE AND THE E.O.R. ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. BEFORE COMMENCING CONSTRUCTION CONTRACTOR TO CALL FOR UTILITY LOCATES, VERIFY ALL EXISTING UTILITIES' LOCATIONS AND DEPTHS, AND NOTIFY E.O.R. OF ANY CONFLICTS.
6. ALL ELEVATIONS SHOWN HEREON REFER TO NAVD 1988 UNLESS NOTED OTHERWISE.

0 15 30 60 90
GRAPHIC SCALE IN FEET

Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshine811.com

CLIENT

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SEAL

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PROJECT LOCATION
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RIVIERA BEACH, FL 33404

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

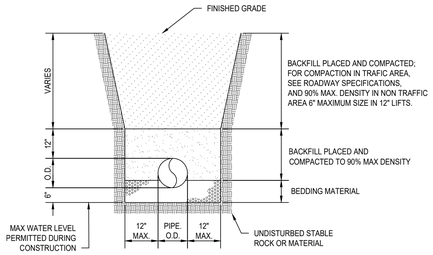
PGAL PROJECT NUMBER
1007657.00

BTE PROJECT NUMBER
24-0504

BTE ISSUE DATE
10-14-2025

SHEET TITLE
DRAINAGE PLAN

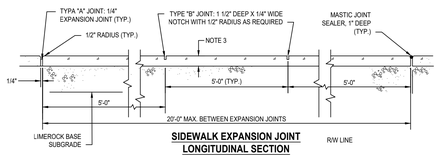
SHEET NUMBER
C-3



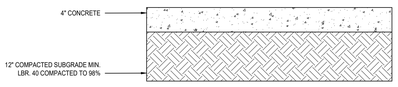
NOTES:

1. WHERE SOIL CONDITION CANNOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE APPROVED MEANS OF CONSTRUCTION.,
2. WHERE REQUIRED, SHEETING AND SHORING SHALL BE IN ACCORDANCE WITH THE LOCAL GOVERNMENTAL AGENCY.
3. MUCH OR OTHER UNSUITABLE MATERIAL SHALL BE COMPLETELY REMOVED.
4. WHEN THE PIPE IS LAID IN THE PREPARED TRENCH, TRUE TO LINE AND GRADE, THE PIPE BARREL SHALL RECEIVE CONTINUOUS UNIFORM SUPPORT.
5. JOINTS MAY BE REQUIRED TO BE WRAPPED AT THE DISCRETION OF THE DISTRICT AND THE SITE CONDITIONS.
6. BACKFILL MATERIAL SHALL BE NON-COHESIVE AND NON-PLANSTIC SOIL THAT IS FREE OF ALL DEBRIS, LUMPS, WOOD, BROKEN PAVING OR ANY ORGANIC OR UNSUITABLE MATERIAL. BACKFILL MATERIAL PLACED WITHIN 12" OF THE PIPE SHALL CONTAIN NO ROCKS OR STONES LARGER THAN 3 1/2" IN DIAMETER. NO ROCKS OR STONES LARGER THAN 6" IN DIAMETER WILL BE PERMITTED IN THE REMAINING BACKFILL UNLESS OTHERWISE SPECIFIED.
7. TRENCH BACKFILL SHALL BE COMPACTED TO NOT LESS THAN 90% OF THE MAXIMUM DRY DENSITY DETERMINED BY AASHTO T-180. BACKFILL AND COMPACTION SHALL BE IN ACCORDANCE TO THE STANDARD ENGINEERING DESIGN REQUIRED BY THE LOCAL GOVERNMENTAL AGENCY.

TRENCH EXCAVATION DETAIL
NTS



SIDEWALK EXPANSION JOINT LONGITUDINAL SECTION



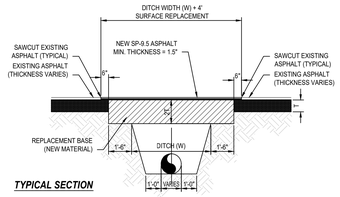
SIDEWALK SECTION
(NON-VEHICULAR AREAS)

SIDEWALK JOINTS	
TYPE	LOCATION
"A"	20' O.C. AND P.T. OF CURVES
"B"	6'-0" CENTER TO CENTER ON SIDEWALKS

NOTES:

1. CONCRETE TO BE TYPE I 3,000 PSI @ 28 DAYS.
2. USE OF REINFORCED CEMENT IS PROHIBITED.
3. 4" THICK MINIMUM 6" AT VEHICULAR AREAS
4. SIDEWALK SLOPES SHALL MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT.
5. CONSTRUCT EXPANSION JOINTS AT SPACINGS SHOWN ABOVE: AT POINT OF CURVATURE, AT ADJUOINING STRUCTURES, AND AT THE END OF DAYS WORK.

SIDEWALK DETAIL
NTS

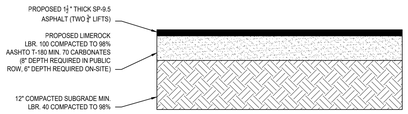


TYPICAL SECTION

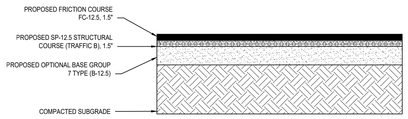
NOTES:

1. BASE MATERIAL OVER DITCH SHALL BETWICE THE THICKNESS OF THE ORIGINAL.
2. BASE MATERIAL SHALL BE PLACED IN 6" MAXIMUM LAYERS (LOOSE MEASUREMENT) AND EACH LAYER THOROUGHLY ROLLED OR TAMPED TO 98% OF MAXIMUM DENSITY, PER AASHTO T-180. MINIMUM LBR = 100
3. ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED.
4. SURFACE MATERIAL SHALL BE CONSISTENT WITH THE SURROUNDING SURFACE MATERIAL.
5. BASE MATERIAL SHALL HAVE A MIN. CARBONATE OF 70% (60% FOR LOCAL STREETS).
6. SUB GRADE MATERIAL SHALL BE GRANULAR AND ANGULAR AND SHALL HAVE A MINIMUM LBR OF 40.
7. IF THE DITCH IS FILLED TEMPORARILY, IT SHALL BE COVERED WITH A 2" THICK ASPHALT CONCRETE PATCH TO KEEP THE FILL MATERIAL FROM RAVELING, UNTIL REPLACED WITH A PERMANENT PATCH.

RESTORATION OF FLEXIBLE PAVEMENT CROSSING USING LIMEROCK BASE*
NTS

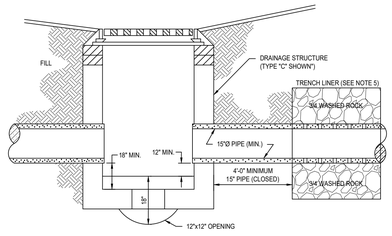


TYPICAL ASPHALT PAVEMENT SECTION (ONSITE AND CITY RIGHT-OF-WAY)
NTS

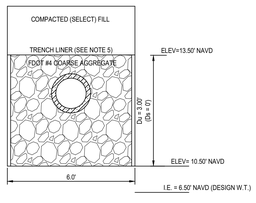


FDOT ROW ASPHALT PAVEMENT SECTION
NTS

STATE ROAD NOTE: IN FDOT ROW, ANY PROPOSED ASPHALT IS TO MATCH EXISTING STATE ROAD ASPHALT.



LONGITUDINAL SECTION

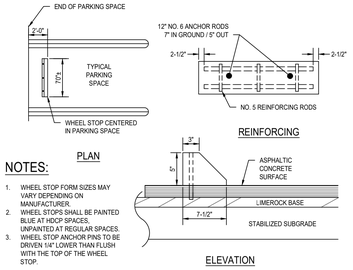


TRENCH SECTION

NOTES

1. DRAIN FIELD MAY BE OF SLOTTED CONCRETE PIPE.
2. PIPES SHALL TERMINATE 2' FROM END OF TRENCH OR CONNECT TO ADDITIONAL CATCH BASINS WITH A MINIMUM OF 4' SEPARATION BETWEEN TRENCH AND CATCH BASIN AS REQUIRED.
3. COVER PIPE ENDS WITH NO. 10 GALVANIZED OR ALUMINUM SCREEN, OPENING NO LARGER THAN ½" x½".
4. BALLAST ROCK SHALL BE FROM FRESH WATER WASHED FREE OF DELETERIOUS MATTER.
5. SIDES AND TOP OF TRENCH TO BE LINED WITH ONE LAYER OF PLASTIC TYPE FILTER CLOTH OR APPROVED EQUAL OVERLAP TRENCH LINING MATERIAL A MINIMUM OF TWO FEET AT TOP OF TRENCH
6. FILTER FABRIC TO BE GEOGTEX 351 OR AMOCO 4545 OR EQUIVALENT.

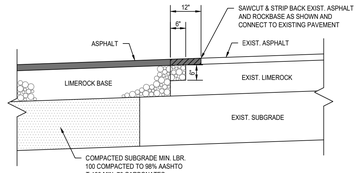
EXFILTRATION TRENCH DETAIL
NTS



NOTES:

1. WHEEL STOP FORM SIZES MAY VARY DEPENDING ON MANUFACTURER.
2. WHEEL STOPS SHALL BE PAINTED BLUE AT HDCP SPACES, UNPAINTED AT REGULAR SPACES.
3. WHEEL STOP ANCHOR PINS TO BE DRIVEN 1/4" LOWER THAN FLUSH WITH THE TOP OF THE WHEEL STOP.

CONCRETE WHEEL STOP DETAIL
NTS



PAVEMENT CONNECTION DETAIL
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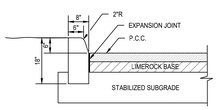
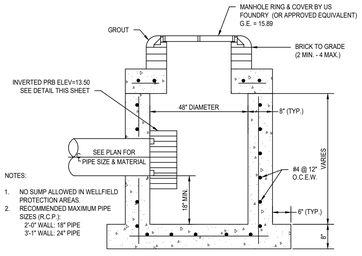
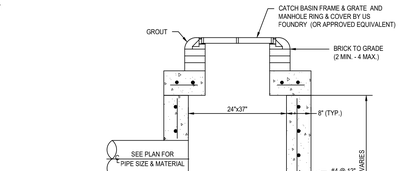


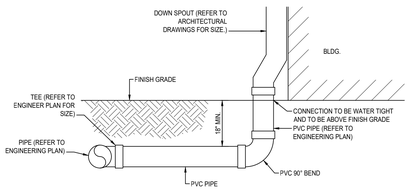
TYPE "D" CURB DETAIL
N.T.S.



CONTROL STRUCTURE #1
NTS



TYPE 'C' DRAINAGE STRUCTURE
NTS



DOWN SPOUT CONNECTION
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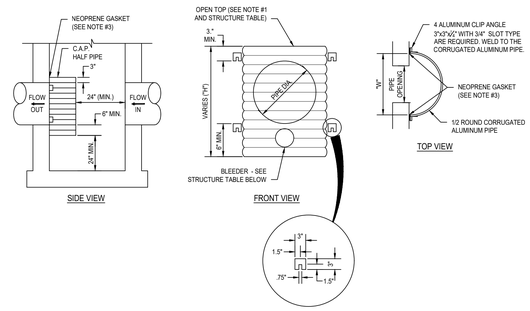
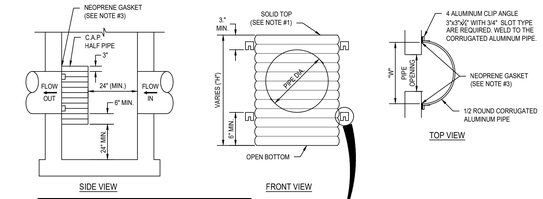


INVERTED POLLUTION RETARDANT BAFFLE
NTS



DIMENSIONS				
PIPE DIA.	W¹ (IN)	W² (IN)	T (GAUGE)	H (IN)
15"	21"	24"	16	VARIES
18"	24"	30"	16	
21"	30"	30"	16	
24"	30"	36"	16	
30"	36"	42"	14	
36"	42"	48"	14	
42"	48"	54"	14	
48"	54"	60"	14	
54"	60"	66"	14	

¹ RECTANGULAR STRUCTURE
² ROUND STRUCTURE

NOTES:

1. ALUMINUM SHEET OF SAME THICKNESS (GAUGE) AS PIPE SHALL BE WELDED TO CLOSE OPENING AT THE TOP.
2. BAFFLE SHALL BE AS MANUFACTURED BY SOUTHERN CULVERT OR ENGINEER'S APPROVED EQUAL.
3. NEOPRENE GASKET (3/8" x 2") SHALL BE INSTALLED AT ALL BAFFLES ON THE SIDES AND AT THE TOP.
4. POLLUTION RETARDANT BAFFLE TO BE ATTACHED TO STRUCTURE W/ 3/8" x 4" STAINLESS STEEL "RED HEADS"
5. MINIMUM INVERT ELEVATION ON POLLUTION RETARDANT BAFFLE TO BE 2' BELOW CONTROL ELEVATION.
6. ALL EXFILTRATION TRENCHES SHALL HAVE A POLLUTION RETARDANT BAFFLE AT EACH CONNECTION POINT TO A STRUCTURE.
7. FIBERGLASS BAFFLES ARE NOT PERMITTED.

POLLUTION RETARDANT BAFFLE
NTS

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SEAL

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PROJECT LOCATION
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PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

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BTE PROJECT NUMBER
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BTE ISSUE DATE
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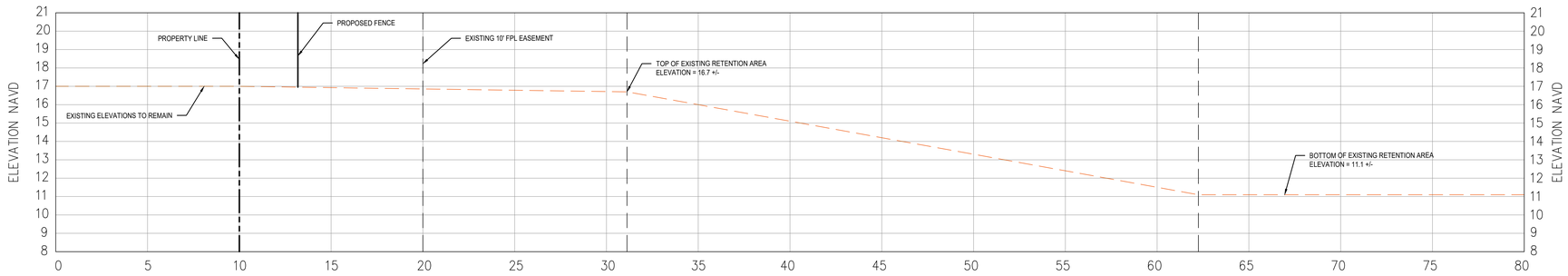
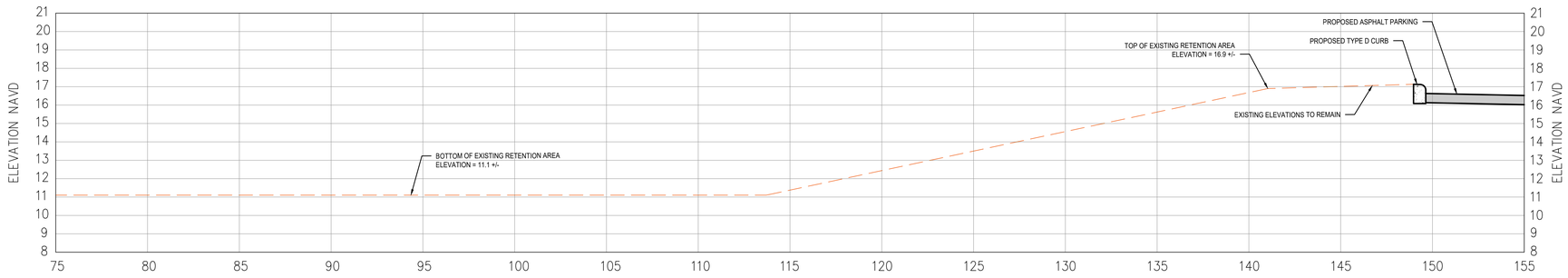
SHEET TITLE
PAVING GRADING AND DRAINAGE DETAILS

SHEET NUMBER
C-3.1



SECTION A-A



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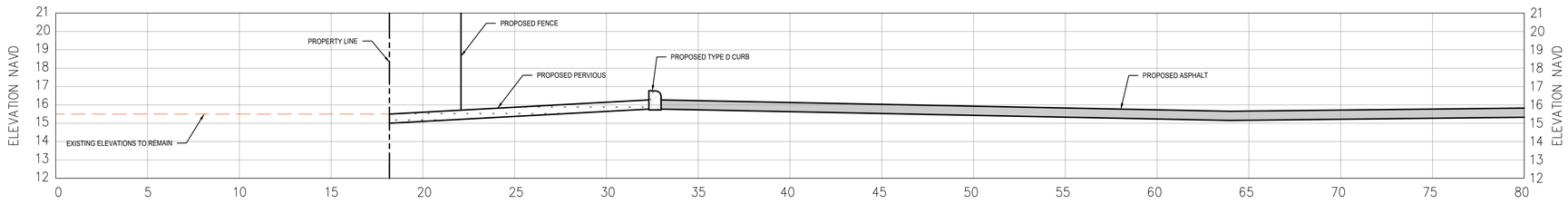
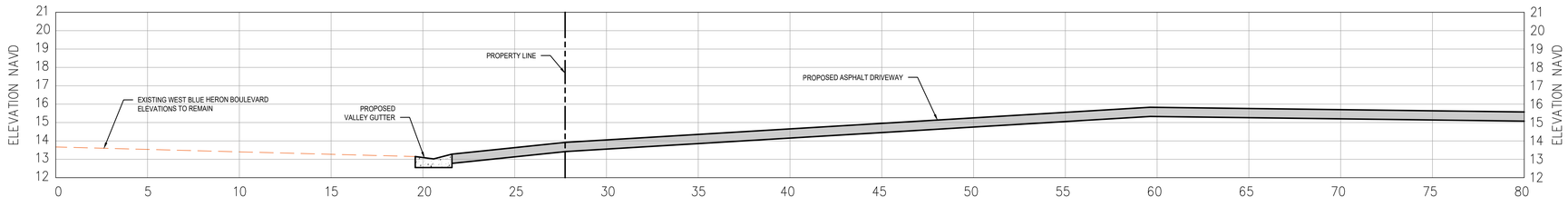


SECTION B-B



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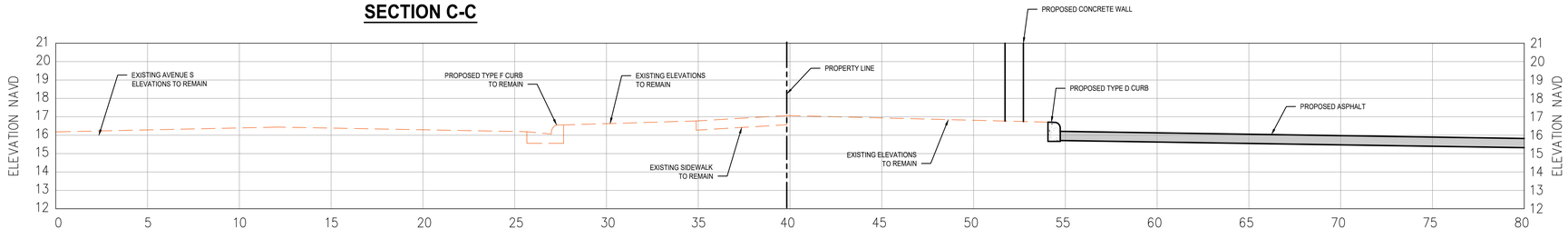

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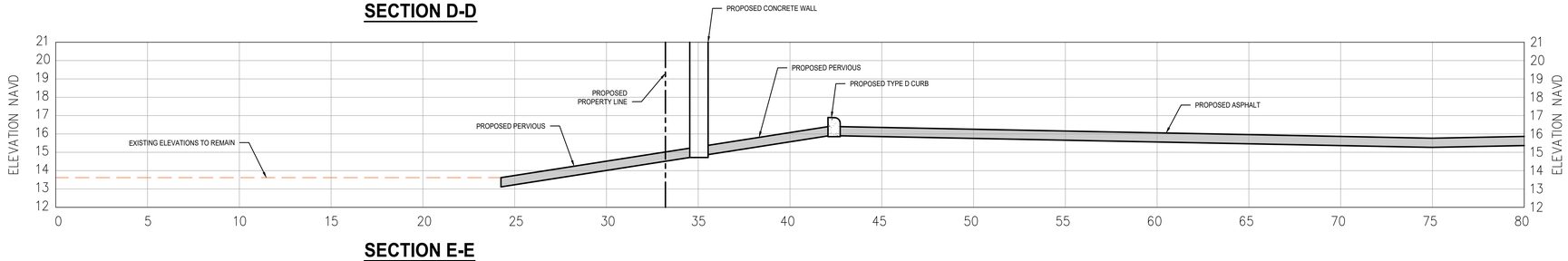

SECTION E-E

CROSS-SECTION LEGEND

- PROPERTY LINE
- EASEMENT / DEDICATION
- EXIST. GRADE
- PROP. CONCRETE
- PROP. ASPHALT
- PROP. PAVERS OR SPECIALTY CONCRETE
- PROP. PERVIOUS

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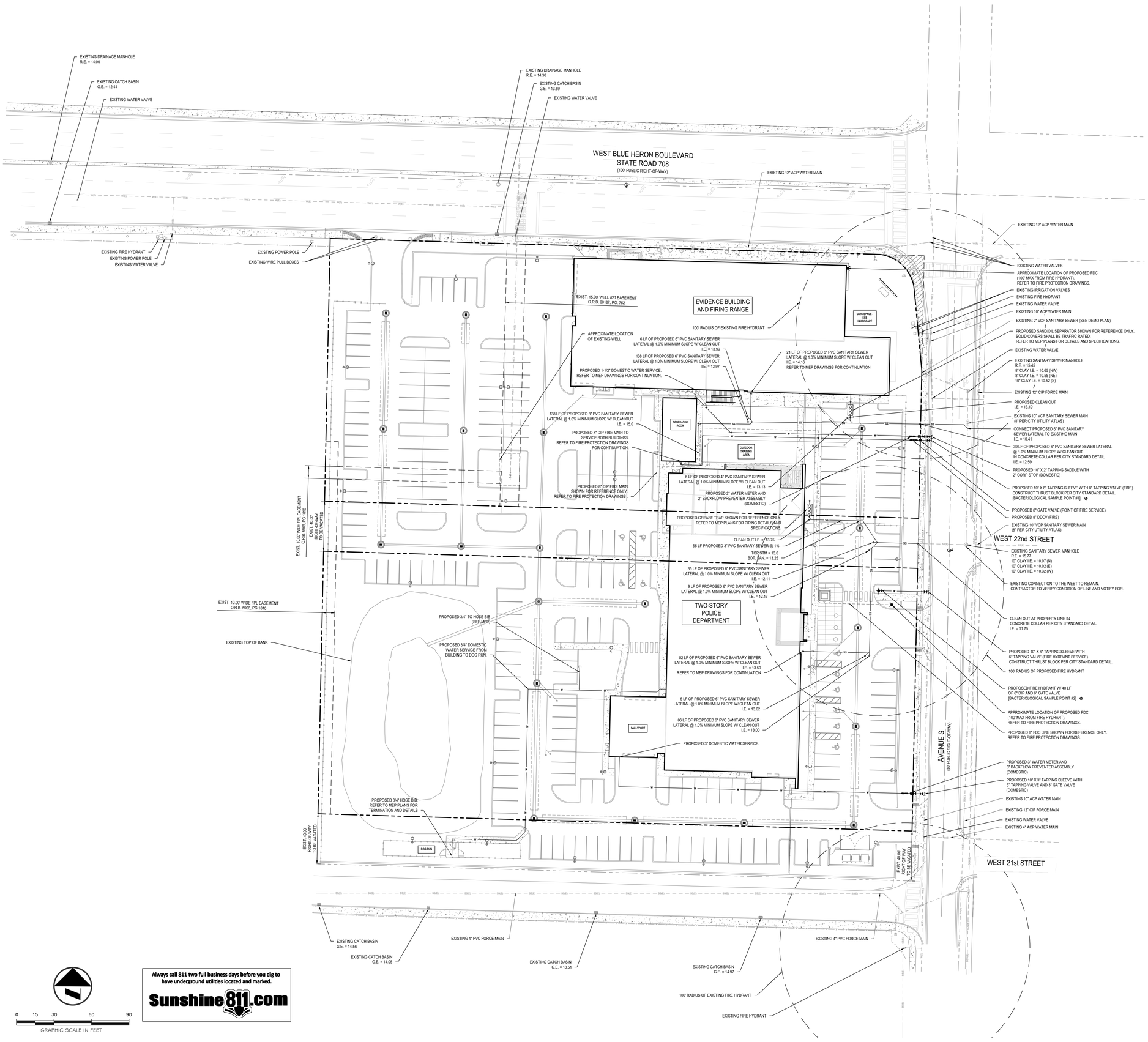
SHEET TITLE

PAVING AND GRADING SECTIONS

SHEET NUMBER

C-3.2



WATER AND SEWER LEGEND

DOUBLE DETECTOR CHECK VALVE	EXIST. SANITARY SEWER MANHOLE
RPZ BACKFLOW PREVENTORS	PROP. SANITARY SEWER MANHOLE
GATE VALVE	PROP. SANITARY CLEAN OUT
METER	PROP. METER VAULT
TEE / TAP	PROP. BACTERIOLOGICAL SAMPLE
FIRE HYDRANT	PROP. REDUCER
FIRE DEPT. CONNECTION	
PROP. PLUG / CAP	

PROP. SANITARY SEWER PIPE — SS — SS —
PROP. WATER PIPE — W — W —
EXIST. WATER PIPE — W(E) — W(E) —
EXIST. SANITARY SEWER PIPE — SS(E) — SS(E) —
EXIST. STORM PIPE — STM(E) — STM(E) —
EXIST. ATT UNDERGROUND — ATT(E) — ATT(E) —
EXIST. BROWARD TRAFFIC COMMUNICATIONS — BCTED(E) —
EXIST. BROWARD FIBER OPTIC — BCTEF(E) —
EXIST. COMCAST UNDERGROUND — COM(E) — COM(E) —
EXIST. ELECTRICAL UNDERGROUND — ELE(E) — ELE(E) —
EXIST. FIBER OPTIC UNDERGROUND — FO(E) — FO(E) —

ABBREVIATIONS

PROP.	PROPOSED
EXIST.	EXISTING
I.E.	INVERT ELEVATION
M.H.	MANHOLE
B.F.P.	BACKFLOW PREVENTOR
G.V.	GATE VALVE
D.D.C.V.	DOUBLE DETECTOR CHECK VALVE
F.D.C.	FIRE DEPT. CONNECTION

EXIST. UNKNOWN UNDERGROUND — UNK(E) — UNK(E) —
EXIST. FPL UNDERGROUND — FPL(E) — FPL(E) —
EXIST. ELECTRICAL UNDERGROUND — ELE(E) — ELE(E) —
EXIST. ATT UNDERGROUND — GAS(E) — GAS(E) —
EXIST. OVERHEAD — OHD — OHD —
EXIST. TELEPHONE UNDERGROUND — TELE(E) — TELE(E) —

SYMBOLS FOR FITTINGS, VALVES, ETC. ARE DIAGRAMMATIC ONLY AND DO NOT REFLECT ACTUAL SIZE; FOR ACTUAL DIMENSIONS REFER TO MANUFACTURER'S SPECIFICATIONS.

UNDERGROUND UTILITIES NOTES:

1. SITE MAY CONTAIN EXISTING UTILITIES (DOMESTIC WATER, IRRIGATION, TELEPHONE, ELECTRIC, GAS, STORM DRAINAGE, SANITARY SEWER AND OTHERS).
2. **NOT ALL** EXISTING UTILITIES ARE SHOWN HEREON. SOME ARE SHOWN ON THIS PLAN AS OBTAINED FROM UTILITY LOCATES, ATLASES AND THE SURVEY.
3. ALL EXISTING UTILITIES WITHIN THE BOUNDARY OF THE SITE ARE TO BE REMOVED - EXCEPT WHERE NOTED OTHERWISE (SUCH AS "TO REMAIN" TO BE RELOCATED" ETC.). THIS PLAN IS LIMITED TO WATER AND SANITARY SEWER ONLY; NO DESIGN OF FPL, COMCAST, GAS, TELEPHONE IS SHOWN HEREON.
4. CONTRACTOR IS RESPONSIBLE FOR SEQUENCING ALL UTILITY REMOVAL/RELOCATION SUCH THAT NO OTHER USER OF SAID IS AFFECTED.

FIRE LINE NOTES:

1. ALL PROPOSED FIRE MAINS, SERVICES, "SIAMESE" CONNECTION LINES ETC. MUST BE INSTALLED BY A STATE LICENSED FIRE LINE CONTRACTOR PER FLORIDA STATUTE 633.
2. ALL FIRE LINES ARE TO BE INSPECTED BY CERTIFIED FIRE LINE INSPECTORS PRIOR TO BEING PLACED INTO SERVICE.
3. UPON COMPLETION OF REQUIRED TESTING A STATE LICENSED FIRE LINE CONTRACTOR SHALL ISSUE A "LICENSED UNDERGROUND TEST CERTIFICATE". THE CERTIFICATE MUST BE ISSUED AND THE FIRE LINE MUST BE ACCEPTED BY THE PALM BEACH COUNTY HEALTH DEPT. (WHERE APPLICABLE) PRIOR TO BEING PLACED INTO SERVICE.
4. FIRE LINE SYSTEM COMPONENTS (FDC, DDCV, FIRE LINE PIPING, ETC.) SHOWN ON THESE PLANS ARE TO BE COORDINATED WITH THE FIRE PROTECTION DRAWINGS AND DESIGN AND FIRE PROTECTION SHOP DRAWINGS. NOTIFY ENGINEER OF ANY DISCREPANCY PRIOR TO INSTALLATION OF ANY PORTION OF THE FIRE PROTECTION SYSTEM.

WATER NOTES

1. NO GATE VALVES IN CURBS.
2. WATER SHALL BE AVAILABLE TO FIRE HYDRANTS BEFORE INTERIOR BUILDING CONSTRUCTION CAN BEGIN.
3. ALL EXISTING WATER SERVICES TO THE PROPERTY THAT ARE NOT BEING RE-USED SHALL BE CUT AND CAPPED AND ABANDONED IN ACCORDANCE WITH THE PUBLIC UTILITY'S MINIMUM STANDARDS.
4. AFTER WATER CONNECTIONS, RESTORE ALL RIGHT OF WAY (PAVEMENT, SIDEWALK, CURB, ETC.) IN ACCORDANCE WITH CITY OF RIVIERA BEACH MINIMUM STANDARDS.
5. ALL ELEVATIONS SHOWN IN THIS PLAN ARE IN THE NAVD DATUM.
6. ALL EXISTING UTILITIES SHOWN ON THIS PLAN ARE BASED ON THE BEST AVAILABLE INFORMATION. THE EXISTING UTILITY INFORMATION SHOWN HERE IS FOR THE CONTRACTOR'S CONVENIENCE AND THE E.O.R. ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. BEFORE COMMENCING CONSTRUCTION CONTRACTOR TO CALL FOR UTILITY LOCATES, VERIFY ALL EXISTING UTILITIES' LOCATIONS AND DEPTHS, AND NOTIFY E.O.R. OF ANY CONFLICTS.

SANITARY SEWER NOTES

1. SLOPE OR PITCH SANITARY SEWER MANHOLE CASTINGS WITH DESIGN ROAD SECTIONS.
2. ALL SANITARY SEWER CLEANOUTS LOCATED IN ROADWAY ARE TO BE TRAFFIC-RATED.
3. ALL EXISTING SANITARY SERVICES TO THE PROPERTY THAT ARE NOT BEING RE-USED SHALL BE CUT AND CAPPED AND ABANDONED IN ACCORDANCE WITH THE PUBLIC UTILITY'S MINIMUM STANDARDS.
4. AFTER SEWER CONNECTIONS, RESTORE ALL RIGHT OF WAY (PAVEMENT, SIDEWALK, CURB, ETC.) IN ACCORDANCE WITH CITY OF RIVIERA BEACH MINIMUM STANDARDS.
5. MANHOLE LIFT HOLES AND GRADE ADJUSTMENT RINGS ARE TO BE SEALED WITH NON-SHRINKING MORTAR OR OTHER APPROPRIATE MATERIAL.
6. INLET AND OUTLET PIPES SHALL BE JOINED TO THE MANHOLE WITH A GASKETED FLEXIBLE WATERTIGHT CONNECTION OR ANOTHER WATERTIGHT CONNECTION ARRANGEMENT THAT ALLOWS DIFFERENTIAL SETTLEMENT OF THE PIPE AND MANHOLE WALL.
7. WATERTIGHT MANHOLE COVERS SHALL BE USED [RSWF 34.6]
8. SANITARY SEWER SERVICES ARE NOT TO BE PLACED INTO OPERATION UNTIL THE OPERATION LICENSE(S) IS OBTAINED FROM THE RELEVANT ISSUING AUTHORITY.
9. ALL ELEVATIONS SHOWN IN THIS PLAN ARE IN THE NAVD DATUM.
10. ALL EXISTING UTILITIES SHOWN ON THIS PLAN ARE BASED ON THE BEST AVAILABLE INFORMATION. THE EXISTING UTILITY INFORMATION SHOWN HERE IS FOR THE CONTRACTOR'S CONVENIENCE AND THE E.O.R. ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. BEFORE COMMENCING CONSTRUCTION CONTRACTOR TO CALL FOR UTILITY LOCATES, VERIFY ALL EXISTING UTILITIES' LOCATIONS AND DEPTHS, AND NOTIFY E.O.R. OF ANY CONFLICTS.

SEWER TESTING NOTES

1. DEFLECTION TEST: TESTING IS REQUIRED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE (AT LEAST 30 DAYS TO PERMIT STABILIZATION OF THE SOIL-PIPE SYSTEM)
   a. NO PIPE SHALL EXCEED A DEFLECTION OF 5%
   b. A RIGID BALL OR MANDREL IS TO BE USED FOR THE DEFLECTION TEST WITH A DIAMETER NOT LESS THAN 95% OF THE BASE INSIDE DIAMETER OR AVERAGE INSIDE DIAMETER OF THE PIPE, DEPENDING ON WHICH IS SPECIFIED IN THE ASTM SPECIFICATION, INCLUDING THE APPENDIX, TO WHICH THE PIPE IS MANUFACTURED
   c. THE TEST IS TO BE PERFORMED WITHOUT A MECHANICAL PULLING DEVICE [RSWF 33.85]
2. LEAKAGE TEST:
   a. THE LEAKAGE EXFILTRATION OR INFILTRATION IS NOT EXCEED 100 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION OF THE SYSTEM
   b. EXFILTRATION OR INFILTRATION TESTS TO BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET
   c. AIR TESTS, AS A MINIMUM, ARE TO CONFORM TO THE TEST PROCEDURE DESCRIBED IN ASTM C-828 FOR CLAY PIPE, ASTM C 924 FOR CONCRETE PIPE, ASTM F-1417 FOR PLASTIC PIPE, AND FOR OTHER MATERIALS APPROPRIATE TEST PROCEDURES. [RSWF 33.93, 33.94, AND 33.95]

0 15 30 60 90
GRAPHIC SCALE IN FEET

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PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
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PGAL PROJECT NUMBER
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BTE PROJECT NUMBER
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BTE ISSUE DATE
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SHEET TITLE
WATER AND SANITARY SEWER PLAN

SHEET NUMBER
C-4

CLIENT
CITY OF RIVIERA BEACH
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Riviera Beach, FL 33404

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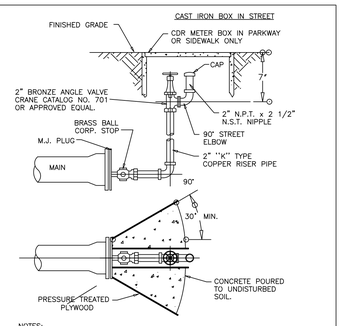
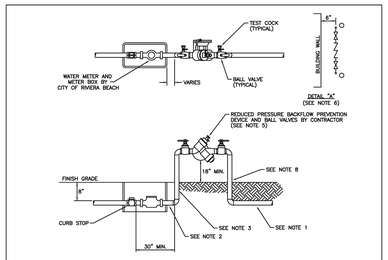


NOTES:
1. PIPE JOINT COMPOUND SHALL BE APPLIED TO MALE THREADS ONLY.
2. COAT ALL EXPOSED THREADS WITH BITUMASTIC BEFORE BACKFILLING.
3. PLYWOOD AND CONCRETE TO HAVE A HEIGHT EQUAL TO THE DIAMETER OF THE PIPE.
4. CONCRETE STRENGTH = 4 KSI @ 28 DAYS.
5. GALVINIZED PIPING AND FITTINGS SHALL NOT BE USED ON TEMPORARY OR PERMANENT BLOWOFFS.

2" TERMINAL BLOWOFF
N.T.S. 05/27/05

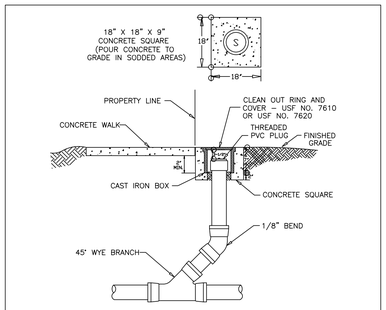
Water & Sewer Details
City of Riviera Beach Utility District



NOTES:
1. TYPE "K" COPPER TUBING (SOFT DRAWN) OR POLYETHYLENE TUBING SDR 9 COPPER TUBE SIZE.
2. IF THIS DISTANCE IS LESS THAN 3 FEET ONLY COPPER TUBING SHALL BE PERMITTED.
3. 3/4"–2" BOTH RISERS SHALL BE TYPE "K" COPPER TUBING (HARD DRAWN) WITH COPPER/BRASS SOLDER FITTINGS AND ADAPTERS. ONLY LEAD FREE SOLDER AND FLUX SHALL BE PERMITTED.
4. BOTH 1 1/2" AND 2" ANGLE METER STOPS SHALL BE EQUIPPED WITH LOCKING CAPS AND METER FLANGES.
5. ALL BACKFLOW PREVENTION DEVICES ASSEMBLY MUST BE USC APPROVED.
6. WHEN THE DEVICE IS INSTALLED PARALLEL TO A BUILDING WALL THERE SHALL BE A MIN. OF 6" BETWEEN THE EDGE OF THE DEVICE AND THE BUILDING WALL.
7. 2 1/2 "–10" THE RPZ BACKFLOW PREVENTION ASSEMBLY MUST BE INSTALLED DOWNSTREAM OF THE WATER SERVICE METER 18"–24" ABOVE FINISHED GRADE ON NON–GALVANIZED METAL PIPE. WORK DONE ON THIS DEVICE MUST BE PERFORMED BY A CERTIFIED BACKFLOW TECHNICIAN AND TEST REPORTS MUST BE SUBMITTED TO THE CITY OF RIVIERA BEACH – UTILITY DISTRICT.

RPZ BACKFLOW PREVENTION DEVICE
05/27/05

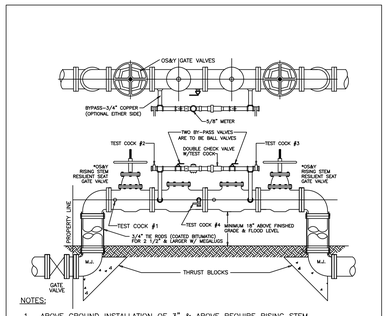
Water & Sewer Details
City of Riviera Beach Utility District



NOTES:
1. CLEAN OUTS TO BE LOCATED IN GRASS WHENEVER POSSIBLE.
2. CLEANOUTS SHALL NOT BE INSTALLED IN TRAFFIC LANES OR AREAS UNDER HEAVY TRAFFIC LOADS.
3. THE COVER TO BE MARKED "S".
4. CLEANOUTS TO BE INSTALLED PRIOR TO WATER METER RELEASE.
5. NO 90 BENDS SHALL BE USED FOR CLEANOUT INSTALLATION.

CLEAN OUT AT PROPERTY LINE
N.T.S. 05/27/05

Water & Sewer Details
City of Riviera Beach Utility District



NOTES:
1. ABOVE GROUND INSTALLATION OF 3" & ABOVE REQUIRE RISING STEM O.S. & Y. RESILIENT SEAT GATE VALVES WITH TEST COCKS.
2. INSTALLATION AND CERTIFICATION REQUIRED BY A CERTIFIED BACKFLOW TECHNICIAN PRIOR TO ACCEPTANCE.
3. AN RPZ BACKFLOW PREVENTION ASSEMBLY MUST BE INSTALLED DOWNSTREAM OF THE DOMESTIC AND IRRIGATION METER, 18" – 24" ABOVE FINISHED GRADE ON NON–GALVANIZED METALLIC PIPE. WORK DONE ON THIS DEVICE IS TO BE PERFORMED BY A CERTIFIED BACKFLOW TECHNICIAN AND TEST REPORTS MUST BE SUBMITTED TO THE CITY OF RIVIERA BEACH – UTILITY DISTRICT.

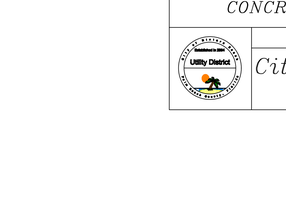
DOUBLE DETECTOR CHECK ASSEMBLY & METER INSTALLATION SIZES: 3",4",6",8",10"
N.T.S. 05/27/05

Water & Sewer Details
City of Riviera Beach Utility District

NOTES:
1. DO NOT REMOVE TEMPORARY CONNECTION AT CORPORATION STOPS ON NEW MAIN UNTIL FILLING AND FLUSHING AND TESTING HAS BEEN COMPLETED.
2. PLUG CORPORATION STOP WITH A P.V.C. PLUG WHEN ABANDONED.
3. PROVIDE ALL NECESSARY THRUST BLOCKS AND/OR OTHER RESTRAINTS.
4. THIS IS THE ONLY FLUSHING METHOD APPROVED BY THE CITY OF RIVIERA BEACH UTILITY DISTRICT. SINCE OTHER METHODS DO NOT REMOVE LARGE OBJECTS SUCH AS ROCKS, CANS, BOTTLES AND OTHER DEBRIS FROM MAINS, ALL FIRE HYDRANTS AND DETECTOR CHECK VALVES MUST BE INSPECTED AND TESTED TO ASSURE NO SUCH FOREIGN OBJECTS ARE IN THE FIRE FLOW.
5. THE GENERAL CONTRACTOR MUST RENT A FIRE HYDRANT METER FROM THE CITY OF RIVIERA BEACH UTILITY DISTRICT FOR USE OF POTABLE WATER FROM A CITY OWNED SOURCE.

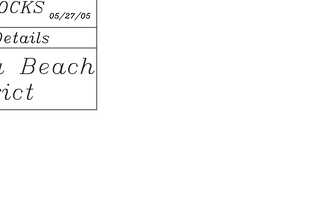
FILLING & FLUSHING DETAIL
N.T.S 05/26/05

Water & Sewer Details
City of Riviera Beach Utility District



SAMPLE POINT (HYDRANT)
N.T.S. 05/27/05

Water & Sewer Details
City of Riviera Beach Utility District

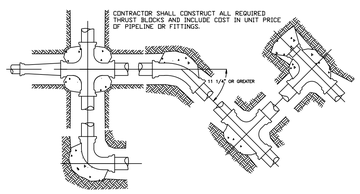


NOTE:
WHENEVER POSSIBLE, SERVICE TAPS SHALL BE USED AS SOMPLE POINTS.

SAMPLE POINT (ON MAIN)
N.T.S. 05/31/05

Water & Sewer Details
City of Riviera Beach Utility District

TYPICAL LOCATIONS WHICH REQUIRE CONCRETE REACTION (THRUST) BLOCKS, FOR PRESSURE MAINS 4"SIZE AND GREATER CONCRETE SHALL HAVE 2500 PSI MINIMUM STRENGTH AT 28 DAYS AND BEAR AGAINST UNDISTURBED STABLE SOILS. AREA OF CONTACT SHALL BE GOVERNED BY PIPE SIZE, MAX. PRESSURE IN PIPE AND BEARING CAPACITY OF SOIL.



PIPE	THRUST BLOCK AREA REQ'D	PIPE	THRUST BLOCK AREA REQ'D	REMARKS
4"	2.0 SQ. FT.	18"	30.0 SQ. FT.	VALUES ARE FOR 90° BEND, BASED ON 2000 PSF SAFE BEARING LOAD AND PIPE PRESSURE OF 200 PSI AND A SAFETY FACTOR OF 1.5. FOR OTHER SOILS & PRESSURES THE AREA REQUIRED IS IN DIRECT PROPORTION
6"	4.0 SQ. FT.	20"	37.0 SQ. FT.	
8"	6.6 SQ. FT.	24"	53.0 SQ. FT.	
10"	10.0 SQ. FT.	27"	80.0 SQ. FT.	
12"	14.0 SQ. FT.	30"	98.0 SQ. FT.	
14"	18.6 SQ. FT.	36"	127.0 SQ. FT.	
16"	24.0 SQ. FT.			

NOTE: FOR OTHER FITTINGS USE FOLLOWING FACTORS

TEE 100%
45° BEND 76%
22 1/2° BEND 39%
11 1/4° BEND 20%
DEAD END 100%

CONCRETE THRUST BLOCKS
N.T.S. 05/27/05

Water & Sewer Details
City of Riviera Beach Utility District

CLIENT

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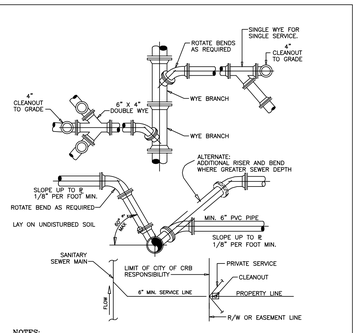
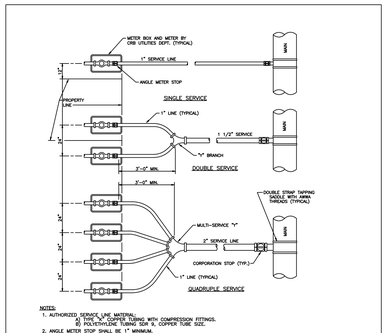
SHEET NUMBER
C-4.1



NOTES:
1. SERVICE LATERALS SHALL TERMINATE AT PROPERTY LINE AT A DEPTH OF 3 FEET.
2. CLEANOUT CONNECTION TO BE EXTENDED 3 FEET ABOVE GRADE PRIOR TO WATER METER INSTALLATION.
3. CLEANOUTS ARE TO BE SET TO GRADE PRIOR TO WATER METER ACTIVATION.
4. NO 90° BENDS SHALL BE PERMITTED FOR SEWER SERVICE AND CLEANOUT INSTALLATION.

TYPICAL LATERAL CONNECTIONS 5/27/05
N.T.S.

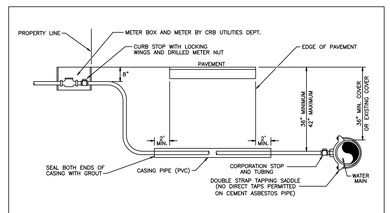
Water & Sewer Details
City of Riviera Beach Utility District



NOTES:
1. AUTHORIZED SERVICE LINE MATERIAL
   a) POLYETHYLENE TUBING WITH COMPRESSION FITTINGS.
   b) POLYETHYLENE TUBING SDR 9, COPPER TUBE SIZE.
2. ANGLE METER STOP SHALL BE 1" MINIMUM.
3. 1" ANGLE METER STOPS WITH 3/4" VALVES SHALL NOT BE PERMITTED.
4. MULTIPLE SERVICE/METER INSTALLATIONS OF MORE THAN 4 METERS PER SERVICE AND SERVICE LINES LARGER THAN 2" DIAMETER SHALL BE HANDLED ON AN INDIVIDUAL BASIS.
5. ANGLE METER STOPS 1 1/2" AND 2" IN SIZE SHALL BE PROVIDED WITH BOTH A LOCKING CAP AND METER FLANGE.
6. NO FITTINGS BETWEEN CORP STOP AND ANGLE METER STOP ALLOWED WHEN USING POLYETHYLENE TUBING.

TYPICAL WATER SERVICES
N.T.S
05/27/05

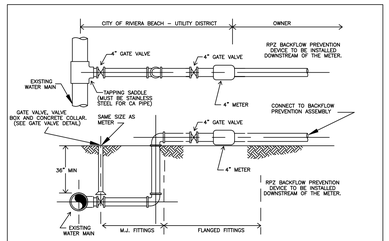
Water & Sewer Details
City of Riviera Beach Utility District



NOTES:
1. CASINGS SHALL BE REQUIRED FOR ALL LONG SIDE SERVICES.
2. SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED A MINIMUM OF 18" OFFSET.
3. WHERE NO SIDEWALK EXISTS, METER BOXES SHALL BE SET TO CONFORM TO FINISH GRADE.
4. COPPER TUBING SHALL BE TYPE "K" WITH COMPRESSION FITTINGS.
5. USE EMS MARKER #1252 COLOR BLUE DIRECTLY OVER THE CORPORATION STOP.
6. ALL SERVICE LINES SHALL BE EQUIPED WITH A CORPORATION STOP AT THE MAIN AND A CURB STOP (LOCKING CONNECTION TYPE) AT THE METER.
7. THE COPPER SERVICE LINE SHALL BE CONTINOUS FROM CORPORATION STOP TO CURB STOP WITH NO FITTINGS IN BETWEEN.
8. TAPPING SADDLES AND CORPORATION STOPS SHALL HAVE AWWA INLET THREADS.
9. ALL EXPOSED FITTINGS TO BE COATED WITH COLA TAR EPOXY.
10. GALVANIZED CASING REQUIRED FOR ANY INSTALLATION REQUIRING A JACK AND BORE, SCH. 40 PVC MAY BE USED FOR AN OPEN CUT INSTALLATION WITH THE APPROVAL OF THE CRB UTILITIES DEPT. CASING SHOULD EXTEND TWO (2) FEET BEYOND EDGE OF PAVEMENT AND SIZED AS FOLLOWS:
    A.) 1" SERVICE USE 2" CASING
    B.) 1 1/2" SERVICE USE 3" CASING
    C.) 2" SERVICE USE 4" CASING

3/4" – 2" TYPICAL WATER SERVICE INSTALLATION
N.T.S. 05/27/05

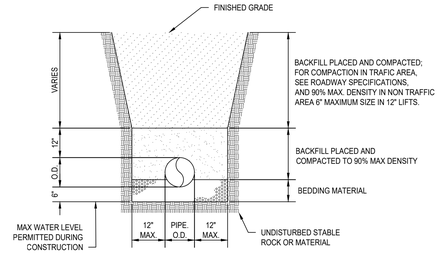
Water & Sewer Details
City of Riviera Beach Utility District



NOTES:
1. ALL SERVICE PIPING SHALL BE DI PIPE THE SAME SIZE AS METER.
2. ALL FITTINGS FLANGED WITH MEGALUGS OR EQUAL.
3. METER SERVICE SHALL NOT BE INSTALLED UNTIL:
   A – FORM BOARDS FOR DRIVEWAY AND/OR SIDEWALK ARE IN PLACE, OR – DRIVEWAY OR SIDEWALK IS IN PLACE, OR – "FINISHED GRADE" STAKE IS SET ADJACENT TO PROPOSED METER BOX LOCATION.
   B – THE REQUIRED BACKFLOW PREVENTION DEVICE IS INSTALLED.
4. INSTALLATION OF THE DOMESTIC SERVICE METER AND METER BOX WILL BE PERFORMED BY THE CITY OF RIVIERA BEACH–UTILITY DISTRICT.
   THE DOMESTIC TAP ON TH EXISTING MAIN HAS TO BE DONE BY THE CONTRACTOR
   IF THE TAP IS 4 " AND ABOVE ,THE OWNER SHALL BE RESPONSIBLE FOR
   ALL INSTALLATION AND MAINTAINANCE DOWNSTREAM OF THE DOMESTIC METER.

3",4",6",8",10" WATER METER DETAIL
N.T.S 5/26/05

Water & Sewer Details
City of Riviera Beach Utility District



NOTES:
1. WHERE SOIL CONDITION CANNOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE APPROVED MEANS OF CONSTRUCTION.,
2. WHERE REQUIRED, SHEETING AND SHORING SHALL BE IN ACCORDANCE WITH THE LOCAL GOVERNMENTAL AGENCY.
3. MUCH OR OTHER UNSUITABLE MATERIAL SHALL BE COMPLETELY REMOVED.
4. WHEN THE PIPE IS LAID IN THE PREPARED TRENCH, TRUE TO LINE AND GRADE, THE PIPE BARREL SHALL RECEIVE CONTINUOUS UNIFORM SUPPORT.
5. JOINTS MAY BE REQUIRED TO BE WRAPPED AT THE DISCRETION OF THE DISTRICT AND THE SITE CONDITIONS.
6. BACKFILL MATERIAL SHALL BE NON-COHESIVE AND NON-PLANSTIC SOIL THAT IS FREE OF ALL DEBRIS, LUMPS, WOOD, BROKEN PAVING OR ANY ORGANIC OR UNSUITABLE MATERIAL. BACKFILL MATERIAL PLACED WITHIN 12" OF THE PIPE SHALL CONTAIN NO ROCKS OR STONES LARGER THAN 3 1/2" IN DIAMETER. NO ROCKS OR STONES LARGER THAN 6" IN DIAMETER WILL BE PERMITTED IN THE REMAINING BACKFILL UNLESS OTHERWISE SPECIFIED.
7. TRENCH BACKFILL SHALL BE COMPACTED TO NOT LESS THAN 90% OF THE MAXIMUM DRY DENSITY DETERMINED BY AASHTO T-180. BACKFILL AND COMPACTION SHALL BE IN ACCORDANCE TO THE STANDARD ENGINEERING DESIGN REQUIRED BY THE LOCAL GOVERNMENTAL AGENCY.

TRENCH EXCAVATION DETAIL
NTS

CLIENT

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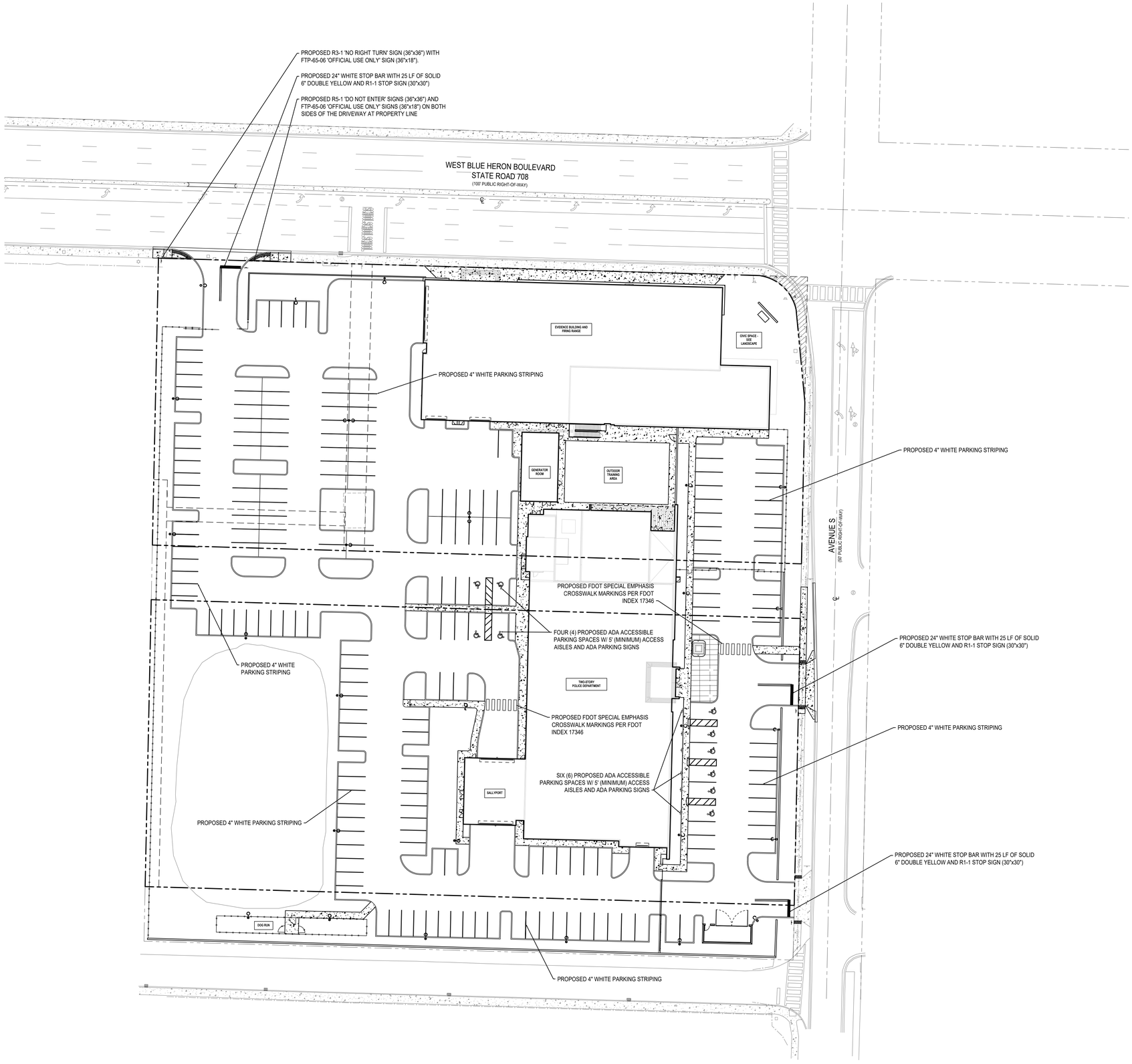

PAVEMENT MARKING & SIGNAGE NOTES:

1. ALL PAVEMENT MARKING & SIGNAGE TO BE IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) (LATEST EDITION), FDOT STANDARDS (LATEST EDITION).
2. ALL PAVEMENT MARKINGS IN OR ADJACENT TO THE PUBLIC RIGHT OF WAY ARE TO BE ALKYD BASED THERMOPLASTIC AND FULLY RETROREFLECTORIZED.
3. PAVEMENT MARKING SHALL BE UNIFORM ACROSS THE ENTIRE STRIPE AND HAVE A MINIMUM RETROREFLECTIVITY OF 250 MILLICANDELAS FOR WHITE AND 175 FOR YELLOW.
4. ALL PAVEMENT MARKINGS ON PAVER SYSTEMS SHALL BE 3M 380/381 SERIES TAPE AND APPLIED WITH P60 ADHESIVE AS PER MANUFACTURER'S SPECIFICATIONS.
5. FDOT APPROVED SEALER SHALL BE USED WHEN APPLYING MARKINGS ON CONCRETE.
6. EXISTING MARKINGS SHALL BE REMOVED BY SANDBLASTING ONLY.
7. ALL REGULATORY SIGNS SHALL BE TYPE XI SHEETING MATERIAL.
8. SEE FDOT INDEX NO. 706 FOR PLACEMENT OF RPM's. (FOR BULLNOSE RPM TREATMENT, SEE LEGEND NO. 1).
9. RPM's SHALL BE CLASS "B" 911 OR EQUIVALENT, APPLIED WITH EPOXY OR BITUMINOUS ADHESIVE.
10. ALL STOP BARS TO BE 4' BEHIND CROSSWALK OR SIDEWALK.

0 15 30 60 90
GRAPHIC SCALE IN FEET

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SEAL

DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
	10/14/2025	90% Construction Documents/Permit Set

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S
RIVIERA BEACH, FL 33404

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

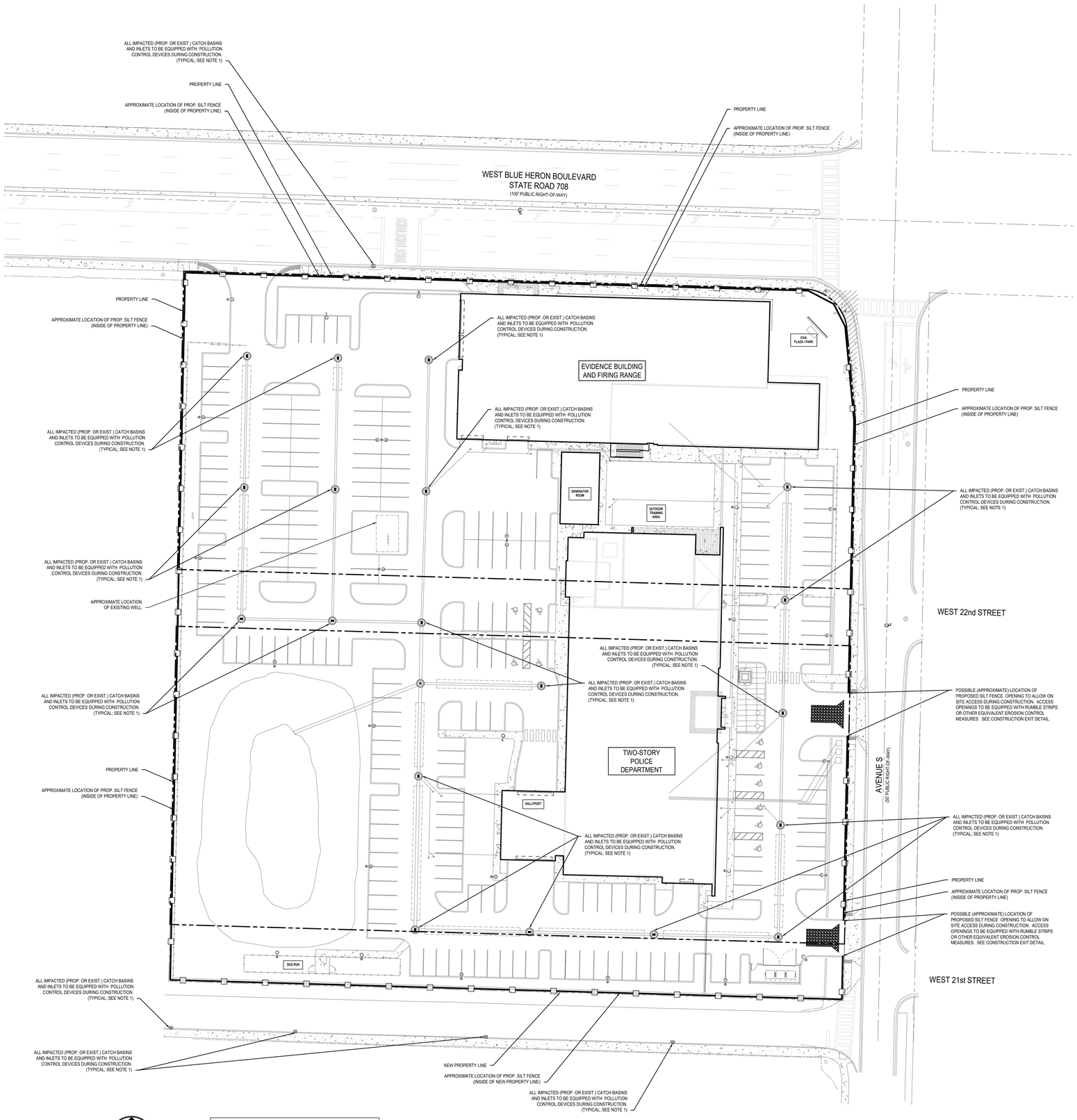
PGAL PROJECT NUMBER
1007657.00

BTE PROJECT NUMBER
24-0504

BTE ISSUE DATE
10-14-2025

SHEET TITLE
PAVEMENT MARKING AND SIGNAGE PLAN

SHEET NUMBER
C-5



0 15 30 60 90

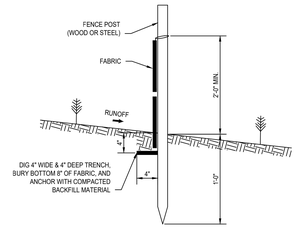
GRAPHIC SCALE IN FEET

Always call 811 two full business days before you dig to have underground utilities located and marked.

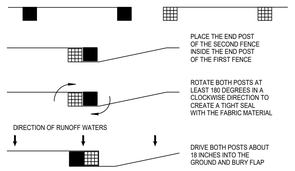
Sunshine811.com

POLLUTION CONTROL NOTES:

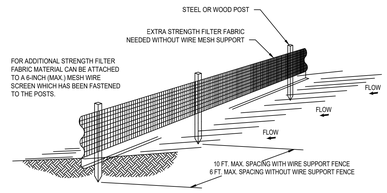
1. ALL DRAINAGE INLETS IMPACTED BY THIS PROJECT DURING CONSTRUCTION TO BE EQUIPPED WITH FILTER FABRIC AND/OR APPROVED EQUIVALENT OVER GRATES PER DETAIL THIS SHEET. CURB INLETS TO BE EQUIPPED WITH CURB INLET POLLUTION CONTROL DEVICES.
2. SILT FENCES SHALL BE INSTALLED AS NECESSARY TO CONTROL OR PREVENT OFF-SITE DISCHARGE OF SEDIMENT.
3. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE STABILIZED WITHIN A REASONABLE PERIOD OF TIME TO ASSURE MINIMUM EROSION OF SOILS.
4. CONTRACTOR TO COMPLY WITH TERMS AND CONDITIONS OF NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT.
5. CONTRACTOR TO PROVIDE FOR TRUCK WASH DOWN AREA AT ALL TEMPORARY AND PERMANENT ENTRANCES/EXITS DURING CONSTRUCTION.



SILT FENCE SECTION
NOT TO SCALE



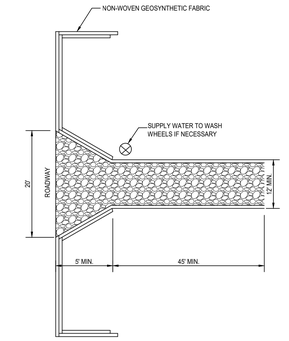
ATTACHING TWO SILT FENCES
NOT TO SCALE



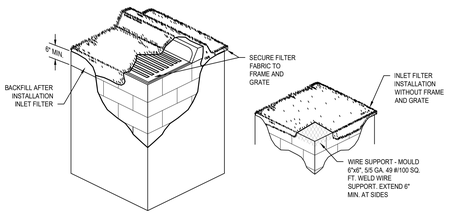
NOTES:

1. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES (90 CM).
2. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS.
3. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET (3 M) APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12 INCHES (30 CM). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET (1.8 M).
4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES (10 CM) WIDE AND 4 INCHES (10 CM) DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
5. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH (25 MM) LONG, TIE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES (5 CM) AND SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGINAL GROUND SURFACE.
6. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES (20 CM) OF THE FILTER FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGINAL GROUND SURFACE.
7. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.

SILT FENCE INSTALLATION DETAIL



STABILIZED CONSTRUCTION EXIT
NTS



NOTES:

1. CONTRACTOR IS TO CLEAN INLET FILTER AFTER EVERY STORM.
2. CONTRACTOR TO REMOVE FABRIC JUST PRIOR TO PAVING.
3. A SEDIMENT TRAP WILL BE EXCAVATED BEHIND THE CURB AT THE INLET. THE BASIN SHALL BE AT LEAST 12 TO 14" IN DEPTH. APPROXIMATELY 36" IN WIDTH, AND APPROXIMATELY 7 TO 10 FEET IN LENGTH PARALLEL TO THE CURB.
4. STORM WATE WILL REACH THE SEDIMENT TRAP VIA CURB CUTS ADJACENT TO EACH SIDE OF THE INLET STRUCTURE. THESE OPENINGS SHALL BE AT LEAST 12 INCHES IN LENGTH. STORM WATER MAY ALSO REACH THE BASIN VIA OVERLAND FLOW LAND AREA BEHIND THE CURB. THE CUR B CUTS SHALL BE REPAIRED WHEN THE SEDIMENT TRAP IS REMOVED.

INLET FILTER DETAIL
NTS

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ARCHITECT

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PROJECT LOCATION
2121 AVENUE S
RIVIERA BEACH, FL 33404

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

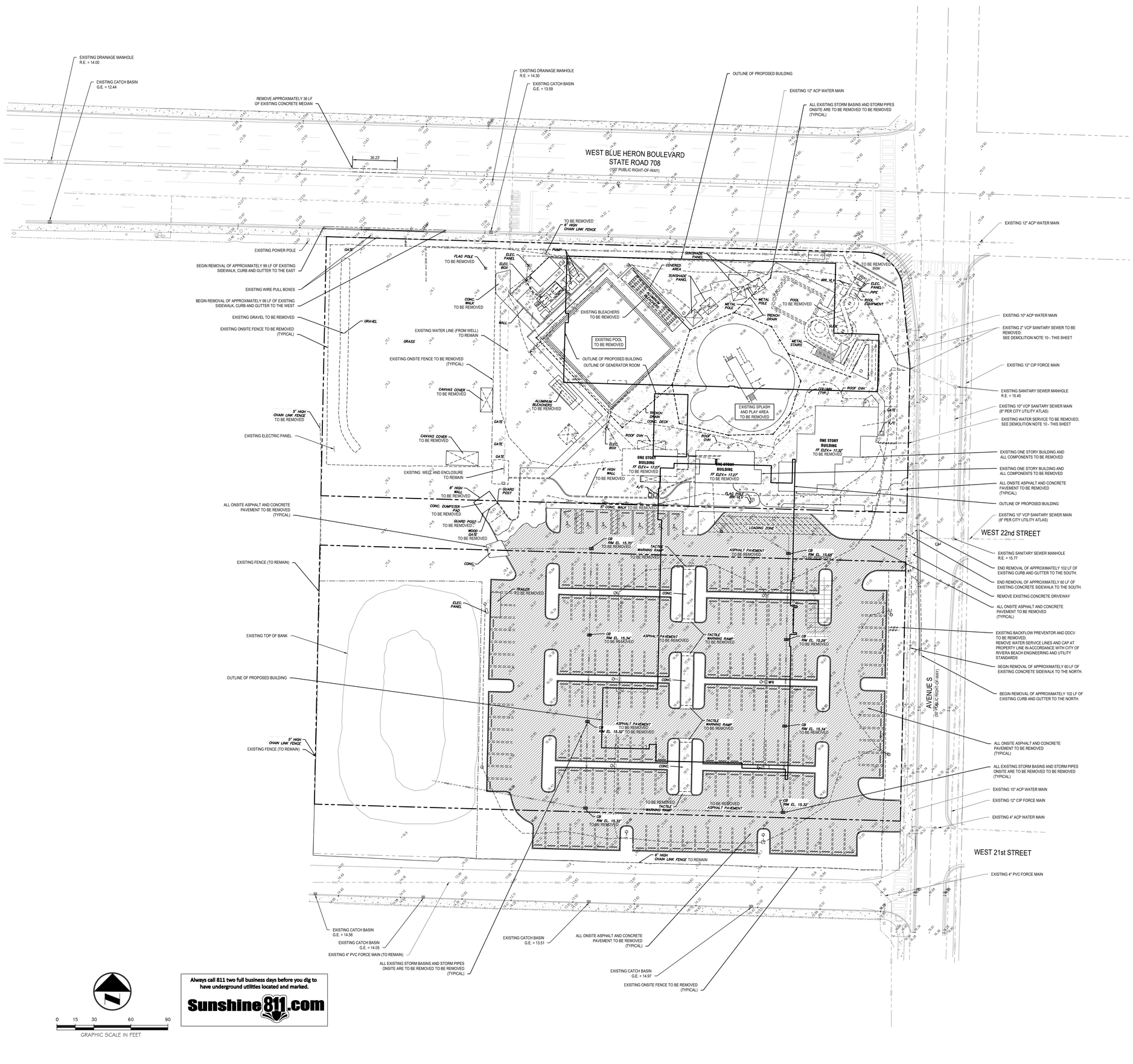
PGAL PROJECT NUMBER
1007657.00

BTE PROJECT NUMBER
24-0504

BTE ISSUE DATE
10-14-2025

SHEET TITLE
POLLUTION AND EROSION CONTROL PLAN

SHEET NUMBER
C-6



DEMOLITION LEGEND

PROPERTY or R/W LINE

UTILITY DEMOLITION

DEMOLITION

FEATURE TO BE DEMOLISHED (CURB, SIDEWALK, PAVER, ETC.)

ABBREVIATIONS

PROP.	PROPOSED
EXIST.	EXISTING
I.E.	INVERT ELEVATION
M.H.	MANHOLE
C.B.	CATCH BASIN
D.W.	DRAINAGE WELL
R.E.	RIM ELEVATION
G.E.	GRATE ELEVATION

DEMOLITION NOTES:

1. CONTRACTOR SHALL SECURE ALL APPLICABLE PERMITS FOR DEMOLITION OF THE SITE PRIOR TO MOBILIZATION.
2. CONTRACTOR SHALL OBTAIN UNDERGROUND UTILITY LOCATIONS PRIOR TO BEGINNING WORK. RELOCATIONS SHALL BE OBTAINED WHEN THE INITIAL LOCATIONS EXPIRE.
3. ALL CAPPING SHALL BE INSPECTED AND APPROVED BY THE PUBLIC UTILITY OWNING THE LINES.
4. ALL PREMISES AND EXTERIOR PROPERTY LINES SHALL BE PROTECTED AGAINST DEBRIS FALLING OVER THE PROPERTY LINES.
5. ALL APPLICABLE ORDINANCES SHALL BE FOLLOWED AS THEY RELATE TO AIR, NOISE AND WATER RUNOFF FROM THE SITE. (I.E. ALL RUBBLE SHALL BE WATERED CONTINUOUSLY TO CONTROL DUST AND FLYING DEBRIS.)
6. WHEN PLUGGING EXISTING SEWER SERVICES, CONTRACTOR SHALL FORWARD AS-BUILT PLANS PREPARED BY A LICENSED SURVEYOR AT THE CONTRACTORS EXPENSE FOR REVIEW AND APPROVAL BY THE CITY AND/OR ENGINEER. VERIFY HORIZONTALLY AND VERTICALLY.
7. CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES PRIOR TO MOBILIZATION. CONTRACTOR SHALL NOTIFY E.O.R. WHEN MEASURES ARE INSTALLED TO ALLOW ENGINEER TO INSPECT AND APPROVE OF METHODS PRIOR TO BEGINNING DEMOLITION OPERATION.
8. CONTRACTOR SHALL VISIT THE SITE TO VERIFY THE SCOPE OF THIS PROJECT. ANY ABOVE GROUND ITEMS ON THE SITE BUT NOT SHOWN SHALL BE INCLUDED IN THE BID.
9. ASPHALT, PAVERS, AND ROCK TO BE REMOVED AND DISPOSED OF PROPERLY.
10. EXISTING SANITARY SEWER SERVICES HAVE NOT BEEN LOCATED BUT ARE TO BE REMOVED AND CAPPED AT THE ROW LINE PER CITY OF RIVIERA BEACH STANDARDS.

GENERAL NOTES:

1. THIS PLAN IS TO DEPICT PROPOSED SITE (WATER, SANITARY, STORM, ASPHALT, CURB, ETC.) DEMOLITION ONLY. FRANCHISED UTILITIES (OVERHEAD AND UNDERGROUND) ARE TO BE COORDINATED BY THE CONTRACTOR (SEE NOTE #5) AND ARE NOT INCLUDED IN THIS SCOPE.
2. REFER TO CIVIL ENGINEERING PLANS FOR MORE DIRECTION ON UTILITY DEMOLITION, RELOCATION AND/OR ABANDONMENT INFORMATION AND DETAILS.
3. REFER TO BUILDING DEMOLITION PLANS FOR BUILDING DEMOLITION INFORMATION.
4. REFER TO TREE DISPOSITION PLAN FOR ANY LANDSCAPING DEMOLITION.
5. CONTRACTOR IS VERIFY THAT ALL SERVICES TO THE SITE HAVE BEEN DISCONTINUED AND THEY ARE RESPONSIBLE FOR OBTAINING ALL UTILITY COMPANY RELEASES (FPL, BELLSOUTH, COMCAST, ETC.) PRIOR TO BEGINNING DEMOLITION.
6. ALL SERVICES TO ADJACENT PROPERTIES NOT SCHEDULED FOR DEMOLITION ARE TO REMAIN.
7. ALL EXISTING UTILITIES SHOWN ON THIS PLAN ARE BASED ON THE BEST AVAILABLE INFORMATION. THE EXISTING UTILITY INFORMATION SHOWN HERE IS FOR THE CONTRACTOR'S CONVENIENCE AND THE E.O.R. ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. BEFORE COMMENCING CONSTRUCTION CONTRACTOR TO CALL FOR UTILITY LOCATES, VERIFY ALL EXISTING UTILITIES' LOCATIONS AND DEPTHS, AND NOTIFY E.O.R. OF ANY CONFLICTS.

0 15 30 60 90

GRAPHIC SCALE IN FEET

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CLIENT

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RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

2121 AVENUE S
RIVIERA BEACH, FL 33404

PROJECT STATUS

90% CONSTRUCTION DOCUMENTS/PERMIT SET

PGAL PROJECT NUMBER

1007657.00

BTE PROJECT NUMBER

24-0504

BTE ISSUE DATE

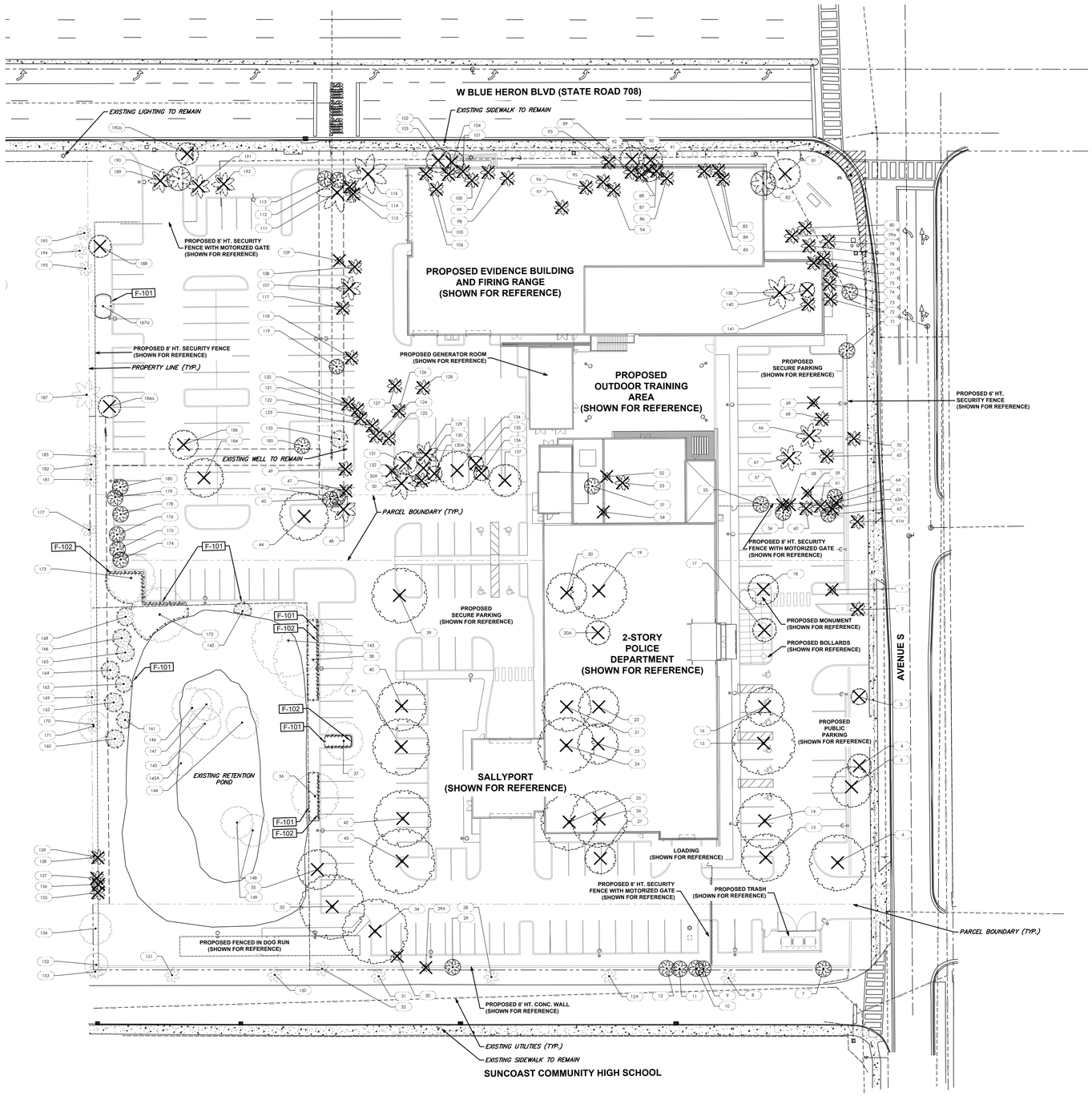
10-14-2025

SHEET TITLE

SITE DEMOLITION PLAN

SHEET NUMBER

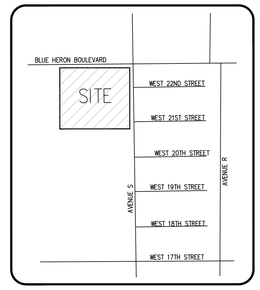
C-7



GRAPHIC SCALE

0 15 30 40

1 INCH = 30 FEET



LOCATION MAP
N.T.S.

LEGEND

SYMBOL	DESCRIPTION
	EXISTING TREE OR PALM TO BE REMOVED
	EXISTING TREE OR PALM TO REMAIN
	EXISTING TREE OR PALM TO BE RELOCATED
#	TREE OR PALM ID NUMBER

REFERENCE NOTES SCHEDULE

CODE	DESCRIPTION	QTY
FENCE		
F-101	TREE PROTECTION FENCING	733 LF
F-102	TREE/PALM ROOT PRUNE	180 LF

GENERAL NOTE:

1. Contractor to clear and grub all shrub/groundcover material within limits of property that is not shown on plan.

Sunshine811

Call 811 or visit sunshine811.com two full business days before digging to have buried facilities located and marked.

Check positive response codes before you dig!

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)

90% CONSTRUCTION DOCUMENTS

FILE NAME:
DATE STAMP:

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CLIENT

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REGISTRATION

ERIC DOUGLAS HARRISON
No. 6667129
STATE OF FLORIDA
LANDSCAPE ARCHITECT

DRAWING HISTORY

№	DATE	DESCRIPTION
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PROJECT STATUS

90% CONSTRUCTION DOCUMENTS

DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL
33404

PROJECT NUMBER

1007657.00

SHEET TITLE

TREE DISPOSITIOI PLAN

SHEET NUMBER

TD-1

1 11

EXISTING TREE INVENTORY/DISPOSITION CHART

Tree ID	Common Name	Scientific Name	DBH Removed (in)	Multi Trunk	Height (ft)	Clear Trunk Height	Spread (ft)	Disposition	Condition Rating	Observation 1
1	Coconut Palm	*Cocos nucifera*				18	5	Remove	Fair (41% to 60%)	Cat 2 Invasive, Over-Pruned
2	Coconut Palm	*Cocos nucifera*				18	10	Remove	Fair (41% to 60%)	Cat 2 Invasive, Over-Pruned
3	Laurel Oak	*Quercus laurifolia*	5		10		10	Remove	Poor (21% to 40%)	Pruned Into Shrub
4	Laurel Oak	*Quercus laurifolia*	7		15		15	Remove	Poor (21% to 40%)	Girdling Roots
5	Carrotwood	*Cupaniopsis anacardioides*			20		25	Remove	Fair (41% to 60%)	Cat 1 Invasive, Basal Codominant/Included Bark
6	Green Buttonwood	*Conocarpus erectus*	33	Yes	20		35	Remove	Fair (41% to 60%)	Basal Codominant/Included Bark - Multi
7	Cabbage Palm	*Sabal palmetto*				9	10	Relocate	Good (61% to 80%)	
8	Cabbage Palm	*Sabal palmetto*				15	10	Remain	Good (61% to 80%)	
9	Cabbage Palm	*Sabal palmetto*				10	10	Relocate	Good (61% to 80%)	Vine Cover (Heavy)
10	Cabbage Palm	*Sabal palmetto*				10	10	Relocate	Good (61% to 80%)	
11	Cabbage Palm	*Sabal palmetto*				11	10	Relocate	Good (61% to 80%)	
12	Cabbage Palm	*Sabal palmetto*				15	10	Relocate	Good (61% to 80%)	
12A	Cabbage Palm	*Sabal palmetto*			18	12	12	Remain		
13	Live Oak	*Quercus virginiana*	12		25		30	Remove	Fair (41% to 60%)	Constricted Roots
14	Live Oak	*Quercus virginiana*	17		25		35	Remove	Poor (21% to 40%)	Constricted Roots, Root Damage (Moderate)
15	Live Oak	*Quercus virginiana*	18		28		40	Remove	Fair (41% to 60%)	Girdling Roots
16	Live Oak	*Quercus virginiana*	16		25		25	Remove	Fair (41% to 60%)	Constricted Roots, Girdling Roots
17	Live Oak	*Quercus virginiana*	8		20		15	Remove	Fair (41% to 60%)	Plunged
18	Live Oak	*Quercus virginiana*	8		20		20	Remove	Fair (41% to 60%)	Plunged
19	Live Oak	*Quercus virginiana*	18		30		35	Remove	Fair (41% to 60%)	Constricted Roots
20	Live Oak	*Quercus virginiana*	15		25		25	Remove	Fair (41% to 60%)	Girdling Roots
20A	Live Oak	*Quercus virginiana*	7		15		15	Remove	Fair (41% to 60%)	
21	Live Oak	*Quercus virginiana*	13		25		30	Remove	Good (61% to 80%)	Codominant Leaders - Multi
22	Live Oak	*Quercus virginiana*	13		25		25	Remove	Fair (41% to 60%)	Girdling Roots
23	Live Oak	*Quercus virginiana*	13		25		25	Remove	Fair (41% to 60%)	Constricted Roots
24	Live Oak	*Quercus virginiana*	14		30		35	Remove	Good (61% to 80%)	Included Branches
25	Live Oak	*Quercus virginiana*	15		30		35	Remove	Fair (41% to 60%)	Leaning (Minor)
26	Live Oak	*Quercus virginiana*	16		30		35	Remove	Fair (41% to 60%)	Constricted Roots, Root Damage
27	Live Oak	*Quercus virginiana*	9		20		20	Remove	Good (61% to 80%)	Codominant Leaders/No Included Bark
28	Cabbage Palm	*Sabal palmetto*				15	10	Remain	Good (61% to 80%)	
29	Cabbage Palm	*Sabal palmetto*				12	10	Relocate	Good (61% to 80%)	
29A	Cabbage Palm	*Sabal palmetto*	2		4	2	5	Remove	Fair (41% to 60%)	
30	Glaucous Cassia	*Senna surattensis*	8	Yes	5		5	Remove	Poor (21% to 40%)	Topped
31	Cabbage Palm	*Sabal palmetto*				15	10	Remain	Good (61% to 80%)	
32	Cabbage Palm	*Sabal palmetto*				8	10	Remain	Good (61% to 80%)	
33	Mahogany	*Swietenia mahagoni*	19		35		40	Remove	Good (61% to 80%)	Codominant Leaders - Multi
34	Mahogany	*Swietenia mahagoni*	17		35		40	Remove	Poor (21% to 40%)	Girdling Roots
35	Live Oak	*Quercus virginiana*	16		30		25	Remove	Fair (41% to 60%)	Leaning (Moderate)
36	Mahogany	*Swietenia mahagoni*			25		30	Remain	Fair (41% to 60%)	Constricted Roots
37	Mahogany	*Swietenia mahagoni*			20		25	Remain	Fair (41% to 60%)	Constricted Roots
38	Live Oak	*Quercus virginiana*			40		50	Remain	Fair (41% to 60%)	Constricted Roots
39	Live Oak	*Quercus virginiana*	16		30		35	Remove	Fair (41% to 60%)	Girdling Roots
40	Live Oak	*Quercus virginiana*	14		25		30	Remove	Fair (41% to 60%)	Crown Density - Low
41	Live Oak	*Quercus virginiana*	16		30		35	Remove	Fair (41% to 60%)	Included Branches
42	Live Oak	*Quercus virginiana*	17		30		35	Remove	Poor (21% to 40%)	Constricted Roots, Root Damage
43	Live Oak	*Quercus virginiana*	19		35		40	Remove	Fair (41% to 60%)	Constricted Roots, Root Damage
44	Gumbo Limbo	*Bursera simaruba*	18		30		30	Remove	Poor (21% to 40%)	Constricted Roots
45	Cabbage Palm	*Sabal palmetto*				15	10	Relocate	Good (61% to 80%)	Over-Pruned
46	Cabbage Palm	*Sabal palmetto*				15	10	Relocate	Good (61% to 80%)	Over-Pruned
47	Cabbage Palm	*Sabal palmetto*	8			8	10	Remove	Fair (41% to 60%)	Over-Pruned
48	Areca Palm	*Dypsis lutescens*	20	Yes		20	15	Remove	Good (61% to 80%)	
49	Cabbage Palm	*Sabal palmetto*	8			5	10	Remove	Good (61% to 80%)	Over-Pruned
50	Areca Palm	*Dypsis lutescens*	32	Yes		20	20	Remove	Good (61% to 80%)	Nutrient Deficiency
50A	Camelia Tree		3		7		5	Remove	Fair (41% to 60%)	
51	Cabbage Palm	*Sabal palmetto*				10	10	Relocate	Good (61% to 80%)	Over-Pruned

FILE NAME:
DATE STAMP:

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90% CONSTRUCTION DOCUMENTS

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PROJECT STATUS

90% CONSTRUCTION DOCUMENTS

DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

1007657.00

SHEET TITLE

TREE DISPOSITIOI CHART

SHEET NUMBER

TD-2

EXISTING TREE INVENTORY/DISPOSITION CHART

Tree ID	Common Name	Scientific Name	DBH Removed (in)	Multi Trunk	Height (ft)	Clear Trunk Height	Spread (ft)	Disposition	Condition Rating	Observation 1
52	Coconut Palm	*Cocos nucifera*				30	5	Remove	Fair (41% to 60%)	Cat 2 Invasive, Over-Pruned
53	Coconut Palm	*Cocos nucifera*				25	10	Remove	Fair (41% to 60%)	Cat 2 Invasive, Over-Pruned
54	Coconut Palm	*Cocos nucifera*				20	5	Remove	Fair (41% to 60%)	Cat 2 Invasive, Over-Pruned
55	Cabbage Palm	*Sabal palmetto*				8	10	Relocate	Good (61% to 80%)	Over-Pruned
56	Cabbage Palm	*Sabal palmetto*				8	10	Relocate	Good (61% to 80%)	Over-Pruned
57	Coconut Palm	*Cocos nucifera*				25	5	Remove	Fair (41% to 60%)	Cat 2 Invasive, Cracks in Trunk
58	Cabbage Palm	*Sabal palmetto*	8			8	5	Remove	Fair (41% to 60%)	Over-Pruned
59	Queen Palm	*Syagrus romanzoffiana*	8			1	5	Remove	Good (61% to 80%)	
60	Cabbage Palm	*Sabal palmetto*	6			3	10	Remove	Good (61% to 80%)	
61	Washington Palm	*Washingtonia robusta*				10	10	Remove	Good (61% to 80%)	Cat 2 Invasive
61a	King Sago	Cycas revoluta	N/A		4	3	4	Remove		
62	Cabbage Palm	*Sabal palmetto*				8	10	Relocate	Good (61% to 80%)	
63	Coconut Palm	*Cocos nucifera*				25	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
63A	Cabbage Palm	*Sabal palmetto*	3		4	2	3	Remove		
64	Cabbage Palm	*Sabal palmetto*				8	10	Relocate	Good (61% to 80%)	Ficus on Trunk
65	Coconut Palm	*Cocos nucifera*				25	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
66	Royal Palm	*Roystonea regia*	10			25	15	Remove	Fair (41% to 60%)	Over-Pruned
67	Royal Palm	*Roystonea regia*	11			20	15	Remove	Fair (41% to 60%)	Over-Pruned
68	Cabbage Palm	*Sabal palmetto*	8			1	5	Remove	Good (61% to 80%)	
69	Cabbage Palm	*Sabal palmetto*	9			1	10	Remove	Good (61% to 80%)	
70	Coconut Palm	*Cocos nucifera*				25	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
71	Cabbage Palm	*Sabal palmetto*				8	10	Relocate	Good (61% to 80%)	Over-Pruned
72	Washington Palm	*Washingtonia robusta*				25	10	Remove	Fair (41% to 60%)	Cat 2 Invasive, Over-Pruned
73	Cabbage Palm	*Sabal palmetto*				15	10	Relocate	Good (61% to 80%)	Over-Pruned
74	Washington Palm	*Washingtonia robusta*				35	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
75	Washington Palm	*Washingtonia robusta*				30	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
76	Washington Palm	*Washingtonia robusta*				30	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
77	Washington Palm	*Washingtonia robusta*				30	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
78	Coconut Palm	*Washingtonia robusta*				25	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
79	Washington Palm	*Washingtonia robusta*				30	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
79a	Washington Palm	*Washingtonia robusta*				30	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
80	Washington Palm	*Washingtonia robusta*				30	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
81	Carrotwood	*Cupaniopsis anacardioides*			15		20	Remove	Good (61% to 80%)	Cat 1 Invasive, Trunk Damage (Minor)
82	Royal Palm	*Roystonea regia*				25	15	Relocate	Good (61% to 80%)	Over-Pruned
83	Washington Palm	*Washingtonia robusta*				35	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
84	Washington Palm	*Washingtonia robusta*				30	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
85	Washington Palm	*Washingtonia robusta*				30	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
86	Washington Palm	*Washingtonia robusta*				25	10	Remove	Fair (41% to 60%)	Cat 2 Invasive, Over-Pruned
87	Washington Palm	*Washingtonia robusta*				30	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
88	Washington Palm	*Washingtonia robusta*				30	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
89	Washington Palm	*Washingtonia robusta*				30	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
90	Silver Buttonwood	Conocarpus erectus var. sericeus	14		20		15	Remove	Fair (41% to 60%)	Basal Codominant
91	Carrotwood	*Cupaniopsis anacardioides*			20		15	Remove	Poor (21% to 40%)	Cat 1 Invasive Reduced Canopy (Major)
92	Silver Buttonwood	Conocarpus erectus var. sericeus	13		20		15	Remove	Fair (41% to 60%)	Basal Codominant
93	Foxtail Palm	*Wodyetia bifurcata*	8			20	15	Remove	Good (61% to 80%)	
94	Washington Palm	*Washingtonia robusta*				25	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
95	Washington Palm	*Washingtonia robusta*				15	10	Remove	Fair (41% to 60%)	Cat 2 Invasive, Over-Pruned
96	Coconut Palm	*Cocos nucifera*				30	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
97	Coconut Palm	*Cocos nucifera*				20	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
98	Washington Palm	*Washingtonia robusta*				30	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
99	Washington Palm	*Washingtonia robusta*				35	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
100	Washington Palm	*Washingtonia robusta*				30	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
101	Washington Palm	*Washingtonia robusta*				30	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
102	Silver Buttonwood	Conocarpus erectus var. sericeus	7		15		15	Remove	Good (61% to 80%)	Reduced Canopy (Moderate)
103	Silver Buttonwood	Conocarpus erectus var. sericeus	7		15		15	Remove	Fair (41% to 60%)	Lopsided/Moderately Reduced Canopy

FILE NAME:
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90% CONSTRUCTION DOCUMENTS

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REGISTRATION

ERIC DOUGLAS HARRISON
No. 6667129
STATE OF FLORIDA
LANDSCAPE ARCHITECT

DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents

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PROJECT STATUS

90% CONSTRUCTION DOCUMENTS

DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL
33404

PROJECT NUMBER

1007657.00

SHEET TITLE

TREE DISPOSITION CHART

SHEET NUMBER

TD-3

EXISTING TREE INVENTORY/DISPOSITION CHART

Tree ID	Common Name	Scientific Name	DBH Removed (in)	Multi Trunk	Height (ft)	Clear Trunk Height	Spread (ft)	Disposition	Condition Rating	Observation 1
104	Washington Palm	*Washingtonia robusta*				20	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
105	Washington Palm	*Washingtonia robusta*				20	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
106	Washington Palm	*Washingtonia robusta*				30	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
107	Royal Palm	*Roystonea regia*	11			25	15	Remove	Fair (41% to 60%)	Over-Pruned
108	Washington Palm	*Washingtonia robusta*				30	10	Remove	Fair (41% to 60%)	Cat 2 Invasive, Over-Pruned
109	Washington Palm	*Washingtonia robusta*				25	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
111	Travelers Palm	*Ravenala madagascariensis*	9			20	25	Remove	Good (61% to 80%)	
112	Cabbage Palm	*Sabal palmetto*				20	10	Relocate	Good (61% to 80%)	Over-Pruned
113	Cabbage Palm	*Sabal palmetto*				20	10	Relocate	Good (61% to 80%)	Over-Pruned
114	Coconut Palm	*Cocos nucifera*				25	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
115	Travelers Palm	*Ravenala madagascariensis*	6			10	10	Remove	Good (61% to 80%)	
116	Travelers Palm	*Ravenala madagascariensis*	8	Yes		20	25	Remove	Good (61% to 80%)	
117	Cabbage Palm	*Sabal palmetto*				8	10	Remove	Fair (41% to 60%)	Insect Damage - Leaves
118	Cabbage Palm	*Sabal palmetto*	3			1	10	Remove	Good (61% to 80%)	
119	Cabbage Palm	*Sabal palmetto*				8	10	Relocate	Good (61% to 80%)	Over-Pruned
120	Washington Palm	*Washingtonia robusta*				30	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
121	Washington Palm	*Washingtonia robusta*				30	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
122	Washington Palm	*Washingtonia robusta*				30	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
123	Washington Palm	*Washingtonia robusta*				30	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
124	Washington Palm	*Washingtonia robusta*				30	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
125	Washington Palm	*Washingtonia robusta*				30	10	Remove	Good (61% to 80%)	Cat 2 Invasive, Over-Pruned
126	Coconut Palm	*Cocos nucifera*				20	10	Remove	Fair (41% to 60%)	Cat 2 Invasive, Over-Pruned
127	Coconut Palm	*Cocos nucifera*		`		20	10	Remove	Fair (41% to 60%)	Cat 2 Invasive, Over-Pruned
128	Coconut Palm	*Cocos nucifera*				20	10	Remove	Fair (41% to 60%)	Cat 2 Invasive, Over-Pruned
129	Royal Palm	*Roystonea regia*	12			30	15	Remove	Fair (41% to 60%)	Over-Pruned
130	Live Oak	*Quercus virginiana*	8		20		20	Remove	Good (61% to 80%)	Codominant Leaders/No Included Bark
130A	Brazilian Beauty Leaf	*Calophyllum inophyllum*	3		10		8	Remove	Fair (41% to 60%)	
131	Live Oak	*Quercus virginiana*	5		15		15	Remove	Fair (41% to 60%)	Codominant Leaders - Crossing
132	Cabbage Palm	*Sabal palmetto*	9			5	10	Remove	Good (61% to 80%)	
133	Cabbage Palm	*Sabal palmetto*				10	10	Remain	Good (61% to 80%)	Over-Pruned
134	Brazilian Beauty Leaf	*Calophyllum inophyllum*	12		25		25	Remove	Fair (41% to 60%)	Girdling Roots
135	Brazilian Beauty Leaf	*Calophyllum inophyllum*	12		25		25	Remove	Fair (41% to 60%)	Girdling Roots
136	Live Oak	*Quercus virginiana*	6		10		10	Remove	Poor (21% to 40%)	Basal Codominant/Included Bark - Multi
137	Gumbo Limbo	*Bursera simaruba*	11		20		20	Remove	Poor (21% to 40%)	Basal Codominant/Included Bark - Multi
138	Travelers Palm	*Ravenala madagascariensis*	8	Yes		5	20	Remove	Good (61% to 80%)	
139	*Tree Not Present*									
140	Japanese Privet	*Ligustrum japonicum*	12	Yes	10		10	Remove	Fair (41% to 60%)	Reduced Canopy (Moderate)
141	Cabbage Palm	*Sabal palmetto*	7			5	10	Remove	Good (61% to 80%)	Over-Pruned
142	Cabbage Palm	*Sabal palmetto*				20	10	Remain	Good (61% to 80%)	
143	Green Buttonwood	*Conocarpus erectus*			30		45	Remain	Fair (41% to 60%)	Strap Constricting Trunk
144	Bald Cypress	*Taxodium distichum*			20		20	Remain	Good (61% to 80%)	
145	Bald Cypress	*Taxodium distichum*			20		20	Remain	Good (61% to 80%)	
145A	Bald Cypress	*Taxodium distichum*			25		15	Remain		
146	Bald Cypress	*Taxodium distichum*			25		20	Remain	Good (61% to 80%)	
147	Bald Cypress	*Taxodium distichum*			25		25	Remain	Good (61% to 80%)	
148	Bald Cypress	*Taxodium distichum*		Yes	20		25	Remain	Good (61% to 80%)	
149	Bald Cypress	*Taxodium distichum*			20		20	Remain	Good (61% to 80%)	
150	Cabbage Palm	*Sabal palmetto*				15	10	Remain	Good (61% to 80%)	
151	Cabbage Palm	*Sabal palmetto*				15	10	Remain	Good (61% to 80%)	
152	Gumbo Limbo	*Bursera simaruba*			20		15	Remain	Fair (41% to 60%)	Restricted Canopy
153	Cabbage Palm	*Sabal palmetto*			12		10	Remain	Good (61% to 80%)	Restricted Canopy
154	Gumbo Limbo	*Bursera simaruba*		Yes	20		20	Remain	Fair (41% to 60%)	Basal Codominant
155	Cabbage Palm	*Sabal palmetto*	6			15	10	Remove	Good (61% to 80%)	Restricted and Suppressed Canopy
156	Cabbage Palm	*Sabal palmetto*	4			15	10	Remove	Fair (41% to 60%)	Restricted and Suppressed Canopy
157	Cabbage Palm	*Sabal palmetto*	7			15	10	Remove	Fair (41% to 60%)	Restricted and Suppressed Canopy

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DATE STAMP:

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No. 6667129
STATE OF FLORIDA
LANDSCAPE ARCHITECT

DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents

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PROJECT STATUS

90% CONSTRUCTION DOCUMENTS

DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

1007657.00

SHEET TITLE

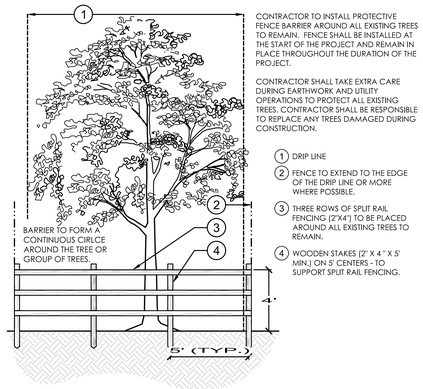
TREE DISPOSITION CHART

SHEET NUMBER

TD-4

EXISTING TREE INVENTORY/DISPOSITION CHART

Tree ID	Common Name	Scientific Name	DBH Removed (in)	Multi Trunk	Height (ft)	Clear Trunk Height	Spread (ft)	Disposition	Condition Rating	Observation 1
158	Cabbage Palm	*Sabal palmetto*				10	0	Remove	Dead (0% to 5%)	
159	Cabbage Palm	*Sabal palmetto*				15	10	Remain	Good (61% to 80%)	Ficus on Trunk
160	Cabbage Palm	*Sabal palmetto*				20	10	Remain	Good (61% to 80%)	Vine Cover (Heavy)
161	Cabbage Palm	*Sabal palmetto*				15	10	Remain	Good (61% to 80%)	Vine Cover (Heavy)
162	Cabbage Palm	*Sabal palmetto*				15	10	Remain	Good (61% to 80%)	Vine Cover (Heavy)
163	Cabbage Palm	*Sabal palmetto*				15	0	Remain	Dead (0% to 5%)	Cavities
164	Cabbage Palm	*Sabal palmetto*				15	10	Remain	Good (61% to 80%)	Vine Cover (Heavy)
165	Cabbage Palm	*Sabal palmetto*				20	10	Remain	Good (61% to 80%)	Trunk Damage (Minor)
166	Cabbage Palm	*Sabal palmetto*				20	10	Remain	Good (61% to 80%)	Vine Cover (Heavy)
167	Not Present									
168	Cabbage Palm	*Sabal palmetto*				20	10	Remain	Good (61% to 80%)	
169	Cabbage Palm	*Sabal palmetto*				5	10	Remain	Good (61% to 80%)	In Fence
170	Cabbage Palm	*Sabal palmetto*				15	10	Remain	Good (61% to 80%)	Umbrella Tree on Trunk
171	Gumbo Limbo	*Bursera simaruba*			15		20	Remain	Fair (41% to 60%)	Basal Codominant with Adjacent Tree
172	Live Oak	*Quercus virginiana*			30		35	Remain	Fair (41% to 60%)	Lopsided/Moderately Reduced Canopy
173	Gumbo Limbo	*Bursera simaruba*			25		30	Remain	Good (61% to 80%)	Improperly Mulched
174	Cabbage Palm	*Sabal palmetto*				20	10	Relocate	Good (61% to 80%)	Over-Pruned
175	Cabbage Palm	*Sabal palmetto*				20	10	Relocate	Good (61% to 80%)	Over-Pruned
176	Cabbage Palm	*Sabal palmetto*				20	10	Relocate	Good (61% to 80%)	Over-Pruned
177	Cabbage Palm	*Sabal palmetto*				12	10	Remain	Fair (41% to 60%)	Over-Pruned
178	Cabbage Palm	*Sabal palmetto*				15	10	Relocate	Good (61% to 80%)	Over-Pruned
179	Cabbage Palm	*Sabal palmetto*				20	10	Relocate	Good (61% to 80%)	Over-Pruned
180	Cabbage Palm	*Sabal palmetto*				25	10	Relocate	Good (61% to 80%)	Over-Pruned
181	Cabbage Palm	*Sabal palmetto*				12	10	Remain	Fair (41% to 60%)	Over-Pruned
182	Cabbage Palm	*Sabal palmetto*				15	10	Remain	Fair (41% to 60%)	Over-Pruned
183	Cabbage Palm	*Sabal palmetto*				12	5	Remain	Fair (41% to 60%)	Over-Pruned
184	Panama Berry Tree	*Muntingia calabura*			20		25	Remove	Fair (41% to 60%)	Moderate Invasive, Codominant Leaders/Included Bark
185	Cabbage Palm	*Sabal palmetto*				25	10	Relocate	Good (61% to 80%)	Over-Pruned
186	Moringa	*Moringa oleifera*			20		20	Remove	Fair (41% to 60%)	Cat 1 Invasive, Leaning (Minor)
186a	Unknown Tree		2		5		4	Remove	Fair (41% to 60%)	
187	Cabbage Palm	*Sabal palmetto*		Yes		15	20	Remain	Good (61% to 80%)	Over-Pruned
187a	Gumbo Limbo	*Bursera simaruba*			12		10	Remain	Fair (41% to 60%)	
188	Gumbo Limbo	*Bursera simaruba*	3		15		15	Remove	Good (61% to 80%)	Strap Constricting Trunk
189	Coconut Palm	*Cocos nucifera*				1	15	Remove	Good (61% to 80%)	Cat 2 Invasive
190	Royal Palm	*Roystonea regia*				25	15	Relocate	Good (61% to 80%)	
190a	Unknown Tree				5		6	Remove	Fair (41% to 60%)	
191	Coconut Palm	*Cocos nucifera*				1	15	Remove	Good (61% to 80%)	Cat 2 Invasive
192	Coconut Palm	*Cocos nucifera*				1	15	Remove	Good (61% to 80%)	Cat 2 Invasive
193	Foxtail Palm	*Wodyetia bifurcata*		Yes		5	10	Remain	Fair (41% to 60%)	Nutrient Deficiency
194	Foxtail Palm	*Wodyetia bifurcata*		Yes		5	0	Remain	Fair (41% to 60%)	Nutrient Deficiency
195	Foxtail Palm	*Wodyetia bifurcata*		Yes		5	10	Remain	Fair (41% to 60%)	Nutrient Deficiency
		Total DBH to be Removed (inches)	**766**							



CONTRACTOR TO INSTALL PROTECTIVE FENCE BARRIER AROUND ALL EXISTING TREES TO REMAIN. FENCE SHALL BE INSTALLED AT THE START OF THE PROJECT AND REMAIN IN PLACE THROUGHOUT THE DURATION OF THE PROJECT.

CONTRACTOR SHALL TAKE EXTRA CARE DURING EARTHWORK AND UTILITY OPERATIONS TO PROTECT ALL EXISTING TREES. CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ANY TREES DAMAGED DURING CONSTRUCTION.

1. DRIP LINE
2. FENCE TO EXTEND TO THE EDGE OF THE DRIP LINE OR MORE WHERE POSSIBLE.
3. THREE ROWS OF SPLIT RAIL FENCING (2"X4") TO BE PLACED AROUND ALL EXISTING TREES TO REMAIN.
4. WOODEN STAKES (2" X 4 " X 5' MIN.) ON 5' CENTERS - TO SUPPORT SPLIT RAIL FENCING.

1 TREE PROTECTION FENCING
1/4" = 1'-0" 329343-38

TREE DISPOSITION NOTES

1. ROOT PRUNING AND WATERING PRIOR TO CONSTRUCTION:
   - 1.1. TREE ROOT PRUNING AND TRIMMING, SHALL BE PERFORMED UNDER THE SUPERVISION OF A CERTIFIED & LICENSED ARBORIST.
   - 1.2. ROOT PRUNE TREES A PER CHART BELOW PRIOR TO CONSTRUCTION. PRIOR TO ROOT PRUNING, THOROUGHLY WATER THE ROOT ZONE WITH AT LEAST 2 TO 3 INCHES OF WATER FOR 2 TO 3 DAYS PRIOR TO ROOT PRUNING. SEE BELOW FOR RELOCATION TIMELINE.

MINIMUM ROOT PRUNING WAITING TIME PRIOR TO RELOCATION

TREE CALIPER	WAITING PERIOD
< or = 5"	Tree Spade no waiting period
6-8"	2 Months
9-10"	3 Months
11-12"	4 Months
13-16"	5 Months
>16"	6 Months +

MINIMUM ROOT BALL SIZES

A. A. FOR SMALL TREES UP TO 5 FT (1.5M), DECIDUOUS SHRUBS UP TO 9 FT (2.7M), AND COLUMNAR EVERGREENS OVER 3FT (0.9M). ROOT BALLS OF CONICAL EVERGREENS AND BROADLEAF EVERGREENS ARE AT LEAST ONE SIZE LARGER.

A. B. TREES 6 IN (15CM) AND GREATER CALIPER SHOULD HAVE A ROOT BALL OF 10IN (25CM) DIAMETER PER INCH OF TRUNK CALIPER, THAT IS, A 7IN (18CM) TREE SHOULD HAVE A 70IN (1.8M) DIAMETER ROOT BALL.
NOTE: CALIPER OF THE TRUNK MEASURED 6 IN (15CM) ABOVE THE GROUND UP TO AND INCLUDING 4 IN (10CM) SIZE AND 12 IN (30CM) ABOVE THE GROUND FOR LARGER SIZES.

- 1.2.1. PROVIDE TEMPORARY IRRIGATION FOR EACH TREE THROUGHOUT THE DURATION OF CONSTRUCTION.
- 1.2.2. ROOT PRUNE TREES, SHOWN ON PLAN IN AREAS WHERE ROOTS WILL CONFLICT WITH CONSTRUCTION ACTIVITY. PRUNING OF ROOTS SHOULD BE DONE IN A MANNER TO PRESERVE THE GREATEST AMOUNT OF THE ROOT BASE AS POSSIBLE.
- 1.2.3. BACKFILL TRENCH WITH PLANTING SOIL.
- 1.2.4. FERTILIZE WITHIN THE ROOT ZONE (SEE NOTE 1.4).
- 1.3. ROOT PRUNING SHALL BE ACCOMPLISHED BY DIGGING A TRENCH AROUND THE TREE IN AREAS WHERE PROPOSED SITE WORK WILL BE PERFORMED. TRENCHING SHALL BE AT A MINIMUM OF 24" DEEP. ROOT PRUNE ONLY WITH A MECHANICAL ROOT-PRUNING SAW OR A TRENCHER WITH A MAXIMUM TRENCH WIDTH OF 8".
- 1.4. ALL EXPOSED ROOTS SHALL BE CUT OFF SMOOTHLY, WITH SHARP INSTRUMENTS. BACKFILL TRENCHES WITH SOIL CONSISTING OF 30% SILICA SAND AND 70% MUCK. WATER THOROUGHLY AFTER ROOT PRUNING, AND ONCE WEEKLY DURING THE ROOT REGENERATION PERIOD, WITH A SOLUBLE FERTILIZER THAT HAS A 20.20.20 ANALYSIS AT MANUFACTURER'S RECOMMENDED RATE.

2. BRACING AND GUYING OF TREES AFTER ROOT PRUNING
   - 2.1. BRACING AND GUYING SHALL BE PROVIDED TO ASSURE THE TREES' STABILITY DURING THE ROOT REGENERATION PERIOD; AS PER THE APPLICABLE DETAIL(S).
3. ROOT ZONE PROTECTION
   - 3.1. DURING THE ENTIRE CONSTRUCTION PERIOD ALL REASONABLE EFFORTS SHALL BE MADE TO PROTECT THE ROOT ZONE FROM DAMAGE. TREE PROTECTION BARRICADING SHALL BE ERECTED AROUND THE TREES. ALL PLANT MATERIAL DESIGNATED TO BE SAVED, OR OUTSIDE OF THE LIMITS OF CONSTRUCTION, SHALL BE PROTECTED DURING CONSTRUCTION WORK. WORK UNDER THESE ITEMS WILL INCLUDE CONSTRUCTION AND MAINTENANCE OF TEMPORARY BARRICADE FENCING TO PROTECT THE ROOT ZONES OF EXISTING TREES AND OTHER PLANTINGS.
   - 3.2. A PROTECTION BARRIER OR TEMPORARY FENCE OF AT LEAST 4 FEET IN HEIGHT SHALL BE INSTALLED AROUND EACH TREE TO BE PROTECTED AND PRESERVED. THE TREE PROTECTION SHALL BE INSTALLED PRIOR TO THE ACTUAL CONSTRUCTION START AND MAINTAINED FOR THE DURATION OF THE PROJECT.
   - 3.3. TREE BARRICADE FENCING SHALL BE; AS PER THE APPLICABLE DETAIL(S).

TREE CANOPY PRUNING NOTES

1. THE SCOPE OF THE WORK FOR MAY REQUIRE THE TRIMMING OF EXISTING TREE CANOPY TO ACCOMMODATE THE PROPOSED SITE IMPROVEMENTS. IF CANOPY TRIMMING IS REQUIRED THE CONTRACTOR SHALL TRIM EXISTING TREES IN ACCORDANCE WITH THE FOLLOWING:
2. CANOPY TRIMMING SHALL BE PERFORMED IMPLEMENTING ANSI-A300 (AMERICAN NATIONAL STANDARDS INSTITUTE) PRUNING STANDARDS BY OR UNDER THE SUPERVISION OF AN ISA CERTIFIED ARBORIST. TRIMMING INCLUDES BOTH HARDWOOD (DICOTYLEDON) AND PALM (MONOCOTYLEDON) SPECIES.
3. THE CONTRACTOR WILL ENSURE THAT ANY POTENTIAL CANOPY REDUCTION WILL BE KEPT TO A MINIMUM BY REMOVING ONLY WHAT IS NECESSARY TO ACHIEVE THE REQUIRED CLEARANCES FOR THE INSTALLATION OF THE PROPOSED SITE IMPROVEMENTS. WHEN THE PRUNING OF A BRANCH WILL RESULT IN THE REMOVAL OF ONE-HALF (1/2) OF THE FOLIAGE ON THAT BRANCH, IT SHOULD BE REMOVED TO THE PARENT STEM. IF CANOPY REDUCTION WILL RESULT IN A FOLIAGE LOSS GREATER THAN OR EQUAL TO ONE-QUARTER (1/4) OF ANY SINGLE TREE CANOPY, THE CONTRACTOR WILL BE REQUIRED TO CONTACT THE PROJECT CEI AND CITY PROJECT REPRESENTATIVE PRIOR TO TRIMMING. TREES THAT ARE PRUNED IN A MANOR INCONSISTENT WITH THE ANSI - A300 PRUNING STANDARDS (INCLUDING BUT NOT LIMITED TO: IMPROPER PRUNING CUTS, EXCESSIVE CANOPY REDUCTION, HEADER CUTS, LION TAILING, HAT RACKING OR TOPPING) WILL REQUIRE THE REMOVAL AND MITIGATION OF THE SUBJECT TREE AT THE CONTRACTOR'S EXPENSE AND MAYBE SUBJECT TO ADDITIONAL FINES AS DETERMINED BY THE GOVERNING ENTITY.

FILE NAME:
DATE STAMP:

This item has been digitally signed and sealed by **ERIC D. HARRISON, RLA**, on the date adjacent to the seal.

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REGISTRATION

ERIC DOUGLAS HARRISON — No. 6667129 — STATE OF FLORIDA — LANDSCAPE ARCHITECT

DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents

CONSULTANT

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500 Australian Avenue South
Suite 850
West Palm Beach, FL 33401
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PROJECT STATUS

90% CONSTRUCTION DOCUMENTS

DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

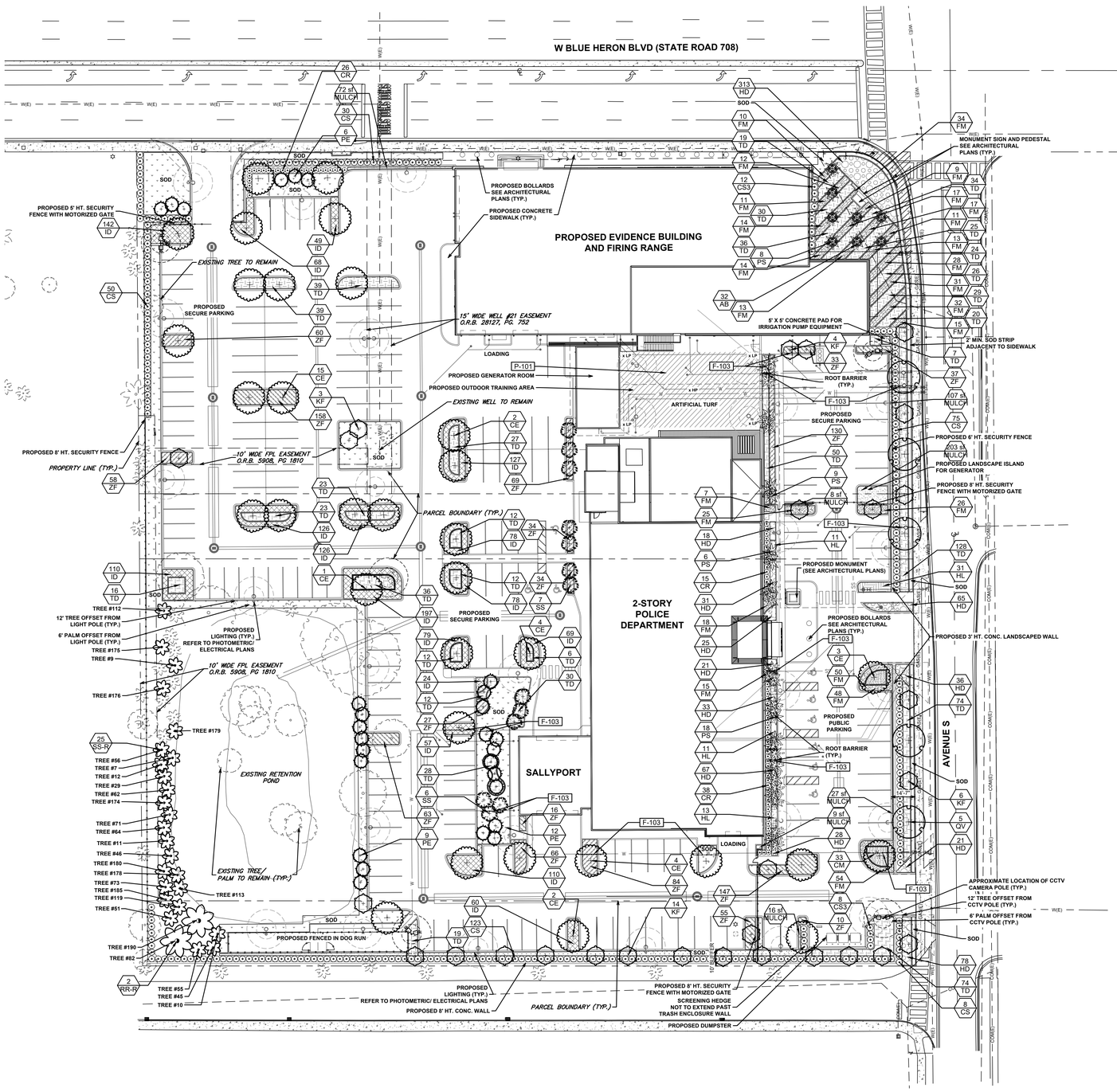
1007657.00

SHEET TITLE

TREE DISPOSITIOI CHART & DETAIL

SHEET NUMBER

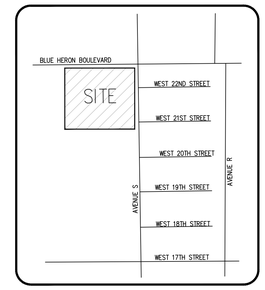
TD-5



GRAPHIC SCALE
0 15 30 60
1 INCH = 30 FEET

Sunshine 811
Call 811 or visit sunshine811.com two full business days before digging to have buried facilities located and marked.
Check positive response codes before you dig!

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)



LOCATION MAP
N.T.S.

PLANT SCHEDULE

SYMBOL	CODE	QTY	COMMON / BOTANICAL NAME	CONT	SIZE	NATIVE	SPACING
TREES							
+	CE	33	BUTTONWOOD / CONOCARPUS ERECTUS MIN. 6' CT	SEE SIZE	12' HT, 5' SPRD, 2" DBH	YES	
+	PE	27	SLASH PINE / PINUS ELLIOTTII MIN. 6' CT	SEE SIZE	12' HT, 5' SPRD, 2" DBH	YES	
+	QV	5	SOUTHERN LIVE OAK / QUERCUS VIRGINIANA MIN. 6' CT	SEE SIZE	12' HT, 5' SPRD, 2" DBH	YES	
ACCENT TREES							
+	KF	28	BLACK IRONWOOD / KRUGIODENDRON FERREUM MIN. 5' CT	SEE SIZE	10' HT, 5' SPRD, 1.5" DBH	YES	
PALMS							
+	SS	13	CABBAGE PALMETTO / SABAL PALMETTO SLICK TRUNK	SEE SIZE	8'-10' CT, STAGGERED	YES	
+	PS	41	SOLITAIRE PALM / PTYCHOSPERMA ELEGANS SINGLE TRUNK, STAGGERED HT. REFER TO PLANS FOR INSTALLED HEIGHTS	SEE SIZE	8' - 16' CT	NO	
RELOCATED PALMS							
	SS-R	25	CABBAGE PALMETTO / SABAL PALMETTO	RELOCATED		YES	
	RR-R	2	ROYAL PALM / ROYSTONEA REGIA	RELOCATED		YES	
SYMBOL	**CODE**	**QTY**	**COMMON / BOTANICAL NAME**	**CONT**	**SIZE**	**NATIVE**	**SPACING**
SHRUBS							
	AB	32	ORANGE BROMELIAD / AECHMEA BLANCHETIANA	SEE SIZE	24" HT, FULL	NO	36" o.c.
+	CR	80	RED TIP COCO PLUM / CHRYSOBALANUS ICACO 'RED TIP'	SEE SIZE	24" HT, 24" SPRD	YES	36" o.c.
+	CS	286	SMALL LEAF CLUSIA / CLUSIA GUTTIFERA	SEE SIZE	36" HT, 36" SPRD	YES	48" o.c.
+	CS3	20	SMALL LEAF CLUSIA / CLUSIA GUTTIFERA	SEE SIZE	6' HT, FULL	YES	48" o.c.
SHRUB AREAS							
	TD	919	DWARF FAKAHATCHEE GRASS / TRIPSACUM FLORIDANUM	SEE SIZE	18" HT, 18" SPRD	YES	30" o.c.
	ZF	1,078	FLORIDA COONTIE / ZAMIA FLORIDANA	SEE SIZE	12" HT, 12" SPRD	YES	18" o.c.
	FM	457	GREEN ISLAND FICUS / FICUS MICROCARPA	SEE SIZE	12" HT, 12" SPRD	NO	24" o.c.
	CM	55	MAGNIFICENT CROTON / CODIAEUM VARIEGATUM 'MAGNIFICENT'	SEE SIZE	24" HT, 24" SPRD	NO	24" o.c.
	HL	66	SPIDER LILY / HYMENOCALLIS LATIFOLIA	SEE SIZE	12" HT, 12" SPRD	YES	24" o.c.
GROUND COVERS							
	HD	736	DUNE SUNFLOWER / HELIANTHUS DEBILIS	SEE SIZE	6" HT, 6" SPRD	YES	18" o.c.
	ID	1,500	SCHILLINGS DWARF YAUPON HOLLY / ILEX VOMITORIA 'SCHILLINGS DWARF'	SEE SIZE	14" HT, 14" SPRD	YES	18" o.c.
MULCH							
	MULCH	632 SF	MULCH / MULCH	MULCH			
SOD							
	SOD	11,293 SF	FLORATAM ST. AUGUSTINE GRASS / STENOTAPHRUM SECUNDATUM 'FLORATAM'	SOD			

FENCE SCHEDULE

CODE	DESCRIPTION	QTY
F-103	ROOT BARRIER	222 LF

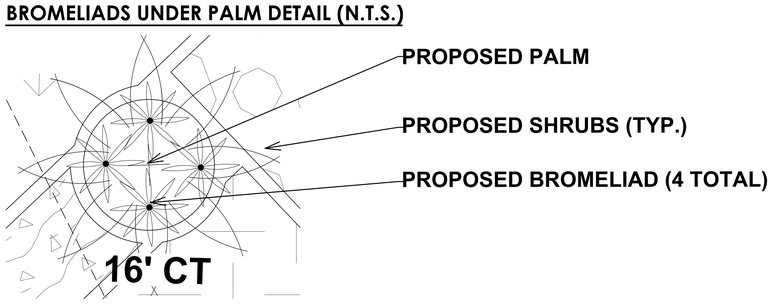
ARTIFICIAL TURF SCHEDULE

SYMBOL	CODE	DESCRIPTION	QTY
	P-101	FIELDTURF CLASSIC HD ARTIFICIAL TURF	3,917 SF

LANDSCAPE CALCULATIONS

PARKING SEC. 31-610	REQUIRED	PROVIDED	NOTES
Adjacent Street Ave. S (408.99 L.F Less drive aisles = 326.2').	10' Landscape Strip 1 Tree/ 20 L.F. (16 Trees) Hedge/ Wall or Berm	10' Landscape Strip 11 Trees 3' HT Wall; 3' HT Hedge	Deficit in 5 trees due to site constraints; utility conflicts and safe site triangles
Adjacent Street at Suncoast High School (235.79 L.F.)	10' Landscape Strip 1 Tree/ 20 L.F. (12 Trees) Hedge/ Wall or Berm	10' Landscape Strip 12 Trees 8' HT Wall; 3' HT Hedge	
1 Shade/ Terminal Island (50% Shade Trees)	51 (25.5 Shade Trees)	38 Proposed Trees (32 Shade Trees) 4 Existing Trees 6 Palms	Deficit of 7 trees due to site constraints; utility conflicts; CCTV camera poles; easement conflicts
NATIVE SPECIES	**REQUIRED**	**PROVIDED**	**NOTES**
1 Tree/ 1,500 S.F.	157	180	
Palms (<20% of Required Trees)	33	54	30% of trees are palms due to scale and size of building as well as site constraints with parking island widths, etc.
	60% Native Shade Trees	100%	
	70% Native Shrubs	90%	5,230 Total Proposed Shrubs; 4,686 Native
PLANT SIZING	**REQUIRED**	**PROVIDED**	**NOTES**
Shade Tree	12' HT., 2" DBH., 5' SPRD	12' HT., 2" DBH., 5' SPRD	
Accent Tree	10' HT., 1.5" DBH., 5' SPRD	10' HT., 1.5" DBH., 5' SPRD	
Palms	8' CT	8' CT	

BROMELIADS UNDER PALM DETAIL (N.T.S.)



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REGISTRATION
ERIC DOUGLAS HARRISON No. 6667129 STATE OF FLORIDA LANDSCAPE ARCHITECT

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DRAWING HISTORY

No.	DATE	DESCRIPTION
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RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
LANDSCAPE PLAN

SHEET NUMBER
LD-1

LANDSCAPE SPECIFICATIONS

1. GENERAL
   - 1.1. WORK PERFORMED SHALL COMPLY WITH THE FOLLOWING:
     - 1.1.1. THESE GENERAL NOTES, CONSTRUCTION DOCUMENTS AND SPECIFICATIONS.
     - 1.1.2. ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES, ORDINANCES AND REGULATIONS.
   - 1.2. SOURCE OF BASE INFORMATION IS PROVIDED BY [ADD HERE] ON [ADD DATE HERE] AND IS ASSUMED TO BE CORRECT. IF SITE DISCREPANCIES ARE PRESENT, CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY. IF CONTRACTOR CONTINUES WORK WITHOUT THE PROPER NOTIFICATION, CONTRACTOR DOES SO AT HIS OWN RISK.
   - 1.3. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, SUPERVISION, AND EQUIPMENT REQUIRED FOR THE WORK AS SHOWN ON THE CONSTRUCTION DOCUMENTS DESCRIBED HEREIN.
   - 1.4. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUB-CONTRACTORS AS REQUIRED TO COMPLETE THE WORK OF THIS PROJECT.
   - 1.5. CONTRACTOR SHALL VERIFY LOCATIONS OF PERTINENT SITE IMPROVEMENTS INSTALLED UNDER OTHER CONTRACTS. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT OWNER'S REPRESENTATIVE FOR INSTRUCTIONS PRIOR TO COMMENCING WORK.
   - 1.6. CONTRACTOR TO NOTIFY "SUNSHINE STATE ONE CALL OF FLORIDA, INC." AT 1-800-432-4770 TWO FULL BUSINESS DAYS PRIOR TO DIGGING FOR UNDERGROUND UTILITY LOCATIONS.
   - 1.7. CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALL UTILITY LOCATIONS AND INSTALLING FACILITIES SO AS TO NOT CONFLICT. THE LOCATION OF EXISTING UTILITIES OR SITE FEATURES AS SHOWN ON THE PLANS MAY VARY IN RELATION TO ACTUAL EXISTING CONDITIONS. ANY DIFFERING SITE CONDITIONS FROM THAT WHICH IS REPRESENTED HEREON, WHETHER ABOVE, ON OR BELOW THE SURFACE OF THE GROUND, SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE LANDSCAPE ARCHITECT AND THE OWNER IN WRITING. NO CLAIM FOR EXPENSES INCURRED BY THE CONTRACTOR DUE TO DIFFERING SITE CONDITIONS WILL BE ALLOWED IF THE CONTRACTOR FAILS TO PROVIDE THE REQUIRED WRITTEN NOTIFICATION OF SUCH CONDITIONS FOR REVIEW BY THE LANDSCAPE ARCHITECT AND THE OWNER.
   - 1.8. CONTRACTOR SHALL NOTIFY ALL APPROPRIATE UTILITY COMPANIES OF PROPOSED START OF WORK IN ACCORDANCE WITH THEIR STANDARD REQUIREMENTS, INCLUDING BUT NOT LIMITED TO, WATER, SANITARY SEWER, POWER, NATURAL GAS, TELEPHONE AND CABLE TV COMPANIES.
   - 1.9. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.
   - 1.10. PERFORM EXCAVATION IN THE VICINITY OF UNDERGROUND UTILITIES WITH CARE AND BY HAND, IF NECESSARY. THE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK AND DISRUPTION OF DAMAGE TO UTILITIES SHALL BE REPAIRED IMMEDIATELY AND AT NO EXPENSE TO THE OWNER.
   - 1.11. THE SUCCESSFUL BIDDER SHALL FURNISH TO THE OWNER A UNIT PRICE BREAKDOWN FOR ALL MATERIALS. THE OWNER MAY, AT ITS DISCRETION, ADD OR DELETE FROM THE MATERIALS UTILIZING THE UNIT PRICE BREAKDOWN SUBMITTED.
   - 1.12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND ARE IN HAND AT THE JOB SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CONTRACTOR SHALL ABIDE BY ALL PERMIT CONDITIONS.
2. PRE-CONSTRUCTION RESPONSIBILITY
   - 2.1. UPON RECEIPT OF NOTICE OF AWARD, THE CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, ALL AFFECTED UTILITY OWNERS, THE OWNER, THE LANDSCAPE ARCHITECT, ANY OTHER PERTINENT PARTIES AND HIMSELF.
   - 2.2. CONTRACTOR SHALL PROVIDE TEMPORARY SANITARY FACILITIES ONSITE. LOCATION TO BE DETERMINED BY THE OWNER. JANITORIAL SERVICES SHALL BE PROVIDED BY CONTRACTOR THROUGHOUT THE DURATION OF PROJECT.
   - 2.3. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, ELEVATION, AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION.
   - 2.4. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE PLANS; THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT.
   - 2.5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ARRANGEMENTS FOR THE FIELD LOCATIONS AND FOR ANY TREES PROPOSED FOR RELOCATION. THIS SHALL BE DONE IN A TIMELY MANNER TO MINIMIZE IMPACT ON CONSTRUCTION SCHEDULE. ANY DELAY CAUSED BY THE CONTRACTOR BY THE RELOCATION OF TREES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.
   - 2.6. CONTRACTOR SHALL VERIFY LIMITS OF CONSTRUCTION AS NOTED ON THE PLANS. ANY WORK PERFORMED OUTSIDE OF THE AGREED UPON LIMITS OF CONSTRUCTION SHALL BE DONE AT THE EXPENSE OF THE CONTRACTOR.
3. SITE DEMOLITION
   - 3.1. ITEMS SHALL REMAIN UNLESS OTHERWISE NOTED ON THE PLAN(S). REMOVE DESIGNATED ITEMS SHOWN ON THE PLAN TO THE FULL DEPTH OF THEIR CONSTRUCTION UNLESS OTHERWISE NOTED.
   - 3.2. ALL HARDSCAPE DESIGNATED FOR REMOVAL SHALL BE SAW CUT, LEAVING UNIFORM EDGES TO THE GREATEST EXTENT POSSIBLE. MATERIAL EDGES TO REMAIN SHALL BE SHORED UP AND PROTECTED DURING CONSTRUCTION TO PRESERVE EDGE INTACT. REPAIRS TO DAMAGED EDGES SHALL BE REPAIRED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
   - 3.3. NO EXISTING MATERIAL SHALL BE USED IN NEW CONSTRUCTION UNLESS NOTED ON THE PLANS OR APPROVED DURING THE SHOP DRAWING APPROVAL PROCESS.
   - 3.4. SALVAGE EXISTING MATERIALS AS INDICATED ON THE PLANS. SALVAGED MATERIALS SHALL BE HANDLED WITH CARE AND STORED ON-SITE OR AS DIRECTED BY OWNER. CLEAN ALL DEBRIS AND CONSTRUCTION MATERIAL FROM SALVAGED ITEMS; REUSE AS DIRECTED BY OWNER'S REPRESENTATIVE.
   - 3.5. REMOVE DEMOLISHED MATERIALS FROM SITE AND DISPOSE OF AS REQUIRED BY LOCAL, STATE OR FEDERAL LAWS.
   - 3.6. CONTRACTOR SHALL PROTECT ADJACENT WATER BODIES, COASTAL DUNE SYSTEMS AND PROPERTIES FROM DAMAGE BY SEDIMENTATION OR OTHER POTENTIAL CONSTRUCTION RELATED CAUSES.
   - 3.7. ALL IRRIGATION IN DEMOLITION AREA TO BE CAPPED AND ADJUSTED AS NECESSARY TO ENSURE OVERALL SYSTEM IS NOT AFFECTED.
4. TREE PRESERVATION
   - 4.1. ALL TREES TO BE PRESERVED AS INDICATED ON THE TREE DISPOSITION PLAN SHALL BE PROTECTED BY A TREE PROTECTION BARRICADE, UNLESS OTHERWISE NOTED ON PLAN.
   - 4.2. TREE PROTECTION BARRICADES SHALL BE PROVIDED BY LANDSCAPE CONTRACTOR AROUND THE DRIP LINE OF EXISTING TREES TO BE PRESERVED IN PLACE, AS SHOWN ON PLAN. PRESERVATION BARRICADES SHALL BE LEFT IN PLACE THROUGHOUT DURING ALL PHASES OF CONSTRUCTION.
   - 4.3. PRIOR TO ANY CONSTRUCTION A TREE PROTECTION BARRICADE INSPECTION SHALL BE CONDUCTED BY THE LANDSCAPE ARCHITECT, OWNER OR GOVERNING MUNICIPALITY. REFER TO PLANS FOR TREE PRESERVATION BARRICADE FENCING DETAIL.
   - 4.4. IF EXCAVATION IN THE VICINITY OF A PROTECTED TREE IS REQUIRED, CONTRACTOR SHALL ROOT PRUNE TREES, UNDER THE SUPERVISION OF A CERTIFIED ARBORIST IN ACCORDANCE TO THE FOLLOWING CONDITIONS:
     - 4.4.1. ROOT PRUNE TREES A MINIMUM OF EIGHT (8) WEEKS PRIOR TO CONSTRUCTION. PRIOR TO ROOT PRUNING, THOROUGHLY WATER THE ROOT ZONE WITH AT LEAST 2 TO 3 INCHES OF WATER FOR 2 TO 3 DAYS PRIOR TO ROOT PRUNING. SEE BELOW FOR RELOCATION TIMELINE.
       1. PROVIDE TEMPORARY IRRIGATION FOR EACH TREE THROUGHOUT THE DURATION OF CONSTRUCTION.
       2. ROOT PRUNE TREES, SHOWN ON PLAN IN AREAS WHERE ROOTS WILL CONFLICT WITH CONSTRUCTION ACTIVITY. PRUNING OF ROOTS SHOULD BE DONE IN A MANNER TO PRESERVE THE GREATEST AMOUNT OF THE ROOT BASE AS POSSIBLE.
       3. BACKFILL TRENCH WITH PLANTING SOIL.
       4. FERTILIZE WITHIN THE ROOT ZONE (SEE BELOW).
     - 4.4.2. ROOT PRUNING SHALL BE ACCOMPLISHED BY DIGGING A TRENCH AROUND THE TREE IN AREAS WHERE PROPOSED SITE WORK WILL BE PERFORMED. TRENCHING SHALL BE AT A MINIMUM OF 24" DEEP. ROOT PRUNE ONLY WITH A MECHANICAL ROOT-PRUNING SAW OR A TRENCHER WITH A MAXIMUM TRENCH WIDTH OF 8".
     - 4.4.3. ALL EXPOSED ROOTS SHALL BE CUT OFF SMOOTHLY, WITH SHARP INSTRUMENTS. BACKFILL TRENCHES WITH SOIL CONSISTING OF 30% SILICA SAND AND 70% MUCK. WATER THOROUGHLY AFTER ROOT PRUNING, AND ONCE WEEKLY DURING THE ROOT REGENERATION PERIOD, WITH A SOLUBLE FERTILIZER THAT HAS A 20.20.20 ANALYSIS AT MANUFACTURER'S RECOMMENDED RATE.
   - 4.5. THE CONTRACTOR SHALL FIELD STAKE THE LIMIT OF ROOT PRUNING. LIMITS OF ROOT PRUNING SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO ANY EXCAVATION. DO NOT ROOT PRUNE FOR IRRIGATION OR ELECTRICAL LINES WITHIN DRIP LINES OF EXISTING TREES. COORDINATE ALL TRENCHING REQUIRED FOR UTILITY WORK WITH THE LANDSCAPE PLANS.
   - 4.6. ROOT PRUNING SHALL OCCUR IN ACCORDANCE WITH TREE RELOCATION NOTES AS NOTED ON PLANS.
5. PLANTING SOIL
   - 5.1. ALL TREES SHALL BE PLANTED WITH A MINIMUM OF 12" TOPSOIL AROUND AND BENEATH THE ROOTBALL.
   - 5.2. ALL TREES SHALL BE PLANTED WITH A MINIMUM OF 6" TOPSOIL AROUND AND BENEATH THE ROOTBALL.
   - 5.3. MINIMUM TOPSOIL SHALL BE 2" FOR SODDED GRASS AREAS.
   - 5.4. PLANTING SOIL MIX SHALL BE A WEED FREE MIX AS FOLLOWS:
     - 5.4.1. DICOT TREES & SHRUBS: 50% SAND, 40% MUCK & 10% PEAT
     - 5.4.2. MONOCOT PALMS: 70% SAND & 30% MUCK
     - 5.4.3. TURF: 80% SAND, 10% PEAT & 10% MUCK
6. LANDSCAPE PLANTING
   - 6.1. THIS PLAN HAS BEEN DESIGNED TO MEET OR EXCEED ALL APPLICABLE CODES.
   - 6.2. THE PLANTING PLAN SHALL BE INSTALLED IN COMPLIANCE WITH ALL EXISTING CODES AND APPLICABLE DEED RESTRICTIONS.
   - 6.3. PLANT MATERIAL: ALL PLANT MATERIAL SHALL BE FLORIDA #1 OR BETTER AS ESTABLISHED BY "GRADES AND STANDARDS FOR NURSERY PLANTS" OF THE STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE.
   - 6.4. ALL PLANT MATERIAL SHALL BE TRUE TO THE BOTANICAL NAME, GENUS, SPECIES AND/OR HYBRID DESIGNATION.
   - 6.5. ALL TREES, SHRUBS AND GROUNDCOVERS SHALL BE OF THE SIZES (HEIGHT & SPREAD) AS SPECIFIED IN THE PLANT LIST. CONTAINER SIZE IS FOR REFERENCE PURPOSES ONLY. ALL PLANT MATERIAL SHALL MEET OR EXCEED THE MINIMUM SIZES AT INSTALLATION, AS SPECIFIED IN THE PLANT LIST.
   - 6.6. QUANTITIES LISTED ON THE PLANT LIST ARE FOR ESTIMATING PURPOSES. CONTRACTOR SHALL VERIFY ALL QUANTITIES. MULCH, TOPSOIL, FERTILIZER, ETC. SHALL BE INCLUDED IN THE UNIT COST OF THE PLANTS.
   - 6.7. WHERE THERE IS A DISCREPANCY EITHER IN QUANTITIES, PLANT NAMES, SIZES OR SPECIFICATIONS BETWEEN THE PLAN OR PLANT LIST, THE PLAN TAKES PRECEDENCE.
   - 6.8. ALL SUBSTITUTIONS AND CHANGES SHALL BE APPROVED IN WRITING PRIOR TO INSTALLATION. ANY DISCREPANCIES BETWEEN PLANS, SITE AND SPECIFICATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE LANDSCAPE ARCHITECT, THE OWNER AND/OR GOVERNING MUNICIPALITY.
   - 6.9. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FINAL GRADING OF ALL ASSOCIATED PLANTING AREAS.
   - 6.10. AFTER FINAL GRADE, LANDSCAPE AREAS ARE TO BE RAKED TO A DEPTH OF 6". ALL ROCK AND FOREIGN INORGANIC MATERIALS SHALL BE REMOVED AND DISPOSED OF PROPERLY OFF-SITE.
   - 6.11. ALL PLANTING HOLES TO BE HAND DUG EXCEPT WHERE MACHINE DUG HOLES WILL NOT ADVERSELY AFFECT EXISTING TREES, DAMAGE UTILITIES OR OTHER IMPROVEMENTS.
   - 6.12. ALL PLANTING BEDS IN OPEN AREAS AND AROUND BUILDING FOUNDATIONS SHALL BE EXCAVATED TO A DEPTH OF TWENTY-FOUR INCHES (24") AND BACK FILLED WITH SOIL MIX AS SPECIFIED IN SECTION 5.00. PLANTING BED SHALL BE FREE FROM ROCK, CONSTRUCTION DEBRIS OR OTHER EXTRANEOUS MATERIAL.
   - 6.13. ALL PLANTING BEDS IN MEDIANS, HARDSCAPE AREAS OR AREAS ENCOMPASSED BY IMPERVIOUS MATERIAL SHALL BE EXCAVATED TO A DEPTH OF THIRTY-SIX INCHES (36") OR UNTIL NATIVE SOILS ENCOUNTERED TO ENSURE DRAINAGE. BACK FILL WITH SOIL MIX AS SPECIFIED IN SECTION 5.00. PLANTING BED SHALL BE FREE FROM ROCK, CONSTRUCTION DEBRIS OR OTHER EXTRANEOUS MATERIAL.
   - 6.14. EXCAVATE PLANTING PITS TO A DEPTH SO THAT THE TRUNK FLARE AND FIRST ORDER LATERAL ROOT(S) WILL BE PLANTED AT FINISH GRADE OR SLIGHTLY HIGHER. ADVENTITIOUS ROOTS ARE NOT CONSIDERED FIRST ORDER ROOTS.
   - 6.15. BURLAP, SYNTHETIC STRING, CORDS AND/OR LIFTING ROPES SHALL BE REMOVED FROM THE ROOTBALLS BEFORE ANY TREES ARE PLANTED. THE TOP 1/3RD OF BURLAP MUST BE REMOVED FROM HE TOP OF THE ROOTBALLS. THE TOP 1/3RD OF WIRE BASKETS SHALL BE COMPLETELY REMOVED AND THE BOTTOM 2/3RDS SHALL BE CUT BEFORE THE TREES ARE INSTALLED.
   - 6.16. NO PLUNGING OF ANY TREE OR PALM WILL BE ACCEPTED.
   - 6.17. NO PLANT MATERIAL WILL BE ACCEPTED SHOWING EVIDENCE OF CABLE, CHAIN MARKS, EQUIPMENT SCARS, OR OTHERWISE DAMAGED.
   - 6.18. PLANT MATERIAL WILL NOT BE ACCEPTED WHEN THE BALL OF EARTH SURROUNDING ITS ROOTS HAS BEEN CRACKED, BROKEN OR OTHERWISE DAMAGED.
   - 6.19. ALL TREES SPECIFIED AS FIELD GROWN OR B&B TREES SHALL BE ROOT-PRUNED AT THE NURSERY A MINIMUM OF (8) WEEKS PRIOR TO PLANTING.
   - 6.20. ALL PLANT MATERIAL PLANTED WITHIN THE SIGHT DISTANCE TRIANGLE AREAS SHALL BE MAINTAINED TO PROVIDE UNOBSTRUCTED CROSS-VISIBILITY AT A HORIZONTAL LEVEL BETWEEN 30 INCHES AND 8 FEET ABOVE ADJACENT STREET GRADE.
   - 6.21. NO CANOPY TREES SHALL BE PLANTED WITHIN 12 FEET OF A LIGHT POLE. NO PALM SPECIES SHALL BE PLANTED WITHIN 6 FEET OF A LIGHT POLE.
   - 6.22. GROUND COVER PLANTINGS SHALL PROVIDE NOT LESS THAN 50 PERCENT COVERAGE IMMEDIATELY UPON PLANTING AND 100 PERCENT COVERAGE WITHIN 6 MONTHS AFTER PLANTING.
   - 6.23. TREES AND PALMS SHALL BE MAINTAINED TO ALLOW FOR CLEAR PASSAGE 8' IN ALL PEDESTRIAN AREAS.
   - 6.24. ALL LANDSCAPE MATERIAL SHALL BE SETBACK A MINIMUM OF 10' FROM ANY FIRE HYDRANT.
   - 6.25. CONTRACTOR SHALL REMOVE ALL NURSERY STAKES, CONDUIT, FLAGGING AND NURSERY TAPE PRIOR TO STAKING.
   - 6.26. CONTRACTOR SHALL STAKE & GUY ALL TREES AND PALMS AT TIME OF PLANTING AS PER THE APPROPRIATE DETAIL. CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE AND/OR REPAIR OF ALL STAKING AND GUYING DURING WARRANTY PERIOD AND REMOVAL & DISPOSAL OF STAKING AFTER ESTABLISHMENT/WARRANTY PERIOD.
   - 6.27. TREES THAT CANNOT STAND WITHOUT THE SUPPORT OF STAKES AND/OR GUYS SHALL BE REJECTED.
7. TURF GRASSES
   - 7.1. ALL AREAS NOT USED FOR BUILDINGS, VEHICULAR USE AREAS, WALKS OR PLANTING BEDS SHALL BE GRASSED. GRASSING SHALL EXTEND TO ANY ABUTTING STREET PAVEMENT EDGE AND TO THE MEAN WATERLINE OF ANY ABUTTING CANAL, LAKE OR WATERWAY. REFER TO PLANTING SCHEDULE FOR ESTIMATED QUANTITY AND SPECIES.
8. MULCH & FERTILIZER
   - 8.1. ALL PLANTING BEDS AND WATER BASINS FOR TREES SHALL BE COVERED WITH A 3" MINIMUM DEPTH OF SHREDDED FLORI-MULCH, MELALEUCA OR EUCALYPTUS MULCH GRADE 'B' OR BETTER, UNLESS OTHERWISE SPECIFIED.
   - 8.2. INDIVIDUAL TREES PLANTED IN LAWN AREAS SHALL BE MULCHED WITH A MINIMUM 3' DIAMETER MULCH RING.
   - 8.3. MULCH SHALL NOT BE INSTALLED WITHIN 3" OF TREE TUNKS.
   - 8.4. FERTILIZER MIX AS FOLLOWS:
     - 8.4.1. DICOT TREES & SHRUBS: NPK 18-4-2, SLOW RELEASE W/ MICRONUTRIENTS
     - 8.4.2. MONOCOT PALMS: NPK 8-2-12, SLOW RELEASE W/ MICRONUTRIENTS
     - 8.4.3. TURF: NPK 16-4-8, SLOW RELEASE W/ MICRONUTRIENTS
9. WATERING
   - 9.1. ALL LANDSCAPED AREAS WILL BE IRRIGATED BY AN UNDERGROUND, AUTOMATIC, RUST-FREE IRRIGATION SYSTEM PROVIDING 100% COVERAGE AND 50% SPRAY OVERLAP. THE SYSTEM SHALL BE MAINTAINED IN GOOD WORKING ORDER AND DESIGNED TO MINIMIZE WATER ON IMPERVIOUS SERVICES AND NOT OVERSPRAY WALKWAYS. A RAIN SENSOR DEVICE SHALL BE INSTALLED TO OVERRIDE THE IRRIGATION CYCLE OF THE SYSTEM WHEN ADEQUATE RAINFALL HAS OCCURRED.
   - 9.2. ALL PLANT MATERIAL SHALL BE WATERED IN AT TIME OF PLANTING IN ACCORDANCE WITH STANDARD NURSERY PRACTICES. IN ADDITION, CONTRACTOR WILL CONTINUE THE WATERING OF PLANT MATERIAL UNTIL SUBSTANTIAL COMPLETION AND THE LANDSCAPE IS TURNED OVER TO THE OWNER.
10. PROJECT CLOSEOUT
    - 10.1. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER. UPON FINAL CLEAN UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEPT BROOM CLEAN.
    - 10.2. THE CONTRACTOR SHALL RESTORE, REPLACE OR AS DIRECTED BY THE LANDSCAPE ARCHITECT, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY THE WORK OF THE CONTRACTOR, HIS EQUIPMENT, EMPLOYEES OR THOSE OF HIS SUB-CONTRACTORS. THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THAT OF THE EXISTING ADJACENT AREAS. THE RESTORATION WORK SHALL BE AT THE CONTRACTOR'S EXPENSE. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.
    - 10.3. WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING PROGRESS OF THE WORK. THESE AREAS SHALL BE KEPT IN A CLEAN AND NEAT CONDITION.
    - 10.4. THE CONTRACTOR SHALL MAINTAIN ACCURATE AND COMPLETE RECORDS OF WORK ITEMS COMPLETED.
    - 10.5. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE LANDSCAPE ARCHITECT OF RECORD COMPLETE SETS OF "AS-BUILT" CONSTRUCTION DRAWINGS. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONED LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS INCLUDING PRODUCT/EQUIPMENT AS SPECIFIED OR REVISED DURING THE SHOP DRAWING SUBMITTAL PROCESS. AS-BUILT DRAWINGS SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR.
11. GUARANTEE
    - 11.1. ALL NEW PLANT MATERIAL SHALL BE GUARANTEED FOR 1 YEAR FROM TIME OF FINAL ACCEPTANCE OF PROJECT. ANY PLANT MATERIAL NOT IN A HEALTHY GROWING CONDITION WILL BE REPLACED IN KIND BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER WITHIN 10 DAYS OF NOTIFICATION.
    - 11.2. FOR ALL REPLACEMENT PLANT MATERIAL, THE WARRANTY PERIOD SHALL BE EXTENDED AN ADDITIONAL 90 DAYS BEYOND THE ORIGINAL WARRANTY PERIOD. REPLACEMENT MATERIAL SHALL BE REPLACED IN KIND AS IT RELATES TO SPECIES, QUANTITY AND SIZE.
    - 11.3. ALL TREES THAT LEAN OR ARE BLOWN OVER, CAUSED BY WINDS LESS THAN 74 MPH AS DETERMINED BY THE NATIONAL HURRICANE CENTER, WILL BE RE-SET AND BRACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

FILE NAME:
DATE STAMP:

This item has been digitally signed and sealed by **ERIC D. HARRISON, RLA**, on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

90% CONSTRUCTION DOCUMENTS

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

ARCHITECT OF RECORD

PGAL, Inc.
791 Park of Commerce Blvc
Suite 400
Boca Raton, FL 33487
T 561 988 4002
www.pgal.com

CONSTRUCTION MANAGER/BUILDER

CORE CONSTRUCTION
1641 Worthington Rd
West Palm Beach
FL 33409

PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

ERIC DOUGLAS HARRISON
No. 6667129
STATE OF FLORIDA
LANDSCAPE ARCHITECT

DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents

CONSULTANT

chen moore and associates
500 Australian Avenue South
Suite 850
West Palm Beach, FL 33401
561.746.6900
www.chenmoore.com

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL
33404

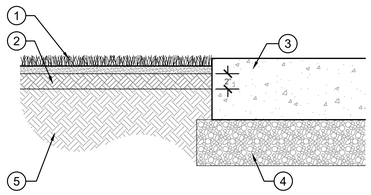
PROJECT NUMBER
1007657.00

SHEET TITLE
LANDSCAPE SPECIFICATIONS

SHEET NUMBER
LD-2
7 11

LANDSCAPE DETAILS

1. SOD (AS SPECIFIED)
2. PLANTING MIX: 80% SILICA SAND, 20% ORGANIC
3. SIDEWALK OR CURB
4. SUB-BASE
5. NATIVE SOIL

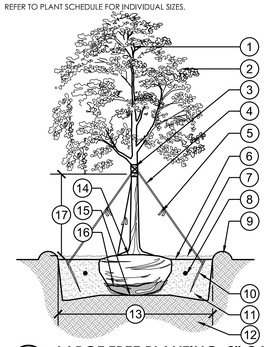


1 SOD PLANTING

1 1/2" = 1'-0" 329301-03

CALIPER MEASUREMENTS NOTES:
1. CALIPER MEASUREMENT IS 6" FROM TOP OF ROOT BALL FOR TREES WITH 6" CALIPER OR LESS.
2. CALIPER MEASUREMENT IS12" FROM TOP OF ROOT BALL FOR TREES WITH 6" CALIPER GREATER.

REFER TO PLANT SCHEDULE FOR INDIVIDUAL SIZES.



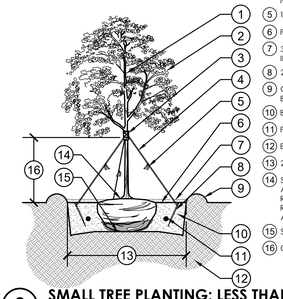
1. DO NOT PRUNE CENTRAL LEADER
2. PRUNE DAMAGED OR DEAD WOOD IMMEDIATELY PRIOR TO PLANTING USING ACCEPTABLE NURSERY PRACTICES OR AS DIRECTED BY THE LANDSCAPE ARCHITECT
3. PROTECT TRUNK WITH 3 LAYERS OF BURLAP MINIMUM
4. 1" WIDE MIN. NYLON STRAPPING AT EQUAL SPACING (3 PER TREE) GUY WIRES SHALL NOT TO BE USED
5. FLUORESCENT MARKING FLAG
6. FINISH GRADE
7. 3" LAYER OF SPECIFIED MULCH: DO NOT INSTALL WITHIN 3" OF TREE TRUNK
8. FERTILIZER TABLET IF APPLICABLE
9. CONSTRUCT TEMPORARY 3" WATERING BASIN
10. 2"X4"X8" STAKE: SET 2" BELOW FINISH GRADE
11. SPECIFIED SOIL MIX
12. EXISTING SOIL
13. 2X DIAMETER OF THE ROOTBALL
14. SET CROWN OF ROOT BALL SLIGHTLY ABOVE SURROUNDING FINISH GRADE. REMOVE TOP 2/3 OF BURLAP FROM ROOTBALL: TRUNK TAPER SHALL BE VISIBLE AT TIME OF INSTALLATION
15. SET ROOTBALL ON UNDISTURBED SOIL
16. REMOVE TOP 2/3 OF BURLAP/WIRE BASKET FROM ROOTBALL
17. CLEAR TRUNK: REFER TO PLANT SCHEDULE

2 LARGE TREE PLANTING: 2" CALIPER AND GREATER

1/4" = 1'-0" 329301-17

CALIPER MEASUREMENTS NOTES:
1. CALIPER MEASUREMENT IS 6" FROM TOP OF ROOT BALL FOR TREES WITH 6" CALIPER OR LESS.
2. CALIPER MEASUREMENT IS12" FROM TOP OF ROOT BALL FOR TREES WITH 6" CALIPER GREATER.

REFER TO PLANT SCHEDULE FOR INDIVIDUAL SIZES.



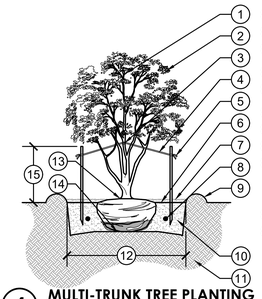
1. DO NOT PRUNE CENTRAL LEADER
2. PRUNE DAMAGED OR DEAD WOOD IMMEDIATELY PRIOR TO PLANTING USING ACCEPTABLE NURSERY PRACTICES OR AS DIRECTED BY THE LANDSCAPE ARCHITECT
3. PROTECT TRUNK WITH 3 LAYERS OF BURLAP MINIMUM
4. 1" WIDE MIN. NYLON STRAPPING AT EQUAL SPACING (3 PER TREE) GUY WIRES SHALL NOT TO BE USED
5. 1/2"X2' FLUORESCENT MARKER
6. FINISH GRADE
7. 3" LAYER OF SPECIFIED MULCH: DO NOT INSTALL WITHIN 3" OF TREE TRUNK
8. 2"X4"X8" STAKE: SET 2" BELOW FINISH GRADE
9. CONSTRUCT TEMPORARY 3" WATERING BASIN
10. BACKFILL WITH SPECIFIED SOIL MIX
11. FERTILIZER TABLET IF APPLICABLE
12. EXISTING SOIL
13. 2X DIAMETER OF THE ROOTBALL
14. SET CROWN OF ROOT BALL SLIGHTLY ABOVE SURROUNDING FINISH GRADE. REMOVE TOP 2/3 OF BURLAP FROM ROOTBALL: TRUNK TAPER SHALL BE VISIBLE AT TIME OF INSTALLATION
15. SET ROOTBALL ON UNDISTURBED SOIL
16. CLEAR TRUNK: REFER TO PLANT SCHEDULE

3 SMALL TREE PLANTING: LESS THAN 2" CALIPER

1/4" = 1'-0" 329301-18

CALIPER MEASUREMENTS NOTES:
1. CALIPER MEASUREMENT IS 6" FROM TOP OF ROOT BALL FOR TREES WITH 6" CALIPER OR LESS.
2. CALIPER MEASUREMENT IS12" FROM TOP OF ROOT BALL FOR TREES WITH 6" CALIPER GREATER.

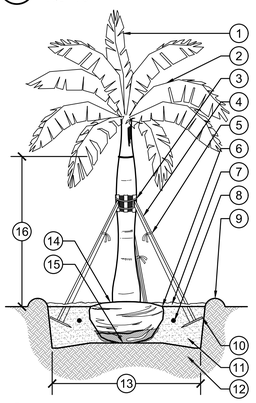
REFER TO PLANT SCHEDULE FOR INDIVIDUAL SIZES.



1. DO NOT PRUNE CENTRAL LEADER
2. PRUNE DAMAGED OR DEAD WOOD IMMEDIATELY PRIOR TO PLANTING USING ACCEPTABLE NURSERY PRACTICES OR AS DIRECTED BY THE LANDSCAPE ARCHITECT
3. PROTECT TRUNK WITH 3 LAYERS OF BURLAP MINIMUM
4. 1" WIDE MIN. NYLON STRAPPING AT EQUAL SPACING (3 PER TREE) GUY WIRES SHALL NOT TO BE USED
5. 1/2"X2' FLUORESCENT MARKER
6. FINISH GRADE
7. 3" LAYER OF SPECIFIED MULCH. DO NOT INSTALL WITHIN 3" OF TREE TRUNK
8. FERTILIZER TABLET IF APPLICABLE
9. CONSTRUCT TEMPORARY 3" WATERING BASIN
10. BACKFILL WITH SPECIFIED SOIL MIX
11. EXISTING SOIL
12. 2X DIAMETER OF THE ROOTBALL
13. SET CROWN OF ROOT BALL SLIGHTLY ABOVE SURROUNDING FINISH GRADE. REMOVE TOP 2/3 OF BURLAP FROM ROOTBALL: TRUNK TAPER SHALL BE VISIBLE AT TIME OF INSTALLATION
14. SET ROOTBALL ON UNDISTURBED SOIL
15. CLEAR TRUNK: REFER TO PLANT SCHEDULE

4 MULTI-TRUNK TREE PLANTING

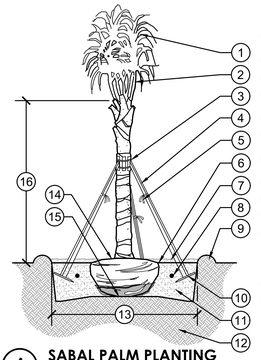
1/4" = 1'-0" 329301-19



1. TERMINAL BUD/FROND.
2. UNTIE FRONDS PRIOR TO INSPECTION.
3. METAL STRAPS SECURING 2"x4" WOOD BATTENS. MIN. 5 LAYERS BURLAP. TOE NAIL BRACES TO 2"X4" WOOD BATTENS. DO NOT NAIL STAKES DIRECTLY TO TRUNK.
4. 2"x4" WOOD BRACE AT EQUAL SPACING (3 PER TREE).
5. 1/2'x2' FLUORESCENT MARKER.
6. FINISH GRADE.
7. 3" LAYER OF SPECIFIED MULCH. DO NOT INSTALL WITHIN 3" OF TREE TRUNK.
8. FERTILIZER TABLET IF APPLICABLE. REFER TO SPECIFICATIONS.
9. CONSTRUCT TEMPORARY 3" WATERING BASIN.
10. 2"X4"X8" STAKE. SET 2" BELOW FINISH GRADE.
11. BACKFILL WITH SPECIFIED SOIL MIX.
12. EXISTING SOIL.
13. 2x DIAMETER OF THE ROOTBALL
14. SET CROWN OF ROOT BALL 0'-2" ABOVE SURROUNDING FINISH GRADE. REMOVE TOP 2/3 OF BURLAP FROM ROOTBALL. TRUNK TAPER SHALL BE VISIBLE AT TIME OF INSTALLATION.
15. SET ROOTBALL ON UNDISTURBED SOIL.
16. CLEAR TRUNK/GRAY WOOD. REFER TO PLANT SCHEDULE

5 LARGE PALM PLANTING DETAIL

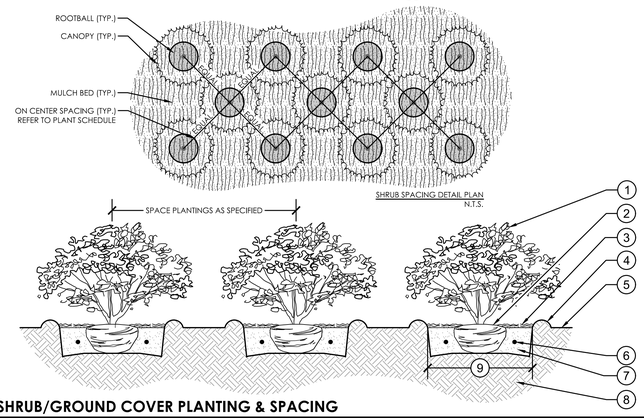
1/4" = 1'-0" 329301-25



1. DO NOT HURRICANE CUT FRONDS
2. UNTIE FRONDS PRIOR TO INSPECTION
3. METAL STRAPS SECURING 2"x4" WOOD BATTENS. MIN. 5 LAYERS BURLAP. TOE NAIL BRACES TO 2"X4" WOOD BATTENS: DO NOT NAIL STAKES DIRECTLY TO TRUNK
4. 2"X4" WOOD BRACE AT EQUAL SPACING (3 PER TREE)
5. 1/2'X2' FLUORESCENT MARKER
6. FINISH GRADE
7. 3" LAYER OF SPECIFIED MULCH: DO NOT INSTALL WITHIN 3" OF TREE TRUNK
8. FERTILIZER TABLET IF APPLICABLE
9. CONSTRUCT TEMPORARY 3" WATERING BASIN
10. 2"X4"X8" STAKE: SET 2" BELOW FINISH GRADE
11. BACKFILL WITH SPECIFIED SOIL MIX
12. EXISTING SOIL
13. 2X DIAMETER OF THE ROOTBALL
14. SET CROWN OF ROOT BALL 0'-2" ABOVE SURROUNDING FINISH GRADE. REMOVE TOP 2/3 OF BURLAP FROM ROOTBALL: TRUNK TAPER SHALL BE VISIBLE AT TIME OF INSTALLATION
15. SET ROOTBALL ON UNDISTURBED SOIL
16. CLEAR TRUNK: REFER TO PLANT SCHEDULE

6 SABAL PALM PLANTING

1/4" = 1'-0" 329301-21

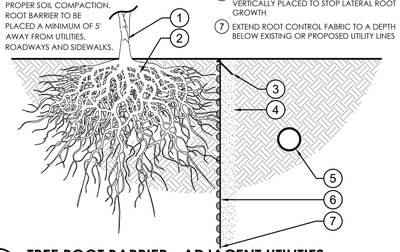


1. PLANT MATERIAL SHALL NOT BE PRUNED PRIOR TO INSTALLATION: AFTER PLANTS HAVE BEEN INSTALLED, EACH PLANT SHALL BE PRUNED FOR UNIFORMITY
2. SET CROWN OF ROOT SLIGHTLY ABOVE SURROUNDING FINISH GRADE: TRUNK TAPER SHALL BE VISIBLE AT TIME OF INSTALLATION
3. 3" LAYER OF SPECIFIED MULCH: DO NOT INSTALL WITHIN 3" OF TREE TRUNK
4. CONSTRUCT TEMPORARY 3" WATERING BASIN
5. FINISH GRADE
6. FERTILIZER TABLET IF APPLICABLE.
7. BACKFILL WITH SPECIFIED SOIL MIX
8. EXISTING SOIL
9. 2X DIAMETER OF THE ROOTBALL

7 SHRUB/GROUND COVER PLANTING & SPACING

1" = 1'-0" 329301-08

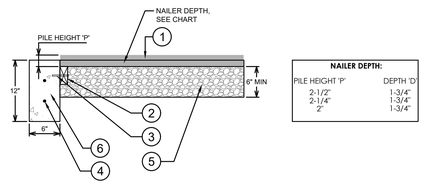
INSTALLATION NOTES
1. CONTACT UTILITY COMPANY AND ENSURE UTILITY LINES ARE PROPERLY LOCATED PRIOR TO DIGGING OR TRENCHING.
2. FOR EXISTING TREES, CONSULT A PROFESSIONAL ARBORIST IF ROOT TRIMMING IS REQUIRED.
3. INSTALL & COVER BIOBARRIER WITHIN 12 HOURS AFTER OPENING. HIGH TEMPERATURES AND DIRECT SUNLIGHT CAN REDUCE EFFECTIVE PRODUCT LIFE.
4. INSTALL TYPAR BIOBARRIER ROOT CONTROL FABRIC WITH NODULES FACING TOWARD ROOT SOURCE.
5. BACKFILL AND TAMP FIRMLY TO ELIMINATE SOIL SETTLING. WET SOIL, IF NECESSARY, TO ENSURE PROPER SOIL COMPACTION.
6. ROOT BARRIER TO BE PLACED A MINIMUM OF 5' AWAY FROM UTILITIES, ROADWAYS AND SIDEWALKS.



1. PROPOSED OR EXISTING TREE
2. FUTURE OR EXISTING ROOT STRUCTURE
3. SECURE FABRIC EVERY 2'-0" WITHIN 1/4" OF TOP EDGE
4. EXCAVATE TRENCHES A MINIMUM OF 4" WIDE: TRENCHES MUST BE A MINIMUM LENGTH OF MATURE PLANT CANOPY PLUS 10 FEET, CENTERED ON THE ROOT SOURCE AND ADJACENT TO PROTECTION AREA
5. PROPOSED OR EXISTING UTILITIES
6. TYPAR BIOBARRIER ROOT CONTROL FABRIC VERTICALLY PLACED TO STOP LATERAL ROOT GROWTH
7. EXTEND ROOT CONTROL FABRIC TO A DEPTH BELOW EXISTING OR PROPOSED UTILITY LINES

8 TREE ROOT BARRIER - ADJACENT UTILITIES

3/4" = 1'-0" 329413.23-01



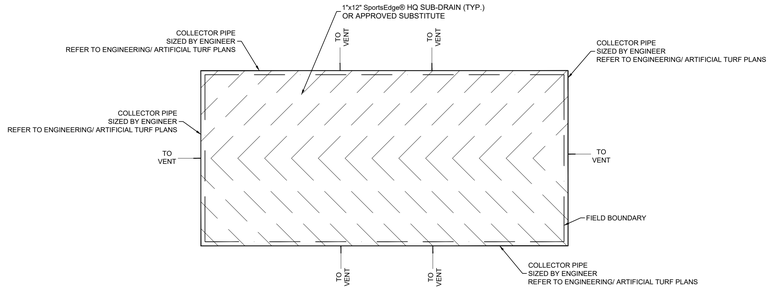
NAILER DEPTH:

PILE HEIGHT 'P'	DEPTH 'D'
2-1/2"	1-3/4"
2-1/4"	1-3/4"
2"	1-3/4"

1. FIELDTURF SYSTEM WITH 1-1/4" INFILL
2. 2"X4" COMPOSITE NAILER
3. 1/4"X3" PERMA-GRIP NAILS SPACING TO BE WITHIN 6" OF THE ENDS AND 24"-36" IN THE FIELD
4. 2-#4 REBAR CONTINUOUS
5. 6" STONE BASE (ANGULAR #57 STONE)
6. 6"X12" CONCRETE PREIMETER CURB

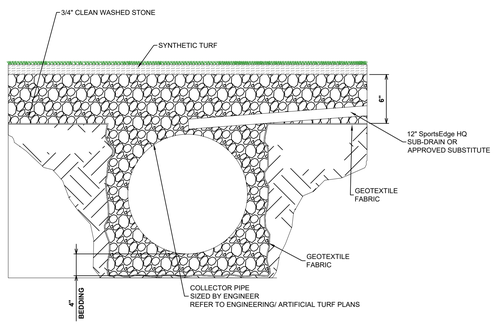
9 FIELDTURF CLASSIC HD ARTIFICIAL TURF

1" = 1'-0" 321823-06



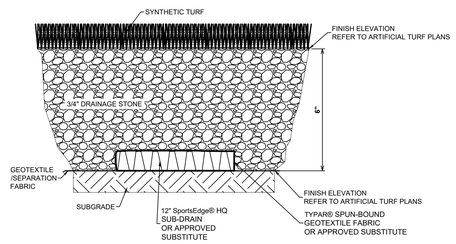
10 TYPICAL DRAINAGE LAYOUT - SPORTSEDGE HQ-12 ATHLETIC FIELD INSTALLATION

N.T.S.



11 12" TRIP DRAIN TO COLLECTOR PIPE

N.T.S.



12 SYNTHETIC TURF FIELD SECTION

N.T.S.

FILE NAME:
DATE STAMP:

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

ARCHITECT OF RECORD

PGAL, Inc.
791 Park of Commerce Blvc
Suite 400
Boca Raton, FL 33487
T 561 988 4002
www.pgal.com

CONSTRUCTION MANAGER/BUILDER

CORE CONSTRUCTION
1641 Worthington Rd
West Palm Beach
FL 33409

PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

ERIC DOUGLAS HARRISON No. 6667129 STATE OF FLORIDA LANDSCAPE ARCHITECT

This item has been digitally signed and sealed by **ERIC D. HARRISON, RLA**, on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents

CONSULTANT

chen moore and associates
500 Australian Avenue South
Suite 850
West Palm Beach, FL 33401
561.746.6900
www.chenmoore.com

PROJECT STATUS

90% CONSTRUCTION DOCUMENTS

DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

1007657.00

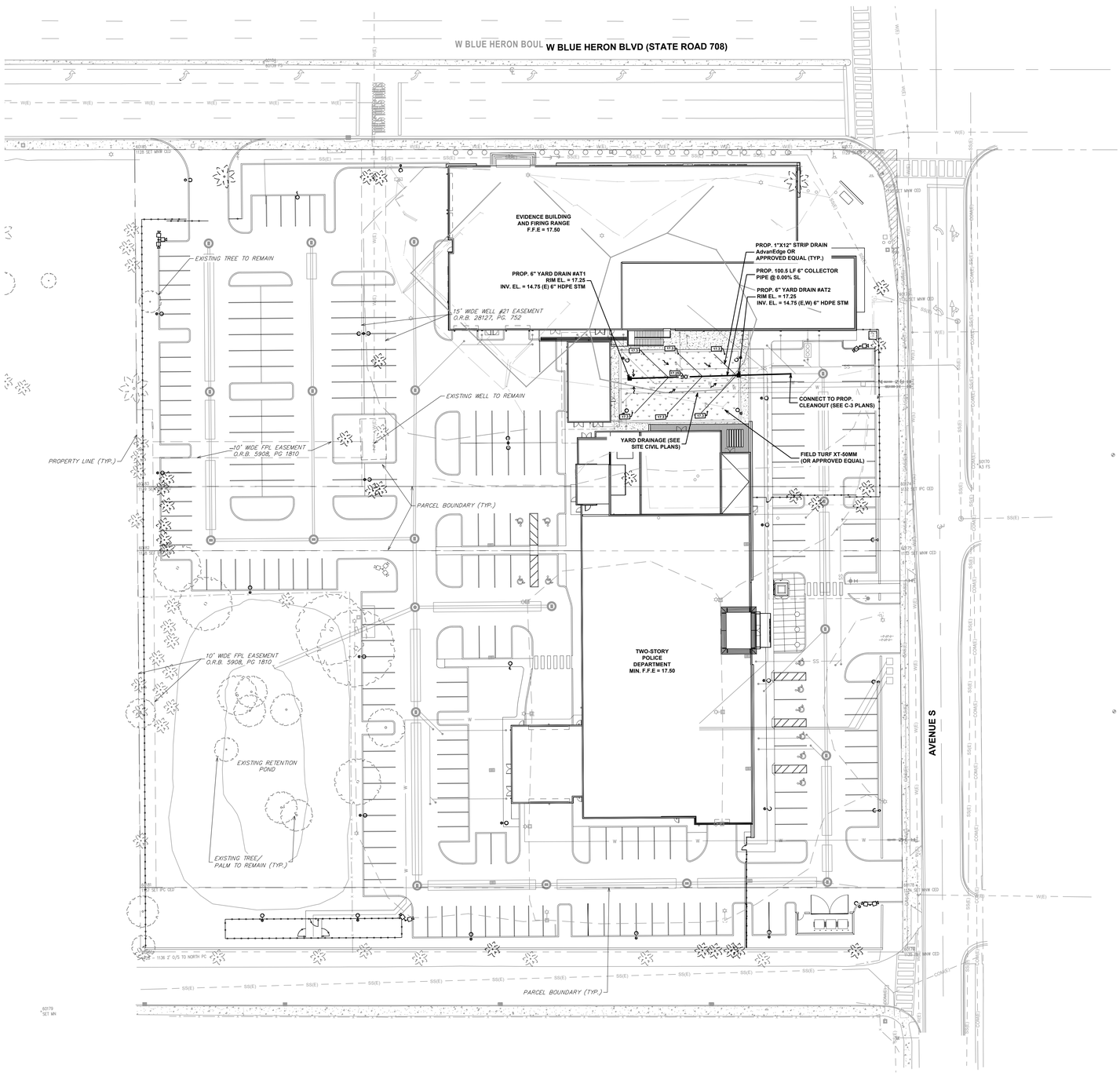
SHEET TITLE

LANDSCAPE DETAILS

SHEET NUMBER

LD-3

90% CONSTRUCTION DOCUMENTS



GRAPHIC SCALE

0 15 30 40

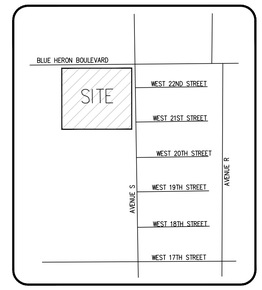
1 INCH = 30 FEET

Sunshine 811

Call 811 or visit sunshine811.com two full business days before digging to have buried facilities located and marked.

Check positive response codes before you dig!

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988)



LOCATION MAP
N.T.S.

LEGEND

- ARTIFICIAL TURF
- YARD DRAIN
- SD — STORM PIPE

FILE NAME:
DATE STAMP:

90% CONSTRUCTION DOCUMENTS

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

ARCHITECT OF RECORD

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PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

SUZANNE M. DOMBROWSKI, PE
LICENSE NO. 69918
DATE: 10.24.2025

DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents

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Suite 850
West Palm Beach, FL 33401
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www.chenmoore.com

PROJECT STATUS

90% CONSTRUCTION DOCUMENTS

DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL
33404

PROJECT NUMBER

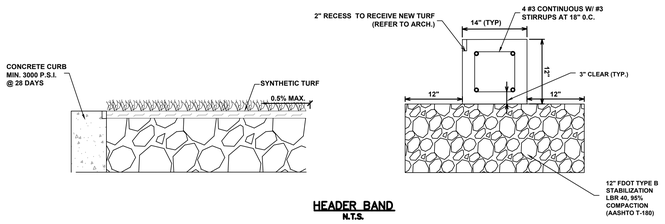
1007657.00

SHEET TITLE

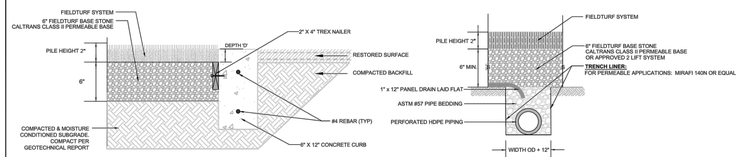
ARTIFICIAL TURF DRAINAGE PLAN

SHEET NUMBER

LD-4



HEADER BAND
N.T.S.



SYNTHETIC TURF EDGE DETAIL - 6" x 12" CURB

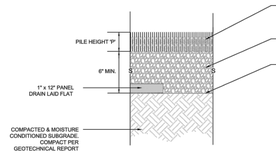
SCALE: NTS

NAILER DEPTH:

PILE HEIGHT 7"	DEPTH 5"
2-1/2"	1-5/8"
2-1/4"	1-3/8"
2"	1-1/8"

TYPICAL FIELDTURF TRENCH SECTION

SCALE: NTS



TYPICAL FIELD SECTION

SCALE: NTS

SCALE:	NTS
Job No.	
Plot Date	10-18-17
Drawn by	FAB
Proj. Engr.	
Appr. by	

FieldTurf — A Tarkett Sports Company

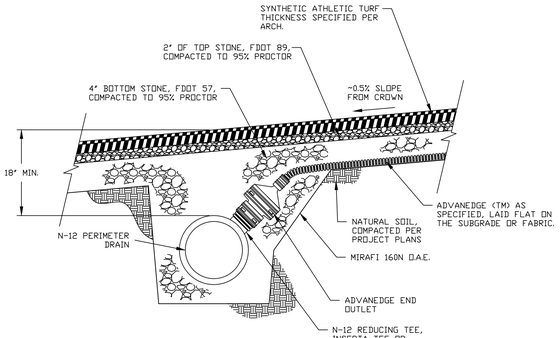
PROJECT: CA. PERMEABLE BASE STANDARD DETAILS

SOUTHERN CALIFORNIA

DETAIL: FIELD, HEADER, & CURB

SHEET 13 OF 44

SYNTHETIC TURF ATHLETIC FIELD PERIMETER DRAIN CONNECTION



REV.	DESCRIPTION	BY	MM/DD/YY	CHK'D
1	FORMATTING UPDATES AND RENAMES	TJR	03/09/16	

©2016 ADS, INC.

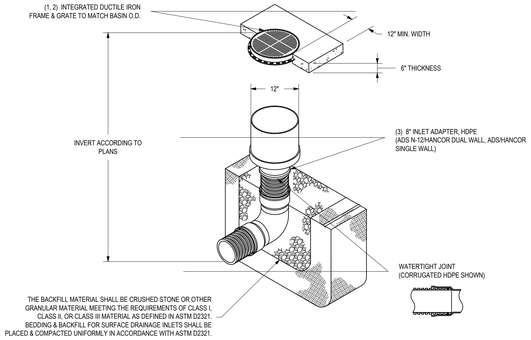
ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT ADS COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THE PROJECT. ADS DOES NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OF THE INFORMATION PROVIDED HEREIN. ADS SHALL PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

SYNTHETIC TURF ATHLETIC FIELD PERIMETER DRAIN CONNECTION (APPARENDIX)	
DRAWING NUMBER:	STD-1223

ADS — Advanced Drainage Systems, Inc. — 4640 TRUEMAN BLVD HILLIARD, OHIO 43026

DRAWN BY	AVH
DATE	08.26.11
SCALE	NTS
SHEET	1 OF 1

NYLOPLAST INLINE DRAIN WITH PEDESTRIAN GRATE



1 - 12" - 30" PEDESTRIAN GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - 12" - 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12HANCOR DUAL WALL), N-12 WT, & PVC SEWER (4" - 24").
4 - 12" - 24" PEDESTRIAN GRATES SHALL MEET H-10 LOAD RATING. 30" PEDESTRIAN GRATE SHALL MEET H-20 LOAD RATING (SEE DRAWING NO. 7003-110-022 FOR H-20 TRAFFIC LOAD GUIDELINES).

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DRAWN BY	EBC	MATERIAL	
DATE	04-20-07		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-15-16		
DWG SIZE	A	SCALE 1:40	SHEET 1 OF 1

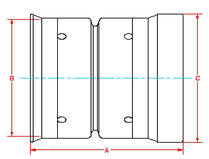
ADS Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com

TITLE: INLINE DRAIN WITH PEDESTRIAN GRATE QUICK SPEC INSTALLATION DETAIL

DWG NO. 7003-110-037 REV D

DUAL WALL SNAP END CAP 4" - 10" DIAMETER

PART #	PIPE SIZE	A	B	C
0667AA	6 in (150 mm)	8.6 in (218 mm)	7.0 in (177 mm)	7.6 in (194 mm)
0867AA	8 in (200 mm)	9.6 in (245 mm)	9.2 in (233 mm)	10.1 in (257 mm)
1067AA	10 in (250 mm)	10.8 in (273 mm)	11.6 in (294 mm)	12.1 in (308 mm)



NOTE: ALL FITTINGS DIMENSIONS ARE FOR REFERENCE ONLY

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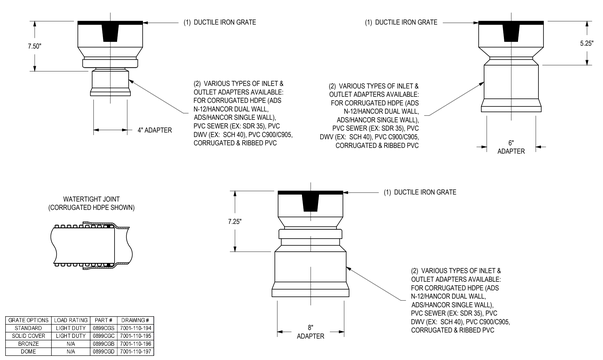
ADS — Advanced Drainage Systems, Inc.

DRAWING #:	2115	
DRAWN BY:	JCB	09.05.06
APPROVED BY:	JCB	07.09.07
REVISIONS:	JCB	07.09.07

NYLOPLAST 8" INLINE DRAIN: 2708AG _ _ X



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
STANDARD	LIGHT DUTY	0899CGS	7005-110-194
SOLID COVER	LIGHT DUTY	0899CGC	7005-110-195
BRONZE	N/A	0899CGB	7005-110-196
DOME	N/A	0899CGD	7005-110-197

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC.
3 - DIMENSIONS ARE FOR REFERENCE ONLY.
4 - ACTUAL DIMENSIONS MAY VARY.

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DRAWN BY	CJA	MATERIAL	
DATE	06-25-09		
REVISED BY	CCA	PROJECT NO./NAME	
DATE	07-19-13		
DWG SIZE	A	SCALE NTS	SHEET 1 OF 1

ADS Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com

TITLE: 8 IN INLINE DRAIN DESIGN DETAILS

DWG NO. 7003-110-000 REV G

Section 2722

Engineered Surface Drainage Products

GENERAL
PVC surface drainage inlets shall be of the inline drain type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

MATERIALS
The inline drain required for this contract shall be manufactured from PVC pipe stock, utilizing a thermo-molding process to reform the pipe stock to the furnished configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the inline drain body by use of a **swage mechanical joint**. The raw material used to manufacture the pipe stock that is used to manufacture the inline drain body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates furnished for all surface drainage inlets shall be ductile iron grates for sizes 8", 10", 12", 15", 18", 24" and 30" shall be made specifically for each fitting so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for inline drains shall be capable of supporting H-20 wheel loading for traffic areas or H-10 loading for pedestrian areas. 12" and 15" square grates will be hinged to the frame using pins. Metal used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05 for ductile iron. Grates shall be provided painted black.

INSTALLATION
The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1, class 2, or class 3 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For H-20 load rated installations, a concrete ring will be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.

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DRAWN BY	CJA	MATERIAL	
DATE	03-10-00		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-15-16		
DWG SIZE	A	SCALE 1:1	SHEET 1 OF 1

ADS Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com

TITLE: 8 IN - 30 IN INLINE DRAIN SPECIFICATIONS

DWG NO. 7003-110-009 REV H

FILE NAME:
DATE STAMP:

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

ARCHITECT OF RECORD

PGAL, Inc.
791 Park of Commerce Blvc
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SUZANNE M. DOMBROWSKI, PE
LICENSE NO. 69918
DATE: 10.24.2025

DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents

CONSULTANT

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Suite 850
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PROJECT STATUS
90% CONSTRUCTION DOCUMENTS

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

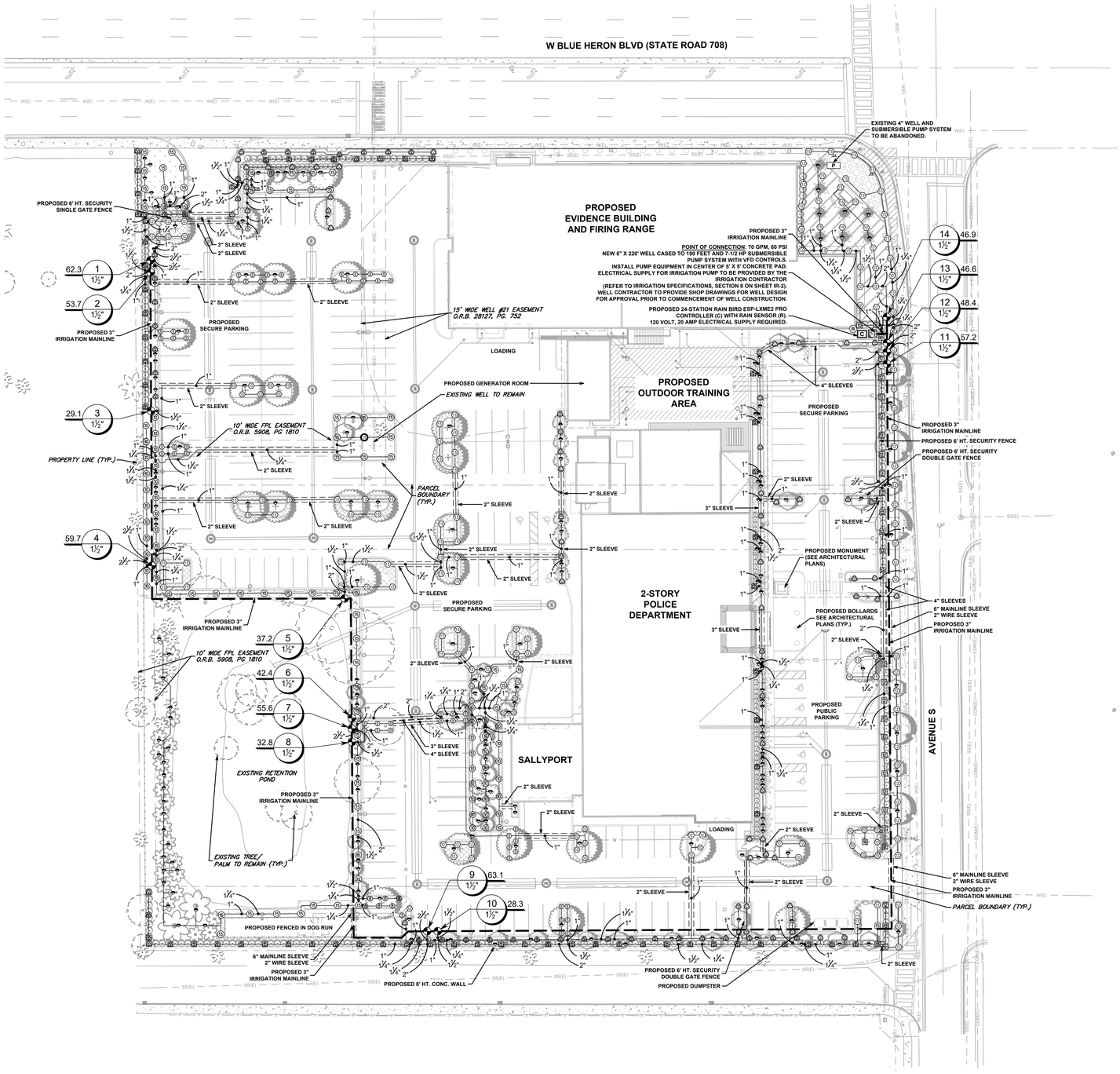
PROJECT LOCATION
1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
ARTIFICIAL TURF DRAINAGE DETAILS

SHEET NUMBER
LD-5

90% CONSTRUCTION DOCUMENTS



GRAPHIC SCALE

0 15 30 60

1 INCH = 30 FEET

Sunshine811

Call 811 or visit sunshine811.com two full business days before digging to have buried facilities located and marked.

Check positive response codes before you dig!

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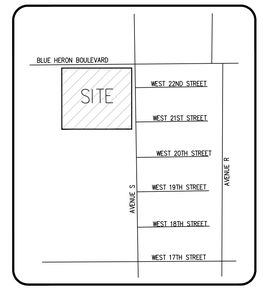

LOCATION MAP
N.T.S.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY	ARC	PSI	GPM	RADIUS
	RAIN BIRD 1806-U-SAM-PRS 15LCS	3	LCS	30	0.49	4'x15'
	RAIN BIRD 1806-U-SAM-PRS 15RCS	3	RCS	30	0.49	4'x15'
	RAIN BIRD 1806-U-SAM-PRS 15SST	34	SST	30	1.21	4'x30'
15	RAIN BIRD 1806-U-SAM-PRS 15F	1	360	30	3.7	15'
8	RAIN BIRD 1806-U-SAM-PRS 08 HE-V	6	ADJ	30	≤ 1.19	8'
10	RAIN BIRD 1806-U-SAM-PRS 10 HE-V	46	ADJ	30	≤ 1.8	10'
15	RAIN BIRD 1806-U-SAM-PRS 15 HE-V	63	ADJ	30	≤ 3.71	15'
	RAIN BIRD 1812-SAM-PRS-U 15LCS	21	LCS	30	0.49	4'x15'
	RAIN BIRD 1812-SAM-PRS-U 15RCS	13	RCS	30	0.49	4'x15'
	RAIN BIRD 1812-SAM-PRS-U 15SST	20	SST	30	1.21	4'x30'
8	RAIN BIRD 1812-SAM-PRS-U 08 HE-V	58	ADJ	30	≤ 1.19	8'
10	RAIN BIRD 1812-SAM-PRS-U 10 HE-V	27	ADJ	30	≤ 1.8	10'
12	RAIN BIRD 1812-SAM-PRS-U 12 HE-V	63	ADJ	30	≤ 2.38	12'
15	RAIN BIRD 1812-SAM-PRS-U 15 HE-V	69	ADJ	30	≤ 3.71	15'
	RAIN BIRD PA-8S-PRS-U 15LCS	5	LCS	30	0.49	4'x15'
	RAIN BIRD PA-8S-PRS-U 15RCS	5	RCS	30	0.49	4'x15'
	RAIN BIRD PA-8S-PRS-U 15SST	57	SST	30	1.21	4'x30'
10	RAIN BIRD PA-8S-PRS-U 10 HE-V	2	ADJ	30	≤ 1.8	10'
12	RAIN BIRD PA-8S-PRS-U 12 HE-V	28	ADJ	30	≤ 2.38	12'
15	RAIN BIRD PA-8S-PRS-U 15 HE-V	2	ADJ	30	≤ 3.71	15'
	RAIN BIRD 1806-SAM-1400 FLOOD 1402	195	360	30	0.5	3'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	RAIN BIRD PEB-PRS-D 1IN., 1-1/2IN., 2IN. PLASTIC INDUSTRIAL REMOTE CONTROL VALVE. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION, WITH PRESSURE REGULATOR MODULE.	14
C	RAIN BIRD ESPLXME2P-LXMMSS-LXMMSSPED W/ (1) ESPLXMSM12 24 STATION, TRADITIONALLY-WIRED , PRO SMART, COMMERCIAL CONTROLLER. (1) ESPLXME2P 12-STATION, PRO SMART, (MODULE INCLUDED) INDOOR/OUTDOOR, PLASTIC WALL-MOUNT ENCLOSURE W/ (1) ESPLXMSM12 - 12-STATION EXPANSION MODULES. INSTALL IN LXMMSS-LXMMSSPED STAINLESS STEEL, WALL-MOUNTED CABINET W/ PEDESTAL.	1
R	RAIN BIRD RSD-BEX RAIN SENSOR, WITH METAL LATCHING BRACKET, EXTENSION WIRE.	1
P	EXISTING IRRIGATION WELL AND PUMP SYSTEM EXISTING 4" WELL AND SUBMERSIBLE PUMP SYSTEM TO BE ABANDONED.	1
POC "1"	POINT OF CONNECTION PROPOSED 5" WELL AND SUBMERSIBLE PUMP SYSTEM WITH VFD CONTROLS	1
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21	8,011 LF
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21	1,272 LF
	PIPE SLEEVE: PVC SCHEDULE 40	890.1 LF

Valve Callout
Valve Number
Valve Flow
Valve Size

AREAS AND QUANTITIES HAVE BEEN PROVIDED FOR CONVENIENCE ONLY. CONTRACTOR TO PROVIDE TOTAL QUANTITIES REQUIRED FOR COMPLETE IRRIGATION SYSTEM AND SITE RESTORATION. CITY OF RIVIERA BEACH MAY MODIFY QUANTITIES AS NECESSARY.

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PSI @ POC	PRECIP
1	RAIN BIRD PEB-PRS-D	1-1/2"	TURF SPRAY	62.3	1,271	37.4	42.1	1.89 in/h
2	RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	53.68	1,263	37.6	41.1	1.73 in/h
3	RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	29.15	1,177	37.7	38.7	1.34 in/h
4	RAIN BIRD PEB-PRS-D	1-1/2"	TURF SPRAY	59.73	1,081	37.4	41.1	1.32 in/h
5	RAIN BIRD PEB-PRS-D	1-1/2"	BUBBLER	37.22	939.9	36.8	38.1	1.54 in/h
6	RAIN BIRD PEB-PRS-D	1-1/2"	TURF SPRAY	42.44	861.6	35.9	37.4	1.83 in/h
7	RAIN BIRD PEB-PRS-D	1-1/2"	TURF SPRAY	55.65	855.1	40.0	42.6	1.05 in/h
8	RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	32.82	846.7	37.3	38.2	1.53 in/h
9	RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	63.08	677.4	40.0	42.6	1.75 in/h
10	RAIN BIRD PEB-PRS-D	1-1/2"	TURF SPRAY	28.32	670.8	37.9	38.5	1.88 in/h
11	RAIN BIRD PEB-PRS-D	1-1/2"	BUBBLER	57.22	36.0	38.5	38.6	1.57 in/h
12	RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	48.35	28.6	39.4	39.4	1.77 in/h
13	RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	46.61	22.8	35.8	35.9	1.27 in/h
14	RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	46.87	27.7	35.8	35.8	1.34 in/h
	Common Wire				1,272			

This item has been digitally signed and sealed by **ERIC D. HARRISON, RLA**, on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

FILE NAME:
DATE STAMP:

90% CONSTRUCTION DOCUMENTS

CLIENT

CITY OF RIVIERA BEACH
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Riviera Beach, FL 33404

ARCHITECT OF RECORD

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CORE CONSTRUCTION
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REGISTRATION

ERIC DOUGLAS HARRISON — No. 6667129 — STATE OF FLORIDA — LANDSCAPE ARCHITECT

DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents

CONSULTANT

chen moore and associates
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PROJECT STATUS

90% CONSTRUCTION DOCUMENTS

DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

1007657.00

SHEET TITLE

IRRIGATION PLAN

SHEET NUMBER

IR-1

9 11

IRRIGATION SPECIFICATIONS

1. GENERAL
   - 1.1. THE SYSTEM HAS BEEN DESIGNED TO CONFORM WITH THE REQUIREMENTS OF ALL APPLICABLE CODES. SHOULD ANY CONFLICT EXIST, THE REQUIREMENTS OF THE CODES SHALL PREVAIL. IT IS THE RESPONSIBILITY OF THE OWNER/INSTALLATION CONTRACTOR TO INSURE THE ENTIRE SYSTEM IS INSTALLED ACCORDING TO ALL APPLICABLE LAWS, RULES, REGULATIONS AND CONVENTIONS. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS ACCORDING TO FEDERAL, STATE AND LOCAL LAWS.
   - 1.2. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES.
   - 1.3. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.
   - 1.4. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND VERIFY PROPER CLEARANCE WITH FPL ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND POWER LINES.
   - 1.5. THE CONTRACTOR MUST SUBMIT FOR APPROVAL, PRIOR TO INSTALLATION, COPIES OF THE MANUFACTURER'S CUT SHEETS/SPECIFICATIONS FOR ALL COMPONENTS TO BE USED IN THE IRRIGATION SYSTEM.
   - 1.6. THE IRRIGATION CONTRACTOR SHALL BE CERTIFIED AS A CERTIFIED IRRIGATION CONTRACTOR BY THE IRRIGATION ASSOCIATION. THE CERTIFICATION SHALL BE CURRENT AND IN GOOD STANDING.
2. SCOPE OF WORK
   - 2.1. THE WORK SPECIFIED IN THIS SECTION CONSISTS OF FURNISHING ALL COMPONENTS NECESSARY FOR THE INSTALLATION, TESTING, AND DELIVERY OF A COMPLETE, FULLY FUNCTIONAL AUTOMATIC LANDSCAPE IRRIGATION SYSTEM THAT COMPLETELY COMPLIES WITH THE 100% IRRIGATION PLANS, SPECIFICATIONS, NOTES, DETAILS AND ALL APPLICABLE LAWS, REGULATIONS, CODES AND ORDINANCES. THIS WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, THE PROVIDING OF ALL REQUIRED MATERIAL (PIPE, VALVES, FITTINGS, CONTROLLERS, WIRE, PRIMER, GLUE, ETC.), LAYOUT, PROTECTION OF THE PUBLIC, EXCAVATION, ASSEMBLY, INSTALLATION, BACK FILLING, COMPACTING, REPAIR OF ROAD SURFACES, CONTROLLER AND LOW VOLTAGE FEEDS TO VALVES, CLEANUP, MAINTENANCE, GUARANTEE AND AS-BUILT PLANS.
   - 2.2. ALL IRRIGATED AREAS SHALL PROVIDE 100% HEAD-TO-HEAD COVERAGE FROM A FULLY AUTOMATIC IRRIGATION SYSTEM WITH A RAIN SENSOR AS SHOWN. THE RAIN SENSOR SHALL BE INSTALLED TO PREVENT ITS ACTIVATION BY ADJACENT HEADS. ALL WATERING PROCEDURES SHALL CONFORM TO LOCAL CODES, AS WELL AS THIS PROJECT'S REGIONAL WATER MANAGEMENT DISTRICT RESTRICTIONS AND REGULATIONS. ZONES ARE PRIORITIZED FIRST BY PUBLIC SAFETY AND THEN BY HYDRAULIC CONCERNS, THIS SEQUENCING WILL BE A MANDATORY PUNCH LIST ITEM. THESE PLANS HAVE BEEN DESIGNED TO SATISFY/EXCEED THE FLORIDA BUILDING CODE (FBC) APPENDIX F AND THE FLORIDA IRRIGATION SOCIETY STANDARDS AND SPECIFICATIONS FOR TURF AND LANDSCAPE IRRIGATION SYSTEMS, FOURTH EDITION.
   - 2.3. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES 72 HOURS PRIOR TO COMMENCEMENT OF WORK.
   - 2.4. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, STRUCTURES AND UTILITIES. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTION, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE DESIGN. SUCH OBSTRUCTIONS, OR DIFFERENCES, SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER' AUTHORIZED REPRESENTATIVE. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
   - 2.5. IRRIGATION CONTRACTOR SHALL REPAIR OR REPLACE ALL EXISTING SITE ITEMS DAMAGED BY THEIR WORK. IRRIGATION CONTRACTOR SHALL COORDINATE THEIR WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES AND LATERALS THROUGH WALLS, UNDER ROADWAYS AND PAVING, ETC.
   - 2.6. THE CONTRACTOR SHALL TAKE IMMEDIATE STEPS TO REPAIR, REPLACE, OR RESTORE ALL SERVICES TO ANY UTILITIES WHICH ARE DISRUPTED DUE TO THEIR OPERATIONS. ALL COSTS INVOLVED IN DISRUPTION OF SERVICE AND REPAIRS DUE TO NEGLIGENCE ON THE PART OF THE CONTRACTOR SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
3. SUBMITTALS
   - 3.1. THE CONTRACTOR SHALL PROVIDE FOR APPROVAL PRIOR TO INSTALLATION, MANUFACTURER'S PRODUCT DESCRIPTION SHEETS/SPECIFICATIONS FOR ALL MAJOR COMPONENTS OF THE IRRIGATION SYSTEM. MODEL NUMBERS SHALL BE HIGHLIGHTED OR CIRCLED.
   - 3.2. NO SUBSTITUTIONS OR DEVIATIONS FROM THE SPECIFIED BRANDS, MODELS, OR SIZES SHALL BE PERMITTED, EXCEPT WITH WRITTEN APPROVAL FROM THE LANDSCAPE ARCHITECT OF RECORD.
   - 3.3. ANY MAJOR DESIGN CHANGES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT OF RECORD PRIOR TO CONSTRUCTION; CONTRACTOR PROCEEDS WITH CHANGES AT OWN RISK. DESIGN CHANGES, SUBSTITUTIONS, OR DEVIATIONS NOT APPROVED BY THE LANDSCAPE ARCHITECT OF RECORD WILL RESULT IN REJECTION AND REPLACEMENT OF MATERIALS AT NO ADDITIONAL COST TO THE OWNER.
4. POST CONSTRUCTION DOCUMENTATION
   - 4.1. DOCUMENTATION:
     - 4.1.1. PROVIDE THE MANUFACTURERS' RECOMMENDED OPERATING INSTRUCTIONS FOR ALL MAJOR COMPONENTS INCORPORATED INTO THE IRRIGATION SYSTEM.
     - 4.1.2. PROVIDE SYSTEM OPERATION MANUALS, MAINTENANCE SCHEDULES, RECOMMENDED SCHEDULE OF OPERATION INCLUDED AVERAGE APPLICATION RATES WITH SEASONAL ADJUSTMENTS FOR EACH ZONE.
     - 4.1.3. PROVIDE ALL REQUIRED TESTING AND INSPECTION CERTIFICATES TO THE OWNER OR OWNER'S REPRESENTATIVE
   - 4.2. AS-BUILT DRAWINGS: PROVIDE RECORD DRAWINGS AND PLANS SHOWING ALL CHANGES IN THE DESIGN TO INDICATE THE ACTUAL INSTALLATION AND LOCATION OF ALL EQUIPMENT AND MATERIALS. THE FOLLOWING SPECIFIC ITEMS MUST BE INCLUDED:
     - 4.2.1. LOCATION AND SIZE OF MAINLINE PIPING, LATERAL PIPING, AND PIPE SLEEVING.
     - 4.2.2. ISOLATION VALVES
     - 4.2.3. REMOTE CONTROL VALVE LOCATIONS, SIZES, NUMBER, AND AREA OF COVERAGE SHOWN USING DIFFERENT COLORS.
     - 4.2.4. SPLICE BOXES AND LOW VOLTAGE WIRING PATH.
     - 4.2.5. CONTROLLER AND RAIN SHUTOFF DEVICES.
     - 4.2.6. POINT OF CONNECTION INCLUDING THE TYPE OF WATER SOURCE, SIZE, FLOW RATE, AND OPERATING PRESSURE.
     - 4.2.7. DATE AND SCALE.
     - 4.2.8. CONTRACTOR'S NAME, ADDRESS, AND TELEPHONE NUMBER.
     - 4.2.9. THE AS-BUILT DRAWINGS SHALL BE SIGNED BY A FLORIDA REGISTERED LANDSCAPE ARCHITECT OR PROFESSIONAL ENGINEER.
   - 4.3. CONTRACTOR SHALL FURNISH FIVE EXTRA UNITS OF EACH TYPE OF POPUP SPRAY AND EMITTER THAT MATCH PRODUCTS INSTALLED AND THAT ARE PACKAGED WITH PROTECTIVE COVERING FOR STORAGE AND IDENTIFIED WITH LABELS DESCRIBING CONTENTS. INCLUDE TOOLS TO SERVICE THESE PRODUCTS.
5. FINAL ACCEPTANCE
   - 5.1. FINAL ACCEPTANCE OF THE IRRIGATION SYSTEM WILL BE GIVEN AFTER THE FOLLOWING DOCUMENTS AND CONDITIONS HAVE BEEN COMPLETED AND APPROVED. FINAL PAYMENT WILL NOT BE RELEASED UNTIL THESE CONDITIONS ARE SATISFIED.
     - 5.1.1. FINAL WALK-THRU AND CORRECTION OF ALL PUNCH LIST ITEMS.
     - 5.1.2. COMPLETION AND ACCEPTANCE OF AS-BUILT RECORD DRAWINGS.
     - 5.1.3. TURNOVER OF ALL REQUIRED PARTS AND TOOLS AS OUTLINED IN THE PROJECT SPECIFICATIONS.
6. GUARANTEE
   - 6.1. FULLY WARRANT THE LANDSCAPE IRRIGATION SYSTEM FOR A PERIOD OF ONE (1) YEAR AFTER THE WRITTEN FINAL ACCEPTANCE.
   - 6.2. DURING THE WARRANTY PERIOD, ENFORCE MANUFACTURER'S AND SUPPLIER'S WARRANTIES. MALFUNCTIONS, DEFICIENCIES, BREAKS, DAMAGES, DISREPAIR OR OTHER DISORDERS DUE TO MATERIALS, WORKMANSHIP, OR INSTALLATION BY THE CONTRACTOR AND HIS SUPPLIERS SHALL BE IMMEDIATELY AND PROPERLY CORRECTED.
   - 6.3. REPAIR DAMAGES PROMPTLY WHICH ARE CAUSED BY SYSTEM MALFUNCTION.
7. POINT OF CONNECTION (P.O.C.)
   - 7.1. THE POC IS A PROPOSED 5" X 220' WELL CASED TO 190 FEET AND 7-1/2 HP SUBMERSIBLE PUMP WITH VFD CONTROLS. THE POC SHALL BE CAPABLE OF SUPPLYING A MINIMUM OF 70 GPM AT 60 PSI. CONTRACTOR SHALL VERIFY THESE MINIMUM CONDITIONS CAN BE MET PRIOR TO BEGINNING IRRIGATION SYSTEM INSTALLATION.
   - 7.2. IF THE CONDITIONS CAN NOT BE MET, THE CONTRACTOR MUST NOTIFY THE DESIGNER PRIOR TO PROCEEDING WITH THE WORK. IF THE CONTRACTOR DOES NOT DO SO, THE CONTRACTOR PROCEEDS AT THEIR OWN RISK AND BECOMES RESPONSIBLE FOR ANY FUTURE WORK REQUIRED TO MAKE THE SYSTEM PERFORM AS REQUIRED.
8. PIPING
   - 8.1. MAINLINE PIPE: PVC CLASS 200 SDR 21, NON-GASKETED, SOLVENT WELD, WITH SCHEDULE 40 PVC FITTINGS.
   - 8.2. LATERAL PIPE: PVC CLASS 200 SDR 21, NON-GASKETED, SOLVENT WELD, WITH SCHEDULE 40 PVC FITTINGS.
   - 8.3. THREADED PIPE: PVC SCHEDULE 80.
   - 8.4. PIPE LOCATIONS SHOWN ON THE PLAN ARE SCHEMATIC AND SHALL BE ADJUSTED IN THE FIELD. WHEN LAYING OUT MAINLINES PLACE A MAXIMUM OF 12" AWAY FROM EITHER THE BACK OF CURB, FRONT OF WALK, BACK OF WALK, OR OTHER HARDSCAPE TO ALLOW FOR EASE IN LOCATING AND PROTECTION FROM PHYSICAL DAMAGE. INSTALL ALL LATERAL PIPE NEAR EDGES OF PAVEMENT OR AGAINST BUILDINGS WHENEVER POSSIBLE TO ALLOW SPACE FOR PLANT ROOT BALLS. ALWAYS INSTALL PIPING INSIDE PROJECT PROPERTY BOUNDARY.
   - 8.5. PIPES SHALL ALWAYS BE PLACED IN PLANTING BEDS. IF IT IS NECESSARY TO HAVE PIPING UNDER HARDSCAPES, SUCH AS ROADS, WALKS, AND PATIOS, THE PIPES MUST BE SLEEVED USING SCH 40 PVC WITH THE SLEEVE DIAMETER BEING TWICE THE SIZE OF THE PIPE IT IS CARRYING WITH A MINIMUM SLEEVE SIZE OF 2".
   - 8.6. PIPE SIZES SHALL CONFORM TO THOSE SHOWN ON THE DRAWINGS. NO SUBSTITUTIONS OF SMALLER PIPE SIZES SHALL BE PERMITTED, BUT SUBSTITUTIONS OF LARGER SIZES MAY BE APPROVED. ALL DAMAGED AND REJECTED PIPE SHALL BE REMOVED FROM THE SITE AT THE TIME OF SAID REJECTION.
   - 8.7. CONTRACTOR TO ENSURE ALL MAINLINE PIPING IS PROPERLY RESTRAINED USING MECHANICAL JOINT FITTINGS, RESTRAINING COLLARS, THREADED RODS, THRUST BLOCKS, ETC., AS AND WHERE REQUIRED. CONTRACTOR SHALL REFER TO PIPE MANUFACTURER'S RECOMMENDED INSTALLATION PRACTICES FOR FURTHER DIRECTION.
   - 8.8. PVC PIPE JOINT COMPOUND AND PRIMER: SLOW-DRYING, HEAVY DUTY CEMENT AND TINTED (PURPLE) PRIMER THAT IS COMPATIBLE WITH THE CEMENT. THE PVC CEMENT SHALL BE WELD-ON 2711 GREY AND THE PRIMER SHALL BE WELD-ON P70 PURPLE PRIMER, OR APPROVED EQUALS.
   - 8.9. MAIN LINE PIPE DEPTH MEASURED TO THE TOP OF PIPE SHALL BE 18" MINIMUM, 36" MINIMUM AT VEHICULAR CROSSINGS.
   - 8.10. LATERAL LINE DEPTHS MEASURED TO TOP OF PIPE SHALL BE 12" MINIMUM, 30" MINIMUM AT VEHICULAR CROSSINGS.
9. LAYOUT
   - 9.1. LAY OUT IRRIGATION SYSTEM MAINLINES AND LATERAL LINES. MAKE THE NECESSARY ADJUSTMENTS AS REQUIRED TO TAKE INTO ACCOUNT ALL SITE OBSTRUCTIONS AND LIMITATIONS PRIOR TO EXCAVATING TRENCHES.
   - 9.2. STAKE ALL SPRINKLER HEAD LOCATIONS. ADJUST LOCATION AND MAKE THE NECESSARY MODIFICATIONS TO NOZZLE TYPES, ETC. REQUIRED TO INSURE 100% HEAD TO HEAD COVERAGE. REFER TO THE EDGE OF PAVEMENT DETAIL ON THE IRRIGATION DETAIL SHEET.
   - 9.3. SPRAY HEADS SHALL BE INSTALLED 4" FROM SIDEWALKS OR CURBED ROADWAYS AND 12" FROM UNCURBED ROADWAYS AND BUILDING FOUNDATIONS. ROTORS SHALL BE INSTALLED 4" FROM SIDEWALKS OR CURBED ROADWAYS, 12" FROM BUILDING FOUNDATIONS, AND 36" FROM UNCURBED ROADWAYS.
   - 9.4. SHRUB HEADS SHALL BE INSTALLED ON 3/4" SCH 40 PVC RISERS. THE RISERS SHALL BE SET AT A MINIMUM OF 18" OFF SIDEWALKS, ROADWAY CURBING, BUILDING FOUNDATIONS, AND/OR ANY OTHER HARDSCAPED AREAS. SHRUB HEADS SHALL BE INSTALLED TO A STANDARD HEIGHT OF 4" BELOW MAINTAINED HEIGHT OF PLANTS AND SHALL BE INSTALLED WITHIN PLANTED MASSES TO BE LESS VISIBLE AND OFFER PROTECTION. PAINT ALL SHRUB RISERS WITH FLAT BLACK OR FOREST GREEN PAINT, UNLESS IRRIGATION SYSTEM WILL BE INSTALLED FROM A REUSE WATER SYSTEM WITH PURPLE PVC RISERS.
   - 9.5. LOCATE VALVES PRIOR TO EXCAVATION. INSURE THAT THEIR LOCATION PROVIDES FOR EASY ACCESS AND THAT THERE IS NO INTERFERENCE WITH PHYSICAL STRUCTURES, PLANTS, TREES, POLES, ETC. VALVE BOXES MUST BE PLACED A MINIMUM OF 12" AND A MAXIMUM OF 15" FROM THE EDGE OF PAVEMENT, CURBS, ETC., AND THE TOP OF THE BOX MUST BE 2" ABOVE FINISH GRADE. NO VALVE BOXES SHALL BE INSTALLED IN TURF AREAS WITHOUT APPROVAL BY THE IRRIGATION DESIGNER; ONLY IN SHRUB BEDS. NEVER INSTALL VALVE BOXES WITHIN A SPORTS FIELD OR DESIGNATED PLAY AREA.
8. ELECTRICAL POWER SUPPLY
   - 8.1. ELECTRICAL SUPPLY FOR PUMP AND CONTROLLER SHALL TO BE PROVIDED BY THE IRRIGATION CONTRACTOR. CONTRACTOR TO COORDINATE WITH LOCAL UTILITIES FOR THE INSTALLATION OF AND CONNECTION TO AVAILABLE SITE POWER SUPPLY FOR REQUIRED ELECTRICAL COMPONENTS AS SET FORTH IN THE 100% IRRIGATION PLANS.
   - 8.2. ALL ELECTRICAL INSTALLATION TO COMPLY WITH THE NATIONAL ELECTRICAL CODE AND ANY AND ALL OTHER APPLICABLE ELECTRICAL CODES, LAWS AND REGULATIONS. A LICENSED ELECTRICIAN SHALL PERFORM ALL ELECTRICAL HOOK-UPS. POWER FOR THE PUMP SHALL BE 230 VOLT, THREE PHASE; CONTROLLER SHALL BE 120 VOLT, 20 AMP.
9. CONTROL WIRING
   - 9.1. IRRIGATION CONTROL WIRE SHALL BE THERMOPLASTIC SOLID COPPER, SINGLE CONDUCTOR, LOW VOLTAGE IRRIGATION CONTROLLER WIRE SUITABLE FOR DIRECT BURIAL AND CONTINUOUS OPERATION AT RATED VOLTAGES.
   - 9.2. ALL CONTROL WIRING SHALL BE PLACED IN PVC SCHEDULE 40 GRAY ELECTRICAL CONDUIT. AT TURNS IN DIRECTION UTILIZE JUNCTION BOXES. WHERE NECESSARY, EXPOSED CONTROL WIRE CONDUIT SHALL BE HUNG AND SECURED UTILIZING PIPE HANGERS AND SUPPORTS.
   - 9.3. TAPE AND BUNDLE CONTROL WIRES EVERY 10' AND RUN ADJACENT TO THE MAINLINE. AT ALL TURNS IN DIRECTION MAKE A 2' COIL OF WIRE. AT ALL VALVE BOXES COIL WIRE AROUND A 3/4" PIECE OF PVC PIPE TO MAKE A COIL USING 30 LINEAR INCHES OF WIRE. MAKE ELECTRICAL CONNECTIONS WITH 3M-DBY,DBR CONNECTORS.
   - 9.4. NUMBER ALL WIRES USING AN ELECTRICAL BOOK OF NUMBERS ACCORDING TO THE PLANS. NUMBER WIRES IN ALL VALVE BOXES, JUNCTION BOXES AND AT THE CONTROLLER.
   - 9.5. WIRE SIZED, NUMBERED AND COLORED AS FOLLOWS:
     - #14 WHITE FOR COMMON
     - #14 SPARE BLACK COMMON
     - #14 RED FOR HOT WIRES
     - #14 SPARE YELLOW HOT WIRE
10. CONTROLLER GROUNDING
    - 10.1. CONTRACTOR TO UTILIZE 4"X8'X5/8" COPPER GROUNDING PLATES, 5/8"X10' COPPER CLAD GROUNDING RODS, 'ONE STRIKE' CAD WELLS AT ALL CONNECTION POINTS, #6 BARE COPPER WIRE, AND EARTH CONTACT MATERIAL. INSTALL THESE AND OTHER REQUIRED COMPONENTS AS OUTLINED IN THE DETAIL. CONTRACTOR TO VERIFY THAT THE EARTH TO GROUND RESISTANCE DOES NOT EXCEED 10 OHMS. CONTRACTOR SHALL PROVIDE A WRITTEN CERTIFICATION ON A LICENSED ELECTRICAL CONTRACTORS LETTER HEAD SHOWING THE DATE OF THE TEST, CONTROLLER LOCATION, AND TEST RESULTS. EACH CONTROLLER SHALL BE SO GROUNDED AND TESTED.
11. VALVES
    - 11.1. SEQUENCE ALL VALVES SO THAT THE FARTHEST VALVE FROM THE P.O.C. OPERATES FIRST AND THE CLOSEST TO THE P.O.C. OPERATES LAST. THE CLOSEST VALVE TO THE P.O.C. SHOULD BE THE LAST VALVE IN THE PROGRAMMED SEQUENCE.
    - 11.2. ADJUST THE FLOW CONTROL ON EACH RCV TO ENSURE SHUT OFF IN 10 SECONDS AFTER DEACTIVATION BY THE IRRIGATION CONTROLLER.
    - 11.3. USING 3" HIGH NUMBER STENCILS, PAINT THE VALVE NUMBER IN WHITE ON THE LID OF EACH VALVE BOX.
12. EQUIPMENT
    - 12.1. BUBBLERS SHALL BE INSTALLED USING SCH 80 NIPPLES AND SHALL BE PLACED AT THE BASE OF TREES FOR LOW LEVEL WATERING.
    - 12.2. ALL POP-UP HEADS AND SHRUB RISERS SHALL BE PRESSURE COMPENSATING. ALL POP-UP HEADS SHALL BE MOUNTED ON FLEX-TYPE SWING JOINTS.
    - 12.3. ALL SPRINKLER EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS, AND IN ACCORDANCE WITH LOCAL AND STATE LAWS.
13. TRENCHING
    - 13.1. EXCAVATE STRAIGHT AND VERTICAL TRENCHES WITH SMOOTH, FLAT OR SLOPING BOTTOMS. TRENCH WIDTH AND DEPTH SHOULD BE SUFFICIENT TO ALLOW FOR THE PROPER VERTICAL AND HORIZONTAL SEPARATION BETWEEN PIPING AS SHOWN IN THE PIPE INSTALLATION DETAIL ON THE DETAIL SHEET.
    - 13.2. PROTECT EXISTING LANDSCAPED AREAS. REMOVE AND REPLANT ANY DAMAGED PLANT MATERIAL UPON JOB COMPLETION. THE REPLACEMENT MATERIAL SHALL BE THE SAME GENUS, SPECIES, AND SIZE OF THE MATERIAL IT IS REPLACING. THE FINAL DETERMINATION AS TO WHAT NEEDS TO BE REPLACED AND THE ACCEPTABILITY OF THE REPLACEMENT MATERIAL SHALL BE SOLELY DETERMINED BY THE OWNER OR OWNER'S REPRESENTATIVE.
14. INSTALLATION
    - 14.1. CUT ALL PIPE SQUARE AND DEBURR. CLEAN PIPE AND FITTINGS OF FOREIGN MATERIAL, THEN APPLY A SMALL AMOUNT OF PRIMER WHILE ENSURING THAT ANY EXCESS IS WIPED OFF IMMEDIATELY. PRIMER SHOULD NOT PUDDLE OR DRIP FROM PIPE OR FITTINGS. NEXT APPLY A THIN COAT OF PVC CEMENT. FIRST APPLY A THIN LAYER TO THE PIPE, THEN A THIN LAYER INSIDE THE FITTING, AND FINALLY ANOTHER VERY THIN LAYER ON THE PIPE. INSERT THE PIPE INTO THE FITTING. INSURE THAT THE PIPE IS INSERTED TO THE BOTTOM OF THE FITTING, THEN TURN THE PIPE A 1/4 TURN AND HOLD FOR 10 SECONDS. MAKE SURE THAT THE PIPE DOESNT RECEDE FROM THE FITTING. IF THE PIPE ISNT AT THE BOTTOM OF THE FITTING UPON COMPLETION, THE GLUE JOINT IS UNACCEPTABLE AND MUST BE DISCARDED.
    - 14.2. PIPES MUST CURE A MINIMUM OF 30 MINUTES PRIOR TO HANDLING AND PLACING INTO TRENCHES. A LONGER CURING TIME MAY BE REQUIRED; REFER TO THE MANUFACTURER'S SPECIFICATIONS. THE PIPE MUST CURE A MINIMUM OF 24 HOURS PRIOR TO FILLING WITH WATER.
15. BACKFILLING
    - 15.1. THE BACKFILL 6" BELOW AND 6" ABOVE ALL PIPING SHALL BE CLEAN SAND. ALL OTHER TRCNCH BACKFILL CAN BE NATIVE MATERIAL BUT SHALL NOT CONTAIN ANYTHING LARGER THAN 2" IN DIAMETER.
    - 15.2. CONTRACTOR SHALL BACKFILL ALL PIPING, BOTH MAINLINE AND LATERALS, PRIOR TO PERFORMING ANY PRESSURE TESTS. THE PIPE SHALL BE BACKFILLED WITH THE EXCEPTION OF 2' ON EACH SIDE OF EVERY JOINT (BELL FITTINGS, 90'S, TEES, 45'S, ETC.). THESE JOINTS SHALL NOT BE BACKFILLED UNTIL ALL PIPING HAS SATISFACTORILY PASSED ITS APPROPRIATE PRESSURE TEST AS OUTLINED BELOW.
16. TESTING & FLUSHING
    - 16.1. LEAKAGE TESTING
      - 16.1.1. REMOVE ALL REMOTE CONTROL VALVES AND CAP USING A THREADED CAP. FILL MAINLINE WITH WATER AND PRESSURIZE THE SYSTEM TO 125 PSI. MONITOR THE SYSTEM PRESSURE AT TWO GAUGE LOCATIONS; THE GAUGE LOCATIONS MUST BE AT OPPOSITE ENDS OF THE MAINLINE, WITH THE SAME RESPECTIVE PRESSURES, MONITOR THE GAUGES FOR TWO HOURS.
      - 16.1.2. PVC SOLVENT-WELD PIPE CONNECTIONS SHALL HAVE NO LEAKAGE. GASKETED PIPING SHALL LOSE NO MORE WATER THAN ALLOWED PER THE FLORIDA STATE BUILDING CODE, VOLUME II PLUMBING, PART VI, APPENDIX 'F'. REFER TO THIS SECTION FOR THE FORMULA TO BE USED TO CALCULATE THE MAXIMUM ALLOWABLE WATER LOSS DURING THE TESTING TIME.
      - 16.1.3. REPAIR ALL LEAKS AND RETEST MAINLINE PIPING UNTIL THE TEST IS SUCCESSFUL.
      - 16.1.4. LATERAL PIPE MUST BE FILLED AND VISUALLY CHECKED FOR LEAKS. ANY LEAKS DETECTED MUST BE REPAIRED. NO PRESSURE TEST OF THE LATERAL LINES IS REQUIRED.
    - 16.2. FLUSHING:
      - 16.2.1. PRIOR TO THE PLACEMENT OF HEADS, FLUSH ALL LINES FOR A MINIMUM OF 10 MINUTES OR UNTIL LINES ARE COMPLETELY CLEAN OF DEBRIS, WHICHEVER IS LONGER.
      - 16.2.2. USE SCREENS IN HEADS AND ADJUST HEADS FOR PROPER COVERAGE AVOIDING EXCESS WATER ON WALLS, WALKS AND PAVING.
    - 16.3. OPERATIONAL TESTING:
      - 16.3.1. UPON COMPLETION OF BACKFILLING, FINISH GRADING AND CONTOURING, TEST THE ENTIRE SYSTEM FOR PROPER OPERATION, INCLUDING ELECTRICALLY ACTUATING THE REMOTE CONTROL VALVES. RUN EACH ZONE UNTIL WATER BEGINS TO PUDDLE OR RUN OFF. THIS WILL ALLOW DETERMINATION OF THE NUMBER OF IRRIGATION START TIMES NECESSARY TO MEET THE WEEKLY EVAPOTRANSPIRATION REQUIREMENTS OF THE PLANTING MATERIAL IN EACH ZONE. IN SANDY SOILS NO PUDDLING WILL OCCUR. IN THESE CASES, CALCULATE THE REQUIRED RUN TIMES.
      - 16.3.2. ONCE THE MAINLINE AND LATERAL LINES HAVE PASSED THEIR RESPECTIVE TESTS AND THE SYSTEM IS COMPLETELY OPERATIONAL, A COVERAGE TEST AND DEMONSTRATION OF THE SYSTEM IS REQUIRED. THE IRRIGATION CONTRACTOR MUST DEMONSTRATE TO THE OWNER OR HIS/HER REPRESENTATIVE THAT PROPER COVERAGE IS OBTAINED AND THAT THE SYSTEM WORKS AUTOMATICALLY FROM THE CONTROLLER. THIS DEMONSTRATION REQUIRES THAT EACH ZONE BE TURNED ON IN THE PROPER SEQUENCE AS SHOWN ON THE PLANS FROM THE CONTROLLER. EACH ZONE WILL BE INSPECTED FOR PROPER COVERAGE AND FUNCTION. THE DETERMINATION OF PROPER COVERAGE AND FUNCTION WILL BE SOLELY DETERMINED BY THE OWNER OR OWNER'S REPRESENTATIVE.

IRRIGATION WELL ABANDONMENT NOTES

1. WELL ABANDONMENT SHALL BE PERFORMED BY A LICENSED WATER WELL CONTRACTOR AND FOLLOW ALL FDEP REQUIREMENTS, INCLUDING PERMITTING AND ALL ASSOCIATED FEES (FORM NUMBER 62-532.900(1)).
2. PLUG THE EXISTING INTAKE OPENING IN THE WELL STRUCTURE.
3. THE IRRIGATION WELL SHALL BE PUMPED OUT, OR ALTERNATIVELY, IF IT IS EMPTY AND DRY AT THE COMMENCEMENT OF ABANDONMENT, PROCEED WITH THE NEXT STEP.
4. THE BOTTOM OF THE IRRIGATION WELL SHALL BE OPENED OR RUPTURED, OR THE ENTIRE STRUCTURE COLLAPSED SO AS TO PREVENT THE STRUCTURE FROM RETAINING WATER.
5. THE IRRIGATION WELL SHALL BE FILLED WITH CONCRETE, OR OTHER SUITABLE MATERIAL APPROVED BY FDEP, FROM THE BOTTOM OF THE BOREHOLE TO THE TOP OF THE WELL CASING.

***Adapted from Florida Department of State - Florida Administrative Code & Florida Administrative Register Rule Chapter: 62-532 (https://www.flrules.org/gateway/RuleNo.asp?title=WATER%20WELL%20PERMITTING%20AND%20 CONSTRUCTION%20REQUIREMENTS&ID=62-532.400)**

40D-3.531 Abandoned Well Plugging.

(1) The form entitled "State of Florida Permit Application to Construct, Repair, Modify or Abandon a Well," adopted by reference in Rule 40D-3.101, F.A.C., shall be submitted to the District and a Well Construction Permit shall be issued prior to the abandonment of any well, including an incomplete well.

(2) All abandoned wells as defined by Section 373.303(1), F.S., and subsection 40D-3.021(1), F.A.C., abandoned artesian wells as defined by Section 373.203(1), F.S., and incomplete wells as defined by subsection 40D-3.021(17), F.A.C., shall be plugged in accordance with subsection (3) of this rule and Rule 40D-3.517, F.A.C., unless they can be repaired in accordance with this chapter.

(3) All abandoned and incomplete wells shall be plugged by filling them from bottom to top with grout. The work shall be performed by a licensed water well contractor except for wells exempted under subsection 40D-3.051(1), F.A.C., and wells permitted to be constructed or abandoned pursuant to paragraph 40D-3.301(1)(a), F.A.C.

(a) Use of clean aggregate to bridge cavernous or lost circulation zones shall be allowed if measurements indicate loss of grout and the borehole or screened portion does not connect two (2) or more aquifers of differing water quality. Prior approval to use aggregate or other material must be obtained from the District.

(b) Obstructions shall be cleared from all wells prior to plugging.

(4) The contractor must notify the District at least 24 hours in advance of a well abandonment. A District representative must be on site to observe the abandonment procedure unless the following criteria are met and the District authorizes the contractor to proceed without a District representative on site:

(a) The contractor is currently in compliance with all other District rules;

(b) The contractor has not violated any conditions of his license or any District rule within the past two years;

(c) The District has observed the abandonment of at least ten prior wells by the requesting contractor; and

(d) A District representative cannot be at the well site at the time of abandonment.

(5) The "Well Grouting/Abandonment Form," Form No. LEG-R.041.01 (9/14) available at https://www.flrules.org/Gateway/reference.asp?No=Ref-05529 incorporated herein by reference, will be used to document the well abandonment. Copies of this form can be obtained at the District's website at www.watermatters.org or from District offices.

Rulemaking Authority 373.044, 373.113, 373.171, 373.309, 373.337 FS. Law Implemented 373.206, 373.207, 373.209, 373.306, 373.308, 373.309 FS. History-New 7-1-90, Amended 9-30-91, 12-31-92, 7-2-98, 9-26-02, 2-26-07, 8-19-08, 8-30-09, 7-12-15.

This item has been digitally signed and sealed by **ERIC D. HARRISON, RLA**, on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

90% CONSTRUCTION DOCUMENTS

FILE NAME:
DATE STAMP:

CLIENT

CITY OF RIVIERA BEACH
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1678 Kingston Road
Longwood, FL
32750

REGISTRATION

ERIC D. HARRISON — No. 6667129 — STATE OF FLORIDA — LANDSCAPE ARCHITECT

DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/15/2025	90% Construction Documents

CONSULTANT

chen moore and associates
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West Palm Beach, FL 33401
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PROJECT STATUS
90% CONSTRUCTION DOCUMENTS

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

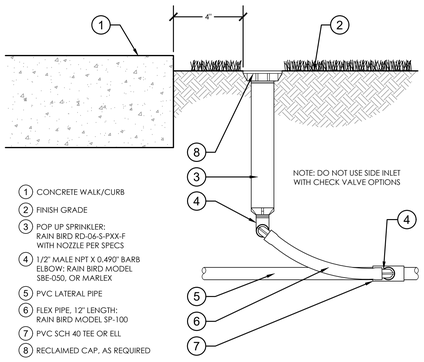
PROJECT LOCATION
1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
IRRIGATION SPECIFICATIONS

SHEET NUMBER
IR-2

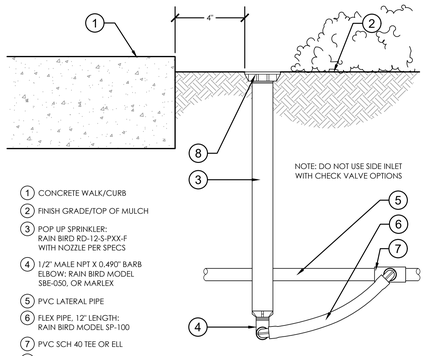
IRRIGATION DETAILS



1. CONCRETE WALK/CURB
2. FINISH GRADE
3. POP UP SPRINKLER: RAIN BIRD RD-06-S-PXX-F WITH NOZZLE PER SPECS
4. 1/2" MALE NPT X 0.490" BARB ELBOW: RAIN BIRD MODEL SBE-050, OR MARLEX
5. PVC LATERAL PIPE
6. FLEX PIPE, 12" LENGTH: RAIN BIRD MODEL SP-100
7. PVC SCH 40 TEE OR ELL
8. RECLAIMED CAP, AS REQUIRED

1 6" POP-UP SPRAY

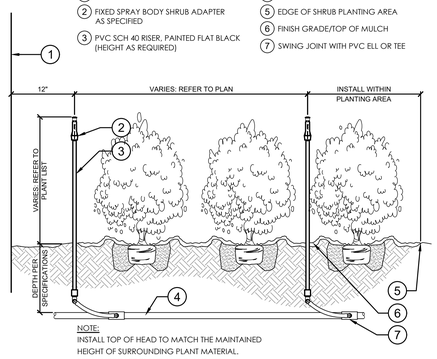
3" = 1'-0" 328403.13-03



1. CONCRETE WALK/CURB
2. FINISH GRADE/TOP OF MULCH
3. POP UP SPRINKLER: RAIN BIRD RD-12-S-PXX-F WITH NOZZLE PER SPECS
4. 1/2" MALE NPT X 0.490" BARB ELBOW: RAIN BIRD MODEL SBE-050, OR MARLEX
5. PVC LATERAL PIPE
6. FLEX PIPE, 12" LENGTH: RAIN BIRD MODEL SP-100
7. PVC SCH 40 TEE OR ELL
8. RECLAIMED CAP, AS REQUIRED

2 12" POP-UP SPRAY

3" = 1'-0" 328403.29-03

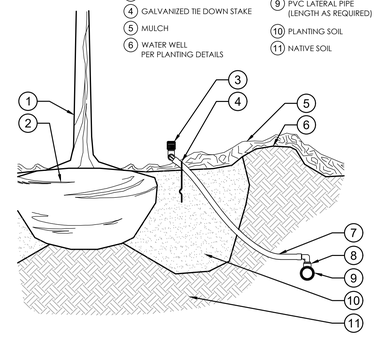


1. WALL OR STRUCTURE
2. FIXED SPRAY BODY SHRUB ADAPTER AS SPECIFIED
3. PVC SCH 40 RISER, PAINTED FLAT BLACK (HEIGHT AS REQUIRED)
4. PVC LATERAL PIPE
5. EDGE OF SHRUB PLANTING AREA
6. FINISH GRADE/TOP OF MULCH
7. SWING JOINT WITH PVC ELL OR TEE

NOTE:
INSTALL TOP OF HEAD TO MATCH THE MAINTAINED HEIGHT OF SURROUNDING PLANT MATERIAL, SEE LANDSCAPE PLANS AND PLANT LIST.

3 FIXED SPRAY ON RISER

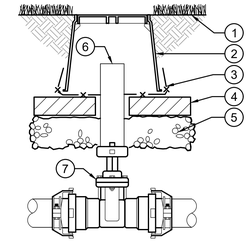
1" = 1'-0" 328403.26-16



1. TREE OR PALM
2. ROOT BALL
3. BUBBLER AS SPECIFIED
4. GALVANIZED TIE DOWN STAKE
5. MULCH
6. WATER WELL PER PLANTING DETAILS
7. FLEX PIPE
8. PVC TEE OR ELL WITH MARLEX FITTING
9. PVC LATERAL PIPE (LENGTH AS REQUIRED)
10. PLANTING SOIL
11. NATIVE SOIL

4 TREE BUBBLER

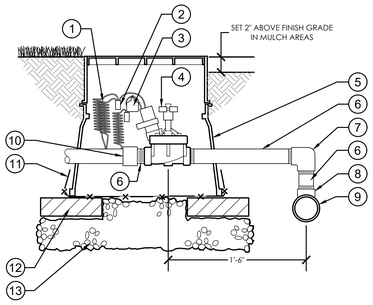
1 1/2" = 1'-0" 328403.53-06



1. FINISH GRADE
2. VALVE BOX
3. WIRE SCREEN CLOTH
4. BRICK (1 OF 4)
5. 6" DEPTH OF 3/4" MINUS GRAVEL
6. ADS, SIZE AS REQUIRED
7. LEEMCO LMV-88 SERIES (OR EQUAL) BELL x BELL SELF-RESTRAINED, RESILIENT WEDGE GATE VALVE

5 ISOLATION VALVE

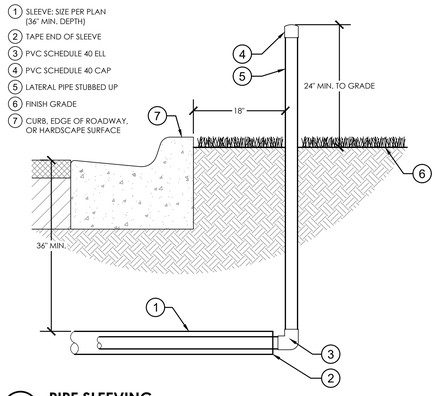
1 1/2" = 1'-0" 328406.33-14



1. 30-INCH LINEAR LENGTH OF WIRE, COILED
2. WATERPROOF CONNECTION (1 OF 2)
3. ZONE ID TAG
4. REMOTE CONTROL VALVE WITH PRESSURE REGULATOR
5. STANDARD VALVE BOX
6. PVC SCH 80 NIPPLE
7. PVC SCH 40 ELL
8. PVC SCH 40 TEE
9. PVC MAINLINE PIPE
10. PVC SCH 40 ADAPTER
11. 1/2" WIRE CLOTH GOPHER SCREEN WRAP ALL SIDES
12. BRICK (1 OF 4)
13. 6-INCH MINIMUM DEPTH 3/4" WASHED GRAVEL

6 PRESSURE REGULATING REMOTE CONTROL VALVE

1 1/2" = 1'-0" 328406.13-11



NOTE:
- FIELD ADJUST PIPING AS NECESSARY TO AVOID CONFLICT WITH DRAINAGE STRUCTURES, UTILITIES, AND PLANTINGS.
- REFER TO FLORIDA BUILDING CODE APPENDIX F FOR MINIMUM PIPE DEPTH OF COVER.
- WHERE MINIMUM PIPE DEPTH OF COVER IS NOT POSSIBLE, PIPE SLEEVING SHALL BE NECESSARY TO PROTECT PIPE IN SHALLOW AREAS.

1. FINISH GRADE
2. CURB, EDGE OF ROADWAY, OR HARDSCAPE SURFACE
3. BACKFILL PER IRRIGATION SPECIFICATIONS
4. IRRIGATION LATERAL PIPE 12" DEPTH
5. IRRIGATION MAINLINE PIPE 18" DEPTH
6. IRRIGATION CONTROL WIRE IN CONDUIT (SIZE AS REQUIRED)

8 MAINLINE AND LATERAL PIPING

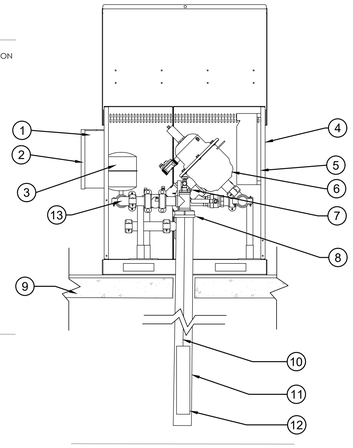
1 1/2" = 1'-0" 328409.76-37

PUMP ASSEMBLY

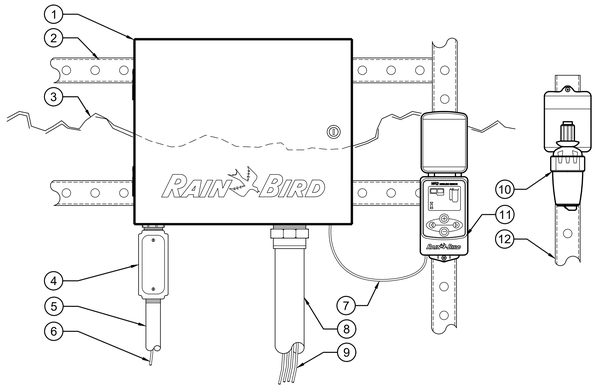
1. IRRIGATION CONTROLLER AND RAIN SENSOR SUPPLIED WITH PUMP STATION
2. PUMP CONTROL BOX WITH ELECTRICAL DISCONNECT
3. BLADDER TANK
4. MARINE GRADE ALUMINUM ENCLOSURE POWER COATED
5. VFD VOLTAGE PANEL FOR 7-1/2 HP SUBMERSIBLE
6. SCREEN FILTRATION (SUCTION SCANNER TYPE)
7. PRESSURE RELIEF VALVE
8. WELL SEAL
9. 12' x 12' x 4" THICK WIRE MESH REINFORCED
10. GALVANIZED SCH. 40 DROP PIPE
11. 5" WELL CASING
12. 7-1/2 HP SUBMERSIBLE PUMP. CONTRACTOR TO SUBMIT PUMP MODEL SPECIFICATIONS FOR AN IRRIGATION DEMAND OF 70 GPM & 60 PSI DISCHARGE. ELECTRICAL REQUIREMENT OF 230 VOLT/ THREE PHASE
13. 2" GROOVED GALV. PIPING

WELL NOTES:

1. ALL EXPOSED WELL EQUIPMENT TO BE PAINTED 2 COATS OF DARK GREEN FLAT EXTERIOR ENAMEL PAINT.
2. ALL MATERIAL MUST BE INSTALLED PER LOCAL CODES. CONTRACTOR WILL BE HELD RESPONSIBLE FOR CODE COMPLIANCE.
3. ELECTRICAL POWER DROP AND ELECTRICAL POWER SUPPLY TO PUMP CONTROL BOX AND IRRIGATION CONTROLLER IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL ELECTRICAL WORK SHALL BE BY A QUALIFIED ELECTRICAL CONTRACTOR. REFER TO THE GENERAL ELECTRICAL NOTES ON THE NOTES AND LEGEND SHEET.
4. WELL TESTING: WELL DRILLER SHALL NOTIFY THE PUMP SYSTEM MANUFACTURER IN WRITING WITHIN 24 HOURS OF DEVELOPING THE WELL. IF THE WELL PUMPING LEVEL IS GREATER THAN 25' BELOW FINISHED GRADE AFTER 8 HOURS OF CONTINUOUS PUMPING AT 125% (88 GPM) OF THE 70 GPM DESIGN FLOW.
5. PROVIDE MINIMUM OF 4' CLEARANCE ON ALL SIDES OF PUMP ENCLOSURE
6. DISTRICT MAINTENANCE TO PROVIDE CHAIN AND LOCK FOR GATE AND CONTRACTOR TO PROVIDE AN ADDITIONAL LOCK FOR ACCESS THROUGHOUT THE INSTALLATION AND ESTABLISHMENT PERIOD.
7. DISTRICT MAINTENANCE TO PROVIDE PADLOCK FOR PUMP ENCLOSURE. CONTRACTOR TO PROVIDE AN ADDITIONAL LOCK FOR PUMP ACCESS THROUGHOUT THE INSTALLATION AND ESTABLISHMENT PERIOD.



FRONT ELEVATION VIEW

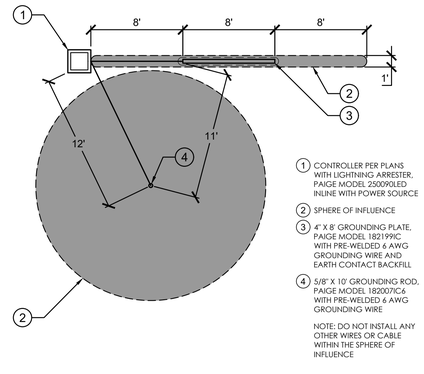


1. MODULAR WALL MOUNT IRRIGATION CONTROLLER; INSTALL CONTROLLER AND METAL CABINET ON UNISTRUT PER MANUFACTURER'S RECOMMENDATIONS.
2. UNISTRUT RISER, 42" HEIGHT
3. MAINTAINED LEVEL OF LANDSCAPE SHRUBS, ±36" HEIGHT
4. JUNCTION BOX
5. 1-INCH CONDUIT AND FITTINGS TO POWER SUPPLY
6. POWER SUPPLY WIRE
7. UV AND CORROSION RESISTANT SENSOR WIRE
8. 2-INCH CONDUIT AND FITTINGS FOR STATION WIRES
9. REMOTE CONTROL VALVE WIRES
10. RAIN/WEATHER SENSOR: MOUNT AT A HEIGHT ABOVE IRRIGATION SPRAY PATTERN (MIN. 6' HT)
11. WIRELESS SENSOR CONTROLLER INTERFACE
12. EXTEND UNISTRUT POST WITH SENSOR TO 6' HEIGHT

NOTES:
1. USE STEEL CONDUIT FOR ABOVE GRADE AND SCH 40 PVC CONDUIT FOR BELOW GRADE CONDITIONS.
2. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS.
3. SENSOR SHOULD NOT BE MOUNTED UNDER TREES, IN AREAS AFFECTED BY SPRINKLER SYSTEM OR UNDER BUILDING OVERHANGS.

9 MODULAR CONTROLLER WITH RAIN SENSOR ON UNISTRUT

3" = 1'-0" 328409.13-41

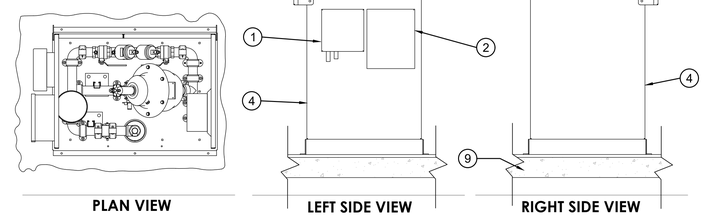


1. CONTROLLER PER PLANS WITH LIGHTNING ARRESTER, PAIGE MODEL 2500906LED INLINE WITH POWER SOURCE
2. SPHERE OF INFLUENCE
3. 4" X 8' GROUNDING PLATE, PAIGE MODEL 182199IC WITH PRE-WELDED 6 AWG GROUNDING WIRE AND EARTH CONTACT BACKFILL
4. 5/8" X 10' GROUNDING ROD, PAIGE MODEL 182007IC6 WITH PRE-WELDED 6 AWG GROUNDING WIRE

NOTE: DO NOT INSTALL ANY OTHER WIRES OR CABLE WITHIN THE SPHERE OF INFLUENCE

10 CONTROLLER GROUNDING

3/16" = 1'-0" 328409.79-30



PLAN VIEW | LEFT SIDE VIEW | RIGHT SIDE VIEW

11 7-1/2 HP SUBMERSIBLE PUMP

3/4" = 1'-0" 328409.11-06

This item has been digitally signed and sealed by **ERIC D. HARRISON, RLA**, on the date adjacent to the seal.

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FILE NAME:
DATE STAMP:

90% CONSTRUCTION DOCUMENTS

CLIENT

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Longwood, FL
32750

REGISTRATION

ERIC DOUGLAS HARRISON
No. 0667129
STATE OF FLORIDA
LANDSCAPE ARCHITECT

DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents

CONSULTANT

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West Palm Beach, FL 33401
561.746.6900
www.chenmoore.com

PROJECT STATUS

90% CONSTRUCTION DOCUMENTS

DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

1007657.00

SHEET TITLE

IRRIGATION DETAILS

SHEET NUMBER

IR-3
11 11



ALL EXISTING UTILITIES TO BE DEMOLISHED AND REMOVED WITHIN LIMITS OF DEMOLITION; UNLESS NOTED TO REMAIN

EXISTING PERIMETER CHAIN LINK FENCE TO REMAIN DURING DEMOLITION AS TEMPORARY CONSTRUCTION FENCING AS REQUESTED BY CORE. CONTRACTOR TO COORDINATE TIMING FOR FENCE REMOVAL AND INSTALLATION OF THE SITE SECURITY FENCING AS SHOWN ON THE ARCHITECTURAL PLAN.

OVERALL ARCHITECTURAL DEMOLITION PLAN 1" = 20'-0" (1)

DEMOLITION NOTES

1. ANY ITEMS TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED TO THE EXISTING CONDITION OR BETTER AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL REPAIR DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED, AT NO COST.
2. ALL EXISTING UTILITIES TO BE DEMOLISHED WITHIN LIMITS OF DEMOLITION.
3. ALL EXISTING UTILITY CONNECTIONS TO OTHER EXISTING BUILDINGS ON SITE. CONFIRM EACH LINE FOUND WITH CITY PRIOR TO DISCONNECTING & REMOVING.
4. REFER TO LANDSCAPE PLANS FOR TREE REMOVAL, RELOCATION AND PROTECTION INFORMATION. ANY AREAS FOR LANDSCAPING SHALL HAVE ALL BASE AND SUBGRADE MATERIAL REMOVED TO A DEPTH OF 3 FEET. LANDSCAPE PLAN SHOWING FULL DEVELOPMENT IS INCLUDED WITH THIS DEMOLITION PACKAGE TO SHOW FINAL LOCATION OF TREES TO BE RELOCATED.
5. THE INTENT OF THE DEMOLITION PLAN IS TO DEPICT EXISTING FEATURES THAT ENCUMBER THE PROPOSED CONSTRUCTION AREA AND ARE SCHEDULED FOR REMOVAL. SOME INCIDENTAL ITEMS MAY HAVE BEEN INADVERTENTLY OMITTED FROM THE PLAN. THE CONTRACTOR IS ENCOURAGED TO THOROUGHLY INSPECT THE SITE AS WELL AS REVIEW THE PLANS AND SPECIFICATIONS PRIOR TO SUBMITTING PRICING. CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR INCIDENTAL ITEMS NOT SHOWN ON THIS DEMOLITION PLAN.
6. DEMOLITION SHOULD BE COORDINATED WITH CONSTRUCTION PLAN TO DETERMINE EXTENT OF WORK. THE DRAWINGS DO NOT NECESSARILY SHOW COMPLETE DEMOLITION WORK REQUIRED, BUT RATHER SHOW INTENT OF DEMOLITION/CONSTRUCTION.
7. SCHEDULE AND COORDINATE WITH CITY FOR ITEMS NEEDING TO BE STORED AND/OR RELOCATED.
9. THE DEMOLITION PLAN IS BASED ON AVAILABLE UTILITY INFORMATION PROVIDED BY CITY, SURVEY AND VISUAL OBSERVATIONS AND MAY OR MAY NOT BE ALL INCLUSIVE FOR THIS SITE. ANY UTILITIES ENCOUNTERED DURING DEMOLITION THAT ARE NOT DEPICTED/ ADDRESSED ON THIS DRAWING SHOULD BE BROUGHT TO THE ATTENTION OF THE PROJECT ARCHITECT/ ENGINEER IMMEDIATELY.
10. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN PROTECTIONS FOR PERSONS AND ADJACENT AREAS, DURING DEMOLITION/CONSTRUCTION.
11. THE CONTRACTOR SHALL CAREFULLY REMOVE AND INVENTORY ITEMS NOTED TO BE SAVED FOR RELOCATION OR REUSE; PROVIDE FOR SAFE LOCKED STORAGE AND PROTECTION OF ITEMS AT SITE. CONTRACTOR SHALL TAKE PRECAUTIONS TO PRESERVE AND MAINTAIN EXISTING FINISH, OPERATIONAL CHARACTERISTICS, AND APPEARANCE OF ITEMS.
12. CONTRACTOR IS REQUIRED TO OBTAIN ALL DEMOLITION AND DEWATERING PERMITS, IF APPLICABLE.
13. ALL FEATURES IDENTIFIED ON THIS PLAN WHICH ARE LISTED TO BE DEMOLISHED ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.
14. THE CONTRACTOR SHALL REMOVE FROM SITE CONTAMINATED, VERMIN-INFESTED OR DANGEROUS MATERIALS ENCOUNTERED AND LEGALLY DISPOSE OF BY SAFE MEANS.
15. CONTRACTOR SHALL LIMIT ALL DEMOLITION ACTIVITIES TO THOSE AREAS DELINEATED ON THE CONSTRUCTION DRAWINGS UNLESS OTHERWISE DIRECTED BY THE CITY OF RIVIERA BEACH OR AS REQUIRED FOR CONSTRUCTION IMPROVEMENTS FOR THE NEW CURB CUTS ALONG BLUE HERON AND AVENUE S.
16. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING AIRBORNE DUST AND POLLUTANTS BY USING WATER SPRINKLING OR OTHER SUITABLE MEANS OF CONTROL.
17. CONTRACTOR TO USE CARE IN HANDLING DEBRIS FROM SITE TO ENSURE THE SAFETY OF THE PUBLIC. HAUL ROUTE TO BE CLOSELY MONITORED FOR DEBRIS OR MATERIALS TRACKED ONTO ADJOINING ROADWAYS, SIDEWALKS, ETC. ROADWAYS AND WALKWAYS TO BE CLEARED DAILY OR AS NECESSARY TO MAINTAIN PUBLIC SAFETY.
18. ALL EXISTING CONCRETE WALKWAYS, CURBING, AND ASPHALT TO BE REMOVED. PROVIDE SAWCUT JOINTS BETWEEN EXISTING TO BE DEMOLISHED AND IMPROVEMENTS TO REMAIN AND/OR ALONG DEMOLITION LIMITS (PROPERTY LINE)
19. CONTRACTOR TO SECURE THE SITE WITH FENCING, BARRICADES, ENCLOSURES, ETC. PER CITY OF RIVIERA BEACH ENGINEERING STANDARDS, ORDINANCES AND OTHER AGENCY REGULATIONS.
20. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION AND CONSTRUCTION. CONTRACTOR TO PROVIDE AND MAINTAIN AN APPROVED MOT PLAN
21. EXISTING STRUCTURES, ETC. LOCATED WITHIN THE PROJECT SITE. OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MANY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE CITY OF RIVIERA BEACH PRIOR TO REMOVAL OF SAID ITEMS.
22. CONTRACTOR SHALL COORDINATE THE LIMITS OF UTILITY DEMOLITION WITH PROPOSED PLANS.
23. CONTRACTOR TO PROVIDE SITE UTILIZATION PLAN THAT SHOWS BUT NOT LIMITED TO THE FOLLOWING: OFFICE TRAILERS, STAGING, PARKING, FENCING, ACCESS, ETC.
24. CONTRACTOR TO COORDINATE WITH CITY UTILITY DISCONNECTS TO THE SITE FOR BUILDING DEMOLITION, BUT NOT LIMITED TO THE FOLLOWING: WATER, FPL, PHONE, CABLE, FIRE ALARM, INTERNET, SECURITY, ETC.
26. ALL STRUCTURAL SLAB ON GRADE AND/OR FOUNDATIONS TO BE COMPLETELY REMOVED. ORGANIC SOILS AND UNDERGROUND MEP WITHIN THE EXISTING BUILDINGS FOOTPRINTS TO BE COMPLETELY REMOVED.
27. SITE SHALL BE CLEARED OF ALL ASPHALT AND CONCRETE AND LEFT CLEAN AND READY FOR NEW CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR STABILIZING THE SITE AND MAINTAINING EROSION CONTROL BEST MANAGEMENT PRACTICES IN ACCORDANCE WITH EROSION CONTROL PLAN AND LOCAL, STATE, AND FEDERAL REGULATIONS.
28. CONTRACTOR SHALL COORDINATE CLOSURE OF ANY STREETS/AVENUE/ACCESS ROAD WITH CITY AND ENSURE APPROPRIATE ACCESS TO ADJACENT PROPERTIES IS MAINTAINED.
29. REFERENCE COPY OF EXISTING DEVELOPMENT DRAWINGS PERMITTED IN 2001 PROVIDED BY THE CITY OF RIVIERA BEACH FOR ADDITIONAL INFORMATION. CONTRACTOR TO COORDINATE SITE VISIT WITH CITY TO BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO SUBMISSION OF PRICE PROPOSAL. SEE CIVIL AND LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.
30. CITY OF RIVIERA BEACH HAS AN EXISTING RAW WATER WELL AND EASEMENT WITHIN THE LIMITS OF THE DEMOLITION, WHICH MUST REMAIN OPERATIONAL AND PROTECTED THROUGHOUT THE ENTIRETY OF DEMOLITION AND CONSTRUCTION. CONTRACTOR TO COORDINATE WITH CITY, LOCATE AND VERIFY UTILITIES TO REMAIN CONNECTED WITH THE RAW WATER WELL.
31. REFER TO TREE DISPOSITION PLAN FOR TREE REMOVAL. ALL TREES NOT SPECIFICALLY SHOWN TO BE PRESERVED OR RELOCATED SHALL BE REMOVED AS A PART OF THIS CONTRACT. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO ANY DEMOLITION.

LEGEND

- DEMOLISH BUILDING OR STRUCTURE IN IT'S ENTIRETY. DEMOLISH EXISTING BUILDING SLAB AND SLAB PERIMETER FOOTING IN THEIR ENTIRETY. SEE GENERAL DEMOLITION NOTES AND KEYNOTES FOR ADDITIONAL INFORMATION.
- SITE AMENITY TO BE REMOVED OR RELOCATED BY CITY OF RIVIERA BEACH.
- EXISTING FPL EASEMENT AND RELATED UTILITIES TO REMAIN THROUGHOUT DEMOLITION AND CONSTRUCTION ACTIVITIES.
- EXISTING RAW WATER WELL EASEMENT AND RELATED UTILITIES TO REMAIN THROUGHOUT DEMOLITION AND CONSTRUCTION ACTIVITIES. CITY OF RIVIERA BEACH PUBLIC UTILITY.
- EXISTING RAW WATER WELL TO REMAIN PROTECTED FROM CONSTRUCTION ACTIVITIES. CITY OF RIVIERA BEACH REQUIRE ACCESS AS NEEDED, COORDINATE WITH CITY.

TRUE NORTH

0 10'-0" 20'-0" 40'-0"

SHEET KEYNOTES

1. EXISTING DUMPSTER ENCLOSURE SHALL BE REMOVED.
2. EXISTING PARKING ISLANDS TO BE DEMOLISHED
3. SEE LANDSCAPE DRAWINGS FOR TREE REMOVAL/RELOCATION INFORMATION, TYP.
4. EXISTING WALLS TO BE DEMOLISHED.
5. EXISTING SIDEWALKS TO BE DEMOLOSHED.
6. APPROXIMATE LIMITS OF EXISTING RETENTION POND TO REMAIN FOR REUSE. SEE CIVIL DRAWINGS.
7. EXISTING RAW WATER WELL TO REMAIN AND BE PROTECTED. CITY OF RIVIERA BEACH UTILITY.
8. NOTE: EXISTING PERIMETER CHAIN LINK FENCE TO REMAIN DURING DEMOLITION AS TEMPORARY CONSTRUCTION FENCING AS REQUESTED BY CORE. CONTRACTOR TO COORDINATE TIMING FOR FENCE REMOVAL AND INSTALLATION OF THE SITE SECUIRTY FENCING AS SHOWN ON THE ARCHITECTURAL SITE PLAN.
9. RIGHT-OF-WAY IS IN THE PROCESS OF BEING ABANDONED UNDER THE SITE PLAN APPROVAL PROCESS WITH THE CITY OF RIVIERA BEACH.

CLIENT

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REGISTRATION

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JOBY L. BALINT
AR0016653
REGISTERED ARCHITECT

JOBY L. BALINT, AIA AR-0016653

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DRAWING HISTORY

№	DATE	DESCRIPTION
C	7/29/2025	Demolition Package
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CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

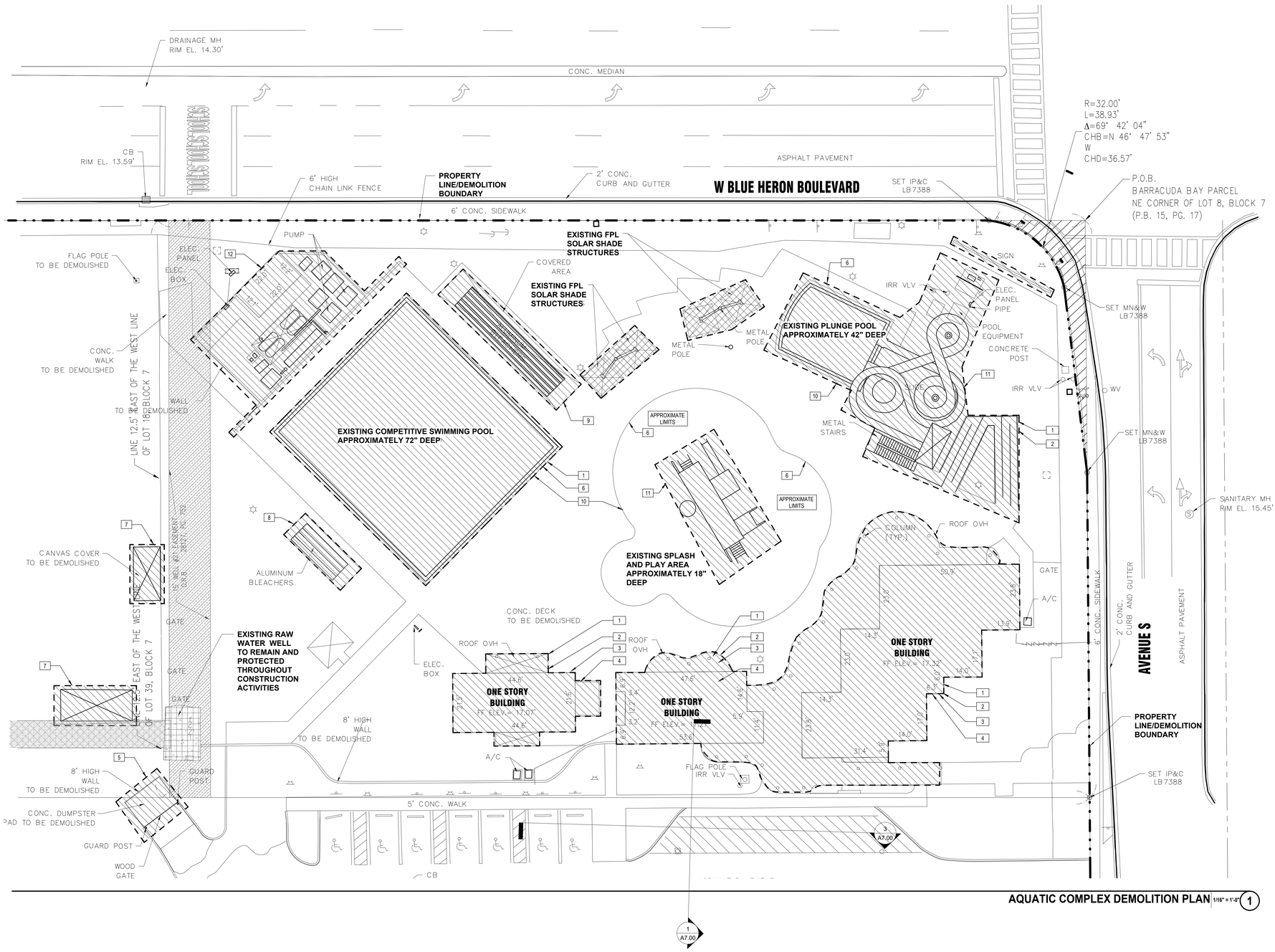
PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
OVERALL ARCHTECTURAL DEMOLITION PLAN

SHEET NUMBER
AD1.00

FILE NAME: Autodesk Docs://_1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
DATE STAMP: 10/24/2025 1:33:19 PM



AQUATIC COMPLEX DEMOLITION PLAN 1/16" = 1'-0" (1)

ALL EXISTING UTILITIES TO BE DEMOLISHED AND REMOVED WITHIN THE LIMITS OF DEMOLITION; UNLESS NOTED TO REMAIN. CONTRACTOR TO COORDINATE WITH THE CITY OF RIVIERA BEACH FOR DECOMMISSIONING THE POOL EQUIPMENT PRIOR TO BUILDING DEMOLITION. REFERENCE COPY OF THE EXISTING POOL DRAWINGS PERMITTED IN 2001 PROVIDED BY THE CITY OF RIVIERA BEACH. ANY REMAINING POOL CHEMICALS SHALL BE REMOVED AND PROPERLY DISPOSED PER CITY, STATE AND FEDERAL REGULATIONS.

DEMOLITION NOTES

1. ANY ITEMS TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED TO THE EXISTING CONDITION OR BETTER AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL REPAIR DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED, AT NO COST.
2. ALL EXISTING UTILITIES TO BE DEMOLISHED WITHIN LIMITS OF DEMOLITION.
3. ALL EXISTING UTILITY CONNECTIONS TO OTHER EXISTING BUILDINGS ON SITE. CONFIRM EACH LINE FOUND WITH CITY PRIOR TO DISCONNECTING & REMOVING.
4. REFER TO LANDSCAPE PLANS FOR TREE REMOVAL, RELOCATION AND PROTECTION INFORMATION. ANY AREAS FOR LANDSCAPING SHALL HAVE ALL BASE AND SUBGRADE MATERIAL REMOVED TO A DEPTH OF 3 FEET. LANDSCAPE PLAN SHOWING FULL DEVELOPMENT IS INCLUDED WITH THIS DEMOLITION PACKAGE TO SHOW FINAL LOCATION OF TREES TO BE RELOCATED.
5. THE INTENT OF THE DEMOLITION PLAN IS TO DEPICT EXISTING FEATURES THAT ENCUMBER THE PROPOSED CONSTRUCTION AREA AND ARE SCHEDULED FOR REMOVAL. SOME INCIDENTAL ITEMS MAY HAVE BEEN INADVERTENTLY OMITTED FROM THE PLAN. THE CONTRACTOR IS ENCOURAGED TO THOROUGHLY INSPECT THE SITE AS WELL AS REVIEW THE PLANS AND SPECIFICATIONS PRIOR TO SUBMITTING PRICING. CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR INCIDENTAL ITEMS NOT SHOWN ON THIS DEMOLITION PLAN.
6. DEMOLITION SHOULD BE COORDINATED WITH CONSTRUCTION PLAN TO DETERMINE EXTENT OF WORK. THE DRAWINGS DO NOT NECESSARILY SHOW COMPLETE DEMOLITION WORK REQUIRED, BUT RATHER SHOW INTENT OF DEMOLITION/CONSTRUCTION.
7. SCHEDULE AND COORDINATE WITH CITY FOR ITEMS NEEDING TO BE STORED AND/OR RELOCATED.
9. THE DEMOLITION PLAN IS BASED ON AVAILABLE UTILITY INFORMATION PROVIDED BY CITY, SURVEY AND VISUAL OBSERVATIONS AND MAY OR MAY NOT BE ALL INCLUSIVE FOR THIS SITE. ANY UTILITIES ENCOUNTERED DURING DEMOLITION THAT ARE NOT DEPICTED/ ADDRESSED ON THIS DRAWING SHOULD BE BROUGHT TO THE ATTENTION OF THE PROJECT ARCHITECT/ ENGINEER IMMEDIATELY.
10. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN PROTECTIONS FOR PERSONS AND ADJACENT AREAS, DURING DEMOLITION/CONSTRUCTION.
11. THE CONTRACTOR SHALL CAREFULLY REMOVE AND INVENTORY ITEMS NOTED TO BE SAVED FOR RELOCATION OR REUSE. PROVIDE FOR SAFE LOCKED STORAGE AND PROTECTION OF ITEMS AT SITE. CONTRACTOR SHALL TAKE PRECAUTIONS TO PRESERVE AND MAINTAIN EXISTING FINISH, OPERATIONAL CHARACTERISTICS, AND APPEARANCE OF ITEMS.
12. CONTRACTOR IS REQUIRED TO OBTAIN ALL DEMOLITION AND DEWATERING PERMITS. IF APPLICABLE.
13. ALL FEATURES IDENTIFIED ON THIS PLAN WHICH ARE LISTED TO BE DEMOLISHED ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.
14. THE CONTRACTOR SHALL REMOVE FROM SITE CONTAMINATED, VERMIN-INFESTED OR DANGEROUS MATERIALS ENCOUNTERED AND LEGALLY DISPOSE OF BY SAFE MEANS.
15. CONTRACTOR SHALL LIMIT ALL DEMOLITION ACTIVITIES TO THOSE AREAS DELINEATED ON THE CONSTRUCTION DRAWINGS UNLESS OTHERWISE DIRECTED BY THE CITY OF RIVIERA BEACH OR AS REQUIRED FOR CONSTRUCTION IMPROVEMENTS FOR THE NEW CURB CUTS ALONG BLUE HERON AND AVENUE S.
16. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING AIRBORNE DUST AND POLLUTANTS BY USING WATER SPRINKLING OR OTHER SUITABLE MEANS OF CONTROL.
17. CONTRACTOR TO USE CARE IN HANDLING DEBRIS FROM SITE TO ENSURE THE SAFETY OF THE PUBLIC. HAUL ROUTE TO BE CLOSELY MONITORED FOR DEBRIS OR MATERIALS TRACKED ONTO ADJOINING ROADWAYS, SIDEWALKS, ETC. ROADWAYS AND WALKWAYS TO BE CLEARED DAILY OR AS NECESSARY TO MAINTAIN PUBLIC SAFETY.
18. ALL EXISTING CONCRETE WALKWAYS, CURBING, AND ASPHALT TO BE REMOVED. PROVIDE SAWCUT JOINTS BETWEEN EXISTING TO BE DEMOLISHED AND IMPROVEMENTS TO REMAIN AND/OR ALONG DEMOLITION LIMITS (PROPERTY LINE)
19. CONTRACTOR TO SECURE THE SITE WITH FENCING, BARRICADES, ENCLOSURES, ETC. PER CITY OF RIVIERA BEACH ENGINEERING STANDARDS, ORDINANCES AND OTHER AGENCY REGULATIONS.
20. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION AND CONSTRUCTION. CONTRACTOR TO PROVIDE AND MAINTAIN AN APPROVED MOT PLAN
21. EXISTING STRUCTURES, ETC. LOCATED WITHIN THE PROJECT SITE OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MANY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTORS RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE CITY OF RIVIERA BEACH PRIOR TO REMOVAL OF SAID ITEMS.
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TRUE NORTH

0 4'-0" 8'-0" 16'-0"

SHEET KEYNOTES

1. ALL EXISTING PLUMBING SHALL BE CUT AND CAPPED TO DEMOLITION BOUNDARY LIMIT TYP.
2. ALL EXISTING ELECTRICAL SHALL BE CUT AND CAPPED TO DEMOLITION BOUNDARY LIMIT.
3. ALL EXISTING INTERIOR AND EXTERIOR WALLS SHALL BE REMOVED.
4. ALL EXISTING GAS LINES SHALL BE CUT AND CAPPED TO DEMOLITION BOUNDARY LIMIT.
5. EXISTING DUMPSTER ENCLOSURE SHALL BE REMOVED.
6. EXISTING POOL, UG PIPING, GUTTER SYSTEM AND STRUCTURE TO BE REMOVED. INCLUDING ORGANIC SOILS. AREA TO HAVE SOILS IMPROVEMENTS PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS FOR FUTURE BUILDING FOUNDATIONS. REFERENCE GEOTECHNICAL REPORT BY UES.
7. EXISTING CANVAS STRUCTURE TO BE REMOVED.
8. EXISTING ALUMINUM BLEACHERS AND CONCRETE S.O.G. TO BE REMOVED.
9. EXISTING ALUMINUM BLEACHERS AND SHADE STRUCTURE TO BE REMOVED.
10. EXISTING POOL DECK, DRAINS, HOSE BIBS, AND LIGHTING TO BE REMOVED.
11. EXISTING WATER ACTIVITY PLAY EQUIPMENT TO BE REMOVED.
12. EXISTING POOL EQUIPMENT COMPOUND ENCLOSURE AND WATER CHEMISTRY BUILDING TO BE REMOVED. INCLUDING BUT NOT LIMITED TO THE FOLLOWING; HOLDING TANKS, PIPING, ELECTRICAL, SLAB ANCHORS (DEAD WEIGHTS), ETC.

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CONSULTANT

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RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER
1007657.00

SHEET TITLE
AQUATIC COMPLEX DEMOLITION PLAN

SHEET NUMBER
AD1.10

FILE NAME: Autodesk Docs// 1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
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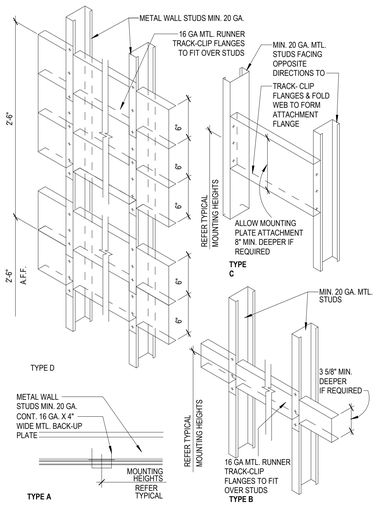
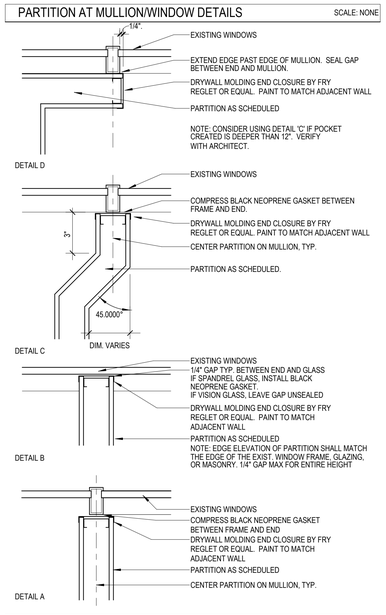
NON COMBUSTIBLE BACKING

SCALE: NONE



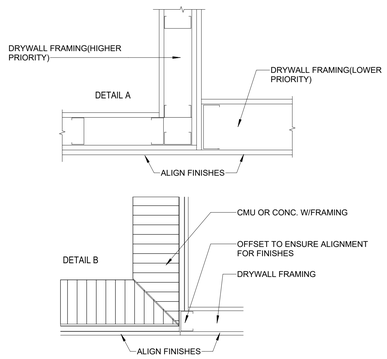
PARTITION AT MULLION/WINDOW DETAILS

SCALE: NONE



PARTITION ALIGNMENT DETAILS

SCALE: NONE



ACOUSTICAL NOTES FOR STC LISTED PARTITIONS

1. REFERENCE SECTION 3 IN THE 22ND EDITION GA-600 2018 "FIRE RESISTANCE AND SOUND CONTROL - GYPSUM SYSTEMS" REGARDING ADDITIONAL DETAILS AND NOTES REGARDING STC RATED PARTITIONS FOR ACOUSTICAL TRANSMISSION MITIGATION.
2. ALL ACOUSTICALLY CLASSED PARTITIONS SHALL BE CONSTRUCTED IN STRICT ACCORDANCE TO THE REFERENCED TEST.
3. STAGGER AND SEAL ALL JOINTS ON MULTIPLE GYPSUM BOARD LAYER PARTITIONS BY ONE STUD SPACING.
4. SEAL ALL PERIMETER GAPS, AIR TIGHT, AT THE FLOORS, HEAD, ADJACENT CONSTRUCTION AND AROUND ANY PENETRATING ELEMENTS WITH INTERIOR GRADE ACOUSTICAL SEALANT. ALL METAL FLOOR TRACKS SHALL BE INSTALLED ON TWO (2) CONTINUOUS BEADS OF ACOUSTICAL SEALANT.
5. ALL BATTS AND BLANKETS IN RATED WALLS MUST BEAR THE REQUIRED U.L. CLASSIFICATION MARKING AS TO FIRE-RESISTANCE.
6. AT ACOUSTICALLY RATED PARTITIONS, DO NOT FILL THE STUD CAVITY (DEPTH) FULLY WITH SOUND BATTS. THE WIDTH OF THE SOUND BATTS SHOULD BE SLIGHTLY SMALLER THAN CAVITY TO AVOID BATTS COMPRESSION. HOWEVER, THE ENTIRE LENGTH AND HEIGHT OF THE WALL SHOULD HAVE CONTINUOUS AND UNINTERRUPTED SOUND ATTENUATION BATTS.
7. REFER TO PARTITION SCHEDULE FOR DESIGNATED STC RATING.
8. SEAL ALL WALL INTERSECTIONS AND CONTROL JOINTS AT ACOUSTICALLY CLASSED PARTITIONS PER CURRENT GA-600 DESIGN MANUAL.
9. SEAL ALL OUTLETS, JUNCTION BOXES, SWITCHES, CONDUIT, PIPES, DUCT AND STRUCTURAL PENETRATIONS ACCORDING TO CURRENT GA-600 DESIGN MANUAL USING ACOUSTICAL SEALANT ASTM C557 - ASTM C919 TYPE SEALANT; WHERE PARTITION IS ALSO FIRE RATED SEALANT SHALL BE UL LISTED.
10. STAGGER ALL ELECTRICAL OUTLETS AND JUNCTION BOXES BETWEEN OPPOSITE ROOMS OF ACOUSTICALLY CLASSED PARTITIONS PREVENT SOUND TRANSFER BY ONE STUD CAVITY.
11. LOW VOLTAGE JUNCTION BOXES THAT ARE INTERCONNECTED BY CONDUIT; USE LIQUID SEAL AT INTERCONNECTING CONDUIT.

FIRE RATING NOTES / REQUIREMENTS

1. UNDERWRITERS LABORATORY AND OTHER TESTING AGENCY DESIGNATIONS INDICATED FOR FIRE RESISTIVE CONSTRUCTION ARE GIVEN FOR PURPOSES OF DESCRIBING CONSTRUCTION REQUIREMENTS ONLY AND ARE NOT INTENDED TO LIMIT MANUFACTURERS OF MATERIALS. COMPLY WITH THE CONSTRUCTION REQUIREMENTS OF THE INDICATED DESIGN.

2. ALL PARTITION TYPES SHOWN HERE ARE DRAWN AS "NON FIRE-RATED". WHERE FIRE RESISTIVE WALL CONSTRUCTION IS INDICATED, ON THE FLOOR PLANS AND / OR LIFE SAFETY PLANS, PROVIDE "TYPE X" GYPSUM WALLBOARD AND FIRE RATED SEALANT AT PERIMETER JOINTS AND ALL PENETRATIONS. TYPICAL BOTH SIDES OF PARTITION AS INDICATED ON THE U.L. DETAILS AND ASSEMBLIES. REFER TO LIFE SAFETY DRAWINGS FOR FIRE RATED WALL LOCATIONS.

3. REFER TO SHEET(S) A0.15 THRU A0.16 FOR THROUGH PENETRATION FIRESTOPPING; RATED JOINT SYSTEMS; AND A SCHEDULE OF LISTED ASSEMBLIES OR SYSTEMS.

4. PER 8TH EDITION (2023) FBC - BUILDING 703.7 "MARKING AND IDENTIFICATION"

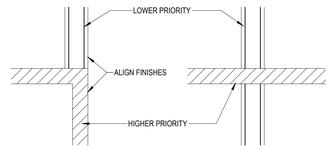
   WHERE THERE IS AN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACE, FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING IN THE CONCEALED SPACE. SUCH IDENTIFICATION SHALL

   1. BE LOCATED WITHIN 15 FEET OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FEET MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION

   2. INCLUDE LETTERING NOT LESS THAN 3 INCHES (76 MM) IN HEIGHT WITH A MINIMUM 3/8-INCH (9.5 MM) STROKE IN A CONTRASTING COLOR INCORPORATING THE SUGGESTED WORDING, "FIRE AND/OR SMOKE BARRIER—PROTECT ALL OPENINGS," OR OTHER WORDING

GYPSUM BOARD PARTITION FIRE/SOUND PRIORITY

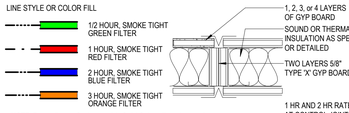
PARTITION	PRIORITY
FOUR HOUR FIRE PARTITION	PRIORITY 1 - HIGHEST
TWO HOUR FIRE/SMOKE PARTITION	PRIORITY 2
TWO HOUR FIRE PARTITION	PRIORITY 3
ONE HOUR FIRE/SMOKE PARTITION	PRIORITY 4
ONE HOUR FIRE PARTITION	PRIORITY 5
0.5 HOUR FIRE PARTITION	PRIORITY 6
NON-RATED SMOKE PARTITION	PRIORITY 7
SOUND / ACOUSTICAL PARTITION	PRIORITY 8
NON-RATED PARTITION	PRIORITY 9 - LOWEST



NOTE: ALL INTERSECTING JOINTS TO BE TAPED AND SEALED WITH JOINT COMPOUND

FIREWALL PARTITION LEGEND / RATED E.J.

NOTE: PRINT THIS SHEET & LIFE SAFETY PLANS IN COLOR FOR EASIER COORDINATION.

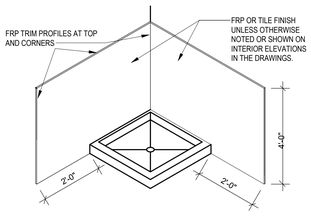


NOTE: Depending on Scale, possibly Solid Color will read more clear.

JANITOR SINK - NONABSORBENT WALL PROTECTION

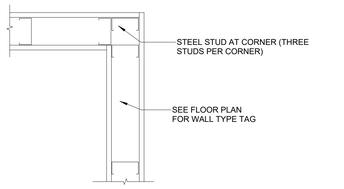
SCALE: NONE

MINIMUM DIMENSIONAL REQUIREMENTS PER CURRENT FBC-BUILDING SECTION 1210.2.2 FOR WALLS AND PARTITIONS.



PARTITION CORNER REINFORCEMENT

SCALE: NONE



DETAIL - GYPSUM BOARD PARTITION CORNER REINFORCEMENT

PARTITION LEGEND

FIRST 3 DIGITS OF EACH PARTITION TYPE TAG DESCRIBE PARTITION TYPES. THIRD DIGIT/LETTER INDICATES NOMINAL THICKNESS OF METAL STUD OR MASONRY. LAST NUMERIC DIGIT INDICATES HOURLY "FIRE RESISTIVE RATING" REQUIRED OF THAT PARTITION.

If need be: "Partition Types" may be altered to be as below if more identifying parameters must be defined for Project needs.
Sample: A01-A99, B01-B99, etc...
i.e. A014_ B0142

PARTITION TAG: **B1 4 1**

TYPE OF PARTITION:
- [A] = MTL STUD-SINGLE LAYER GYP. WALL
- [B] = MTL STUD-MULTI LAYER GYP. WALL
- [C] = CHASE WALL
- [F] = FURRING WALL
- [M] = MASONRY OR MASONRY W/ FURRING
- [P] = PARTIAL HEIGHT STUD WALL
- [S] = SHAFT WALL
- [T] = TEMPORARY WALL
- [Y] = SECURITY WALL

THICKNESS OF PARTITION FRAMING COMPONENT:
- [0] = 7/8" METAL STUD
- [1] = 1 5/8" METAL STUD
- [2] = 2 1/2" METAL STUD
- [3] = 3 5/8" METAL STUD
- [4] = 4" METAL STUD, 3 5/8" CMU
- [5] = 6" METAL STUD, 5 5/8" CMU
- [8] = 8" METAL STUD, 7 5/8" CMU
- [9] = 11 5/8" CMU

FIRE RATING REQUIREMENT ("0" or BLANK FOR NO RATING)
- [5]= 30 MIN. RATING
- [1]= 1 HR RATING
- [2]= 2 HR RATING
- [3]= 3 HR RATING
- [4]= 4 HR RATING

GENERAL NOTES

1. ALL POSSIBLE VARIATIONS OF PARTITIONS TYPES AND U.L. FIRE RATINGS ARE NOT NECESSARILY UTILIZED IN THIS PROJECT AND ARE SHOWN FOR REFERENCE ONLY . **UNLESS** FIRE RATED PARTITIONS ARE INDICATED ON THE FLOOR PLANS AND / OR LIFE SAFETY PLANS . WHERE U.L. RATED PARTITIONS ARE INDICATED, REFER TO FLOOR PLANS AND / OR LIFE SAFETY PLANS; PROVIDE UL LISTED FIRE SEALANT AT THOSE LOCATIONS AS REQUIRED.
2. "LINE OF OVERHEAD STRUCTURE" INDICATED FOR EACH PARTITION IS DIAGRAMMATIC ONLY AND DOES NOT INDICATE EXACT CONSTRUCTION CONDITIONS.
3. WHERE FULL HEIGHT PARTITIONS ARE PERPENDICULAR TO SPAN OF STRUCTURAL JOISTS OR GIRDERS, THE PARTITION SHALL EXTEND TO THE UNDERSIDE OF FLOOR DECK AND FOLLOW THE LINE OF FLOOR DECK.
4. PRIOR TO GYPSUM BOARD INSTALLATION, GENERAL CONTRACTOR / CM SHALL COORDINATE FRAMING WORK WITH ALL RELATED TRADES.
5. ALL GYPSUM BOARD TO BE 5/8" THICK UNLESS OTHERWISE NOTED.
6. PROVIDE 5/8" CEMENTITIOUS BACKER BOARD ON ALL NON-WET WALLS TO RECEIVE LARGE FORMAT TILE FINISH.
7. PROVIDE 5/8" DENS SHIELD TILE BACKER AT ALL NON-WET WALLS AND WET WALLS TO RECEIVE A TILE FINISH
8. PROVIDE 5/8" MOISTURE RESISTANT GYPSUM BOARD FULL HEIGHT AT ALL WET WALLS AND WITHIN 4'-0" OF WET WALLS (PLUMBING FIXTURES) TO BE PAINTED AND WILL NOT RECEIVE A TILE FINISH; SUCH AS, JANITORS CLOSET, DRINKING FOUNTAINS, TOILETS, SINKS, ETC.
9. PROVIDE 1/2" WATER RESISTANT GYPSUM BOARD ON CEILINGS IN ROOMS THAT INCLUDE SHOWERS.
10. EXPOSED BUILDING INSULATION SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOP INDEX OF NO MORE THAN 450, PER FBC SECTION 719.3
11. LOCATE CONTROL JOINTS NOT TO EXCEED 50'-0" O.C. IN EITHER DIRECTION FOR GWB CEILINGS AND 30'-0" O.C. IN EITHER DIRECTION FOR GWB PARTITIONS. SUBMIT TO ARCHITECT FOR REVIEW AND APPROVAL.
12. WHERE A PARTITIONS ADJOINS A ROOM / SPACE THAT IS SCHEDULED NOT TO RECEIVE A FINISHED CEILING AND THE WALL (PARTITION) TYPE IS SCHEDULED TO STOP 4" ABOVE A FINISHED CEILING, THE GYPSUM BOARD SHALL EXTEND TO THE BUILDING STRUCTURE ABOVE AT THE ROOM / SPACE WITHOUT A FINISHED CEILING.
13. STC RATINGS SHOWN ARE BASED ON LABORATORY TESTED ASSEMBLIES AND DO NOT NECESSARILY INDICATE THE ACTUAL STC RATING OF THE COMPLETED WORK. PROVIDE MTL. DECK FILLERS WHERE FULL HEIGHT PARTITIONS ARE PERPENDICULAR TO SPAN OF DECK. DECK FILLERS ARE TO BE COMPATIBLE WITH ALL FIRE RATED ASSEMBLIES AND ARE TO BE APPROVED BY ALL GOVERNING AGENCIES.
14. PROVIDE NON-COMBUSTIBLE IN WALL BLOCKING (5/8" FR PLYWOOD OR FR 2X WOOD OR METAL STUD) FOR ITEMS SUCH AS TOILET ACCESSORIES, TOILET PARTITIONS, MILLWORK, DOOR STOPS, DOOR BUMPERS, WALL RAILS, HANDRAILS, ETC.
15. ALL EXTERIOR FRAMING (WALLS AND CEILINGS) TO BE DESIGNED BY SPECIALTY ENGINEER, REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION

DRYWALL FINISH REQUIREMENTS

1. LEVEL 3 FINISH: ALL JOINTS TO BE TAPED AND COATED
   A. ALL DRYWALL ABOVE THE CEILING.
   B. BEHIND CASEWORK.
   C. BEHIND WALL TILE AT NON-WET WALLS
2. LEVEL 4 FINISH: ALL VISIBLE DRYWALL THAT WILL BE PAINTED
3. LEVEL 5 FINISH: WHERE INDICATED IN THE DRAWINGS.
4. REFER TO SPECIFICATIONS FOR MORE INFORMATION

LIMITING HEIGHT NOTES

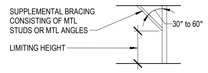
CONTRACTOR TO BID AND SUBMIT METAL STUD SIZES AND SPACING GAUGES THAT COMPLY WITH PROJECT REQUIREMENTS.

LIMITING HEIGHTS ARE BASED ON STEEL STUD MANUFACTURES ASSOCIATION GUIDELINES CURRENT ICC ESR#3064P, ASTM AND IN COMPLIANCE WITH CURRENT FBC ASTM C754 FOR STUDS AND RUNNERS.

STUDS FOR FURRED PARTITIONS WHICH EXCEED 12'-0" HEIGHT REQUIRE MID-HEIGHT BRACE TO ADJACENT WALL

INTERIOR COLD FORMED FRAMING NOTES

1. METAL STUD FRAMING TO BE 22 ga. (MINIMUM) UNLESS OTHERWISE SPECIFIED IN THE PROJECT MANUAL AND / OR UL LISTED ASSEMBLY. ALL FRAMING TO BE PLACED AT 16" O.C. UNLESS NOTED OTHERWISE OR WHERE THE LIMITING HEIGHT REQUIRES A HEAVIER GAUGE OR REDUCED SPACING.
2. FURRING CHANNELS TO BE 25 ga. AND PLACED AT 16" O.C. UNLESS NOTED OTHERWISE.
3. PARTITIONS SUPPORTING WALL HUNG PLUMBING FIXTURES AND MILLWORK SHALL BE 20 ga. PLACED AT 16" O.C.
4. REFER TO ASTM C754 FOR LIMITING HEIGHTS CRITERIA. LIMITING HEIGHTS ARE TO BE DETERMINED BY DEFLECTION CRITERIA RATIO OF L/240, AND LATERAL PRESSURE OF 5 PSF UNLESS NOTED OTHERWISE OR DICTATED OTHERWISE BY PRESIDING BUILDING CODE. WHERE FLOOR TO STRUCTURE HEIGHT OF EXCEEDS THE INDICATED LIMITING HEIGHT, PROVIDE SUPPLEMENTAL BRACING TO THE STRUCTURE OVERHEAD AS REQUIRED TO MAINTAIN REQUIRED DEFLECTION RATIO.
5. FOR PARTITIONS WITH "BRITTLE" FINISHES SUCH AS PLASTER AND TILE, DESIGN PARTITION SYSTEM TO MAINTAIN DEFLECTION RATIO WITHIN L/360. SUSPENDED CEILINGS SHALL NOT BE CONSIDERED AS BRACING.



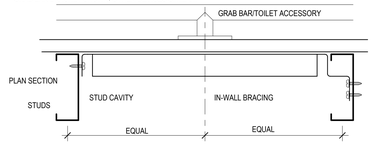
GRAB BAR/TOILET ACCESSORY BACKING

SCALE: NONE

PROVIDE IN-WALL BRACING IN ALL PARTITIONS OR EXTERIOR WALLS WHERE GRAB BARS, HANDRAILS, SHOWER SEATS OR OTHER EQUIPMENT ANCHORS TO METAL STUD WALLS AND IN OTHER LOCATIONS AS NOTED ON THE DRAWINGS.

CENTER STUDS ABOUT THE LOCATION OF THE DEVICE ANCHOR POINT.

GRAB BAR BRACKET SHOWN, OTHER DEVICES SIMILAR.

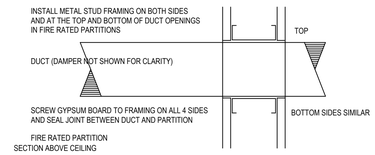


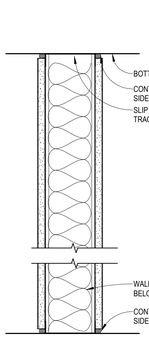
IN-WALL BRACING SHALL BE NO LESS THAN A 6" x 1 1/4" x 14 GAUGE CHANNEL, STEEL Fy = 50ksi, AND SHALL SUPPORT A 250 POUND GRAVITY LOAD CONCENTRATED AT ANY POINT ON THE DEVICE BEING ANCHORED.

16 GA.x4" WIDE MTL BACKUP PLATE MAY BE USED

DUCT PENETRATIONS

SCALE: NONE





PARTITION TYPE A3: METAL STUDS WITH ONE LAYER 5/8" GYP. BD. ON EACH SIDE.

PARTITION TYPE A3

PARTITION SCHEDULE A3

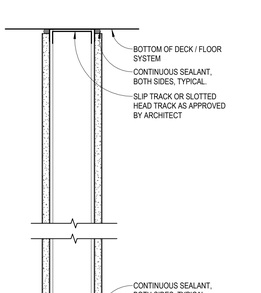
Wall Type	Type Mark: Type	Stud #	F.R.	Insul	Wall Depth	Gyp Width	Fire Rating	UL Code	STC #	Comments
A33.0	A3	3	0		4 7/8"	5/8"	0HR			
A36.0	A3	6	0		7 1/4"	5/8"	0HR			

PARTITION TYPE A2: METAL STUDS WITH ONE LAYER 5/8" GYP. BD. EACH SIDE, AND 2 1/2" ACOUSTICAL INSULATION FULL HEIGHT. (RE: UL DESIGN)

PARTITION TYPE A2

PARTITION SCHEDULE A2

Wall Type	Type Mark: Type	Stud #	F.R.	Insul	Wall Depth	Gyp Width	Fire Rating	UL Code	STC #	Comments
A23.0	A2	3	0		4 7/8"	5/8"	0HR			
A23.0	A2	3	2		4 7/8"	5/8"	0HR			
A24.0	A2	4	0		5 1/4"	5/8"	0HR			
A26.0	A2	6	0		7 1/4"	5/8"	0HR			



PARTITION TYPE A4: METAL STUDS WITH ONE LAYER 5/8" GYP. BD. ON EACH SIDE AND ACOUSTICAL BATT INSULATION FULL WIDTH OF STUD AS SHOWN.

PARTITION TYPE A4

PARTITION SCHEDULE A4

WALL TYPE	Type Mark: Type	Stud #	F.R.	Insul	Wall Depth	Gyp Width	Fire Rating	UL Code	STC #	Comments
A43.0	A4	3	0		4 7/8"	5/8"	0HR			
A43.0	A4	3	0		4 7/8"	5/8"	0HR			
A46.0	A4	6	0		7 1/4"	5/8"	0HR			

PARTITION TYPE A1: METAL STUDS WITH ONE LAYER OF 5/8" GYP BD EACH SIDE.

PARTITION TYPE A1

PARTITION SCHEDULE A1

Wall Type	Type Mark: Type	Stud #	F.R.	Insul	Wall Depth	Gyp Width	Fire Rating	UL Code	STC #	Comments
A11.0	A1	1	0		2 3/4"	5/8"	0HR			
A13.0	A1	3	0		4 7/8"	5/8"	0HR			
A16.0	A1	6	0		7 1/4"	5/8"	0HR			

FILE NAME: Autodesk Docs://_1007657.00_-_CORE_-_City_of_Riviera_Beach_D/1007657.00_RBPD_A_R24.rvt
DATE STAMP: 10/24/2025 1:31:00 PM

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CORE CONSTRUCTION
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West Palm Beach
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PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
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REGISTRATION

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JOBY L. BALINT, AIA AR-0016653

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DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

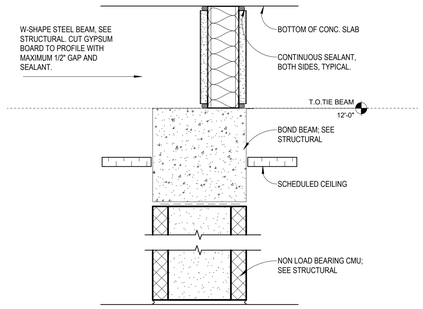
PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER
1007657.00

SHEET TITLE
GENERAL PARTITION NOTES, DETAILS, AND TYPES

SHEET NUMBER
A0.10

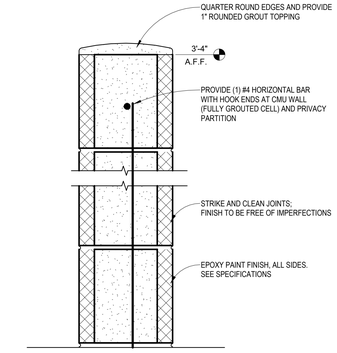


PARTITION TYPE M8: GROUT FILLED CMU WITH 5/8" GYP. BD. EACH SIDE OF 2 1/2" METAL STUDS; INFILL FRAMING TO DECK. AT RATED WALLS USE TYPE "X" GYP. BD. PER UL U411.

PARTITION TYPE M8

PARTITION SCHEDULE M8

	Type Mark										
WALL TYPE	Type	Stud #	F.R.	Insul	Wall Depth	Gyp Width	Fire Rating	UL Code	STC #	Comments
M8.0	M				7 5/8"		0HR			
M8.1	M		1		7 5/8"		1HR			
M8.2	M		1		7 5/8"		2HR			



PARTITION TYPE M1: 40" HIGH PRIVACY PARTITION AT HOLDING CELL, FULLY GROUTED WITH (1) #4 VERTICAL BAR IN EACH CELL. EPOXY BARS WITH 6" EMBEDMENT AT SOG.

PARTITION TYPE M1

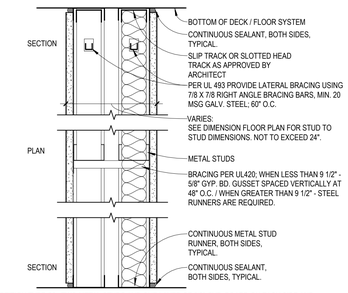
PARTITION SCHEDULE M1

	Type Mark										
WALL TYPE	Type	Stud #	F.R.	Insul	Wall Depth	Gyp Width	Fire Rating	UL Code	STC #	Comments
M1.0	M	4	0		3 7/8"		0HR			

PARTITION SCHEDULE NOTE:

THE STUD # UNDER "TYPE MARK" REFERS TO THE FOLLOWING LEGEND BELOW FOR METAL STUD SIZE AND/OR CMU THICKNESS:

[0] = 7/8" METAL STUD
[1] = 1 5/8" METAL STUD
[2] = 2 1/2" METAL STUD
[3] = 3 5/8" METAL STUD
[4] = 4" METAL STUD, 3 5/8" CMU
[6] = 6" METAL STUD, 5 5/8" CMU
[8] = 8" METAL STUD, 7 5/8" CMU
[9] = 11 5/8" CMU

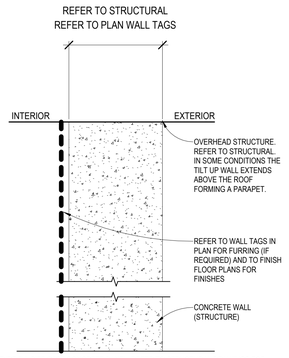


PARTITION TYPE C2: TWO METAL STUDS AND ONE LAYER OF 5/8" GYP. BOARD ON EACH SIDE AND ACOUSTICAL BATT INSULATION FULL WIDTH OF STUD, FULL HEIGHT

PARTITION TYPE C2

PARTITION SCHEDULE C2

	Type Mark										
WALL TYPE	Type	Stud #	F.R.	Insul	Wall Depth	Gyp Width	Fire Rating	UL Code	STC #	Comments
C21.0	C2	1	0	Yes	10"	5/8"	0HR			5 1/2" AIR SPACE
C23.0	C2	3	0	Yes	1'-2 1/2"	5/8"	0HR			6" AIR SPACE

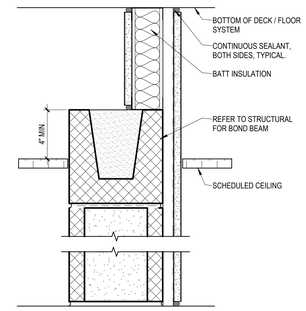


PARTITION TYPE TU: SITE CAST CONCRETE PANEL; REFER TO STRUCTURAL DRAWINGS FOR PANEL THICKNESS. SEE EXTERIOR ELEVATIONS FOR FINISHES AND INTERIOR SCHEDULE FOR FINISHES. JOINTS TO HAVE CONTINUOUS SEALANT AND BACKER RODS ON BOTH SIDES

PARTITION TYPE TU

PARTITION SCHEDULE TU

	Type Mark										
WALL TYPE	Type	Stud #	F.R.	Insul	Wall Depth	Gyp Width	Fire Rating	UL Code	STC #	Comments
TU					8"					
TU.1			1		8"		1HR			

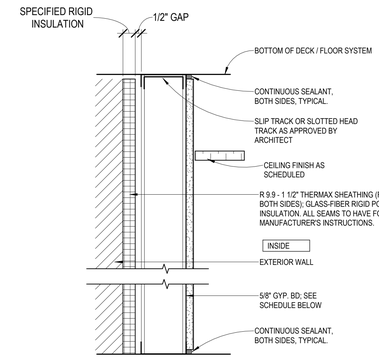


PARTITION TYPE M7: PARTIAL HEIGHT GROUT FILLED CMU TO ABOVE CLG., 7/8" MTL. FURRING CHANNELS WITH 5/8" GYP. BOARD ONE SIDE FULL HEIGHT.

PARTITION TYPE M7

PARTITION SCHEDULE M7

	Type Mark										
WALL TYPE	Type	Stud #	F.R.	Insul	Wall Depth	Gyp Width	Fire Rating	UL Code	STC #	Comments
M70.0	M7	0			9 1/8"	5/8"	0HR			
M70.1	M7	0	1		<varies>	5/8"	1HR			
M70.2	M7	0	1		9 1/8"	5/8"	2HR			

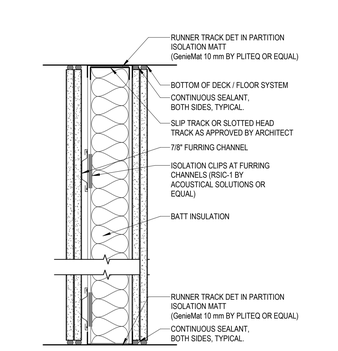


PARTITION TYPE F7: EXTERIOR WALL FURRING WITH CONTINUOUS INSULATION; METAL STUDS WITH ONE LAYER 5/8" GYP. BD. ON ONE SIDE.

PARTITION TYPE F7

PARTITION SCHEDULE F7

	Type Mark										
Wall Type	Type	Stud #	F.R.	Insul	Wall Depth	Gyp Width	Fire Rating	UL Code	STC #	Comments
F71.0	F7	1	0		1'-0 3/8"	5/8"				
F71.1	F7	1	1		1'-0 3/8"	5/8"	1HR			
F73.0	F7	3	0		1'-2 3/8"	5/8"				
F73.1	F7	3	1		1'-2 3/8"	5/8"	1HR			

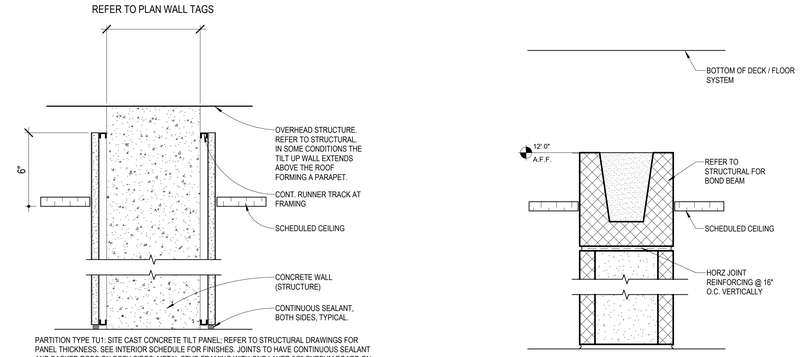


PARTITION TYPE B5: 20 GA METAL STUDS 16" O.C.; AND 7/8" FURRING CHANNELS WITH ISOLATION CLIPS AT 24" O.C. TWO LAYERS 5/8" BD. ON BOTH SIDES FILLED WITH 5 1/2" FIBERGLASS INSULATION FULL HEIGHT. ASSEMBLY BASED UPON ACOUSTICAL TEST No. NGC2018193

PARTITION TYPE B5

PARTITION SCHEDULE B5

	Type Mark										
Wall Type	Type	Stud #	F.R.	Insul	Wall Depth	Gyp Width	Fire Rating	UL Code	STC #	Comments
B53.0	B5	3	0	Yes	7"	5/8"	0HR		63	
B56.0	B5	6	0	Yes	9 3/8"	5/8"	0		63	



PARTITION TYPE TU1: SITE CAST CONCRETE TILT PANEL; REFER TO STRUCTURAL DRAWINGS FOR PANEL THICKNESS. SEE INTERIOR SCHEDULE FOR FINISHES. JOINTS TO HAVE CONTINUOUS SEALANT AND BACKER RODS ON BOTH SIDES. METAL STUD FRAMING WITH ONE LAYER 5/8" GYPSUM BOARD ON BOTH SIDES

PARTITION TYPE TU1

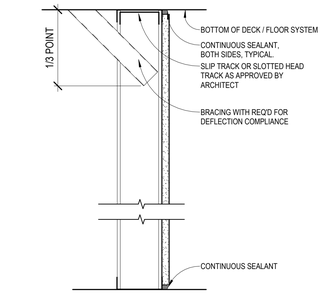
PARTITION SCHEDULE TU1

	Type Mark									
WALL TYPE	Type	Stud #	F.R.	Insul	Wall Depth	Gyp Width	Fire Rating	UL Code	STC #	Comments

PARTITION TYPE M5

PARTITION SCHEDULE M5

	Type Mark									
WALL TYPE	Type	Stud #	F.R.	Insul	Wall Depth	Gyp Width	Fire Rating	UL Code	STC #	Comments
M58.0	M5				7 5/8"		0HR			

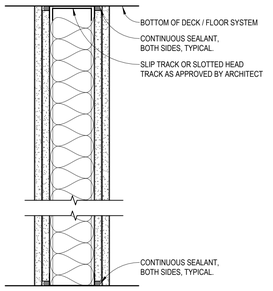


PARTITION TYPE F1: METAL STUDS WITH ONE LAYER OF 5/8" GYP BD.

PARTITION TYPE F1

PARTITION SCHEDULE F1

	Type Mark									
Wall Type	Type	Stud #	F.R.	Insul	Wall Depth	Gyp Width	Fire Rating	UL Code	STC #	Comments
F11.0	F1	1	0		2 1/4"	5/8"	0HR			
F13.0	F1	3	0		4 1/4"	5/8"	0HR			



PARTITION TYPE B2: METAL STUDS WITH TWO LAYERS 5/8" GYP BD EACH SIDE AND FILLED WITH ACOUSTICAL BATT INSULATION FULL HEIGHT (RE: UL DESIGN).

PARTITION TYPE B2

PARTITION SCHEDULE B2

	Type Mark									
Wall Type	Type	Stud #	F.R.	Insul	Wall Depth	Gyp Width	Fire Rating	UL Code	STC #	Comments
B23.0	B2	3	0	Yes	6 1/8"	5/8"	0HR			

CLIENT

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REGISTRATION

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STATE OF FLORIDA JOBY L. BALINT AR0016653 REGISTERED ARCHITECT

JOBY L. BALINT, AIA AR-0016653

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DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL
33404

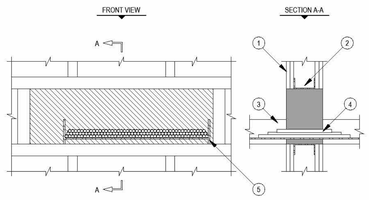
PROJECT NUMBER
1007657.00

SHEET TITLE
PARTITION TYPES

SHEET NUMBER
A0.11

FILE NAME: Autodesk Docs://_1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
DATE STAMP: 10/24/2025 1:31:13 PM

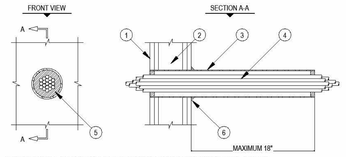
UL/cUL SYSTEM NO. W-L-4034
CABLE TRAY THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY
F-RATING = 1-HR. OR 2-HR.
T-RATING = 0-HR.



1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. OPENING TO BE "FRAMED OUT" WITH LIGHTGAGE STEEL STUDS (MIN. 3-1/2" WIDE).
3. ALUMINUM OPEN LADDER CABLE TRAY (MAXIMUM SIZE : 24" x 4").
4. CABLES TO CONSNIST OF THE FOLLOWING :
   A. MAXIMUM 300 PAIR NO. 24 AWG TELEPHONE CABLE.
   B. MAXIMUM 500 KCMIL SINGLE CONDUCTOR POWER CABLE..
   C. MAXIMUM 3/8" DIAMETER FIBER-OPTIC CABLE.
   D. MAXIMUM 3/C NO. 12 AWG METAL-CLAD CABLE.
5. HILTI CP 620 FIRE FOAM INSTALLED FLUSH WITH BOTH SURFACES OF THE WALL :
   A. MINIMUM 4-3/4" THICKNESS, FOR A 1-HR. FIRE-RATING.
   B. MINIMUM 6" THICKNESS, FOR A 2-HR. FIRE-RATING.

NOTES:
1. MAXIMUM SIZE OF OPENING = 30" x 9".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 5".
3. MAXIMUM AREA OF CABLES SHALL BE 45% OF CROSS-SECTIONAL AREA OF CABLE TRAY.
4. OPTIONAL - NOT SHOWN, HILTI FS 657 FIRE BLOCKS (CENTERED WITHIN WALL ASSEMBLY) MAY BE APPLIED IN A SINGLE LAYER ABOVE CABLES WITHIN CABLE TRAY (2" THICK x 8" WIDE x 5" DEEP).

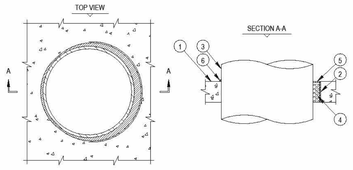
UL/cUL SYSTEM NO. W-L-3065
CABLE BUNDLE THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY
F-RATING = 1-HR. OR 2-HR.
T-RATING = 0-HR.



1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U300 OR U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. (NOT SHOWN). WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. OPTIONAL : MAXIMUM 4" NOMINAL DIAMETER STEEL PIPE SLEEVE (SCHEDULE 5 OR HEAVIER) (SEE NOTE NO. 4 BELOW).
4. CABLE BUNDLE TO CONSIST OF ANY COMBINATION OF THE FOLLOWING :
   A. MAXIMUM 7/C NO. 12 AWG CABLE.
   B. MAXIMUM 25 PAIR NO. 24 AWG TELEPHONE CABLE.
   C. RG-59 COAXIAL CABLE.
   D. MAXIMUM 3/C NO. 8 AWG METAL-CLAD CABLE.
   E. MAXIMUM 3/C (WITH GROUND) NO. 8 AWG COPPER CONDUCTOR CABLE (ROMEX).
   F. MAXIMUM 5/8" DIAMETER FIBER-OPTIC CABLE.
5. MINIMUM 5/8" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT, CP 601S ELASTOMERIC FIRESTOP SEALANT, OR CP 606 FLEXIBLE FIRESTOP SEALANT.
6. SEE NOTE NO. 4 BELOW.

NOTES:
1. MAXIMUM SIZE OF OPENING = 4".
2. ANNULAR SPACE = MINIMUM 1/4", MAXIMUM 3/4"
3. CABLES TO FILL MAXIMUM 45% OF CROSS-SECTIONAL AREA OF OPENING.
4. STEEL SLEEVE MAY BE FLUSH WITH WALL SURFACE OR EXTEND UP TO 10" BEYOND WALL SURFACE. WHEN SLEEVE IS EXTENDED BEYOND ONE OR BOTH SIDES OF WALL, APPLY MINIMUM 1/2" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT, CP 601S ELASTOMERIC FIRESTOP SEALANT, OR CP 606 FLEXIBLE FIRESTOP SEALANT TO WALL/SLEEVE INTERFACE.

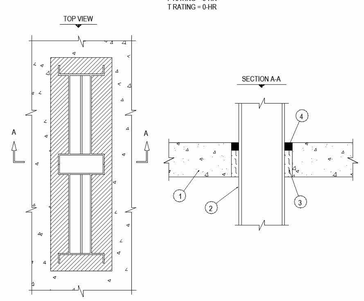
UL/cUL SYSTEM NO. CAJ1226
METAL PIPE THROUGH A SLEEVE IN CONCRETE FLOOR/WALL OR BLOCK WALL
F RATING = 3-HR.
T RATING = 0-HR.
L RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L RATING AT 400° F = 4 CFM/SQ. FT.



1. CONCRETE FLOOR OR WALL ASSEMBLY (3-HR FIRE-RATING):
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MIN. 4-1/2" THICK).
   B. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL.
2. OPTIONAL: MAXIMUM 32" NOMINAL DIAMETER STEEL PIPE SLEEVE (SCHEDULE 40 OR HEAVIER).
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 30" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 30" NOMINAL DIAMETER CAST IRON PIPE.
   C. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE.
   D. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT.
   E. MAXIMUM 4" NOMINAL DIAMETER EMT.
4. MINIMUM 4" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED.
5. MINIMUM 1/4" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT.
6. MINIMUM 1/4" CROWN HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMETER OF OPENING = 32".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1-7/8".
3. MINIMUM 1/4" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT IS REQUIRED ON BOTH SIDES OF A WALL ASSEMBLY.

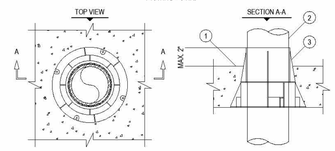
UL/cUL SYSTEM NO. CAJ6017
ELECTRICAL BUSWAY THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL
F RATING = 3-HR.
T RATING = 0-HR.



1. CONCRETE FLOOR OR WALL ASSEMBLY (3-HR FIRE-RATING):
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MIN. 4-1/2" THICK).
   B. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL.
   2. ELECTRICAL BUSWAY (NOMINAL 26" WIDE BY 6" DEEP, OR SMALLER) (1" SHAPED STEEL ENCLOSURE CONTAINING FACTORY MOUNTED ALUMINUM BARS RATED FOR 600V OR 4000A).
2. MINIMUM 3-1/2" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED.
3. MINIMUM 1" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT.

NOTES:
1. MAXIMUM AREA OF OPENING IS 224 SQUARE INCHES WITH A MAXIMUM DIMENSION OF 28 INCHES.
2. MINIMUM 1" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT IS REQUIRED ON BOTH SIDES OF A WALL.

UL/cUL SYSTEM NO. F-A-1017
METAL PIPE THROUGH CONCRETE FLOOR OR CONCRETE OVER METAL DECKING
F-RATING = 3-HR.
T-RATING = 0-HR.



1. CONCRETE FLOOR ASSEMBLY (3-HR. FIRE-RATING) :
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MIN. 4-1/2" THICK).
   B. STEEL FLOOR UNIT/FLOOR ASSEMBLY - NORMAL WEIGHT CONCRETE FLOOR (MIN. 4-1/2" THICK) OVER METAL DECKING.
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
   A. MAXIMUM 8" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 4" NOMINAL DIAMETER CAST IRON PIPE.
   C. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE.
   D. MAXIMUM 8" NOMINAL DIAMETER STEEL CONDUIT.
   E. MAXIMUM 4" NOMINAL DIAMETER EMT.
3. HILTI CP 680 CAST-IN FIRESTOP DEVICE CAST OR GROUTED INTO CONCRETE FLOOR (SEE TABLE BELOW).

NOM. PIPE DIAMETER	PRODUCT DESCRIPTION
1-1/2" TO 2-1/2"	CP680 7/5/2.5"
3" TO 4"	CP680 110/4"
4" TO 6"	CP680 160/6"

NOTES:
1. FOR CONCRETE FLOOR OVER METAL DECKING APPLICATIONS, A CP 680 CAST-IN FIRESTOP DEVICE METAL DECK ADAPTER IS REQUIRED.
2. WHEN PIPE DIAMETER IS SMALLER THAN INDICATED ABOVE, A MIN. 1" THICKNESS HILTI CP 618 FIRESTOP PUTTY STICK SHALL BE APPLIED BETWEEN THE PIPE AND PERIPHERY OF HILTI CP 680 CAST-IN FIRESTOP DEVICE, FLUSH WITH TOP SURFACE OF DEVICE.
3. AS AN ALTERNATE TO HILTI CP 618, MINIMUM 4" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) MAY BE TIGHTLY PACKED INTO HILTI CP 680, FLUSH WITH TOP SURFACE OF DEVICE.

UL/cUL SYSTEM NO. W-L-1054
METAL PIPE THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY
F-RATING = 1-HR. OR 2-HR.
T-RATING = 0-HR.
L-RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L-RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L-RATING AT 400°F = 4 CFM/SQ. FT.

1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U300 OR U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. (NOT SHOWN). WOOD STUDS TO CONSNIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
   A. MAXIMUM 30" DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 30" DIAMETER CAST IRON PIPE.
   C. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE.
   D. MAXIMUM 8" NOMINAL DIAMETER STEEL CONDUIT.
   E. MAXIMUM 4" NOMINAL DIAMETER EMT.
4. HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT :
   A. MINIMUM 5/8", FOR A 1-HR. FIRE-RATING.
   B. MINIMUM 1-1/4" DEPTH, FOR A 2-HR. FIRE-RATING.
5. MINIMUM 1/2" BEAD HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMETER OF OPENING :
   A. 32-1/4" FOR STEEL STUD WALLS.
   B. 14-1/2" FOR WOOD STUD WALLS.
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 2-1/2".

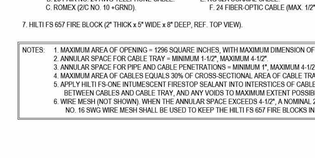
UL/cUL SYSTEM NO. F-A-3007
SINGLE CABLE OR BUNDLED CABLE THROUGH CONCRETE FLOOR OR CONCRETE OVER METAL DECKING
F-RATING = 3-HR.
T-RATING = 0-HR.

1. CONCRETE FLOOR ASSEMBLY (3-HR. FIRE-RATING) :
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MINIMUM 4-1/2" THICK).
   B. STEEL FLOOR UNIT/FLOOR ASSEMBLY - NORMAL WEIGHT CONCRETE FLOOR (MINIMUM 4-1/2" THICK) OVER METAL DECKING.
2. SINGLE CABLE OR BUNDLED CABLE CONSISTING OF ANY OF THE FOLLOWING :
   A. MAXIMUM 300 PAIR NO. 24 AWG TELEPHONE CABLE WITH PVC JACKET.
   B. MAXIMUM 500 KCMIL POWER CABLE WITH PVC JACKET.
   C. MAXIMUM 7/C NO. 12 AWG POWER CABLE WITH PVC JACKET.
   D. MAXIMUM (24 FIBER) 1/2" DIAMETER FIBER-OPTIC CABLE.
   E. MAXIMUM 3/C NO. 12 AWG METAL-CLAD CABLE.
3. HILTI CP 680 CAST-IN FIRESTOP DEVICE, CAST OR GROUTED INTO CONCRETE FLOOR (SEE TABLE BELOW).
4. MINIMUM 1" DEPTH HILTI CP 618 FIRESTOP PUTTY STICK APPLIED AROUND SINGLE CABLE OR CABLE BUNDLE. (SEE NOTE BELOW).

MAX. DIA OF CABLE BUNDLE	PRODUCT DESCRIPTION
2"	CP 680 7/5/2.5"
4-1/2"	CP 680 110/4"
6-1/2"	CP 680 160/6"

NOTE: AS AN ALTERNATE TO HILTI CP 618 FIRESTOP PUTTY STICK, MINIMUM 4" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) MAY BE TIGHTLY PACKED INTO HILTI CP 680, FLUSH WITH TOP SURFACE OF DEVICE.

UL/cUL SYSTEM NO. CAJ3095
SINGLE OR MULTIPLE CABLES THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL
F RATING = 3-HR.
T RATING = 0-HR, 1/2-HR, & 3/4-HR.
(SEE U.L. FIRE RESISTANCE DIRECTORY VOL. 2)



1. CONCRETE FLOOR OR WALL ASSEMBLY (3-HR FIRE-RATING):
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MIN. 2-1/2" THICK).
   B. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MIN. 3" THICK).
   C. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL.
2. OPTIONAL : MAXIMUM 6" NOMINAL DIAMETER STEEL PIPE SLEEVE (SCHEDULE 10 OR HEAVIER).
3. MAXIMUM 4" DIAMETER CABLE BUNDLE TO BE A COMBINATION OF ANY OF THE FOLLOWING:
   A. MAXIMUM 300 PAIR NO. 24 AWG TELEPHONE CABLE WITH PVC JACKET.
   B. MAXIMUM 500 KCMIL POWER CABLE WITH PVC JACKET.
   C. MAXIMUM 7/C NO. 12 AWG POWER CABLE WITH PVC JACKET.
   D. MAXIMUM (24 FIBER) 1/2" DIAMETER FIBER-OPTIC CABLE.
   E. MAXIMUM 3/C NO. 12 AWG METAL-CLAD CABLE.
4. MINIMUM 2" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED.
5. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT.

NOTES:
1. MAXIMUM DIAMETER OF OPENING = 6".
2. CABLES TO FILL MINIMUM 25%, TO MAXIMUM 45% OF CROSS-SECTIONAL AREA OF OPENING.
3. STEEL FLOOR UNIT/FLOOR ASSEMBLY (NOT SHOWN)-THE FLOOR ASSEMBLY MAY ALSO CONSIST OF MINIMUM 2-1/2" CONCRETE OVER (1-1/2" TO 3" DEEP) FLUTED METAL DECK.
4. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT IS REQUIRED ON BOTH SIDES OF A WALL.

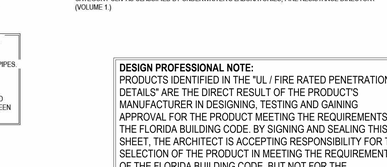
UL/cUL SYSTEM NO. CAJ4035
CABLE TRAY THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL
F RATING = 3-HR.
T RATING = 0-HR.



1. CONCRETE FLOOR OR WALL ASSEMBLY (3-HR FIRE-RATING):
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MIN. 4-1/2" THICK).
   B. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL.
2. MAXIMUM 24"x4" ALUMINUM OR STEEL OPEN LADDER CABLE TRAY. (SEE NOTE NO. 4 BELOW)
3. CABLES TO BE A COMBINATION OF ANY OF THE FOLLOWING:
   A. MAXIMUM 300 PAIR NO. 24 AWG TELEPHONE CABLE.
   B. MAXIMUM 500 KCMIL SINGLE CONDUCTOR POWER CABLE.
   C. MAXIMUM (24 FIBER) 1/2" DIAMETER FIBER-OPTIC CABLE.
   D. MAXIMUM 3/C NO. 12 AWG METAL CLAD CABLE.
4. HILTI FS 657 FIRE BLOCK (2" THICK x 8" WIDE x 5" DEEP, REF. TOP VIEW).

NOTES:
1. MAXIMUM AREA OF OPENING = 270 SQUARE INCHES, WITH A MAXIMUM DIMENSION OF 30 INCHES.
2. ANNULAR SPACE = MINIMUM 1", MAXIMUM 4".
3. APPLY HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT INTO INTERSTICES OF CABLES, BETWEEN CABLES AND CABLE TRAY, AND ANY VOIDS TO TO MAXIMUM EXTENT POSSIBLE.
4. MAXIMUM AREA OF CABLES SHALL BE 40% OF CROSS-SECTIONAL AREA OF CABLE TRAY.

UL/cUL SYSTEM NO. F-A-5015
INSULATED METAL PIPE THROUGH CONCRETE FLOOR OR CONCRETE OVER METAL DECKING
F-RATING = 2-HR.
T-RATING = 1/2-HR.

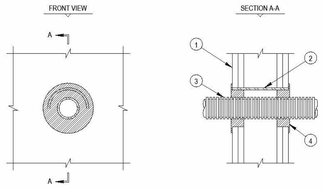


1. CONCRETE FLOOR ASSEMBLY (2-HR. FIRE-RATING):
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MIN. 2-1/2" THICK).
   B. STEEL FLOOR UNIT/FLOOR ASSEMBLY - NORMAL WEIGHT CONCRETE FLOOR (MIN. 2-1/2" THICK) OVER METAL DECKING.
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING (SEE TABLE BELOW):
   A. MAXIMUM 4" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE.
3. NOMINAL 3/4" THICK AB/PVC FLEXIBLE FOAM PIPE INSULATION.
4. HILTI CP 680 CAST-IN FIRESTOP DEVICE CAST OR GROUTED INTO CONCRETE FLOOR (SEE TABLE BELOW).

NOM. PIPE DIAMETER	AB/PVC THICKNESS	PRODUCT DESCRIPTION
1"	3/4"	CP680 7/5/2.5"
2"	3/4"	CP680 110/4"
4"	3/4"	CP680 160/6"

NOTE: FOR CONCRETE FLOOR OVER METAL DECKING APPLICATIONS, A CP 680 METAL DECK ADAPTER IS REQUIRED.

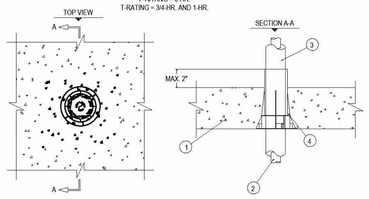
U.L. SYSTEM NO. WL2075
ENT THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY
F RATING = 1-HR. AND 2-HR.
T RATING = 0-HR. AND 2-HR. (FOR 1-HR. AND 2-HR. WALLS, RESPECTIVELY)
L RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L RATING AT 400°F = 4 CFM/SQ. FT.



1. GYPSUM WALL ASSEMBLY (U.L. CLASSIFIED U300 OR U400 SERIES) (1-HR OR 2-HR FIRE-RATING) (2-HR SHOWN).
2. OPTIONAL: MAXIMUM 4" NOMINAL DIAMETER STEEL PIPE SLEEVE (SCHEDULE 40 OR THINNER).
3. MAXIMUM 2" NOMINAL DIAMETER ENT.
4. HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT:
   A. MINIMUM 5/8" DEPTH, FOR A 1-HR FIRE-RATING.
   B. MINIMUM 1-1/4" DEPTH, FOR A 2-HR FIRE-RATING.

NOTES:
1. MAXIMUM DIAMETER OF OPENING = 4"
2. ANNULAR SPACE = 3/4".

UL/cUL SYSTEM NO. F-A-5016
INSULATED METAL PIPE THROUGH CONCRETE FLOOR OR CONCRETE OVER METAL DECKING
F-RATING = 3-HR.
T-RATING = 3/4-HR. AND 1-HR.

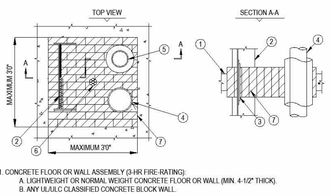


1. CONCRETE FLOOR ASSEMBLY (3-HR. FIRE-RATING) :
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MIN. 4-1/2" THICK).
   B. STEEL FLOOR UNIT/FLOOR ASSEMBLY - NORMAL WEIGHT CONCRETE FLOOR (MIN. 4-1/2" THICK) OVER METAL DECKING.
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING (SEE TABLE BELOW) :
   A. MAXIMUM 4" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE.
3. NOMINAL 3/4" THICK AB/PVC FLEXIBLE FOAM PIPE INSULATION.
4. HILTI CP 680 CAST-IN FIRESTOP DEVICE CAST OR GROUTED INTO CONCRETE FLOOR (SEE TABLE BELOW).

NOM. PIPE DIAMETER	AB/PVC THICKNESS	PRODUCT DESCRIPTION
2"	3/4"	CP680 110/4"
4"	3/4"	CP680 160/6"

NOTE: FOR CONCRETE FLOOR OVER METAL DECKING APPLICATIONS, A CP 680 METAL DECK ADAPTER IS REQUIRED.

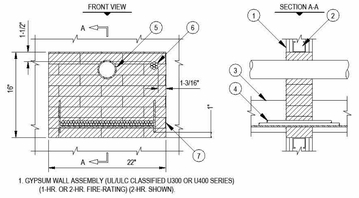
UL/cUL SYSTEM NO. CAJ8056
MULTIPLE PENETRATING ITEMS THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL
F-RATING = 3-HR. L-RATING AT AMBIENT = 5 CFM/SQ. FT.
T-RATING = 0-HR. L-RATING AT 400°F = 2 CFM/SQ. FT.



1. CONCRETE FLOOR OR WALL ASSEMBLY (3-HR FIRE-RATING):
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MIN. 4-1/2" THICK).
   B. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL.
2. MINIMUM 18" x 6" ALUMINUM OR STEEL OPEN LADDER CABLE TRAY.
3. ANY COMBINATION OF THE FOLLOWING CABLES MAY BE USED WITHIN THE CABLE TRAY (SEE NOTE NO. 4 BELOW):
   A. 7/C NO. 12 AWG COPPER CONDUCTOR CABLE.
   B. MAX. 500 KCMIL SINGLE CONDUCTOR CABLE.
   C. MAX. 300 PAIR NO. 24 AWG TELEPHONE CABLE.
   D. 24 FIBER-OPTIC CABLE (MAX. 1/2" DIAMETER).
4. PENETRATING ITEMS TO BE ANY OF THE FOLLOWING: MAXIMUM 6" NOMINAL DIAMETER STEEL PIPE OR STEEL CONDUIT; MAXIMUM 6" NOMINAL DIAMETER CAST IRON PIPE; OR MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE OR EMT.
5. MAXIMUM 1-1/2" GLASS FIBER INSULATION.
6. MAXIMUM 2" CABLE BUNDLE TO BE A COMBINATION OF ANY OF THE FOLLOWING:
   A. 7/C NO. 12 AWG CABLE.
   B. 25 PAIR NO. 24 AWG TELEPHONE CABLE.
   C. ROMEX (2/C NO. 10 +GRND).
   D. 3/C NO. 8 ALUMINUM CLAD CABLE.
   E. RG 62A COAXIAL CABLE.
   F. 24 FIBER-OPTIC CABLE (MAX. 1/2" DIA.).
7. HILTI FS 657 FIRE BLOCK (2" THICK x 5" WIDE x 8" DEEP, REF. TOP VIEW).

NOTES:
1. MAXIMUM AREA OF OPENING = 1296 SQUARE INCHES, WITH MAXIMUM DIMENSION OF 36 INCHES
2. ANNULAR SPACE FOR CABLE TRAY = MINIMUM 1-1/2", MAXIMUM 4-1/2".
3. ANNULAR SPACE FOR PIPE AND CABLE PENETRATIONS = MINIMUM 1", MAXIMUM 4-1/2".
4. MAXIMUM AREA OF CABLES EQUALS 30% OF CROSS-SECTIONAL AREA OF CABLE TRAY.
5. APPLY HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT INTO INTERSTICES OF CABLES, BETWEEN CABLES AND CABLE TRAY, AND ANY VOIDS TO MAXIMUM EXTENT POSSIBLE.
6. WIRE MESH (NOT SHOWN). WHEN THE ANNULAR SPACE EXCEEDS 4-1/2", A NOMINAL 2 IN. SQ., NO. 16 SWG WIRE MESH SHALL BE USED TO KEEP THE HILTI FS 657 FIRE BLOCKS IN PLACE.

UL/cUL SYSTEM NO. W-L-8013
MULTIPLE PENETRATIONS THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY
F-RATING = 1-HR. OR 2-HR. L-RATING AT AMBIENT = 5 CFM/SQ. FT.
T-RATING = 0-HR. L-RATING AT 400°F = 2 CFM/SQ. FT.



1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U300 OR U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. (NOT SHOWN). WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. OPEN LADDER CABLE TRAY (MAXIMUM 18" x 6", STEEL OR ALUMINUM).
4. ANY OF THE FOLLOWING CABLES MAY BE USED WITH MAXIMUM 30% FILL OF CABLE TRAY :
   A. MAXIMUM 350 KCMIL SINGLE CONDUCTOR POWER CABLE.
   B. MAXIMUM 7/C NO. 12 AWG COPPER CONDUCTOR CABLE.
   C. MAXIMUM 100 PAIR NO. 24 AWG TELEPHONE CABLE.
5. MAX. 3" NOMINAL DIAMETER PVC PLASTIC PIPE (SCHEDULE 40) (CLOSED OR VENTED PIPING SYSTEM) (SEE NOTE NO. 1 BELOW).
6. MAXIMUM 1-1/2" DIAMETER CABLE BUNDLE TO CONSIST OF ANY OF THE FOLLOWING :
   A. FIBER-OPTIC CABLE (24 FIBER).
   B. RG 59 COAXIAL CABLE.
   C. MAX. 25 PAIR NO. 24 AWG TELEPHONE CABLE.
   D. MAX. 7/C NO. 12 AWG COPPER CONDUCTOR.
7. HILTI FS 657 FIRE BLOCKS (2" THICK x 8" WIDE x 5" DEEP, REFERENCE : FRONT VIEW).

NOTES:
1. (NOT SHOWN). PENETRATING ITEMS MAY ALSO INCLUDE A MAX. 6" NOM. DIA. STEEL PIPE, MAX. 6" NOM. DIA. STEEL CONDUIT, MAX. 4" NOM. DIA. COPPER PIPE, OR MAX. 4" NOM. DIA. EMT.
2. (NOT SHOWN): MAX. 1-1/2" CLASS-FIBER INSULATION MAY BE USED ON ANY OR ALL METALLIC PIPES.
3. ANNULAR SPACE = MINIMUM 1", MAXIMUM 5-1/4".
4. APPLY HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT IN ANY VOID THAT MAY EXIST (AROUND PENETRANTS, INTO INTERSTICES OF CABLES, BETWEEN CABLES AND CABLE TRAY, OR BETWEEN FIRE BLOCKS) TO MAXIMUM EXTENT POSSIBLE.

GENERAL UL ASSEMBLY NOTES:

1. REFER TO THE SPECIFICATIONS AND CODE ANALYSIS FOR QUALITY CONTROL REQUIREMENTS, REFER TO THE QUALITY CONTROL PORTION OF THE SPECIFICATION.
2. DETAILS SHOWN ARE TYPICAL DETAILS. IF FIELD CONDITIONS DO NOT MATCH REQUIREMENTS OF TYPICAL DETAILS SHOWN, APPROVED ALTERNATE DETAILS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL. FIELD CONDITIONS AND DIMENSIONS NEED TO BE VERIFIED FOR COMPLIANCE WITH THE CURRENT APPROVED UL ASSEMBLIES.

   DETAILS SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING:
   * MINIMUM AND MAXIMUM WIDTH OF JOINTS
   * TYPE AND THICKNESS OF FIRE-RATED CONSTRUCTION.
   * THE MINIMUM ASSEMBLY RATING OF THE FIRESTOP
   * ASSEMBLY SHALL MEET OR EXCEED THE HIGHEST RATING OF THE ADJACENT CONSTRUCTION.

3. IF ALTERNATE DETAILS MATCHING THE FIELD CONDITIONS ARE NOT AVAILABLE, MANUFACTURER'S ENGINEERING JUDGMENT DRAWINGS ARE ACCEPTABLE AND TO BE APPROVED BY THE AHJ. DRAWINGS SHALL FOLLOW THE INTERNATIONAL FIRESTOP COUNCIL (IFC) GUIDELINES FOR EVALUATING FIRESTOP SYSTEMS ENGINEERING JUDGMENTS.
4. REFERENCES:
   * CURRENT FLORIDA BUILDING CODE - BUILDING CH. 7
   * 2016 UNDERWRITER'S LABORATORIES FIRE RESISTANCE DIRECTORY, VOLUMES 1, 2A, 2B &
   * CURRENT FLORIDA FIRE PREVENTION CODE (NFPA 1 AND NFPA 101 AS MODIFIED BY FLORIDA)
   * NFPA 70 - NATIONAL ELECTRIC CODE
   * ALL GOVERNING LOCAL AND REGIONAL BUILDING CODES
5. FIRESTOP SYSTEM INSTALLATION MUST MEET REQUIREMENTS OF ASTM E-814 (UL 1479) TESTED ASSEMBLIES THAT PROVIDE A FIRE RATING EQUAL TO THAT OF CONSTRUCTION BEING PENETRATED.
6. ALL RATED THROUGH-PENETRATION ASSEMBLIES SHALL BE PROMINENTLY LABELED WITH THE FOLLOWING INFORMATION PER CHAPTER 7 OF THE FLORIDA BUILDING CODE (FBC):
   * ATTENTION: FIRE RATED ASSEMBLY
   * UL SYSTEM #
   * PRODUCT(S) USED
   * HOURLY RATING (F-RATING)
   * INSTALLATION DATE
7. FOR OUTLET BOXES REQUIRING PROTECTION, USE ONLY WALL OPENING PROTECTIVE MATERIALS, CATEGORY CLIV AS CLASSIFIED BY UNDERWRITER'S LABORATORIES, FIRE RESISTANCE DIRECTORY (VOLUME 1.)

DESIGN PROFESSIONAL NOTE:
PRODUCTS IDENTIFIED IN THE "UL / FIRE RATED PENETRATION DETAILS" ARE THE DIRECT RESULT OF THE PRODUCT'S MANUFACTURER IN DESIGNING, TESTING AND GAINING APPROVAL FOR THE PRODUCT MEETING THE REQUIREMENTS OF THE FLORIDA BUILDING CODE. BY SIGNING AND SEALING THIS SHEET, THE ARCHITECT IS ACCEPTING RESPONSIBILITY FOR THE SELECTION OF THE PRODUCT IN MEETING THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, BUT NOT FOR THE RESPONSIBILITY OF THE PRODUCT ITSELF.

CLIENT

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1678 Kingston Road
Longwood, FL
32750

REGISTRATION

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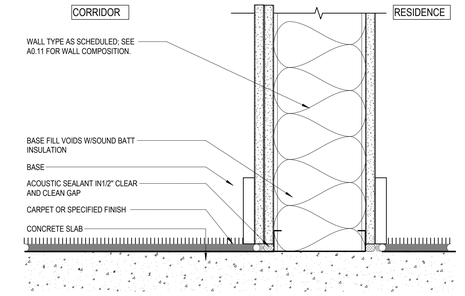
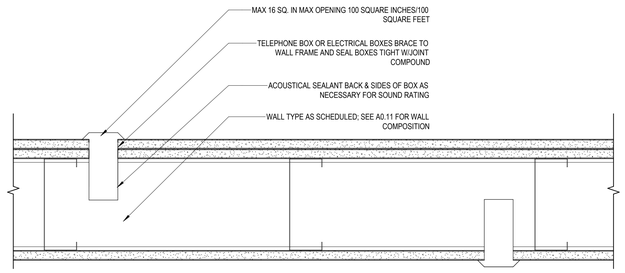
STATE OF FLORIDA
JOEY L. BALINT
REGISTERED ARCHITECT
AR0016653

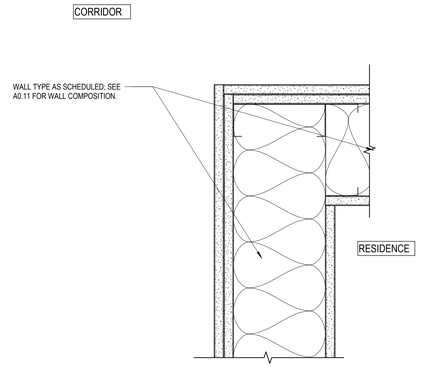
JOEY L. BALINT, AI



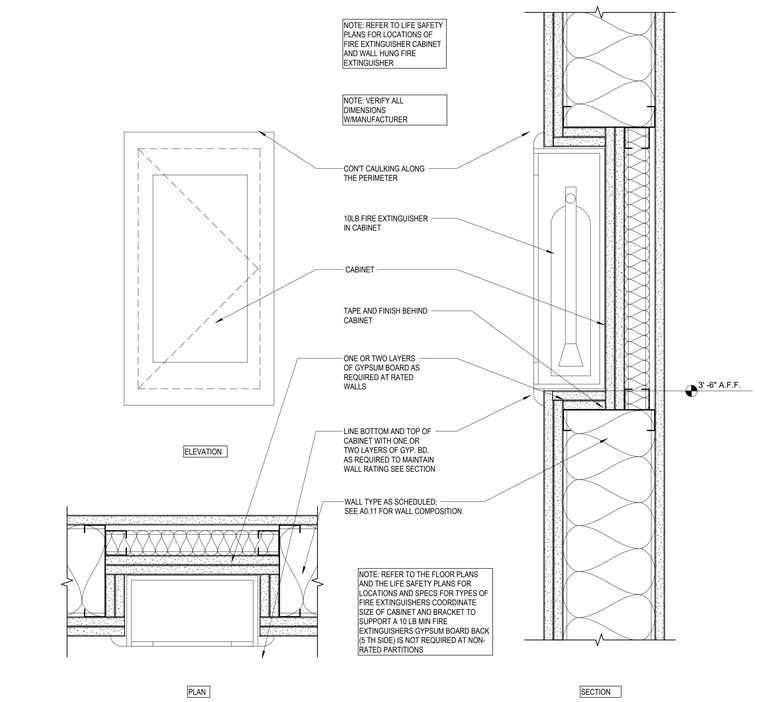
BASE DETAIL 3" = 1'-0" **4**



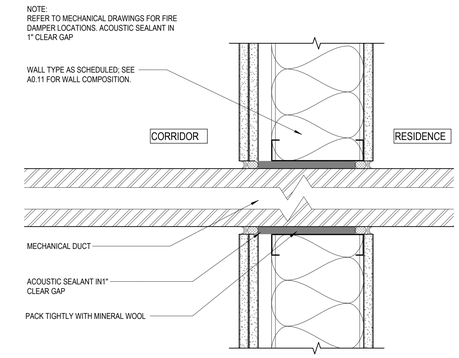
ELECTRICAL J-BOX SPACING (ACOUSTICAL REQUIREMENT) 3" = 1'-0" **7**



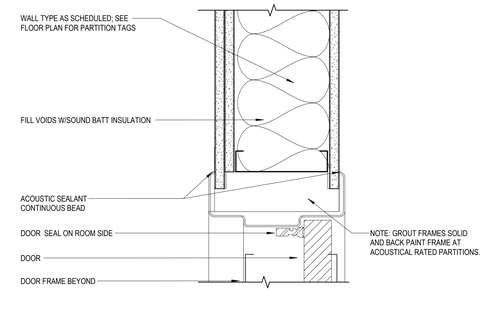
CORNER DETAIL 3" = 1'-0" **3**



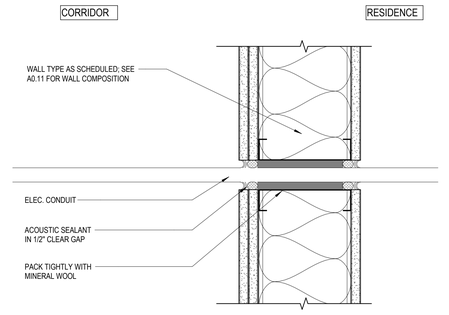
DETAIL AT RECESSED FIRE CABINET 3" = 1'-0" **8**



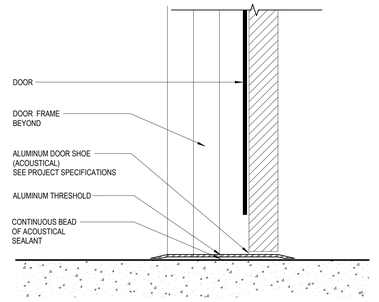
NON RATED MECHANICAL PENETRATION 3" = 1'-0" **6**



DOOR HEAD DETAIL 3" = 1'-0" **2**



NON RATED ELECTRICAL PENETRATION 3" = 1'-0" **5**



THRESHOLD DETAIL 3" = 1'-0" **1**

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DATE STAMP: 10/24/2025 1:31:21 PM

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STATE OF FLORIDA JOBY L. BALINT AR0016653 REGISTERED ARCHITECT

JOBY L. BALINT, AIA AR-0016653

NOTE: ELECTRONIC COPIES SHALL HAVE BOTH SEAL AND VERIFIED DIGITAL SIGNATURE WITH DATE TO BE CONSIDERED SIGNED AND SEALED

DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
TYPICAL PARTITION DETAILS

SHEET NUMBER
A0.16

GENERAL INTERIOR FINISH NOTES:

- COVER ALL EXPOSED EXTERIOR MILLWORK SURFACES WITH WOOD VENEER
- ALL INTERIOR FACES OF CABINETS AND ADJUSTABLE SHELVING WITHIN CABINETS TO BE WHITE MELAMINE UNLESS NOTED OTHERWISE.
- ALL MILLWORK SHELVES SHALL BE ADJUSTABLE. PROVIDE AN ADJUSTABLE SHELF IN ALL UPPER MILLWORK, UNLESS OTHERWISE NOTED.
- FILL ALL JOINTS BETWEEN MILLWORK AND ALL HORIZONTAL AND VERTICAL SURFACES WITH CAULK TO MATCH ADJACENT SURFACES.
- FIELD VERIFY ALL OVERALL DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION OF MILLWORK.
- VERIFY EQUIPMENT CLEARANCES PRIOR TO FABRICATION AND INSTALLATION OF MILLWORK.
- CONTRACTOR TO REVIEW ALL PLANS (ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL) WITH SUBCONTRACTORS AS IT RELATES TO THE INSTALLATION AND FIELD COORDINATION OF PHONE, ELECTRICAL OUTLETS, DATA, CLEANOUTS, THERMOSTAT, FLOOR DRAINS, ACCESS TO VALVES, EQUIPMENT, ETC. THAT MAY OCCUPY THE SAME SPACE AS THE MILLWORK & ADJUST AS NECESSARY. REVIEW CHANGES WITH ARCHITECT.
- USE LOW VOC MATERIALS WHERE POSSIBLE.
- ALL EXPOSED PIPES UNDER SINKS SHALL BE INSULATED AND CONFIGURED TO PROTECT AGAINST CONTACT.
- INSTALL ALL INTERIOR FINISHES PER MANUFACTURER'S INSTRUCTIONS.
- ALL MILLWORK SUBSTRATE AND SHELVING TO BE MARINE GRADE PLYWOOD IN WET AREAS, UNLESS NOTED OTHERWISE.
- WHERE TBD IS NOTED, ARCHITECT TO CHOOSE FROM MANUFACTURER'S FULL RANGE OF COLOR AND FINISHES.
- PROVIDE HEAVY DUTY ADA COMPLIANT TRANSITION STRIP WHERE FLOORING CHANGES.
- ALL WALLS TO RECEIVE (1) COAT PRIMER AND (2) COATS PAINT, SATIN FINISH U.N.O.
- REFER TO ELEVATION SHEETS FOR ADDITIONAL FINISH INFORMATION.
- ALL FINISHES TO MEET OR EXCEED CLASS "A" FLAME RATING U.N.O.
- ALL GYPSUM BOARD CEILINGS TO RECEIVE FLAT FINISH PT01 U.N.O.
- REFER TO FINISH SCHEDULE ON A0.20 FOR MORE INFORMATION.
- ALL CHANGES IN FLOOR MATERIAL BETWEEN ROOMS SHALL OCCUR AT THE CENTER LINE OF THE DOOR UNLESS NOTED OTHERWISE.
- ALL PAINT SHALL BE APPLIED IN ACCORDANCE TO THE MANUFACTURER'S SPECIFICATIONS FOR THE PARTICULAR SURFACE.
- DO NOT SCALE DRAWINGS, CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATIONS OR MISSING DIMENSIONS.
- CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFORMATION IN WRITING BEFORE EXECUTION OF WORK.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
- REFER TO WALL TYPE SCHEDULE ON SHEETS A0.10 FOR ADDITIONAL INFORMATION.
- ALL PAINT SHALL BE APPLIED IN ACCORDANCE TO THE MANUFACTURER'S SPECIFICATIONS FOR THE PARTICULAR SURFACE. ALL WALLS TO RECEIVE (1) COAT PRIMER AND (2) COATS PAINT, EGGSHELL FINISH AT WALLS, FLAT FINISH AT CEILINGS AND SEMI-GLOSS FINISH AT HOLLOW METALS.
- ALL FLOORING TO BE WALL TO WALL UNDER CABINETS AND MILLWORK TYP.
- REFER TO SHEET A0.20 FOR ALL FLOOR TRANSITIONS.
- CONTRACTOR SHALL FIELD COORDINATE LOCATION, SIZE, TYPE OF BLOCKING FOR INSTALLATION OF SIGNAGE, PLUMBING FIXTURES, MILLWORK, ETC.. ALL CONCEALED WOOD BE FIRE RETARDANT TREATED (F.R.T).
- S.O.G. TO BE CLEANED AND PREP PER MANUFACTURER'S INSTRUCTION FOR FLOORING FINISH, INCLUDING MOISTURE TESTING. PROVIDE CRACK MITIGATION AND MOISTURE MITIGATION PER FLOORING MANUFACTURER REQUIREMENTS.
- COMBUSTIBLE MATERIALS SHALL COMPLY WITH FBC - BUILDING SECTION 805
- REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES AND SPECIFICATIONS.

Tag	Spec'd by	Type	Manufacturer	Product	Color	Texture/Finish	Size	Misc.	Contact/Rep	Location	Comment
Div. 03	**CONCRETE**										
SC01		Concrete (Sealed)	AmeriPolish	SR2 Concrete Sealer Solvent Based	Clear				MARIEL BASURCO, 954-649-4108		
Div. 05	**METALS**										
SST01		Stainless Steel				No. 4 Brushed Finish					
06 4100	**ARCHITECTURAL WOOD CASEWORK**										
PL01		High-Pressure Laminate	LAMIN ART		3122-E NATURAL PEARWOOD	FINE GRAIN			NICHOLE SANTANA 786-714-4588		
PL02		High-Pressure Laminate	LAMIN ART		4005 -P MIDNIGHT	PRISM			NICHOLE SANTANA 786-714-4588		
PL03		High-Pressure Laminate	WILSONART		7946 ASIAN NIGHT	18 LINEARITY			AT SLOAN LAVATORY: MOONA WHITICE 954-899-8365		Interior woodwork. Sustainably sourced (i.e. FSC Certified Wood) or regionally manufactured from abundant species.
06 4200	**WOOD PANELING**										
WD01		Acoustic Plank Wood Ceilings and Walls	CERTAINTEED	Reconstituted Quartered Veneers, SOLO GROOVED - G3, 3320G3	QUARTERED BLONDE RQB0		2MM GROOVE, 32MM O.C. (SOLO 32), 7-9/16" x 96" x 11/16"	.85 NRC WITH 1" BLACK ACOUSTIC BATT INSULATION ABOVE, OWENS CORNING...	Maggie Coppola, 352-238-8709		PROVIDE 4" HORIZONTAL ACOUSTIC PLANK PERIMETER TRIM WITH MATCHING VENEERED FINISH
WD		Architectural Doors	VT Industries	LAMINATE CLAD	TO MATCH PL01	FINE GRAIN			DOUG BACHAND 919-452-3716		
09 3000	**TILING**										
T01		Porcelain Tile	Daltile	Rigid Clay	Rock RC12	Rectangle Plateau-Matte	12 X 24 X10.5 mm	PROVIDE 3X24 BULLNOSE TRIM, Grout Color: Laticrete TBD			10% of total project not to exceed 4 boxes shall be provided as attic stock
T02		Porcelain PAVER	Daltile	ASSEMBLY	PROXY	Matte	30X30X3/8	Grout Color: Laticrete TBD	Ann Nathanson, 954-543-0010		10% of total project not to exceed 4 boxes shall be provided as attic stock
T03		Ceramic Tile	Garden State Tile	Dimensions	Ink Divide	Glossy					
T04		Ceramic Tile	Daltile	Rigid Clay	Rock RC12	Rectangle Ridge - Matte	12 x 24 x 10.5 mm				
T05		Porcelain Tile	Garden State Tile	Tribeca	Dust Blue	Matte					
WB02		metal Cove Base	Schluter	DILEX AHKA	ANODIZED NICKEL	SATIN			ROSANNA RUIZ 786-858-0010		
09 5100	**ACOUSTICAL CEILINGS**										
GWB		Painted Gypsum Board			PAINTED TO MATCH PT01						
ACP01		Acoustic Ceiling	ROCKFON	ALASKA SQUARE LAY IN	White	non-directional	2'x2', 3/4"	4000 TEMPRA SQ 9/16 SUSPENSION SYSTEM	KAYLA SELLERS 770-694-9710		NRC .90
ACP02		Acoustic Ceiling	ROCKFON	ALASKA SQUARE LAY IN	White	non-directional	2'x4', 3/4"	200 SQ 15/16" SUSPENSION SYSTEM	KAYLA SELLERS 770-694-9710		
ACP03		ACOUSTIC CEILING (W)	ROCKFON	PACIFIC SQUARE LAY IN	White	non-directional	2'x2', 1/2"	4000 TEMPRA SQ 9/16 SUSPENSION SYSTEM	KAYLA SELLERS 770-694-9712		NRC .60
ACP04		Acoustic Ceiling	ROCKFON	KORAL SQUARE LAY IN	White	non-directional	2'x2', 5/8"	4000 TEMPRA SQ 9/16 SUSPENSION SYSTEM	KAYLA SELLERS 770-694-9710		NRC .85
AC02		Acoustic BAFFLE	LUMENWERX	SQUERO PENDANT ACOUSTIX BLANK	GREIGE, CANOPY ALUM		8" H X VARIES - COORDINATE WITH ASSOCIATED PENDANT LIGHT FIXTURE	AIRCRAFT CABLE SUSPENSION	DARYL HAUGHN, 561-504-0772	SEE REFLECTED CEILING PLAN FOR LOCATIONS (A3 Series)	
09 6500	**RESILIENT FLOORING**										
AVCT		Anti-Static Vinyl Composite Tile								2nd Floor I.T. Data Room	
LVT01		Luxury Vinyl Tile	MILLIKEN	MESA	TIERRA, VOLCANO TIE67	NON-PVC	7X48	PROVIDE COORDINATING TRANSITION STRIPS FROM ROPPE, 193 BLACK BROWN	ALICE BETHEA, alice.bethea@milliken.com		ASHLAR INSTALL PATTERN
R01		RUBBER ROLL	ECO SURFACES	ECONIGHTS	Big Bang Blue 629A		8MM X 48" X 25 LF ROLL				
R02		RUBBER RISER/TREAD	ROPPE	#95 hammered design with riser, includes adjustable nosing	193 Black Brown				JUAN PEREZ 561-371-1218		
RB01		Resilient Wall Base	Roppe	Pinnacle Rubber Base, Standard Toe	193 Black Brown		6" H	Preformed inside/outside corners	JUAN PEREZ 561-371-1218		
09 6623	**RESINOUS MATRIX TERRAZZO FLOORING**										
TZ01		Terrazzo Flooring	Sherwin Williams	Decorative Troweled Mortar Flooring	SW20-1050TZ		5/8" Thick	PROVIDE EXPANSION JOINT 25' OC MINIMUM	MARIEL BASURCO, 954-649-4108		
TZ02		Terrazzo Flooring	Sherwin Williams	Decorative Troweled Mortar Flooring	SW40-1008TZ		5/8" Thick	PROVIDE EXPANSION JOINT 25' OC MINIMUM	MARIEL BASURCO, 954-649-4108		
TZB01		Terrazzo Base, Integral Cove	Sherwin Williams	Decorative Troweled Mortar Flooring	SW20-1050TZ		6" H	PROVIDE EXPANSION JOINT 25' OC MINIMUM	MARIEL BASURCO, 954-649-4108		Integral base typical at all terrazzo flooring locations
TZB02		Terrazzo Base, Integral Cove	Sherwin Williams	Decorative Troweled Mortar Flooring	SW40-1008TZ		6" H	PROVIDE EXPANSION JOINT 25' OC MINIMUM	MARIEL BASURCO, 954-649-4108		Integral base typical at all terrazzo flooring locations
09 6723	**RESINOUS FLOORING**										
EP01		EPOXY FLOOR	Sherwin Williams	Resuflor™ DSS	MIDNIGHT SKY			PROVIDE 6" INTEGRAL BASE	MARIEL BASURCO, 954-649-4108		
EP02		**High Performance...**	Sherwin Williams	Resuflor™	Sandy Beige (78)			PROVIDE 6" INTEGRAL BASE	MARIEL BASURCO, 954-649-4108		
EP03		QUARTZ FLOORING	Sherwin Williams	Deco Quartz	SEASCAPE			PROVIDE 6" INTEGRAL BASE	MARIEL BASURCO, 954-649-4108		
09 6813	**TILE CARPETING**										
CPT01		Carpet Tile	MILLIKEN	OBEX ENTRANCE FLOORING	CUT/FIZZ, FZC174-133 TAUPE		50cm x 50 cm	Nondirectional Layout, edge guard:	ALICE BETHEA, alice.bethea@milliken.com		10% not to exceed 10 yards of attic stock to be provided
CPT02		Carpet Tile	MILLIKEN	FREE SPACE	SHARE, SAE258-107 NAVY		25CM X 1M	ASHLAR LAYOUT, edge guard:	ALICE BETHEA, alice.bethea@milliken.com		10% not to exceed 10 yards of attic stock to be provided
CPT03		Carpet Tile	MILLIKEN	TRACING LANDSCAPES - AMERICAS	GEOGRAPHY LESSON, GLN254 WOOLLY HAT		50cm x 50 cm	Nondirectional Layout, edge guard:	ALICE BETHEA, alice.bethea@milliken.com		10% not to exceed 10 yards of attic stock to be provided
CPT04		Carpet Tile	MILLIKEN	ECHO FIELD	RESONATE, RSN120-144 TAN		25CM X 1M	ASHLAR LAYOUT, edge guard:	ALICE BETHEA, alice.bethea@milliken.com		10% not to exceed 10 yards of attic stock to be provided
CPT05		Carpet Tile	MILLIKEN	REVELATION	PATHWAY TRIMLINE, PWY105 CREST		50 CM X 1M	ASHLAR LAYOUT, edge guard:	ALICE BETHEA, alice.bethea@milliken.com		10% not to exceed 10 yards of attic stock to be provided
09 7200	**WALLCOVERING**										
EG01		Digitally printed PVC-free Contract Wallcovering	NATIONAL SOLUTIONS	HISTORIC PHOTOGRAPHY					HALEY ROLL 954-871-3750		
EG02		Digitally printed PVC-free Contract Wallcovering	NATIONAL SOLUTIONS	RECOGNITION WALL					HALEY ROLL 954-871-3750		
EG03		Digitally printed PVC-free Contract Wallcovering	NATIONAL SOLUTIONS	CUSTOM POLICE CREST					HALEY ROLL 954-871-3750		
EG04		Digitally printed PVC-free Contract Wallcovering	LEVEL	MODERN GEO	DELFT				HALEY ROLL 954-871-3750		
EG05		DIGITALLY PRINTED WINDOW FILM	NATIONAL SOLUTIONS	CUSTOM WAYFINDING					HALEY ROLL 954-871-3750		
EG06		Digitally printed PVC-free Contract Wallcovering	LEVEL	TRANSITION	DENIM				HALEY ROLL 954-871-3750		
09 8414	**ACOUSTIC STRETCHED-FABRIC WALL AND CEILING SYSTEMS**										
F01		Acoustic Wall Panel	MAHARAM	METHOD,	466579–025 Sparrow				WILL PARDO 561-339-5799	AT OPERABLE WALL PANELS	
09 8430	**SOUND ABSORBING WALL AND CEILINGS UNITS**										
AWP01	NOT USED	Acoustic Wall Panel	3FORM	300.43 HUSH BLOCKS, STENCIL PATTERN	SOLA FELT: DUSK, MUSTARD, IRO...		VARIES, 2" AND 4"	NRC .80 AND 1.05	JULIANA SHARKEY 954-579-6545		
AWP02		Acoustic Wall Panel	3FORM	300.42 Seeyond Wall Feature	SOLA FELT: DUSK			NRC 1.10	JULIANA SHARKEY 954-579-6545		
09 9123	**INTERIOR PAINTING**										
PT01		PAINT	Sherwin Williams	WALLS AND CEILINGS; SEE SPECIFICATION BOOK	SW 7008 ALABASTER	SEE SPECIFICATION BOOK			MARIEL BASURCO, 954-649-4108		
PT02		PAINT	Sherwin Williams	WALLS AND CEILINGS; SEE SPECIFICATION BOOK	SW 9178 IN THE NAVY	SEE SPECIFICATION BOOK			MARIEL BASURCO, 954-649-4108		
PT04		PAINT	Sherwin Williams	EXPOSED STRUCTURE AND HM FRAMES; SEE SPECIFICATION BOOK	SW 7069 IRON ORE	SEE SPECIFICATION BOOK			MARIEL BASURCO, 954-649-4108		
10 2600	**WALL AND DOOR PROTECTION**										
CG		Corner Guards	Inpro Corporation	150F Flush Mount Corner Guard	TBD		90 deg, 3" wing, 9' height	Rigid Vinyl	LAUREN DUNN 727-916-0369	provide at all outside corners of corridor walls	PROVIDE AT ALL OUTSIDE CORNERS OF CORRIDORS
FRP		Fiberglass Reinforced Panels	Inpro Corporation	Palladium Rigid Sheet	TBD		4'x8', 1 mm	Rigid Vinyl	LAUREN DUNN 727-916-0369		Provide all required accessories - top cap/trim, divider bars, inside/outside corners, etc.
WP02		WALL PROTECTION	Inpro Corporation	Stainless Steel Sheet Wall Cladding		#4 BRUSHED	4X8, 20 GA	PROVIDE CORRESPONDING TRIM	LAUREN DUNN 727-916-0369		
MR01		GLASSLESS MIRROR...	Gtech Fitness				4'-6' panels	PROVIDE BLOCKING AS REQ'D		GYMNASIUM	
12 2400	**ROLLER WINDOW SHADES**										
WS01		Roller Window Shade (fabric)	Mecho Shades	UrbanShade MANUAL Shade System				EcoVeil 1350, 5 % open, Color Beige	Erica Orofino, Erica.Orofino@springswindowfashions.com		Provide ShadeLoc Side Channels, UrbanShade Fascia
12 3600	**COUNTERTOPS**										
SS01		Solid Surface Material	WILSONART	SOLID SURFACE	9233SS BEACHFRONT		1/2" D	Square Eased Edge	MYTRICE WINCHESTER 754-816-0299		
SS02		Solid Surface Material	CORIAN	SOLID SURFACE	LINEN		1/2" D	Square Eased Edge	LILANA BOTELLO	AT SLOAN LAVATORY: MOONA WHITICE 954-899-8365	
SS03		TRESPA TOPLAB	FORMICA	SUFACE	T.B.D				CHRISTY MILLSAP		
11 6623	**GYMNASIUM WALL PADDING**										
WP01		WALL PADDING	MATSURU	ROLL OUT WALL MAT	BLACK		2" X 6' X 30'	CUSTOM GRAPHICS TBD			

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JOBY L. BALINT
REGISTERED ARCHITECT
AR0016653

JOBY L. BALINT, AIA AR-0016653

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DRAWING HISTORY

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PROJECT STATUS
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10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL
33404

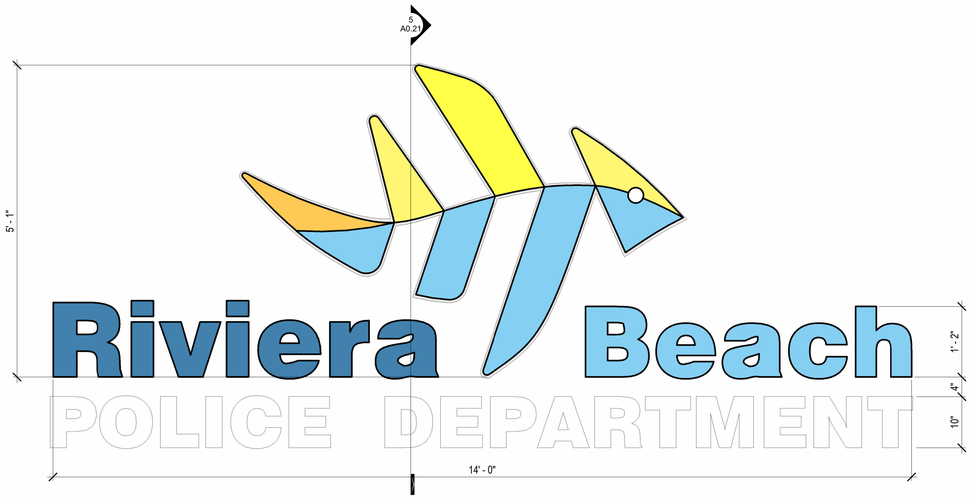
PROJECT NUMBER
1007657.00

SHEET TITLE
MATERIAL & FINISH SCHEDULE

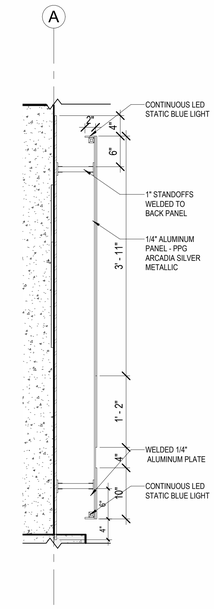
SHEET NUMBER
A0.20

GENERAL NOTES

G.G. TO PROVIDE ENGINEERED SHOP DRAWINGS & MATERIAL SAMPLES FOR REVIEW AND APPROVAL.
FIELD VERIFY ALL DIMENTIONS PRIOR TO MANUFACTURING.
VERIFY LOCATIONS, REQUIRED CLEARANCES AND DIMENSIONS IN FIELD.



CITY LOGO SIGNAGE 1" = 1'-0" **6**

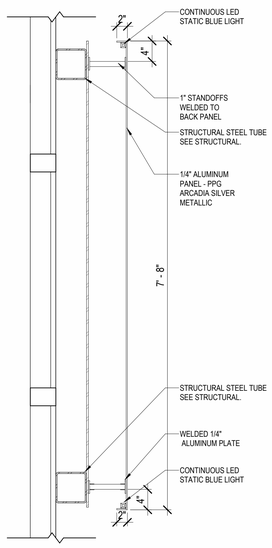


CITY LOGO SIGNAGE SECTION/DETAIL 1" = 1'-0" **5**

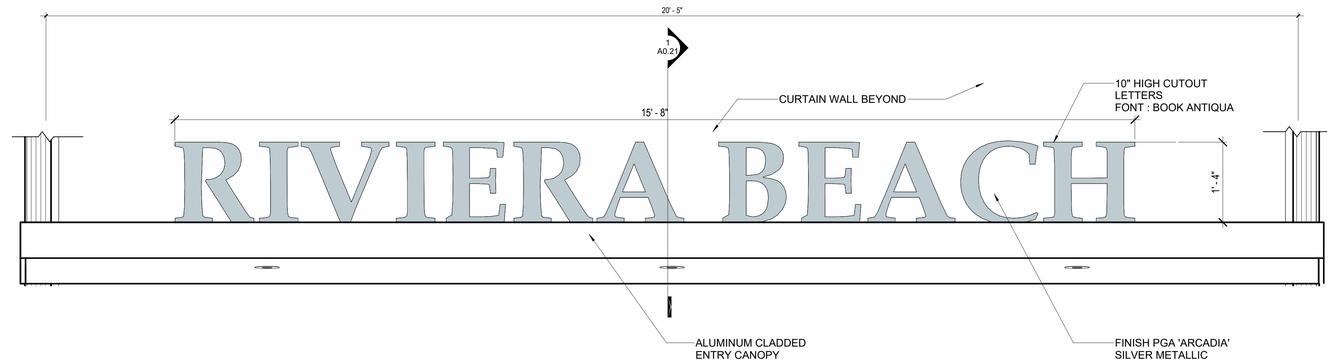


EV PARKING SIGN 3" = 1'-0" **7**

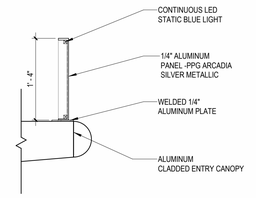
ENTRY POLICE LOGO SIGNAGE 1" = 1'-0" **4**



ENTRY POLICE LOGO SIGNAGE SECTION/DETAIL 1" = 1'-0" **3**



CANOPY ENTRY SIGNAGE 1" = 1'-0" **2**



RIVIERA BEACH SECTION/DETAIL 1" = 1'-0" **1**

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10/14/2025

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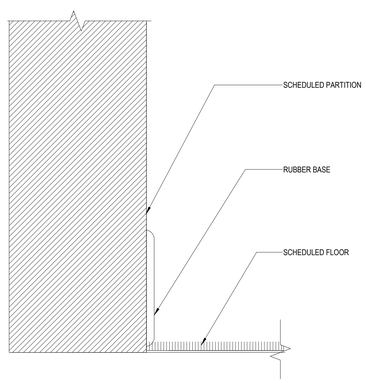
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

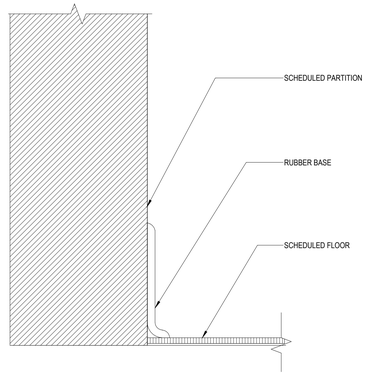
PROJECT NUMBER
1007657.00

SHEET TITLE
EXTERIOR SIGNAGE TYPES + DETAILS

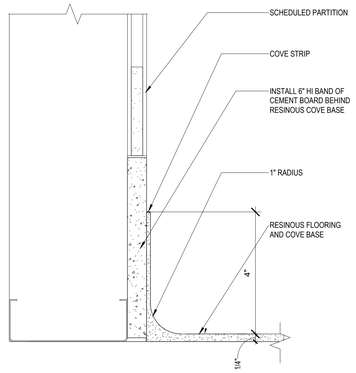
SHEET NUMBER
A0.21



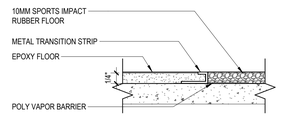
RUBBER BASE AT CARPET 6" = 1'-0" 13



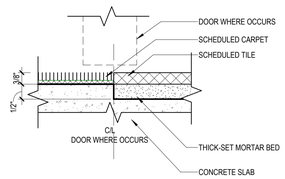
RUBBER BASE AT LVT AND VCT 6" = 1'-0" 6



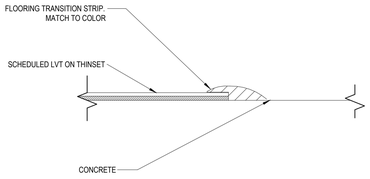
RESINOUS COVE BASE 6" = 1'-0" 3



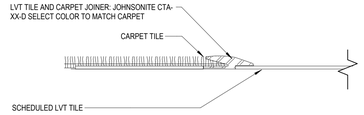
EPOXY TO RUBBER 6" = 1'-0" 12



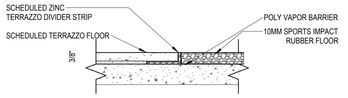
CARPET TO TILE 6" = 1'-0" 10



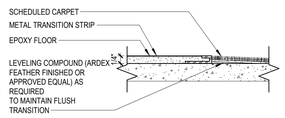
LVT TO CONCRETE 6" = 1'-0" 8



CARPET TO LVT 6" = 1'-0" 5

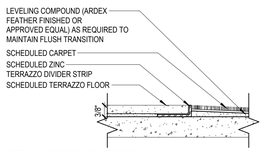


TERRAZZO TO RUBBER 6" = 1'-0" 2



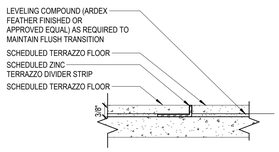
NOTE: FLOAT CARPET UP TO EPOXY FLOOR, SLOPE 1/2" PER 1'-0" MAX.

EPOXY TO CARPET 6" = 1'-0" 11

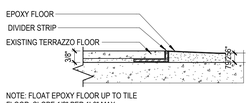


NOTE: FLOAT CARPET UP TO TERRAZZO FLOOR, SLOPE 1/2" PER 1'-0" MAX.

CARPET TO TERRAZZO 6" = 1'-0" 9

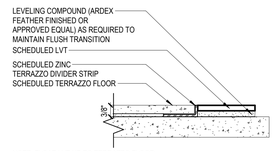


TERRAZZO TO TERRAZZO 6" = 1'-0" 7



NOTE: FLOAT EPOXY FLOOR UP TO TILE FLOOR, SLOPE 1/2" PER 1'-0" MAX.

TERRAZZO TO EPOXY 6" = 1'-0" 4



NOTE: FLOAT LVT UP TO TERRAZZO FLOOR,

TERAZZO TO LVT 6" = 1'-0" 1

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RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
TRANSITION DETAILS

SHEET NUMBER
A0.22

DOOR SCHEDULE GROUND FLOOR

Door	Room	Room Name	Panel Size Width	Panel Size Height	Panel Matl	Panel Type	Panel Finish	Frame Matl	Frame Type	Frame Finish	Fire Rating	Hardware	ROOM SIGNAGE TYPE	REMARKS
FIRST FLOOR														
100	100	BLDG. LOBBY	6' - 0"	8' - 2"	CAL	FG	PVDF	CAL		PVDF		#	A1	CA, B.R.8
100.1	102A	RECEPTION	3' - 0"	7' - 0"	HS	NV	PT04	HS	002	PT04	90 MIN	#	A1	CA, B.R.8
100.2	100	BLDG. LOBBY	3' - 0"	7' - 0"	HS	NV	PT04	HS	002	PT04	90 MIN	#	A1	CA, B.R.8
100.3	100	BLDG. LOBBY	3' - 0"	7' - 0"	HS	NV	PT04	HS	002	PT04	90 MIN	#	A1	CA, B.R.8
100.4	100I	VESTIBULE	3' - 0"	7' - 0"	HS	NV	PT04	HS	002	PT04	90 MIN	#	A1	CA, B.R.8
100.5	126A	ADA RR	3' - 0"	7' - 0"	HS	NV	PT04	HS	002	PT04	90 MIN	#	C2	B.R.8
100C	100H	CORRIDOR	3' - 0"	7' - 0"	CAL	NV	PT04	HG	002	PT04		#	A1	CA
100D.1	100D	VESTIBULE	3' - 0"	7' - 0"	HM	NV	PT04	HM	002	PT04	60 MIN	#	A1	DS-C.A.
100D.2	100E	CORRIDOR	3' - 0"	7' - 0"	HM	NV	PT04	HM	002	PT04		#	A1	DS-C.A.
100D.3	100D	VESTIBULE	3' - 0"	7' - 0"	HM	NV	PT04	HM	002	PT04		#	A1	DS-C.A.
100H	100H	CORRIDOR	3' - 0"	7' - 0"	CAL	NV	PT04	HG	002	PT04		#	A1	CA
100J	100J	CORRIDOR	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A1	CA
101	101	RECORDS	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A1	CA
101A	101A	RECORDS RECEPTION	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	
101B.1	101B	FINGER PRINT/ ID CARD	3' - 0"	7' - 0"	HS	NV	PT04	HM	002	PT04	90 MIN	#	A1	CA, B.R.8
101B.2	101B	FINGER PRINT/ ID CARD	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	CA
101C	101C	RECORDS SUPER.	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A1	
101D	101D	RECORDS STOR.	3' - 0"	7' - 0"	HM	F	PT04	HM	001	PT04		#	A1	CA
102	102	VICTIM ADVOCATE	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A1	CA
102A.2	102A	RECEPTION	3' - 0"	7' - 0"	HM	F	PT04	HM	001	PT04		#	A1	
102B.1	102B	INTERVIEW	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	
102B.2	102B	INTERVIEW	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	
102C	102C	SUPERVISOR	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	
103	103	CODE ENFORCEMENT	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A1	CA
103A	103A	SUPERVISOR	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	
104	104	ARMORY	3' - 0"	7' - 0"	HG2	NV	PT04	HG2	001	PT04		#	A1	CA
104.1	104A	BULK DELIVERY VESTIBULE	6' - 0"	7' - 0"	HG2	NV	PT04	HG2	002	PT04		#	A1	CA
104A	104A	BULK DELIVERY VESTIBULE	8' - 0"	8' - 0"	STL	HC	PCF	STL		00H.C PCF		#	A1	CA
104A.1	104A	BULK DELIVERY VESTIBULE	6' - 0"	8' - 0"	STL	HC	PCF	STL		00H.C PCF		#	A1	
105	105	QUARTERMASTER & STORAGE	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A1	CA
106	106	QUIET ROOM	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A1	
107A.1	107	CONTROL	3' - 0"	7' - 0"	HM	NV	PT04	HM	002	PT04		#	A1	CA
107A.2	107	CONTROL	3' - 0"	7' - 0"	HM	NV	PT04	HM	002	PT04		#	A1	CA
107B	107B	STORAGE	3' - 0"	7' - 0"	HM	NV	PT04	HM	002	PT04		#	A1	CA
107C	107C	JANITOR	3' - 0"	7' - 0"	HM	NV	PT04	HM	002	PT04		#	A1	CA
107D	107D	INTERVIEW	3' - 0"	7' - 0"	HM	NV	PT04	HM	002	PT04		#	A1	DS-C.A.
107E.1	107E	HOLDING BLOCK	3' - 0"	7' - 0"	HM	NV	PT04	HM	002	PT04		#	A1	DS-C.A.
107E.2	107E	HOLDING BLOCK	3' - 0"	7' - 0"	HM	NV	PT04	HM	002	PT04		#	A1	DS-C.A.
107F	107F	CELL	6' - 4"	8' - 0"	HG2	SF	SSD PCF	HG2	- 016S2	PCF		-	A4 "CELL 1S"	
107G	107G	CELL	6' - 4"	8' - 0"	HG2		SSD PCF	HG2	- 016S2	PCF		-	A4 "CELL 2S"	
107H	107H	CELL	6' - 4"	8' - 0"	HG2		SSD PCF	HG2	- 016S2	PCF		-	A4 "CELL 3S"	
107J	107J	CELL	6' - 4"	8' - 0"	HG2		SSD PCF	HG2	- 016S2	PCF		-	A4 "CELL 4S"	
107K	107K	INTERVIEW	3' - 0"	7' - 0"	HM	NV	PT04	HM	002	PT04		#	A1	DS-C.A.
107L	107L	BOOKING	3' - 0"	7' - 0"	HG	NV	PT04	HG	002	PT04		#	A1, K	DS-C.A.
107M	107M	DUI	3' - 0"	7' - 0"	HM	NV	PT04	HM	002	PT04		#	A1	DS-C.A.
107N.1	107N	HOLDING BLOCK	3' - 0"	7' - 0"	HM	NV	PT04	HM	002	PT04		#	A1	DS-C.A.
107N.2	107N	HOLDING BLOCK	3' - 0"	7' - 0"	HM	NV	PT04	HM	002	PT04		#	A1	DS-C.A.
107O	107O	CELL	6' - 4"	8' - 0"	HG2	F	SSD PCF	HG2	- 016S2	PCF		-	A4 "CELL 4N"	
107P	107P	CELL	6' - 4"	8' - 0"	HG2		SSD PCF	HG2	- 016S2	PCF		-	A4 "CELL 3N"	
107Q	107Q	CELL	6' - 4"	8' - 0"	HG2		SSD PCF	HG2	- 016S2	PCF		-	A4 "CELL 2N"	
107R	107R	CELL	6' - 4"	8' - 0"	HG2	F	SSD PCF	HG2	- 016S2	PCF		-	A4 "CELL 1N"	
107S	107S	ADA RESTROOM	3' - 0"	7' - 0"	WD	F	PL01	HM	002	PT04		#	C2	
108	108	FLEX SPACE	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A1	CA
109	109	MECHANICAL ROOM	3' - 0"	7' - 0"	HM	F	PT04	HM	001	PT04		#	A1, D, H	
110	110	I.T.	3' - 0"	7' - 0"	HM	F	PT04	HM	001	PT04		#	A1, D, H	CA
111	111	FLEX SPACE	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A1	
112	112	CRIME SCENE UNIT	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A1	CA
112A	112A	SUPERVISOR	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A2	
112B.1	112B	CRIME SCENE LAB	3' - 0"	7' - 0"	HM	NV	PT04	HM	002	PT04		#	A1	CA
112B.2	112B	CRIME SCENE LAB	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	CA
112C	112C	PHOTOGRAPHY	6' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	REQUIRES DOUBLE SWING WITH TOP & BOTTOM LOCKING FOR ONE PANEL
112D	112D	LATENT PROCESSING	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	
112E	112E	VESTIBULE	3' - 0"	7' - 0"	CAL	NV	PT04	HG	002	PT04		#	A1, K	CA
113	113	CONFERENCE	3' - 0"	9' - 0"	GL	FG	GL	AL	000	PF		#	A3	
113A	113A	ADA RR	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	C2	

DOOR SCHEDULE GROUND FLOOR

Door	Room	Room Name	Panel Size Width	Panel Size Height	Panel Matl	Panel Type	Panel Finish	Frame Matl	Frame Type	Frame Finish	Fire Rating	Hardware	ROOM SIGNAGE TYPE	REMARKS
113B	113B	RR	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	C1	
113C	113C	RR	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	C1	
113D	113D	ADA RR	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	C2	
114	114	EVIDENCE STORAGE	3' - 0"	7' - 0"	HM	NV	PT04	HM	002	PT04	90 MIN	#	A1	CA
114A	114A	DRUGS	3' - 0"	7' - 0"	HM	NV	PT04	HM	002	PT04		#	A1	CA
114B	114B	CASH, JEWELRY, AND AMMO	3' - 0"	7' - 0"	HM	NV	PT04	HM	002	PT04		#	A1	CA
114C	114C	GUNS	3' - 0"	7' - 0"	HM	NV	PT04	HM	002	PT04		#	A1	CA
115	115	EVIDENCE WORK STATIONS	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A1	CA
115A.1	115A	EVIDENCE VIEWING	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	CA
115A.2	115A	EVIDENCE VIEWING	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	
115B	115B	SUPERVISOR	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A2	
116	116	EVIDENCE DROP	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	CA
117	117	TRAFFIC	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A1	CA
117A	117A	TRAFFIC SGT.	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A2	
117B	117	TRAFFIC	3' - 0"	7' - 0"	HM	F	PL01	HM	001	PT04		#	A1	
118A	118A	CAPTAIN	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A2	
118B	118B	CAPTAIN	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A2	
118C	118C	CAPTAIN	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A2	
118D	118D	CAPTAIN	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A2	
118E	118E	MEETING	3' - 0"	7' - 0"	GL	FG	GL	AL	001	PF		#	A1	
119	119	MAIL/BODYCAM	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	
120	120	BRIEFING	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A1, B	
120A	120A	STOR.	3' - 0"	7' - 0"	HM	F	PL01	HM	001	PT04		#	A1	
121	121	TRAINING	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1, B	
121A	121A	STOR.	6' - 0"	7' - 0"	HM	F	PL01	HM	001	PT04		#	A1	
121B	121	TRAINING	3' - 0"	7' - 0"	WD	NV	PL01	HM	001	PT04		#	A1, B	
122	122	INTERVIEW	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	CA
123	123	INTERVIEW	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	CA
124	124	FAMILY INTERVIEW	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	CA
125	125	JAN.	3' - 0"	7' - 0"	HM	F	PT04	HM	001	PT04		#	A1	
126B	126B	RR	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	C1	
126C	126C	ADA RR	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	C1	
127	127	TRAINING SUPERVISOR	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A2	
128	128	TRAINING OFFICER	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	
129A	129	BREAKROOM	3' - 0"	8' - 0"	GL	FG	GL	AL	000	PF		#	A1	
129B	129	BREAKROOM	6' - 0"	8' - 0"	GL	FG	GL	AL	000	PF		#	A1	
130	130	GYM	6' - 0"	8' - 0"	GL	FG	GL	AL	000	PF		#	A1, B	
130.1	130	GYM	5' - 10"	8' - 0"	GL	FG	GL	AL	000	PF		#	A1, B	
130A	130A	FITNESS STORAGE	6' - 0"	7' - 0"	HM	F	PL01	HM	001	PT04		#	A1	
131.1	130	GYM	6' - 0"	7' - 0"	WD	NV	PL01	HM	001	PT04		#	A1, B	REQUIRES DOUBLE SWING WITH TOP & BOTTOM LOCKING FOR ONE PANEL
131.2	131	LOCKER ROOM	3' - 0"	7' - 0"	HM	NV	PT04	HM	001	PT04		#	A1	
131A	131A	BATHROOM	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	C3	
131B	131B	BATHROOM	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	C3	
131C	131C	BATHROOM	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	C3	
131D	131D	BATHROOM	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	C3	
131E	131E	BATHROOM	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	C3	
131F	131F	BATHROOM	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	C3	
131G	131G	ADA	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	C4	
131H	131H	ADA	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	C4	
132	132	JANITOR	3' - 0"	7' - 0"	HM	F	PT04	HM	001	PT04		#	A1	
133	133	OUTDOOR STORAGE	6' - 0"	8' - 0"	HG	F	PT04	HM	002	PT04		#	A1	
134A	134	SALLYPORT	3' - 0"	7' - 0"	CAL	NV	PT04	HG	002	PT04		#	A1	DS-C.A.
134B	134	SALLYPORT	22' - 0"	14' - 0"	STL	HC	PCF	STL	00H.C	PCF		#	A1	HIGH SPEED
134C	134	SALLYPORT	22' - 0"	14' - 0"	STL	HC	PCF	STL	00H.C	PCF		#	A1	HIGH SPEED
134D	134	SALLYPORT	3' - 0"	7' - 0"	HG	NV	PT04	HG	002	PT04		#	A1	DS-C.A.
135	135	MARINE STORAGE	6' - 0"	8' - 0"	HG	F	PT04	HG	002	PT04		#	A1	
136	136	BOOSTER PUMP ROOM	6' - 0"	8' - 0"	HG	F	PT04	HG	002	PT04		#	A1	
150	150	GENERATOR BUILDING	3' - 0"	7' - 0"	HM	F	PT04	HM	002	PT04		#	A1, F1	
150A	150A	EMERGENCY SWITCH BOARD	6' - 0"	7' - 0"	HM	F	PT04	HM	002	PT04		#	A1, F1	
150B	150	GENERATOR BUILDING	3' - 0"	7' - 0"	HM	F	PT04	HM	002	PT04		#	A1, F1	
151	151	FIRE PUMP ROOM	6' - 0"	7' - 0"	HM	F	PT04	HM	002	PT04		#	A1, F1	
197A.1	197A	STAIR	3' - 0"	7' - 0"	HG	NV	PT04	HG	002	PT04	60 MIN	#	A1, K, L2, L3	CA
197A.2	197A	STAIR	3' - 0"	7' - 0"	HM	NV	PT04	HM	002	PT04	60 MIN	#	A1, K, L2, L3	
197B.1	197B	STAIR	3' - 0"	7' - 0"	HG2	NV	PT	HM	002	PT	60 MIN	#	A1, K, L1, L4	DS-C.A., F.A.
197B.2	197B	STAIR	3' - 0"	7' - 0"	HM	NV	PT04	HM	002	PT04	60 MIN	#	A1, K, L1, L4	DS-C.A.

GENERAL DOOR NOTES

1. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING DOORS AND DOOR HARDWARE.
2. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFORMATION IN WRITING BEFORE EXECUTION OF WORK.
3. ALL EXTERIOR DOORS SHALL HAVE A CURRENT MIAMI-DADE NOA AND FLORIDA PRODUCT APPROVAL LISTED DESIGN PRESSURES SHALL MEET OR EXCEED REQUIRED DESIGN PRESSURES SHOWN IN THE DRAWINGS.
4. SEE STRUCTURAL DRAWINGS FOR "ALLOWABLE" DESIGN PRESSURES FOR OPENINGS.
5. SEE DIMENSION FLOOR PLANS FOR PARTITION TAGS. SEE SHEET A0.11 FOR PARTITION TYPE SCHEDULE. DOOR SUPPLIER TO COORDINATE HM METAL FRAME THROAT DIMENSION FOR THE DOOR AND FRAME SUBMITTAL.
6. ALL EXTERIOR HM DOORS AND FRAMES SHALL BE GALVANIZED; G60 COATING MINIMUM.
7. ALL EXTERIOR HM DOORS SHALL HAVE A CLOSED CHANNEL TOP.
8. ALL METAL DOORS SHALL BE SEAMLESS (EDGE SEAMS WELDED AND GROUND SMOOTH) WITH TOP AND BOTTOM CLOSURE CAPS.
9. ALL OPERABLE DOOR HANDLES SHALL BE LEVER TYPE.
10. EXTERIOR DOOR OPENING FORCE SHALL NOT EXCEED 8.5 LBS.
11. INTERIOR DOOR OPENING FORCE SHALL NOT EXCEED 5.0 LBS.
12. ALL FIRE RATED DOORS SHALL BE SELF CLOSING AND LATCHING.
13. THRESHOLD AT DOORWAYS SHALL NOT EXCEED 1/2 INCH. WITH A 1/4" BEVEL IN ACCORDANCE WITH CURRENT FBC-ACCESSIBILITY SECTION 303.3 FOR ADA COMPLIANCE.
14. SEE MECHANICAL DRAWINGS FOR DOOR LOUVERS AND / OR ADDITIONAL UNDERCUTS WHEN REQUIRED.
15. EXTERIOR DOOR FRAMES WITHIN CMU WALLS SHALL HAVE FOAM INSULATION.
16. INTERIOR DOOR FRAMES WITHIN CMU WALLS AND/OR FRAMED PARTITIONS WITH BATT INSULATION SHALL BE PACKED WITH MINERAL WOOL INSULATION.

SCHEDULE NOTES

1. ROOM AND DOOR REFERENCE NUMBERS ARE FOR DESIGN AND CONSTRUCTION COORDINATION PURPOSES ONLY.
2. CONTRACTOR SHALL COORDINATE WITH OWNER FOR FINAL ROOM & DOOR IDENTIFICATION FOR CLOSEOUT DOCUMENTATION.
3. CONTRACTOR SHALL FIELD VERIFY ALL DOOR SIZES & HARDWARE WITH OPENING PRIOR TO DOOR SUBMITTAL AND INSTALLATION. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.
4. EXTERIOR ALUMINUM STOREFRONT WINDOW AND DOOR SYSTEMS SHALL HAVE A CLEAR ANODIZED FINISH (CLASS 1 COATING) UNLESS OTHERWISE NOTED TO RECEIVE PVDF (RESIN COATING) WITH SPECIFIED COLOR. SEE WINDOW SCHEDULE AND BUILDING ELEVATIONS FOR ADDITIONAL INFORMATION.
5. INTERIOR ALUMINUM STOREFRONT WINDOW AND DOOR SYSTEMS SHALL HAVE A CLEAR ANODIZED FINISH.
6. DOORS WITH ELECTRIC STRIKES TO RECEIVE GROUT GUARDS WHEN FRAMES ARE GROUT FILLED OR RECEIVES FOAM INSULATION.
7. PROVIDE "NO STORAGE PERMITTED" SIGNAGE AT ALL ELECTRICAL AND LOW VOLTAGE EQUIPMENT ROOMS (I.T. / IDF / MDF / RADIO EQUIP.)
8. DOORS WITH ADA OPERATORS SHALL HAVE SAID DEVICES ON BOTH THE PUSH AND PULL SIDES OF THE DOOR.
9. SEE FINISH SCHEDULE AND BUILDING ELEVATIONS FOR ADDITIONAL INFORMATION REGARDING COLORS.

DOOR FIRE LABEL

A LABEL 90 MINUTES

B LABEL 60 MINUTES

C LABEL 45 MINUTES

20 MIN 20 MINUTES

WTR CTN PERFORMANCE BASED WATER CURTAIN, REFER TO LIFE SAFETY PLAN AND FIRE PROTECTION DRAWINGS FOR FURTHER INFORMATION

NOTE:
ALL FIRE RATED DOOR ASSEMBLIES SHALL MEET THE REQUIREMENTS FOR A SMOKE AND DRAFT CONTROL ASSEMBLY TESTED IN ACCORDANCE WITH UL 1784 WITH AN ARTIFICIAL BOTTOM SEAL INSTALLED ACROSS THE FULL WIDTH OF THE BOTTOM OF THE DOOR ASSEMBLY. THE AIR LEAKAGE RATE OF THE DOOR ASSEMBLY SHALL NOT EXCEED 3.0 CFM PER SQUARE FOOT OF DOOR OPENING AT 0.10 INCH OF WATER FOR BOTH THE AMBIENT TEMPERATURE AND ELEVATED TEMPERATURE TESTS. FBC 715.3.3

FLOOR PLAN LEGEND

INTERIOR DOORS: NON-RATED - 1/4" CLEAR TEMPERED GLASS, UNLESS SECURITY REQUIREMENTS ARE SPECIFIED.

INTERIOR DOORS: RATED - TGP FIRELITE PLUS (STANDARD GRADE) 5/16" LAMINATED 20-180 MINUTES (GLASS TO MATCH DOOR RATING), UNLESS SECURITY REQUIREMENTS ARE SPECIFIED

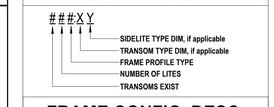
EXTERIOR DOORS: HOLLOW METAL - 7/16" LAMINATED GLASS CLEAR (2 PLIES HEAT STRENGTHENED FLOAT GLASS)

EXTERIOR DOORS: STOREFRONT - MATCH WINDOW GLAZING, LAMINATED GLASS

ROOM SIGNAGE NOTE

SEE SHEETS A0.60 AND A0.61 FOR INTERIOR SIGNAGE TYPE AND SIGNAGE DETAILS FOR ADDITIONAL INFORMATION

FRAME CONFIG. LEGEND



FRAME CONFIG. DESC.

TRANSOM:
0 - NO TRANSOM
1 - TRANSOM

SIDELITE:
0 - NO SIDELITE
1 - 1 SIDELITE
2 - 2 SIDELITES, 1 EACH SIDE OR BOTH

FRAME PROFILE TYPES:
1 - NOT USED.
2 - 2" JAMB/HEAD
3 - 2" JAMB, 4" HEAD, MASONRY
4 - REFER TO FENESTRATION SCHEDULE
5 - TRANSOM & SIDELITES BOTH SIDES
6 - SIDELITE ON EITHER SIDE
7 - CASED OPEN
8 - ---
E - EGRESS FRAME
H - OVERHEAD FRAME
M - 4" JAMB/HEAD, MASONRY
P - POCKET FRAME
S - SLIDING FRAME
S2 - SLIDING FRAME TRANSOM, 12 GA
T - TRACK FRAME

MATERIALS & FINISHES

AL - ALUMINUM
CAL - CLEAR ANODIZED ALUMINUM
G - GALVANIZED
GL - GLASS
HC - WOOD, HOLLOW CORE
HFG - HEAVY DUTY FENCE / GATE
HG - HOLLOW METAL GALV
HG2 - HOLLOW METAL GALV, GA 12
HM - HOLLOW METAL
HS - HM 12 GA. STEEL, BLAST RATED
PCF - POWDER COAT FINISH (MANUFACTURE)
PF - PREFINISHED (MANUFACTURE)
PL - PLASTIC LAMINATE
PT - PAINTED
PVDF - 70% RESIN COATING
SS - STAINLESS STEEL
STL - STEEL
VL - VINYL
WD - WOOD, SOLID CORE

DOOR PANEL

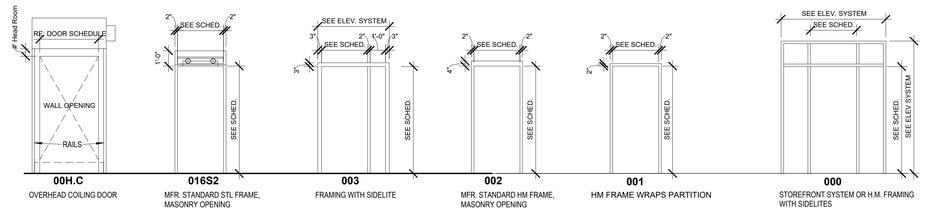
4FD - FOUR FOLD DOOR
F - FLUSH PANEL, SINGLE
FG - FULL GLASS PANEL, SINGLE
FO - FRAMED OPENING (NO DOOR PANEL)
HC - OVERHEAD COILING DOOR
LF - FULL LOUVER PANEL
NV - DOOR WITH NARROW VISION PANEL
YG - CHAIN LINK GATE
SSD - SLIDING SECURITY DOOR

DOOR REMARKS

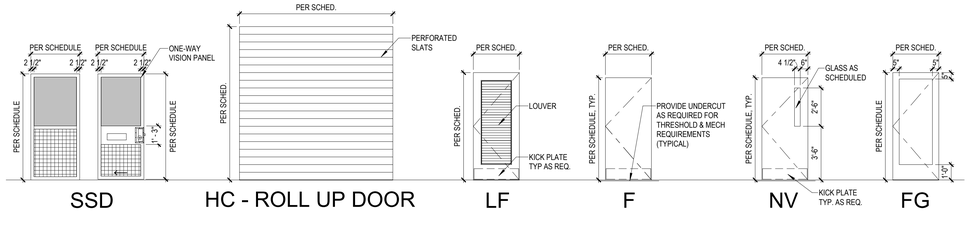
C.A. - CARD ACCESS
DS-C.A. - DOUBLE SIDED CARD ACCESS
FE - FORCED ENTRY RATED
B.R.8 - BALLISTIC RATED, LEVEL 8
F.A. - FIRE ALARM INTERCONNECTIVITY REQUIRED; DELAY EGRESS

HARDWARE

" # " SEE SPECIFICATION SECTION 087100, DOOR NUMBERS TO BE LISTED WITH HARDWARE HEADINGS
" - " HARDWARE BY SPECIALITY DOOR MANUFACTURER



DOOR FRAME ELEVATIONS 1/4" = 1'-0" (2)



DOOR PANEL ELEVATIONS 1/4" = 1'-0" (1)

FILE NAME: Autodesk Docs://_1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
DATE STAMP: 10/24/2025 1:32:15 PM

CLIENT

CITY OF RIVIERA BEACH
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32750

REGISTRATION

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STATE OF FLORIDA
JOBY L. BALINT
AR0016653
REGISTERED ARCHITECT

JOBY L. BALINT, AIA AR-0016653

NOTE: ELECTRONIC COPIES SHALL HAVE BOTH SEAL AND VERIFIED DIGITAL SIGNATURE WITH DATE TO BE CONSIDERED SIGNED AND SEALED

DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
GROUND FLOOR DOOR SCHEDULE & DOOR FRAME/PANEL ELEVATIONS

SHEET NUMBER
A0.30

DOOR SCHEDULE SECOND FLOOR

Door	Room	Room Name	Size Width	Size Height	Panel Matl	Panel Type	Panel Finish	Frame Matl	Frame Type	Frame Finish	Fire Rating	Hardware	SIGNAGE TYPE	Remarks
SECOND LEVEL														
201	201	EXEC. SUITE ADMIN	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A1	CA
201A	201A	EXEC. KITCHEN	3' - 2"	9' - 0"	GL	FG	GL	AL	000	PF		#	A1	
201A.1	201A	EXEC. KITCHEN	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	
201B	201	EXEC. SUITE ADMIN	3' - 2"	9' - 0"	GL	FG	GL	AL	000	PF		#	A1	
202	202	CHIEF'S ADMIN	3' - 0"	9' - 0"	GL	FG	GL	AL	000	PF		#	A1	
202A	202	CHIEF'S ADMIN	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	CA
202B	202	CHIEF'S ADMIN	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	CA
202C.1	202C	CHIEF'S CONFERENCE	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	CA
202C.2	202C	CHIEF'S CONFERENCE	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	CA
202D	202D	BATH	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	C3	
202E	202E	BATH	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	C3	
202F	202F	STOR.	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	
202G	202G	ADMIN STOR.	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	
203	203	CORRIDOR	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	CA
203.1	203	CORRIDOR	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A1	CA
203A	203A	ASSISTANT CHIEF	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A2	
203B	203B	ASSISTANT CHIEF	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A2	
203C	203C	MAJOR	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A2	
203D	203D	MAJOR	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A2	
203E	203E	MAJOR	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A2	
203F	203F	ADA RR	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	C1	
203G	203G	STOR.	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	
204	204	INTERNAL AFFAIRS	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A1	CA
204A	204A	COMMANDER	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A2	
204B	204B	SGT.	3' - 0"	7' - 0"	WD	F	WD	HM	003	PT04		#	A2	
204C	204C	INVESTIGATOR	3' - 0"	7' - 0"	WD	F	WD	HM	003	PT04		#	A1	
204D	204D	BACKGROUND INVESTIGATOR	3' - 0"	7' - 0"	WD	F	WD	HM	003	PT04		#	A1	
204E	204E	PERSONNEL/ IA FILES	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	CA
204F	204F	INTERVIEW	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	
205	205	TECH SPECIALIST	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	
206	206	MECHANICAL ROOM	6' - 0"	7' - 0"	WD	F	PL01	HM	001	PT		#	A1, D, H	CA
207	207	DETECTIVE BUREAU	3' - 0"	7' - 0"	WD	F	WD	HM	003	PT04		#	A1	DS-C.A.
207A	207A	MAJOR	3' - 0"	8' - 0"	GL	FG	GL	AL	000	PF		#	A2	
207B	207B	CAPTAIN	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A2	
207C	207C	SGT	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A2	
207D.1	207D	INTERVIEW	3' - 0"	7' - 0"	H62	NV	PT	HM	002	PT04	60 MIN	#	A1	DS-C.A.
207D.2	207D	INTERVIEW	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	DS-C.A.
208	208	LACTATION	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	CA
209A	209A	ADA RR	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	C2	
209B	209B	RR	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	C1	
209C	209C	RR	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	C1	
210	210	TECH WORKROOM	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	CA
211	211	TECH ADMIN.	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	
212	212	I.T. DATA ROOM	6' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1, D, H	CA
213	213	COMMUNICATIONS	3' - 0"	7' - 0"	WD	NV	PL01	HM	001	PT04		#	A1, B	CA
213C	213C	SUPER	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A2	
213D	213D	SUPER	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A2	
213E	213E	MANAGER	3' - 0"	7' - 0"	GL	FG	GL	AL	000	PF		#	A2	
213F	213F	QUIET ROOM	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	
213G	213G	BREAK AREA	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A1	
213H	213H	ADA BR	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	C4	
214	214	TAC	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A1	CA
214A	214A	SGT	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A2	
215	215	CONFERENCE ROOM	3' - 0"	9' - 0"	GL	FG	GL	AL	000	PF		#	A3	
216	216	BREAKROOM	3' - 0"	9' - 0"	GL	FG	GL	AL	000	PF		#	A1	
217	217	STOR.	6' - 0"	8' - 0"	HM	F	PT	HM	001	PT04		#	A1	
218	218	RTC	6' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	CA
218A	218A	RTC OFFICE	3' - 0"	7' - 0"	GL	FG	GL	AL	000	PF		#	A1	
218B	218B	SKIFF	3' - 0"	9' - 0"	GL	FG	GL	AL	000	PF		#	A1	
218B.2	218B	SKIFF	16' - 0"	9' - 6"	GL	FG	GL	AL	-	PF		#	A1	NANAWALL
218C	218C	RTC AV ROOM	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	CA
218D	202	CHIEF'S ADMIN	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	CA
219	219	DIGITAL FORENSICS	3' - 0"	7' - 0"	WD	F	PL01	HM	001	PT04		#	A1	CA
220	220	ACCREDITATION	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A1	
221	221	PIO	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A1	
222	222	PAYROLL OFFICE	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A1	
223	223	PURCHASING	3' - 0"	7' - 0"	WD	F	PL01	HM	003	PT04		#	A1	
224	224	MAIN ELECTRICAL ROOM	6' - 0"	8' - 0"	WD	F	PL01	HM	002	PT04		#	AI, D	CA
225	225	BDA EQUIP.	3' - 0"	7' - 0"	HM	F	PL01	HM	001	PT04		#	A1	
230		OUTDOOR PATIO	3' - 0"	8' - 0"	GL	FG	GL	AL	000	PF		#	A1	DS-C.A.
297A	297A	STAIR	3' - 6"	7' - 0"	HM	F	PT	HM	002	PT04		#	A1, K, L2, L3	CA
297B	297B	STAIR	3' - 0"	7' - 0"	HM	F	PT	HM	002	PT04		#	A1, K, L1, L4	CA
TOP OF STEEL														
300		ROOF LEVEL	3' - 8"	6' - 8"	HM	F	PT	HM	002	PT04	60 MIN	#		

GENERAL DOOR NOTES

1. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING DOORS AND DOOR HARDWARE.
2. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFORMATION IN WRITING BEFORE EXECUTION OF WORK.
3. ALL EXTERIOR DOORS SHALL HAVE A CURRENT MIAMI-DADE NOA AND FLORIDA PRODUCT APPROVAL LISTED DESIGN PRESSURES SHALL MEET OR EXCEED REQUIRED DESIGN PRESSURES SHOWN IN THE DRAWINGS.
4. SEE STRUCTURAL DRAWINGS FOR "ALLOWABLE" DESIGN PRESSURES FOR OPENINGS.
5. SEE DIMENSION FLOOR PLANS FOR PARTITION TAGS. SEE SHEET A0.11 FOR PARTITION TYPE SCHEDULE. DOOR SUPPLIER TO COORDINATE HM METAL FRAME THROAT DIMENSION FOR THE DOOR AND FRAME SUBMITTAL.
6. ALL EXTERIOR HM DOORS AND FRAMES SHALL BE GALVANIZED; G60 COATING MINIMUM.
7. ALL EXTERIOR HM DOORS SHALL HAVE A CLOSED CHANNEL TOP.
8. ALL METAL DOORS SHALL BE SEAMLESS (EDGE SEAMS WELDED AND GROUND SMOOTH WITH TOP AND BOTTOM CLOSURE CAPS
9. ALL OPERABLE DOOR HANDLES SHALL BE LEVER TYPE.
10. EXTERIOR DOOR OPENING FORCE SHALL NOT EXCEED 8.5 LBS.
11. INTERIOR DOOR OPENING FORCE SHALL NOT EXCEED 5.0 LBS.
12. ALL FIRE RATED DOORS SHALL BE SELF CLOSING AND LATCHING.
13. THRESHOLD AT DOORWAYS SHALL NOT EXCEED 1/2 INCH. WITH A 1/4" BEVEL IN ACCORDANCE WITH CURRENT FBC-ACCESSIBILITY SECTION 303.3 FOR ADA COMPLIANCE.
14. SEE MECHANICAL DRAWINGS FOR DOOR LOUVERS AND / OR ADDITIONAL UNDERCUTS WHEN REQUIRED.
15. EXTERIOR DOOR FRAMES WITHIN CMU WALLS SHALL HAVE FOAM INSULATION.
16. INTERIOR DOOR FRAMES WITHIN CMU WALLS AND/OR FRAMED PARTITIONS WITH BATT INSULATION SHALL BE PACKED WITH MINERAL WOOL INSULATION.

SCHEDULE NOTES

1. ROOM AND DOOR REFERENCE NUMBERS ARE FOR DESIGN AND CONSTRUCTION COORDINATION PURPOSES ONLY.
2. CONTRACTOR SHALL COORDINATE WITH OWNER FOR FINAL ROOM & DOOR IDENTIFICATION FOR CLOSEOUT DOCUMENTATION.
3. CONTRACTOR SHALL FIELD VERIFY ALL DOOR SIZES & HARDWARE WITH OPENING PRIOR TO DOOR SUBMITTAL AND INSTALLATION. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.
4. EXTERIOR ALUMINUM STOREFRONT WINDOW AND DOOR SYSTEMS SHALL HAVE A CLEAR ANODIZED FINISH (CLASS 1 COATING) UNLESS OTHERWISE NOTED TO RECEIVE PVDF (RESIN COATING) WITH SPECIFIED COLOR. SEE WINDOW SCHEDULE AND BUILDING ELEVATIONS FOR ADDITIONAL INFORMATION.
5. INTERIOR ALUMINUM STOREFRONT WINDOW AND DOOR SYSTEMS SHALL HAVE A CLEAR ANODIZED FINISH.
6. DOORS WITH ELECTRIC STRIKES TO RECEIVE GROUT GUARDS WHEN FRAMES ARE GROUT FILLED OR RECEIVES FOAM INSULATION.
7. PROVIDE "NO STORAGE PERMITTED" SIGNAGE AT ALL ELECTRICAL AND LOW VOLTAGE EQUIPMENT ROOMS (I.T. / IDF / MDF / RADIO EQUIP.)
8. DOORS WITH ADA OPERATORS SHALL HAVE SAID DEVICES ON BOTH THE PUSH AND PULL SIDES OF THE DOOR.
9. SEE FINISH SCHEDULE AND BUILDING ELEVATIONS FOR ADDITIONAL INFORMATION REGARDING COLORS.

DOOR FIRE LABEL

A LABEL 90 MINUTES

B LABEL 60 MINUTES

C LABEL 45 MINUTES

20 MIN 20 MINUTES

WTR CTN PERFORMANCE BASED WATER CURTAIN. REFER TO LIFE SAFETY PLAN AND FIRE PROTECTION DRAWINGS FOR FURTHER INFORMATION

NOTE:
ALL FIRE RATED DOOR ASSEMBLIES SHALL MEET THE REQUIREMENTS FOR A SMOKE AND DRAFT CONTROL ASSEMBLY TESTED IN ACCORDANCE WITH UL 1784 WITH AN ARTIFICIAL BOTTOM SEAL INSTALLED ACROSS THE FULL WIDTH OF THE BOTTOM OF THE DOOR ASSEMBLY. THE AIR LEAKAGE RATE OF THE DOOR ASSEMBLY SHALL NOT EXCEED 3.0 CFM PER SQUARE FOOT OF DOOR OPENING AT 0.10 INCH OF WATER FOR BOTH THE AMBIENT TEMPERATURE AND ELEVATED TEMPERATURE TESTS. FBC 715.3.3

FLOOR PLAN LEGEND

INTERIOR DOORS: NON-RATED - 1/4" CLEAR TEMPERED GLASS, UNLESS SECURITY REQUIREMENTS ARE SPECIFIED.

INTERIOR DOORS: RATED - TGP FIRELITE PLUS (STANDARD GRADE) 5/16" LAMINATED 20-180 MINUTES (GLASS TO MATCH DOOR RATING), UNLESS SECURITY REQUIREMENTS ARE SPECIFIED

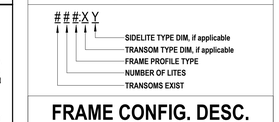
EXTERIOR DOORS: HOLLOW METAL - 7/16" LAMINATED GLASS CLEAR (2 PLIES HEAT STRENGTHENED FLOAT GLASS)

EXTERIOR DOORS: STOREFRONT - MATCH WINDOW GLAZING, LAMINATED GLASS

ROOM SIGNAGE NOTE

SEE SHEETS A0.60 AND A0.61 FOR INTERIOR SIGNAGE TYPE AND SIGNAGE DETAILS FOR ADDITIONAL INFORMATION

FRAME CONFIG. LEGEND



FRAME CONFIG. DESC.

TRANSOM:
0 - NO TRANSOM
1 - TRANSOM

SIDELITE:
0 - NO SIDELITE
1 - 1 SIDELITE
2 - 2 SIDELITES, 1 EACH SIDE OR BOTH

FRAME PROFILE TYPES:
1 - NOT USED.
2 - 2" JAMB/HEAD
3 - 2" JAMB, 4" HEAD, MASONRY
4 - REFER TO FENESTRATION SCHEDULE
5 - TRANSOM & SIDELITES BOTH SIDES
6 - SIDELITE ON EITHER SIDE
7 - CASED OPEN
8 - ---
E - EGRESS FRAME
H - OVERHEAD FRAME
M - 4" JAMB/HEAD, MASONRY
P - POCKET FRAME
S - SLIDING FRAME
S2 - SLIDING FRAME TRANSOM, 12 GA
T - TRACK FRAME

MATERIALS & FINISHES

AL - ALUMINUM
CAL - CLEAR ANODIZED ALUMINUM
G - GALVANIZED
GL - GLASS
HC - WOOD, HOLLOW CORE
HFG - HEAVY DUTY FENCE / GATE
HG - HOLLOW METAL GALV
HG2 - HOLLOW METAL GALV, GA 12
HM - HOLLOW METAL
HS - HM 12 GA. STEEL, BLAST RATED
PCF - POWDER COAT FINISH (MANUFACTURE)
PF - PREFINISHED (MANUFACTURE)
PL - PLASTIC LAMINATE
PT - PAINTED
PVDF - 70% RESIN COATING
SS - STAINLESS STEEL
STL - STEEL
VL - VINYL
WD - WOOD, SOLID CORE

DOOR PANEL

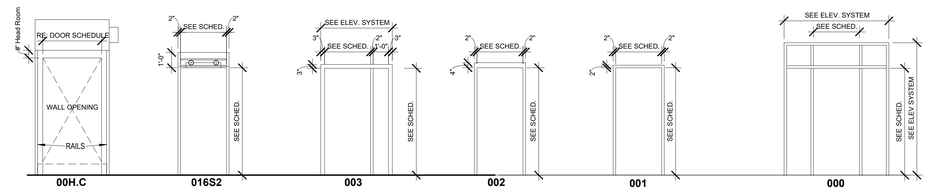
4FD - FOUR FOLD DOOR
F - FLUSH PANEL, SINGLE
FG - FULL GLASS PANEL, SINGLE
FO - FRAMED OPENING (NO DOOR PANEL)
HC - OVERHEAD COILING DOOR
LF - FULL LOUVER PANEL
NV - DOOR WITH NARROW VISION PANEL
YG - CHAIN LINK GATE
SSD - SLIDING SECURITY DOOR

DOOR REMARKS

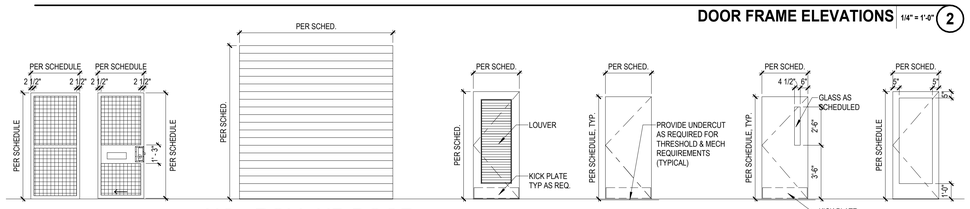
C.A. - CARD ACCESS
DS-C.A. - DOUBLE SIDED CARD ACCESS
FE - FORCED ENTRY RATED
B.R.8 - BALLISTIC RATED, LEVEL 8
F.A. - FIRE ALARM INTERCONNECTIVITY REQUIRED; DELAY EGRESS

HARDWARE

" # " SEE SPECIFICATION SECTION 087100, DOOR NUMBERS TO BE LISTED WITH HARDWARE HEADINGS
" - " HARDWARE BY SPECIALITY DOOR MANUFACTURER



DOOR FRAME ELEVATIONS 1/4" = 1'-0" (2)



DOOR PANEL ELEVATIONS Copy 1 1/4" = 1'-0" (1)

CLIENT

CITY OF RIVIERA BEACH
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CONSTRUCTION MANAGER/BUILDER

CORE CONSTRUCTION
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West Palm Beach
FL 33409

PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

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STATE OF FLORIDA JOBY L. BALINT REGISTERED ARCHITECT AR0016653

JOBY L. BALINT, AIA AR-0016653

NOTE: ELECTRONIC COPIES SHALL HAVE BOTH SEAL AND VERIFIED DIGITAL SIGNATURE WITH DATE TO BE CONSIDERED SIGNED / SEALED

DRAWING HISTORY

Nr	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

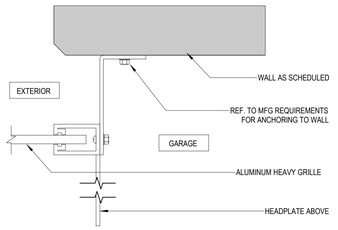
PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER
1007657.00

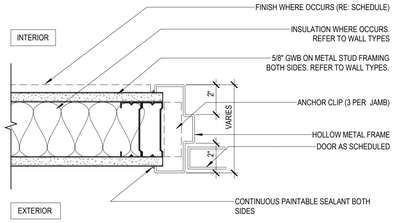
SHEET TITLE
SECOND FLOOR DOOR SCHEDULE & DOOR FRAME/PANEL ELEVATIONS

SHEET NUMBER
A0.31

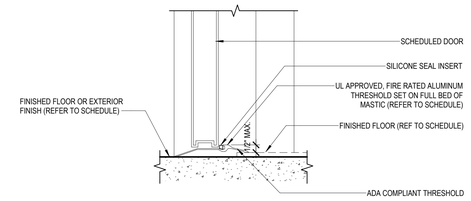
FILE NAME: Autodesk Docs://_1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
DATE STAMP: 10/24/2025 1:32:25 PM



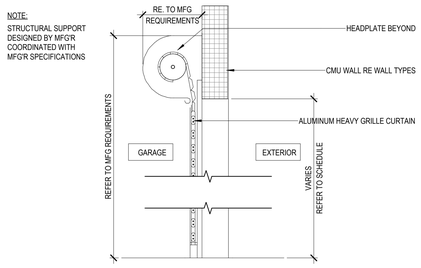
COILING GRILLE JAMB 3" = 1'-0" 15



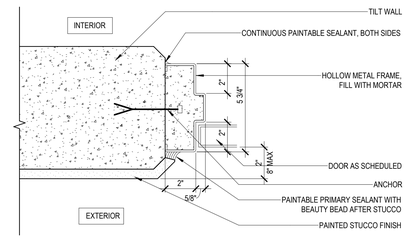
HOLLOW METAL DOOR JAMB/HEAD @ GYP. BD. 3" = 1'-0" 10



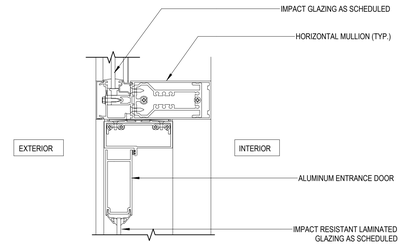
HOLLOW METAL DOOR THRESHOLD (SC SIM) 3" = 1'-0" 5



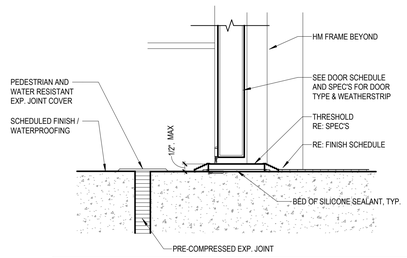
COILING GRILLE HEAD/THRESHOLD 1 : 3 14



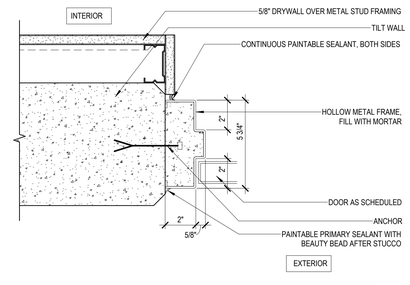
HOLLOW METAL DOOR JAMB/HEAD 3" = 1'-0" 9



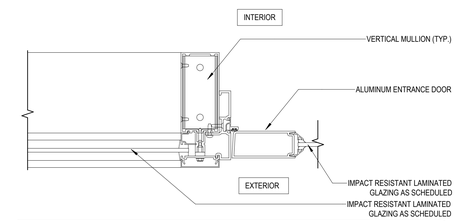
ALUMINUM DOOR HEAD 3" = 1'-0" 4



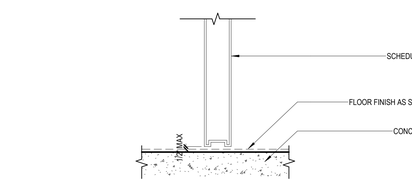
DOOR-DETAIL @ THRESHOLD & HM1 3" = 1'-0" 13



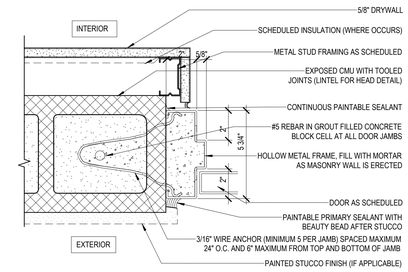
HOLLOW METAL DOOR JAMB/HEAD 3" = 1'-0" 8



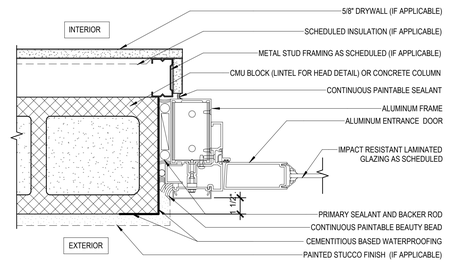
ALUMINUM DOOR JAMB 3" = 1'-0" 3



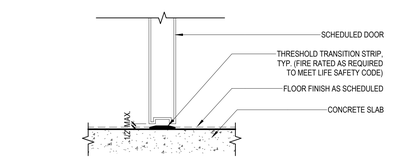
DR. THRESHOLD NO TRANSITION STRIP 3" = 1'-0" 12



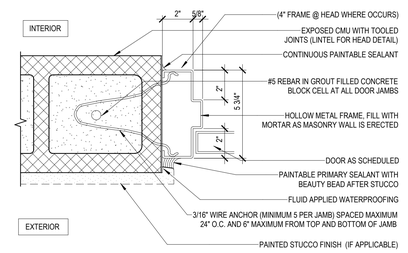
HOLLOW METAL DOOR JAMB/HEAD 3" = 1'-0" 7



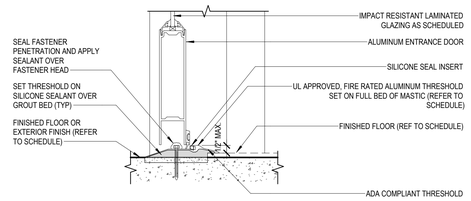
ALUMINUM DOOR JAMB/HEAD @ CMU CONCRETE WALL 3" = 1'-0" 2



DOOR THRESHOLD WTH TRANSITION STRIP 3" = 1'-0" 11



HOLLOW METAL DOOR JAMB/HEAD @ CMU 3" = 1'-0" 6



ALUMINUM DOOR THRESHOLD 3" = 1'-0" 1

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PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
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32750

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JOBY L. BALINT, AIA AR-0016653

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90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

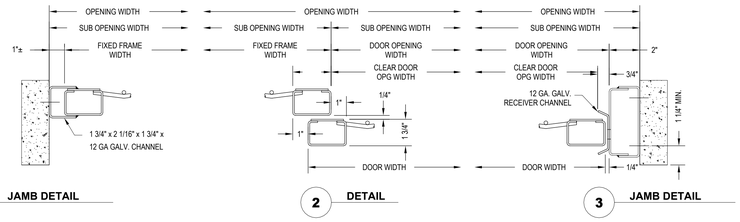
PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
DOOR DETAILS

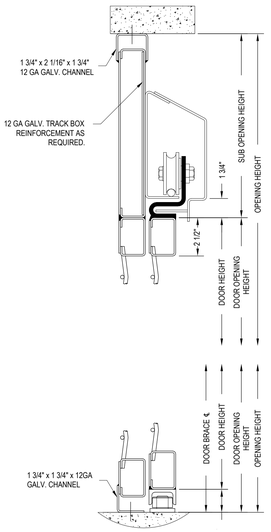
SHEET NUMBER
A0.35



1 JAMB DETAIL

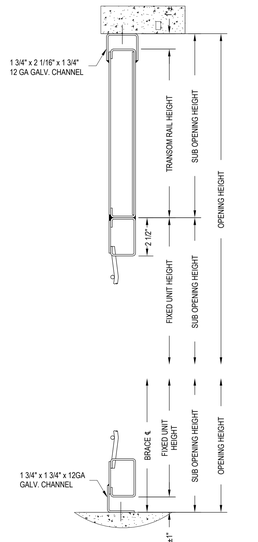
2 DETAIL

3 JAMB DETAIL



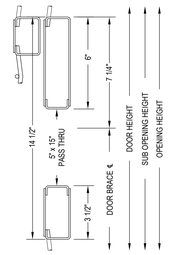
4 HEAD DETAIL

6 SILL DETAIL

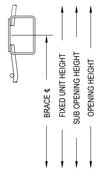


7 HEAD DETAIL

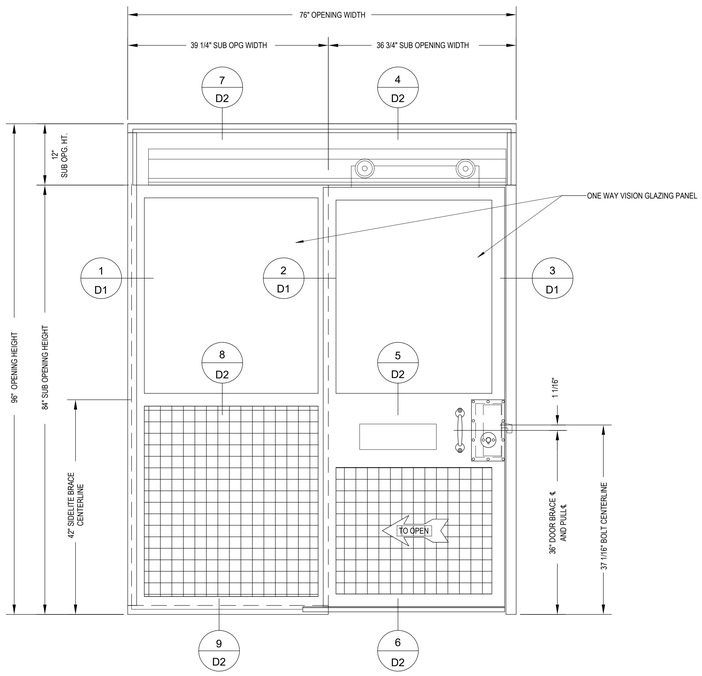
9 SILL DETAIL



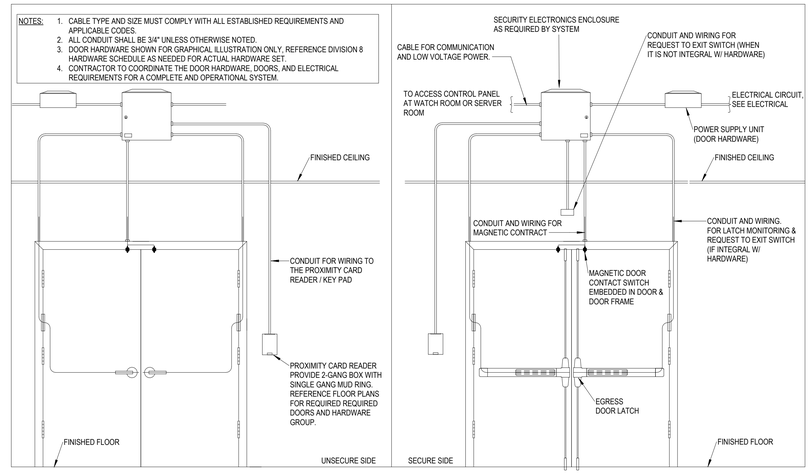
5 BRACE DETAIL



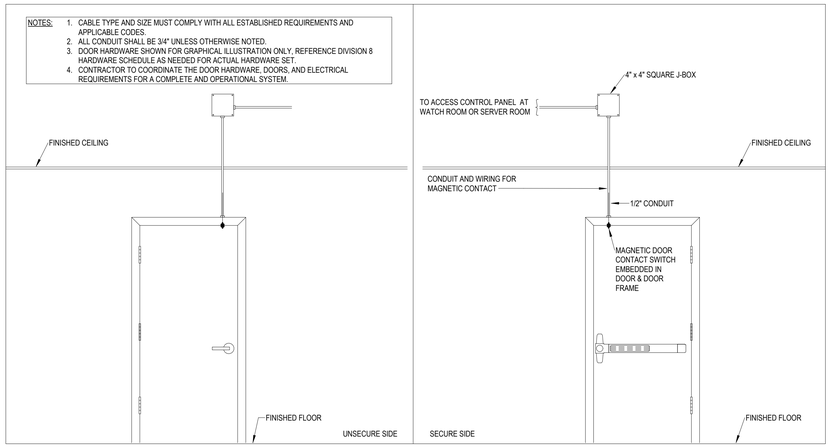
8 BRACE DETAIL



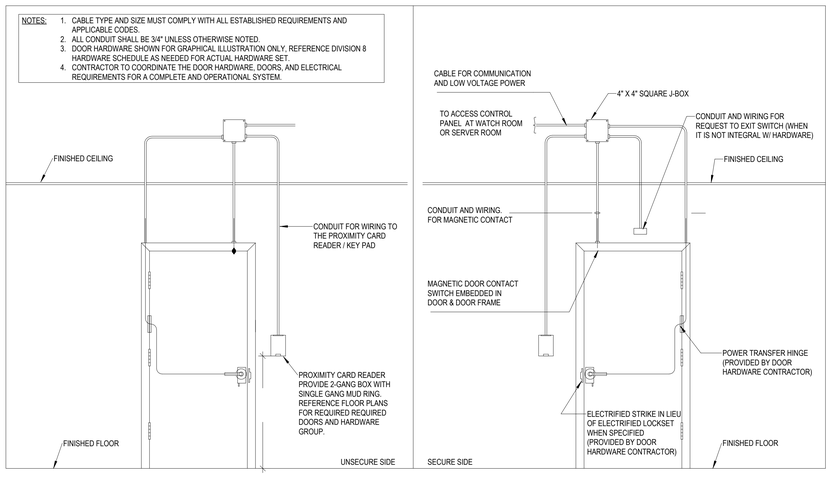
HOLDING CELL ELEVATION & DETAILS 1" = 1'-0" (4)



ELECTRONIC PANIC - DOOR ACCESS DETAIL 1/2" = 1'-0" (3)



MONITORING - DOOR ACCESS DETAIL 1/2" = 1'-0" (2)



ELECTRONIC LOCKSET - DOOR ACCESS DETAIL 1/2" = 1'-0" (1)

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SECURITY DOOR DETAILS

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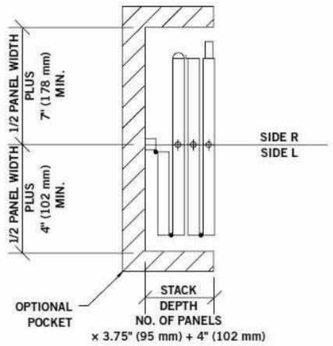
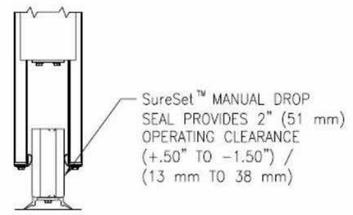
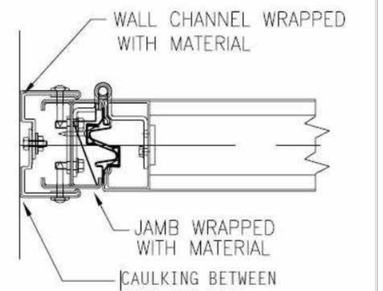
Bi-Fold Hinged Panel Closure



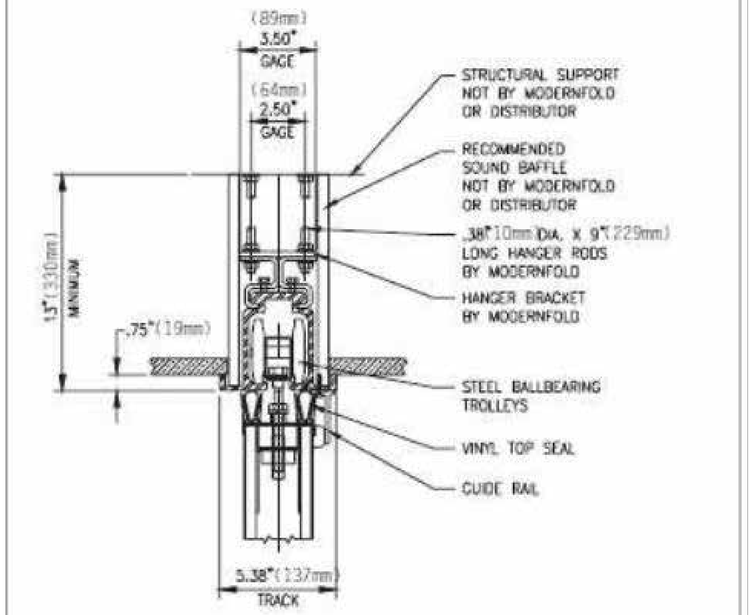
24-Inch Manual Seal



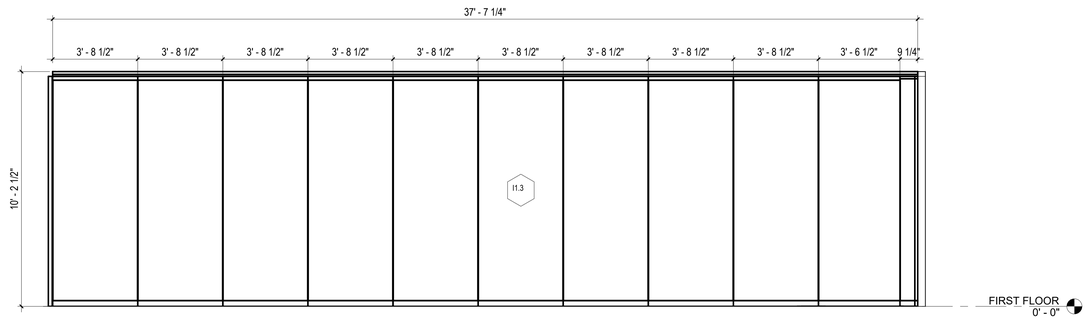
Hinged Jamb



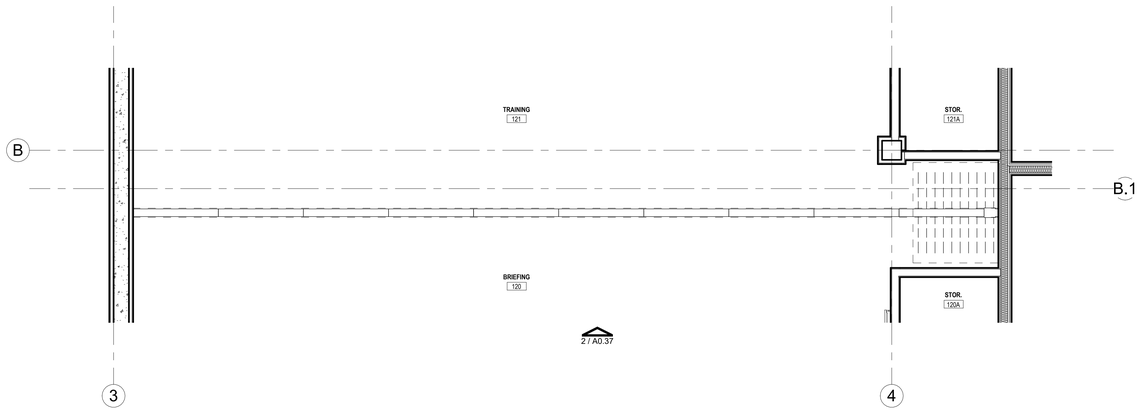
#30 Track system Standard Spacing



TRACK SYSTEM FOLDING PARTITION DETAILS 1" = 1'-0" (1)



BRIEFING FOLDABLE PARTITION_ELEVATION 3/8" = 1'-0" (2)



OPERABLE DOOR FLOOR PLAN 3/8" = 1'-0" (3)

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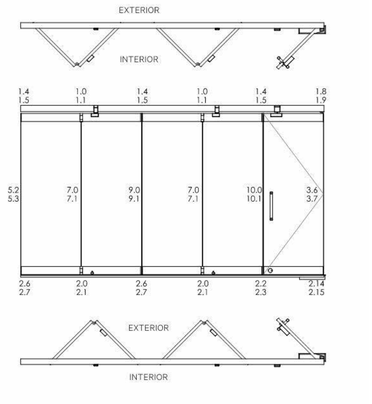
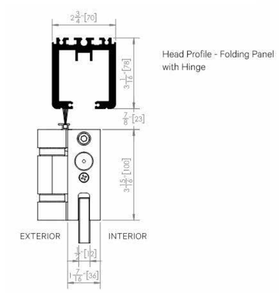
PROJECT NUMBER
1007657.00

SHEET TITLE
OPERABLE DOOR DETAILS

SHEET NUMBER
A0.37

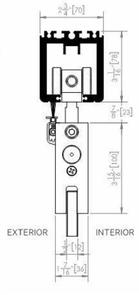
2LR_2LR_1R
with Additional Top Track Locking and Single Action End Panel with Floor Closer



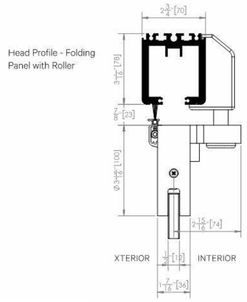


Head Profile - Folding Panel with Hinge

DETAIL 1.0



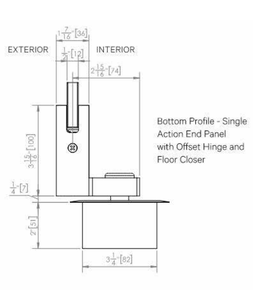
DETAIL 1.4

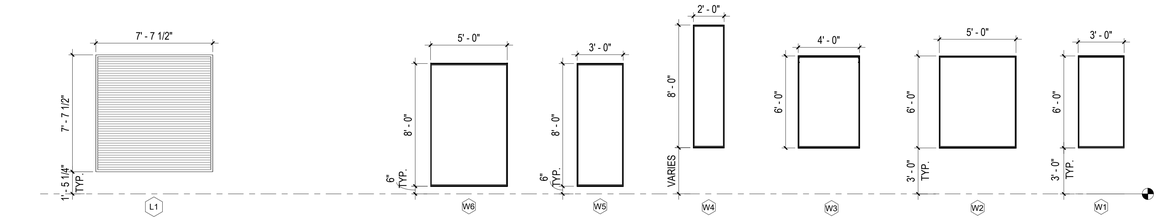


Head Profile - Folding Panel with Roller

Head Profile - Single Action End Panel with Offset Hinge

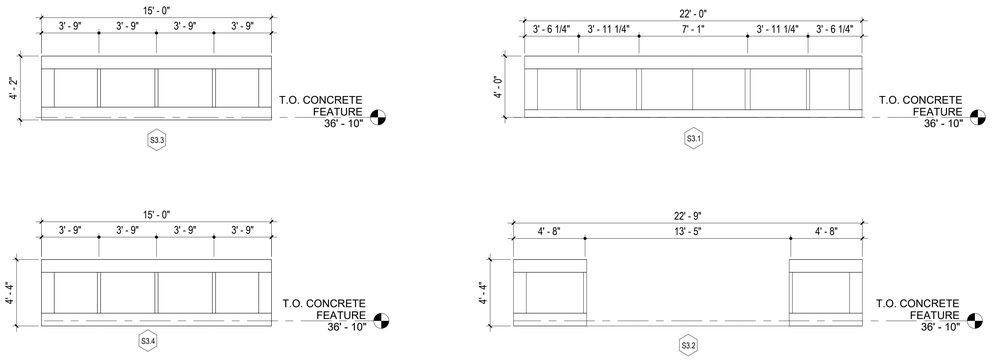
DETAIL 1.8


1 7/16" [36]
½" [12]
2 1/16" [74]
EXTERIOR
INTERIOR
3⅛" [80]
3⅛" [80]
3⅛" [80]

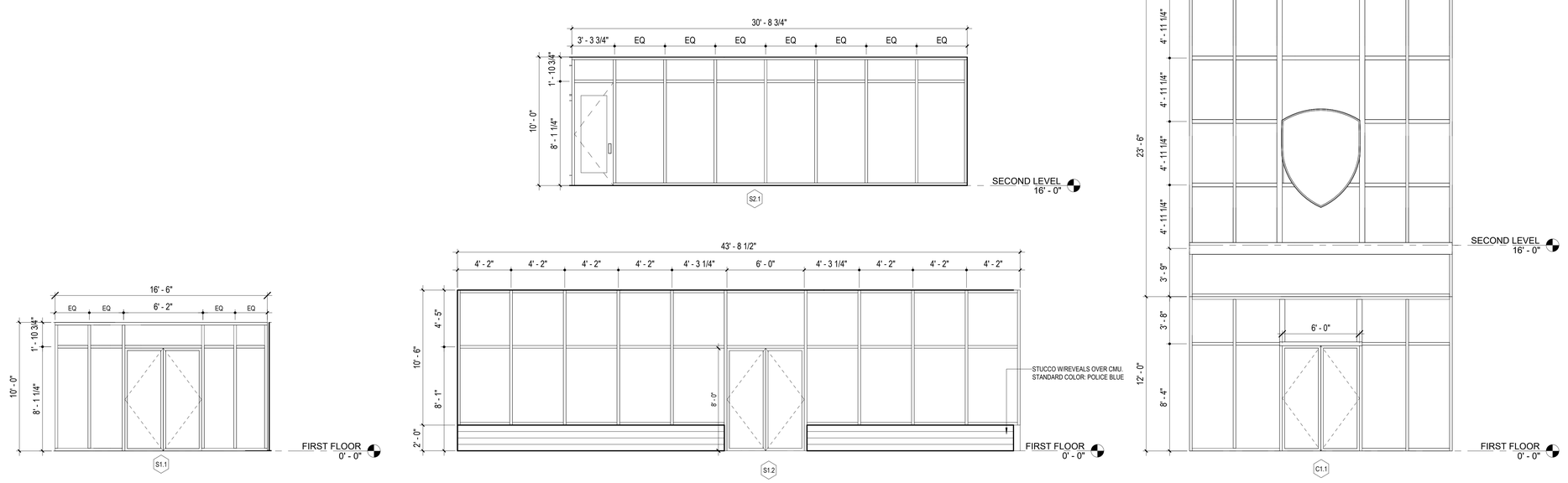


LOUVER TYPES 1/4" = 1'-0" (5)

EXTERIOR ALUMINUM WINDOW ELEVATIONS 1/4" = 1'-0" (3)



CUPOLA WINDOW ELEVATIONS 1/4" = 1'-0" (2)



EXTERIOR STOREFRONT ELEVATIONS 1/4" = 1'-0" (4)

EXTERIOR CURTAINWALL ELEVATIONS 1/4" = 1'-0" (1)

FENESTRATION NOTES

1. DO NOT SCALE DRAWINGS, CONTACT ARCHITECT IN WRITING FOR CLARIFICATIONS OR MISSING DIMENSIONS BEFORE CONTINUING WITH CONSTRUCTION.
2. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFORMATION IN WRITING PRIOR TO EXECUTION OF WORK.
3. REFER TO STRUCTURAL DRAWINGS FOR EXTERIOR OPENING " ALLOWABLE" DESIGN PRESSURES.
4. ALL EXTERIOR WINDOW AND STOREFRONT SYSTEMS TO HAVE A CURRENT MIAMI-DADE NOA AND FLORIDA PRODUCT APPROVALS; LISTED DESIGN PRESSURES MUST MEET OR EXCEED DESIGN
5. FIELD COORDINATE OVERALL DIMENSIONS AND OPENING DIMENSIONS PRIOR TO SUBMITTAL AND RELEASE OF MATERIALS. ARCHITECTURAL DIMENSIONS SHOWN THIS SHEET INCLUDE 1x PRESSURE TREATED (PT) BLOCKING, SHIMS AND SEALANT.
6. EXTERIOR ALUMINUM SYSTEMS SHALL HAVE A CLEAR ANODIZED FINISH (CLASS 1 COATING) UNLESS OTHERWISE NOTED TO RECEIVE PVDF (RESIN COATING) WITH A SPECIFIED COLOR. SEE BUILDING ELEVATIONS FOR ADDITIONAL INFORMATION.
7. INTERIOR ALUMINUM SYSTEMS SHALL HAVE A CLEAR ANODIZED FINISH; UNLESS OTHERWISE CALLED AS HOLLOW METAL ON THE WINDOW SCHEDULE.
8. PROVIDE A.W.V.B. (AIR WATER VAPOR BARRIER) COATING AT THE INSIDE HEAD, JAMB, SILL AND EXTERIOR FACE (12" MINIMUM) AROUND ALL WINDOW, DOOR AND LOUVER OPENINGS AS SHOWN IN THE DETAILS. ALL EXTERIOR SEALANT TO BE SILICONE AND COLOR TO MATCH ADJACENT BUILDING COLOR. FOLLOW MANUFACTURER INSTALLATION INSTRUCTIONS REGARDING THE A.W.V.B. COATING.
9. SEE GLAZING SCHEDULE BELOW FOR ADDITIONAL INFORMATION.
10. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
11. WIRE GLASS IS PROHIBITED ON THE PROJECT AND WILL BE REJECTED BY THE ARCHITECT.
12. ALL EXTERIOR FENESTRATIONS SHALL HAVE CURRENT TEST REPORTS AND LARGE MISSILE LEVEL 'E' IMPACT RATED. THIS STRUCTURE IS CLASSIFIED AS "CATEGORY IV ESSENTIAL BUILDINGS" PER CURRENT FLORIDA BUILDING CODE.

GLAZING SCHEDULE

INTERIOR GLAZING:
NON-RATED - 1/4" CLEAR TEMPERED GLASS MINIMUM, UNLESS OTHERWISE NOTED OR REQUIRED.

RATED - TGP FIRELITE PLUS (STANDARD GRADE) 5/16" LAMINATED 20-180 MINUTES (GLASS TO MATCH PARTITION RATING) SEE "LIFE SAFETY FLOOR PLAN" FOR FIRE RATED WALLS / PARTITIONS.

INTERIOR GLAZED WALL SYSTEM (BASIS OF DESIGN):
INFINIUM QUANTUM CENTER SINGLE BUTT GLAZED SYSTEM
BLACK FRAME FINISH, STC 35 MIN, 1/2" PANES, WOOD DOOR, FRAMELESS CORNERS
CONTACT: NICOLE DONE PIMENTEL 857-265-8820
SEE ELEVATIONS UNDER DETAIL 1/A0.41

CURRENT FBC-BUILDING NOTES:
INTERIOR GLAZING ADJACENT TO A WALKING SURFACE SHALL COMPLY WITH 2023 FBC-BUILDING SECTION 2403.4

GLAZING SHALL COMPLY WITH 2023 FBC-BUILDING SECTION 2406 "SAFETY GLAZING" AS REQUIRED BY 2406.4.2 AND 2406.4.3.

INTERIOR SECURITY GLAZING (HOLDING CELLS):
FORCED ENTRY WINDOWS
BASIS OF DESIGN - "ATTACK DEFEND 10 SECURITY GLAZING" BY MCGRORY GLASS". PROVIDE A LIGHT-GREY TINT TO OBSCURE VISION FROM THE HALLWAY INTO THE CONTROL ROOM.

PUBLIC LOBBY WINDOW
BASIS OF DESIGN - "BALLISTIC DEFEND 8-GCP" BY MCGRORY GLASS.
LEVEL 8 PROTECTION PER UL752.

EXTERIOR GLAZING:
TINTED, LAMINATED GLASS, CLASS 'E' IMPACT RATED FOR RISK CATEGORY IV ESSENTIAL BUILDINGS.
EXTERIOR GLAZING ABOVE TILT UP ENTRY TO HAVE TINTED DARK GRAY REFLECTIVE PANEL TREATEMENT

BASIS OF DESIGN CRITERIA:

HEAT-STRENGTHENED FLOAT GLASS
0.25 INCH THICKNESS (MINIMUM) EACH PLY
OUTER PLY: CLEAR, SOLARBAN 70XL ON SURFACE #2
INNER PLY: TINTED, AZURIA
INTERLAYER: CLEAR, 0.180 INCH THICKNESS
VISIBLE LIGHT TRANSMITTANCE: 48%
REFLECTANCE (OUTSIDE): 15%
REFLECTANCE (INSIDE): 12%
SOLAR EXTERIOR REFLECTANCE: 38%
SOLAR TRANSMITTANCE: 16%
U-VALUE: 0.93 WINTER / 0.84 SUMMER
SHADING COEFFICIENT: 0.44
SHGC: 0.31
LSG: 1.55

LEGEND

FENESTRATION TAG: SEE FLOOR PLANS (A2 series) FOR WINDOW AND WINDOW SYSTEM FENESTRATION TAGS



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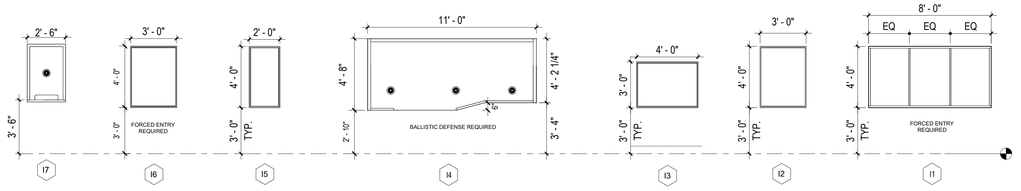
GLAZING SCHEDULE & EXTERIOR WINDOW ELEVATIONS

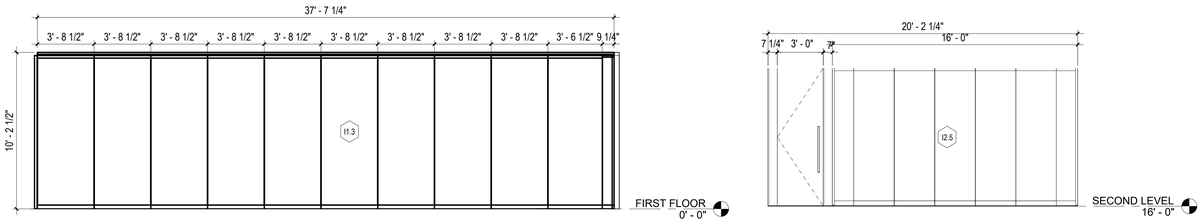
SHEET NUMBER

A0.40

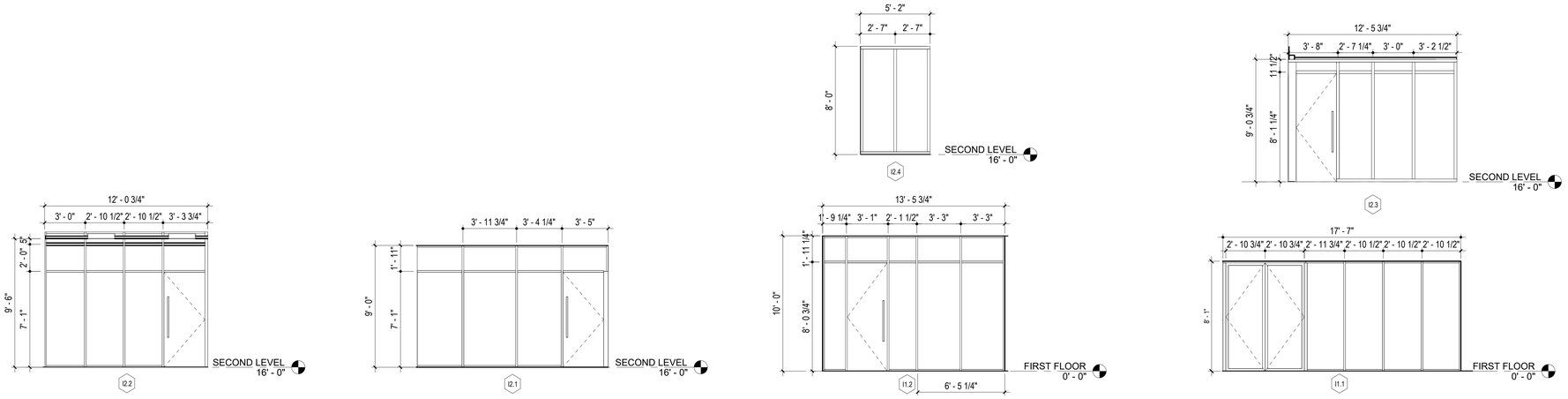
FILE NAME: Autodesk Docs://. 1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
DATE STAMP: 10/24/2025 2:11:23 PM



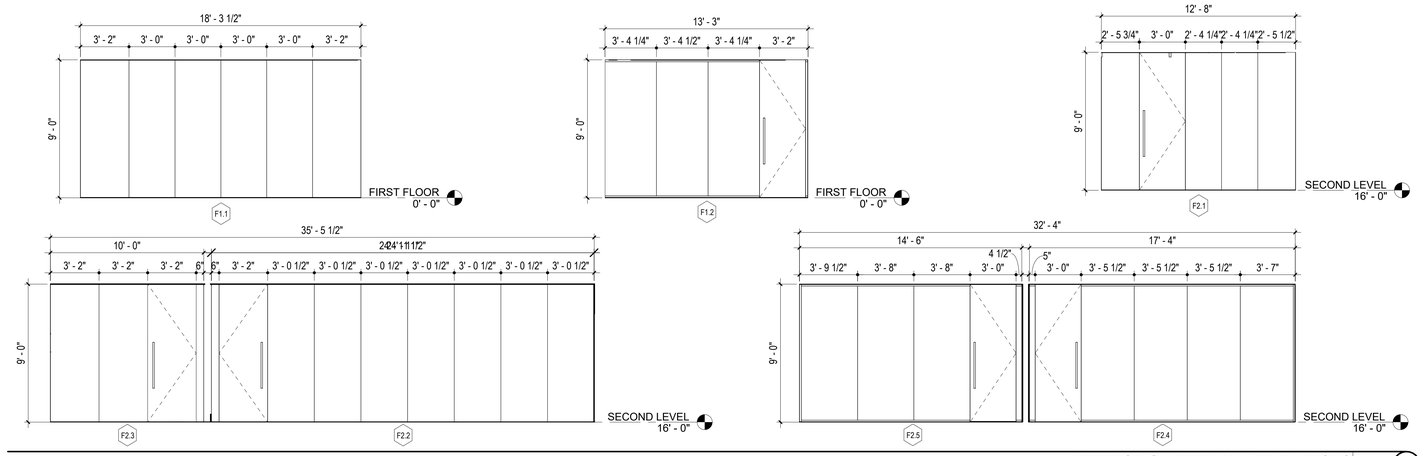
INTERIOR WINDOW ELEVATIONS 1/4" = 1'-0" **4**



FOLDING DOOR PARTITIONS 1/4" = 1'-0" **3**



INTERIOR STOREFRONT ELEVATIONS 1/4" = 1'-0" **2**



INTERIOR GLAZED WALL ELEVATIONS 1/4" = 1'-0" **1**

FENESTRATION NOTES

1. DO NOT SCALE DRAWINGS, CONTACT ARCHITECT IN WRITING FOR CLARIFICATIONS OR MISSING DIMENSIONS BEFORE CONTINUING WITH CONSTRUCTION.
2. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFORMATION IN WRITING PRIOR TO EXECUTION OF WORK.
3. REFER TO STRUCTURAL DRAWINGS FOR EXTERIOR OPENING " ALLOWABLE" DESIGN PRESSURES.
4. ALL EXTERIOR WINDOW AND STOREFRONT SYSTEMS TO HAVE A CURRENT MIAMI-DADE NOA AND FLORIDA PRODUCT APPROVALS; LISTED DESIGN PRESSURES MUST MEET OR EXCEED DESIGN
5. FIELD COORDINATE OVERALL DIMENSIONS AND OPENING DIMENSIONS PRIOR TO SUBMITTAL AND RELEASE OF MATERIALS. ARCHITECTURAL DIMENSIONS SHOWN ON THIS SHEET INCLUDE 1x PRESSURE TREATED (PT) BLOCKING, SHIMS AND SEALANT.
6. EXTERIOR ALUMINUM SYSTEMS SHALL HAVE A CLEAR ANODIZED FINISH (CLASS 1 COATING) UNLESS OTHERWISE NOTED TO RECEIVE PVDF (RESIN COATING) WITH A SPECIFIED COLOR. SEE BUILDING ELEVATIONS FOR ADDITIONAL INFORMATION.
7. INTERIOR ALUMINUM SYSTEMS SHALL HAVE A CLEAR ANODIZED FINISH; UNLESS OTHERWISE CALLED AS HOLLOW METAL ON THE WINDOW SCHEDULE.
8. PROVIDE A.W.V.B. (AIR WATER VAPOR BARRIER) COATING AT THE INSIDE HEAD, JAMB, SILL AND EXTERIOR FACE (12" MINIMUM) AROUND ALL WINDOW, DOOR AND LOUVER OPENINGS AS SHOWN IN THE DETAILS. ALL EXTERIOR SEALANT TO BE SILICONE AND COLOR TO MATCH ADJACENT BUILDING COLOR. FOLLOW MANUFACTURER INSTALLATION INSTRUCTIONS REGARDING THE A.W.V.B. COATING.
9. SEE GLAZING SCHEDULE BELOW FOR ADDITIONAL INFORMATION.
10. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
11. WIRE GLASS IS PROHIBITED ON THE PROJECT AND WILL BE REJECTED BY THE ARCHITECT.
12. ALL EXTERIOR FENESTRATIONS SHALL HAVE CURRENT TEST REPORTS AND LARGE MISSILE LEVEL 'E' IMPACT RATED. THIS STRUCTURE IS CLASSIFIED AS "CATEGORY IV ESSENTIAL BUILDINGS" PER CURRENT FLORIDA BUILDING CODE.

GLAZING SCHEDULE

INTERIOR GLAZING:
NON-RATED - 1/4" CLEAR TEMPERED GLASS MINIMUM, UNLESS OTHERWISE NOTED OR REQUIRED.

RATED - TGP FIRELITE PLUS (STANDARD GRADE) 5/16" LAMINATED 20-180 MINUTES (GLASS TO MATCH PARTITION RATING) SEE "LIFE SAFETY FLOOR PLAN" FOR FIRE RATED WALLS / PARTITIONS.

INTERIOR GLAZED WALL SYSTEM (BASIS OF DESIGN):
INFINIUM QUANTUM CENTER SINGLE BUTT GLAZED SYSTEM
BLACK FRAME FINISH, STC 35 MIN, 1/2" PANES, WOOD DOOR, FRAMELESS CORNERS
CONTACT: NICOLE DONE PIMENTEL 857-265-8820
SEE ELEVATIONS UNDER DETAIL 1/A0.41

CURRENT FBC-BUILDING NOTES:
INTERIOR GLAZING ADJACENT TO A WALKING SURFACE SHALL COMPLY WITH 2023 FBC-BUILDING SECTION 2403.4

GLAZING SHALL COMPLY WITH 2023 FBC-BUILDING SECTION 2406 "SAFETY GLAZING" AS REQUIRED BY 2406.4.2 AND 2406.4.3.

INTERIOR SECURITY GLAZING (HOLDING CELLS):
FORCED ENTRY WINDOWS
BASIS OF DESIGN - "ATTACK DEFEND 10 SECURITY GLAZING" BY MCGRORY GLASS". PROVIDE A LIGHT-GREY TINT TO OBSCURE VISION FROM THE HALLWAY INTO THE CONTROL ROOM.

PUBLIC LOBBY WINDOW
BASIS OF DESIGN - "BALLISTIC DEFEND 8-GCP" BY MCGRORY GLASS.
LEVEL 8 PROTECTION PER UL752.

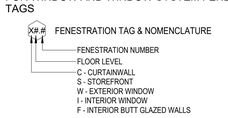
EXTERIOR GLAZING:
TINTED, LAMINATED GLASS, CLASS 'E' IMPACT RATED FOR RISK CATEGORY IV ESSENTIAL BUILDINGS.
EXTERIOR GLAZING ABOVE TILT UP ENTRY TO HAVE TINTED DARK GRAY REFLECTIVE PANEL TREATEMENT

BASIS OF DESIGN CRITERIA:

HEAT-STRENGTHENED FLOAT GLASS
0.25 INCH THICKNESS (MINIMUM) EACH PLY
OUTER PLY: CLEAR, SOLARBAN 70XL ON SURFACE #2
INNER PLY: TINTED, AZURIA
INTERLAYER: CLEAR, 0.180 INCH THICKNESS
VISIBLE LIGHT TRANSMITTANCE: 48%
REFLECTANCE (OUTSIDE): 15%
REFLECTANCE (INSIDE): 12%
SOLAR EXTERIOR REFLECTANCE: 38%
SOLAR TRANSMITTANCE: 16%
U-VALUE: 0.93 WINTER / 0.84 SUMMER
SHADING COEFFICIENT: 0.44
SHGC: 0.31
LSG: 1.55

LEGEND

FENESTRATION TAG: SEE FLOOR PLANS (A2 series) FOR WINDOW AND WINDOW SYSTEM FENESTRATION TAGS



CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
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ARCHITECT OF RECORD

PGAL, Inc.
791 Park of Commerce Blvd.
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T 561 988 4002
www.pgal.com

CONSTRUCTION MANAGER/BUILDER

CORE CONSTRUCTION
1641 Worthington Rd
West Palm Beach
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PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

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STATE OF FLORIDA
JOBY L. BALINT
AR0016653
REGISTERED ARCHITECT

JOBY L. BALINT, AIA AR-0016653

NOTE: ELECTRONIC CORES SHALL HAVE BOTH SEAL AND VERIFIED DIGITAL SIGNATURE WITH DATE TO BE CONSIDERED SIGNED AND SEALED

DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

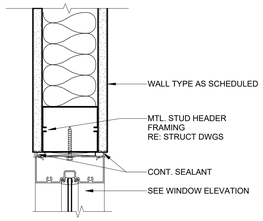
PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER
1007657.00

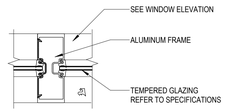
SHEET TITLE
INTERIOR WINDOW ELEVATIONS

SHEET NUMBER
A0.41

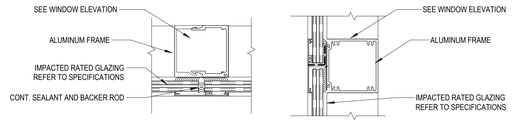
FILE NAME: Autodesk Docs://. 1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
DATE STAMP: 10/24/2025 1:33:00 PM



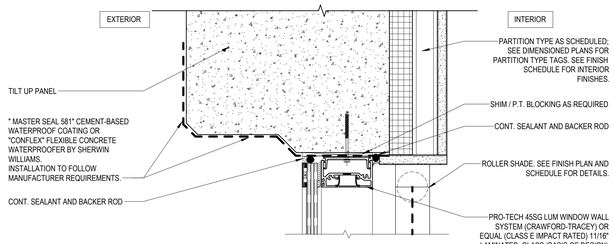
INTERIOR ALUMINUM WINDOW SYSTEM HEAD/SEAL & JAMB DETAIL 3" = 1'-0" (10)



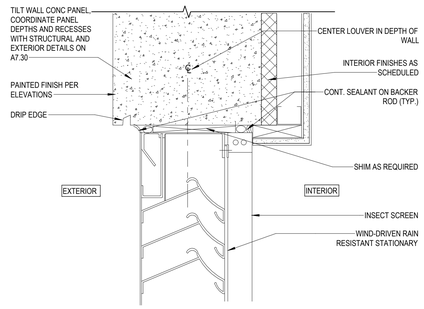
INTERIOR ALUMINUM WINDOW SYSTEM - INTERMEDIATE MULLION 3" = 1'-0" (7)



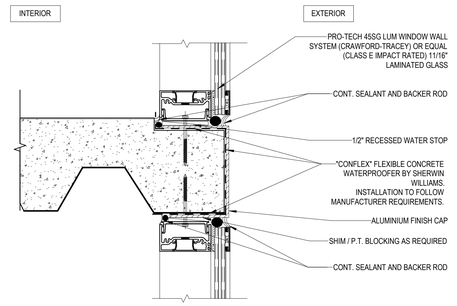
EXTERIOR WINDOW MULLION DETAIL 3" = 1'-0" (6)



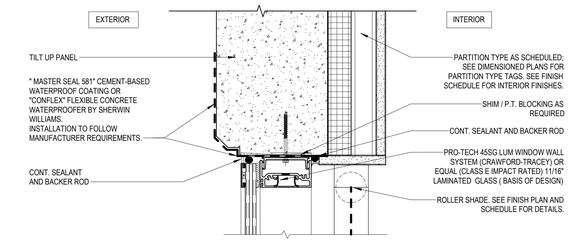
JAMB & HEAD DET. @ EAST WALL 3" = 1'-0" (3)



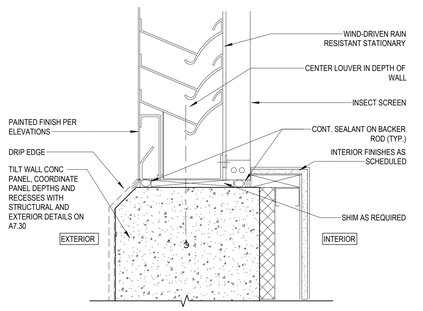
LOUVER HEAD / JAMB 3" = 1'-0" (9)



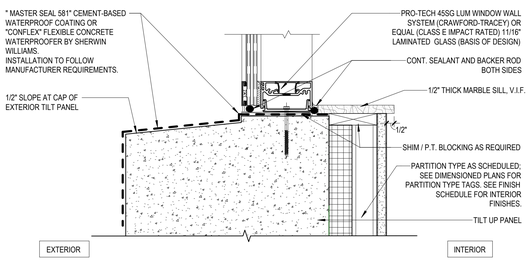
DETAIL @ STOREFRONT ENTRY 3" = 1'-0" (5)



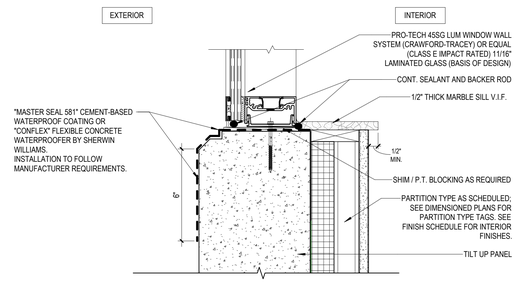
JAMB & HEAD DET. TYPICAL 3" = 1'-0" (2)



LOUVER SILL. 3" = 1'-0" (8)



SILL DETAIL @ EAST WALL 3" = 1'-0" (4)



SILL DETAIL TYPICAL 3" = 1'-0" (1)

FILE NAME: Autodesk Docs://_1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
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REGISTRATION

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STATE OF FLORIDA
JOBY L. BALINT
REGISTERED ARCHITECT
AR0016653

JOBY L. BALINT, AIA AR-0016653

NOTE: ELECTRONIC COPIES SHALL HAVE BOTH SEAL AND VERIFIED DIGITAL SIGNATURE WITH DATE TO BE CONSIDERED SIGNED AND SEALED

DRAWING HISTORY

Nr	DATE	DESCRIPTION
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
STOREFRONT / WINDOW WALL DETAILS

SHEET NUMBER
A0.42

GENERAL INTERIOR SIGNAGE NOTES:

1. BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT, IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8 IN. MIN. FROM ANY OTHER TACTILE CHARACTERS, RAISED BORDERS, AND DECORATIVE ELEMENTS. FBC ACCESSIBILITY - 703.3.2
2. PICTOGRAMS SHALL HAVE A FIELD HEIGHT OF 6 IN. MIN. CHARACTERS AND BRAILLE SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD. FBC ACCESSIBILITY- 703.6
3. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. ALL SIGNAGE TO BE MECHANICALLY FASTENED TO PARTITIONS.
5. SIGNAGE MOUNTED TO GLASS; SHALL HAVE A BRUSHED ALUMINUM BACKER PLATE MOUNTED ON ROOM SIDE.
6. SIGNS WITHIN PUBLIC AREAS AND SECURED HOLDING AREAS SHALL USE TAMPER RESISTANT FASTENERS AND ADHESIVE.



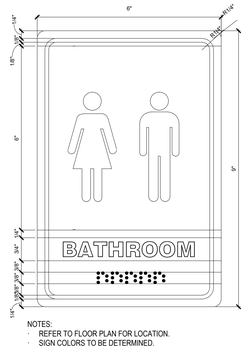
1/16" THICK CLEAR MATTE FINISH PLASTIC, 1/8" WIDE SUB SURFACE SILK SCREENED PERIMETER BORDER, BACK PAINTED. 3/4" HIGH x 1/32" RAISED, HELVETICA MEDIUM NUMBERS & UPPER/LOWER CASE LETTERS. GRADE II BRAILLE.

1/16" THICK PLASTIC BACK PLATE. PANEL TAPED WITH DOUBLE SIDED FOAM TAPE.

47/8" x 7 3/4" x 0.080 ALUMINUM SHIM PLATE PREPARED WITH COUNTERSUNK SCREW HOLES. FASTENERS AND ANCHORS BY INSTALLER.

NOTES:
- REFER TO FLOOR PLAN FOR LOCATION.
- SIGN COLORS TO BE DETERMINED.

SIGN TYPE F2 | 6" = 1'-0" (12)



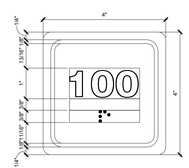
1/16" THICK CLEAR MATTE FINISH PLASTIC, 1/8" WIDE SUB SURFACE SILK SCREENED PERIMETER BORDER, BACK PAINTED. 3/4" HIGH x 1/32" RAISED, HELVETICA MEDIUM UPPER CASE LETTERS. 3" HIGH x 1/32" RAISED SYMBOLS GRADE II BRAILLE.

1/16" THICK PLASTIC BACK PLATE. PANEL TAPED WITH DOUBLE SIDED FOAM TAPE.

6 1/2" x 81/2" x 0.080 ALUMINUM SHIM PLATE PREPARED WITH COUNTERSUNK SCREW HOLES. FASTENERS AND ANCHORS BY INSTALLER.

NOTES:
- REFER TO FLOOR PLAN FOR LOCATION.
- SIGN COLORS TO BE DETERMINED.

SIGN TYPE C3 | 6" = 1'-0" (8)



1/16" THICK CLEAR MATTE FINISH PLASTIC, 1/8" WIDE SUB SURFACE SILK SCREENED PERIMETER BORDER, BACK PAINTED. 3/4" HIGH x 1/32" RAISED, HELVETICA MEDIUM UPPER CASE LETTERS. 4" HIGH x 1/32" RAISED SYMBOLS. GRADE II BRAILLE.

1/16" THICK PLASTIC BACK PLATE. PANEL TAPED WITH DOUBLE SIDED FOAM TAPE.

3 1/2" x 41/2" x 0.080 ALUMINUM SHIM PLATE PREPARED WITH COUNTERSUNK SCREW HOLES. FASTENERS AND ANCHORS BY INSTALLER.

NOTES:
- REFER TO FLOOR PLAN FOR LOCATION.
- SIGN COLORS TO BE DETERMINED
- CELL SIGNAGE "CELL XX"

SIGN TYPE A4 | 6" = 1'-0" (4)



1/16" THICK CLEAR MATTE FINISH PLASTIC, 1/8" WIDE SUB SURFACE SILK SCREENED PERIMETER BORDER, BACK PAINTED. 3/4" HIGH x 1/32" RAISED, HELVETICA MEDIUM NUMBERS & UPPER/LOWER CASE LETTERS. GRADE II BRAILLE.

1/16" THICK PLASTIC BACK PLATE. PANEL TAPED WITH DOUBLE SIDED FOAM TAPE.

47/8" x 7 3/4" x 0.080 ALUMINUM SHIM PLATE PREPARED WITH COUNTERSUNK SCREW HOLES. FASTENERS AND ANCHORS BY INSTALLER.

NOTES:
- REFER TO FLOOR PLAN FOR LOCATION.
- SIGN COLORS TO BE DETERMINED.

SIGN TYPE F1 | 6" = 1'-0" (11)



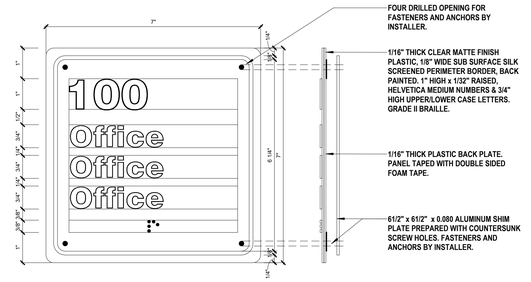
1/16" THICK CLEAR MATTE FINISH PLASTIC, 1/8" WIDE SUB SURFACE SILK SCREENED PERIMETER BORDER, BACK PAINTED. 3/4" HIGH x 1/32" RAISED, HELVETICA MEDIUM UPPER CASE LETTERS. 3" HIGH x 1/32" RAISED SYMBOLS GRADE II BRAILLE.

1/16" THICK PLASTIC BACK PLATE. PANEL TAPED WITH DOUBLE SIDED FOAM TAPE.

61/2" x 81/2" x 0.080 ALUMINUM SHIM PLATE PREPARED WITH COUNTERSUNK SCREW HOLES. FASTENERS AND ANCHORS BY INSTALLER.

NOTES:
- REFER TO FLOOR PLAN FOR LOCATION.
- SIGN COLORS TO BE DETERMINED.

SIGN TYPE C2 | 6" = 1'-0" (7)



FOUR DRILLED OPENING FOR FASTENERS AND ANCHORS BY INSTALLER.

1/16" THICK CLEAR MATTE FINISH PLASTIC, 1/8" WIDE SUB SURFACE SILK SCREENED PERIMETER BORDER, BACK PAINTED. 1" HIGH x 1/32" RAISED, HELVETICA MEDIUM NUMBERS & 3/4" HIGH UPPER/LOWER CASE LETTERS. GRADE II BRAILLE.

1/16" THICK PLASTIC BACK PLATE. PANEL TAPED WITH DOUBLE SIDED FOAM TAPE.

61/2" x 61/2" x 0.080 ALUMINUM SHIM PLATE PREPARED WITH COUNTERSUNK SCREW HOLES. FASTENERS AND ANCHORS BY INSTALLER.

NOTES:
- REFER TO FLOOR PLAN FOR NUMBER AND ROOM NAME.
- SIGN COLORS TO BE DETERMINED.
- FIRE COMMAND ROOM SIGN TO BE RED WITH WHITE LETTERS.

SIGN TYPE A3 | 6" = 1'-0" (3)



1/16" THICK CLEAR MATTE FINISH PLASTIC, 1/8" WIDE SUB SURFACE SILK SCREENED PERIMETER BORDER, BACK PAINTED. 3/4" HIGH x 1/32" RAISED, HELVETICA MEDIUM NUMBERS & UPPER/LOWER CASE LETTERS. GRADE II BRAILLE.

1/16" THICK PLASTIC BACK PLATE. PANEL TAPED WITH DOUBLE SIDED FOAM TAPE.

61/2" x 47/8" x 0.080 ALUMINUM SHIM PLATE PREPARED WITH COUNTERSUNK SCREW HOLES. FASTENERS AND ANCHORS BY INSTALLER.

NOTES:
- REFER TO FLOOR PLAN FOR LOCATION.
- SIGN COLORS TO BE DETERMINED.

SIGN TYPE D | 6" = 1'-0" (10)

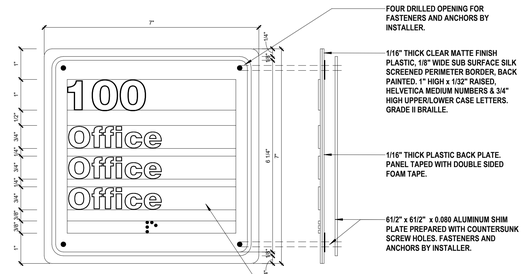
1/16" THICK CLEAR MATTE FINISH PLASTIC, 1/8" WIDE SUB SURFACE SILK SCREENED PERIMETER BORDER, BACK PAINTED. 3/4" HIGH x 1/32" RAISED, HELVETICA MEDIUM UPPER CASE LETTERS. 3" HIGH x 1/32" RAISED SYMBOLS GRADE II BRAILLE.

1/16" THICK PLASTIC BACK PLATE. PANEL TAPED WITH DOUBLE SIDED FOAM TAPE.

61/2" x 81/2" x 0.080 ALUMINUM SHIM PLATE PREPARED WITH COUNTERSUNK SCREW HOLES. FASTENERS AND ANCHORS BY INSTALLER.

NOTES:
- REFER TO FLOOR PLAN FOR NUMBER AND ROOM NAME.
- SIGN COLORS TO BE DETERMINED.
- OFFICE SIGNAGE TYPE

SIGN TYPE C1 | 6" = 1'-0" (6)



FOUR DRILLED OPENING FOR FASTENERS AND ANCHORS BY INSTALLER.

1/16" THICK CLEAR MATTE FINISH PLASTIC, 1/8" WIDE SUB SURFACE SILK SCREENED PERIMETER BORDER, BACK PAINTED. 1" HIGH x 1/32" RAISED, HELVETICA MEDIUM NUMBERS & 3/4" HIGH UPPER/LOWER CASE LETTERS. GRADE II BRAILLE.

1/16" THICK PLASTIC BACK PLATE. PANEL TAPED WITH DOUBLE SIDED FOAM TAPE.

61/2" x 61/2" x 0.080 ALUMINUM SHIM PLATE PREPARED WITH COUNTERSUNK SCREW HOLES. FASTENERS AND ANCHORS BY INSTALLER.

SLIDER DISPLAY FOR NAME PLATE

NOTES:
- REFER TO FLOOR PLAN FOR NUMBER AND ROOM NAME.
- SIGN COLORS TO BE DETERMINED.
- OFFICE SIGNAGE TYPE

SIGN TYPE A2 | 6" = 1'-0" (2)



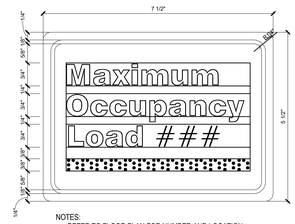
1/16" THICK CLEAR MATTE FINISH PLASTIC, 1/8" WIDE SUB SURFACE SILK SCREENED PERIMETER BORDER, BACK PAINTED. 3/4" HIGH x 1/32" RAISED, HELVETICA MEDIUM UPPER CASE LETTERS. 3" HIGH x 1/32" RAISED SYMBOLS GRADE II BRAILLE.

1/16" THICK PLASTIC BACK PLATE. PANEL TAPED WITH DOUBLE SIDED FOAM TAPE.

61/2" x 81/2" x 0.080 ALUMINUM SHIM PLATE PREPARED WITH COUNTERSUNK SCREW HOLES. FASTENERS AND ANCHORS BY INSTALLER.

NOTES:
- REFER TO FLOOR PLAN FOR LOCATION.
- SIGN COLORS TO BE DETERMINED.

SIGN TYPE C4 | 6" = 1'-0" (9)



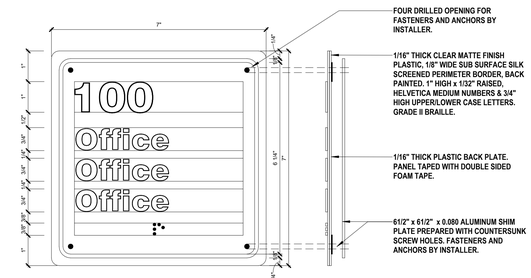
1/16" THICK CLEAR MATTE FINISH PLASTIC, 1/8" WIDE SUB SURFACE SILK SCREENED PERIMETER BORDER, BACK PAINTED. 3/4" HIGH x 1/32" RAISED, HELVETICA MEDIUM NUMBERS & UPPER/LOWER CASE LETTERS. GRADE II BRAILLE.

1/16" THICK PLASTIC BACK PLATE. PANEL TAPED WITH DOUBLE SIDED FOAM TAPE.

47/8" x 63/4" x 0.080 ALUMINUM SHIM PLATE PREPARED WITH COUNTERSUNK SCREW HOLES. FASTENERS AND ANCHORS BY INSTALLER.

NOTES:
- REFER TO FLOOR PLAN FOR NUMBER AND LOCATION.
- SIGN COLORS TO BE DETERMINED.

SIGN TYPE B | 6" = 1'-0" (5)



FOUR DRILLED OPENING FOR FASTENERS AND ANCHORS BY INSTALLER.

1/16" THICK CLEAR MATTE FINISH PLASTIC, 1/8" WIDE SUB SURFACE SILK SCREENED PERIMETER BORDER, BACK PAINTED. 1" HIGH x 1/32" RAISED, HELVETICA MEDIUM NUMBERS & 3/4" HIGH UPPER/LOWER CASE LETTERS. GRADE II BRAILLE.

1/16" THICK PLASTIC BACK PLATE. PANEL TAPED WITH DOUBLE SIDED FOAM TAPE.

61/2" x 61/2" x 0.080 ALUMINUM SHIM PLATE PREPARED WITH COUNTERSUNK SCREW HOLES. FASTENERS AND ANCHORS BY INSTALLER.

NOTES:
- REFER TO FLOOR PLAN FOR NUMBER AND ROOM NAME.
- SIGN COLORS TO BE DETERMINED.
- FIRE COMMAND ROOM SIGN TO BE RED WITH WHITE LETTERS.

SIGN TYPE A1 | 6" = 1'-0" (1)

CLIENT

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JOBY L. BALINT, AIA AR-0016653

DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

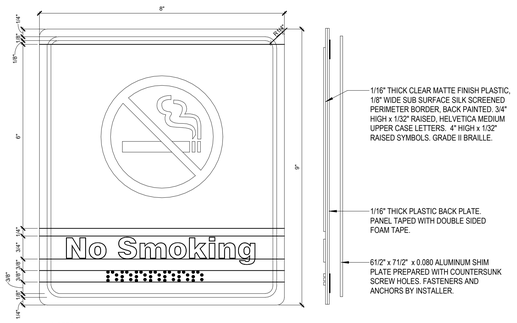
PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER
1007657.00

SHEET TITLE
INTERIOR SIGNAGE TYPE AND DETAILS

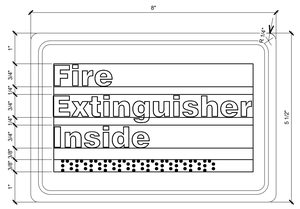
SHEET NUMBER
A0.60

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
DATE STAMP: 10/24/2025 1:33:11 PM



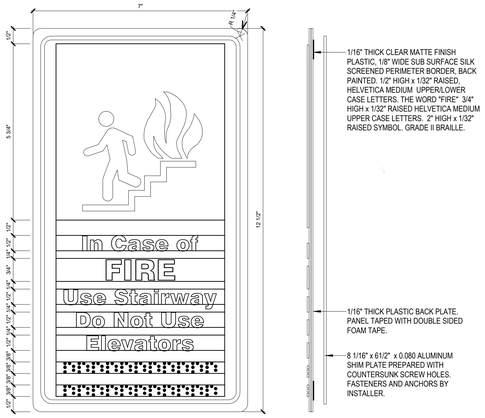
NOTES:
- REFER TO FLOOR PLAN FOR GENDER AND LOCATION.
- SIGN COLORS TO BE DETERMINED.

SIGN TYPE N | 6" = 1'-0" | 8



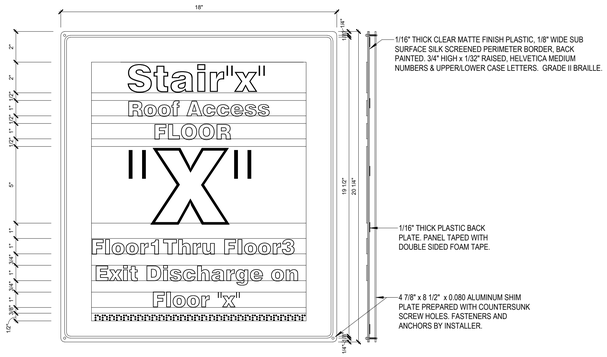
NOTES:
- REFER TO FLOOR PLAN FOR NUMBER AND ROOM NAME.
- SIGN COLORS TO BE DETERMINED.

SIGN TYPE H | 6" = 1'-0" | 7



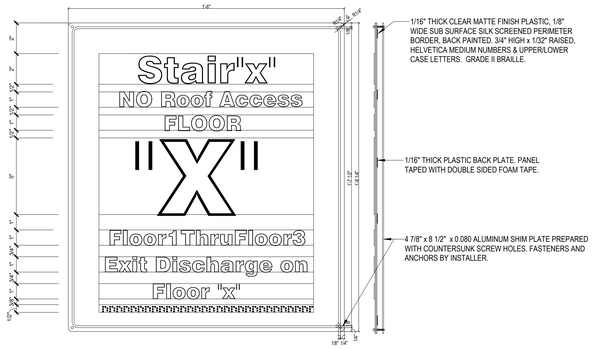
NOTES:
- REFER TO FLOOR PLAN FOR LOCATIONS..
- SIGN COLORS TO BE DETERMINED.

SIGN TYPE J | 6" = 1'-0" | 6



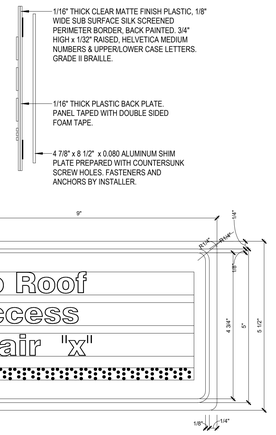
NOTES:
- REFER TO FLOOR PLAN FOR NUMBER AND LOCATION.
- SIGN COLORS TO BE DETERMINED.
- FLOOR "X" ON SIGN TO BE EDITED TO REFLECT LOCATION TO WHERE STAIR EGRESSES AT. STAIRS THAT EGRESS TO GROUND LEVEL SHOULD BE "AT GROUND LEVEL". STAIRS THAT EGRESS TO LEVEL 1 SHOULD READ " AT 1ST LEVEL"

SIGN TYPE L2 | 3" = 1'-0" | 5



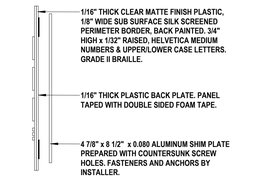
NOTES:
- REFER TO FLOOR PLAN FOR NUMBER AND LOCATION.
- SIGN COLORS TO BE DETERMINED.
- FLOOR "X" ON SIGN TO BE EDITED TO REFLECT LOCATION TO WHERE STAIR EGRESSES AT. STAIRS THAT EGRESS TO GROUND LEVEL SHOULD BE "AT GROUND LEVEL". STAIRS THAT EGRESS TO LEVEL 1 SHOULD READ " AT 1ST LEVEL"

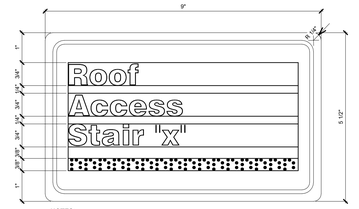
SIGN TYPE L1 | 3" = 1'-0" | 4



NOTES:
- REFER TO FLOOR PLAN FOR NUMBER AND LOCATION.
- SIGN COLORS TO BE DETERMINED.
- REFER TO LIFE SAFETY SHEET LS0.0.10 FOR FURTHER INFORMATION.

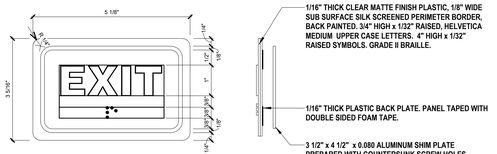
SIGN TYPE L4 | 6" = 1'-0" | 3





NOTES:
- REFER TO FLOOR PLAN FOR NUMBER AND LOCATION.
- SIGN COLORS TO BE DETERMINED.
- REFER TO LIFE SAFETY SHEET LS0.0.10 FOR FURTHER INFORMATION.

SIGN TYPE L3 | 6" = 1'-0" | 2



NOTES:
- REFER TO FLOOR PLAN FOR ADDITIONAL INFORMATION
- SIGN COLORS TO BE DETERMINED
- SIGN TO BE LOCATED ADJACENT TO THE FOLLOWING DOORS: STAIRWELL DOORS ON CORRIDOR SIDE AT UPPER FLOORS AND STAIRWELL SIDE AT THE GROUND FLOOR ONLY; GROUND FLOOR DOORS THAT EGRESS TO THE EXTERIOR

SIGN TYPE K | 6" = 1'-0" | 1

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AR0016653
REGISTERED ARCHITECT

JOBY L. BALINT, AIA AR-0016653

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CONSULTANT

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DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER

1007657.00

SHEET TITLE

INTERIOR SIGNAGE TYPE AND DETAILS

SHEET NUMBER

A0.61

FILE NAME: Autodesk Docs://_1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
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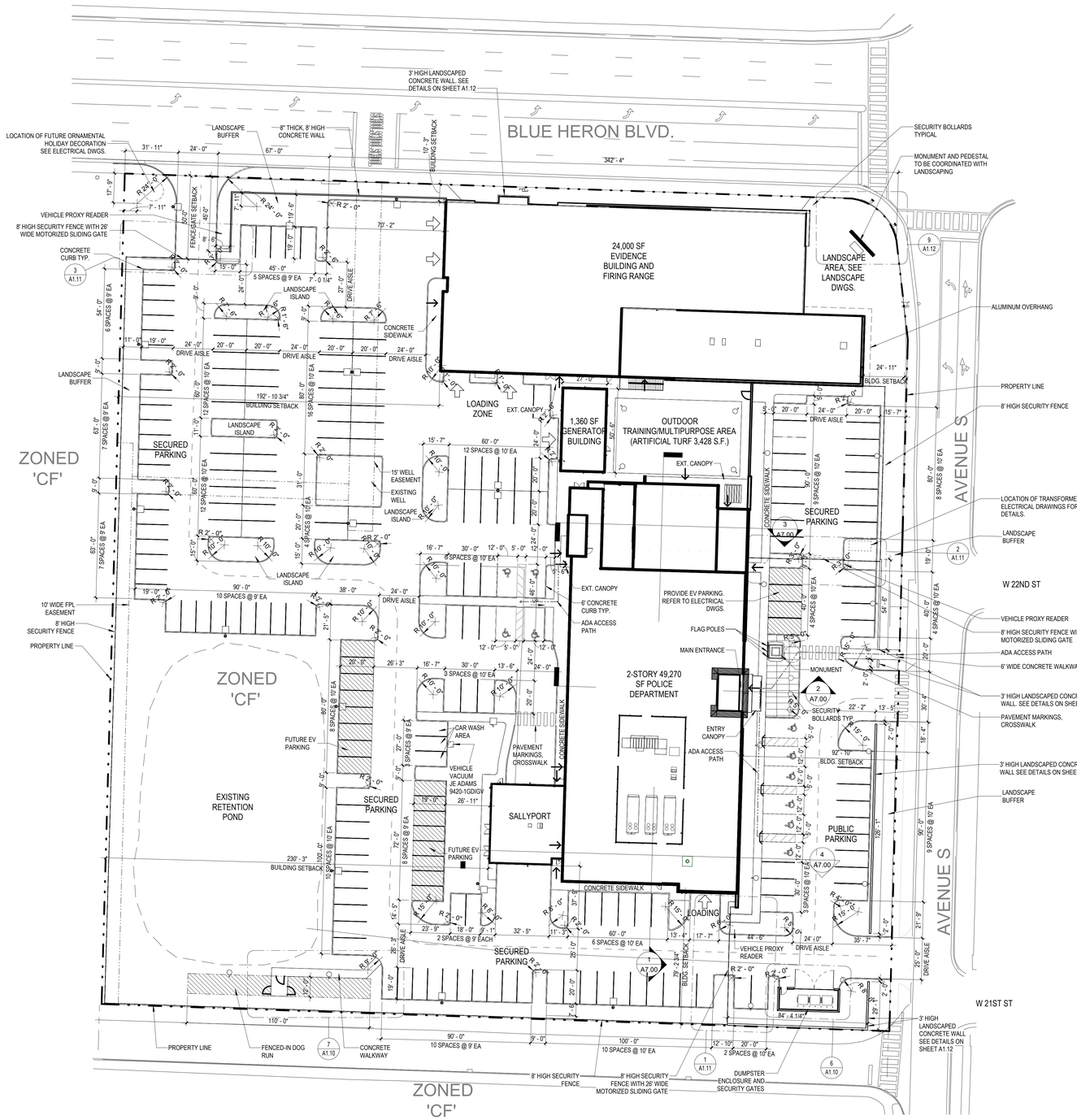


SITE PLAN | 1" = 30'-0" (2)

SITE PLAN NOTES

1. DO NOT SCALE DRAWINGS, CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATIONS OR MISSING DIMENSIONS BEFORE CONTINUING WITH CONSTRUCTION.
2. FINISH FLOOR ELEVATION (FFE) IS SHOWN AS 0'-0" WITHIN THE ARCHITECTURAL DRAWINGS; REFER TO CIVIL DRAWINGS FOR ACTUAL FFE.
3. REFER TO TOPOGRAPHIC SURVEY FOR ADDITIONAL INFORMATION.
4. CONTRACTOR SHALL FIELD VERIFY ALL SITE CONDITIONS PRIOR TO COMMENCING WORK.
5. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFORMATION IN WRITING BEFORE EXECUTION OF WORK.
6. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL SITE INFORMATION AND LIGHTING.
7. REFER TO CIVIL AND LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION; BUT NOT LIMITED TO, WATER, SEWER, PAVING, GRADING, DRAINAGE, PLANTINGS, IRRIGATION, ETC.
8. PROVIDE TERMITE PROTECTION PER 2023 FBC-BUILDING SECTIONS 105.10. 105.11 AND 1816 IN THE FORM OF SOIL TREATMENT BY A FLORIDA LICENSED PEST CONTROL COMPANY USING 'REGISTERED TERMITICIDE'. PROVIDE 3-YEAR WARRANTY FROM DATE OF SUBSTANTIAL COMPLETION. PROVIDE PRODUCT DATA, CERTIFICATES, AND SOIL TREATMENT APPLICATION REPORT FOR REVIEW BY ARCHITECT.

SITE DATA

LAND USE DESIGNATION:	REC - RECREATIONAL		
LAND USE PROPOSED	CF - COMMUNITY FACILITIES		
ZONING CLASSIFICATION:	CF - COMMUNITY FACILITY DISTRICT		
FLOOD ZONE:	X		
	REQUIRED	**PROVIDED**	**%**
LOT AREA:		5.42 ACRES 236,375 S.F.	
IMPERVIOUS AREA:		169,474 S.F.	72%
PERVIOUS AREA:		66,901 S.F.	28%
BUILDING COVERAGE			
POLICE DEPARTMENT:		49,270 S.F.	
EVIDENCE BUILDING & FIRING RANGE:		24,000 S.F.	
GENERATOR BUILDING:		1,360 S.F.	
TOTAL:		**74,630 S.F.**	31%
OPEN SPACE:		161,745 S.F.	69%
SETBACKS & HEIGHTS (COMMUNITY FACILITIES)			
FRONT:		24'-10"	
SIDE:		9'-10"	
SIDE:		80'-2"	
REAR:			
HEIGHT (BLDG TYP.)		30'-0"	
HIGHEST POINT (TOP OF CUPOLA):		41'-0"	
PARKING			
POLICE DEPARTMENT (1/300 SF) 49,270 S.F.	162	170	
EVIDENCE BUILDING & FIRING RANGE(1/1000 SF) 24,000 S.F.	24	30	
GENERATOR BUILDING (N/A) 1,360 S.F.	N/A	7	
TOTAL:	**187**	**207**	
PARKING STALL SIZE BREAKDOWN			
9'-0" x 19'-0"		58	
10'-0" x 20'-0"		139	
12'-0" x 20'-0" ADA		10	
TOTAL:		**207**	

NOTE: 9'X19' PARKING SPACES ARE ALLOWABLE PER SEC. 31-576. DESIGN STANDARDS (RIVIERA BEACH, FLORIDA - CODE OF ORDINANCES):

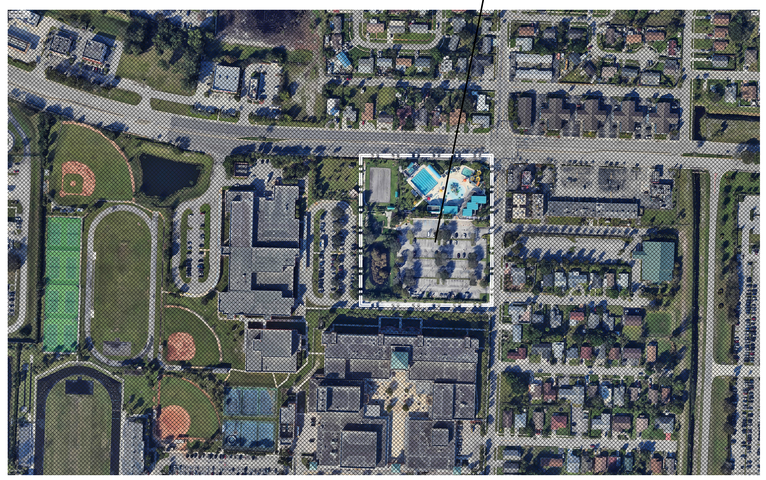
MINIMUM LANDSCAPED AREA REQUIRED PER 9'X19' PARKING BAY

58 QTY (9'X19' SPACES) X 30 SQ FT LANDSCAPED AREA = 1,740 SQ FT REQ.

28% (TOTAL) - 20% (MIN REQUIRED) = (8%) 18,910 SQ FT PROVIDED

TRUE NORTH

0 15'-0" 30'-0" 60'-0"



LOCATION MAP | 12" = 1'-0" (1)

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CONSULTANT

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DATE OF ISSUE
10/14/2025

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RIVIERA BEACH POLICE DEPARTMENT

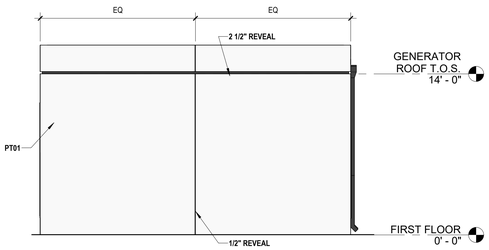
PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

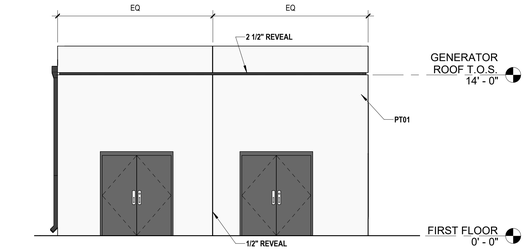
SHEET TITLE
ARCHITECTURAL SITE PLAN

SHEET NUMBER
A1.01

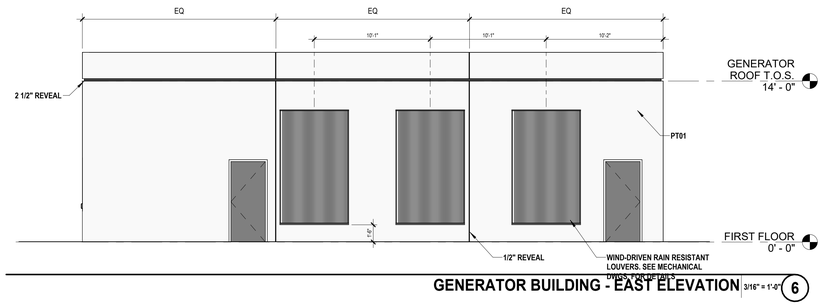
FILE NAME: Autodesk Docs://. 1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
DATE STAMP: 10/24/2025 1:33:35 PM



GENERATOR BUILDING - NORTH ELEVATION 3/16" = 1'-0" (8)

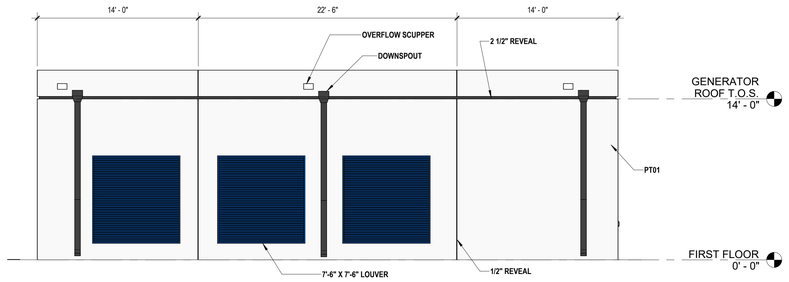


GENERATOR BUILDING - SOUTH ELEVATION 3/16" = 1'-0" (7)

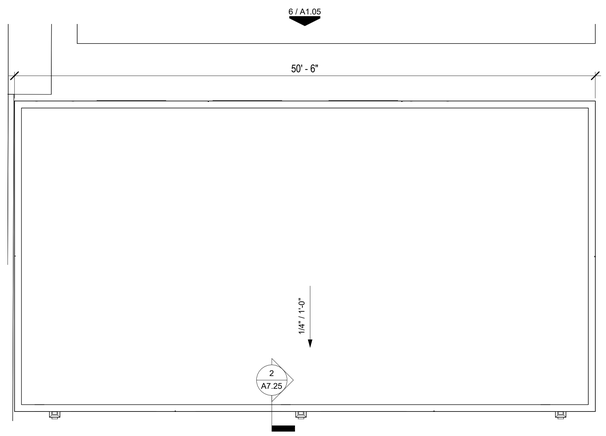


GENERATOR BUILDING - EAST ELEVATION 3/16" = 1'-0" (6)

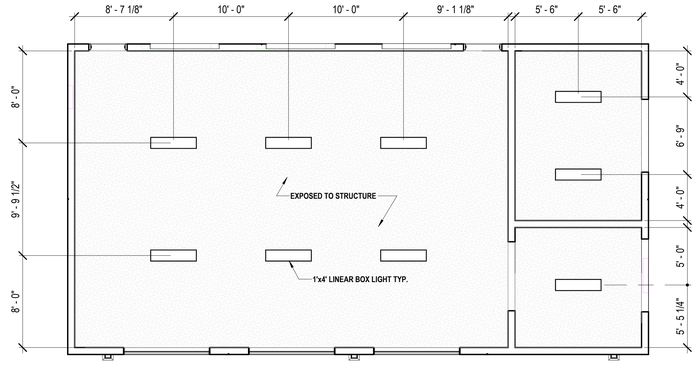
FACADE	GLASS S.F.	WALL S.F.
EAST	0	833
WEST	0	833
SOUTH	0	446
NORTH	0	446
TOTAL	**0**	2,558



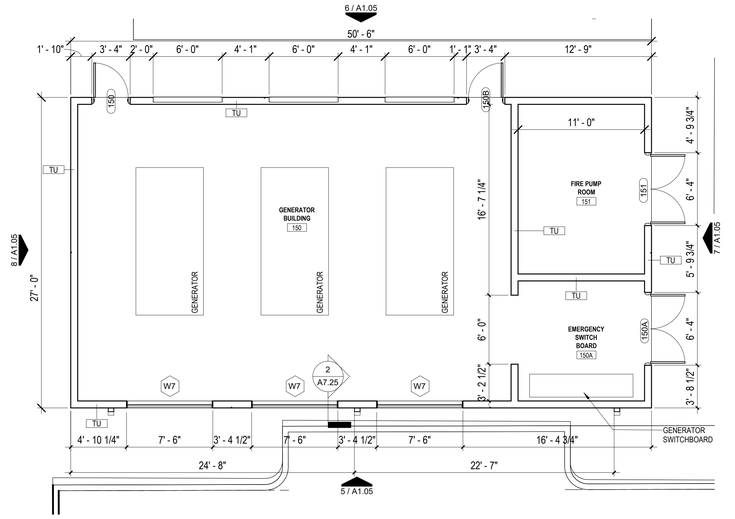
GENERATOR BUILDING - WEST ELEVATION 3/16" = 1'-0" (5)



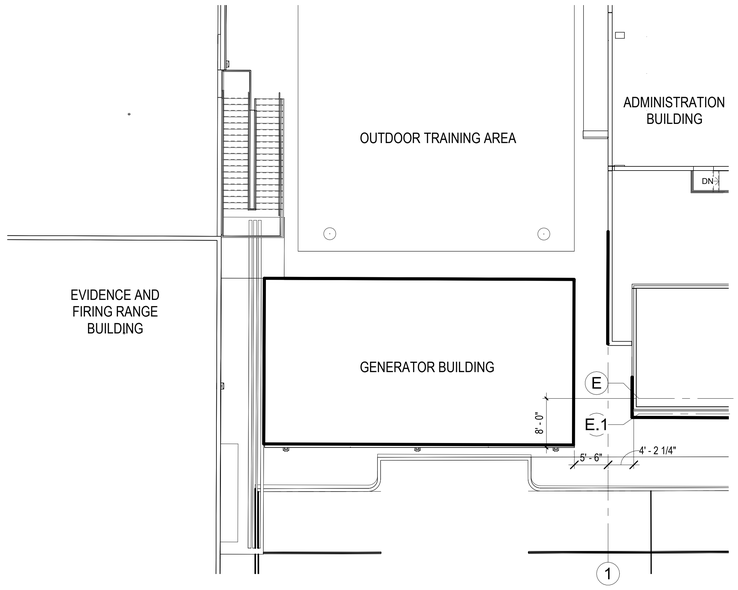
GENERATOR BUILDING ROOF PLAN 3/16" = 1'-0" (4)



GENERATOR BUILDING - REFLECTED CEILING PLAN 3/16" = 1'-0" (3)



GENERATOR BUILDING - FLOOR PLAN 3/16" = 1'-0" (2)



PARTIAL SITE PLAN 1" = 10'-0" (1)

FILE NAME: Autodesk Docs://_1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
DATE STAMP: 10/24/2025 1:33:48 PM

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CONSULTANT

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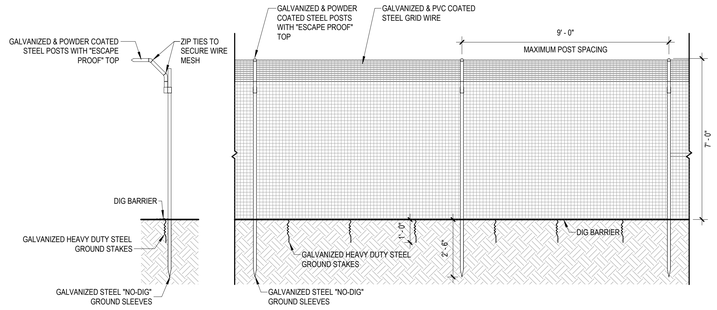
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

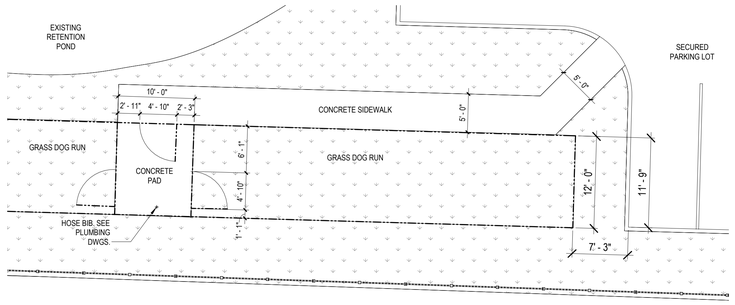
PROJECT NUMBER
1007657.00

SHEET TITLE
GENERATOR BUILDING - PLANS & ELEVATIONS

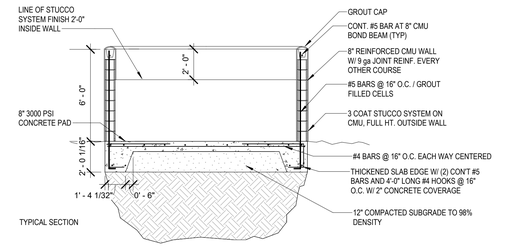
SHEET NUMBER
A1.05



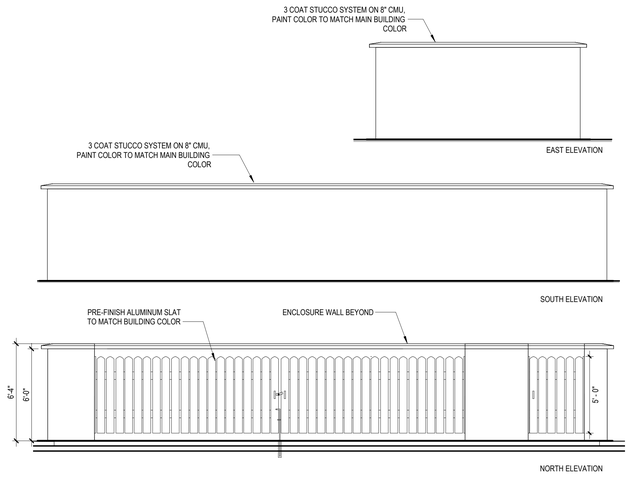
DOG FENCING ELEVATION 3/8" = 1'-0" (11)

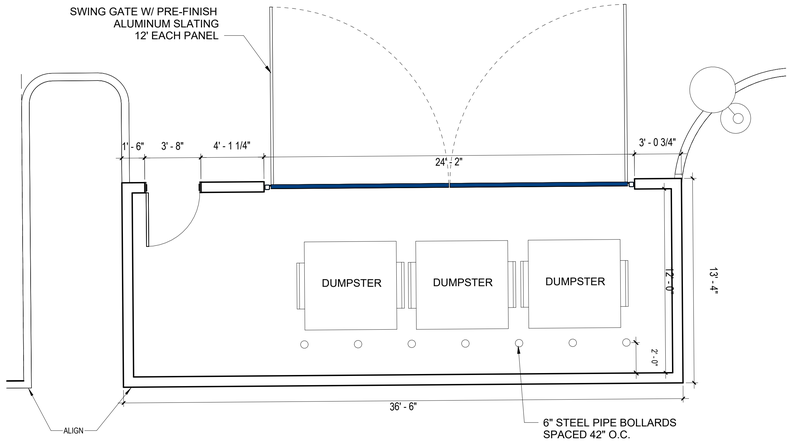


DOG RUN ENLARGED PLAN 1/8" = 1'-0" (7)

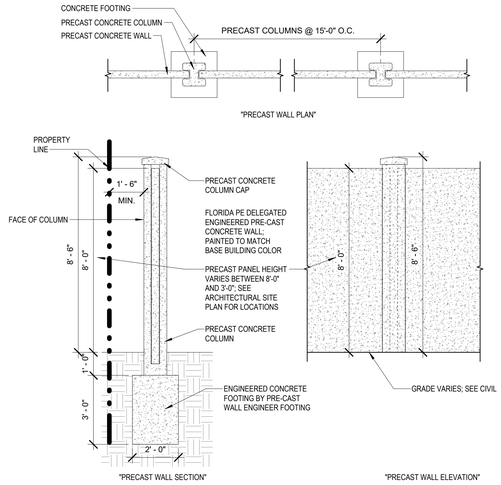


TRASH ENCLOSURE - SECTION DETAIL 1/4" = 1'-0" (3)

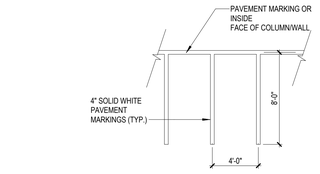




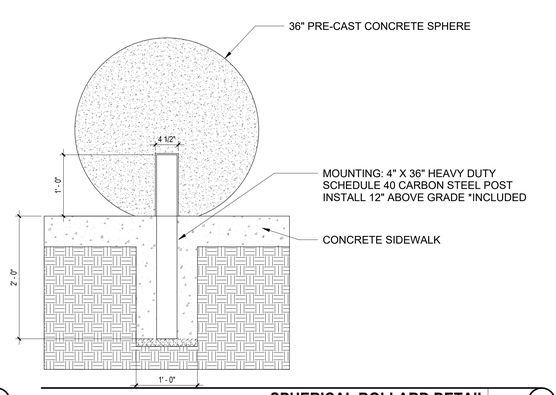
TRASH ENCLOSURE ENLARGED PLAN AND ELEVATIONS 1/4" = 1'-0" (6)



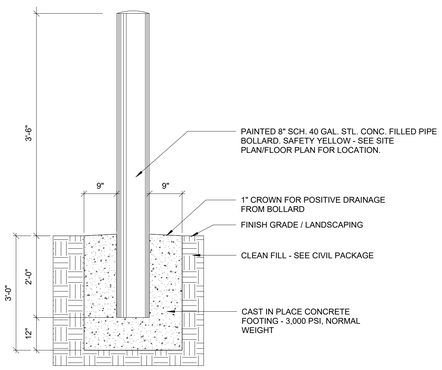
ENGINEERED PRECAST CONCRETE WALL 3/8" = 1'-0" (2)



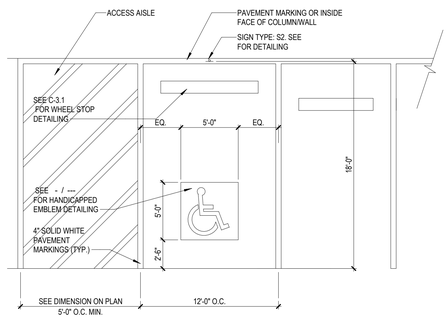
TYP. MOTORCYCLE PARKING SPACE DIMENSIONS 3/16" = 1'-0" (10)



SPHERICAL BOLLARD DETAIL N.T.S. (8)

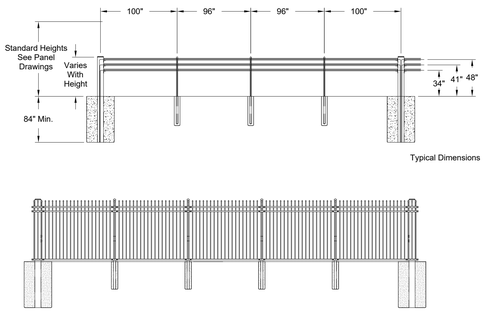


BOLLARD DETAIL N.T.S. (5)



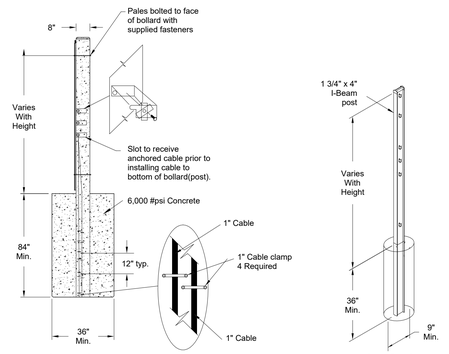
NOTE: PARKING SPACE IDENTIFICATION SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH 703.7.2.1. SIGNS IDENTIFYING VAN SPACES WHEN REQUIRED BY 502.2 SHALL CONTAIN THE DESIGNATION "VAN ACCESSIBLE".

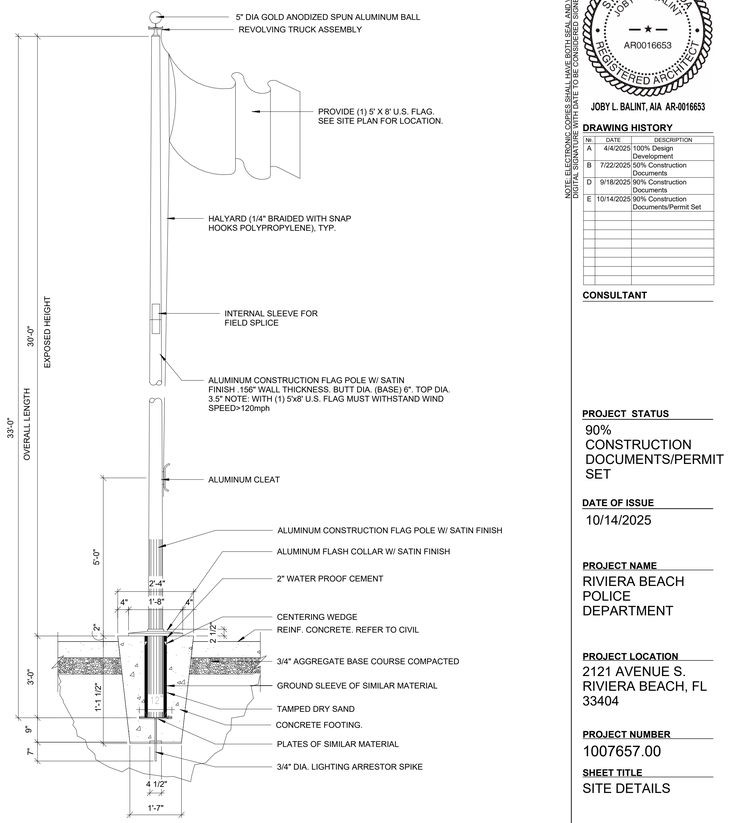
TYP. HANDICAP PARKING SPACE 3/16" = 1'-0" (9)



NOTE: BASIS OF DESIGN FOR SECURITY FENCE AND GATE ALONG AVENUE S AND BLUE HERON IS "FENCE PRODUCTS - STALWART II" OR EQUAL

ANTI-RAM SECURITY FENCE N.T.S. (4)





NOTE:
FLAG POLE TO HAVE GROUND MOUNTED UP LIGHT FIXTURE. SEE ELECTRICAL FOR ADDITIONAL INFORMATION. FLAG POLE WITH 5X8 FLAG TO WITHSTAND WINDSPEED >120MPH.

FLAG POLE DETAIL N.T.S. (1)

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JOBY L. BALINT, AIA AR-0016653

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10/14/2025

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RIVIERA BEACH POLICE DEPARTMENT

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2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER

1007657.00

SHEET TITLE

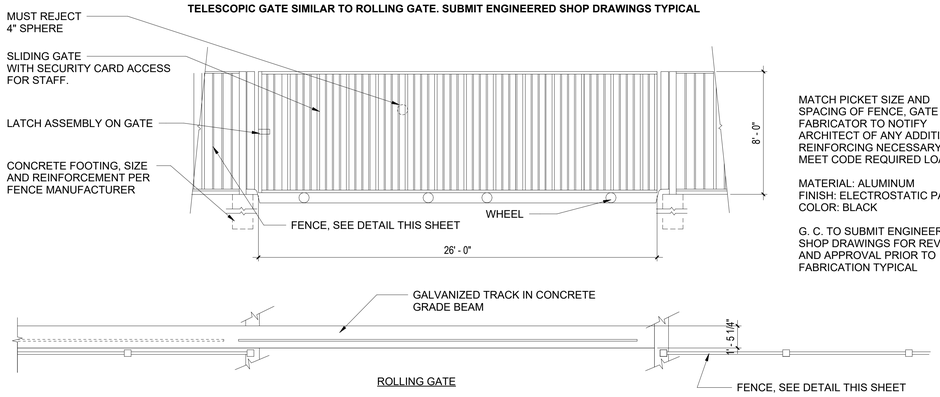
SITE DETAILS

SHEET NUMBER

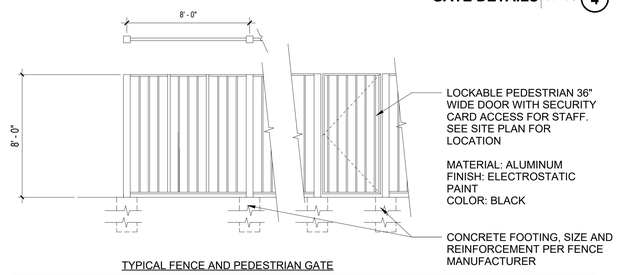
A1.10

FILE NAME: Autodesk Docs://_1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
DATE STAMP: 10/24/2025 1:33:57 PM

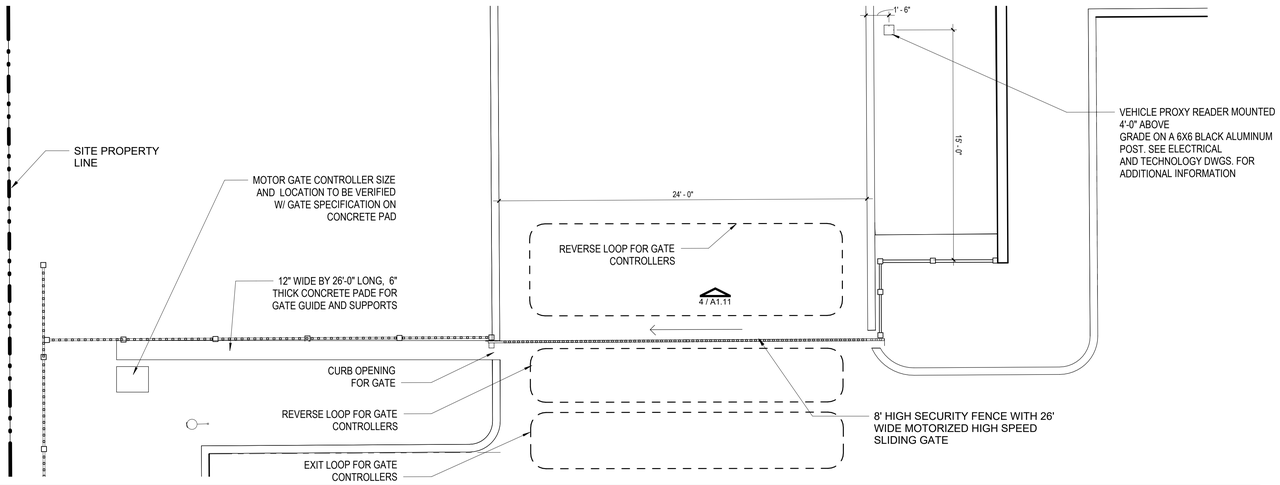
TELESCOPIC GATE SIMILAR TO ROLLING GATE. SUBMIT ENGINEERED SHOP DRAWINGS TYPICAL



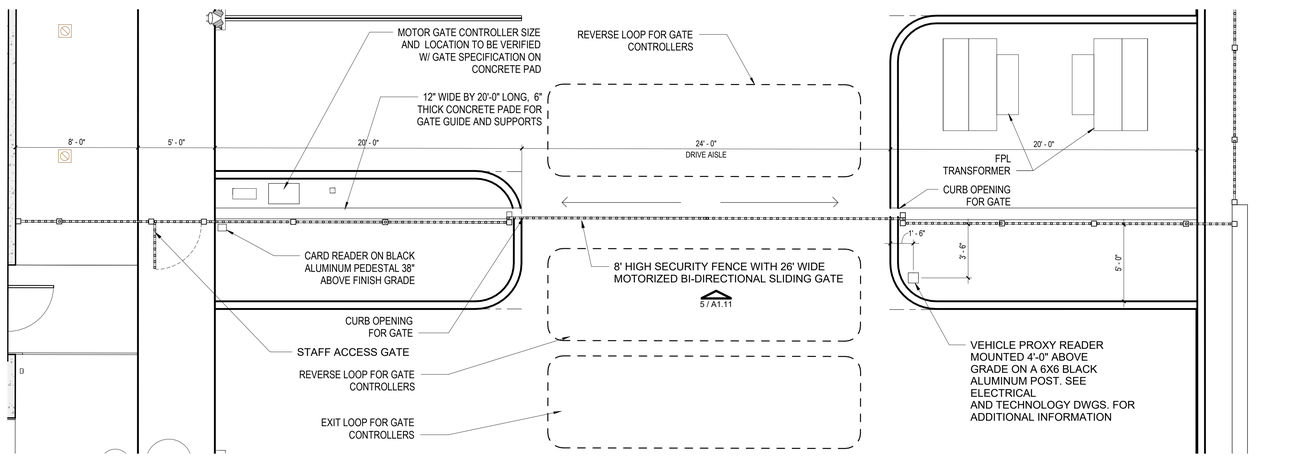
GATE DETAILS 1/4" = 1'-0" 4



FENCE DETAILS 1/4" = 1'-0" 6

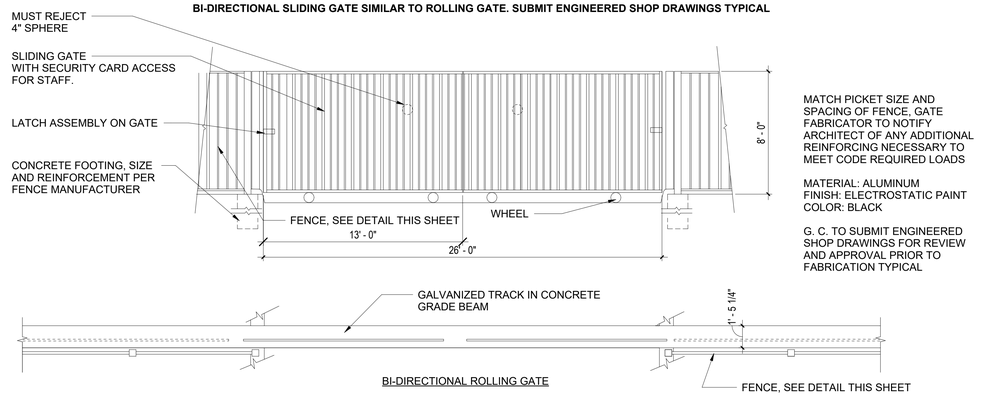


SITE PLAN - ENLARGED NORTHWEST GATE 1/4" = 1'-0" 3

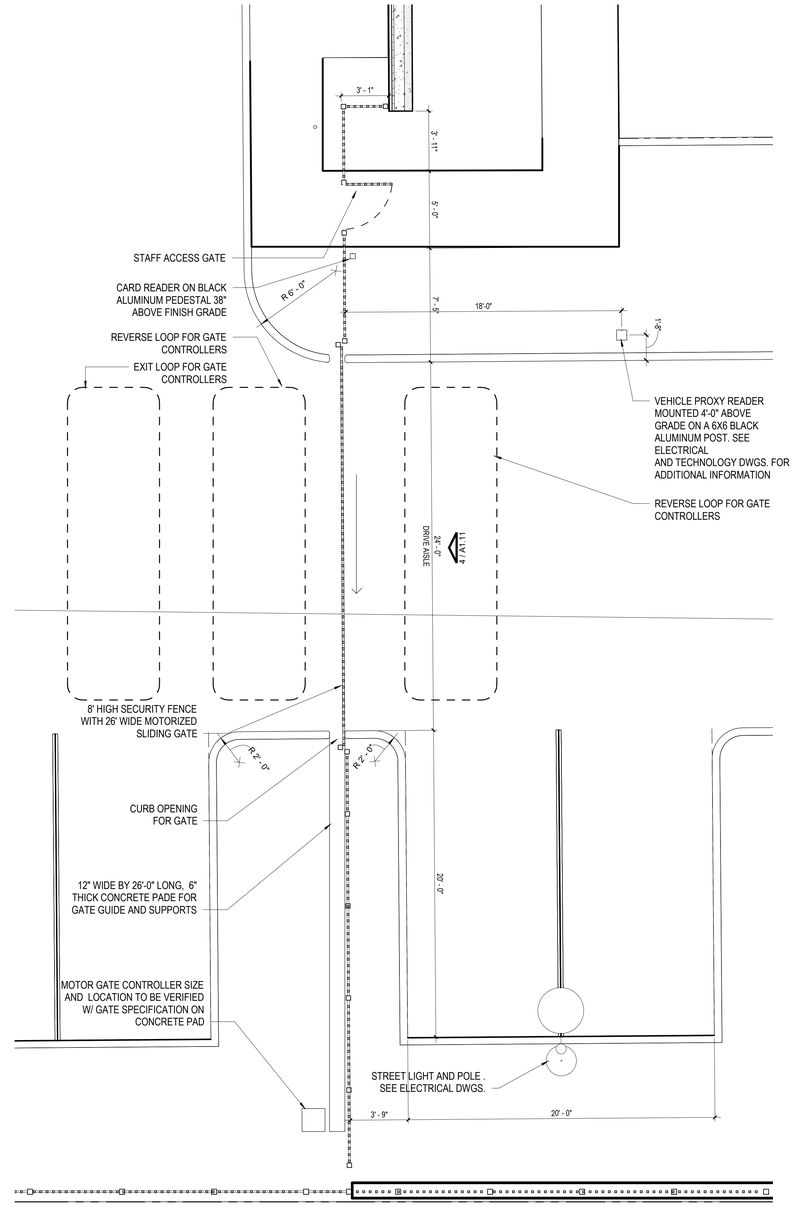


SITE PLAN - ENLARGED NORTHEAST GATE 1/4" = 1'-0" 2

BI-DIRECTIONAL SLIDING GATE SIMILAR TO ROLLING GATE. SUBMIT ENGINEERED SHOP DRAWINGS TYPICAL



BI-DIRECTIONAL GATE DETAILS 1/4" = 1'-0" 5



SITE PLAN - ENLARGED SOUTHEAST GATE 1/4" = 1'-0" 1

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AR0016653
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RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
SITE DETAILS

SHEET NUMBER
A1.11

FILE NAME: Autodesk Docs://_1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
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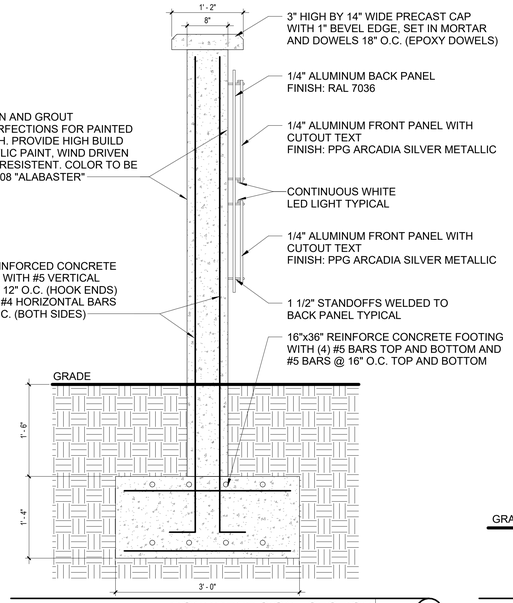
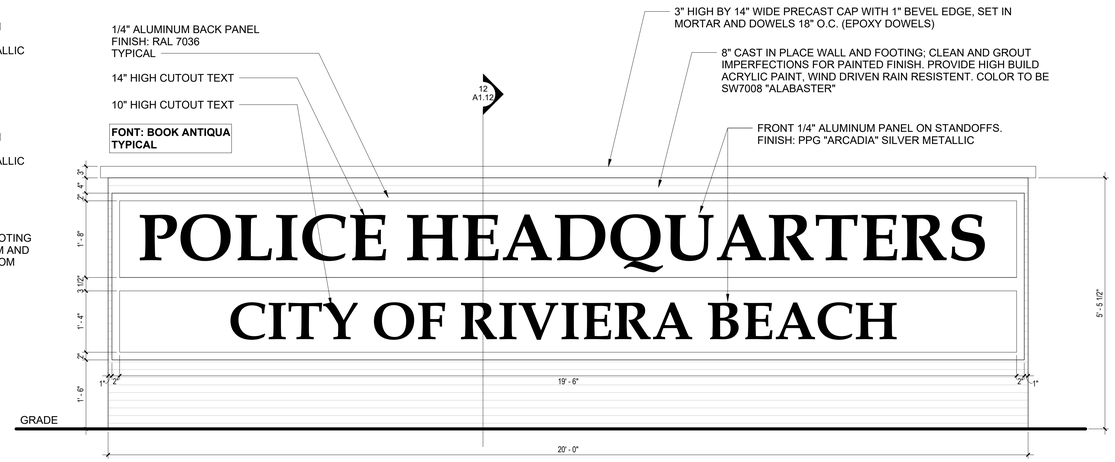
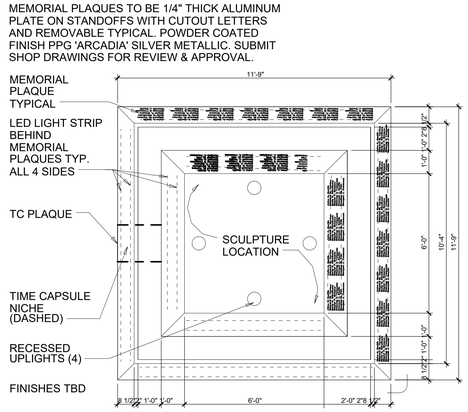


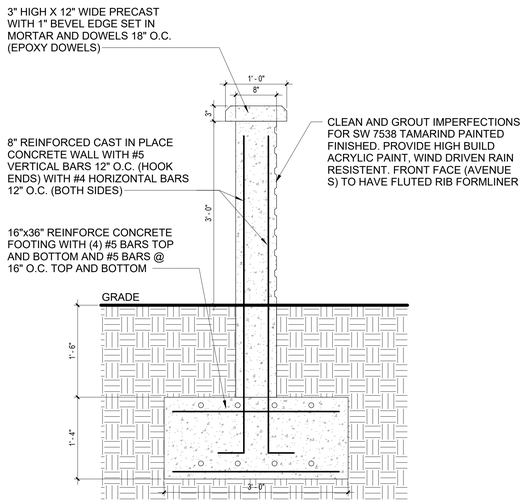
MONUMENT SIGN - SECTION 1" = 1'-0" (12)



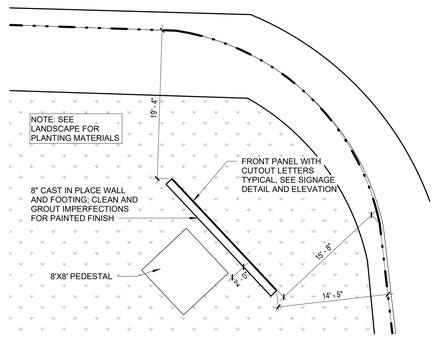
MONUMENT SIGN ELEVATION 3/4" = 1'-0" (7)



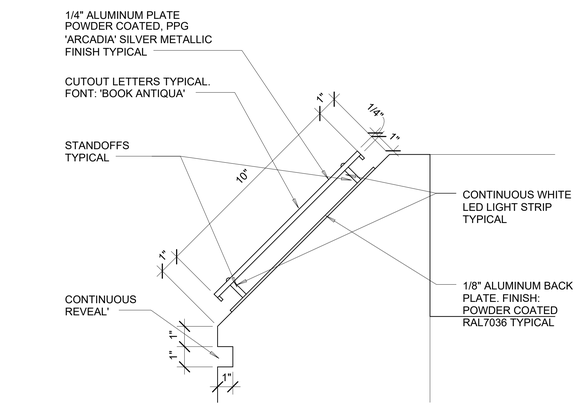
POLICE MONUMENT - PLAN LAYOUT 3/4" = 1'-0" (4)



KNEE WALL DETAIL 1" = 1'-0" (11)

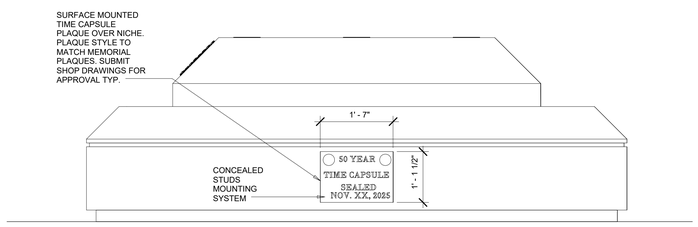


PEDESTAL AND MONUMENT SIGN - PLAN 1/8" = 1'-0" (9)

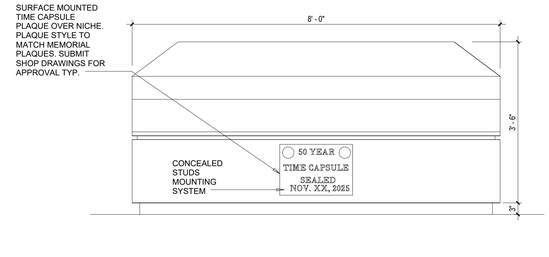


POLICE MONUMENT - PLAQUE DETAIL 3" = 1'-0" (6)

POLICE MONUMENT - PLAQUE LAYOUT 3/4" = 1'-0" (3)

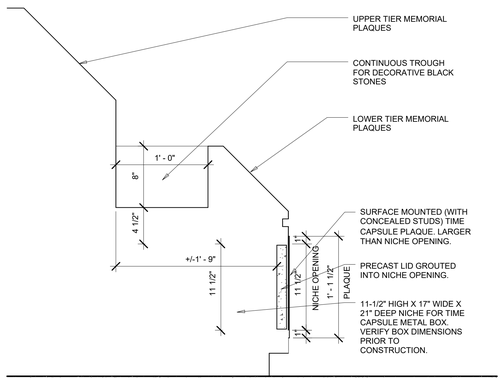


POLICE MONUMENT - ELEVATION 3/4" = 1'-0" (2)

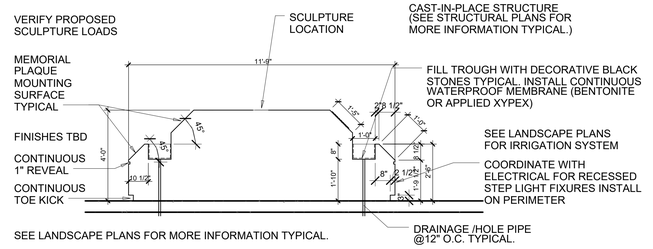


PEDESTAL MOUNTED PROXIMITY READER 1" = 1'-0" (10)

PEDESTAL WITH LIGHTS 3/4" = 1'-0" (8)



POLICE MONUMENT - TIME CAPSULE DETAIL 1 1/2" = 1'-0" (5)



POLICE MONUMENT - SECTION 3/8" = 1'-0" (1)

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DATE STAMP: 10/24/2025 1:34:09 PM

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CONSULTANT

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2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
SITE DETAILS

SHEET NUMBER
A1.12

FLOOR PLAN NOTES

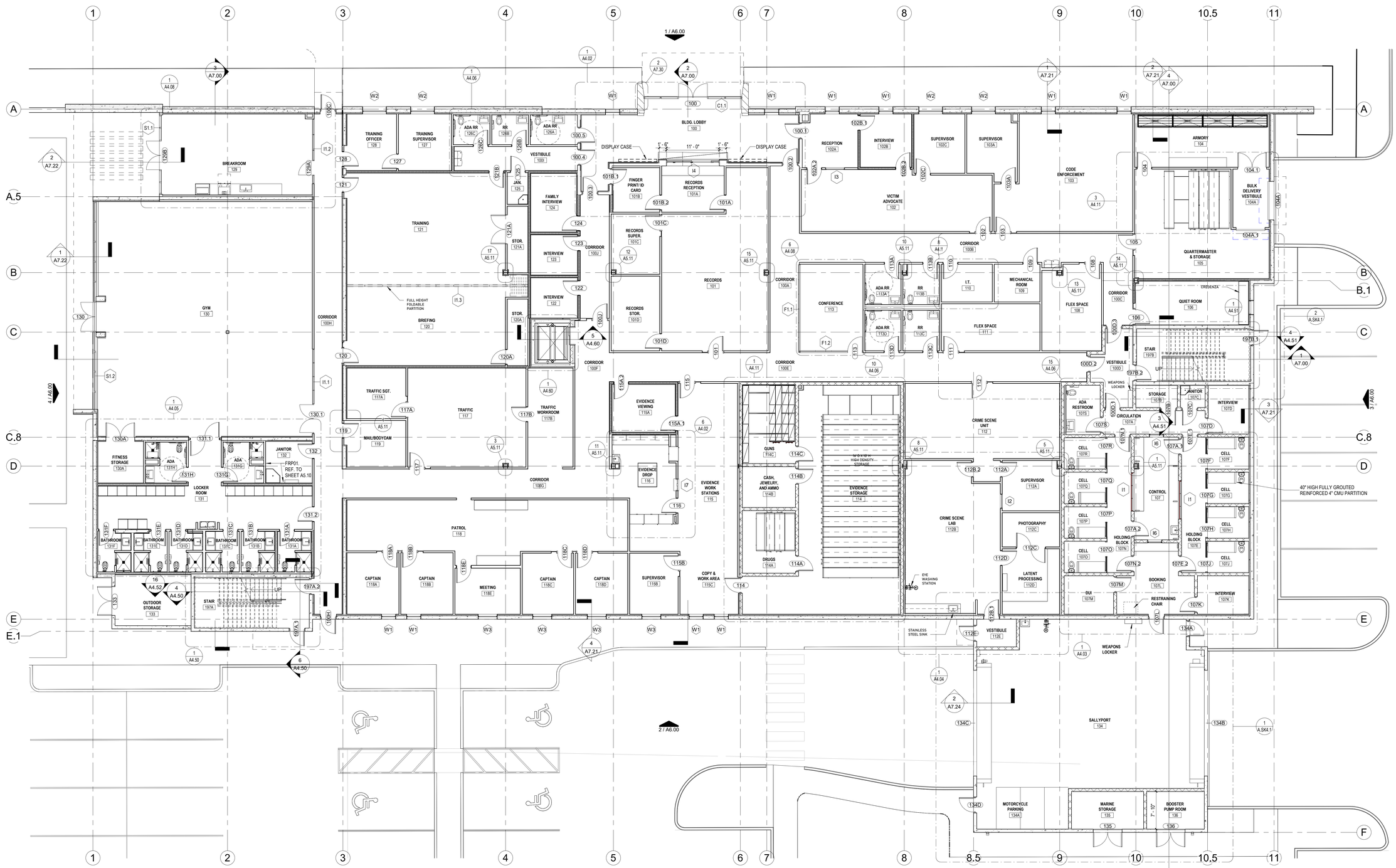
1. ROOM AND DOOR REFERENCE NUMBERS ARE FOR DESIGN AND CONSTRUCTION COORDINATION PURPOSES ONLY.
2. DO NOT SCALE DRAWINGS, CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATIONS OR MISSING DIMENSIONS BEFORE CONTINUING WITH CONSTRUCTION.
3. ALL DIMENSIONS ARE TO FACE OF STUD, GRID LINE OR FACE OF MASONRY.
4. ALL DIMENSIONS NOTED AS "CLEAR" OR "FINISH" ARE TO FACE OF FINISH SURFACE TO MAINTAIN ADA CLEARANCES.
5. FOR FURTHER DIMENSIONS; SEE LARGE SCALE PLANS, INTERIOR ELEVATIONS, EXTERIOR ELEVATIONS, SECTIONS, AND DETAILS.
6. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFORMATION IN WRITING BEFORE EXECUTION OF WORK.
7. REFER TO SHEET G0.02 "GENERAL PROJECT INFORMATION" FOR GENERAL PROJECT GRAPHICS AND ABBREVIATIONS FOR ADDITIONAL INFORMATION.
8. REFER TO SHEET G0.03 AND G0.04 REGARDING "ACCESSIBILITY INFORMATION AND DIAGRAMS" FOR ADDITIONAL INFORMATION.
9. CONTRACTOR SHALL FIELD COORDINATE LOCATION, SIZE AND TYPE OF NON-COMBUSTIBLE BLOCKING FOR INSTALLATION OF SIGNAGE, TOILET ACCESSORIES, HARDWARE, MILLWORK, ETC.
10. ALL CONCEALED WOOD OR EXPOSED PLYWOOD BACKING IN MECHANICAL, ELECTRICAL AND I.T. ROOMS SHALL BE FIRE RETARDANT TREATED (F.R.T).
11. REFER TO LS (LIFE SAFETY) SERIES DRAWINGS FOR ADDITIONAL INFORMATION AND FIRE RATINGS.
12. REFER TO STRUCTURAL FIRE PROTECTION, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

WALL/PARTITION GRAPHIC LEGEND

- X ### — PARTITION TYPE TAG
- CMU W/OUT FURRING
- CMU W/FURRING
- DRYWALL PARTITION
- DRYWALL PARTITION W/ BATT INSULATION
- TILT WALL W/ FURRING
- TILT WALL W/O FURRING

- 02123 — LEVEL / DOOR NUMBER / (RE: DOOR SCHEDULE)
- ROOM / 02132 — ROOM NAME / (RE: ROOM FINISH SCHEDULE) / ROOM NUMBER / LEVEL / SECTOR/AREA
- W12 / A10 — WINDOW TAG / SHEET KEYNOTE
- A235 — PARTITION TYPE (RE: PARTITION SCHEDULE)
- EXTERIOR ELEVATION NUMBER / 01 / A11.01 SHEET NUMBER / SIM REFERENCE
- REFERENCE / 10 / A7.101 SIM — BUILDING SECTION REFERENCE

REFER TO SHEET A0.10 FOR GENERAL PARTITION NOTES AND DETAILS. REFER TO SHEET A0.11 FOR PARTITION TYPE SCHEDULE.



GROUND FLOOR - ANNOTATION PLAN 1/8" = 1'-0" (1)

N

0'-0" 4'-0" 8'-0" 16'-0"

GRAPHIC SCALE

CLIENT

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CONSULTANT

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RIVIERA BEACH, FL
33404

PROJECT NUMBER
1007657.00

SHEET TITLE
GROUND FLOOR ANNOTATION PLAN

SHEET NUMBER
A2.10A

FILE NAME: Autodesk Docs://1007657.00_CORE_City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
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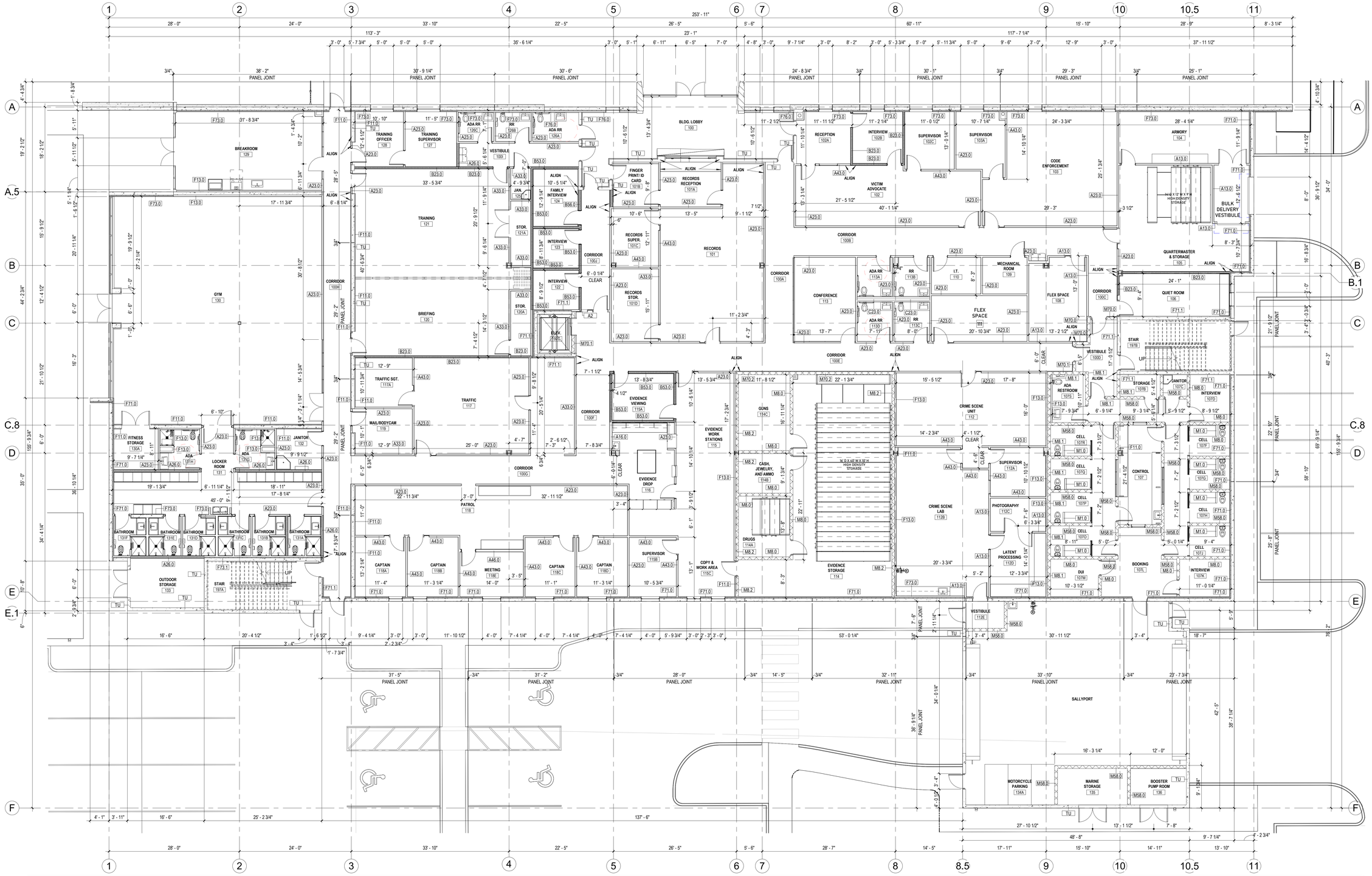
12. REFER TO STRUCTURAL FIRE PROTECTION, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

WALL/PARTITION GRAPHIC LEGEND

- X ### — PARTITION TYPE TAG
- CMU W/OUT FURRING
- CMU W/FURRING
- DRYWALL PARTITION
- DRYWALL PARTITION W/ BATT INSULATION
- TILT WALL W/ FURRING
- TILT WALL W/O FURRING

- 123 — LEVEL; DOOR NUMBER; (RE: DOOR SCHEDULE)
- ROOM 132 — ROOM NAME; (RE: ROOM FINISH SCHEDULE); ROOM NUMBER; LEVEL
- W12 — WINDOW TAG
- A10 — SHEET KEYNOTE
- A200 — PARTITION TYPE (RE: PARTITION SCHEDULE)
- EXTERIOR ELEVATION NUMBER; 01 / A11.01 SIM — SHEET NUMBER; REFERENCE
- 10 / A7.101 SIM — REFERENCE; BUILDING SECTION REFERENCE

REFER TO SHEET A0.10 FOR GENERAL PARTITION NOTES AND DETAILS. REFER TO SHEET A0.11 FOR PARTITION TYPE SCHEDULE.



N

0'-0" 4'-0" 8'-0" 16'-0"
GRAPHIC SCALE

GROUND FLOOR DIMENSION PLAN 1/8" = 1'-0" (1)

CLIENT

CITY OF RIVIERA BEACH
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JOBY L. BALINT
AR0016653
REGISTERED ARCHITECT

JOBY L. BALINT, AIA AR-0016653

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CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER
1007657.00

SHEET TITLE
GROUND FLOOR DIMENSION PLAN

SHEET NUMBER
A2.10D

FILE NAME: Autodesk Docs://1007657.00_-CORE_-City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
DATE STAMP: 10/24/2025 4:26:40 PM

FURNITURE SCHEDULE

MARK	DESCRIPTION	PROV. BY	LOCATION
1F	HAWORTH COMPOSE WORKSTATIONS TYPE 1	OFOI	RECORDS/CRIME SCENE UNIT/EVIDENCE PROCESSING/PATROL/TRAFFIC/PURCHASING/PATROL OFFICERS/PIO/ACCREDITATION/DETECTIVE BUREAU/OPEN WORK AREA
2F	HAWORTH COMPOSE WORKSTATIONS TYPE 2	OFOI	VICTIM ADVOCATE
3F	HAWORTH COMPOSE WORKSTATIONS TYPE 3	OFOI	CODE ENFORCEMENT
4F	HAWORTH COMPOSE WORKSTATIONS TYPE 4	OFOI	DETECTIVE BUREAU
5F	HAWORTH COMPOSE RECEPTION WORKSTATIONS	OFOI	INTERNAL AFFAIRS/EXECUTIVE OFFICES/CHIEFS OFFICES
6F	LACASSE CONCEPT 300 U-SHAPE DESK TYPE 1	OFOI	SUPERVISORS/SERGEANT/CAPTAIN/INVESTIGATOR/COMMANDER/PURCHASING/RTC/CTECH
7F	LACASSE CONCEPT 300 U-SHAPE DESK TYPE 2	OFOI	MAJORS
8F	LACASSE QUORUM TABLE TYPE 1	OFOI	MAJORS
9F	LACASSE CONCEPT 300 U-SHAPE DESK TYPE 3	OFOI	ASSISTANT CHIEF/DEPUTY CHIEF
10F	LACASSE QUORUM TABLE TYPE 2	OFOI	ASSISTANT CHIEF/DEPUTY CHIEF/CHIEF'S OFFICE
11F	LACASSE CONCEPT 300 U-SHAPE DESK TYPE 4	OFOI	CHIEF'S OFFICE
12F	LACASSE CONCEPT 300 7'X8' DESKS	OFOI	DIGITAL FORENSICS
13F	HAWORTH COMPOSE STORAGE	OFOI	PATROL
14F	NEVERS AMERICANA TABLE TYPE 1	OFOI	EXECUTIVE CONFERENCE ROOM
15F	NEVERS AMERICANA TABLE TYPE 2	OFOI	MEDIUM CONFERENCE ROOM
16F	NEVERS AMERICANA TABLE TYPE 3	OFOI	MEETING ROOM
17F	NEVERS AMERICANA CREDENZA	OFOI	2ND FLOOR CONFERENCE ROOM
18F	HAWORTH PLANES CONFERENCE TABLE	OFOI	CHIEF'S CONFERENCE
19F	HAWORTH JIVE TABLE TYPE 1	OFOI	TRAINING ROOM
20F	HAWORTH JIVE TABLE TYPE 2	OFOI	BREAKROOM
21F	HAWORTH JIVE TABLE TYPE 3	OFOI	BREAKROOM
22F	HAWORTH JIVE TABLE TYPE 4	OFOI	BREAKROOM
23F	HAWORTH JIVE TABLE TYPE 5	OFOI	BREAKROOM

FURNITURE SCHEDULE

MARK	DESCRIPTION	PROV. BY	LOCATION
24F	HAWORTH X-SERIES BOOKCASE	OFOI	TRAFFIC
25F	HAWORTH X-SERIES STORAGE TYPE 1	OFOI	VICIM ADVOCATE/TRAFFIC/TAC/EVIDENCE PROCESSING/PHOTOGRAPHY
26F	HAWORTH X-SERIES STORAGE TYPE 2	OFOI	CONTROL ROOM
27F	FIREKING 1-HR FIRE RATED LATERAL	OFOI	RECORDS STORAGE
28F	FURNITURE LAB JUPITER BOOTH	OFOI	BREAKROOM
29F	LACASSE CONCEPT 300 TYPE 1	OFOI	VICTIM ADVOCATE/INTERNAL AFFAIRS
30F	LACASSE CONCEPT 300 TYPE 2	OFOI	VICTIM ADVOCATE/INTERNAL AFFAIRS
31F	LACASSE CONCEPT 400 TABLE TYPE 1	OFOI	WAITING AREAS
32F	LACASSE CONCEPT 400 TABLE TYPE 2	OFOI	WAITING AREAS
33F	SAFCO MAILFLOW SORTER	OFOI	MAIL ROOM
34F	SAFCO MAILFLOW STORAGE TABLE	OFOI	MAIL ROOM
35F	LAZYBOY REMA RECLINER	OFOI	QUIET ROOM/LACTATION
36F	EMUAMERICA MIRA LOUNGE TABLE	OFOI	COVERED PATIO
37F	EMUAMERICA MIRA LOUNGE CHAIR	OFOI	COVERED PATIO
38F	EMUAMERICA MIRA LOUNGE SOFA	OFOI	COVERED PATIO
39F	JANUS ET CIE DUO COUNTER STOOL	OFOI	COVERED PATIO
40F	JANUS ET CIE JANUS CAFE TABLE	OFOI	COVERED PATIO
41F	SITONIT MOVI	OFOI	TRAINING
42F	SITONIT FOCUS TASK CHAIR	OFOI	WORKSTATIONS/RECEPTION DESKS/INTERVIEW ROOMS/TYPICAL 1 OFFICES/PATROL CONFERENCE ROOM
43F	SITONIT AMPLIFY TASK CHAIR	OFOI	MAJORS/ASSISTANT CHIEF/DEPUTY CHIEF/CHIEF
44F	SITONIT FOCUS GUEST CHAIR	OFOI	MAJORS/ASSISTANT CHIEF/DEPUTY CHIEF/CHIEF/SEARGENT/INTERVIEW/CAPTAIN/BREAKROOM
45F	SITONIT STEPHEN CONFERENCE	OFOI	CONFERENCE ROOM
46F	SITONIT FOCUS TASK STOOL	OFOI	CRIME SCENE LAB
47F	SITONIT COMPOSIUM CHAIR	OFOI	WAITING AREAS

FURNITURE SCHEDULE

MARK	DESCRIPTION	PROV. BY	LOCATION
48F	SITONIT COMPOSIUM SOFA	OFOI	WAITING AREAS
49F	SPEC FURNITURE HD TABLES	OFOI	INTERVIEW ROOMS
50F	SPEC FURNITURE 2000 HD SERIES	OFOI	INTERVIEW ROOMS
51F	TMC LAKE LOUNGE	OFOI	FAMILY INTERVIEW ROOM
52F	GRESSCO WALL BOOK SHELF	OFOI	FAMILY INTERVIEW ROOM
53F	SPEC FURNITURE TRAFFIC	OFOI	DETECTIVE BUREAU INTERVIEW ROOM
54F	WISCONSIN BENCH EPIC TABLE	OFOI	CRIME SCENE LAB
55F	INTENSA SERIES 993 PHYSICIAN STOOL	OFOI	FINGERPRINT/ID CARD
56F	ULINE STAINLESS STEEL WORKTABLE 96"X36"X34"H	OFOI	EVIDENCE VIEWING
57F	ULINE STAINLESS STEEL WIRE BACK SHELVING 48"X24"	OFOI	TRAFFIC
58F	XYBIX WORKSTATION TYPE 1	OFOI	COMMUNICATIONS
59F	XYBIX WORKSTATION TYPE 2	OFOI	COMMUNICATIONS
60F	XYBIX WORKSTATION TYPE 3	OFOI	COMMUNICATIONS
61F	XYBIX LATERAL FILE DRAWER	OFOI	COMMUNICATIONS
62F	XYBIX LOCKER	OFOI	COMMUNICATIONS
63F	FLOOR-MOUNTED STAINLESS STEEL BENCH	CFCI	HOLDING CELL
64F	PHENOLIC LOCKERS	CFCI	LOCKER ROOM
65F	O.F.E. CONSOLE	OFOI	RTC

NOTE: CONTRACTOR TO COORDINATE ALL FFE ITEMS

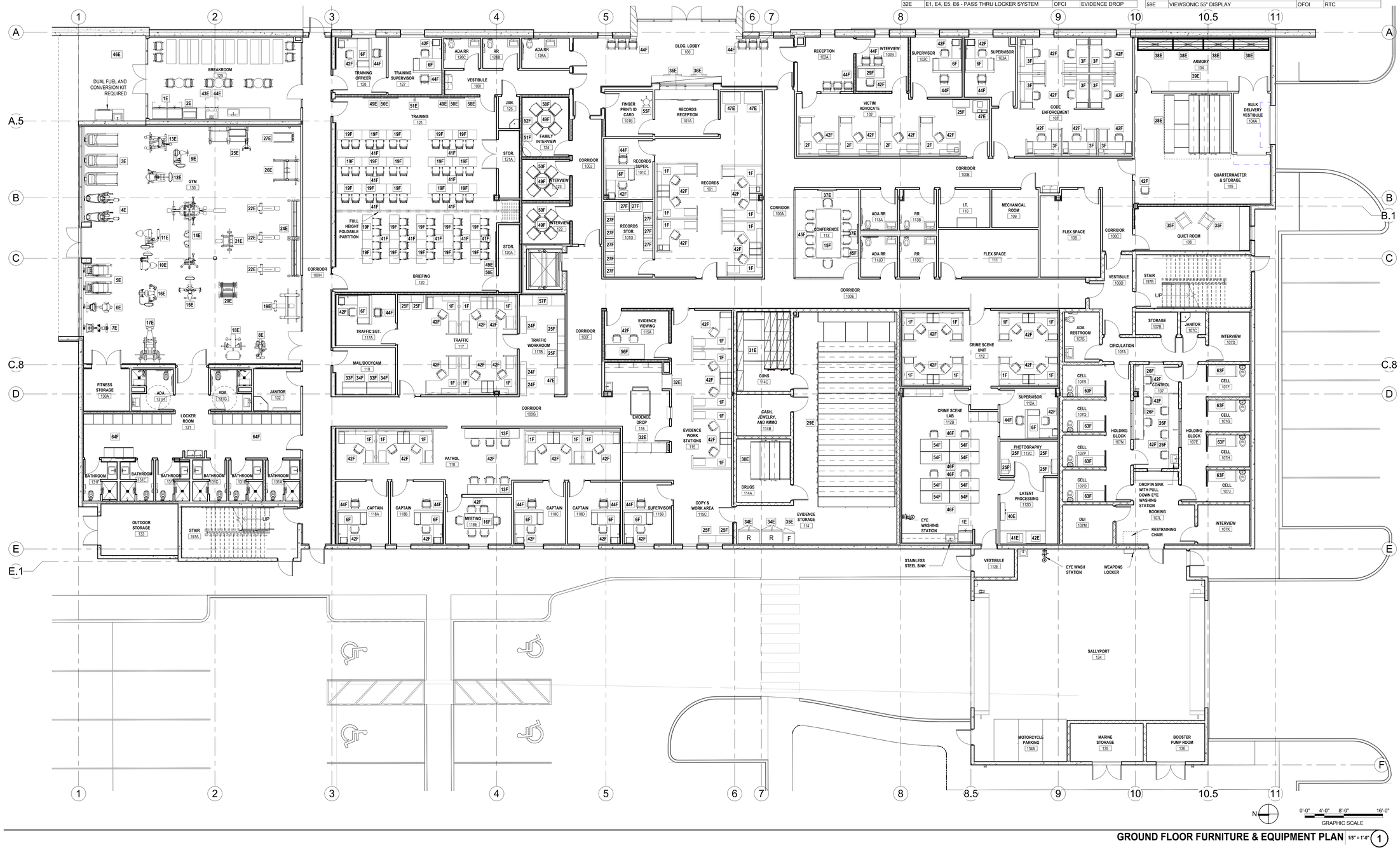
OFCI - OWNER FURNISHED CONTRACTOR INSTALLED
OFOI - OWNER FURNISHED OWNER INSTALLED
CFCI - CONTRACTOR FURNISHED CONTRACTOR INSTALLED

EQUIPMENT SCHEDULE

MARK	DESCRIPTION	PROV. BY	LOCATION
1E	THERMADOR 36 INCH FREESTANDING FRENCH DOOR REFRIGERATOR WITH 20.8 CU FT CAPACITY. T36FT810NS	CFCI	BREAKROOMS, KITCHENETTE
2E	MICROWAVE COMMERCIAL GRADE	CFCI	BREAKROOMS, KITCHENETTE
3E	TREADMILL	OFOI	GYM
4E	CROSS TRAINER	OFOI	GYM
5E	GAUNTLET	OFOI	GYM
6E	RECUMBENT BIKE	OFOI	GYM
7E	VIRTUAL BIKE	OFOI	GYM
8E	AIR BIKE	OFOI	GYM
9E	AB/LOW BACK	OFOI	GYM
10E	LEG EXTENSION	OFOI	GYM
11E	LEG CURL	OFOI	GYM
12E	INNER/OUTER THIGH	OFOI	GYM
13E	CHIN DIP ASSIST	OFOI	GYM
14E	MULTI-JUNGLE	OFOI	GYM
15E	PEC FLY/DELT	OFOI	GYM
16E	CHEST PRESS	OFOI	GYM
17E	PLATE LOADED LEG PRESS	OFOI	GYM
18E	GLUTE DRIVE	OFOI	GYM
19E	SMITH MACHINE	OFOI	GYM
20E	BARBELL RACK	OFOI	GYM
21E	PREACHER BENCH	OFOI	GYM
22E	MULTI-ADJUST BENCH	OFOI	GYM
23E	UTILITY BENCH	OFOI	GYM
24E	DUMBBELL RACK	OFOI	GYM
25E	HALF RACK	OFOI	GYM
26E	FUNCTIONAL BAY	OFOI	GYM
27E	ROPE TRAINER	OFOI	GYM
28E	U2 -14' D X 12' W X 9' H PATTERSON POPE "ACTIVRAC" HIGH DENSITY STORAGE	OFCI	QUARTERMASTER
29E	U1 -16' D X 40' W X 10' H "ACTIVE RACK" HIGH DENSITY STORAGE	OFCI	EVIDENCE STORAGE
30E	U1 - DRUGS STORAGE SYSTEM HDS	OFCI	DRUGS
31E	U3, U4, U5 - GUNS STORAGE SYSTEM HDS	OFCI	GUNS
32E	E1, E4, E5, E6 - PASS THRU LOCKER SYSTEM	OFCI	EVIDENCE DROP

EQUIPMENT SCHEDULE

MARK	DESCRIPTION	PROV. BY	LOCATION
33E	L1 - LATERAL FILES STORAGE	OFCI	PERSONNEL/ IA FILES
34E	BEVERAGE-AIR DOUBLE DOOR REFRIGERATOR MODEL HBR49HC-1	CFCI	EVIDENCE STORAGE
35E	BEVERAGE-AIR SINGLE DOOR FREEZER MODEL HBF19HC-1	CFCI	EVIDENCE STORAGE
36E	SAMSUNG 82" CLASS LED Q90 SERIES 2160 SMART 4K UHD W/ HDR WALL MOUNTED	OFCI	SEE FFE PLAN
37E	SAMSUNG 82" CLASS LED Q90 SERIES 2160 SMART 4K UHD W/ HDR WALL MOUNTED	OFCI	SKIFF, CONFERENCE ROOM
38E	WS2 - WEAPONS RACK	OFCI	ARMORY
39E	ROUSSEAU RAISED DOUBLE WORKSTATION	OFCI	ARMORY
40E	FLAMMABLE STORAGE CABINET	OFCI	CRIME LAB
41E	CYANOACRYLATE FUMING CHAMBER - CA 3000	OFOI	CRIME LAB
42E	AIRCLEAN 4000 WORKSTATION - DUCTLESS FUME HOOD	OFOI	CRIME LAB
43E	GE DROP-IN RANGE JD630SFSS	CFCI	1ST FLOOR BREAKROOM
44E	GREENHECK HOOD FIREREADY GRRS - SEE MECH. DWGS	CFCI	1ST FLOOR BREAKROOM
45E	SKYDIO X10 DRONE	OFOI	GYM ROOF
46E	5-BURNER GAS GRILL CB W/ SINK #463246118	CFCI	BREAKROOM PATIO
47E	COPIER/PRINTER	CFCI	VARIES
48E	8 CUBIC FT BREAST MILK REFRIDGERATOR W/ INTERIOR LOCKERS	CFCI	LACTATION ROOM
49E	DISPLAY WALL MOUNT	OFOI	TRAINING, BRIEFING, SKIFF, CHIEF'S CONFERENCE, RTC
50E	VIEWSONIC 98" DISPLAY CDE9830-W	OFOI	TRAINING, BRIEFING, SKIFF, CHIEF'S CONFERENCE, RTC
51E	PTZ CAMERA	OFOI	RTC
52E	BARCO / UNISEE II / 5X2 LCD WALL	OFOI	RTC
53E	DELL MONITOR	OFOI	RTC
54E	LOGITECH TOUCHPANEL	OFOI	CHIEF'S CONF.
55E	LOGITECH TABLE MIC	OFOI	CHIEF'S CONF.
56E	LOGITECH CAMERA	OFOI	CHIEF'S CONF.
57E	SAN DECODER	OFOI	TRAINING
58E	QSC TOUCHPANEL	OFOI	TRAINING
59E	VIEWSONIC 55" DISPLAY	OFOI	RTC



GROUND FLOOR FURNITURE & EQUIPMENT PLAN 1/8" = 1'-0" (1)

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Riviera Beach, FL 33404

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STATE OF FLORIDA JOBY L. BALINT REGISTERED ARCHITECT AR0016653

JOBY L. BALINT, AIA AR-0016653

DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
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CONSULTANT

PROJECT STATUS
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DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
GROUND FLOOR FURNITURE AND EQUIPMENT PLAN

SHEET NUMBER
A2.10F

FLOOR PLAN NOTES

1. ROOM AND DOOR REFERENCE NUMBERS ARE FOR DESIGN AND CONSTRUCTION COORDINATION PURPOSES ONLY.
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3. ALL DIMENSIONS ARE TO FACE OF STUD, GRID LINE OR FACE OF MASONRY.
4. ALL DIMENSIONS NOTED AS "CLEAR" OR "FINISH" ARE TO FACE OF FINISH SURFACE TO MAINTAIN ADA CLEARANCES.
5. FOR FURTHER DIMENSIONS; SEE LARGE SCALE PLANS, INTERIOR ELEVATIONS, EXTERIOR ELEVATIONS, SECTIONS, AND DETAILS.
6. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFORMATION IN WRITING BEFORE EXECUTION OF WORK.
7. REFER TO SHEET G0.02 "GENERAL PROJECT INFORMATION" FOR GENERAL PROJECT GRAPHICS AND ABBREVIATIONS FOR ADDITIONAL INFORMATION.
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- ROOM / 132 — ROOM NAME / (RE: ROOM FINISH SCHEDULE) / ROOM NUMBER / LEVEL
- W12 — WINDOW TAG
- A10 — SHEET KEYNOTE
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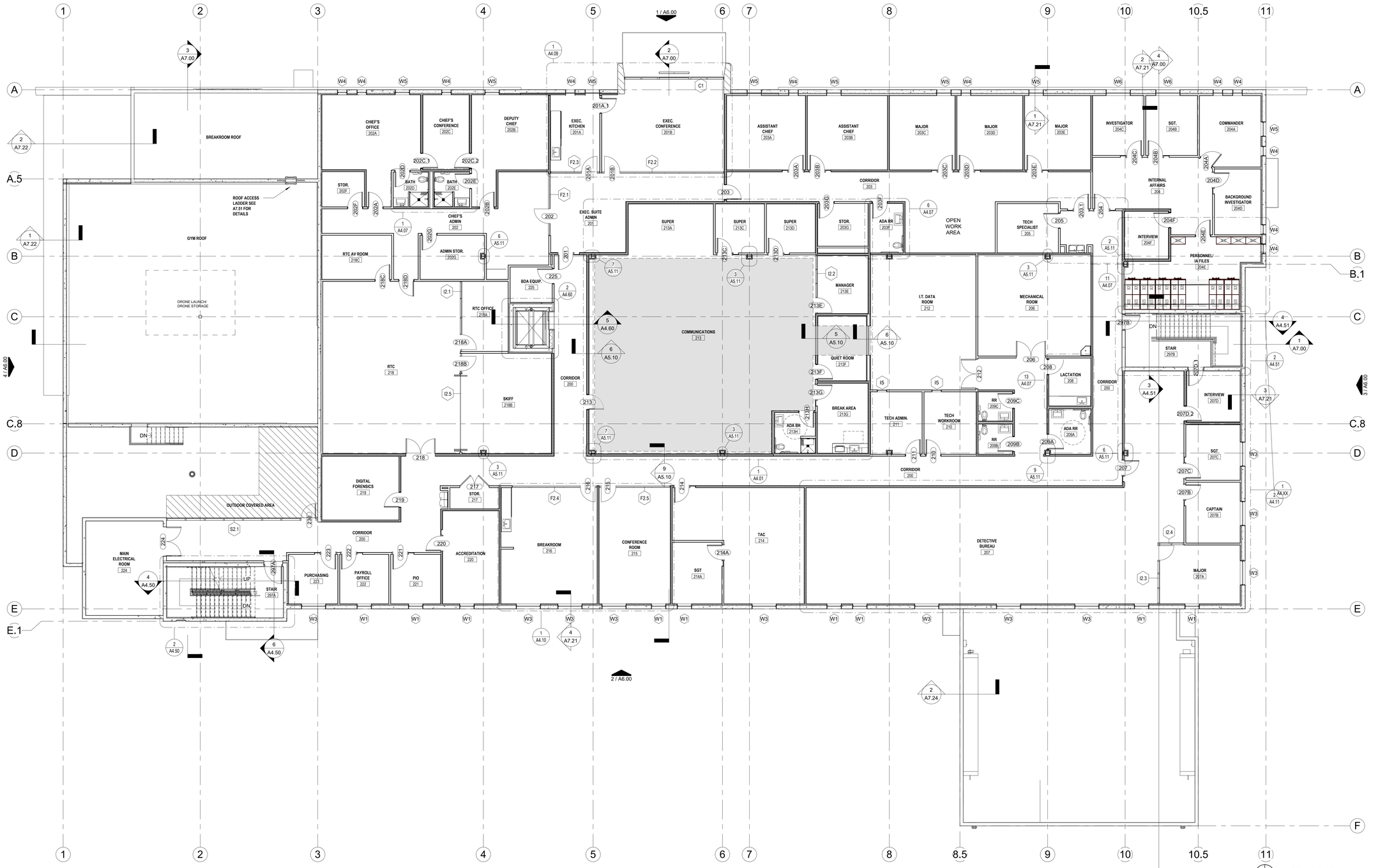

SECOND FLOOR ANNOTATION PLAN 1/8" = 1'-0" (1)

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JOBY L. BALINT, AIA AR-0016653

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2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
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SHEET TITLE
SECOND FLOOR ANNOTATION PLAN

SHEET NUMBER
A2.20A

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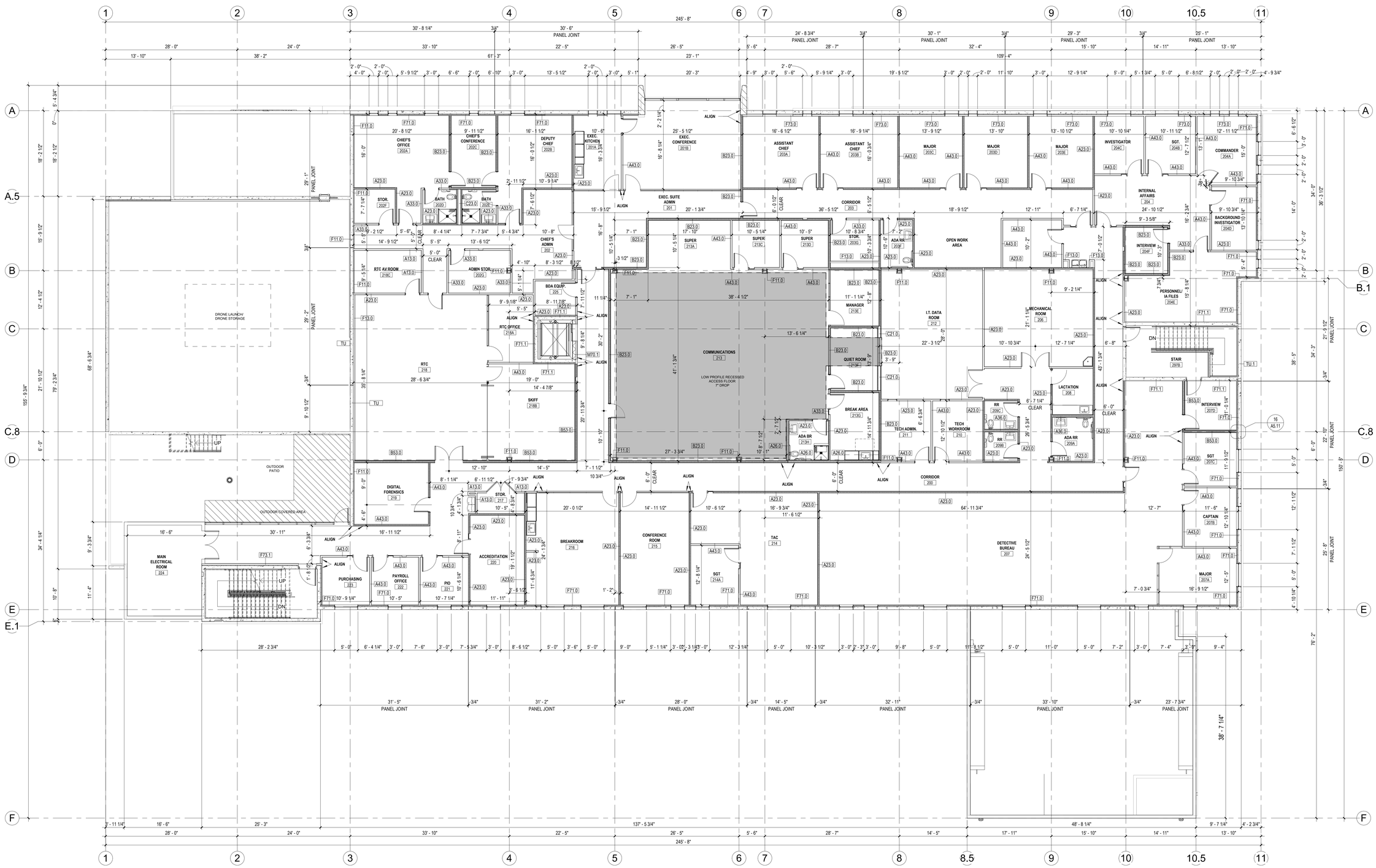

SECOND FLOOR DIMENSION PLAN

1/8" = 1'-0" (1)

N

0'-0" 4'-0" 8'-0" 16'-0"

GRAPHIC SCALE

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DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
SECOND FLOOR DIMENSION PLAN

SHEET NUMBER
A2.20D

FURNITURE SCHEDULE

MARK	DESCRIPTION	PROV. BY	LOCATION
1F	HAWORTH COMPOSE WORKSTATIONS TYPE 1	OFOI	RECORDS/CRIME SCENE UNIT/EVIDENCE PROCESSING/PATROL/TRAFFIC/PURCHASING/ PATROL OFFICE/PIO/ACCREDITATION/DETECTIVE BUREAU/OPEN WORK AREA
2F	HAWORTH COMPOSE WORKSTATIONS TYPE 2	OFOI	VICTIM ADVOCATE
3F	HAWORTH COMPOSE WORKSTATIONS TYPE 3	OFOI	CODE ENFORCEMENT
4F	HAWORTH COMPOSE WORKSTATIONS TYPE 4	OFOI	DETECTIVE BUREAU
5F	HAWORTH COMPOSE RECEPTION WORKSTATIONS	OFOI	INTERNAL AFFAIRS/EXECUTIVE OFFICES/CHIEFS OFFICES
6F	LACASSE CONCEPT 300 U-SHAPE DESK TYPE 1	OFOI	SUPERVISORS/SERGEANT/CAPTAIN/INVESTIGATOR/COMMANDER/PURCHASING/RTC/TECH
7F	LACASSE CONCEPT 300 U-SHAPE DESK TYPE 2	OFOI	MAJORS
8F	LACASSE QUORUM TABLE TYPE 1	OFOI	MAJORS
9F	LACASSE CONCEPT 300 U-SHAPE DESK TYPE 3	OFOI	ASSISTANT CHIEF/DEPUTY CHIEF
10F	LACASSE QUORUM TABLE TYPE 2	OFOI	ASSISTANT CHIEF/DEPUTY CHIEF/CHIEF'S OFFICE
11F	LACASSE CONCEPT 300 U-SHAPE DESK TYPE 4	OFOI	CHIEF'S OFFICE
12F	LACASSE CONCEPT 300 7'X8' DESKS	OFOI	DIGITAL FORENSICS
13F	HAWORTH COMPOSE STORAGE	OFOI	PATROL
14F	NEVERS AMERICANA TABLE TYPE 1	OFOI	EXECUTIVE CONFERENCE ROOM
15F	NEVERS AMERICANA TABLE TYPE 2	OFOI	MEDIUM CONFERENCE ROOM
16F	NEVERS AMERICANA TABLE TYPE 3	OFOI	MEETING ROOM
17F	NEVERS AMERICANA CREDENZA	OFOI	2ND FLOOR CONFERENCE ROOM
18F	HAWORTH PLANES CONFERENCE TABLE	OFOI	CHIEFS CONFERENCE
19F	HAWORTH JIVE TABLE TYPE 1	OFOI	TRAINING ROOM
20F	HAWORTH JIVE TABLE TYPE 2	OFOI	BREAKROOM
21F	HAWORTH JIVE TABLE TYPE 3	OFOI	BREAKROOM
22F	HAWORTH JIVE TABLE TYPE 4	OFOI	BREAKROOM
23F	HAWORTH JIVE TABLE TYPE 5	OFOI	BREAKROOM

FURNITURE SCHEDULE

MARK	DESCRIPTION	PROV. BY	LOCATION
24F	HAWORTH X-SERIES BOOKCASE	OFOI	TRAFFIC
25F	HAWORTH X-SERIES STORAGE TYPE 1	OFOI	VICIM ADVOCATE/TRAFFIC/TAC/EVIDENCE PROCESSING/PHOTOGRAPHY
26F	HAWORTH X-SERIES STORAGE TYPE 2	OFOI	CONTROL ROOM
27F	FIREKING 1-HR FIRE RATED LATERAL	OFOI	RECORDS STORAGE
28F	FURNITURE LAB JUPITER BOOTH	OFOI	BREAKROOM
29F	LACASSE CONCEPT 300 TYPE 1	OFOI	VICTIM ADVOCATE/INTERNAL AFFAIRS
30F	LACASSE CONCEPT 300 TYPE 2	OFOI	VICTIM ADVOCATE/INTERNAL AFFAIRS
31F	LACASSE CONCEPT 400 TABLE TYPE 1	OFOI	WAITING AREAS
32F	LACASSE CONCEPT 400 TABLE TYPE 2	OFOI	WAITING AREAS
33F	SAFCO MAILFLOW SORTER	OFOI	MAIL ROOM
34F	SAFCO MAILFLOW STORAGE TABLE	OFOI	MAIL ROOM
35F	LAZYBOY REMA RECLINER	OFOI	QUIET ROOM/LACTATION
36F	EMUAMERICA MIRA LOUNGE TABLE	OFOI	COVERED PATIO
37F	EMUAMERICA MIRA LOUNGE CHAIR	OFOI	COVERED PATIO
38F	EMUAMERICA MIRA LOUNGE SOFA	OFOI	COVERED PATIO
39F	JANUS ET CIE DUO COUNTER STOOL	OFOI	COVERED PATIO
40F	JANUS ET CIE JANUS CAFE TABLE	OFOI	COVERED PATIO
41F	SITONIT MOVI	OFOI	TRAINING
42F	SITONIT FOCUS TASK CHAIR	OFOI	WORKSTATIONS/RECEPTION DESKS/INTERVIEW ROOMS/TYPICAL 1 OFFICES/PATROL CONFERENCE ROOM
43F	SITONIT AMPLIFY TASK CHAIR	OFOI	MAJORS/ASSISTANT CHIEF/DEPUTY CHIEF/CHIEF
44F	SITONIT FOCUS GUEST CHAIR	OFOI	MAJORS/ASSISTANT CHIEF/DEPUTY CHIEF/CHIEF/SEARGENT/INTERVIEW/CAPTAIN/ BREAKROOM
45F	SITONIT STEPHEN CONFERENCE	OFOI	CONFERENCE ROOM
46F	SITONIT FOCUS TASK STOOL	OFOI	CRIME SCENE LAB
47F	SITONIT COMPOSIUM CHAIR	OFOI	WAITING AREAS

FURNITURE SCHEDULE

MARK	DESCRIPTION	PROV. BY	LOCATION
48F	SITONIT COMPOSIUM SOFA	OFOI	WAITING AREAS
49F	SPEC FURNITURE HD TABLES	OFOI	INTERVIEW ROOMS
50F	SPEC FURNITURE 2000 HD SERIES	OFOI	INTERVIEW ROOMS
51F	TMC LAKE LOUNGE	OFOI	FAMILY INTERVIEW ROOM
52F	GRESSCO WALL BOOK SHELF	OFOI	FAMILY INTERVIEW ROOM
53F	SPEC FURNITURE TRAFFIC	OFOI	DETECTIVE BUREAU INTERVIEW ROOM
54F	WISCONSIN BENCH EPIC TABLE	OFOI	CRIME SCENE LAB
55F	INTENSA SERIES 993 PHYSICIAN STOOL	OFOI	FINGERPRINT/ID CARD
56F	ULINE STAINLESS STEEL WORKTABLE 96"X36"X34"H	OFOI	EVIDENCE VIEWING
57F	ULINE STAINLESS STEEL WIRE BACK SHELVING 48"X24"	OFOI	TRAFFIC
58F	XYBIX WORKSTATION TYPE 1	OFOI	COMMUNICATIONS
59F	XYBIX WORKSTATION TYPE 2	OFOI	COMMUNICATIONS
60F	XYBIX WORKSTATION TYPE 3	OFOI	COMMUNICATIONS
61F	XYBIX LATERAL FILE DRAWER	OFOI	COMMUNICATIONS
62F	XYBIX LOCKER	OFOI	COMMUNICATIONS
63F	FLOOR-MOUNTED STAINLESS STEEL BENCH	CFCI	HOLDING CELL
64F	PHENOLIC LOCKERS	CFCI	LOCKER ROOM
65F	O.F.E. CONSOLE	OFOI	RTC

NOTE: CONTRACTOR TO COORDINATE ALL FFE ITEMS REFER TO ELECTRICAL DWGS FOR FIRE ALARM, ANNUNCIATOR, IT EQUIPMENT, WATER FOUNTAIN.

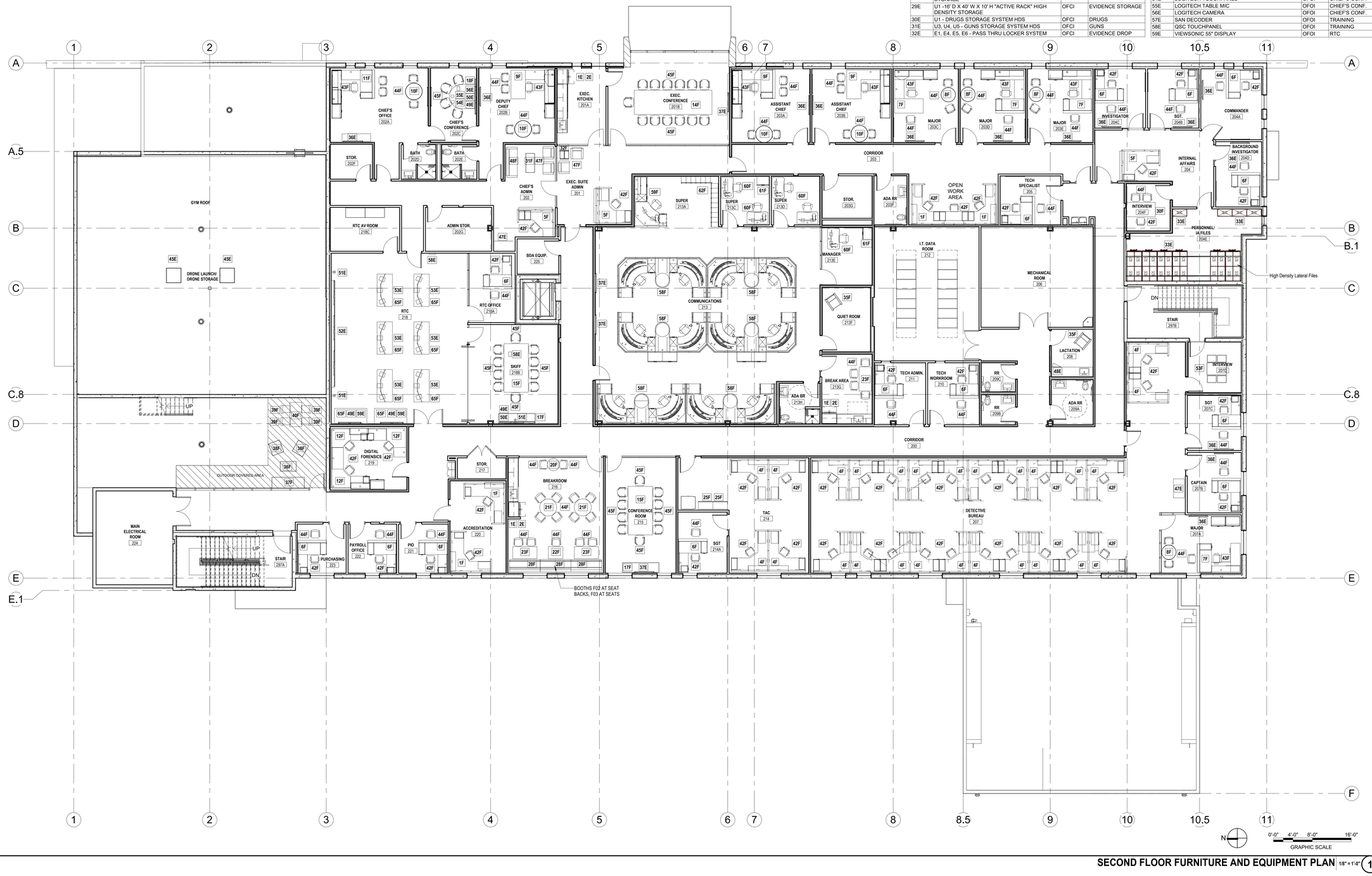
OFCI - OWNER FURNISHED CONTRACTOR INSTALLED
OFOI - OWNER FURNISHED OWNER INSTALLED
CFCI - CONTRACTOR FURNISHED CONTRACTOR INSTALLED

EQUIPMENT SCHEDULE

MARK	DESCRIPTION	PROV. BY	LOCATION
1E	THERMADOR 36 INCH FREESTANDING FRENCH DOOR REFRIGERATOR WITH 20.8 CU FT CAPACITY. T36FT810NS	CFCI	BREAKROOMS, KITCHENETTE
2E	MICROWAVE COMMERCIAL GRADE	CFCI	BREAKROOMS, KITCHENETTE
3E	TREADMILL	OFOI	GYM
4E	CROSS TRAINER	OFOI	GYM
5E	GAUNTLET	OFOI	GYM
6E	RECUMBENT BIKE	OFOI	GYM
7E	VIRTUAL BIKE	OFOI	GYM
8E	AIR BIKE	OFOI	GYM
9E	AB/LOW BACK	OFOI	GYM
10E	LEG EXTENSION	OFOI	GYM
11E	LEG CURL	OFOI	GYM
12E	INNER/OUTER THIGH	OFOI	GYM
13E	CHIN DIP ASSIST	OFOI	GYM
14E	MULTI-JUNGLE	OFOI	GYM
15E	PEC FLY/DELT	OFOI	GYM
16E	CHEST PRESS	OFOI	GYM
17E	PLATE LOADED LEG PRESS	OFOI	GYM
18E	GLUTE DRIVE	OFOI	GYM
19E	SMITH MACHINE	OFOI	GYM
20E	BARBELL RACK	OFOI	GYM
21E	PREACHER BENCH	OFOI	GYM
22E	MULTI-ADJUST BENCH	OFOI	GYM
23E	UTILITY BENCH	OFOI	GYM
24E	DUMBBELL RACK	OFOI	GYM
25E	HALF RACK	OFOI	GYM
26E	FUNCTIONAL BAY	OFOI	GYM
27E	ROPE TRAINER	OFOI	GYM
28E	U2 -14' D X 12' W X 9' H PATTERSON POPE "ACTIVRAC" HIGH DENSITY STORAGE	OFCI	QUARTERMASTER
29E	U1 -16' D X 40' W X 10' H "ACTIVE RACK" HIGH DENSITY STORAGE	OFCI	EVIDENCE STORAGE
30E	U1 - DRUGS STORAGE SYSTEM HDS	OFCI	DRUGS
31E	U3, U4, U5 - GUNS STORAGE SYSTEM HDS	OFCI	GUNS
32E	E1, E4, E5, E6 - PASS THRU LOCKER SYSTEM	OFCI	EVIDENCE DROP

EQUIPMENT SCHEDULE

MARK	DESCRIPTION	PROV. BY	LOCATION
33E	L1 - LATERAL FILES STORAGE	OFCI	PERSONNEL/ IA FILES
34E	BEVERAGE-AIR DOUBLE DOOR REFRIGERATOR MODEL HBR49HC-1	CFCI	EVIDENCE STORAGE
35E	BEVERAGE-AIR SINGLE DOOR FREEZER MODEL HBF19HC-1	CFCI	EVIDENCE STORAGE
36E	SAMSUNG 62" CLASS LED Q90 SERIES 2160 SMART 4K UHD W/ HDR WALL MOUNTED	OFCI	SEE FFE PLAN
37E	SAMSUNG 82" CLASS LED Q90 SERIES 2160 SMART 4K UHD W/ HDR WALL MOUNTED	OFCI	SKIFF, CONFERENCE ROOM
38E	WS2 - WEAPONS RACK	OFCI	ARMORY
39E	ROUSSEAU RAISED DOUBLE WORKSTATION	OFCI	ARMORY
40E	FLAMMABLE STORAGE CABINET	OFCI	CRIME LAB
41E	CYANOACRYLATE FUMING CHAMBER - CA 3000	OFCI	CRIME LAB
42E	AIRCLEAN 4000 WORKSTATION - DUCTLESS FUME HOOD	OFOI	CRIME LAB
43E	GE DROP-IN RANGE JD630SFSS	CFCI	1ST FLOOR BREAKROOM
44E	GREENHECK HOOD FIREREADY GRRS - SEE MECH. DWGS	CFCI	1ST FLOOR BREAKROOM
45E	SKYDIO X10 DRONE	OFOI	GYM ROOF
46E	5-BURNER GAS GRILL CB W/ SINK #463246118	CFCI	BREAKROOM PATIO
47E	COPIER/PRINTER	CFCI	VARIES
48E	8 CUBIC FT BREAST MILK REFRIDGERATOR W/ INTERIOR LOCKERS	CFCI	LACTATION ROOM
49E	DISPLAY WALL MOUNT	OFOI	TRAINING, BRIEFING, SKIFF, CHIEF'S CONFERENCE, RTC
50E	VIEWSONIC 98" DISPLAY CDE9830-W	OFOI	TRAINING, BRIEFING, SKIFF, CHIEF'S CONFERENCE, RTC
51E	PTZ CAMERA	OFOI	RTC
52E	BARCO / UNISEE II / 5X2 LCD WALL	OFOI	RTC
53E	DELL MONITOR	OFOI	RTC
54E	LOGITECH TOUCHPANEL	OFOI	CHIEF'S CONF.
55E	LOGITECH TABLE MIC	OFOI	CHIEF'S CONF.
56E	LOGITECH CAMERA	OFOI	CHIEF'S CONF.
57E	SAN DECODER	OFOI	TRAINING
58E	QSC TOUCHPANEL	OFOI	TRAINING
59E	VIEWSONIC 55" DISPLAY	OFOI	RTC



SECOND FLOOR FURNITURE AND EQUIPMENT PLAN 1/8" = 1'-0" (1)

FILE NAME: Autodesk Docs:// 1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
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REGISTRATION

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CONSULTANT

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PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
SECOND FLOOR FURNITURE AND EQUIPMENT PLAN

SHEET NUMBER
A2.20F

ROOF PLAN NOTES

1. DO NOT SCALE DRAWINGS, CONTACT ARCHITECT IN WRITING FOR CLARIFICATIONS OR MISSING DIMENSIONS.
2. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFORMATION IN WRITING BEFORE EXECUTION OF WORK.
3. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND ROOFTOP MECHANICAL EQUIPMENT.
4. PROVIDE WALKWAY PADS AROUND ALL ROOFTOP MECHANICAL EQUIPMENT.
5. PROVIDE WALKWAY PADS FROM ROOFTOP ACCESS MECHANICAL EQUIPMENT FOR PROTECTION.
6. REFER TO STRUCTURAL DRAWINGS FOR "ALLOWABLE" DESIGN WIND PRESSURE REQUIREMENTS RELATED TO THE ROOFING SYSTEM.
7. ROOFING SYSTEM TO HAVE CURRENT MIAMI DADE NOA AND/OR FLORIDA PRODUCT APPROVALS THAT MEET OR EXCEED THE DESIGN WIND PRESSURES. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
8. REFER TO SHEET G0.02 FOR GENERAL ABBREVIATIONS AND ARCHITECTURAL SYMBOLS.
9. R-VALUE IS BASED UPON "CONTINUOUS INSULATION" AT THE LOWEST POINT (ROOF DRAINS AND/OR SCUPPERS) AND PER CURRENT FBC - ENERGY CONSERVATION CLIMATE ZONE 1A AND TABLE C402.1.3. SEE SHEET NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
10. PARAPET ELEVATION TAGS NOTE TOP OF TILT PANEL (OR FRAMING) FROM GROUND FLOOR FINISH ELEVATION (0'-0"). SEE ROOFING DETAILS FOR NAILER, FLASHING, AND COPING CAP.

LEGEND

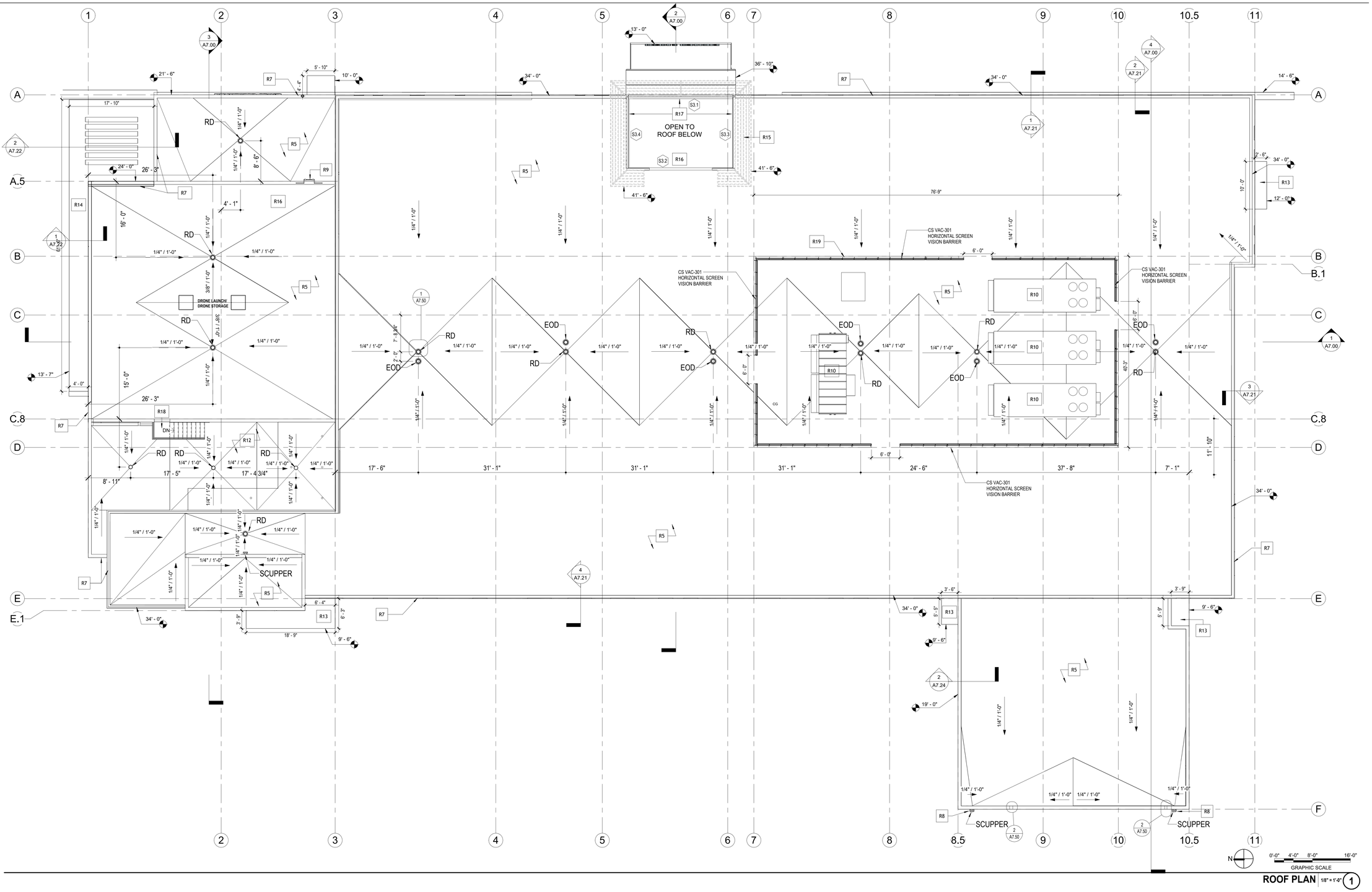
- RXX — ROOF KEY NOTE
- INDICATES 1/4" PER FOOT SLOPE TO DRAIN AT ROOF
- INDICATES ROOF PITCH
- WALK PADS
- 00.0 — NEW OR FINISH POINT ELEVATION
- A10 — SHEET KEYNOTE
- 10 / A7.101 — SIM — BUILDING SECTION REFERENCE

ROOF PLAN KEY NOTES

R1	GENERAL ROOFING NOTE: SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
R2	GENERAL DRAINAGE NOTE: PRIMARY ROOF DRAINAGE USES INTERNAL ROOF DRAINS CONNECTED TO THE UNDERGROUND STORMWATER SYSTEM. EMERGENCY OVERFLOW ROOF DRAINAGE SYSTEM WILL BE INTERNAL AND DISCHARGE TO GRADE. UNLESS OTHERWISE NOTED. SEE CIVIL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
R3	GENERAL ACOUSTICAL NOTE: PRIMARY ROOF DRAINAGE THAT USES PVC PIPING, SHALL BE WRAPPED WITH BATT INSULATION TO MITIGATE NOISE.
R4	SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION. MINIMUM R-21 (LOW POINT / ROOF DRAINS) LIGHTWEIGHT INSULATING CONCRETE OVER STRUCTURAL CONCRETE AND DECKING. LWIC TO SLOPE 1/4" PER FOOT MINIMUM. PROVIDE SLOPED CRICKETS TO DIVERT WATER AT CURB MOUNTED ROOFTOP EQUIPMENT.
R5	FULLY ADHERED SINGLE PLY 80mil FLEECE BACK PVC MEMBRANE WITH KEE AND WHITE FINISH. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
R6	PROVIDE WALK PADS AROUND ALL ROOFTOP MOUNTED EQUIPMENT; EVEN IF NOT SHOWN. WALK PADS BY SAME MANUFACTURER AS SINGLE PLY SYSTEM. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION. COLOR TO BE YELLOW.
R7	PREFINISHED ALUMINUM COPING CAP. REFER TO SHEET A7.50 FOR DETAILS.

R8	SALLYPORT ROOF DRAINAGE: 8"X8" PRIMARY SCUPPER, PREFINISHED ALUMINUM 6"X6" DOWNSPOUT WITH 12"X12" COLLECTOR BOX. TWO (2) 8" WIDE BY 4" HIGH EMERGENCY OVER FLOW SCUPPER. DOWNSPOUT TO DISCHARGE TO GRADE; PROVIDE 15"w X 30"l CONCRETE SPLASH BLOCK AT LANDSCAPED AREAS. PROVIDE A 36"X36"X36" GRAVEL DRYWELL WITH FILTER FABRIC WHEN LOCATED AT LANDSCAPE AREAS.
R9	WALL MOUNTED ALUMINUM ROOF ACCESS LADDER BETWEEN VARIOUS ROOF LEVELS NOT ACCESSIBLE BY STAIRS. REFER TO A7.51 FOR MORE INFORMATION.
R10	ROOFTOP EQUIPMENT; REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION. PROVIDE ELECTRICAL OUTLETS FOR EQUIPMENT SERVICE.
R11	HOSE BIB CONNECTION FOR ROOF AND EQUIPMENT MAINTENANCE. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
R12	PLAZA DECK PER CURRENT TCNA HANDBOOK EXTERIOR ROOF DECK FLOOR DETAIL F103-16
R13	PRE-FINISHED ALUMINUM EYEBROW CANOPY BY PEACHTREE PROTECTIVE COVERS (OR EQUAL) SEE EXTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION. COLOR TO BE SELECTED FROM THE STANDARD COLOR CHART; DARK GREY. SEE ROOF PLAN FOR SIZES. THE FASCIA HEIGHT TO BE 6" MINIMUM. DELEGATED FLORIDA PE SUBMITTAL FOR REVIEW BY A&E.
R14	PRE-FINISHED ALUMINUM CANOPY AT THE PATIO BY PEACHTREE PROTECTIVE COVERS (OR EQUAL). COLOR TO BE DARK GREY. SEE FLOOR PLAN AND EXTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION. DELEGATED FLORIDA PE SUBMITTAL FOR REVIEW BY A&E.

R15	PRE-FINISHED ALUMINUM TRELLIS AT ENTRY FEATURE. SEE ELEVATIONS, SECTIONS, AND DETAILS FOR ADDITIONAL INFORMATION. COLOR TO BE - DELEGATED FLORIDA PE SUBMITTAL FOR REVIEW BY A&E.
R16	ZINC COATED STEEL TUBE STRUCTURE AT ENTRY FEATURE. SEE STRUCTURAL FOR MORE INFORMATION. SEE ELEVATIONS, SECTIONS, AND DETAILS FOR ADDITIONAL INFORMATION REGARDING WINDOW AND METAL PANEL INFILL.
R17	EXTERIOR RATED LED STRIP LIGHTS TO BACK LIT CLERESTORY WINDOWS. SEE SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION. SEE ELECTRICAL FOR ADDITIONAL INFORMATION.
R18	OPEN GRATE TREADS AND ALUMINUM RAILINGS FOR STAIR ACCESS TO DRONE DOCKING STATION. SEE EQUIPMENT CUT SHEETS FOR ADDITIONAL INFORMATION. PROVIDE WALKWAY PADS UNDER DOCKING STATION. EPOXY ANCHORS BOLTS INTO CONCRETE DECK PRIOR TO L.W.I.C. INSTALLATION.
R19	ZINC COATED STEEL TUBE STRUCTURE AT HVAC SCREEN ENCLOSURE. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION. CLAD WITH ALUMINUM HORIZONTAL SCREEN VISION BARRIER VAC-301 (COLOR TO BE DARK METALLIC BRONZE) BY CONSTRUCTION SPECIALTIES (BASIS OF DESIGN); BOTTOM OF VISUAL SCREEN TO START 24" ABOVE FINISHED ROOF.



ROOF PLAN 1/8" = 1'-0" (1)

FILE NAME: Autodesk Docs://_1007657.00_-_CORE_-_City_of_Riviera_Beach_D/1007657.00_RBPD_A_R24.rvt
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INTERIM REVIEW
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RIVIERA BEACH POLICE DEPARTMENT

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2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER
1007657.00

SHEET TITLE
ROOF PLAN

SHEET NUMBER
A2.30

CEILING PLAN NOTES

1. DO NOT SCALE DRAWINGS, CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATIONS OR MISSING DIMENSIONS.
2. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFO. PRIOR TO EXECUTION OF THE WORK.
3. ALL CEILING GRIDS SHALL BE CENTERED WITHIN THE ROOMS. CEILING TILE WIDTH ALONG WALLS SHALL BE NO LESS THAN 1'-0" (OR HALF TILE).
4. CEILING HEIGHTS SHOWN ARE RELATIVE TO THE FINISH FLOOR OF THE SPACE AND/OR ROOM SHOWN.
5. LIGHT FIXTURES AND HVAC DIFFUSERS ARE GENERALLY CENTERED OR EQUALLY SPACED WITHIN THE CEILING AND/OR SOFFITS; UNLESS OTHERWISE SHOWN IN THE RCP OR DIMENSION.
6. ALL CEILING MOUNTED DEVICES AND SPRINKLER HEADS SHALL BE CENTERED WITHIN THE CEILING TILE.
7. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE DESIGNATION, SPECIFICATIONS AND SCHEDULES.
8. REFER TO FIRE PROTECTION, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
9. THE ARCHITECTURAL RCP PROVIDES THE COORDINATED DESIGN INTENT FOR CEILING MOUNTED DEVICES.
10. ROOMS AND/OR SPACES SUBJECT TO HIGH HUMIDITY OR WET CONDITIONS SHALL HAVE MOISTURE AND MOLD RESISTANT CEILING MATERIALS.

RCP LEGEND

- 2x2 ACOUSTICAL CEILING PANEL SYSTEM, 9'-0" AFF UNO
- 2x4 ACOUSTICAL CEILING PANEL SYSTEM, 9'-0" AFF UNO
- 2x2 MOISTURE RESISTANT ACOUSTICAL CEILING PANEL SYSTEM, 9'-0" AFF UNO
- 2x2 MOISTURE RESISTANT ACOUSTICAL CEILING PANEL SYSTEM, 9'-0" AFF UNO
- ACOUSTICAL WOOD PLANK CEILING SYSTEM
- PAINTED, (1) LAYER 5/8" GWB CEILING ON METAL FRAMING SYSTEM, 9'-0" AFF UNO
- EXPOSED STRUCTURE PAINTED PT04
- PREFINISHED METAL CANOPY
- 2X2 FLAT LAY-IN LED FIXTURE
- 2X2 RECESSED LAY-IN LED FIXTURE
- 2X2 RECESSED ACOUSTIC LAY-IN LED FIXTURE
- 1'-1 1/2" X 1'1 1/2" LAY-IN LED FIXTURE
- RECESSED LED DOWNLIGHT
- 12" PENDANT FIXTURE
- 20" LAY-IN LED FIXTURE
- 42" LAY-IN LED FIXTURE
- 18" ROUND GARAGE BAY FIXTURE (WET RATED)
- 30" PENDANT LED FIXTURE
- LINEAR LED STRIP FIXTURE
- LINEAR SURFACE MOUNTED LED FIXTURE
- LINEAR BAFFLE PENDANT (BLANK) AC02
- LINEAR BAFFLE PENDANT LED FIXTURE
- LINEAR DIRECT/INDIRECT PENDANT LED FIXTURE
- LINEAR DIRECT PENDANT LED FIXTURE
- WALL MOUNTED LED FIXTURE
- PENDANT LED FIXTURE
- HVAC DIFFUSER

NOTE:
SEE MATERIAL FINISH SCHEDULE FOR MORE INFORMATION.

(AC02) - LINEAR BLANK CONTINUOUS RUN CONSTRUCTED FROM EXTRUDED ALUMINUM WITH COLD ROLLED STEEL BRACKETS, DIE CAST ALUMINUM JOINERS, AIR CRAFT CABLE SUSPENSION, 0-10V DIMMING DRIVER AND POLYESTER FINISH.

BASIS OF DESIGN: LUMENWERX SQUACOBP-12IN-*FT*IN-UNV-ACS-* OR APPROVED EQUAL.



FILE NAME: Autodesk Docs://_1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
DATE STAMP: 10/24/2025 1:35:31 PM

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

ARCHITECT OF RECORD

PGAL, Inc.
791 Park of Commerce Blvd.
Suite 400
Boca Raton, FL 33487
T 561 988 4002
www.pgal.com

CONSTRUCTION MANAGER/BUILDER

CORE CONSTRUCTION
1641 Worthington Rd
West Palm Beach
FL 33409

PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

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STATE OF FLORIDA
JOBY L. BALINT
AR0016653
REGISTERED ARCHITECT

JOBY L BALINT, AIA AR-0016653

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DRAWING HISTORY

№	DATE	DESCRIPTION
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B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
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CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S. RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
GROUND FLOOR REFLECTED CEILING PLAN

SHEET NUMBER
A3.10

CEILING PLAN NOTES

1. DO NOT SCALE DRAWINGS, CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATIONS OR MISSING DIMENSIONS.
2. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFO. PRIOR TO EXECUTION OF THE WORK.
3. ALL CEILING GRIDS SHALL BE CENTERED WITHIN THE ROOMS; CEILING TILE WIDTH ALONG WALLS SHALL BE NO LESS THAN 1'-0" (OR HALF TILE).
4. CEILING HEIGHTS SHOWN ARE RELATIVE TO THE FINISH FLOOR OF THE SPACE AND/OR ROOM SHOWN.
5. LIGHT FIXTURES AND HVAC DIFFUSERS ARE GENERALLY CENTERED OR EQUALLY SPACED WITHIN THE CEILING AND/OR SOFFITS; UNLESS OTHERWISE SHOWN IN THE RCP OR DIMENSION.
6. ALL CEILING MOUNTED DEVICES AND SPRINKLER HEADS SHALL BE CENTERED WITHIN THE CEILING TILE.
7. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE DESIGNATION, SPECIFICATIONS AND SCHEDULES.
8. REFER TO FIRE PROTECTION, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
9. THE ARCHITECTURAL RCP PROVIDES THE COORDINATED DESIGN INTENT FOR CEILING MOUNTED DEVICES.
10. ROOMS AND/OR SPACES SUBJECT TO HIGH HUMIDITY OR WET CONDITIONS SHALL HAVE MOISTURE AND MOLD RESISTANT CEILING MATERIALS.

RCP LEGEND

- 2X2 ACOUSTICAL CEILING PANEL SYSTEM, 9'-0" AFF UNO
- 2x4 ACOUSTICAL CEILING PANEL SYSTEM, 9'-0" AFF UNO
- 2x2 MOISTURE RESISTANT ACOUSTICAL CEILING PANEL SYSTEM, 9'-0" AFF UNO
- 2x2 MOISTURE RESISTANT ACOUSTICAL CEILING PANEL SYSTEM, 9'-0" AFF UNO
- ACOUSTICAL WOOD PLANK CEILING SYSTEM
- PAINTED, (1) LAYER 5/8" GWB CEILING ON METAL FRAMING SYSTEM, 8'-6" AFF UNO
- EXPOSED STRUCTURE PAINTED PT04
- PREFINISHED METAL CANOPY
- 2X2 FLAT LAY-IN LED FIXTURE
- 2X2 RECESSED LAY-IN LED FIXTURE
- 2X2 RECESSED ACOUSTIC LAY-IN LED FIXTURE
- 1'-1 1/2" X 1'1 1/2" LAY-IN LED FIXTURE
- RECESSED LED DOWNLIGHT
- 12" PENDANT FIXTURE
- 20" LAY-IN LED FIXTURE
- 42" LAY-IN LED FIXTURE
- 18" ROUND GARAGE BAY FIXTURE (WET RATED)
- 30" PENDANT LED FIXTURE
- LINEAR LED STRIP FIXTURE
- LINEAR SURFACE MOUNTED LED FIXTURE
- LINEAR BAFFLE PENDANT (BLANK) AC02
- LINEAR BAFFLE PENDANT LED FIXTURE
- LINEAR DIRECT/INDIRECT PENDANT LED FIXTURE
- LINEAR DIRECT PENDANT LED FIXTURE
- WALL MOUNTED LED FIXTURE
- PENDANT LED FIXTURE
- HVAC DIFFUSER

NOTE:
SEE MATERIAL FINISH SCHEDULE FOR MORE INFORMATION.

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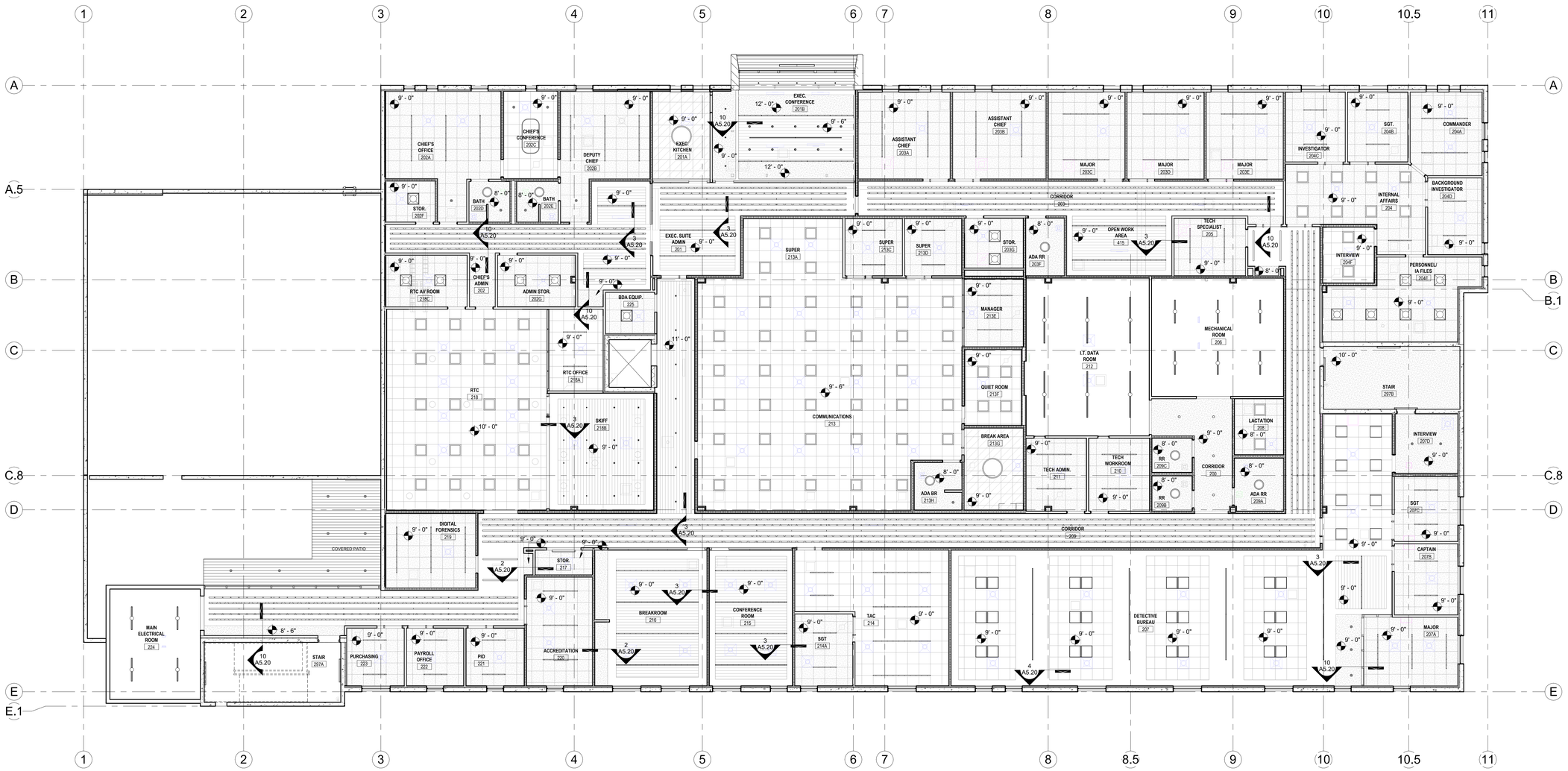

SECOND FLOOR REFLECTED CEILING PLAN 1/8" = 1'-0" (1)

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RIVIERA BEACH, FL
33404

PROJECT NUMBER
1007657.00

SHEET TITLE
SECOND FLOOR REFLECTED CEILING PLAN

SHEET NUMBER
A3.20

FILE NAME: Autodesk Docs://_1007657.00_-_CORE_-_City_of_Riviera_Beach_D/1007657.00_RBPD_A_R24.rvt
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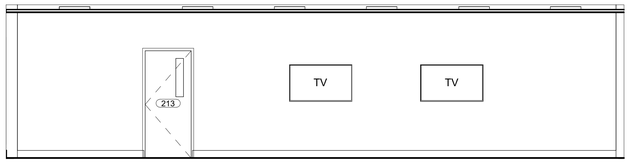
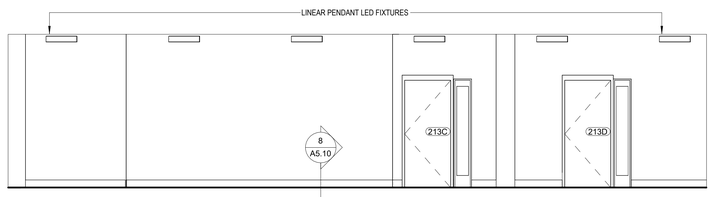
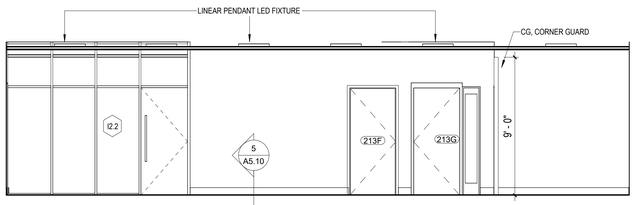


COMMUNICATIONS ROOM NORTH INTERIOR ELEVATION 1/4" = 1'-0" 11

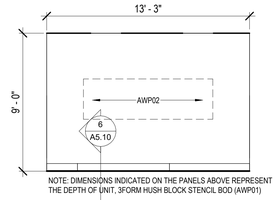
COMMUNICATIONS ROOM WEST INTERIOR ELEVATION 1/4" = 1'-0" 10



COMMUNICATIONS ROOM EAST INTERIOR ELEVATION 1/4" = 1'-0" 9



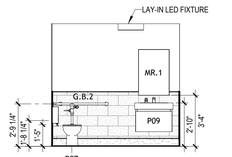
COMMUNICATIONS ROOM SOUTH INTERIOR ELEVATION 1/4" = 1'-0" 8



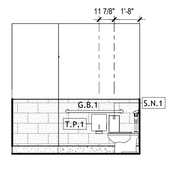
213F SOUTH INTERIOR ELEVATION 1/4" = 1'-0" 7

213G BREAK AREA 1/4" = 1'-0" 6

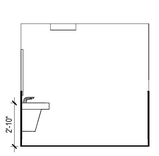
213H LOOKING SOUTH 1/4" = 1'-0" 5



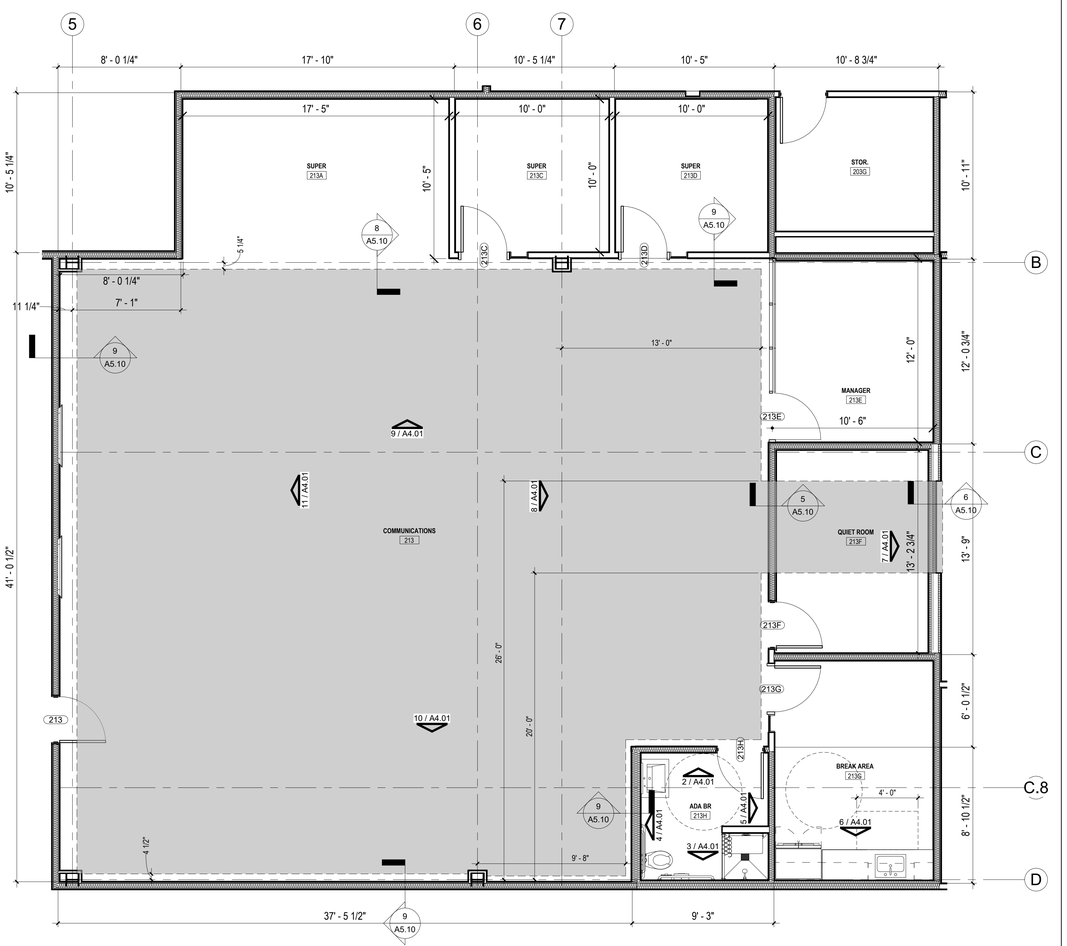
213H LOOKING NORTH 1/4" = 1'-0" 4



213H LOOKING WEST 1/4" = 1'-0" 3



213H LOOKING EAST 1/4" = 1'-0" 2



COMMUNICATIONS ROOM PARTIAL ENLARGED FLOOR PLAN 1/4" = 1'-0" 1

ENLARGED NOTES

1. DO NOT SCALE DRAWINGS, CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATIONS OR MISSING DIMENSIONS.
2. ALL DIMENSIONS SHOWN ARE FROM FACE OF STUD, GRID LINE, FACE OF MASONRY OR CENTER OF PLUMBING FIXTURE.
3. ALL DIMENSIONS NOTED AS "CLEAR" OR "FINISH" ARE TO FACE OF FINISH SURFACE TO MAINTAIN ADA CLEARANCES.
4. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFORMATION IN WRITING BEFORE EXECUTION OF WORK.
5. REFER TO SHEET G0.03 THROUGH G0.05 REGARDING TYPICAL FIXTURE AND ACCESSORIES FOR ADA MOUNTING HEIGHTS AND CLEARANCES ON THIS SHEET.
6. REFER TO SHEET G0.02 "GENERAL PROJECT INFORMATION" FOR GENERAL PROJECT GRAPHICS AND ABBREVIATIONS FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL FIELD COORDINATE LOCATION, SIZE AND TYPE OF NON-COMBUSTIBLE BLOCKING FOR INSTALLATION OF SIGNAGE, TOILET ACCESSORIES, HARDWARE, MILLWORK, ETC.
8. CONTRACTOR TO REVIEW ALL DRAWINGS (ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL) WITH SUBCONTRACTORS AS IT RELATES TO THE INSTALLATION AND FIELD COORDINATION OF PHONE, ELECTRICAL OUTLETS, DATA, CLEANOUTS, THERMOSTATS, FIRE ALARMS, FLOOR DRAINS, ACCESS TO VALVES, EQUIPMENT, ETC. THAT MAY OCCUPY THE SAME SPACE AS MILLWORK AND ADJUST AS NECESSARY. REVIEW CHANGES WITH ARCHITECT BEFORE PROCEEDING.
9. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
10. FLOOR / SHOWER FLOOR SLOPE SHALL NOT EXCEED 1:48 IN ANY DIRECTION TO DRAINS PER ADA REQUIREMENTS.

MILLWORK NOTES

1. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. ALL CABINETS TO BE SIZED BASED ON 3" STANDARD INCREMENTS.
3. PROVIDE FILLERS AS REQUIRED BASED ON OVERALL MILLWORK DIMENSIONS. FILLERS SHOULD BE 1 1/2" TO 3"
4. VERIFY EQUIPMENT DIMENSIONS AND COORDINATE WITH MILLWORK CONTRACTOR FOR SHOP DRAWINGS.

TOILET ACCESSORY NOMENCLATURE

SHR.	SHOWER CURTAIN + ROD
T.B	TOWEL BAR
T.R	TOWEL RING
T.P.1	TOILET PAPER HOLDER
MR.1	MIRROR
SH.	CORNER SOAP SHELF
S.D.1	SOAP DISPENSER
G.B.1	42" GRAB BAR
G.B.2	36" GRAB BAR
S.B.	SHOWER BENCH SEAT
R.H.	ROBE HOOK
SCD.	SEAT COVER DISPENSER
S.N.1	SANITARY NAPKIN DISPOSAL

NOTE: SEE SHEETS G0.03 & G0.04 REGARDING ADA MOUNTING HEIGHTS AND REFER TO PROJECT SPECIFICATIONS FOR TOILET ACCESSORY MANUFACTURER AND MODEL NUMBERS.

X ### — PARTITION TYPE TAG

CMU W/OUT FURRING

CMU W/FURRING

DRYWALL PARTITION

DRYWALL PARTITION W/ BATT INSULATION

TILT WALL W/ FURRING

TILT WALL W/O FURRING

REFER TO SHEET A0.10 FOR GENERAL PARTITION NOTES AND DETAILS. REFER TO SHEET A0.11 FOR PARTITION TYPE SCHEDULE.

ROOM — ROOM NAME
02132 — (RE: ROOM FINISH SCHEDULE)
ROOM NUMBER
LEVEL
SECTOR/AREA

A230 — PARTITION TYPE (RE: PARTITION SCHEDULE)

ELEVATION NUMBER
01 / A11.01 — SHEET NUMBER
Ref

REFERENCE
10 / A7.101 — SIMM — BUILDING SECTION REFERENCE

N

0 6" 1'-0" 2'-0"

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PROJECT NUMBER
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SHEET TITLE
ENLARGED FLOOR PLAN - COMMUNICATIONS ROOMS

SHEET NUMBER
A4.01

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
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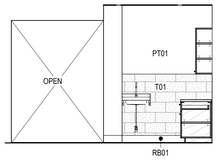
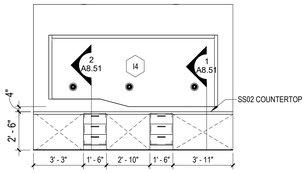
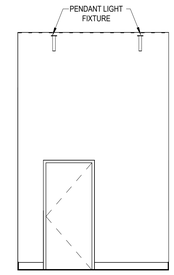


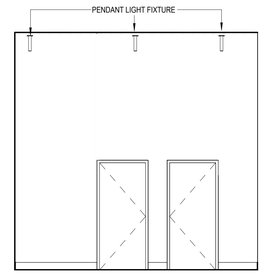
EVIDENCE DROP NORTH INT. ELEVATION 1/4" = 1'-0" 12



RECORDS RECEPTION EAST INTERIOR ELEVATION 1/4" = 1'-0" 9



LOBBY SOUTH INTERIOR ELEVATION 1/4" = 1'-0" 5



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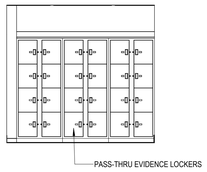
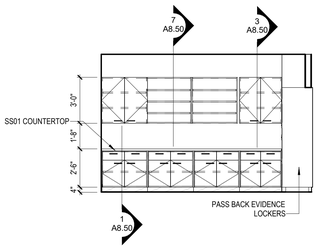
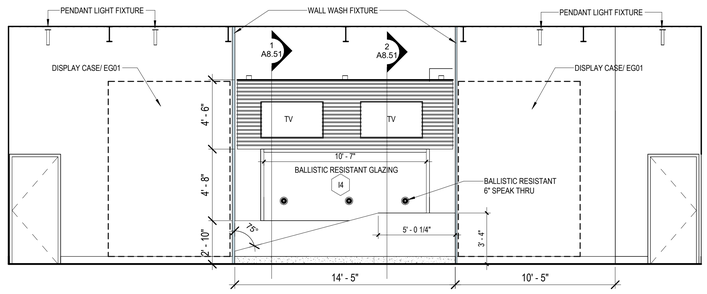


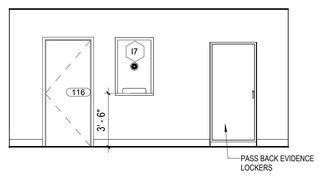
EVIDENCE DROP WEST INT. ELEVATION 1/4" = 1'-0" 11



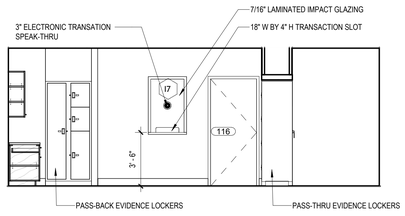
EVIDENCE DROP EAST INT. ELEVATION 1/4" = 1'-0" 8



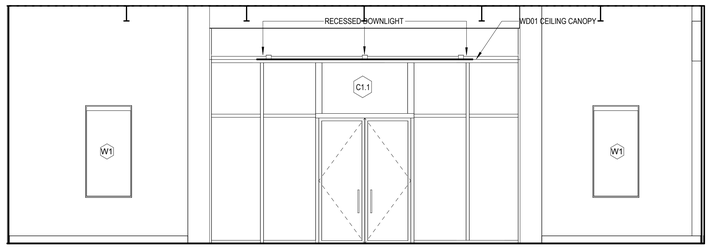
LOBBY WEST INTERIOR ELEVATION 1/4" = 1'-0" 3



CORRIDOR SIDE AT EVIDENCE DROP 1/4" = 1'-0" 10



EVIDENCE DROP SOUTH INT. ELEVATION 1/4" = 1'-0" 7



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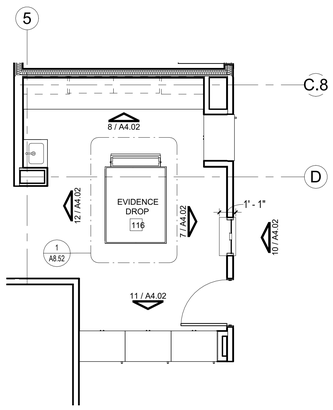
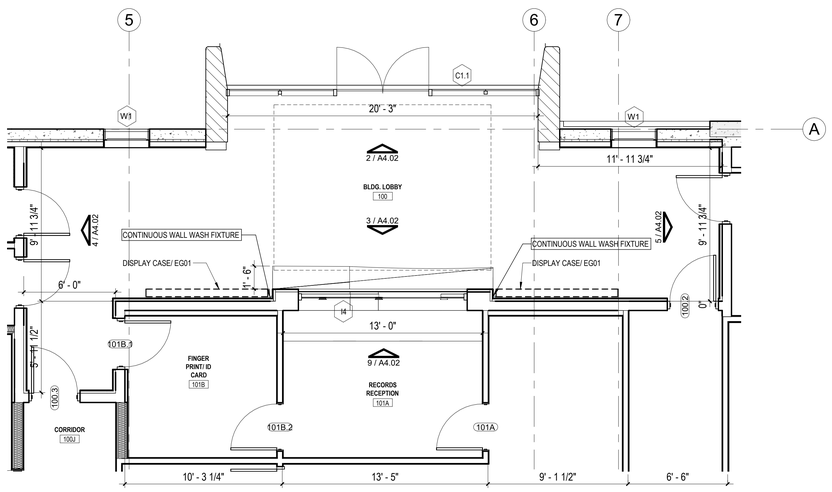


ENLARGED EVIDENCE DROP 116 1/4" = 1'-0" 6



LOBBY ENLARGED PARTIAL FLOOR PLAN 1/4" = 1'-0" 1

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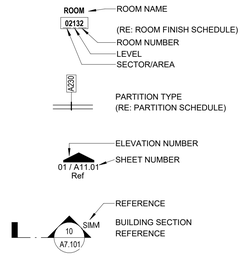
T.R	TOWEL RING
T.P.1	TOILET PAPER HOLDER
MR.1	MIRROR
SH.	CORNER SOAP SHELF
S.D.1	SOAP DISPENSER
G.B.1	42" GRAB BAR
G.B.2	36" GRAB BAR
S.B.	SHOWER BENCH SEAT
R.H.	ROBE HOOK
SCD.	SEAT COVER DISPENSER
S.N.1	SANITARY NAPKIN DISPOSAL

NOTE: SEE SHEETS G0.03 & G0.04 REGARDING ADA MOUNTING HEIGHTS AND REFER TO PROJECT SPECIFICATIONS FOR TOILET ACCESSORY MANUFACTURER AND MODEL NUMBERS.

X ###	PARTITION TYPE TAG
	CMU W/OUT FURRING
	CMU W/FURRING
	DRYWALL PARTITION
	DRYWALL PARTITION W/ BATT INSULATION
	TILT WALL W/ FURRING
	TILT WALL W/O FURRING

REFER TO SHEET A0.10 FOR GENERAL PARTITION NOTES AND DETAILS. REFER TO SHEET A0.11 FOR PARTITION TYPE SCHEDULE.





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CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

ARCHITECT OF RECORD

PGAL, Inc.
791 Park of Commerce Blvd.
Suite 400
Boca Raton, FL 33487
T 561 988 4002
www.pgal.com

CONSTRUCTION MANAGER/BUILDER

CORE CONSTRUCTION
1641 Worthington Rd
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FL 33409

PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

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STATE OF FLORIDA
JOBY L. BALINT
AR0016653
REGISTERED ARCHITECT

JOBY L. BALINT, AIA AR-0016653

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DRAWING HISTORY

№	DATE	DESCRIPTION
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
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CONSULTANT

PROJECT STATUS

90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER

1007657.00

SHEET TITLE

ENLARGED PLANS & INTERIOR ELEVATIONS - LOBBY & EVIDENCE DROP

SHEET NUMBER

A4.02

FILE NAME: Autodesk Docs://. 1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
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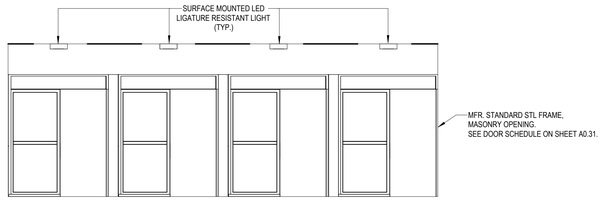
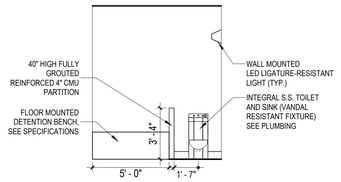
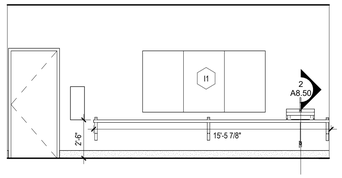


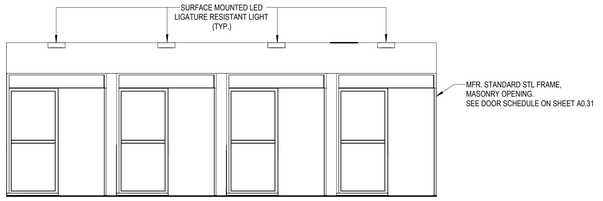
BOOKING SOUTH INTERIOR ELEVATION 1/4" = 1'-0" (7)



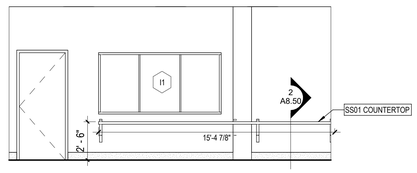
TYPICAL CELL INTERIOR ELEVATION 1/4" = 1'-0" (5)



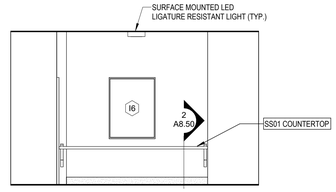
CONTROL SOUTH INTERIOR ELEVATION 1/4" = 1'-0" (3)



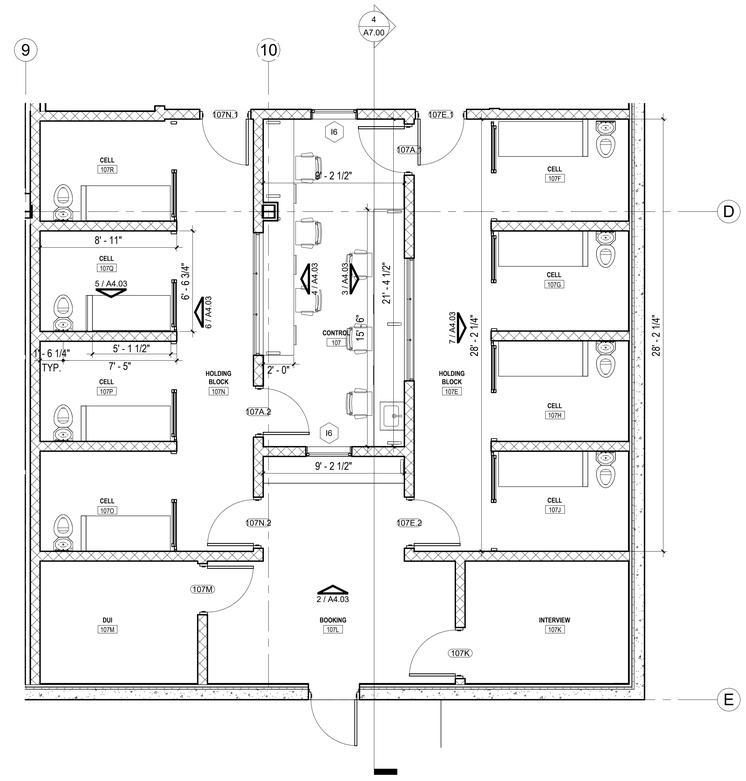
BOOKING NORTH INTERIOR ELEVATION 1/4" = 1'-0" (6)



CONTROL NORTH INTERIOR ELEVATION 1/4" = 1'-0" (4)



BOOKING EAST INTERIOR ELEVATION 1/4" = 1'-0" (2)



HOLDING CELL ENLARGED PARTIAL FLOORPLAN 1/4" = 1'-0" (1)

ENLARGED NOTES

1. DO NOT SCALE DRAWINGS, CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATIONS OR MISSING DIMENSIONS.
2. ALL DIMENSIONS SHOWN ARE FROM FACE OF STUD, GRID LINE, FACE OF MASONRY OR CENTER OF PLUMBING FIXTURE.
3. ALL DIMENSIONS NOTED AS "CLEAR" OR "FINISH" ARE TO FACE OF FINISH SURFACE TO MAINTAIN ADA CLEARANCES.
4. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFORMATION IN WRITING BEFORE EXECUTION OF WORK.
5. REFER TO SHEET G0.03 THROUGH G0.05 REGARDING TYPICAL FIXTURE AND ACCESSORIES FOR ADA MOUNTING HEIGHTS AND CLEARANCES ON THIS SHEET.
6. REFER TO SHEET G0.02 "GENERAL PROJECT INFORMATION" FOR GENERAL PROJECT GRAPHICS AND ABBREVIATIONS FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL FIELD COORDINATE LOCATION, SIZE AND TYPE OF NON-COMBUSTIBLE BLOCKING FOR INSTALLATION OF SIGNAGE, TOILET ACCESSORIES, HARDWARE, MILLWORK, ETC.
8. CONTRACTOR TO REVIEW ALL DRAWINGS (ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL) WITH SUBCONTRACTORS AS IT RELATES TO THE INSTALLATION AND FIELD COORDINATION OF PHONE, ELECTRICAL OUTLETS, DATA, CLEANOUTS, THERMOSTATS, FIRE ALARMS, FLOOR DRAINS, ACCESS TO VALVES, EQUIPMENT, ETC. THAT MAY OCCUPY THE SAME SPACE AS MILLWORK AND ADJUST AS NECESSARY. REVIEW CHANGES WITH ARCHITECT BEFORE PROCEEDING.
9. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
10. FLOOR / SHOWER FLOOR SLOPE SHALL NOT EXCEED 1:48 IN ANY DIRECTION TO DRAINS PER ADA REQUIREMENTS.

MILLWORK NOTES

1. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. ALL CABINETS TO BE SIZED BASED ON 3" STANDARD INCREMENTS.
3. PROVIDE FILLERS AS REQUIRED BASED ON OVERALL MILLWORK DIMENSIONS. FILLERS SHOULD BE 1 1/2" TO 3"
4. VERIFY EQUIPMENT DIMENSIONS AND COORDINATE WITH MILLWORK CONTRACTOR FOR SHOP DRAWINGS.

TOILET ACCESSORY NOMENCLATURE

SHR.	SHOWER CURTAIN + ROD
T.B	TOWEL BAR
T.R	TOWEL RING
T.P.1	TOILET PAPER HOLDER
MR.1	MIRROR
SH.	CORNER SOAP SHELF
S.D.1	SOAP DISPENSER
G.B.1	42" GRAB BAR
G.B.2	36" GRAB BAR
S.B.	SHOWER BENCH SEAT
R.H.	ROBE HOOK
SCD.	SEAT COVER DISPENSER
S.N.1	SANITARY NAPKIN DISPOSAL

NOTE: SEE SHEETS G0.03 & G0.04 REGARDING ADA MOUNTING HEIGHTS AND REFER TO PROJECT SPECIFICATIONS FOR TOILET ACCESSORY MANUFACTURER AND MODEL NUMBERS.

X ### — PARTITION TYPE TAG

CMU W/OUT FURRING

CMU W/FURRING

DRYWALL PARTITION

DRYWALL PARTITION W/ BATT INSULATION

TILT WALL W/ FURRING

TILT WALL W/O FURRING

REFER TO SHEET A0.10 FOR GENERAL PARTITION NOTES AND DETAILS. REFER TO SHEET A0.11 FOR PARTITION TYPE SCHEDULE.

ROOM 02132 — ROOM NAME (RE: ROOM FINISH SCHEDULE), ROOM NUMBER, LEVEL, SECTOR/AREA

A2.50 — PARTITION TYPE (RE: PARTITION SCHEDULE)

01 / A11.01 Ref — ELEVATION NUMBER, SHEET NUMBER

10 / A7.101 SIMM — REFERENCE; BUILDING SECTION REFERENCE

N

0 6" 1'-0" 2'-0"

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JOBY L. BALINT, AIA AR-0016653

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90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
ENLARGED PLANS & INTERIOR ELEVATIONS - HOLDING CELL

SHEET NUMBER
A4.03

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
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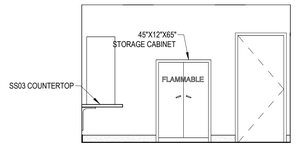
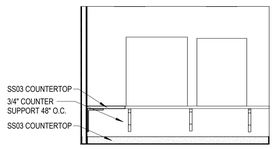
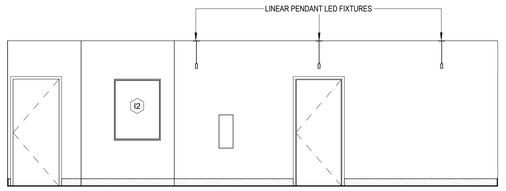


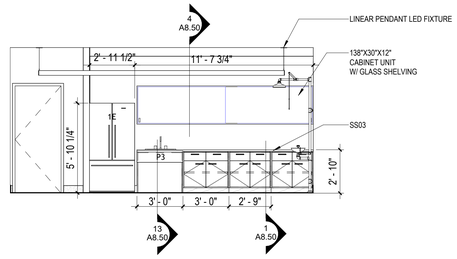
LATENT PROCESSING NORTH INTERIOR ELEVATION 1/4" = 1'-0" 8



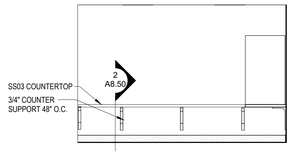
LATENT PROCESSING WEST INTERIOR ELEVATION 1/4" = 1'-0" 7



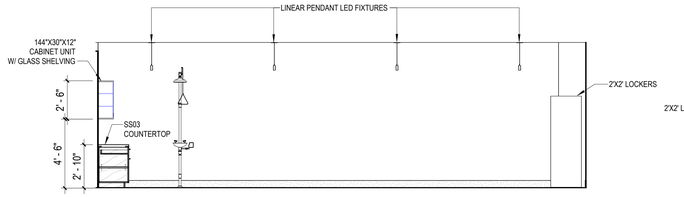
CRIME SCENE LAB SOUTH INTERIOR ELEVATION 1/4" = 1'-0" 5



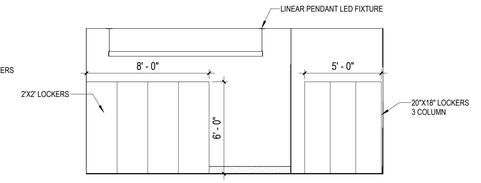
CRIME SCENE LAB WEST INTERIOR ELEVATION 1/4" = 1'-0" 3



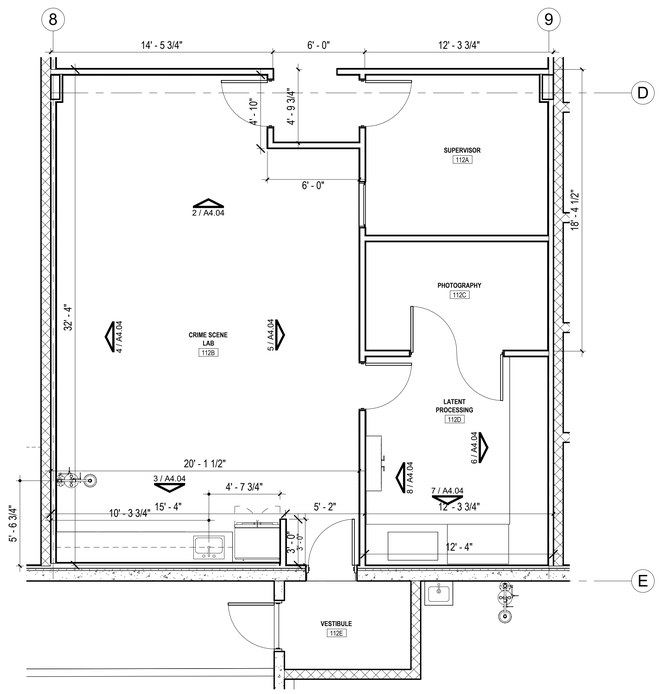
LATENT PROCESSING SOUTH INTERIOR ELEVATION 1/4" = 1'-0" 6



CRIME SCENE LAB NORTH INTERIOR ELEVATION 1/4" = 1'-0" 4



CRIME SCENE LB EAST INTERIOR ELEVATION 1/4" = 1'-0" 2



CRIME SCENE LAB ENLARGED PARTIAL FLOORPLAN 1/4" = 1'-0" 1

ENLARGED NOTES

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3. ALL DIMENSIONS NOTED AS "CLEAR" OR "FINISH" ARE TO FACE OF FINISH SURFACE TO MAINTAIN ADA CLEARANCES.
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T.R	TOWEL RING
T.P.1	TOILET PAPER HOLDER
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NOTE: SEE SHEETS G0.03 & G0.04 REGARDING ADA MOUNTING HEIGHTS AND REFER TO PROJECT SPECIFICATIONS FOR TOILET ACCESSORY MANUFACTURER AND MODEL NUMBERS.

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	CMU W/FURRING
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	DRYWALL PARTITION W/ BATT INSULATION
	TILT WALL W/ FURRING
	TILT WALL W/O FURRING

REFER TO SHEET A0.10 FOR GENERAL PARTITION NOTES AND DETAILS. REFER TO SHEET A0.11 FOR PARTITION TYPE SCHEDULE.

ROOM 02132 — ROOM NAME; (RE: ROOM FINISH SCHEDULE); ROOM NUMBER; LEVEL; SECTOR/AREA

A230 — PARTITION TYPE (RE: PARTITION SCHEDULE)

01 / A11.01 Ref — ELEVATION NUMBER; SHEET NUMBER

10 A7.101 SIMM — REFERENCE; BUILDING SECTION REFERENCE

N

0 6" 1'-0" 2'-0"

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CONSULTANT

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DATE OF ISSUE
10/14/2025

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RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
ENLARGED FLOOR PLAN - CRIME SCENE LAB

SHEET NUMBER
A4.04

FILE NAME: Autodesk Docs// 1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
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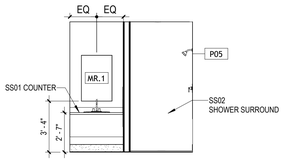
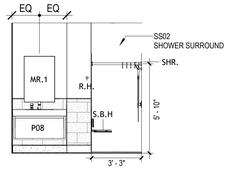
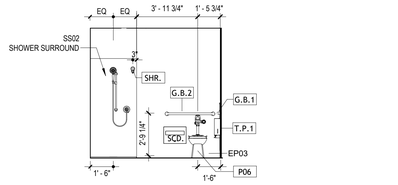


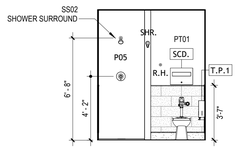
131D LOOKING SOUTH 1/4" = 1'-0" 12



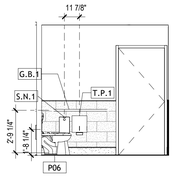
131H ADA LOOKING NORTH 1/4" = 1'-0" 7



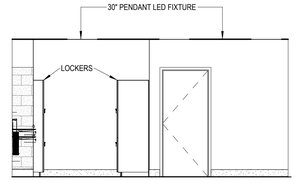
131H ADA LOOKING EAST 1/4" = 1'-0" 4



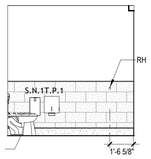
131B LOOKING WEST 1/4" = 1'-0" 11



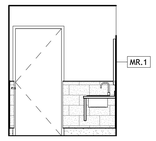
131H ADA LOOKING SOUTH 1/4" = 1'-0" 6



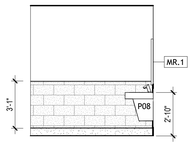
LOCKER ROOM NORTH ELEVATION 1/4" = 1'-0" 3



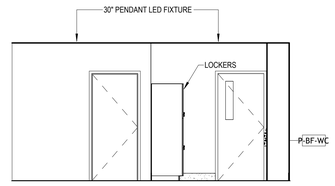
131D LOOKING NORTH 1/4" = 1'-0" 13



131B LOOKING EAST 1/4" = 1'-0" 10



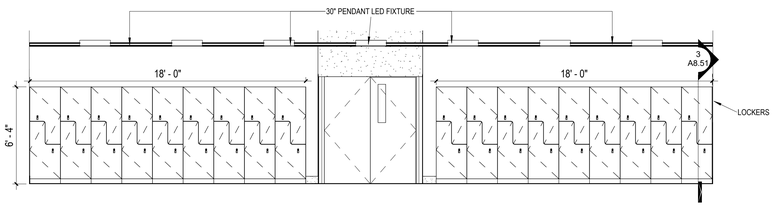
131H ADA LOOKING WEST 1/4" = 1'-0" 5



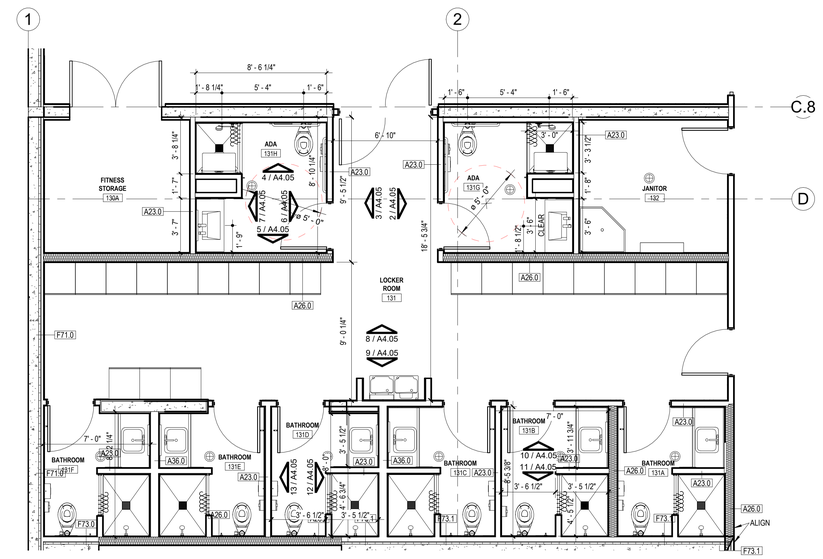
LOCKER ROOM SOUTH ELEVATION 1/4" = 1'-0" 2



LOCKER ROOM WEST ELEVATION 1/4" = 1'-0" 9



LOCKER ROOM EAST ELEVATION 1/4" = 1'-0" 8



LOCKER ROOM & BATHROOM ENLARGED PARTIAL FLOORPLAN 1/4" = 1'-0" 1

ENLARGED NOTES

1. DO NOT SCALE DRAWINGS, CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATIONS OR MISSING DIMENSIONS.
2. ALL DIMENSIONS SHOWN ARE FROM FACE OF STUD, GRID LINE, FACE OF MASONRY OR CENTER OF PLUMBING FIXTURE.
3. ALL DIMENSIONS NOTED AS "CLEAR" OR "FINISH" ARE TO FACE OF FINISH SURFACE TO MAINTAIN ADA CLEARANCES.
4. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFORMATION IN WRITING BEFORE EXECUTION OF WORK.
5. REFER TO SHEET G0.03 THROUGH G0.05 REGARDING TYPICAL FIXTURE AND ACCESSORIES FOR ADA MOUNTING HEIGHTS AND CLEARANCES ON THIS SHEET.
6. REFER TO SHEET G0.02 "GENERAL PROJECT INFORMATION" FOR GENERAL PROJECT GRAPHICS AND ABBREVIATIONS FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL FIELD COORDINATE LOCATION, SIZE AND TYPE OF NON-COMBUSTIBLE BLOCKING FOR INSTALLATION OF SIGNAGE, TOILET ACCESSORIES, HARDWARE, MILLWORK, ETC.
8. CONTRACTOR TO REVIEW ALL DRAWINGS (ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL) WITH SUBCONTRACTORS AS IT RELATES TO THE INSTALLATION AND FIELD COORDINATION OF PHONE, ELECTRICAL OUTLETS, DATA, CLEANOUTS, THERMOSTATS, FIRE ALARMS, FLOOR DRAINS, ACCESS TO VALVES, EQUIPMENT, ETC. THAT MAY OCCUPY THE SAME SPACE AS MILLWORK AND ADJUST AS NECESSARY. REVIEW CHANGES WITH ARCHITECT BEFORE PROCEEDING.
9. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
10. FLOOR / SHOWER FLOOR SLOPE SHALL NOT EXCEED 1:48 IN ANY DIRECTION TO DRAINS PER ADA REQUIREMENTS.

MILLWORK NOTES

1. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. ALL CABINETS TO BE SIZED BASED ON 3" STANDARD INCREMENTS.
3. PROVIDE FILLERS AS REQUIRED BASED ON OVERALL MILLWORK DIMENSIONS. FILLERS SHOULD BE 1 1/2" TO 3"
4. VERIFY EQUIPMENT DIMENSIONS AND COORDINATE WITH MILLWORK CONTRACTOR FOR SHOP DRAWINGS.

TOILET ACCESSORY NOMENCLATURE

SHR.	SHOWER CURTAIN + ROD
T.B	TOWEL BAR
T.R	TOWEL RING
T.P.1	TOILET PAPER HOLDER
MR.1	MIRROR
SH.	CORNER SOAP SHELF
S.D.1	SOAP DISPENSER
G.B.1	42" GRAB BAR
G.B.2	36" GRAB BAR
S.B.	SHOWER BENCH SEAT
R.H.	ROBE HOOK
SCD.	SEAT COVER DISPENSER
S.N.1	SANITARY NAPKIN DISPOSAL

NOTE: SEE SHEETS G0.03 & G0.04 REGARDING ADA MOUNTING HEIGHTS AND REFER TO PROJECT SPECIFICATIONS FOR TOILET ACCESSORY MANUFACTURER AND MODEL NUMBERS.

X ###	PARTITION TYPE TAG
	CMU W/OUT FURRING
	CMU W/FURRING
	DRYWALL PARTITION
	DRYWALL PARTITION W/ BATT INSULATION
	TILT WALL W/ FURRING
	TILT WALL W/O FURRING

REFER TO SHEET A0.10 FOR GENERAL PARTITION NOTES AND DETAILS. REFER TO SHEET A0.11 FOR PARTITION TYPE SCHEDULE.

ROOM
02132
ROOM NAME
(RE: ROOM FINISH SCHEDULE)
ROOM NUMBER
LEVEL
SECTOR/AREA

A200
PARTITION TYPE
(RE: PARTITION SCHEDULE)

01 / A11.01
Ref
ELEVATION NUMBER
SHEET NUMBER

10
A7.101
SIM
REFERENCE
BUILDING SECTION REFERENCE

N

0 6" 1'-0" 2'-0"

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

ARCHITECT OF RECORD

PGAL, Inc.
791 Park of Commerce Blvd.
Suite 400
Boca Raton, FL 33487
T 561 988 4002
www.pgal.com

CONSTRUCTION MANAGER/BUILDER

CORE CONSTRUCTION
1641 Worthington Rd
West Palm Beach
FL 33409

PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

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STATE OF FLORIDA
JOBY L. BALINT
AR0016653
REGISTERED ARCHITECT

JOBY L. BALINT, AIA AR-0016653

NOTE: ELECTRONIC CODES SHALL HAVE BOTH SEAL AND VERIFIED DIGITAL SIGNATURE WITH DATE TO BE CONSIDERED SIGNED AND SEALED

DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

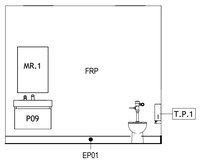
PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

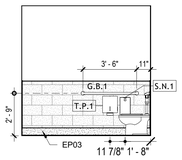
SHEET TITLE
ENLARGED PLANS & INTERIOR ELEVATIONS - LOCKER ROOM

SHEET NUMBER
A4.05

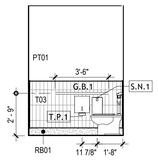
FILE NAME: Autodesk Docs://. 1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
DATE STAMP: 10/24/2025 1:36:35 PM



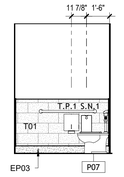
107S LOOKING NORTH 1/4" = 1'-0" 19



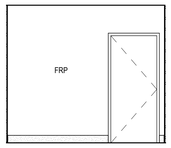
113D LOOKING NORTH 1/4" = 1'-0" 14



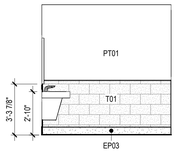
126A LOOKING NORTH 1/4" = 1'-0" 9



126C LOOKING NORTH 1/4" = 1'-0" 5



107S LOOKING SOUTH 1/4" = 1'-0" 18



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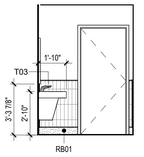
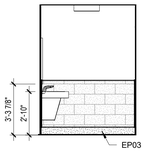
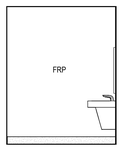


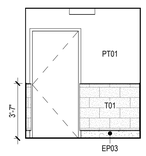
126A LOOKING SOUTH 1/4" = 1'-0" 8



126C LOOKING SOUTH 1/4" = 1'-0" 4



107S LOOKING WEST 1/4" = 1'-0" 17



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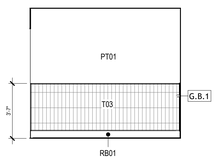
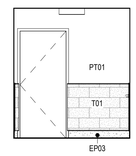
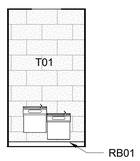


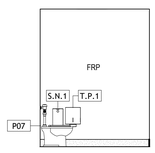
126A LOOKING WEST 1/4" = 1'-0" 7



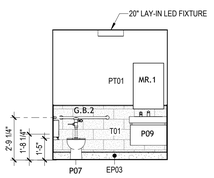
126C LOOKING WEST 1/4" = 1'-0" 3



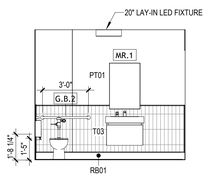
VESTIBULE 100I ELEVATION 1/4" = 1'-0" 20



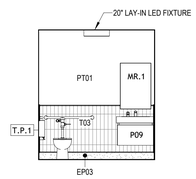
107S LOOKING EAST 1/4" = 1'-0" 16



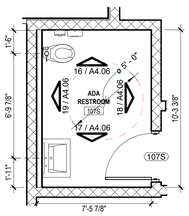
113D LOOKING EAST 1/4" = 1'-0" 11



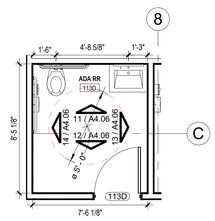
126A LOOKING EAST 1/4" = 1'-0" 6



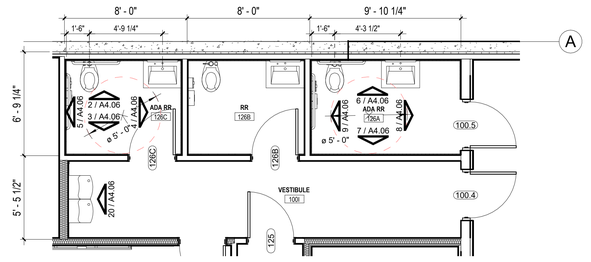
126C LOOKING EAST 1/4" = 1'-0" 2



RESTROOM ENLARGED PLAN 1/4" = 1'-0" 15



ADA RR ENLARGED PLAN 1/4" = 1'-0" 10



BATHROOMS ENLARGED PARTIAL FLOORPLAN 1/4" = 1'-0" 1

ENLARGED NOTES

1. DO NOT SCALE DRAWINGS, CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATIONS OR MISSING DIMENSIONS.
2. ALL DIMENSIONS SHOWN ARE FROM FACE OF STUD, GRID LINE, FACE OF MASONRY OR CENTER OF PLUMBING FIXTURE.
3. ALL DIMENSIONS NOTED AS "CLEAR" OR "FINISH" ARE TO FACE OF FINISH SURFACE TO MAINTAIN ADA CLEARANCES.
4. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFORMATION IN WRITING BEFORE EXECUTION OF WORK.
5. REFER TO SHEET G0.03 THROUGH G0.05 REGARDING TYPICAL FIXTURE AND ACCESSORIES FOR ADA MOUNTING HEIGHTS AND CLEARANCES ON THIS SHEET.
6. REFER TO SHEET G0.02 "GENERAL PROJECT INFORMATION" FOR GENERAL PROJECT GRAPHICS AND ABBREVIATIONS FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL FIELD COORDINATE LOCATION, SIZE AND TYPE OF NON-COMBUSTIBLE BLOCKING FOR INSTALLATION OF SIGNAGE, TOILET ACCESSORIES, HARDWARE, MILLWORK, ETC.
8. CONTRACTOR TO REVIEW ALL DRAWINGS (ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL) WITH SUBCONTRACTORS AS IT RELATES TO THE INSTALLATION AND FIELD COORDINATION OF PHONE, ELECTRICAL OUTLETS, DATA, CLEANOUTS, THERMOSTATS, FIRE ALARMS, FLOOR DRAINS, ACCESS TO VALVES, EQUIPMENT, ETC. THAT MAY OCCUPY THE SAME SPACE AS MILLWORK AND ADJUST AS NECESSARY. REVIEW CHANGES WITH ARCHITECT BEFORE PROCEEDING.
9. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
10. FLOOR / SHOWER FLOOR SLOPE SHALL NOT EXCEED 1:48 IN ANY DIRECTION TO DRAINS PER ADA REQUIREMENTS.

MILLWORK NOTES

1. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. ALL CABINETS TO BE SIZED BASED ON 3" STANDARD INCREMENTS.
3. PROVIDE FILLERS AS REQUIRED BASED ON OVERALL MILLWORK DIMENSIONS. FILLERS SHOULD BE 1 1/2" TO 3"
4. VERIFY EQUIPMENT DIMENSIONS AND COORDINATE WITH MILLWORK CONTRACTOR FOR SHOP DRAWINGS.

TOILET ACCESSORY NOMENCLATURE

SHR.	SHOWER CURTAIN + ROD
T.B	TOWEL BAR
T.R	TOWEL RING
T.P.1	TOILET PAPER HOLDER
MR.1	MIRROR
SH.	CORNER SOAP SHELF
S.D.1	SOAP DISPENSER
G.B.1	42" GRAB BAR
G.B.2	36" GRAB BAR
S.B.	SHOWER BENCH SEAT
R.H.	ROBE HOOK
SCD.	SEAT COVER DISPENSER
S.N.1	SANITARY NAPKIN DISPOSAL

NOTE: SEE SHEETS G0.03 & G0.04 REGARDING ADA MOUNTING HEIGHTS AND REFER TO PROJECT SPECIFICATIONS FOR TOILET ACCESSORY MANUFACTURER AND MODEL NUMBERS.

GRAPHIC LEGEND

- X ### — PARTITION TYPE TAG
- CMU W/OUT FURRING
- CMU W/FURRING
- DRYWALL PARTITION
- DRYWALL PARTITION W/ BATT INSULATION
- TILT WALL W/ FURRING
- TILT WALL W/O FURRING

REFER TO SHEET A0.10 FOR GENERAL PARTITION NOTES AND DETAILS. REFER TO SHEET A0.11 FOR PARTITION TYPE SCHEDULE.

- ROOM / 02132 — ROOM NAME (RE: ROOM FINISH SCHEDULE), ROOM NUMBER, LEVEL, SECTOR/AREA
- A230 — PARTITION TYPE (RE: PARTITION SCHEDULE)
- 01 / A11.01 Ref — ELEVATION NUMBER, SHEET NUMBER
- 10 / A7.101 — REFERENCE, BUILDING SECTION REFERENCE

N

0 6" 1'-0" 2'-0"

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

ARCHITECT OF RECORD

PGAL, Inc.
791 Park of Commerce Blvd.
Suite 400
Boca Raton, FL 33487
T 561 988 4002
www.pgal.com

CONSTRUCTION MANAGER/BUILDER

CORE CONSTRUCTION
1641 Worthington Rd
West Palm Beach
FL 33409

PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

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STATE OF FLORIDA — JOBY L. BALINT — AR0016653 — REGISTERED ARCHITECT

JOBY L. BALINT, AIA AR-0016653

NOTE: ELECTRONIC COPIES SHALL HAVE BOTH SEAL AND VERIFIED DIGITAL SIGNATURE WITH DATE TO BE CONSIDERED SIGNED AND SEALED

DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

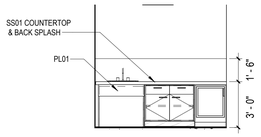
PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

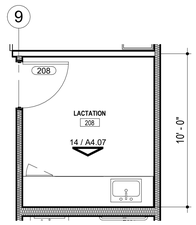
SHEET TITLE
ENLARGED PLANS & INTERIOR ELEVATIONS - RESTROOMS

SHEET NUMBER
A4.06

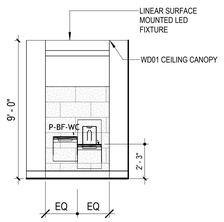
FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
DATE STAMP: 10/24/2025 1:36:44 PM



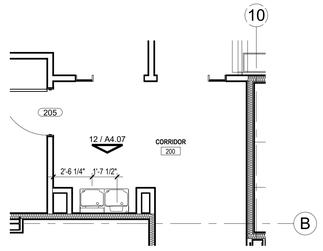
LACTATION ELEVATION 1/4" = 1'-0" 14



ENLARGED LACTATION 208 1/4" = 1'-0" 13



DRINKING FOUNTAIN ELEVATION 1/4" = 1'-0" 12



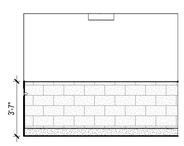
2ND FLOOR DRINKING FOUNTAIN ENLARGED PLAN 1/4" = 1'-0" 11



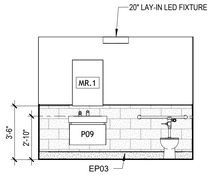
203F LOOKING WEST 1/4" = 1'-0" 10



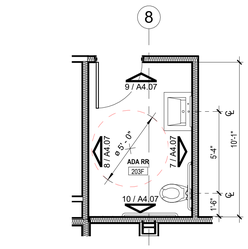
203F LOOKING EAST 1/4" = 1'-0" 9



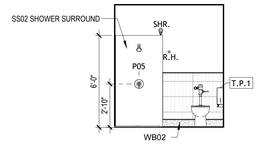
203F LOOKING NORTH 1/4" = 1'-0" 8



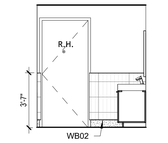
203F LOOKING SOUTH 1/4" = 1'-0" 7



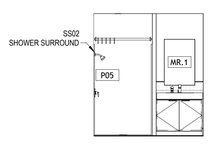
2ND FLOOR ADA RESTROOM ENLARGED PLAN 1/4" = 1'-0" 6



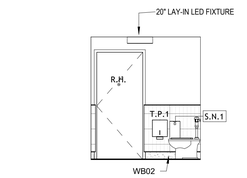
202E LOOKING NORTH 1/4" = 1'-0" 5



202E LOOKING SOUTH 1/4" = 1'-0" 4



202D LOOKING WEST 1/4" = 1'-0" 3



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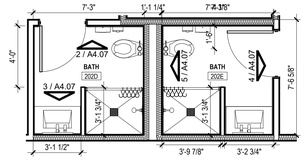

2ND FLOOR BATHROOMS ENLARGED PLAN 1/4" = 1'-0" 1

ENLARGED NOTES

1. DO NOT SCALE DRAWINGS, CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATIONS OR MISSING DIMENSIONS.
2. ALL DIMENSIONS SHOWN ARE FROM FACE OF STUD, GRID LINE, FACE OF MASONRY OR CENTER OF PLUMBING FIXTURE.
3. ALL DIMENSIONS NOTED AS "CLEAR" OR "FINISH" ARE TO FACE OF FINISH SURFACE TO MAINTAIN ADA CLEARANCES.
4. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFORMATION IN WRITING BEFORE EXECUTION OF WORK.
5. REFER TO SHEET G0.03 THROUGH G0.05 REGARDING TYPICAL FIXTURE AND ACCESSORIES FOR ADA MOUNTING HEIGHTS AND CLEARANCES ON THIS SHEET.
6. REFER TO SHEET G0.02 "GENERAL PROJECT INFORMATION" FOR GENERAL PROJECT GRAPHICS AND ABBREVIATIONS FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL FIELD COORDINATE LOCATION, SIZE AND TYPE OF NON-COMBUSTIBLE BLOCKING FOR INSTALLATION OF SIGNAGE, TOILET ACCESSORIES, HARDWARE, MILLWORK, ETC.
8. CONTRACTOR TO REVIEW ALL DRAWINGS (ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL) WITH SUBCONTRACTORS AS IT RELATES TO THE INSTALLATION AND FIELD COORDINATION OF PHONE, ELECTRICAL OUTLETS, DATA, CLEANOUTS, THERMOSTATS, FIRE ALARMS, FLOOR DRAINS, ACCESS TO VALVES, EQUIPMENT, ETC. THAT MAY OCCUPY THE SAME SPACE AS MILLWORK AND ADJUST AS NECESSARY. REVIEW CHANGES WITH ARCHITECT BEFORE PROCEEDING.
9. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
10. FLOOR / SHOWER FLOOR SLOPE SHALL NOT EXCEED 1:48 IN ANY DIRECTION TO DRAINS PER ADA REQUIREMENTS.

MILLWORK NOTES

1. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. ALL CABINETS TO BE SIZED BASED ON 3" STANDARD INCREMENTS.
3. PROVIDE FILLERS AS REQUIRED BASED ON OVERALL MILLWORK DIMENSIONS. FILLERS SHOULD BE 1 1/2" TO 3"
4. VERIFY EQUIPMENT DIMENSIONS AND COORDINATE WITH MILLWORK CONTRACTOR FOR SHOP DRAWINGS.

TOILET ACCESSORY NOMENCLATURE

SHR.	SHOWER CURTAIN + ROD
T.B	TOWEL BAR
T.R	TOWEL RING
T.P.1	TOILET PAPER HOLDER
MR.1	MIRROR
SH.	CORNER SOAP SHELF
S.D.1	SOAP DISPENSER
G.B.1	42" GRAB BAR
G.B.2	36" GRAB BAR
S.B.	SHOWER BENCH SEAT
R.H.	ROBE HOOK
SCD.	SEAT COVER DISPENSER
S.N.1	SANITARY NAPKIN DISPOSAL

NOTE: SEE SHEETS G0.03 & G0.04 REGARDING ADA MOUNTING HEIGHTS AND REFER TO PROJECT SPECIFICATIONS FOR TOILET ACCESSORY MANUFACTURER AND MODEL NUMBERS.

X ### PARTITION TYPE TAG

CMU W/OUT FURRING

CMU W/FURRING

DRYWALL PARTITION

DRYWALL PARTITION W/ BATT INSULATION

TILT WALL W/ FURRING

TILT WALL W/O FURRING

REFER TO SHEET A0.10 FOR GENERAL PARTITION NOTES AND DETAILS. REFER TO SHEET A0.11 FOR PARTITION TYPE SCHEDULE.

ROOM — ROOM NAME
02132 — (RE: ROOM FINISH SCHEDULE)
ROOM NUMBER
LEVEL
SECTOR/AREA

A230 — PARTITION TYPE (RE: PARTITION SCHEDULE)

ELEVATION NUMBER
01 / A11.01 — SHEET NUMBER
Ref

REFERENCE
10 / A7.101 — SIM — BUILDING SECTION REFERENCE

N

0 6" 1'-0" 2'-0"

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

ARCHITECT OF RECORD

PGAL

PGAL, Inc.
791 Park of Commerce Blvd.
Suite 400
Boca Raton, FL 33487
T 561 988 4002
www.pgal.com

CONSTRUCTION MANAGER/BUILDER

CORE CONSTRUCTION
1641 Worthington Rd
West Palm Beach
FL 33409

PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

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STATE OF FLORIDA — JOBY L. BALINT — AR0016653 — REGISTERED ARCHITECT

JOBY L. BALINT, AIA AR-0016653

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DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

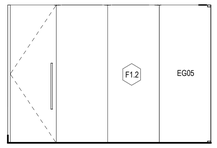
PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

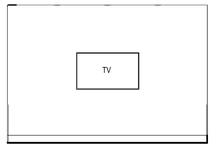
SHEET TITLE
ENLARGED PLANS & INTERIOR ELEVATIONS - RESTROOMS

SHEET NUMBER
A4.07

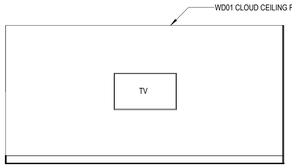
FILE NAME: Autodesk Docs://. 1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
DATE STAMP: 10/24/2025 1:36:50 PM



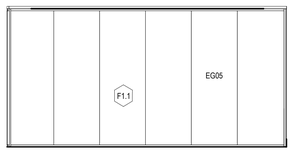
CONFERENCE ROOM WEST ELEVATION 1/4" = 1'-0" 10



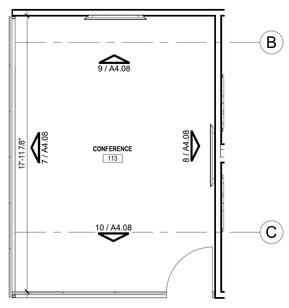
CONFERENCE ROOM EAST ELEVATION 1/4" = 1'-0" 9



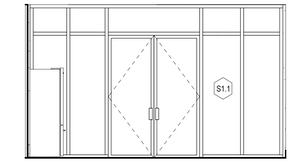
CONFERENCE ROOM SOUTH ELEVATION 1/4" = 1'-0" 8



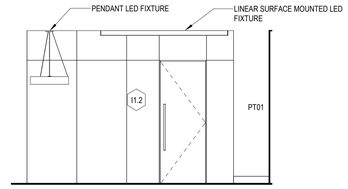
CONFERENCE ROOM NORTH ELEVATION 1/4" = 1'-0" 7



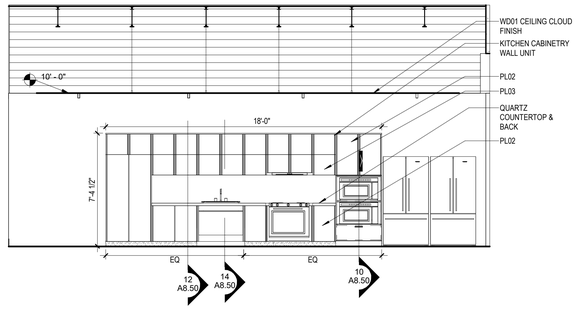
GROUND FLOOR CONFERENCE ROOM ENLARGED PLAN 1/4" = 1'-0" 6



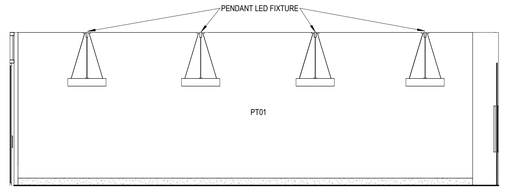
BREAKROOM NORTH ELEVATION 1/4" = 1'-0" 5



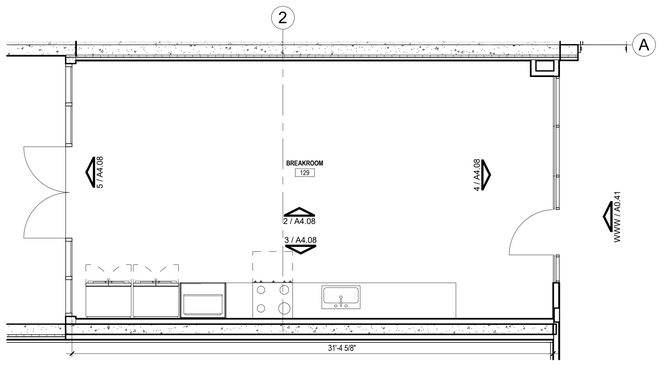
BREAKROOM SOUTH ELEVATION 1/4" = 1'-0" 4



BREAKROOM WEST ELEVATION 1/4" = 1'-0" 3



BREAKROOM EAST ELEVATION 1/4" = 1'-0" 2



GROUND FLOOR BREAKROOM ENLARGED PLAN 1/4" = 1'-0" 1

ENLARGED NOTES

1. DO NOT SCALE DRAWINGS, CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATIONS OR MISSING DIMENSIONS.
2. ALL DIMENSIONS SHOWN ARE FROM FACE OF STUD, GRID LINE, FACE OF MASONRY OR CENTER OF PLUMBING FIXTURE.
3. ALL DIMENSIONS NOTED AS "CLEAR" OR "FINISH" ARE TO FACE OF FINISH SURFACE TO MAINTAIN ADA CLEARANCES.
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5. REFER TO SHEET G0.03 THROUGH G0.05 REGARDING TYPICAL FIXTURE AND ACCESSORIES FOR ADA MOUNTING HEIGHTS AND CLEARANCES ON THIS SHEET.
6. REFER TO SHEET G0.02 "GENERAL PROJECT INFORMATION" FOR GENERAL PROJECT GRAPHICS AND ABBREVIATIONS FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL FIELD COORDINATE LOCATION, SIZE AND TYPE OF NON-COMBUSTIBLE BLOCKING FOR INSTALLATION OF SIGNAGE, TOILET ACCESSORIES, HARDWARE, MILLWORK, ETC.
8. CONTRACTOR TO REVIEW ALL DRAWINGS (ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL) WITH SUBCONTRACTORS AS IT RELATES TO THE INSTALLATION AND FIELD COORDINATION OF PHONE, ELECTRICAL OUTLETS, DATA, CLEANOUTS, THERMOSTATS, FIRE ALARMS, FLOOR DRAINS, ACCESS TO VALVES, EQUIPMENT, ETC. THAT MAY OCCUPY THE SAME SPACE AS MILLWORK AND ADJUST AS NECESSARY. REVIEW CHANGES WITH ARCHITECT BEFORE PROCEEDING.
9. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
10. FLOOR / SHOWER FLOOR SLOPE SHALL NOT EXCEED 1:48 IN ANY DIRECTION TO DRAINS PER ADA REQUIREMENTS.

MILLWORK NOTES

1. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. ALL CABINETS TO BE SIZED BASED ON 3" STANDARD INCREMENTS.
3. PROVIDE FILLERS AS REQUIRED BASED ON OVERALL MILLWORK DIMENSIONS. FILLERS SHOULD BE 1 1/2" TO 3"
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TOILET ACCESSORY NOMENCLATURE

SHR.	SHOWER CURTAIN + ROD
T.B	TOWEL BAR
T.R	TOWEL RING
T.P.1	TOILET PAPER HOLDER
MR.1	MIRROR
SH.	CORNER SOAP SHELF
S.D.1	SOAP DISPENSER
G.B.1	42" GRAB BAR
G.B.2	36" GRAB BAR
S.B.	SHOWER BENCH SEAT
R.H.	ROBE HOOK
SCD.	SEAT COVER DISPENSER
S.N.1	SANITARY NAPKIN DISPOSAL

NOTE: SEE SHEETS G0.03 & G0.04 REGARDING ADA MOUNTING HEIGHTS AND REFER TO PROJECT SPECIFICATIONS FOR TOILET ACCESSORY MANUFACTURER AND MODEL NUMBERS.

X ### PARTITION TYPE TAG

CMU W/OUT FURRING

CMU W/FURRING

DRYWALL PARTITION

DRYWALL PARTITION W/ BATT INSULATION

TILT WALL W/ FURRING

TILT WALL W/O FURRING

REFER TO SHEET A0.10 FOR GENERAL PARTITION NOTES AND DETAILS. REFER TO SHEET A0.11 FOR PARTITION TYPE SCHEDULE.

ROOM 02132 — ROOM NAME; (RE: ROOM FINISH SCHEDULE); ROOM NUMBER; LEVEL; SECTOR/AREA

A230 — PARTITION TYPE (RE: PARTITION SCHEDULE)

01 / A11.01 Ref — ELEVATION NUMBER; SHEET NUMBER

10 / A7.101 SIM — REFERENCE; BUILDING SECTION REFERENCE

N

0 6" 1'-0" 2'-0"

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

ARCHITECT OF RECORD

PGAL, Inc.
791 Park of Commerce Blvd.
Suite 400
Boca Raton, FL 33487
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West Palm Beach
FL 33409

PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

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JOBY L. BALINT, AIA AR-0016653

DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

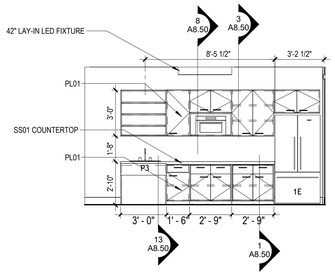
PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

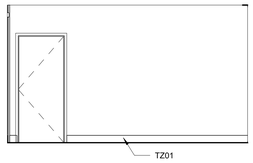
SHEET TITLE
ENLARGED PLANS & INTERIOR ELEVATIONS - BREAK ROOM

SHEET NUMBER
A4.08

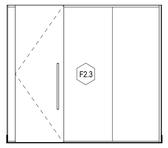
FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
DATE STAMP: 10/24/2025 4:27:08 PM



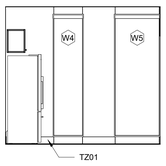
BREAKROOM NORTH ELEVATION 1/4" = 1'-0" **10**



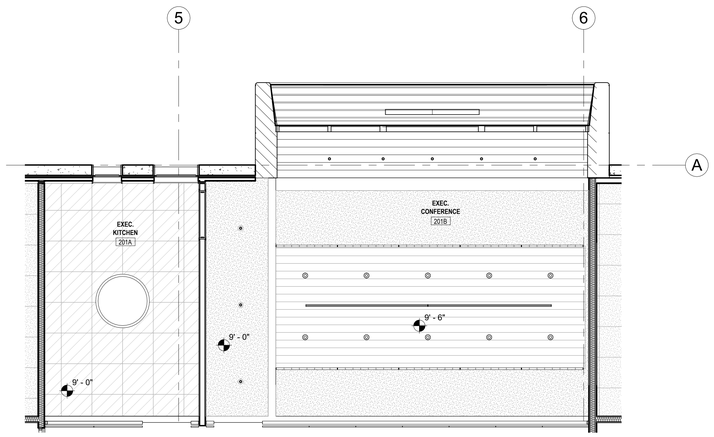
BREAKROOM SOUTH ELEVATION 1/4" = 1'-0" **9**



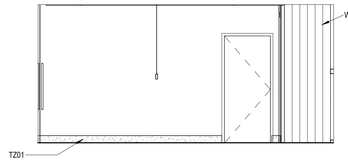
BREAKROOM WEST ELEVATION 1/4" = 1'-0" **8**



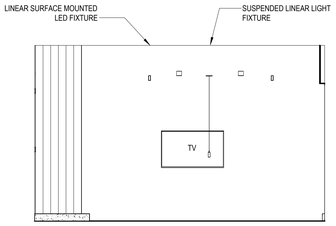
BREAKROOM EAST ELEVATION 1/4" = 1'-0" **7**



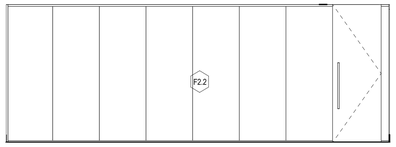
ENLARGED EXEC. CONF ROOM ENLARGED PARTIAL RCP 1/4" = 1'-0" **6**



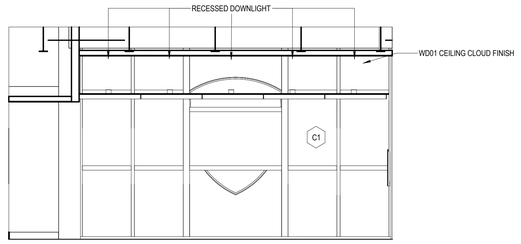
EXEC. CONFERENCE NORTH ELEVATION 1/4" = 1'-0" **5**



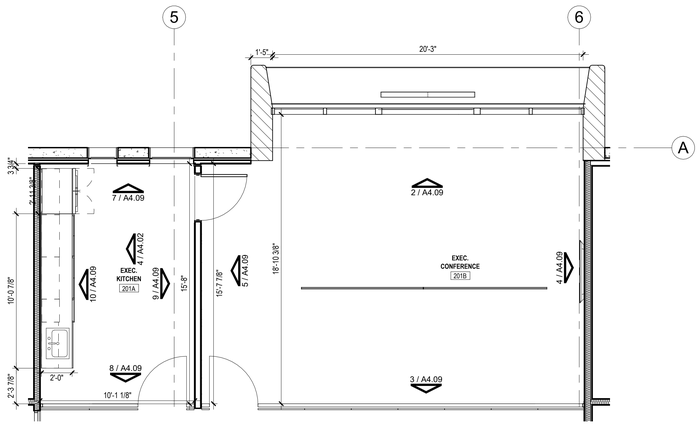
EXEC. CONFERENCE SOUTH ELEVATION 1/4" = 1'-0" **4**



EXEC. CONFERENCE WEST ELEVATION 1/4" = 1'-0" **3**



EXEC. CONFERENCE EAST ELEVATION 1/4" = 1'-0" **2**



EXEC. CONFERENCE AND BREAKROOM ENLARGED PARTIAL FLOORPLAN 1/4" = 1'-0" **1**

ENLARGED NOTES

1. DO NOT SCALE DRAWINGS, CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATIONS OR MISSING DIMENSIONS.
2. ALL DIMENSIONS SHOWN ARE FROM FACE OF STUD, GRID LINE, FACE OF MASONRY OR CENTER OF PLUMBING FIXTURE.
3. ALL DIMENSIONS NOTED AS "CLEAR" OR "FINISH" ARE TO FACE OF FINISH SURFACE TO MAINTAIN ADA CLEARANCES.
4. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFORMATION IN WRITING BEFORE EXECUTION OF WORK.
5. REFER TO SHEET G0.03 THROUGH G0.05 REGARDING TYPICAL FIXTURE AND ACCESSORIES FOR ADA MOUNTING HEIGHTS AND CLEARANCES ON THIS SHEET.
6. REFER TO SHEET G0.02 "GENERAL PROJECT INFORMATION" FOR GENERAL PROJECT GRAPHICS AND ABBREVIATIONS FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL FIELD COORDINATE LOCATION, SIZE AND TYPE OF NON-COMBUSTIBLE BLOCKING FOR INSTALLATION OF SIGNAGE, TOILET ACCESSORIES, HARDWARE, MILLWORK, ETC.
8. CONTRACTOR TO REVIEW ALL DRAWINGS (ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL) WITH SUBCONTRACTORS AS IT RELATES TO THE INSTALLATION AND FIELD COORDINATION OF PHONE, ELECTRICAL OUTLETS, DATA, CLEANOUTS, THERMOSTATS, FIRE ALARMS, FLOOR DRAINS, ACCESS TO VALVES, EQUIPMENT, ETC. THAT MAY OCCUPY THE SAME SPACE AS MILLWORK AND ADJUST AS NECESSARY. REVIEW CHANGES WITH ARCHITECT BEFORE PROCEEDING.
9. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
10. FLOOR / SHOWER FLOOR SLOPE SHALL NOT EXCEED 1:48 IN ANY DIRECTION TO DRAINS PER ADA REQUIREMENTS.

MILLWORK NOTES

1. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. ALL CABINETS TO BE SIZED BASED ON 3" STANDARD INCREMENTS.
3. PROVIDE FILLERS AS REQUIRED BASED ON OVERALL MILLWORK DIMENSIONS. FILLERS SHOULD BE 1 1/2" TO 3"
4. VERIFY EQUIPMENT DIMENSIONS AND COORDINATE WITH MILLWORK CONTRACTOR FOR SHOP DRAWINGS.

TOILET ACCESSORY NOMENCLATURE

SHR.	SHOWER CURTAIN + ROD
T.B	TOWEL BAR
T.R	TOWEL RING
T.P.1	TOILET PAPER HOLDER
MR.1	MIRROR
SH.	CORNER SOAP SHELF
S.D.1	SOAP DISPENSER
G.B.1	42" GRAB BAR
G.B.2	36" GRAB BAR
S.B.	SHOWER BENCH SEAT
R.H.	ROBE HOOK
SCD.	SEAT COVER DISPENSER
S.N.1	SANITARY NAPKIN DISPOSAL

NOTE: SEE SHEETS G0.03 & G0.04 REGARDING ADA MOUNTING HEIGHTS AND REFER TO PROJECT SPECIFICATIONS FOR TOILET ACCESSORY MANUFACTURER AND MODEL NUMBERS.

X ### — PARTITION TYPE TAG

CMU W/OUT FURRING

CMU W/FURRING

DRYWALL PARTITION

DRYWALL PARTITION W/ BATT INSULATION

TILT WALL W/ FURRING

TILT WALL W/O FURRING

REFER TO SHEET A0.10 FOR GENERAL PARTITION NOTES AND DETAILS. REFER TO SHEET A0.11 FOR PARTITION TYPE SCHEDULE.

ROOM / 02132 — ROOM NAME
(RE: ROOM FINISH SCHEDULE)
ROOM NUMBER
LEVEL
SECTOR/AREA

A2.50 — PARTITION TYPE
(RE: PARTITION SCHEDULE)

01 / A11.01 Ref — ELEVATION NUMBER
SHEET NUMBER

10 / A7.101 SIMM — REFERENCE
BUILDING SECTION REFERENCE

N

0 6" 1'-0" 2'-0"

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

ARCHITECT OF RECORD

PGAL, Inc.
791 Park of Commerce Blvd.
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Boca Raton, FL 33487
T 561 988 4002
www.pgal.com

CONSTRUCTION MANAGER/BUILDER

CORE CONSTRUCTION
1641 Worthington Rd
West Palm Beach
FL 33409

PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

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JOBY L. BALINT, AIA AR-0016653

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№	DATE	DESCRIPTION
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B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
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CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

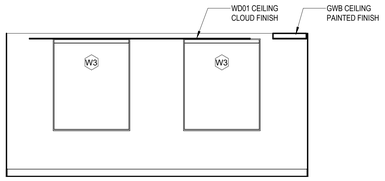
PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

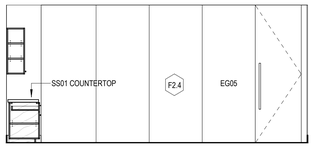
SHEET TITLE
ENLARGED PLANS & INTERIOR ELEVATIONS - EXECUTIVE CONFERENCE ROOM

SHEET NUMBER
A4.09

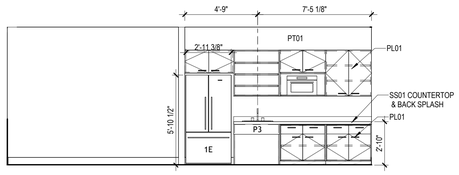
FILE NAME: Autodesk Docs://. 1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
DATE STAMP: 10/24/2025 1:37:09 PM



BREAKROOM WEST ELEVATION 1/4" = 1'-0" (7)

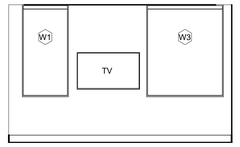


BREAKROOM EAST ELEVATION 1/4" = 1'-0" (6)

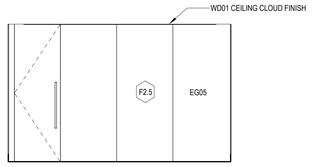


BREAKROOM NORTH ELEVATION 1/4" = 1'-0" (9)

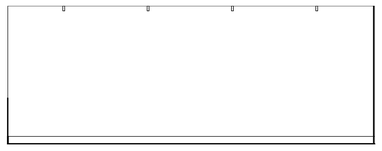
BREAKROOM SOUTH ELEVATION 1/4" = 1'-0" (8)



CONFERENCE ROOM WEST ELEVATION 1/4" = 1'-0" (5)

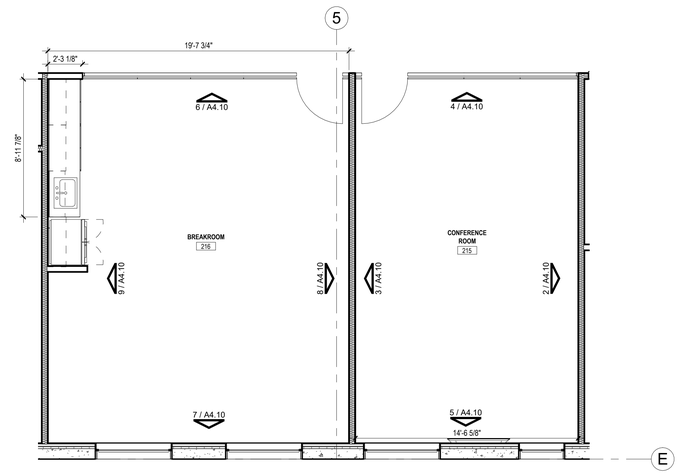


CONFERENCE ROOM EAST ELEVATION 1/4" = 1'-0" (4)



CONFERENCE ROOM NORTH ELEVATION 1/4" = 1'-0" (3)

CONFERENCE ROOM SOUTH ELEVATION 1/4" = 1'-0" (2)



SECOND LEVEL CONFERENCE AND BREAKROOM 1/4" = 1'-0" (1)

ENLARGED NOTES

1. DO NOT SCALE DRAWINGS, CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATIONS OR MISSING DIMENSIONS.
2. ALL DIMENSIONS SHOWN ARE FROM FACE OF STUD, GRID LINE, FACE OF MASONRY OR CENTER OF PLUMBING FIXTURE.
3. ALL DIMENSIONS NOTED AS "CLEAR" OR "FINISH" ARE TO FACE OF FINISH SURFACE TO MAINTAIN ADA CLEARANCES.
4. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFORMATION IN WRITING BEFORE EXECUTION OF WORK.
5. REFER TO SHEET G0.03 THROUGH G0.05 REGARDING TYPICAL FIXTURE AND ACCESSORIES FOR ADA MOUNTING HEIGHTS AND CLEARANCES ON THIS SHEET.
6. REFER TO SHEET G0.02 "GENERAL PROJECT INFORMATION" FOR GENERAL PROJECT GRAPHICS AND ABBREVIATIONS FOR ADDITIONAL INFORMATION.
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9. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
10. FLOOR / SHOWER FLOOR SLOPE SHALL NOT EXCEED 1:48 IN ANY DIRECTION TO DRAINS PER ADA REQUIREMENTS.

MILLWORK NOTES

1. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. ALL CABINETS TO BE SIZED BASED ON 3" STANDARD INCREMENTS.
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TOILET ACCESSORY NOMENCLATURE

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T.R	TOWEL RING
T.P.1	TOILET PAPER HOLDER
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SH.	CORNER SOAP SHELF
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R.H.	ROBE HOOK
SCD.	SEAT COVER DISPENSER
S.N.1	SANITARY NAPKIN DISPOSAL

NOTE: SEE SHEETS G0.03 & G0.04 REGARDING ADA MOUNTING HEIGHTS AND REFER TO PROJECT SPECIFICATIONS FOR TOILET ACCESSORY MANUFACTURER AND MODEL NUMBERS.

X ### PARTITION TYPE TAG

CMU W/OUT FURRING

CMU W/FURRING

DRYWALL PARTITION

DRYWALL PARTITION W/ BATT INSULATION

TILT WALL W/ FURRING

TILT WALL W/O FURRING

REFER TO SHEET A0.10 FOR GENERAL PARTITION NOTES AND DETAILS. REFER TO SHEET A0.11 FOR PARTITION TYPE SCHEDULE.

ROOM 02132 — ROOM NAME; (RE: ROOM FINISH SCHEDULE); ROOM NUMBER; LEVEL; SECTOR/AREA

A20a — PARTITION TYPE (RE: PARTITION SCHEDULE)

01 / A11.01 Ref — ELEVATION NUMBER; SHEET NUMBER

10 / A7.101 SIMM — REFERENCE; BUILDING SECTION REFERENCE

N

0 6" 1'-0" 2'-0"

CLIENT

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CONSULTANT

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RIVIERA BEACH POLICE DEPARTMENT

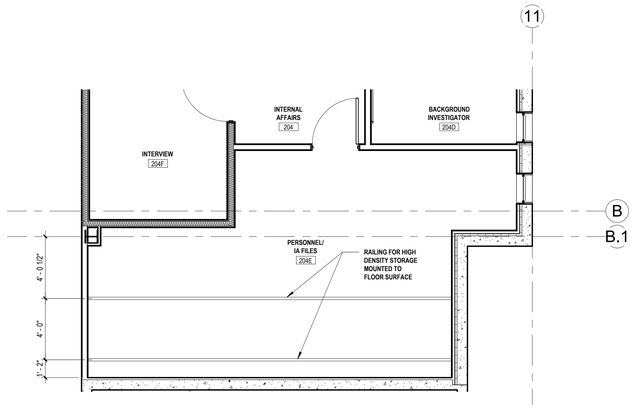
PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

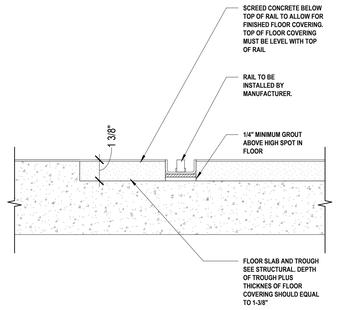
SHEET TITLE
ENLARGED PLANS & INTERIOR ELEVATIONS - CONFERENCE ROOM / BREAK ROOM

SHEET NUMBER
A4.10

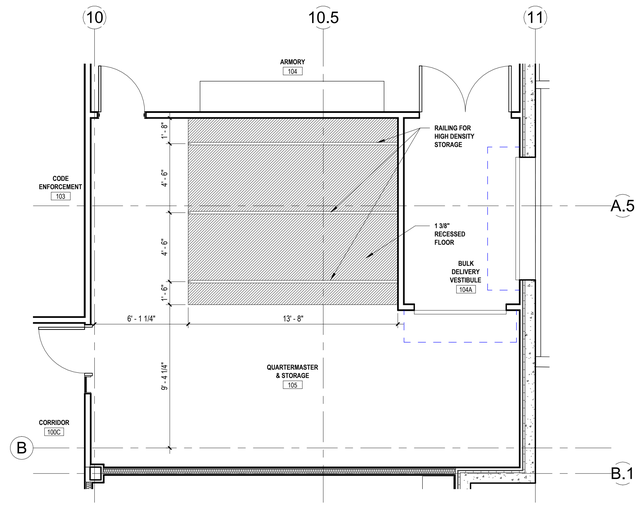
FILE NAME: Autodesk Docs://_1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
DATE STAMP: 10/24/2025 1:37:19 PM



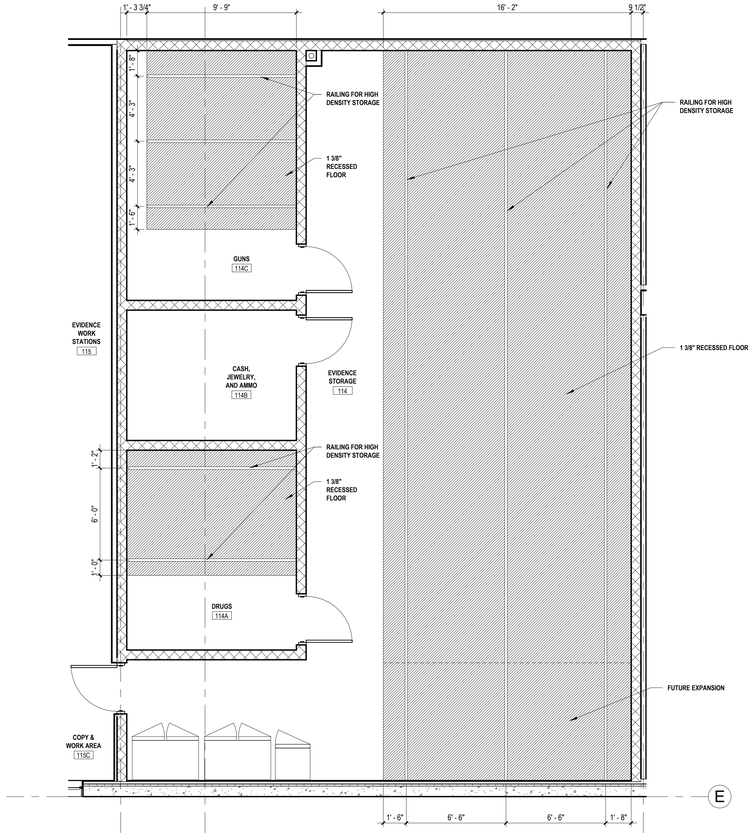
IA PERSONNEL FILE STORAGE PLAN 1/4" = 1'-0" (2)



RAILING DETAIL - HIGH DENSITY STORAGE 3" = 1'-0" (4)



ENLARGED QUARTERMASTER & STORAGE PLAN 1/4" = 1'-0" (3)



ENLARGED EVIDENCE STORAGE PLAN 1/4" = 1'-0" (1)

ENLARGED NOTES

1. DO NOT SCALE DRAWINGS, CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATIONS OR MISSING DIMENSIONS.
2. ALL DIMENSIONS SHOWN ARE FROM FACE OF STUD, GRID LINE, FACE OF MASONRY OR CENTER OF PLUMBING FIXTURE.
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MILLWORK NOTES

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SCD.	SEAT COVER DISPENSER
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NOTE: SEE SHEETS G0.03 & G0.04 REGARDING ADA MOUNTING HEIGHTS AND REFER TO PROJECT SPECIFICATIONS FOR TOILET ACCESSORY MANUFACTURER AND MODEL NUMBERS.

X ###	PARTITION TYPE TAG
	CMU W/OUT FURRING
	CMU W/FURRING
	DRYWALL PARTITION
	DRYWALL PARTITION W/ BATT INSULATION
	TILT WALL W/ FURRING
	TILT WALL W/O FURRING

REFER TO SHEET A0.10 FOR GENERAL PARTITION NOTES AND DETAILS. REFER TO SHEET A0.11 FOR PARTITION TYPE SCHEDULE.

ROOM 02132 — ROOM NAME; (RE: ROOM FINISH SCHEDULE); ROOM NUMBER; LEVEL; SECTOR/AREA

A230 — PARTITION TYPE (RE: PARTITION SCHEDULE)

01 / A11.01 Ref — ELEVATION NUMBER; SHEET NUMBER

10 / A7.101 SIM — REFERENCE; BUILDING SECTION REFERENCE

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CONSULTANT

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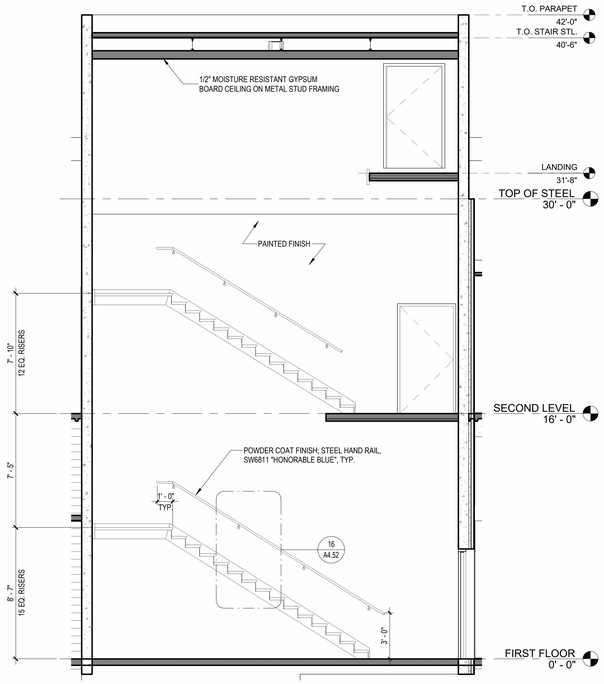
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

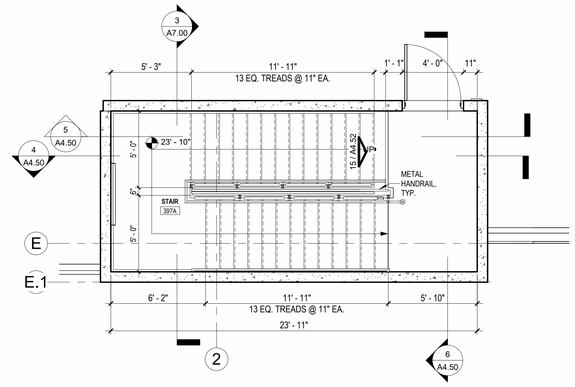
SHEET TITLE
ENLARGED PLANS - HIGH DENSITY STORAGE

SHEET NUMBER
A4.11

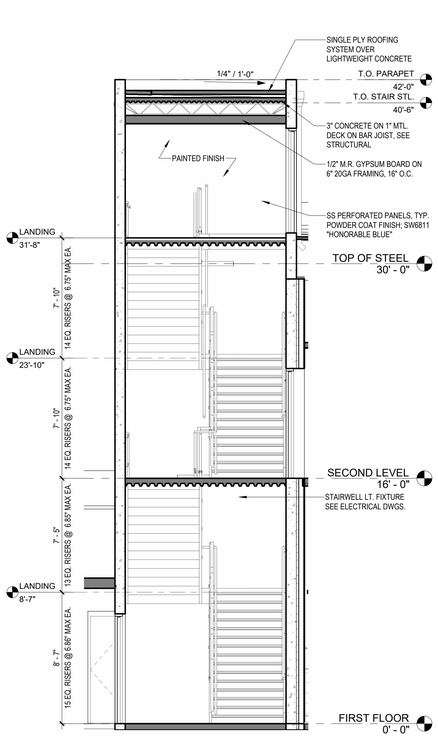
FILE NAME: Autodesk Docs://. 1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
DATE STAMP: 10/24/2025 1:37:23 PM



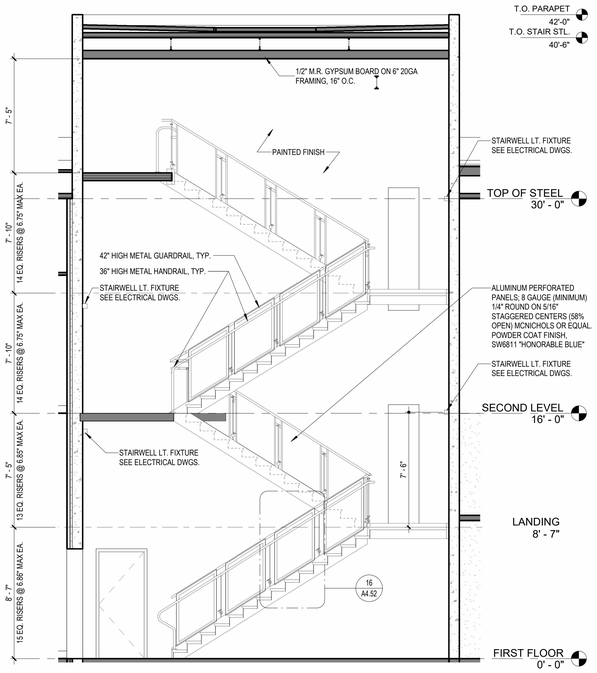
NORTH STAIR LONGITUDINAL SECTION 2 1/4" = 1'-0" 5



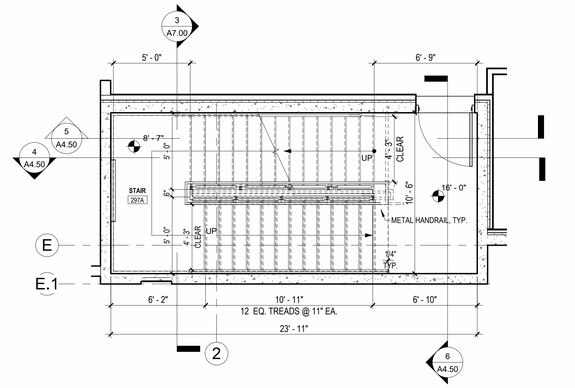
ENLARGED NORTH STAIR 3RD FLOORPLAN 1/4" = 1'-0" 3



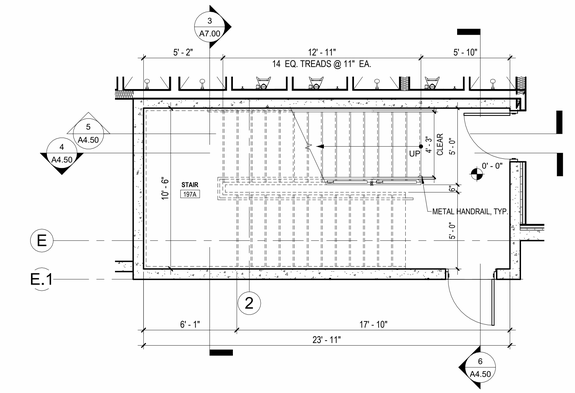
NORTH STAIR TRANSVERSE SECTION 1/4" = 1'-0" 6



NORTH STAIR LONGITUDINAL SECTION 1 1/4" = 1'-0" 4



ENLARGED NORTH STAIR 2ND FLOORPLAN 1/4" = 1'-0" 2



ENLARGED NORTH STAIR GROUND FLOORPLAN 1/4" = 1'-0" 1

VERTICAL CIRC. NOTES

1. DO NOT SCALE DRAWINGS, CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATIONS OR MISSING DIMENSIONS.
2. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTION INFORMATION BEFORE EXECUTION OF WORK.
3. BUILDING FINISH FLOOR ELEVATION IS 0'-0" FOR ARCHITECTURAL COORDINATION.
4. SEE CIVIL DRAWINGS FOR ACTUAL BUILDING DATUM ELEVATIONS.
5. SEE STRUCTURAL, MEP&Fp DRAWINGS FOR ADDITIONAL INFORMATION.
6. ALL CONCEALED BLOCKING SHALL BE NON-COMBUSTIBLE. CONTRACTOR SHALL FIELD COORDINATE LOCATION AND SIZE OF BLOCKING. SEE SHEET A0.10 FOR ADDITIONAL INFORMATION.
7. ELEVATOR BASIS OF DESIGN: TK ELEVATOR, ENDURA MRL HYDRAULIC, 100 FPM, TWIN POST (HOLELESS). PROVIDE CARD ACCESS CONTROLS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. STAIRS AND RAILINGS ARE A DELEGATED ENGINEERED SUBMITTAL BY A QUALIFIED FLORIDA PROFESSIONAL ENGINEER. PROVIDE SIGNED & SEALED SHOP DRAWINGS FOR REVIEW BY THE DESIGN TEAM PRIOR TO BUILDING DEPARTMENT SUBMISSION.
9. ALL INTERIOR STAIRS ARE CONCRETE FILLED METAL PAN TREADS AND LANDINGS.
10. ALL RISERS MUST HAVE A CLOSURE PLATE PER CHAPTER 10 FBC - BUILDING.
11. SEE ENLARGED STAIR PLANS FOR ADDITIONAL DESIGN CRITERIA.
12. INTERIOR STAIR WALLS WILL BE EXPOSED TILT. SKIM COAT IMPERFECTIONS AND PAINT USING A HIGH PERFORMANCE ACRYLIC SYSTEM. SEE PROJECT SPECIFICATIONS.

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- UP — INDICATES STAIR DIRECTION
- BREAK LINE
- SECTION CUT
- LIGHTWEIGHT INSULATING CONCRETE AND ROOFING SYSTEM
- CONCRETE

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
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JOBY L. BALINT, AIA AR-0016653

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CONSULTANT

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DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER
1007657.00

SHEET TITLE
ENLARGED PLANS AND SECTIONS - STAIR A

SHEET NUMBER
A4.50

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
DATE STAMP: 10/24/2025 1:37:41 PM

VERTICAL CIRC. NOTES

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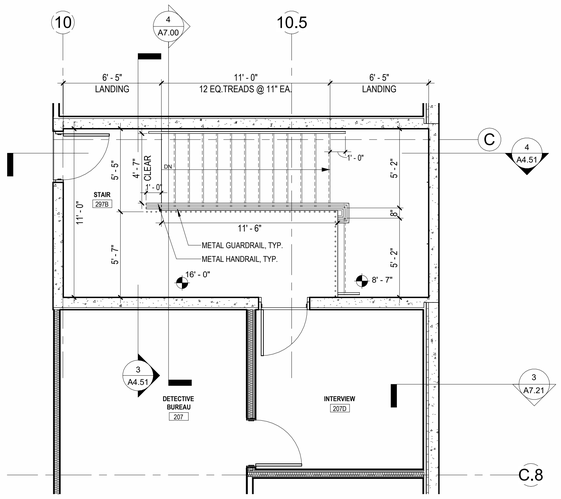
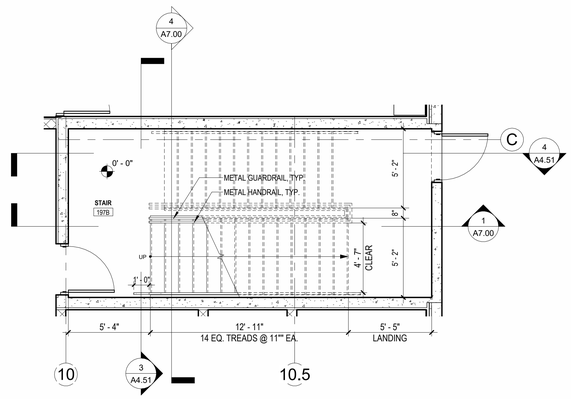
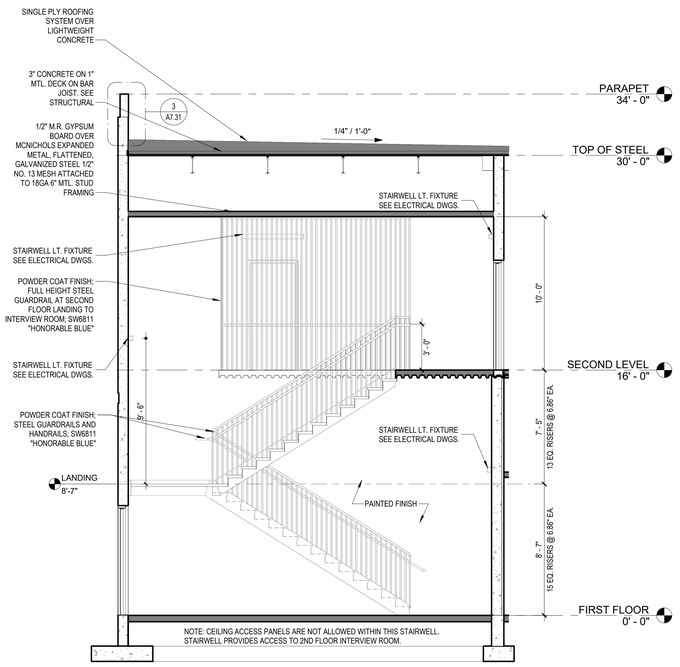


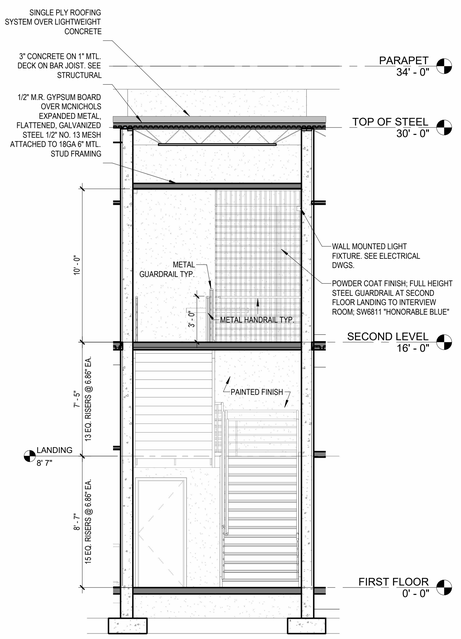
ENLARGED SOUTH STAIR 2ND FLOOR PLAN 1/4" = 1'-0" (2)



ENLARGED SOUTH GROUND STAIR 1/4" = 1'-0" (1)



SOUTH STAIR LONGITUDINAL SECTION 1/4" = 1'-0" (4)



SOUTH STAIR TRANSVERSE SECTION 1/4" = 1'-0" (3)

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SHEET TITLE

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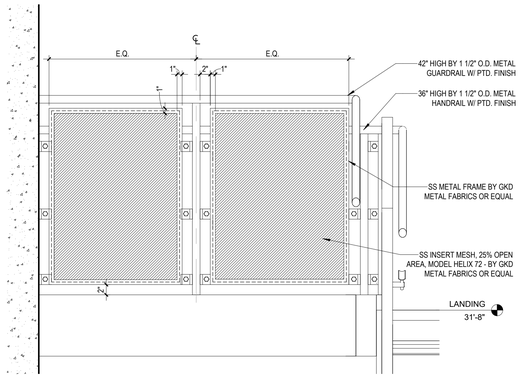
SHEET NUMBER

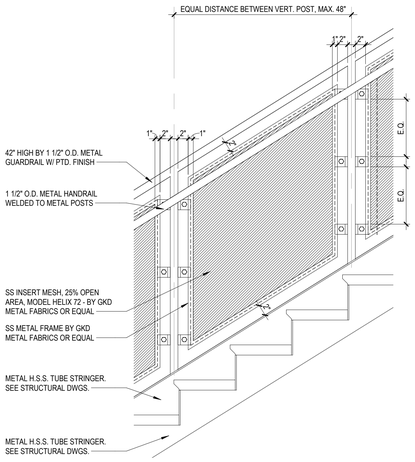
A4.51



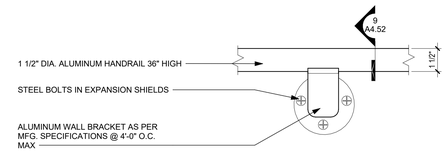
ROOF STAIR LANDING RAIL DETAIL @ STAIR A — 1" = 1'-0" — 15

GENERAL NOTES:

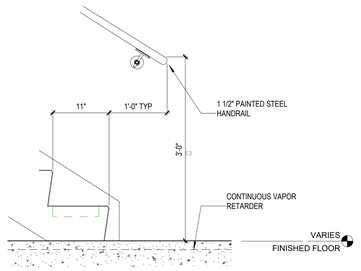
1. STAIR TREADS, LANDINGS AND RAMPS SHALL HAVE SLIP-RESISTANT SURFACES.
2. THE WALKING SURFACE OF TREADS AND LANDING OF STAIRWAY SHALL NOT BE SLOPED STEEPER THAN ONE UNIT VERTICAL IN 48 UNITS HORIZONTAL (2-PERCENT SLOPE) IN ANY DIRECTION
3. GUARDRAILS AND HANDRAILS SHALL HAVE A STRUCTURAL PERFORMANCE AS INDICATED IN THE SPECIFICATIONS SECTION 05521.
4. PROVIDE 43.5" CLEAR BETWEEN GUARD RAILS TO ACCOMMODATE AN OCCUPANT LOAD OF 435.



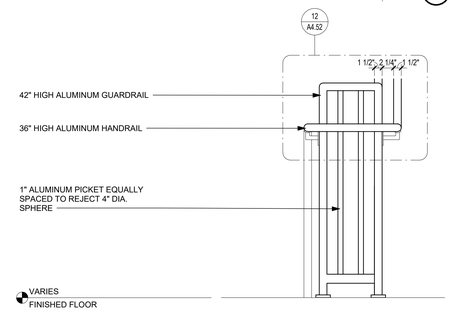
DETAIL - PERFORATED METAL PANEL @ STAIR A — 1" = 1'-0" — 16



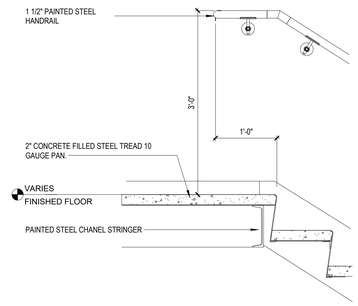
DETAIL @ RAILING MOUNTING BRACKET — 3" = 1'-0" — 8



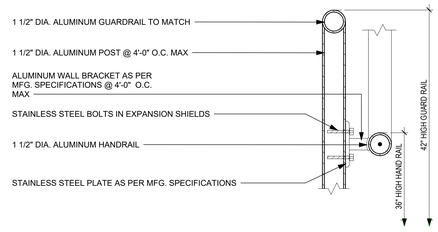
HANDRAIL EXTENSION DETAIL — 1" = 1'-0" — 7



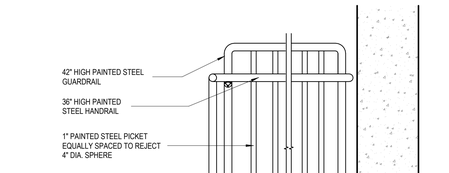
INTERIOR LANDING ELEVATION — 1" = 1'-0" — 6



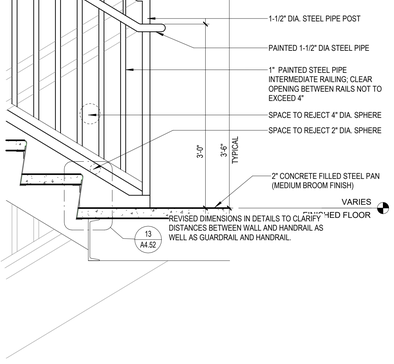
HANDRAIL EXTENSION DETAIL — 1" = 1'-0" — 3



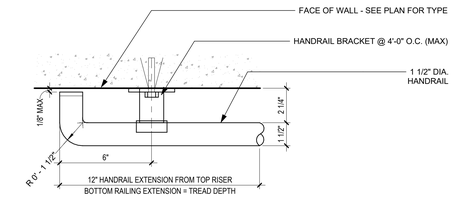
DETAIL @ POST — 3" = 1'-0" — 11



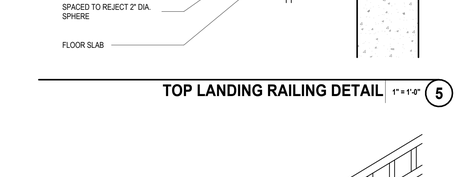
TOP LANDING RAILING DETAIL — 1" = 1'-0" — 5



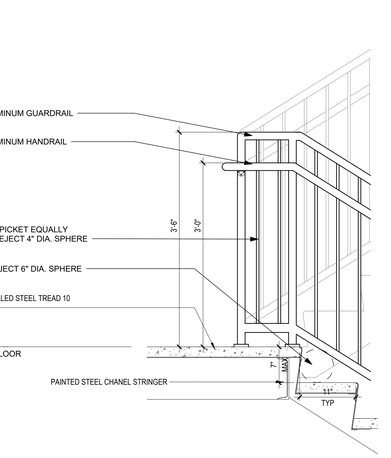
INTERMEDIATE LANDING-RAILING DETAIL — 1" = 1'-0" — 2



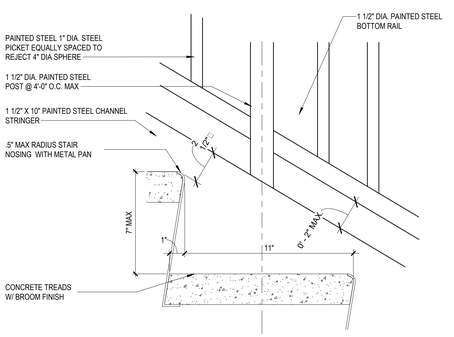
HANDRAIL EXTENSION DETAIL II — 3" = 1'-0" — 14



DETAIL @ POST — 3" = 1'-0" — 10

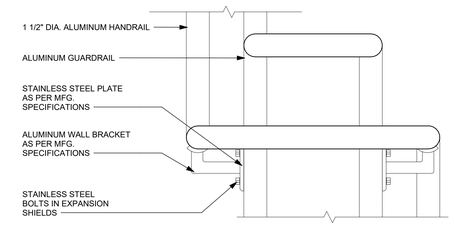


INTERMEDIATE LANDING-RAILING DETAIL — 1" = 1'-0" — 4

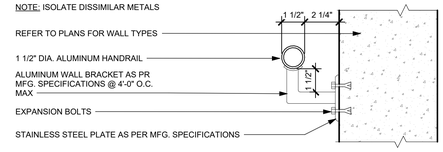


DETAIL @ RAILING SUPPORT — 3" = 1'-0" — 13

INTERMEDIATE LANDING-RAILING DETAIL — 1" = 1'-0" — 1



DETAIL @ HORIZONTAL TRANSITION — 3" = 1'-0" — 12



DETAIL @ RAILING MOUNTING BRACKET — 3" = 1'-0" — 9

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VERTICAL CIRCULATION DETAILS

SHEET NUMBER
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FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
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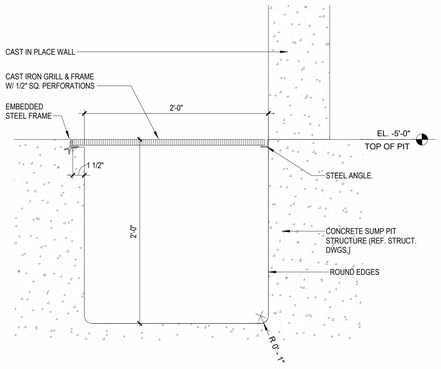
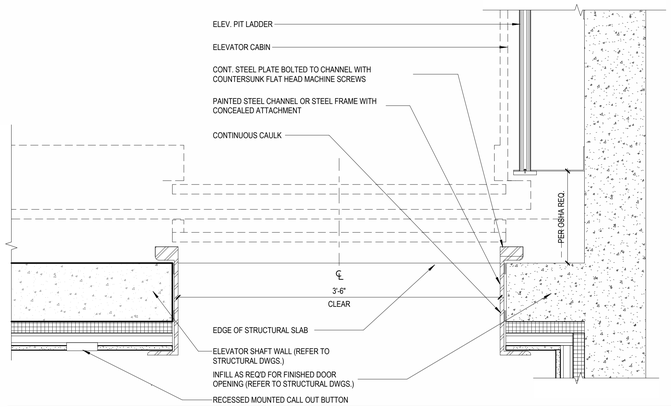
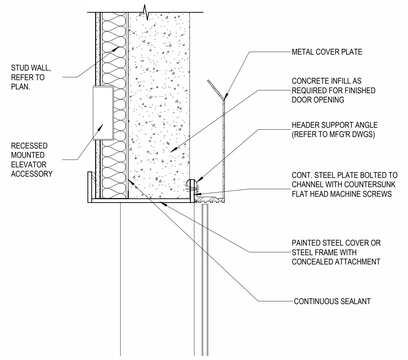


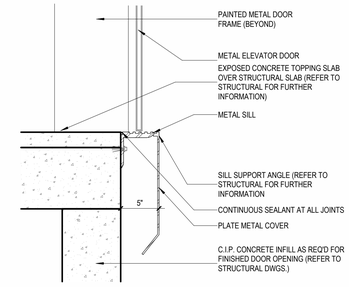
SUMP PIT DETAIL 1 1/2" = 1'-0" (9)



ELEVATOR JAMB DETAIL 1 1/2" = 1'-0" (6)



ELEVATOR HEAD DETAIL 1 1/2" = 1'-0" (4)

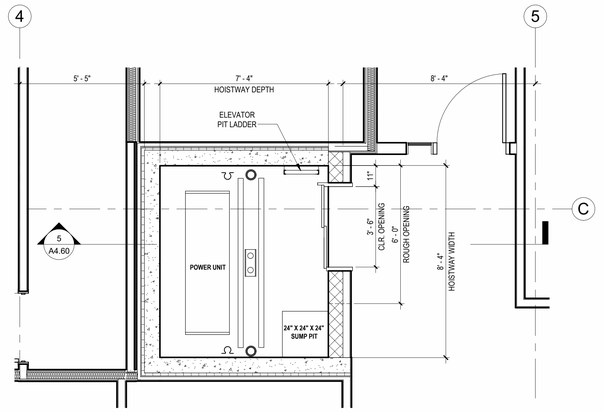


ELEVATOR SILL DETAIL 1 1/2" = 1'-0" (3)

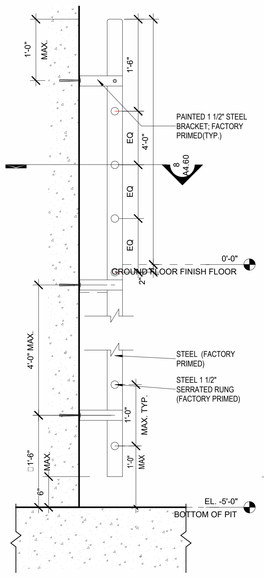
PIT LADDER PLAN 1" = 1'-0" (8)

ELEVATOR SECTION 3/8" = 1'-0" (5)

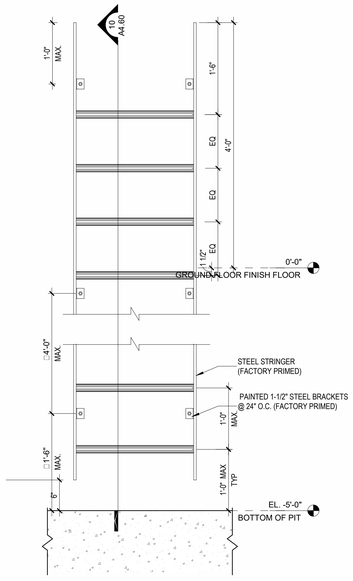
SECOND LEVEL ELEVATOR FLOOR PLAN 3/8" = 1'-0" (2)



ENLARGED GROUND LEVEL ELEVATOR PLAN 3/8" = 1'-0" (1)



PIT LADDER SECTION 1" = 1'-0" (10)



PIT LADDER ELEVATION 1" = 1'-0" (7)

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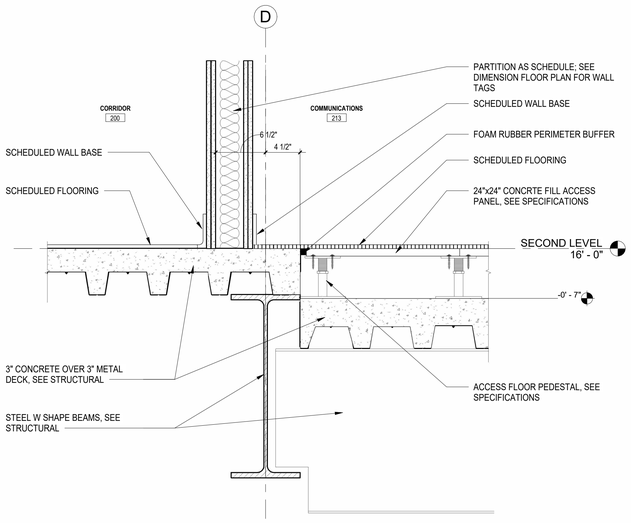
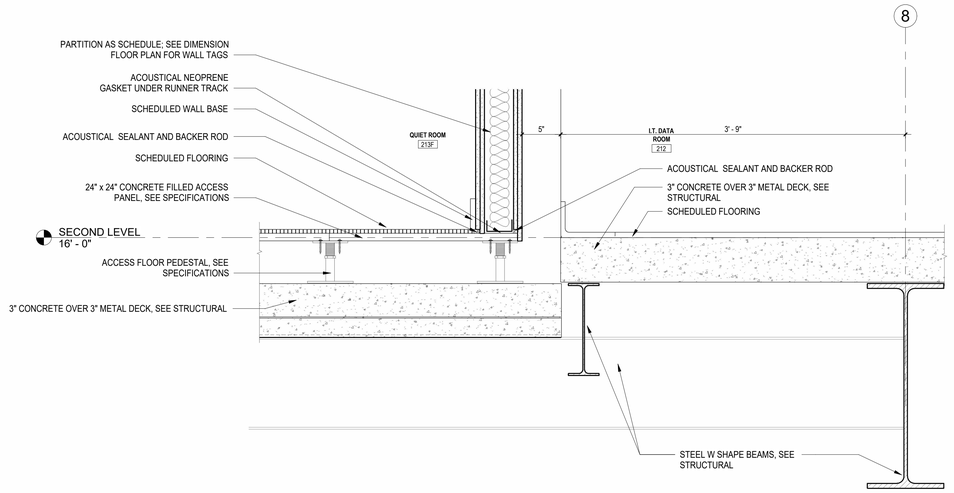
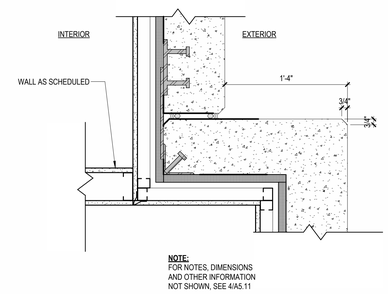


ACCESS FLOORING EDGE DETAIL 1 1/2" = 1'-0" 9



ACCESS FLOORING-PARTITION DETAIL 1 1/2" = 1'-0" 6

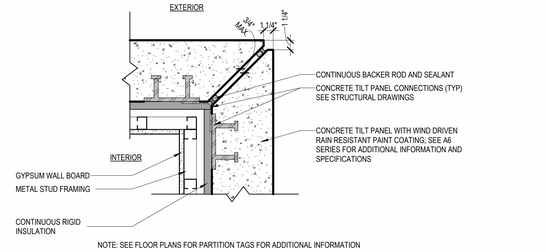


NOTE:
FOR NOTES, DIMENSIONS AND OTHER INFORMATION NOT SHOWN, SEE 4/A5.11

INSIDE CORNER WITH PROJECTION 1 1/2" = 1'-0" 3

ACCESS FLOORING EDGE DETAIL 1 1/2" = 1'-0" 8

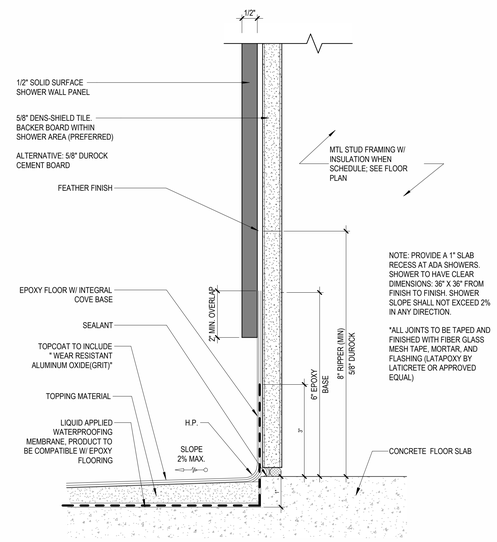
ACCESS FLOORING-PARTITION DETAIL 1 1/2" = 1'-0" 5



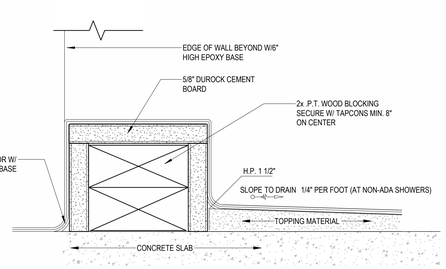
NOTE: SEE FLOOR PLANS FOR PARTITION TAGS FOR ADDITIONAL INFORMATION

TYPICAL PANEL CORNER DETAIL 1 1/2" = 1'-0" 2

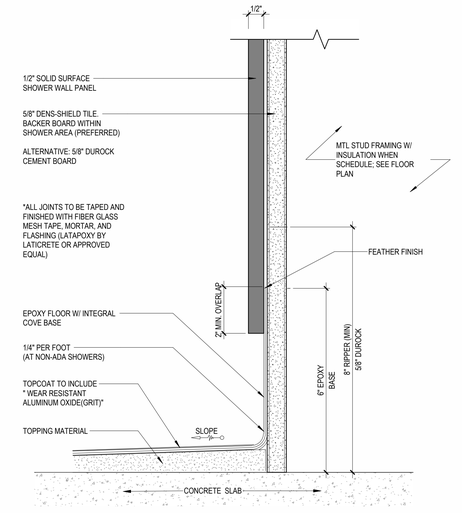
ADA SHOWER -THRESHOLD DETAIL 6" = 1'-0" 10



ADA SHOWER DETAIL 6" = 1'-0" 7



SHOWER EPOXY DETAIL 6" = 1'-0" 4



EPOXY SHOWER DETAIL 6" = 1'-0" 1

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RIVIERA BEACH, FL
33404

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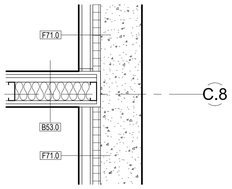
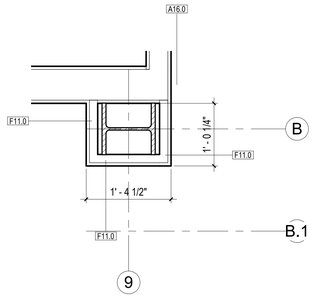
SHEET TITLE
PLAN DETAILS

SHEET NUMBER
A5.10



FRAMING DETAIL 1" = 1'-0" 16



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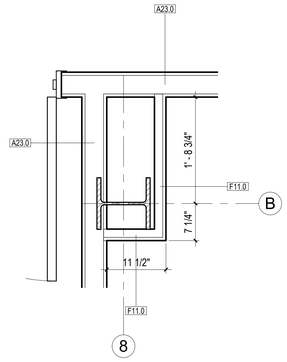
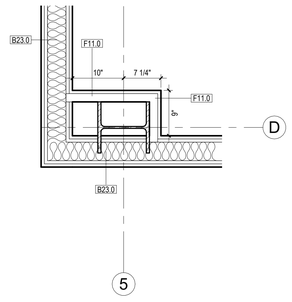


FRAMING DETAIL 1" = 1'-0" 10



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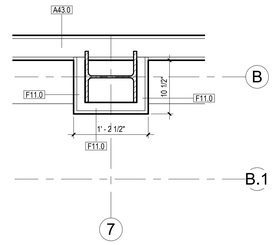

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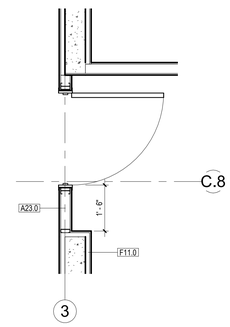

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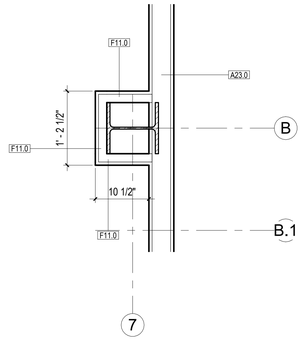

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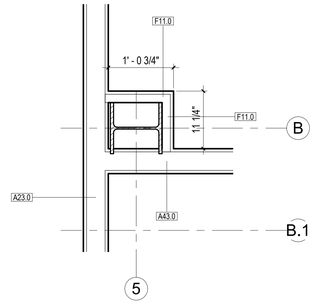

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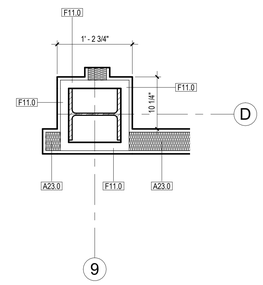
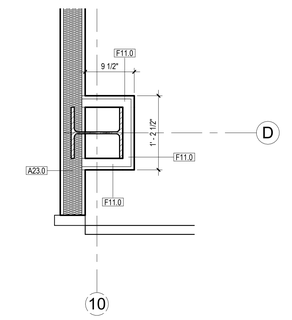


FRAMING DETAIL 1" = 1'-0" 9



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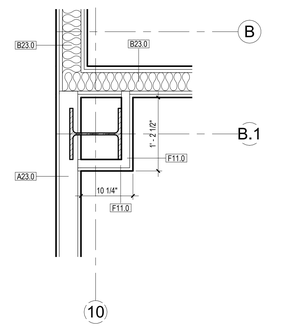

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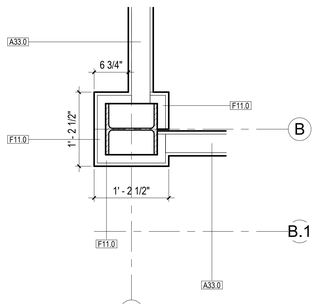

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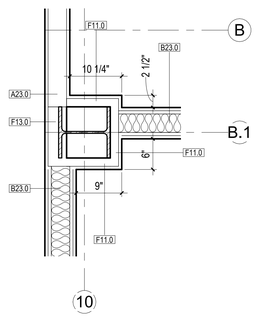

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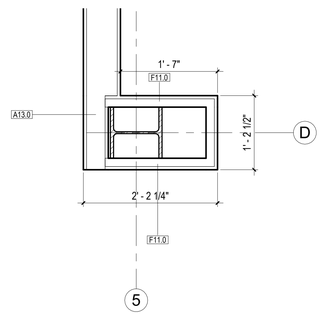

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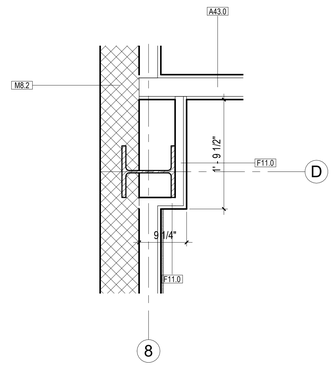
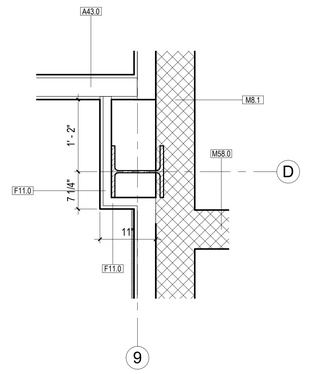


FRAMING DETAIL 1" = 1'-0" 8



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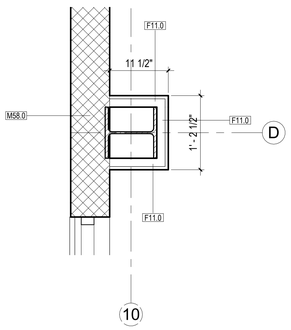

FRAMING DETAIL 1" = 1'-0" 1

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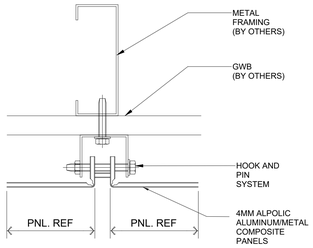
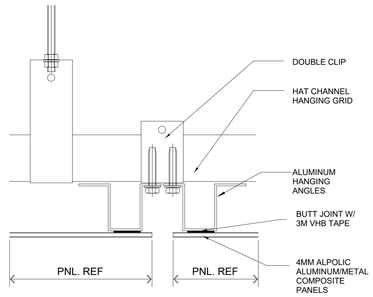
SHEET TITLE
COLUMN AND FRAMING PLAN DETAILS

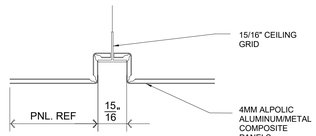
SHEET NUMBER
A5.11



HOOK AND PIN WALL VERTICAL

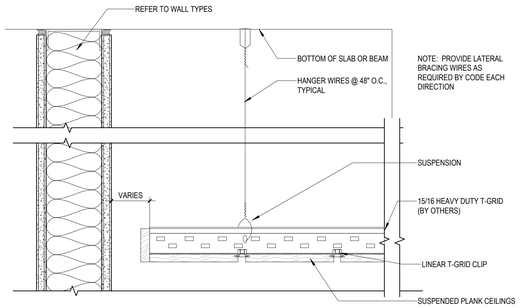


SUSPENDED CEILING

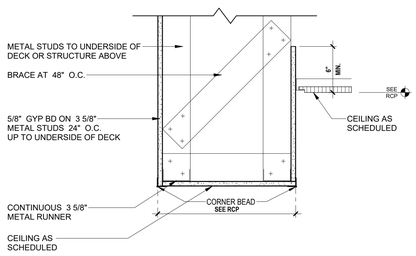


TYPICAL SUSPENDED GRID

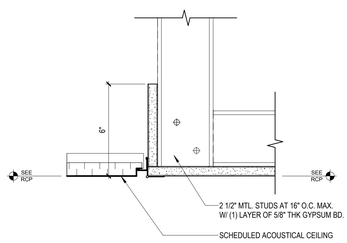
LOBBY METAL PANELS DETAILS 6" = 1'-0" 6



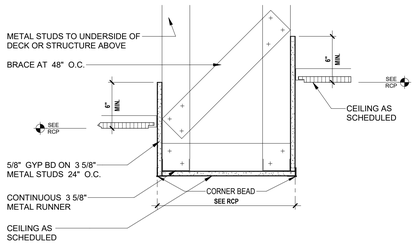
SUSPENDED WOOD PLANK CEILING 3" = 1'-0" 3



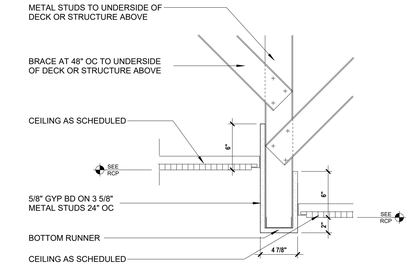
GYPSUM SOFFIT DETAIL. 1 1/2" = 1'-0" 10



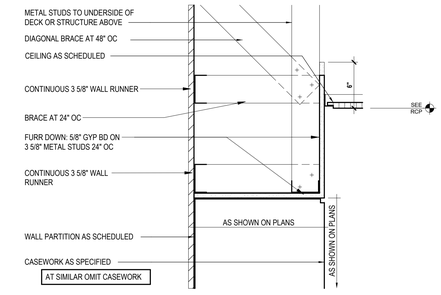
CEILING TRANSITION DETAIL 3" = 1'-0" 9



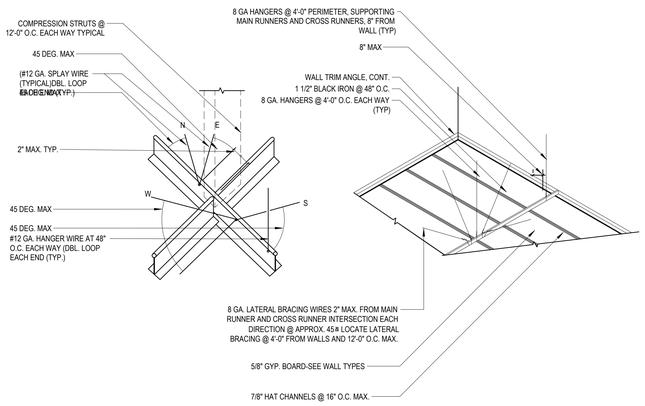
GYPSUM SOFFIT DETAIL 1 1/2" = 1'-0" 8



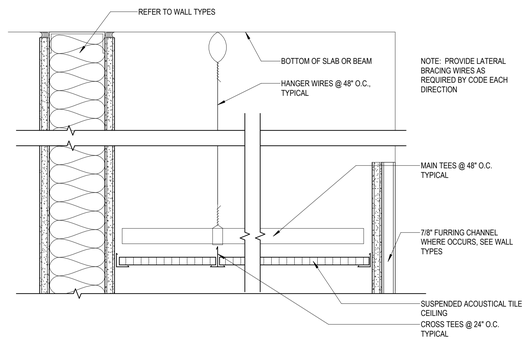
STANDARD GYPSUM CEILING TRANSITION - HEADER 1 1/2" = 1'-0" 5



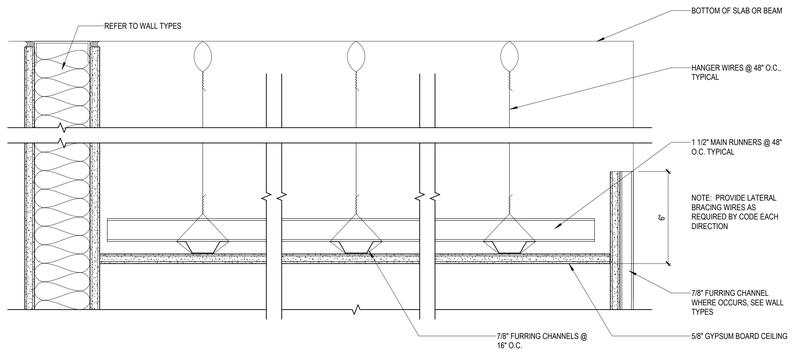
SOFFIT @ MILLWORK 1 1/2" = 1'-0" 2



SUSPENDED ACOUSTICAL TILE CEILING 3" = 1'-0" 7



SUSPENDED ACOUSTIC TILE CEILING 3" = 1'-0" 4



SUSPENDED GYPSUM BOARD CEILING 3" = 1'-0" 1

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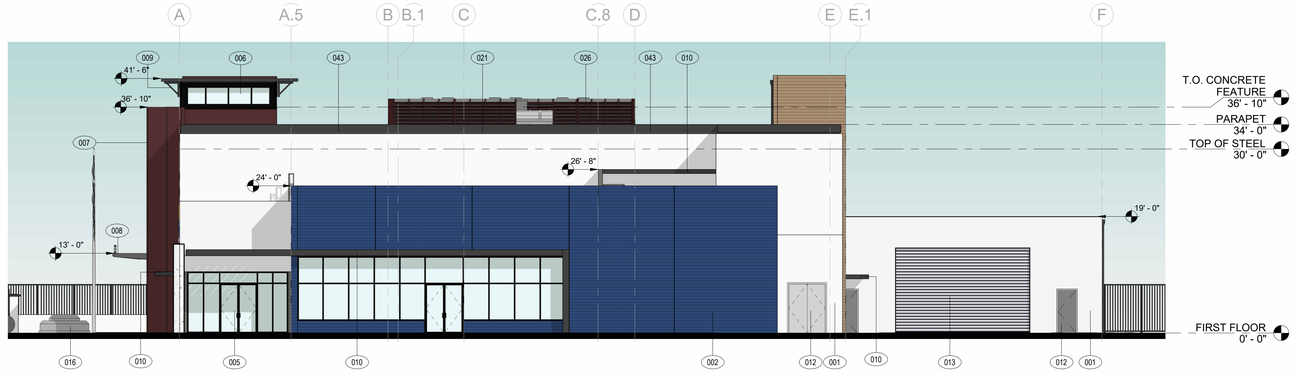
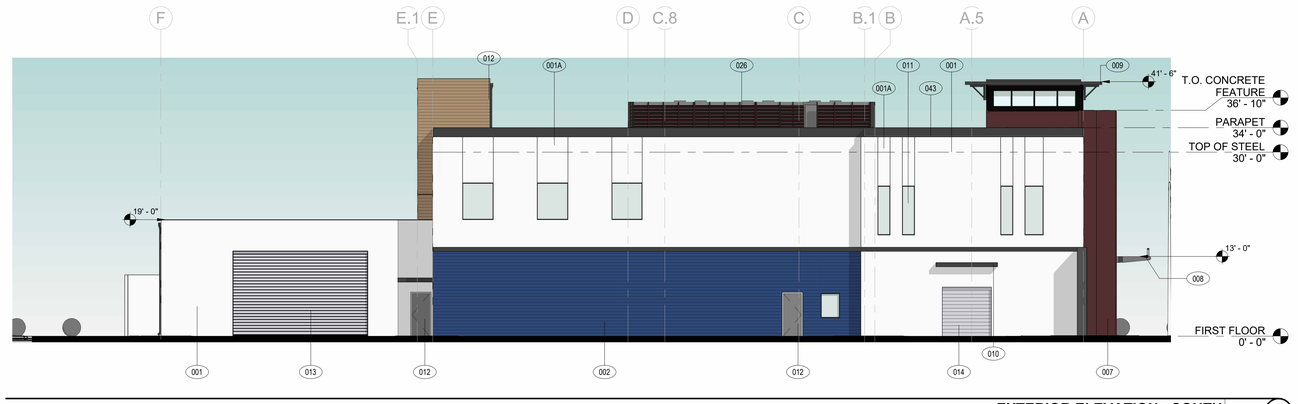
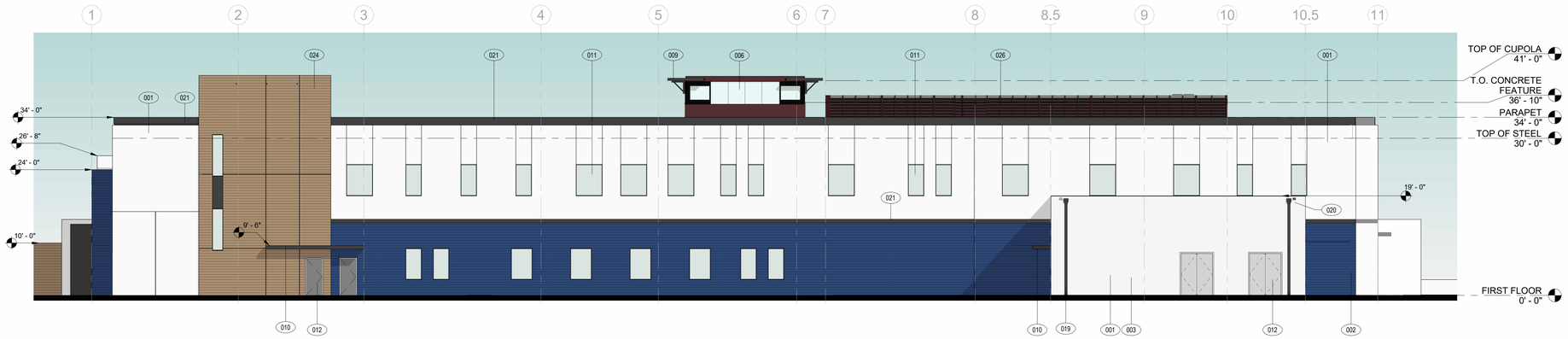


EXTERIOR ELEVATION - NORTH 1" = 10'-0" (4)



EXTERIOR ELEVATION - SOUTH 1" = 10'-0" (3)



EXTERIOR ELEVATION - WEST 1" = 10'-0" (2)

EXTERIOR ELEVATION - EAST 1" = 10'-0" (1)

EXT. MATERIAL SCHED.

- COLOR A: MAIN EXTERIOR BUILDING SW 7008 ALABASTER
- COLOR B: ACCENT EXTERIOR BUILDING COLOR TEXTURED PAINT FINISH SW 6811 HONORABLE BLUE
- ACCENT TILT PANELS: TBD FORMLINER PATTERN W/ TEXTURED PAINT FINISH. REFER TO SHEET KEYNOTES.
- MATERIAL: COMPOSITE ALUMINUM PANELING - ALPOLIC DBR DARK BRONZE ANODIZED
- SW 7069 IRON ORE REFER TO SHEET KEYNOTES.
- ALUMINUM WINDOW/STOREFRONT FRAME
- EXTERIOR TINTED GLAZING: TINT COLOR TBD

WINDOW-TO-WALL RATIO

FACADE	GLASS SQ.FT.	WALL SQ.FT.	GLAZING %
EAST	1,459	8,887	16%
WEST	700	8,793	8%
SOUTH	228	4,124	6%
NORTH	778	4,124	19%
TOTAL	**3,165**	25,928	**12%**

ELEVATION KEYNOTES

KEYNOTE	DESCRIPTION
001	TILT-UP WALL PTD. FINISH
001A	RECESSED ELEMENT, TILT-UP WALL PTD. FINISH
002	STUCCO OVER CMU W/ 5/8"x1"W PVC "CHANNEL SCREED" REVEAL BY FRY REGLET (OR EQUAL) 6"O.C. STANDARD COLOR: POLICE BLUE/APPLY A.W.V.B. WATERPROOFING BEHIND REVEALS
003	LIGHT TEXTURED STUCCO WITH PVC REVEALS AND PAINT OVER CMU
004	LEVEL E IMPACT RATED CURTAIN WALL SYSTEM; TINTED GLAZING
005	LEVEL E IMPACT RATED ALUMINUM STOREFRONT SYSTEM; TINTED GLAZING
006	GLASS STOREFRONT SYSTEM W/ TINTED DARK GRAY REFLECTIVE PANELS
007	BACKLIT METAL PANEL ENTRY FRAME. INTERIOR FINISH ALPOLIC "QBV ORIENTAL CANE STOCK" HORIZONTAL GRAIN, DRY JOINT
008	CUSTOM METAL CANOPY W/ TOP MOUNTED BACKLIT SIGNAGE
009	PRE-ENGINEERED ALUMINUM CANOPY SYSTEM WITH PVDF 70% RESIN COATING
010	ALUMINUM CANOPY/TRELLIS SYSTEM PREFINISHED BY PEACHTREE SYSTEMS OR EQUAL. COLOR TO MATCH SW 7069 IRON ORE
011	WINDOWS: FIXED, IMPACT-RESISTANT WINDOWS WITH LAMINATED, TINTED GLASS AND ALUMINUM FRAME. RATED LEVEL E IMPACT WITH NOA APPROVAL.
012	EXTERIOR METAL DOOR WITH NOA APPROVAL
012A	EXTERIOR METAL DOOR WITH TRANSOM AND NOA APPROVAL
013	OVERHEAD DOORS PERFORATED STAINLESS STEEL FINISH. SEE DOOR SCHEDULE FOR DETAILS
014	OVERHEAD DOORS STAINLESS STEEL PANEL FINISH. SEE DOOR SCHEDULE FOR DETAILS
015	WALL-MOUNTED PRE-FINISHED ALUMINUM BACK LIT REVERSE CHANNEL LETTERS
016	1 MONUMENT PEDESTAL W/ INTEGRATED LIGHTING AND MARBLE FINISH
019	DOWNSPOUT
020	SCUPPER
021	PAINTED REVEAL
024	HATCH PATTERN DESIGNATES AREA OF TILT PANEL TO BE PROVIDED WITH TEXTURED PAINT FINISH FORMLINER - PATTERN TBD.
026	ROOFTOP VISION BARRIER IN DARK BRONZE FINISH
043	EXTERIOR RATED CONT. LED STRIP ACCENT LIGHTING.

ELEVATION NOTES

1. DO NOT SCALE DRAWINGS, CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATIONS OR MISSING DIMENSIONS.
2. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFORMATION IN WRITING BEFORE EXECUTION OF WORK.
3. BUILDING FINISH FLOOR ELEVATION IS 0'-0" FOR ARCHITECTURAL COORDINATION.
4. REFER TO CIVIL DRAWINGS FOR ACTUAL DATUM, FINISH FLOOR ELEVATION.
5. ALL EXTERIOR PENETRATIONS, JOINTS, DOORS AND WINDOWS TO BE SEALED WITH SILICONE SEALANT. COLOR TO MATCH ADJACENT.
6. FINISHES, TRIM, DECORATIVE ELEMENTS ETC. SHALL WRAP ALL ELEVATIONS OF WALLS, ALCOVES, ETC. NOT ALL EXTERIOR WALL RETURNS (ELEVATIONS) MAY NOT BE SHOWN.
7. REFER TO STRUCTURAL DRAWINGS FOR "ALLOWABLE" DESIGN WIND PRESSURES. ALL DOORS, LOUVERS AND WINDOWS TO HAVE CURRENT MIAMI DADE N.O.A. AND FLORIDA PRODUCT APPROVALS.
8. ALL OPENINGS TO BE IMPACT RATED PER LEVEL E REQUIREMENTS FOR CATEGORY IV ESSENTIAL BUILDINGS.
9. ALL TILT PANEL JOINTS TO HAVE CONTINUOUS SEALANT AND BACKER ROD AT BOTH SIDES FROM 6" BELOW ROOF LEVEL TO TOP OF PARAPET. HORIZONTAL JOINT TO HAVE SEALANT AND BACKER ROD. INTERIOR SPACES WITHOUT FINISHES (EXPOSED TILT) TO HAVE CONTINUOUS SEALANT AND BACKER ROD AT BOTH SIDES.

GRAPHIC LEGEND

REFERENCE TYPICAL LEGEND GRAPHICS ON GENERAL PROJECT INFORMATION SHEET

- INDICATES 1/4" PER FOOT SLOPE TO DRAIN AT ROOF OR SLOPE 1:48 IN ANY DIRECTION AT EXTERIOR PLAZA DECK DRAINS
- ##.## — KEYNOTE REFERENCE
- TYP — TYP. - TYPICAL CONDITION
- TYP BEYOND — BEYOND - DESCRIBED CONDITION IS BEYOND A SCREENING CONDITION IN THE FOREGROUND.
- PJ — TILT PANEL JOINT

0 5'-0" 10'-0" 20'-0"

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DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
1	7/9/2025	Site Plan Resubmission
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
EXTERIOR ELEVATIONS - ADMINISTRATION

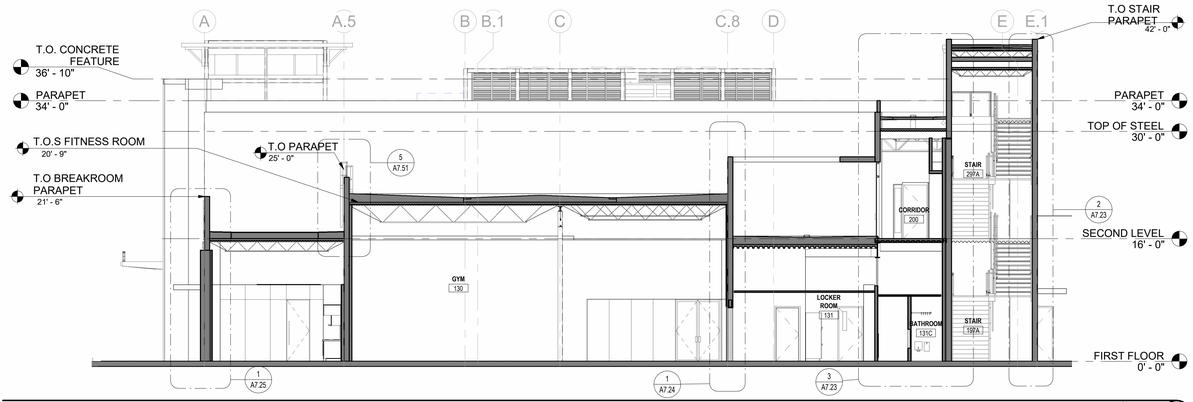
THIS SHEET SHALL BE PRINTED IN COLOR

SHEET NUMBER
A6.00

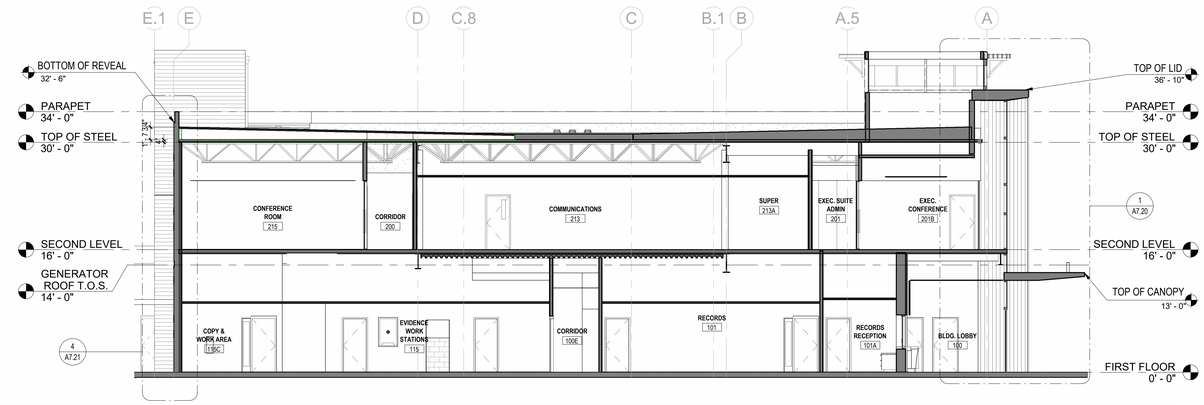
FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
DATE STAMP: 10/24/2025 1:40:26 PM



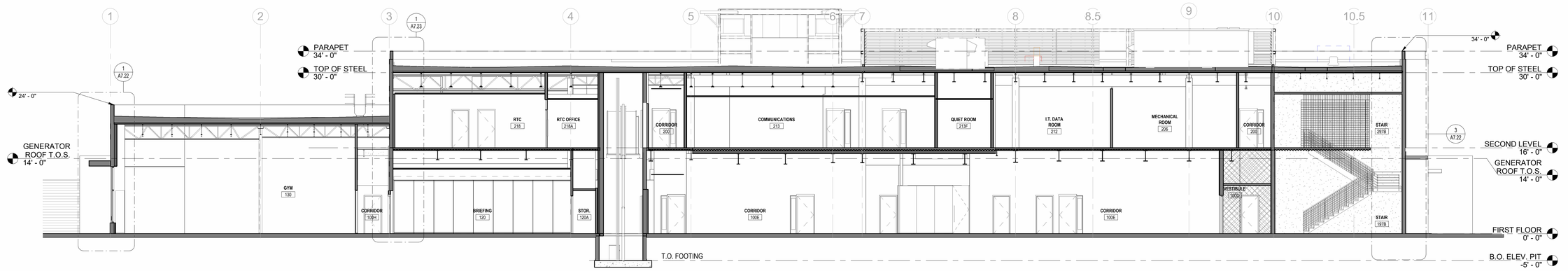
BUILDING SECTION 4 1/8" = 1'-0" (4)



BUILDING SECTION 3 1/8" = 1'-0" (3)



BUILDING SECTION 2 1/8" = 1'-0" (2)



BUILDING SECTION 1 1/8" = 1'-0" (1)

BLDG SECTION NOTES

1. DO NOT SCALE DRAWINGS, CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATIONS OR MISSING DIMENSIONS.
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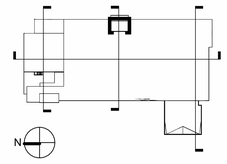
3. BUILDING FINISH FLOOR ELEVATION IS 0'-0" FOR ARCHITECTURAL COORDINATION.
4. REFER TO CIVIL DRAWINGS FOR ACTUAL DATUM, FINISH FLOOR ELEVATION.
5. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6. BUILDING SLAB ON GRADE OVER VAPOR BARRIER "PERMINATOR 15 MIL" BY WR MEADOWS OR EQUAL. ALL JOINTS AND PENETRATIONS TO BE TAPED (SEALED) PER MANUFACTURER'S REQUIREMENTS.
7. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
8. REFER TO WALL SECTIONS FOR ADDITIONAL INFORMATION.
9. REFER TO SHEET G0.02 "GENERAL PROJECT INFORMATION" FOR GENERAL PROJECT GRAPHICS AND ABBREVIATIONS FOR ADDITIONAL INFORMATION.

KEY PLAN



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STATE OF FLORIDA
JOBY L. BALINT
AR0016653
REGISTERED ARCHITECT

JOBY L. BALINT, AIA AR-0016653

DRAWING HISTORY

Nr	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
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E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

PROJECT STATUS

90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER

1007657.00

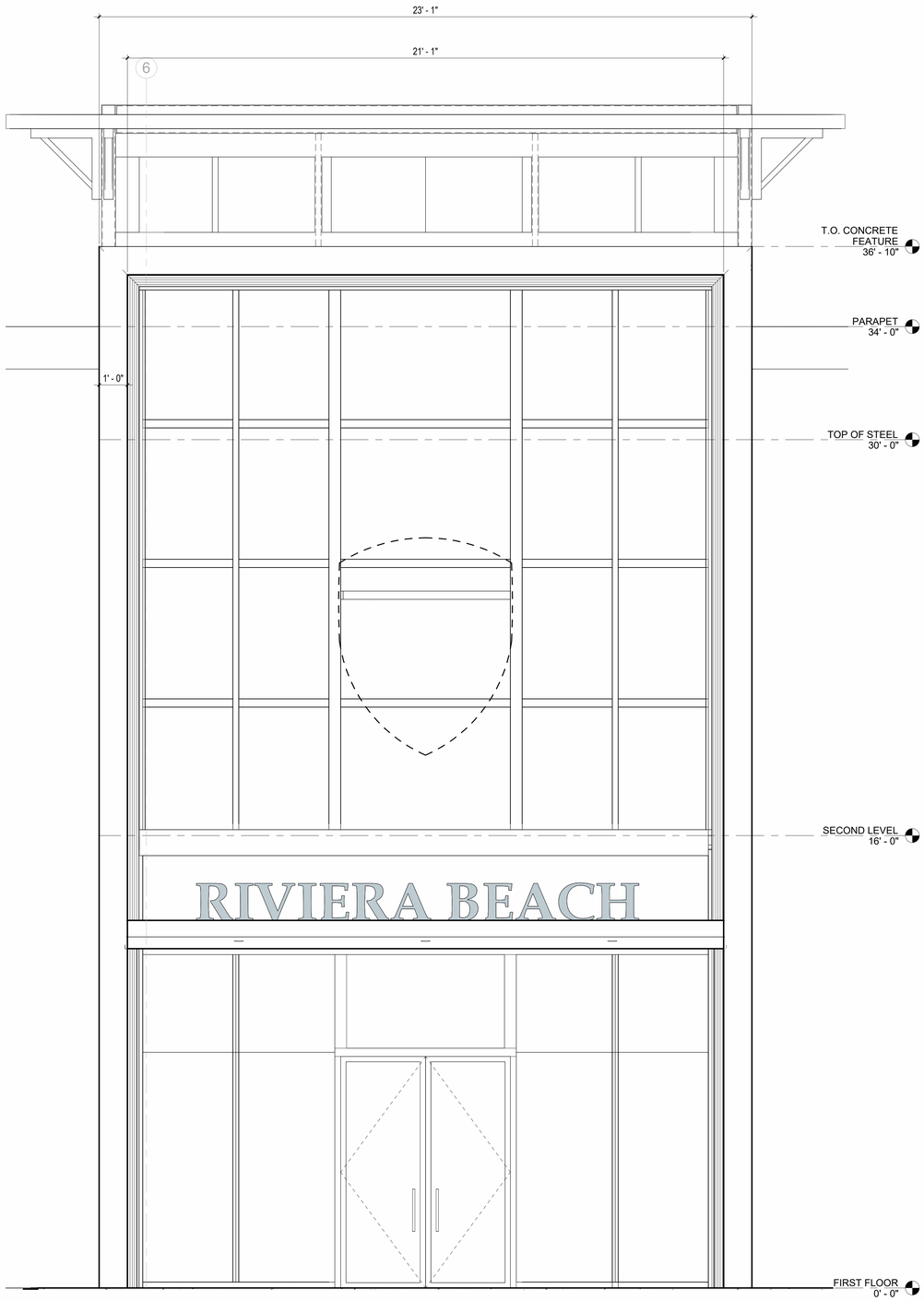
SHEET TITLE

BUILDING SECTIONS - ADMIN

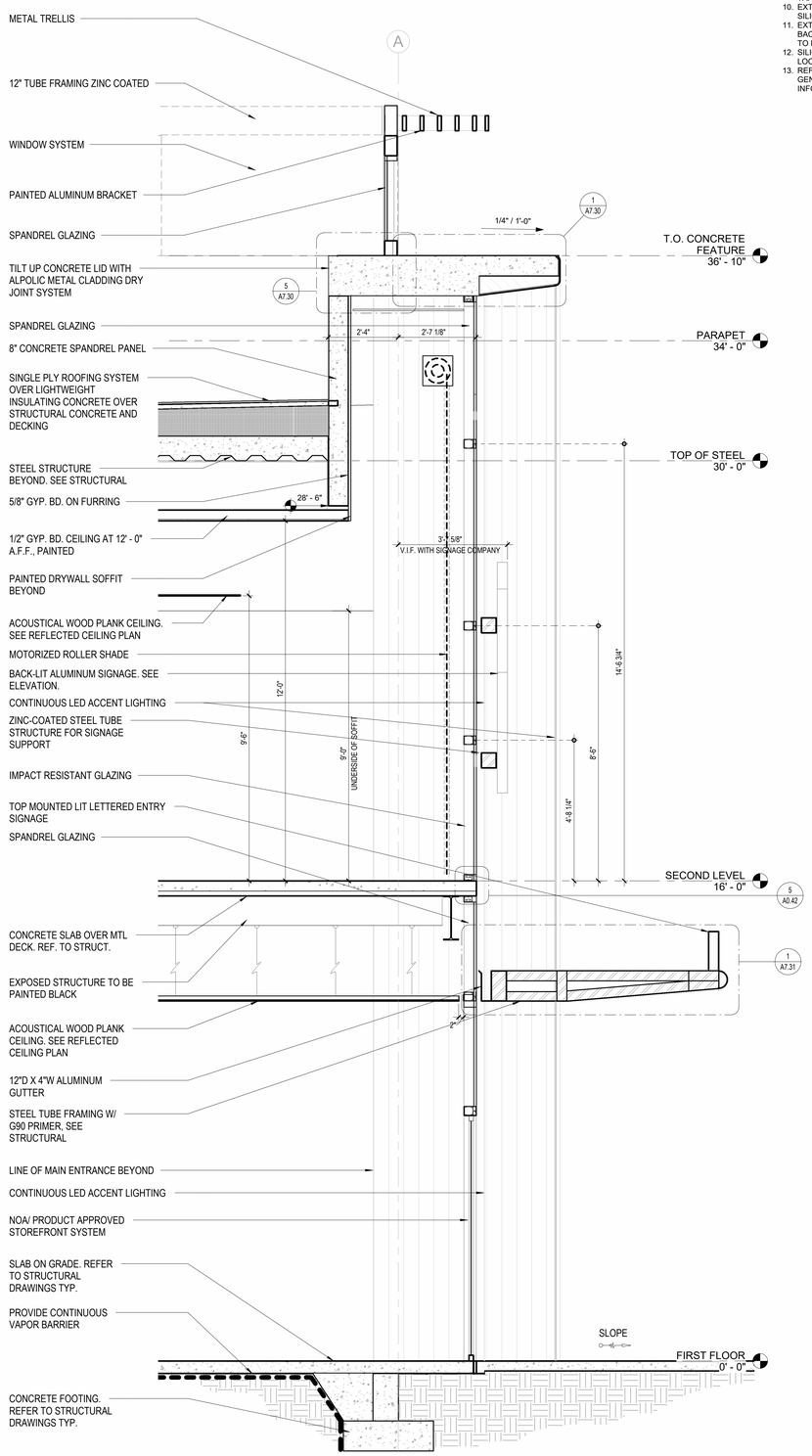
SHEET NUMBER

A7.00

FILE NAME: Autodesk Docs://_1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
DATE STAMP: 10/24/2025 1:40:57 PM



STOREFRONT - ELEVATION 1/2" = 1'-0" (2)



WALL SECTION @ ENTRY 1/2" = 1'-0" (1)

WALL SECTION NOTES

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6. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
7. REFER TO EXTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
8. REFER TO PARTITION TYPE SCHEDULE FOR ADDITIONAL INFORMATION.
9. BUILDING SLAB ON GRADE OVER VAPOR BARRIER "PERMINATOR 15 MIL" BY WR MEADOWS OR EQUAL. ALL JOINTS AND PENETRATIONS TO BE TAPED (SEALED) PER MANUFACTURER'S REQUIREMENTS.
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12. SILICONE SEALANT COLOR TO BE "ALUMINUM OR GREY" AT CONCEALED LOCATIONS.
13. REFER TO SHEET G0.02 "GENERAL PROJECT INFORMATION" FOR GENERAL PROJECT GRAPHICS AND ABBREVIATIONS FOR ADDITIONAL INFORMATION.

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CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER
1007657.00

SHEET TITLE
WALL SECTIONS

SHEET NUMBER
A7.20

FILE NAME: Autodesk Docs://. 1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
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WALL SECTION NOTES

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7. REFER TO EXTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
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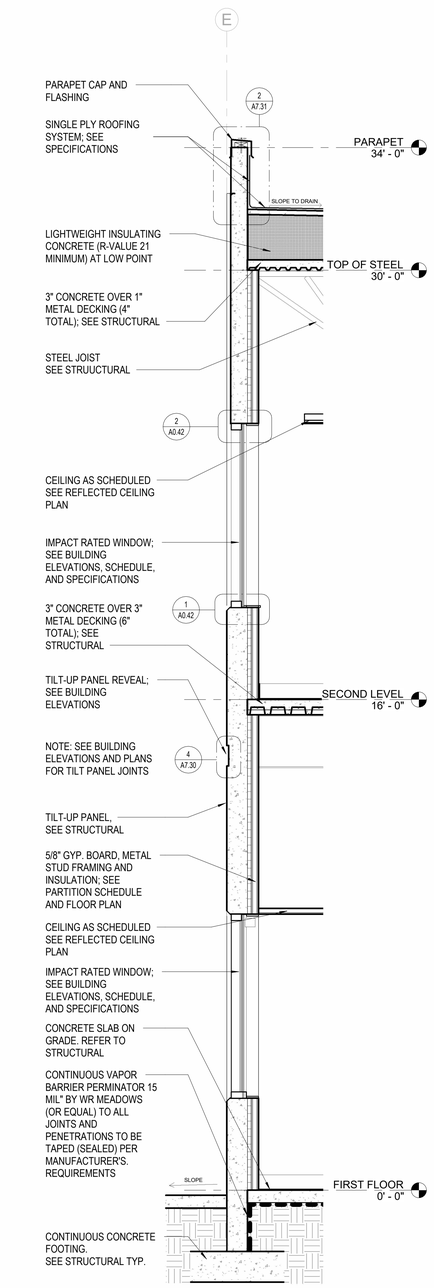
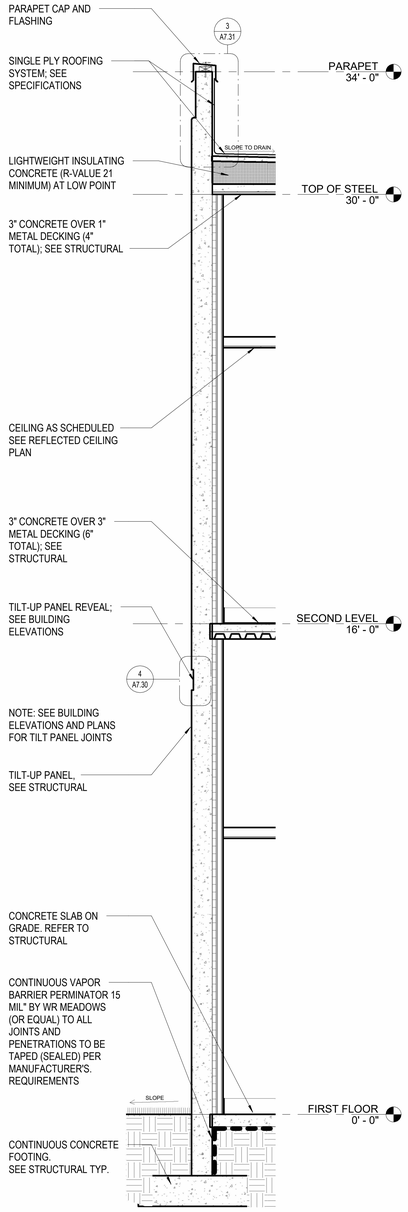
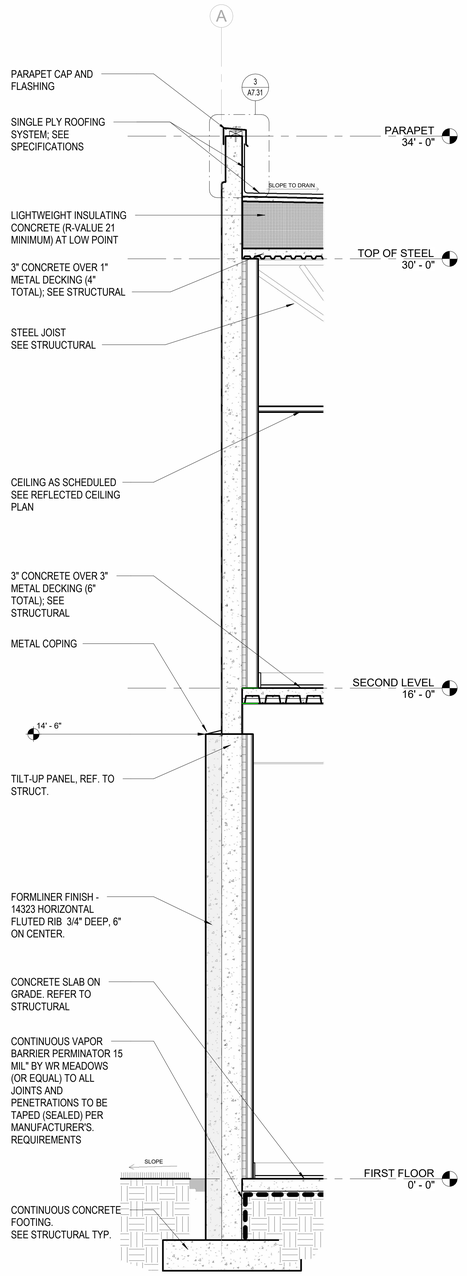


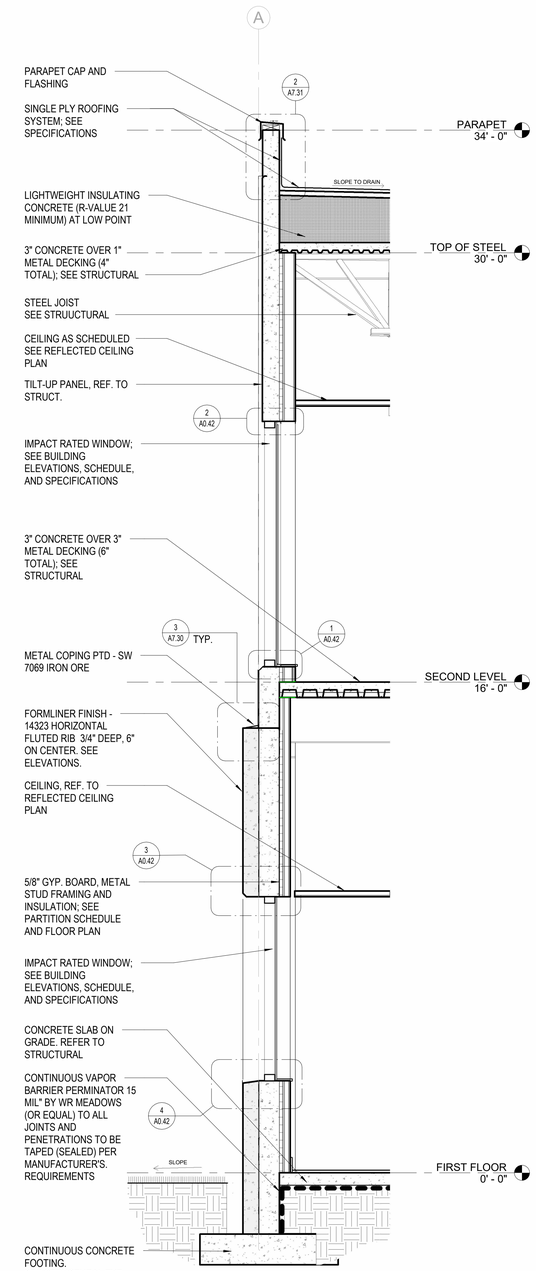
WALL SECTION @ WEST WALL 1/2" = 1'-0" 4



WALL SECTION @ SOUTH EXT WALL 1/2" = 1'-0" 3



WALL SECTION 1/2" = 1'-0" 2



WALL SECTION 1/2" = 1'-0" 1

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AR0016653

JOBY L. BALINT, AIA AR-0016653

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DRAWING HISTORY

No	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER
1007657.00

SHEET TITLE
WALL SECTIONS

SHEET NUMBER
A7.21

FILE NAME: Autodesk Docs://_1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
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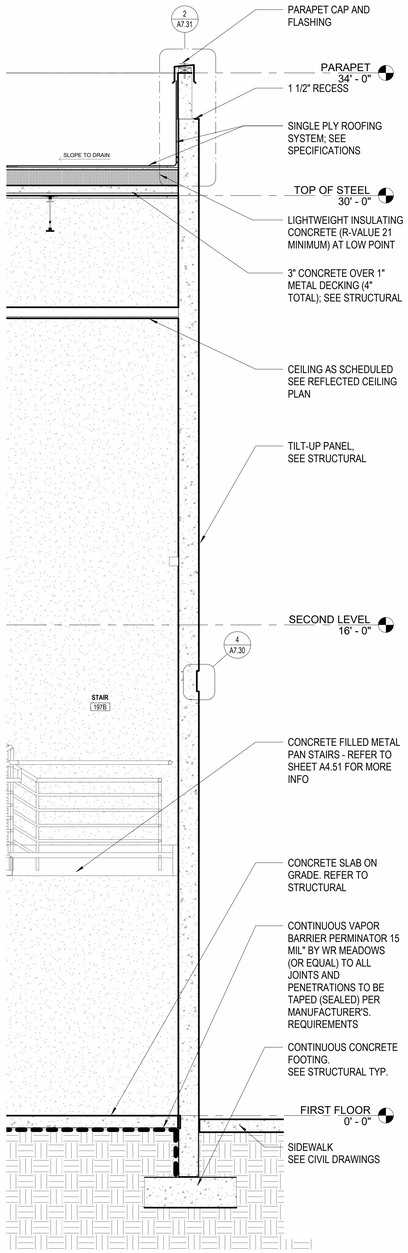
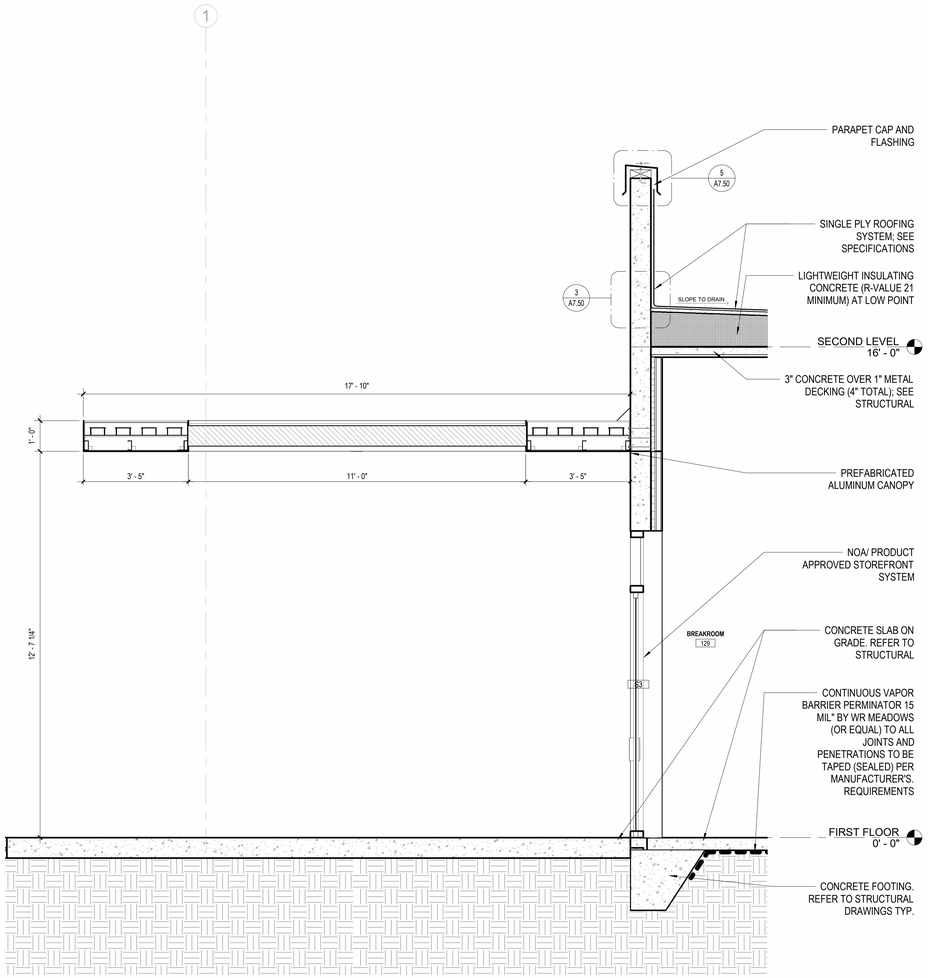
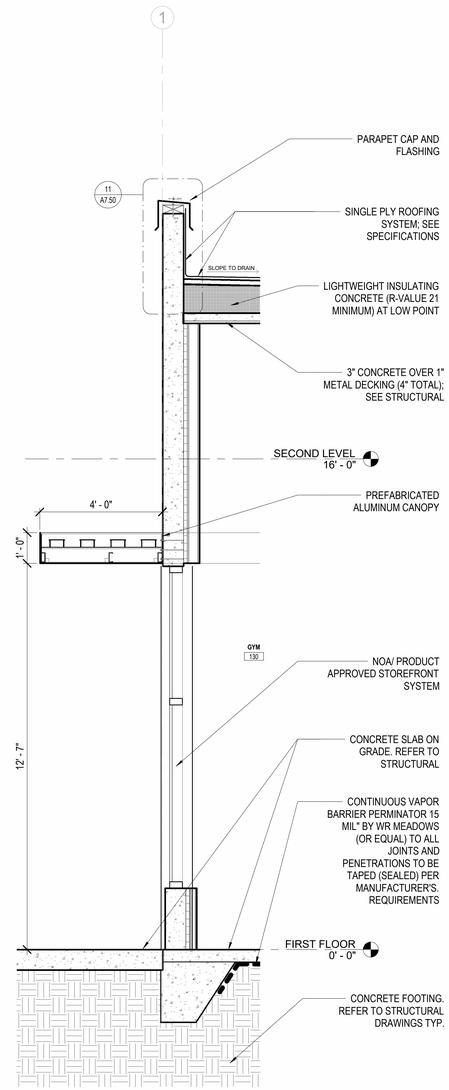


WALL SECTION @ SOUTH STAIR 1/2" = 1'-0" (3)



WALL SECTION @ FIRST FLOOR BREAKROOM 1/2" = 1'-0" (2)



WALL SECTION @ GYM STOREFRONT 1/2" = 1'-0" (1)

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JOBY L. BALINT, AIA AR-0016653

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CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
WALL SECTIONS

SHEET NUMBER
A7.22

FILE NAME: Autodesk Docs://_1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
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WALL SECTION NOTES

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7. REFER TO EXTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
8. REFER TO PARTITION TYPE SCHEDULE FOR ADDITIONAL INFORMATION.
9. BUILDING SLAB ON GRADE OVER VAPOR BARRIER "PERMINATOR 15 MIL" BY WR MEADOWS OR EQUAL. ALL JOINTS AND PENETRATIONS TO BE TAPED (SEALED) PER MANUFACTURER'S REQUIREMENTS.
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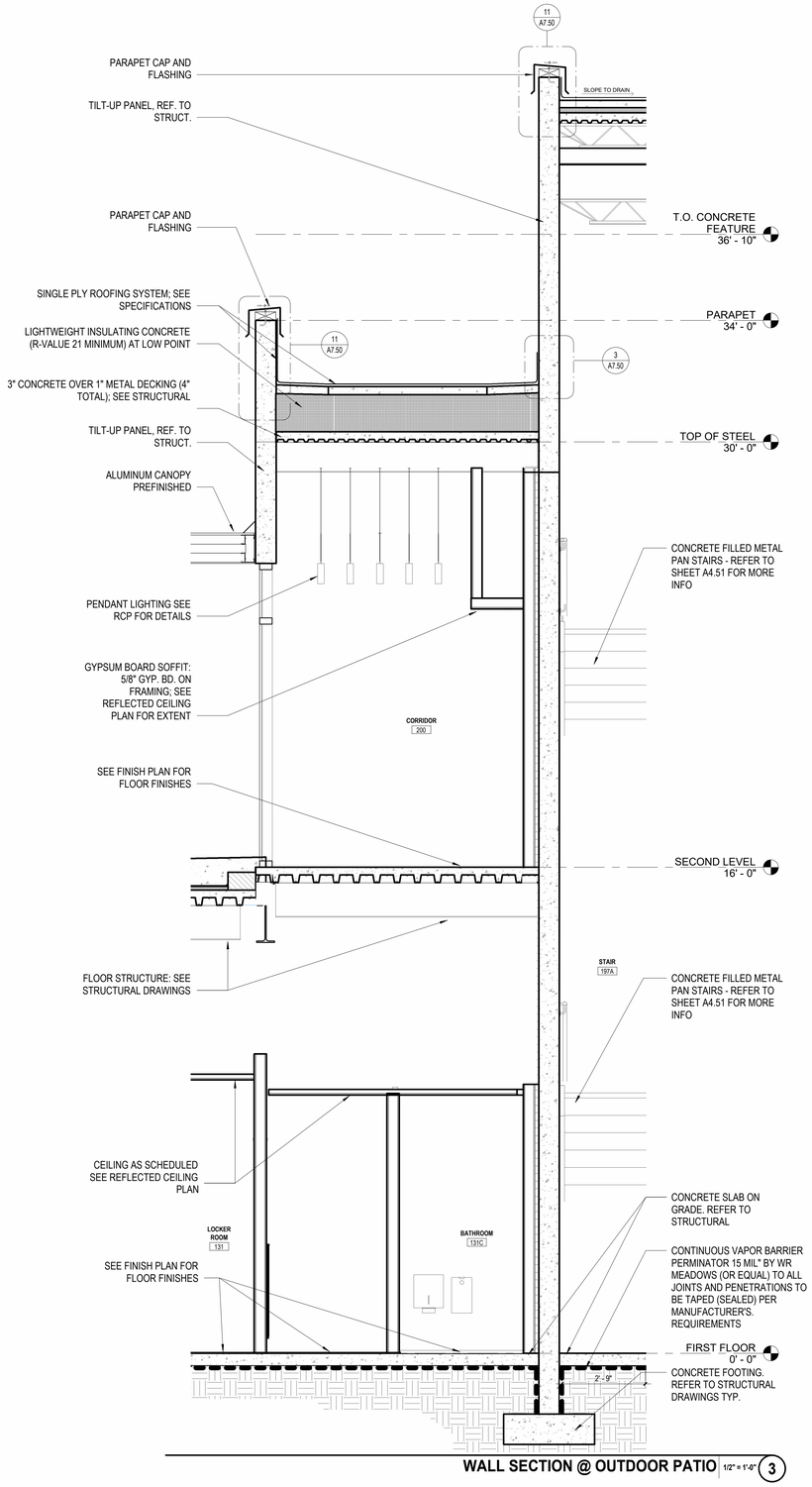
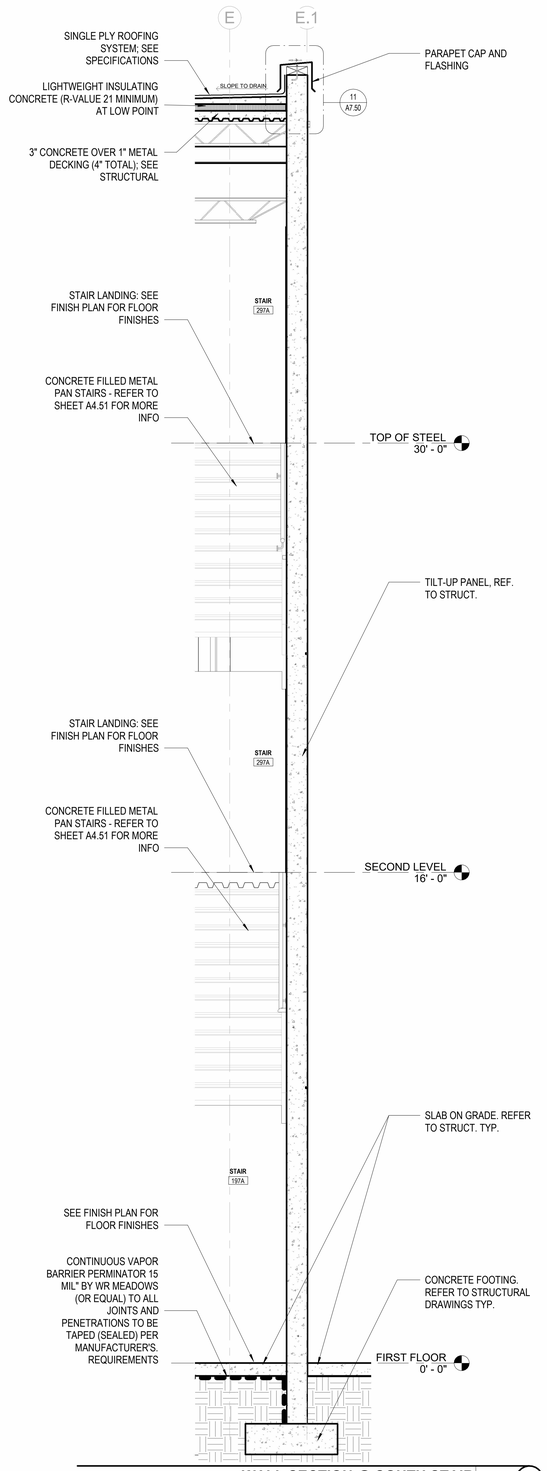
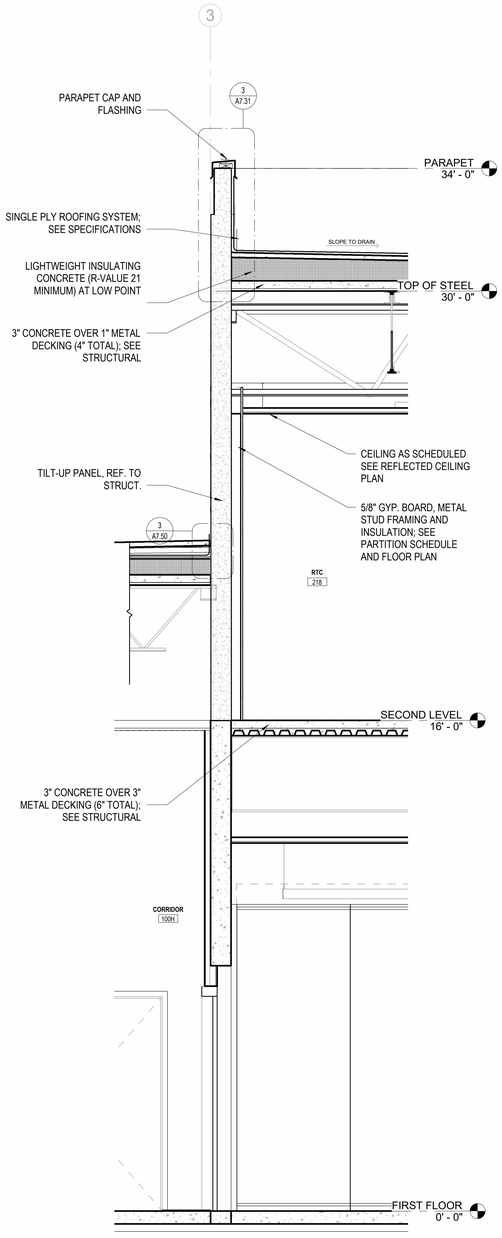


WALL SECTION @ OUTDOOR PATIO 1/2" = 1'-0" (3)



WALL SECTION @ SOUTH STAIR 1/2" = 1'-0" (2)



WALL SECTION ROOF TRANSITION 1/2" = 1'-0" (1)

FILE NAME: Autodesk Docs://. 1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
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CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER
1007657.00

SHEET TITLE
WALL SECTIONS

SHEET NUMBER
A7.23

WALL SECTION NOTES

1. DO NOT SCALE DRAWINGS, CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATIONS OR MISSING DIMENSIONS.
2. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFORMATION IN WRITING BEFORE EXECUTION OF WORK.
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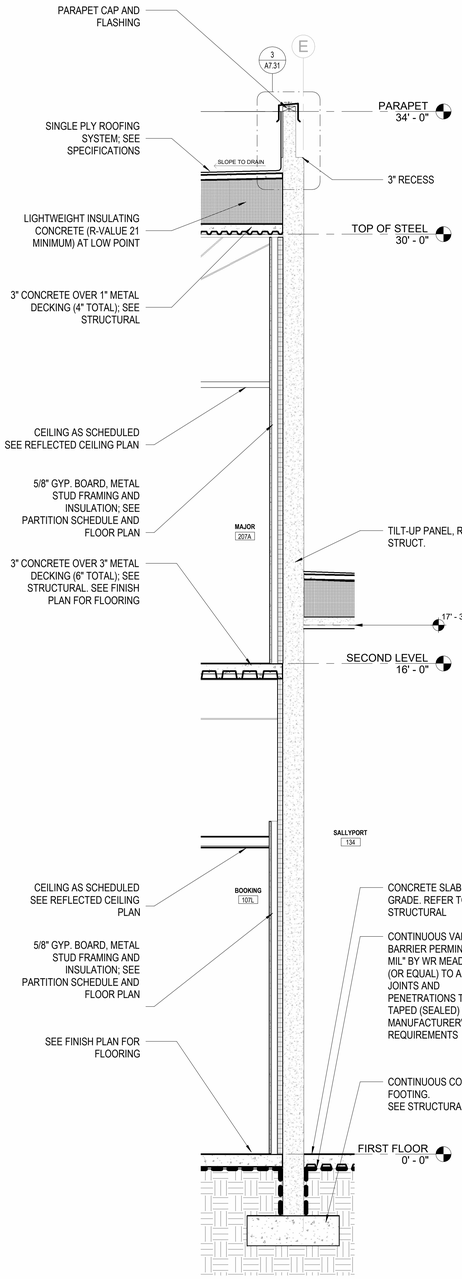
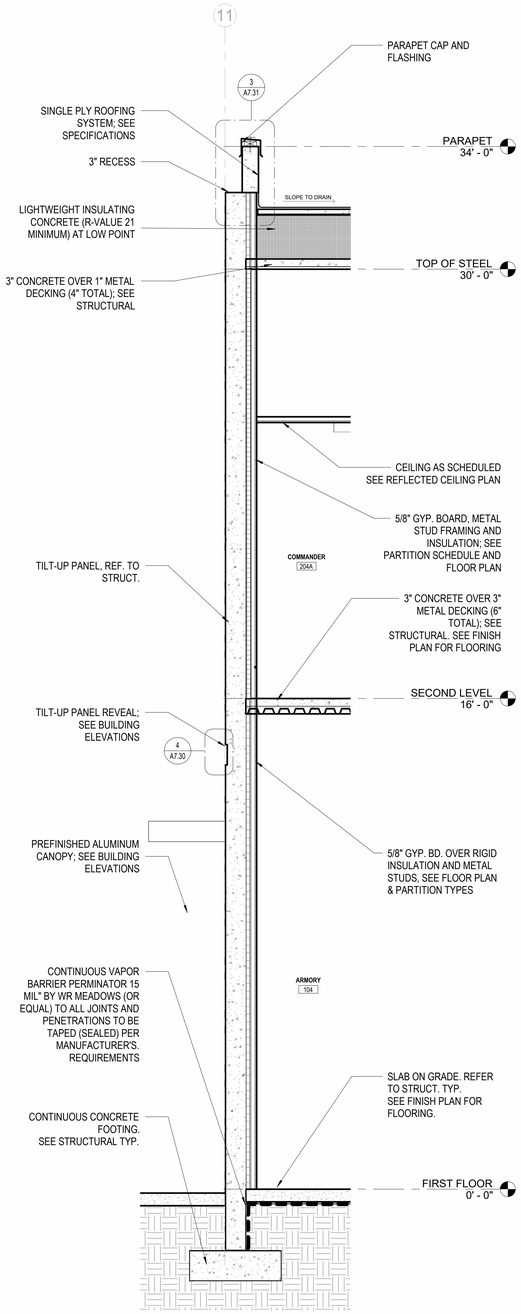
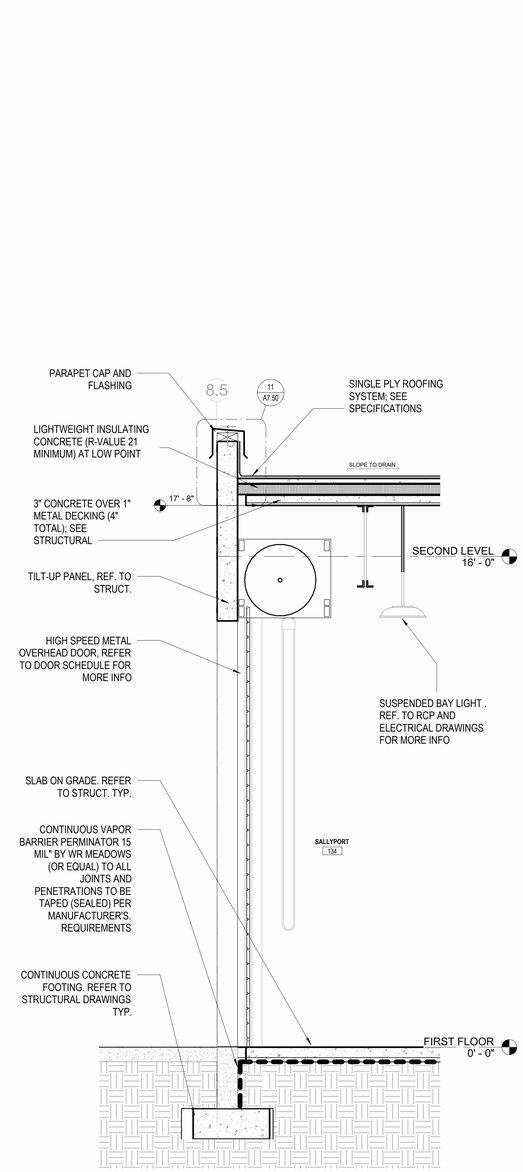


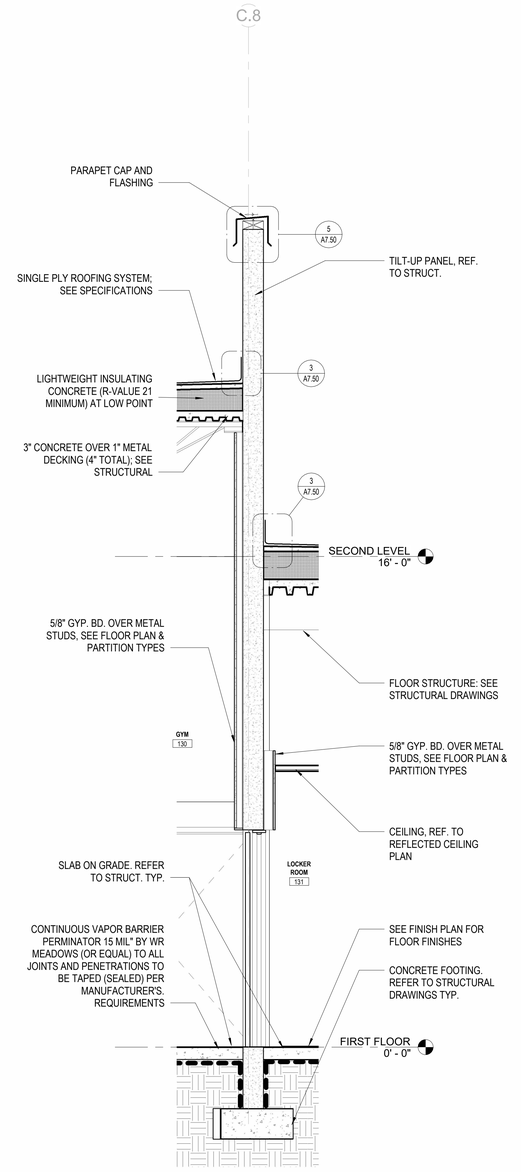
WALL SECTION @ SALLYPORT AND BOOKING 1/2" = 1'-0" 4



WALL SECTION AT ARMORY 1/2" = 1'-0" 3



WALL SECTION @ SALLYPORT 1/2" = 1'-0" 2



BUILDING SECTION @ GYM AND LOCKER ROOM 1/2" = 1'-0" 1

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PROJECT LOCATION

2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER

1007657.00

SHEET TITLE

WALL SECTIONS

SHEET NUMBER

A7.24

FILE NAME: Autodesk Docs://_1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
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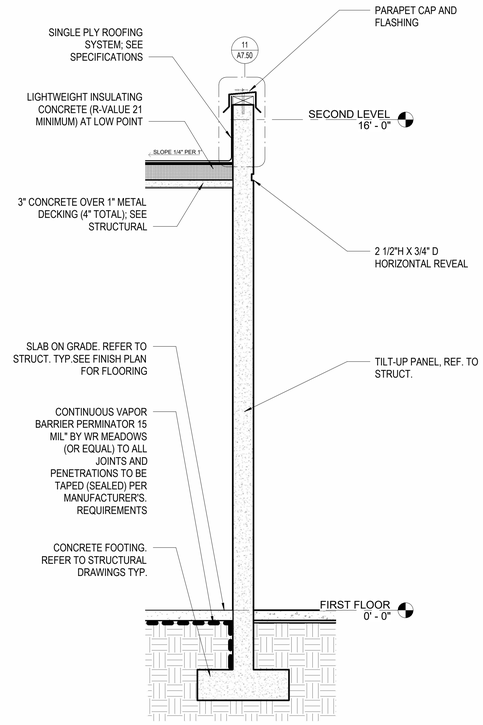
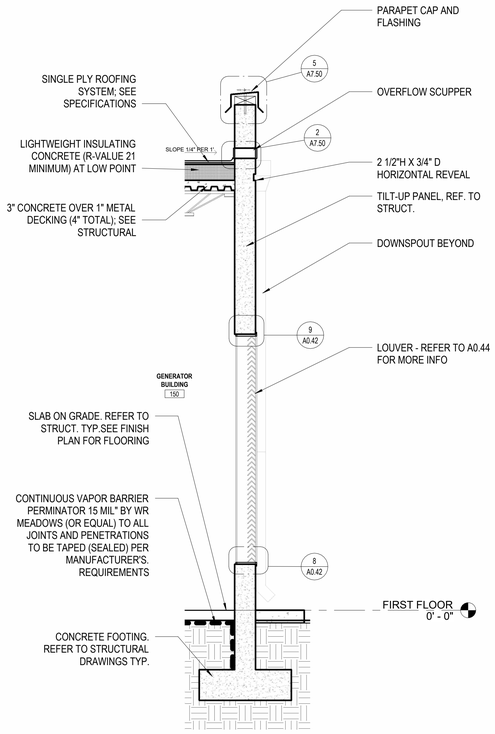
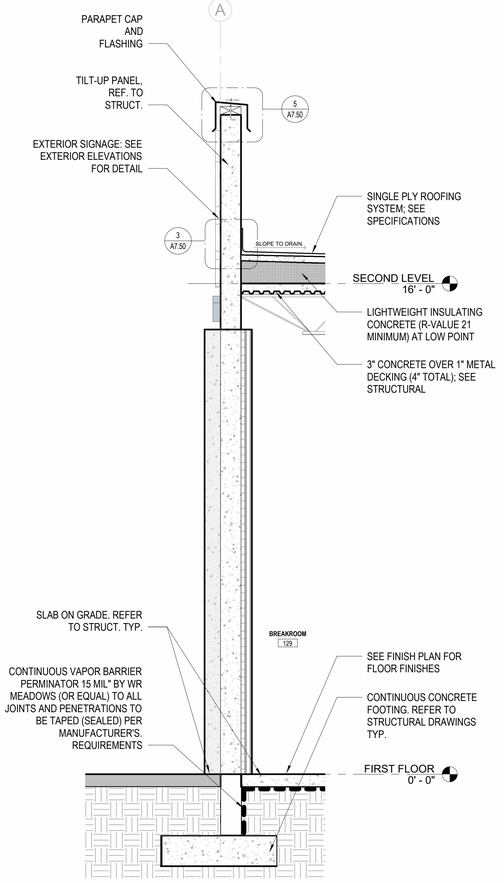


WALL SECTION @ GENERATOR TYP. 1/2" = 1'-0" (3)



WALL SECTION @ GENERATOR 1/2" = 1'-0" (2)



WALL SECTION @ 1ST FLOOR BREAKROOM 1/2" = 1'-0" (1)

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RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
WALL SECTIONS

SHEET NUMBER
A7.25

FILE NAME: Autodesk Docs://. 1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
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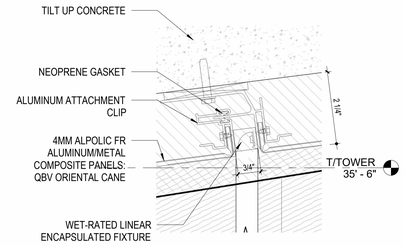
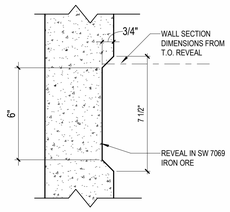
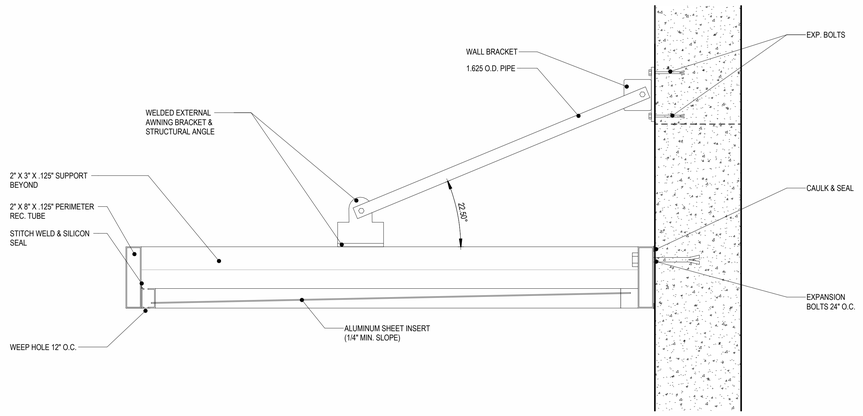


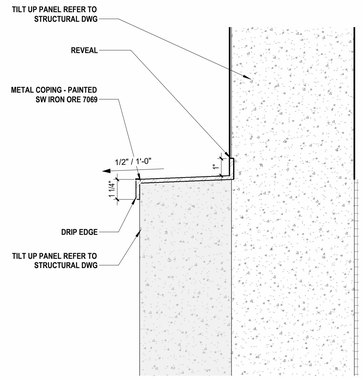
LINEAR LED AND CLADDING JOINT DETAIL 6" = 1'-0" (7)



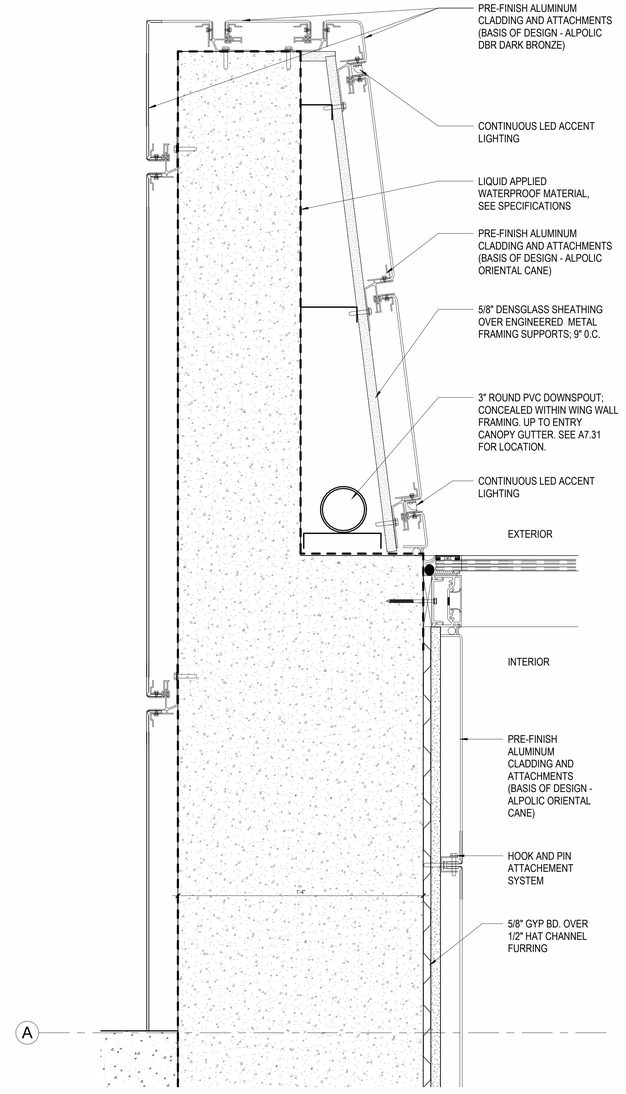
6" HORIZONTAL REVEAL 3" = 1'-0" (4)



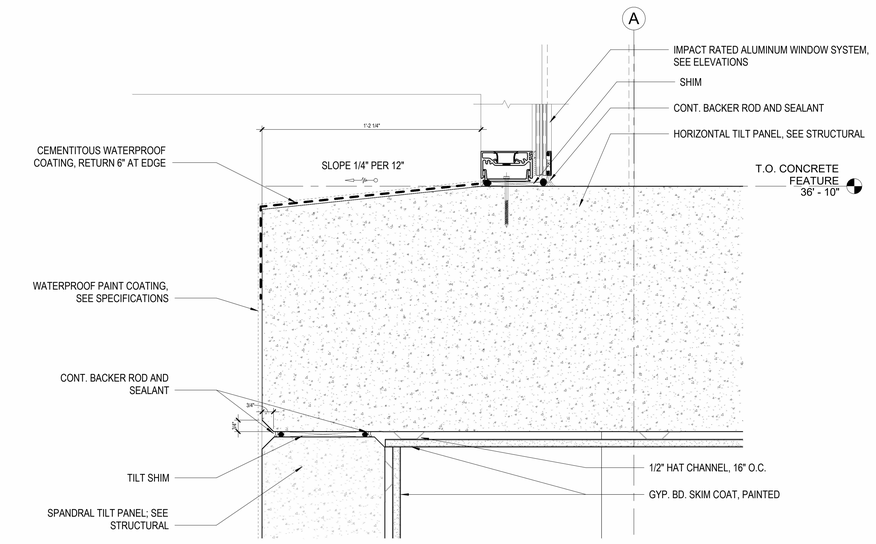
PREFINISHED ALUMINUM CANOPY SECTION AT EXIT DOORWAYS 1 1/2" = 1'-0" (6)



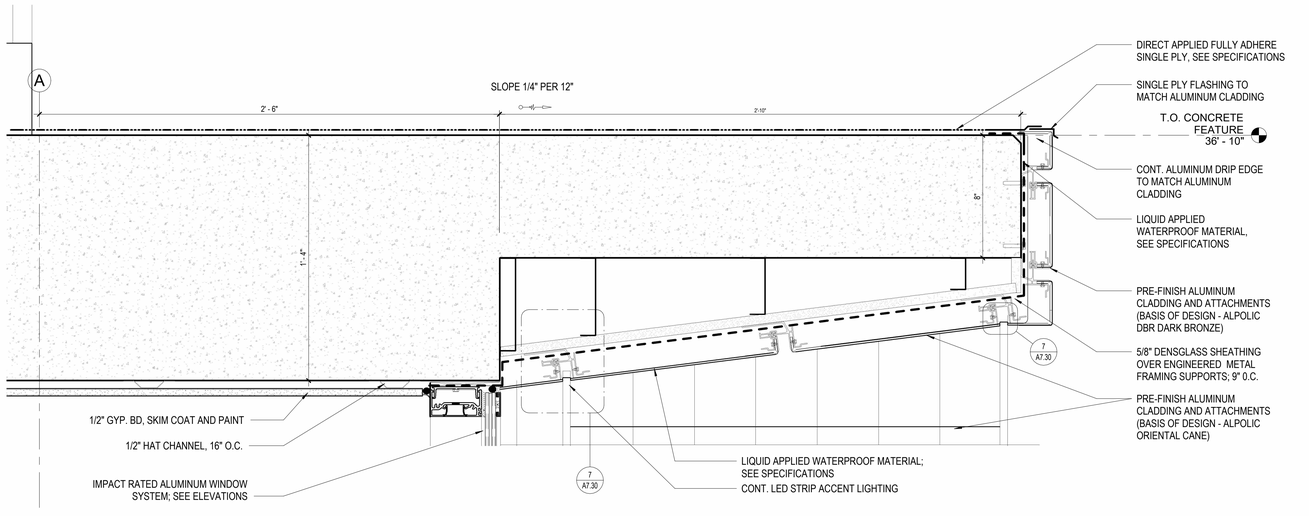
FACADE COPING DETAIL 3" = 1'-0" (3)



ENTRY CLADDING PLAN DETAIL 3" = 1'-0" (2)



CUPOLA DETAIL AT TILT UP ENTRY LID 3" = 1'-0" (5)



CLADDING DETAIL AT TILT UP ENTRY LID 3" = 1'-0" (1)

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PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
WALL SECTION DETAILS

SHEET NUMBER
A7.30

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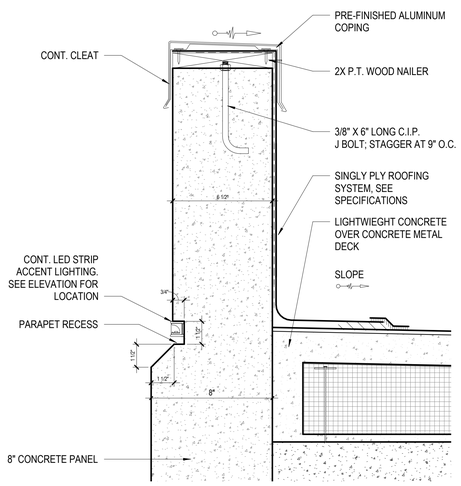
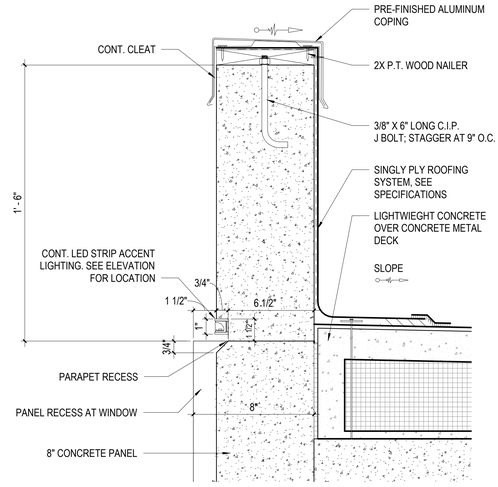
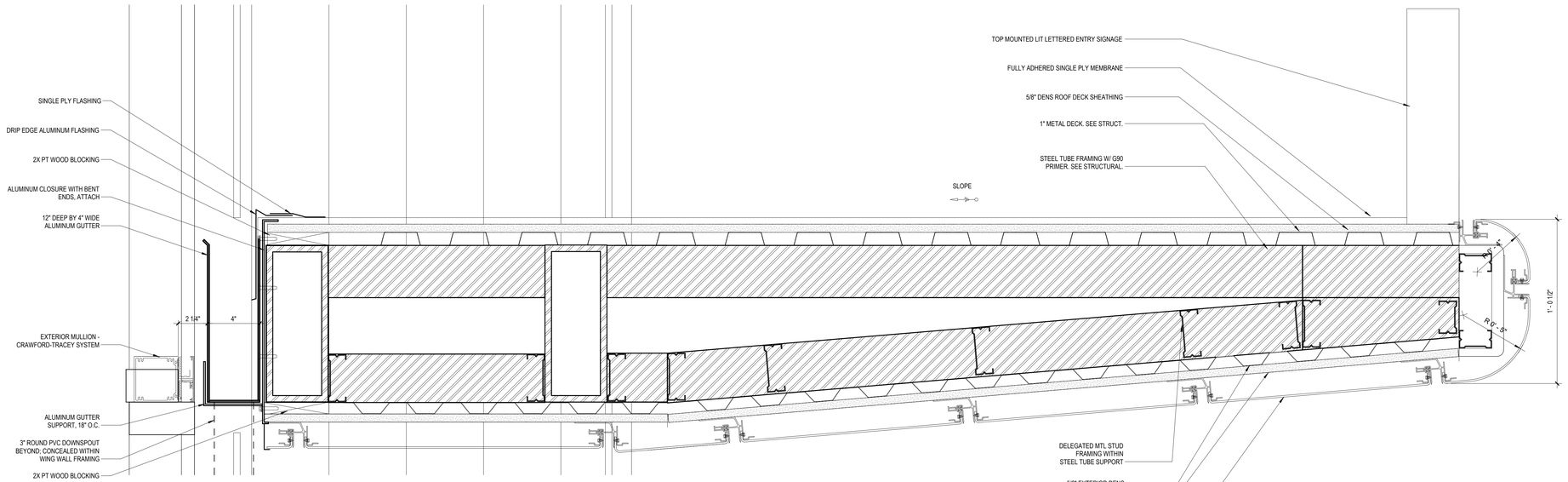


PARAPET DETAIL - 1 1/2" RECESS 3" = 1'-0" (3)



PARAPET AT 1 1/2" PANEL RECESS 3" = 1'-0" (2)



MAIN ENTRY CANOPY DETAIL 3" = 1'-0" (1)

FILE NAME: Autodesk Docs://_1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
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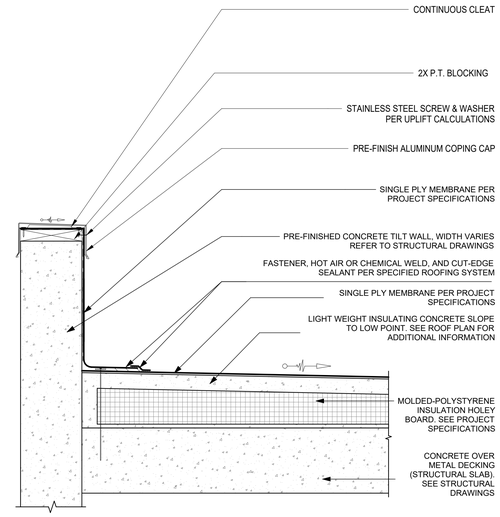
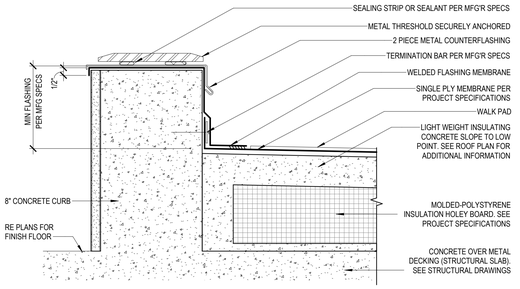
PROJECT NUMBER
1007657.00

SHEET TITLE
WALL SECTION DETAILS

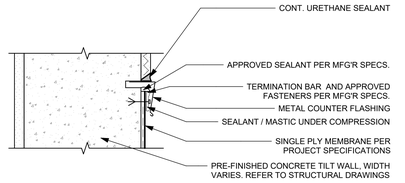
SHEET NUMBER
A7.31



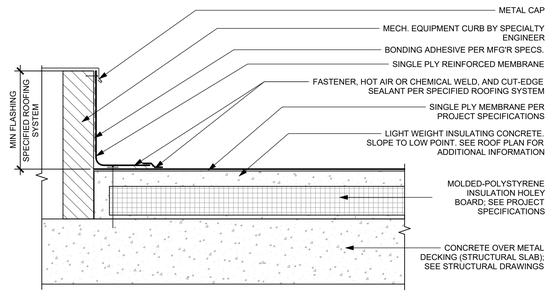
ROOFING DETAIL AT PARAPET CAP 1 1/2" = 1'-0" (11)



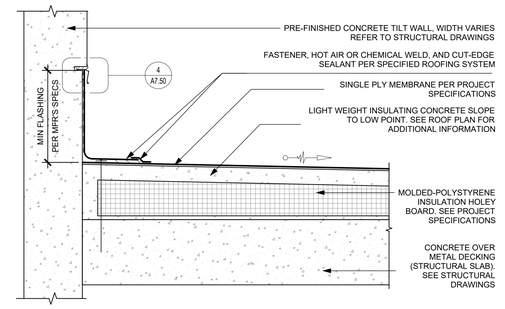
DOOR THRESHOLD @ ROOF 3" = 1'-0" (8)



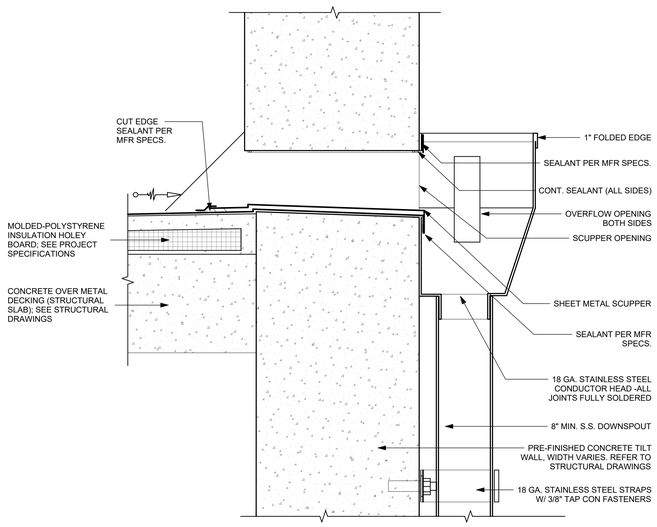
TYPICAL COUNTER FLASHING / WALL TO PARAPET DETAIL 3" = 1'-0" (4)



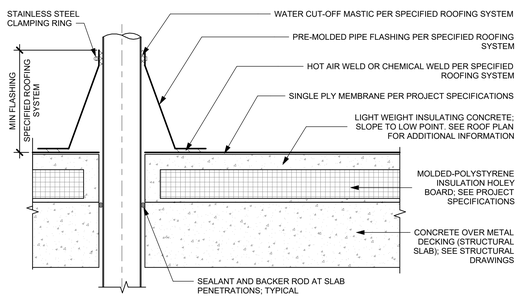
ROOFING DETAIL AT CURB FLASHING 1 1/2" = 1'-0" (7)



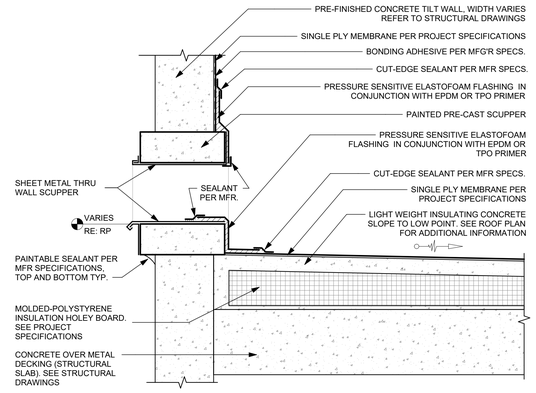
ROOFING TERMINATION AT EXTERIOR WALL 1 1/2" = 1'-0" (3)



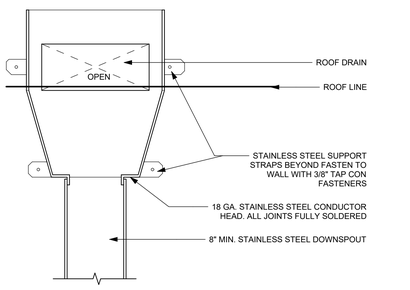
ROOFING SECTION DETAIL AT CONDUCTOR HEAD 1 1/2" = 1'-0" (10)



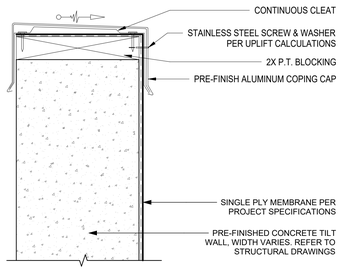
ROOFING DETAIL AT PIPE PENETRATION 1 1/2" = 1'-0" (6)



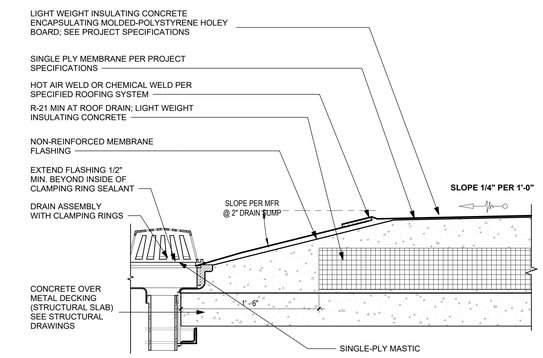
ROOFING DETAIL AT OVERFLOW SCUPPER 1 1/2" = 1'-0" (2)



DOWNSPOUT AND SCUPPER BOX DETAIL 1 1/2" = 1'-0" (9)



TYPICAL PARAPET DETAIL 3" = 1'-0" (5)



ROOFING DETAIL AT DRAIN 1 1/2" = 1'-0" (1)

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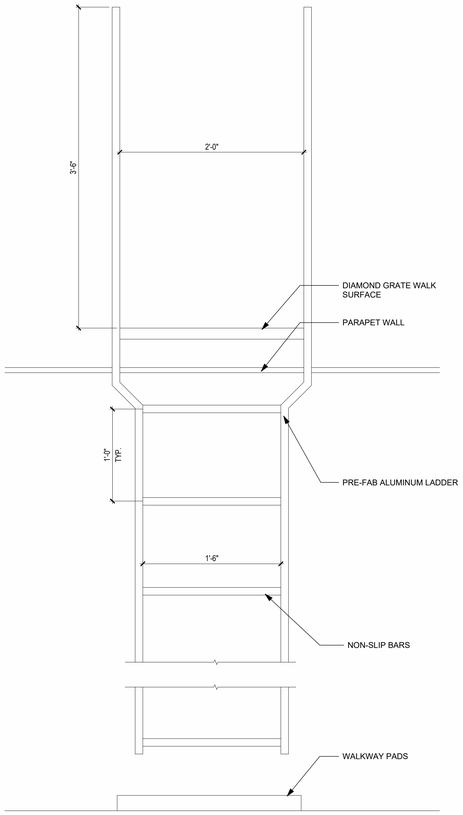
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

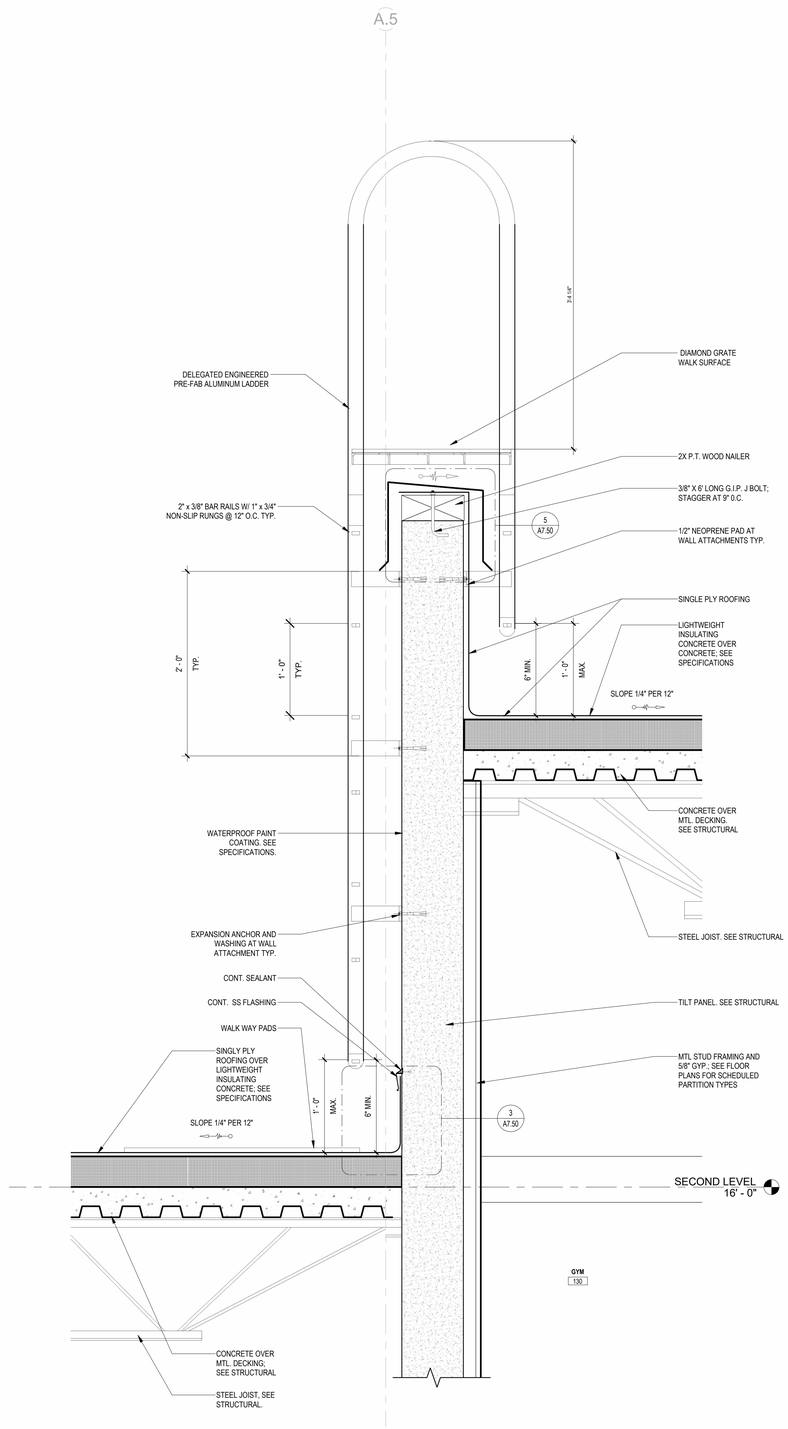
SHEET TITLE
ROOF DETAILS

SHEET NUMBER
A7.50

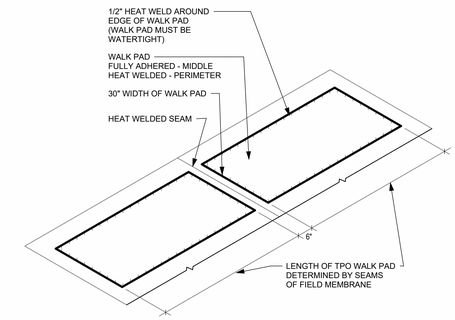


ROOF ACCESS LADDER ELEVATION

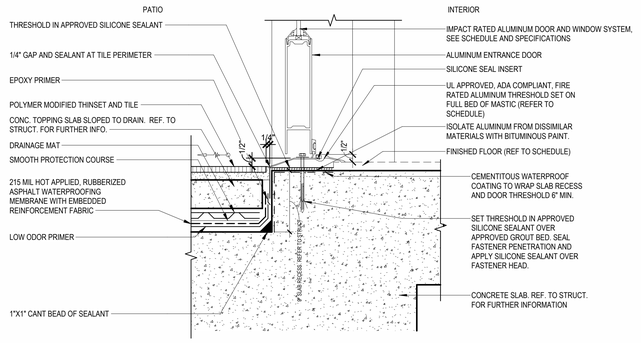
ROOF TOP ACCESS LADDER DETAILS 1 1/2" = 1'-0" (1)



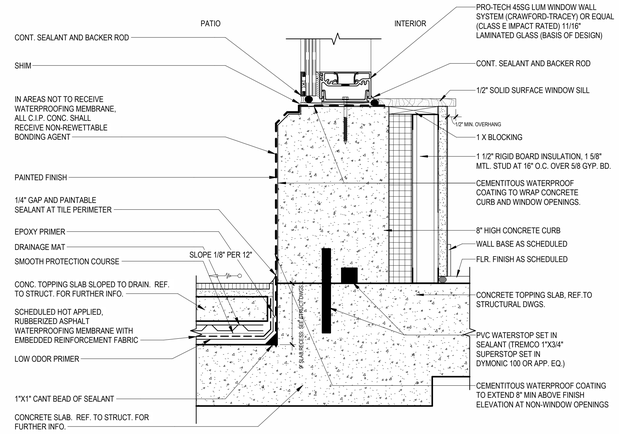
ROOF ACCESS LADDER SECTION DETAIL 1 1/2" = 1'-0" (5)



ROOF WALK PADS 1/2" = 1'-0" (2)



ALUMINUM DOOR THRESHOLD WATERPROOFING CURB 3" = 1'-0" (3)



WALL TO DECK WATERPROOFING DETAIL 3" = 1'-0" (4)

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SHEET NUMBER
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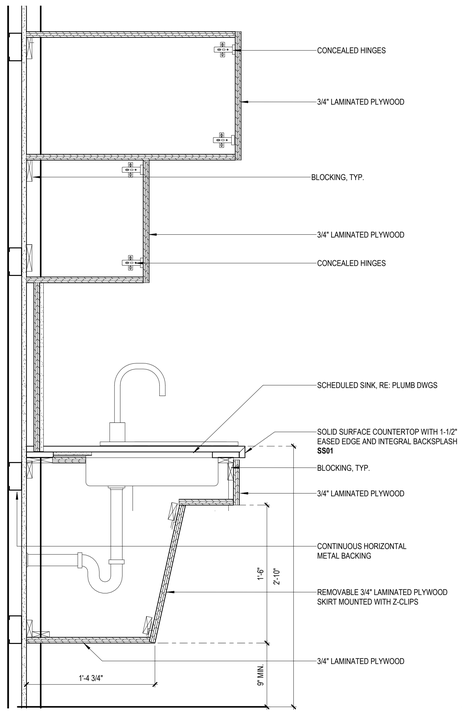
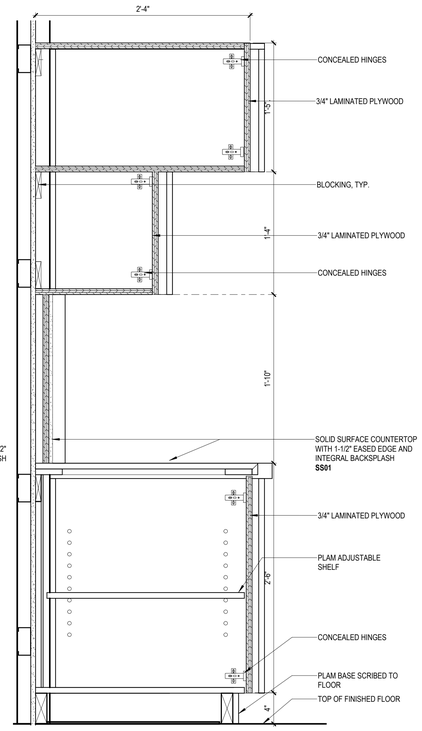
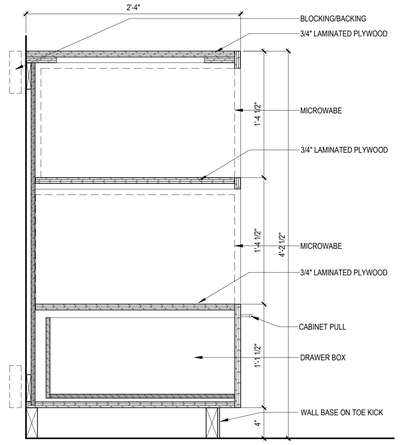


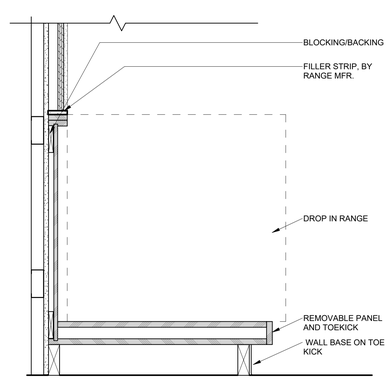
MILLWORK AT BREAKEROOM 1 1/2" = 1'-0" **14**



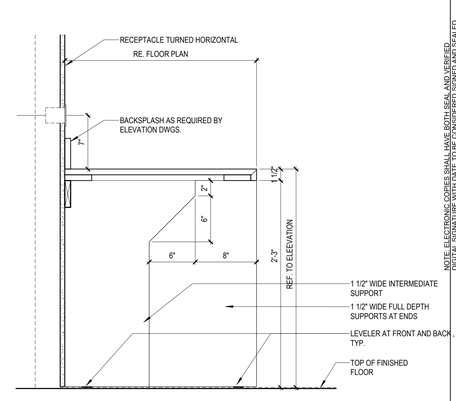
MILLWORK AT BREAKROOM 1 1/2" = 1'-0" **12**



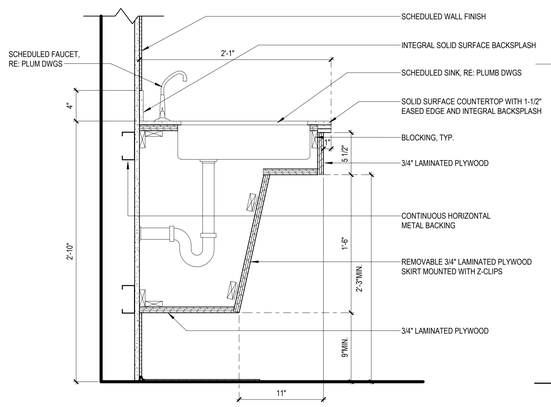
BASE CABINET W/ 2 APPLIANCE SHELVES 1 1/2" = 1'-0" **10**



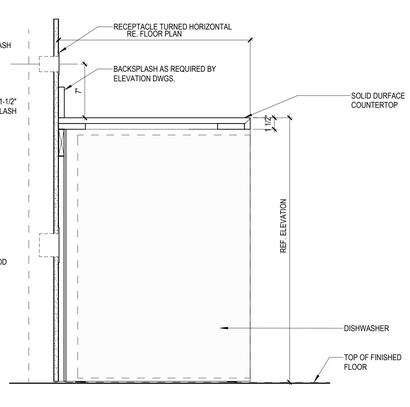
BASE CABINET W/RANGE 1 1/2" = 1'-0" **6**



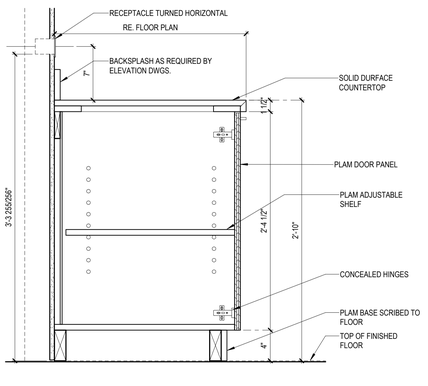
WORK COUNTER DETAIL 1 1/2" = 1'-0" **2**



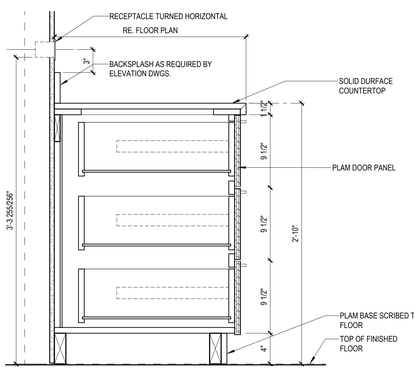
BASE CABINET AT SINK 1 1/2" = 1'-0" **13**



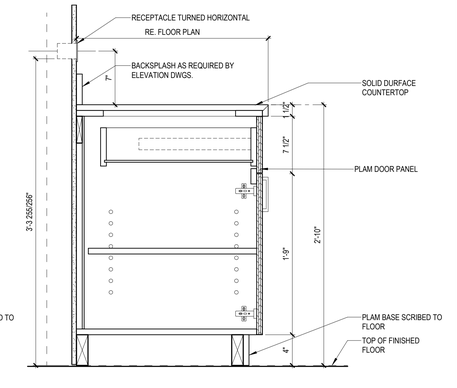
SECTION AT EQUIPEMENT 1 1/2" = 1'-0" **11**



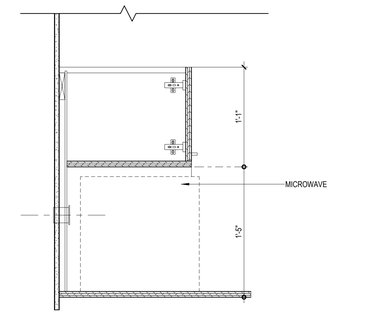
BASE CABINET DETAIL 1 1/2" = 1'-0" **9**



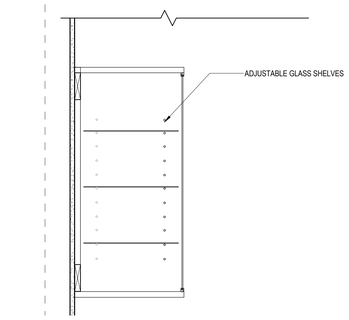
BASE CABINET W/ DRAWERS 1 1/2" = 1'-0" **5**



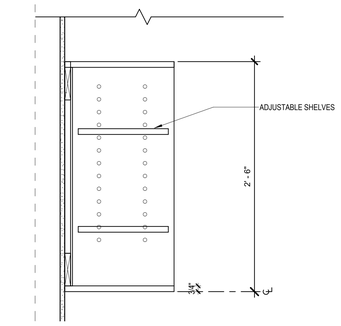
BASE CABINET W/ DRAWER 1 1/2" = 1'-0" **1**



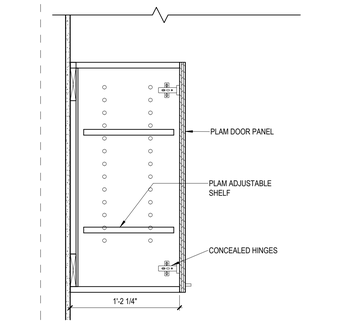
CABINET SECTION AT MICROWAVE 1 1/2" = 1'-0" **8**



WALL CABINET DETAIL 1 1/2" = 1'-0" **4**



WALL CABINET DETAIL 1 1/2" = 1'-0" **7**



WALL CABINET DETAIL 1 1/2" = 1'-0" **3**

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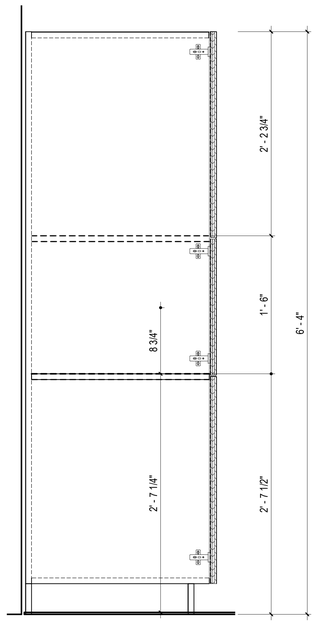
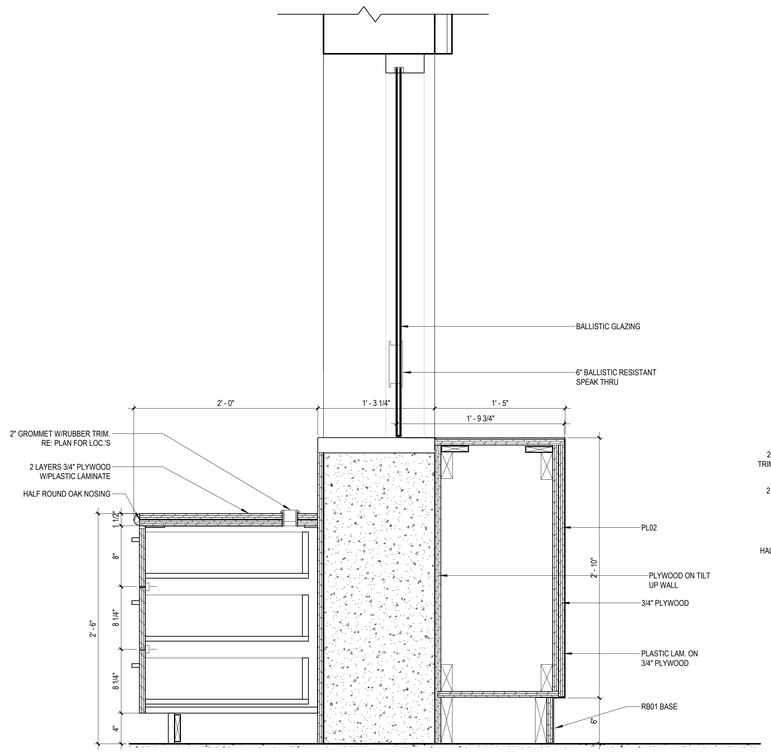
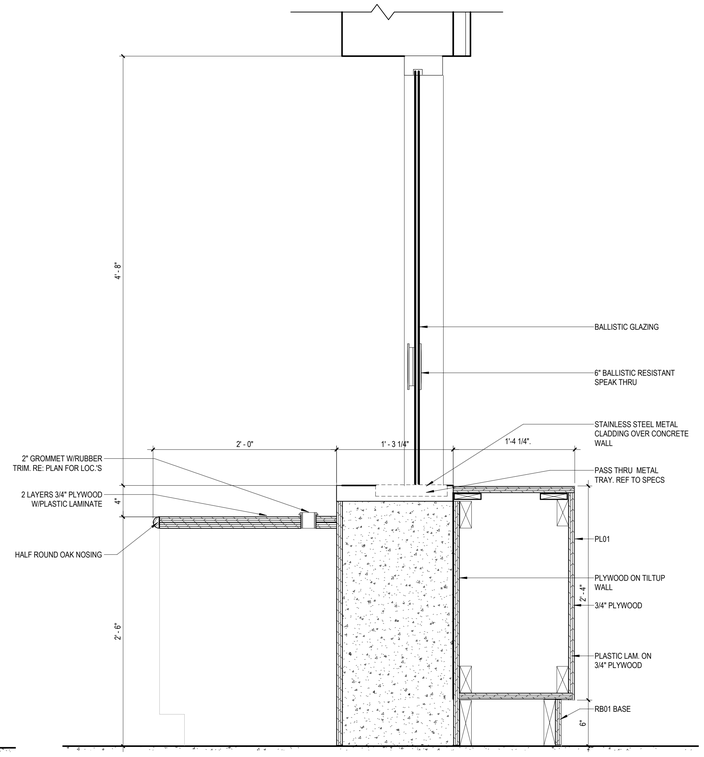


LOCKER DETAIL 1 1/2" = 1'-0" (3)



LOBBY FRONT DESK1 1 1/2" = 1'-0" (2)



LOBBY FRONT DESK 1 1/2" = 1'-0" (1)

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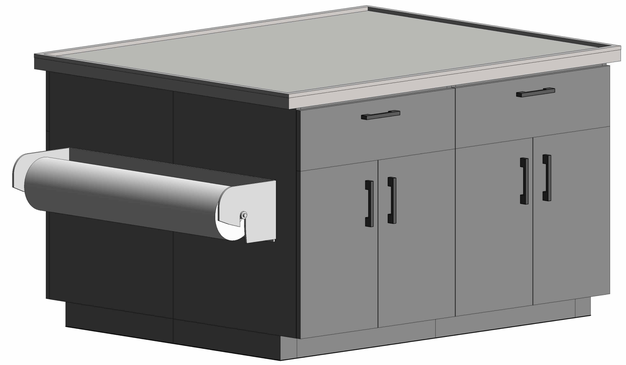


EVIDENCE DROP TABLE ISOMETRIC VIEW 3

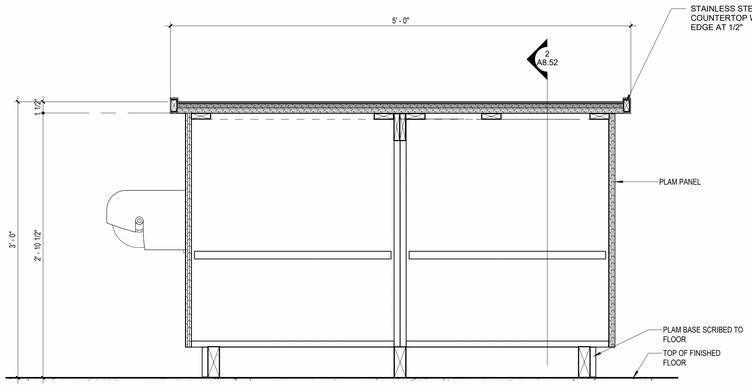
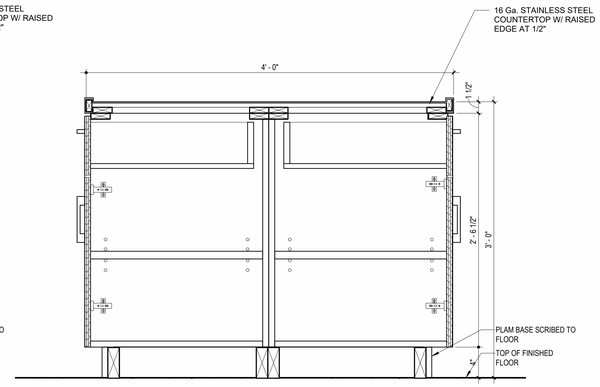


TABLE MILLWORK DETAIL 1 1/2" = 1'-0" 7



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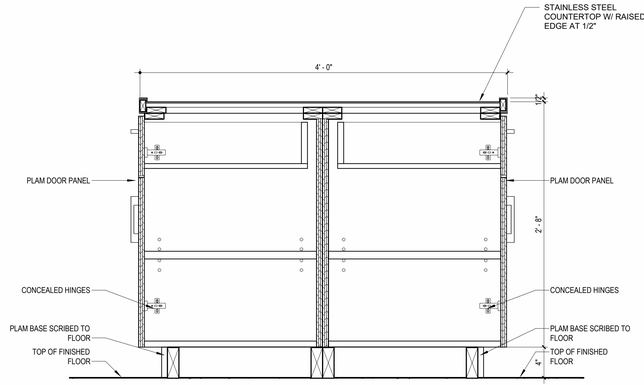


TABLE MILLWORK DETAIL 1 1/2" = 1'-0" 2

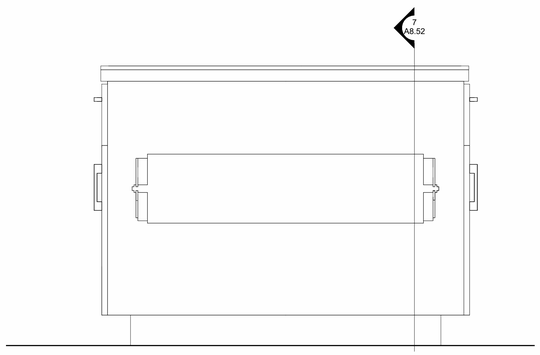


TABLE ELEVATION 1 1/2" = 1'-0" 6

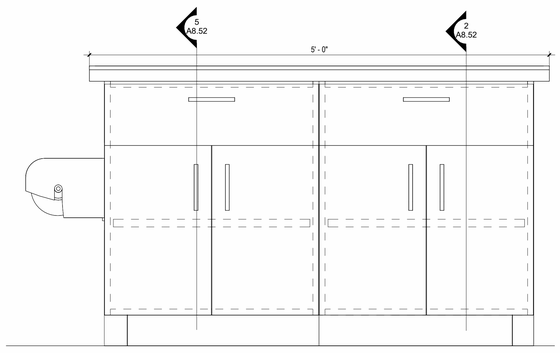
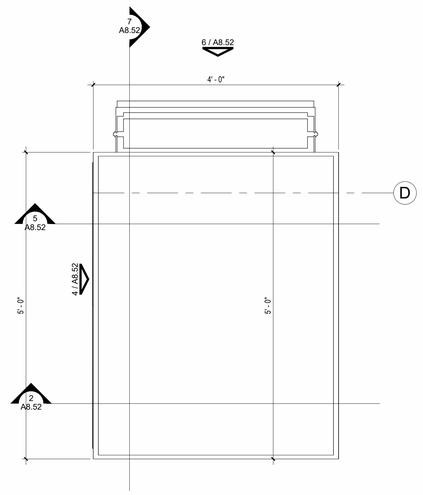


TABLE ELEVATION 1 1/2" = 1'-0" 4



EVIDENCE DROP TABLE 1" = 1'-0" 1

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MILLWORK DETAILS

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ROOM FINISH SCHEDULE LEVEL 1

№	NAME	FLOOR FINISH	BASE FINISH	WALL FINISHES NORTH	EAST	SOUTH	WEST	CEILINGS FINISH	COMMENTS
100	BLDG. LOBBY	TZ01	TZB01	PT01	PT01	PT01	PT01/EG02	WD01 / PT04 / EXP	
100A	CORRIDOR	TZ01	TZB01	PT01	PT01	PT01	PT01	PT04 / EXP	
100B	CORRIDOR	TZ01	TZB01	PT01	PT01	PT01	PT01/T01	PT04 / EXP	
100C	CORRIDOR	TZ01	TZB01	PT01	PT01	PT01	PT01	PT04 / EXP	
100D	VESTIBULE	TZ01	TZB01	PT01	PT01	PT01	PT01	GWB / PT01	
100E	CORRIDOR	TZ01	TZB01	PT01	PT01	PT01	PT01	PT04 / EXP	
100F	CORRIDOR	TZ01/TZ02	TZB01/TZB02	PT02	PT01	PT01	PT02	PT04 / EXP	
100G	CORRIDOR	TZ01/TZ02	TZB01/TZB02	PT01	PT02	PT01	PT02	PT04 / EXP	PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS
100H	CORRIDOR	TZ01 / TZ02	TZB01/TZB02	PT01	PT01	PT01	PT01	PT04 / EXP	PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS
100I	VESTIBULE	LVT01	RB01	PT01	PT01	PT01	T01 / PT01	PT04 / EXP	PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS
100J	CORRIDOR	TZ01	TZB01	PT01	PT01	PT01	PT01	PT04 / EXP	PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS
101	RECORDS	LVT01	RB01	PT01	PT01	PT01	PT01	ACP01	
101A	RECORDS RECEPTION	LVT01	RB01	PT01	PT01	PT01	PT02	ACP01	
101B	FINGER PRINT/ ID CARD	LVT01	RB01	PT01	PT01	PT01	PT01	ACP03	
101C	RECORDS SUPER.	CPT02	RB01	PT01	PT01	PT01	PT01	ACP03	
101D	RECORDS STOR.	LVT01	RB01	PT01	PT01	PT01	PT01	ACP03	
102	VICTIM ADVOCATE	CPT02	RB01	PT01	PT01	PT01	PT01	ACP01	PROVIDE CORNER GUARDS AT ALL EXPOSED STUD WALL CORNERS
102A	RECEPTION	LVT01	RB01	PT01	PT01	PT01	PT01	ACP01	
102B	INTERVIEW	CPT02	RB01	PT01	PT01	PT01	PT01	ACP01	
102C	SUPERVISOR	CPT02	RB01	PT01	PT01	PT01	PT01	ACP03	
103	CODE ENFORCEMENT	LVT01	RB01	PT01	PT01	PT02	PT01	ACP01	
103A	SUPERVISOR	LVT01	RB01	PT01	PT01	PT01	PT01	ACP03	
104	ARMORY	EP01	EP01	PT01	PT01	PT01	PT01	PT04 / EXP	
104A	BULK DELIVERY VESTIBULE	EP01	EP01	PT01	PT01	PT01	PT01	PT04 / EXP	
105	QUARTERMASTER & STORAGE	EP01	EP01	PT01	PT01	PT01	PT01	PT04 / EXP	
106	QUIET ROOM	CPT02	RB01	PT01	PT01	PT01	PT01	ACP01	
107	CONTROL	EP01	EP01	PT01	PT01	PT01	PT01	ACP03	
107A	CIRCULATION	EP01	EP01	PT01	PT01	PT01	PT01	GWB / PT01	
107B	STORAGE	EP01	EP01	PT01	PT01	PT01	PT01	GWB / PT01	
107C	JANITOR	EP01	EP01	FRP/ PT01	FRP/ PT01	FRP/ PT01	FRP/ PT01	GWB / PT01	
107D	INTERVIEW	EP01	EP01	PT01	PT01	PT01	PT01	GWB / PT01	
107E	HOLDING BLOCK	EP01	EP01	PT01	PT01	PT01	PT01	GWB / PT01	
107F	CELL	EP01	EP01	PT01	PT01	PT01	PT01	GWB / PT01	EXPOSED STEEL PT04
107G	CELL	EP01	EP01	PT01	PT01	PT01	PT01	GWB / PT01	EXPOSED STEEL PT04
107H	CELL	EP01	EP01	PT01	PT01	PT01	PT01	GWB / PT01	EXPOSED STEEL PT04
107J	CELL	EP01	EP01	PT01	PT01	PT01	PT01	GWB / PT01	EXPOSED STEEL PT04
107K	INTERVIEW	EP01	EP01	PT01	PT01	PT01	PT01	GWB / PT01	
107L	BOOKING	EP01	EP01	PT01	PT01	PT01	PT01	GWB / PT01	
107M	DUI	EP01	EP01	PT01	PT01	PT01	PT01	GWB / PT01	
107N	HOLDING BLOCK	EP01	EP01	PT01	PT01	PT01	PT01	GWB / PT01	
107O	CELL	EP01	EP01	PT01	PT01	PT01	PT01	GWB / PT01	EXPOSED STEEL PT04
107P	CELL	EP01	EP01	PT01	PT01	PT01	PT01	GWB / PT01	EXPOSED STEEL PT04
107Q	CELL	EP01	EP01	PT01	PT01	PT01	PT01	GWB / PT01	EXPOSED STEEL PT04
107R	CELL	EP01	EP01	PT01	PT01	PT01	PT01	GWB / PT01	EXPOSED STEEL PT04
107S	ADA RESTROOM	EP01	EP01	FRP/ PT01	FRP / PT01	FRP/ PT01	FRP/ PT01	GWB / PT01	
108	FLEX SPACE	LVT01	RB01	PT01	PT01	PT01	PT01 / AWP02	PT04 / EXP	
109	MECHANICAL ROOM	SC01	RB01	PT01	PT01	PT01	PT01	PT04 / EXP	
110	I.T.	SC01	RB01	PT01	PT01	PT01	PT01	PT04 / EXP	
111	FLEX SPACE	LVT01	RB01	PT01	PT01	PT01	PT01	PT04 / EXP	
112	CRIME SCENE UNIT	LVT01	RB01	PT02	PT01	PT02	PT01/PT02	ACP01	
112A	SUPERVISOR	LVT01	RB01	PT01	PT01	PT01	PT01	ACP03	
112B	CRIME SCENE LAB	EP03	EP03	PT01	PT01	PT01	PT01	ACP01	
112C	PHOTOGRAPHY	EP03	EP03	PT01	PT01	PT01	PT01	ACP03	
112D	LATENT PROCESSING	EP03	EP03	PT01	PT01	PT01	PT01	ACP03	
112E	VESTIBULE	EP02	EP02	PT01	PT01	PT01	PT01	PT04 / EXP	
113	CONFERENCE	TZ01	RB01	EG05	PT01	PT01	EG05	WD01/ EXP	SEE INTERIOR ELEVATIONS FOR EXTENT OF ACOUSTICAL WALL TREATMENT
113A	ADA RR	EP03	EP03	T01 / PT01	T01 / PT01	T01 / PT01	T01 / PT01	GWB / PT01	
113B	RR	EP03	EP03	T01 / PT01	T01 / PT01	T01 / PT01	T01 / PT01	GWB / PT01	
113C	RR	EP03	EP03	T01 / PT01	T01 / PT01	T01 / PT01	T01 / PT01	GWB / PT01	
113D	ADA RR	EP03	EP03	T01 / PT01	T01 / PT01	T01 / PT01	T01 / PT01	GWB / PT01	
114	EVIDENCE STORAGE	EP03	EP03	PT01	PT01	PT01	PT01	PT04 / EXP	PROVIDE CORNER GUARDS AT ALL EXPOSED STUD WALL CORNERS
114A	DRUGS	EP01	EP01	PT01	PT01	PT01	PT01	ACP03	
114B	CASH, JEWELRY, AND AMMO	EP03	EP03	PT01	PT01	PT01	PT01	ACP03	
114C	GUNS	EP03	EP03	PT01	PT01	PT01	PT01	ACP03	
115	EVIDENCE WORK STATIONS	CPT02	RB01	PT01/PT02	PT01	PT01	PT01	ACP01	PROVIDE CORNER GUARDS AT ALL EXPOSED STUD WALL CORNERS
115A	EVIDENCE VIEWING	LVT01	RB01	PT01	PT01	PT01	PT01	ACP03	
115B	SUPERVISOR	CPT02	RB01	PT01	PT01	PT01	PT01	ACP03	

ROOM FINISH SCHEDULE LEVEL 1

№	NAME	FLOOR FINISH	BASE FINISH	WALL FINISHES NORTH	EAST	SOUTH	WEST	CEILINGS FINISH	COMMENTS
115C	COPY & WORK AREA	CPT02	RB01	PT01	PT01	PT01	PT01	ACP01	
116	EVIDENCE DROP	TZ01	TZB01	PT01 /PT02	PT01	PT01	PT01 /PT02	GWB / PT01	
117	TRAFFIC	LVT01	RB01	PT02	PT01	PT01	PT01	ACP01	
117A	TRAFFIC SGT.	CPT02	RB01	PT01	PT01	PT01	PT01	ACP03	
117B	TRAFFIC WORKROOM	LVT01	RB01	PT01	PT01	PT01	PT01	ACP01	
118	PATROL	LVT01	RB01	PT01	PT01	PT01	EG01/PT01	ACP01	PROVIDE CORNER GUARDS AT ALL EXPOSED STUD WALL CORNERS
118A	CAPTAIN	CPT02	RB01	PT01	PT01	PT01	PT01	ACP03	
118B	CAPTAIN	CPT02	RB01	PT01	PT01	PT01	PT01	ACP03	
118C	CAPTAIN	CPT02	RB01	PT01	PT01	PT01	PT01	ACP03	
118D	CAPTAIN	CPT02	RB01	PT01	PT01	PT01	PT01	ACP03	
118E	MEETING	CPT02	RB01	PT01	PT01	PT01	PT01	ACP03	
119	MAIL/BODYCAM	LVT01	RB01	PT01	PT01	PT01	PT01	ACP03	
120	BRIEFING	LVT01	RB01	PT01	F01	PT01	PT01	ACP02	SEE INTERIOR ELEVATIONS FOR EXTENT OF ACOUSTICAL WALL TREATMENT
120A	STOR.	LVT01	RB01	PT01	PT01	PT01	PT01	GWB / PT01	
121	TRAINING	LVT01	RB01	PT01	PT01	PT01	F01	ACP02	SEE INTERIOR ELEVATIONS FOR EXTENT OF ACOUSTICAL WALL TREATMENT
121A	STOR.	LVT01	RB01	PT01	PT01	PT01	PT01	GWB / PT01	
122	INTERVIEW	LVT01	RB01	PT01	PT01	PT01	PT01	ACP01	
123	INTERVIEW	LVT01	RB01	PT01	PT01	PT01	PT01	ACP01	
124	FAMILY INTERVIEW	LVT01	RB01	PT01	PT01	PT01	PT01	ACP01	
125	JAN.	SC01	RB01	FRP/ PT01	FRP/ PT01	FRP/ PT01	FRP/ PT01	GWB / PT01	
126A	ADA RR	T05	RB01	T03 / PT01	T03 / PT01	T03 / PT01	T03 / PT01	GWB / PT01	
126B	RR	EP03	EP03	T01/ PT01	T01 / PT01	T01 / PT01	T01 / PT01	GWB / PT01	
126C	ADA RR	EP03	EP03	T01/ PT01	T01 / PT01	T01 / PT01	T01 / PT01	GWB / PT01	
127	TRAINING SUPERVISOR	LVT01	RB01	PT01	PT01	PT01	PT01	ACP03	
128	TRAINING OFFICER	LVT01	RB01	PT01	PT01	PT01	PT01	ACP03	
129	BREAKROOM	TZ01 / TZ02	TZB01/ TZB02	PT01	PT01	PT01	PT01	WD01 / EXP	
130	GYM	R01	RB01	WP01 /PT01	WP01 / PT01 / EG03	WP01 /PT01	MR01 /WP02/ PT01	PT04 / EXP	AT WEST WALL PROVIDE TEMPERED GLASS. SAFETY BACKED MIRRORS UP TO 8'-0" AFF. PROVIDE WP02 AT BALANCE OF WALLS WHERE PADS/MIRRORS ARE NOT LOCATED
130A	FITNESS STORAGE	R01	RB01	PT01	PT01	PT01	PT01	PT04 / EXP	
131	LOCKER ROOM	EP03	EP03	PT01	PT01	PT01	T01 / PT01	ACP04	
131A	BATHROOM	EP03	EP03	T01 / PT01	T01 / PT01	T01 / PT01	T01 / PT01	ACP04	SS02 SHOWER SURROUND, SEE ELEVATIONS FOR EXTENT OF TILE FINISH
131B	BATHROOM	EP03	EP03	T01 / PT01	T01 / PT01	T01 / PT01	T01 / PT01	ACP04	SS02 SHOWER SURROUND, SEE ELEVATIONS FOR EXTENT OF TILE FINISH
131C	BATHROOM	EP03	EP03	T01 / PT01	T01 / PT01	T01 / PT01	T01 / PT01	ACP04	SS02 SHOWER SURROUND, SEE ELEVATIONS FOR EXTENT OF TILE FINISH
131D	BATHROOM	EP03	EP03	T01 / PT01	T01 / PT01	T01 / PT01	T01 / PT01	ACP04	SS02 SHOWER SURROUND, SEE ELEVATIONS FOR EXTENT OF TILE FINISH
131E	BATHROOM	EP03	EP03	T01 / PT01	T01 / PT01	T01 / PT01	T01 / PT01	ACP04	SS02 SHOWER SURROUND, SEE ELEVATIONS FOR EXTENT OF TILE FINISH
131F	BATHROOM	EP03	EP03	T01 / PT01	T01 / PT01	T01 / PT01	T01 / PT01	ACP04	SS02 SHOWER SURROUND, SEE ELEVATIONS FOR EXTENT OF TILE FINISH
131G	ADA	EP03	EP03	T01 / PT01	T01 / PT01	T01 / PT01	T01 / PT01	ACP04	SS02 SHOWER SURROUND, SEE ELEVATIONS FOR EXTENT OF TILE FINISH
131H	ADA	EP03	EP03	T01 / PT01	T01 / PT01	T01 / PT01	T01 / PT01	ACP04	SS02 SHOWER SURROUND, SEE ELEVATIONS FOR EXTENT OF TILE FINISH
132	JANITOR	EP01	EP01	FRP/ PT01	FRP/ PT01	FRP/ PT01	FRP/ PT01	PT04 / EXP	
133	OUTDOOR STORAGE	SC01	EP02	PT01	PT01	PT01	PT01	PT04 / EXP	
134	SALLYPORT	EP02	EP02	PT01	PT01	PT01	PT01	PT04 / EXP	SEE EXTERIOR ELEVATIONS FOR FINISHES
134A	MOTORCYCLE PARKING	EP02	EP02	PT01	PT01	PT01	PT01	PT01 / EXP	SEE EXTERIOR ELEVATIONS FOR FINISHES
135	MARINE STORAGE	SC01	RB01	PT01	PT01	PT01	PT01	PT01 / EXP	
136	BOOSTER PUMP ROOM	CPT02	RB01	PT01	PT01	PT01	PT01	ACP03	
150	GENERATOR BUILDING	SC01	RB01	PT01	PT01	PT01	PT01	PT04 / EXP	
150A	EMERGENCY SWITCH BOARD	SC01	RB01	PT01	PT01	PT01	PT01	PT04 / EXP	
151	FIRE PUMP ROOM	SC01	RB01	PT01	PT01	PT01	PT01	PT04 / EXP	
197A	STAIR	R02 / SC01	RB01	PT01	PT01	EG	PT01	PT04 / EXP	EXPOSED STAIR STRUCTURE / RAILS PT02
197B	STAIR	R02 / SC01	RB01	EG	PT01	PT01	PT01	PT04 / EXP	EXPOSED STAIR STRUCTURE / RAILS PT02
197C	ELEV.	TZ01	SST01	PL02/SS T01	PL02/S ST01	PL02/SS T01	PL02/S ST01	SST01	
FIRST FLOOR									

ROOM FINISH SCHEDULE LEVEL 2

№	NAME	FLOOR FINISH	BASE FINISH	WALL FINISHES NORTH	EAST	SOUTH	WEST	CEILINGS FINISH	HEIGHT	COMMENTS
	OUTDOOR PATIO	T02			PT02				9' - 0"	
200	CORRIDOR	LVT01	RB01	PT01	PT01	PT01	PT01	GWB / PT01	9' - 0"	PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS
201	EXEC. SUITE ADMIN	LVT01	RB01	PT01/EG06	PT01/EG06	PT01	PT01	WD01 / PT04 / EXP	9' - 0"	PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS
201A	EXEC. KITCHEN	LVT01	RB01	PT01	PT01	PT01	PT01	ACP04	9' - 0"	
201B	EXEC. CONFERENCE	CPT04	RB01	PT01	PT01	WD01	PT01	WD01 / PT04 / EXP	13' - 0"	SEE INTERIOR ELEVATIONS FOR EXTENT OF ACOUSTICAL WALL TREATMENT
202	CHIEF'S ADMIN	LVT01	RB01	PT01	PT01/AWP02	PT01/EG05	PT01	WD01 / PT04 / EXP	9' - 0"	PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS
202A	CHIEF'S OFFICE	CPT04	RB01	PT01	PT01	PT01	PT01	ACP03	9' - 0"	
202B	DEPUTY CHIEF	CPT04	RB01	PT01	PT01	PT01	PT01	ACP03	9' - 0"	
202C	CHIEF'S CONFERENCE	CPT04	RB01	GB01	PT01	GB01	PT01	ACP01	9' - 0"	
202D	BATH	T05	WB02	T04 / PT01	T04 / PT01	T04 / PT01	T04/ PT01	GWB / PT01	8' - 6"	SS02 SHOWER SURROUND, SEE ELEVATIONS FOR EXTENT OF TILE FINISH
202E	BATH	T05	WB02	T04 / PT01	T04 / PT01	T04 / PT01	T04 / PT01	GWB / PT01	8' - 6"	SS02 SHOWER SURROUND, SEE ELEVATIONS FOR EXTENT OF TILE FINISH
202F	STOR.	LVT01	RB01	PT01	PT01	PT01	PT01	ACP03	9' - 0"	
202G	ADMIN STOR.	LVT01	RB01	PT01	PT01	PT01	PT01	ACP03	9' - 0"	
203	CORRIDOR	LVT01	RB01	PT01	PT01	PT01	PT01	PT04 / EXP	9' - 0"	PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS
203A	ASSISTANT CHIEF	CPT03	RB01	PT01	PT01	PT01	PT01	ACP03	9' - 0"	
203B	ASSISTANT CHIEF	CPT03	RB01	PT01	PT01	PT01	PT01	ACP03	9' - 0"	
203C	MAJOR	CPT03	RB01	PT01	PT01	PT01	PT01	ACP03	9' - 0"	
203D	MAJOR	CPT03	RB01	PT01	PT01	PT01	PT01	ACP03	9' - 0"	
203E	MAJOR	CPT03	RB01	PT01	PT01	PT01	PT01	ACP03	9' - 0"	
203F	ADA RR	EP03	EP03	T01 / PT01	T01 / PT01	T01 / PT01	T01 / PT01	GWB / PT01	8' - 6"	
203G	STOR.	LVT01	RB01	PT01	PT01	PT01	PT01	ACP03	9' - 0"	
204	INTERNAL AFFAIRS	LVT01	RB01	PT01	PT01	PT01	PT01	ACP01	9' - 0"	PROVIDE CORNER GUARDS AT ALL EXPOSED STUD WALL CORNERS
204A	COMMANDER	CPT03	RB01	PT01	PT01	PT01	PT01	ACP03	9' - 0"	
204B	SGT.	CPT03	RB01	PT01	PT01	PT01	PT01	ACP03	9' - 0"	
204C	INVESTIGATOR	CPT03	RB01	PT01	PT01	PT01	PT01	ACP03	9' - 0"	
204D	BACKGROUND INVESTIGATOR	CPT03	RB01	PT01	PT01	PT01	PT01	ACP03	9' - 0"	
204E	PERSONNEL/ IA FILES	LVT01	RB01	PT01	PT01	PT01	PT01	ACP03	9' - 0"	PROVIDE CORNER GUARDS AT ALL EXPOSED STUD WALL CORNERS
204F	INTERVIEW	CPT03	RB01	PT01	PT01	PT01	PT01	ACP01	9' - 0"	
205	TECH SPECIALIST	LVT01	RB01	PT01	PT01	PT01	PT01	ACP03	8' - 0"	
206	MECHANICAL ROOM	SC01	RB01	PT01	PT01	PT01	PT01	PT04 / EXP	8' - 0"	
207	DETECTIVE BUREAU	CPT03	RB01	PT01	PT01	PT01	PT01	ACP01/EXP/PT04/WD01	9' - 0"	
207A	MAJOR	CPT03	RB01	PT01	PT01	PT01	PT01	ACP03	9' - 0"	
207B	CAPTAIN	CPT03	RB01	PT01	PT01	PT01	PT01	ACP03	9' - 0"	
207C	SGT	CPT03	RB01	PT01	PT01	PT01	PT01	ACP03	9' - 0"	
207D	INTERVIEW	EP01	RB01	PT01	PT01	PT01	PT01	ACP01	9' - 0"	
208	LACTATION	LVT01	RB01	PT01	PT01	PT01	PT01	ACP01	8' - 0"	
209A	ADA RR	EP03	EP03	T01 / PT01	T01 / PT01	T01 / PT01	GWB / PT01		8' - 0"	
209B	RR	EP03	EP03	T01 / PT01	T01 / PT01	T01 / PT01	GWB / PT01		8' - 0"	
209C	RR	EP03	EP03	T01 / PT01	T01 / PT01	T01 / PT01	GWB / PT01		8' - 0"	
210	TECH WORKROOM	LVT01	RB01	PT01	PT01	PT01	PT01	ACP03	8' - 0"	
211	TECH ADMIN.	LVT01	RB01	PT01	PT01	PT01	PT01	ACP03	8' - 0"	
212	I.T. DATA ROOM	SC01	RB01	PT01	PT01	PT01	PT01	PT04 / EXP	8' - 0"	
213	COMMUNICATIONS	CPT03	RB01	PT01	PT01	PT01	PT01	ACP01	10' - 0"	
213A	SUPER	CPT03	RB01	PT01	PT02	PT01	PT01	ACP01	9' - 0"	
213C	SUPER	CPT03	RB01	PT01	PT02	PT01	PT01	ACP03	9' - 0"	
213D	SUPER	CPT03	RB01	PT01	PT02	PT01	PT01	ACP03	9' - 0"	
213E	MANAGER	CPT03	RB01	PT01	PT01	PT02	PT01	ACP03	9' - 0"	
213F	QUIET ROOM	CPT03	RB01	PT01	PT01	AWP01	PT01	ACP03	9' - 0"	
213G	BREAK AREA	LVT01	RB01	PT01	PT01	PT02	PT01	ACP04	9' - 0"	
213H	ADA BR	EP03	EP03	T01 / PT01	T01 / PT01	T01 / PT01	GWB / PT01		8' - 6"	SS02 SHOWER SURROUND, SEE ELEVATIONS FOR EXTENT OF TILE FINISH
214	TAC	CPT03	RB01	PT01	PT01	PT01	PT01	ACP01	9' - 0"	PROVIDE CORNER GUARDS AT ALL EXPOSED STUD WALL CORNERS
214A	SGT	CPT03	RB01	PT01	PT01	PT01	PT01	ACP01	9' - 0"	
215	CONFERENCE ROOM	CPT02	RB01	PT01	EG05	PT01	PT01	WD01 / PT04 / EXP	9' - 0"	
216	BREAKROOM	LVT01	RB01	PT01	EG05	EG04	PT01	WD01 / PT04 / EXP	9' - 0"	
217	STOR.	LVT01	RB01	PT01	PT01	PT01	PT01	ACP01	9' - 0"	
218	RTC	CPT03	RB01	PT01	PT01	PT01	PT01	ACP01	10' - 0"	SEE INTERIOR ELEVATIONS FOR EXTENT OF ACOUSTICAL WALL TREATMENT
218A	RTC OFFICE	CPT03	RB01	PT01	PT01	PT01	PT01	ACP03	10' - 0"	SEE INTERIOR ELEVATIONS FOR EXTENT OF ACOUSTICAL WALL TREATMENT
218B	SKIFF	CPT05	RB01	PT01	PT01	PT01	PT01	ACP01	10' - 0"	SEE INTERIOR ELEVATIONS FOR EXTENT OF ACOUSTICAL WALL TREATMENT
218C	RTC AV ROOM	LVT01	RB01	PT01	PT01	PT01	PT01	ACP03	9' - 0"	
219	DIGITAL FORENSICS	LVT01	RB01	PT01	PT01	PT01	PT01	ACP03	9' - 0"	
220	ACCREDITATION	CPT03	RB01	PT01	PT01	PT01	PT01	ACP03	9' - 0"	
221	PIO	CPT03	RB01	PT01	PT01	PT01	PT01	ACP03	9' - 0"	
222	PAYROLL OFFICE	CPT03	RB01	PT01	PT01	PT01	PT01	ACP03	9' - 0"	
223	PURCHASING	CPT03	RB01	PT01	PT01	PT01	PT01	ACP03	9' - 0"	
224	MAIN ELECTRICAL ROOM	SC01	RB01	PT01	PT01	PT01	PT01	PT04 / EXP	13' - 0"	
225	BDA EQUIP.	LVT01	RB01	PT01	PT01	PT01	PT01	ACP01	9' - 0"	
286	SALLYPORT ROOF								10' - 0"	
297A	STAIR	R02 / SC01	RB01	PT01	PT01	EG	PT01	PT04 / EXP	13' - 0"	EXPOSED STAIR STRUCTURE / RAILS PT02
297B	STAIR	R02 / SC01	RB01	EG	PT01	PT01	PT01	PT04 / EXP	13' - 0"	EXPOSED STAIR STRUCTURE / RAILS PT02
397A	STAIR	R02 / SC01	RB01	EG	PT01	PT01	PT01	PT04 / EXP	8' - 0"	EXPOSED STAIR STRUCTURE / RAILS PT02
415	OPEN WORK AREA	LVT01	RB01	PT01	PT01	PT01	EG06	WD01 / PT04 / EXP	9' - 0"	
Grand total										

CLIENT

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REGISTRATION

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STATE OF FLORIDA JOBY L. BALINT REGISTERED ARCHITECT AR0016653

JOBY L. BALINT, AIA AR-0016653

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DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER
1007657.00

SHEET TITLE
ROOM FINISH SCHEDULES

SHEET NUMBER
AF1.10

FILE NAME: Autodesk Docs://_1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
DATE STAMP: 10/24/2025 1:43:40 PM

GENERAL NOTES

1. PAINT ALL WALL SURFACES, DOOR FRAMES, SOFFITS, AND CEILINGS U.N.O
2. PAINT ALL MECHANICAL AND ELECTRICAL EQUIPMENT EXPOSED IN FINISHED SPACES U.N.O.
3. THE TRANSITION OF DIFFERENT FLOORING MATERIALS AT A DOORWAY SHALL OCCUR AT THE CENTERLINE OF THE DOOR U.N.O.
4. SEE FLOOR FINISH TRANSITIONS AND WALL BASE DETAILS ON SHEET XX.XX
5. REFER TO INTERIOR ELEVATION SHEETS FOR ADDITIONAL FINISH INFORMATION.
6. REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES AND SPECIFICATIONS
7. REFER TO ROOM FINISH SCHEDULE AND MATERIAL SCHEDULE FOR MORE INFORMATION
8. ALL FLOORING TO BE WALL TO WALL UNDER CABINETS AND MILLWORK, TYP.
9. ALL FRAMED WALL CONDITIONS AT EXTERIOR OPENINGS, PROVIDE SOLID SURFACE SILLS SS01 U.N.O.
10. PROVIDE TERRAZZO DIVIDER STRIPS AT CONTROL JOINTS AT 25' O.C. AS INDICATED ON THE FINISH PLANS
11. PROVIDE CORNER GUARDS AT ALL OUTSIDE CORNERS OF CORRIDORS. SEE MATERIAL SCHEDULE FOR MORE INFORMATION
12. PROVIDE METAL TRANSITION STRIPS AT OUTSIDE CORNERS OF ALL TILED WALL CONDITIONS.

FLOOR FINISH LEGEND

- CPT01 WALK OFF CARPET TILE
- CPT02 CARPET TILE
- CPT03 CARPET TILE
- CPT04 CARPET TILE
- CPT05 CARPET TILE
- EP01 EPOXY COATING
- EP02 CLEAR EPOXY COATING
- EP03 EPOXY QUARTZ COATING
- LVT01 LUXURY VINYL TILE
- R01 RUBBER FLOORING
- SC01 SEALED CONCRETE
- T02 TILE PAVER
- T05 TILE - LUXURY
- TZ01 TERRAZZO
- TZ02 TERRAZZO
- CG1 - CORNER GUARD

FINISHES TAG

CEILING
WALL
BASE
FLOOR



GROUND FLOOR FINISH PLAN 1/8" = 1'-0" (1)

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
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CLIENT

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CONSTRUCTION MANAGER/BUILDER

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REGISTRATION

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STATE OF FLORIDA JOBY L. BALINT AR0016653 REGISTERED ARCHITECT

JOBY L. BALINT, AIA AR-0016653

DRAWING HISTORY

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2121 AVENUE S.
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PROJECT NUMBER
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SHEET TITLE
GROUND FLOOR FINISH PLAN

SHEET NUMBER
AF2.10

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FLOOR FINISH LEGEND

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- TZ01 TERRAZZO
- TZ02 TERRAZZO
- CG1 - CORNER GUARD

FINISHES TAG

CEILING
WALL
BASE
FLOOR



SECOND FLOOR FINISH PLAN 1/8" = 1'-0" (1)

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CLIENT

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STATE OF FLORIDA
JOBY L. BALINT
AR0016653
REGISTERED ARCHITECT

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RIVIERA BEACH, FL 33404

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SHEET TITLE
SECOND FLOOR FINISH PLAN

SHEET NUMBER
AF2.20

GENERAL STRUCTURAL NOTES

DESIGN CRITERIA

D1 ALL WORK SHALL CONFORM TO AT LEAST THE MINIMUM STANDARDS OF THE FLORIDA BUILDING CODE, EIGHTH EDITION (2023)

D2 DESIGN LOADS PER FLORIDA BLDG. CODE,
SEE PLAN SHEETS FOR FLOOR AND ROOF DESIGN LOADS
WIND DESIGN PER ASCE 7-22
V=220 MPH (3 SECOND ULTIMATE GUST); Vservice = 170 MPH
RISK CATEGORY IV, EXPOSURE C, ENCLOSED BUILDING

h = 30'-0"; H = 34'-0"; a = 10'-6"
qh (ult) = 121 PSF; qh (asd) = 72.5 PSF

SEE THIS SHEET FOR WALL CLADDING PRESSURES
AND FOR ROOF UPLIFT PRESSURES

D3 FOUNDATION DESIGN RECOMMENDATIONS:

FOUNDATIONS ARE DESIGNED FOR AN ALLOWABLE BEARING CAPACITY OF 3000 PSF PER THE FINAL REPORT AND RECOMMENDATIONS PREPARED BY UES DATED OCTOBER 3, 2025.
GC TO FAMILIARIZE THEMSELVES WITH THE REPORT AND RECOMMENDATIONS FOR PREPARING THE BUILDING PAD.

D4 TO THE BEST OF THE ENGINEER'S KNOWLEDGE. THE STRUCTURAL PLANS AND SPECIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE LATEST EDITION.

GENERAL

G1 THE GENERAL CONTRACTOR SHALL REVIEW AND DETERMINE THAT DIMENSIONS ARE COORDINATED BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO FABRICATION OR START OF CONSTRUCTION.

G2 THE GENERAL CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, THE WORK PERSONS, AND OTHER PEOPLE DURING CONSTRUCTION. HE SHALL SUPERVISE AND DIRECT THE WORK AND BE RESPONSIBLE FOR ALL CONSTRUCTION.

G3 NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED OR OTHERWISE REDUCED IN STRENGTH.

G4 THE GENERAL CONTRACTOR SHALL COORDINATE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ANCHORED, EMBEDDED, SUPPORTED ITEMS WHICH AFFECT THE STRUCTURAL DRAWINGS AND NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.

G5 ALL WINDOWS, DOORS, AND LOUVERS SHALL BE INSTALLED PER THEIR DADE COUNTY PRODUCT APPROVAL REQUIREMENTS.

G6 SUBMIT SHOP DRAWINGS IN ELECTRONIC FORM FOR APPROVAL. PAPER COPIES WILL NOT BE REVIEWED. FINAL SEALED SHOP DRAWINGS AND CALCULATIONS TO BE SUBMITTED IN PRINTED FORM FOR SUBMISSION TO THE BUILDING DEPARTMENT AFTER INCORPORATING ALL COMMENTS FROM THE A/E DESIGN TEAM.

SLAB ON GRADE

S1 REFER TO THE GEOTECHNICAL REPORTS NOTED ABOVE FOR PROPER PREPARATION OF THE SUBGRADE FOR THE PROJECT.

S2 CONTROL JOINTS / SAW JOINTS FOR THE SLAB ON GRADE SHALL BE SPACED NO FARTHER THAN 16' ON CENTER IN BOTH DIRECTIONS. THE PANELS SHALL BE CLOSE TO SQUARE. SUBMIT A PROPOSED JOINT PLAN FOR A/E APPROVAL.

CONCRETE AND REINFORCING

C1 CONCRETE WORK SHALL CONFORM TO ACI CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-19)

C2 ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH & PROPERTIES AS FOLLOWS:

		SLUMP	MAX. W/C
TILT-UP PANELS	4000 PSI	5±1"	0.55
FOUNDATIONS	3000 PSI	5±1"	0.58
FLOORS AND ROOF	4000 PSI	5±1"	0.54

C3 CONCRETE MIX DESIGN SUBMITTALS MUST INCLUDE THE AREA IN WHICH THE CONCRETE IS TO BE PLACED (e.g. FOUNDATIONS, SLAB-ON-GRADE, FILLED CELLS, COLUMNS, etc.). FAILURE TO DO SO WILL CAUSE DELAY AND/OR REJECTION OF SUBMITTALS.

C4 REBARS SHALL CONFORM TO ASTM-615 GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.

C5 MINIMUM COVER FOR REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED. REFER TO A.5S.02 FOR TILT-UP PANELS.

FOOTINGS	3"
SLABS ON GRADE	1 1/2" FROM TOP
BEAMS	1 1/2" (ON TIES)
COLUMNS	1 1/2" (ON TIES)

C6 SPLICES AND ANCHORAGE OF REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED.

WELDED WIRE FABRIC	6"
ALL OTHER	48 DIA. (12" MIN)

C7 REINFORCEMENT IN WALLS, FOOTINGS AND BEAMS SHALL BE CONTINUOUS AND LAPPED AS SHOWN ON NOTE M11. HOOK AND LAP ALL CORNER AND INTERSECTING BARS. (SEE TYPICAL DETAILS)

C8 TERMINATE ALL DISCONTINUED ELEVATED SLAB TOP BARS WITH A 180 DEGREE STANDARD HOOK UNLESS OTHERWISE NOTED.

C9 CONTINUOUS TOP BARS SHALL BE SPLICED AT MIDSPAN. CONTINUOUS BOTTOM BARS SHALL BE SPLICED AT CENTER-LINE OF SUPPORTS (OR AS SHOWN ON TYPICAL DETAILS).

C10 AT CHANGES IN DIRECTION OF CONCRETE WALLS, STRIP FOOTINGS AND GRADE BEAMS PROVIDE CORNER BARS AT SAME SIZE AND SPACING AS HORIZONTAL BARS. (REFER TO B/S4.0)

C11 SUBMIT CONCRETE MIX DESIGN FOR APPROVAL.

STRUCTURAL STEEL

SS1 GENERAL CONTRACTOR SHALL ENGAGE A CERTIFIED TESTING AGENCY TO PERFORM INDUSTRY STANDARD INSPECTIONS TO ENSURE CONFORMANCE WITH PLANS AND SPECIFICATIONS (IF PROVIDED). SUBMIT REPORTS TO ARCHITECT AND ENGINEER.

SS2 STEEL WORK SHALL CONFORM TO THE AISC "SPECIFICATIONS" FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS", LATEST EDITION.

SS3 STEEL TUBING SHALL CONFORM TO ASTM A500 GRADE C.

SS4 STRUCTURAL W, C AND MC SHAPES SHALL BE TO ASTM A992, Fy=50KSI. OTHER SHAPES, Ls, PLATES SHALL BE TO ASTM A572, GR. 50 ALL STRUCTURAL STEEL SHALL BE DOMESTICALLY PRODUCED.

SS5 BRACE AND MAINTAIN ALL STEEL IN ALIGNMENT UNTIL OTHER PARTS OF CONSTRUCTION NECESSARY FOR PERMANENT SUPPORT ARE COMPLETED. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING TEMPORARY SHORING AS REQUIRED FOR THE STABILITY OF THE STEEL FRAME UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN COMPLETED AND BUILDING IS ENCLOSED.

SS6 ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF "THE STANDARD CODE FOR WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY. WELDING ELECTRODES SHALL BE E70XX-LOW HYDROGEN FOR SHIELD AND METAL ARC WELDING. ALL WELDING TO BE PERFORMED BY CERTIFIED WELDERS.

SS7 GROUT FOR COLUMN BASE PLATES AND PRESET BEARING PLATES SHALL BE NON-SHRINK, NON-METALLIC GROUT. (5000 PSI MIN)

SS8 SUBMIT SHOP DRAWINGS INDICATING ALL SHOP AND ERECTION DETAILS INCLUDING PROFILES, SIZES, SPACING AND LOCATIONS OF STRUCTURAL MEMBERS, CONNECTION ATTACHMENTS, FASTENERS, LOADS AND TOLERANCES.

SS9 ALL WELDED CONN. SHALL BE 1/4" FILLET ALL AROUND, UNO.
ALL BOLTED CONN. SHALL BE 3/4"DIA. A325 BOLTS, UNO.

SS10 ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. GALVANIZE MEMBERS TO ASTM A123/A123M; PROVIDE SPECIAL HIGH GRADE GALVANIZED COATING PER ASTM B6. MINIMUM COATING THICKNESS IS 1.25 OZ / SQUARE FT FOR ALL SURFACES

EXPANSION ANCHORS

EA1. CARBON STEEL EXPANSION ANCHORS SHALL HAVE A ONE PIECE ANCHOR BODY WITH A LENGTH IDENTIFICATION CODE. THE ANCHORS SHALL HAVE AN EXPANSION MECHANISM WHICH CONSISTS OF A PAIR OF INTERLOCKING INDEPENDENT WEDGES. CARBON STEEL COMPONENTS SHALL BE PLATED ACCORDING TO ASTM SPECIFICATION B 633. EXPANSION ANCHORS MUST MEET THE DESCRIPTION IN FEDERAL SPECIFICATION FF-S-325 FOR CONCRETE EXPANSION ANCHORS.

EA2. EXPANSION ANCHORS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

EA3. EXPANSION ANCHORS SHALL HAVE A MINIMUM ULTIMATE TENSILE AND SHEAR LOADS (LBS) AS SHOWN IN SCHEDULE BELOW:

DIA.	EMBEDMENT (IN)	MIN. EDGE DIST	F'c=3,000 psi		F'c=4,000 psi		INSTALLATION TORQUE (ft/lbs)
			TENSILE	SHEAR	TENSILE	SHEAR	
1/2"	2 1/4"	6 3/4"	4925	7360	5450	7360	65
	3 1/2"		8000	9200	9000	9200	
	6"		8650	9200	9500	9200	
5/8"	2 3/4"	8"	7000	11500	8000	11500	110
	4"		10670	14200	12350	14200	
	7"		13000	14200	14000	14200	
3/4"	3 1/4"	11 1/4"	8700	15500	10000	15500	235
	4 3/4"		15500	19200	18000	19200	
	8"		18500	19200	22000	19200	
1"	4 1/2"	13 1/2"	15200	28500	17500	30500	450
	6"		22500	34500	26500	34500	
	9"		28750	34500	32500	34500	

EXTERIOR LIGHT GAGE METAL FRAMING

MS1 DESIGN OF LIGHT GAGE METAL FRAMING AND THEIR CONNECTIONS TO THE SUPPORTING STRUCTURE IS A DELEGATED ITEM FOR THIS PROJECT. ALL STUD SIZES SHOWN SHALL BE USED FOR BID PURPOSES BUT THE FINAL DESIGN OF THE METAL FRAMING ELEMENTS SHALL BE BY THE SPECIALTY ENGINEER OF RECORD.

MS2 MINIMUM GAGE OF MATERIAL SHALL BE 18 GAGE WHERE SHEATHING IS ATTACHED. (I.E. SOFFIT STUDS, ROOF STUDS, ETC.). ALL MATERIAL TO BE GALVANIZED G90.

MS3 SPECIALTY ENGINEER SHALL HAVE A MINIMUM OF 5 YEARS EXPERIENCE IN SIMILAR STRUCTURAL DESIGNS.

MS4 PLANS SHALL SHOW ALL PERMANENT BRACING AND BLOCKING REQUIREMENTS.

MS5 SEE NOTE G6 ON THIS SHEET REGARDING SUBMISSION REQUIREMENTS.

TILT-UP PANELS

TU1 ALL PANELS ARE VIEWED FROM THE INSIDE

PANEL THICKNESS SHALL BE AS INDICATED IN THE SCHEDULE. SPECIAL ATTENTION MUST BE GIVEN THE LOCATION AND PLACEMENT OF THE REINFORCING

TU2 REFER TO THE ARCHITECTURAL DRAWINGS FOR FINISH REQUIREMENTS, CHAMFERS, REVEALS, ETC.

TU3 PANELS SHALL NOT BE LIFTED UNTIL THE CONCRETE HAS ATTAINED THE MINIMUM MODULUS OF RUPTURE AND COMPRESSIVE STRENGTH AS REQUIRED BY THE LIFTING ENGINEER.

TU4 THE CONTRACTOR SHALL PROVIDE DESIGN FOR THE LIFT INSERTS AND ANY ADDITIONAL REINFORCING STEEL REQUIRED FOR THE LIFTING OPERATION. HOWEVER NO ADDITIONAL REINFORCING SHALL BE ADDED WITHOUT THE EXPRESSED APPROVAL OF THE ENGINEER. THE DESIGNERS OF THE LIFTING INSERTS MUST CONSIDER THE REINFORCING ALREADY PRESENT IN THE PANELS AS INDICATED IN THIS SET OF CONSTRUCTION DRAWINGS.

TU5 THE CONTRACTOR SHALL CHECK ALL PANEL DIMENSIONS, PLATE LOCATIONS, AND DETERMINE THE LOCATIONS OF ALL OPENINGS REQUIRED. NO PANEL WORK SHALL BE PERFORMED WITHOUT THE CONTRACTOR'S APPROVAL OF ALL THE ABOVE. THE CONTRACTOR IS INDICATING THAT HE HAS REVIEWED THE ABOVE AND APPROVES OF THE PANEL DRAWINGS FOR ACCURACY BY THE COMMENCEMENT OF PANEL CONSTRUCTION EVEN IF FORMAL STAMPED APPROVAL HAS NOT BEEN INDICATED ON THOSE DRAWINGS.

TU6 MISCELLANEOUS OPENINGS MAY BE REQUIRED FOR FIRE LINES, PLUMBING, SANITARY LINES, ELECTRICAL CONDUITS, ETC. CORE DRILLING AFTER ERECTION OF THE PANELS MUST HAVE THE APPROVAL OF THE ARCHITECT AND ENGINEER PRIOR TO PERFORMING THE WORK.

TU7 THE REINFORCING STEEL SUPPLIER SHALL PROVIDE SHOP DRAWINGS INDICATING ALL THE NECESSARY INFORMATION REQUIRED TO ACCURATELY POSITION THE REBAR AS INDICATED. ENSURE CHAIRS, BOLSTERS OR OTHER MEANS OF SUPPORTING THE BARS ARE PROVIDED AND ACCURATELY DETAILED.

STEEL JOISTS

SJ1 GENERAL CONTRACTOR SHALL ENGAGE A CERTIFIED TESTING AGENCY TO PERFORM INDUSTRY STANDARD INSPECTIONS TO ENSURE CONFORMANCE WITH PLANS AND SPECIFICATIONS (IF PROVIDED). SUBMIT REPORTS TO ARCHITECT AND ENGINEER.

SJ2 ALL DESIGN, FABRICATION AND ERECTION OF STEEL JOISTS AND BRIDGING SHALL BE IN STRICT ACCORDANCE WITH THE CURRENT SPECIFICATIONS OF STEEL JOIST INSTITUTE AND RECOMMENDED CODE OF STANDARD PRACTICE.

SJ3 THE ENDS OF ALL BRIDGING LINES TERMINATING AT WALLS OR BEAMS SHALL BE ANCHORED TO THE WALL OR BEAM.

SJ4 ALL STEEL JOISTS ARE TO BE CAMBERED AS SPECIFIED BY SJI.

SJ5 PROVIDE BOTTOM AND/OR TOP CHORD EXTENSIONS AS SHOWN ON DRAWINGS.

SJ6 UNLESS NOTED OTHERWISE, MINIMUM JOIST BEARING SHALL BE 2 1/2" ON A STEEL MEMBER OR EMBED PLATE.

SJ7 BRIDGING SHALL BE FURNISHED AND INSTALLED TO MEET THE SIZE AND SPACING REQUIREMENTS OF THE SJI STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOISTS. ALL BRIDGING AND BRIDGING ANCHORS SHALL BE COMPLETELY INSTALLED BEFORE CONSTRUCTION LOADS ARE PLACED ON THE JOISTS. THE LAST TWO JOIST SPACES IN A LINE OF BRIDGING SHALL BE "X" TYPE. ALL JOISTS 40'-0" OR LONGER REQUIRE A ROW OF BOLTED BRIDGING TO BE IN PLACE BEFORE SLACKENING OF HOISTING LINES. OTHER JOISTS REQUIRE SIMILAR BRIDGING CONSULT LATEST SJI SPECIFICATIONS.

SJ8 ALL HANGERS TO SUPPORT MECHANICAL EQUIPMENT, ETC. TO BE SUPPORTED BY THE BOTTOM CHORD OF JOISTS SHALL BE LOCATED AT THE PANEL POINT OF THE JOIST. IF HANGERS MUST BE LOCATED BETWEEN PANEL POINTS, PROVIDE JOIST STIFFENERS. L1 1/2 x 1 1/2 x 3/16 JOIST STIFFENERS MUST BE INSTALLED FROM HANGER TO OPPOSITE CHORD PANEL POINT BEFORE LOAD IS APPLIED.

SJ9 CONTRACTOR TO FURNISH BAR JOIST CERTIFICATIONS SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE SAME STATE AS THE PROJECT LOCATION.

SJ10 FOR NET UPLIFT SEE NET UPLIFT PLAN ON SHEET S1.02 PROVIDE UPLIFT BRIDGING.

SJ11 ALL SPRINKLER AND ROOF DRAIN PIPES MUST BE SUPPORTED NO FURTHER THAN 3" FROM THE JOIST TOP CHORD PANEL POINTS. THIS WILL BE STRICTLY ENFORCED. WHEN PIPES ARE PERPENDICULAR TO JOISTS, HANGERS SHALL BE PROVIDED EVERY OTHER JOIST (APPROX 10'-0" OC). WHEN PIPES ARE PARALLEL TO JOISTS, TWO CASES EXIST. FIRST, PIPES THAT ARE 4" AND LESS MAY BE SUPPORTED BY A SINGLE JOIST WITH HANGERS NOT TO EXCEED 10'-0" OC. SECOND, PIPES THAT ARE LARGER THAN 4" MUST BE CENTERED BETWEEN TWO JOISTS AND SUPPORTED FROM L4x4x5/16 ANGLE BEARING ON JOIST TOP CHORD PANEL POINTS WITH SPACING NOT TO EXCEED 10'-0" OC. GENERAL CONTRACTOR SHALL COORDINATE THESE REQUIREMENTS WITH THE APPROPRIATE TRADES.

SJ12 ALL ITEMS SUSPENDED FROM JOISTS (i.e. CATWALKS, BALCONIES, OPERABLE PARTITIONS, etc...) SHALL BE INSTALLED AFTER DEAD LOAD HAS BEEN APPLIED.

JOIST BRIDGING NOTES:

JB1 BRIDGING STANDARD WITH THE MANUFACTURER AND COMPLYING WITH THE STEEL JOIST INSTITUTE STANDARD SPECIFICATIONS LOAD TABLES AND WEIGHT TABLES OF THE LATEST ADOPTION SHALL BE USED FOR BRIDGING ALL JOISTS FURNISHED BY THE MANUFACTURER. POSITIVE ANCHORAGE SHALL BE PROVIDED AT THE ENDS OF EACH BRIDGING ROW AT BOTH TOP AND BOTTOM CHORDS. SEE SHEET S1.01 FOR SAMPLE OF BRIDGING REQUIREMENTS AS PUBLISHED IN THE VULCRAFT 2017 MANUAL.

JB2 FOR "K" AND "LH" SERIES JOISTS HORIZONTAL BRIDGING IS RECOMMENDED FOR SPANS UP TO AND INCLUDING 60 FEET EXCEPT WHERE THE STEEL JOIST INSTITUTE STANDARD SPEC LOAD TABLES & WEIGHT TABLES REQUIRE BOLTED DIAGONAL BRIDGING FOR ERECTION STABILITY.

JB3 "LH" AND "DLH" SERIES JOISTS EXCEEDING 60 FEET IN LENGTH SHALL HAVE BOLTED DIAGONAL BRIDGING FOR ALL ROWS.

JB4 REFER TO SJI SECTION 6 IN THE "K" SERIES SPECIFICATIONS AND SECITON 105 IN THE "LH" AND "DLH" SERIES SPECIFICATIONS FOR ERECTION STABILITY REQUIREMENTS.

JB5 REFER TO APPENDIX E FOR OSHA STEEL JOIST ERECITON STABILITY REQUIREMENTS.

JB6 HORIZONTAL BRIDGING SHALL CONSISTS OF CONTINUOUS HORIZONTAL STEEL MEMBERS. THE l/r RATIO FOR HORIZONTAL BRIDGING SHALL NOT EXCEED 300.

JB7 DIAGONAL CROSS BRIDGING CONSISTING OF ANGLES OR OTHER SHAPES CONNECTED TO THE TOP AND BOTTOM CHORDS, OF "K", "LH" AND "DLH" SERIES JOISTS SHALL BE USED WHEN REQUIRED BY THE APPLICABLE STEEL JOIST INSTITUTE STANDARD SPECIFICATIONS LOAD TABLES AND WEIGHT TABLES OF LATEST ADOPTION.

JB8 DIAGONAL BRIDGING, WHEN USED, SHALL HAVE AN l/r RATIO < 200.

JB9 WHEN BOLTED DIAGONAL ERECTION BRIDGING IS REQUIRED, THE FOLLOWING SHALL APPLY:
A. THE BRIDGING SHALL BE INDICATED ON THE JOIST LAYOUT PLAN
B. THE JOIST LAYOUT PLAN SHALL BE THE EXCLUSIVE INDICATOR FOR THE PROPER PLACEMENT OF THIS BRIDING.
C. SHOP INSTALLED BRIDGING CLIPS, OR FUNCTIONAL EQUIVALENT SHALL BE PROVIDED WHERE THE BRIDGING BOLTS TO THE STEEL JOISTS.
D. WHEN TWO PIECES OF BRIDGING ARE ATTACHED TO THE STEEL JOIST BY A COMMON BOLT, THE NUT THAT SECURES THE FIRST PIECE OF BRIDGING SHALL NOT BE REMOVED FROM THE BOLT FOR THE ATTACHMENT OF THE SECOND PIECE.
E. BRIDING ATTACHMENTS SHALL NOT PROTRUDE ABOVE THE TOP CHORD OF THE STEEL JOISTS.

JB10 PROVIDE UPLIFT BRIDGING AT FIRST BOTTOM CHORD PANEL POINT EACH END OF JOIST. REFER TO SECTION A/S1.00 FOR UPLIFT BRIDGING CONNECITON DETAILS.

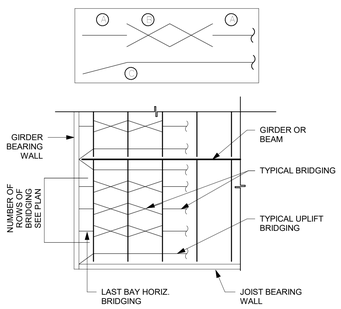
JB11 DO NOT WELD BRIDGING TO JOIST WEB MEMBERS. DO NOT HANG ANY MECHANICAL, ELECTRICAL, PLUMBING, ETC. FROM BRIDGING.

JB12 BRIDGING LEGEND FOR PLAN BELOW:

Ⓐ HORIZONTAL BRIDGING ATTACHED TO TOP & BOTTOM CHORD

Ⓑ BOLTED OR WELDED CROSS BRIDGING AS SHOWN

Ⓒ SINGLE LINE HORIZONTAL UPLIFT BRIDGING



MASONRY

M1 MASONRY CONSTRUCTION SHALL CONFORM TO ACI STANDARD BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES TMS 402-16 AND SPECIFICATIONS FOR MASONRY STRUCTURES TMS 602-16

M2 CONCRETE BLOCKS SHALL CONFORM TO ASTM C-90.
f'm = 2000 PSI

M3 MORTAR SHALL COMPLY WITH ASTM C270, TYPE M OR S. (COMPRESSIVE STRENGTH = 2500 PSI AND 1800 PSI, RESPECTIVELY. SITE TESTED MORTAR CUBES SHALL ACHIEVE A MINIMUM OF 80% OF THE DESIGN COMPRESSIVE STRENGTH)

M4 BLOCK SHALL NOT BE MOISTENED BEFORE GROUTING.

M5 ALL MASONRY CROSS WEBS SHALL BE FULLY BEDDED IN MORTAR AROUND CELLS TO BE GROUTED.

M6 THE MINIMUM CONTINUOUS UNOBSTRUCTED CELL AREA IN CELL TO RECEIVE GROUT MUST BE NOT LESS THAN 2"x3". MORTAR FINS MUST BE REMOVED AS BLOCK PLACEMENT PROCEEDS. MORTAR DROPPINGS MUST BE KEPT OUT OF CELLS WHICH ARE TO BE GROUTED.

M7 REINFORCE WALLS WITH LADDER TYPE (ASTM A-82, #9 GAGE WIRE) REINFORCEMENT EQUAL TO DURO-WALL IN BED JOINTS AT 16" OC UNO, MEASURED VERTICALLY PLACE PER MFR INSTR. LAP ALL HORIZONTAL JOINT REINFORCING 8", MIN.
EXTEND HORIZONTAL REINFORCEMENT 4" INTO CONCRETE COLUMNS OR TIE COLUMNS.

M8 WHERE SHOWN, CELLS OF BLOCK MASONRY SHALL BE FILLED WITH GROUT WITH MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, AND MEET ASTM C476. GROUT SHALL BE PROVIDED BY CONCRETE SUPPLIER FROM THEIR BATCH PLANT WITH A SLUMP OF 8" TO 10". JOB SITE MIXING OF GROUT SHALL NOT BE PERMITTED. TESTING SHALL CONFORM TO ASTM C1019.

M9 GROUT FOR FILLED CELLS SHALL BE POURED OR PUMPED IN LIFTS NOT TO EXCEED FOUR (4) FEET IN HEIGHT, AND A MAX POUR OF 12 FT. FILLED CELLS SHALL BE CONSOLIDATED AT TIME OF POURING BY RODDING OR VIBRATING BETWEEN LIFTS.

M10 PROVIDE KNOCK-OUT CMU AT BASE OF EACH FILLED CELL TO ALLOW VISUAL VERIFICATION OF COMPLETE GROUT PENETRATION (FOR LIFTS OF 5'-0" OR LESS, A KNOCK-OUT AT BASE OF LIFT WILL NOT BE REQUIRED).

M11 VERTICAL REINFORCING MUST HAVE A MINIMUM CLEARANCE OF 1/2" TO INSIDE FACE. MIN VERTICAL BAR LAP = 40 x BAR DIAMETER. VERTICAL REINFORCEMENT IN WALLS SHALL BE SECURED AND LATERALLY SUPPORTED AGAINST DISPLACEMENT AT INTERVALS NOT EXCEEDING 192 x BAR DIAMETER NOR 10 FT.

M12 GROUT PLACEMENT STOPPED FOR (1) HOUR OR MORE SHOULD BE STOPPED (1 1/2") BELOW THE TOP OF THE MASONRY UNIT TO PROVIDE A KEY FOR SUBSEQUENT GROUTING.

M13 SEE SHEET S2.0 FOR WALL VERT. REINFORCING. TYP VERTICAL REINFORCING SIZE & SPACING SHALL BE ABOVE AND BELOW ALL WALL OPENINGS.

M14 TEMPORARY BRACING AND SHORING OF WALLS TO PROVIDE STABILITY DURING CONSTRUCTION TO BE THE RESPONSIBILITY OF THE CONTRACTOR.

M15 MASONRY CONSTRUCTION MATERIALS AND INSPECTIONS SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATIONS FOR MASONRY STRUCTURES (ACI-ASCE 530.1)" EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE DOCUMENTS.

M16 STOPPING AND RESUMING WORK: RACK BACK 1/2-UNIT LENGTH IN EACH COURSE. DO NOT TOOTH. CLEAN EXPOSED SURFACES OF SET MASONRY WET UNITS LIGHTLY (IF REQ'D) AND REMOVE LOOSE MAS UNITS AND MORTAR PRIOR TO LAYING FRESH MASONRY.

M17 REINFORCE MASONRY OPENINGS GREATER THAN 1'-0" WIDE, WITH HORIZ JT REINF PLACED IN (2) HORIZ JT'S APPROXIMATELY 8" APART, IMMEDIATELY ABOVE THE LINTEL AND IMMEDIATELY BELOW THE SILL. EXTEND REINFORCING A MINIMUM OF 2'-0" BEYOND JAMBS OF THE OPENING EXCEPT AT CONTROL JOINTS. SEE PLAN FOR ADDITIONAL REQUIREMENTS.

M18 DO NOT APPLY UNIFORM LOADS TO MASONRY WALLS FOR (3) DAYS.

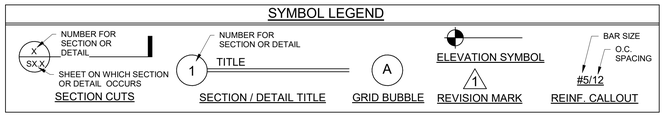
M19 DO NOT APPLY CONCENTRATED LOADS TO MASONRY WALLS FOR (7) DAYS.

M20 EXTEND ALL VERTICAL WALL REINFORCEMENT TO WITHIN 2" OF TOP OF WALL OR BEAM UNLESS NOTED OTHERWISE. TERMINATE REINFORCING WITH STANDARD ACI HOOK.

STRUCTURAL ABBREVIATIONS

AB	ANCHOR BOLT	EJ	EXPANSION JOINT	OPP	OPPOSITE
ABV	ABOVE	ENG	ENGINEER	PAF	POWDER ACTUATED FASTENERS
A.C.I.	AMERICAN CONCRETE INSTITUTE	EL	ELEVATION	PERP	PERPENDICULAR
ADD'L	ADDITIONAL	EQ	EQUAL	PC	PRECAST
AFF	ABOVE FINISH FLOOR	EQ SP	EQUAL SPACE(S) (ING)	PL	PLATE
AGGR	AGGREGATE	ES	EACH SIDE	PLYWD	PLYWOOD
A.I.S.C.	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	EW	EACH WAY	PNL	PANEL
		EXT	EXTERIOR	PSF	POUNDS PER SQUARE FOOT
A.I.S.I.	AMERICAN IRON AND STEEL INSTITUTE	F/	FACE OF	PSI	POUNDS PER SQUARE INCH
AL	ALUMINUM	FD	FLOOR DRAIN	PTN	PARTITION
ALT	ALTERNATE	FDN	FOUNDATION	R	RADIUS
ARCH	ARCHITECT(URAL)	FIN	FINISH	REF	REFERENCE
A.S.T.M.	AMERICAN SOCIETY OF TESTING MATERIALS	FL	FLOOR	REINF	REINFORCE(D) (ING)
A.W.S.	AMERICAN WELDING SOCIETY	FLG	FLANGE	REQ	REQUIRE
		FS	FAR SIDE	REQ'D	REQUIRED
B/	BOTTOM OF	FT	FOOT	RF	ROOF
BB	BOND BEAM	FTG	FOOTING	RTN	RETURN
BLDG	BUILDING	GA	GAGE, GAUGE	RW	RETAINING WALL
BLW	BELOW	GALV	GALVANIZE	SCH	SCHEDULE
BM	BEAM	GB	GRADE BEAM	SE	SLAB EDGE
BOT	BOTTOM	GC	GENERAL CONTRACTOR	SECT	SECTION
BP	BASE PLATE	GLB	GLU-LAM BEAM	SHT	SHEET
BRDG	BRIDGING	GR	GRADE	SIM	SIMILAR
BRG	BEARING	HC	HOLLOW CORE	SJ	SAWCUT JOINT
BRK	BRICK	HK	HOOK	SJI	STEEL JOIST INSTITUTE
BS	BOTH SIDES	HORIZ	HORIZONTAL	SL	SLOPE
BTJ	BOLTED TIE JOIST	HP	HIGH POINT	SP	SPACE(S)
BTWN	BETWEEN	HS	HEADED STUD	SPECS	SPECIFICATIONS
C/C	CENTER TO CENTER	ID	INSIDE DIAMETER	SQ	SQUARE
CANT	CANTILEVER	IF	INSIDE FACE	SS	STAINLESS STEEL
CB	CONCRETE BEAM	INT	INTERIOR	STD	STANDARD
CC	CONCRETE COL	JST	JOIST	STL	STEEL
CIP	CAST IN PLACE	K	KIP	STR	STRENGTH
CJ	CONSTRUCTION JOINT OR CONTROL JOINT	KO	KNOCK OUT	STRL	STRUCTURAL
		LG	LONG	SW	SHEAR WALL
CL	CENTERLINE	LL	LIVE LOAD	SYMM	SYMMETRICAL
CLR	CLEAR(ANCE)	LLH	LONG LEG HORIZONTAL	SYP	SOUTHERN YELLOW PINE
CM	CONCRETE MASONRY	LLV	LONG LEG VERTICAL	TB	TIE BEAM
CMU	CONCRETE MASONRY UNIT	LNTL	LINTEL	T&B	TOP & BOTTOM
COL	COLUMN	LSL	LONG SLOTTED HOLES	TC	TIE COLUMN
CONC	CONCRETE	LONG	LONGITUDINAL	TDS	TURN DOWN SLAB
CONN	CONNECTION	LP	LOW POINT	TEMP	TEMPERATURE
CONT	CONTINUOUS	MAS	MASONRY	THK	THICK
CONTR	CONTRACTOR	MAX	MAXIMUM	THNS	THICKEN SLAB
CSK	COUNTER SINK	MBM	METAL BUILDING MFR	TOPG	TOPPING
CTR	CENTER	MC	MOMENT CONNECTION	TYP	TYPICAL
CTRD	CENTERED	MCJ	MASONRY CONTROL JT	T/	TOP OF
DIA	DIAMETER	MECH	MECHANICAL	UNO	UNLESS NOTED OTHERWISE
DL	DEAD LOAD	MEZZ	MEZZANINE	VERT	VERTICAL
DN	DOWN	MFR	MANUFACTURER(ER)	WF	WALL FOOTING
DTL	DETAIL	MIN	MINIMUM	WO	WINDOW OPENING (MASONRY)
DWG	DRAWING	MO	MASONRY OPENING	WP	WORKING POINT
DWL	DOWEL	MS	METAL STUD	WS	WATERSTOP
EA	EACH	MTL	METAL	WWF	WELDED WIRE FABRIC
EE	EACH END	NS	NEAR SIDE	W/	WITH
EF	EACH FACE	NTS	NOT TO SCALE		
		OA	OVERALL		
		OC	ON CENTER		
		OD	OUTSIDE DIA.		
		OF	OUTSIDE FACE		
		OPNG	OPENING		

SYMBOL LEGEND



WALL WIND PRESSURES - SERVICE

OPENING AREA	POSITIVE WIND PRESSURE	NEGATIVE ZONE 4 PRESSURE	NEGATIVE ZONE 5 PRESSURE
10 SF	66.6 PSF	-72.1 PSF	-88.7 PSF
20 SF	63.6 PSF	-69.2 PSF	-82.8 PSF
35 SF	61.2 PSF	-66.8 PSF	-78.1 PSF
50 SF	59.7 PSF	-65.3 PSF	-75.1 PSF
75 SF	58.0 PSF	-63.5 PSF	-71.6 PSF
100 SF	56.8 PSF	-62.3 PSF	-69.2 PSF
150 SF	55.0 PSF	-60.6 PSF	-65.7 PSF
200 SF	53.8 PSF	-59.4 PSF	-63.3 PSF
350 SF	51.

STEEL COLUMN / BASE PLATE SCHEDULE

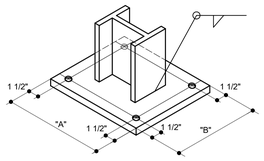
COLUMN SIZE	Base Plate A	Base Plate B	Base Plate T	Anchor Bolt E	Anchor Bolt D	Cap Plate	Remarks
HSS6X3X3/8							HSS-Hollow Structural Section-Column
6							
HSS6X6X1/2							HSS-Hollow Structural Section-Column
32							
HSS6X6X3/8							HSS-Hollow Structural Section-Column
4							
HSS7X7X1/4	13"	13"	3/4"	3/4"	12"		HSS-Hollow Structural Section-Column
1							
W10X54	16.25"	16.25"	1 1/4"	3/4"	8"		W-Wide Flange-Column
7							
W10X60	16.25"	16.25"	1 1/4"	3/4"	8"		W-Wide Flange-Column
2							
W10X68	16.5"	16.5"	1 1/2"	3/4"	8"		W-Wide Flange-Column
3							
Grand total: 55							

FOUNDATION SCHEDULE - PAD FOOTINGS

MARK	SIZE LENGTH	SIZE WIDTH	SIZE DEPTH	REINFORCING LONGITUDINAL	REINFORCING TRANSVERSE
F1	11' - 8"	10' - 8"	1' - 3"	#5/12 T&B	#5/12 T&B
F2	9' - 6"	4' - 0"	1' - 3"	(5) #5 BOTT.	(11) #5 BOTT.
F40	4' - 0"	4' - 0"	1' - 0"	(5) #5 BOTT.	(5) #5 BOTT.
F50	5' - 0"	5' - 0"	1' - 3"	(6) #5 BOTT.	(6) #5 BOTT.
F66	6' - 6"	6' - 6"	1' - 3"	(8) #5 BOTT.	(8) #5 BOTT.
F80	8' - 0"	8' - 0"	1' - 6"	(8) #6 BOTT.	(8) #6 BOTT.
F86	8' - 6"	8' - 6"	2' - 0"	(11) #6 T&B	(11) #6 T&B
F90	9' - 0"	9' - 0"	2' - 0"	(11) #6 BOTT.	(11) #6 BOTT.
F100	10' - 0"	10' - 0"	2' - 0"	(9) #7 BOTT.	(9) #7 BOTT.
F110	11' - 0"	11' - 0"	2' - 0"	(10) #7 BOTT.	(10) #7 BOTT.
F120	12' - 0"	12' - 0"	2' - 0"	(12) #7 BOTT.	(12) #7 BOTT.
Grand total: 20					

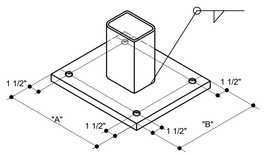
FOUNDATION SCHEDULE - WALL FOUNDATIONS

MARK	SIZE WIDTH	FND THICKNESS	REINFORCING LONGITUDINAL	REINFORCING TRANSVERSE
TS20	2' - 0"	1' - 0"	(3) #5 BOTTOM	#5 AT 16" O.C. BOTT.
WF20	2' - 0"	1' - 0"	(3) #5 BOTTOM	#5 AT 16" O.C. BOTT.
WF26	2' - 6"	1' - 0"	(3) #5 BOTTOM	#5 AT 16" O.C. BOTT.
WF30	3' - 0"	1' - 0"	(4) #5 BOTT.	#5 AT 14" O.C. BOTT.
WF40	4' - 0"	1' - 0"	(5) #5 BOTT.	#5 AT 12" O.C. BOTT.
WF46	4' - 6"	1' - 0"	(5) #5 BOTT.	#5 AT 12" O.C. BOTT.
WF50	5' - 0"	1' - 0"	(6) #5 BOTT.	#5 AT 12" O.C. BOTT.
WF70	7' - 0"	1' - 6"	(10) #5 T & B	#5 AT 10" O.C. T&B
Grand total: 74				



BASE PLATE DETAIL

NTS



BASE PLATE DETAIL

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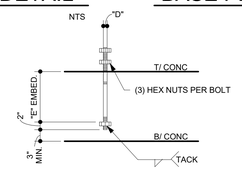


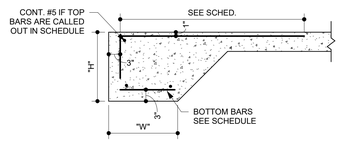
BOLTS TO BE F1554 GRADE 36 UNLESS NOTED OTHERWISE

ANCHOR BOLT DETAIL

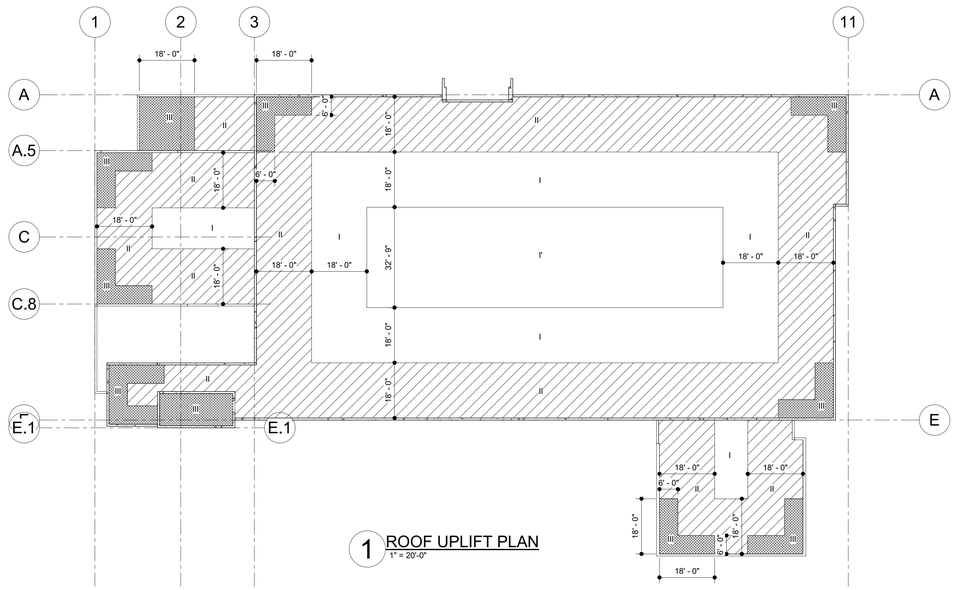
NTS

TURN DOWN SLAB SCHEDULE

MARK	SIZE OF TDS	BOTTOM REINFORCEMENT	TOP REINFORCEMENT
TDS10	CONT. x 12"W x 16"H	(2) #5 CONT. & #5 AT 18" TRANS	
TDS16	CONT. x 18"W x 24"H	(2) #5 CONT. & #5 AT 18" TRANS	#4 x 4'-0" + HOOK AT 18" O.C.



TURN DOWN SLAB DETAIL



1 ROOF UPLIFT PLAN
1" = 20'-0"

ROOF UPLIFT PLAN SERVICE

ZONE	BAR JOIST 125 TO 250 SF*	BAR JOISTS 251 TO 500 SF*	BAR JOISTS >500 SF*	JOIST GIRDERS	ROOFING
I'	-62.3 PSF	-49.0 PSF	-35.7 PSF	-35.7 PSF	-66.6 PSF
I	-88.0 PSF	-80.4 PSF	-72.7 PSF	-48.2 PSF	-116 PSF
II	-117 PSF	-107 PSF	-97.4 PSF	-58.9 PSF	-153 PSF
III	-117 PSF	-107 PSF	-97.4 PSF	-58.9 PSF	-153 PSF
IV					

* GROSS UPLIFT PRESSURE SHOWN. TA IS JOIST TRIBUTARY AREA WHICH IS THE GREATER OF SPAN * SPACING OR SPAN * SPAN / 3
LOADS PER ASCE 7-22 DESIGN PARAMETERS: 0.6h = 18'-0", 0.2h = 6'-0"
PRESSURES SHOWN ARE SERVICE LOAD PRESSURES = 0.6 * ULTIMATE

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CLIENT

CITY OF RIVIERA BEACH
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Riviera Beach, FL 33404

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REGISTRATION

MARK JOHNSON LICENSE NO. 51983 STATE OF FLORIDA PROFESSIONAL ENGINEER

DRAWING HISTORY

No.	DATE	DESCRIPTION
A	04/04/2025	100% Design Development
B	07/22/2025	50% COnstruction Documents
C	09/18/2025	90% Construction Documents
D	10/14/2025	90% Construction Documents / Permit Set

J2 ARCHITECTURE

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PROJECT STATUS

90% CDs / PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

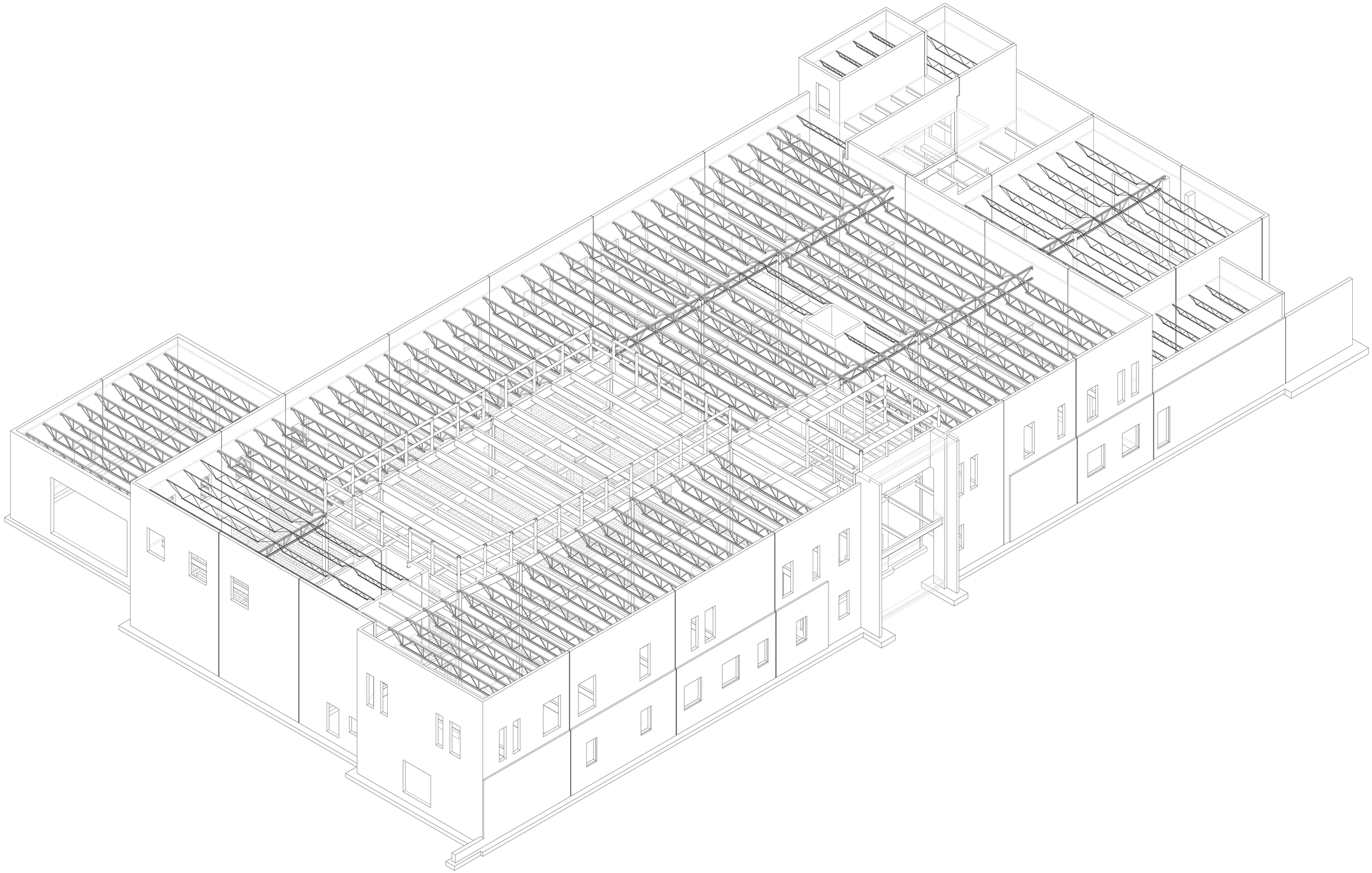
JSG #24115

SHEET TITLE

STRUCTURAL SCHEDULES

SHEET NUMBER

S1.1



1 BUILDING ISOMETRIC 1

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DATE OF ISSUE
10/14/2025

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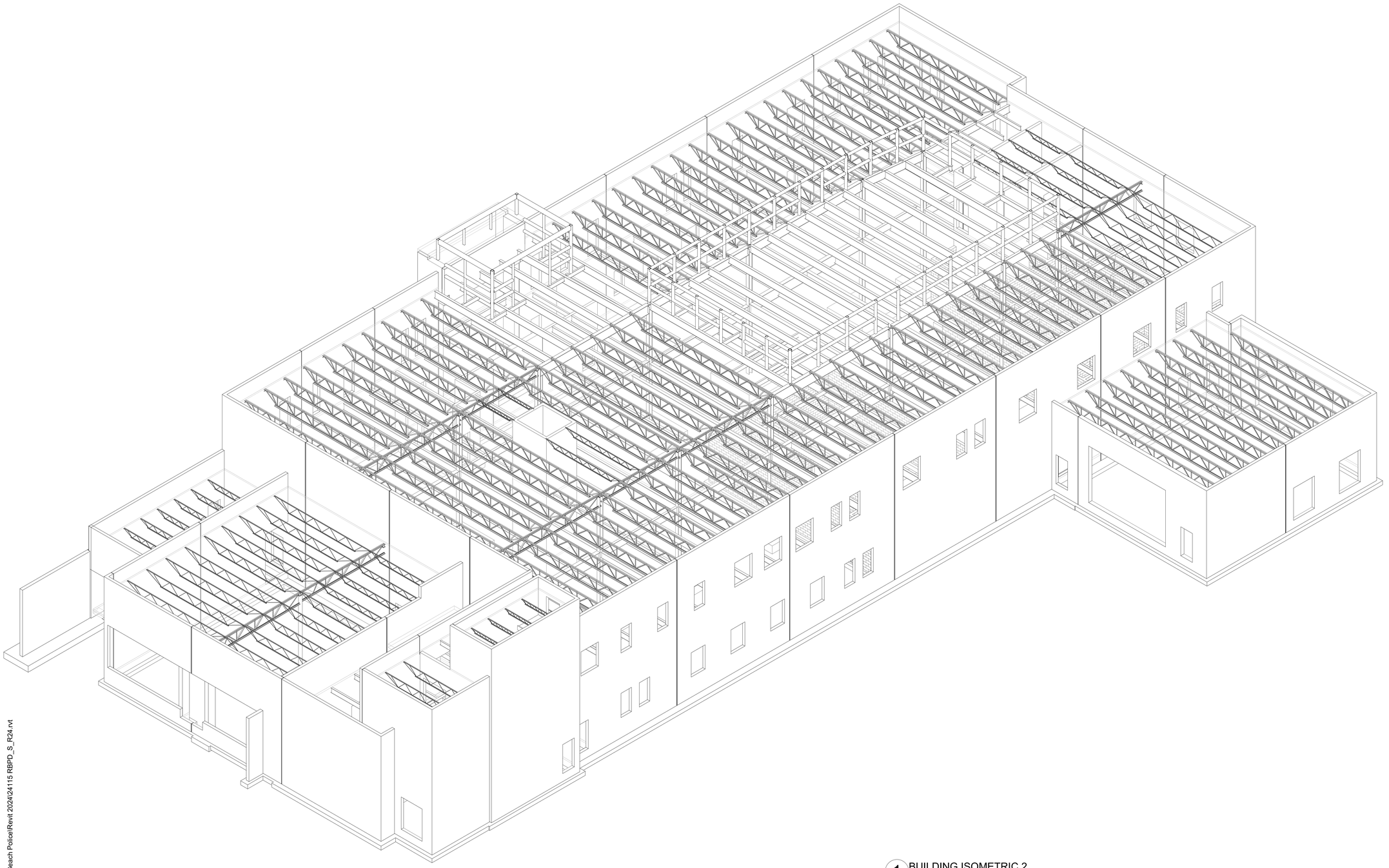
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
JSG #24115

SHEET TITLE
BUILDING ISOMETRICS

SHEET NUMBER
S1.2



1 BUILDING ISOMETRIC 2

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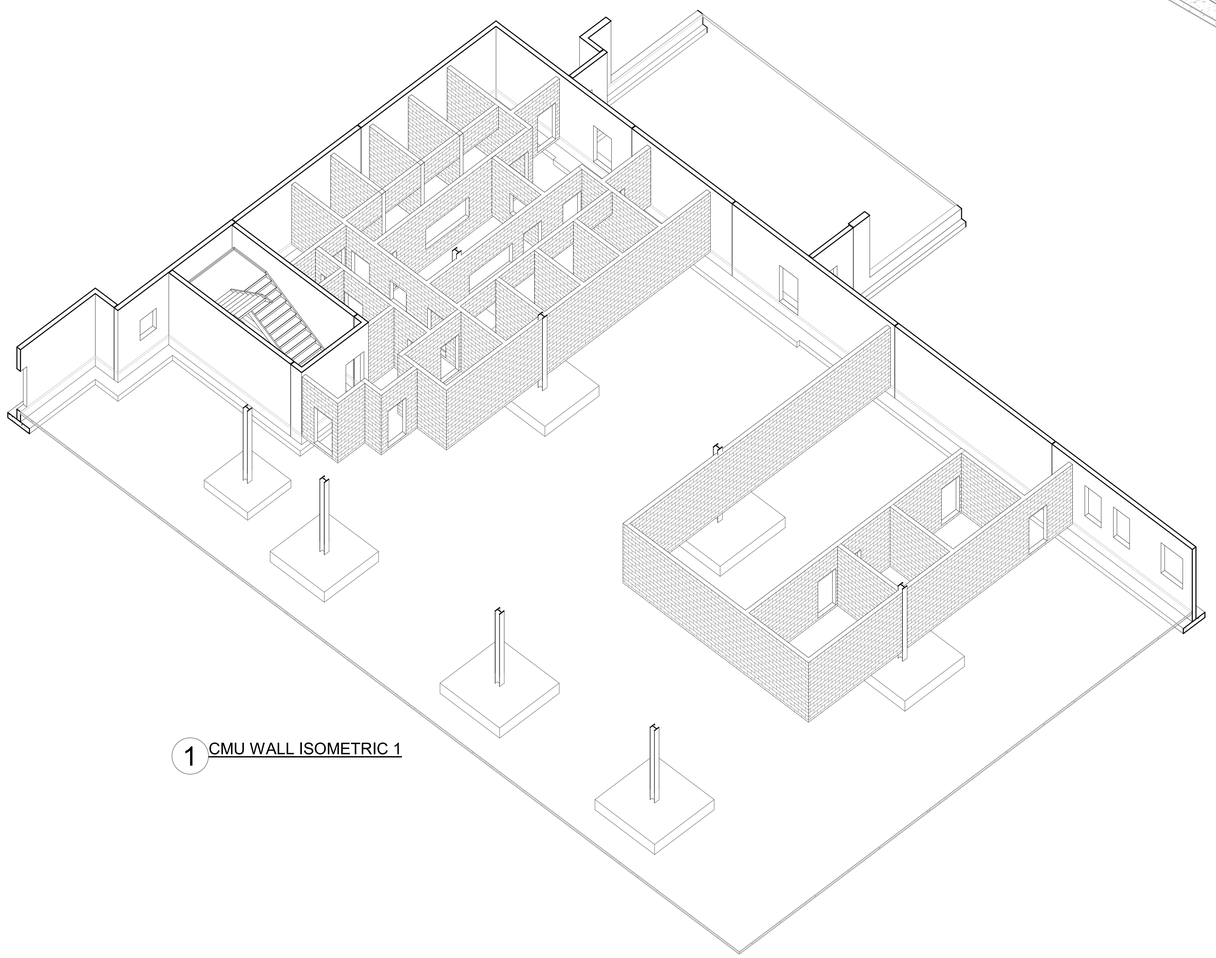
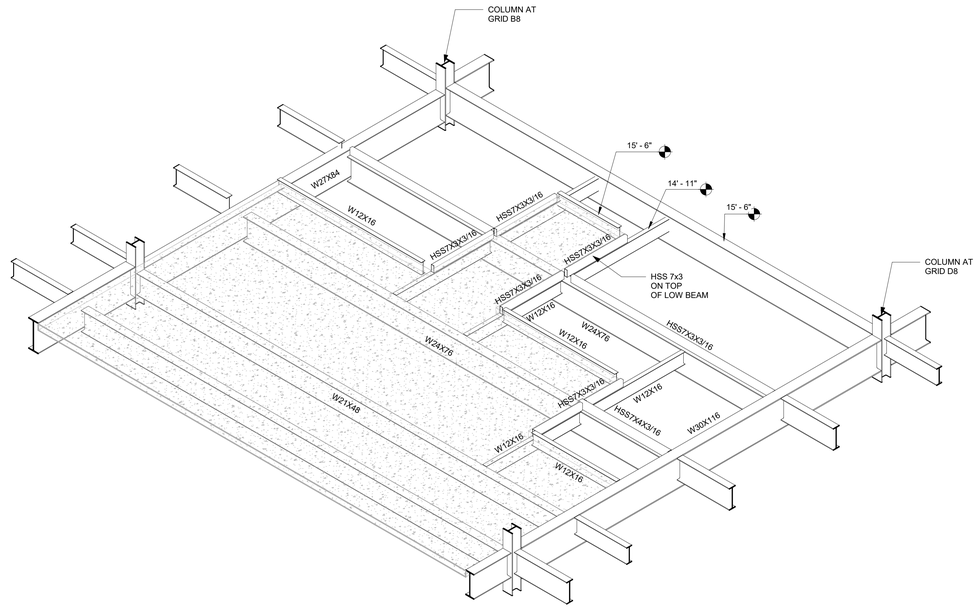
SHEET TITLE
BUILDING ISOMETRICS

SHEET NUMBER
S1.3





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PROJECT STATUS
90% CDs / PERMIT SET

DATE OF ISSUE
10/14/2025

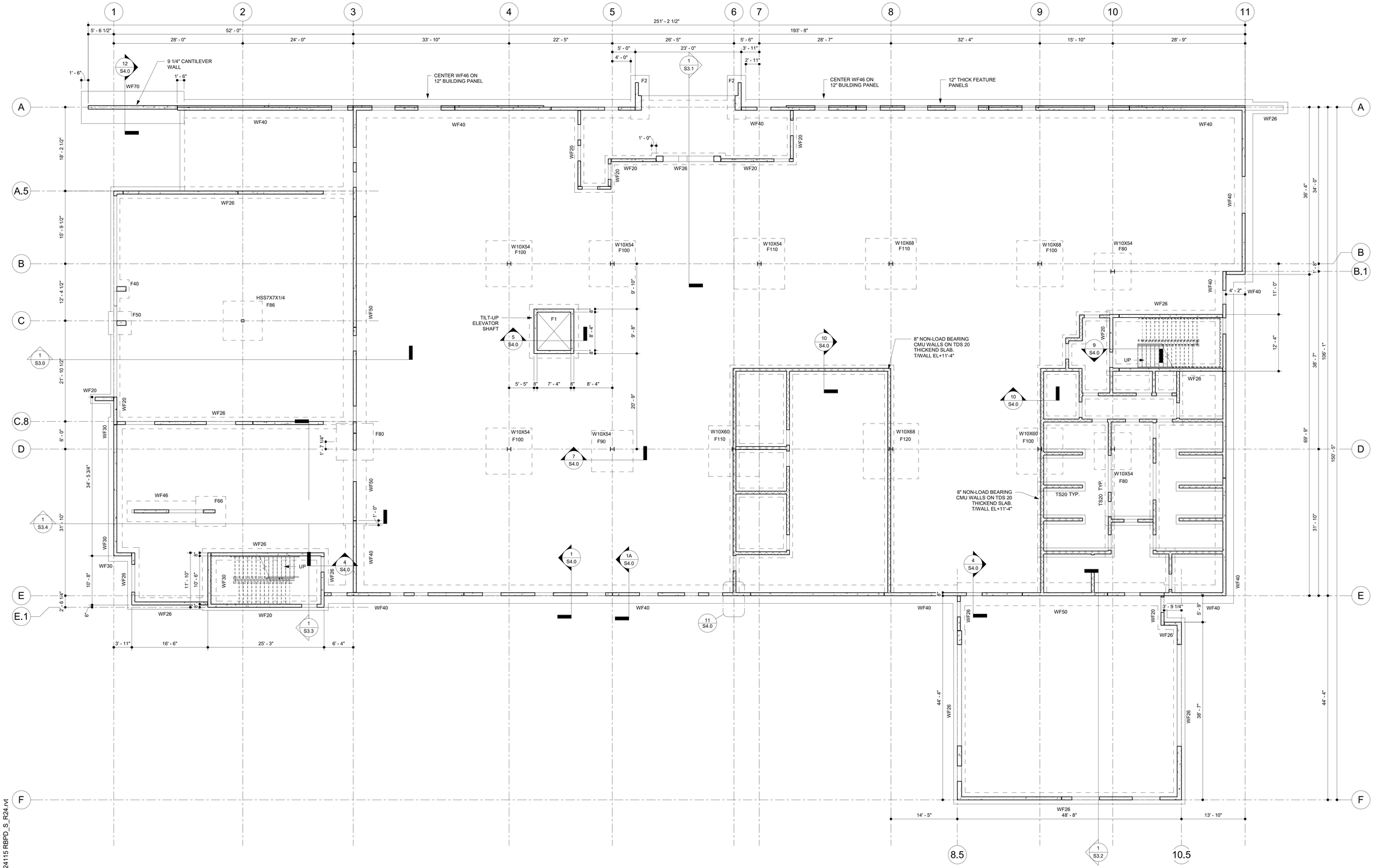
PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
JSG #24115

SHEET TITLE
MASONRY WALL AND DROP FLOOR ISOMETRICS

SHEET NUMBER
S1.4



1 FOUNDATION PLAN
1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. FLOOR SLAB TO BE 5" THICK CONCRETE REINFORCED WITH 6x6 W2.1xW2.1 WWF OVER 15 MIL VAPOR BARRIER ON COMPACTED TERMITE TREATED SUBGRADE. TYPICAL THROUGHOUT EXCEPT AT SALLYPORT.
2. SALLYPORT SLAB TO BE 6" THICK CONCRETE REINFORCED WITH 6x6 W2.9xW2.9 WWF OVER 15 MIL VAPOR BARRIER ON COMPACTED TERMITE TREATED SUBGRADE.
3. SEE SLAB ON GRADE DETAILS FOR PLACEMENT OF REINFORCEMENT AND JOINT DETAILS.
4. T/SLAB EL +0'-0" U.N.O. (REFERENCE ONLY). SEE CIVIL FOR ACTUAL ELEVATION.
5. T/WALL FOOTINGS TYPICAL EL -2'-0"
6. ALL EXTERIOR PANELS ALLOW FOR A 3/4" DEEP RECESS (i.e. THICKNESS = STRUCTURAL THICKNESS + 3/4" INCH) U.N.O. SEE PANEL REINFORCEMENT SHEETS FOR INDIVIDUAL PANEL THICKNESSES.
7. ALL TILT-UP PANELS ARE VIEWED FROM THE INSIDE OF THE BUILDING OR FROM THE NON-FINISHED FACE.
8. ALL FOOTINGS ARE CENTERED BENEATH BEARING WALLS AND COLUMNS.
9. SEE SHEET S5.0 FOR PANEL REINFORCING EMBEDDED ITEMS AND JOINT DETAILS.
10. SEE SHEET S1.1 FOR FOUNDATION AND STEEL COLUMN SCHEDULES
11. PROVIDE 6" HOUSEKEEPING PAD AT MECHANICAL EQUIPMENT REINFORCED WITH 6x6 W1.4xW1.4 WWF. HOUSEKEEPING PAD TO BE 6" WIDER THAN EQUIPMENT SUPPORTED. COORDINATE WITH MEP.
12. INTERIOR MASONRY WALLS ARE NON-LOAD BEARING AND RESIDE ON A TDS20 THICKENED SLAB. REINFORCE THE MASONRY WALLS WITH #5 IN FILLED CELLS AT ENDS, CORNERS, INTERSECTIONS, DOOR AND WINDOW JAMBS, AND AT 48" O.C. MAX.
13. PROVIDE 8"x8" BOND BEAM WITH (1) #7 AT TOP OF MASONRY WALLS AT EL+ 11'-4". PROVIDE CAST CRETE 8U8 PRECAST LINTEL OVER ALL OPENINGS. PROVIDE (1) #5 IN FILLED SILL UNDER WINDOW OPENINGS.

FILE NAME: C:\JSG\JSG C Drive\24115- Riviera Beach Police\Revit 2024\24115 RBPD_S_R24.rvt
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CLIENT

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DRAWING HISTORY

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J2 ARCHITECTURE

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2121 AVENUE S.
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PROJECT NUMBER
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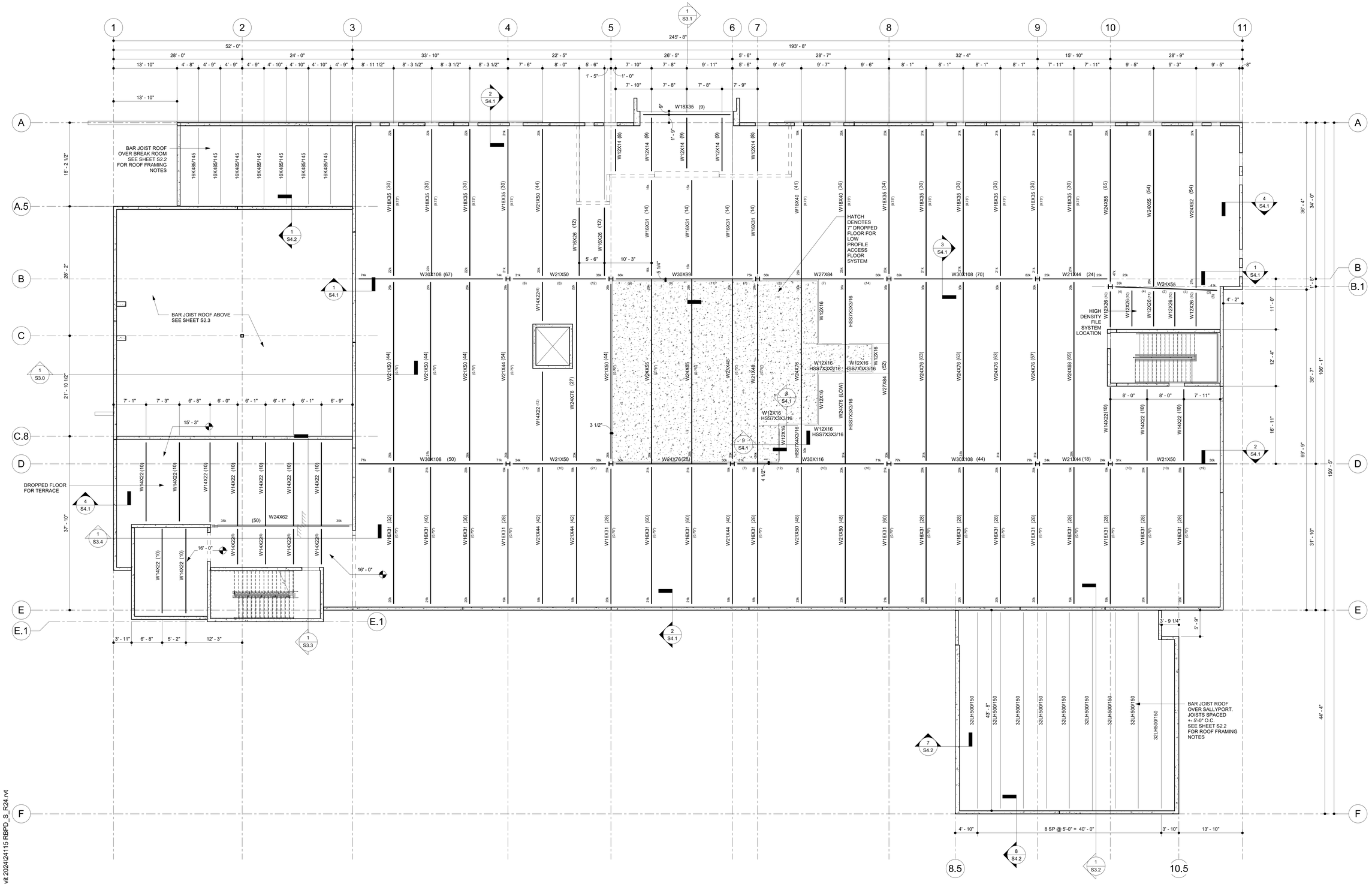
SHEET TITLE
FOUNDATION PLAN

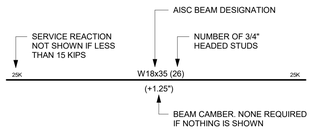
SHEET NUMBER
S2.0



2nd FLOOR DESIGN LOADS

LIVE LOAD OFFICE:	80 PSF
LIVE LOAD OUTDOOR TERRACE DEAD LOAD TERRACE	100 PSF 40 PSF
LIVE LOAD MECHANICAL AREAS	125 PSF
LIVE LOAD AT STAIRS: OR CONCENTRATED LOAD ON TREADS:	100 PSF 300 #
PERSONNEL/IA FILES	200 PSF
MISC. DEAD LOAD THROUGHOUT:	10 PSF
SYSTEM WEIGHT (3" CONCRETE & 3" DECK):	57 PSF

FLOOR LIVE LOAD REDUCTION PER FLORIDA BUILDING CODE SECTION 1607.10 WITH MAXIMUM 20% FOR GIRDERS AND 30% FOR COLUMNS AND FOOTINGS.



1 SECOND LEVEL
1/8" = 1'-0"

SECOND FLOOR FRAMING NOTES:

1. FLOOR SYSTEM SHALL BE 3" NORMAL WEIGHT CONCRETE ON 3", 20GA GALVANIZED G60 VULCRAFT VLI COMPOSITE METAL DECK. (6" TOTAL THICKNESS).
2. T/FINISHED FLOOR EL. = 16'-0"
3. T/BEAM = EL +15-6"
4. REINFORCE DECK WITH 6x6 W1.4xW1.4 WELDED WIRE FABRIC CHAIRED 1.5" BELOW TOP OF SLAB.
5. FLOOR IS DESIGNED AS AN UNSHORED COMPOSITE BEAM SYSTEM. ATTACH METAL DECK TO TOP FLANGE OF BEAMS USING HEADED STUDS IN ACCORDANCE WITH SDI 36/4 PATTERN WITH (4) #12 TEK SIDELAP SCREWS. PROVIDE 5/8" DIA PUDDLE WELDS AT 12" O.C. ALONG PERIMETER ANGLE.
6. ALL STEEL BEAMS TO BE A992, Fy = 50 KSI
7. PROVIDE (2) #5x4'-0" DIAGONAL CRACK BARS SPACED AT 6" O.C. AND CHAIRED 1" BELOW TOP OF SLAB AT ALL RE-ENTRANT CORNERS.
8. ALL REACTIONS ARE SHOWN AS SERVICE REACTIONS. IF BEAM REACTION IS NOT SHOWN ON PLAN, ASSUME A MINIMUM 12 KIP SERVICE REACTION
9. PROVIDE #4 BARS AT 18" O.C. TOP AT GIRDERS. ALTERNATELY STAGGER BARS 12" FROM THE GIRDER CENTERLINE. SEE PLAN FOR BAR LENGTHS.
10. PROVIDE 6" HOUSEKEEPING PAD AT MECHANICAL EQUIPMENT REINFORCED WITH 6x6 W1.4xW1.4 WWF. HOUSEKEEPING PAD TO BE 6" WIDER THAN EQUIPMENT SUPPORTED. COORDINATE WITH MEP.

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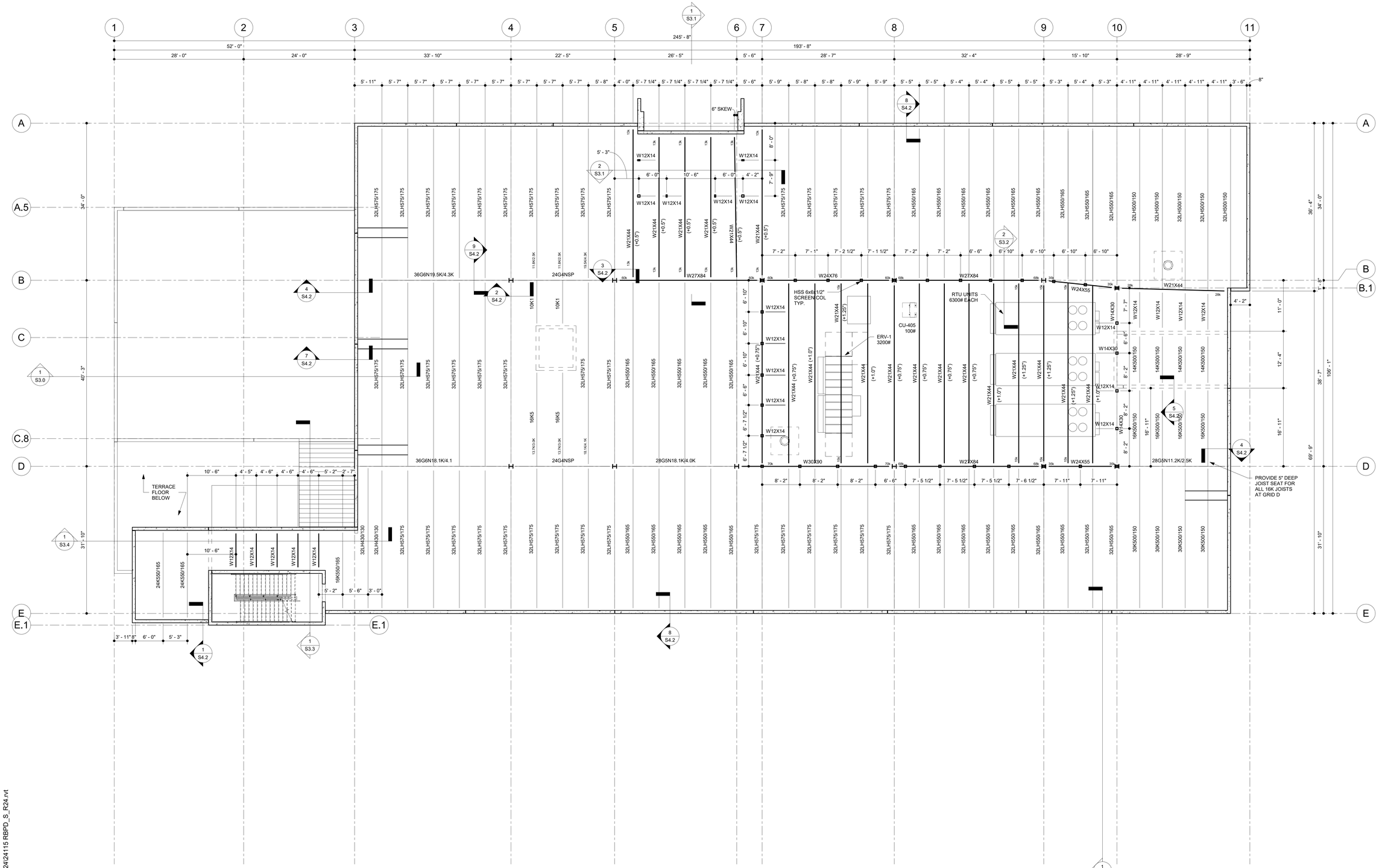
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
JSG #24115

SHEET TITLE
SECOND FLOOR PLAN

SHEET NUMBER
S2.1



1 ROOF LEVEL
1/8" = 1'-0"

ROOF DESIGN LOADS			
BAR JOIST LIVE LOAD	JOIST GIRDER LIVE LOAD	DESIGN DEAD LOAD	1" DECK + 3" CONC.
30 PSF	20 PSF	25 PSF	45 PSF

ROOF FRAMING NOTES:

1. ROOF SYSTEM TO BE 3" CONCRETE ON 1.0C-32 20 GAGE, GRADE 80 NON-COMPOSITE METAL DECK, 4" TOTAL THICKNESS, ON STEEL BEAMS AND JOISTS SPACED AS SHOWN ON PLAN . ATTACH METAL DECK TO ROOF MEMBERS WITH 5/8" PUDDLE WELDS 1 EVERY 3rd RIB. PROVIDE 5/8" PUDDLE WELDS AT 12" O.C.PARALLEL TO DECK SPAN AT EDGE SUPPORTS. USE #10 TEK SIDELAP SCREWS AT 24" O.C. MAX SPACING.
2. REINFORCE DECK WITH 6x6 10x10 WWF CHAIRED MID HEIGHT OF SLAB.
3. SEE PLAN FOR TOP OF PARAPET ELEVATIONS
4. SEE STRUCTURAL NOTE SHEET S1.0 FOR BRIDGING REQUIREMENTS FOR JOIST AND JOIST GIRDERS.
5. SEE SECTIONS FOR FRAMING DETAILS
6. SEE PLAN FOR JOIST BEARING ELEVATIONS
7. SEE SHEET S1.1 FOR ROOF UPLIFT PLAN.
8. ROOF SCREEN ALLOWABLE DESIGN PRESSURE = 138 PSF. ASSUMED 45% NET FREE AREA. STRUCTURE DESIGN BASED ON 62 PSF LATERAL LOAD.

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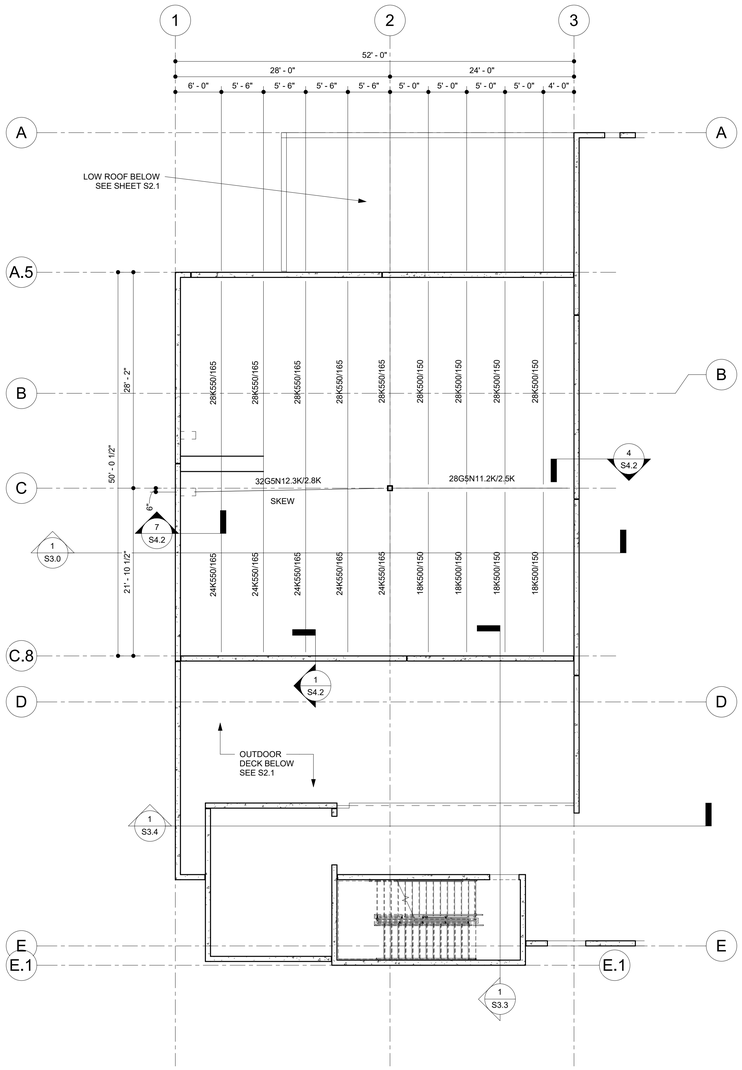
PROJECT NUMBER
JSG #24115

SHEET TITLE
ROOF FRAMING PLAN

SHEET NUMBER
S2.2

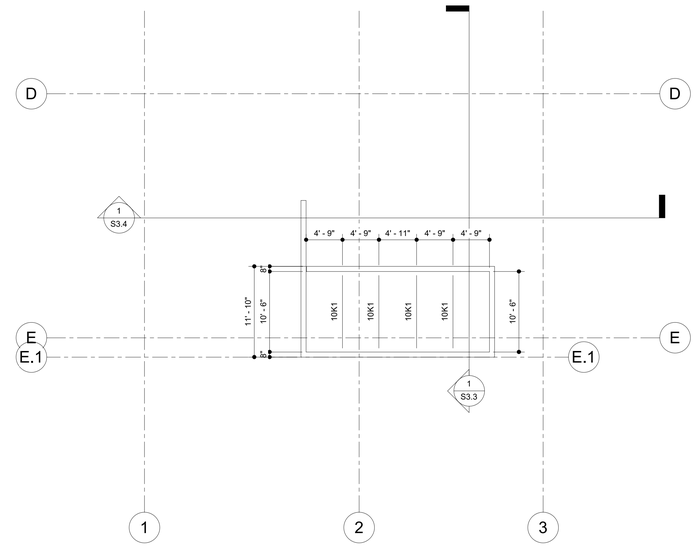


1 GYM ROOF FRAMING PLAN
1/8" = 1'-0"

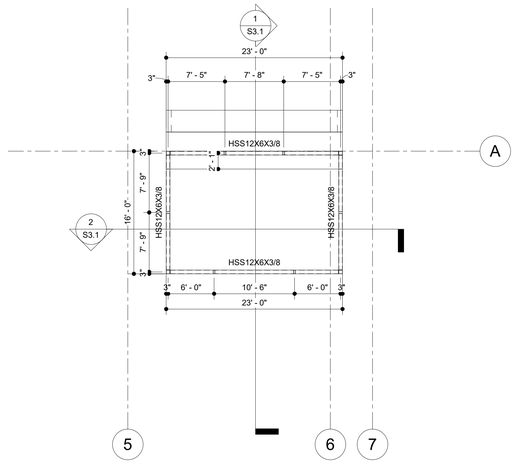
ROOF DESIGN LOADS		
DESIGN LIVE LOAD	DESIGN DEAD LOAD	1" DECK + 3" CONC.
30 PSF	25 PSF	45 PSF

ROOF FRAMING NOTES BREAK ROOM, GYM AND STAIR TOWER:

1. ROOF SYSTEM TO BE 3" CONCRETE ON 1.0C-32.20 GAGE, GRADE 80 NON-COMPOSITE METAL DECK, 4" TOTAL THICKNESS, ON STEEL BEAMS AND JOISTS SPACED AS SHOWN ON PLAN. ATTACH METAL DECK TO ROOF MEMBERS WITH 5/8" PUDDLE WELDS 1 EVERY 4th RIB. PROVIDE 5/8" PUDDLE WELDS AT 15" O.C.PARALLEL TO DECK SPAN AT EDGE SUPPORTS. USE #10 TEK SIDELAP SCREWS AT 24" O.C. MAX SPACING.
2. REINFORCE DECK WITH 6x6 10x10 WWF CHAIRED MID HEIGHT OF SLAB.
3. SEE PLAN FOR TOP OF PARAPET ELEVATIONS
4. SEE STRUCTURAL NOTE SHEET S1.0 FOR BRIDGING REQUIREMENTS FOR JOIST AND JOIST GIRDERS.
5. SEE SECTIONS FOR FRAMING DETAILS
6. SEE PLAN FOR JOIST BEARING ELEVATIONS
7. SEE SHEET S1.1 FOR ROOF UPLIFT PLAN.



2 T/STAIR TOWER
1/8" = 1'-0"



3 T/ENTRANCE TOWER
1/8" = 1'-0"

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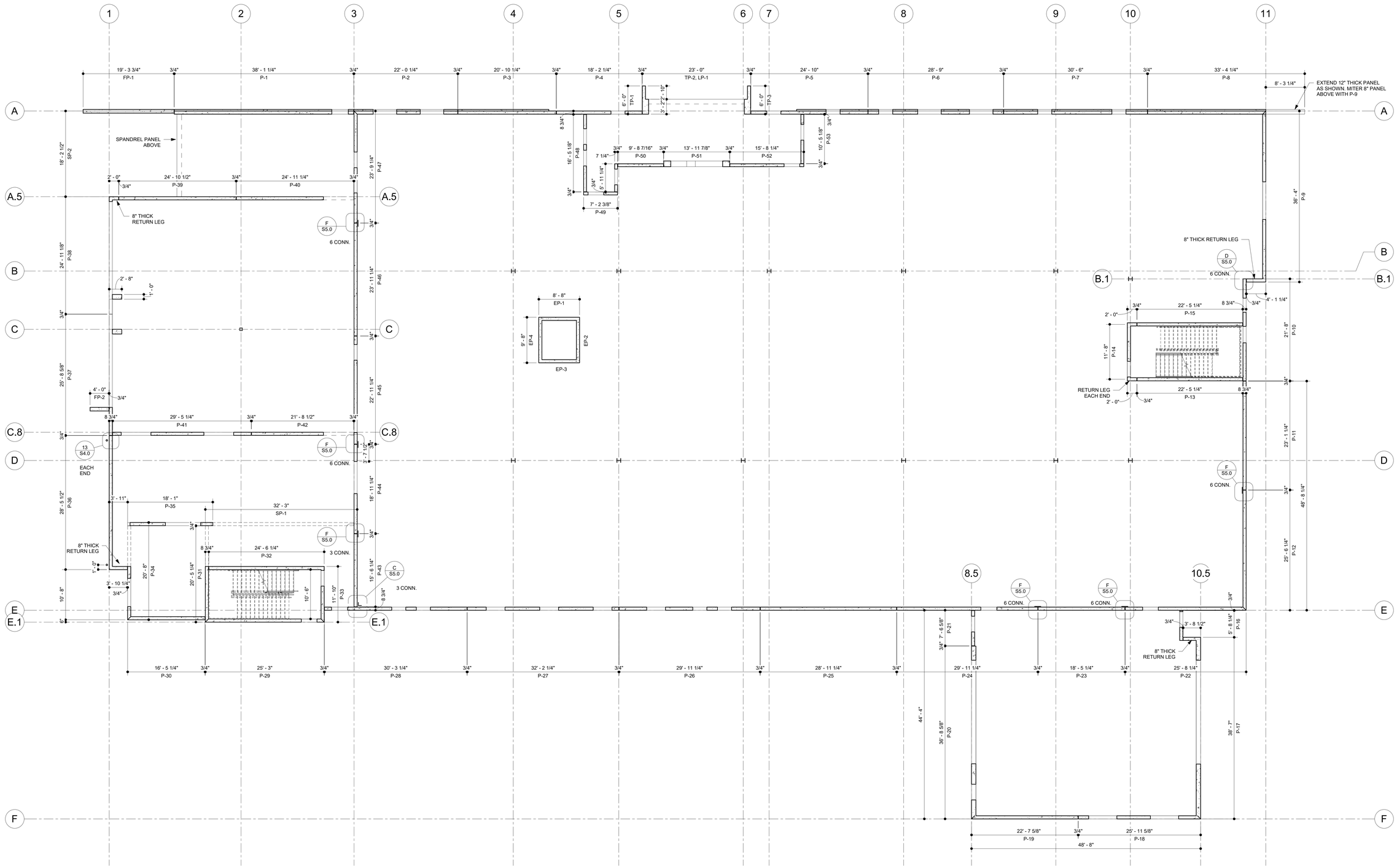
PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
JSG #24115

SHEET TITLE
GYM AND CUPOLA ROOF PLANS

SHEET NUMBER
S2.3



1 PANEL LAYOUT PLANS
1/8" = 1'-0"

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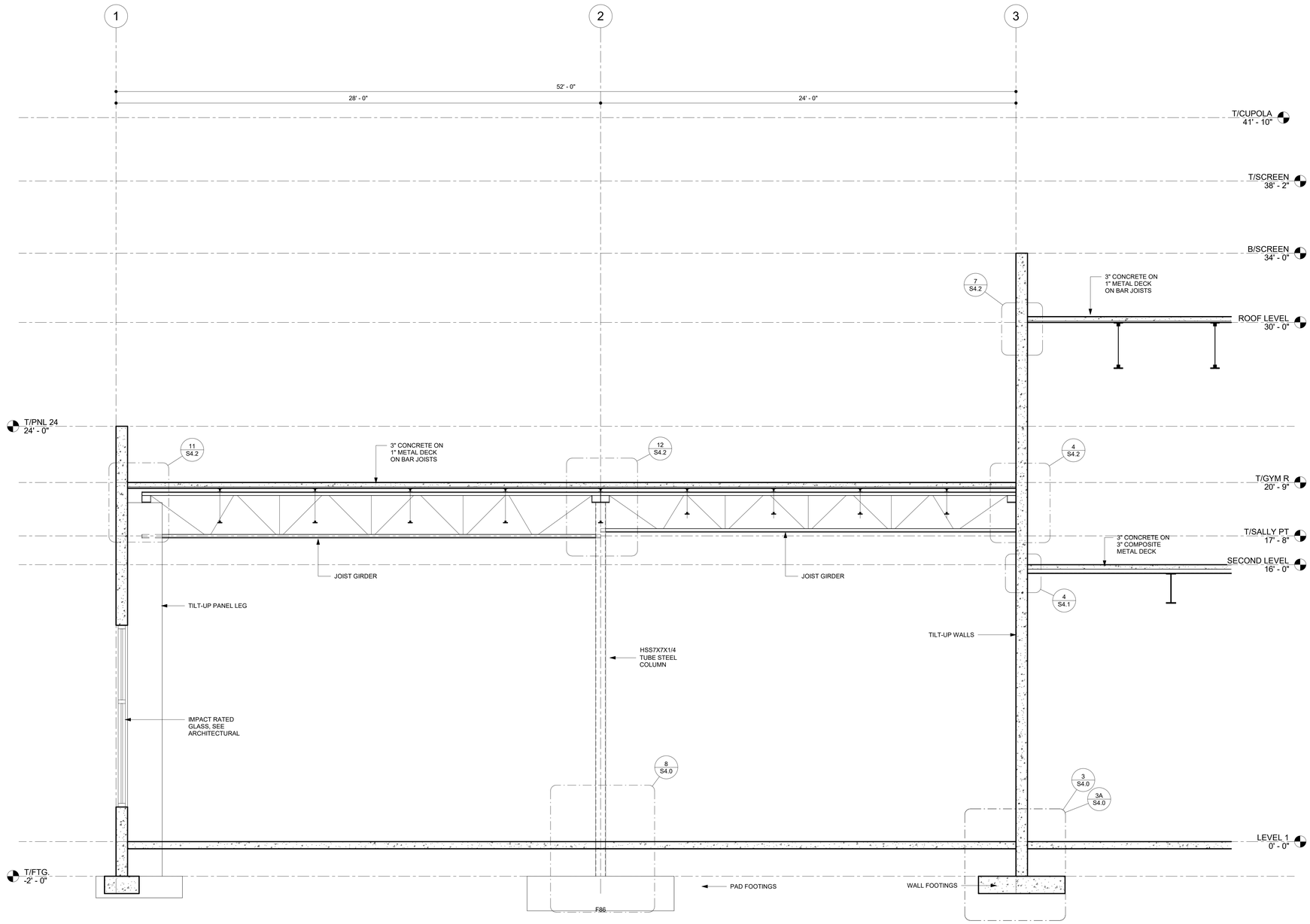
SHEET TITLE
PANEL LAYOUT PLAN

SHEET NUMBER
S2.4



1 BUILDING SECTION THROUGH GYM
3/8" = 1'-0"

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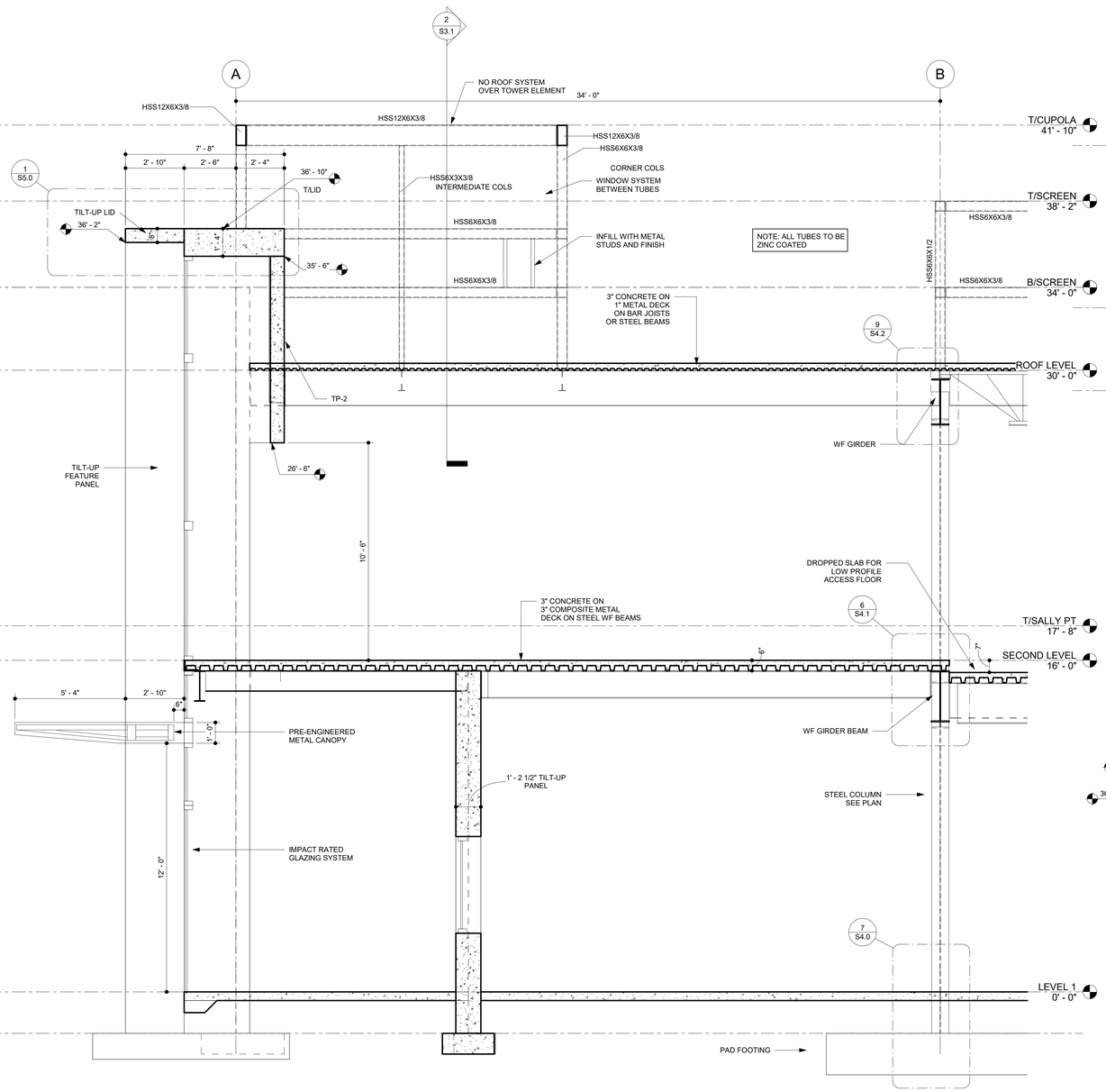
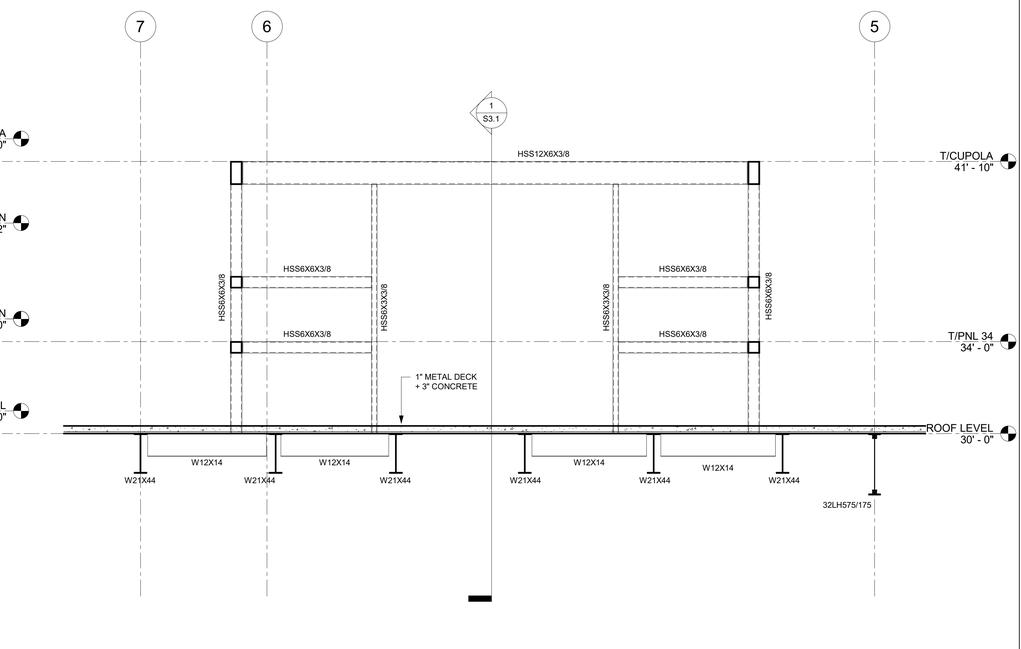
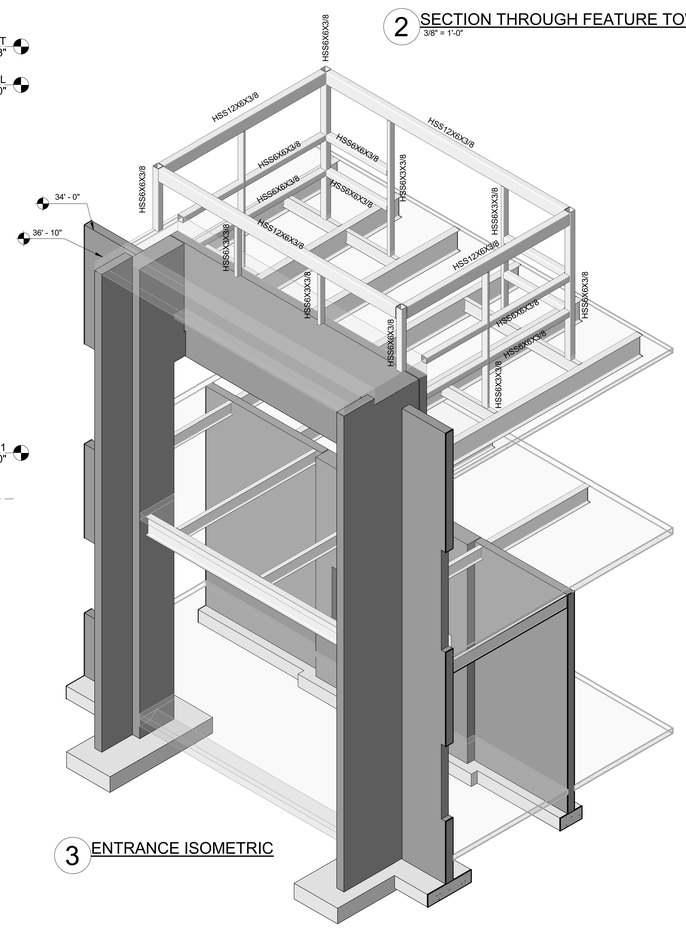
SHEET TITLE
BUILDING SECTIONS

SHEET NUMBER
S3.0



1 BUILDING SECTION THROUGH ENTRY
3/8" = 1'-0"





2 SECTION THROUGH FEATURE TOWER
3/8" = 1'-0"

3 ENTRANCE ISOMETRIC

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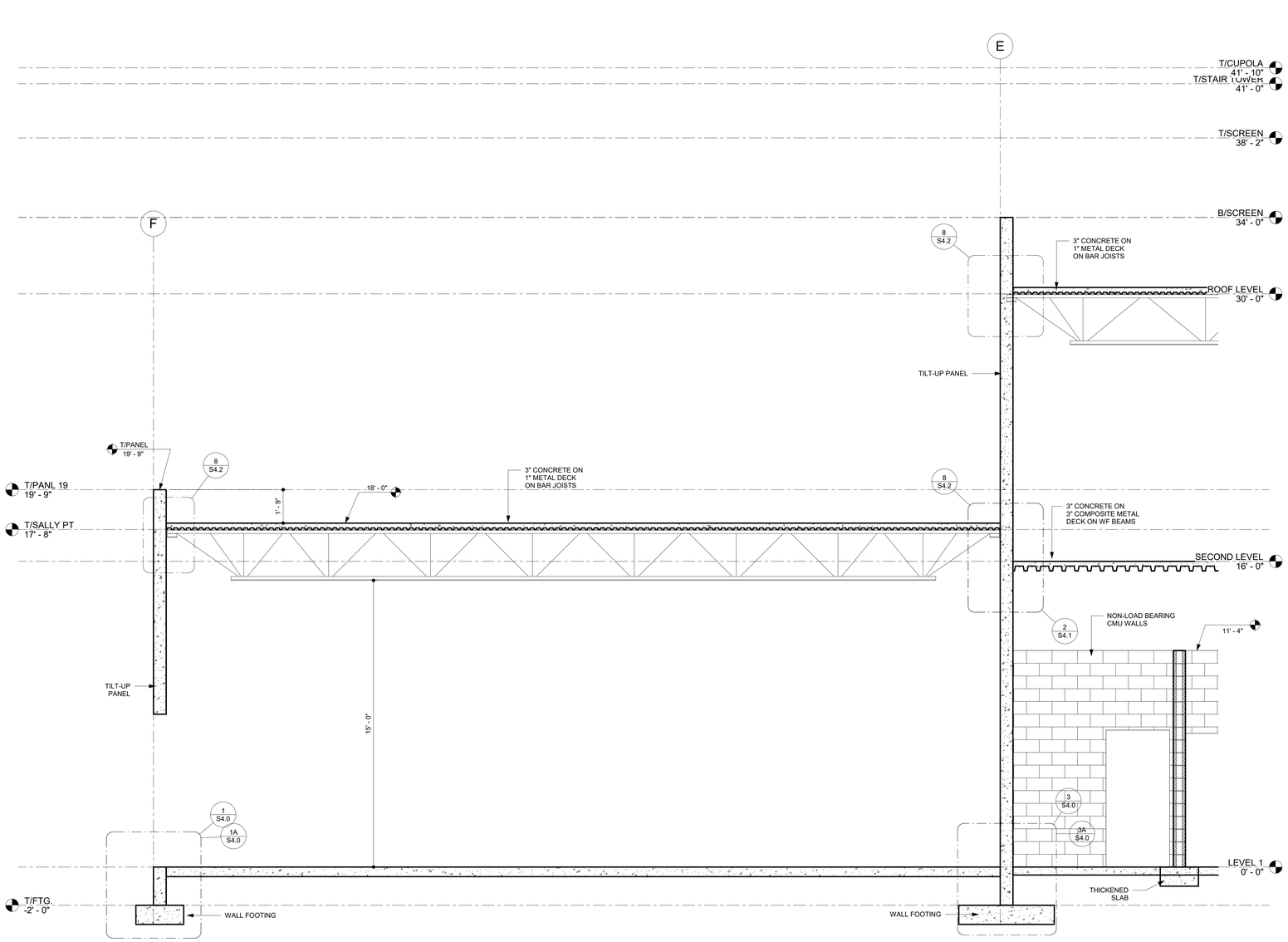
PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

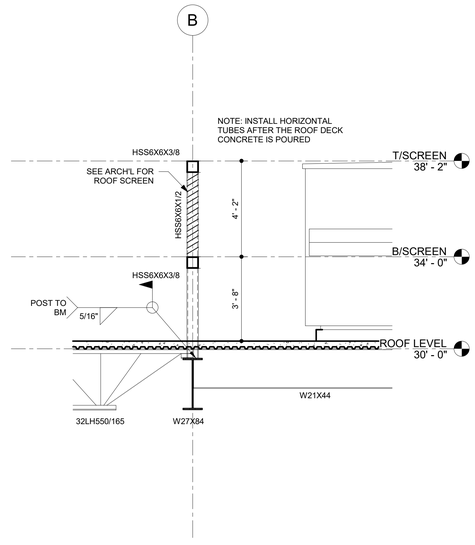
PROJECT NUMBER
JSG #24115

SHEET TITLE
BUILDING SECTIONS

SHEET NUMBER
S3.1



1 SECTION THROUGH SALLYPORT
3/8" = 1'-0"



2 SECTION AT MECHANICAL SCREEN
3/8" = 1'-0"

FILE NAME: C:\JSG\JSG C Drive\24115- Riviera Beach Police\Revit 2024\24115 RBPD_S_R24.rvt
DATE STAMP: 10/23/2025 3:10:49 PM

CLIENT

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REGISTRATION

MARK JOHNSON LICENSE NO. 51983 STATE OF FLORIDA PROFESSIONAL ENGINEER

DRAWING HISTORY

No.	DATE	DESCRIPTION
A	04/04/2025	100% Design Development
B	07/22/2025	50% CDnstruction Documents
C	09/18/2025	90% Construction Documents
D	10/14/2025	90% Construction Documents / Permit Set

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PROJECT STATUS
90% CDs / PERMIT SET

DATE OF ISSUE
10/14/2025

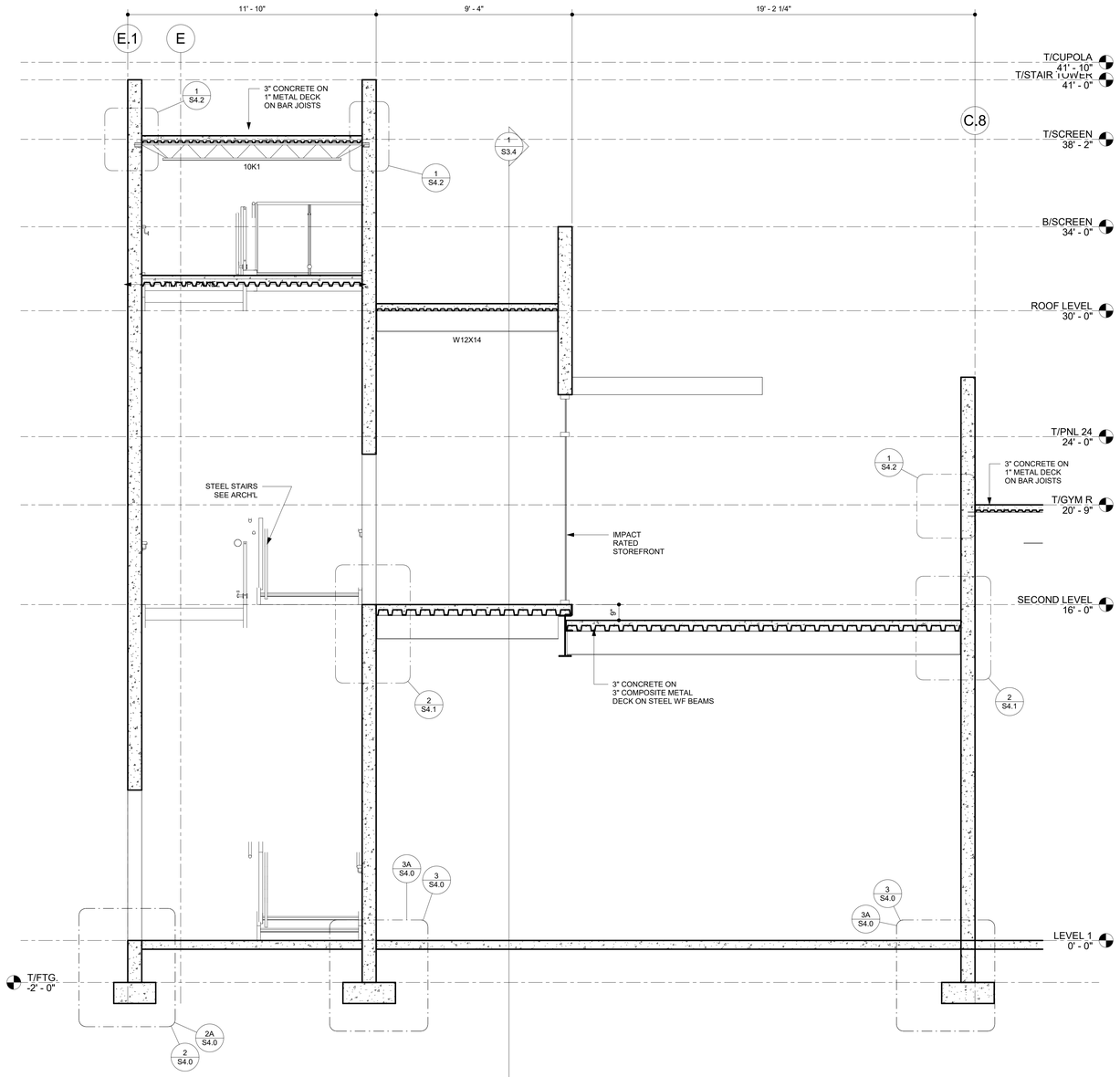
PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
JSG #24115

SHEET TITLE
BUILDING SECTIONS

SHEET NUMBER
S3.2



1 SECTION THROUGH STAIR TOWER
3/8" = 1'-0"

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J2 ARCHITECTURE

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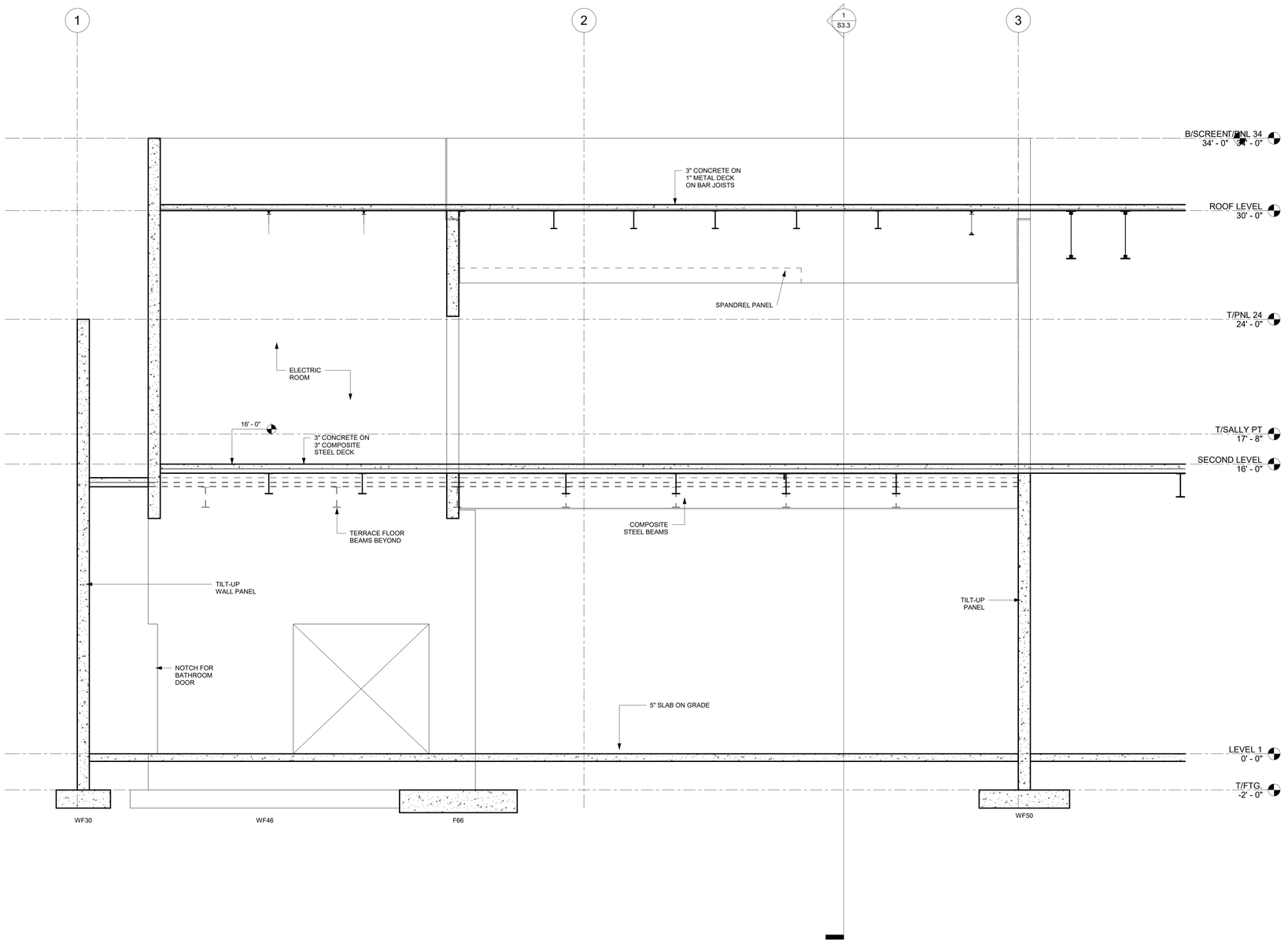
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
JSG #24115

SHEET TITLE
BUILDING SECTIONS

SHEET NUMBER
S3.3



1 SECTION THROUGH ELECTRIC ROOM
3/8" = 1'-0"

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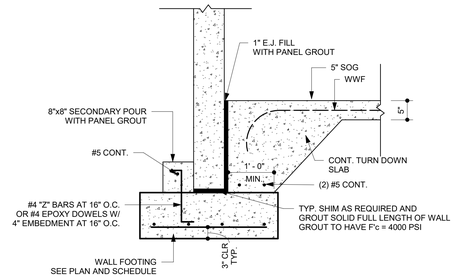
RIVIERA BEACH, FL 33404

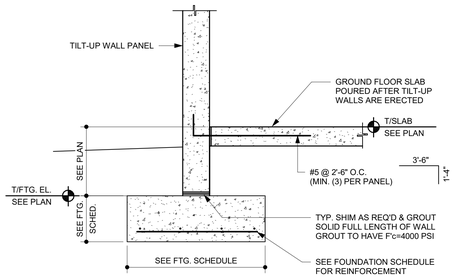
PROJECT NUMBER
JSG #24115

SHEET TITLE
BUILDING SECTIONS

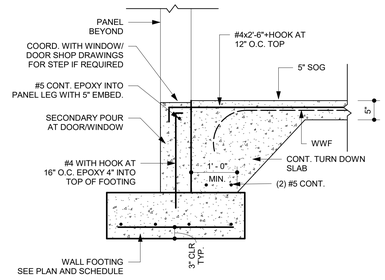
SHEET NUMBER
S3.4



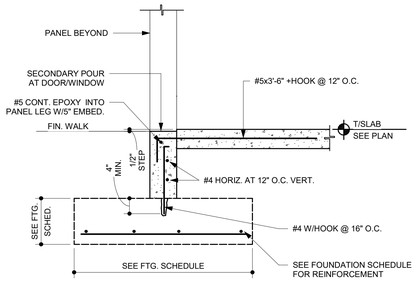
1 SECTION AT WALL FOOTING - TDS
3/4" = 1'-0"



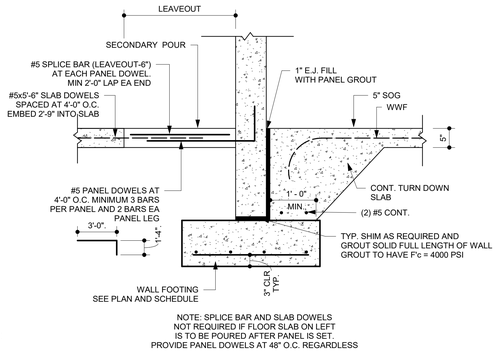
1A SECTION AT WALL FOOTING - LEAVEOUT
3/4" = 1'-0"



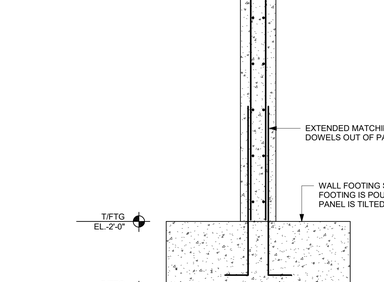
2 SECTION AT EXT. DOOR - TDS
3/4" = 1'-0"



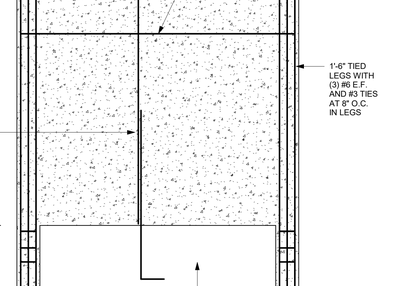
2A SECTION AT EXT. DOOR - LEAVEOUT
3/4" = 1'-0"



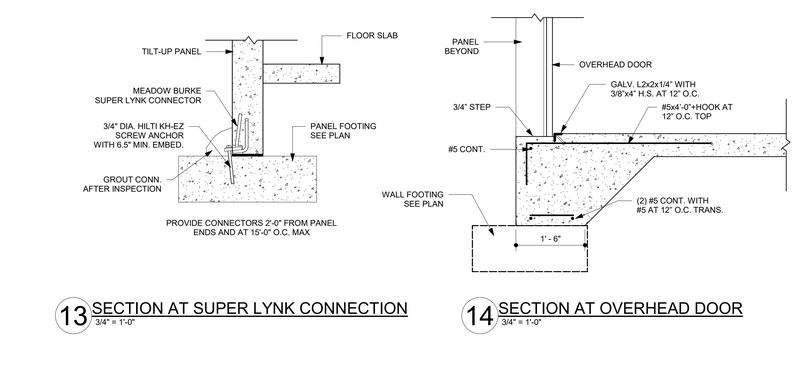
3 SECTION AT INTERIOR TILT WALL - TDS
3/4" = 1'-0"



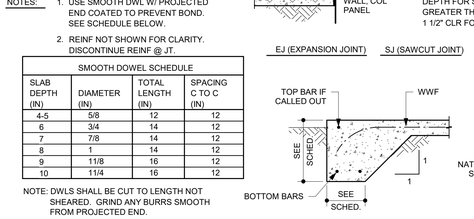
3A SECTION AT INTERIOR TILT WALL - LEAVEOUT
3/4" = 1'-0"



4 SECTION AT INTERIOR DOOR
3/4" = 1'-0"



5 SECTION AT ELEVATOR PIT
3/4" = 1'-0"



6 SECTION AT SUMP PUMP
3/4" = 1'-0"

7 SECTION AT STEEL WF COLUMN
3/4" = 1'-0"

8 SECTION AT STEEL TS COLUMN
3/4" = 1'-0"

9 SECTION AT STEEL STAIR LANDING
3/4" = 1'-0"

10 SECTION AT CMU & THICKENED SLAB
3/4" = 1'-0"

11 PLAN AT CMU TO TILT-UP WALL
3/4" = 1'-0"

12 SECTION AT FP-1
3/4" = 1'-0"

13 SECTION AT SUPER LYNK CONNECTION
3/4" = 1'-0"

14 SECTION AT OVERHEAD DOOR
3/4" = 1'-0"

A SLAB ON GRADE DETAILS
3/4" = 1'-0"

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PROJECT STATUS
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DATE OF ISSUE
10/14/2025

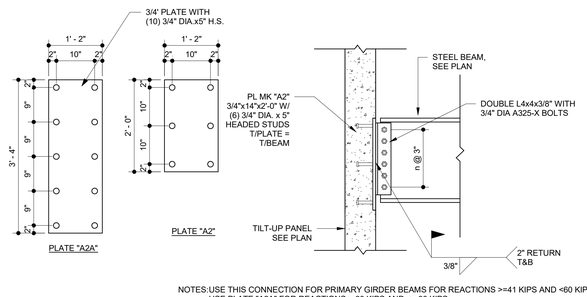
PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
JSG #24115

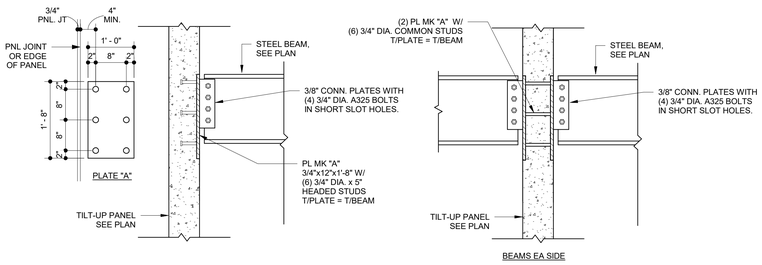
SHEET TITLE
FOUNDATION DETAILS

SHEET NUMBER
S4.0



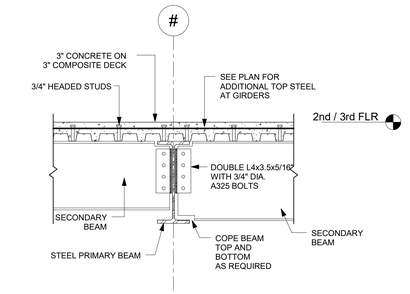
NOTES:USE THIS CONNECTION FOR PRIMARY GIRDER BEAMS FOR REACTIONS >=41 KIPS AND <60 KIPS
USE PLATE "A2A" FOR REACTIONS > 60 KIPS AND <= 90 KIPS
USE 5 BOLTS FOR W18 BEAM
USE 6 BOLTS FOR W21 AND W24 BEAMS

1 SECTION AT PRIMARY BEAM TO WALL
3/4" = 1'-0"



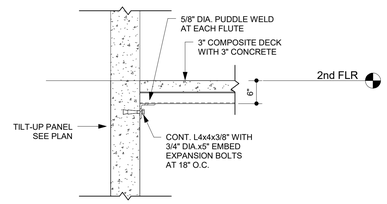
NOTE: USE THIS CONNECTION FOR REACTIONS EQUAL TO OR LESS THAN 40 KIPS FIELD AND
30 KIPS AT THE EDGE. THIS CONNECTION ALSO APPLIES FOR BEAMS AT A SKEW TO WALL

2 SECTION AT SECONDARY BEAM TO WALL
3/4" = 1'-0"

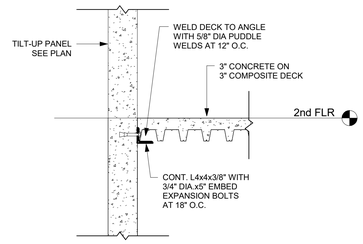


USE (3) BOLTS FOR W12, W14
USE (4) BOLTS FOR W16, W18
USE (5) BOLTS FOR W21, W24

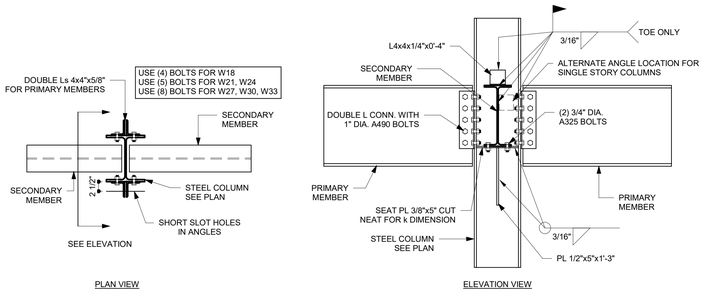
3 SECTION AT BEAM TO BEAM
3/4" = 1'-0"



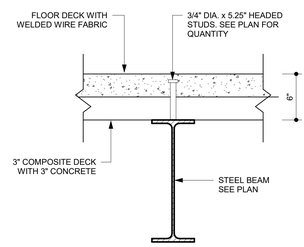
4 SECTION AT FLOOR DECK BEARING
3/4" = 1'-0"



5 SECTION AT FLOOR PARALLEL TO WALL
3/4" = 1'-0"

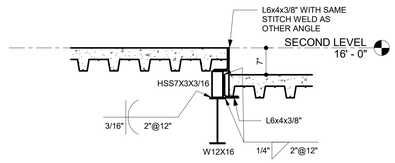


6 SECTION AT WF COLUMN TO BEAM CONNECTION
3/4" = 1'-0"

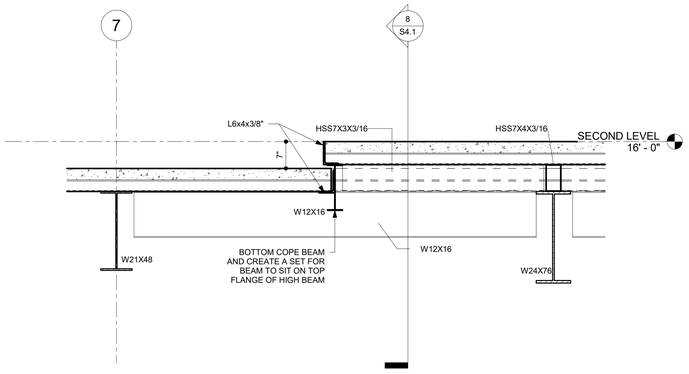


7 SECTION AT TYPICAL DECK BEARING
1 1/2" = 1'-0"

SEE SHEET S1.4 FOR ISOMETRIC VIEW OF DROPPED FLOOR



8 SECTION AT DECK TRANSITION 1
3/4" = 1'-0"



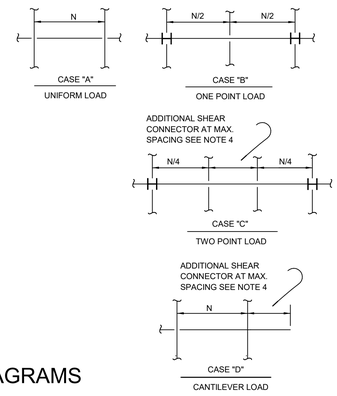
9 SECTION AT DECK TRANSITION 2
3/4" = 1'-0"

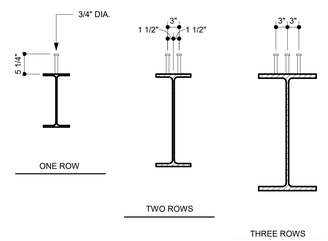
NOTES:
1. CONDUITS NEED TO BE LIMITED TO A MAXIMUM 1" OUTSIDE DIAMETER
2. CONDUIT SHALL BE WIRE TIED TO 3/4" CHAIRS SET ON THE TOP FLUTES
3. CONDUIT SHALL NOT BE RUN IN THE "VALLEY" OF THE FLUTES
4. GANGIN OF 2 CONDUITS IS PERMITTED, NO MORE THAN 2 ARE PERMITTED TO BE GANGED TOGETHER
5. SPACE CONDUIT RUNS MINIMUM 18 INCHES APART THROUGHOUT THE RUN
6. DO NOT CROSS CONDUIT RUNS. NO OVERLAPPING PERMITTED
7. DO "HOME RUNS" TO MEP ROOMS

CONDUITS IN DECK

NOTES:
1. N=SPECIFIED NUMBER OF SHEAR CONNECTORS. REFER TO PLAN
2. UNLESS NOTED OTHERWISE ON PLAN OR IN THE COMPOSITE BEAM SCHEDULE, SHEAR CONNECTORS SHALL BE DISTRIBUTED ALONG THE ENTIRE LENGTH OF THE BEAM AS SHOWN ON DETAILS ABOVE.
3. FOR GIRDERS, PROVIDE NUMBER OF SHEAR CONNECTORS (NSC) WITHIN THAT BAY AS SPECIFIED ON PLANS.
4. REFER TO GENERAL NOTED FOR SHEAR CONNECTOR DIAMETER AND LENGTH
5. MAXIMUM SPACING OF SHEAR CONNECTORS SHALL BE AS FOLLOWS:
   A. BEAMS PERPENDICULAR TO DECK SPAN = 18 INCHES
   B. BEAMS PARALLEL TO DECK SPAN = 24 INCHES
   C. CHANNELS OR TUBES = 18 INCHES
6. WHERE STEEL DECK CORRUGATIONS DO NOT ALLOW FOR AN EVEN SPACING OF SHEAR CONNECTORS WITH ONE STUD IN EACH FLUTE, ADDITIONAL STUDS IN A SECOND ROW (AND THIRD ROW WHERE REQUIRED) SHALL BE PLACED SUCH THAT THE HIGHEST DENSITY OF SHEAR CONNECTORS OCCURS NEAR THE BEAM SUPPORT.
7. WHERE THE SPECIFIED NUMBER OF SHEAR CONNECTORS IS LESS THEN THE BEAM SPAN LENGTH DIVIDED BY THE MAXIMUM SPACING (SEE NOTE 4), ADDITIONAL SHEAR CONNECTORS SHALL BE PROVIDED SUCH THAT THE MAXIMUM SPACING IS NOT EXCEEDED AT ANY LOCATION IN THE SPAN
8. SUBMIT SHOP DRAWINGS SHOWING PLACEMENT OF SHEAR CONNECTORS FOR ENGINEER'S APPROVAL
9. PUDDLE WELDS MUST BE USED SUCH THAT WELDING (INCLUDING SHEAR STUDS) OF DECK TO ALL BEAMS DOES NOT EXCEED 12 INCHES ON CENTER ANYWHERE.

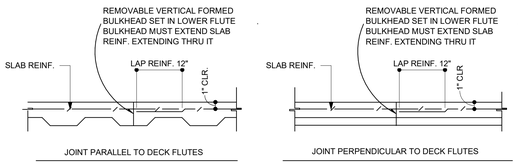
SHEAR CONNECTOR PLACEMENT DIAGRAMS COMPOSITE METAL DECK





NOTES:
1. SHEAR CONNECTORS IN ONE ROW SHALL BE PLACED DIRECTLY OVER THE BEAM WEB
2. SUBMIT SHOP DRAWINGS SHOWING PLACEMENT OF SHEAR CONNECTORS FOR THE ENGINEER'S APPROVAL
3. PLACE STUD IN A SINGLE ROW WHERE SPACING REQUIREMENTS PERMIT.
4. STUDS SHALL BE PLACED IN TWO ROWS OR THREE ROWS ONLY WHERE REQUIRED IN ORDER TO PLACE THE TOTAL NUMBER OF STUDS. SEE TYPICAL DETAILS AND SHEAR CONNECTOR PLACEMENT DIAGRAMS
5. PROVIDE MINIMUM 1" SPACING FROM EDGE OF FLANGE TO CENTERLINE OF STUD

TYPICAL DETAIL SHEAR CONNECTOR SPACING CRITERIA



NOTES:
1. CONSTRUCTION JOINTS SHALL BE LOCATED NO CLOSER THAN 5'-0" FROM THE CENTER LINE OF THE NEAREST GIRDER
2. AT CONTRACTOR'S OPTION, PRE-FORMED PERMANENT METAL SHEAR KEY MAY BE USED WITH SLAB REINFORCEMENT STOPPING EACH SIDE AND #3 DOWELSx2'-0" CENTERED AT 18" O.C.

TYPICAL DETAIL CONCRETE SLAB ON METAL DECK CONSTRUCTION JOINT

A COMPOSITE BEAM DETAILS
3/4" = 1'-0"

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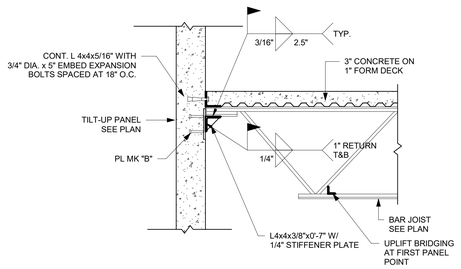
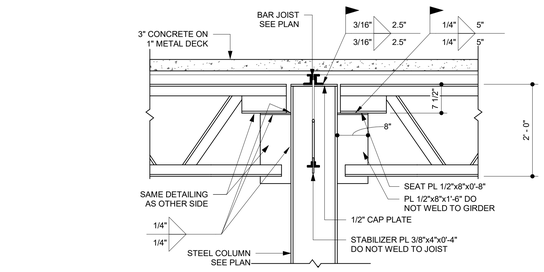
PROJECT NUMBER
JSG #24115

SHEET TITLE
FLOOR FRAMING DETAILS

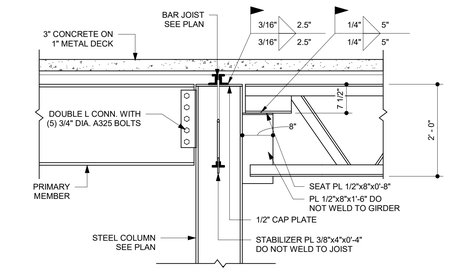
SHEET NUMBER
S4.1



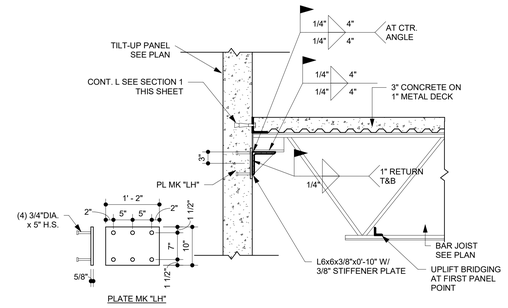
9 SECTION AT JOIST TO GIRDER 3+1
3/4" = 1'-0"



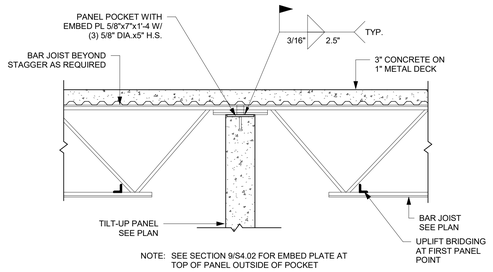
10 SECTION AT PANEL JOINT
3/4" = 1'-0"



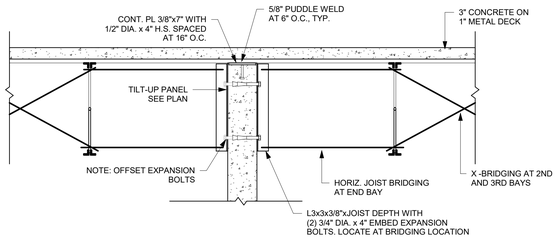
11 SECTION AT JOIST GIRDER TO PANEL COLUMN
3/4" = 1'-0"



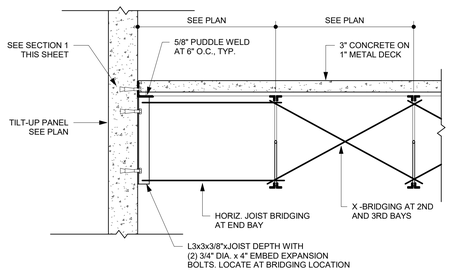
8 SECTION AT LH JOIST BEARING 3+1
3/4" = 1'-0"



5 SECTION AT K JOIST COMMON BRG. 3+1
3/4" = 1'-0"

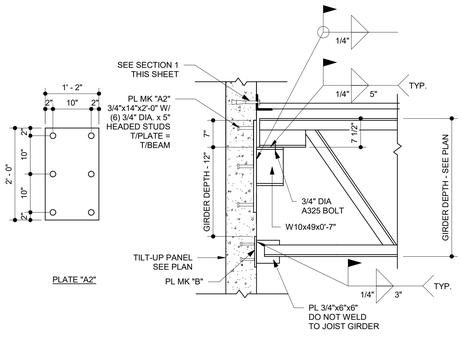


6 SECTION AT DECK OVER PANEL
3/4" = 1'-0"



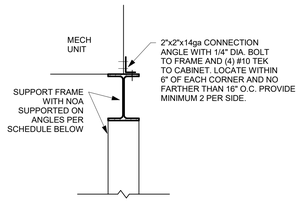
7 SECTION AT BRIDGING
3/4" = 1'-0"

12 SECTION AT JOIST GIRDER TO TS COL
3/4" = 1'-0"



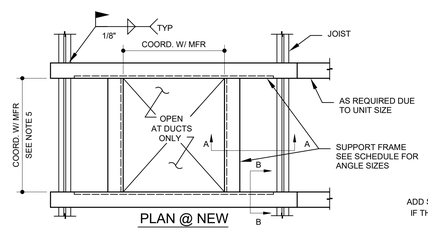
NOTE: SEE PANEL REINFORCEMENT DETAILS FOR ADDITIONAL STEEL AT GIRDER LOCATIONS. USE A2 PLATE WITH COMMON STUDS FOR JOIST GIRDERS EA SIDE OF WALL

4 SECTION AT JOIST GIRDER TO WALL
3/4" = 1'-0"



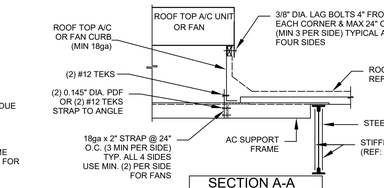
AT CONDENSER FRAME

ROOF TOP UNIT FRAME SCHEDULE		
UNIT WEIGHT	ANGLE SIZE	
0 - 675 lbs	L4x3x1/4	LLH
676 - 1500 lbs	L4x3 1/2x5/16	LLH
1501 - 3000 lbs	L6x4x3/8	LLH
3001 - 6000 lbs	L6x6x3/8	

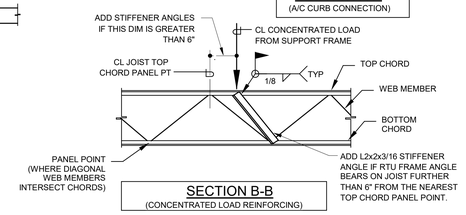


PLAN @ NEW

NOTES:
1. VERIFY ALL DIM'S & DETAILS W/ MECH CONTR BEFORE FABRICATION.
2. A/C UNIT TOTAL WEIGHT-SEE PLAN FOR WEIGHT AND FRAME SCHEDULE FOR ANGLE FRAME SIZE.
3. PROVIDE L3x3x1/4 FRAME AT ALL OPNGS GREATER THAN 12" ON ANY SIDE.
4. THE ANGLE FRAME SHALL BE PROVIDED SO THAT THE ENTIRE PERIMETER OF THE RTU CURB IS SUPPORTED.
5. PROVIDE INTERMEDIATE ANGLE SUPPORTS IF THIS DISTANCE EXCEEDS 6'-0"

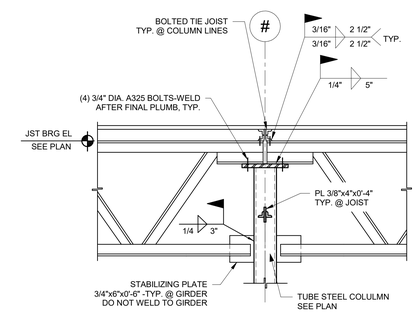


SECTION A-A
(A/C CURB CONNECTION)



SECTION B-B
(CONCENTRATED LOAD REINFORCING)

A MECH ROOF SUPPORT DETAILS
3/4" = 1'-0"



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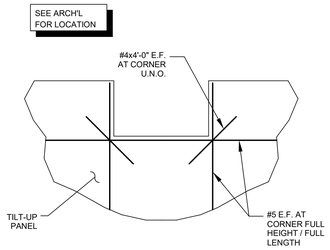
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

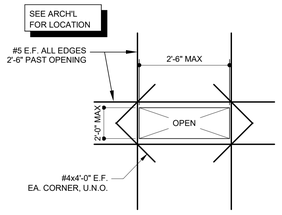
PROJECT NUMBER
JSG #24115

SHEET TITLE
ROOF FRAMING DETAILS

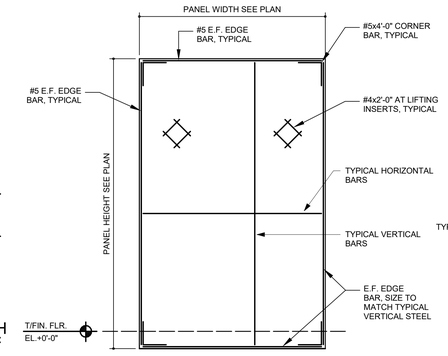
SHEET NUMBER
S4.2



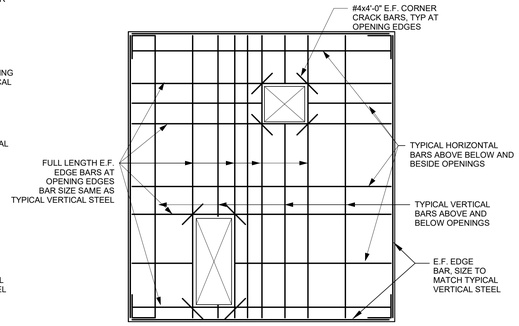
1 NOTCH REINFORCEMENT
SCALE:N.T.S.



2 TYP. SCUPPER/SMALL MECH
SCALE:N.T.S.



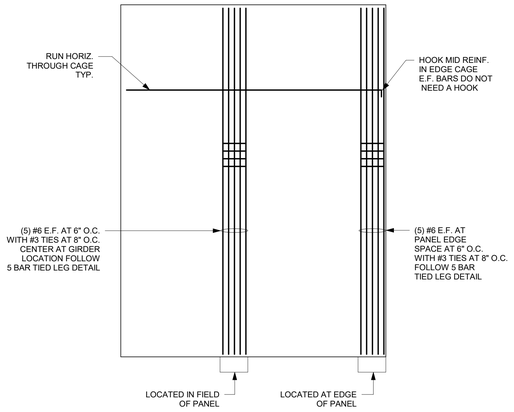
TYPICAL PANEL DETAILS



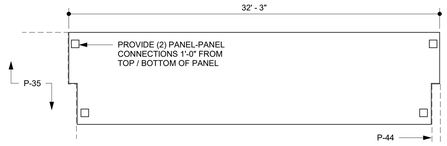
TYPICAL PANEL DETAILS

PANEL REINFORCING SCHEDULE

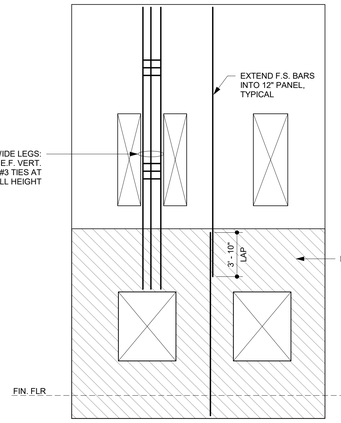
PANEL NUMBERS	THICKNESS	TYPICAL REINFORCEMENT VERTICAL	TYPICAL REINFORCEMENT HORIZONTAL	NOTES
P-1 THRU P-8	8.00"/12.00"	#5/15 E.F.	#4/12 E.F.	SEE S5.0 FOR ADD'L BARS
P-19, P-22 THRU P-28	8.00"	#6/10 MID	#4/12 MID	
FP-1, FP-2	9.25"	#6/12 E.F.	#4/12 E.F.	SEE 12/S4.0 FOR DETAILS
P-9 THRU P-12, P-43 THRU P-47	8.00"	#5/10 E.F.	#4/12 E.F.	ADD GIRDER CAGE P-10, P-11 P-46. SEE THIS SHEET FOR ADDED REINFORCEMENT FOR P-44 AND P-45
SP-1, SP-2	8.00"	#5/12 MID	#5/12 MID	
P-29	8.00"	#5/10 MID	#5/12 MID	
P-30, P-32, P-33, P-35, P-41, P-42 P-13 THRU P-15, EP-1 THRU EP-4	8.00"	#5/12 MID	#4/12 MID	
P-31, P-34, P-37, P-38	8.00"	#5/12 E.F.	#4/12 E.F.	SEE S5.1 FOR ADD BARS
P-36, P-39, P-40	8.00"	#5/10 MID	#4/12 MID	
P-16, P-18, P-21	8.00"	#6/12 E.F.	#4/12 E.F.	SEE S5.1 FOR ADD BARS P-18
P-17, P-20	11.25"	#6/10 E.F.	#4/12 E.F.	
LP-1	16.0" / 8.0"	#5/10 E.F.	#5/12 E.F.	
LP-2	8.00"	#5/15 E.F.	#5/10 E.F.	SEE S5.1 FOR ADD BARS



TYPICAL GIRDER REINFORCEMENT DETAILS



PANEL P-2



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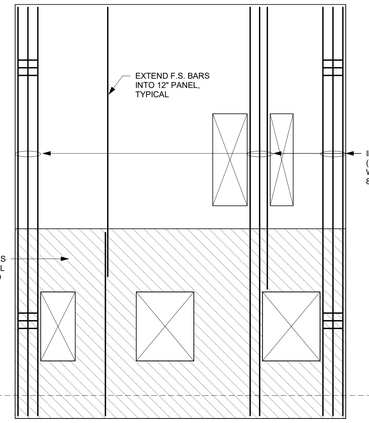
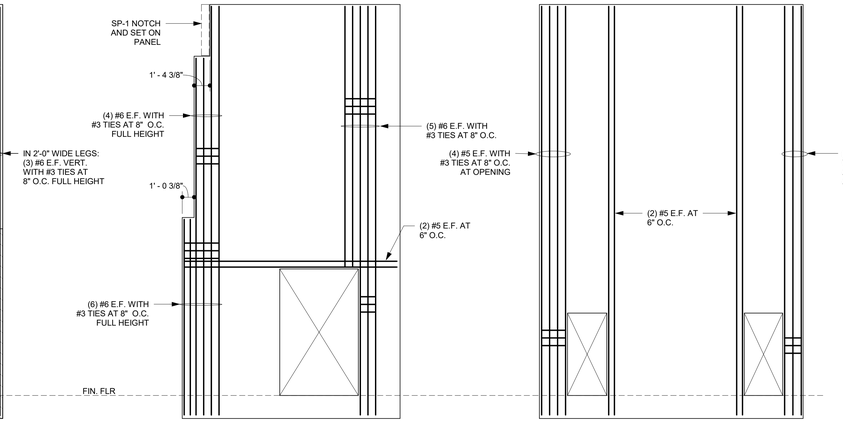


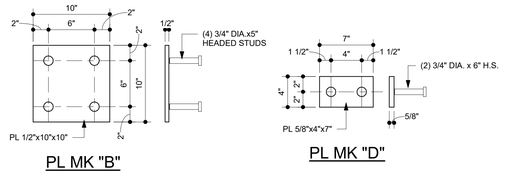
PANELS P-2 AND P-6 SHOWN AS EXAMPLES. ADD THE (3) #6 TIED CAGE FOR ALL 2'-0" WIDE LEGS IN P-2, P-4, P-6 AND P-8

PANEL P-6



PANEL P-44

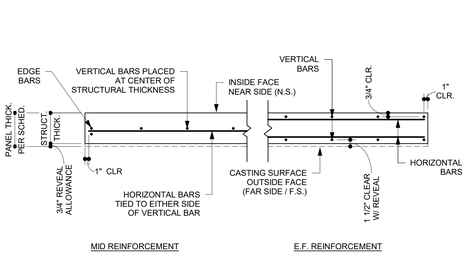
PANEL P-45

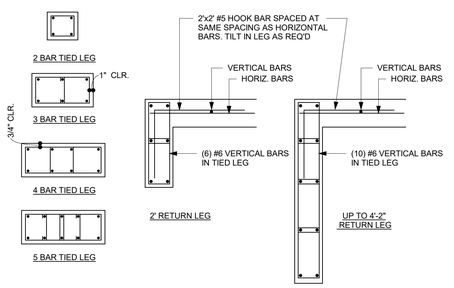


PL MK "B"

PL MK "D"

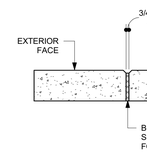
3 PANEL EMBED PLATES
1 1/2" = 1'-0"



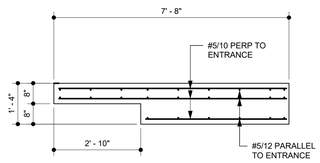


PROVIDE MINIMUM TWO (2) CONNECTIONS PER LEVEL BETWEEN PANELS AT INSIDE BUTT, OUTSIDE BUTT, AND MITER CORNERS ONLY, U.N.O. ON PLAN (DETAILS C, D, AND E BELOW). PROVIDE DETAIL F ONLY WHERE INDICATED ON PLAN. LOCATE CONNECTIONS AT 2'-0" A.F.F. (GROUND) AND AT 2'-0" BELOW SECOND FLOOR OR ROOF TRUSS BEARING TYPICAL U.N.O. RECESS ALL PLATES 3/4" AT STAIRS AND ELEVATOR CONNECTIONS U.N.O. ON PLAN. IF CALLOUT DOES NOT SPECIFY SPACING, SPACE CONNECTIONS EQUALLY BETWEEN FLOORS. RECESS ALL EMBED CONNECTIONS EXPOSED TO WEATHER 3/4" AND PATCH AFTER INSPECTION

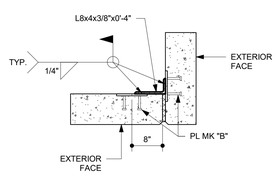
A REINFORCEMENT PLACEMENT DIAGRAM
3/4" = 1'-0"



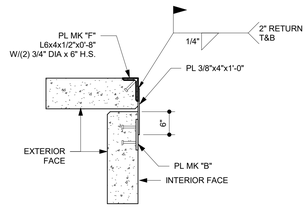
B TYPICAL PANEL JOINT
3/4" = 1'-0"



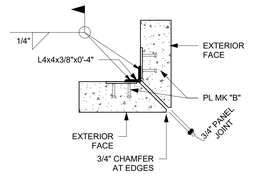
1 LP-1 SECTION
1/2" = 1'-0"



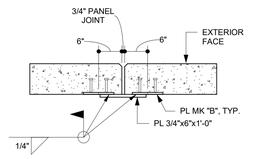
C OUTSIDE BUTT JOINT
3/4" = 1'-0"



D INSIDE BUTT JOINT
3/4" = 1'-0"



E MITER CORNER
3/4" = 1'-0"



F PANEL-PANEL CONNECTION
3/4" = 1'-0"

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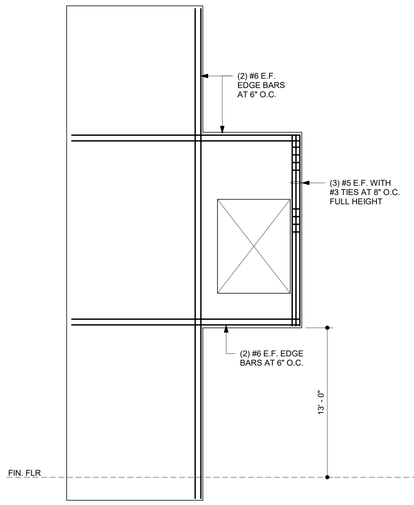
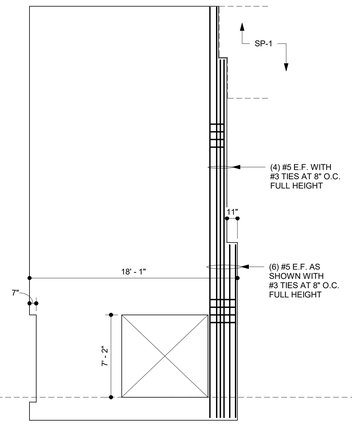
PROJECT NUMBER
JSG #24115

SHEET TITLE
PANEL DETAILS

SHEET NUMBER
S5.0



PANEL P-31



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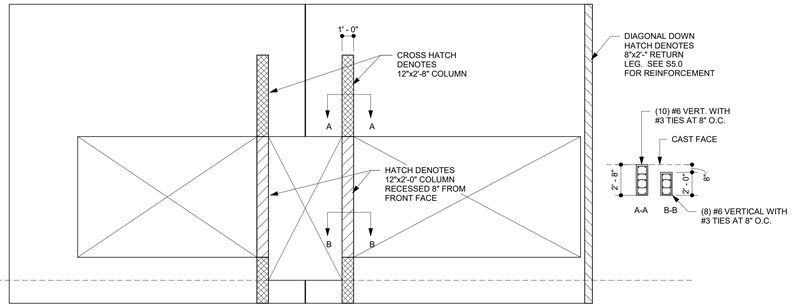
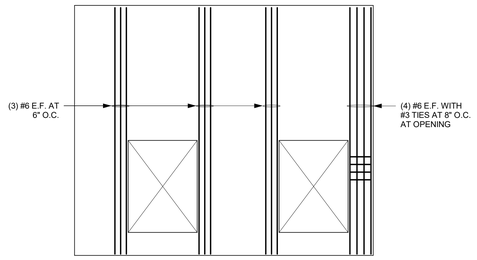


PANEL P-37

PANEL P-38



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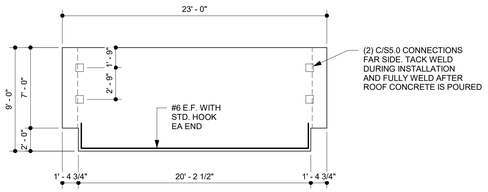

PANEL TP-2



PANEL TP-1, TP-3

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SHEET TITLE
PANEL DETAILS

SHEET NUMBER
S5.1

FIRE PROTECTION DESIGN CRITERIA:

61G15-32.003 (1) (2) (5)

(1) SCOPE OF WORK:
NEW CONSTRUCTION BUILDING:
FIRE PROTECTION SYSTEM FOR NEW CONSTRUCTION 2 STORY ADMIN. BUILDING.

BUILDING SHALL BE PROTECTED WITH A WET AUTOMATIC FIRE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13, 2019 EDITION.

THE EXISTING CITY SUPPLY PRESSURE SHALL BE BOOSTED BY A ELECTRICAL FIRE PUMP SYSTEM IN ACCORDANCE WITH NFPA 20, 2019 EDITION

(2) ACCEPTANCE TEST CRITERIA:
TESTING OF FIRE PROTECTION SYSTEM AND ITS COMPONENTS SHALL COMPLY WITH ALL APPLICABLE ITEMS PER NFPA 13, 2019 EDITION, FIGURES 6.10.1 AND 28.1, CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR ABOVE AND UNDERGROUND PIPING.

SYSTEMS SHALL BE HYDROSTATICALLY TESTED AT NOT LESS THAN 200 PSI PRESSURE FOR 2 HOURS, OR AT 50 PSI IN EXCESS OF THE MAXIMUM PRESSURE, WHEN THE MAXIMUM PRESSURE TO BE MAINTAINED IN THE SYSTEM IS IN EXCESS OF 150 PSI.

THE TESTING PRESSURE SHALL BE READ FROM A GAUGE LOCATED AT THE LOW ELEVATION POINT OF THE INDIVIDUAL SYSTEM OR PORTION OF THE SYSTEM BEING TESTED.

THE CONTRACTOR SHALL PERFORM ALL REQUIRED ACCEPTANCE TESTS IN ACCORDANCE WITH NFPA-13. COMPLETE THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE(S), AND FORWARD THE APPROVED CERTIFICATE(S) TO THE ARCHITECT/ENGINEER FOR APPROVAL OF THE INSTALLATION.

ALL TEST CERTIFICATE(S) SHALL BE DATED, SIGNED AND WITNESSED BY AHJ. SUBMIT ONE COPY OF EACH TEST CERTIFICATE TO ARCHITECT/ENGINEER.

(5) STRUCTURAL SUPPORT AND STRUCTURAL OPENINGS:
THE SUPPORT SYSTEMS FOR THIS BUILDING SHALL BE DESIGNED BY A STATE LICENSED STRUCTURAL ENGINEER IN ACCORDANCE WITH F.A.C., PLEASE REFER TO STRUCTURAL DRAWINGS FOR LIVE AND DEAD LOADING INFORMATION. THERE ARE NO SIGNIFICANT STRUCTURAL OPENINGS THAT WILL BE REQUIRED FOR THIS FIRE SPRINKLER SYSTEM.

61G15-32.004 (2) (A-M)

A. POINT OF SERVICE:
POINT OF CONNECTION SHALL BE TO AN EXISTING WATER SUPPLY MAIN ON SITE. POINT OF SERVICE OCCURS WHEN THE UNDERGROUND PIPING FOR THE FIRE SPRINKLER SYSTEM BECOMES EXCLUSIVELY FOR THE FIRE PROTECTION SYSTEM. ONE FIRE DEPARTMENT CONNECTION SHALL LOCATED ON SITE. REFER TO CIVIL UTILITY SITE DRAWINGS FOR LOCATION OF POS AND FDC.

B. APPLICABLE NFPA STANDARD TO BE APPLIED:
- FLORIDA FIRE PREVENTION CODE 8TH EDITION
- NFPA 13, 2019 EDITION
- NFPA 20, 2019 EDITION
- NFPA 24, 2019 EDITION
- NFPA 25, 2020 EDITION

C. CLASSIFICATION OF HAZARD OCCUPANCY OF EACH AREA OR ROOM:
LIGHT HAZARD OCCUPANCIES INCLUDE OCCUPANCIES HAVING USES AND CONDITIONS SIMILAR TO THE FOLLOWING: OFFICE SPACES, BATHROOMS AND CORRIDORS.

ORDINARY HAZARD GROUP I OCCUPANCIES INCLUDE OCCUPANCIES HAVING USES AND CONDITIONS SIMILAR TO THE FOLLOWING: STORAGE ROOMS, ELECTRICAL ROOMS, MECHANICAL ROOMS, IDF ROOMS AND IT ROOMS.

ORDINARY HAZARD GROUP II OCCUPANCIES INCLUDE OCCUPANCIES HAVING USES AND CONDITIONS SIMILAR TO THE FOLLOWING: FIRE PUMP ROOMS AND ELEVATOR HOISTWAYS.

EXTRA HAZARD GROUP I OCCUPANCIES INCLUDE OCCUPANCIES HAVING USES AND CONDITIONS SIMILAR TO THE FOLLOWING: GENERATOR ROOM AND EVIDENCE STORAGE.

REFER TO FIRE PROTECTION DRAWINGS FOR ALL ROOM HAZARD OCCUPANCY CLASSIFICATIONS.

D. DESIGN APPROACH:

DENSITY/AREA:
LIGHT HAZARD:
0.10 GPM/SQ.FT. OVER THE MOST DEMANDING 1500 SQ. FT. AREA OF SPRINKLER OPERATION. AREA OF OPERATION MAY BE REDUCED FOR LISTED QUICK RESPONSE SPRINKLER HEADS PER NFPA 13, 2019 EDITION SECTION 19.3.3.2.3.1. AN ADDITIONAL 100 GPM SHALL BE ADDED FOR A TOTAL COMBINED INSIDE AND OUTSIDE HOSE STREAM DEMAND.

EXTRA HAZARD GROUP I:
0.30 GPM/SQ.FT. ROOM DESIGN METHOD WAS APPLIED. AN ADDITIONAL 500 GPM SHALL BE ADDED FOR A TOTAL COMBINED INSIDE AND OUTSIDE HOSE STREAM DEMAND.

SPRINKLER HEADS:
QUICK RESPONSE, 155°F UNLESS OTHERWISE NOTED.

SPACING:
STANDARD COVERAGE HEADS:
PENDENT AND UPRIGHT SPRINKLER HEADS, MAXIMUM PROTECTION SHALL BE 225 SQ. FT. FOR ALL LIGHT HAZARD AREAS, AND 130 SQ. FT. FOR ALL ORDINARY HAZARD GROUP I AND II AREAS. (MAXIMUM SPACING SHALL BE 15'-0" AND MINIMUM SPACING SHALL BE 6'-0")

MAXIMUM PROTECTION SHALL BE 100 SQ. FT FOR EXTRA HAZARD GROUP I AREAS. (MAXIMUM SPACING SHALL BE 12'-0" AND MINIMUM SPACING SHALL BE 6'-0").

E. CHARACTERISTICS OF THE WATER SUPPLY TO BE USED:
THE EX. WATER MAIN IS AN 10" CIRCULATING MAIN LOCATED ON THE AVENUE S. BASED ON THE FLOW TEST DATA RECEIVED, THE DURATION WILL SUPPORT THE DESIGN CRITERIA. A NEW 8" UNDERGROUND WATER MAIN CONNECTS TO AN EX. 10" UNDERGROUND WATER SUPPLY ADJACENT THE BUILDINGS. THE NEW 8" UNDERGROUND MAIN CONNECTS TO THE SITE BACKFLOW DEVICE BEFORE EXTENDING TO THE SITE FIRE PUMP SYSTEM. A NEW 8" BOOSTED SUPPLY MAIN IS ROUTED FROM THE SITE FIRE PUMP SYSTEM TO ALL BUILDING ON SITE.

F. FLOW TEST DATA:
FLOW TEST RESULTS PERFORMED ON, 04-22-2025.: REFER TO FIRE HYDRANT FLOW TEST DATA THIS SHEET FOR CLARIFICATION.

G. VALVE AND ALARM REQUIREMENTS TO MINIMIZE POTENTIAL FOR IMPAIRMENTS AND UNRECOGNIZED FLOW OF WATER:
ALL PADDLE TYPE WATER FLOW INDICATORS SHALL HAVE A FLOW SWITCH. ALL VALVES CONTROLLING THE FIRE SPRINKLER SYSTEMS, INCLUDING BACKFLOW DEVICE, SHALL HAVE TAMPER SWITCHES. ALL ELECTRICAL DEVICES SHALL BE MONITORED BY CENTRAL STATION OR SIMILAR AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION AND SHALL BE IN COMPLIANCE WITH NFPA 72.

H. MICROBIAL INDUCED CORROSION (MIC):
CONTRACTOR SHALL ORDER AND OBTAIN A TEST LAB REPORT INDICATING THAT NO MIC IS PRESENT IN THE SYSTEM.

PROVIDE WITH TYCO TAV-W AUTOMATIC AIR VENT. LOCATE AT HIGHEST REMOTE PART OF SPRINKLER SYSTEM.

I. BACKFLOW PREVENTION AND METERING SPECIFICATIONS:
THE BACKFLOW PREVENTION AND METERING EQUIPMENT SHALL BE INSTALLED BY A MINIMUM OF A CLASS V CONTRACTOR AS LICENSED BY THE STATE FIRE MARSHAL. THE MAXIMUM ALLOWABLE PRESSURE LOSS ACROSS THE DEVICE SHALL BE 5 PSI AT SYSTEM DEMAND.

J. QUALITY AND PERFORMANCE SPECIFICATIONS OF ALL YARD AND INTERIOR FIRE PROTECTION COMPONENTS:
ALL YARD AND INTERIOR FIRE PROTECTION COMPONENTS SHALL BE FM APPROVED AND UL LISTED.

K. FIRE PUMP REQUIREMENTS:
AURORA INLINE ELECTRICAL FIRE PUMP MODEL 8-383-15 1,000 GPM @ 60 PSI -75 HP, 3 PHASE, 460V, 60HZ

L. WATER STORAGE TANK:
WATER STORAGE TANK WILL NOT BE REQUIRED.

M. STORAGE OCCUPANCY REQUIREMENTS:
MISCELLANEOUS STORAGE OCCUPANCY IN ACCORDANCE WITH NFPA 13, 2019 EDITION CHAPTER 4.

OWNER'S INFORMATION CERTIFICATE AS DEPICTED IN NFPA 13 FIGURE A.27.1(b) SHALL BE PROVIDE BY OWNER FOR AHJ REVIEW AND VERIFICATION OF ANY POSSIBLE STORAGE.

FIRE PROTECTION GENERAL NOTES:

1. THE FIRE PROTECTION SYSTEM SHOWN REPRESENT THE DESIGN INTENT OF THE ENGINEER OF THE RECORD IN ACCORDANCE WITH STATE REGULATION 61G15-32. CONTRACTOR SHALL PROVIDE LAYOUT DRAWINGS AND ASSOCIATED HYDRAULIC CALCULATIONS PER DESIGN CRITERIA PROVIDED BY THE ENGINEER OF THE RECORD.
2. DESIGN AND INSTALLATION OF FIRE PROTECTION SYSTEM SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
   - FLORIDA FIRE PREVENTION CODE 8TH EDITION
   - NFPA 13, 2019 EDITION
   - NFPA 20, 2019 EDITION
   - NFPA 24, 2019 EDITION
   - NFPA 25, 2020 EDITION
3. ALL HANGERS & MATERIALS SHALL BE IN ACCORDANCE WITH NFPA 13 STANDARDS.
4. METHODS OF HANGING PIPES, HEADERS AND BRANCHES SHALL BE APPROVED BY NFPA-13. ALL HANGERS ON 4" PIPE AND LARGER IS TO BE CLEVIS TYPE HANGERS. POWDER DRIVEN STUDS SHALL NOT BE PERMITTED. ALL HANGERS SHALL BE U.L./F.M. APPROVED.
5. FIRE PROTECTION CONTRACTOR SHALL UTILIZE ONLY U.L. LISTED AND FM APPROVED MATERIALS AND EQUIPMENT THROUGHOUT THE FIRE SPRINKLER SYSTEM.
6. ALL YARD AND INTERIOR FIRE PROTECTION EQUIPMENT SHALL BE UL LISTED AND FM APPROVED. THE YARD UNDERGROUND SERVICE LINE SHALL BE TYPE DR-14, C900, CPVC PIPE. INTERIOR MAIN PIPING, 2-1/2" AND LARGER, SHALL BE SCHEDULE 10 BLACK STEEL, WITH GROOVED END FITTINGS AND WELDED BRANCH LINE OUTLETS. BRANCH LINE PIPING, 2" AND SMALLER, SHALL BE SCHEDULE 10 BLACK STEEL WITH GROOVED END FITTINGS AND WELDED OUTLETS AND/ OR SCHEDULE 40 WITH THREADED ENDS. SPRIGS, ARM-OVERS AND DROPS SHALL BE SCHEDULE 40 STEEL WITH THREADED ENDS. ALL PIPING AND FITTINGS EXPOSED TO THE OUTSIDE ELEMENTS OR CORROSIVE ENVIRONMENTS SHALL BE GALVANIZED MATCHING THE CRITERIA ABOVE.
7. ALL METAL HANGERS, SUPPORTS, THREADED ROD, ETC. EXPOSED TO THE OUTSIDE ELEMENTS OR CORROSIVE ENVIRONMENTS SHALL BE HOT DIPPED GALVANIZED.
8. ALL UNDERGROUND PIPING SHALL BE ADEQUATELY SUPPORTED. ALL UNDERGROUND PIPING SHALL BE BURIED AT LEAST 12 INCHES BELOW THE FROST LINE FOR THE LOCALITY OR A MINIMUM OF 36 INCHES BELOW FINISH GRADE IF FROST IS NOT APPLICABLE.
9. SPRINKLER SYSTEMS SHALL HAVE AN UNDERGROUND FLUSH COMPLETED AT THE TIME OF HYDROSTATIC TEST. FLUSHING SHALL BE COMPLETED PRIOR TO CONNECTING THE UNDERGROUND PIPING TO THE OVERHEAD PIPING.
10. SPRINKLER SYSTEMS SHALL BE HYDROSTATICALLY TESTED FOR 2 HOURS AT 200 PSI OR 50 PSI IN EXCESS OF NORMAL WORKING PRESSURE WHEN NORMAL WORKING PRESSURE EXCEEDS 150 PSI.
11. SUITABLY PROTECT ALL EQUIPMENT FURNISHED DURING CONSTRUCTION ALL RUBBISH OCCASIONED BY THIS INSTALLATION SHALL BE PERIODICALLY REMOVED FROM THE PREMISES AND ALL EXPOSED WORK SHALL BE THOROUGHLY CLEANED PRIOR TO FINAL ACCEPTANCE. RESTORE ANY DAMAGED SURFACES AND ITEMS TO "LIKE NEW" CONDITION BEFORE A REQUEST FOR FINAL ACCEPTANCE.
12. UNTIL SYSTEM IS COMPLETED, TESTED AND ACCEPTED, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF LEAKS, AND ACCIDENTAL BREAKS.
13. CONTRACTOR SHALL GUARANTEE IN WRITING, HIS RESPONSIBILITY FOR DEFECTIVE MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FORM THE DATE OF FINAL ACCEPTANCE ISSUED BY THE ARCHITECT AND CORRECT ANY DEFICIENCIES, LABOR AND MATERIALS, WITHOUT ADDITIONAL COST TO OWNER.
14. ALL EXPOSED SPRINKLER PIPING SHALL BE PAINTED. COORDINATE ALL PAINTING REQUIREMENTS/ COLORS WITH ARCHITECTURAL DRAWINGS.
15. FIRE SPRINKLER CONTRACTOR SHALL NOT ROUTE ANY FIRE PROTECTION PIPING ABOVE ELECTRICAL PANELS. OFFSET OR REROUTE AS REQUIRED.
16. ALL SPRINKLER HEADS EXPOSED TO THE OUTSIDE ELEMENTS SHALL BE UL LISTED CORROSION RESISTANT.
17. PROVIDE ADDITIONAL SPRINKLER HEADS UNDER HVAC DUCT WORK OR OBSTRUCTION EQUAL TO AND EXCEEDING 4' IN WIDTH.
18. ALL SPRINKLER HEADS SHALL BE CENTERED TO THE CEILING TILES.
19. ALIGN ALL SPRINKLER HEADS WITH CEILING LIGHT FIXTURES AND MECHANICAL DIFFUSERS.
20. PROVIDE SPRINKLER HEAD GUARDS THAT ATTACH ONLY TO THE PIPE AND NOT THE FIRE SPRINKLER HEAD (SPRINKGAURD OR APPROVED EQUAL) FOR ALL HEADS LOCATED WITHIN MECHANICAL ROOMS, ELECTRICAL ROOMS, ELEVATOR PITS, BENEATH STAIRS, STORAGE ROOMS OR LOCATED BELOW 7'-6"
21. FIRE SPRINKLER HEADS IN EXPOSED OBSTRUCTED CONSTRUCTION AREAS (AREAS CONTAINING STRUCTURAL BEAMS) SHALL BE INSTALLED BELOW THE STRUCTURAL MEMBERS UP TO A MAXIMUM OF 22" BELOW THE CEILING AVOIDING OBSTRUCTION TO DISCHARGE IN CONFORMANCE WITH NFPA 13, 2019 EDITION SECTION 10.2.6.1.2 (1), (2), AND (4).
22. FIRE PROTECTION CONTRACTOR SHALL COMPLY WITH NFPA 13, 2019 EDITION TABLES 10.2.7.1.2 (A), (B), & (C) TO AVOID OBSTRUCTION TO SPRINKLER HEAD DISCHARGE. FIRE PROTECTION CONTRACTOR SHALL THOROUGHLY COORDINATE FIRE SPRINKLER HEAD PLACEMENTS WITH ALL STRUCTURAL/ ARCHITECTURAL OBSTRUCTIONS.
23. ONLY NEW SPRINKLERS SHALL BE EMPLOYED IN THE INSTALLATION OF SPRINKLER SYSTEMS. AT LEAST TWELVE SPARE SPRINKLER HEADS OF EACH TYPE, TEMPERATURE RATING, AND ORIFICE SIZE USED IN THE SYSTEMS SHALL BE KEPT IN THE PREMISES. REPLACEMENT SPRINKLERS SHALL HAVE THE SAME OPERATING CHARACTERISTICS AS THE SPRINKLER HEADS BEING REPLACED.
24. PROVIDE ADEQUATE DRAIN PER NFPA - 13.
25. EACH SPRINKLER SYSTEM SHALL HAVE A DRAIN AND TEST CONNECTION WITH A VALVE ON THE SYSTEM SIDE OF THE CONTROL VALVE.
26. WATER FLOW TEST CONNECTIONS SHALL BE PROVIDED AT LOCATIONS THAT ALLOW FLOW TESTING OF WATER SUPPLIES, CONNECTIONS, AND ALARM MECHANISMS.
27. PROVIDE FLUSHING CONNECTIONS AT REMOTE END OF ALL CROSS MAINS AND AT ALL LOW ENDS. ROUTE ALL DRAIN PIPING TO THE GROUND LEVEL AND DISCHARGE TO THE EXTERIOR OF THE BUILDING OR STORM DRAINAGE SYSTEM.
28. SPRINKLER ZONES WITH DEAD END MAINS OR MORE THAN ONE REMOTE END, PROVIDE WITH INSPECTORS TEST AND DRAINS TO EACH END MAIN AND REMOTE END. ROUTE ALL DRAIN PIPING TO THE GROUND LEVEL AND DISCHARGE TO THE EXTERIOR OF THE BUILDING OR STORM DRAINAGE SYSTEM.
29. FIRE PROTECTION CONTRACTOR SHALL THOROUGHLY COORDINATE ALL HEADS, HANGERS, PIPING AND ALL OTHER ASSOCIATED MATERIAL LOCATIONS WITH MECHANICAL, PLUMBING, ELECTRICAL AND ALL STRUCTURAL OBSTRUCTIONS. IT IS THE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES TO AVOID CONFLICTS.
30. REFER TO ARCHITECTURAL REFLECTED CEILING AND ELECTRICAL LIGHTING DRAWINGS FOR CEILING DESCRIPTIONS AND HEIGHTS.
31. ALL VALVES SHALL HAVE A PERMANENTLY AFFIXED SIGN INDICATION ITS FUNCTION.
32. ALARMS SHALL BE OF SUFFICIENT INTENSITY TO BE CLEARLY AUDIBLE IN OVER BACKGROUND NOISE LEVELS WITH ALL INTERVENING DOORS CLOSED.
33. (4) 2-1/2" FIRE DEPARTMENT CONNECTIONS SHALL BE PROVIDED.
34. FIRE STOP ALL PENETRATIONS OF SMOKE/FIRE WALLS. FIRE STOPPING SHALL BE OF U.L. LISTED ASSEMBLY.
35. NOT ALL PIPING, VALVES AND APPURTENANCES ARE SHOWN ON PLANS. REFER TO PIPING RISER DIAGRAMS, DETAILS, AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
36. THE SYSTEM SHALL BE DESIGNED AND HYDRAULICALLY CALCULATED IN ACCORDANCE WITH NFPA 13 AND SPRINKLERS MANUFACTURER REQUIREMENTS.
37. ALL WIRING OF FLOW SWITCHES AND ANY FIRE PROTECTION DEVICES IS DONE BY ELECTRICAL SUBCONTRACTOR.
38. SEPARATE FIRE SPRINKLER PERMIT DRAWINGS SHALL BE SUBMITTED BY INSTALLING CONTRACTOR FOR REVIEW.

UNDERGROUND GENERAL NOTES

1. ALL UNDERGROUND SHALL BE INSTALLED BY A STATE OF FLORIDA MINIMUM CLASS 5 LICENSED UNDERGROUND CONTRACTOR.
2. ALL UNDERGROUND PIPING TO BE C-900 PVC CLASS 200 DR-14
3. ALL PVC PIPE TO BE MARKED W/DETECTABLE UNDERGROUND MARKING TAPE.
4. ALL ABOVE GROUND STEEL PIPING TO BE PAINTED FOR CORROSION PROTECTION.
5. ALL MATERIALS, TESTING, METHOD OF RESTRAINT & INSPECTION SHALL CONFORM TO THE REQUIREMENTS OF NFPA 13 & 24.
6. FITTING RESTRAINTS, THRUST BLOCKS AND RODDING SHALL CONFORM TO NFPA 24.
7. MINIMUM BURY DEPTH SHALL NOT BE LESS THAN 3'-0"
8. ALL WATER LINES FOR FIRE SPRINKLER SYSTEMS SHALL BE TESTED AT 200 PSI FOR TWO (2) HOURS MINIMUM.
9. ALL EXTERIOR MATERIALS SHALL BE PROPERLY PROTECTED AGAINST EXPOSURE.
10. ALL WIRING BY OTHERS.
11. UNDERGROUND PIPING SHALL BE FLUSHED AS PER NFPA 24 BEFORE CONNECTING TO THE OVERHEADS FIRE SPRINKLER SYSTEM PIPING.
12. COMPLY WITH ALL LOCAL CODE REQUIREMENTS PRIOR CONNECTION TO THE FIRE SERVICE WATER SYSTEM.

ABBREVIATIONS

ABV	ABOVE
APPROX	APPROXIMATELY
ASP	AUTOMATIC STANDPIPE
ASSY	ASSEMBLY
BFF	BELOW FINISHED FLOOR
BFV	BUTTERFLY VALVE
CONT	CONTINUATION
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DIPAS	DOUBLD INTERLOCK PRE-ACTION SYSTEM
DN	DOWN
EL	ELEVATION
FCA	FLOOR CONTROL ASSEMBLY
PRFCA	PRESSURE REDUCING FLOOR CONTROL ASSEMBLY
FDC	FIRE DEPARTMENT CONNECTION
FHV	2-1/2" FIRE HOSE VALVE
FHVC	2-1/2" FIRE HOSE VALVE IN CABINET
FS	FLOW SWITCH
GPM	GALLONS PER MINUTE
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
POC	POINT OF CONNECTION
PRHV	PRESSURE REDUCING HOSE VALVE
PRHVC	PRESSURE REDUCING HOSE VALVE IN CABINET
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
RM	ROOM
SPCA	STANDPIPE CONTROL ASSEMBLY
SPR	SPRINKLER
TYP	TYPICAL
UG	UNDERGROUND
RN	RISER NIPPLE

FIRE PROTECTION DATA

LIGHT HAZARD OCCUPANCY CLASSIFICATION (L.H.)	
OCCUPANCY CLASSIFICATION:	LIGHT HAZARD
SYSTEM TYPE:	WET PIPE
DESIGN DENSITY:	.10 GPM/SQ.FT.
HYDRAULIC REMOTE AREA:	1500 SQ.FT. UNLESS OTHERWISE NOTED
SPRINKLER ORIFICE SIZE:	1/2" UNLESS OTHERWISE NOTED
DURATION OF SUPPLY:	30 MIN.
MAX. COVERAGE./SPRINKLER HEAD:	STANDARD COVERAGE HEADS: PENDENT AND UPRIGHT SPRINKLER HEADS, MAXIMUM PROTECTION SHALL BE 225 SQ. FT. (MAXIMUM SPACING SHALL BE 15'-0" AND MINIMUM SPACING SHALL BE 6'-0") EXTENDED COVERAGE SPRINKLER HEADS: PENDENT/ UPRIGHT SPRINKLER HEADS, MAXIMUM PROTECTION SHALL BE 324 SQ. FT. (MAXIMUM SPACING SHALL BE 18'-0" AND MINIMUM SPACING SHALL BE 9'-0" FOR PENDENTS AND 8'-0" FOR UPRIGHTS)
HOSE STREAM ALLOWANCE:	100 GPM
ORDINARY HAZARD GROUP I OCCUPANCY CLASSIFICATION (O.H.1)	
OCCUPANCY CLASSIFICATION:	ORDINARY HAZARD GROUP I
SYSTEM TYPE:	WET PIPE
DESIGN DENSITY:	.15 GPM/SQ.FT.
HYDRAULIC REMOTE AREA:	1500 SQ.FT. UNLESS OTHERWISE NOTED
SPRINKLER ORIFICE SIZE:	1/2" UNLESS OTHERWISE NOTED
DURATION OF SUPPLY:	60 MIN.
MAX. COVERAGE./SPRINKLER HEAD:	STANDARD COVERAGE HEADS: PENDENT AND UPRIGHT SPRINKLER HEADS, MAXIMUM PROTECTION SHALL BE 130 SQ. FT. (MAXIMUM SPACING SHALL BE 15'-0" AND MINIMUM SPACING SHALL BE 6'-0")
HOSE STREAM ALLOWANCE:	250 GPM
ORDINARY HAZARD GROUP II OCCUPANCY CLASSIFICATION (O.H.2)	
OCCUPANCY CLASSIFICATION:	ORDINARY HAZARD GROUP II
SYSTEM TYPE:	WET PIPE
DESIGN DENSITY:	.20 GPM/SQ.FT.
HYDRAULIC REMOTE AREA:	1500 SQ.FT. UNLESS OTHERWISE NOTED
SPRINKLER ORIFICE SIZE:	1/2" UNLESS OTHERWISE NOTED
DURATION OF SUPPLY:	60 MIN.
MAX. COVERAGE./SPRINKLER HEAD:	STANDARD COVERAGE HEADS: PENDENT AND UPRIGHT SPRINKLER HEADS, MAXIMUM PROTECTION SHALL BE 130 SQ. FT. (MAXIMUM SPACING SHALL BE 15'-0" AND MINIMUM SPACING SHALL BE 6'-0")
HOSE STREAM ALLOWANCE:	250 GPM
EXTRA HAZARD GROUP I OCCUPANCY (EH1)	
OCCUPANCY CLASSIFICATION:	EXTRA HAZARD GROUP 1
SYSTEM TYPE:	WET PIPE
DESIGN DENSITY:	.30 GPM/SQ.FT.
HYDRAULIC REMOTE AREA:	2500 SQ.FT. UNLESS OTHERWISE NOTED
SPRINKLER ORIFICE SIZE:	1/2" UNLESS OTHERWISE NOTED
DURATION OF SUPPLY:	90 MIN.
MAX. COVERAGE./SPRINKLER HEAD:	MAXIMUM PROTECTION SHALL BE 100 SQ.FT. (MAXIMUM SPACING SHALL BE 12'-0" AND MINIMUM SPACING SHALL BE 6'-0")
HOSE STREAM ALLOWANCE:	500 GPM

Riviera Beach
see what's beneath the surface

Hydrant Details

Hydrant ID: 5-0048
Address: 2024 Avenue S, West Palm Beach, FL, 33404, US
Location Description:2075 AVE S

Manufacture	Model	Model Year	Size
Mueller	A-326	1997	5 1/4"
Barrel Type	Cap Color	Open Direction	Isolation Valve
Dry	Red	Right	Yes

Fire Flow Test Details

Date of Fire Flow	Operational Status	Port Diameter
04/22/2025 02:37:47 PM	OK	2.5
Static Pressure	Residual Pressure	Pitot Pressure
50	40	30.00

Flow Time	Flow GPM	Flow Base	Gallons Used
5.00	924.00	1672.00	4620.00
Lubricated	Chains Needed	Replaced Cap	Gasket Needed
Yes	No	No	No

Comment:Flow tested and re-painted Clow fire hydrant

City of Riviera Beach, Utility Special District
600 West Blue Heron Blvd, Riviera Beach, Florida 33404
Office: 561-845-4185, Web: www.rivierabeach.org

FIRE HYDRANT FLOW TEST DATA

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

ARCHITECT OF RECORD

PGAL, Inc.
791 Park of Commerce Blvd.
Suite 400
Boca Raton, FL 33487
T 561 988 4002
www.pgal.com

CONSTRUCTION MANAGER/BUILDER

CORE CONSTRUCTION
1641 Worthington Rd
West Palm Beach
FL 33409

PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

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600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL REG. NO. 79247YS

DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

CMTA
A LEIDOS Company
4 Harvard Cir. Suite 600 | West Palm Beach, FL 33409
561.688.6575 | cmta.com

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

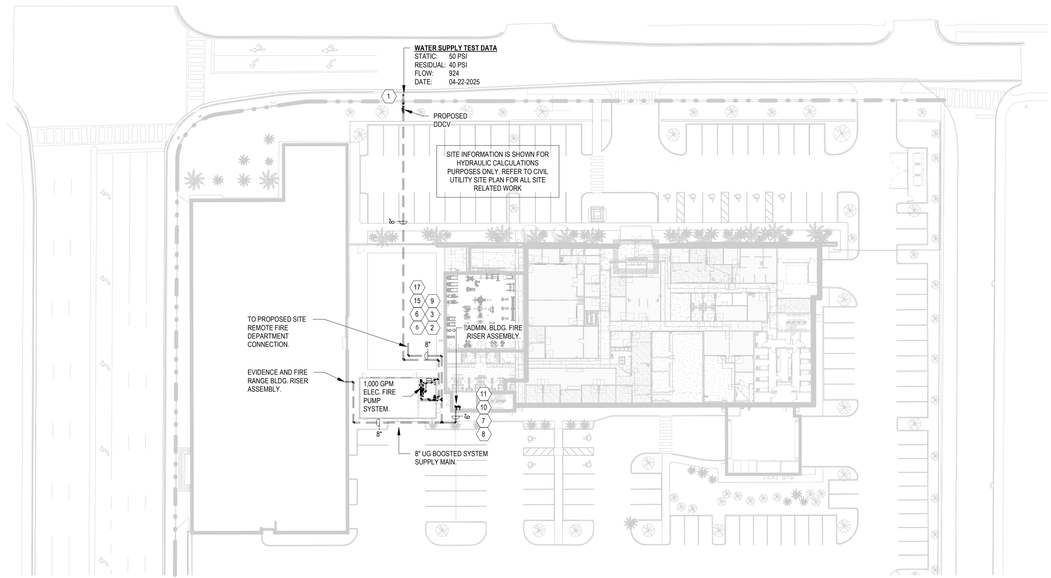
PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
GENERAL NOTES - FIRE PROTECTION

SHEET NUMBER
F0.01

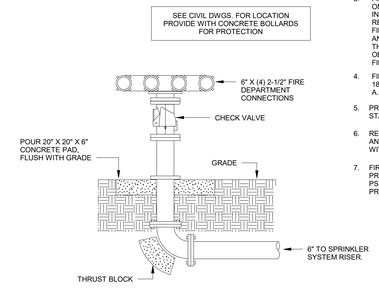
FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/RBPD_MEPF_R24.rvt
DATE STAMP: 10/23/2025 9:41:14 AM



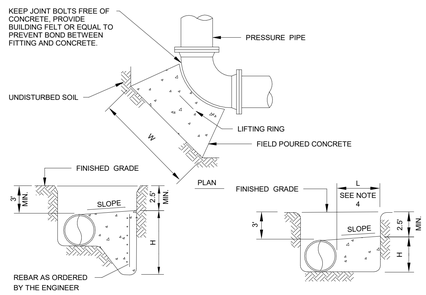
1 SITE PLAN - FIRE PROTECTION
1" = 40'-0"

FDC GENERAL NOTES

1. FIRE DEPARTMENT CONNECTION SHALL HAVE RAISED OR ENGRAVED 1" LETTERS STATING "AUTOSPRK" ON FITTING. SEE CIVIL FOR FDC REGULATORY TRAFFIC SIGN.
2. PROVIDE FIRE DEPARTMENT CONNECTION WITH A MINIMUM CLEARANCE OF 7-1/2" TO THE FRONT AND TO THE SIDES.
3. FIRE DEPARTMENT CONNECTIONS (FDC) SHALL BE LOCATED ON THE STREET SIDE OF BUILDINGS, FULLY VISIBLE, A SIGN INDICATING WHAT BUILDING(S) THEY PROTECT AND RECOGNIZABLE FROM THE STREET OR NEAREST POINT OF FIRE DEPARTMENT ACCESSIBILITY, AND SHALL BE LOCATED AND ARRANGED SO THAT HOSE LINES CANBE ATTACHED TO THE INLETS WITHOUT INTERFERENCE FROMNEARBY OBJECTS, INCLUDING BUILDINGS, FENCES, POST, OR OTHER FIRE DEPARTMENT CONNECTIONS.
4. FIRE DEPARTMENT CONNECTION SHALL NOT BE LESS THAN 18" FROM A.F.F. AND NOT EXCEED MORE THAN 36" FROM A.F.F.
5. PROVIDE SIGN 12" WIDE X 18" HIGH MOUNTED 7'-0" A.F.F. STATING NO PARKING - FIRE DEPARTMENT CONNECTION.
6. REFER TO CIVIL SITE DRAWINGS FOR REQUIRED BUILDING # AND FDOT REGULATORY SIGNAGE. SIGNAGE SHALL COMPLY WITH NFPA 24, 2019 EDITION.
7. FIRE DEPARTMENT CONNECTION MUST BE PRESSURE TESTED AT NOT LESS THAN 200 PSI FOR 2 HOURS WITH A ZERO DROP IN PRESSURE.



2 FIRE DEPARTMENT CONECTION DETAIL
N.T.S.



ALTERNATE SECTION SECTION

PIPE SIZE INCH	DEFLECTION ANGLE									
	11-1/4"		22-1/2"		45°		TEE/PLUG		90°	
	THRUST BLOCK DIMINSIONS - FEET									
	H	W	H	W	H	W	H	W	H	W
6	1'-0"	1'-0"	1'-0"	1'-6"	1'-6"	2'-6"	1'-6"	3'-0"	2'-0"	3'-6"
8	1'-0"	1'-6"	1'-6"	2'-6"	2'-0"	3'-6"	2.5	3'-6"	3'-0"	4'-0"
10	1'-0"	2'-0"	1'-6"	3'-0"	2'-6"	4'-0"	3'-0"	4'-6"	3'-6"	5'-0"
12	1'-6"	2'-6"	2'-6"	3'-6"	3'-0"	5'-0"	3'-6"	5'-6"	4'-0"	6'-6"
16	2'-6"	4'-0"	3'-6"	5'-6"	5'-0"	7'-0"	5'-6"	8'-0"	6'-6"	9'-0"
20	3'-0"	5'-6"	4.5	6'-6"	6'-0"	8'-6"	6'-6"	9'-6"	7.5	11'-0"
24	3'-6"	6'-0"	5'-0"	8'-0"	7'-0"	9'-6"	7'-6"	11'-6"	9'-0"	12'-6"

NOTES:

1. TEST PRESSURE FOR 6" THROUGH 12" IS 100 psi.
2. TEST PRESSURE FOR 16" THROUGH 24" IS 150 psi.
3. THRUST BLOCKS ARE DESIGNED FOR A MINIMUM 3' OF COVER OVER THE PIPE. IF LESS COVER EXISTS, BLOCKS SHALL BE ENLARGED AS DIRECTED BY THE ENGINEER.
4. L = 3' MAXIMUM FOR ROADWAYS - POUR TO UNDISTURBED SOIL.

3 THRUST BLOCK DETAIL
N.T.S.

CLIENT

CITY OF RIVIERA BEACH
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DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

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PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

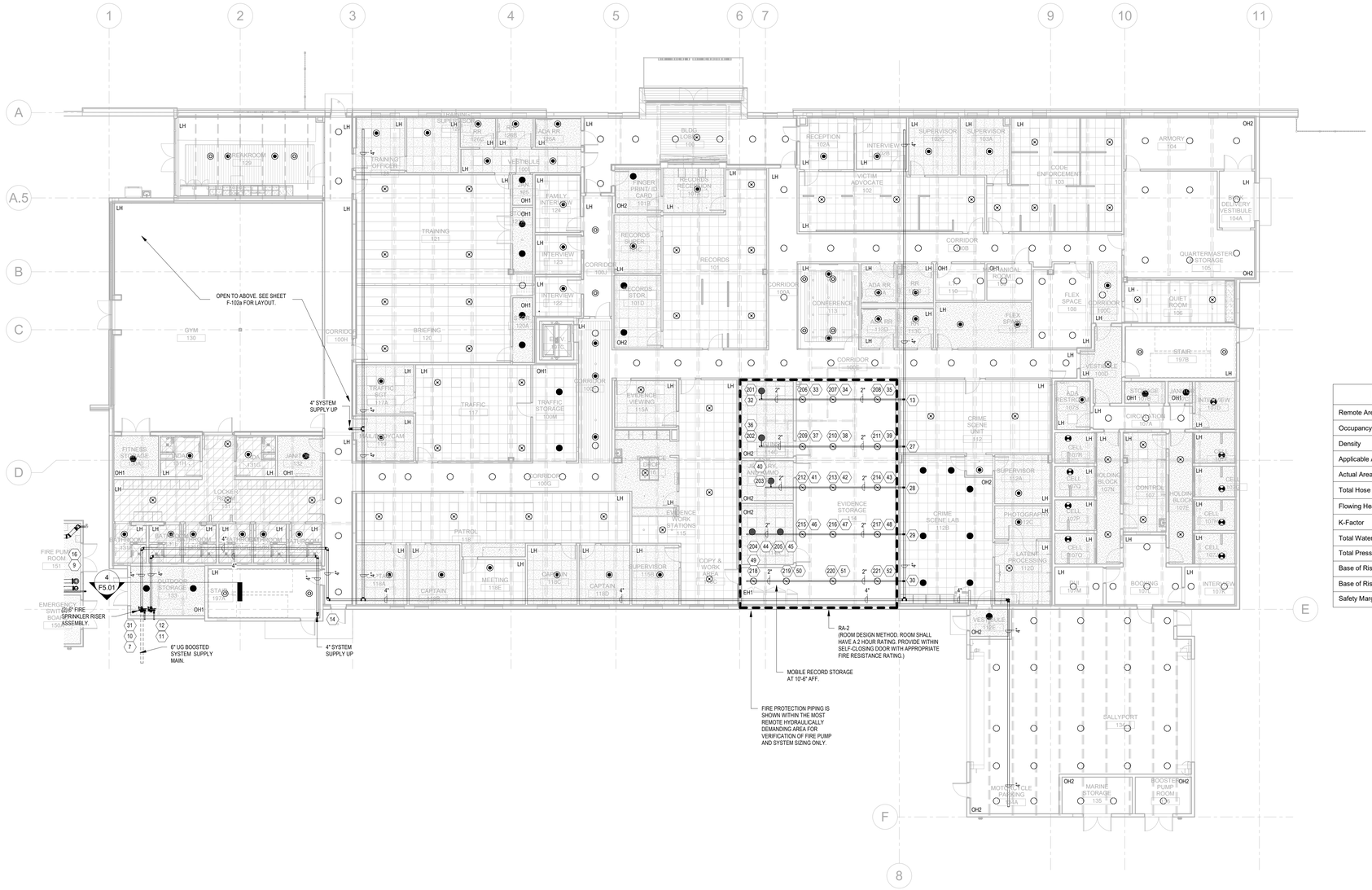
PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
SITE PLAN - FIRE PROTECTION

SHEET NUMBER
F0.10

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/RBPD_MEPF_R24.rvt
DATE STAMP: 10/23/2025 9:41:22 AM



Hydraulic Information

Remote Area Name	RA-2
Occupancy Classification	Extra Hazard Group 1
Density	0.30 GPM
Applicable Area	2500 SF
Actual Area	1567 SF
Total Hose Streams	500.00 GPM
Flowing Heads	21
K-Factor	5.6
Total Water Required	1148.29 GPM
Total Pressure Required	15.89 psi
Base of Riser	648.29 GPM
Base of Riser	67.84 psi
Safety Margin	+19.17 (54.68%)

1ST FLOOR PLAN - FIRE PROTECTION 3/32" = 1'-0" (1)

FILE NAME: Autodesk Docs://_1007657.00_-_CORE_-_City_of_Riviera_Beach_D/RBPD_MEPF_R24.rvt
DATE STAMP: 10/23/2025 9:41:55 AM

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DRAWING HISTORY

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PROJECT STATUS

90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER

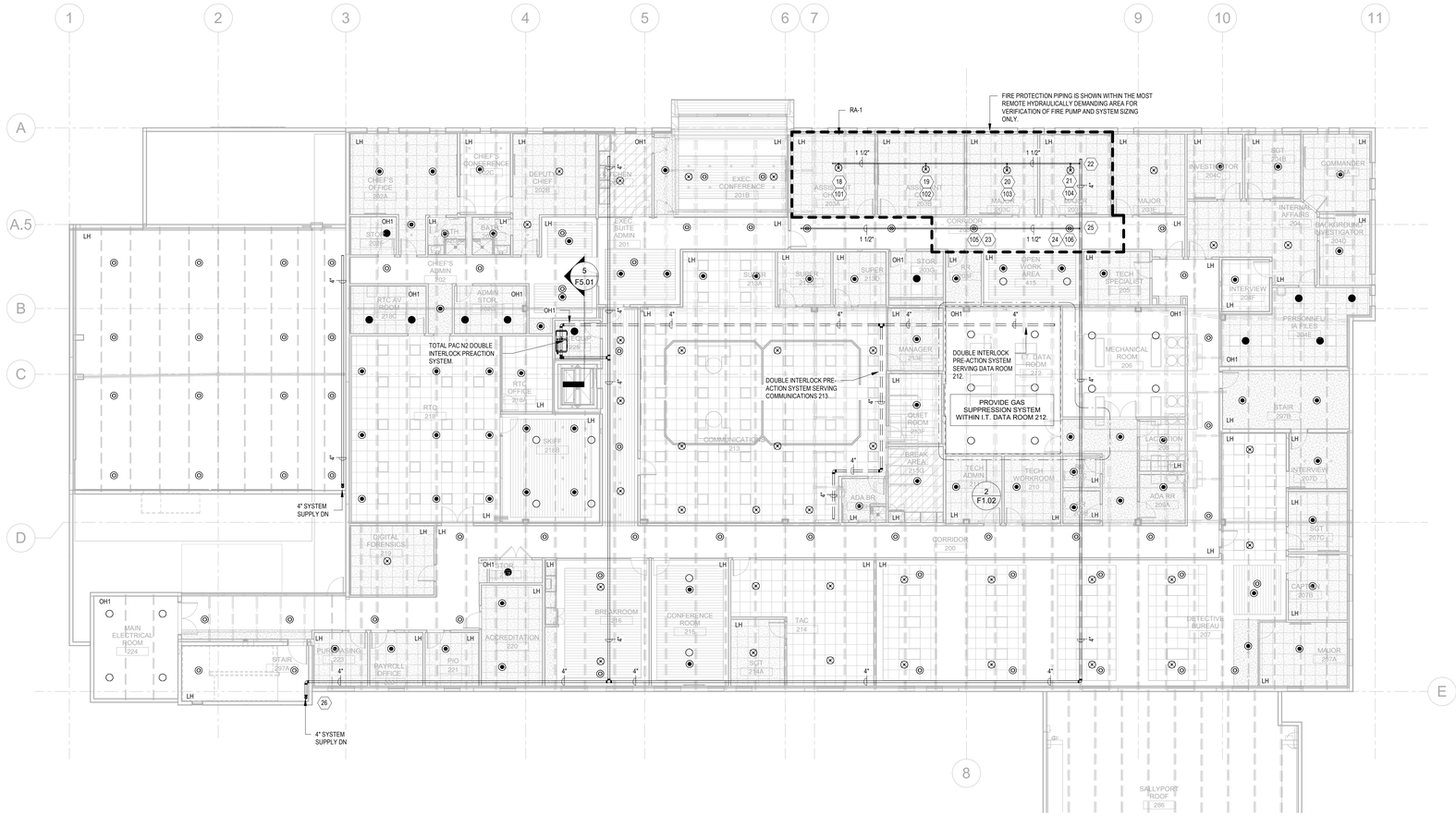
1007657.00

SHEET TITLE

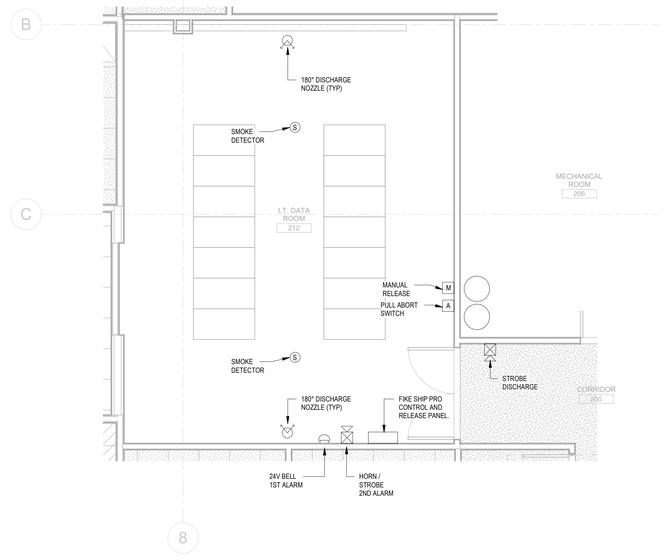
1ST FLOOR PLAN - ADMIN - FIRE PROTECTION

SHEET NUMBER

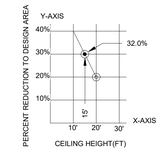
F1.01



2ND FLOOR PLAN - FIRE PROTECTION 3/32" = 1'-0" (1)



CHEMICAL AGENT SYSTEM - FIRE PROTECTION 1/4" = 1'-0" (2)



NOTE: $Y=\frac{-3X}{2}+55$

FOR CEILING HEIGHT > 10ft & < 20ft, $Y=\frac{-3(15)}{2}+55$

FOR CEILING HEIGHT < 10ft Y=40% Design Area Reduction

FOR CEILING HEIGHT > 20ft Y= 0%

15'-0" CEILING = 32.0% DESIGN AREA REDUCTION

1500 SQ/FT. x .32 = 480.0 SQ/FT. DESIGN AREA REDUCTION

1500 - 480.0 = 1,020.0 SQ/FT. MINIMUM HYDRAULIC DESIGN AREA

TOTAL HYDRAULIC DESIGN AREA = 1,020.0 SQ/FT MIN

DESIGN REDUCTION TABLE 19.3.3.2.3

RA-1

Hydraulic Information	
Remote Area Name	RA-1
Occupancy Classification	Light Hazard
Density	0.10 GPM
Applicable Area	1500 SF
Actual Area	1116 SF
Total Hose Streams	100.00 GPM
Flowing Heads	6
K-Factor	11.2
Total Water Required	330.55 GPM
Total Pressure Required	-15.36 psi
Base of Riser	230.55 GPM
Base of Riser	40.48 psi
Safety Margin	+63.87 (131.67%)

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DRAWING HISTORY

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A	4/4/2025	100% Design Development
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90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

1007657.00

SHEET TITLE

2ND FLOOR PLAN - ADMIN - FIRE PROTECTION

SHEET NUMBER

F1.02

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/RBPD_MEPF_R24.rvt
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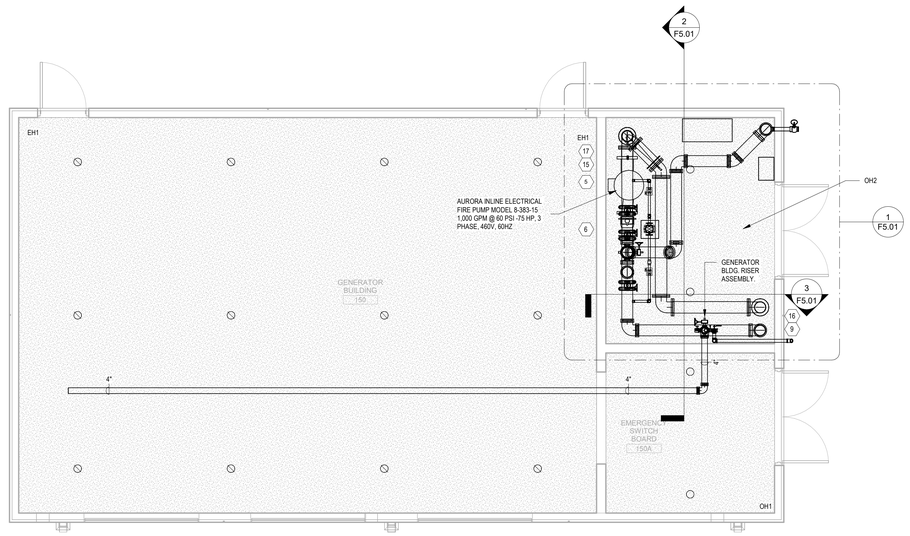

GENERATOR BUILDING FLOOR PLAN - FIRE PROTECTION 1/4" = 1'-0" (1)

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/RBPD_MEPF_R24.rvt
DATE STAMP: 10/23/2025 9:42:34 AM

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DRAWING HISTORY

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PROJECT STATUS

90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE

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PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

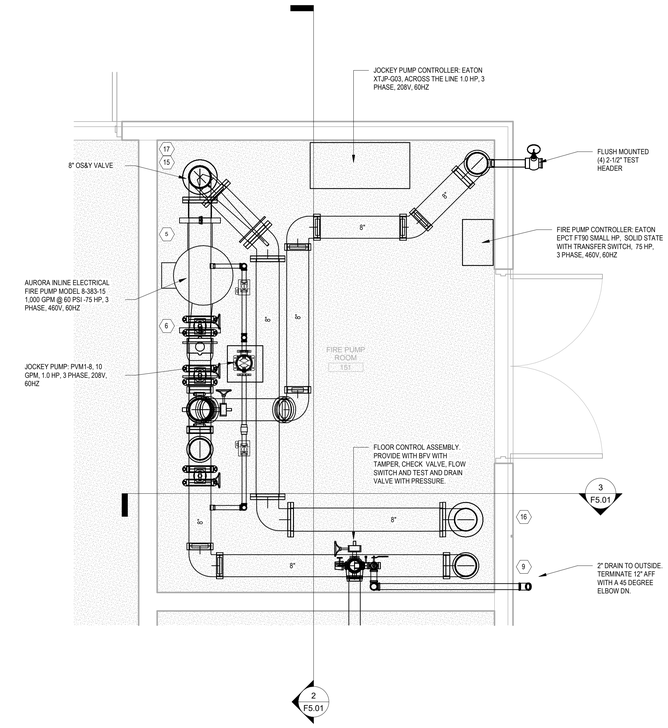
1007657.00

SHEET TITLE

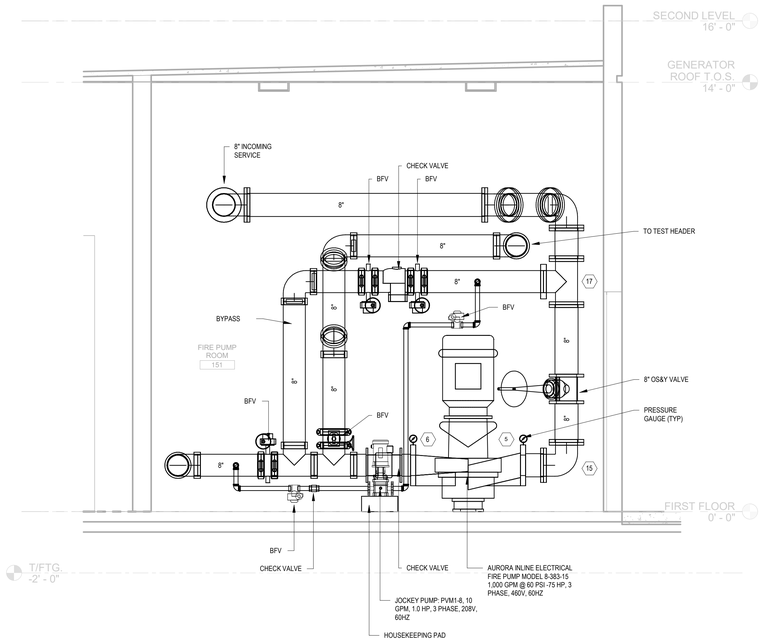
GENERATOR BUILDING FLOOR PLAN - FIRE PROTECTION

SHEET NUMBER

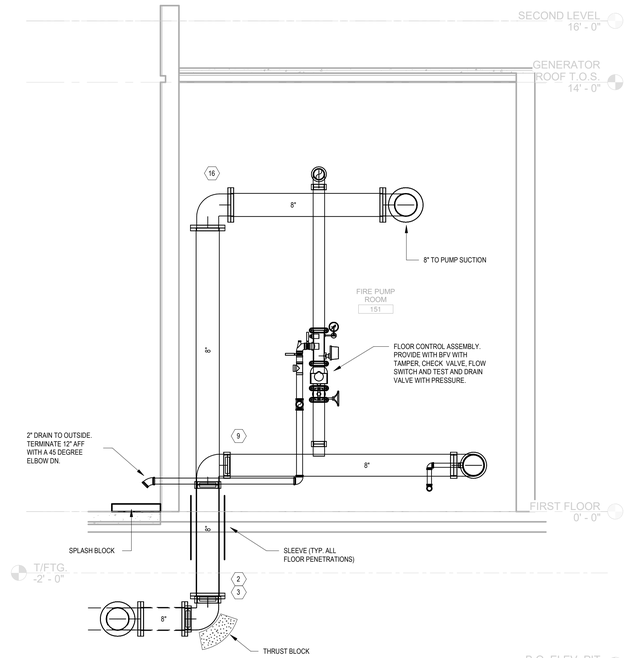
F1.05



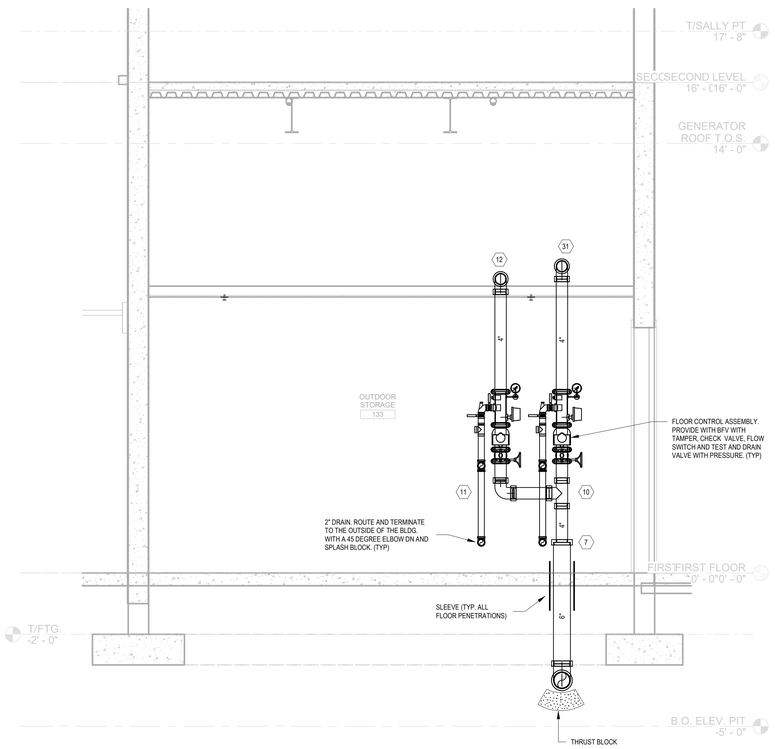
1 ENLARGED FIRE PUMP ROOM - FIRE PROTECTION
1/2" = 1'-0"



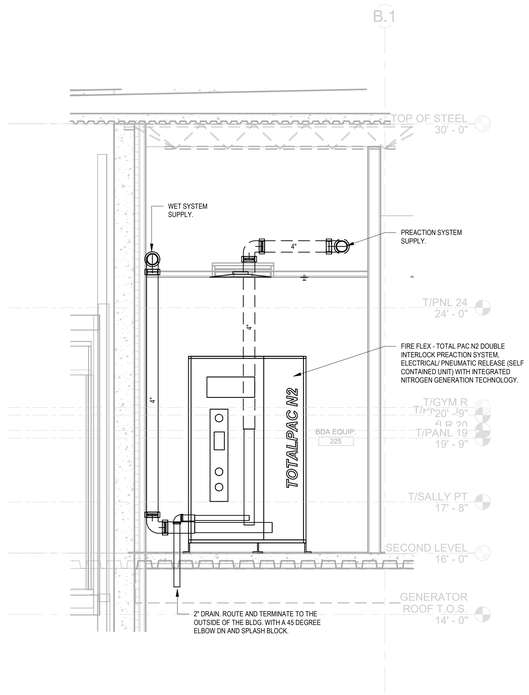
2 FIRE PUMP SECTION DETAIL
1/2" = 1'-0"



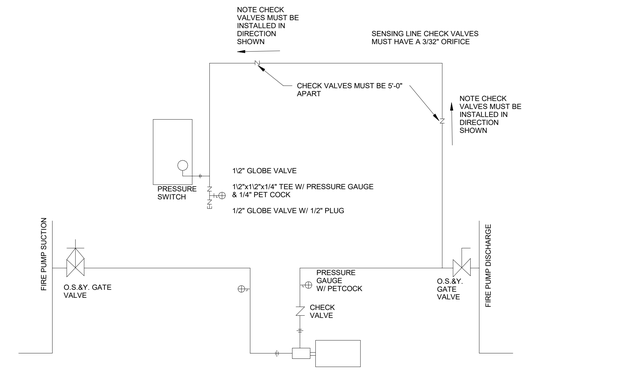
3 GENERATOR BLDG. FIRE RISER ASSEMBLY DETAIL
1/2" = 1'-0"



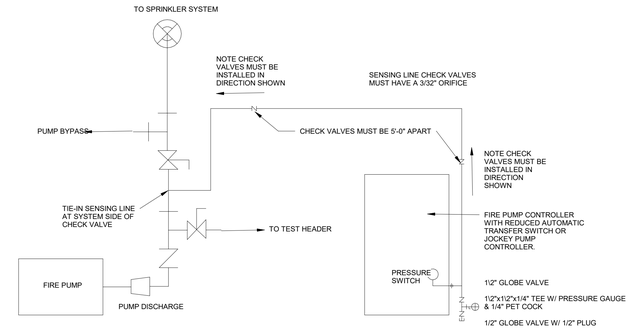
4 ADMIN. BLDG. FIRE RISER ASSEMBLY DETAIL
1/2" = 1'-0"



5 DOUBLE INTERLOCK PRE-ACTION VALVE CABINET
1/2" = 1'-0"



6 JOCKEY PUMP CONTROLLER DETAIL
N.T.S.



7 FIRE PUMP CONTROLLER DETAIL
N.T.S.

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DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
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E	10/14/2025	90% Construction Documents/Permit Set

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PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
FIRE PUMP DETAILS - FIRE PROTECTION

SHEET NUMBER
F5.01

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/RBPD_MEPF_R24.rvt
DATE STAMP: 10/23/2025 9:42:47 AM

NFPA 13 TABLE 17.4.2.1(a) AND SECTIONS 17.4.3.3 AND 17.4.3.4.1

NFPA SPACING REQUIREMENTS HANGER LOCATION DETAIL

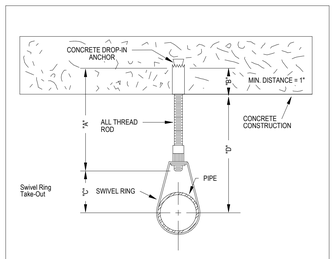
PIPE SIZE	A	B*	C
1"	3'-0" MAX.	12'-0" MAX.	3" MIN.
1-1/4"	4'-0" MAX.	12'-0" MAX.	3" MIN.
1-1/2"-8"	5'-0" MAX.	15'-0" MAX.	3" MIN.



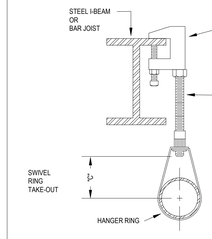
* MAXIMUM HANGER SPACING FOR STEEL PIPE

NOTES:

THE CUMULATIVE HORIZONTAL LENGTH OF AN UNSUPPORTED ARMOVER TO A SPRINKLER OR SPRINKLER DROP SHALL NOT EXCEED 24".

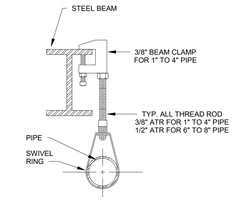


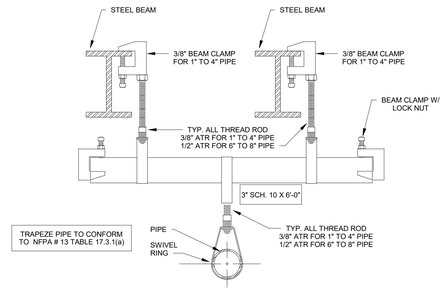
Pipe Size	Rod Size	Type of Fastener	Min. 'C' Dim.	Max. 'C' Dim.
3/4"	3/8"	1 - 3/8 x 1 17/32" DROP-IN	1/2"	1 5/8"
1"			5/8"	1 3/4"
1 1/4"			13/16"	1 7/8"
1 1/2"			15/16"	2"
2"			1 3/16"	2 3/8"
2 1/2"			1 7/16"	2 3/4"
3"			1 3/4"	3 1/4"
3 1/2"			2"	3 5/8"
4"			2 1/4"	3 7/8"
5"	1/2"	1 - 1/2 x 2 1/32" DROP-IN	2 3/4"	4 3/4"
6"			3 5/16"	5 1/2"
8"			N/A	N/A



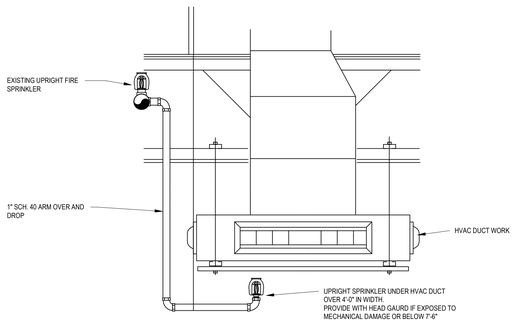
Pipe Size	Rod Size		Min. 'C' Dim.	Max. 'C' Dim.
3/4"	3/8"		1/2"	1 5/8"
1"			5/8"	1 3/4"
1 1/4"			13/16"	1 7/8"
1 1/2"			15/16"	2"
2"			1 3/16"	2 3/8"
2 1/2"			1 7/16"	2 3/4"
3"			1 3/4"	3 1/4"
3 1/2"			2"	3 5/8"
4"			2 1/4"	3 7/8"
5"	1/2"		2 3/4"	4 3/4"
6"			3 5/16"	5 1/2"
8"			4 5/16"	6 3/4"

1 HANGER LOCATION DETAIL
N.T.S.

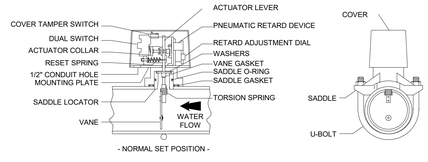




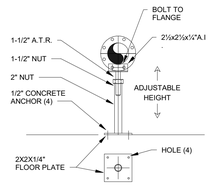
2 HANGER PIPE SUPPORT DETAIL
N.T.S.



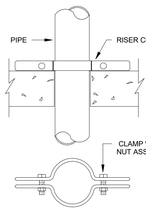
3 SPRINKLER UNDER DUCT DETAIL
NTS



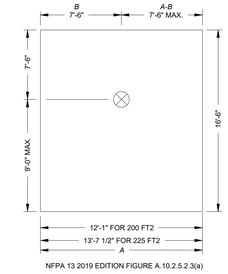
4 FLOW SWITCH DETAIL
N.T.S.



5 PIPE SUPPORT DETAIL
N.T.S.

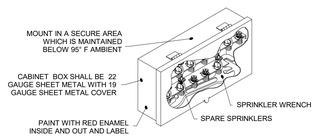


6 RISER CLAMP DETAIL
N.T.S.



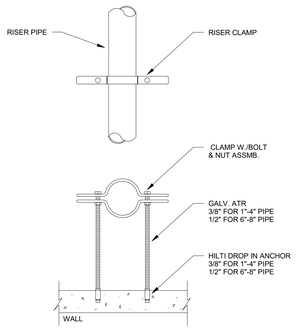
NFPA 13 2019 EDITION FIGURE A.10.2.5.2.3(a)

7 SMALL ROOM RULE DETAIL
N.T.S.



FACILITIES HAVING UNDER 300 SPRINKLERS - NO FEWER THAN 6 SPARE SPRINKLERS IN STOCK
FACILITIES HAVING 300 - 1000 SPRINKLERS - NO FEWER THAN 12 SPARE SPRINKLERS IN STOCK
FACILITIES HAVING OVER 1000 SPRINKLERS - NO FEWER THAN 24 SPARE SPRINKLERS IN STOCK

8 SPARE HEAD CABINET DETAIL
N.T.S.



9 VERTICAL PIPE SUPPORT DETAIL
N.T.S.

FILE NAME: Autodesk Docs://_1007657.00 - CORE - City of Riviera Beach D/RBPD_MEPF_R24.rvt
DATE STAMP: 10/23/2025 9:42:58 AM

CLIENT

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REGISTRATION

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DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

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PROJECT STATUS

90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

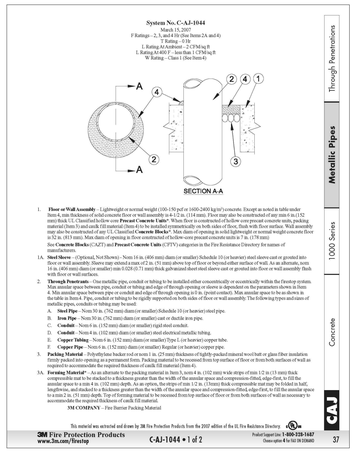
1007657.00

SHEET TITLE

DETAILS - FIRE PROTECTION

SHEET NUMBER

F5.02



System No. C-AJ-1044
March 15, 2007
F Ratings — 1 and 2 HR (See Items 2A and 4)
T Rating - 0 HR
L Rating At Ambient - 2 CFM/sq ft
L Rating At 400 F - less than 1 CFM/sq ft
W Rating – Class 1 (See Item 4)

SECTION A-A

1. **Floor or Wall Assembly** – Lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Except as noted in table under Item 4, min thickness of solid concrete floor or wall assembly is 4-1/2 in. (114 mm). Floor may also be constructed of any min 6 in (152 mm) thick UL Classified hollow core **Precast Concrete Units***. When floor is constructed of hollow core precast concrete units, packing material (Item 3) and caulk fill material (Item 4) to be installed symmetrically on both sides of floor, flush with floor surface. Wall assembly may also be constructed of any UL Classified **Concrete Blocks***. Min diam of opening in solid lightweight or normal weight concrete floor is 52 in. (813 mm). Max diam of opening in floor constructed of hollow core precast concrete units is 7 in. (178 mm).

   See **Concrete Blocks** (CAZT) and **Precast Concrete Units** (CFTV) categories in the Fire Resistance Directory for names of manufacturers.

1A. **Steel Sleeve** – (Optional, Not Shown) - Nom 16 in. (406 mm) diam (or smaller) Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly. Sleeve may extend a max of 2 in. (51 mm) above top of floor or beyond either surface of wall. As an alternate, nom 16 in. (406 mm) diam (or smaller) min 0.028 (0.71 mm) thick galvanized sheet steel sleeve cast or grouted into floor or wall assembly flush with floor or wall surfaces.

2. **Through Penetrants** – One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (0 mm) (point contact) to max 2 in. (51 mm). At point contact location between pipe or conduit and edge of firestop opening is 0 in. (point contact). Max annular space to be as shown in the table in Item 4. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used.

   A. **Steel Pipe** – Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. **Iron Pipe** – Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
   C. **Conduit** – Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit.
   D. **Conduit** – Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.
   E. **Copper Tubing** – Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tube.
   F. **Copper Pipe** – Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. **Packing Material** – Polyethylene backer rod or nom 1 in. (25 mm) thickness of tightly-packed mineral wool batt or glass fiber insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of caulk fill material (Item 4).

3A. **Forming Material*** – As an alternate to the packing material in Item 3, nom 4 in. (102 mm) wide strips of min 1/2 in (13 mm) thick compressible mat to be stacked to a thickness greater than the width of the annular space and compression-fitted, edge-first, to fill the annular space. Strips of mat to be cut lengthwise, as required, to fit annular space. Mat to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of caulk fill material.

   3M COMPANY – Fire Barrier Packing Material

System No. C-AJ-1044 *continued*

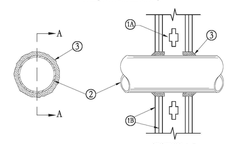
4. **FILL Void or Cavity Material* – Caulk, Sealant** – Applied to fill the annular space flush with top surface of floor. In wall assemblies, required caulk thickness to be installed symmetrically on both sides of wall, flush with wall surface. At point contact location between penetrant and sleeve or between penetrant and concrete, a min 1/4 in. (6 mm) diam bead of caulk shall be applied at top surface of floor and at both sides of wall. The hourly F Ratings and the min required caulk thicknesses are dependent upon a number of parameters, as shown in the following table:

Min Floor or Wall Thkns In. (mm)	Nom Pipe Tube or Conduit Diam In. (mm)	Max Annular Space In. (mm)	Min Caulk Thkns In. (mm)	F Rating Hr
2-1/2 (64)	1/2-2 (13-505)	1/8 (3.5)	1/2 (13)	2
2-1/2 (64)	1/2-2 (13-505)	3/4 (.03)	1 (25)	2
4-1/2 (114)	1/2-6 (13-152)	1/8 (3.5)	1/8(0.6)	2
4-1/2 (114)	1/2-2 (13-505)	1/4 (.52)	1/2 (13)	3
4-1/2 (114)	1/2-2 (13-505)	3/4 (.03)	1 (25)	3
4-1/2 (114)	1/2-2 (13-505)	1/4 (.52)	1/2 (13)	3
4-1/2 (114)	1/2-2 (13-505)	3/4 (.03)	1 (25)	3
4-1/2 (114)	2-1/2-6 (64-152)	2 (51)	2 (51)	3
5-1/2 (140)	1/2-6 (13-152)	1-3/8 (35)	1 (25)(3)	4

(a) Min 2 in. (51 mm) thickness of mineral wool batt insulation or forming material (Item 3A) required in annular space.
(b) Min 1 in. (25 mm) thickness of mineral wool batt insulation required in annular space on both sides of floor or wall assembly. Min 1 in. (25 mm) thickness of caulk to be installed flush with each surface of floor or wall assembly.
   3M COMPANY – CP 25WB+ or FB-3000 WT.
   (*Item "W" Rating applies only when FB-3000 WT is used.)

*Bearing the UL Classification Marking

System No. W-L-1001
June 15, 2005
F Ratings – 1, 2, 3 and 4 HR (See Items 2 and 5)
T Ratings – 0, 1, 2, 3, and 4 HR (See Item 5)
L Rating At Ambient – less than 1 CFM/sq ft
L Rating At 400 F – less than 1 CFM/sq ft



SECTION A-A

1. **Wall Assembly** – The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/steel stud assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs** – Well framing may consist of either wood studs (nom 2 hr fire-rated assemblies) or steel channel studs. Wood studs to consist of nom 2 in. (51 mm) wide by 4 in. (102 mm) deep (or wider) members spaced 24 in. (610 mm) OC. Runner tracks for floor and ceiling and cross braces, Steel studs to be nom 3-5/8 in. (92 mm) wide by 1-5/8 in. (35 mm) deep channels spaced nom 24 in. (610 mm) OC.
   B. **Gypsum Board*** – Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm).
2. **Through Penetrant** – One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (0 mm) (point contact) to max 2 in. (51 mm). At point contact location, pipe to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used.
   A. **Steel Pipe** – Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. **Iron Pipe** – Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipes, nom 12 in. (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
   C. **Conduit** – Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing
   D. **Copper Tubing** – Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing
   E. **Copper Pipe** – Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
   F. **Through Penetrating Product*** – **Flexible Metal Piping** – The following types of steel flexible metal gas piping may be used:
      1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Flanke covering on piping may or may not be removed on both sides of floor or wall assembly.
         OMEGA FLEX INC
      2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Flanke covering on piping may or may not be removed on both sides of floor or wall assembly.
         TITEFLEX CORP
         A RUNEX CO
      3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Flanke covering on piping may or may not be removed on both sides of floor or wall assembly.
         WARD MFG INC

System No. W-L-1001 *continued*

3. **FILL Void or Cavity Material* – Caulk or Sealant** – Min 5/8 :1-1/4, 1-7/8 and 2-1/2 in. (16, 32, 48 and 64 mm) thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the type of pipe or conduit and the hourly rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam In. (mm)	F Rating Hr	T Rating Hr
1 (25)	1 or 2	0+, 1 or 2
3 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
4 (152)	3 or 4	0
12 (305)	1 or 2	0

+When copper pipe is used,T Rating is 0 hr.
   3M COMPANY – CP 25WB+ caulk or FB-3000 WT sealant,

*Bearing the UL Classification Marking

1 UL PENETRATION DETAIL
N.T.S.

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REGISTRATION

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DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

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PROJECT STATUS

90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

1007657.00

SHEET TITLE

DETAILS - FIRE PROTECTION

SHEET NUMBER

F5.03

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/RBPD_MEPF_R24.rvt
DATE STAMP: 10/23/2025 9:43:03 AM

FIRE SPRINKLER HEAD SCHEDULE

SYMBOL	TEMP	RESPONSE	HAZARD	K-FACTOR	FINISH	MODEL/ SIN	STYLE	PLATE	SIZE	MANUFACTURER
●	155°	QUICK	LH/ OH	5.6	WHITE POLYESTER COATED	TY-FRB/ TY323	STANDARD COVERAGE PENDENT	2 PIECE	1/2"	TYCO
◉	155°	QUICK	LH/ OH	5.6	BRASS	RFII/ TY3531	STANDARD COVERAGE CONCEALED PENDENT	WHITE CONCEALED PLATE	1/2"	TYCO
○	155°	QUICK	LH/ OH	5.6	BRASS	TY-FRB/ TY313	STANDARD COVERAGE UPRIGHT	NONE	1/2"	TYCO
⃠	286°	STANDARD	ALL	5.6	BRASS	TYB/ TY315	STANDARD COVERAGE UPRIGHT	NONE	1/2"	TYCO
◓	165°	QUICK	ALL	5.6	WHITE	RAVEN/ TY3281	STANDARD COVERAGE PENDENT	NONE	1/2"	TYCO
⊗	160°	QUICK	LH	11.2	BRASS	ELOC/ TY5522	EXTENDED COVERAGE CONCEALED PENDENT	WHITE CONCEALED PLATE	3/4"	TYCO
◎	155°	QUICK	LH/ OH	11.2	BRASS	EC-11/ TY5137	EXTENDED COVERAGE UPRIGHT	NONE	3/4"	TYCO

NOTES:

1. FIRE PROTECTION CONTRACTOR SHALL COORDINATE ALL CONCEALED PLATE COLORS WITH ARCHITECT/ ARCHITECTURAL DRAWINGS. FINAL PLATE COLORS AND CUSTOM COLORS FOR EACH AREA AND INDIVIDUAL ROOMS SHALL BE APPROVED BY ARCHITECT PRIOR TO ORDERING.
2. ALL SPRINKLERS IN THE IN ALL STORAGE ROOM, MECHANICAL ROOMS, ELECTRICAL ROOMS AND UNDERNEATH STAIRS SHALL BE PROVIDED WITH IN LINE SPRINKLER HEAD GUARD - SPRINKGUARD ITEM # 201040. PROVIDE SIDEWALL SPRINKLER HEAD GUARD - SPRINKGUARD ITEM # 201252 FOR ALL SIDEWALL SPRINKLER HEADS.
3. ALL SPRINKLER HEADS SHALL BE CENTERED TO THE CEILING TILES UNLESS OTHERWISE NOTED.
4. ALIGN ALL SPRINKLER HEADS WITH LIGHTING AND DIFFUSERS.
5. PROVIDE ADDITIONAL SPRINKLER HEADS UNDER HVAC DUCT WORK EQUAL TO AND EXCEEDING 4' IN WIDTH. COORDINATE FINAL DUCT LOCATIONS WITH INSTALLING MECHANICAL CONTRACTOR.
6. PROVIDE INTERMEDIATE TEMPERATURE SPRINKLER HEADS ADJACENT TO ANY DIFFUSER WHERE THE DISTANCE REQUIREMENTS LISTED IN NFPA 13 TABLE 8.3.2.5 (A) ARE NOT FOLLOWED.

FILE NAME: Autodesk Docs://_1007657.00_-_CORE_-_City of Riviera Beach D/RBPD_MEPF_R24.rvt
DATE STAMP: 10/23/2025 9:43:08 AM

CLIENT

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DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
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PROJECT STATUS

90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

1007657.00

SHEET TITLE

SCHEDULES - FIRE PROTECTION

SHEET NUMBER

F6.01

CODE REFERENCE

- FLORIDA BUILDING CODE - PLUMBING - 8TH EDITION (2023)
- FLORIDA BUILDING CODE - FUEL GAS - 8TH EDITION (2023)
- FLORIDA BUILDING CODE - ACCESSIBILITY - 8TH EDITION (2023)
- FLORIDA BUILDING CODE - ENERGY CONSERVATION - 8TH EDITION (2023)

GENERAL NOTES

1. EACH CONTRACTOR, PROPOSER, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO INSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS TO AVOID CONFLICTS WITH ANY OTHER BUILDINGS SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS.
2. INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC. IN A LOCATION OR IN A MANNER WHICH WILL ALLOW FREEZING AND THE COLLECTION OF CONDENSATION THEREON. IF IN DOUBT, CONTACT THE ARCHITECT.
3. ADVISE ARCHITECT OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC.. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATIONS BY WRITTEN ADDENDUM.
4. DEVIATIONS FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ARCHITECT AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE.
5. OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY,COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.)
6. INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORD WITH MANUFACTURERS' RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INTENT IN CONTRACT DOCUMENTS, ADVISE THE ARCHITECT PRIOR TO INSTALLATION FOR CLARIFICATIONS.
7. ALL SYSTEMS, EQUIPMENT, AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT MEETING THIS CRITERION SHALL BE REMOVED AND REINSTALLED SATISFACTORILY. FINAL DETERMINATION OF THE ACCEPTABILITY OF THE QUALITY OF WORK RESIDES WITH THE ARCHITECT.
8. ALL WORK, MATERIALS, EQUIPMENT, ETC. SHALL BE FULLY GUARANTEED FOR ONE FULL CALENDAR YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AS DOCUMENTED BY THE ARCHITECT, UNLESS LONGER WARRANTY PERIODS FOR EQUIPMENT ARE SPECIFIED.
9. UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL EQUIPMENT AND/OR MATERIALS WITHIN OCCUPIED SPACES OR EXPOSED TO VIEW ON THE BUILDING EXTERIOR SHALL BE PRIMED AND FINISHED SO AS TO COMPLEMENT ADJACENT SURFACE, UNLESS OTHERWISE NOTED. COORDINATE WORK WITH ARCHITECT.
10. ALL ELECTRICAL COMPONENTS OR EQUIPMENT SHALL BE LABELED BY UNDERWRITER'S LABORATORIES OR OTHER APPROVED LISTING AGENCY. APPROVED AND LABELING OF INDIVIDUAL COMPONENTS ON AN ASSEMBLY IS NOT ACCEPTABLE AS MEETING THIS REQUIREMENT, UNLESS WAIVED BY THE ARCHITECT IN WRITING.
11. ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE OR SUB-SERVICE FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRIC LINES. VERIFY THE LOCATION, SIZE TYPE, ETC. OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENTS SHALL APPLY.
12. ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, SUPPORT FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES, EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT AND CONSENT OF THE OTHER TRADE, IN WRITING.
13. WHERE INTERRUPTING AN EXISTING UTILITY OR SERVICE DELIBERATELY OR ACCIDENTALLY THE RESPONSIBLE CONTRACTOR SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME PROVIDING PREMIUM TIME AS NEEDED.
14. WHERE PENETRATING NEW ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATION IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANYWAY. COORDINATE ALL SUCH PENETRATIONS WITH THE ROOFING INSTALLER/ARCHITECT.
15. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES, CASH CONTRIBUTIONS OR OTHER COSTS THAT THE UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (ELECTRIC, TELEPHONE, TELEVISION, ETC.)
16. DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ARCHITECT OR NOT SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
17. INTERRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR, UTILITY COMPANY, ARCHITECT, AND OWNER AS NECESSARY, WITH AT LEAST ONE WEEK IN ADVANCE OF ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN PARTIES MENTIONED, TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED TWO WEEKS IN ADVANCE, IN WRITING. IF UTILITY COMPANY REQUIRES A LONGER NOTIFICATION PERIOD, SO PROVIDE.
18. ALL WORK SHALL BE CONCEALED UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, OR REQUIRED TO BE EXPOSED. IF IN DOUBT, CONTACT THE ARCHITECT FOR CLARIFICATION PRIOR TO INSTALLING ANY SUCH WORK.
19. DO NOT SCALE FROM DRAWINGS, AS PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONED SUPPLIED TO THE CONTRACTOR.
20. IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTING CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS' CONVENIENCE AND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.
21. ALL WORK SHOWN ON DRAWINGS (EQUIPMENT, DUCTWORK, PIPING FIXTURES, RACEWAYS, WIRING, ETC.) ARE NEW, TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
22. ALL PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE. COORDINATION WITH ALL TRADES WILL BE REQUIRED.
23. REFER TO DOMESTIC WATER RISER DIAGRAM FOR LOCATIONS OF ALL VALVES AND ACCESSORIES TO BE INSTALLED.
24. WATER HAMMER ARRESTORS, TRAP PRIMERS, VALVES, ETC. SHALL BE ACCESSIBLE. PROVIDE ACCESS PANELS WHERE ANY ITEM IS INSTALLED IN AN INACCESSIBLE SPACE.
25. INSULATE HOT WATER PIPING IN ACCORDANCE WITH FLORIDA ENERGY EFFICIENCY CODE.
26. METALLIC PIPING SHALL BE INSTALLED IN FIRE RATED WALL. (TYPICAL)
27. SEAL ALL PIPING PENETRATIONS WITH NON-SHRINK MASTIC.
28. DOMESTIC WATER PIPING WITHIN 5 FEET OF THE BUILDING SEWER/DRAIN PIPING IS TO BE A MINIMUM OF 12 INCHES ABOVE THE HIGHEST POINT OF THE BUILDING SEWER/DRAIN PIPING AND THE PIPE MATERIALS MUST CONFORM TO THE FLORIDA BUILDING CODE 2023 - PLUMBING.
29. PLUMBING CONTRACTOR SHALL COORDINATE UNDERGROUND PIPING WITH BUILDING FOUNDATION.
30. WHERE PIPING PENETRATES FOOTING, REFER TO STRUCTURAL DRAWINGS FOR SLEEVING METHODS.
31. WHERE INVERT ELEVATIONS ARE HIGHER ON PLUMBING DRAWINGS, PLUMBING CONTRACTOR SHALL INSTALL PIPING AS PER THE PLUMBING CONTRACT DRAWINGS AND PROVIDE A 45° DROP TO MEET THE CIVIL ENGINEERS POINT OF CONNECTION. IF ANY CONFLICTS ARISE WHERE CIVIL ENGINEERS' POINT OF CONNECTIONS ARE SHALLOWER THAN ON THE PLUMBING CONTRACT DOCUMENTS, PLUMBING CONTRACTOR SHALL CONTACT THE ARCHITECT/ENGINEER.
32. SUPPLY AND TRAP WRAPS SHALL BE PROVIDED AT ADA LAVATORIES AND SINKS WHERE PIPING IS EXPOSED.
33. WHERE PIPING IS NEAR ROOF ACCESS HATCH CONTRACTOR SHALL ROUTE ALL PIPING TO CLEAR ALL LADDERS AND OPENINGS.
34. COORDINATE VENT THRU ROOF WITH ALL EQUIPMENT. WHERE PIPING IS WITHIN 10'-0" OF EQUIPMENT, LOUVERS ETC. VENT THRU ROOF SHALL BE MOVED TO MAINTAIN A 10'-0" CLEARANCE OF OUTSIDE AIR OPENING.
35. P-TRAPS INSTALLED ON ALL FLOOR DRAINS SHALL BE DEEP SEAL TRAPS.
36. PROVIDE ROUGH-IN AND FINAL CONNECTIONS FOR ALL PLUMBING UTILITIES AND SERVICES FOR EQUIPMENT PROVIDED BY OTHERS.
37. WATER HAMMER TO BE INSTALLED IN ALL QUICK CLOSING FIXTURES.
38. WHEN NONMETALLIC PIPE IS USED IN COMBINATION SYSTEMS UTILIZING STEEL PIPING INTERNALLY COATED WITH CORROSION INHIBITORS AND NONMETALLIC PIPING, THE STEEL PIPE COATING SHALL BE INVESTIGATED FOR COMPATIBILITY WITH THE NONMETALLIC PIPING BY A TESTING LABORATORY.
39. WHEN FABRICATING STEEL PIPE FOR A COMBINATION (CPVC-STEEL) SYSTEM, THE CUTTING OIL AND LUBRICANTS CAN CAUSE PERFORMANCE DEGRADATION OF THE CPVC PIPING. CUTTING OILS AND LUBRICANTS FOUND TO BE COMPATIBLE ARE AVAILABLE AND SHALL BE USED.
40. WHEN NONMETALLIC PIPE IS USED IN COMBINATION SYSTEMS UTILIZING STEEL PIPE THAT IS NOT INTERNALLY COATED WITH CHEMICAL CORROSION INHIBITORS, NO ADDITIONAL EVALUATIONS SHALL BE REQUIRED.
41. WHEN NONMETALLIC PIPE IS USED IN COMBINATION SYSTEMS UTILIZING STEEL PIPE, CUTTING OILS AND LUBRICANTS USED FOR FABRICATION OF THE STEEL PIPING SHALL BE COMPATIBLE WITH THE NONMETALLIC PIPE MATERIALS.
42. FIRE-STOPPING MATERIALS INTENDED FOR USE ON NONMETALLIC PIPING PENETRATIONS SHALL BE INVESTIGATED FOR COMPATIBILITY WITH THE NONMETALLIC PIPE MATERIALS.
43. ALL CPVC PIPING, FITTINGS AND SOLVENTS SHALL BE FROM A SINGLE MANUFACTURERS. MIXING OF MANUFACTURERS IS NOT ALLOWED OR PERMITTED.
44. CPVC PIPING INSTALLATION SHALL BE IN CONFORMANCE WITH MANUFACTURER'S SPECIFICATIONS AND GUIDELINES.
45. PROVIDE IDENTIFICATION (LABELING) FOR DOMESTIC ACCESSORIES HIDDEN ABOVE / BEHIND CEILING TILES AND ACCESS PANELS.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
APPROX	APPROXIMATELY
AP	ACCESS PANEL
ARCH	ARCHITECTURAL
AUX	AUXILIARY
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
BWV	BACK WATER VALVE
CD	CONDENSATE DRAIN
CO	CLEAN-OUT
COMB	COMBINATION
COND	CONDENSATE OR CONDENSER
CONT	CONTINUATION
CW	DOMESTIC COLD WATER
DN	DOWN
DWG	DRAWING
ECO	EXTERIOR CLEANOUT
EWC	ELECTRIC WATER COOLER
EL	ELEVATION
ELEC	ELECTRIC
EEWISH	EYE WASH/SHOWER
°F	DEGREES FAHRENHEIT
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GO	GAS OUTLET
GWH	GAS WATER HEATER
HB	HOSE BIBB
HP	HORSEPOWER
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
HZ	FREQUENCY
IN	INCH OR INCHES
INSUL	INSULATION
KW	KILOWATT
L	LAVATORY
MAX	MAXIMUM
MS	MOP SINK
NG	NATURAL GAS
NO	NORMALLY OPEN
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
RCP	RECIRCULATING PUMP (HWR)
RPM	REVOLUTIONS PER MINUTE
S	KITCHEN SINK (DOMESTIC)
SAN	SANITARY
SH	SHOWER
SPEC	SPECIFICATION
ST	STORM
TD	TRENCH DRAIN
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TYP	TYPICAL
V	VENT LINE
VLV	VALVE
VTR	VENT THRU ROOF
WC	WATER CLOSET
WC.	WATER COLUMN
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WB	SUPPLY BOX (CLOTHES WASHER)
RD	ROOF DRAIN

SYMBOL LEGEND

PIPE SECTION - SUPPLY
PIPE SECTION - RETURN
DIRECTION OF FLOW IN PIPE
PIPE UP
PIPE DOWN
BALL VALVE
CHECK VALVE
GATE VALVE
GLOBE VALVE
BALANCING VALVE
PLUG VALVE
STRAINER, Y-TYPE AND BLOWOFF VALVE
PRESSURE RELIEF VALVE (WATER)
PRESSURE REDUCING VALVE
VALVE IN SERVICE BOX WITH CAST IRON COVER
SOLENOID VALVE
FCO — FLOOR CLEANOUT
ECO — EXTERIOR CLEANOUT
2-WAY ECO — EXTERIOR 2-WAY CLEANOUT
WCO — WALL CLEANOUT
CO — HORIZONTAL CLEANOUT
CAPPED PIPE
POINT OF CONNECTION OF NEW TO EXISTING
POINT OF DISCONNECT FROM EXISTING
T — DELTA T (TEMPERATURE DIFFERENCE
HOT WATER RECIRCULATOR PUMP
HOSE BIBB
FLOOR DRAIN
HUB DRAIN
FLOOR SINK
TRENCH DRAIN
DOMESTIC COLD WATER PIPING
DOMESTIC HOT WATER PIPING (120°F)
140 — DOMESTIC HOT WATER PIPING (140°F)
DOMESTIC HOT WATER RETURN PIPING
VENT PIPING
SAN — SANITARY/SEWER PIPING
ST — STORM PIPING
TP — TRAP PRIMER PIPING

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RIVIERA BEACH POLICE DEPARTMENT

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2121 AVENUE S.
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GENERAL NOTES, ABBREVIATIONS & SYMBOLS - PLUMBING

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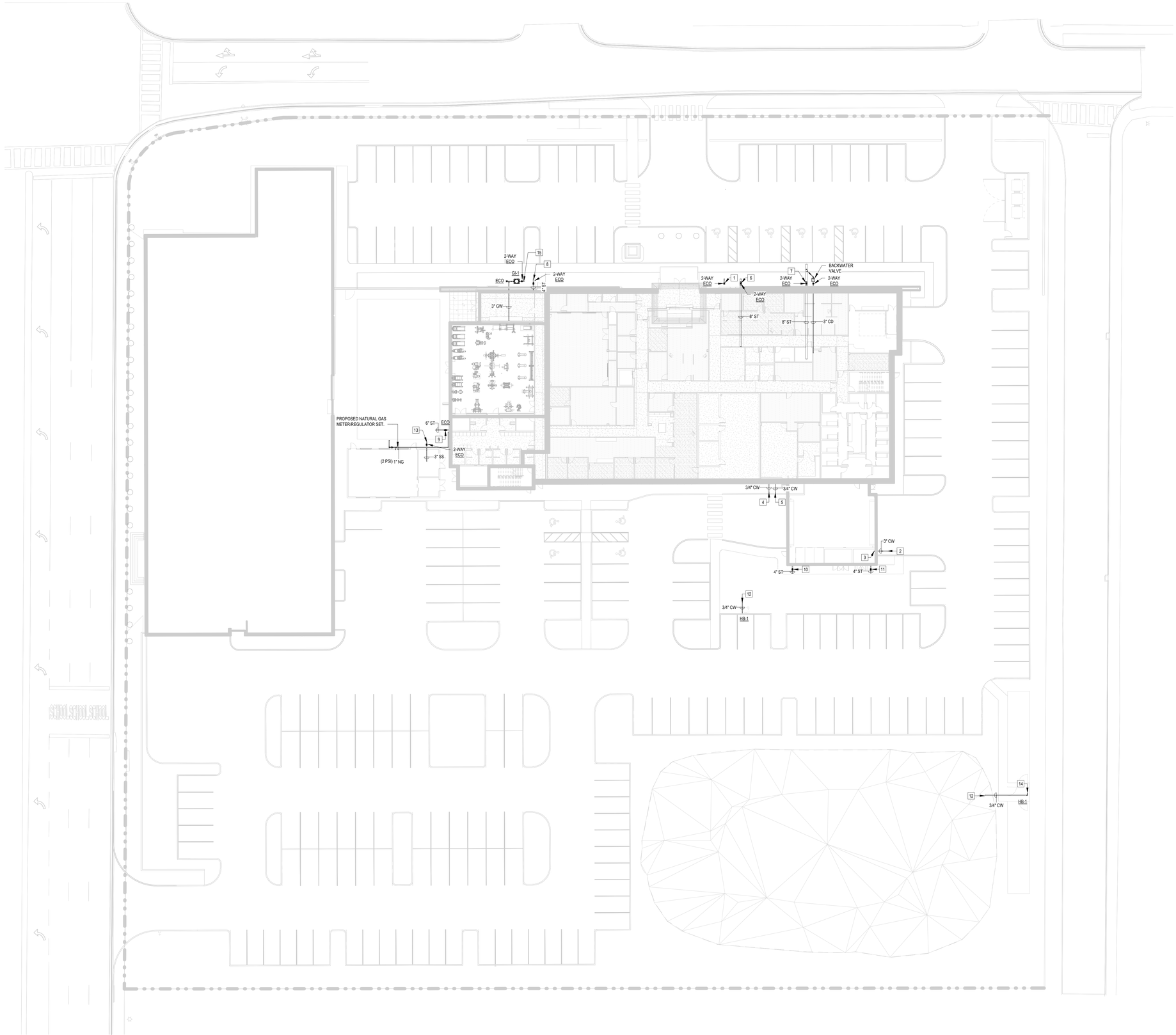

PLUMBING GENERAL NOTES:

1. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF PLUMBING SYSTEMS WITH STRUCTURE AND SYSTEMS (PIPING, DUCTWORK, CONDUIT, ETC.) PROVIDING OFFSETS AS REQUIRED.
2. COORDINATE UNDERGROUND PLUMBING PIPING WITH STRUCTURAL FOUNDATION PLANS PRIOR TO INSTALLATION OF FOUNDATION OR PIPING. COORDINATE DROP/STEP DOWN OF FOOTINGS AND FOUNDATION STRUCTURES AS REQUIRED WITH PLUMBING SERVICES. AVOID PENETRATION OF FOUNDATION STRUCTURES (FOOTINGS, ETC.) UNLESS PRE APPROVED, SLEEVED AND INSTALLED PER STRUCTURAL ENGINEER DIRECTION. PIPING ROUTED BELOW GRADE BEAMS SHALL BE SLEEVED (2 PIPE SIZES LARGER FOR ENTIRE WIDTH OF GRADE BEAM ZONE OF INFLUENCE + 1'-0" MIN. ON EACH SIZE. REFER TO STRUCTURAL DRAWING DETAILS FOR ADDITIONAL INFORMATION.
3. COORDINATE ENTERING AND LEAVING LOCATIONS AND INVERTS OF PLUMBING SERVICES WITH SITE UTILITIES PRIOR TO ANY SITE OR BLDG SYSTEM INSTALLATIONS.
4. ALL HORIZONTAL SANITARY PIPING 3" AND LARGER SHALL BE SLOPED AT 1/8" PER FOOT; 2-1/2" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT.
5. ALL STORM PIPING SHALL BE SLOPED AT 1/8" PER FOOT MINIMUM.

PLUMBING KEYNOTES [X]:

1. 4" SANITARY WASTE PIPING BELOW GRADE WITH 2-WAY EXTERIOR CLEANOUT. REFER TO CIVIL SITE UTILITY PLAN FOR CONTINUATION. (149 DFU & PRELIMINARY APPROX IN. EL. 48" BELOW FINISHED FLOOR).
2. 3" DOMESTIC WATER SERVICE PIPING BELOW GRADE WITH SHUT-OFF VALVE IN VALVE BOX WITH CAST IRON COVER. REFER TO CIVIL SITE UTILITY PLAN FOR CONTINUATION. (321 SFU = 90 GPM WITH AND ADDITIONAL GPM LOAD OF 10 GPM FOR WALL HYDRANTS TOTALING 100 GPM).
3. 3" CW PIPING UP. SEE SHEET 1/P2.01 FOR CONTINUATION.
4. 3/4" CW SERVICE FOR HOSE BIBB IN PARKING AREA. SEE CIVIL SITE UTILITY PLAN FOR CONTINUATION
5. 3/4" CW SERVICE FOR DOG RUN. SEE CIVIL SITE UTILITY PLAN FOR CONTINUATION.
6. 8" PRIMARY STORM PIPING BELOW GRADE WITH 2-WAY EXTERIOR CLEANOUT. REFER TO CIVIL SITE UTILITY PLAN FOR CONTINUATION. (13,752 SQ FT @ 714 GPM, APPROX. IN. EL. 36" BELOW FINISHED FLOOR).
7. 8" PRIMARY STORM PIPING BELOW GRADE WITH 2-WAY EXTERIOR CLEANOUT. REFER TO CIVIL SITE UTILITY PLAN FOR CONTINUATION. (6,971 SQ FT @ 363 GPM, APPROX. IN. EL. 36" BELOW FINISHED FLOOR).
8. 4" PRIMARY STORM PIPING BELOW GRADE WITH 2-WAY EXTERIOR CLEANOUT. REFER TO CIVIL SITE UTILITY PLAN FOR CONTINUATION. (888 SQ FT @ 46 GPM, APPROX. IN. EL. 24" BELOW FINISHED FLOOR).
9. 6" PRIMARY STORM PIPING BELOW GRADE WITH 2-WAY EXTERIOR CLEANOUT. REFER TO CIVIL SITE UTILITY PLAN FOR CONTINUATION. (4755 SQ FT @ 249 GPM, APPROX. IN. EL. 36" BELOW FINISHED FLOOR).
10. 4" PRIMARY STORM PIPING BELOW GRADE WITH 2-WAY EXTERIOR CLEANOUT. REFER TO CIVIL SITE UTILITY PLAN FOR CONTINUATION. (1,259 SQ FT @ 66 GPM, APPROX. IN. EL. 24" BELOW FINISHED FLOOR).
11. 4" PRIMARY STORM PIPING BELOW GRADE WITH 2-WAY EXTERIOR CLEANOUT. REFER TO CIVIL SITE UTILITY PLAN FOR CONTINUATION. (1,213 SQ FT @ 63 GPM, APPROX. IN. EL. 24" BELOW FINISHED FLOOR).
12. 3/4" CW SERVICE. SEE CIVIL SITE UTILITY PLAN FOR CONTINUATION.
13. 3" SANITARY WASTE PIPING BELOW GRADE WITH 2-WAY EXTERIOR CLEANOUT. REFER TO CIVIL SITE UTILITY PLAN FOR CONTINUATION. (5 DFU & APPROX IN. EL. 24" BELOW FINISHED FLOOR).
14. 3/4" CW BRANCH PIPING VALVED & CAPPED FOR FUTURE.
15. 3" GREASE WASTE PIPING BELOW GRADE WITH 2-WAY EXTERIOR CLEANOUT. REFER TO CIVIL SITE UTILITY PLAN FOR CONTINUATION. (APPROX IN. EL. 24" BELOW FINISHED FLOOR).

SITE PLAN - PLUMBING 3/64" = 1'-0" (1)

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DRAWING HISTORY

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PROJECT STATUS
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RIVIERA BEACH POLICE DEPARTMENT

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2121 AVENUE S.
RIVIERA BEACH, FL 33404

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SHEET TITLE
SITE PLAN - PLUMBING

SHEET NUMBER
P0.10

PLUMBING KEYNOTES [X] :

1. 4" SANITARY WASTE PIPING BELOW GRADE WITH 2-WAY EXTERIOR CLEANOUT. REFER TO CIVIL SITE UTILITY PLAN FOR CONTINUATION. (149 DFU & APPROX IN. EL. 48" BELOW FINISHED FLOOR).
2. 3" DOMESTIC WATER SERVICE PIPING BELOW GRADE WITH SHUT-OFF VALVE IN VALVE BOX WITH CAST IRON COVER. REFER TO CIVIL SITE UTILITY PLAN FOR CONTINUATION. (321 SFU = 90 GPM WITH AND ADDITIONAL GPM LOAD OF 10 GPM FOR WALL HYDRANTS TOTALING 100 GPM).
3. 3" CW PIPING UP. SEE SHEET 1/P2.01 FOR CONTINUATION.
4. 4" SANITARY WASTE PIPING UP. SEE SHEET 1/P1.01 FOR CONTINUATION.
5. 3" SANITARY WASTE PIPING UP. SEE SHEET 1/P1.01 FOR CONTINUATION.
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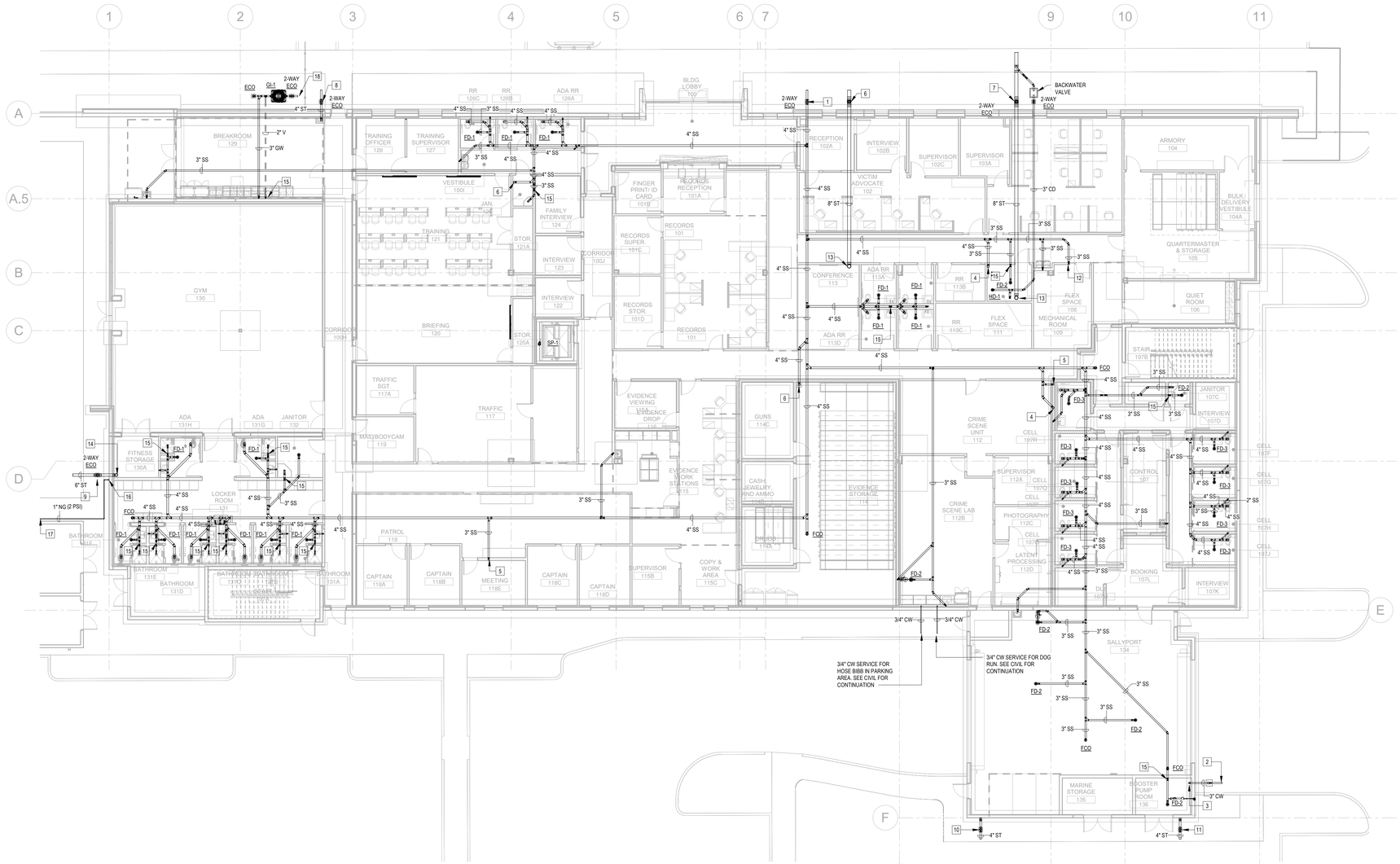
12. 2" SANITARY WASTE PIPING UP. SEE SHEET 1/P1.01 FOR CONTINUATION.
13. 8" PRIMARY STORM PIPING UP. SEE SHEET 1/P1.01 FOR CONTINUATION.
14. 6" PRIMARY STORM PIPING UP. SEE SHEET 1/P1.01 FOR CONTINUATION.
15. 2" VENT PIPING UP. SEE SHEET 1/P1.01 FOR CONTINUATION.
16. 1" NATURAL GAS PIPING UP. SEE SHEET 1/P2.01 FOR CONTINUATION.
17. 1" NATURAL GAS PIPING BELOW GRADE SHOWN FOR REFERENCE. COORDINATE GAS ROUTING WITH CIVIL ENGINEER OR UTILITY COMPANY FOR EXACT ROUTING. SEE SHEET P1.05 FOR CONTINUATION.
18. 3" GREASE WASTE PIPING BELOW GRADE WITH 2-WAY EXTERIOR CLEANOUT. REFER TO CIVIL SITE UTILITY PLAN FOR CONTINUATION. (APPROX IN. EL. 24" BELOW FINISHED FLOOR).

PLUMBING GENERAL NOTES:

1. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF PLUMBING SYSTEMS WITH STRUCTURE AND SYSTEMS (PIPING, DUCTWORK, CONDUIT, ETC.) PROVIDING OFFSETS AS REQUIRED.
2. REFER TO RISERS FOR COMPLETE PIPE SIZING.
3. COORDINATE UNDERGROUND PLUMBING PIPING WITH STRUCTURAL FOUNDATION PLANS PRIOR TO INSTALLATION OF FOUNDATION OR PIPING. COORDINATE DROP/STEP DOWN OF FOOTINGS AND FOUNDATION STRUCTURES AS REQUIRED WITH PLUMBING SERVICES. AVOID PENETRATION OF FOUNDATION STRUCTURES (FOOTINGS, ETC.) UNLESS PRE APPROVED, SLEEVED AND INSTALLED PER STRUCTURAL ENGINEER DIRECTION. PIPING ROUTED BELOW GRADE BEAMS SHALL BE SLEEVED (2 PIPE SIZES LARGER FOR ENTIRE WIDTH OF GRADE BEAM ZONE OF INFLUENCE + 1'-0" MIN. ON EACH SIZE. REFER TO STRUCTURAL DRAWING DETAILS FOR ADDITIONAL INFORMATION.
4. COORDINATE ENTERING AND LEAVING LOCATIONS AND INVERTS OF PLUMBING SERVICES WITH SITE UTILITIES PRIOR TO ANY SITE OR BLDG SYSTEM INSTALLATIONS.
5. ALL HORIZONTAL SANITARY PIPING 3" AND LARGER SHALL BE SLOPED AT 1/8" PER FOOT; 2-1/2" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT.
6. ALL STORM PIPING SHALL BE SLOPED AT 1/8" PER FOOT MINIMUM.



FOUNDATION PLAN - PLUMBING 3/32" = 1'-0" (1)

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2121 AVENUE S.
RIVIERA BEACH, FL 33404

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FOUNDATION PLAN - ADMIN - PLUMBING

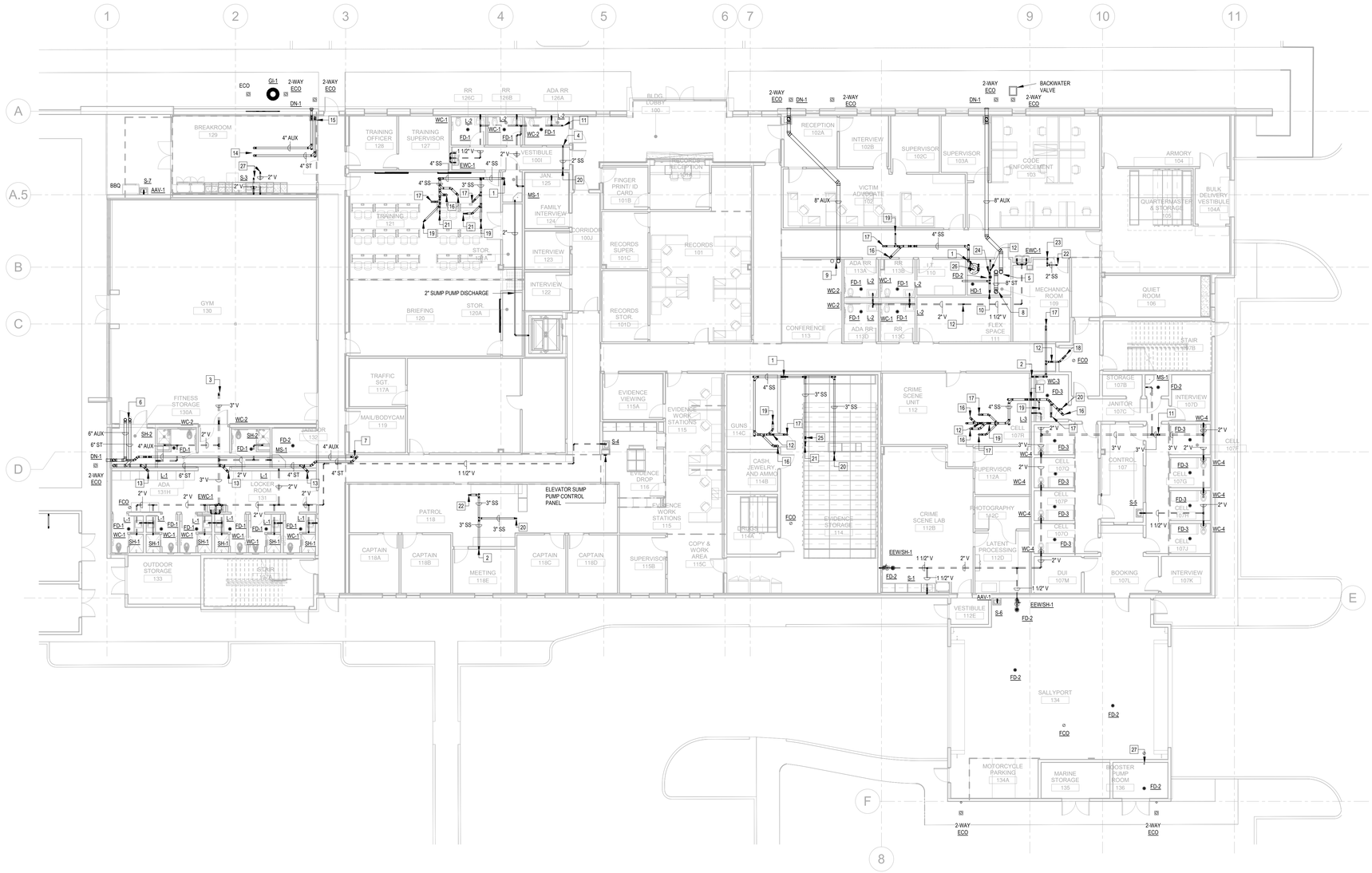
SHEET NUMBER
P1.00

PLUMBING KEYNOTES [X] :

1. 4" SANITARY WASTE PIPING DN. SEE SHEET 1/P1.00 FOR CONTINUATION.
2. 3" SANITARY WASTE PIPING DN. SEE SHEET 1/P1.00 FOR CONTINUATION.
3. 3" VENT UP, 3" V.T.R.
4. 2" SANITARY WASTE PIPING DN. SEE SHEET 1/P1.00 FOR CONTINUATION.
5. 8" PRIMARY & SECONDARY STORM PIPING UP. SEE SHEET 1/P1.02 FOR CONTINUATION.
6. 6" PRIMARY & SECONDARY STORM PIPING UP. SEE SHEET 1/P1.02 FOR CONTINUATION.
7. 4" PRIMARY & SECONDARY STORM PIPING UP. SEE SHEET 1/P1.02 FOR CONTINUATION.
8. 8" PRIMARY STORM PIPING DN. SEE SHEET 1/P1.00 FOR CONTINUATION.
9. 8" PRIMARY STORM PIPING UP & DN & 8" SECONDARY STORM PIPING UP. SEE SHEET 1/P1.00 & 1/P1.02 FOR CONTINUATION.
10. 3" CONDENSATE PIPING DN. SEE SHEET 1/P1.00 FOR CONTINUATION.
11. 3" VENT UP. SEE SHEET 1/P1.02 FOR CONTINUATION.
12. 2" VENT UP. SEE SHEET 1/P1.02 FOR CONTINUATION.
13. 4" PRIMARY STORM PIPING UP FOR ROOF DRAIN.
14. 4" PRIMARY & SECONDARY STORM PIPING UP FOR ROOF DRAIN.
15. 4" PRIMARY STORM PIPING DN. SEE SHEET 1/P1.00 FOR CONTINUATION.
16. 4" SANITARY WASTE PIPING UP FOR WATER CLOSET.
17. 3" SANITARY WASTE PIPING UP FOR FLOOR DRAIN.
18. 3" SANITARY WASTE PIPING UP FOR MOP SINK.
19. 2" SANITARY WASTE PIPING UP FOR LAVATORY.
20. 2" SANITARY WASTE PIPING UP FOR SINK.
21. 2" SANITARY WASTE PIPING UP FOR SHOWER.
22. 2" SANITARY WASTE PIPING UP FOR ELECTRIC WATER COOLER.
23. 2" SANITARY WASTE PIPING DN. SEE SHEET 1/P1.00 FOR CONTINUATION.
24. 3" CONDENSATE PIPING UP. SEE SHEET 1/P1.02 FOR CONTINUATION.
25. 1-1/2" VENT UP. SEE SHEET 1/P1.02 FOR CONTINUATION.
26. 3" FRESH AIR INTAKE & EXHAUST UP. SEE SHEET 1/P1.02 FOR CONTINUATION.
27. 2" VENT UP, 2" V.T.R.

PLUMBING GENERAL NOTES:

1. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF PLUMBING SYSTEMS WITH STRUCTURE AND SYSTEMS (PIPING, DUCTWORK, CONDUIT, ETC.) PROVIDING OFFSETS AS REQUIRED.
2. REFER TO RISERS FOR COMPLETE PIPE SIZING.
3. WHERE PIPING IS ROUTED DOWN WITHIN CMU WALLS, CONTRACTOR SHALL COORDINATE INSTALLATION TO MINIMIZE CHIPPING AND CUTTING OF BLOCK. ROUTE WITHIN CMU CORE OPENINGS WHICH ARE NOT GROUTED SOLID. INSTALL PIPING PRIOR TO CMU INSTALLATION WHEN FEASIBLE. COORDINATE ROUTING WITH STRUCTURAL.
4. PROVIDE WALL AND CEILING ACCESS PANELS FOR VALVES AND ACCESSORIES REQUIRING ACCESS LOCATED WITHIN WALLS OR ABOVE INACCESSIBLE CEILINGS. LOCATE ACCESS PANELS AND SIZE (MINIMUM 12"X12") TO PROVIDE ADEQUATE ACCESS.
5. ALL HORIZONTAL SANITARY PIPING 3" AND LARGER SHALL BE SLOPED AT 1/8" PER FOOT; 2-1/2" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT.
6. ALL STORM PIPING SHALL BE SLOPED AT 1/8" PER FOOT MINIMUM.



1ST FLOOR PLAN - WASTE - PLUMBING 3/32" = 1'-0" (1)

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1641 Worthington Rd
West Palm Beach
FL 33409

PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

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600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE57743

DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

CMTA
A LEGENCE Company
4 Harvard Cir, Suite 600 | West Palm Beach, FL 33409
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PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
1ST FLOOR PLAN - ADMIN - WASTE - PLUMBING

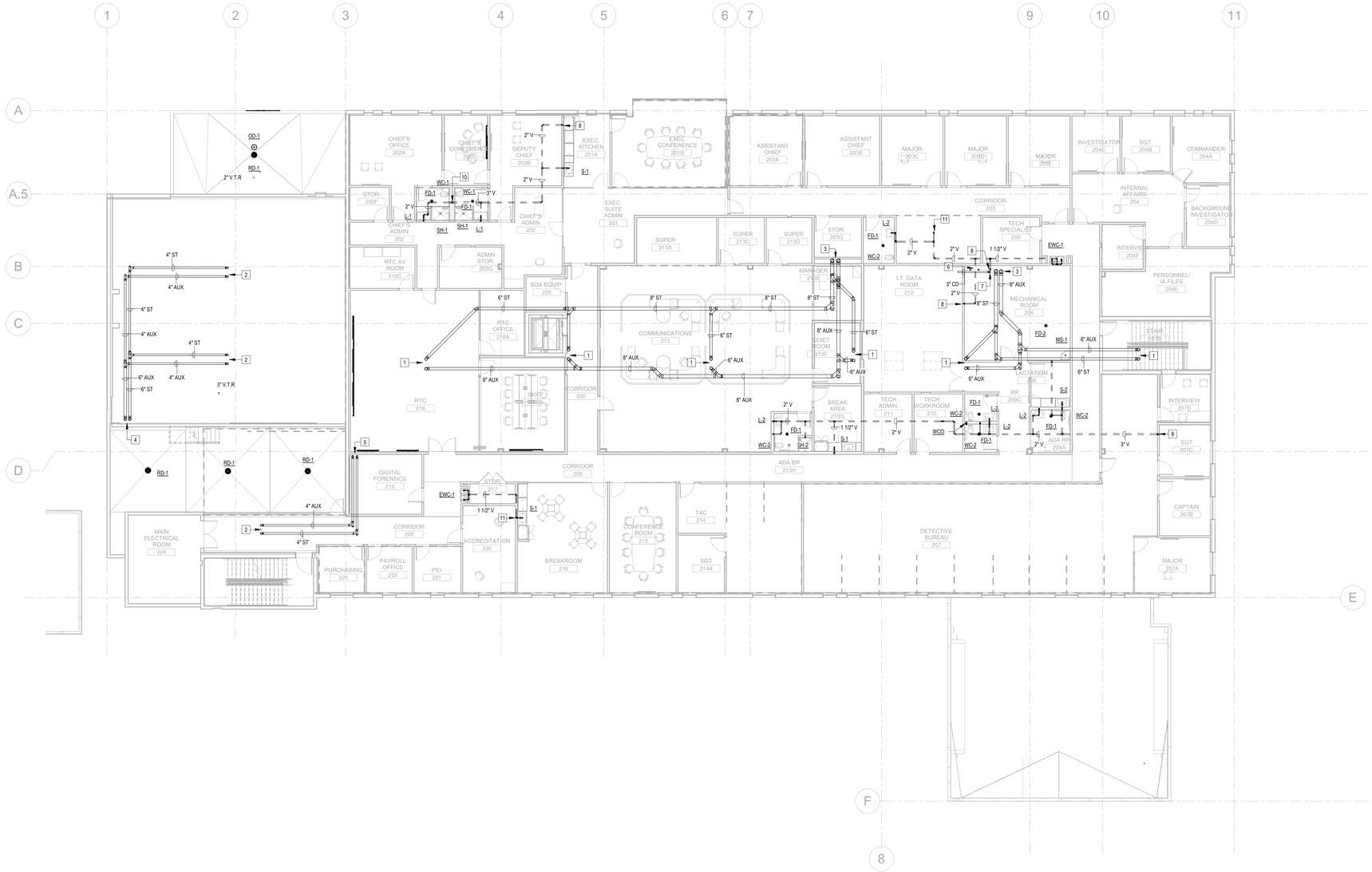
SHEET NUMBER
P1.01

PLUMBING KEYNOTES [X] :

1. 6" PRIMARY & SECONDARY PIPING UP FOR ROOF DRAINS.
2. 4" PRIMARY & SECONDARY PIPING UP FOR ROOF DRAINS.
3. 8" PRIMARY & SECONDARY PIPING DN. SEE SHEET 1/P1.01 FOR CONTINUATION.
4. 6" PRIMARY & SECONDARY PIPING DN. SEE SHEET 1/P1.01 FOR CONTINUATION.
5. 4" PRIMARY & SECONDARY PIPING DN. SEE SHEET 1/P1.01 FOR CONTINUATION.
6. 3" WATER HEATER FRESH AIR INTAKE & EXHAUST UP & DN. SEE SHEET 1/P1.10 & 1/P1.01 FOR CONTINUATION.
7. 3" CONDENSATE PIPING DN. SEE SHEET 1/P1.01 FOR CONTINUATION.
8. 2" VENT PIPING DN. SEE SHEET 1/P1.01 FOR CONTINUATION.
9. 3" VENT PIPING UP & DN, 3" V.T.R. SEE SHEET 1/P1.10 & 1/P1.01 FOR CONTINUATION.
10. 3" VENT PIPING UP, 3" V.T.R.
11. 2" VENT PIPING UP, 2" V.T.R.

PLUMBING GENERAL NOTES:

1. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF PLUMBING SYSTEMS WITH STRUCTURE AND SYSTEMS (PIPING, DUCTWORK, CONDUIT, ETC.) PROVIDING OFFSETS AS REQUIRED.
2. REFER TO RISERS FOR COMPLETE PIPE SIZING.
3. WHERE PIPING IS ROUTED DOWN WITHIN CMU WALLS, CONTRACTOR SHALL COORDINATE INSTALLATION TO MINIMIZE CHIPPING AND CUTTING OF BLOCK. ROUTE WITHIN CMU CORE OPENINGS WHICH ARE NOT GROUTED SOLID. INSTALL PIPING PRIOR TO CMU INSTALLATION WHEN FEASIBLE. COORDINATE ROUTING WITH STRUCTURAL.
4. PROVIDE WALL AND CEILING ACCESS PANELS FOR VALVES AND ACCESSORIES REQUIRING ACCESS LOCATED WITHIN WALLS OR ABOVE INACCESSIBLE CEILINGS. LOCATE ACCESS PANELS AND SIZE (MINIMUM 12"X12") TO PROVIDE ADEQUATE ACCESS.
5. ALL HORIZONTAL SANITARY PIPING 3" AND LARGER SHALL BE SLOPED AT 1/8" PER FOOT; 2-1/2" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT.
6. ALL STORM PIPING SHALL BE SLOPED AT 1/8" PER FOOT MINIMUM.



2ND FLOOR PLAN - WASTE - PLUMBING 3/32" = 1'-0" (1)

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CITY OF RIVIERA BEACH
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CONSULTANT

CMTA
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PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
2ND FLOOR PLAN - ADMIN - WASTE - PLUMBING

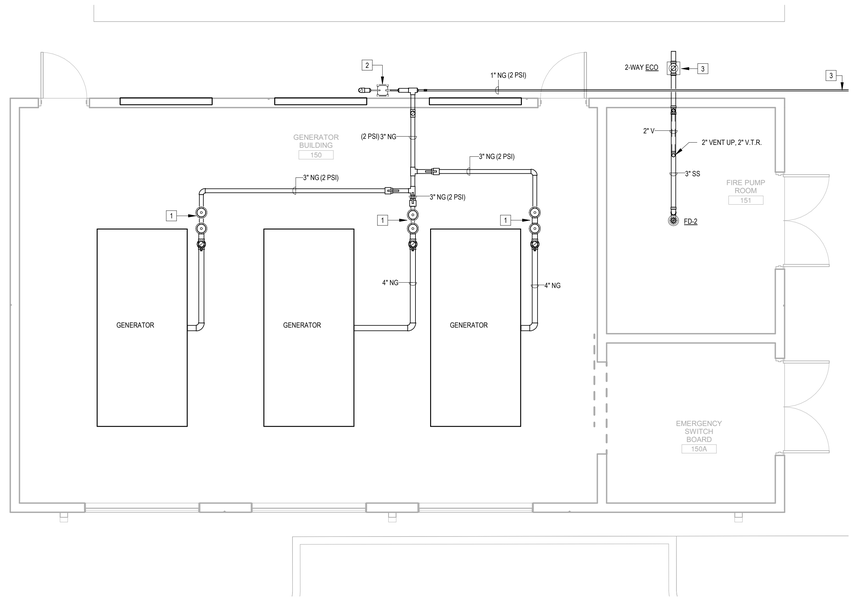
SHEET NUMBER
P1.02

PLUMBING KEYNOTES [X] :

1. PRESSURE REGULATOR WITH OVER PRESSURE DEVICE. SET REGULATOR TO 11" W.C.
2. PROPOSED METER/REGULATOR SET BY UTILITY COMPANY. LEAVING PRESSURE 2 PSI.
3. 3" SANITARY WASTE PIPING BELOW GRADE WITH 2-WAY EXTERIOR CLEANOUT. REFER TO CIVIL SITE UTILITY PLAN FOR CONTINUATION. (5 DFU & APPROX IN. EL. 24" BELOW FINISHED FLOOR).
4. 1" NATURAL GAS PIPING BELOW GRADE SHOWN FOR REFERENCE. COORDINATE GAS ROUTING WITH CIVIL ENGINEER OR UTILITY COMPANY FOR EXACT ROUTING. SEE SHEET P1.00 FOR CONTINUATION.

PLUMBING GENERAL NOTES:

1. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF PLUMBING SYSTEMS WITH STRUCTURE AND SYSTEMS (PIPING, DUCTWORK, CONDUIT, ETC.) PROVIDING OFFSETS AS REQUIRED.
2. COORDINATE UNDERGROUND PLUMBING PIPING WITH STRUCTURAL FOUNDATION PLANS PRIOR TO INSTALLATION OF FOUNDATION OR PIPING. COORDINATE DROP/STEP DOWN OF FOOTINGS AND FOUNDATION STRUCTURES AS REQUIRED WITH PLUMBING SERVICES. AVOID PENETRATION OF FOUNDATION STRUCTURES (FOOTINGS, ETC.) UNLESS PRE APPROVED, SLEEVED AND INSTALLED PER STRUCTURAL ENGINEER DIRECTION. PIPING ROUTED BELOW GRADE BEAMS SHALL BE SLEEVED (2 PIPE SIZES LARGER FOR ENTIRE WIDTH OF GRADE BEAM ZONE OF INFLUENCE + 1'-0" MIN. ON EACH SIZE. REFER TO STRUCTURAL DRAWING DETAILS FOR ADDITIONAL INFORMATION.
3. COORDINATE ENTERING AND LEAVING LOCATIONS AND INVERTS OF PLUMBING SERVICES WITH SITE UTILITIES PRIOR TO ANY SITE OR BLDG SYSTEM INSTALLATIONS.
4. ALL HORIZONTAL SANITARY PIPING 3" AND LARGER SHALL BE SLOPED AT 1/8" PER FOOT; 2-1/2" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT.



GENERATOR BUILDING FLOOR PLAN - PLUMBING 1/4" = 1'-0" (1)

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PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER
1007657.00

SHEET TITLE
GENERATOR BUILDING FLOOR PLAN - PLUMBING

SHEET NUMBER
P1.05

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/RBPD_MEPF_R24.rvt
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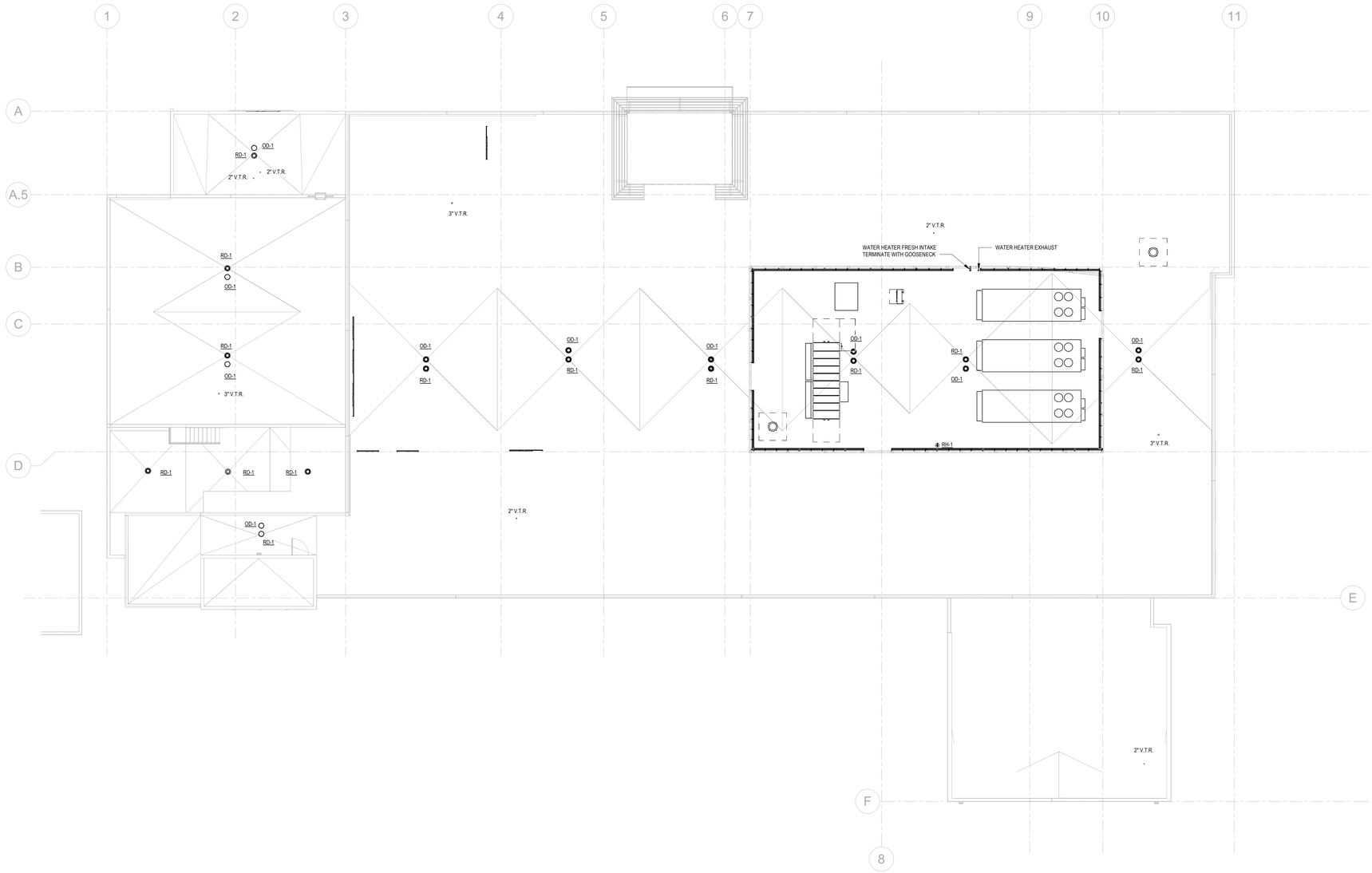

ROOF PLAN - PLUMBING 3/32" = 1'-0" (1)

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/RBPD_MEPF_R24.rvt
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FL REG. NO.: PE57743

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DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
ROOF PLAN - ADMIN - PLUMBING

SHEET NUMBER
P1.10

PLUMBING KEYNOTES [X]:

1. 1-1/4" CW PIPING UP FOR WATER CLOSET. SEE SHEET 1/P2.02 FOR CONTINUATION.
2. 1/2" CW, HW & HWR PIPING UP FOR LAVATORY. SEE SHEET 1/P2.02 FOR CONTINUATION.
3. 1/2" CW & HW UP FOR SHOWER. SEE SHEET 1/P2.02 FOR CONTINUATION.
4. 1/2" CW & HW UP FOR SINK. SEE SHEET 1/P2.02 FOR CONTINUATION.
5. 1/2" CW UP FOR ELECTRIC WATER COOLER. SEE SHEET 1/P2.02 FOR CONTINUATION.
6. 3/4" CW & HW UP FOR MOP SINK. SEE SHEET 1/P2.02 FOR CONTINUATION.
7. 1/2" HW & HWR PIPING UP FOR LAVATORY. SEE SHEET 1/P2.02 FOR CONTINUATION.
8. 1-1/4" CW PIPING UP FOR BATHROOM GROUP. SEE SHEET 1/P2.02 FOR CONTINUATION.
9. 3" CW PIPING DN. SEE SHEET 1/P1.00 FOR CONTINUATION.
10. 3/4" CW PIPING DN. SEE SHEET 1/P1.00 FOR CONTINUATION.
11. COMBINED NG & CARBON MONOXIDE MONITORING SYSTEM AMERICAN GAS SAFETY MINI MERLIN #AGS-CHACO-35. CONNECT TO CONTACTOR ON POWER SUPPLY OF WATER HEATER TO SHUT DOWN DURING FIRE ALARM CONDITION. CONNECT TO EMERGENCY SHUT-OFF BUTTON AND FIRE ALARM PANEL.
12. EMERGENCY SHUT-OFF BUTTON SERVING WATER HEATER AMERICAN GAS SAFETY #AGS-EPOTWIM.
13. 1" NATURAL GAS PIPING SERVING BUILDING WITH SHUT-OFF VALVE AND MANUAL RESET SOLENOID VALVE IN VERTICAL. SOLENOID VALVE SHALL BE IN NEMA 4 ENCLOSURE AND SHALL CLOSE UPON ACTIVATION OF FIRE ALARM PANEL.
14. EMERGENCY SHUT-OFF BUTTON SERVING BBQ GRILL AMERICAN GAS SAFETY #AGS-EPOTWIM. COORDINATE ELECTRICAL RACEWAY AND MOUNTING OF EMERGENCY PUSH BUTTON WITH TILT WALL CONSTRUCTION.
15. GAS SOLENOID VALVE. CONNECT TO EMERGENCY SHUT-OFF BUTTON. INDENTIFIED BY KEYNOTE #14.
16. 1" CW PIPING UP. SEE SHEET P2.02 FOR CONTINUATION.

PLUMBING GENERAL NOTES:

1. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF PLUMBING SYSTEMS WITH STRUCTURE AND SYSTEMS (PIPING, DUCTWORK, CONDUIT, ETC.) PROVIDING OFFSETS AS REQUIRED.
2. REFER TO RISERS FOR COMPLETE PIPE SIZING.
3. WHERE PIPING IS ROUTED DOWN WITHIN CMU WALLS, CONTRACTOR SHALL COORDINATE INSTALLATION TO MINIMIZE CHIPPING AND CUTTING OF BLOCK. ROUTE WITHIN CMU CORE OPENINGS WHICH ARE NOT GROUTED SOLID. INSTALL PIPING PRIOR TO CMU INSTALLATION WHEN FEASIBLE. COORDINATE ROUTING WITH STRUCTURAL.
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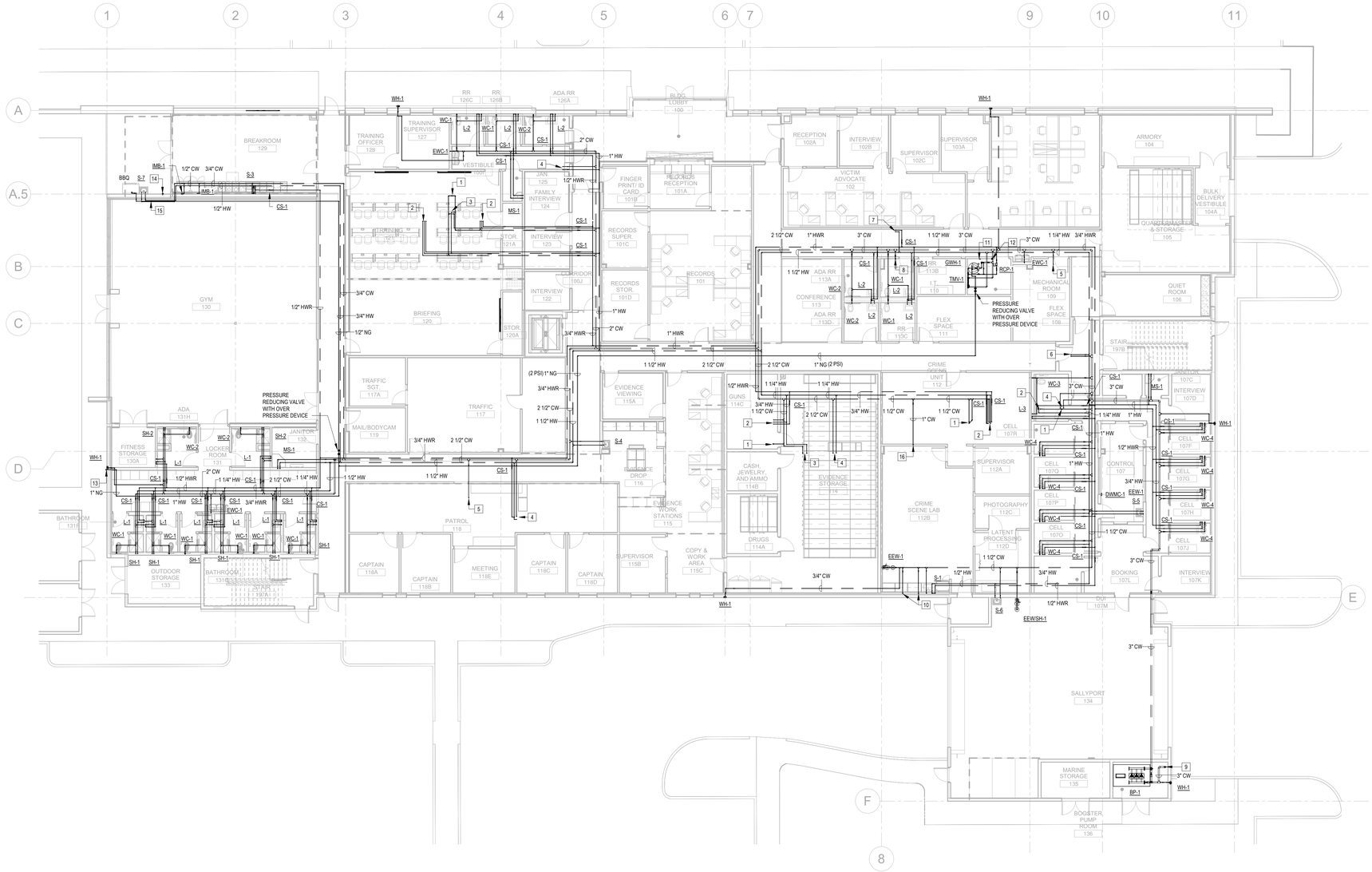

1ST FLOOR PLAN - DOMESTIC - PLUMBING 3/32" = 1'-0" (1)

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CLIENT

CITY OF RIVIERA BEACH
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Riviera Beach, FL 33404

ARCHITECT OF RECORD

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West Palm Beach
FL 33409

PUBLIC SAFETY CONSULTANT/ARCHITECT

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Longwood, FL
32750

REGISTRATION

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FL REG. NO.: PE57743

DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

CMTA
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PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER
1007657.00

SHEET TITLE
1ST FLOOR PLAN - ADMIN - DOMESTIC - PLUMBING

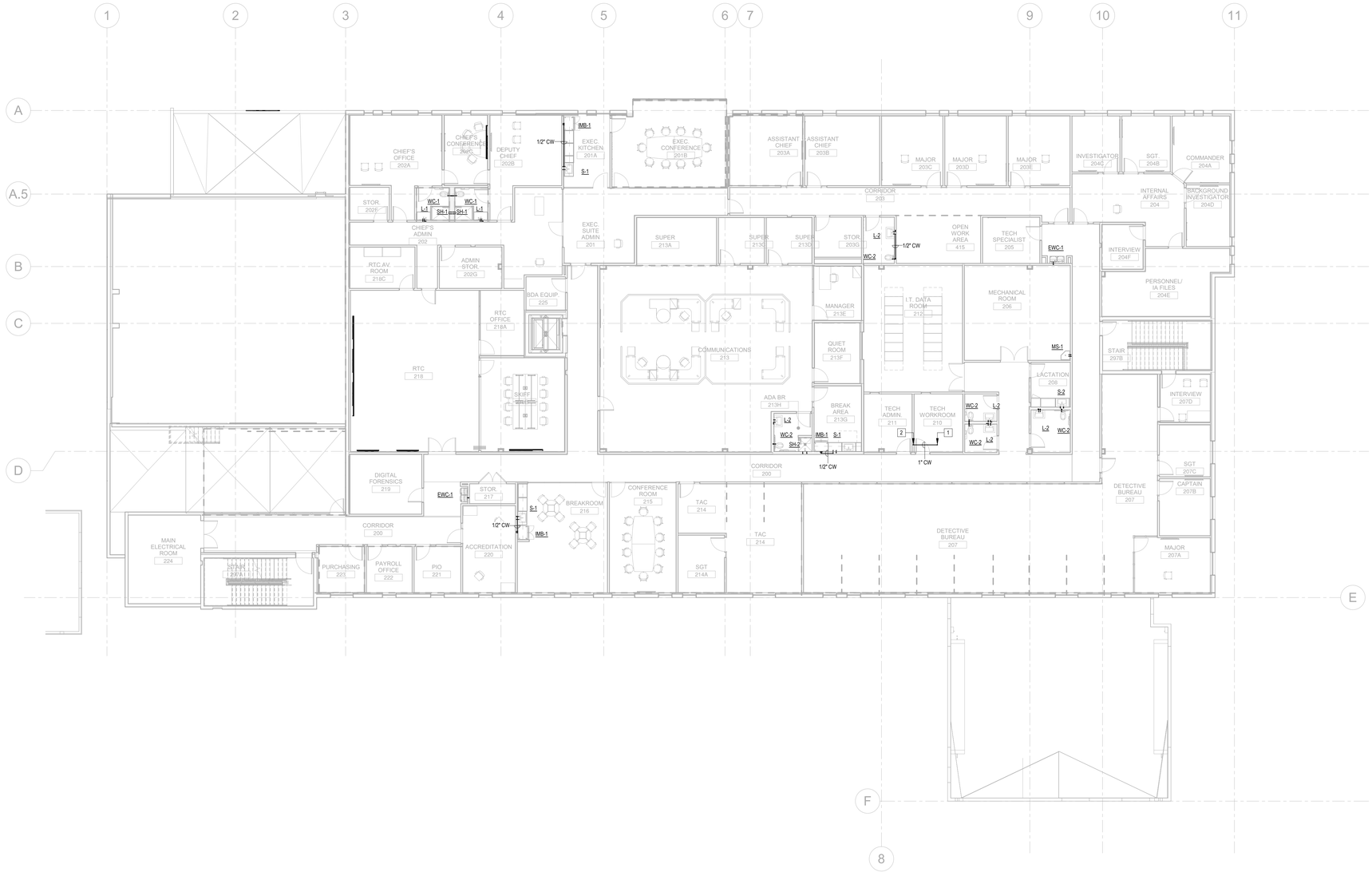
SHEET NUMBER
P2.01

PLUMBING GENERAL NOTES:

1. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF PLUMBING SYSTEMS WITH STRUCTURE AND SYSTEMS (PIPING, DUCTWORK, CONDUIT, ETC.) PROVIDING OFFSETS AS REQUIRED.
2. REFER TO RISERS FOR COMPLETE PIPE SIZING.
3. WHERE PIPING IS ROUTED DOWN WITHIN CMU WALLS, CONTRACTOR SHALL COORDINATE INSTALLATION TO MINIMIZE CHIPPING AND CUTTING OF BLOCK. ROUTE WITHIN CMU CORE OPENINGS WHICH ARE NOT GROUTED SOLID. INSTALL PIPING PRIOR TO CMU INSTALLATION WHEN FEASIBLE. COORDINATE ROUTING WITH STRUCTURAL.
4. PROVIDE WALL AND CEILING ACCESS PANELS FOR VALVES AND ACCESSORIES REQUIRING ACCESS LOCATED WITHIN WALLS OR ABOVE INACCESSIBLE CEILINGS. LOCATE ACCESS PANELS AND SIZE (MINIMUM 12"X12") TO PROVIDE ADEQUATE ACCESS.

PLUMBING KEYNOTES X :

1. 1" CW PIPING UP FOR ROOF HYDRANT.
2. 1" CW PIPING DN. SEE SHEET P2.01 FOR CONTINUATION.



2ND FLOOR PLAN - DOMESTIC - PLUMBING 3/32" = 1'-0" 1

CLIENT

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FL REG. NO. 1F32743

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PROJECT STATUS
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DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
2ND FLOOR PLAN - ADMIN - DOMESTIC - PLUMBING

SHEET NUMBER
P2.02

FILE NAME: Autodesk Docs:// 1007657.00 - CORE - City of Riviera Beach D/RBPD_MEPF_R24.rvt
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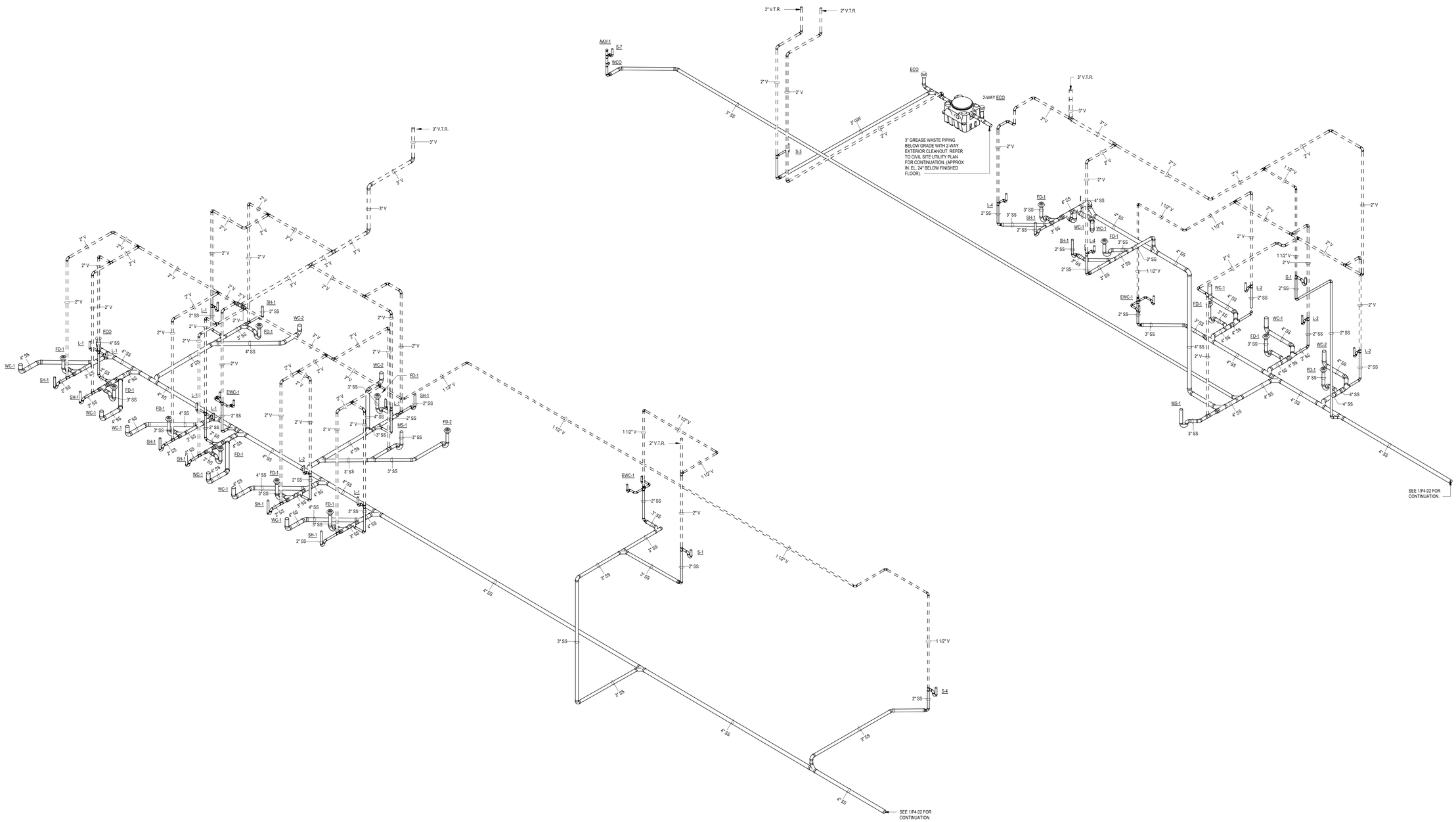

WASTE & VENT RISER (PART 1) - PLUMBING (1)

FILE NAME: Autodesk Docs// 1007657.00 - CORE - City of Riviera Beach D/RBPD_MEPF_R24.rvt
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CLIENT

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D	9/18/2025	90% Construction Documents
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CONSULTANT

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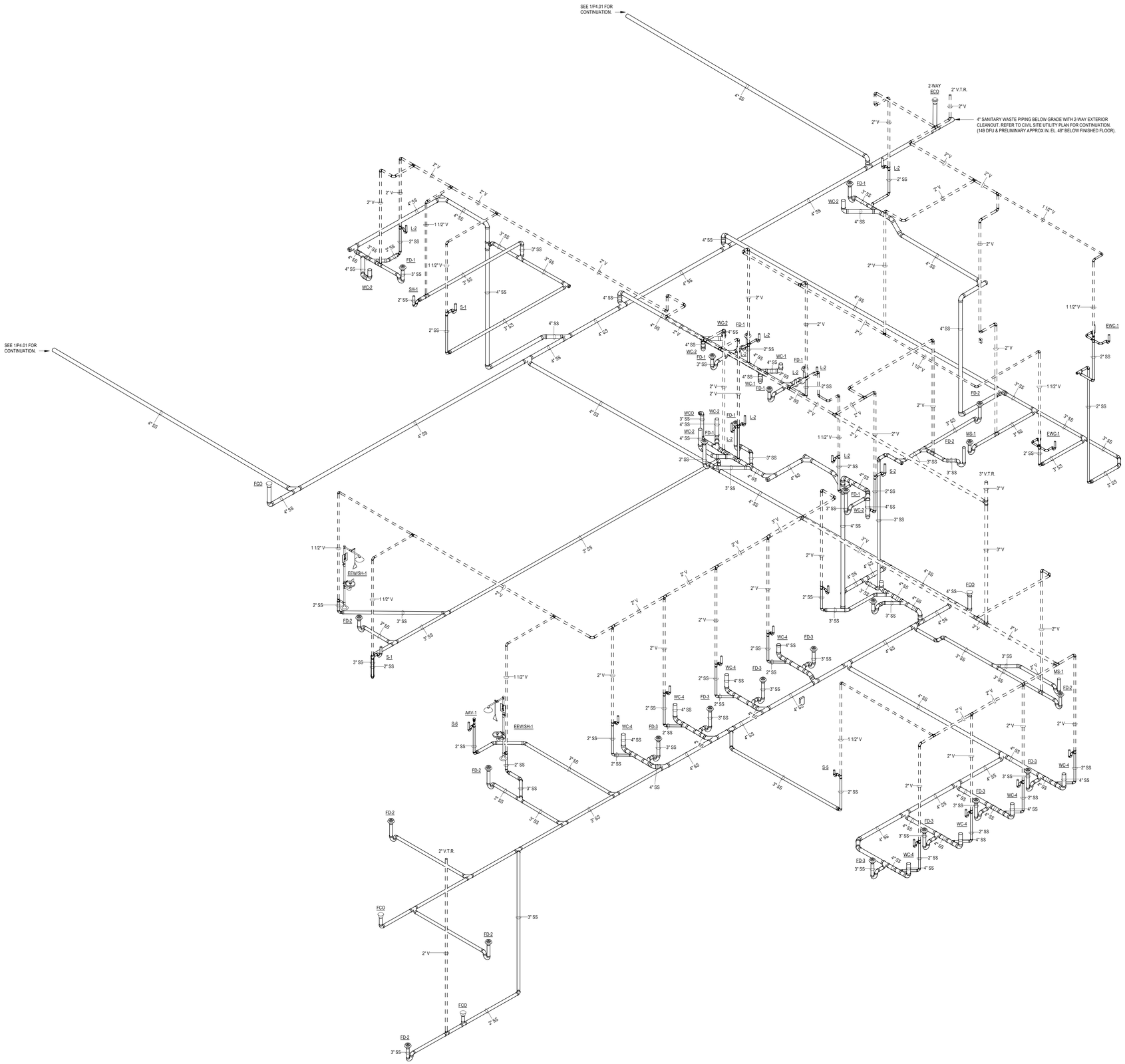
2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER
1007657.00

SHEET TITLE
WASTE & VENT RISER (PART 1) - PLUMBING

SHEET NUMBER
P4.01



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DATE STAMP: 10/23/2025 8:50:44 AM

WASTE & VENT RISER (PART 2) - PLUMBING 1

CLIENT

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1481 West 15 Street
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FL REG. NO.: PE57743

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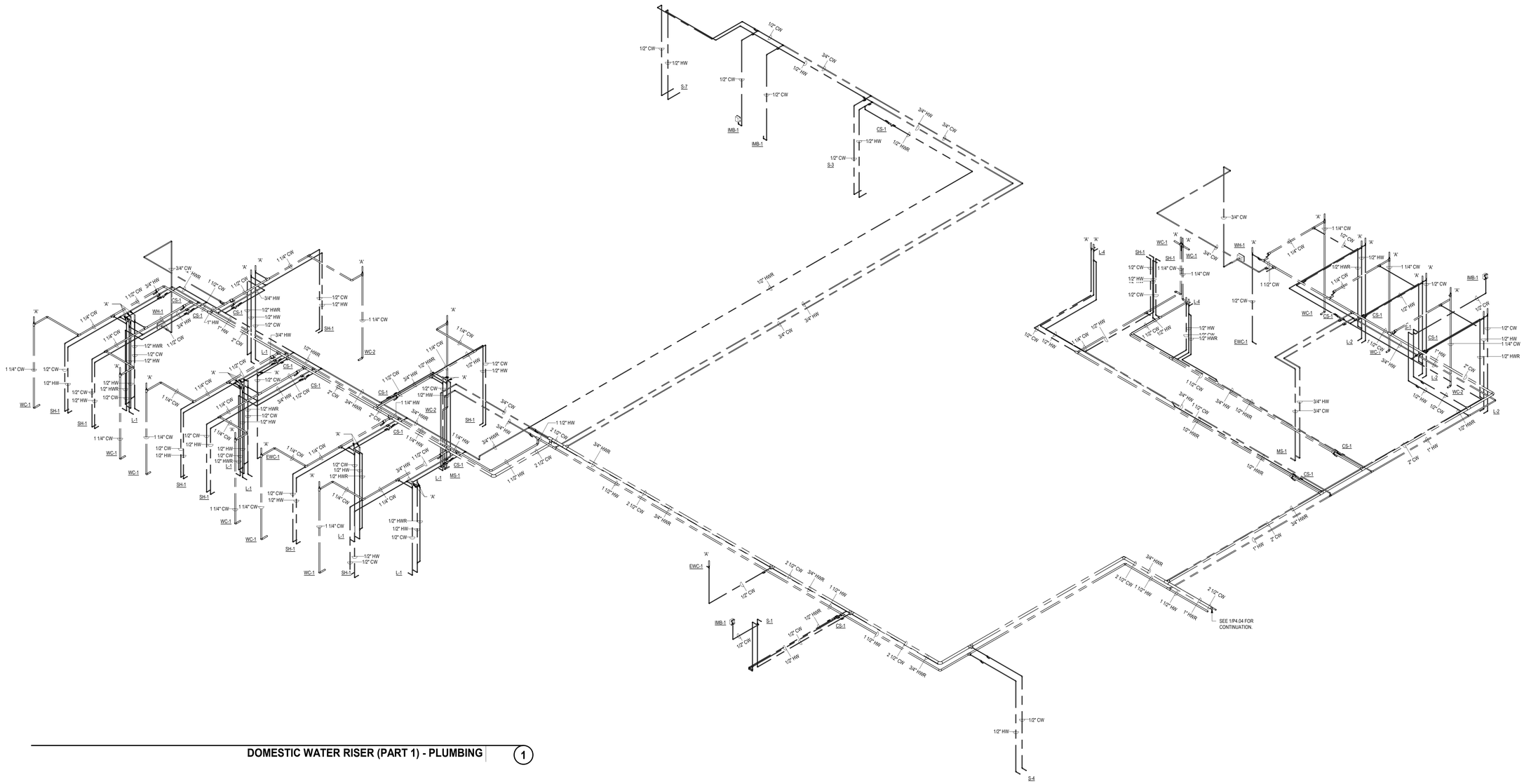
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
WASTE & VENT RISER (PART 2) - PLUMBING

SHEET NUMBER
P4.02



DOMESTIC WATER RISER (PART 1) - PLUMBING (1)

FILE NAME: Autodesk Docs://_1007657.00 - CORE - City of Riviera Beach D/RBPD_MEPF_R24.rvt
DATE STAMP: 10/23/2025 8:50:53 AM

CLIENT

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MAITLAND, FL 32751
FL REG. NO.: PE57743

DRAWING HISTORY

No.	DATE	DESCRIPTION
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

CMTA
A LEGENCE Company
4 Harvard Cir. Suite 600 | West Palm Beach, FL 33409
561.688.8375 | cmta.com

PROJECT STATUS

90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

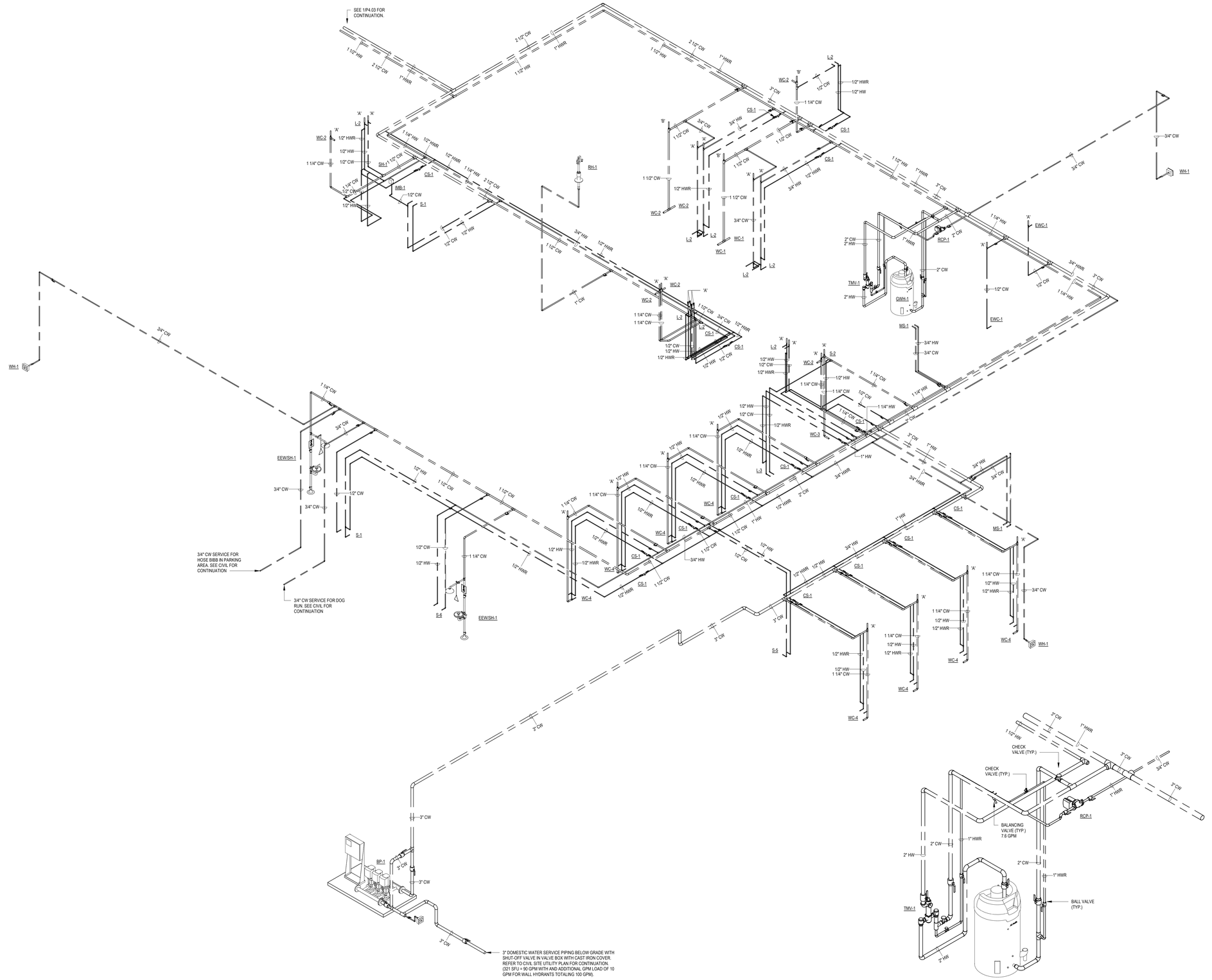
1007657.00

SHEET TITLE

DOMESTIC WATER RISER (PART 1) - PLUMBING

SHEET NUMBER

P4.03



DOMESTIC WATER RISER (PART 2)- PLUMBING 1

WATER HEATER PIPING DIAGRAM - PLUMBING 2

FILE NAME: Autodesk Docs://_1007657.00 - CORE - City of Riviera Beach D/RBPD_MEPF_R24.rvt
DATE STAMP: 10/23/2025 8:51:02 AM

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

ARCHITECT OF RECORD

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CONSTRUCTION MANAGER/BUILDER

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PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

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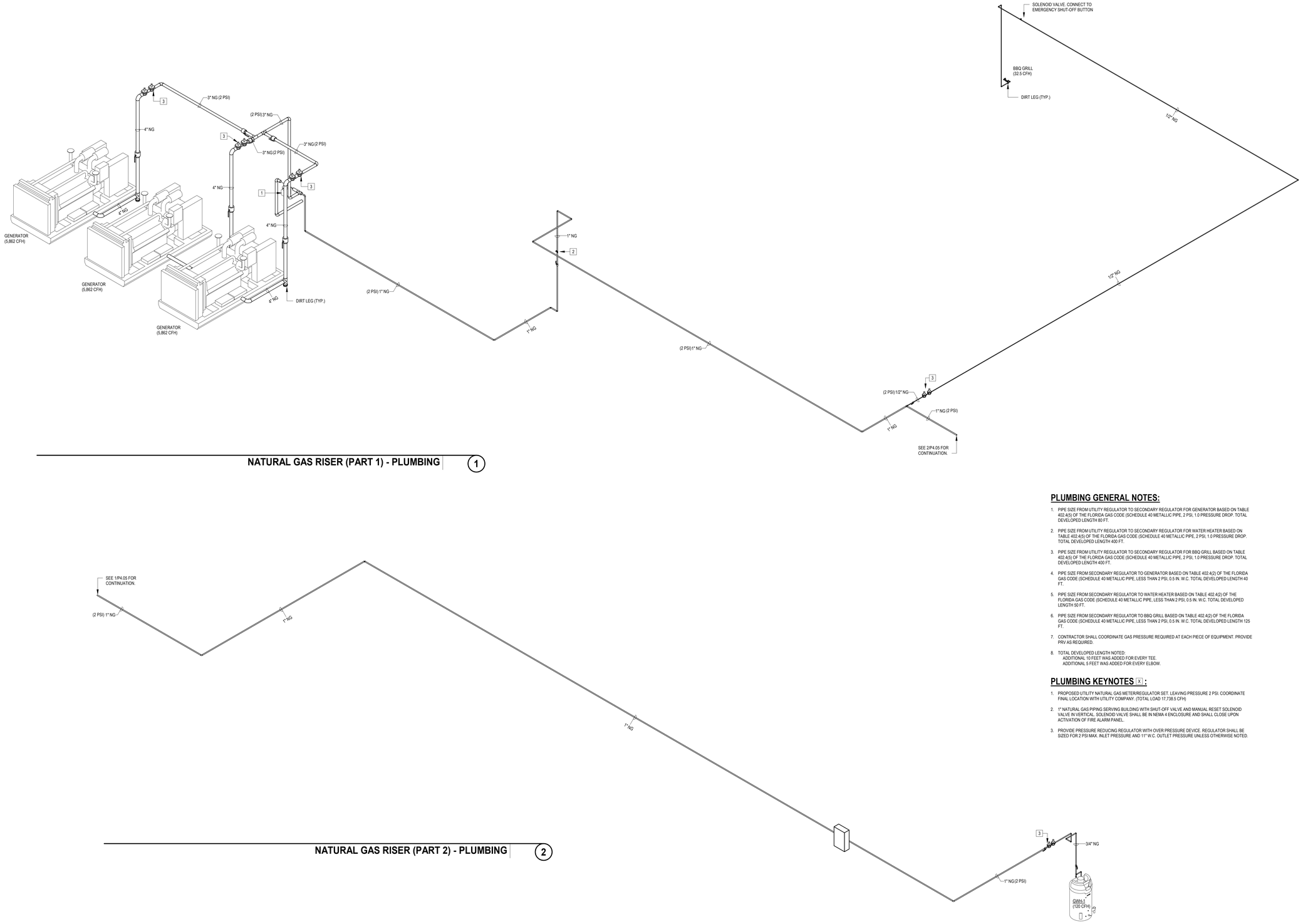
P4.04



NATURAL GAS RISER (PART 1) - PLUMBING (1)

NATURAL GAS RISER (PART 2) - PLUMBING (2)

PLUMBING GENERAL NOTES:

1. PIPE SIZE FROM UTILITY REGULATOR TO SECONDARY REGULATOR FOR GENERATOR BASED ON TABLE 402.4(5) OF THE FLORIDA GAS CODE (SCHEDULE 40 METALLIC PIPE, 2 PSI, 1.0 PRESSURE DROP. TOTAL DEVELOPED LENGTH 80 FT.
2. PIPE SIZE FROM UTILITY REGULATOR TO SECONDARY REGULATOR FOR WATER HEATER BASED ON TABLE 402.4(5) OF THE FLORIDA GAS CODE (SCHEDULE 40 METALLIC PIPE, 2 PSI, 1.0 PRESSURE DROP. TOTAL DEVELOPED LENGTH 400 FT.
3. PIPE SIZE FROM UTILITY REGULATOR TO SECONDARY REGULATOR FOR BBQ GRILL BASED ON TABLE 402.4(5) OF THE FLORIDA GAS CODE (SCHEDULE 40 METALLIC PIPE, 2 PSI, 1.0 PRESSURE DROP. TOTAL DEVELOPED LENGTH 400 FT.
4. PIPE SIZE FROM SECONDARY REGULATOR TO GENERATOR BASED ON TABLE 402.4(2) OF THE FLORIDA GAS CODE (SCHEDULE 40 METALLIC PIPE, LESS THAN 2 PSI, 0.5 IN. W.C. TOTAL DEVELOPED LENGTH 40 FT.
5. PIPE SIZE FROM SECONDARY REGULATOR TO WATER HEATER BASED ON TABLE 402.4(2) OF THE FLORIDA GAS CODE (SCHEDULE 40 METALLIC PIPE, LESS THAN 2 PSI, 0.5 IN. W.C. TOTAL DEVELOPED LENGTH 50 FT.
6. PIPE SIZE FROM SECONDARY REGULATOR TO BBQ GRILL BASED ON TABLE 402.4(2) OF THE FLORIDA GAS CODE (SCHEDULE 40 METALLIC PIPE, LESS THAN 2 PSI, 0.5 IN. W.C. TOTAL DEVELOPED LENGTH 125 FT.
7. CONTRACTOR SHALL COORDINATE GAS PRESSURE REQUIRED AT EACH PIECE OF EQUIPMENT. PROVIDE PRV AS REQUIRED.
8. TOTAL DEVELOPED LENGTH NOTED:
   ADDITIONAL 10 FEET WAS ADDED FOR EVERY TEE
   ADDITIONAL 5 FEET WAS ADDED FOR EVERY ELBOW.

PLUMBING KEYNOTES [X]:

1. PROPOSED UTILITY NATURAL GAS METER/REGULATOR SET. LEAVING PRESSURE 2 PSI. COORDINATE FINAL LOCATION WITH UTILITY COMPANY. (TOTAL LOAD 17,738.5 CFH)
2. 1" NATURAL GAS PIPING SERVING BUILDING WITH SHUT-OFF VALVE AND MANUAL RESET SOLENOID VALVE IN VERTICAL. SOLENOID VALVE SHALL BE IN NEMA 4 ENCLOSURE AND SHALL CLOSE UPON ACTIVATION OF FIRE ALARM PANEL.
3. PROVIDE PRESSURE REDUCING REGULATOR WITH OVER PRESSURE DEVICE. REGULATOR SHALL BE SIZED FOR 2 PSI MAX. INLET PRESSURE AND 11" W.C. OUTLET PRESSURE UNLESS OTHERWISE NOTED.

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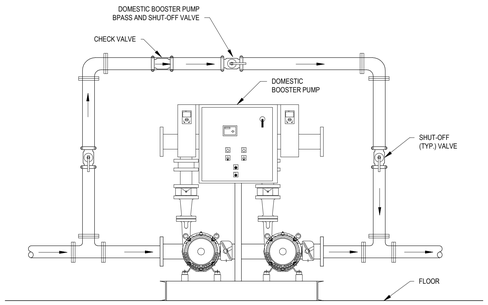
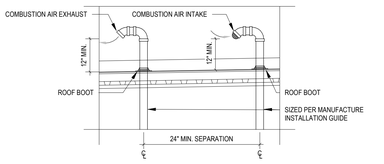


13 DOMESTIC BOOSTER PUMP BYPASS DETAIL
N.T.S.



14 DIRECT VENT THRU ROOF FOR GAS FIRED WATER HEATER
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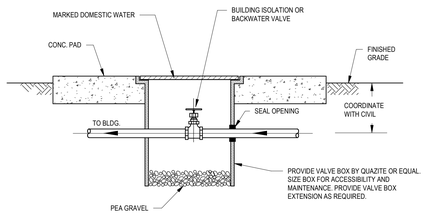
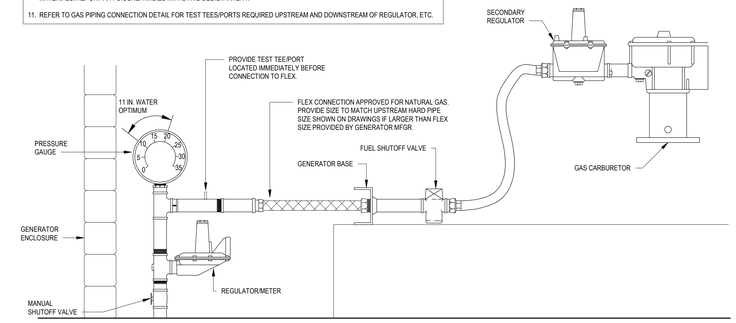


16 VALVEBOX DETAIL
N.T.S.

NOTES:

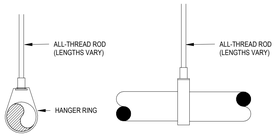
1. SET REGULATOR LEAVING PRESSURE TO MAXIMUM PRESSURE THAT WILL NOT EXCEED MAXIMUM ALLOWABLE PRESSURE AT GENERATOR INLET. VERIFY WITH GENERATOR INSTALLATION GUIDELINES.
2. SIZE REGULATOR PER GENERATOR MANUFACTURER INSTALLATION GUIDELINES (TYPICALLY 1.5 TIMES THE FULL LOAD GAS CONSUMPTION) AND TO MAXIMUM ALLOWABLE PRESSURE DROOP ACROSS REGULATOR AT ALL RUN CONDITIONS (TYPICALLY 1"- 2" W.C. PRESSURE DROOP).
3. LOCATE REGULATOR FROM GENERATOR INLET PER REGULATOR AND GENERATOR MANUFACTURERS' INSTALLATION GUIDELINES (TYPICALLY 10').
4. FITTINGS AND PIPE TRANSITIONS UPSTREAM OF REGULATOR SHALL BE LOCATED AWAY FROM REGULATOR INLET PER MANUFACTURER GUIDELINES (TYPICALLY 5 PIPE DIAMETERS MINIMUM).
5. FITTINGS AND PIPE TRANSITIONS DOWNSTREAM OF REGULATOR SHALL BE LOCATED AWAY FROM REGULATOR OUTLET PER MANUFACTURER GUIDELINES (TYPICALLY 10 PIPE DIAMETERS MINIMUM).
6. FLEXIBLE FUEL LINE SHALL NOT BE USED FOR ELBOWS OR TO CORRECT MISALIGNED PIPE SECTIONS. KEEP STRAIGHT AS POSSIBLE.
7. WHEN REGULATORS ARE MEDIUM PRESSURE RATED, PROVIDE ADDITION SHUTOFF VALVE BETWEEN REGULATOR AND GENERATOR.
8. PROVIDE DIRT LEG PRIOR TO REGULATOR.
9. INSTALL GAS PIPING AS STRAIGHT AS POSSIBLE TO MINIMIZE NUMBER OF FITTINGS.
10. CONTRACTOR SHALL REVIEW GENERATOR MANUFACTURER INSTALLATION GUIDELINES PRIOR TO INSTALL AND ORDERING OF MATERIALS. REPORT ANY DISCREPANCIES IMPACTING DESIGN INTENT.
11. REFER TO GAS PIPING CONNECTION DETAIL FOR TEST TEES/PORTS REQUIRED UPSTREAM AND DOWNSTREAM OF REGULATOR, ETC.



EMERGENCY GENERATOR GAS PIPING DETAIL

NTS.

12 EMERGENCY GENERATOR GAS PIPING DETAIL
N.T.S.



8 NON-INSULATED HANGER DETAIL
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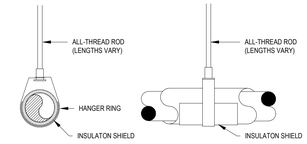

9 INSULATED HANGER DETAIL
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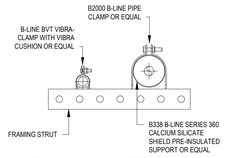

10 INSULATED & NON-INSULATED STRUT MOUNT DETAIL
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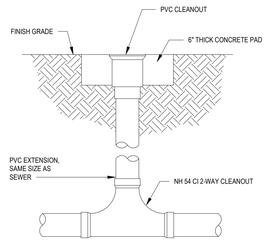

11 LISTED TWO WAY CLEANOUT FITTING DETAIL
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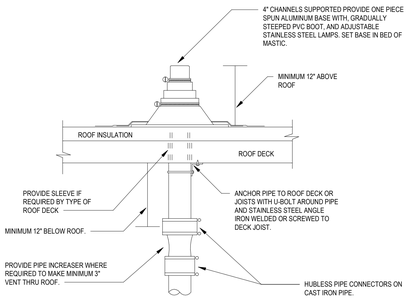
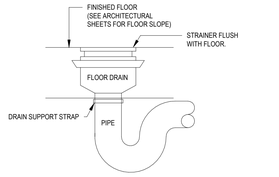


REFER TO PLANS FOR VTR PIPE SIZE AND LOCATIONS. LOCATE VENT THRU ROOF MINIMUM TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, AND ONE FOOT FROM ANY VERTICAL SURFACE. PROVIDE 1" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET ON VENT PIPE INSIDE BUILDING WITHIN SIX FEET OF VENT THRU ROOF LOCATION. VERIFY FLASHING AND COUNTER FLASH WITH ROOFING CONTRACTOR.

3 VENT THRU ROOF DETAIL - NO TURN DOWN FLASHING
N.T.S.



5 FLOOR DRAIN DETAIL
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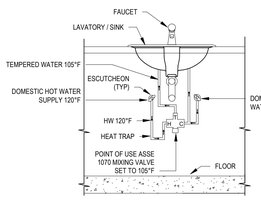
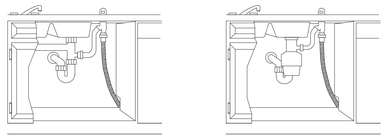


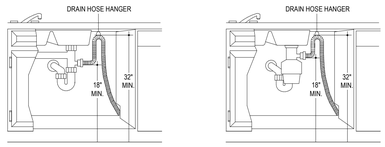
NOTE:
PROVIDE INSULATED COVERING ON ALL EXPOSED PIPING, AND P-TRAP. PIPE COVERING SHALL BE A MANUFACTURED COVERING SYSTEM. NO HAND WRAP SHALL BE ALLOWED.

4 ASSE 1070 POINT OF USE MIXING VALVE DETAIL - PLUMBING
N.T.S.

METHOD 1 – AIR GAP WITH WASTE TEE OR DISPOSER
AN AIR GAP MUST BE USED WHEN REQUIRED BY LOCAL CODES AND ORDINANCES. THE AIR GAP MUST BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.



METHOD 2 – "HIGH DRAIN LOOP" WITH WASTE TEE OR DISPOSER



6 DISHWASHER DISCHARGE DETAIL
N.T.S.

DRAIN REQUIREMENTS

- REFER TO MANUFACTURER'S INSTALLATION MANUAL.
- FOLLOW LOCAL CODES AND ORDINANCES.
- DO NOT EXCEED 12' DISTANCE TO DRAIN.
- DRAIN CONNECTION HEIGHT IS NOT TO EXCEED 72" ABOVE BOTTOM OF DISHWASHER

NOTE : AIR GAP MUST BE USED IF WASTE TEE OR DISPOSER CONNECTION IS LESS THAN 18" ABOVE FLOOR TO PREVENT SIPHONING.

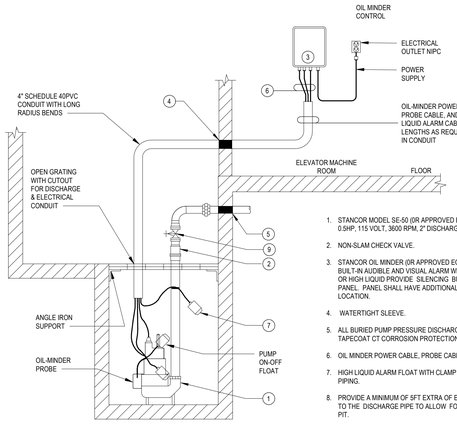
DETERMINE DRAIN METHOD

THE TYPE OF DRAIN INSTALLATION DEPENDS ON THE FOLLOWING QUESTIONS:

- DO LOCAL CODES OR ORDINANCES REQUIRE AN AIR GAP?
- IS WASTE TEE LESS THAN 18" ABOVE FLOOR?

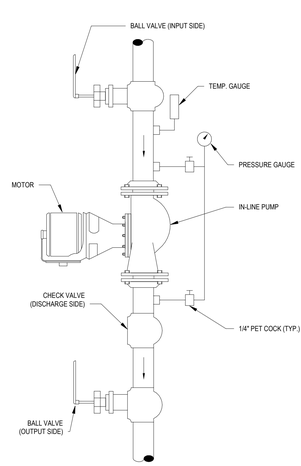
IF THE ANSWER TO EITHER QUESTION IS YES, METHOD 1 **MUST** BE USED.

- IF THE ANSWERS ARE NO, EITHER METHOD MAY BE USED.

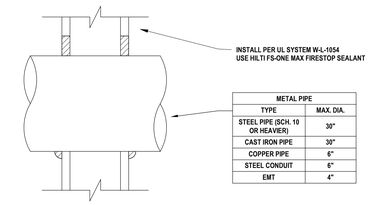


1. STANCOR MODEL SE-50 (OR APPROVED EQUAL) SUBMERSIBLE EFFLUENT PUMP 0.5HP, 115 VOLT, 3600 RPM, 2" DISCHARGE CONNECTION.
2. NON-SLAM CHECK VALVE.
3. STANCOR OIL MINDER (OR APPROVED EQUAL) 115V/1PH CONTROL SYSTEM WITH BUILT-IN AUDIBLE AND VISUAL ALARM WHEN PUMP DOES NOT RUN DUE TO OIL IN PIT OR HIGH LIQUID PROVIDE SILENCING BUTTON FOR AUDIBLE ALARM BUILT INTO PANEL. PANEL SHALL HAVE ADDITIONAL CONTACT FOR A REMOTE ALARM LOCATION.
4. WATERTIGHT SLEEVE.
5. ALL BURIED PUMP PRESSURE DISCHARGE PIPING SHALL BE PROTECTED WITH TAPECOAT CT CORROSION PROTECTION TAPE (OR APPROVED EQUAL).
6. OIL MINDER POWER CABLE, PROBE CABLE, AND HIGH LIQUID ALARM CABLE.
7. HIGH LIQUID ALARM FLOAT WITH CLAMP DEVICE TO MOUNT TO PUMP DISCHARGE PIPING.
8. PROVIDE A MINIMUM OF 5FT EXTRA OF EACH CABLE (SLACK) ROLLED AND CLAMPED TO THE DISCHARGE PIPE TO ALLOW FOR THE REMOVAL OF THE PUMP FROM THE PIT.
9. GATE VALVE.

7 ELEVATOR SUMP PUMP DETAIL
N.T.S.

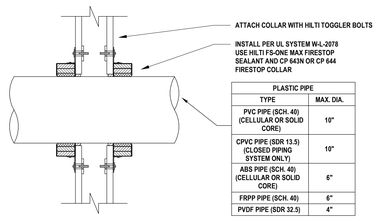


2 TYPICAL IN-LINE PUMP DETAIL
N.T.S.



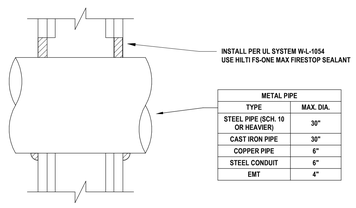
METAL PIPE	
TYPE	MAX. DIA.
STEEL PIPE (SCH. 10 OR HEAVIER)	30"
CAST IRON PIPE	30"
COPPER PIPE	6"
STEEL CONDUIT	6"
EMT	4"

METAL PIPE THROUGH GYPSUM WALL ASSEMBLY (1-HR.)
NTS



PLASTIC PIPE	
TYPE	MAX. DIA.
PVC PIPE (SCH. 40) (CELLULAR OR SOLID CORE)	10"
CPVC PIPE (SDR 13.5) (CLOSED PIPING SYSTEM ONLY)	10"
ABS PIPE (SCH. 40) (CELLULAR OR SOLID CORE)	6"
FRPP PIPE (SCH. 40)	6"
PVDF PIPE (SDR 32.5)	4"

PLASTIC PIPE THROUGH GYPSUM WALL ASSEMBLY (1-HR.)
NTS



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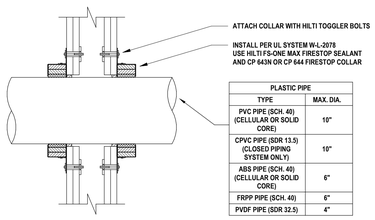
METAL PIPE THROUGH GYPSUM WALL ASSEMBLY (2-HR.)
NTS



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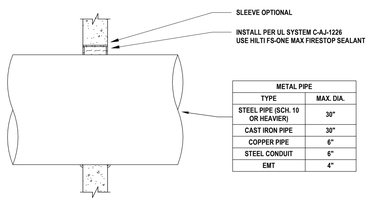
PLASTIC PIPE THROUGH GYPSUM WALL ASSEMBLY (2-HR.)
NTS

NOTE: DETAILS PROVIDED MAY NOT BE APPLICABLE TO ALL PENETRATIONS REQUIRED. CONTRACTOR SHALL COORDINATE FINAL STOP SYSTEM REQUIRED AT PIPE PENETRATIONS WITH PIPE MATERIAL TO BE INSTALLED AND FLOOR/WALL SYSTEM THAT IS PENETRATED. FIRE STOP SYSTEM SHALL BE COMPATIBLE WITH PIPE MATERIAL AND SHALL BE U.L. LISTED.



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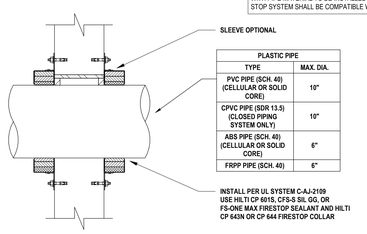
EMT	4"

METAL PIPE THROUGH CONCRETE WALL (2-HR.)
NTS



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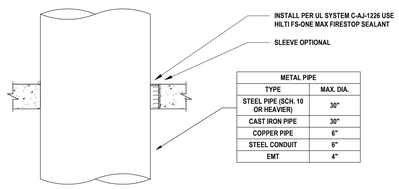
PLASTIC PIPE THROUGH CONCRETE WALL (2-HR.)
NTS



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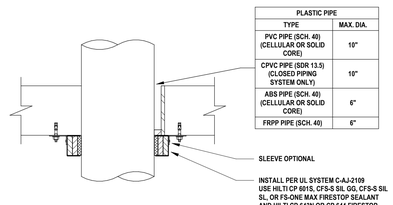
METAL PIPE THROUGH CONCRETE FLOOR (2-HR.)
NTS



PLASTIC PIPE	
TYPE	MAX. DIA.
PVC PIPE (SCH. 40) (CELLULAR OR SOLID CORE)	10"
CPVC PIPE (SDR 13.5) (CLOSED PIPING SYSTEM ONLY)	10"
ABS PIPE (SCH. 40) (CELLULAR OR SOLID CORE)	6"
FRPP PIPE (SCH. 40)	6"

PLASTIC PIPE THROUGH CONCRETE FLOOR (2-HR.)
NTS

1 UL FIRE PENETRATIONS
N.T.S.

FILE NAME: Autodesk Docs://_1007657.00 - CORE - City of Riviera Beach D/RBPD_MEPF_R24.rvt
DATE STAMP: 10/23/2025 8:51:16 AM

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

ARCHITECT OF RECORD

PGAL, Inc.
791 Park of Commerce Blvd.
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West Palm Beach
FL 33409

PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

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600 S. ORLANDO AVE
MAITLAND, FL 32751
FL REG. NO.: PE57743

DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

CMTA
A LEIDOS Company
4 Harvard Cir, Suite 600 | West Palm Beach, FL 33409
561.688.6575 | cmta.com

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

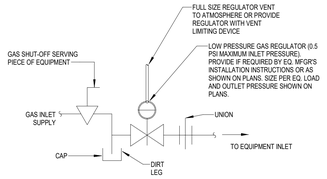
PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

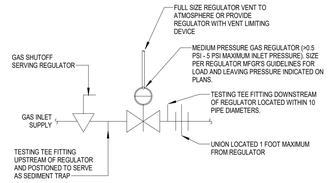
PROJECT NUMBER
1007657.00

SHEET TITLE
DETAILS - PLUMBING

SHEET NUMBER
P5.01



2 GAS PIPING EQUIPMENT CONNECTION DETAIL
N.T.S.



3 INLINE GAS MEDIUM PRESSURE REGULATOR DETAIL DETAIL
N.T.S.

SPECIFICATION NOTES

(1) 4" FPT inlet/outlet with 4" plain end fittings
(2) Unit weight: 78 lbs. For wet weight, add 542 lbs. For traffic-rated cover(s), add 90 lbs per cover. For pedestrian cover(s), add 7 lbs per cover.
(3) Maximum operating temperature: 150° F continuous
(4) Liquid Capacity: 65 gal
Grease Capacity (50 GPM): 439 lbs (60 gal)
Grease Capacity (75 GPM): 287 lbs (43 gal)
Solids Capacity: 13 gal
(5) For gravity drainage applications only
(6) Do not use for pressure applications
(7) Cover placement allows full access to tank for proper maintenance
(8) Vent not required unless per local code
(9) Engineered inlet and outlet diffusers with inspection ports are removable to inspect / clean piping
(10) Integral air relief / Anti-siphon / Sampling access
(11) Cover adapters provide an adjustable height range of 5"
(12) Designed for below-grade, above-grade, indoor or outdoor installations
(13) Safety Star® (450 lbs load capacity) is an access restrictor built into each cover adapter to prevent accidental entry into tanks

CERTIFIED PERFORMANCE

Great Basin® hydromechanical grease interceptors are third party performance-tested and listed by IAPMO to ASME A112.14.3 and CSA B481.1 grease interceptor standards and greatly exceed requirements for grease separation and storage. They are compliant to the Uniform Plumbing Code and the International Plumbing Code.

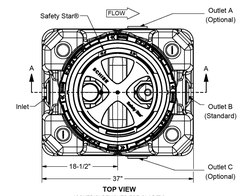
ENGINEER SPECIFICATION GUIDE

Schier Great Basin® grease interceptor model GB-50 shall be lifetime guaranteed and made in USA of seamless, molded polyethylene with minimum 3/8" uniform wall thickness. Interceptor shall be furnished for above or below-grade installation with adjustable cover adapter, Safety Star® access restrictor built into each cover adapter, and three outlet options. This unit is certified for hydromechanical performance to ASME A112.14.3 (Type D) and CSA B481.1. Interceptor flow rate shall be 50 GPM or 75 GPM. Interceptor grease capacity shall be 439 lbs.

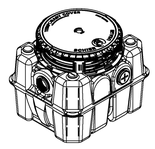
COVERS SOLD SEPARATELY

This unit is provided with temporary cover(s) intended for the duration of jobsite installation. Purchase one of the following finish covers.

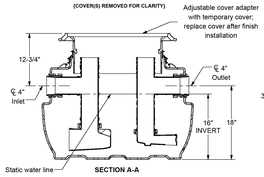
- T24-GI (8044-000-01): Traffic-rated (AASHTO H-20) cast iron cover shall provide water/gas-tight seal and have a minimum of 16,000 lbs load capacity. For outdoor installation.
- P24-GI (8045-000-01): Pedestrian-rated poly cover shall provide water/gas-tight seal and have a minimum of 2,000 lbs load capacity. For indoor installation.



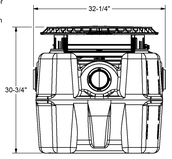
TOP VIEW
(COVER(S) REMOVED FOR CLARITY)



ISOMETRIC VIEW



SECTION A-A



INLET END VIEW

SPECIFICATION SHEET

SCHIER 6455 Woodland Dr Shawnee, KS 66218 tel: 913-951-3300 fax: 913-951-3399 schierproducts.com Made in the U.S.A.	MODEL NUMBER	GB-50		
	PART NUMBER	4025-300-01		
	DESCRIPTION	GB-50 GREASE INTERCEPTOR 50 GPM / 75 GPM, 4" PLAIN/FPT CONNECTIONS		
	DRAWN BY	C.FINCHAM		
	DATE	05/20/2025	REV A	ECO 00108

PROPRIETARY AND CONFIDENTIAL. THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SCHIER PRODUCTS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SCHIER PRODUCTS IS PROHIBITED.

1 GREASE INTERCEPTOR DETAIL (GI-1)
N.T.S.

GREASE INTERCEPTOR CALCULATIONS

Quote: 39ABBC79

Reference No. 91704 — Project Name: Riviera Police

Step 1: Flow rate to grease interceptor

Fixture flow rate: (cu in / 231) = gal x 0.75 / 2 min = 2 min flow rate

NAME	TYPE	DIMENSIONS	QTY	CU IN	FLOW RATE
Hand Sink	Hand Sink	10" x 14" x 5"	1	700	1.14 GPM
Total					**1.14 GPM**

Step 2: Grease Production

Total square feet x 60% = Dining area

Dining area / 14 Sq ft per seat x 4 turns per seat per day x [Grease Production Value] x [Days between pump-out] = Grease output

Amount of square feet in facility: 528
Grease production value: 0.005 lbs per serving (Convenience Store: Low / No flatware)
Days between pump-outs: 90 days

(528 x .6) / 14 x 4 x 0.005 x 90 = 40.731 lbs of FOG

SCHIER MODEL	
GB-50	**Description:** GREASE INTERCEPTOR 50 GPM / 75 GPM, 4" PLAIN/FPT CONNECTIONS **Dimensions:** Length: 37", Width: 32.25", Height: 28.5" **Flow Rate/Grease Capacity:** 50 GPM / 439 lbs **Liquid Capacity:** 65 gal

Specification Note: This Great Basin model has been sized to the flow rate and grease production requirements of the application and may not be substituted by liquid capacity alone. Any substitution requests must be approved by the specifying engineer and the authority having jurisdiction.

Please contact support@schierproducts.com for technical and procurement support for the specified Great Basin model.

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

ARCHITECT OF RECORD

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32750

REGISTRATION

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600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL REG. NO. 79374

DRAWING HISTORY

№	DATE	DESCRIPTION
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

CMTA
A LEGENCE Company
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561.688.6575 | cmta.com

PROJECT STATUS

90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

1007657.00

SHEET TITLE

DETAIL -PLUMBING

SHEET NUMBER

P5.02

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/RBPD_MEPF_R24.rvt
DATE STAMP: 10/23/2025 8:51:22 AM

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE DESCRIPTION	MANUFACTURES MODEL	FAUCET/ FLUSH VALVE MODEL	FIXTURE CONNECTION SIZES					ACCESSORIES
				C.W.	H.W.	MIXED	WASTE	VENT	
WC-1	WATER CLOSET FLOOR SET RIGHT HEIGHT FLUSH VALVE	AMERICAN STANDARD #3451.001	SLOAN ROYAL #111-ESS-HW-TMO (1.28)	1"	-	-	4"	2"	PROVIDE HEAVY DUTY OPEN FRONT SEAT: AMERICAN STANDARD #5901.100SS.
WC-2	WATER CLOSET FLOOR SET ADA FLUSH VALVE	AMERICAN STANDARD #3461.001	SLOAN ROYAL #111-ESS-TMO (1.28)	1"	-	-	4"	2"	PROVIDE HEAVY DUTY OPEN FRONT SEAT: AMERICAN STANDARD #5901.100SS.
WC-3	SECURITY WATER CLOSET UNIT BOTTOM OUTLET	ACORN #1695-T-3	SLOAN ROYAL #111 (1.28)	1"	-	-	4"	2"	PROVIDE SLOAN SOLID RING SUPPLY PIPE WALL SUPPORT.
WC-4	SECURITY WATER CLOSET/LAVATORY COMBINATION UNIT BOTTOM OUTLET	ACORN #1420FA-2-MVC2-PBH-TF-1.28-MVCFV-CF-LPFV-SW	-	1"	-	-	4"	2"	-
L-1	LAVATORY WALL HUNG	AMERICAN STANDARD #0614.300	T & S BRASS #ECW3158	1/2"	-	1/2"	1-1/2"	1-1/2"	PROVIDE WITH OFFSET GRID STRAINER, PROVIDE CHROME PLATED WALL NIPPLE & ESCUTCHEONS, MCGUIRE 2165 CHROME PLATED ANGLE STOP, MCGUIRE 8872 P-TRAP & CLEANOUT PLUG. PROVIDE 0.5 GPM AERATOR. PROVIDE LAWLER THERMOSTATIC MIXING VALVE TMM #1070 SET TO 105° F. MAX.
L-2	LAVATORY WALL HUNG ADA	AMERICAN STANDARD #0355.012	T & S BRASS #ECW3158	1/2"	-	1/2"	1-1/2"	1-1/2"	PROVIDE WITH OFFSET GRID STRAINER, PROVIDE CHROME PLATED WALL NIPPLE & ESCUTCHEONS, MCGUIRE 2165 CHROME PLATED ANGLE STOP, MCGUIRE 8872 P-TRAP & CLEANOUT PLUG. PROVIDE 0.5 GPM AERATOR. PROVIDE LAWLER THERMOSTATIC MIXING VALVE TMM #1070 SET TO 105° F. MAX.
L-3	LAVATORY WALL HUNG ADA	ACORN #1653FALRB-1-DMS-04	-	1/2"	-	1/2"	1-1/2"	1-1/2"	PROVIDE WITH OFFSET GRID STRAINER, PROVIDE CHROME PLATED WALL NIPPLE & ESCUTCHEONS, MCGUIRE 2165 CHROME PLATED ANGLE STOP, MCGUIRE 8872 P-TRAP & CLEANOUT PLUG. PROVIDE 0.5 GPM AERATOR. PROVIDE LAWLER THERMOSTATIC MIXING VALVE TMM #1070 SET TO 105° F. MAX.
S-1	SINK DROP IN	ELKAY #DLRQ221910	CHICAGO FAUCET #786-245ABCP	1/2"	1/2"	-	1-1/2"	1-1/2"	PROVIDE WITH GRID STRAINER, CHROME PLATED WALL NIPPLE & ESCUTCHEONS, MCGUIRE 2165 CHROME PLATED ANGLE STOP, MCGUIRE 8872 P-TRAP & CLEANOUT PLUG.
S-2	SINK DROP IN	AMERICAN STANDARD #0476.028	CHICAGO FAUCET #410-E2805ABCP	1/2"	1/2"	-	1-1/2"	1-1/2"	PROVIDE WITH GRID STRAINER, CHROME PLATED WALL NIPPLE & ESCUTCHEONS, MCGUIRE 2165 CHROME PLATED ANGLE STOP, MCGUIRE 8872 P-TRAP & CLEANOUT PLUG.
S-3	KITCHEN SINK DROP IN	ELKAY #DLR3322103-R2	CHICAGO FAUCET #2302-GN8AE73ABCP	1/2"	1/2"	-	1-1/2"	1-1/2"	PROVIDE WITH BASKETSTRAINER, CHROME PLATED WALL NIPPLE & ESCUTCHEONS, MCGUIRE 2165 CHROME PLATED ANGLE STOP, MCGUIRE 8872 P-TRAP & CLEANOUT PLUG.
S-4	KITCHEN SINK WALL HUNG	ELKAY #ELV2219-3	T & S BRASS #EC-3100-5XP1ST4	1/2"	1/2"	-	1-1/2"	1-1/2"	PROVIDE CHROME PLATED WALL NIPPLE & ESCUTCHEONS, MCGUIRE 2165 CHROME PLATED ANGLE STOP, MCGUIRE 8872 P-TRAP & CLEANOUT PLUG.
S-5	SINK DROP IN	ELKAY #DLRQ1716010	CHICAGO FAUCET #WAD-DB6AE1-317ABCP	1/2"	1/2"	-	1-1/2"	1-1/2"	PROVIDE CHROME PLATED WALL NIPPLE & ESCUTCHEONS, MCGUIRE 2165 CHROME PLATED ANGLE STOP, MCGUIRE 8872 P-TRAP & CLEANOUT PLUG.
S-6	SINK WALL HUNG	ELKAY #ELWW2219-1	T & S BRASS #B-0520-B-0199-01-WS	1/2"	1/2"	-	1-1/2"	1-1/2"	PROVIDE CHROME PLATED WALL NIPPLE & ESCUTCHEONS, MCGUIRE 2165 CHROME PLATED ANGLE STOP, MCGUIRE 8872 P-TRAP & CLEANOUT PLUG. PROVIDE T & S BRASS FOOT PEDAL VALVES #B-0504.
S-7	SINK WALL HUNG	ELKAY #ELV2219-3	CHICAGO FAUCET #WAD-DB6AE1-317ABCP	1/2"	1/2"	-	1-1/2"	1-1/2"	PROVIDE CHROME PLATED WALL NIPPLE & ESCUTCHEONS, MCGUIRE 2165 CHROME PLATED ANGLE STOP, MCGUIRE 8872 P-TRAP & CLEANOUT PLUG.
SH-1	SHOWER	TILED SHOWER COMPARTMENT BY ARCHITECT	AMERICAN STANDARD #TU662SG.213	1/2"	1/2"	-	2"	2"	-
SH-2	SHOWER ADA	TILED SHOWER COMPARTMENT BY ARCHITECT	AMERICAN STANDARD #TU662SG.223	1/2"	1/2"	-	2"	2"	-
MS-1	MOP SINK 24" X 24"	FIAT MSB 2424	FIAT 830-AA	3/4"	3/4"	-	3"	2"	FIAT #889-CC MOP HANGER, FIAT #832-AA HOSE & HOSE BRACKET, FIAT #E-88-AA BUMPER GUARD & FIAT #MSG2424 WALL GUARD
EWC-1	ELECTRIC WATER COOLER BI-LEVEL WITH BOTTLE FILLER	ELKAY LZSTL8WSSK	-	1/2"	-	-	1-1/2"	1-1/2"	-
EEWSH-1	EMERGENCY EYE/SHOWER WASH	HAWS #8300-8309	-	1-1/4"	-	-	2"	1-1/2"	-
EEW-1	EMERGENCY EYE/FACE WASH	HAWS #7610	-	1/2"	-	-	-	-	-
DWMC-1	DOMESTIC WATER MANAGEMENT CONTROLLER	ACORN MASTER-TROL #MVC2-TF-ENG-017-1	-	-	-	-	-	-	-

NOTES:

- FIXTURE TO BE WHITE IN COLOR UNLESS OTHERWISE NOTED.
- ADA WATER CLOSETS SHALL HAVE FLUSH HANDLE ON WIDE SIDE OF TOILET STALL. COORDINATE FLUSH VALVE WITH GRAB BARS.
- ADA LAVATORIES AND SINKS SHALL HAVE TRAP INSULATION KIT TO COVER P-TRAP AND SUPPLIES.
- ADA FIXTURES MOUNTING HEIGHT PER LOCAL, STATE HANDICAP CODES.
- CONTRACTOR TO PROVIDE TRAP, CARRIER, SUPPLIES LINES, AND DRAINS REQUIRED BY FIXTURES.

GAS WATER HEATER SCHEDULE

MARK	FIXTURE DESCRIPTION	MANUFACTURES MODEL	GALLON CAPACITY	TYPE OF GAS/ BTU/HR	SET TEMPERATURE	ELECTRICAL DATA			ACCESSORIES
						VOLT	PHASE	HZ	
GWH-1	GAS WATER HEATER	AO. SMITH BTH-120 FLEX	60	NATURAL GAS 120,000	140°	120	1	60	PROVIDE CONCENTRIC VENT KIT #9006144005. PROVIDE CONDENSATE KIT.

NOTES:

- PROVIDE ALL GAUGES, HEAT TRAPS, THERMOSTATS, TEMPERATURE AND PRESSURE RELIEF VALVES AND SHUT-OFF VALVES AS REQUIRED BY LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS.
- FLOOR MOUNTED HEATERS SHALL BE INSTALLED ON A 4" CONCRETE HOUSE KEEPING PAD.

RECIRCULATION PUMP SCHEDULE

MARK	FIXTURE DESCRIPTION	MANUFACTURES MODEL	WATTS/HP	RPM	GPM/TDH	ELECTRICAL DATA			ACCESSORIES
						VOLT	PHASE	HZ	
RCP-1	RECIRCULATION PUMP	GRUNDFOS #MAGNA 1 32-60 GF	107W/1.8HP	3516	9.5/17	115	1	60	-

NOTES:

- PROVIDE ALL GAUGES, UNIONS, THERMOSTATS, VALVES AND SHUT-OFF VALVES AS REQUIRED BY LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS.
- COORDINATE WITH DIVISION 26 CONTRACTOR.
- PUMP SHALL BE ALL BRONZE WITH FLANGE CONNECTION.

PLUMBING EQUIPMENT SCHEDULE

MARK	FIXTURE DESCRIPTION	MANUFACTURES MODEL	ACCESSORIES / NOTES
FCO	FLOOR CLEANOUT	WATTS CO-200-R	-
WCO	WALL CLEANOUT	WATTS CO-590-RD	-
ECO	EXTERIOR FLOOR CLEANOUT	WATTS CO-200-RX-4	-
HB-1	HOSE BIB	WOODFORD #24	INCLUDES VACUUM BREAKER. MOUNT @ 18" AFF.
WH-1	WALL HYDRANT	WOODFORD #B67	INCLUDES VACUUM BREAKER & TWO (2) SETS OF LOOSE KEYS. MOUNT @ 18" AFG.
FD-1	FLOOR DRAIN	ZURN #ZN415B-VP	PROVIDE BARRIER TRAP SEAL PROTECTION DEVICE (ASSE 1072). JAY R. SMITH QUAD CLOSE TRAP SEAL OR APPROVED EQUAL.
FD-2	FLOOR DRAIN HEAVY DUTY	ZURN #ZN520-VP	PROVIDE BARRIER TRAP SEAL PROTECTION DEVICE (ASSE 1072). JAY R. SMITH QUAD CLOSE TRAP SEAL OR APPROVED EQUAL.
FD-3	FLOOR DRAIN HEAVY DUTY	ZURN #ZN415B-HD-VP	PROVIDE BARRIER TRAP SEAL PROTECTION DEVICE (ASSE 1072). JAY R. SMITH QUAD CLOSE TRAP SEAL OR APPROVED EQUAL.
HD-1	HUB DRAIN	WATTS #FD-1100-ER	-
RD-1	ROOF DRAIN	ZURN #ZC100F	-
OD-1	ROOF DRAIN OVERFLOW	ZURN #ZC100F-89	-
DN-1	DOWNSPOUT NOZZLE	ZURN #Z199-DC	-
IMB-1	ICE MAKER BOX	OATEY 39140	-
AAV-1	AIR ADMITTANCE VALVE	STUDOR MINI-VENT	-
CS-1	THERMOSTATIC BALANCING VALVE	CIRCUIT SOLVER #CASIAS-1/2-110-CV1	INCLUDES BALL VALVES, STRAINER & CHECK VALVE.
ET-1	EXPANSION TANK	WATTS #DETA 5	-
GI-1	GREASE INTERCEPTOR	SHIER GB-50	PROVIDE H20 RATED PICKABLE CAST IRON COVER AND AK1 HIGH WATER ANCHOR KIT. INSTALL PER MFGR'S RECOMMENDATION.
RH-1	ROOF HYDRANT	WOODFORD #RHY1	-
ESP-1	ELEVATOR SUMP PUMP	STANCOR OIL MINDER SE-50	1/2 HP, 115 VOLT, 1 PH. PROVIDE MINIMUM 24"X24"X24" DEEP SUMP. REFER TO PLANS FOR LOCATION OF CONTROL PANEL. COORDINATE LOCATION WITH OWNER PRIOR TO INSTALLATION.

SHOCK ARRESTOR SCHEDULE

DESIGNATION	MANUFACTURER	SERIES	FIXTURE UNITS
A	WATTS	LF15M2-A	1-11
B	WATTS	LF15M2-B	12-32
C	WATTS	LF15M2-C	33-60
D	WATTS	LF15M2-D	61-113
E	WATTS	LF15M2-E	114-154
F	WATTS	LF15M2-F	155-330

DOMESTIC BOOSTER PUMP SCHEDULE

MARK	FIXTURE DESCRIPTION	MANUFACTURES MODEL	SYSTEM CAPACITY				MOTOR			ELECTRICAL DATA		
			BOOST	NUM. OF MOTORS	HEADER SIZE	GPM	MODEL	HP	GPM	VOLT	PHASE	HZ
BP-1	TRIPLEX BOOSTER PUMP	GRUNDFOS HYDRO MCP E 3CRE15-2	25 PSI	3	3"	140	CRE15-2	5	70	480	3	60

NOTES:

- MOUNT UNIT ON A 6" CONCRETE HOUSE KEEPING PAD
- PROVIDE BOOSTER WITH A LOW WATER PRESSURE CUT OFF SENSOR.
- REFER TO DETAIL SHEET P1/5/P5.01 FOR ADDITIONAL INFORMATION

10144135535

GAS PIPING INSTALLATIONS

TABLE 402.4(5)
SCHEDULE 40 METALLIC PIPE

Gas	Natural
Inlet Pressure	2.0 psi
Pressure Drop	1.0 psi
Specific Gravity	0.60

PIPE SIZE (inch)									
Nominal	3/8	1/2	1	1 1/4	1 1/2	2	2 1/2	3	4
Actual ID	0.622	0.824	1.049	1.380	1.610	2.067	2.469	3.068	4.026
Length (ft)	Capacity in Cubic Feet of Gas Per Hour								
10	1,510	3,040	5,560	11,400	17,100	32,900	52,500	92,800	189,000
20	1,070	2,150	3,930	8,070	12,100	23,300	37,100	65,600	134,000
30	869	1,760	3,210	6,590	9,880	19,000	30,300	53,600	109,000
40	753	1,520	2,780	5,710	8,550	16,500	26,300	46,400	94,700
50	673	1,360	2,490	5,110	7,650	14,700	23,500	41,500	84,700
60	615	1,240	2,270	4,660	6,980	13,500	21,400	37,900	77,300
70	569	1,150	2,100	4,320	6,470	12,500	19,900	35,100	71,600
80	532	1,080	1,970	4,040	6,050	11,700	18,600	32,800	67,000
90	502	1,010	1,850	3,810	5,700	11,000	17,500	30,900	63,100
100	462	934	1,710	3,510	5,260	10,100	16,100	28,500	58,200
125	414	836	1,530	3,140	4,700	9,060	14,400	25,500	52,100
150	372	751	1,370	2,820	4,220	8,130	13,000	22,900	46,700
175	344	695	1,270	2,601	3,910	7,530	12,000	21,200	43,300
200	318	642	1,170	2,410	3,610	6,960	11,100	19,600	40,000
250	279	583	1,040	2,140	3,210	6,180	9,850	17,400	35,500
300	253	528	945	1,940	2,910	5,600	8,920	15,800	32,200
350	232	486	869	1,790	2,670	5,150	8,210	14,500	29,600
400	216	452	809	1,660	2,490	4,790	7,640	13,500	27,500
450	203	424	759	1,560	2,330	4,500	7,170	12,700	25,800
500	192	401	717	1,470	2,210	4,250	6,770	12,000	24,400
550	182	381	681	1,400	2,090	4,030	6,430	11,400	23,200
600	174	363	650	1,330	2,000	3,850	6,130	10,800	22,100
650	166	348	622	1,280	1,910	3,680	5,870	10,400	21,200
700	160	334	598	1,230	1,840	3,540	5,640	9,970	20,300
750	154	322	576	1,180	1,770	3,410	5,440	9,610	19,600
800	149	311	556	1,140	1,710	3,290	5,250	9,280	18,900
850	144	301	538	1,100	1,650	3,190	5,080	8,980	18,300
900	139	292	522	1,070	1,600	3,090	4,930	8,710	17,800
950	135	283	507	1,040	1,560	3,000	4,780	8,460	17,200
1,000	132	275	493	1,010	1,520	2,920	4,650	8,220	16,800
1,100	125	262	468	960	1,440	2,770	4,420	7,810	15,900
1,200	119	250	446	917	1,370	2,640	4,220	7,450	15,200
1,300	114	239	427	878	1,320	2,530	4,040	7,140	14,600
1,400	110	230	411	843	1,260	2,430	3,880	6,860	14,000
1,500	106	221	396	812	1,220	2,340	3,740	6,600	13,500
1,600	102	214	382	784	1,180	2,260	3,610	6,380	13,000
1,700	99	207	370	759	1,140	2,190	3,490	6,170	12,600
1,800	96	200	358	736	1,100	2,120	3,390	5,980	12,200
1,900	93	195	348	715	1,070	2,060	3,290	5,810	11,900
2,000	91	189	339	695	1,040	2,010	3,200	5,650	11,500

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound per square inch = 6.895 kPa, 1-inch water column = 0.2488 kPa,
1 British thermal unit per hour = 0.2931 W, 1 cubic foot per hour = 0.0283 m³/h, 1 degree = 0.01745 rad.
Note: All table entries have been rounded to three significant digits.

FLORIDA BUILDING CODE — FUEL GAS, 8th EDITION (2023)
INTERNATIONAL CODE COUNCIL
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10144135535

GAS PIPING INSTALLATIONS

TABLE 402.4(2)
SCHEDULE 40 METALLIC PIPE

Gas	Natural
Inlet Pressure	Less than 2 psi
Pressure Drop	0.5 in. w.c.
Specific Gravity	0.60

PIPE SIZE (inch)												
Nominal	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12
Actual ID	0.622	0.824	1.049	1.380	1.610	2.067	2.469	3.068	4.026	5.047	6.065	7.981	10.020	11.938
Length (ft)	Capacity in Cubic Feet of Gas Per Hour													
10	172	360	678	1,390	2,090	4,020	6,400	11,300	23,100	41,800	67,600	139,000	252,000	399,000
20	118	247	466	957	1,430	2,760	4,400	7,780	15,900	28,700	46,500	95,500	173,000	275,000
30	95	199	374	768	1,150	2,220	3,530	6,250	12,700	23,000	37,300	76,700	139,000	220,000
40	81	170	320	657	985	1,900	3,020	5,350	10,900	19,700	31,900	65,600	119,000	189,000
50	72	151	284	583	873	1,680	2,680	4,740	9,660	17,500	28,300	58,200	106,000	167,000
60	65	137	257	528	791	1,520	2,430	4,290	8,760	15,800	25,600	52,700	95,700	152,000
70	60	126	237	486	728	1,400	2,230	3,950	8,050	14,600	23,600	48,500	88,100	139,000
80	56	117	220	452	677	1,300	2,080	3,670	7,490	13,600	22,000	45,100	81,900	130,000
90	52	110	207	424	635	1,220	1,950	3,450	7,030	12,700	20,600	42,300	76,900	122,000
100	50	104	195	400	600	1,160	1,840	3,260	6,640	12,000	19,500	40,000	72,600	115,000
125	44	92	173	355	532	1,020	1,630	2,890	5,890	10,600	17,200	35,400	64,300	102,000
150	40	83	157	322	482	928	1,480	2,610	5,330	9,650	15,600	32,100	58,300	92,300
175	37	77	144	296	443	854	1,360	2,410	4,910	8,880	14,400	29,500	53,600	84,900
200	34	71	134	275	412	794	1,270	2,240	4,560	8,260	13,400	27,500	49,900	79,000
250	30	63	119	244	366	704	1,120	1,980	4,050	7,320	11,900	24,300	44,200	70,000
300	27	57	108	221	331	638	1,020	1,800	3,670	6,630	10,700	22,100	40,100	63,400
350	25	53	99	203	305	587	935	1,650	3,370	6,100	9,880	20,300	36,900	58,400
400	23	49	92	189	283	546	870	1,540	3,140	5,680	9,190	18,900	34,300	54,300
450	22	46	86	177	266	512	816	1,440	2,940	5,330	8,620	17,700	32,200	50,900
500	21	43	82	168	251	484	771	1,360	2,780	5,030	8,150	16,700	30,400	48,100
550	20	41	78	159	239	459	732	1,290	2,640	4,780	7,740	15,900	28,900	45,700
600	19	39	74	152	228	438	699	1,240	2,520	4,560	7,380	15,200	27,500	43,600
650	18	38	71	145	218	420	669	1,180	2,410	4,360	7,070	14,500	26,400	41,800
700	17	36	68	140	209	403	643	1,140	2,320	4,190	6,790	14,000	25,300	40,100
750	17	35	66	135	202	389	619	1,090	2,230	4,040	6,540	13,400	24,400	38,600
800	16	34	63	130	195	375	598	1,060	2,160	3,900	6,320	13,000	23,600	37,300
850	16	33	61	126	189	363	579	1,020	2,090	3,780	6,110	12,600	22,800	36,100
900	15	32	59	122	183	352	561	992	2,020	3,660	5,930	12,200	22,100	35,000
950	15	31	58	118	178	342	545	963	1,960	3,550	5,760	11,800	21,500	34,000
1,000	14	30	56	115	173	333	530	937	1,910	3,460	5,600	11,500	20,900	33,100
1,100	13	28	53	109	164	316	503	890	1,820	3,280	5,320	10,900	19,800	31,400
1,200	13	27	51	104	156	301	480	849	1,730	3,130	5,070	10,400	18,900	30,000
1,300	12	26	49	100	150	289	460	813	1,660	3,000	4,860	9,980	18,100	28,700
1,400	12	25	47	96	144	277	442	781	1,590	2,880	4,670	9,590	17,400	27,600
1,500	11	24	45	93	139	267	426	752	1,530	2,780	4,500	9,240	16,800	26,600
1,600	11	23	44	89	134	258	411	727	1,480	2,680	4,340	8,920	16,200	25,600
1,700	11	22	42	86	130	250	398	703	1,430	2,590	4,200	8,630	15,700	24,800
1,800	10	22	41	84	126	242	386	682	1,390	2,520	4,070	8,370	15,200	24,100
1,900	10	21	40	81	122	235	375	662	1,350	2,440	3,960	8,130	14,800	23,400
2,000	NA	20	39	79	119	229	364	644	1,310	2,380	3,850	7,910	14,400	22,700

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound per square inch = 6.895 kPa, 1-inch water column = 0.2488 kPa,
1 British thermal unit per hour = 0.2931 W, 1 cubic foot per hour = 0.0283 m³/h, 1 degree = 0.01745 rad.

Notes:
1. NA means a flow of less than 10 cfh.
2. All table entries have been rounded to three significant digits.

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DATE STAMP: 10/23/2025 8:51:29 AM

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DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

CMTA
A LEGENCE Company
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561.688.6575 | cmta.com

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
SCHEDULES - PLUMBING

SHEET NUMBER
P6.01

GENERAL LEGEND AND SYMBOLS

- PIPE UP THROUGH PLAN
- PIPE DOWN THROUGH PLAN
- DIRECTION OF FLOW IN PIPE
- PIPE UP
- PIPE DOWN
- G — PIPE GUIDE
- FLEXIBLE PIPE CONNECTOR
- SUPPLY DIFFUSER
- SUPPLY PLAQUE DIFFUSER
- RETURN AIR GRILLE
- EXHAUST AIR GRILLE
- XX — RIGID DUCTWORK (WIDTH/DEPTH)
- ELBOW WITH TURNING VANES
- MANUAL SPLITTER DAMPER
- FLEXIBLE DUCT WITH SPIN-IN FITTING AND MANUAL VOLUME DAMPER
- MANUAL VOLUME DAMPER
- X — KEYNOTE DESIGNATION
- ΔT — DELTA T (TEMPERATURE DIFFERENCE)
- CD — CONDENSATE DRAIN LINE
- R — REFRIGERANT LINES
- FD — FIRE DAMPER
- BDD — BACKDRAFT DAMPER
- MVD — MOTORIZED VOLUME DAMPER
- SD — SMOKE DAMPER
- T — THERMOSTAT
- H — HUMIDISTAT
- SD — DUCT MOUNTED SMOKE DETECTOR
- S CO — CARBON MONOXIDE SENSOR (MOUNT @36" A.F.F.)
- S CO_2 — CARBON DIOXIDE SENSOR (MOUNT @60" A.F.F.)
- BP — BIPOLAR IONIZATION UNIT
- 1 / M-0 — DETAIL OR RISER DESIGNATION / SHEET WHERE DETAIL OR RISER APPEAR

NOTE:
ALL STANDARD SYMBOLS AND ABBREVIATIONS MAY NOT APPEAR ON THE PROJECT DRAWINGS.

ABBREVIATIONS

SYMBOL	DESCRIPTION
AC	AIR CONDITIONING
ACS	AUTOMATIC CONTROL SYSTEM
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AMP	AMPERES
AP	ACCESS PANEL
APPROX	APPROXIMATELY
ARCH	ARCHITECTURAL
AUTO	AUTOMATIC
AUX	AUXILIARY
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BP	BIPOLAR IONIZATION UNIT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
BWV	BACK WATER VALVE
CAM	COMMON AREA MAINTENANCE
CC	COOLING COIL
CCP	CENTRAL CONTROL PANEL
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COMB	COMBINATION
COMPR	COMPRESSOR
COND	CONDENSATE OR CONDENSER
CONT	CONTINUATION
CU FT	CUBIC FEET
CUH	CABINET UNIT HEATER
CU IN	CUBIC INCHES
CW	DOMESTIC COLD WATER
D	DRAIN LINE
DB	DRY BULB
DEG	DEGREES
DG	DOOR GRILLE
DHC	DUCT HEATING COIL
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRIC CONNECTOR
ECO	EXTERIOR CLEANOUT
EDB	ENTERING DRY BULB TEMPERATURE
EEW	EMERGENCY EYE WAS/SHOWER
EF	EXHAUST FAN
EL	ELEVATION
ELEC	ELECTRIC
EQ	EQUAL
EVAP	EVAPORATOR
EWB	ENTERING WET BULB TEMPERATURE
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST AIR
EXIST	EXISTING
EXP	EXPANSION
°F	DEGREES FAHRENHEIT
F	FIRE SPRINKLER PIPING
FA	FREE AREA
FC	FLEXIBLE CONNECTION
FCO	FLOOR CLEANOUT
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FDPR	FIRE DAMPER
FG	FINISHED GRADE
FHC	FIRE HOSE CABINET
FIN FL	FINISHED FLOOR
FLA	FULL LOAD AMPERES
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FPI	FINS PER INCH
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FTB	FAN POWERED TERMINAL BOX
FV	FACE VELOCITY
HB	HOSE BIBB
HC	HEATING COIL
HD	HEAD

SYMBOL	DESCRIPTION
HGT	HEIGHT
HORIZ	HORIZONTAL
HP	HORSEPOWER
HR	HOUR
HRR	HEAT RECOVERY RETURN
HRS	HEAT RECOVERY SUPPLY
HW	DOMESTIC HOT WATER
HZ	HERTZ (FREQUENCY)
IN	INCH OR INCHES
INSUL	INSULATION
IPS	IRON PIPE SIZE
KW	KILOWATT
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LBS/HR	POUNDS PER HOUR
LCP	LOCAL CONTROL PANEL
LDB	LEAVING DRY BULB TEMPERATURE
LIN FT	LINEAR FEET
LWB	LEAVING WET BULB
MAX	MAXIMUM
MB	MIXING BOX
MBH	THOUSANDS OF BTUH
MC	MECHANICAL CONTRACTOR
MIN	MINIMUM
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO.	NUMBER
NO	NORMALLY OPEN
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
OV	OUTLET VELOCITY
P	PRESSURE
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PSI	POUNDS PER SQUARE INCH
PSIA	PSI ABSOLUTE
PSIG	PSI GAUGE
PRESS	PRESSURE
PVC	POLYVINYL CHLORIDE
R	RISE
RA	RETURN AIR
RAF	RETURN AIR FAN
RD	ROOF DRAIN
REQ'D	REQUIRED
RHC	REHEAT COIL
R_{HG}	REFRIGERANT HOT GAS DISCHARGE
R_L	REFRIGERANT LIQUID
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
R_S	REFRIGERANT SUCTION
RV	RELIEF VALVE
S/FDPR	COMBINATION SMOKE AND FIRE DAMPER
SAN	SANITARY
SAU	SOUND ATTENUATION UNIT
SCW	SOFT COLD WATER
SMH	STORM MANHOLE
SP	STATIC PRESSURE
SDPR	SMOKE DAMPER
SPEC	SPECIFICATION
ST	STORM
TB	TERMINAL BOX
TD	TRENCH DRAIN
TEMP	TEMPERATURE
TS	TIP SPEED
TYP	TYPICAL
TX	TOILET EXHAUST
UH	UNIT HEATER
V	VENT LINE
VAV	VARIABLE AIR VOLUME UNIT
VLV	VALVE
VTR	VENT THRU ROOF
W	WITH
W/O	WITHOUT
W	WIDTH
WB	WET BULB
WC	WATER COLUMN
WCO	WALL CLEANOUT
WG	WATER GAUGE
WMS	WIRE MESH SCREEN
WP	WORKING PRESSURE

MECHANICAL GENERAL NOTES

1. ALL MECHANICAL WORK SHALL BE GOVERNED AND INSTALLED IN COMPLIANCE WITH THE LATEST EDITION AND APPLICABLE PROVISIONS OF THE FOLLOWING CODES AND STANDARDS:
   A. FLORIDA BUILDING CODE - 2023
   B. FLORIDA MECHANICAL CODE - 2023
   C. FLORIDA PLUMBING CODE - 2023
   D. FLORIDA ENERGY EFFICIENCY CODE - 2023
   E. FLORIDA FIRE PREVENTION CODE - 2023
   F. FLORIDA EXISTING BUILDING CODE - 2023
   G. NATIONAL ELECTRICAL CODE (NEC) - 2020
   H. NFPA 90A - INSTALLATION OF AIR CONDITIONING & VENTILATING SYSTEMS
   I. NFPA 101 - LIFE SAFETY CODE
   J. ASHRAE STANDARDS (INCLUDING 15, 55, 62.1, 90.1 & 129)
   K. ANSI
   L. SMACNA DUCTWORK STANDARDS - CURRENT EDITION
   M. AMERICANS WITH DISABILITIES ACT (ADA)
   N. ALL OTHER APPLICABLE FEDERAL, COUNTY AND CITY CODES REQUIRED BY LOCAL JURISDICTIONS
2. THE CONTRACTOR SHALL READ THE SPECIFICATIONS. THE SPECIFICATIONS AND DRAWINGS TOGETHER DEFINE THE FULL CONTRACT REQUIREMENTS. IN THE EVENT OF A DISCREPANCY BETWEEN THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT APPLIES UNLESS DIRECTION HAS BEEN PROVIDED THROUGH A FORMAL REQUEST FOR INFORMATION OR CLARIFICATION PRIOR TO THE CLOSE OF THE BIDDING.
3. ANY PROPOSED EQUIPMENT OR MATERIAL SUBSTITUTIONS SHALL BE APPROVED BY THE OWNER AND ENGINEER OF RECORD PRIOR TO THE CLOSE OF BIDDING. NO EQUIPMENT OR MATERIAL SUBSTITUTIONS WILL BE CONSIDERED ONCE THE BIDDING HAS ENDED AND THE GMP HAS BEEN ESTABLISHED.
4. AIR HANDLING SYSTEMS SHALL NOT BE ENERGIZED UNTIL ALL OF THE DRYWALL FINISHING AND PAINTING SCOPES HAVE BEEN COMPLETED. CONFIRMATION THAT THOSE SCOPES ARE REQUIRED WITH WRITTEN APPROVAL FROM THE OWNER AND ENGINEER BEFORE AIR HANDLING UNIT AND FANS CAN BE ENERGIZED. FAILURE TO OBTAIN WRITTEN APPROVAL TO ENERGIZE THE FANS WILL RESULT IN THE CLEANING OF THE ENTIRE INTERIOR OF ANY AFFECTED AIR DISTRIBUTION SYSTEM BY A LICENSED THIRD-PARTY CONTRACTOR AT NO ADDITIONAL COST.
5. ALL TEMPORARY FILTRATION AT AIR HANDLING EQUIPMENT AND ANY RETURN AIR INTAKE GRILLE SHALL BE REPLACED A MINIMUM OF ONCE A MONTH DURING PERIODS OF OPERATION DURING CONSTRUCTION. A LOG MUST BE MAINTAINED AT EACH AIR HANDLING UNIT INDICATING DATES OF FILTER REPLACEMENTS FOR INSPECTION. FAILURE TO MAINTAIN THE REQUIRED LOGS WILL RESULT IN THE CLEANING OF THE ENTIRE INTERIOR OF ANY AFFECTED AIR DISTRIBUTION SYSTEM BY A LICENSED THIRD PARTY CONTRACTOR AT NO ADDITIONAL COST.
6. ALL EQUIPMENT, DUCTWORK AND MATERIALS STORED ON THE JOBSITE SHALL BE PROPERLY PROTECTED FROM THE ELEMENTS AND CONSTRUCTION DIRT AND DEBRIS. ANY MATERIAL EXPOSED TO THE ELEMENTS WITH EXPOSED INSULATION WILL BE REQUIRED TO BE REPLACED AT NO ADDITIONAL COST. ANY EQUIPMENT OR MATERIAL THAT IS EXPOSED TO THE ELEMENTS, DIRT AND DEBRIS THAT ARE DEEMED ACCEPTABLE TO REMAIN SHALL BE THOROUGHLY CLEANED AND DISINFECTED AND SIGNED OFF ON BY THE OWNER'S REPRESENTATIVE AND THE ENGINEER OF RECORD PRIOR TO INSTALLATION.
7. ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. VERIFY ALL REQUIREMENTS WITH EQUIPMENT SUPPLIED.
8. ALL EQUIPMENT HOUSINGS AND COMPONENTS INSTALLED OUTDOORS OR WITHIN UNCONDITIONED VENTILATED SPACES THAT ARE EXPOSED TO THE ELEMENTS SHALL BE SUITABLE FOR SEACOAST APPLICATION. ANY APPLIED CORROSION RESISTANT MATERIALS SHALL BE FACTORY APPLIED.
9. EVERY PIECE OF MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH AN ENGRAVED NAMEPLATE WITH MINIMUM 1" HIGH LETTERS INDICATING EQUIPMENT DESIGNATION. ANY EQUIPMENT INSTALLED WHERE CONCEALED ABOVE CEILINGS SHALL BE NOTED WITH CLEAR ADHESIVE LABEL AT NEAREST T-GRID OR ON ACCESS PANEL IN ADDITION TO THE ENGRAVED NAMEPLATE.
10. ALL VARIABLE FREQUENCY DRIVES AND MOTOR STARTERS SHALL BE PROVIDED WITH ENGRAVED LABELS INDICATING ASSOCIATED EQUIPMENT THEY SERVE AS WELL AS THE ELECTRICAL PANEL AND CIRCUIT THAT FEEDS THE DEVICE.
11. ALL EXTERIOR MECHANICAL EQUIPMENT AND THEIR FRAMES, APPURTENANCES, COMPONENTS, SUPPORTS AND ANCHORING DEVICES SHALL BE ANCHORED TO RESIST THE FORCES DUE TO WIND PRESSURE AS REQUIRED BY THE FLORIDA BUILDING CODE.
12. ALL EQUIPMENT AND MATERIALS INSTALLED THAT INTERFACE WITH THE ROOFING SYSTEM SHALL BE COORDINATED WITH THE ROOFING SYSTEM BEING PROVIDED. ALL MECHANICAL EQUIPMENT INSTALLATIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE ROOFING MANUFACTURER TO MAINTAIN CONTINUITY AND WARRANTIES.
13. COORDINATE LOCATION OF ALL CEILING MOUNTED AIR DISTRIBUTION DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLANS AND WORK OF ALL OTHER TRADES.
14. ALL LOW-PRESSURE SUPPLY, RETURN AND EXHAUST DUCTWORK ARE DESIGNED FROM A MINIMUM OF 0.05" TO A MAXIMUM OF 0.1" OF FRICTION PER 100 FT. OF DUCT.
15. UNLESS NOTED OTHERWISE, FLEXIBLE DUCT CONNECTORS AND RIGID DUCT RUNOUTS SERVING SINGLE DIFFUSER SHALL BE THE SAME SIZE AS DIFFUSER NECK.
16. UNLESS NOTED OTHERWISE, FLEXIBLE DUCT CONNECTORS FOR VAV BOXES AND FAN TERMINAL UNIT SHALL BE THE SAME SIZE AS UNIT INLET. VERIFY ACTUAL DIMENSIONS WITH EQUIPMENT SUPPLIED.
17. PAINT INTERNAL DUCTWORK VISIBLE THROUGH DIFFUSERS, GRILLE OR LOUVER FACE FLAT BLACK.
18. DUCTWORK LAYOUTS INDICATED ON PLANS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO BE USED AS DUCT FABRICATION DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION EFFORTS BETWEEN TRADES AS OUTLINED IN THE SPECIFICATIONS.
19. ALL LOW-PRESSURE BRANCH DUCTS SHALL BE PROVIDED WITH A MANUAL VOLUME DAMPER FOR BALANCING. ALL MANUAL VOLUME DAMPERS SHALL BE PROVIDED WITH A MINIMUM 1/2" LENGTH OF FLUORESCENT ORANGE RIBBON TO AIDE IN VISIBILITY WHERE ABOVE CEILINGS.
20. ALL INSULATION / DUCT SEAMS SHALL BE SEALED WITH GLASS FAB, STAPLES AND MASTIC. PRESSURE SENSITIVE TAPE IS NOT AN APPROVED DUCT / INSULATION CLOSURE SYSTEM. ANY PRESSURE SENSITIVE TAPE USED WILL BE REQUIRED TO BE REMOVED AND REPLACED WITH A PROPER CLOSURE SYSTEM.
21. DUCT ACCESS DOORS SHALL BE PROVIDED WHERE ANY EQUIPMENT REQUIRING ACCESS IS INSTALLED ABOVE AN INACCESSIBLE CEILING. MINIMUM SIZE SHALL BE 12X12 OR AS LARGE AS NECESSARY TO ACCOMMODATE EQUIPMENT REPLACEMENT AND SERVICE.
22. ALL DUCT AND PIPING PENETRATIONS THROUGH TILT WALL PANELS SHALL BE COORDINATED BETWEEN THE TILT WALL AND MECHANICAL SUBCONTRACTORS PRIOR TO WALL PANEL FORMING OR DUCT FABRICATION.
23. THE FINISH OF ANY INTERIOR OR EXTERIOR EXPOSED MECHANICAL EQUIPMENT, DUCTWORK, FABRIC DUCT SYSTEMS, LOUVERS, ETC. SHALL BE CONFIRMED WITH THE ARCHITECT.
24. ALL DOORS TO INDIVIDUAL TOILETS, JANITORS CLOSETS AND OTHER SMALL SPACES WITHOUT RETURN GRILLS ARE TO BE UNDERCUT MINIMUM 1/2".
25. MOUNT SPACE MOUNTED SENSORS AT 48" TO THE CENTER UNLESS NOTED OTHERWISE.
26. ALL WALL SENSORS SHALL BE PROVIDED WITH ENGRAVED NAMEPLATE WITH 1/4" HIGH LETTERS INDICATING THE ASSOCIATED MECHANICAL EQUIPMENT IT SERVES.
27. ALL THREE PHASE MOTORS SHALL HAVE PHASE LOSS / ROTATION MONITORS.
28. PROVIDE MOTOR STARTERS FOR ALL MOTORS THAT ARE REQUIRED TO BE CONTROLLED THAT ARE NOT BEING PROVIDED WITH A VARIABLE FREQUENCY DRIVE.
29. ALL REFRIGERANT LINE RUNS SHALL BE SIZED AND INSULATED PER THE MANUFACTURER'S RECOMMENDATIONS. UNLESS NOTED OTHERWISE, PROVIDE PVC CHASES UNDERGROUND WITH DIRECT PATH TO CONDENSING UNIT TO MINIMIZE LINE SET LENGTHS AS MUCH AS POSSIBLE. ALL REFRIGERANT LINES INSTALLED EXPOSED OUTDOORS SHALL BE NEATLY RACK MOUNTED AND PROVIDED WITH ALUMINUM JACKETING.
30. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL OF THE ROOF MOUNTED PLUMBING VENTS WITH THE PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. THE CODE MINIMUM SEPARATION BETWEEN OUTDOOR AIR.
31. ALL PIECES OF MECHANICAL EQUIPMENT REQUIRING ACCESS LOCATED ABOVE HARD CEILINGS SHALL BE PROVIDED WITH ACCESS PANELS SIZED PER DRAWINGS AND/OR MANUFACTURER'S RECOMMENDATION, WHICHEVER IS LARGER. COORDINATE STYLE/COLOR/LOCATIONS OF PANEL WITH A/E/O.
32. CEILING CAVITY SHALL BE USED AS A RETURN PLENUM. ALL COMPONENTS (I.E., PIPING, WIRING, ETC.) INSTALLED WITHIN THE CEILING CAVITY SHALL BE PLENUM RATED. AS REQUIRED BY THE FLORIDA BUILDING CODE. MECHANICAL CONTRACTOR TO COORDINATE WITH OTHER TRADES TO ENSURE ALL COMPONENTS ARE PLENUM RATED.
33. THE BASE BID SHALL INCLUDE A WHOLE BUILDING PRESSURE TEST PER SPECIFICATIONS FOR REVIEW BY THE ENGINEER OF RECORD. THE ENVELOPE SHALL HAVE A MAXIMUM AIR LEAKAGE OF 0.2 CFM/SQFT.

COMMISSIONING SCOPE

1. INDEPENDENT COMMISSIONING SERVICES WILL BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR AND ASSOCIATED SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATION AND SUPPORT REQUIRED FOR ALL COMMISSIONING PROCEDURES AND ACTIVITIES.
2. ALL DEFICIENCIES OR ADJUSTMENTS NOTED AS REQUIRING CORRECTION BY THE COMMISSIONING AUTHORITY (CXA) SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST WITHIN FIVE CALENDAR DAYS OF NOTIFICATION.
3. PRIOR TO PASSING THE FINAL MECHANICAL INSPECTION, EVIDENCE OF THE MECHANICAL SYSTEM'S COMMISSIONING AND COMPLETION SHALL BE PROVIDED.
4. COMMISSIONING SERVICES REQUIREMENTS: COMMISSIONING SERVICES SHALL BE PROVIDED THROUGH A REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY IN ACCORDANCE WITH THE PROVISIONS OF THE FLORIDA BUILDING CODE, ENERGY CONSERVATION CODE SECTION C408. PRIOR TO PASSING THE FINAL MECHANICAL INSPECTION, EVIDENCE OF THE MECHANICAL SYSTEM'S COMMISSIONING AND COMPLETION SHALL BE PROVIDED. COPIES OF THE REQUIRED COMMISSIONING DOCUMENTATION SHALL BE PROVIDED TO THE OWNER AND MADE AVAILABLE TO THE CODE OFFICIAL UPON REQUEST.

TEST AND BALANCE SCOPE

1. THE GENERAL CONTRACTOR SHALL PROVIDE INDEPENDENT THIRD PARTY TEST AND BALANCE SERVICES.
2. THE ASSOCIATED SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATION AND SUPPORT REQUIRED FOR ALL TEST AND BALANCE PROCEDURES AND ACTIVITIES.
3. ALL DEFICIENCIES OR ADJUSTMENTS NOTED AS REQUIRING CORRECTION BY THE THIRD PARTY TEST AND BALANCE CONTRACTOR SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST WITHIN FIVE CALENDAR DAYS OF NOTIFICATION.
4. REFER TO SPECIFICATIONS FOR PRELIMINARY AND FINAL PERFORMANCE VERIFICATION REQUIREMENTS.

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CLIENT

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FL REG. NO.: 1802744

DRAWING HISTORY

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A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

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PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

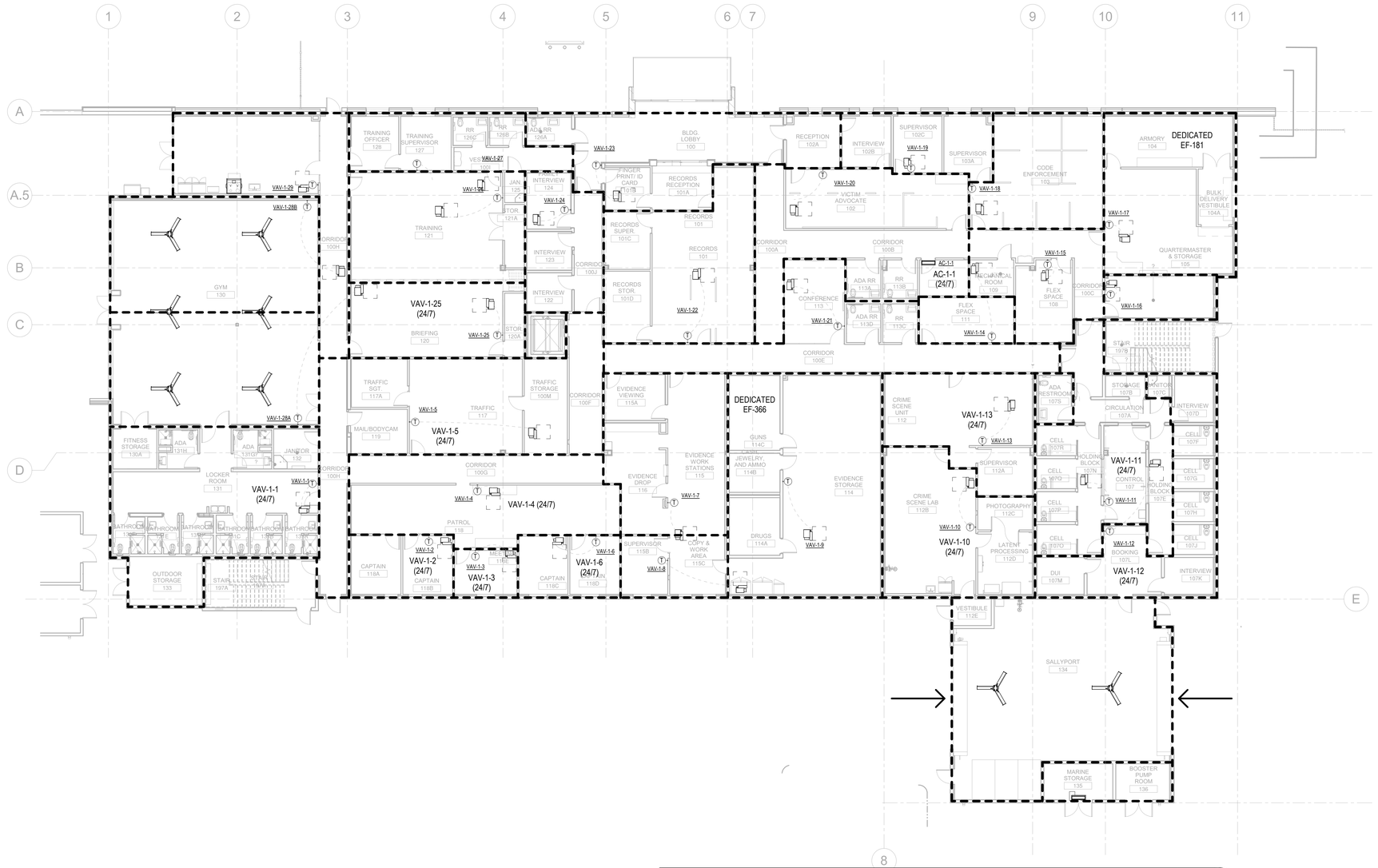
PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
GENERAL NOTES - HVAC

SHEET NUMBER
M0.01



1ST FLOOR PLAN - HVAC ZONING 3/32" = 1'-0" (1)

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DATE OF ISSUE
10/14/2025

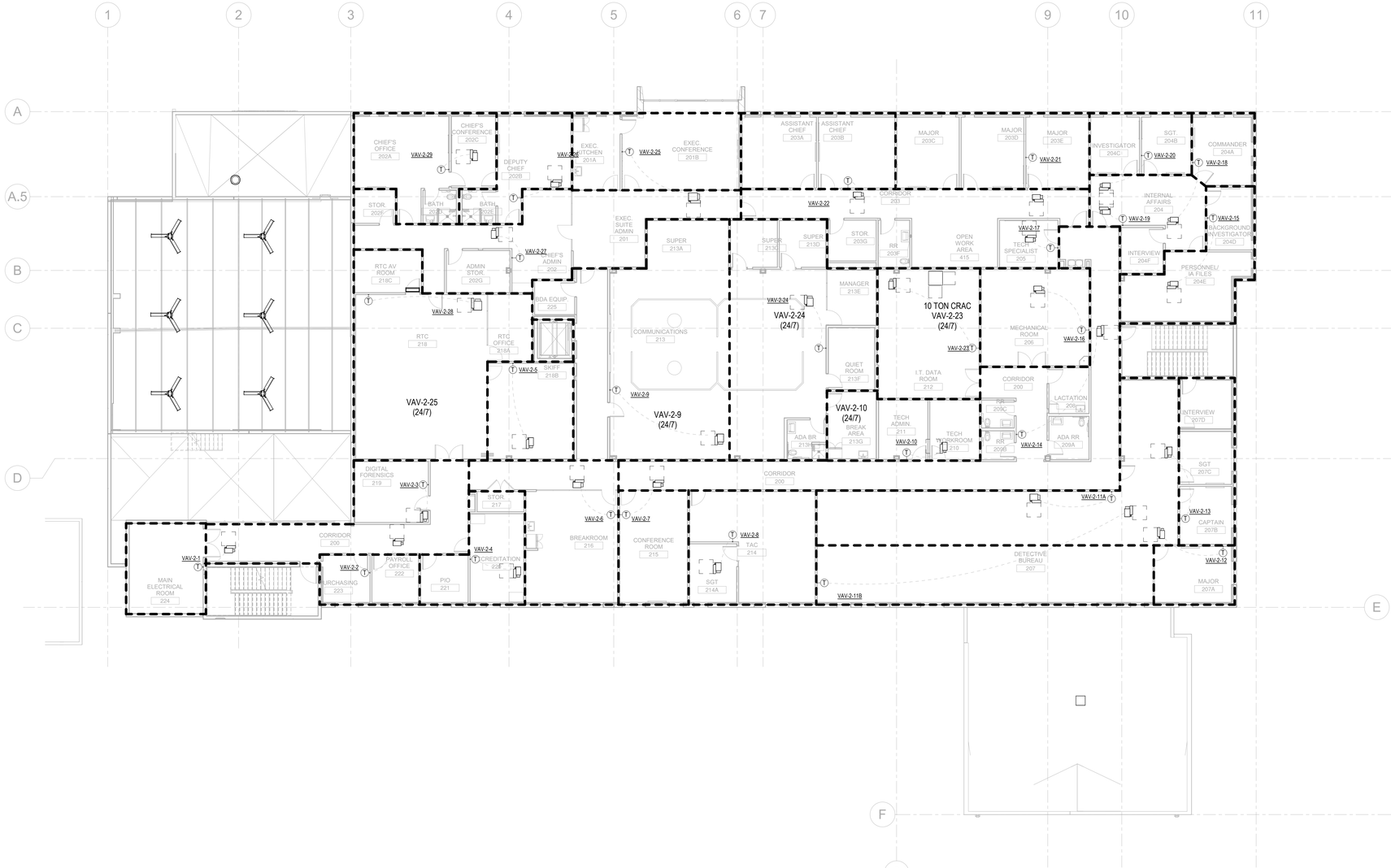
PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
1ST FLOOR - ADMIN - HVAC ZONING PLAN

SHEET NUMBER
M1.01



2ND FLOOR PLAN - HVAC ZONING 3/32" = 1'-0" (1)

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PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

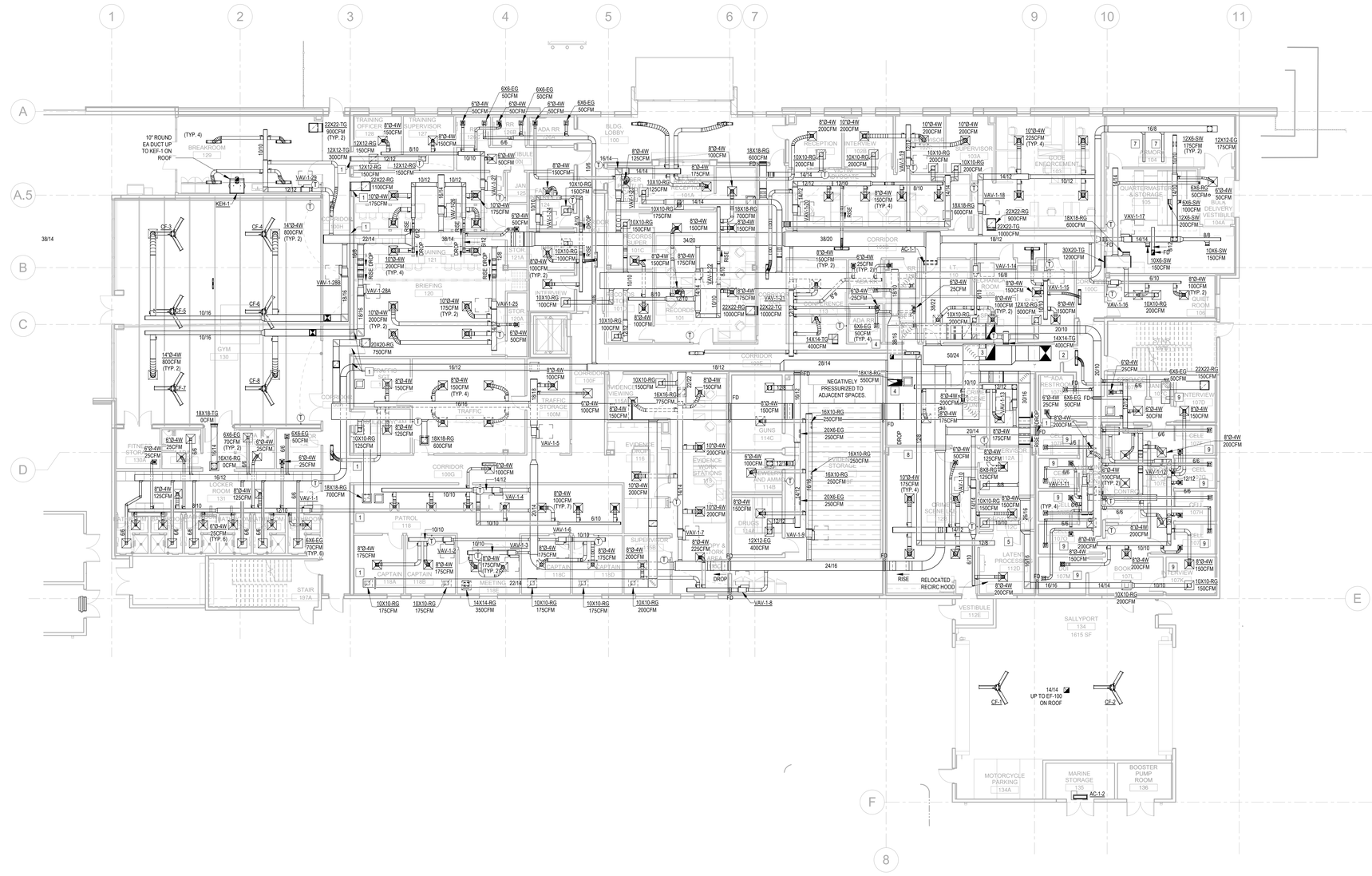
PROJECT NUMBER
1007657.00

SHEET TITLE
2ND FLOOR - ADMIN - HVAC ZONING PLAN

SHEET NUMBER
M1.02

HVAC KEYNOTES [X] :

1. COORDINATE DUCT PENETRATION WITH TILT WALL OR CMU WALL AS REQUIRED.
2. SUPPLY DUCT FROM FLOOR ABOVE. REFERENCE 2ND FLOOR PLAN.
3. RETURN DUCT UP TO FLOOR ABOVE. SEE 2ND FLOOR PLAN FOR CONTINUATION.
4. EXHAUST DUCT UP TO FLOOR ABOVE. SEE 2ND FLOOR PLAN FOR CONTINUATION.
5. DUCT TO FUTURE EVIDENCE HOOD.
6. DUCT TO STORAGE HOOD IN QUARTERMASTER STORAGE AREA.
7. ROUTE DUCTWORK EXHAUST WITHIN MILLWORK ENCLOSURE. PROVIDE EXHAUST GRILLE TO BOTTOM OF MILLWORK. COORDINATE WITH ARCHITECTURAL DRAWINGS.
8. EXHAUST DUCT AND SLEEVE FOR FUTURE EXHAUST HOOD.
9. ALL JAIL CELLS TO BE EQUIPPED WITH SECURITY SUPPLY AND EXHAUST GRILLES. ALL PENETRATIONS OF DUCT TO HAVE SECURITY BARS AT POINT OF PENETRATION.



1ST FLOOR PLAN - HVAC 3/32" = 1'-0" (1)

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PROJECT STATUS

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DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

1007657.00

SHEET TITLE

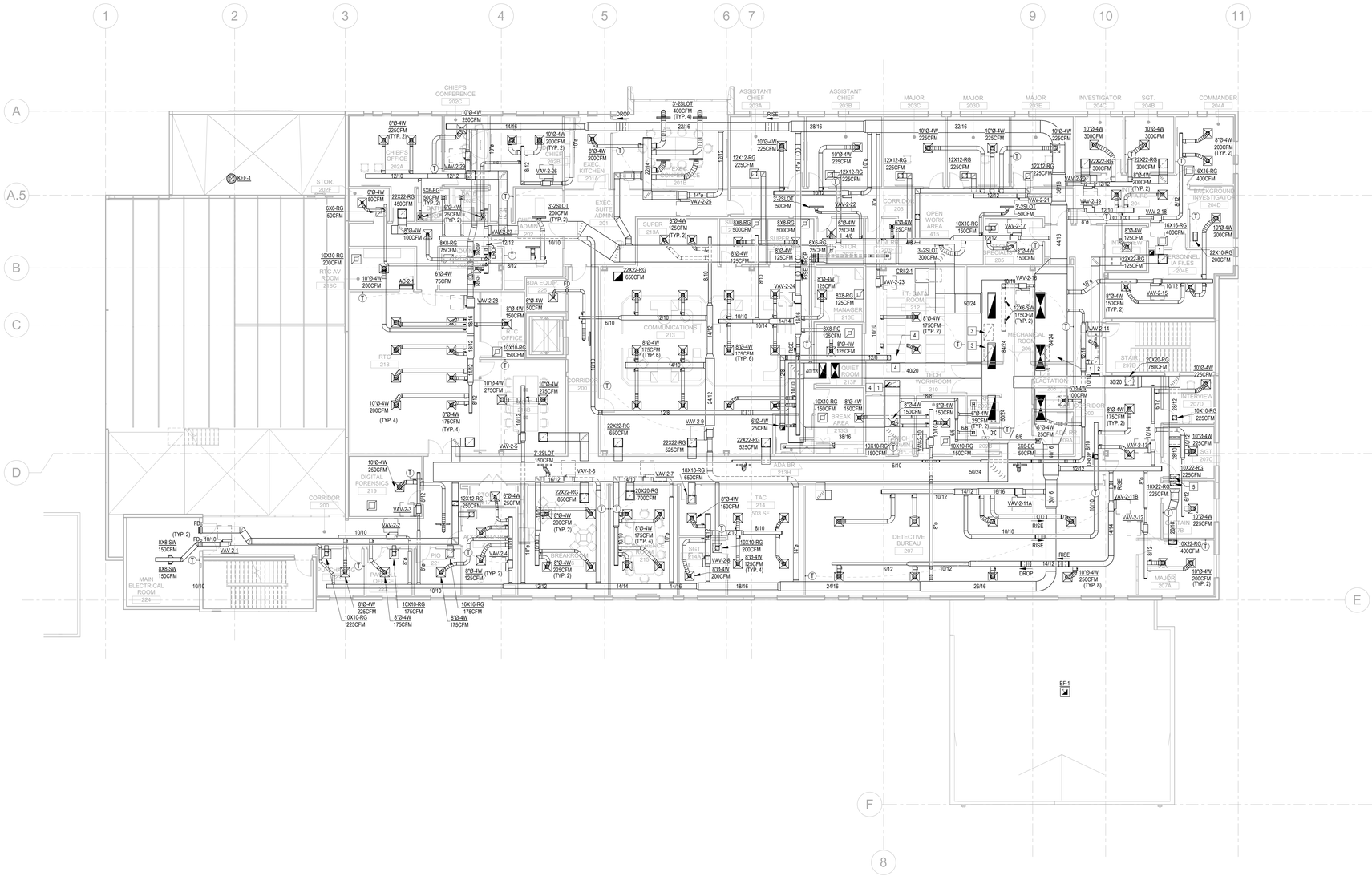
1ST FLOOR PLAN - ADMIN - HVAC

SHEET NUMBER

M1.03

HVAC KEYNOTES [X] :

1. COORDINATE DUCT PENETRATION THROUGH FLOOR AS REQUIRED. PROVIDE FIRE DAMPER AT FLOOR PENETRATION.
2. SUPPLY DUCT DOWN TO FLOOR BELOW. SEE 1ST FLOOR PLAN FOR CONTINUATION.
3. RETURN DUCT FROM FLOOR BELOW. REFERENCE 1ST FLOOR PLAN.
4. EXHAUST DUCT FROM FLOOR BELOW. REFERENCE 1ST FLOOR PLAN.
5. 10/10 FROM GRILLE TO MAIN RETURN DUCT.
6. EXHAUST DUCT AND SLEEVE FOR FUTURE EXHAUST HOOD.



2ND FLOOR PLAN - HVAC 3/32" = 1'-0" (1)

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PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

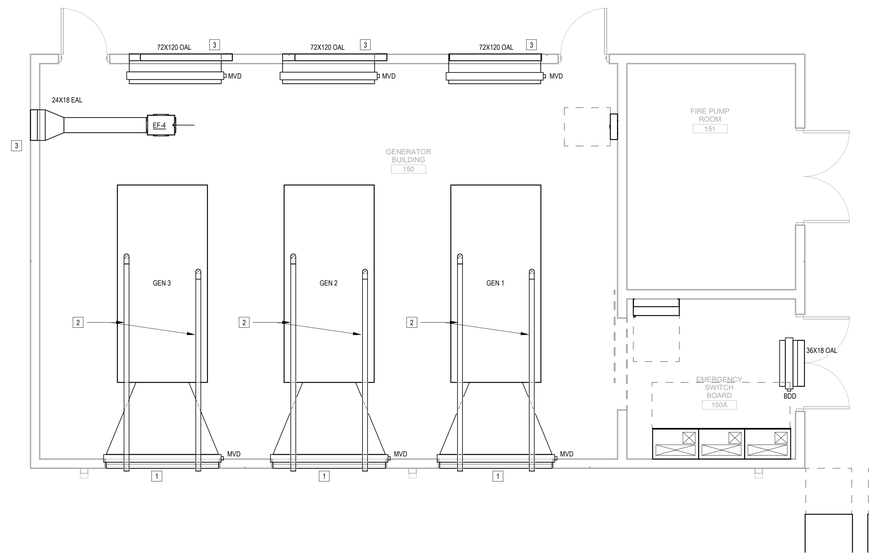
PROJECT NUMBER
1007657.00

SHEET TITLE
2ND FLOOR PLAN - ADMIN - HVAC

SHEET NUMBER
M1.04

HVAC KEYNOTES [X] :

1. CONNECT DUCT FROM LOUVER SLEEVE AND TRANSITION TO RADIATOR SHROUD. PROVIDE WITH INSECT SCREEN. PROVIDE DUCT CONSTRACTION AND CONNECTION PER MANUFACTURER RECOMMENDATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR LOUVER SIZES AND LOCATIONS.
2. 3.5" GENERATOR VENT FROM GENERATOR CATALYST OUTLET CONNECTION TO EXTERIOR WALL DISCHARGE. GENERATOR VENT SHALL BE A PRE-ENGINEERED VENT SYSTEM AND SIZED PER THE MANUFACTURER'S PRE-ENGINEERED SYSTEM REQUIREMENTS. PROVIDE WITH RAIN CAP WHICH SHALL BE ENGINEERED TO MEET THE WIND LOAD REQUIREMENTS OF THE FLORIDA BUILDING CODE.
3. COORDINATE FINAL LOCATION OF LOUVER WITH ARCHITECT PRIOR TO INSTALLATION.



GENERATOR BUILDING FLOOR PLAN - HVAC 1/4" = 1'-0" (1)

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DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

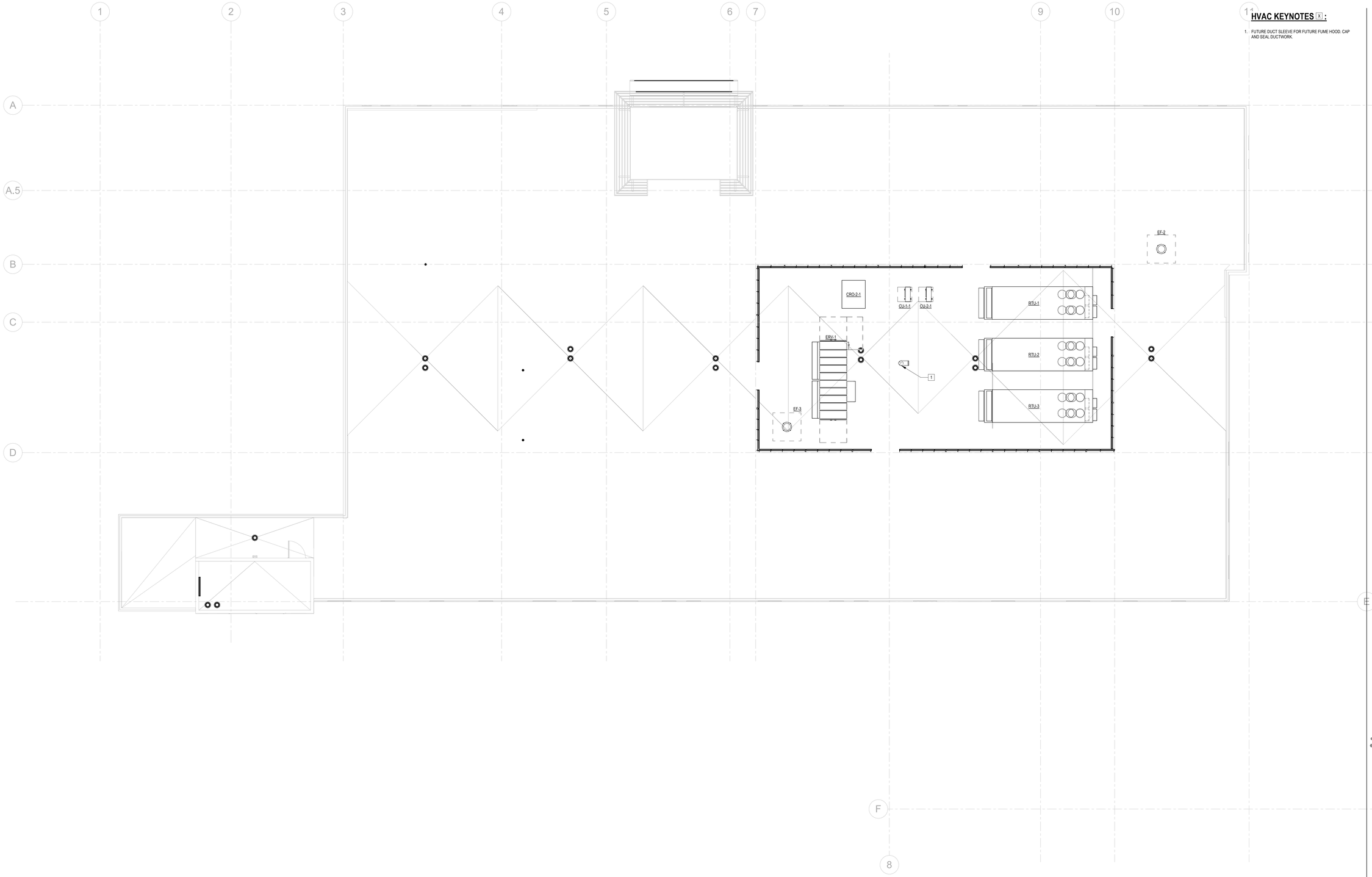
1007657.00

SHEET TITLE

GENERATOR BUILDING FLOOR PLAN - HVAC

SHEET NUMBER

M1.05



ROOF PLAN - HVAC 1/8" = 1'-0" 1

HVAC KEYNOTES X :

1. FUTURE DUCT SLEEVE FOR FUTURE FUME HOOD. CAP AND SEAL DUCTWORK.

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A	4/4/2025	100% Design Development
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PROJECT STATUS
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DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
ROOF PLAN - ADMIN - HVAC

SHEET NUMBER
M1.06

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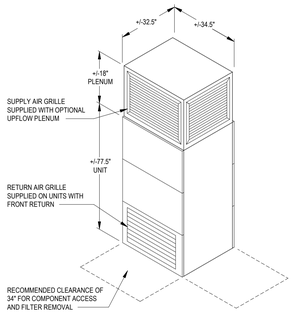
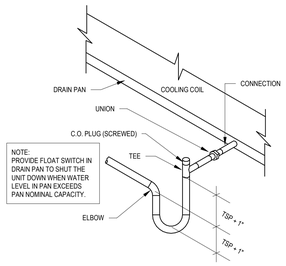
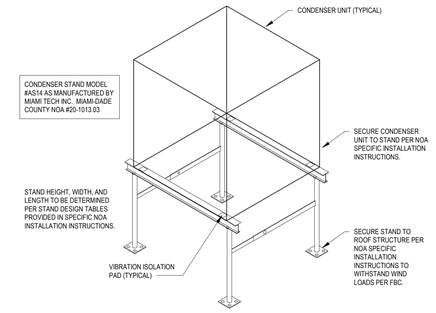


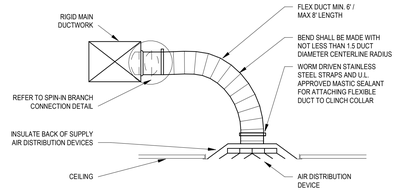
1 COMPUTER ROOM AHU DETAIL
NTS



2 CONDENSATE DRAIN - ISO
NTS



3 CONDENSER UNIT STAND ON ROOF DETAIL - HVHZ
NTS



4 DIFFUSER AND FLEX DUCT DETAIL
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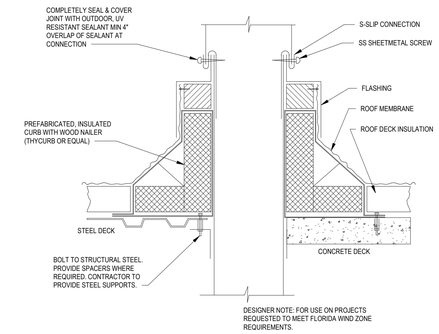


5 DUCT PENTRATION THROUGH ROOF (WIND ZONE)
NTS

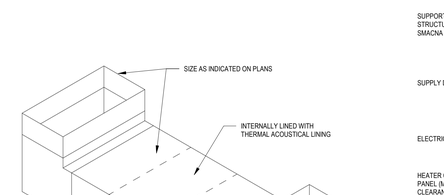
1. INSTALL DUCT SMOKE DETECTOR ON SIDE OF DUCT AS SHOWN.
2. INLET TUBE HOLES SHALL FACE UPSTREAM.
3. SUPPORT INLET TUBE IN DUCT OPENING WHEN DUCT WIDTH EXCEEDS 32".
4. EXHAUST TUBE LENGTH 1/2 OF DUCT WIDTH.
5. ACCESS DOOR IN DUCT FOR INSPECTION AND TESTING. REFER TO FIRE DAMPER DETAIL FOR ACCESS DOOR SIZE.
6. MEASURE DIFFERENTIAL PRESSURE ACROSS INLET TUBE AND EXHAUST TUBE. VERIFY THAT DIFFERENTIAL PRESSURE SATISFIES MINIMUM REQUIREMENTS AS SPECIFIED IN MANUFACTURERS INSTALLATION REQUIREMENTS.
7. PROVIDE STAINDOFF BRACKET FOR INSULATED DUCTWORK. INSTALL INSULATION BETWEEN DUCT AND DETECTOR.
8. INSTALL DUCT SMOKE DETECTORS IN ACCORDANCE WITH DETECTOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND REQUIREMENTS INDICATED ABOVE. WHERE REQUIREMENTS ARE IN CONFLICT, THE MORE STRINGENT WILL GOVERN.

6 DUCT SMOKE DETECTOR DETAIL
NTS

7 DUCT WITH SPLITTER DAMPER
NTS

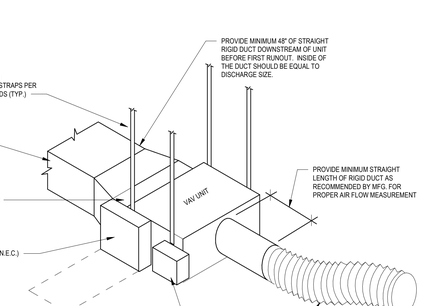
NOTE:
1. DUCTWORK TRAPEZE HANGERS SUPPORT SHALL NOT BE COVERED BY DUCTWORK INSULATION.

8 DUCTWORK SUPPORT
NTS



NOTES:
1. DUCT SHOULD EXTEND STRAIGHT FOR SEVERAL INCHES FROM A CONNECTION BEFORE BENDING.
2. SUPPORT SYSTEM MUST NOT DAMAGE DUCT OR CAUSE OUT OF ROUND SHAPE.

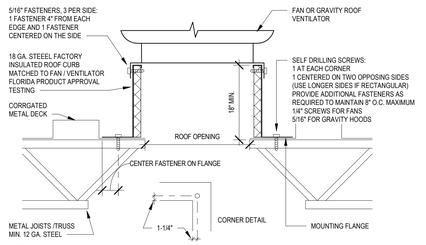
9 FLEX DUCT SUPPORT
NTS



10 IN-LINE EXHAUST FAN - ISO
NTS

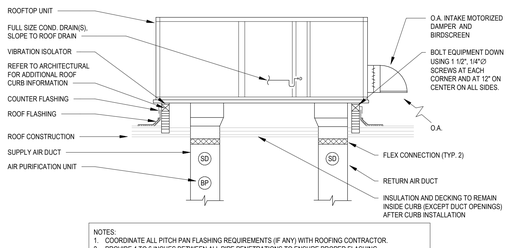
NOTES:
1. ALL SUPPLY, EXHAUST AND RETURN AIR BRANCH DUCTS SHALL BE SUPPLIED WITH A MANUAL VOLUME DAMPER FOR BALANCING. DAMPERS NOT SHOWN ON PLAN FOR CLARITY.
2. AIR FLOW ARROWS ABOVE INDICATE NEGATIVE (RETURN OR EXHAUST) OR POSITIVE AIR FLOW (SUPPLY) TO DELINEATE THE DUCT CONNECTION BOOT ORIENTATION FOR EACH DUCT SYSTEM.

11 RECTANGULAR DUCT BRANCH
NTS



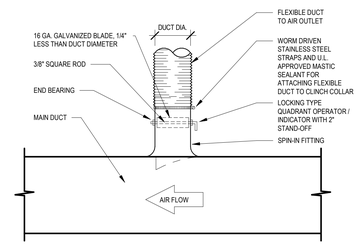
NOTES:
1. DETAIL BASED ON GREENHECK G, GB, CUBE FANS AND R, FG ROOF GRAVITY VENTILATOR FLORIDA PRODUCT APPROVAL REQUIREMENTS. THE CONTRACTOR SHALL CONFIRM THE TESTING CRITERIA WITH THE ACTUAL EQUIPMENT PROVIDED FOR THIS PROJECT. THE CONTRACTOR SHALL INCLUDE THE FLORIDA PRODUCT APPROVAL TEST ASSEMBLY DETAILS IN THE EQUIPMENT SUBMITTALS AND HAVE AVAILABLE ON THE PROJECT SITE FOR INSPECTION PURPOSES.
2. CURB HEIGHT FOR KITCHEN GREASE HOOD FANS SHALL BE SUCH THAT THE FAN DISCHARGE IS A MINIMUM OF 42" ABOVE THE FINISHED ROOF.

12 ROOF FAN / GRAVITY VENTILATOR - METAL DECK
NTS



NOTES:
1. COORDINATE ALL PITCH PAN FLASHING REQUIREMENTS (IF ANY) WITH ROOFING CONTRACTOR.
2. PROVIDE 4 TO 6 INCHES BETWEEN ALL PIPE PENETRATIONS TO ENSURE PROPER FLASHING.
3. LOCATE ALL ROOF CURBS AND PENETRATIONS A MINIMUM OF 12 TO 18 INCHES AWAY FROM ALL VERTICAL WALL BASE FLASHING, OTHER CURBS, METAL ROOF JACKS AND ANY OTHER UNIT PENETRATIONS.
4. COORDINATE ALL UNIT LOCATIONS, CONDENSATE DRAIN PIPING, PRIMARY/SECONDARY ROOF DRAINAGE SYSTEMS, TRAFFIC PADS AND CROSSOVER LADDERS AS REQUIRED.
5. ALL ROOF MOUNTED EQUIPMENT SHALL BE ANCHORED TO WITHSTAND THE FORCES OF WIND AS OUTLINED IN THE CURRENT FLORIDA BUILDING CODE.

13 ROOFTOP UNIT MOUNTING DETAIL
NTS



14 TYPICAL SPIN-IN BRANCH CONNECTION
NTS

15 TRANSFER DUCT
NTS

NOTE:
- VERIFY LEFT/RIGHT ORIENTATION WITH THE PLANS.
- FOR VAV TERMINALS WITH ELECTRIC HEAT, PROVIDE SUPPLY AIR TEMPERATURE SENSOR.

16 VAV TERMINAL UNIT
NTS

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach DIRBPD_MEPF_R24.rvt
DATE STAMP: 10/23/2025 11:56:11 AM

CLIENT

CITY OF RIVIERA BEACH
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Riviera Beach, FL 33404

ARCHITECT OF RECORD

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CONSTRUCTION MANAGER/BUILDER

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West Palm Beach
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PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
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32750

REGISTRATION

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600 S. ORLANDO AVE.
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FL REG. NO.: PE57743

DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

CMTA
A LEIDOS Company
4 Harvard Cir, Suite 600 | West Palm Beach, FL 33409
561.688.6575 | cmta.com

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER
1007657.00

SHEET TITLE
DETAILS - HVAC

SHEET NUMBER
M5.01

CEILING FAN SCHEDULE

MARK	MODEL	SERVICE	FAN DIAMETER	DRIVE / FAN RPM	MAXIMUM FAN WATTAGE	ELECTRICAL			REMARKS
						VOLTS	PH	HZ	
CF-1	GREENHECK	SALLYPORT	8'	Direct / 145	182	208 V	3	60	ALL
CF-2	GREENHECK	SALLYPORT	8'	Direct / 145	182	208 V	3	60	ALL
CF-3	GREENHECK	GYM	8'	Direct / 145	182	208 V	3	60	ALL
CF-4	GREENHECK	GYM	8'	Direct / 145	182	208 V	3	60	ALL
CF-5	GREENHECK	GYM	8'	Direct / 145	182	208 V	3	60	ALL
CF-6	GREENHECK	GYM	8'	Direct / 145	182	208 V	3	60	ALL
CF-7	GREENHECK	GYM	8'	Direct / 145	182	208 V	3	60	ALL
CF-8	GREENHECK	GYM	8'	Direct / 145	182	208 V	3	60	ALL

REMARKS:

1. MOUNT FAN FROM STRUCTURE. CONTACT MANUFACTURER PRIOR TO INSTALLATION.
2. PROVIDE WITH 0-10V SIGNAL.
3. MANUFACTURER'S LABELS ARE NOT PERMITTED TO APPEAR ON THE FANS.
4. PROVIDE EXTENDED TUBE. COORDINATE TUBE LENGTH WITH LIGHTING TO AVOID STROBING.

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	TYPE	CFM / ESP	DRIVE / FAN RPM	FAN HP	ELECTRICAL			CONTROL TYPE	REMARKS
								VOLTS	PH	HZ		
EF-1	GREENHECK	CUE-120-VG	SALLYPORT	UPBLAST CENTRIFUGAL	1275 / 0.25	DIRECT / 1213	1/4	115 V	1	60	THERMOSTATIC / GARAGE FUMES SENSORS	1, 2, 3, 4, 5
EF-2	GREENHECK	GB-098	ARMORY	DOWNBLAST CENTRIFUGAL	350 / 0.5	BELT / 1200	1/6	115 V	1	60	BUILDING OCCUPANCY SCHEDULE	ALL
EF-3	GREENHECK	GB-098	EVIDENCE STORAGE	DOWNBLAST CENTRIFUGAL	450 / 0.5	BELT / 1307	1/6	115 V	1	60	BUILDING OCCUPANCY SCHEDULE	ALL
EF-4	GREENHECK	SQ-99	GENERATOR BUILDING	INLINE	1100 / 0.5	DIRECT / 2110	1/2	115 V	1	60	THERMOSTAT	ALL
KEF-1	GREENHECK	CUE-100HP-VG	BREAK ROOM	UPBLAST CENTRIFUGAL	600/1.266	DIRECT / 2162	1/2	115 V	1	60	KITCHEN HOOD	ALL

REMARKS:

1. PROVIDE WITH INTEGRAL DISCONNECT SWITCH.
2. PROVIDE WITH BACKDRAFT DAMPER.
3. EXHAUST FAN SHALL BE UL LISTED.
4. FURNISH WITH ECM FAN MOTOR AND UNIT MOUNTED SPEED CONTROLLER.
5. PROVIDE WITH SPRING VIBRATION ISOLATORS.
6. FAN SHALL HAVE SPARK RESISTENCE CLASS B.

SPLIT SYSTEM INDOOR UNIT SCHEDULE

MARK	MANUF.	MODEL #	DIMENSIONS (IN.)			WEIGHT (LBS)	AIRFLOW (CFM)	ELECTRICAL		REMARKS
			LENGTH	WIDTH	HEIGHT			VOLTAGE	PHASE	
AC-1-1	MITSUBISHI ELECTRIC	MSY-GS12NA	32	10	12	50.00 bf	300	24 V	1	1-4
AC-1-2	MITSUBISHI ELECTRIC	MSY-GS12NA	32	10	12	50.00 bf	300	24 V	1	1-4
AC-2-1	MITSUBISHI ELECTRIC	MSY-GS12NA	32	10	12	50.00 bf	300	24 V	1	1-4

NOTES:

1. PROVIDE WITH WALL MOUNTED, HARDWIRED THERMOSTAT CONTROLLER.
2. PROVIDE WITH INTEGRAL CONDENSATE PUMP.
3. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT. SEE DUCTLESS SPLIT SYSTEM OUTDOOR UNIT SCHEDULE THIS SHEET.
4. PROVIDE WITH ALL REQUIRED ACCESSORIES FOR SPECIFIC INSTALLATION.
5. PROVIDE WITH WALL MOUNTED 7-DAY DIGITAL PROGRAMMABLE THERMOSTAT. COORDINATE WITH OWNER PRIOR TO ORDERING.
6. COORDINATE REFRIGERANT PIPING LENGTH WITH MANUFACTURER.
7. PROVIDE WITH A SINGLE POINT OF CONNECTION FOR ELECTRIC HEATER AND FAN FOR INDOOR UNIT.
8. PROVIDE WITH FACTORY INSTALLED CONDENSATE FLOAT SWITCHES
9. EACH AIR HANDLER AND ASSOCIATED CONDENSING UNIT SHALL BE PROVIDED WITH AN ENGRAVED NAMEPLATE SHOWING SPECIFIC UNIT DESIGNATION.

SPLIT SYSTEM OUTDOOR UNIT SCHEDULE

Mark	MANUF.	MODEL #	DIMENSIONS (IN.)			WEIGHT (LBS)	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	HEATING CAPACITY (MBH)	MINIMUM SEER2	ELECTRICAL			REMARKS
			LENGTH	WIDTH	HEIGHT						MCA	MOCP	VOLTAGE	PHASE	
CU-1-1	MITSUBISHI ELECTRIC	MUY-GS12NA	32	12	22	100.00 bf	13.6	10.47	N/A	25.6	10 A	15	208 V	1	2
CU-1-2	MITSUBISHI ELECTRIC	MUY-GS12NA	32	12	22	100.00 bf	13.6	10.47	N/A	25.6	10 A	15	208 V	1	2
CU-2-1	MITSUBISHI ELECTRIC	MUY-GS12NA	32	12	22	100.00 bf	13.6	10.47	N/A	25.6	10 A	15	208 V	1	2

NOTES:

1. COORDINATE REFRIGERANT PIPING LENGTH WITH MANUFACTURER. PROVIDE MANUFACTURER'S ACCESSORIES RECOMMENDED FOR LONG LINE APPLICATIONS WHEN THE EQUIVALENT LENGTH EXCEEDS 75 FT. UPSIZE THE VAPOR LINE TO MINIMIZE THE COOLING CAPACITY LOSS TO LESS THAN 3%.
2. PROVIDE WITH ALL REQUIRED ACCESSORIES FOR SPECIFIC INSTALLATION.
3. PROVIDE WITH TIME DELAY RELAY.
4. PROVIDE WALL MOUNTED DIGITAL PROGRAMMABLE THERMOSTAT WITH TOUCH SCREEN AND LOCKABLE COVER.

COMPUTER ROOM INDOOR AIR HANDLER UNIT SCHEDULE

MARK	AREA SERVED	SUPPLY AIR CFM	EC PLUG FAN(S)			EAT °F (DB/WB)	COOLING CAPACITY	ELECTRICAL				WEIGHT (LBS.)	BASIS OF DESIGN		NOTES
			QTY	HP (EACH)	FLA		TOTAL (MBTUH)	SENSIBLE (MBTUH)	VOLTS/PH.	MCA	MOCP		MANUFACTURER	MODEL	
CRI-2-1	IT 212	4300	1	4.2	36.0	75 °F/61 °F	101.0	89.2	460/3	43.7	50	700	Liebert	PX029	ALL

NOTES:

1. PROVIDE WITH WALL MOUNTED, HARDWIRED THERMOSTAT CONTROLLER.
2. PROVIDE WITH INTEGRAL CONDENSATE PUMP
3. PROVIDE WITH ALL REQUIRED ACCESSORIES FOR SPECIFIC INSTALLATION.

COMPUTER ROOM OUTDOOR CONDENSER UNIT...

MARK	UNIT SERVED	CONDENSER EC FAN		ELECTRICAL		WEIGHT (LBS.)	BASIS OF DESIGN		NOTES
		QTY	FLA EACH	VOLTS/PH.	MOCP		MANUFACTURER	MODEL	
CRD-2-1	CRI-2-1	1	2.8	460/3	15	700	Liebert	MCL055	ALL

NOTES:

1. PROVIDE WITH ALL REQUIRED ACCESSORIES FOR SPECIFIC INSTALLATION.

PACKAGED ROOFTOP UNIT SCHEDULE

MARK	SERVICE	MANUFACTURER	MODEL	TYPE	CONFIGURATION	NOMINAL SIZE LxWxH (IN.)	WEIGHT (LBS)	UNIT ELECTRICAL					OUTSIDE AIR (CFM)	SUPPLY FAN								
								VOLTAGE	PHASE	FREQ.	MCA	MOCP		AIRFLOW (CFM)	T.S.P / E.S.P (IN WG)	FAN TYPE	FAN QTY	DRIVE TYPE	FAN RPM	MOTOR HP / BHP (PER FAN)	VFD	MAXIMUM VFD OPERATING FREQUENCY (HZ)	ACOUSTICS DISCHARGE (63/125/250/500/1K/2K/4K/8K)
RTU-2	ADMIN	INNOVENT	CAHU-12000-AC-460	PACKAGED DX COOLING	DOWNFLOW	272x93x89	6300	460 V	3	60 Hz	103 A	125	3500	12000	4.94 / 2.50	PLENUM	2	DIRECT	2717	10 / 6.8	YES	60	91/87/86/97/86/91/84
RTU-1	ADMIN	INNOVENT	CAHU-12000-AC-460	PACKAGED DX COOLING	DOWNFLOW	272x93x89	6300	460 V	3	60 Hz	103 A	125	3500	12000	4.94 / 2.50	PLENUM	2	DIRECT	2717	10 / 6.8	YES	60	91/87/86/97/86/91/84
RTU-3	ADMIN	INNOVENT	CAHU-12000-AC-460	PACKAGED DX COOLING	DOWNFLOW	272x93x89	6300	460 V	3	60 Hz	103 A	125	3500	12000	4.94 / 2.50	PLENUM	2	DIRECT	2717	10 / 6.8	YES	60	91/87/86/97/86/91/84

PACKAGED ROOFTOP UNIT SCHEDULE (CONT...2)

MARK	DX COOLING						SUPPLY FILTER SECTIONS				REMARKS
	COIL CFM	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EAT (DB / WB) (F)	LAT (DB / WB) (F)	EER @ AHRI	TYPE	MERV RATING	MAX. VELOCITY (FPM)	FILTER SIZE / QUANTITY	INITIAL / MAX AIR PRESSURE DROP ("WG)	
RTU-2	12000	472.4	327.6	77 / 65	51.7 / 51.7	9.9	PLEATED	13	292	4" / 3	0.34 / 1.16	ALL
RTU-1	12000	472.4	327.6	77 / 65	51.7 / 51.7	9.9	PLEATED	13	292	4" / 3	0.34 / 1.16	ALL
RTU-3	12000	472.4	327.6	77 / 65	51.7 / 51.7	9.9	PLEATED	13	292	4" / 3	0.34 / 1.16	ALL

REMARKS:

1. CONFIGURABLE CONTROLS TO ALLOW THE UNITS TO STAGE AND CONTROL TOGETHER (3 UNITS AS 50-50-50 CONTROLLED TOGETHER).
2. ALL UNITS SHALL BE FULL INTERIOR / EXTERIOR MARINE GRADE ALUMINUM TO ADD RESILIENCY AND LIFE TO THE UNITS.
3. PROVIDE ALL UNITS WITH BACKDRAFT DAMPERS.
4. PROVIDE ALL UNITS WITH 14" TALL VIBRATION ISOLATION ROOF CURBS.COORDINATE WITH ROOF CONSTRUCTION TYPE.
5. PROVIDE FACTORY MOUNTED HIGH-EFFICIENCY, VFD/INVERTER DUTY MOTORS ON ALL FANS.
6. PROVIDE VFDS AND DISCONNECTS FOR ALL FAN MOTORS.
7. PROVIDE WITH FACTORY START-UP UTILIZING MANUFACTURER'S STANDARD FORMS. 2 YEARS PARTS AND LABOR WARRANTY ON ENTIRE UNIT FROM DATE OF SUBSTANTIAL COMPLETION.
8. PROVIDE WITH FOUR COMPLETE SETS OF MERV 8 FILTERS.
9. ENTIRE UNIT SHALL BE DOUBLE WALL CONSTRUCTION.
10. PROVIDE WITH STAINLESS STEEL IAQ CONDENSATE DRAIN PAN. ENTIRE PAN SHALL BE PITCHED TO OUTLET.
11. PROVIDE (1) INVERTER-DRIVEN/DIGITAL SCROLL AND (1) FIXED SCROLL COMPRESSOR, FOR MODULATING COOLING CAPABILITY.
12. PROVIDE WITH RETURN AIR DAMPERS.
13. PROVIDE UNIT WITH SINGLE POINT POWER.

ENERGY RECOVERY VENTILATOR

SYMBOL	MANUFACTURER	MODEL	TYPE	NOMINAL SIZE LxWxH (IN.)	WEIGHT (LBS)	SUPPLY FAN			EXHAUST FAN		ELECTRICAL	
						CFM	DRIVE	MOTOR HP	CFM	MOTOR HP	V / PH / HZ	MCA / MOP
ERV-1	RENEWAIRE	LE10X	ENERGY RECOVERY ENTHALPY CORE	195.25"x64.25"x71.125"	3822	7000	BELT	5	5600	5	460 / 3 / 60	11.9 / 15

ENERGY RECOVERY VENTILATOR (CONT...)

SYMBOL	ENERGY RECOVERY										
	OUTSIDE AIR SIDE				EXHAUST AIR SIDE				EFFECTIVENESS	
		SUMMER (DB / WB) (F)		WINTER (DB / WB) (F)			EAT (DB / WB) (F)			
	CFM / APD	EAT	LAT	EAT	LAT	CFM / APD	SUMMER	WINTER	SUMMER	WINTER
ERV-1	7000 / 1.0	91.4 / 77.6	80.9 / 70.6	43.9 / 37.1	60.6 / 46.4	5600 / 1.5	75.0 / 62.5	70.0 / 51.5	80.1	80.1
ERV-1	7000 / 1.0	91.4 / 77.6	80.9 / 70.6	43.9 / 37.1	60.6 / 46.4	5600 / 1.5	75.0 / 62.5	70.0 / 51.5	80.1	80.1
ERV-1	7000 / 1.0	91.4 / 77.6	80.9 / 70.6	43.9 / 37.1	60.6 / 46.4	5600 / 1.5	75.0 / 62.5	70.0 / 51.5	80.1	80.1

REMARKS:

1. PROVIDE WITH DOUBLE WALL CONSTRUCTION.
2. PROVIDE WITH MERV 8 FILTERS.
3. PROVIDE WITH FACTORY START-UP UTILIZING MANUFACTURER'S STANDARD FORMS.
4. PROVIDE WITH HIGH EFFICIENCY VFD RATED MOTORS. VFD SHALL BE FIELD INSTALLED.
5. PROVIDE WITH INTEGRAL DISCONNECT.
6. PROVIDE MOTORIZED DAMPERS IN BOTH OUTSIDE AND EXHAUST AIRSTREAMS

VAV UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	INLET SIZE	PRIMARY AIR CFM		HEATING CFM	ΔP (IN. W.G.)	AUXILIARY ELECTRIC HEAT			NOTES
				MAX.	MIN.			kW	VOLTS/PH.	STEPS	
VAV-1-1	TRANE	VCEF	8	500	175	250	0.30	2.5	277/1		
VAV-1-2	TRANE	VCEF	6	350	125	175	0.30	2	277/1	1	
VAV-1-3	TRANE	VCEF	6	350	125	175	0.30	2	277/1	1	
VAV-1-4	TRANE	VCEF	10	800	280	400	0.30	4	277/1		
VAV-1-5	TRANE	VCEF	10	1075	380	540	0.30	5.5	277/1		
VAV-1-6	TRANE	VCEF	6	350	125	175	0.30	2	277/1	1	
VAV-1-7	TRANE	VCEF	10	900	315	450	0.30	4.5	277/1		
VAV-1-8	TRANE	VCEF	8	475	170	240	0.30	2.5	277/1		
VAV-1-9	TRANE	VCEF	12	1600	560	800	0.30	8	277/1	2	
VAV-1-10	TRANE	VCEF	10	1100	385	550	0.30	5.5	277/1		
VAV-1-11	TRANE	VCEF	8	700	245	350	0.30	3.5	277/1		
VAV-1-12	TRANE	VCEF	8	650	230	325	0.30	3.5	277/1		
VAV-1-13	TRANE	VCEF	8	675	240	340	0.30	3.5	277/1		
VAV-1-14	TRANE	VCEF	6	200	70	100	0.30	1	277/1	1	
VAV-1-15	TRANE	VCEF	6	400	140	200	0.30	2	277/1	1	
VAV-1-16	TRANE	VCEF	6	200	70	100	0.30	1	277/1	1	
VAV-1-17	TRANE	VCEF	10	1000	350	500	0.30	5	277/1		
VAV-1-18	TRANE	VCEF	10	900	315	450	0.30	4.5	277/1		
VAV-1-19	TRANE	VCEF	8	600	210	300	0.30	3	277/1		
VAV-1-20	TRANE	VCEF	10	1000	350	500	0.30	5	277/1		
VAV-1-21	TRANE	VCEF	8	625	220	315	0.30	3	277/1		
VAV-1-22	TRANE	VCEF	10	1000	350	500	0.30	5	277/1		
VAV-1-23	TRANE	VCEF	10	1150	405	575	0.30	5.5	277/1		
VAV-1-24	TRANE	VCEF	8	400	140	200	0.30	2	277/1		
VAV-1-25	TRANE	VCEF	10	800	280	400	0.30	4	277/1		
VAV-1-26	TRANE	VCEF	12	1200	420	600	0.30	6	277/1	2	
VAV-1-27	TRANE	VCEF	8	450	160	225	0.30	2.5	277/1		
VAV-1-28A	TRANE	VCEF	12	1600	560	800	0.30	8	277/1	2	
VAV-1-28B	TRANE	VCEF	12	1600	560	800	0.30	8	277/1	2	
VAV-1-29	TRANE	VCEF	8	900	315	450	0.30	4.5	277/1		
VAV-2-1	TRANE	VCEF	6	300	105	0	0.30	0	277/1	1	
VAV-2-2	TRANE	VCEF	6	400	140	200	0.30	2	277/1	1	
VAV-2-3	TRANE	VCEF	6	400	140	200	0.30	2	277/1	1	
VAV-2-4	TRANE	VCEF	8	425	150	215	0.30	2.5	277/1		
VAV-2-5	TRANE	VCEF	8	550	195	275	0.30	3	277/1		
VAV-2-6	TRANE	VCEF	10	1000	350	500	0.30	5	277/1		
VAV-2-7	TRANE	VCEF	8	700	245	350	0.30	3.5	277/1		
VAV-2-8	TRANE	VCEF	10	850	300	425	0.30	4.5	277/1		
VAV-2-9	TRANE	VCEF	12	1500	525	750	0.30	7.5	277/1	2	
VAV-2-10	TRANE	VCEF	6	450	160	225	0.30	2.5	277/1	1	
VAV-2-11A	TRANE	VCEF	12	1350	475	675	0.30	6.5	277/1	2	
VAV-2-11B	TRANE	VCEF	10	1000	350	500	0.30	5	277/1		
VAV-2-12	TRANE	VCEF	6	400	140	200	0.30	2	277/1	1	
VAV-2-13	TRANE	VCEF	8	675	240	340	0.30	3.5	277/1		
VAV-2-14	TRANE	VCEF	8	575	205	290	0.30	3	277/1		
VAV-2-15	TRANE	VCEF	8	500	175	250	0.30	2.5	277/1		
VAV-2-16	TRANE	VCEF	6	350	125	175	0.30	2	277/1	1	
VAV-2-17	TRANE	VCEF	8	600	210	300	0.30	3	277/1		
VAV-2-18	TRANE	VCEF	6	400	140	200	0.30	2	277/1	1	
VAV-2-19	TRANE	VCEF	8	525	185	265	0.30	3	277/1		
VAV-2-20	TRANE	VCEF	8	600	210	300	0.30	3	277/1		
VAV-2-21	TRANE	VCEF	8	675	240	340	0.30	3.5	277/1		
VAV-2-22	TRANE	VCEF	8	450	160	225	0.30	2.5	277/1		
VAV-2-23	TRANE	VCEF	6	350	125	175	0.30	2	277/1	1	
VAV-2-24	TRANE	VCEF	12	1575	555	790	0.30	7.5	277/1	2	
VAV-2-25	TRANE	VCEF	14	1800	630	900	0.30	9	480/3		
VAV-2-26	TRANE	VCEF	8	425	150	215	0.30	2.5	277/1		
VAV-2-27	TRANE	VCEF	8	725	255	365	0.30	3.5	277/1		
VAV-2-28	TRANE	VCEF	14	1850	650	925	0.30	9	480/3		
VAV-2-29	TRANE	VCEF	8	725	255	365	0.30	3.5	277/1		

NOTES:

1. ALL BOXES SHALL BE SINGLE WALLL WITH 1/2" FOIL FACED INSULATION.
2. ALL HEATING COILS SHALL BE ELECTRIC HEAT SCR.
3. PROVIDE EACH BOX WITH AN INDEPENDENT CONTROLLER. NO BOX SHALL BE OPERATED BY ANOTHER CONTROLLER LOCATED ON ANOTHER BOX.
4. PROVIDE BOTTOM ACCESS PANEL.
5. BOX LABELED WITH "A" SHALL BE COOLING ONLY BOX, NO HEATING COIL.
6. PROVIDE WITH INTEGRAL STEP DOWN TRANSFORMER FOR CONTROL POWER. COORDINATE VOLTAGE WITH ELECTRICAL CONTRACTOR.
7. PROVIDE WITH INTEGRAL DISCONNECT SWITCH.
8. PROVIDE WITH NORMALLY OPEN SPRING LOADED DAMPER.

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REGISTRATION

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DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

PROJECT STATUS

90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

1007657.00

SHEET TITLE

SCHEDULES - HVAC

SHEET NUMBER

M6.01

FILE NAME: Autodesk Docs:// 1007657.00 - CORE - City of Riviera Beach D/RBPD_MEPF_R24.rvt
DATE STAMP: 10/23/2025 11:56:25 AM

RTU-1, RTU-2 AND RTU-3 - VARIABLE AIR VOLUME:

1. RTU major components are as follows: DX cooling coil (2 variable & 2 fixed stages), variable flow supply fan, isolation dampers inlet and outlet isolation, will be factory mounted and wired in the unit and filters.

2. The system shall operate under the control of a factory configurable controller. The factory configurable controller shall have BACnet MS/TP communication protocol to map points to the BAS user interface and command setpoints. Coordinate points, mapping and graphics with the equipment manufacturer. Wiring between the units shall be the responsibility of the TCC.

3. The police station has 24-7 operations and the RTUs will not be scheduled for unoccupied.

4. Factory controller handles the fan control and synchronization between unit set points, DSP, etc. (via Leader/Member). The BMS (by TCC) will handle the enable/disable of units for lead/lag or to start the stand-by unit in the event a unit is disabled/fails.

5. The fan status shall be monitored at the BAS with the factory BACnet point.

6. The TCC shall install the factory provided duct static pressure sensors and wire to the units configurable controllers.

7. Supply air fan control:

8. The three RTU shall operate on a common duct static pressure sensor. There are 3 sensors, and the units shall control to maintain worst case reading. The fan shall modulate to maintain setpoint and stage additional RTU as required to maintain the common Duct static pressure setpoint.

9. In general, when an RTU fan is 85%, stage on a 2nd RTU and track the fans together, if both fans reach 85%, stage on a 3rd RTU and track together. The manufacturer shall coordinate the timing and the delays to ensure no short-cycling or disruption to the DX cooling.

10. The DDC System Shall Determine The Vav Box With Greatest Vav Ratio (Actual Airflow/ Design Airflow) Once Every 10 Minutes. The Unit's Supply Air Static Pressure Setpoint Shall Be Increased By 0.1" Wc If Vav Box With Greatest Ratio Is 90% (Adj.) Or More. The Unit's Supply Air Static Pressure Setpoint Shall Be Decreased By 0.1" Wc all Vav Boxes With Greatest Damper Open Position Is

65%(Adj) Or Less. Setpoint shall be reset between minimum and maximum setpoint of 0.5" and 1.25".

11. The graphics will indicate the VAV box with the greatest open position, CFM and link to the VAV box for trouble shooting. If at setpoint is 1.25" wc (adj.) for 72 hours (adj.) And the same terminal box is above 95% then a maintenance alarm shall be generated.

12. Cooling mode: The factory controller modulates and stage the DX cooling coil to maintain a coil discharge air temperature setpoint of 53F (adj)

13. Heating: Provided at the VAV terminal units.

14. Ventilation: Provided by the ERV to the Unit return.

15. Smoke shutdown: smoke detectors shall be located in the supply and return air streams. If smoke is detected, the supply and return fans shall de-activate and an audio/visual alarm shall activate. Upon correction of the problem, the system shall be reset and unit shall return to normal operation.

16. Over pressurization control: a static pressure sensor shall be located at the AHU supply air outlet and return air inlet, before any fire dampers or smoke dampers. If the pressure in the supply duct exceeds 2.0" w.g. (adj.) In the supply air duct or -2.0" w.g. (adj.) In the return air duct, then the fan shall be de-activated. Upon correction of the problem, the system shall be reset and unit shall return to normal operation.

17. Maintenance: A runtime alarm shall be provided for filter changes and equipment service.

Reference Info:

· Project Name: Jupiter Police Station

· Project Location: Jupiter, FL

· Unit Type: C-Series

· Unit Tags: 12000

Control Application Summary:

· This C-Series unit is a heat/cool air handling unit. Key components include; supply fan, direct expansion coil (cooling), and a unit

· controller.

· The unit controller provides control of temperature, ventilation, as well as, unit status, component safeties, alarm and diagnostic

· information.

· The unit controller will maintain a constant supply temperature set point. The supply fan is controlled to maintain supply duct pressure as

· demand from the system's VAV boxes varies.

· This unit contains a system utilizing a refrigerant classified by ASHRAE 34 as an A2L. In accordance with UL standard 60335-2-40, the

· unit includes a refrigerant leak mitigation control sequence to provide the required airflow in the event of a leak detected within the air

· tunnel. This control will override any mode of operation with the only exception being building fire and smoke function(s).

Operating States

Occupied

· Supply Fan on, control per sequence.

· Cooling enabled.

· All dampers are enabled.

Supply Fan Control

· The supply fan variable speed shall modulate based on the supply duct static pressure set point: ##" WC adjustable.

Refrigerant Leak Mitigation Safety Control

· Upon detection of a refrigerant leak, the following safety measures shall be executed:

o Fan(s) enabled

o Compressor(s) disabled

o Ignition source(s) disabled

o Activate an alarm, available to the building, if additional safety measure(s) are required

Operating Modes

Cooling

· Cooling Mode: The direct expansion coil is controlled to maintain the unit supply temperature set point.

· Cooling Lockout: The direct expansion coil will be locked out when the outside air is < 50°F, adjustable.

Supply Temperature Set Point

· The unit controller will maintain a constant unit occupied supply temperature: ##°F, adjustable.

Demand Control Ventilation

· The outside air damper and return air damper will modulate together to satisfy the return CO2 set point: 1000ppm, adjustable.

· The outside air damper will respond to the highest demand between the CO2 and economizer control loops.

Non-Shutdown Safeties

Filter Pressure Transducer(s)

· If the filter differential pressure rises above the adjustable set point, the unit controller shall activate an alarm.

Unit Shutdown Safeties

Supply Temperature Low Limit

· If the unit supply temperature drops below 35°F (adjustable), the unit controller shall shut down the unit after an adjustable time delay.

Supply Temperature High Limit

· If the unit supply temperature rises above 120°F (adjustable), the unit controller shall shut down the unit after an adjustable time delay.

Phase/Voltage Monitor

· A phase/voltage protection relay shall be provided for each unit. Upon sensing a loss of phase or voltage, the unit shall immediately shut down.

Condensate Drain Pan Overflow Switch

· In the case of an overfull drain pan, the switch shall signal the unit controller to activate an alarm and shut down the unit.

Smoke Detector(s)

· Return and/or supply smoke detector(s), provided, installed and field wired in series, by others. Upon detecting smoke, the smoke detector(s) shall send a single binary signal to the unit controller to immediately shut down the unit.

High Limit Duct Static Pressure Switch

· If supply duct static pressure rises above the switch set point (##" W.C., adjustable), the differential pressure switch shall signal the unit controller to immediately shut down the unit.

Low Limit Duct Static Pressure Switch

· If return duct static pressure falls below the switch set point (##" W.C., adjustable), the differential pressure switch shall signal the unit controller to immediately shut down the unit.

Sequence Required Sensors

Analog (Factory)

· Supply Air Temperature

· Outside Air Temperature

· Return Air Temperature

· Direct Expansion Coil Leaving Air Temperature

· Supply Duct Static Pressure

· Filter Pressure Sensor

· Space Carbon Dioxide

Digital (Factory)

· Supply Fan Status

· Condensate Overflow Switch

· Phase/Voltage Protection Relay

· High Supply Duct Static Switch

· Low Return Duct Static Switch

· Refrigerant Leak Detection Monitoring

1 RTU - 1, 2 & 3 SEQUENCE OF OPERATIONS
NTS

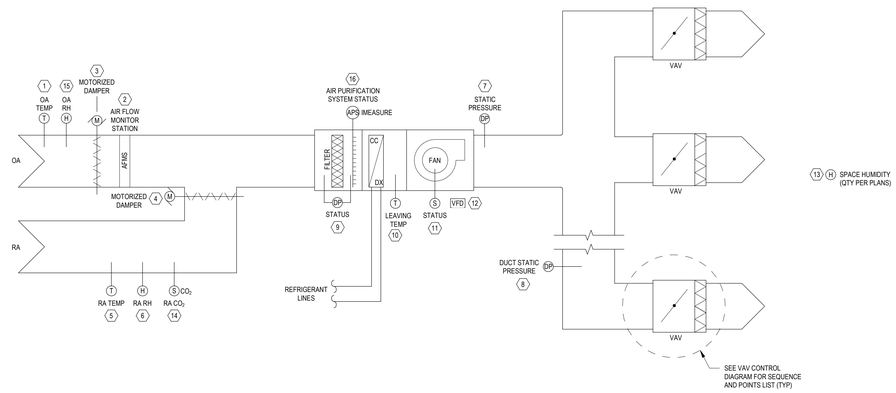
CONTROL POINTS (X)

CONTROL POINTS

1. OA TEMP
2. OA FLOW RATE
3. OA DAMPER POSITION
4. RA DAMPER POSITION
5. RA TEMP
6. RA RELATIVE HUMIDITY
7. HIGH STATIC LIMIT
8. DUCT SYSTEM STATIC PRESSURE
9. FILTER STATUS / DP
10. COIL LEAVING AIR TEMP
11. FAN STATUS
12. VFD INTERFACE
13. SPACE RELATIVE HUMIDITY
14. RETURN CO2
15. OA RELATIVE HUMIDITY
16. AIR PURIFICATION SYSTEM STATUS (IMEASURE).

ALARMS

1. SA HIGH STATIC
2. SA FAN FAILED TO START
3. SPACE RH ABOVE SETPOINT
4. CO2 LEVEL ABOVE SETPOINT
5. OA DAMPER FAILED



SUPPLY FAN CONTROL:

THE FAN CAN BE STARTED BASED ON ANY OF THE FOLLOWING CONDITIONS:

1. WHEN THE SYSTEM IS PUT INTO WARM UP / COOL DOWN MODE (THRU THE EMS SYSTEM).
2. WHEN THE SYSTEM IS PUT IN THE OCCUPIED MODE (THRU THE EMS SYSTEM).
3. WHEN THE SYSTEM IS IN THE UNOCCUPIED MODE WITH A CALL FOR TEMPERATURE OR DEHUMIDIFICATION OVERRIDE (THRU THE EMS SYSTEM).
4. WHEN THE SYSTEM IS MANUALLY PUT IN AN OVERRIDE MODE (THRU THE EMS SYSTEM).
5. IF THE HAND-OFF-AUTO SWITCH LOCATED ON THE VFD IS PUT IN THE HAND POSITION ONLY THE FAN STARTS.

WHEN THE FAN IS INDEXED TO START VIA THE OPERATIONAL MODE SELECTION, THE VARIABLE FREQUENCY DRIVE SHALL INCREASE THE SUPPLY FAN(S) SPEED SLOWLY OVER A PERIOD OF 1 MINUTE (ADJ.) TO ACHIEVE THE DUCT STATIC PRESSURE SETPOINT. THE VARIABLE FREQUENCY DRIVE SHALL CONTINUE TO MODULATE THE FAN SPEED AS REQUIRED TO MAINTAIN THE CURRENT STATIC PRESSURE SETPOINT. THE ASSOCIATED EXHAUST FANS ARE STARTED, OUTDOOR AIR DAMPERS WILL MODULATE OPEN (SEE BELOW) AND THE UNIT CONTROL LOOPS ARE ENABLED.

STATIC PRESSURE CONTROL:

WHEN THE SUPPLY FAN PROOF OF FLOW HAS BEEN DETERMINED THE SUPPLY FAN STATIC LOOP IS ALLOWED TO CONTROL. THE SUPPLY FAN SPEED IS RAMPED UP ON FAN START-UP AND THEN MODULATED TO MAINTAIN DISCHARGE STATIC PRESSURE SETPOINT DEPENDING IF IN THE OCCUPIED MODE OR NOT.

FAN STATIC PRESSURE SETPOINT RESET:

THE BCS SYSTEM SHALL CONTINUOUSLY MONITOR THE DAMPER POSITION AND AIRFLOWS OF ALL VAV TERMINALS SERVED BY THE ROOFTOP UNIT. THE SYSTEM SHALL EVALUATE THE DUCT STATIC PRESSURE CONDITIONS EVERY 10 MINUTES (ADJ.)

THE SYSTEM SHALL HAVE A MINIMUM AND MAXIMUM SETTING FOR THE SUPPLY AIR STATIC SETPOINT TO BE ADJUSTABLE AND DETERMINED DURING TEST AND BALANCE. UPON FAN INITIAL STARTUP THE MINIMUM SETPOINT SHALL BE THE STARTING POINT FOR FAN CONTROL.

IN THE EVENT THAT ALL VAV TERMINALS ARE SATISFIED (I.E. ALL VAV TERMINALS ARE AT LESS THAN 100% MAXIMUM OPEN POSITION AND ANY THAT ARE AT 100% MAXIMUM POSITION ARE DELIVERING AT LEAST 95% (ADJ.) OF THE SUPPLY AIR FLOW MAXIMUM SETPOINT) THE DUCT STATIC PRESSURE SETPOINT SHALL DECREASE BY 0.1" W.C.

IN THE EVENT THAT ANY VAV TERMINAL IS NOT SATISFIED WITH VALVE AT THE 100% MAXIMUM OPEN POSITION AND IS DELIVERING LESS THAN 95% (ADJ.) OF THE SUPPLY AIR FLOW MAXIMUM SETPOINT, THE DUCT STATIC PRESSURE SETPOINT SHALL INCREASE BY 0.1" W.C.

THE ABILITY SHALL BE PROVIDED TO BLACKLIST ANY PROBLEM ZONE THAT WILL NOT BE CONSIDERED IN THE STATIC PRESSURE SETPOINT ADJUSTMENT.

THE RTU GRAPHICS SCREEN SHALL INCLUDE THE CURRENT STATIC PRESSURE SETPOINT AND CURRENT STATIC PRESSURE READING AS WELL AS IDENTIFY ANY ZONES THAT ARE NOT SATISFIED IN TERMS OF AIRFLOW.

EACH SYSTEM SHALL HAVE A MINIMUM TOTAL SYSTEM SUPPLY AIRFLOW SETPOINT TO AVOID SURGE AS RECOMMENDED BY THE MANUFACTURER. IN THE EVENT THAT THE SYSTEM TOTAL FLOW DROPS TO WITHIN 10% (ADJ.) OF THE MINIMUM AIRFLOW SETPOINT, THE SYSTEM SHALL RESET THE STATIC PRESSURE SETPOINT TO THE MINIMUM SETTING. UPON A CONTINUED DROP IN TOTAL SYSTEM FLOW BELOW THE MINIMUM SETPOINT, THE VAV TERMINAL MINIMUM FLOW OVERRIDE SAFETY SHALL ENABLE.

RTU MAIN COOLING COIL CONTROL:

WHEN COOLING IS ENABLED, THE COMPRESSOR(S) ARE STAGED TO MAINTAIN THE UNITS DISCHARGE AIR TEMPERATURE SETPOINT (ADJ.). THE DDC SHALL CONTINUOUSLY MONITOR THE ZONE SPACE TEMPERATURE, RETURN AIR HUMIDITY AND ZONE SPACE HUMIDITY (WHERE APPLICABLE). THE SYSTEM SHALL EVALUATE THE SUPPLY AIR LEAVING CONDITIONS EVERY 5 MINUTES (ADJ.).

IF THERE ARE NO RELATIVE HUMIDITY ALARMS IN EXCESS OF THE HUMIDITY ALARM SETPOINT (ADJ.) AND ALL ZONES SPACE TEMPERATURES ARE WITHIN 1/2F (ADJ) ABOVE THE SPACE TEMPERATURE SETPOINT, THE SUPPLY AIR LEAVING TEMPERATURE SETPOINT SHALL BE DECREASED BY 1F. LEAVING AIR TEMPERATURE SHALL NOT EXCEED 60 DEGF.

IF THERE ARE ANY RELATIVE HUMIDITY ALARMS IN EXCESS OF THE HUMIDITY ALARM SETPOINT (ADJ.) OR ANY ZONE SPACE TEMPERATURES THAT ARE MORE THAN 1/2F (ADJ) ABOVE THE SPACE TEMPERATURE SETPOINT, THE SUPPLY AIR LEAVING TEMPERATURE SETPOINT SHALL BE DECREASED BY 1F.

THE ABILITY SHALL BE PROVIDED TO BLACKLIST ANY PROBLEM ZONE THAT WILL NOT BE CONSIDERED IN THE STATIC PRESSURE SETPOINT ADJUSTMENT.

AIR PURIFICATION CONTROL:

THE AIR PURIFICATION SYSTEM SHALL BE ENABLED WHENEVER THE SUPPLY FAN IS ENABLED.

OUTSIDE AIR OCCUPIED - UNOCCUPIED CONTROL:

WHEN ENABLED, THE OUTSIDE AIR AND RETURN AIR DAMPERS SHALL MODULATE TO MAINTAIN THE OUTDOOR AIR FLOW SETPOINT PER THE FOLLOWING. THE RETURN DAMPER SHALL REMAIN FULLY OPEN WHILE THE OUTSIDE AIR DAMPER IS MODULATED TO MAINTAIN THE SETPOINT. IN THE EVENT THAT THE OUTSIDE AIR DAMPER IS FULLY OPEN AND THE OUTSIDE AIR IS BELOW THE SETPOINT, THEN THE RETURN AIR DAMPER SHALL MODULATE CLOSED AS REQUIRED TO MAINTAIN THE OUTSIDE AIR FLOW SETPOINT. THE SEQUENCE WILL OCCUR IN REVERSE ORDER AS THE RETURN AIR MODULATES OPEN. AT NO TIME ARE THE OUTSIDE AIR DAMPER AND RETURN DAMPER TO MODULATE AT THE SAME TIME. A RETURN AIR MINIMUM DAMPER POSITION OF 30% (ADJ.) SHALL BE MAINTAINED AND THE RETURN AIR DAMPER SHALL NEVER BE ABLE TO GO FULLY CLOSED.

RELATIVE HUMIDITY OVERRIDE CONTROL:

IF THE SPACE RELATIVE HUMIDITY RISES TO ABOVE 65% (ADJ.) THE LEAVING AIR DISCHARGE SETPOINT IS RESET DOWN TO THE DESIGNED DISCHARGE TEMPERATURE. IF THE SYSTEM IS IN UNOCCUPIED MODE, THE FAN AND COOLING COIL LEAVING AIR TEMPERATURE CONTROL SEQUENCES SHALL BE INITIATED UNTIL THE RELATIVE HUMIDITY LEVELS DROP BELOW THE SETPOINT. OUTDOOR AIR TO REMAIN DISABLED.

UNOCCUPIED MODE LOCAL TEMPERATURE OVERRIDE:

EACH SPACE TEMPERATURE SENSOR SHALL BE PROVIDED WITH A LOCAL OVERRIDE BUTTON. UPON ACTIVATION OF THE LOCAL OVERRIDE, THE UNIT SERVING THAT ZONE SHALL BE ENERGIZED AND THE STANDARD COOLING COIL, FAN OPERATION SHALL BE INITIATED. THE VAVS SERVING THE NON-OVERRIDE ZONES SHALL OPERATE AT THEIR SCHEDULED MINIMUM AIRFLOWS TO MAINTAIN THEIR UNOCCUPIED SETPOINTS. THE VAV SERVING THE OVERRIDE ZONE SHALL OPERATE IN OCCUPIED MODE WITH OCCUPIED SETPOINTS FOR HEATING AND COOLING. OVERRIDE DURATION SHALL BE FOR A PERIOD OF 1 HOUR (ADJ.) AT WHICH TIME ALL COMPONENTS WILL RESUME NORMAL UNOCCUPIED STATE. OUTSIDE AIR AND EXHAUST/RELIEF SYSTEMS SHALL REMAIN IN UNOCCUPIED MODE UNLESS CO2 LEVELS FROM ANY SENSOR ASSOCIATED WITH THE OVERRIDEN SYSTEM RISES ABOVE THE SETPOINT. UPON A RISE IN CO2 ABOVE THE SETPOINT, THE OCCUPIED OUTSIDE AIR, RELIEF DAMPER AND EXHAUST FAN SEQUENCES FOR EQUIPMENT SERVING THE SAME AREA/SYSTEMS SHALL BE INITIATED UNTIL THE CO2 LEVELS DROP 10% (ADJ.) BELOW THE CO2 LEVEL SETPOINT.

FIRE PROTECTION:

DUCT SMOKE DETECTORS SHALL BE LOCATED IN THE SUPPLY AND RETURN DUCTS IN ACCORDANCE WITH NFPA 72. UPON SENSING OF SMOKE A DETECTOR SHALL SHUT "OFF" THE UNIT FAN(S) AND THE ASSOCIATED EXHAUST FAN(S), THE SMOKE DETECTORS SHALL BE MANUALLY RESET FROM THE FIRE ALARM PANEL.

HIGH STATIC ALARM:

AN ALARM SHALL BE GENERATED IN THE EVENT THE HIGH DUCT STATIC PRESSURE SWITCH IS TRIPPED (WITH MANUAL RESET).

SAFETIES:

THE FOLLOWING SAFETIES SHALL SHUT DOWN THE UNIT UPON ALARM CONDITION:

1. A FIRE ALARM CONDITION.
2. THE HIGH DISCHARGE STATIC PRESSURE SWITCH TRIPS (W/ MANUAL RESET) AND AN ALARM IS GENERATED.

AIR PURIFICATION FAILURE:

UPON AN AIR PURIFICATION FAILURE, AN ALARM SHALL BE GENERATED AT THE DDC FRONT END SYSTEM.

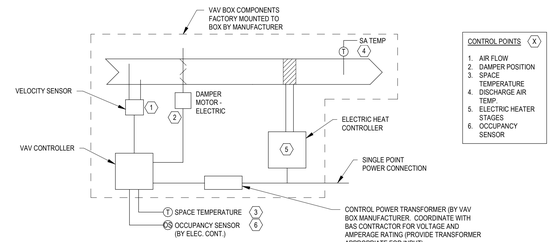
SHUTDOWN:

THE FOLLOWING OCCURS WHEN THE RTU FAN(S) IS STOPPED EITHER BY SAFETIES AS NOTED ABOVE OR IF IN ITS UNOCCUPIED MODE:

1. THE OA DAMPER CLOSES AND THE RETURN AIR DAMPER OPENS.
2. THE COMPRESSOR(S) ARE DE-ENERGIZED.
3. THE INTERLOCKED EXHAUST FANS PER ITS SCHEDULE ARE STOPPED.

IF THE SUPPLY STATIC PRESSURE FAILS TO INCREASE ABOVE A MINIMUM SETPOINT, THE DDC SYSTEM USES THIS TO CONFIRM THE FAN IS IN THE DESIRED STATE AND GENERATES AN ALARM IF THE STATUS DEVIATES FROM THE DDC START/STOP CONTROL.

2 ROOFTOP UNIT WITH VAVS CONTROL SCHEMATIC
NTS



CONTROL POINTS (X)

1. AIR FLOW
2. DAMPER POSITION
3. SPACE TEMPERATURE
4. DISCHARGE AIR TEMP.
5. ELECTRIC HEATER STAGES
6. OCCUPANCY SENSOR

VAV SEQUENCE:

EACH VAV SHALL BE PROVIDED WITH INDEPENDENT SETPOINTS FOR THE FOLLOWING CONDITIONS:

SYSTEM MODE	ZONE MODE	COOLING TEMP	HEATING TEMP	MINIMUM AIRFLOW
UNOCCUPIED	UNOCCUPIED	80	64	TERMINAL RECOMMENDED MINIMUM FLOW
	OCCUPIED	75	69	TERMINAL RECOMMENDED MINIMUM FLOW
OCCUPIED & COOL DOWN/WARMUP	UNOCCUPIED	77	68	TERMINAL RECOMMENDED MINIMUM FLOW
	OCCUPIED	75	69	AS SCHEDULED

WHEN THE ASSOCIATED AIR HANDLING UNIT IS ENABLED THE VAV TERMINAL SHALL OPERATE PER THE FOLLOWING:

UPON RISE IN SPACE TEMPERATURE ABOVE THE SPACE COOLING SETPOINT, AIR VALVE SHALL OPEN TO INCREASE SUPPLY AIR FLOW. UPON FALL IN SPACE TEMPERATURE THE REVERSE SHALL OCCUR UNTIL THE AIR VALVE REACHES THE MINIMUM AIRFLOW SETPOINT. IF SPACE TEMPERATURE CONTINUES TO FALL BELOW THE SPACE HEATING SETPOINT THE ELECTRIC HEAT SHALL STAGE ON TO RAISE SUPPLY AIR TEMPERATURE AS REQUIRED TO MAINTAIN THE SPACE HEATING SETPOINT.

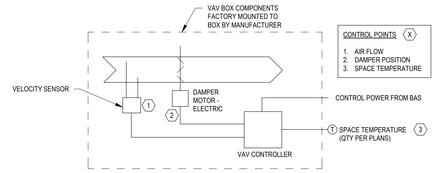
THE SYSTEM OCCUPIED / UNOCCUPIED MODE SHALL BE DETERMINED BY THE MODE IN WHICH THE ASSOCIATED AHU IS OPERATING IN.

FOR VAV'S SERVING LARGE ZONES WITH OCCUPANCY SENSORS SUCH AS CLASSROOMS AND CONFERENCE ROOMS, THE ZONE OCCUPIED / UNOCCUPIED MODE SHALL BE DETERMINED BY THE SPACE MOUNTED OCCUPANCY SENSOR. FOR ALL OTHER SPACES THE ZONE SETTINGS WOULD MATCH THE SYSTEM SETTINGS.

THE ZONE OCCUPIED / UNOCCUPIED MINIMUM AIRFLOW SETPOINTS SHALL BE DETERMINED BY SIGNAL FROM OCCUPANCY SENSOR (BY ELECTRICAL CONTRACTOR). COORDINATE AND PROVIDE ALL REQUIRED CONTROL INTERFACE, RELAYS, WIRING FOR INTERCONNECTION OF OCCUPANCY SENSOR WITH LIGHTING CONTROL / OCCUPANCY SENSOR MANUFACTURER.

SYSTEM MINIMUM FLOW VAV OVERRIDE: WHEN COMMANDED FROM THE AHU CONTROLLER, THE VAV MINIMUM SETPOINTS SHALL BE OVERRIDDEN AS OUTLINED IN THE VAV AIR HANDLING UNIT CONTROL SEQUENCE.

3 VAIRABLE AIR VOLUME SYSTEM W/ ELECTRIC HEAT
NTS



CONTROL POINTS (X)

1. AIR FLOW
2. DAMPER POSITION
3. SPACE TEMPERATURE

VAV SEQUENCE:

THE BAS SHALL CONTINUOUSLY MONITOR THE SPACE TEMPERATURES OF SPACES SERVED WITH TEMPERATURE SENSORS.

THE VAV TERMINAL SHALL MODULATE AIRFLOW AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE COOLING SETPOINT(S). THE SPACE SETPOINTS (ADJ.) ARE AS FOLLOWS IN PRIORITY OF THE ORDER LISTED:

1. SYSTEMS - 75°F
2. ELECTRICAL - 85°F
3. MECHANICAL - 78°F

IN THE EVENT ANY ONE SPACE TEMPERATURE DROPS BELOW 68°F (ADJ.) THE VAV CONTROL SHALL BE OVERRIDDEN TO MAINTAIN THE WORST CASE MINIMUM TEMPERATURE.

4 VARIABLE AIR VOLUME SYSTEM - COOLING ONLY
NTS

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DATE STAMP: 10/23/2025 11:56:30 AM

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REGISTRATION

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DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
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PROJECT STATUS

90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

1007657.00

SHEET TITLE

CONTROLS - HVAC

SHEET NUMBER

M7.01

COMMISSIONING NOTES:

C408.3.1 LIGHTING SYSTEM FUNCTIONAL TESTING:
PRIOR TO PASSING FINAL INSPECTION, THE REGISTERED DESIGN PROFESSIONAL SHALL PROVIDE EVIDENCE THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS. FUNCTIONAL TESTING SHALL BE IN ACCORDANCE WITH SECTIONS C408.3.1.1 THROUGH C408.3.1.3 FOR THE APPLICABLE CONTROL TYPE. A SUMMARY OF THE TEST PROCEDURES INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

C408.3.1.1 OCCUPANT SENSOR CONTROLS:
CONFIRM THAT THE PLACEMENT, SENSITIVITY, AND TIME-OUT ADJUSTMENTS FOR OCCUPANT SENSORS YIELD ACCEPTABLE PERFORMANCE.

C408.3.1.2 TIME SWITCH CONTROLS:
CONFIRM THAT THE TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF.

C408.3.1.3 DAYLIGHT RESPONSIVE CONTROLS:
CONFIRM THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR PHOTOSENSOR CONTROLS REDUCE ELECTRIC LIGHT BASED ON THE AMOUNT OF USABLE DAYLIGHT IN THE SPACE AS SPECIFIED.

C408.3.2 DOCUMENTATION REQUIREMENTS:
THE CONSTRUCTION DOCUMENTS SHALL SPECIFY THAT THE DOCUMENTS DESCRIBED IN THIS SECTION BE PROVIDED TO THE BUILDING OWNER OR OWNER'S AUTHORIZED AGENT WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

C408.3.2.1 DRAWINGS:
CONSTRUCTION DOCUMENTS SHALL INCLUDE THE LOCATION AND CATALOGUE NUMBER OF EACH PIECE OF EQUIPMENT.

C408.3.2.2 MANUALS:
AN OPERATING AND MAINTENANCE MANUAL SHALL BE PROVIDED AND INCLUDE THE FOLLOWING:
1. NAME AND ADDRESS OF NOT LESS THAN ONE SERVICE AGENCY FOR INSTALLED EQUIPMENT.
2. A NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING RECOMMENDED SETPOINTS.
3. SUBMITTAL DATA INDICATING ALL SELECTED OPTIONS FOR EACH PIECE OF LIGHTING EQUIPMENT AND LIGHTING CONTROLS.
4. OPERATION AND MAINTENANCE MANUALS FOR EACH PIECE OF LIGHTING EQUIPMENT. REQUIRED ROUTINE MAINTENANCE ACTIONS, CLEANING AND RECOMMENDED RELAMPING SHALL BE CLEARLY IDENTIFIED.
5. A SCHEDULE FOR INSPECTING AND RECALIBRATING ALL LIGHTING CONTROLS.

C408.3.2.3 REPORT:
A REPORT OF TEST RESULTS SHALL BE PROVIDED AND INCLUDE THE FOLLOWING:
1. RESULTS OF FUNCTIONAL PERFORMANCE TESTS.
2. DISPOSITION OF DEFICIENCIES FOUND DURING TESTING,INCLUDING DETAILS OF CORRECTIVE MEASURES USED OR PROPOSED.

COMPLETION REQUIREMENTS:

RECORD DRAWINGS:
PER C405.5.4.1 - CONTRACTOR SHALL PROVIDE WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION TO THE BUILDING OWNER INCLUDING:
1. A SINGLE LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM AND
2. FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.

MANUALS:
PER C405.5.4.2, OPERATION MANUALS & MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNER. THE MANUALS SHALL INCLUDE AT A MINIMUM THE FOLLOWING:
1. SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
2. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
3. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.

ELECTRICAL SYMBOLS LEGEND

NOTE: THESE ARE STANDARD SYMBOLS AND ALL MAY NOT APPEAR ON THE PROJECT DRAWINGS.

LIGHTING

NOTE:
UPPER CASE LETTER INDICATES FIXTURE TYPE, SEE LIGHTING FIXTURE SCHEDULE AND DRAWINGS. LOWER CASE LETTER INDICATES SWITCH CIRCUIT.

- 2X4 LUMINAIRE - CEILING MOUNTED
- 2X4 LUMINAIRE - CEILING MOUNTED, LIFE SAFETY BRANCH
- 2X2 LUMINAIRE - CEILING MOUNTED
- INDUSTRIAL STRIP FIXTURE
- INDUSTRIAL STRIP FIXTURE - EMERGENCY POWER (VERIFY BRANCH OF ESSENTIAL ELECTRICAL SYSTEM WITH DRAWINGS)
- LINEAR FIXTURE - WALL MOUNTED
- LINEAR FIXTURE - WALL MOUNTED, LIFE SAFETY BRANCH
- DOWNLIGHT LUMINAIRE - RECESSED
- DOWNLIGHT FIXTURE - RECESSED, EMERGENCY POWER (VERIFY BRANCH OF ESSENTIAL ELECTRICAL SYSTEM WITH DRAWINGS)
- DOWNLIGHT LUMINAIRE - SURFACE MOUNTED
- DOWNLIGHT LUMINAIRE - SURFACE MOUNTED, EMERGENCY POWER (VERIFY BRANCH OF ESSENTIAL ELECTRICAL SYSTEM WITH DRAWINGS)
- WALL WASH LUMINAIRE - RECESSED
- WALL MOUNTED LUMINAIRE
- WALL MOUNTED LUMINAIRE, EMERGENCY POWER (VERIFY BRANCH OF ESSENTIAL ELECTRICAL SYSTEM WITH DRAWINGS)
- FIXTURE - PENDANT MOUNTED
- UNIVERSAL MOUNTING EXIT LIGHTS, SINGLE AND DOUBLE FACED, ARROWS AS SHOWN ON FLOOR PLANS
- WALL MOUNTED EXIT LIGHTS, SINGLE FACED
- END MOUNTED EXIT LIGHTS, SINGLE AND DOUBLE FACED, ARROWS AS SHOWN ON FLOOR PLANS
- EMERGENCY BATTERY PACK, HEADS AS INDICATED
- REMOTE EMERGENCY LIGHT

SWITCHES

- $_{AS}$ LOWER CASE SUBSCRIPTS INDICATE OUTLET CONTROLLED
- $_{S}$ SINGLE POLE SWITCH (UNLESS NOTED BY SUBSCRIPT)
  (OS) OCCUPANCY SENSOR TYPE SWITCH
  (VR) LOW VOLTAGE LIGHTING CONTROL OVERRIDE SWITCH
  (TS) DIGITAL TIMMING SWITCH - 4 HOURS MAX OVERRIDE.
  (LVD) LOW VOLTAGE DIMMER SWITCH WITH ON/OFF/RAISE/LOWER BUTTONS
  (OSD) DIMMABLE OCCUPANCY SENSOR TYPE SWITCH WITH ON/OFF/RAISE/LOWER BUTTONS
  (T) SINGLE PHASE MOTOR STARTING SWITCH
- OCCUPANCY/VACANCY SENSOR, DUAL TECHNOLOGY, LOW VOLTAGE WITH POWER PACKS. SENSOR SHALL CONTAIN AN AUXILIARY RELAY FOR HVAC CONTROLS EMS INTERFACE.
- PHOTOCELL

CONDUIT AND WIRE

- CONDUIT CONCEALED IN WALLS OR ABOVE CEILINGS
- CONDUIT CONCEALED UNDERGROUND OR IN SLAB
- CONDUIT HOMERUN - EC SHALL CONSIDER CIRCUIT DISTANCES AND AMOUNT OF CONDUCTORS IN A CONDUIT.

RECEPTACLES

NOTES:
1. ALL RECEPTACLES SHALL BE RATED 120V, 20A, U.N.O.
2. ALL 120V, 20A, RECEPTACLES LOCATED IN DAMP AND/OR WET LOCATIONS SHALL BE LISTED "WEATHER-RESISTANT" (TYPE WR).

- DUPLEX RECEPTACLE: MOUNTED 18" AFF UNLESS NOTED OTHERWISE.
  * (G) DUPLEX GFCI RECEPTACLE
  (IG) DUPLEX ISOLATED GROUND RECEPTACLE.
  (USB) RECEPTACLE; 2-POWER, 2-USB
  (WPG) DUPLEX GFCI WEATHER RESISTANT RECEPTACLE, WITH WHILE-IN-USE WEATHERPROOF COVER
  (EWC) ELECTRIC WATER COOLER, COORDINATE LOCATION WITH PLUMBING INSTALLER. LOCATE GFCI RECEPTACLE CENTERED UP UNDER COOLER.
- DUPLEX RECEPTACLE, MOUNT 4" ABOVE COUNTER OR BACKSPLASH. MAXIMUM 48" TO CENTER.
- QUADRUPLEX RECEPTACLE IN TWO GANG BOX COVER.
- DUPLEX RECEPTACLE IN FLOOR BOX.
- QUADRUPLEX RECEPTACLE, MOUNT 4" ABOVE COUNTER OR BACKSPLASH. MAXIMUM 48" TO CENTER.
- DUPLEX RECEPTACLE FLUSH MOUNTED IN CEILING
- SIMPLEX RECEPTACLE
- COMBINATION DATA/TELEPHONE AND DUPLEX RECEPTACLE. MOUNTED IN CAST IRON OR STAINLESS STEEL FLOOR BOX. REFER TO POWER/SYSTEMS FLOOR PLAN FOR EXACT TYPE FLOOR BOX
- L5-20R SPECIAL OUTLET, SUBSCRIPT INDICATES NEMA CONFIGURATION NUMBER

SITE

- T POWER COMPANY TRANSFORMER - UNLESS NOTED
- PARKING LOT OR ROADWAY FIXTURE
- WALKWAY BOLLARD
- FLOODLIGHT
- UTILITY POLE
- GENERATOR - SEE RISER DIAGRAM

POWER CONNECTIONS

- J JUNCTION BOX SIZED PER N.E.C. UNLESS NOTED CEILING MOUNTED
- J JUNCTION BOX
- C ELECTRICAL CONNECTOR
- PB WALL MOUNTED PUSH BUTTON STATION MOUNT AT 7'-0" AFG FOR OUTDOOR INSTALLATIONS AND 4'-0" AFF FOR INDOOR INSTALLATIONS.
- SH WALL MOUNTED SHUNT TRIP STATION MOUNT AT 7'-0" AFG FOR OUTDOOR INSTALLATIONS AND 4'-0" AFF FOR INDOOR INSTALLATIONS
- TC TIME CLOCK
- EPO WALL MOUNTED EMERGENCY POWER OFF STATION MOUNT AT 7'-0" AFG INSTALLATIONS
- EWH ELECTRIC WATER HEATER
- IWH INSTANTANEOUS WATER HEATER
- EF MOTOR CONNECTION, MARK NUMBER WILL IDENTIFY EQUIPMENT, EF, AHU, CU, ETC. SEE MOTOR CONNECTION SCHEDULE.
- 30/2 NON FUSIBLE HEAVY DUTY SAFETY SWITCH, SIZE AND NUMBER OF POLES ARE INDICATED.
- 30/2 3R FUSIBLE HEAVY DUTY SAFETY SWITCH, SIZE AND NUMBER OF POLES ARE INDICATED.
  - ENCLOSURE NEMA RATING
  - DISCONNECT SIZE #POLES
  - FUSE SIZE
- MANUAL MOTOR STARTER
- MAGNETIC STARTER
  * (VFD) PROVIDE WITH VARIABLE FREQUENCY DRIVE CONTROLLER COMPATIBLE WITH VARIABLE FREQUENCY DRIVE.
- COMBINATION MAGNETIC STARTER WITH A CIRCUIT BREAKER.
  * (VFD) PROVIDE WITH VARIABLE FREQUENCY DRIVE CONTROLLER COMPATIBLE WITH VARIABLE FREQUENCY DRIVE.
- COMBINATION MAGNETIC STARTER WITH FUSIBLE HEAVY DUTY SAFETY SWITCH.
  * (VFD) PROVIDE WITH VARIABLE FREQUENCY DRIVE CONTROLLER COMPATIBLE WITH VARIABLE FREQUENCY DRIVE.
- ENCLOSED CIRCUIT BREAKER.
- ATS AUTOMATIC TRANSFER SWITCH - SEE RISER DIAGRAM
- PANELBOARD, LOW VOLTAGE (120/208V) - SEE PANELBOARD SCHEDULES AND RISER DIAGRAM
- PANELBOARD, HIGH VOLTAGE (277/480V) - SEE PANELBOARD SCHEDULES AND RISER DIAGRAM
- DISTRIBUTION PANEL, SEE RISER DIAGRAM
- M POWER COMPANY METERING.
- T DRY-TYPE TRANSFORMER, SEE RISER. FOR CHARACTERISTICS
- SPD SURGE PROTECTION DEVICE

FIRE ALARM SYSTEM

NOTE:
(D) DENOTES DUCT MOUNTED
(C) DENOTES CEILING MOUNTED
(F) DENOTES FLUSH WALL MOUNTED
(UF) DENOTES UNDER FLOOR ACCESS
(WP) DENOTES WEATHERPROTECTED

- BR BEAM DETECTOR, RECEIVER
- BT BEAM DETECTOR, TRANSMITTER
- FD THERMAL DETECTOR, FIXED = RATE-OF-RISE
- FX THERMAL DETECTOR, FIXED TEMP.
- ID SMOKE DETECTOR - IONIZATION
- IR FLAME DETECTOR - INFRARED
- SA SMOKE ALARM - NON-SYSTEM, 120V (PROVIDE WITH BATTERY BACK-UP)
- SD SMOKE DETECTOR - PHOTO
- UV FLAME DETECTOR - UV
- CO CARBON MONOXIDE DETECTOR
- F MANUAL PULL STATION
- H MAGNETIC DOOR RELEASE
- CE CONTROL ELEMENT
- FS FLOW SWITCH (FIRE SPRINKLER)
- KB KNOX BOX, MOUNTED AT 7'-0" AFG OR @ HEIGHT INDICATED ON FLOOR PLAN.
- TS TAMPER SWITCH (VALVE SUPERVISION)
- RR CONTROL RELAY
- RT REMOTE TEST INDICATOR
- FSD FIRE SMOKE DAMPER
- SDH DOOR HOLDER/CLOSER WITH INTEGRAL SMOKE DETECTOR
- S FIRE SPRINKLER SOLENOID VALVE
- G GAS SOLENOID VALVE
- F SIGNALING APPLIANCE - HORN
  * (V) WITH VISUAL SIGNAL (STROBE, 75CD UNLESS NOTED) - MOUNTED 80" A.F.F. TO BOTTOM OF STROBE
- SP SIGNALING APPLIANCE - SPEAKER
  * (V) WITH VISUAL SIGNAL (STROBE, 75CD UNLESS NOTED) - MOUNTED 80" A.F.F. TO BOTTOM OF STROBE
- SIGNALING APPLIANCE - STROBE (75CD UNLESS NOTED) - MOUNTED 80" A.F.F. TO BOTTOM OF STROBE
- F SIGNALING APPLIANCE - CEILING MOUNTED HORN
  * (V) WITH VISUAL SIGNAL (STROBE, 75CD UNLESS NOTED)
- SP SIGNALING APPLIANCE - CEILING MOUNTED SPEAKER
  * (V) WITH VISUAL SIGNAL (STROBE, 75CD UNLESS NOTED)
- SIGNALING APPLIANCE - CEILING MOUNTED STROBE ONLY (STROBE, 75CD UNLESS NOTED)
- F FIRE ALARM SYSTEM RACEWAY
- ZIM ZONE INTERFACE DEVICE
- FAAP FIRE ALARM ANNUNCIATOR PANEL
- FACP FIRE ALARM CONTROL PANEL
- FZCP FIRE ALARM ZONE PANEL
- FATC FIRE ALARM TERMINAL CABINET
- FATP FIREMAN'S TELEPHONE PANEL

ABBREVIATIONS:

A	AMPERES
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AL	ALUMINUM
ANNUN	ANNUNCIATOR
ARCH	ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BLDG	BUILDING
C	CONDUIT
CAT	CATALOG
CKT	CIRCUIT
CU	COPPER
CB	CIRCUIT BREAKER
CT	CURRENT TRANSFORMERS
DWG	DRAWING
FT	FEET
G	GROUND
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPT
IG	ISOLATED GROUND
KVA	KILOVOLT-AMPERES
KW	KILOWATTS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
NEC	NATIONAL ELECTRICAL CODE
NC	NORMALLY CLOSED
NL	NIGHT LIGHT CIRCUIT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NIC	NOT IN CONTACT
Ø	PHASE
POS	POINT OF SCALE
PVC	POLYVINYL CHLORIDE
P/T	POTENTIAL TRANSFORMER
R	RECESSED
SCR	SHORT CIRCUIT RATING
SURF	SURFACE
TEL	TELEPHONE
TYP	TYPICAL
UG	UNDERGROUND
UNIV	UNIVERSAL
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
W	WATTS
WP	WEATHERPROOF
WPG	WEATHERPROOF WITH GROUND FAULT INTERRUPT
XFMR	TRANSFORMER
Y	WYE

GENERAL NOTES:

1. PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR A COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEM WHETHER INDICATED OR NOT.
2. CODES AND STANDARDS: ALL ELECTRICAL WORK SHALL BE IN STRICT COMPLIANCE WITH OSHA REQUIREMENTS, THE NATIONAL ELECTRICAL CODE, THE FLORIDA BUILDING CODE, AND POWER COMPANY REQUIREMENTS AND STANDARDS. ALL MATERIALS SHALL BE NEW UNLESS SPECIFIED OTHERWISE AND FREE FROM DEFECTS, AND SHALL BEAR THE UNDERWRITER'S LABEL FOR ITS INTENDED USE AND PURPOSE.
3. CONTRACTOR SHALL THOROUGHLY INVESTIGATE SITE BEFORE BIDDING. NO CHANGES WILL BE ALLOWED IN CONTRACT PRICE FOR WORK REQUIRED TO COMPLY WITH EXISTING CONDITIONS.
4. WORKMANSHIP SHALL MEET N.E.C.A. GUIDELINES AND NEC 110.12.
5. IF, THROUGH ERRORS OR OMISSIONS, THE INTENT OF THE ARCHITECT OR ENGINEER, WITH REGARD TO ANY DETAIL, IS NOT CLEAR, OR IS CAPABLE OF MORE THAN ONE INTERPRETATION, SUCH MATTERS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER IN WRITING BEFORE THE SUBMISSION OF BIDS, AND THE ARCHITECT OR ENGINEER SHALL MAKE THE NECESSARY CORRECTION OR EXPLANATION IN A WRITTEN FORMAL RESPONSE. OTHERWISE, NO EXTRA CHARGE WILL BE ALLOWED FOR THE WORK OR MATERIAL WHICH THE ARCHITECT OR ENGINEER MAY REQUIRE, PROVIDED THAT IT COMES WITHIN A REASONABLE INTERPRETATION OF THE DRAWINGS, SPECIFICATIONS, AND OVERALL INTENT OF THE CONTRACT DOCUMENTS.
6. THE PLANS AND SPECIFICATIONS ARE INTENDED AS A GENERAL DESCRIPTION OF THE WORK TO BE PERFORMED. ALL ITEMS NOT SPECIFICALLY MENTIONED OR SHOWN, BUT NECESSARY FOR THE COMPLETION OF THE INSTALLATION, SHALL BE FURNISHED AND INSTALLED AS PART OF THIS CONTRACT, BY THE SUB-CONTRACTOR. THIS SUB-CONTRACTOR SHALL THOROUGHLY ACQUAINT THEMSELF WITH THE MECHANICAL, ARCHITECTURAL, PLUMBING, STRUCTURAL, AND ELECTRICAL PLANS PRIOR TO SUBMITTING THEIR FINAL BID. NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO THE CONTRACTOR'S FAILURE TO FAMILIARIZE THEMSELF WITH THE PLANS AND HAVE ALL ITEMS OF WORK CLEARLY UNDERSTOOD AND ITEMIZED IN THEIR BID PROPOSAL.
7. PROVIDE LABOR, MATERIALS, TOOLS, EQUIPMENT, AND SERVICES FOR ELECTRICAL WORK INDICATED ON DRAWINGS.
8. WHERE CONDUIT IS REQUIRED BELOW GRADE, IT SHALL BE SCHEDULE 40 PVC. PROVIDE NYLON PULL CORDS IN ALL EMPTY CONDUITS. SIZE CONDUIT PER N.E.C. FOR ENCLOSED WIRING.
9. WHERE CONDUIT IS REQUIRED WITHIN THE BUILDING, IT SHALL BE:
   A. 9.1. WHERE EXPOSED TO PHYSICAL DAMAGE, RIGID OR INTERMEDIATE METAL
   B. 9.2. WHERE CONCEALED IN STRUCTURE OR CONCEALED BY FINISHES, EMT SHALL BE UTILIZED EXCEPT WHERE RIGID NONMETALLIC CONDUIT IS PERMITTED BY LOCAL AUTHORITY.
   C. 9.3. MC CABLE WITH PARTITIONS. MC CABLE MAY NOT BE USED FOR ANY HOMERUN.FITTINGS SHALL BE APPROVED AND U.L. LISTED FOR THE RACEWAY UTILIZED.
10. ALL CONDUCTORS SHALL BE COPPER (#12 MIN.). THHN/THWN INSULATION UNO. COMPLY WITH ALL N.E.C. ARTICLES. ALL CONDUCTORS SHALL BE NEW, FREE FROM KINKS AND OTHER DEFECTS AFTER INSTALLATION HAS BEEN MADE.
11. WHERE NEW CONDUCTORS AND/OR CONDUIT SYSTEM ARE INSTALLED, LENGTH AND ROUTING OF CONDUCTORS AND/OR CONDUIT SYSTEMS SHALL BE DETERMINED IN THE FIELD BY THE ELECTRICAL CONTRACTOR.
12. PROVIDE ALL ADDITIONAL AUXILIARY EQUIPMENT SUCH AS CONDUIT SUPPORT DEVICES, BOXES, CLAMPS, ETC., NOT SPECIFICALLY SHOWN ON THESE DRAWINGS, BUT NECESSARY FOR A COMPLETE INSTALLATION.
13. ALL PLATE FINISHES SHALL BE AS DESIGNATED BY THE ARCHITECT.
14. PROVIDE COMMERCIAL GRADE 20 AMP, 2 POLE, 3 WIRE, GROUNDING TYPE DEVICES WITH BACK AND SIDE WIRING CAPABILITY, SUITABLE FOR SPLIT CIRCUIT OPERATION.
15. GROUND FAULT INTERRUPTER: PROVIDE "SPECIFICATION GRADE" DUPLEX RECEPTACLES, GROUND FAULT CIRCUIT INTERRUPTERS (GFI), FEED-THRU TYPE, CAPABLE OF PROTECTING CONNECTED DOWNSTREAM RECEPTACLES ON SINGLE CIRCUIT, GROUNDING TYPE UL RATED CLASS A, 20 AMPERES RATING, 120 VOLTS, WITH SOLID STATE GROUND FAULT SENSING AND SIGNALING, 5 MILLIAMPERES GROUND FAULT TRIP LEVEL, AND EQUIP WITH LOCAL TEST/RESET BUTTONS.
16. PROVIDE SILENT TYPE STANDARD GRADE 20 AMP, 120V FOR ALL SINGLE POLE, DOUBLE POLE, THREE-WAY AND FOUR-WAY SWITCHES.
17. LUMINAIRE SCHEDULE SHOWS FIXTURE TYPES. DETERMINE MODIFICATIONS REQUIRED TO MAKE FIXTURES SUITABLE FOR CEILINGS AS INSTALLED, AND FURNISH FIXTURES ADAPTED TO THE TYPE OF CEILING USED. FIXTURES SHALL BE U.L. APPROVED. THIS CONTRACTOR SHALL PROTECT THE FIXTURES AND LAMPS AND SHALL REPLACE ANY BROKEN PARTS. ALL LENSES AND LOUVERS IN ANY AREA SHALL BE CLEANED AFTER ALL TRADES HAVE COMPLETED THEIR WORK IN THAT AREA. PROTECT EACH FIXTURE WITH CLEAN, CLEAR PLASTIC UNTIL FINAL INSPECTION. PROVIDE NEW LAMPS FOR ALL LIGHTING FIXTURES.
18. DRIVERS FOR LED FIXTURES SHALL BE U.L. CLASS P, HIGH POWER FACTOR, RAPID START TYPE WITH CBM APPROVAL WHERE APPLICABLE. DRIVERS SHALL BE "A" SOUND RATING EXCEPT WHERE THIS RATING IS NOT AVAILABLE IN WHICH CASE THE RATING SHALL BE THE BEST AVAILABLE. ALL LED DRIVERS SHALL BE ELECTRONIC, ENERGY SAVING TYPE.
19. DISCONNECTS SHALL BE HEAVY DUTY SAFETY SWITCHES WITH 100,000A SHORT CIRCUIT RATING, AND SHALL BE LISTED IN ACCORDANCE WITH U.L. 98. THE COVER SHALL BE INTERLOCKED SO THAT THE DOOR CANNOT BE OPENED WITH THE HANDLE IN THE "ON" POSITION, EXCEPT BY THE INTENTIONAL OPERATION OF A CONCEALED RELEASE (DEFEATER) MECHANISM. PROVIDE FUSIBLE SWITCH FOR A/C UNITS AS PER U.L. LISTING AND LOCAL CODE REQUIREMENTS. PROVIDE DUAL ELEMENT, TIME DELAY FUSES IN ALL FUSIBLE SWITCHES. A SEPARATE GROUNDING CONDUCTOR, SIZED IN ACCORDANCE WITH N.E.C. ARTICLE 250-122 SHALL BE PROVIDED IN THE CONDUIT WITH THE CIRCUIT CONDUCTORS FOR ALL LIGHTING, POWER AND FEEDER CIRCUITS.
20. ALL ELECTRICAL EQUIPMENT ENCLOSURES AND CONDUCTOR ENCLOSURES SHALL BE GROUNDED.
21. PROVIDE PROTECTIVE COVERING OVER PANELS AND EQUIPMENT DURING CONSTRUCTION.
22. THE CONTRACTOR SHALL INSTALL THEIR WORK TO JOB CONDITIONS AND MAKE SUCH CHANGES AS REQUIRED AND PERMITTED BY THE ARCHITECT, SUCH AS MOVING THEIR WORK TO CLEAR BEAMS, JOISTS, AND ADJUSTING OTHER APPARATUS TO AVOID INTERFERENCES WITH WINDOWS AND OPENINGS; OR RAISING OR LOWERING THEIR WORK TO PERMIT THE PASSING OF DUCTWORK OR THE WORK OF OTHER TRADES; ALL AS REQUIRED OR AS JOB CONDITIONS DICTATE, WITHOUT ANY ADDITIONAL COSTS TO THE OWNER OR THE CONTRACT PRICE.
23. EXAMINE AREAS AND CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED AND PRODUCTS ARE TO BE INSTALLED AND NOTIFY ARCHITECT IN WRITING OF CONDITIONS DETRIMENTAL TO PROPER AND TIMELY COMPLETION OF THE WORK. DO NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN A MANNER ACCEPTABLE TO THE INSTALLER.
24. DO NOT ALLOW OR CAUSE ANY OF THE WORK OF THIS DIVISION, OR CAUSE OTHER DIVISIONS OF WORK TO BE COVERED UP, OR ENCLOSED, UNTIL IT HAS BEEN INSPECTED, TESTED, AND APPROVED BY THE ARCHITECT AND BY ALL OTHER AUTHORITIES HAVING JURISDICTION.
25. PROVIDE GROUND AND CONTINUITY TESTING ON ALL ELECTRICAL CIRCUIT WIRING PRIOR TO RECONNECTION/REINSTALLATION.
26. ALL SWITCHES, OUTLETS, COVER PLATES, SIGNS, LIGHTING FIXTURES, AND ANY AND ALL OTHER ELECTRICAL EQUIPMENT PROVIDED SHALL BE THOROUGHLY CLEANED OF ALL DIRT, OIL, CONCRETE, ETC. ANY DENTS, SCRATCHES OR OTHER VISIBLE BLEMISHES SHALL BE CORRECTED AND THE APPEARANCE AND CORROSION RESISTANCE OF THE EQUIPMENT MADE "LIKE NEW", TO THE SATISFACTION OF THE ARCHITECT/ENGINEER.
27. PERFORM ALL ADJUSTMENTS NECESSARY TO ENSURE PROPER SYSTEM OPERATION IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.
28. BUILDING IS RETURN AIR PLENUM. PROVIDE PLENUM RATED CONDUITS, BOXES, RACEWAYS, AND MATERIALS...ETC

APPLICABLE CODES:

1. FLORIDA BUILDING CODE 2023 8TH EDITION.
2. FLORIDA BUILDING CODE 2023 - ENERGY CONSERVATION 8TH EDITION.
3. FLORIDA FIRE PREVENTION CODE 2023 8TH EDITION.
4. NFPA 37 STANDARD FOR THE INSTALLATION AND USE OF STATIONARY COMBUSTION ENGINES - 2021 EDITION.
5. NFPA 70 NATIONAL ELECTRICAL CODE - 2020 EDITION.
6. NFPA 72 NATIONAL FIRE ALARM & SIGNALING CODE - 2019 EDITION.
7. NFPA 101 LIFE SAFETY CODE - 2021 EDITION.
8. NFPA 110 STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS - 2019 EDITION.
9. NFPA 780 STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS - 2020 EDITION.
10. NFPA 1221 STANDARD FOR THE INSTALLATION OF EMERGENCY SERVICES COMUNICATION SYSTEMS - 2019 EDITION.

VOLTAGE DROP:

THIS PROJECT IS DESIGNED FOR A MAXIMUM TOTAL VOLTAGE DROP OF 5% AS PER 2023 FBC ENERGY CONSERVATION C405.5.3: THE FEEDERS AND BRANCH CIRCUIT CONDUCTORS HAVE BEEN SIZED FOR A MAXIMUM VOLTAGE DROP OF 5% AT DESIGN LOAD.

CLIENT

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REGISTRATION

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DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

CMTA
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PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
GENERAL NOTES - ELECTRICAL

SHEET NUMBER
E0.01

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/RBPD_MEPF_R24.rvt
DATE STAMP: 10/23/2025 4:51:50 PM

EXTERIOR LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	WATTS	TYPE	VOLTAGE	MOUNTING	NOTES
PT1	DECORATIVE POST TOP FIXTURE CONSTRUCTED FROM DIE CAST ALUMINUM WITH INTERNAL COOLING FINS, CORROSION RESISTANT HARDWARE, ELECTROSTATIC FINISH, SILICONE GASKET, AND 0-10V DIMMING DRIVER. TYPE 3 OPTICS. 4000K CCT. MH: 15'-0" AFF. BASIS OF DESIGN: NLS ORX-2-T3-16L-1-40K8-UNV-SPT238-*** OR APPROVED EQUAL.	51	LED	UNV	POLE	(1)(2)(8)
PT2	DECORATIVE POST TOP FIXTURE CONSTRUCTED FROM DIE CAST ALUMINUM WITH INTERNAL COOLING FINS, CORROSION RESISTANT HARDWARE, ELECTROSTATIC FINISH, SILICONE GASKET, AND 0-10V DIMMING DRIVER. TYPE 4 OPTICS. 4000K CCT. MH: 15'-0" AFF. BASIS OF DESIGN: NLS ORX-2-T4-16L-1-40K8-UNV-SPT238-*** OR APPROVED EQUAL.	51	LED	UNV	POLE	(1)(2)(8)
PT3	DECORATIVE POST TOP FIXTURE CONSTRUCTED FROM DIE CAST ALUMINUM WITH INTERNAL COOLING FINS, CORROSION RESISTANT HARDWARE, ELECTROSTATIC FINISH, SILICONE GASKET, AND 0-10V DIMMING DRIVER. TYPE 4 OPTICS. 4000K CCT. MH: 20'-0" AFF. BASIS OF DESIGN: NLS ORX-2-T4-32L-1-40K8-UNV-SPT238-*** OR APPROVED EQUAL.	102	LED	UNV	POLE	(1)(3)(8)
SA	SITE LIGHT FIXTURE CONSTRUCTED FROM DIE CAST ALUMINUM WITH INTERNAL COOLING FINS, CORROSION RESISTANT HARDWARE, ELECTROSTATIC FINISH, SILICONE GASKET, AND 0-10V DIMMING DRIVER. TYPE 4 FORWARD THROW OPTICS. 4000K CCT. MH: 1 HEAD - 25'-0" AFF. BASIS OF DESIGN: NLS NV-1-T4FTW-64L-1-40K8-UNV-DPS3-*** OR APPROVED EQUAL.	207	LED	UNV	POLE	(1)(4)(8)
SB1	SITE LIGHT FIXTURE CONSTRUCTED FROM DIE CAST ALUMINUM WITH INTERNAL COOLING FINS, CORROSION RESISTANT HARDWARE, ELECTROSTATIC FINISH, SILICONE GASKET, AND 0-10V DIMMING DRIVER. TYPE 5 WIDE OPTICS. 4000K CCT. MH: 1 HEAD - 25'-0" AFF. BASIS OF DESIGN: NLS NV-1-T5W-64L-1-40K8-UNV-DPS3-*** OR APPROVED EQUAL.	207	LED	UNV	POLE	(1)(4)(8)
SB2	SITE LIGHT FIXTURE CONSTRUCTED FROM DIE CAST ALUMINUM WITH INTERNAL COOLING FINS, CORROSION RESISTANT HARDWARE, ELECTROSTATIC FINISH, SILICONE GASKET, AND 0-10V DIMMING DRIVER. TYPE 5 WIDE OPTICS. 4000K CCT. MH: 2 HEADS B2B - 25'-0" AFF. BASIS OF DESIGN: NLS (2) NV-1-T5W-64L-1-40K8-UNV-DPS3-*** OR APPROVED EQUAL.	414	LED	UNV	POLE	(1)(4)(8)
SC	SITE LIGHT FIXTURE CONSTRUCTED FROM DIE CAST ALUMINUM WITH INTERNAL COOLING FINS, CORROSION RESISTANT HARDWARE, ELECTROSTATIC FINISH, SILICONE GASKET, AND 0-10V DIMMING DRIVER. TYPE 4 OPTICS. 4000K CCT. PROVIDE HOUSE SIDE SHIELD. MH: 1 HEAD - 25'-0" AFF. BASIS OF DESIGN: NLS NV-1-T4-64L-1-40K8-UNV-DPS3-***-HSS OR APPROVED EQUAL.	207	LED	UNV	POLE	(1)(4)(8)
SR	SITE LIGHT FIXTURE CONSTRUCTED FROM DIE CAST ALUMINUM WITH INTERNAL COOLING FINS, CORROSION RESISTANT HARDWARE, ELECTROSTATIC FINISH, SILICONE GASKET, AND 0-10V DIMMING DRIVER. RIGHT CORNER OPTICS. 4000K CCT. MH: 1 HEAD - 25'-0" AFF. BASIS OF DESIGN: NLS NV-1-CDR-64L-1-40K8-UNV-DPS3-*** OR APPROVED EQUAL.	207	LED	UNV	POLE	(1)(4)(8)
W1	TRAPEZOIDAL WALL SCONCE/WALLPACK CONSTRUCTED FROM SINGLE PIECE DIE CAST ALUMINUM WITH WITH INTEGRAL HEAT SINKS, GASKETED DOOR FRAME, ZINC THERMOSET POWDER COAT FINISH, ACRYLIC LENS, 0-10V DIMMING DRIVER AND FORWARD THROW OPTICS. 4000K CCT. BASIS OF DESIGN: LITHONIA WDGE1 LED P2 40K 80CRI VF MVOLT D**** OR APPROVED EQUAL.	15	LED	UNV	SURFACE	(1)
W2	TRAPEZOIDAL WALL SCONCE/WALLPACK CONSTRUCTED FROM SINGLE PIECE DIE CAST ALUMINUM WITH WITH INTEGRAL HEAT SINKS, GASKETED DOOR FRAME, ZINC THERMOSET POWDER COAT FINISH, ACRYLIC LENS, 0-10V DIMMING DRIVER AND TYPE 4 OPTICS. 4000K CCT. BASIS OF DESIGN: WDGE2 LED P2 40K 80CRI T4M MVOLT D**** OR APPROVED EQUAL.	19	LED	UNV	SURFACE	(1)
W3	TRAPEZOIDAL WALL SCONCE/WALLPACK CONSTRUCTED FROM SINGLE PIECE DIE CAST ALUMINUM WITH WITH INTEGRAL HEAT SINKS, GASKETED DOOR FRAME, ZINC THERMOSET POWDER COAT FINISH, ACRYLIC LENS, 0-10V DIMMING DRIVER, WIDE OPTICS AND INTEGRAL EM BATTERY. 4000K CCT. 9'-0" AFF. BASIS OF DESIGN: LITHONIA WDGE1 LED P2 40K 80CRI VW MVOLT E4WH DDBXD OR APPROVED EQUAL.	15	LED	UNV	SURFACE	(1)
ST	IN GRADE UPLIGHT CONSTRUCTED FROM STAINLESS STEEL WITH INJECTION MOLDED JUNCTION BOX., STAINLESS STEEL BRUSHED DOOR, DOUBLE LENSED AIM LOCK MODULE WITH 15 DEGREE AIM, AND FACORY SEALED GASKETS. 4000K CCT. BASIS OF DESIGN: HYDREL M9410C A LED P2 40K MVOLT NSP FLC10 12B **	20	LED	UNV	IN-GRADE	(7)
SU	IN GRADE UPLIGHT CONSTRUCTED FROM STAINLESS STEEL WITH INJECTION MOLDED JUNCTION BOX., STAINLESS STEEL BRUSHED DOOR, DOUBLE LENSED AIM LOCK MODULE WITH 15 DEGREE AIM, AND FACORY SEALED GASKETS. 4000K CCT. BASIS OF DESIGN: HYDREL M9410C A LED P2 40K MVOLT NSP FLC10 12B **	20	LED	UNV	IN-GRADE	(7)

NOTES:
1. FINISH BY ARCHITECT/ID.
2. FIXTURE MOUNTED ON MULTI CHAMBERED 15' POLE: HAPCO HOMEWOOD SMART TRAC POLE. PROVIDE SIGNED AND SEALED DRAWINGS FROM STRUCTURAL ENGINEER THAT ASSEMBLY MEETS WINDLOAD LOAD REQUIREMENTS. FINISH BY ARCHITECT.
3. FIXTURE MOUNTED ON 20' POLE: HAPCO HOMEWOOD SMART TRAC POLE. PROVIDE SIGNED AND SEALED DRAWINGS FROM STRUCTURAL ENGINEER THAT ASSEMBLY MEETS WINDLOAD LOAD REQUIREMENTS. FINISH BY ARCHITECT.
4. FIXTURE MOUNTED ON 25' POLE: HAPCO HOMEWOOD SMART TRAC POLE. PROVIDE SIGNED AND SEALED DRAWINGS FROM STRUCTURAL ENGINEER THAT ASSEMBLY MEETS WINDLOAD LOAD REQUIREMENTS. FINISH BY ARCHITECT.
5. REFER TO SHEET E0.10 FOR POLES WITH DECORATIVE POLE BASES.
6. REFER TO SHEET E0.20 FOR POLES WITH RECEPTACLE INSTALLED AT THE TOP FOR SEASONAL DECORATIONS.
7. COORDINATE FINAL MODEL NUMBER QUANTITIES AND LOCATIONS WITH ARCHITECT/FIXTURE REP WITH RESPECTO TO FINAL MONUMENTS SIZE AND FLAG POLE HEIGHT PRIOR TO RELEASE.
8. REFER TO POLE DETAIL ON SHEET E6.04 FOR DESIGN REQUIREMENTS.

INTERIOR LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	WATTS	TYPE	VOLTAGE	MOUNTING	NOTES
M1	LINEAR T-BAR FIXTURE CONSTRUCTED FROM ANODIZED ALUMINUM WITH STEEL JUNCTION BOX AND MOUNTING CLIPS, BLOCK FROSTED LENS AND 0-10V DIMMING DRIVER. 4000K CCT. BASIS OF DESIGN: JL TECH TBLX-MIN-MO-4-**-B2-*-*-UNV OR APPROVED EQUAL.	21	LED	UNV	T-BAR GRID	(1)(3)
M2	LOW PROFILE SHALLOW LINEAR CONSTRUCTED FROM EXTRUDED ALUMINUM WITH DIE-CAST ZINC, PLASTIC REFLECTORS, ACRYLIC LENS, MATTE POWDER COAT FINISH AND 0-10V DIMMING DRIVER. 4000K CCT. BASIS OF DESIGN: LUMENWERX SHLU1.5S-D-SLO-SW-80CRI-500LMF-40K-**FT**IN-UNV-RD1-1C-SLT.*-*FT-NA OR APPROVED EQUAL.	6/FT	LED	UNV	SURFACE	(1)(3)
M3	LOW PROFILE SHALLOW LINEAR CONSTRUCTED FROM EXTRUDED ALUMINUM WITH DIE-CAST ZINC, PLASTIC REFLECTORS, ACRYLIC LENS, MATTE POWDER COAT FINISH AND 0-10V DIMMING DRIVER. 4000K CCT. BASIS OF DESIGN: LUMENWERX SHLU1.5S-D-SLO-SW-80CRI-750LMF-40K-**FT**IN-UNV-RD1-1C-SLT.*-*FT-NA OR APPROVED EQUAL.	9/FT	LED	UNV	SURFACE	(1)(3)
N1	LINEAR ACOUSTIC FIXTURE CONSTRUCTED FROM EXTRUDED ALUMINUM WITH COLD ROLLED STEEL BRACKETS, DIE CAST ALUMINUM JOINERS, AIR CRAFT CABLE SUSPNSION, 0-10V DIMMING DRIVER AND POLYESTER FINISH. MH: 7'-0" AFF. BASIS OF DESIGN: LUMENWERX SQUACOP-D-12IN-HLO-NA-NA-SW-80CRI-500LMF-NA-40K-**FT**IN-UNV-D1-1C-NA-ACS-* OR APPROVED EQUAL.	5/FT	LED	UNV	SUSPENDED	(1)(3)
N2	SAME AS FIXTURE TYPE 'N1' BUT LINEAR BLANK CONTINUOUS RUN. MH: 7'-6" AFF. BASIS OF DESIGN: LUMENWERX SQUACOBP-12IN-*FT*IN-UNV-ACS-* OR APPROVED EQUAL.	N/A	N/A	N/A	SUSPENDED	(1)(4)
P1	3'X6' DIRECT/INDIRECTCONTINUOUS RECTANGULAR PENDANT CONSTRUCTED FROM RECYCLED EXTRUDED ALUMINUM WITH ELECTROSTATIC POWDER COAT FINISH AND 0-10V DIMMING DRIVER. 4000K CCT. MH: 7' AFF. BASIS OF DESIGN: ALIGHT RLY2-HL-RC-W3'-L4'-ILS-DLH-40-80CRI-U-BW-S-*-2-D-C* OR APPROVED EQUAL.	324	LED	UNV	SUSPENDED	(1)
P2	DECORATIVE PENDANT CONSTRUCTED FROM 3-FORM VARIA ECO RESIN WITH WHITE OPAL DIFFUSER, ADJUSTABLE STAINLESS STEEL HANGING CABLES, AND 0-10V DIMMING DRIVER. 4000K CCT. MH: 7'-6" AFF. BASIS OF DESIGN: LIGHT ART FIVX-PIV-LIN-PL03-**-840CK-STD-*PC-* OR APPROVED EQUAL.	72	LED	UNV	SUSPENDED	(1)
R1	3" CYLINDER CONSTRUCTED FROM EXTRUDED ALUMINUM WITH MACHINED ALUMINUM CANOPY, POWDER COAT FINISH AND 0-10V DIMMING DRIVER. 3000K CCT. BASIS OF DESIGN: ALPHABET BETA-3R-SW-20LM-30K-80-60D-DL-*-*-P-UNV-DIM10 OR APPROVED EQUAL.	17	LED	UNV	PENDANT	(1)
U	LOW PROFILE UNDERCABINET LIGHT CONSTRUCTED FROM ALUMINUM WITH ASYMETRICAL 120 DEGREE DISTRIBUTION AND 0-10V LINE VOLTAGE DIMMING DRIVER. 4000K CCT. BASIS OF DESIGN: FEELUX TUN-40K-SF-STD-*-**-HW-RSW-120-240 OR APPROVED EQUAL.	8/FT	LED	120	SURFACE	(1)
X	EDGE LIT EXIT SIGN CONSTRUCTED FROM DIE CAST ALUMINUM WITH SNAP IN LENS PANEL, UNIVERSAL FIELD, ADJUSTABLE CHEVERONS, HINGED RETAINING SPRINGS, AND UL-924 LISTED. BASIS OF DESIGN: EVENLITE SOVII-EM-*-**-*-RC-** OR APPROVED EQUAL.	3	LED	UNV	SURFACE	(1)

INTERIOR LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	WATTS	TYPE	VOLTAGE	MOUNTING	NOTES
A1	2X2 INDIRECT ACOUSTICAL TROFFER CONSTRUCTED FROM ALUMINUM WITH FELT FRAME, INTERNAL GLARE RESISTANT LENS, AND WITH 0-10V DIMMING DRIVER WITH 1% DIMMING CAPABILITY. 4000K CCT. BASIS OF DESIGN: ALIGHT LEAN-1-LVH-40K-80-U OR APPROVED EQUAL.	40	LED	UNV	RECESSED	-
A2	2X2 ANDOLIC INDIRECT TROFFER CONSTRUCTED FROM 22 GAUGE STEEL WITH QUICK WIRE ACCESS PLATES, PRECISIONS EXTRUDED CLEAR ACRYLIC LENSES, AND WITH 0-10V DIMMING DRIVER WITH 3% DIMMING. 4000K CCT. BASIS OF DESIGN: FLUXWERX NB1-22-B-40-F2-M OR APPROVED EQUAL.	29	LED	UNV	RECESSED	-
A3	2X2 FLAT PANNEL CONSTRUCTED FROM METAL WITH SWITCHABLE LUMEN OUTPUT, SWITCHABLE CCT, SATIN WHITE LENS, AND WITH 0-10V DIMMING DRIVER. IP65 RATED, WET LOCATION LISTED, IK10 RATED. 4000K CCT. BASIS OF DESIGN: LITHONIA CPX 2X2 ALO7 (MID) SWW7(40K) SWL MVOLT OR APPROVED EQUAL.	26	LED	UNV	RECESSED	-
B1	INDIRECT LINEAR FIXTURE CONSTRUCTED FROM ANODIZED EXTRUDED ALUMINUM WITH MACHINED ALUMINUM ENDCAPS, ANIDOLIC OPTICS WITH PRECISION MOLDED CLEAR ACRYLIC LENS, AND WITH 0-10V DIMMING DRIVER WITH 3% DIMMING. 4000K CCT. MH: 9' AFF. BASIS OF DESIGN: FLUXWERX VU1-B-B-C-40-*-08-S-F2-M-06 OR APPROVED EQUAL.	58	LED	UNV	SUSPENDED	(1)(3)
B2	INDIRECT LINEAR FIXTURE CONSTRUCTED FROM ANODIZED EXTRUDED ALUMINUM WITH MACHINED ALUMINUM ENDCAPS, ANIDOLIC OPTICS WITH PRECISION MOLDED CLEAR ACRYLIC LENS, AND WITH 0-10V DIMMING DRIVER WITH 3% DIMMING. 4000K CCT. MH: 9' AFF. BASIS OF DESIGN: FLUXWERX VU1-B-B-D-40-*-42-S-F2-M-06 OR APPROVED EQUAL.	58	LED	UNV	SUSPENDED	(1)(3)
C1	1X1 CORRECTIONAL FACILITY FIXTURE CONSTRUCTED FROM 12 GAUGE COLD ROLLED STEEL WITH SEAMLESS WELDED EDGES WITH INTEGRAL MOUNTING BOSSES AND HEAVY DUTY MOUNTING HARDWARE, CONCEALED HINGES, 3/4" LENS, AND 0-10V DIMMING DRIVER. 4000K CCT. BASIS OF DESIGN: LUMINAIRE SMQ Q11 H12CRSP MIN10 25W 40K MVOLT ALS 1ES OR APPROVED EQUAL.	25	LED	UNV	SURFACE	-
C2	LINEAR WRAP CORRECTIONAL FACILITY FIXTURE CONSTRUCTED FROM 12 GAUGE COLD ROLLED STEEL WITH SEAMLESS WELDED EDGES WITH INTEGRAL MOUNTING BOSSES AND HEAVY DUTY MOUNTING HARDWARE, CONCEALED HINGES, 3/4" LENS, AND 0-10V DIMMING DRIVER. 4000K CCT. BASIS OF DESIGN: LUMINAIRE WMP W12 H12CRSP MIN10 50W 40K MVOLT ALS 1ES OR APPROVED EQUAL.	50	LED	UNV	SURFACE	-
D1	2" ROUND DOWNLIGHT CONSTRUCTED FROM 20 GAUGE POWDER COATED STEEL WITH OPEN FRAME, 18 GAUGE GALVANIZED STEEL JUNCTION BOX, INTERGRAL CLIPPED BAFFLE AND 0-10V DIMMING DRIVER. 4000K CCT. BASIS OF DESIGN: LUMENWERX AE2RR-TRM-SW-OF-ASB-UNV-10W-D1-NA/AE2RR-SW-35DEG-2STP-80CRI-40K-LSDL-TRM-FTMW-FTMW-NA OR APPROVED EQUAL.	10	LED	UNV	RECESSED	(2)
D2	2" ROUND DOWNLIGHT CONSTRUCTED FROM 20 GAUGE POWDER COATED STEEL WITH OPEN FRAME, 18 GAUGE GALVANIZED STEEL JUNCTION BOX, INTERGRAL CLIPPED BAFFLE AND 0-10V DIMMING DRIVER. 4000K CCT. BASIS OF DESIGN: LUMENWERX AE2RR-TRM-SW-OF-ASB-UNV-10W-D1-NA/AE2RR-SW-35DEG-2STP-80CRI-40K-LSDL-TRM-FTMW-FTMW-NA OR APPROVED EQUAL.	10	LED	UNV	RECESSED	(2)
D3	2" ROUND DOWNLIGHT CONSTRUCTED FROM 20 GAUGE POWDER COATED STEEL WITH OPEN FRAME, 18 GAUGE GALVANIZED STEEL JUNCTION BOX, INTERGRAL CLIPPED BAFFLE AND 0-10V DIMMING DRIVER. 4000K CCT. BASIS OF DESIGN: LUMENWERX AE2RR-TRM-SW-OF-ASB-UNV-10W-D1-NA/AE2RR-SW-35DEG-2STP-80CRI-40K-LSDL-TRM-FTMW-FTMW-NA OR APPROVED EQUAL.	10	LED	UNV	RECESSED	(2)
F	4' STRIP FIXTURE CONSTRUCTED FROM COLD ROLLED STEEL WITH HIGH GLOSS BAKED WHITE POLYESTER FINISH, ROUND DIFFUSED LENS, 0-10V DIMMING DRIVER AND AIRCRAFT CABLE WITH Y HANGERS. 4000K CCT. MH: 8'-6" AFF. BASIS OF DESIGN: LITHONIA CLXL L48 4000LM SEF RFL MVOLT GZ10 40K 80CRI WHZACVMM100 OR APPROVED EQUAL.	26	LED	UNV	SUSPENDED	-
G1	LOW BAY PARKING FIXTURE CONSTRUCTED FROM TWO PIECE DIE CAST ALUMINUM WITH INTEGRAL HEAT SINKS, POST PAINTED FINISH AND PRECISION MOLDED ACRYLIC LENS. DLC LISTED. 4000K CCT. MH: 8' AFF. BASIS OF DESIGN: LITHONIA VCPG LED P1 40K T5W MVOLT	27	LED	UNV	PENDANT	-
GE	LINEAR WRAP FIXTURE CONSTRUCTED FROM CONSTRUCTED FROM MARINE GRADE ALUMINUM, POLYCARBONATE LENS WITH TAMPER RESISTANT FASTENERS, INTEGRAL OCCUPANCY SENSOR-DIM TO 50% WHEN NOT OCCUPIED, AND 0-10V DIMMING DRIVER. 4000K CCT. BASIS OF DESIGN: KENALL MLHA8-48-F-MW-PP-1-67L40K-DCC-DV-MLHA-TL50 OR APPROVED EQUAL.	75	LED	UNV	SURFACE	-
H1	4' STRIP FIXTURE CONSTRUCTED FROM COLD ROLLED STEEL WITH HIGH GLOSS BAKED WHITE POLYESTER FINISH, FLAT DIFFUSED LENS, 0-10V DIMMING DRIVER AND AIRCRAFT CABLE WITH Y HANGERS. 4000K CCT. MH: 8'-0" AFF. BASIS OF DESIGN: LITHONIA CLXL L48 5000LM SEF FDL MVOLT GZ10 40K 80CRI WHZACVMM100 OR APPROVED EQUAL.	32	LED	UNV	SUSPENDED	-
H2	4' STRIP FIXTURE CONSTRUCTED FROM COLD ROLLED STEEL WITH HIGH GLOSS BAKED WHITE POLYESTER FINISH, FLAT DIFFUSED LENS, 0-10V DIMMING DRIVER, 4000K CCT AND INTERGRAL EMERGENCY BATTERY BACK UP. MH: 9' AFF. BASIS OF DESIGN: LITHONIA CLXL L48 4000LM SEF FDL MVOLT GZ10 40K 80CRI E10W WHZACVMM100 OR APPROVED EQUAL.	26	LED	UNV	SUSPENDED	-
K2	42" CIRCULAR DISK LUMINAIRE CONSTRUCTED FROM SPUN ALUMINUM WITH UV STABILIZED WHITE ACRYLIC DIFFUSER. 0-10V DIMMING DRIVER. 4000K CTT. MH: 7' AFF. BASIS OF DESIGN: BROWNLEE 2680-42-**-S93-**-CC3-**C-40K OR APPROVED EQUAL.	90	LED	UNV	PENDANT	(1)
K3	30" CIRCULAR DISK LUMINAIRE CONSTRUCTED FROM SPUN ALUMINUM WITH UV STABILIZED WHITE ACRYLIC DIFFUSER. 0-10V DIMMING DRIVER. 4000K CTT. MH: 7' AFF. BASIS OF DESIGN: BROWNLEE 2680-30-**-S93-**-CC3-**C-40K OR APPROVED EQUAL.	46	LED	UNV	PENDANT	(1)
K4	20" CIRCULAR DISK LUMINAIRE CONSTRUCTED FROM SPUN ALUMINUM WITH UV STABILIZED WHITE ACRYLIC DIFFUSER. 0-10V DIMMING DRIVER. 4000K CTT. MH: 7' AFF. BASIS OF DESIGN: BROWNLEE 2080-20-**-R49-**40K OR APPROVED EQUAL.	46	LED	UNV	SURFACE	(1)
K5	42" CIRCULAR DISK LUMINAIRE CONSTRUCTED FROM SPUN ALUMINUM WITH UV STABILIZED WHITE ACRYLIC DIFFUSER. 0-10V DIMMING DRIVER. 4000K CTT. MH: 7' AFF. BASIS OF DESIGN: BROWNLEE 2080-42-**-S183-**40K OR APPROVED EQUAL.	183	LED	UNV	SURFACE	(1)
L2	1-1/2" LINEAR DIRECT/INDIRECT PENDANT CONSTRUCTED FROM EXTRUDED ALUMINUM WITH, DIE FORMED COLD ROLLED STEEL REFLECTORS, DIE-CAST ALUMINUM END CAPS, ACRYLIC LENS, AND 0-10V DIMMING DRIVER. 4000K CCT. MH: 7'-6" AFF. BASIS OF DESIGN: LUMENWERX V1A1.5P-DI-HLO-FH-WIO2-SW-80CRI-500LMF-350LMF-40K-6FT0IN-UNV-D1-1C-NA-ACS-* OR APPROVED EQUAL.	10/FT	LED	UNV	SUSPENDED	(1)
L3	1-1/2" LINEAR DIRECT/INDIRECT PENDANT CONSTRUCTED FROM EXTRUDED ALUMINUM WITH, DIE FORMED COLD ROLLED STEEL REFLECTORS, DIE-CAST ALUMINUM END CAPS, ACRYLIC LENS, AND 0-10V DIMMING DRIVER. 4000K CCT. MH: 10 AFF BASIS OF DESIGN: LUMENWERX V1A1.5P-DI-HLO-FH-WIO2-SW-80CRI-200LMF-350LMF-40K-**FT**IN-UNV-D1-1C-NA-ACS-* OR APPROVED EQUAL.	5/FT	LED	UNV	SUSPENDED	(1)
L4	1-1/2" LINEAR DIRECT PENDANT CONSTRUCTED FROM EXTRUDED ALUMINUM WITH, DIE FORMED COLD ROLLED STEEL REFLECTORS, DIE-CAST ALUMINUM END CAPS, ACRYLIC LENS, AND 0-10V DIMMING DRIVER. 4000K CCT. BASIS OF DESIGN: LUMENWERX V1A1.5P-D-HLO-FH-NA-SW-80CRI-500LMF-NA-40K-**FT**IN-UNV-D1-1C-NA-ACS-* OR APPROVED EQUAL.	7/FT	LED	UNV	SUSPENDED	(1)
L5	1-1/2" LINEAR DIRECT/INDIRECT PENDANT CONSTRUCTED FROM EXTRUDED ALUMINUM WITH, DIE FORMED COLD ROLLED STEEL REFLECTORS, DIE-CAST ALUMINUM END CAPS, ACRYLIC LENS, AND 0-10V DIMMING DRIVER. 4000K CCT. BASIS OF DESIGN: LUMENWERX V1A1.5P-DI-HLO-FH-WIO2-SW-80CRI-750LMF-500LMF-40K-**FT**IN-UNV-D1-1C-NA-ACS-* OR APPROVED EQUAL.	17/FT	LED	UNV	SUSPENDED	(1)

NOTES:
1. FINISH BY ARCHITECT/ID.
2. TRIM AND FLANGE SELECTION BY ARCHITECT/ID.
3. LENGTH PER PLAN. COORDINATE WITH ARCHITECTURAL RCP.
4. REFER TO ARCHITECTURAL RCP FOR LENGTH AND QUANTITIES TO BE ORDERED. COORDINATE REQUIREMENTS WITH ARCHID PRIOR TO PRODUCT RELEASE.

** NOT ALL FIXTURES SCHEDULED MAY BE USED.

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/RBPD_MEPF_R24.rvt
DATE STAMP: 10/23/2025 11:45:09 AM

CLIENT

CITY OF RIVIERA BEACH
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Riviera Beach, FL 33404

ARCHITECT OF RECORD

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CORE CONSTRUCTION
1641 Worthington Rd
West Palm Beach
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PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
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32750

REGISTRATION

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HARVARD CIR., SUITE 600
WEST PALM BEACH, FL 33409
FL. REG. NO.: PE63143

DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

CMTA
A Legence Company
4 Harvard Cir, Suite 600 | West Palm Beach, FL 33409
561.688.6075 | cmta.com

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

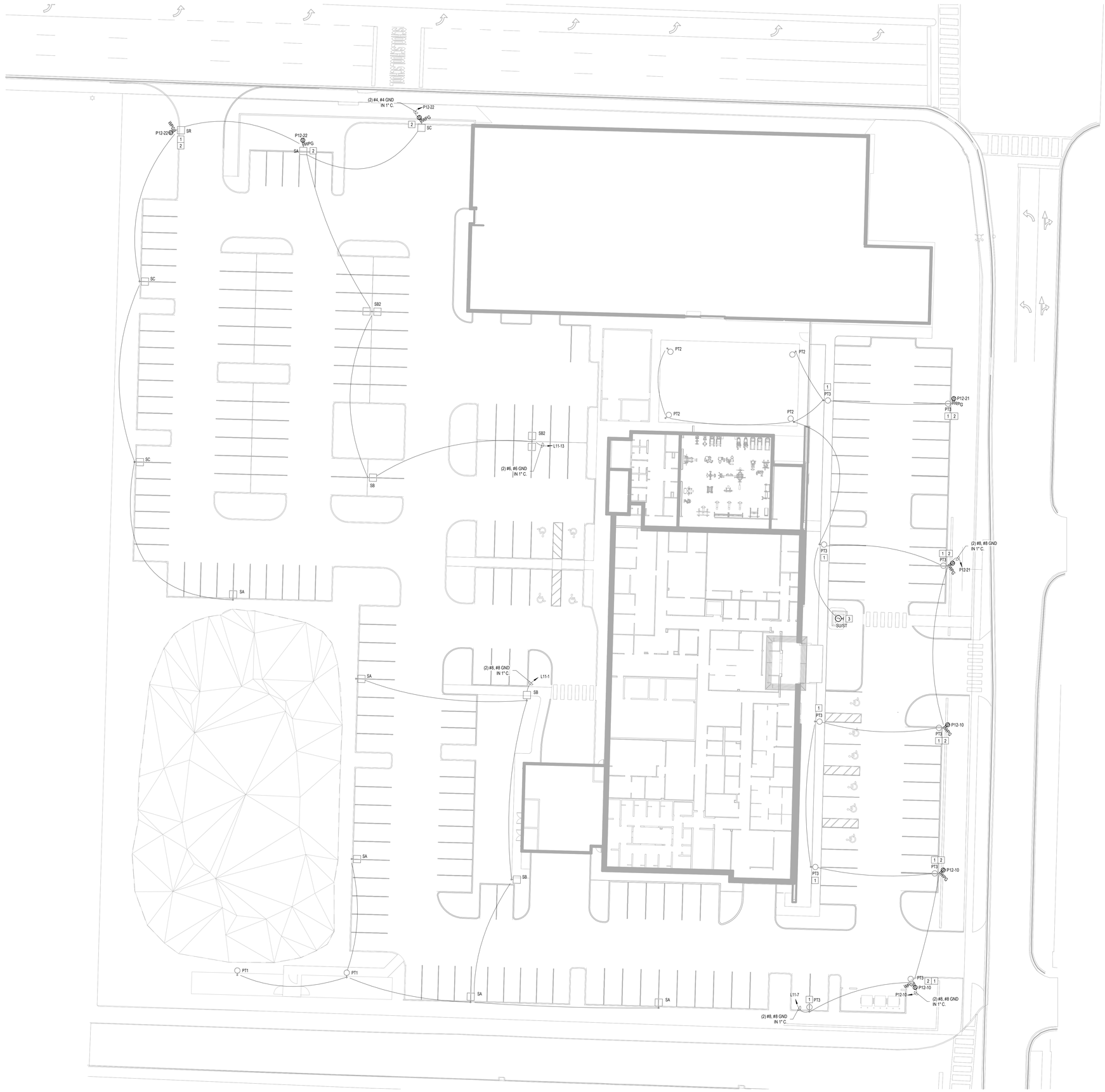
PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

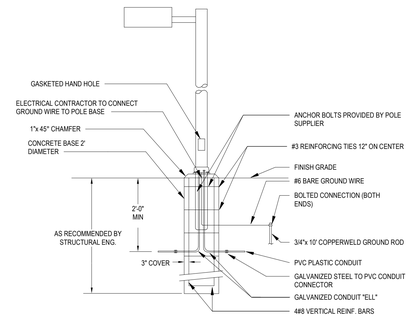
PROJECT NUMBER
1007657.00

SHEET TITLE
LUMINAIRE SCHEDULE - ELECTRICAL

SHEET NUMBER
E0.02



4 POLE BASE DETAIL
NTS



GENERAL SITE LIGHTING NOTES:

1. FIELD VERIFY EXISTING SITE CONDITIONS. EXISTING UNDERGROUND UTILITIES MUST BE LOCATED AND MARKED USING ALL AVAILABLE RESOURCES PRIOR TO COMMENCEMENT OF ANY UNDERGROUND SITE WORK.
2. COORDINATE ALL UNDERGROUND WORK WITH ALL OTHER TRADES AND ACTUAL FIELD CONDITIONS FOR PROPER CLEARANCES.
3. WHERE CONDUIT ROUTING IS SHOWN, THE CONDUITS ARE SHOWN FOR DIAGRAMMATIC PURPOSES AND ARE NOT NECESSARILY REPRESENTATIVE OF EXACT PLACEMENT.
4. CONTRACTOR SHALL FURNISH AND INSTALL MANHOLES OR HAND HOLE PULL BOXES IN ACCORDANCE WITH PALM BEACH COUNTY AND FP&L STANDARDS OR REQUIREMENTS.
5. ALL LIGHT POLE ASSEMBLIES SHALL SUSTAIN WINDLOAD CRITERIA IMPOSED BY PALM BEACH COUNTY, FLORIDA, WITHOUT EXCEPTION.
6. ANY MODIFICATION TO LOCATATION OF SITE LIGHT POLES OR USE OF SUBSTITUE FIXTURE MANUFACTURER SHALL REQUIRE RESUBMISSION OF PHOTOMETRICS FOR APPROVAL BY ENGINEER.
7. EXTERIOR SITE LIGHTING POLES ARE CONTROLLED BY VIA LIGHTING CONTROL PANELS.

KEYNOTES:

1. PROVIDE SITE LIGHTING POLE WITH DECORATIVE BASE. COORDINATE ADDITIONAL REQUIREMENTS WITH MANUFACTURER AND ARCHITECT PRIOR TO RELEASE OF POLE.
2. PROVIDE RECEPTACLE AT TOP OF POLE FOR SEASONAL DECORATIONS. COORDINATE ADDITIONAL OPTIONS AND ACCESSORIES WITH ARCHITECT AND END USER PRIOR TO POLE RELEASE.
3. COORDINATE FINAL QUANTITY OF FIXTURES AND REQUIREMENTS WITH FINAL MONUMENT AND FLAG POLE DESIGN. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH ARCHITECTAND FIXTURE REP PRIOR TO START OF ANY UNDERGROUND WORK.

SITE PLAN - LIGHTING 3/64" = 1'-0" 1

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D	9/18/2025	90% Construction Documents
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CONSULTANT

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PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
SITE PLAN - LIGHTING

SHEET NUMBER
E0.10

SITE

	PT1	OUTDOOR POST TOP AREA LUMINAIRE ON 15-FT ROUND STRAIGHT ALUM POLE	NLS LIGHTING	ORX-2-T3-16L-1-40K8-UNV-SPT238-***	INTEGRAL 51W LED	120V / 277V	0-10V		SELECT FINISH
	PT2	OUTDOOR POST TOP AREA LUMINAIRE ON 15-FT ROUND STRAIGHT ALUM POLE	NLS LIGHTING	ORX-2-T4-16L-1-40K8-UNV-SPT238-***	INTEGRAL 51W LED	120V / 277V	0-10V		SELECT FINISH
	PT3	OUTDOOR POST TOP AREA LUMINAIRE ON 20-FT ROUND STRAIGHT ALUM POLE	NLS LIGHTING	ORX-2-T4-32L-1-40K8-UNV-SPT238-***	INTEGRAL 102W LED	120V / 277V	0-10V		SELECT FINISH
	SA	SINGLE OUTDOOR AREA LUMINAIRE ARM MOUNTED TO 25-FT ROUND TAPERED ALUM POLE	NLS LIGHTING	NV-1-T4FTW-64L-1-40K8-UNV-DPS3-***	INTEGRAL 207W LED	120V / 277V	0-10V		SELECT FINISH
	SB1	SINGLE OUTDOOR AREA LUMINAIRE ARM MOUNTED TO 25-FT ROUND TAPERED ALUM POLE	NLS LIGHTING	NV-1-T5W-64L-1-40K8-UNV-DPS3-***	INTEGRAL 207W LED	120V / 277V	0-10V		SELECT FINISH
	SB2	DOUBLE OUTDOOR AREA LUMINAIRE ARM MOUNTED TO 25-FT ROUND TAPERED ALUM POLE	NLS LIGHTING	(2) NV-1-T5W-64L-1-40K8-UNV-DPS3-***	INTEGRAL 414W LED	120V / 277V	0-10V		SELECT FINISH
	SC	SINGLE OUTDOOR AREA LUMINAIRE ARM MOUNTED TO 25-FT ROUND TAPERED ALUM POLE	NLS LIGHTING	NV-1-T4-64L-1-40K8-UNV-DPS3-***-HSS	INTEGRAL 207W LED	120V / 277V	0-10V		SELECT FINISH
	SR	SINGLE OUTDOOR AREA LUMINAIRE ARM MOUNTED TO 25-FT ROUND TAPERED ALUM POLE	NLS LIGHTING	NV-1-CDR-64L-1-40K8-UNV-DPS3-***	INTEGRAL 200W LED	120V / 277V	0-10V		SELECT FINISH
	W1	WALL MOUNTED OUTDOOR AREA LUMINAIRE ON EM GENERATOR	LITHONIA	WDGE1 LED P2 40K 80CRI VF MVOLT D****	INTEGRAL 15W LED	MVOLT	0-10V		SELECT FINISH
EXT WALL LIGHT AT SALLY PORT	W2	WALL MOUNTED OUTDOOR AREA LUMINAIRE ON EM GENERATOR	LITHONIA	WDGE2 LED P2 40K 80CRI T4M MVOLT D****	INTEGRAL 19W LED	MVOLT	0-10V		SELECT FINISH

NOTES:

1) integral low-voltage transformer / ballast / power supply - contractor to verify compatibility with dimming system
2) owner / architect to verify trim finish
3) include remote power supply - contractor to verify compatibility with dimming system
4) include all electrical and mounting accessories, connectors, etc.
5) length in inches per plan
6) dimensions are nominal: contractor to verify exact size prior to fabrication
7) COORDINATE ALL LIGHTING WITH POWER & LIGHTING SYSTEMS, INC.
8) PROVIDE ALL LIGHTING FIXTURES AS SPECIFIED. SUBSTITUTIONS WILL NOT BE ACCEPTED WITHOUT PRIOR APPROVAL FROM THE OWNER AND ARCHITECT.

Power & Lighting Systems, Inc.
HONESTY • INTEGRITY • SERVICE • SINCE 1958

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Manufacturer's Representatives
Innovative Specification Systems
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phone: (954) 360-7606
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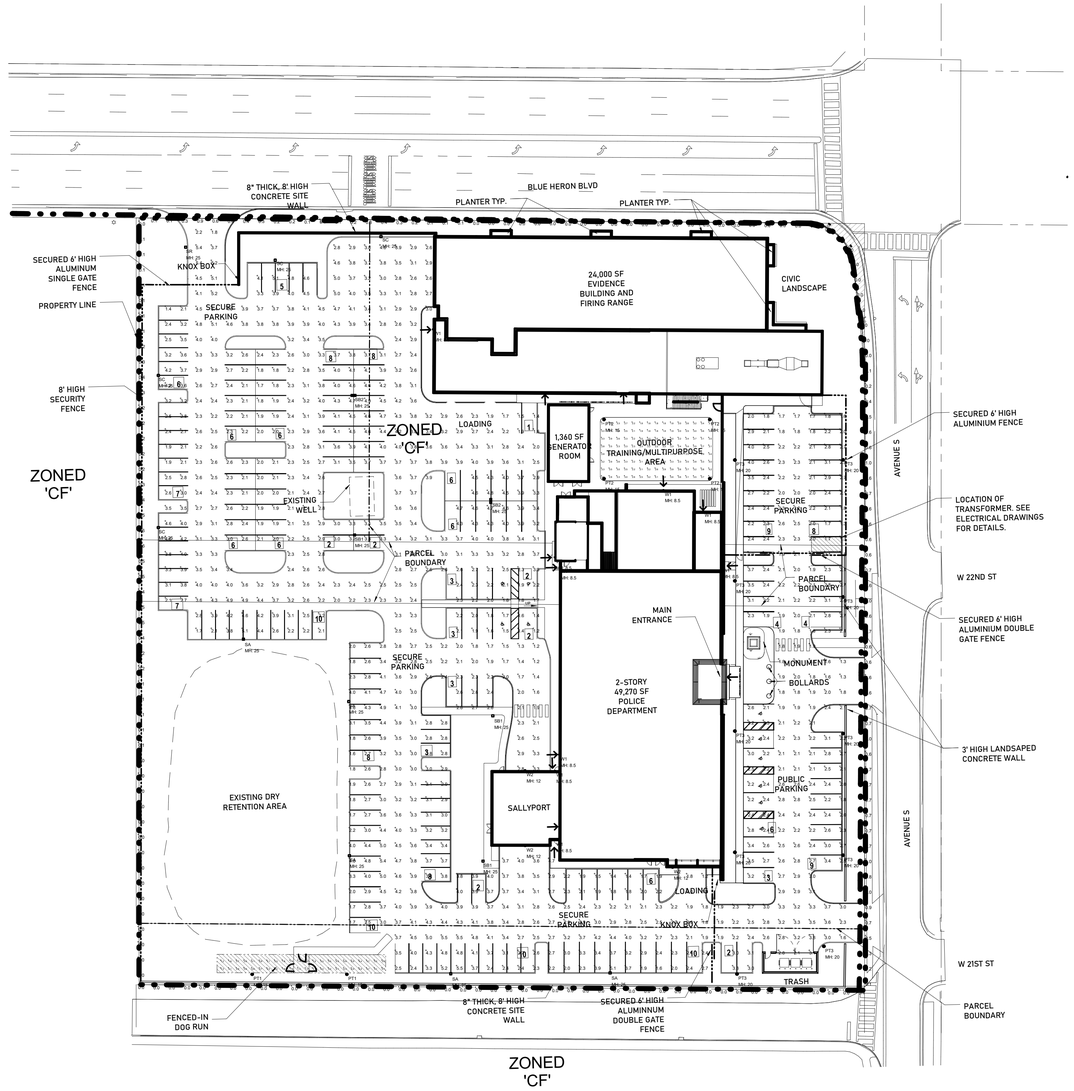

SITE PHOTOMETRICS 1" = 40'-0" (1)

Luminaire Schedule: RIVIERA BEACH POLICE DEPARTMENT - SITE_REV 1 RIVIERA BEACH, FL 07/07/2025

Symbol	Qty	Label	Arrangement	Manufacturer	Catalog Number	Mounting	LLF	Lum Lumens	Lum Watts	Arrangement Watts
	2	PT1	Single	NLS Lighting LLC	ORX-2-SPT-T3-16L-1-40K8	15' POST TOP MOUNT (bottom of fixture)	0.903	5110	51	51
	4	PT2	Single	NLS Lighting LLC	ORX-2-SPT-T4-16L-1-40K8	15' POST TOP MOUNT (bottom of fixture)	0.903	5077	51	51
	10	PT3	Single	NLS Lighting LLC	ORX-2-SPT-T4-32L-1-40K8	20' POST TOP MOUNT (bottom of fixture)	0.903	10153	102	102
	5	SA	Single	NLS Lighting LLC	NV-1-T4FTW-64L-1-40K7	25' POLE MOUNT A.F.G.	0.903	24452	207	207
	3	SB1	Single	NLS Lighting LLC	NV-1-T5W-64L-1-40K8	25' POLE MOUNT A.F.G.	0.903	26363	207	207
	2	SB2	Back-Back	NLS Lighting LLC	NV-1-T5W-64L-1-40K8	25' POLE MOUNT A.F.G.	0.903	26363	207	414
	4	SC	Single	NLS Lighting LLC	NV-1-T4-64L-1-40K8-HSS	25' POLE MOUNT A.F.G.	0.903	15248	205	205
	1	SR	Single	NLS Lighting	NV-1-CDR-64L-1-40K8	25' POLE MOUNT A.F.G.	0.903	9286	200	200
	9	W1	Single	Lithonia Lighting	WDGE1 LED P2 40K 80CRI VF	WALL MOUNT A.F.F.	0.903	1979	15.0178	15.018
	3	W2	Single	Lithonia Lighting	WDGE2 LED P2 40K 80CRI T4M	WALL MOUNT A.F.F.	0.903	2018	18.9815	18.982

Calculation Summary: RIVIERA BEACH POLICE DEPARTMENT - SITE_REV 1 RIVIERA BEACH, FL 07/07/2025

Label	Calc Type	Units	Grid Spacing L-R	Grid Spacing T-B	Grid Height	Avg	Max	Min	Avg/Min	Max/Min
DOG RUN	Illuminance	Fc	5	5	0	2.88	4.9	1.2	2.40	4.08
OUTDOOR TRAINING AREA	Illuminance	Fc	5	5	0	2.70	6.8	1.8	1.50	3.78
PROPERTY LINE SPILL	Illuminance	Fc	10	N.A.	0	0.21	1.0	0.0	N.A.	N.A.
PUBLIC PARKING	Illuminance	Fc	10	10	0	2.45	3.8	1.3	1.88	2.92
SECURE PARKING NORTHEAST SIDE	Illuminance	Fc	10	10	0	2.25	4.0	1.3	1.73	3.08
SECURE PARKING WEST SIDE	Illuminance	Fc	10	10	0	3.09	5.5	1.2	2.58	4.58

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PROJECT LOCATION

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RIVIERA BEACH, FL
33404

PROJECT NUMBER

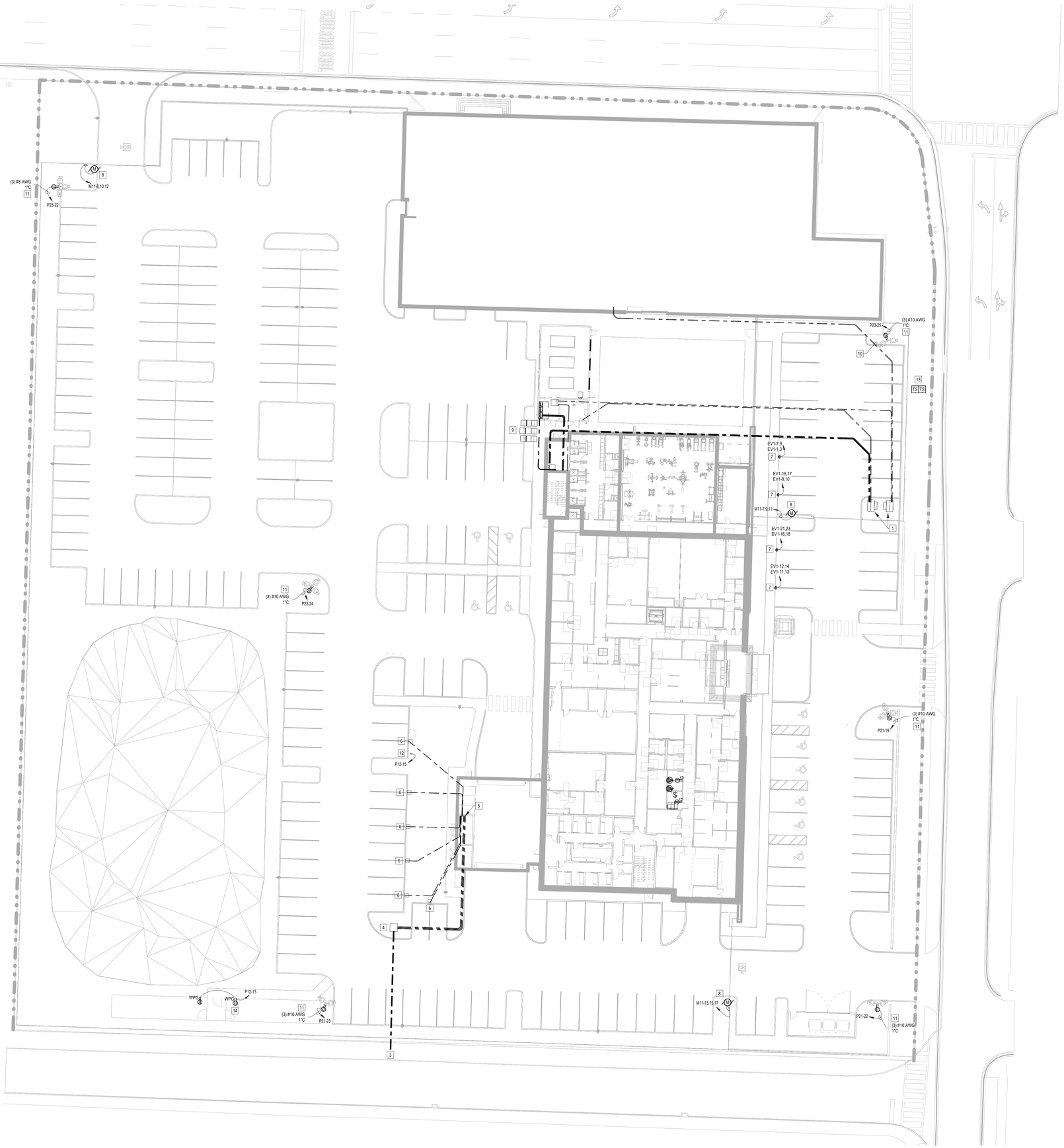
1007657.00

SHEET TITLE

SITE PLAN - PHOTOMETRICS

SHEET NUMBER

E0.11



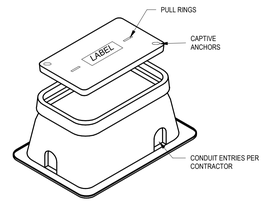
SITE PLAN - ELECTRICAL 3/64" = 1'-0" (1)

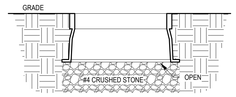
GENERAL SITE NOTES:

1. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION OF "COMPLETE AND OPERATIONAL" ELECTRICAL SYSTEM WHICH COMPLY WITH "NEC 2020 CODE AND 2023 FBC".
2. CONTRACTOR SHALL UPSIZE WIRE TO COMPENSATE FOR VOLTAGE DROP WHERE NECESSARY. INSTALLATION SHALL COMPLY WITH FLORIDA BUILDING CODE C405.5.3.
3. WHERE CONDUIT ROUTING IS SHOWN, THE CONDUITS ARE SHOWN FOR DIAGRAMMATIC PURPOSES AND ARE NOT NECESSARILY REPRESENTATIVE OF EXACT PLACEMENT.
4. FIELD VERIFY EXISTING SITE CONDITIONS. EXISTING UNDERGROUND UTILITIES MUST BE LOCATED AND MARKED USING ALL AVAILABLE RESOURCES PRIOR TO COMMENCEMENT OF ANY UNDERGROUND SITE WORK.
5. COORDINATE ALL UNDERGROUND WORK WITH ALL OTHER TRADES AND ACTUAL FIELD CONDITIONS FOR PROPER CLEARANCES.
6. PVC CONDUITS ON THE EXTERIOR ABOVE GROUND WHEN INSTALLED HORIZONTALLY TO BE LOCATED UNDER CANOPIES AND/OR ROOF EXTENSIONS SO IT IS PROTECTED FROM DIRECT SUNLIGHT.
7. TOP OF CONDUITS SHALL BE MINIMUM 36" BELOW FINISHED GRADE FOR DIRECT BURIED CONDUIT.
8. CONTRACTOR SHALL FURNISH AND INSTALL MANHOLES OR HAND HOLE PULL BOXES IN ACCORDANCE WITH PBC STANDARDS OR REQUIREMENTS.
9. COORDINATE WITH OTHER TRADES TO MAINTAIN A MINIMUM 1'-0" VERTICAL AND HORIZONTAL SEPARATION BETWEEN ELECTRICAL CONDUITS AND ANY OTHER SYSTEMS AND OBSTRUCTIONS.
10. ALL FINAL EQUIPMENT AND UTILITY LOCATIONS SHALL BE COORDINATED WITH CIVIL, LANDSCAPE, ARCHITECT AND OWNER PRIOR TO THE START OF ANY UNDERGROUND SITE WORK.
11. THE CONDUITS ROUTING SHALL BE COORDINATED WITH LANDSCAPING, FENCING, TREES, PAVED AREAS, AND OTHER SERVICES, AND SHOULD FOLLOW A NATURAL PARALLEL LINE OF SIGHT SUCH AS PROPERTY LINES, SIDEWALKS, AND DRIVEWAYS, A DISTANCE OF APPROXIMATELY 6 FEET SHALL BE MAINTAINED FROM THE PROPERTY LINE.
12. ALL MAN HOLE/HAND HOLE/PULL BOXES WITHIN 10'-0" OF A VEHICULAR ROADWAY SHALL HAVE ANSI/SCTE TIER 22 HEAVY DUTY RATING AT MINIMUM WITH TRAFFIC RATED COVERS.

KEYNOTES:

1. PROPOSED LOCATION FOR ELECTRICAL UTILITY TRANSFORMERS. EC TO INSTALL FPL PROVIDED CONDUITS. EC TO PROVIDE TRANSFORMER PAD. REFER TO PAD DETAILS ON SHEET E6.04. COORDINATE ADDITIONAL REQUIREMENTS WITH FP&L PRIOR TO START OF ANY UNDERGROUND WORK.
2. REFER TO RISER DIAGRAM ON SHEET E5.01 FOR FEEDER SIZES AND QUANTITIES. COORDINATE ROUTING WITH OTHER TRADES PRIOR TO THE START OF ANY UNDERGROUND WORK.
3. PROVIDE (3) 2" CONDUITS FOR FUTURE UTILITY TRANSFORMER TO SERVE FUTURE EV CAR CHARGING STATIONS. STUB-UP AND CAP CONDUITS AT UTILITY POLE. COORDINATE ADDITIONAL REQUIREMENTS WITH FP&L PRIOR TO START OF ANY UNDERGROUND WORK.
4. PROPOSED LOCATION FOR FUTURE PRIMARY TRANSFORMER TO SERVE FUTURE EV CAR CHARGING PANELBOARD. PROVIDE PULL BOX AND TERMINATE PRIMARY CONDUITS INSIDE. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH FP&L PRIOR TO THE START OF ANY UNDERGROUND WORK.
5. PROPOSED LOCATION FOR FUTURE EV CHARGING PANELBOARD. COORDINATE FINAL LOCATION WITH OWNER PRIOR TO ROUGH-IN.
6. PROPOSED LOCATION FOR FUTURE EV CHARGING STATIONS. ROUTE CONDUITS FROM EV PARKING LOCATION TO FUTURE EV PANELBOARD LOCATION. TERMINATE CONDUITS IN PULL BOX AT EV CHARGER LOCATION
7. PROPOSED LOCATION FOR DAY-1 DUAL LEVEL-2 EV CHARGING STATION. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.
BOD: LEVITON EVB00 EV CHARGER - EPED2 PEDESTAL
8. PROVIDE POWER CONNECTION TO MOTORIZED GATE OPERATOR. COORDINATE FINAL LOCATION WITH ARCHITECT AND ADDITIONAL CONNECTION REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.
9. PROPOSED LOCATION FOR MANUAL TRANSFER SWITCHES. COORDINATE FINAL LOCATION WITH OWNER AND OTHER TRADES PRIOR TO THE START OF ANY UNDERGROUND WORK.
10. REFER TO EVIDENCE/FIRING RANGE BUILDING DRAWINGS FOR FEEDER SIZES AND QUANTITIES. COORDINATE ADDITIONAL REQUIREMENTS WITH FP&L PRIOR TO THE START OF ANY UNDERGROUND WORK.
11. PROVIDE WPG RECEPTACLE FOR FIBER TO COPPER CONVERSION IN CCTV NETWORK EQUIPMENT HOUSING. REFER TO DETAIL #1 ON SHEET T4.02 FOR ADDITIONAL CONNECTION REQUIREMENTS.
12. PROVIDE POWER TO VACUUM AND AIR PRESSURE MACHINE. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.
13. PROPOSED LOCATION OF DDCV. PROVIDE FIRE ALARM CONNECTION TO TAMPER SWITCHES. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH FIRE PROTECTION CONTRACTOR AND CIVIL ENGINEER PRIOR TO THE START OF ANY UNDERGROUND WORK.
14. PROVIDE LOCKABLE DIE-CAST IN-USE ALUMINUM COVER. (TYPICAL FOR ALL EXTERIOR WPG RECEPTACLES)
BOD: INTERMATIC WP1250MVXD





NOTES:
A. BOXES TO BE SIZED PER NEC 314.28 BASED UPON FIELD CONFIGURATION OF CONDUIT ENTRIES. PROVIDE EXTENSIONS WHERE REQUIRED.
B. BOX AND LID TO BE CONSTRUCTED OF POLYMER CONCRETE. LID TIER RATING PER INSTALLED LOCATION.
C. REFER TO SPECIFICATIONS FOR RELATED INFORMATION.

(2) PULL BOX DETAIL
NTS

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10/14/2025

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RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
SITE PLAN - ELECTRICAL

SHEET NUMBER
E0.20

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/RBPD_MEPF_R24.rvt
DATE STAMP: 10/23/2025 11:47:00 AM

KEYNOTES:

1. EXTEND LIFE SAFETY BRACH CIRCUIT WIRING FOR ALL EXIT LUMINAIRES AHEAD OF ALL SWITCHING. (TYPICAL)
2. CORRIDOR AND LOBBY LIGHTING CONTROLLED VIA LIGHTING CONTROL PANEL TIMECLOCKOCCUPANCY SENSOR COMBINATION. (TYPICAL)
3. PROVIDE WALL MOUNTED OCCUPANCY SENSORS IN CORRIDORS. COORDINATE FINAL LOCATION WITH OTHER TRADES PRIOR TO ROUGH-IN. (TYPICAL)
4. STAIRWELL LIGHTING CONTROLLED VIA INTEGRAL OCCUPANCY SENSOR. STAIRWELL FIXTURES TO DIM TO 50% WHEN NOT OCCUPIED.
5. EXTERIOR LIGHTING CONTROLLED VIA LIGHTING CONTROL PANEL TIMECLOCK/PHOTOCELL COMBINATION. REFER TO LCP SCHEDULE ON SHEET E7.05 FOR ADDITIONAL INFORMATION. (TYPICAL)
6. PROPOSED LOCATION FOR LIGHTING CONTROL PANEL COORDINATE FINAL LOCATION WITH OTHER TRADES PRIOR TO ROUGH-IN.
7. PROVIDE VANDAL RESISTANT COVER. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.
8. PROPOSED HOLDING CELL LIGHTING OVERRIDE SWITCH LOCATION. COORDINATE FINAL LOCATION WITH ARCHITECT AND END USER PRIOR TO ROUGH-IN.
9. PROVIDE POWER AND BOXES FOR LIT LETTERED ENTRY SIGNAGE AND BACK-LIT PERIMETER GLAZING LIGHTING. ALL ENTRY LIGHTING SHALL BE CONTROLLED VIA LIGHTING CONTROL PANEL TIMECLOCK/PHOTOCELL COMBINATION. FINAL FIXTURE SELECTION AND DETAILS TO BE CONFIRMED BY ARCHITECT. REFER TO ARCHITECTURAL SECTIONS ON SHEET A7.20 FOR ADDITIONAL DETAILS.
10. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS ON SHEET A3.10 FOR ACOUSTIC BAFFLE TYPE 'N2' FOR QUANTITIES AND LENGTHS. CENTER ROW IS LUMINAIRE TYPE 'N1'. COORDINATE QUANTITIES, LENGTHS AND ADDITIONAL REQUIREMENTS WITH ARCHITECT.ID PRIOR TO RELEASE.

GENERAL LIGHTING NOTES:

1. ALL LIGHT SWITCHES SHALL BE 277V RATED UNLESS OTHERWISE NOTED.
2. COORDINATE EXACT LOCATION OF EACH LIGHT FIXTURE WITH MECHANICAL PIPING, CONDUIT, HVAC GILLES, ETC. FIELD ADJUST ANY LIGHT TO AVOID CONFLICT.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT TYPE AND HEIGHT OF CEILING IN EACH ROOM. COORDINATE WITH ARCHITECT/ENGINEER PRIOR TO ROUGH-IN OF ANY FIXTURES. COORDINATE ALL CONTROL JOINT LOCATIONS WITH LIGHT FIXTURES PRIOR TO ANY ROUGH-IN OF FIXTURES.
4. EXIT LIGHTS SHALL BE MOUNTED WITH BOTTOM OF FIXTURE AT 6" ABOVE DOOR HEADER IN ALL AREAS THAT PERMIT THIS PLACEMENT. ALL OTHERS MAY BE CEILING MOUNTED.
5. MULTIPLE LIGHT SWITCHES, AT THE SAME LOCATION, SHALL BE GANGED TOGETHER UNDER ONE COVER PLATE. DIMMER SWITCHES SHALL BE INSTALLED IMMEDIATELY BELOW SWITCH LOCATIONS.
6. COORDINATE LOCATION OF ALL LIGHT FIXTURES WITH ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS PRIOR TO ROUGH-IN.
7. POWER PACK FOR OCCUPANCY SENSORS ARE NOT INDICATED ON PLANS. ELECTRICAL CONTRACTOR SHALL PROVIDE POWER PACKS PER OCCUPANCY SENSOR MANUFACTURER'S RECOMMENDATIONS.
8. PROVIDE A LIGHTING CONTROL SYSTEM TO CONTROL ALL LIGHTS, UNLESS NOTED OTHERWISE. BASIS OF DESIGN FOR LOW VOLTAGE LIGHTING CONTROL SYSTEM IS ACUITY. PROVIDE ALL COMPONENTS REQUIRED FOR A COMPLETELY OPERATIONAL LIGHTING CONTROL SYSTEM. REFER TO SHEET FOR LIGHTING CONTROL PLANS.
9. LIGHTING FIXTURE CONTROL WITH OCCUPANCY SENSORS/PHOTOCELLS, ETC. SHOWN ON DRAWINGS ARE DIAGRAMMATIC. LIGHTING CONTROL SYSTEM PHOTOCELLS, OCCUPANCY SENSORS, WALL SWITCHES, POWER SUPPLIES/REMOTE DRIVERS (NOT SHOWN), ETC., SHALL BE COORDINATED WITH LIGHTING CONTROLS MANUFACTURER'S SHOP DRAWINGS. INDICATED QUANTITIES, TYPE, AND LOCATION OF DEVICES SHOWN ON LIGHTING CONTROLS MANUFACTURER'S SHOP DRAWINGS SHALL SUPERCEDE DEVICES INDICATED ON THIS DRAWING.
10. PROVIDE ADDITIONAL UL924 LISTED EMERGENCY RELAYS AND BYPASS DEVICES AS NEEDED FOR CONTROL OF EMERGENCY LIGHTING CIRCUITS IN ALL COMMON AREAS, CORRIDORS, AND OTHER AREAS AS REQUIRED BY CODE.

1ST FLOOR PLAN - LIGHTING 1/8" = 1'-0" (1)

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WEST PALM BEACH, FL 33409
FL REG. NO.: PE82143

DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

CMTA
A LEGENCE Company
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PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

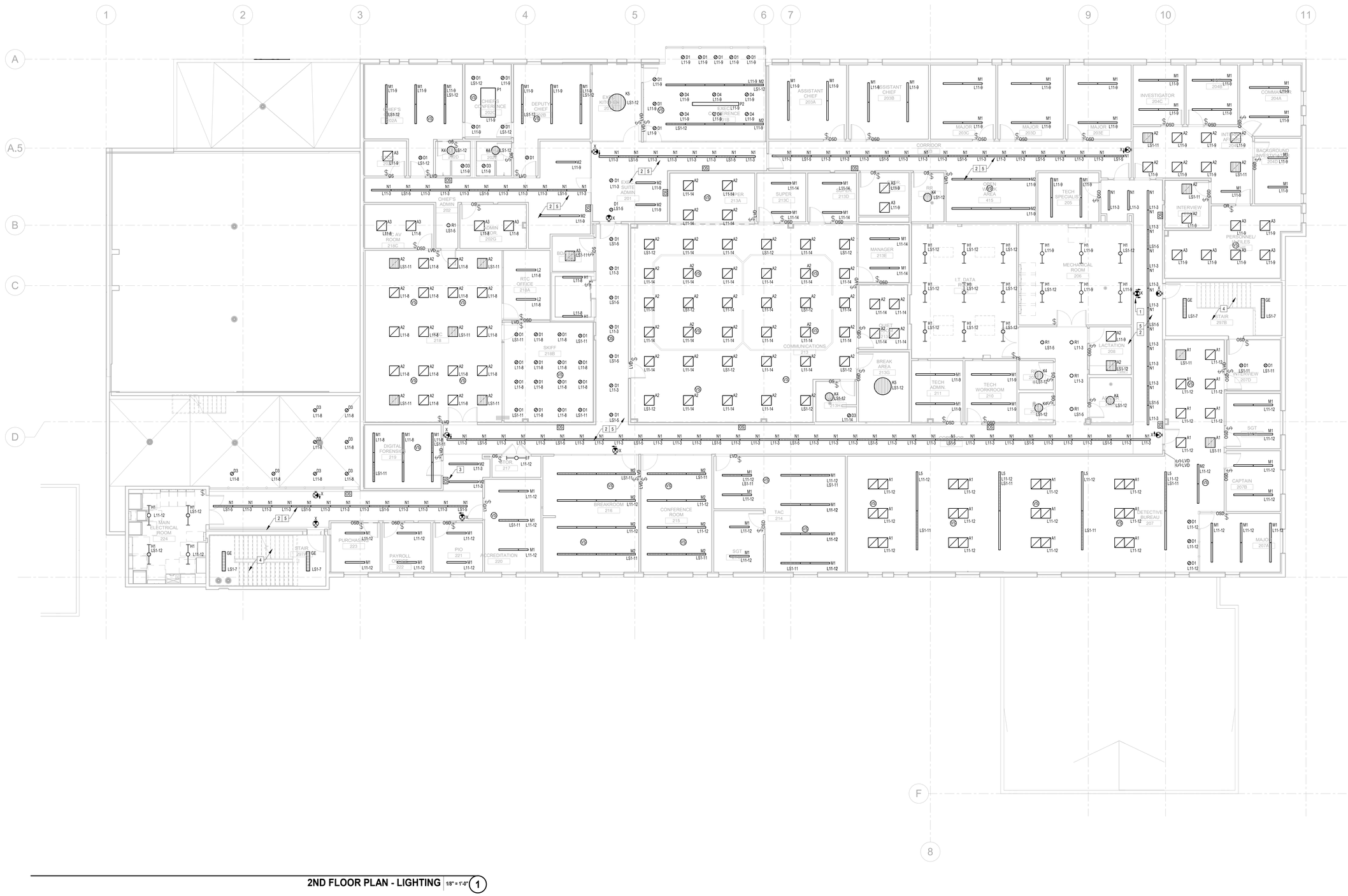
PROJECT NUMBER
1007657.00

SHEET TITLE
1ST FLOOR PLAN - ADMIN - LIGHTING

SHEET NUMBER
E1.01

KEYNOTES:

1. EXTEND LIFE SAFETY BRACH CIRCUIT WIRING FOR ALL EXIT LUMINAIRES AHEAD OF ALL SWITCHING. (TYPICAL)
2. COORIDOR AND LOBBY LIGHTING CONTROLLED VIA LIGHTING CONTROL PANEL TIMECLOCK/OCCUPANCY SENSOR COMBINATION. (TYPICAL)
3. PROVIDE WALL MOUNTED OCCUPANCY SENSORS IN CORRIDORS. COORDINATE FINAL LOCATION WITH OTHER TRADES PRIOR TO ROUGH-IN. (TYPICAL)
4. STAIRWELL LIGHTING CONTROLLED VIA INTEGRAL OCCUPANCY SENSOR. STAIRWELL FIXTURES TO DIM TO 50% WHEN NOT OCCUPIED.
5. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS ON SHEET A3.20 FOR ACOUSTIC BAFFLE TYPE 'N2' FOR QUANTITIES AND LENGTHS. CENTER ROW IS LUMINAIRE TYPE 'N1'. COORDINATE QUANTITIES, LENGTHS AND ADDITIONAL REQUIREMENTS WITH ARCHITECT/D PRIOR TO RELEASE.



2ND FLOOR PLAN - LIGHTING | 1/8" = 1'-0" (1)

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach DIRBPD_MEPF_R24.rvt
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CLIENT

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RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER
1007657.00

SHEET TITLE
2ND FLOOR PLAN - ADMIN - LIGHTING

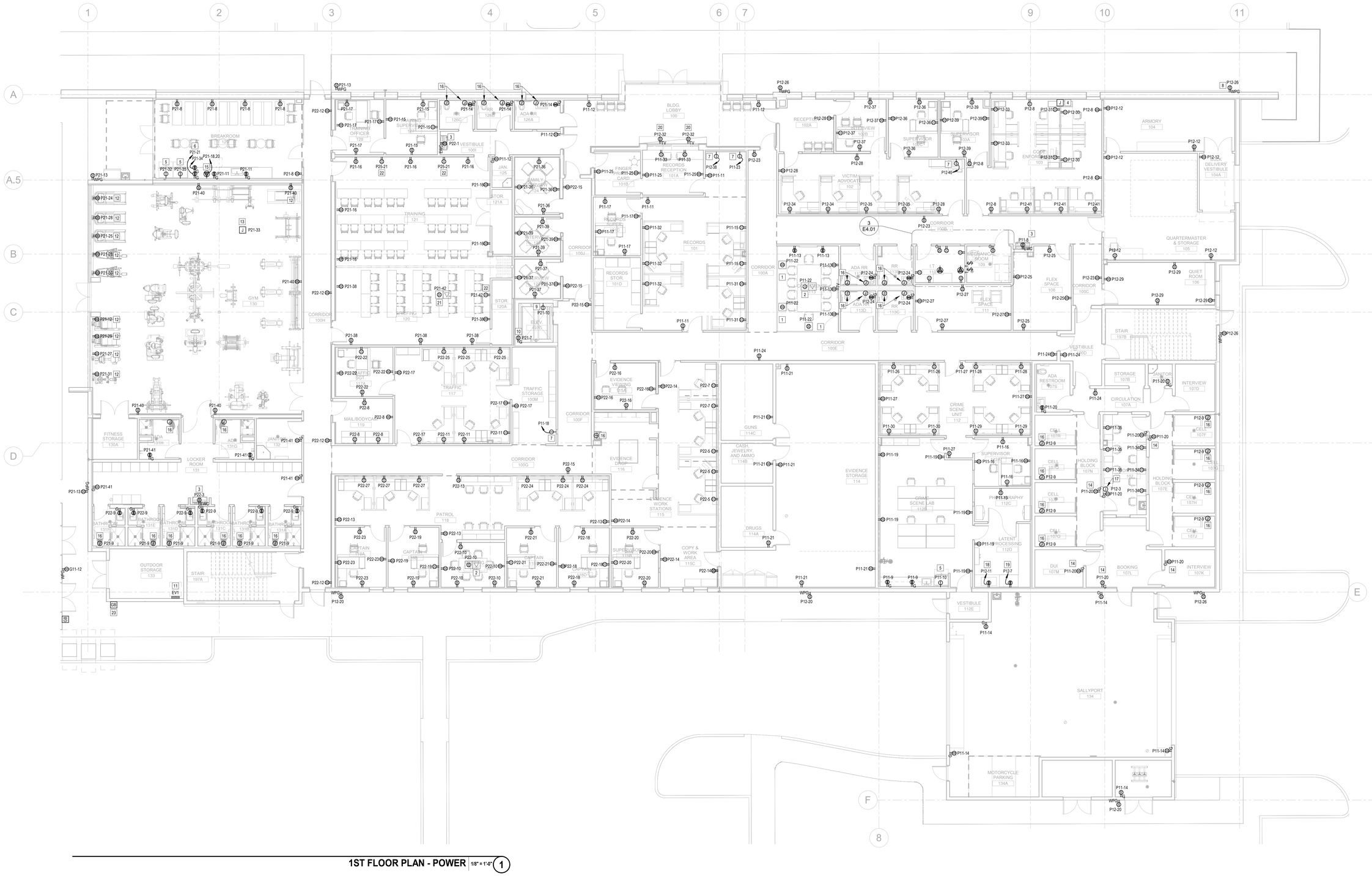
SHEET NUMBER
E1.02

KEYNOTES:

1. PROVIDE 4-GANG FLOOR BOX. COORDINATE FINAL LOCATION WITH OTHER TRADES PRIOR TO ROUGH-IN. COVER AND FINISH BY ARCHITECT. EC SHALL OBTAIN DIMENSION DRAWINGS FROM ARCHITECT PRIOR TO ROUGH-IN.
   BOD: WIREMOLD EVOLUTION EFB4SS SERIES OR APPROVED EQUAL.
2. PROVIDE 6-GANG FLOOR BOX BELOW CONFERENCE TABLE. COORDINATE FINAL LOCATION WITH OTHER TRADES PRIOR TO ROUGH-IN. COVER AND FINISH BY ARCHITECT. EC SHALL OBTAIN DIMENSION DRAWINGS FROM ARCHITECT PRIOR TO ROUGH-IN.
   BOD: WIREMOLD EVOLUTION EFB6S SERIES OR APPROVED EQUAL.
3. PROVIDE POWER CONNECTION TO EWC. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. EWC SHALL BE FED BY GFCI BREAKER.
4. COORDINATE INCOMING POWER CONNECTION TO FURNITURE WITH ARCHITECT AND FURNITURE VENDOR PRIOR TO ROUGH-IN.
5. PROVIDE POWER CONNECTION TO REFRIGERATOR. REFER TO ARCHITECTURAL ELEVATIONS FOR ADDITIONAL DETAILS.
6. PROVIDE POWER CONNECTION TO MICROWAVE. REFER TO ARCHITECTURAL ELEVATIONS FOR ADDITIONAL DETAILS.
7. PROVIDE POWER CONNECTION TO PHOTO COPIER MACHINE. COORDINATE FINAL LOCATION OF PHOTO COPIER MACHINE WITH ARCHITECT/ID AND OWNER PRIOR TO ROUGH-IN.
8. PROVIDE LOCKABLE DIE-CAST IN-USE ALUMINUM COVER. (TYPICAL FOR ALL EXTERIOR WPG RECEPTACLES)
   BOD: INTERMATIC WP1250MVXD
9. PROVIDE POWER TO ELEVATOR SUMP PUMP. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH PLUMBING CONTRACTOR AND ELEVATOR MANUFACTURER. PRIOR TO ROUGH-IN.
10. PROVIDE ELEVATOR PIT RECEPTACLE. COORDINATE FINAL LOCATION WITH ELEVATOR MANUFACTURER PRIOR TO ROUGH-IN.
11. CODE REQUIRED CLEARANCES SHALL BE MAINTAINED IN FRONT OF PANELBOARD.
12. PROVIDE POWER CONNECTION TO GYM EQUIPMENT. COORDINATE FINAL INSTALLATION REQUIREMENTS WITH ARCHITECT AND GYM EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.
13. PROVIDE POWER CONNECTION TO CEILING MOUNTED ROPE CLIMBING SYSTEM. COORDINATE FINAL CONNECTION REQUIREMENTS WITH END USER AND OTHER TRADES PRIOR TO ROUGH-IN.
14. PROVIDE HEAVY DUTY TAMPER RESISTANT GFI RECEPTACLE AND STAINLESS STEEL WALL PLATE.
15. PROVIDE 14-50R RECEPTACLE FOR COOKING RANGE POWER CONNECTION. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH MANUFACTURER AND OTHER TRADES PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL ELEVATIONS FOR DETAILS.
16. PROVIDE POWER CONNECTION TO AUTOMATIC FLUSH VALVE AND/OR AUTOMATIC FAUCET. WIRE TO NEAREST GENERAL RECEPTACLE CIRCUIT AHEAD OF ANY GFI RECEPTACLE IF CIRCUIT NUMBER IS NOT DESIGNATED. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
17. PROVIDE POWER CONNECTION TO DOMESTIC WATER MANAGEMENT CONTROLLER. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
18. PROVIDE POWER CONNECTION TO CYANOACRYLATE FUMING CHAMBER. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH MANUFACTURER AND OWNER PRIOR TO ROUGH-IN.
19. PROVIDE POWER CONNECTION TO AIRCLEAN 4000 WORKSTATION. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH MANUFACTURER AND OWNER PRIOR TO ROUGH-IN.
20. PROVIDE POWER TO LOBBY DIGITAL DISPLAYS. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.
21. PROVIDE 6-GANG FLOOR BOX FOR AV REQUIREMENTS. COORDINATE FINAL LOCATION WITH OTHER TRADES PRIOR TO ROUGH-IN. COVER AND FINISH BY ARCHITECT. EC SHALL OBTAIN DIMENSION DRAWINGS FROM ARCHITECT PRIOR TO ROUGH-IN.
    BOD: WIREMOLD EVOLUTION EFB6S SERIES OR APPROVED EQUAL.
22. PROVIDE POWER CONNECTION TO FLAT SCREEN DISPLAY. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH AV CONTRACTOR AND OTHER TRADES PRIOR TO ROUGH-IN.
23. PROVIDE EMERGENCY GLASS BREAK BUTTON FOR DE-ENERGIZATION OF BUILDING ELECTRICAL SERVICE SWITCHBOARD 'MSB1'. COORDINATE FINAL LOCATION WITH AHJ PRIOR TO ROUGH-IN.

GENERAL POWER NOTES:

1. COORDINATE EXACT INSTALLATION REQUIREMENTS OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS AND ACCEPTED MILLWORK SHOP DRAWINGS. RELOCATE RECEPTACLES AND ELECTRICAL EQUIPMENT TO AVOID CONFLICTS WITH ARCHITECTURAL CASEWORK.
2. LOCATIONS OF ALL DEVICES ON DRAWINGS ARE APPROXIMATE ONLY. VERIFY EXACTLY LOCATION WITH OWNERS REPRESENTATIVES, ARCHITECT AND/OR ENGINEER PRIOR TO ROUGH-IN.
3. COORDINATE THE LOCATION OF POWER RECEPTACLES WITH VOICE/DATA OUTLETS ESPECIALLY WHERE COMPUTERS ARE TO BE LOCATED. COORDINATE WITH TECHNOLOGY DRAWINGS.
4. ALL RACEWAYS AND CABLE SHALL BE CONCEALED UNLESS NOTED OR APPROVED IN WRITING BY OWNER AND/OR ENGINEER.
5. ALL 15 AND 20 AMPS, 125 VOLTS RECEPTACLES SHALL BE TAMPER-RESISTANT RECEPTACLES.
6. ALL CONTROL WIRING FOR MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.
7. COORDINATE WITH PLUMBING CONTRACTOR FOR EXACT LOCATION AND CONNECTION REQUIREMENTS OF EQUIPMENT PRIOR TO ROUGH-IN.
8. ALL 20A, 120/208V HOMERUNS LONGER THAN 90' SHALL BE A MINIMUM SIZE OF #10 AWG AND ALL HOMERUNS LONGER THAN 230' SHALL BE A MINIMUM OF SIZE OF #6 AWG.
9. MOUNT ALL DISCONNECT SWITCHES FOR MECHANICAL EQUIPMENT WITHIN 6 FT. OF EQUIPMENT CONNECTION POINT. VERIFY LOCATION OF POINT OF CONNECTION WITH EQUIPMENT INSTALLER PRIOR TO ELECTRICAL ROUGH-IN. MAINTAIN CODE REQUIRED CLEARANCES. (DRAWINGS ONLY SHOW DIAGRAMMATIC LOCATION OF CONNECTION).
10. VFD/STARTERS ON MECHANICAL EQUIPMENT ARE SHOWN FOR WIRING PURPOSES ONLY. VFD/STARTERS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
11. DISCONNECT SWITCHES FOR ALL MECHANICAL, PLUMBING AND MISCELLANEOUS ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN READILY ACCESSIBLE LOCATIONS. MAINTAIN CODE REQUIRED CLEARANCES.
12. FLOOR BOX LOCATIONS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT TO OBTAIN ROUGH-IN DIMENSIONS.
13. PROVIDE POWER CONNECTION ABOVE DOORS WITH ACCESS CONTROLS. DOORS SHALL BE WIRED TO NEAREST 120V GENERAL POWER CIRCUIT. REFER TO ARCHITECTURAL DOOR SCHEDULE AND TECHNOLOGY DRAWINGS FOR DETAILS AND ACCESS CONTROL LOCATIONS. COORDINATE ADDITIONAL REQUIREMENTS WITH DIVISION 27 AND 28 CONTRACTORS PRIOR TO ROUGH-IN.



1ST FLOOR PLAN - POWER 1/8" = 1'-0" (1)

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CLIENT

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90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
1ST FLOOR PLAN - ADMIN - POWER

SHEET NUMBER
E2.01

KEYNOTES:

1. PROVIDE EXTERNAL DISCONNECT SWITCH OF VAV. REFER TO EQUIPMENT SCHEDULE ON SHEET E7.05 FOR SIZES. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. (TYPICAL FOR ALL HEATING VAVS)
2. INDOOR UNIT FED FROM OUTDOOR UNIT. PROVIDED STRANDED WIRING BACK TO OUTDOOR UNIT PER MANUFACTURER'S RECOMMENDATION. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
3. PROVIDE POWER CONNECTION TO GWH-1. REFER TO EQUIPMENT SCHEDULE ON SHEET E7.05 FOR SIZES. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
4. PROVIDE POWER CONNECTION TO OVERHEAD COILING DOORS. REFER TO EQUIPMENT SCHEDULE ON SHEET E7.05 FOR SIZES. COORDINATE FINAL PUSH BUTTON ACTIVATION LOCATION AND ADDITIONAL CONNECTION REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.
5. PROVIDE POWER CONNECTION TO HVLS CEILING FAN. PROVIDE ADDITIONAL CONDUITS AND BOXES TO CONTROL STATION LOCATION PER MECHANICAL DRAWINGS. COORDINATE FINAL CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
6. PROVIDE POWER CONNECTION TO KITCHEN EXHAUST HOOD KEH-1. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS TO KEF-1 WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.



1ST FLOOR PLAN - POWER MECHANICAL 1/8" = 1'-0" (1)

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CLIENT

CITY OF RIVIERA BEACH
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DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

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PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL
33404

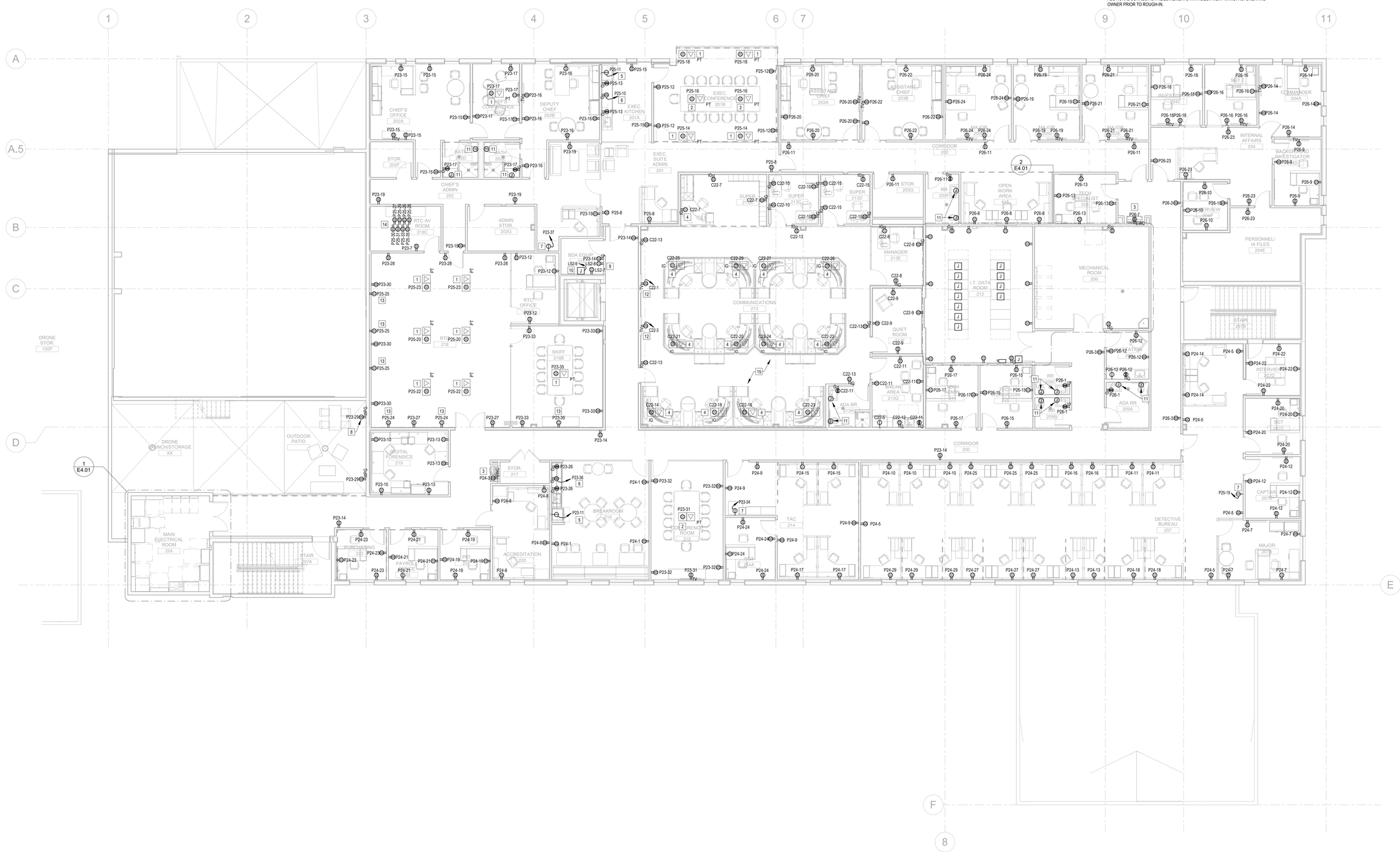
PROJECT NUMBER
1007657.00

SHEET TITLE
1ST FLOOR PLAN - ADMIN - POWER MECHANICAL

SHEET NUMBER
E2.01M

KEYNOTES:

1. PROVIDE 4-GANG POKE-THRU. COORDINATE FINAL LOCATION WITH OTHER TRADES PRIOR TO ROUGH-IN. COVER AND FINISH BY ARCHITECT. EC SHALL OBTAIN DIMENSION DRAWINGS FROM ARCHITECT PRIOR TO ROUGH-IN.
   BOD: WIREMOLD EVOLUTION 4AT SERIES OR APPROVED EQUAL.
2. PROVIDE 6-GANG POKE-THRU BELOW CONFERENCE TABLE. COORDINATE FINAL LOCATION WITH OTHER TRADES PRIOR TO ROUGH-IN. COVER AND FINISH BY ARCHITECT. EC SHALL OBTAIN DIMENSION DRAWINGS FROM ARCHITECT PRIOR TO ROUGH-IN.
   BOD: WIREMOLD EVOLUTION 6AT SERIES OR APPROVED EQUAL.
3. PROVIDE POWER CONNECTION TO EWC. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. EWC SHALL BE FED BY GFCI BREAKER.
4. COORDINATE INCOMING POWER CONNECTION TO FURNITURE WITH ARCHITECT AND FURNITURE VENDOR PRIOR TO ROUGH-IN.
5. PROVIDE POWER CONNECTION TO REFRIGERATOR. REFER TO ARCHITECTURAL ELEVATIONS FOR ADDITIONAL DETAILS.
6. PROVIDE POWER CONNECTION TO MICROWAVE. REFER TO ARCHITECTURAL ELEVATIONS FOR ADDITIONAL DETAILS.
7. PROVIDE POWER CONNECTION TO PHOTO COPIER MACHINE. COORDINATE FINAL LOCATION OF PHOTO COPIER MACHINE WITH ARCHITECTID AND OWNER PRIOR TO ROUGH-IN.
8. PROVIDE LOCKABLE DIE-CAST IN-USE ALUMINUM COVER. (TYPICAL FOR ALL EXTERIOR WPG RECEPTACLES)
   BOD: INTERMATIC WP1250MVXD
9. PROVIDE POWER CONNECTION TO BDA/DAS EQUIPMENT. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH OTHER TRADES PRIOR TO ROUGH-IN.
10. PROVIDE POWER CONNECTION TO PREACTION FIRE PROTECTION CABINET. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH FIRE PROTECTION CONTRACTOR PRIOR TO ROUGH-IN.
11. PROVIDE POWER CONNECTION TO AUTOMATIC FLUSH VALVE AND/OR AUTOMATIC FAUCET. WIRE TO NEAREST GENERAL RECEPTACLE CIRCUIT AHEAD OF ANY GFI RECEPTACLE IF CIRCUIT NUMBER IS NOT DESIGNATED. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
12. PROVIDE POWER CONNECTION TO DIGITAL DISPLAY WALL. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH EQUIPMENT MANUFACTURER AND OWNER PRIOR TO ROUGH-IN.
13. PROVIDE POWER CONNECTION TO FLAT SCREEN DISPLAY. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH AV CONTRACTOR AND OTHER TRADES PRIOR TO ROUGH-IN.
14. PROVIDE (8) DEDICATED DUPLEX RECEPTACLES ABOVE AV RACKS. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH AV CONTRACTOR PRIOR TO ROUGH-IN.
15. ALL EQUIPMENT GROUNDING REQUIREMENTS IN COMMS ROOMS 213 SHALL CONFORM TO R56 STANDARDS. EC SHALL OBTAIN THE LATEST FULL R56 GROUNDING SPECIFICATIONS FROM MOTOROLA PRIOR TO THE START OF ANY WORK. REFER TO SHEETS E6.04, E6.05 TO E6.06 FOR R56 DETAILS.



2ND FLOOR PLAN - POWER 1/8" = 1'-0" (1)

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SHEET TITLE

2ND FLOOR PLAN - ADMIN - POWER

SHEET NUMBER

E2.02

KEYNOTES:

1. PROVIDE EXTERNAL DISCONNECT SWITCH OF VAV. REFER TO EQUIPMENT SCHEDULE ON SHEET E7.05 FOR SIZES. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. (TYPICAL FOR ALL HEATING VAV'S)
2. PROVIDE POWER CONNECTION TO ELEVATOR CONTROLLER. ELEVATOR CONTROLLER LOCATED IN DOOR JAMB. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH ELEVATOR MANUFACTURER PRIOR TO ROUGH-IN.
3. PROVIDE POWER CONNECTION TO SHADE CONTROL SYSTEM. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH ARCHITECT/ID AND SHADE CONTROL MANUFACTURER PRIOR TO ROUGH-IN.
4. POWER FOR VAV W/O HEAT CONTROL IS FROM BAS/DDC CONTROL PANEL. REFER TO DETAIL #4 ON SHEET M7.01 FOR ADDITIONAL DETAILS. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
5. PROVIDE POWER CONNECTION TO HVLS CEILING FAN. PROVIDE ADDITIONAL CONDUITS AND BOXES TO CONTROL STATION LOCATION PER MECHANICAL DRAWINGS. COORDINATE FINAL CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.



2ND FLOOR PLAN - POWER MECHANICAL 1/8" = 1'-0" (1)

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PROJECT NUMBER
1007657.00

SHEET TITLE
2ND FLOOR PLAN - ADMIN - POWER MECHANICAL

SHEET NUMBER
E2.02M

KEYNOTES:

1. PROPOSED LOCATION FOR FIRE ALARM CONTROL PANEL. COORDINATE FINAL LOCATION WITH OWNER AND OTHER TRADES PRIOR TO ROUGH-IN.
2. PROPOSED LOCATION OF FIRE ALARM ANNUNCIATOR PANEL. COORDINATE FINAL LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
3. PROVIDE MULLION COVER TO CONCEAL CONDUIT TO PULL STATION. COORDINATE ADDITIONAL REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.
4. COORDINATE FINAL LOCATION OF KNOXBOX WITH ARCHITECT AND AHJ PRIOR TO ROUGH-IN.
5. PROVIDE FIRE ALARM CONNECTION TO FLOW AND TAMPER SWITCHES. COORDINATE ADDITIONAL REQUIREMENTS WITH FIRE PROTECTION CONTRACTOR PRIOR TO ROUGH-IN.
6. PROVIDE RELAY AT KITCHEN HOOD FOR ANSUL SYSTEM CONNECTION. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH HOOD MANUFACTURER PRIOR TO ROUGH-IN.
7. PROVIDE SHUT DOWN RELAY FOR GAS WATER HEATER. EPO BUTTON PROVIDED BY PLUMBING CONTRACTOR. REFER TO SHEET P2.01 FOR ADDITIONAL INFORMATION.
8. PROVIDE SHUT DOWN RELAY FOR GAS GRILL. EPO BUTTON PROVIDED BY PLUMBING CONTRACTOR. REFER TO SHEET P2.01 FOR ADDITIONAL INFORMATION.
9. APPROXIMATE LOCATION OF NG SOLENOIND VALVE. PROVIDE SHUTDOWN RELAY. REFER TO SHEET P2.01 FOR ADDITIONAL INFORMATION. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.

GENERAL FIRE ALARM NOTES:

1. ALL WALL-MOUNTED AUDIBLE & VISUAL SIGNALING APPLIANCES SHALL HAVE THEIR HEIGHTS ABOVE THE FINISHED FLOOR AT 80" PER FBC CHAPTER 11, ART 11.4.28.3. AREAS HAVING MORE THAN 2 STROBES IN THE FIELD OF VIEW SHALL BE SYNCHRONIZED PER NFPA 72, CH4-4.1.1(4)
2. DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER THE CONSTRUCTION CLEAN-UP OF ALL TRADES IS COMPLETE AND FINAL. DETECTORS THAT HAVE BEEN INSTALLED PRIOR TO FINAL CLEAN-UP BY ALL TRADES SHALL BE CLEANED OR REPLACED. CLEANING OR REPLACEMENT OF DEVICES THAT WERE MOUNTED AT THE REQUEST OF THE CONTRACTOR WILL NOT BE PERFORMED WITHOUT WRITTEN AUTHORIZATION THAT ASSUMES FINANCIAL RESPONSIBILITY FOR COSTS INCURRED.
3. ALL DEVICES IN THE ALARM SYSTEM SHALL BE COMPATIBLE AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
4. CENTER OF MANUAL PULL STATIONS SHALL BE MOUNTED AT 48" MAXIMUM ABOVE FLOOR LEVEL, PER FBC CHAPTER 11.
5. ALL EQUIPMENT SHALL BE U.L. LISTED.
6. ALL JUNCTION BOXES SHALL BE SIZED IN ACCORDANCE WITH THE N.E.C. AND SHALL HAVE THEIR COVERS PAINTED RED WHERE BOX IS INSTALLED BEHIND BUILDING FINISHES OR IN UNFINISHED SPACES..
7. ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS TO AREAS AND DEVICES THAT REQUIRE SERVICING, TROUBLE SHOOTING, ETC.
8. DO NOT DEVIATE FROM CONDUIT RUNS AS SHOWN ON SHOP DRAWINGS WITHOUT PRIOR APPROVAL FROM SYSTEM SUPPLIER. FACTORS SUCH AS EXCESSIVE VOLTAGE DROP, ADDITIONAL PARTS, ENGINEERING, ETC., THAT ARE A RESULT OF CONDUIT RUN DEVIATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
9. AREA DETECTORS SHALL NOT BE LOCATED IN A DIRECT AIR-FLOW, NOR CLOSER THAN 5 FEET FROM AN AIR SUPPLY DIFFUSER.
10. ALL FAN SHUTDOWN FUNCTIONS, DAMPER CLOSURES AND ASSOCIATED MECHANICAL SYSTEM FIRE ALARM INTERFACE SHALL BE BY MECHANICAL CONTRACTOR. FIRE ALARM CONTRACTOR WILL PROVIDE OPEN CONTACT ON ALARM WITHIN THREE FEET OF THE STARTER.
11. ALL CONDUITS ARE 3/4" UNLESS OTHERWISE NOTED.
12. ALL 120VAC POWER REQUIREMENTS FOR THE FIRE ALARM SYSTEM SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR AND SHALL MEET ALL REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
13. ALL FIRE ALARM DEVICE BACKBOXES, FIRE ALARM TERMINAL CABINETS, GUTTERS, JUNCTION BOXES AND ASSOCIATED CONDUITS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. REFER TO FIRE ALARM SYMBOL LIST AND/OR MOUNTING DETAILS FOR ADDITIONAL INFORMATION. SYSTEM SUPPLIER PROVIDED BACKBOXES SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
14. SMOKE DETECTOR TESTING SHALL BE IN ACCORDANCE WITH NFPA 72 SECTION 7.5.4.
15. ALL WIRING SHALL BE CUT FOR IN AND OUT. WIRING SHALL NOT BE LOOPED THROUGH DEVICES.
16. POINT AND COMMON ANNUNCIATION AND T-TAPPING ARE PROHIBITED. (T-TAPPING IS ALLOWABLE ON STYLE 4 SLC LOOPS WHERE TAPS ARE LOCATED IN METALLIC JUNCTION BOXES).
17. PROVIDE 3/4" CONDUIT FROM FIRE ALARM CONTROL PANEL TO TELEPHONE BACKBOARD AND WIRELESS DACT TRANSMITTER FOR OWNER PROVIDED CENTRAL STATION MONITORING VIA TELEPHONE LINES.
18. COORDINATE EXACT QUANTITY OF FLOW AND TAMPER SWITCHES WITH FIRE PROTECTION SHOP DRAWINGS PRIOR TO ROUGH-IN.
19. FA NOTIFICATION DEVICE SPACING IS SHOWN ONLY FOR DESIGN PURPOSES. FIRE ALARM CONTRACTOR SHALL LOCATE DEVICES BASED ON THE LISTED COVERAGE OF THE SELECTED DEVICE AND ADJUST FIRE ALARM SHOP DRAWINGS AS NEEDED.
20. PROVIDE BATTERY CALCULATIONS AND VOLTAGE DROP CALCULATIONS FOR AUTHORITY HAVING JURISDICTION (AHJ).
21. BUILDING IS FULLY SPRINKLERED, SO AREA DETECTION IS NOT PROVIDED IN STORAGE ROOMS. HOWEVER, THE DETECTORS HAVE BEEN PROVIDED IN LOCATIONS WHERE THERE WILL BE SPECIALTY EQUIPMENT/CHEMICALS STORED.



1ST FLOOR PLAN - FIRE ALARM 1/8" = 1'-0" (1)

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DRAWING HISTORY

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2121 AVENUE S.
RIVIERA BEACH, FL 33404

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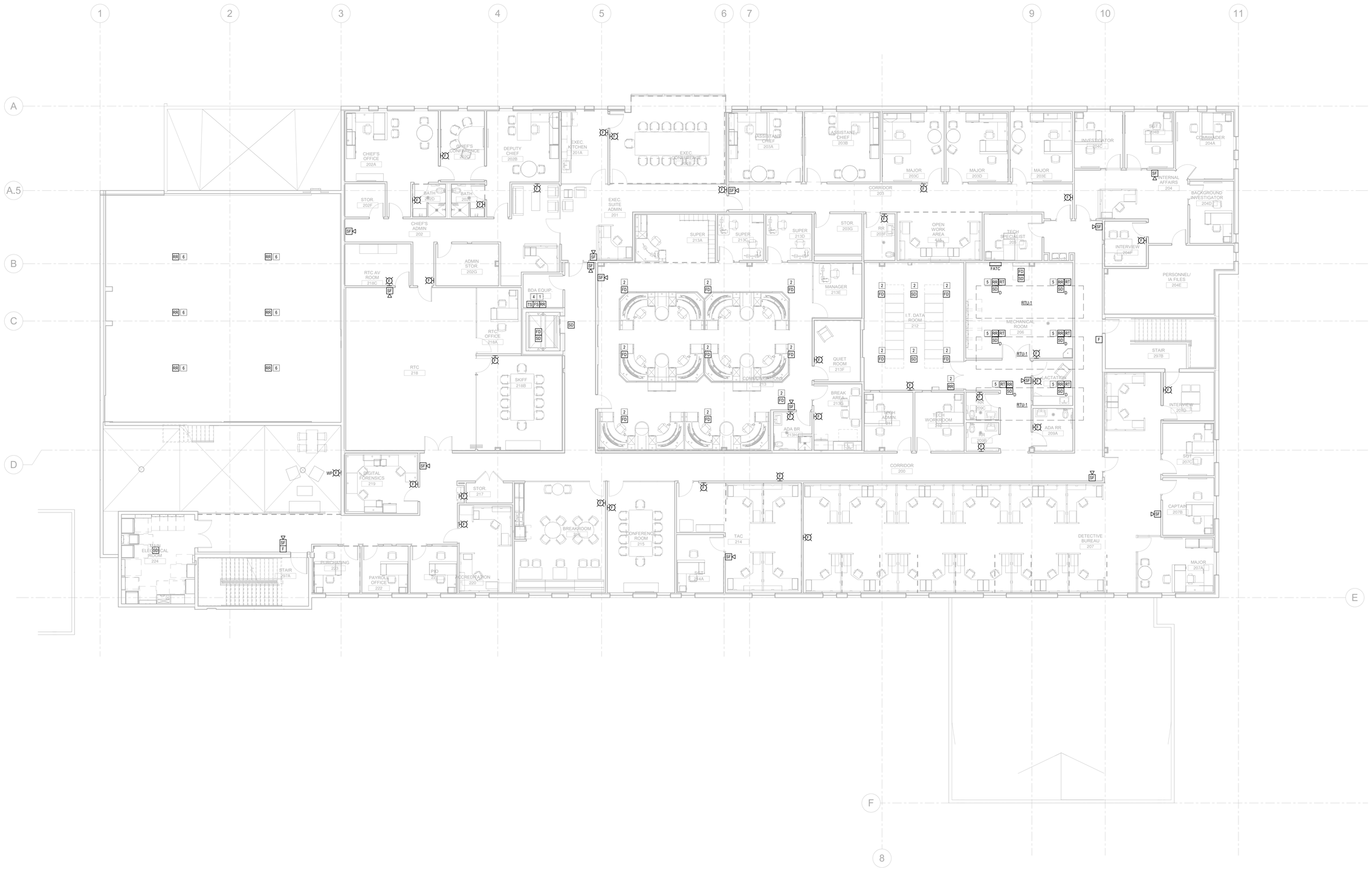
SHEET TITLE
1ST FLOOR PLAN - ADMIN - FIRE ALARM

SHEET NUMBER
E3.01

KEYNOTES:

1. PROVIDE FIRE ALARM CONNECTION TO PREACTION CABINET. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH FIRE PROTECTION CONTRACTOR PRIOR TO ROUGH-IN.
2. INTERLOCK SMOKE/HEAT DETECTOR WITH PREACTION CABINET AND FIRE ALARM CONTROL PANEL. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH FIRE PROTECTION CONTRACTOR PRIOR TO ROUGH-IN.
3. PROVIDE FIRE ALARM CONNECTION TO FIKE CONTROL PANEL. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH FIRE PROTECTION CONTRACTOR PRIOR TO ROUGH-IN.
4. PROVIDE FIRE ALARM CONNECTION TO FLOW AND TAMPER SWITCHES. COORDINATE ADDITIONAL REQUIREMENTS WITH FIRE PROTECTION CONTRACTOR PRIOR TO ROUGH-IN.
5. COORDINATE FINAL DUCT SMOKE DETECTOR, SHUTDOWN RELAYS, AND REMOTE TEST SWITCH LOCATION WITH OTHER TRADES PRIOR TO ROUGH-IN.
6. PROVIDE SHUTDOWN RELAY FOR HIGH VOLUME LOW SPEED CEILING FANS. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.



2ND FLOOR PLAN - FIRE ALARM 1/8" = 1'-0" (1)

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RIVIERA BEACH, FL
33404

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SHEET TITLE

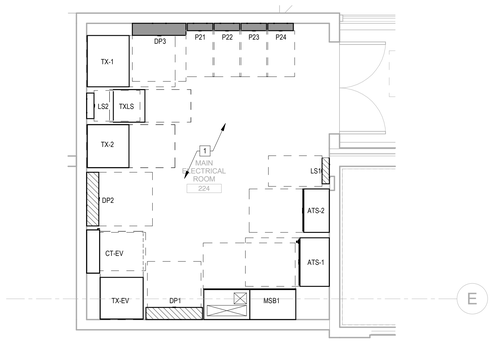
2ND FLOOR PLAN - ADMIN - FIRE ALARM

SHEET NUMBER

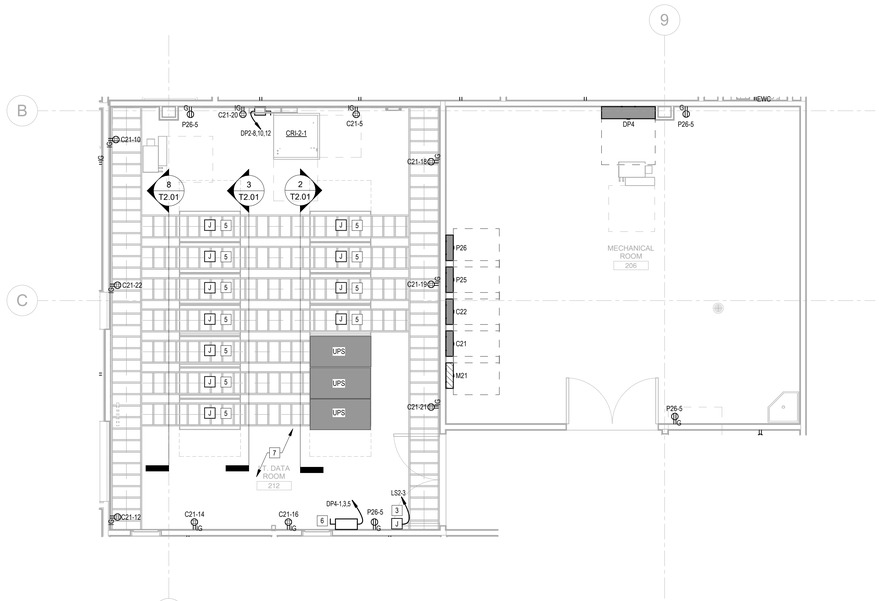
E3.02

KEYNOTES:

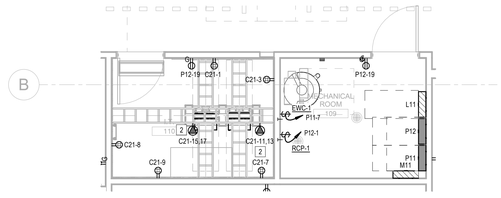
1. THE ELECTRICAL CONTRACTOR SHALL SUBMIT A SHOP DRAWING OF DEPICTING THE LOCATION OF ALL ELECTRICAL SWITCHGEAR/EQUIPMENT SHOWING THAT CODE REQUIRED CLEARANCES ARE MAINTAINED.
2. PROVIDE L6-30R RECEPTACLE ABOVE DATA CABINET/RACK. MOUNT RECEPTACLE TO LADDER RACK OR PROVIDE UNISTRUT FOR MOUNTING OF RECEPTACLE. COORDINATE FINAL CONNECTION REQUIREMENTS WITH CITY OF RIVIERA BEACH I.T. TEAM PRIOR TO ROUGH-IN.
3. PROVIDE POWER CONNECTION TO FIKE CONTROL PANEL. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH FIRE PROTECTION REQUIREMENTS PRIOR TO ROUGH-IN.
4. MOUNT TRANSFROMER TO STRUCTURE OR SUSPEND FROM STRUCTURE. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH MANUFACTURER AND STRUCTURAL ENGINEER PRIOR TO ROUGH-IN.
5. DATA CABINET DIRECTLY HARDWIRED TO RACK BASED UPS SYSTEM. PROVIDE CONDUIT AND BOXES AS REQUIRED. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH UPS MANUFACTURER AND RBPD IT DEPARTMENT PRIOR TO THE START OF ANY WORK.
6. PROPOSED LOCATION OF 40KW UPS DISCONNECT SWITCH. COORDINATE FINAL LOCATION WITH UPS MANUFACTURER AND RBPD IT DEPARTMENT PRIOR TO THE START OF ANY WORK.
7. ALL EQUIPMENT GROUNDING REQUIREMENTS IN I.T. DATA ROOM 212 SHALL CONFORM TO R56 STANDARDS. EC SHALL OBTAIN THE LATEST FULL R56 GROUNDING SPECIFICATIONS FROM MOTOROLA PRIOR TO THE START OF ANY WORK. REFER TO SHEETS E6.04, E6.05 TO E6.06 FOR R56 DETAILS.



1 ENLARGED MAIN ELECTRICAL ROOM
1/4" = 1'-0"



2 ENLARGED MECHANICAL AND DATA ROOMS
1/4" = 1'-0"



3 ENLARGED MECHANICAL AND IT ROOMS
1/4" = 1'-0"

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RIVIERA BEACH, FL
33404

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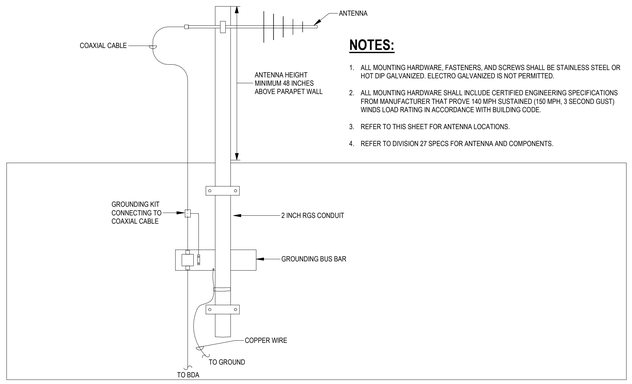
1007657.00

SHEET TITLE

ENLARGED PLANS - ELECTRICAL

SHEET NUMBER

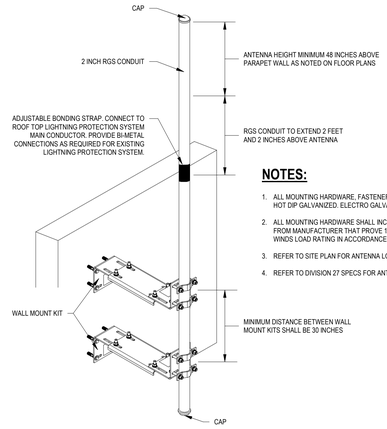
E4.01



NOTES:

1. ALL MOUNTING HARDWARE, FASTENERS, AND SCREWS SHALL BE STAINLESS STEEL OR HOT DIP GALVANIZED. ELECTRO GALVANIZED IS NOT PERMITTED.
2. ALL MOUNTING HARDWARE SHALL INCLUDE CERTIFIED ENGINEERING SPECIFICATIONS FROM MANUFACTURER THAT PROVE 140 MPH SUSTAINED (150 MPH, 3 SECOND GUST) WINDS LOAD RATING IN ACCORDANCE WITH BUILDING CODE.
3. REFER TO THIS SHEET FOR ANTENNA LOCATIONS.
4. REFER TO DIVISION 27 SPECS FOR ANTENNA AND COMPONENTS.

2 TYPICAL 400/700-800 MHZ ANTENNA - EXTERIOR - WALL MOUNTED
NTS



NOTES:

1. ALL MOUNTING HARDWARE, FASTENERS, AND SCREWS SHALL BE STAINLESS STEEL OR HOT DIP GALVANIZED. ELECTRO GALVANIZED IS NOT PERMITTED.
2. ALL MOUNTING HARDWARE SHALL INCLUDE CERTIFIED ENGINEERING SPECIFICATIONS FROM MANUFACTURER THAT PROVE 140 MPH SUSTAINED (150 MPH, 3 SECOND GUST) WINDS LOAD RATING IN ACCORDANCE WITH BUILDING CODE.
3. REFER TO SITE PLAN FOR ANTENNA LOCATIONS.
4. REFER TO DIVISION 27 SPECS FOR ANTENNA AND COMPONENTS.

1 TYPICAL 400/700-800 MHZ ANTENNA - EXTERIOR - WALL MOUNTED
NTS

LIGHTNING PROTECTION SYSTEM

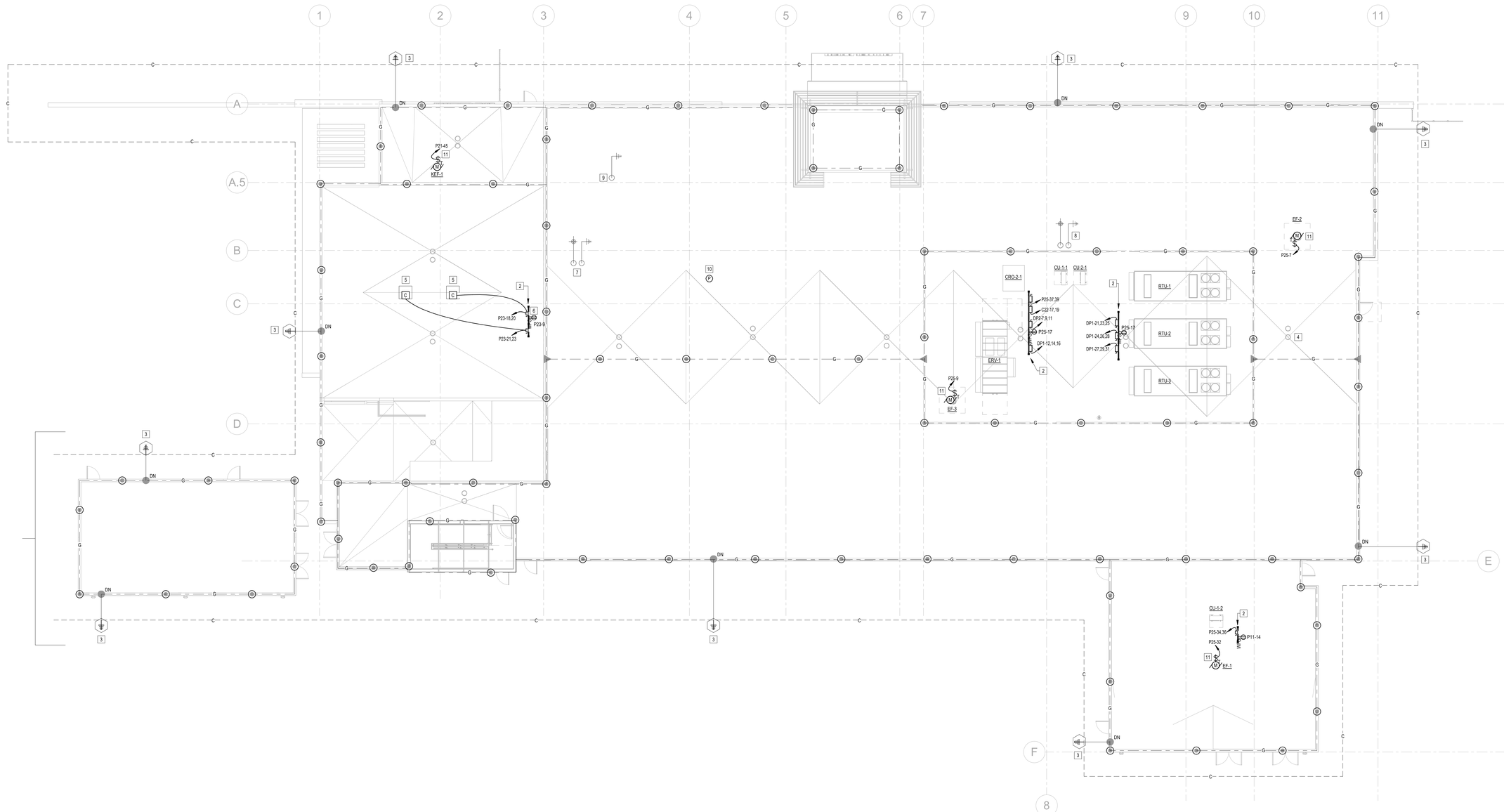
- C — COUNTERPOISE CONDUCTOR - CABLE SIZED PER NFPA 780
- G — MAIN L.P. CONDUCTOR - CABLE SIZED PER NFPA 780
- B — BONDING CONDUCTOR - CABLE SIZED PER NFPA 780
- AIR TERMINAL
  * (A) FLAT SURFACE BASE
  (B) FLAT WALL MOUNTED PARAPET
  (C) SWIVEL BASE
  (D) RIDGE SADDLE BASE (EXPOSED)
  (E) RIDGE SADDLE BASE (CONCEALED)
  (F) CONCEALED AIR TERMINAL BASE ASSEMBLY
- MECHANICAL OR EXOTHERMIC BOND
- EXOTHERMIC TEE CONNECTION
- DN — DOWN CONDUCTOR LOCATION

KEYNOTES:

1. EXTEND COUNTERPOISE SYSTEM TO GUN RANGE BUILDING.
2. PROVIDE UNISTRUT FRAME FOR MOUNTING OF ELECTRICAL EQUIPMENT TO SERVE ROOF MOUNTED EQUIPMENT. COORDINATE FINAL LOCATION WITH OTHER TRADES AND ROOFING CONTRACTOR PRIOR TO ROUGH-IN.
3. PROVIDE GROUND INSPECTION WELL.
4. BOND TO ALL MECHANICAL EQUIPMENT, DRAINS...ETC LOCATED ON ROOF. (TYPICAL)
5. PROVIDE POWER CONNECTION TO DRONE DOCKING STATION. COORDINATE FINAL CONNECTION REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN. MAINTAIN MANUFACTURER RECOMMENDED CLEARANCES TO ANY ROOF MOUNTED ELECTRICAL EQUIPMENT.
6. PROVIDE LOCKABLE DIE-CAST IN-USE ALUMINUM COVER. (TYPICAL FOR ALL EXTERIOR WPG RECEPTACLES)
   BOD: INTERMATIC WP1250MWXD
7. PROVIDE (2) 2" RGS CONDUITS WITH WEATHER HEADS FOR BDA SYSTEM ANTENNAS. COORDINATE FINAL LOCATION WITH OTHER TRADES AND ROOFING CONTRACTOR PRIOR TO ROUGH-IN. TERMINATE CONDUIT IN BDA EQUIPMENT ROOM 225.
8. PROVIDE (2) 2" RGS CONDUITS WITH WEATHER HEADS FOR MOTOROLA RADIO SYSTEM ANTENNAS. COORDINATE FINAL LOCATION WITH OTHER TRADES AND ROOFING CONTRACTOR PRIOR TO ROUGH-IN. TERMINATE CONDUIT IN IT DATA ROOM 212.
9. PROVIDE (1) 2" RGS CONDUIT WITH WEATHER HEAD FOR DRONE SYSTEM ANTENNA TOWER. COORDINATE FINAL LOCATION WITH OTHER TRADES AND ROOFING CONTRACTOR PRIOR TO ROUGH-IN. TERMINATE CONDUIT IN IT DATA ROOM 212.
10. COORDINATE FINAL LOCATION OF LIGHTING PHOTOCELL ON ROOF WITH OTHER TRADES PRIOR TO ROUGH-IN.
11. PROVIDE POWER CONNECTION TO EXHAUST FAN. DISCONNECT SWITCH PROVIDED BY MECHANICAL CONTRACTOR. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

GENERAL NOTES:

1. PROVIDE A COMPLETE LIGHTNING PROTECTION SYSTEM PER CURRENT NFPA 780 AND UL96A STANDARDS.
2. THIS LIGHTNING PROTECTION DRAWING IS FOR DIAGRAMMATIC PURPOSES ONLY. SHOP DRAWINGS ISSUED BY A CERTIFIED LIGHTNING PROTECTION CONTRACTOR SHALL BE USED FOR BIDDING PURPOSES AND SHALL TAKE PRECEDENCE.
3. THE COMPLETED INSTALLATION SHALL MEET THE INSTALLATION REQUIREMENTS FOR LIGHTNING PROTECTION SYSTEMS, UL96A OF UNDERWRITERS LABORATORIES - LATEST EDITION. THE UL MASTER LABEL SHALL BE FURNISHED TO THE OWNER UPON COMPLETION.
4. COPPER LIGHTNING PROTECTION SYSTEM COMPONENTS SHALL NOT BE MOUNTED ON ALUMINUM ROOF OR SIDING OR OTHER ALUMINUM SURFACES AND VICE VERSA.
5. METAL BODIES WITHIN 6'-0" OF THE LIGHTNING PROTECTION SYSTEM SHALL BE BONDED TO THE SYSTEM IN ACCORDANCE WITH UL96A - LATEST EDITION.
6. UNDERGROUND METALLIC PIPING ENTERING THE BUILDING SHALL BE BONDED TO THE NEAREST DOWN CONDUCTOR OR GROUND ELECTRODE.
7. ADHESIVE USED WITH ADHESIVE AIR TERMINAL BASES AND CONDUCTOR FASTENERS SHALL BE COMPATIBLE WITH ROOFING MEMBRANE - VERIFY WITH ROOFING CONTRACTOR.
8. ROOF TOP EQUIPMENT NOT SHOWN ON THIS DRAWING SHALL BE PROTECTED AS REQUIRED TO MEET THE REQUIREMENTS LISTED ABOVE INCLUDING THE INSTALLATION OF AIR TERMINALS AND OR BONDING. IF THE METAL THICKNESS OF AN OBJECT IS 3/16" OR GREATER, AIR TERMINALS MAY BE ELIMINATED IF THE OBJECT IS PROPERLY CONNECTED TO THE SYSTEM.
9. THE DESIGNS SHOWN FOR THESE SYSTEMS ARE SCHEMATIC AND ARE INTENDED TO SHOW BASIC SYSTEM DESIGN. CONTRACTOR SHALL VERIFY DIMENSIONS AND SITE CONDITIONS AND PROVIDE SYSTEMS THAT COMPLY WITH CODE REQUIREMENTS.
10. ALL LIGHTNING CONDUCTORS ARE TO MAINTAIN A HORIZONTAL OR DOWNWARD PATH. ALL BENDS IN THE CONDUCTOR SHALL HAVE A RADIUS BEND OF 8" OR GREATER, AND SHALL HAVE AN ANGLE BEND OF 90 DEGREES OR GREATER.
11. ALL LIGHTNING PROTECTION CONDUCTORS SHALL BE FASTENED NOT MORE THAN 3' MAXIMUM SPACING.
12. COORDINATE ROOF PENETRATIONS WITH ROOFING CONTRACTOR TO MAINTAIN ROOFING SYSTEM INTEGRITY AND WARRANTY.



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SHEET TITLE
ROOF PLAN - ELECTRICAL

SHEET NUMBER
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ROOF PLAN - ELECTRICAL | 1" = 10'-0" 43

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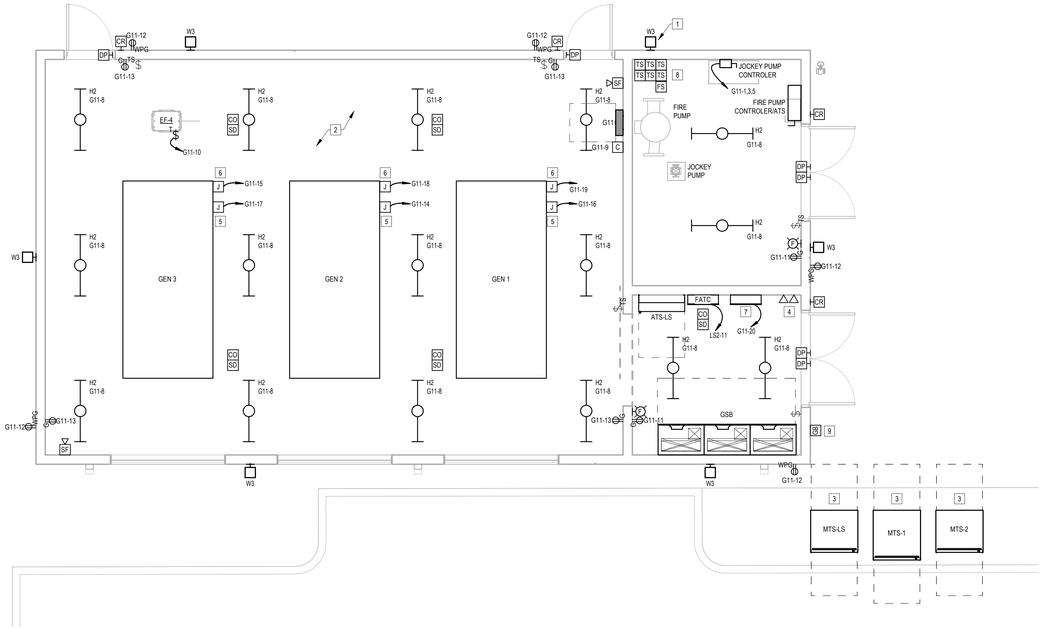
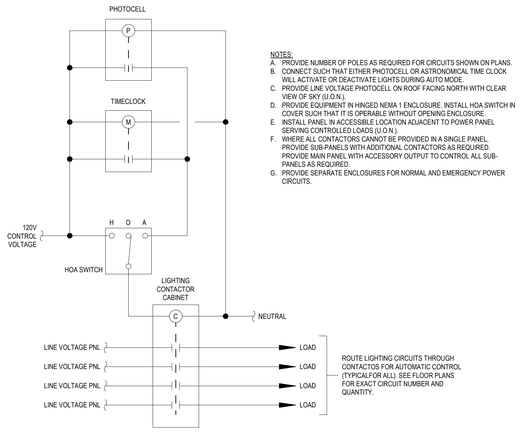


GENERATOR BUILDING FLOOR PLAN - ELECTRICAL 1/4" = 1'-0" (1)

KEYNOTES:

1. EXTERIOR LIGHTING CONTROLLED VIA TIMECLOCK PHOTOCELL COMBINATION. REFER TO DETAIL ON1 THIS SHEET FOR ADDITIONAL INFORMATION. (TYPICAL)
2. COORDINATE FINAL LIGHTING LAYOUT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. LUMINAIRES SHALL NOT BE INSTALLED WITHIN 2'-0" OF GENERATOR HEATING OR EXHAUST ELEMENTS. (TYPICAL)
3. COORDINATE FINAL LOCATION OF MANUAL TRANSFER SWITCHES WITH OTHER TRADES PRIOR TO THE START OF ANY UNDERGROUND WORK.
4. PROPOSED LOCATION FOR INCOMING LOW VOLTAGE DATA CONDUITS.. COORDINATE FINAL LOCATION WITH OTHER TRADES PRIOR TO ROUGH-IN.
5. PROVIDE POWER CONNECTION TO JACKET HEATER. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH GENERATOR MANUFACTURER PRIOR TO ROUGH-IN.
6. PROVIDE POWER CONNECTION TO BATTERY CHARGER. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH GENERATOR MANUFACTURER PRIOR TO ROUGH-IN.
7. PROPOSED LOCATION FOR GENSET CONTROLLER. COORDINATE FINAL LOCATION WITH GENSET MANUFACTURE AND OTHER TRADES PRIOR TO ROUGH-IN.
8. PROVIDE FIRE ALARM CONNECTION TO FLOW AND TAMPER SWITCHES. COORDINATE ADDITIONAL REQUIREMENTS WITH FIRE PROTECTION CONTRACTOR PRIOR TO ROUGH-IN.
9. PROVIDE EMERGENCY GLASS BREAK BUTTON FOR SHUT-OFF OF GENSETS. COORDINATE FINAL LOCATION WITH AHJ PRIOR TO ROUGH-IN.
10. PROPOSED LOCATION OF GENERATOR PARALLELING CONTROLLER. COORDINATE FINAL LOCATION WITH END USER AND OTHER TRADES PRIOR TO ROUGH-IN.



NOTES:
A. PROVIDE NUMBER OF POLES AS REQUIRED FOR CIRCUITS SHOWN ON PLANS.
B. CONNECT SUCH THAT EITHER PHOTOCELL OR ASTRONOMICAL TIME CLOCK WILL ACTIVATE OR DEACTIVATE LIGHTS DURING AUTO MODE.
C. PROVIDE LINE VOLTAGE PHOTOCELL ON ROOF FACING NORTH WITH CLEAR VIEW OF SKY (U.O.N.).
D. PROVIDE EQUIPMENT IN HINGED NEMA 1 ENCLOSURE. INSTALL HOA SWITCH IN COVER SUCH THAT IT IS OPERABLE WITHOUT OPENING ENCLOSURE.
E. INSTALL PANEL IN ACCESSIBLE LOCATION ADJACENT TO POWER PANEL SERVING CONTROLLED LOADS (U.O.N.).
F. WHERE ALL CONTACTORS CANNOT BE PROVIDED IN A SINGLE PANEL, PROVIDE SUB-PANELS WITH ADDITIONAL CONTACTORS AS REQUIRED. PROVIDE MAIN PANEL WITH ACCESSORY OUTPUT TO CONTROL ALL SUB-PANELS AS REQUIRED.
G. PROVIDE SEPARATE ENCLOSURES FOR NORMAL AND EMERGENCY POWER CIRCUITS.

EXTERIOR LIGHTING CONTROL SCHEMATIC (2)
NTS

Switchboard: GSB

LOCATION: EMERGENCY SWITCH BOARD 150A
SUPPLY FROM:
MOUNTING: Floor
ENCLOSURE: NEMA 1
VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4
A.I.C. RATING: 65kA
MAINS TYPE:
MAINS RATING: 2000 A
MCB RATING: 0 A

CKT	CICUIT DESCRIPTION	POLES	FRAME SIZE	TRIP RATING	Ø	N	G	C.	Load	NOTES
1	MAIN GEN 1	3	800 A	800 A					0 kVA	
2	MAIN GEN 2	3	800 A	800 A					0 kVA	
3	MAIN GEN 3	3	800 A	800 A					0 kVA	
4	ATS-1	3	1200 A	1200 A					781.42 kVA	
5	ATS-2	3	600 A	600 A					101.21 kVA	
6	FIRE PUMP	3	125 A	125 A					79.78 kVA	
7	ATS-LS VIA MTS-LS	3	125 A	100 A					20.71 kVA	
8										
9										
10										
11										
12										
								TOTAL CONN. LOAD:	983.12 kVA	
								TOTAL CONN. AMPS:	1183 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	224.12 kVA	100.00%	224.12 kVA		
Lighting	42.68 kVA	125.00%	53.35 kVA	Total Conn. Load:	983.12 kVA
Motor	140.33 kVA	114.21%	160.28 kVA	Total Est. Demand:	917.1 kVA
Heating	236.5 kVA	100.00%	236.5 kVA	Total Conn. Current:	1183 A
Receptacle	203.28 kVA	52.46%	106.64 kVA	Total Est. Demand Current:	1103 A
Elevator	41.55 kVA	100.00%	41.55 kVA		
Equipment	94.66 kVA	100.00%	94.66 kVA		

NOTE LEGEND:

G = GFCI TYPE BREAKER
A = AFCI TYPE BREAKER
ST = SHUNT TRIP BREAKER
RL = RED, LOCKABLE BREAKER
E = EXISTING BREAKER
LSI = LSI ADJUSTABLE TRIP BREAKER

- U.N.O. ALL SINGLE POLE 15 & 20 AMP CIRCUITS SHALL BE PROVIDED WITH #12AWG CU CONDUCTORS (H,N,G) IN 3/4" CONDUIT.
- PROVIDE GROUND BUS & NEUTRAL BUS.
- PROVIDE TYPE WRITTEN DIRECTORY.

Branch Panel: G11

LOCATION: GENERATOR BUILDING 150
SUPPLY FROM: DP3
MOUNTING: Surface
ENCLOSURE: TYPE 1
VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4
A.I.C. RATING: 22kA
MAINS TYPE: MCB
MAINS RATING: 100 A
MCB RATING: 100 A

C...	NOT...	CIRCUIT DESCRIPTION	TRIP	P	Ø	N	G	C.	A	B	C	C.	G	N	Ø	P	TRIP	CIRCUIT DESCRIPTION	NOT...	C...
1		JOCKEY PUMP	15 A	3					0.58	0		--	--	--	--	3	30 A	SPD	--	2
3	--	--	--	--	--	--	--	--			0.58	0	--	--	--	--	--	--	--	4
5	--	--	--	--	--	--	--	--					0.58	0	--	--	--	--	--	6
7		WALL PACK LIGHTING	20 A	1					0.12	0.48						1	20 A	LIGHTING		8
9		LIGHTING CONTACTOR.	20 A	1							0.2	1.18				1	20 A	EF-4		10
11		RECEPT.	20 A	1									0.36	0.9		1	20 A	EXTERIOR RECEPT.		12
13		RECEPT.	20 A	1					0.72	0.5						1	20 A	GEN 2 HEATER		14
15		GEN 3 BATT CHARGER	20 A	1							0.5	0.5				1	20 A	GEN 1 HEATER		16
17		GEN 3 HEATER	20 A	1									0.5	0.5		1	20 A	GEN 2 BATT CHARGER		18
19		GEN 1 BATT CHARGER	20 A	1					0.5	0.5						1	20 A	GENSET CONTROLLER		20
21	--	SPARE	20 A	1	--	--	--	--			0	0				1	20 A	SPARE	--	22
23	--	SPARE	20 A	1	--	--	--	--					0	0		1	20 A	SPARE	--	24
25	--	SPARE	20 A	1	--	--	--	--	0	0						1	20 A	SPARE	--	26
27	--	SPARE	20 A	1	--	--	--	--			0	0				1	20 A	SPARE	--	28
29	--	SPARE	20 A	1	--	--	--	--					0	0		1	20 A	SPARE	--	30
								Total Load:	3.4 kVA		2.96 kVA		2.84 kVA						
								Total Amps:	28 A		25 A		24 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	3.7 kVA	100.00%	3.7 kVA		
Motor	2.91 kVA	114.86%	3.34 kVA	Total Conn. Load:	9.19 kVA
Receptacle	1.98 kVA	100.00%	1.98 kVA	Total Est. Demand:	9.77 kVA
Lighting	0.6 kVA	125.00%	0.75 kVA	Total Conn.:	26 A
				Total Est. Demand:	27 A

NOTE LEGEND:

*** REFER TO POWER RISER FOR FEEDER WIRE AND CONDUIT SIZES.**

G = GFCI TYPE BREAKER
A = AFCI TYPE BREAKER
ST = SHUNT TRIP BREAKER
RL = RED, LOCKABLE BREAKER
E = EXISTING BREAKER
LSI = LSI ADJUSTABLE TRIP BREAKER

- ALL SINGLE POLE 15 & 20 AMP CIRCUITS SHALL BE PROVIDED WITH (2) #12 AWG CU, #12 CU GND IN 3/4" C. UNLESS NOTED OTHERWISE.
- PROVIDE GROUND BUS & NEUTRAL BUS.
- PROVIDE TYPE WRITTEN DIRECTORY.
- PANEL SHALL BE FULLY RATED.
- FOR MULTIPHASE CIRCUITS, CONTRACTOR SHALL PROVIDE A PHASE CONDUCTOR FOR EACH POLE....

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DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

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PROJECT STATUS

90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER

1007657.00

SHEET TITLE

GENERATOR BUILDING FLOOR PLAN - ELECTRICAL

SHEET NUMBER

E4.03

DRY-TYPE TRANSFORMER SCHEDULE

	480V/3-3ϕ-3W			208Y/120V-3ϕ-4W			
MK.	LOAD	OCPD	FEEDER	LOAD	OCPD	FEEDER	GND
A	30kVA/36A	50A	(3) #8 AWG CU, (1) #10 CU GND, 3/4"C.	30kVA/80A	100A	(4) #3 AWG CU, (1) #8 CU GND, 1-1/4"C.	#8 CU, 3/4" PVC
B	150kVA/180A	225A	(3) #300 KCMIL AL, (1) #2 AL GND, 3"C.	150kVA/415A	600A	(3) SETS OF (4) #250 KCMIL AL, (1) #4/0 AL GND, 3"C.	#4/0 AL, 1" PVC
C	225kVA/270A	350A	(2) SETS OF (3) #4/0 KCMIL AL, (1) #1 AL GND, 2-1/2"C.	225kVA/625A	800A	(3) SETS OF (4) #400 KCMIL AL, (1) #250 AL GND, 3-1/2"C.	#250 AL, 1" PVC

GENERAL NOTES:

1. ANY TRANSFORMER WIRE SIZES LISTED ON THE ONE-LINE DIAGRAM SHALL TAKE PRECEDENCE.
2. SECONDARY OVERCURRENT PROTECTION SHALL BE LOCATED WITHIN TEN FEET OF THE TRANSFORMER SECONDARY TERMINALS.
3. 500 KCMIL AND LARGER CONDUCTORS SHALL BE COORDINATED WITH PROPER TERMINATION LUGS OR PROVIDED WITH ADAPTERS AS REQUIRED TO COORDINATE WITH STANDARD BREAKER LUG SIZES.
4. THE TRANSFORMER GROUNDING ELECTRODE CONDUCTOR SHALL CONNECT FROM THE TRANSFORMER NEUTRAL AND TRANSFORMER EQUIPMENT GROUND TO THE COLD WATER LINE, BUILDING STEEL, REBAR AND GROUND ROD WHERE AVAILABLE PER NEC AND LOCAL AUTHORITY HAVING JURISDICTION.
5. TRANSFORMER SYSTEM BONDING JUMPER RUN FROM TRANSFORMER NEUTRAL TO PANEL GROUND BAR SHALL BE SIZED PER TABLE 250-66 BASED ON FEEDER CONDUCTOR SIZE PER NEC 250.30(A) (1) & 250.28 (D).
6. ALL FLOOR MOUNTED TRANSFORMERS SHALL BE PROVIDED WITH A 4" CONCRETE HOUSE KEEPING PAD.
7. PROVIDE PERMANENT PLACARD/MARKING ON ALL TRANSFORMERS STATING IDENTIFICATION OF CIRCUIT AND SOURCE WITH LOCATION OF DISCONNECTING MEANS PER 110.22(A).

FEEDER SCHEDULE

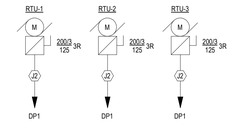
MARK	OCPD	CONDUCTOR SIZE	RACEWAY
A	1600A	(6) SETS OF (4) #400 KCMIL AL.	4" EA.
B	1200A	(4) SETS OF (4) #500 KCMIL AL, (1) #250 AL GND.	4" EA.
C	800A	(3) SETS OF (4) #400 KCMIL AL, (1) #250 AL GND.	3-1/2" EA.
D	600A	(3) SETS OF (4) #250 KCMIL AL, (1) #2/0 AL GND.	3" EA.
F	400A	(2) SETS OF (4) #250 KCMIL AL, (1) #1 AL GND.	3" EA.
G	250A	(2) SETS OF (4) #2/0 AWG AL, (1) #2 AL GND.	2" EA.
H	225A	(2) SETS OF (4) #1/0 AWG AL, (1) #2 AL GND.	2" EA.
H2	225A	(2) SETS OF (4) #1/0 AWG AL, (1) #2 AL GND, (1) #2 AL IG GND.	2" EA.
J1	125A	(4) #2/0 AWG AL, (1) #4 AL GND.	2" C.
J2	125A	(3) #2/0 AWG AL, (1) #4 AL GND.	2" C.
J3	125A	(4) #2/0 AWG AL.	2" C.
J4	125A	(4) #2/0 AWG AL, (1) #4 AL GND.	2" C.
K1	100A	(4) #1 AWG AL.	1-1/2" C.
K2	100A	(4) #1 AWG AL, (1) #6 AL GND.	1-1/2" C.
L	80A	(3) #4 AWG CU, (1) #4 CU GND.	1-1/4" C.
M	150A	(4) #3/0 AWG AL, (1) #4 AL GND.	2-1/2" C.

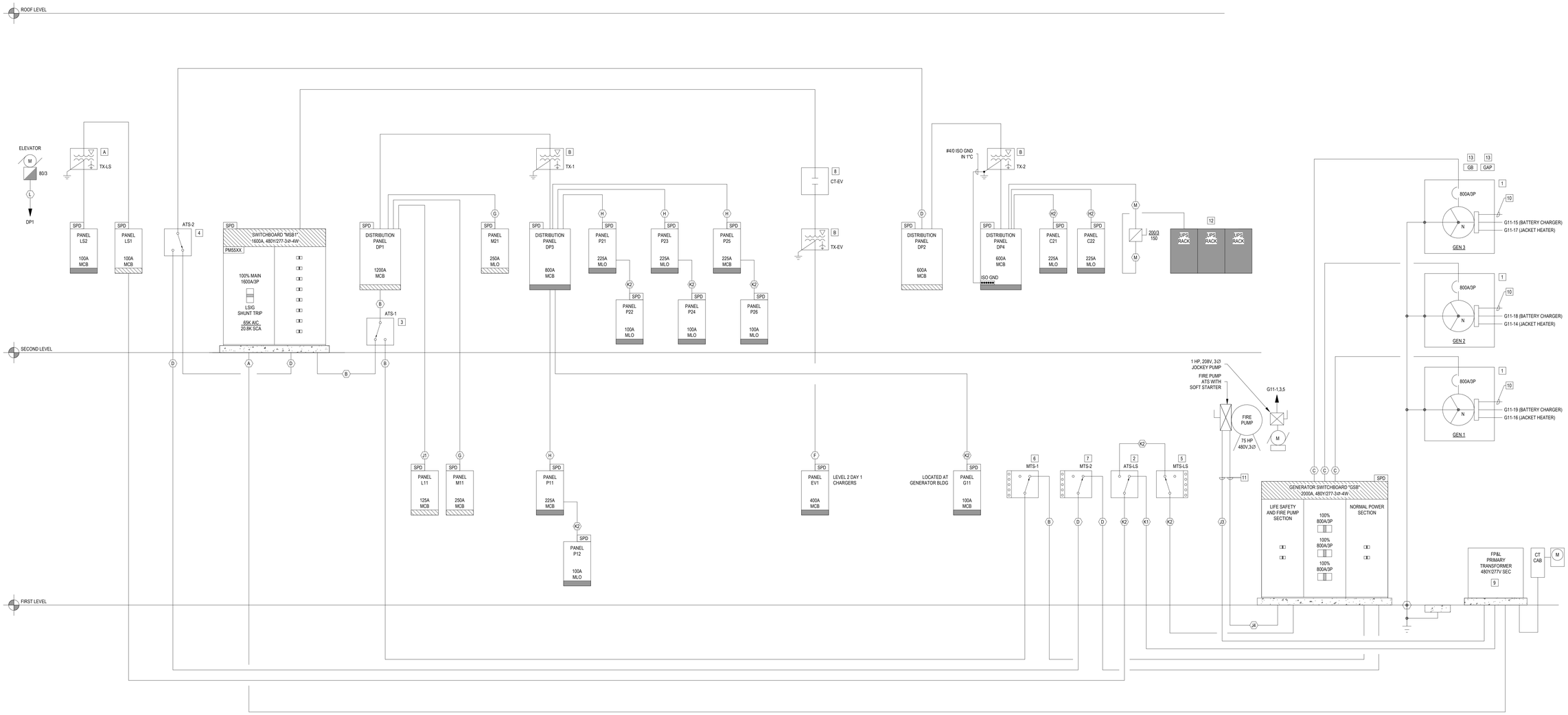
KEYNOTES:

1. EMERGENCY GENERATOR CAPABLE OF ACCEPTING FULL LOAD WITHIN 10 SECONDS - NFPA 37, 70, 110 COMPLIANT - 500kW, 480/277V, 3 PHASE, 4 WIRE, SEPARATELY DERIVED (PER NEC), NATURAL GAS GENERATOR WITH GROUNDED NEUTRAL, BMS MONITORING CAPABILITIES (BACnet TCP/IP), GENERATORS SHALL INCLUDE LSI BREAKERS AND GROUND FAULT SENSING RELAYS AND CONTACTORS. PROVIDE HVHZ - SOUND ATTENUATED LEVEL 2 WEATHER PROOF ALUMINUM ENCLOSURE AND WITH 4" HOUSE KEEPING PAD. PROVIDE WITH MODBUS TO BACnet CONVERSION PROTOCOLS.
   BASIS OF DESIGN: GENERAC MG500
2. NFPA 70 ARTICLE 701 SERVICE ENTRANCE ATS, UL 1008 LISTED, NFPA 110 COMPLIANT, 4 POLE, 100A, TYPE 1 ENCLOSURE, 480V, 65KAIC, PRE-SIGNAL DISCONNECT CONTACTS, 120VAC SHUNT TRIP, LOAD SHED RELAY. COMM MODULE FOR BACnet TCP/IP COMMUNICATION CAPABILITY WITH BMS. AUTOMATIC TRANSFER SWITCH SERVING EMERGENCY LOADS SHALL HAVE HIGHEST PRIORITY AND SHALL TRANSFER EMERGENCY LOADS TO THE GENERATOR WITHIN 10 SECONDS.
   BASIS OF DESIGN: ASCO 300 SERIES ATS
3. NFPA 70 ARTICLE 702 ATS, UL 1008 LISTED, NFPA 110 COMPLIANT, 4 POLE, 1200A, TYPE 1 ENCLOSURE, 480V, 65KAIC, WITH ENERGY REDUCTION MAINTENANCE SWITCH PER NEC 240.87 ARC FLASH MITIGATION, PRE-SIGNAL DISCONNECT CONTACTS, 120VAC SHUNT TRIP, LOAD SHED RELAY, COMM MODULE FOR BACnet TCP/IP COMMUNICATION CAPABILITY WITH BMS. AUTOMATIC TRANSFER SWITCH SERVING OPTIONAL STAND-BY LOADS SHALL TRANSFER OPTIONAL STAND-BY LOADS TO THE GENERATOR ON A TIME DELAYED BASIS, AFTER THE EMERGENCY LOADS HAVE BEEN TRANSFERRED.
   BASIS OF DESIGN: ASCO 300 SERIES ATS
4. NFPA 70 ARTICLE 702 ATS, UL 1008 LISTED, NFPA 110 COMPLIANT, 4 POLE, 600A, TYPE 1 ENCLOSURE, 480V, 65KAIC, WITH ENERGY REDUCTION MAINTENANCE SWITCH PER NEC 240.87 ARC FLASH MITIGATION, PRE-SIGNAL DISCONNECT CONTACTS, 120VAC SHUNT TRIP, LOAD SHED RELAY, COMM MODULE FOR BACnet TCP/IP COMMUNICATION CAPABILITY WITH BMS. AUTOMATIC TRANSFER SWITCH SERVING OPTIONAL STAND-BY LOADS SHALL TRANSFER OPTIONAL STAND-BY LOADS TO THE GENERATOR ON A TIME DELAYED BASIS, AFTER THE EMERGENCY LOADS HAVE BEEN TRANSFERRED.
   BASIS OF DESIGN: ASCO 300 SERIES ATS
5. PROVIDE 100A NEMA 3R RATED MANUAL TRANSFER SWITCH WITH QUICK CONNECTS TO SERVE LIFE SAFETY LOADS AS REQUIRED BY NFPA 70 - 700.3(F). PROVIDE WITH 6" HOUSE KEEPING PAD.
   BASIS OF DESIGN: ASCO 300 SERIES MTS
6. PROVIDE 1200A NEMA 3R RATED MANUAL TRANSFER SWITCH WITH QUICK CONNECTS TO SERVE OPTIONAL LOADS. PROVIDE WITH 6" HOUSE KEEPING PAD.
   BASIS OF DESIGN: ASCO 300 SERIES MTS
7. PROVIDE 600A NEMA 3R RATED MANUAL TRANSFER SWITCH WITH QUICK CONNECTS TO SERVE COMMUNICATION LOADS. PROVIDE WITH 6" HOUSE KEEPING PAD.
   BASIS OF DESIGN: ASCO 300 SERIES MTS
8. PROVIDE 400A/3P/4W WIRE CONTACTOR. CONTACTOR SHALL OPEN DURING GENERATOR EVENT DISCONNECTING CAR CHARGING PANEL 'EV1' FROM BUILDING DISTRIBUTION SYSTEM. WHEN NORMAL POWER RETURNS, CONTACTOR SHALL CLOSE ENERGIZING CAR CHARGING PANEL 'EV1'. PROVIDE CONTACTOR WITH (1) N/O AND (1) N/C AUXILIARY CONTACTORS.
9. UTILITY TRANSFORMER SECONDARY SERVICES ARE DIAGRAMMATIC ONLY. EC SHALL COORDINATE INCOMING SERVICES FROM UTILITY TRANSFORMER(S) WITH FPL PRIOR TO THE START OF ANY UNDERGROUND WORK.
10. PROVIDE (1) 3/4" CONDUIT FROM GENSET TO PARALLELING CONTROLLER FOR CONTROL WIRING. COORDINATE FINAL LOCATION WITH GENSET MANUFACTURER PRIOR TO ROUGH-IN.
11. FEEDER CONDUIT FOR FIRE PUMP SHALL BE RUN UNDER THE FLOOR SLAB, WITH 3" OF ENCASED CONCRETE OR BE TYPE "MI CABLE. IF RUN IN CONDUIT, THEN THE ONLY EXPOSED SECTION OF THIS FEEDER CONDUIT ALLOWED SHALL BE AT THE CONTROLLER LOCATION.
12. OBTAIN FINAL INCOMMING POWER CONNECTION REQUIREMENTS FROM OWNER AND UPS VENDOR PRIOR TO ROUGH-IN OF ELECTRICAL INFRASTRUCTURE.
13. REFER TO SHEET T1.01 FOR PROPOSED GENERATOR ANNUNCIATOR LOCATION. COORDINATE FINAL LOCATION WITH AHJ AND ARCH/D PRIOR TO ROUGH-IN.
14. REFER TO SHEET E4.03 FOR PROPOSED EMERGENCY GENERATOR OFF GLASS BREAK LOCATION. COORDINATE FINAL LOCATION WITH AHJ AND OTHER TRADES PRIOR TO ROUGH-IN.

GENERAL NOTES:

1. BASIS OF DESIGN FOR POWER DISTRIBUTION EQUIPMENT IS SQUARE-D. IF CONTRACTOR SUBMITS APPROVED ALTERNATES, CONTRACTOR SHALL VERIFY EQUIPMENT DIMENSIONS MEET CLEARANCE REQUIREMENTS.
2. BASIS OF DESIGN FOR GENERATOR IS GENERAC. IF CONTRACTOR SUBMITS APPROVED ALTERNATES, CONTRACTOR SHALL VERIFY EQUIPMENT DIMENSIONS MEET CLEARANCE REQUIREMENTS.
3. BASIS OF DESIGN FOR TRANSFER SWITCHES IS ASCO. IF CONTRACTOR SUBMITS APPROVED ALTERNATES, CONTRACTOR SHALL VERIFY EQUIPMENT DIMENSIONS MEET CLEARANCE REQUIREMENTS.
4. PROVIDE FIELD MARKING OF THE MAXIMUM AVAILABLE FAULT CURRENT AT THE SERVICE EQUIPMENT PER NEC 110.24. FIELD MARKING SHALL BE LEGIBLE AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.
5. SERVICE TRANSFORMER PROVIDED BY FLORIDA POWER AND LIGHT. CONCRETE PAD SHALL BE PROVIDED BY CONTRACTOR. COORDINATE PAD SIZE AND OTHER REQUIREMENTS WITH THE UTILITY. COORDINATE ELECTRICAL SERVICE WITH THE UTILITY PROVIDER PRIOR TO START OF ANY WORK.
6. ALL DISTRIBUTION PANELS & PANELBOARDS SHALL BE FULLY RATED.
7. PROVIDE ARC FLASH HAZARD LABELS ON ALL DISTRIBUTION PANELS & PANELBOARDS IN ACCORDANCE WITH NFPA 70E 130.5(D).
8. PERFORM SHORT-CIRCUIT AND COORDINATION STUDY. SET THE FIELD ADJUSTABLE CIRCUIT BREAKERS TRIP RANGES. ELECTRICAL CONTRACTOR SHALL HIRE THE MANUFACTURER OF THE POWER DISTRIBUTION SYSTEM TO SET TIME CURRENT CURVES ON THE MAIN CIRCUIT BREAKER AND ASSOCIATED BRANCH CIRCUIT BREAKERS FOR THE MAIN DISTRIBUTION PANELS & PANELBOARDS SO THAT THEY ARE SELECTIVELY COORDINATED WITH EACH OTHER. THE INTERRUPTING RATING OF ALL ELECTRICAL EQUIPMENTS SHALL BE BASED ON THE DATA RESULTS FROM THE SHORT-CIRCUIT & COORDINATION STUDY
9. GENERATOR SHALL BE IN ACCORDANCE WITH NFPA 37, 70, 110 AND CAPABLE OF TRANSFERRING POWER WITHIN 10 SECONDS.
10. 500 KCMIL AND LARGER CONDUCTORS SHALL BE COORDINATED WITH PROPER TERMINATION LUGS OR PROVIDED WITH ADAPTERS AS REQUIRED BY SWITCHGEAR MAUFACTURER TO COORDINATE WITH STANDARD BREAKER LUG SIZES.
11. ALL FLOOR MOUNTED GENERATORS, SWITCHBOARDS, PANELBOARDS AND TRANSFORMERS SHALL BE PROVIDED WITH 4" CONCRETE HOUSE KEEPING PAD.
12. ALL TRANSFER SWITCHES SHALL BE PROVIDED WITH SHORT TIME RATINGS.





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DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

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PROJECT STATUS

90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

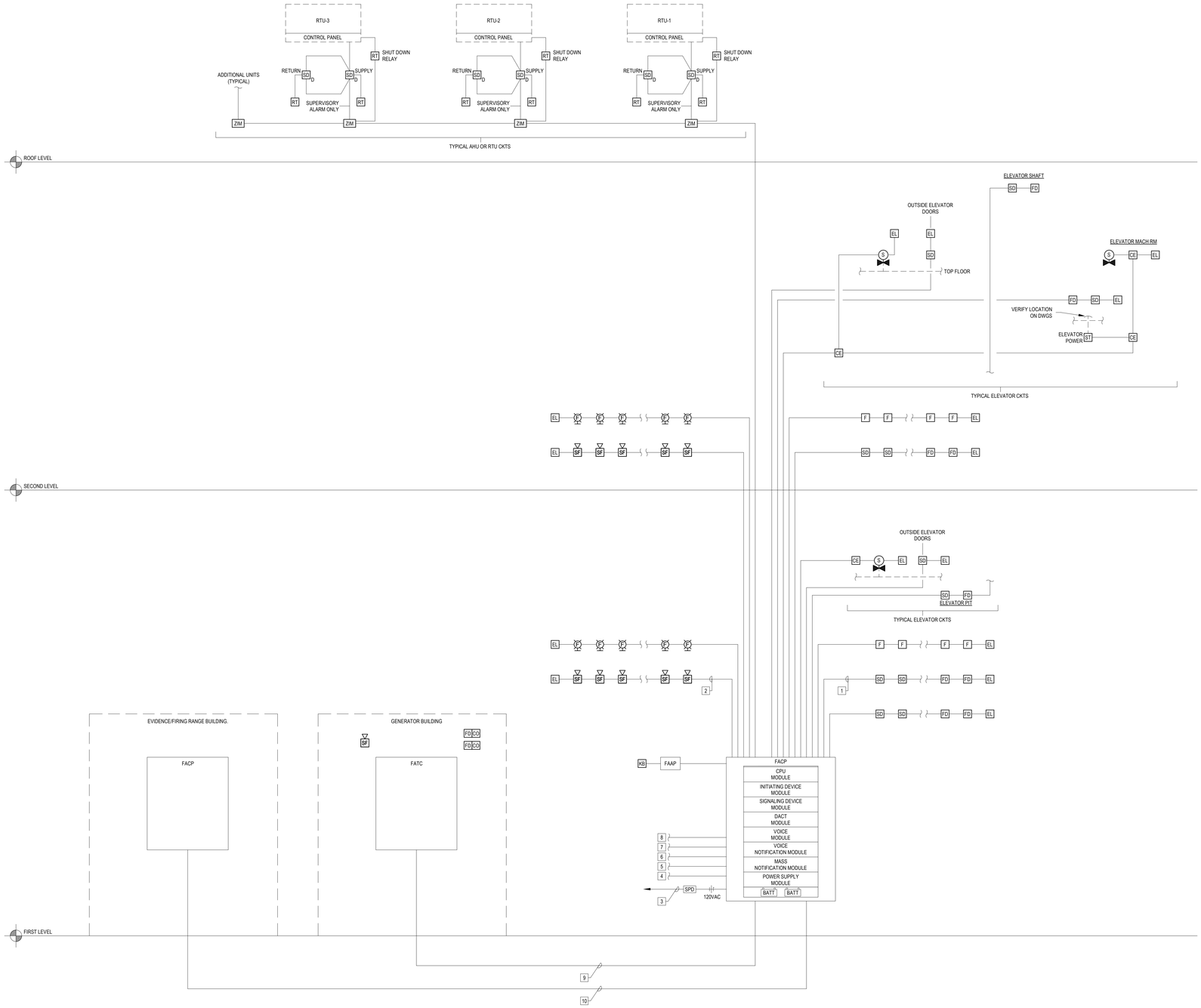
1007657.00

SHEET TITLE

RISER DIAGRAM - ELECTRICAL

SHEET NUMBER

E5.01



KEYNOTES:

1. 3/4" C., WITH INITIATING DEVICE CIRCUIT WIRING AS REQUIRED BY THE SYSTEM MANUFACTURER. (TYP)
2. 3/4" C., WITH NOTIFICATION APPLIANCE CIRCUIT WIRING AS REQUIRED BY THE SYSTEM MANUFACTURER. (TYP)
3. 3/4"C., 2 #12 & 1 #12 GND HOMERUN TO PANELBOARD. CIRCUIT BREAKER SHALL BE PROVIDED WITH "RED" OPERATING HANDLE AND A "LOCK-ON" DEVICE.
4. PROVIDE 1" CONDUIT FOR DACT CIRCUIT CABLING.
5. PROVIDE 1" CONDUIT FOR INTEGRATION WITH OWNER'S ACCESS CONTROL SYSTEM. COORDINATE WITH OWNER & ARCHITECT.
6. PROVIDE 1" CONDUIT FOR INTEGRATION WITH OWNER BDA/ERCES SYSTEM. COORDINATE ADDITIONAL REQUIREMENTS WITH OWNER AND LOW VOLTAGE CONTRACTOR PRIOR TO ROUGH-IN.
7. 3/4" C. FOR CONNECTION TO WIRELESS DACT TRANSMITTER. COORDINATE ADDITIONAL REQUIREMENTS WITH OWNER AND AHJ PRIOR TO ROUGH-IN.
8. PROVIDE 1" CONDUIT TO LIGHTING CONTROL PANEL. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH EC PRIOR TO ROUGH-IN.
9. PROVIDE 1-1/4" CONDUIT FROM FIRE ALARM CONTROL PANEL TO GENERATOR BUILDING FIRE ALARM TERMINAL CABINET.
10. PROVIDE 1-1/4" CONDUIT FROM FIRE ALARM CONTROL PANEL TO EVIDENCE BUILDING/GUN RANGE BUILDING FIRE ALARM CONTROL PANEL.

FIRE ALARM GENERAL NOTES

NOTE: UNLESS OTHERWISE NOTED ON PLANS

1. ALL WIRING SHALL BE POWER LIMITED
2. SEPARATE ZONES & FUNCTIONS MAY BE RUN IN THE SAME CONDUIT.
3. INSTALLATION SHALL COMPLY WITH NFPA CODE'S EDITIONS AS PUBLISHED IN FAC 69A-60.
4. INSTALLATION SHALL COMPLY WITH FLORIDA FIRE PREVENTION CODE 2023 EDITION.
5. CONDUIT, AS APPLICABLE SHALL BE 3/4" MINIMUM, UNLESS NOTED OTHERWISE, WITH A MAXIMUM FILL OF 40%, COMPLY WITH NEC. CONDUIT, AS APPLICABLE SHALL BE 1" MINIMUM WITH A MAXIMUM FILL OF 40%, COMPLY WITH NEC FOR CONDUIT THAT IS RUN UNDERGROUND.
6. PROVIDE ACTUAL CONDUIT SIZE REQUIRED ON SHOP DRAWINGS.
7. WIRING SHALL BE MINIMUM SIZE #16 THHN CU.
8. ALL CONDUIT SHALL BE FURNISHED WITH NYLON PULL STRING.
9. ALL AHU SHUTDOWN DEVICES MUST BE LOCATED WITHIN THREE FEET OF THE AHU STARTER.
10. ALL CABLE SHALL HAVE ZONE NUMBER AT BOTH ENDS, AND ALL RETURN CABLE SHALL BE TAPED.
11. SYSTEM SHALL BE GROUNDED PER MANUFACTURERS SPECIFICATIONS.
12. SYSTEM COMPONENTS SHALL BE UL LISTED AND COMPATIBLE.
13. SMOKE DETECTORS SHALL NOT BE LOCATED WITHIN 3' OF A/C DIFFUSERS.
14. CIRCUITS LEAVING THE BUILDING MUST HAVE SURGE PROTECTION INSTALLED. SURGE PROTECTION TO BE PROVIDED FOR 120VAC POWER, AND TELEPHONE CONNECTIONS TO FIRE ALARM.
15. FIRE ALARM PANEL & ANY ASSOCIATED FIRE ALARM EQUIPMENT MUST BE FED WITH A 120VAC, SINGLE PHASE, 20 AMP, DEDICATED BREAKER LOCKED AND MARKED.
16. SPEAKERS TO SOUND AN AUTOMATIC PRE-RECORDED MESSAGE.
17. STROBES TO BE SYNCHRONIZED.

IT SHALL BE UNDERSTOOD THAT THE CONDUIT SHOWN ON THESE DRAWINGS ARE DRAWN DIAGRAMMATICALLY. DUE TO UNKNOWN FIELD CONDITIONS CONDUIT ROUTING MAY BE INSTALLED DIFFERENTLY THAN SHOWN. WORST CASE SCENARIOS WERE CONSIDERED WHEN CALCULATING THE VOLTAGE DROPS AND CURRENT LIMITATIONS DURING THE DESIGN PROCESS. LUMP SUM METHOD WAS USED TO CALCULATE ALLOWABLE VOLTAGE DROP. THIS METHOD ALLOWS FOR A SMALL MARGIN OF SAFETY, TAKING INTO CONSIDERATION THE ACTUAL INSTALLED CIRCUIT ROUTING MAY DIFFER FROM WHAT IS SHOWN ON THE SHOP DRAWINGS.

SEQUENCE OF OPERATIONS

UPON ACTIVATION OF ANY MANUAL STATION THE FOLLOWING SHALL OCCUR:

1. ALL SPEAKERS WILL SOUND AN AUTOMATIC PRE-RECORDED MESSAGE UNTIL SYSTEM IS SILENCED.
2. ALL STROBES WILL FLASH UNTIL SYSTEM IS SILENCED.
3. AN ALARM SIGNAL SHALL BE SENT TO THE FACP. DISPLAY SYSTEM POINT NUMBER, AND POINT DESCRIPTION.
4. A SIGNAL SHALL BE SENT TO THE REMOTE SUPERVISING STATION VIA DACT.

UPON ACTIVATION OF ANY AUTOMATIC DEVICE THE FOLLOWING SHALL OCCUR:

1. ALL SPEAKERS WILL SOUND AN AUTOMATIC PRE-RECORDED MESSAGE UNTIL SYSTEM IS SILENCED.
2. ALL STROBES WILL FLASH UNTIL SYSTEM IS SILENCED.
3. AN ALARM SIGNAL SHALL BE SENT TO THE FACP. DISPLAY SYSTEM POINT NUMBER, AND POINT DESCRIPTION.
4. A SIGNAL SHALL BE SENT TO THE REMOTE SUPERVISING STATION VIA DACT.

UPON ACTIVATION OF A DUCT SMOKE DETECTOR, THE FOLLOWING SHALL OCCUR:

1. ALL SPEAKERS WILL SOUND AN AUTOMATIC PRE-RECORDED MESSAGE UNTIL SYSTEM IS SILENCED
2. ALL STROBES WILL FLASH UNTIL SYSTEM IS SILENCED.
3. A SUPERVISORY SIGNAL SHALL BE SENT TO THE FACP. DISPLAY SYSTEM POINT NUMBER, AND POINT DESCRIPTION.
4. SHUT DOWN ASSOCIATED AIR-HANDLING EQUIPMENT.
5. A SUPERVISORY SIGNAL SHALL BE SENT TO THE REMOTE SUPERVISING STATION VIA DACT.

UPON ACTIVATION OF A SPRINKLER SUPERVISORY DEVICE, THE FOLLOWING SHALL OCCUR:

1. A SUPERVISORY SIGNAL SHALL BE SENT TO THE FACP. DISPLAY SYSTEM POINT NUMBER AND POINT DESCRIPTION.
2. A SUPERVISORY SIGNAL SHALL BE SENT TO THE REMOTE SUPERVISING STATION VIA DACT.

UPON A TROUBLE CONDITION THE FOLLOWING SHALL OCCUR:

1. TROUBLE TONE SHALL SOUND AT FACP. DISPLAY DESCRIPTION OF TROUBLE CONDITION.
2. A TROUBLE SIGNAL SHALL BE SENT TO THE REMOTE SUPERVISING STATION VIA DACT.

CLIENT

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CONSULTANT

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PROJECT STATUS

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DATE OF ISSUE

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RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER

1007657.00

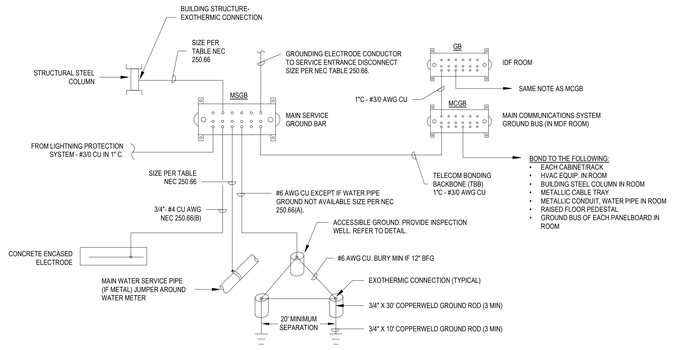
SHEET TITLE

FIRE ALARM RISER DIAGRAM - ELECTRICAL

SHEET NUMBER

E5.02

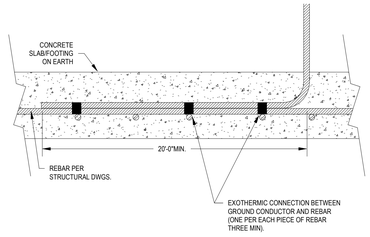
FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/RBPD_MEPF_R24.rvt
DATE STAMP: 10/23/2025 11:52:01 AM



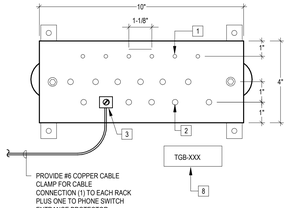
NOTE:

1. BOND ALL GROUNDING ELECTRODES PER NEC ART. 250.
2. ALL GROUNDING ELECTRODES SPECIFIED IN NEC 250.52(A)(1) THRU (A)(7) THAT ARE PRESENT ON SITE SHALL BE BONDED TOGETHER AND USED. IF NONE OF THESE GROUNDING ELECTRODES ARE PRESENT, ONE OR MORE OF THE "MADE" ELECTRODES SPECIFIED IN 250.52(A)(4) THRU (A)(8) SHALL BE INSTALLED AND USED.
3. PROVIDE GROUND ROD SYSTEM IN TRIAD FORMATION AS INDICATED.
4. DRIVE GROUND RODS FULL LENGTH INTO GROUND. TOP OF ROD 12" MIN BELOW FINISHED GRADE.

9 SERVICE GROUNDING DETAIL
NTS

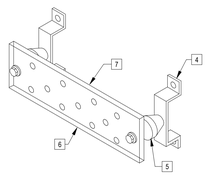


5 TYPICAL "UFER" GROUND
NTS



GENERAL:

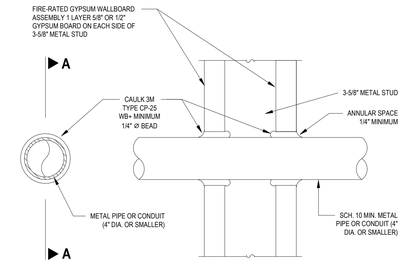
1. ALL HARDWARE (BOLTS, NUTS WASHERS, ETC.) SHALL BE SOLID COPPER OR BRONZE. COPPER PLATING SHALL NOT BE ACCEPTABLE.
2. BUSBAR SHALL BE 1/4" THICK(MINIMUM).
3. INCREASE LENGTH OF BUSBAR, FOR NUMBER OF CONNECTIONS, AS REQUIRED TO MAINTAIN CORRECT SPACING BETWEEN LUGS.



NOTE [XX]:

1. #6/32 (TYPICAL)
2. #9/32 (TYPICAL)
3. PROVIDE COPPER CABLE CLAMPS FOR CABLE CONNECTIONS (BY DIV.26).
4. STANDOFF BRACKET
5. INSULATOR
6. CADWELD544A018 OR EQUAL
7. COPPER BUSBAR
8. PROVIDE WHITE CORE BAKELITE NAMEPLATE FASTENED TO A WALL/SURFACE BELOW BUSBAR AT EACH FLOOR, WITH DESIGNATION ENGRAVED THEREON IN 1/2" HIGH LETTERS.

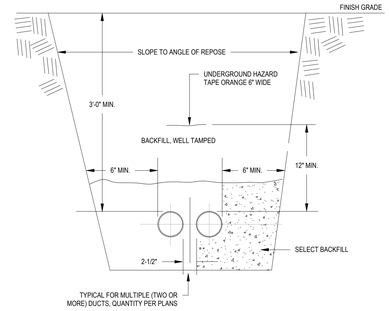
6 TYPICAL GROUND BUS BAR DETAIL
NTS



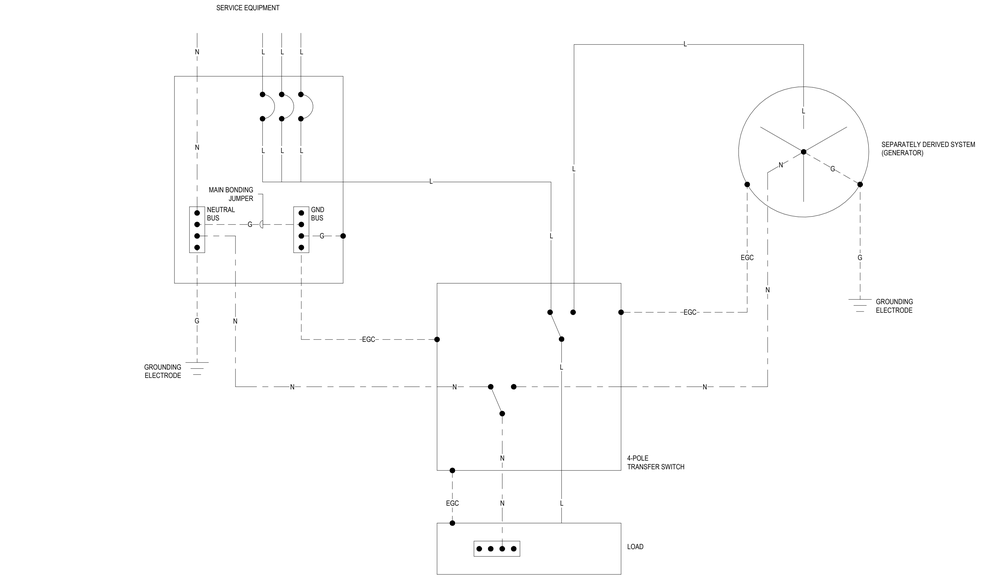
ALL SURFACES SHOULD BE CLEAN, SOUND AND DRY PRIOR TO APPLICATION OF FIRESTOPPING MATERIALS. IF THE OPENING IS NOT SLEEVED, INSTALL A GALVANIZED STEEL SLEEVE AROUND THE PIPE AND ANCHOR IT IN PLACE.

U.L. SYSTEM NO. WL1001

1 ONE HOUR FIREWALL PENETRATION DETAIL
NTS



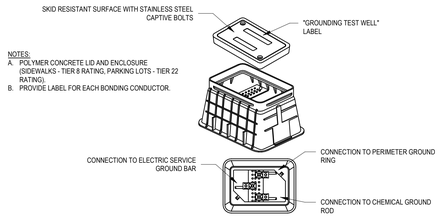
2 TYPICAL TRENCH DETAIL
NTS



NOTES

1. THE EMERGENCY GENERATOR IS A SEPARATELY DERIVED GROUNDING SYSTEM. THE GENERATOR SHALL HAVE A SWITCHED DIRECT CONNECTION TO THE GROUNDED CIRCUIT CONDUCTOR (NEUTRAL).
2. FOR GROUNDING AND GROUNDED CONDUCTOR SIZES, REFER TO OTHER SECTIONS OF THESE CONSTRUCTION DOCUMENTS, I.E. DISTRIBUTION DIAGRAM, PANELBOARD SCHEDULES, SPECIFICATIONS, ETC

10 GENERATOR W/4-POLE ATS GROUNDING DETAIL
NTS



7 GROUND INSPECTION WELL
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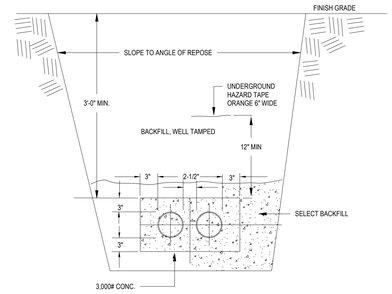
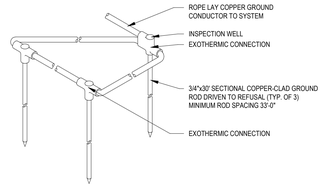
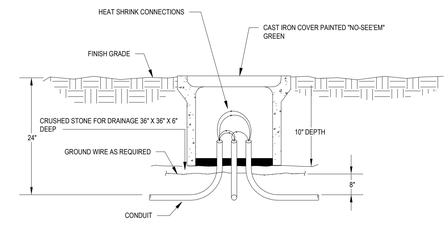


3 TYPICAL ENCASED DUCT DETAIL
NTS



8 TYPICAL GROUND ARRAY DETAIL
NTS

ON DEFPOINTS
NOT PERMITTED IN SOUTH FLORIDA



4 SPLICE BOX SECTION
NTS

FILE NAME: Autodesk Docs:// 1007657.00 - CORE - City of Riviera Beach D/RBPD_MEPF_R24.rvt
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2121 AVENUE S.
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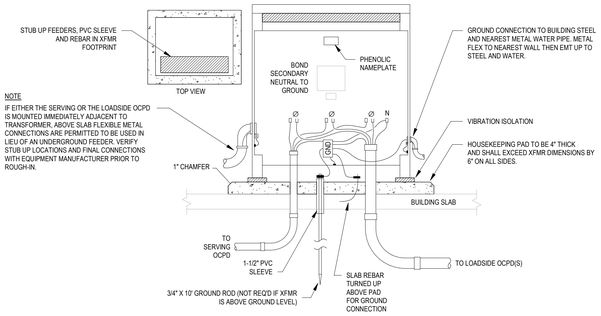
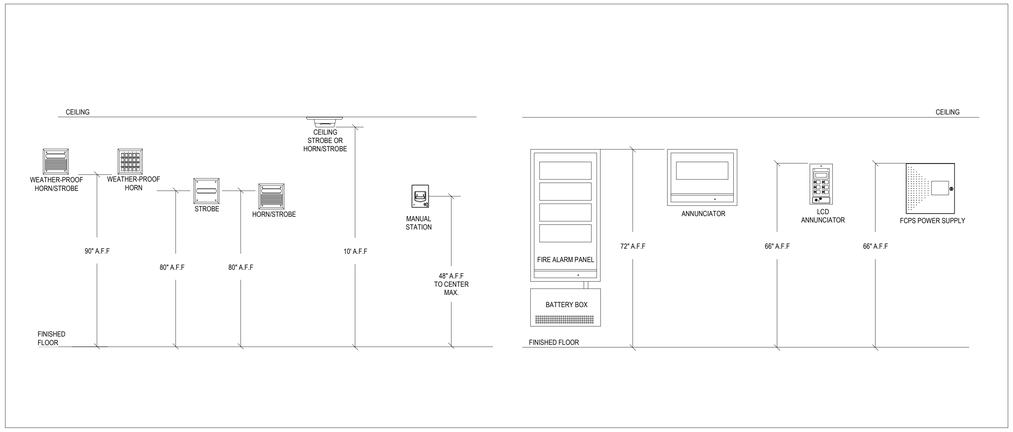
DETAILS - ELECTRICAL

SHEET NUMBER
E6.01



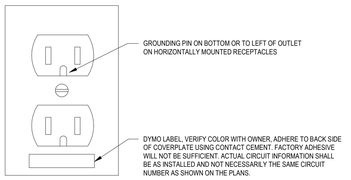
6 FLOOR MOUNTED TRANSFORMER DETAIL
NTS



1 FIRE ALARM DEVICE AND PANEL MOUNTING ELEVATIONS
NTS

NOTES:

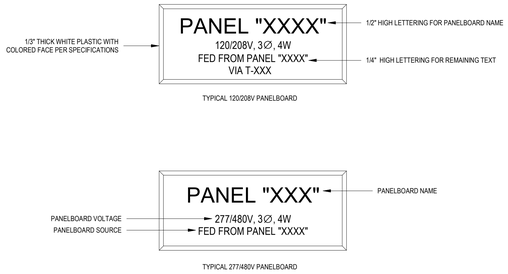
1. STROBES AND HORN/STROBES SHALL BE WALL MOUNTED A MAXIMUM OF 80" ABOVE THE FLOOR TO THE BOTTOM OF THE STROBE OR 6" MINIMUM BELOW THE CEILING, WHICHEVER IS LOWER. MEASUREMENTS ARE TO BE TAKEN FROM THE BOTTOM OF THE STROBE LENS.
2. MANUAL STATION SHALL BE INSTALLED AT 48" CENTER ABOVE FINISHED FLOOR.
3. WEATHER-PROOF HORN/STROBE SHALL BE WALL MOUNTED A MINIMUM OF 80" ABOVE FLOOR OR 6" MINIMUM BELOW THE CEILING, WHICHEVER IS LOWER. MEASUREMENTS ARE TO BE TAKEN FROM THE BOTTOM OF THE STROBE LENS.
4. MEASUREMENT TOLERANCES ARE ±1/2" U.N.O.



NOTES:

1. PROVIDE GREEN GROUND WIRE IN ALL RECEPTACLE CIRCUITS. CONNECT TO GROUND BUS IN PANEL.
2. DO NOT INSTALL RECEPTACLES,COMPUTER OR TELEPHONE OUTLETS BACK TO BACK. INSTALL IN ADJACENT STUD CAVITIES, TO REDUCE SOUND TRANSMISSION.

7 TYPICAL RECEPTACLE IDENTIFICATION
NTS



4 PANELBOARD NAMEPLATE
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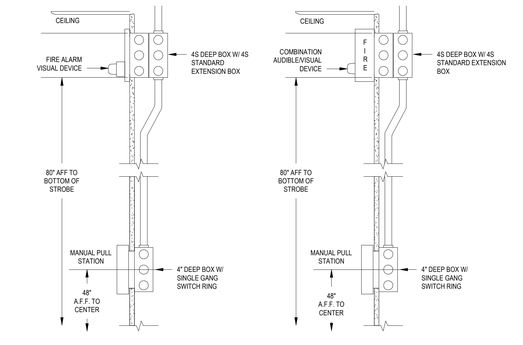
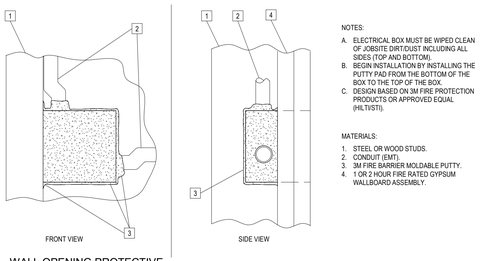
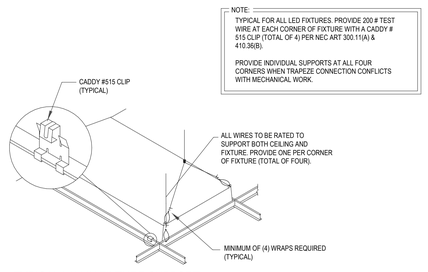


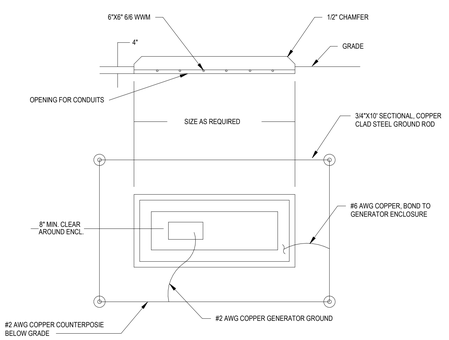
2 FIRE ALARM WALL DEVICE MOUNTING DETAIL
NTS



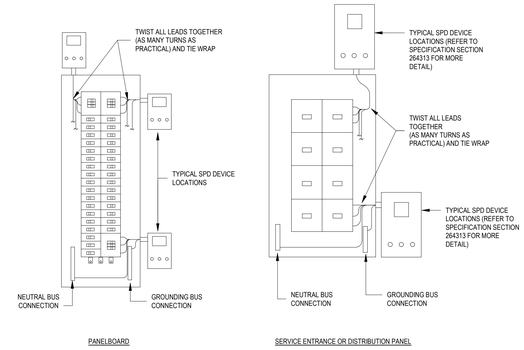
8 WALL OPENING PROTECTIVE MATERIALS ON DEVICE BOXES
NTS



9 TYPICAL LAY-IN FIXTURE SUPPORT DETAIL
NTS



5 GENERATOR PAD DETAIL
NTS



3 SPD INSTALLATION DETAIL
NTS

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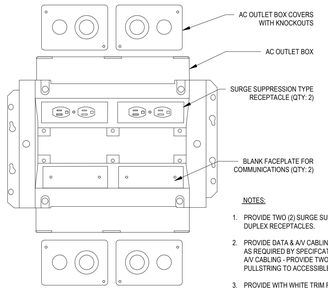
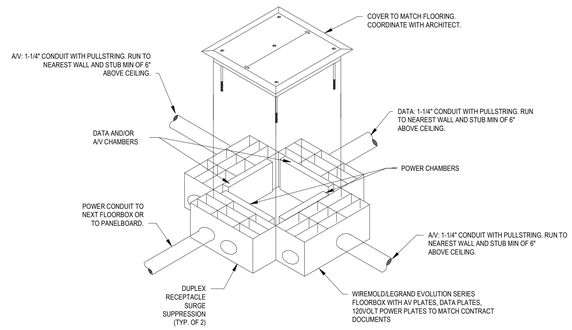


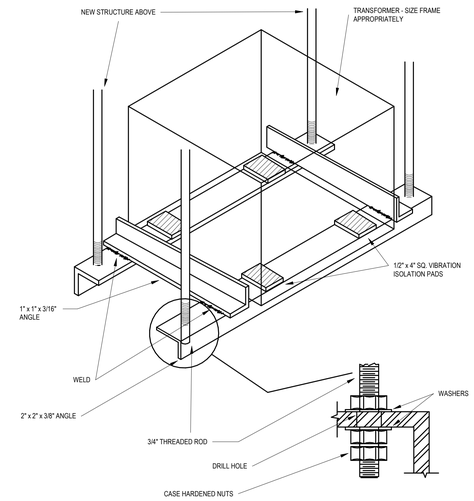
NOTES:

1. PROVIDE TWO (2) SURGE SUPPRESSION TYPE DUPLEX RECEPTACLES.
2. PROVIDE DATA & A/V CABLING AND COVER PLATES AS REQUIRED BY SPECIFCATION. FOR DATA AND A/V CABLING - PROVIDE TWO (2) 2" CONDUITS WITH PULLSTRING TO ACCESSIBLE CEILING SPACE.
3. PROVIDE WITH WHITE TRIM FLANGE AND COVER.
4. PROVIDE DIVIDER PLATE FOR SEPARATION OF 120V WIRING AND FUTURE COMMUNICATION WIRING.
5. PROVIDE ALL REQUIRED HARDWARE, MODULES, ETC. AS REQUIRED BY MANUFACTURER FOR COMPLETE SYSTEM.

8 TYPICAL WALL BOX DETAIL
NTS



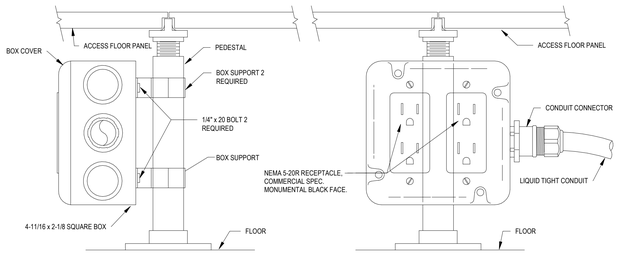
4 TYPICAL FLOOR BOX DETAIL
NTS



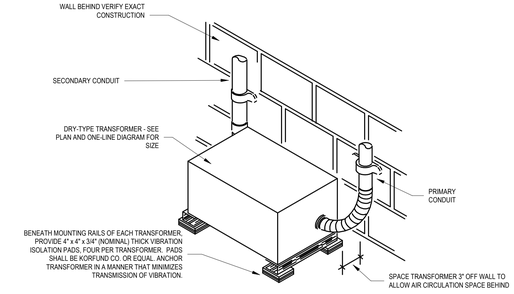
GENERAL NOTES

A. THIS DETAIL ONLY APPLIES TO DRY-TYPE TRANSFORMERS UP TO 45 KVA.

SUSPENDED DRY-TYPE TRANSFORMER INSTALLATION
1 NTS



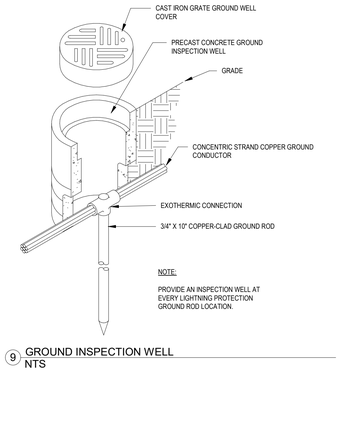
BELOW FLOOR RECEPTACLE QUAD DETAIL
5 NTS



NOTES:

A. THE FINAL 12" TO 18" OF RACEWAY CONNECTION TO BOTH PRIMARY AND SECONDARY SIDES SHALL BE "SEALTITE" TYPE UA FLEXIBLE CONDUIT OR EQUAL, FOR VIBRATION ISOLATION.
B. ALL FLOOR - MOUNTED TRANSFORMERS 75KVA AND HIGHER TO HAVE A 4" HIGH REINFORCED CONCRETE PAD.

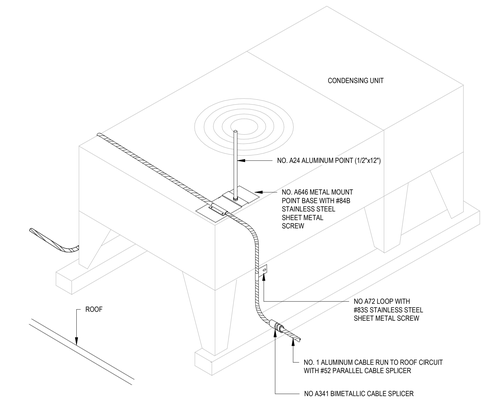
TYPICAL DRY-TYPE TRANSFORMER INSTALLATION
2 NTS



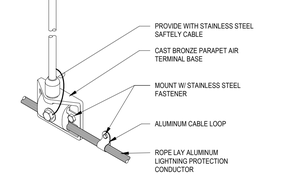
NOTE:

PROVIDE AN INSPECTION WELL AT EVERY LIGHTNING PROTECTION GROUND ROD LOCATION.

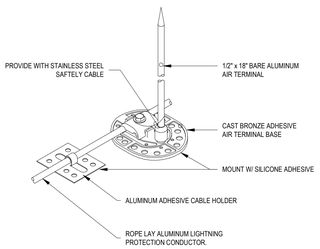
9 GROUND INSPECTION WELL
NTS



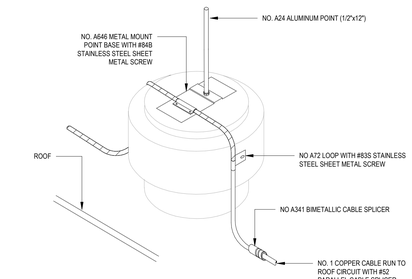
TYPICAL AIR TERMINAL ON MECHANICAL EQUIPMENT DETAIL
6 NTS



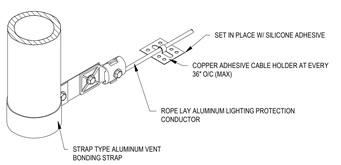
10 PARAPET AIR TERMINAL
NTS



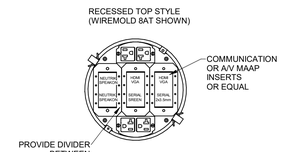
11 MID-ROOF AIR TERMINAL
NTS

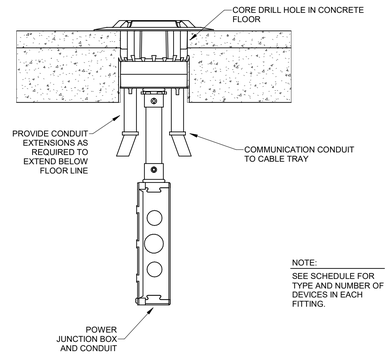


TYPICAL AIR TERMINAL ON EXHAUST EQUIPMENT DETAIL
7 NTS



12 VENT BONDING DETAIL
NTS





NOTE:

SEE SCHEDULE FOR TYPE AND NUMBER OF DEVICES IN EACH FITTING.

POKE-THRU DETAIL
3 NTS

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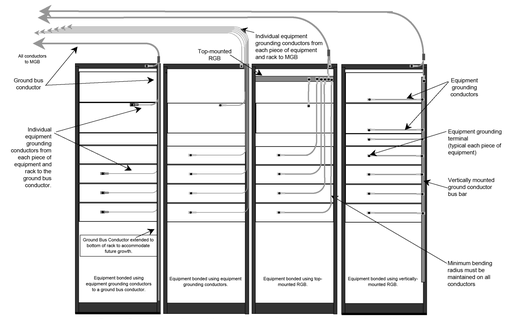

FIGURE 7-11 ACCEPTABLE METHODS FOR BONDING FROM THE EQUIPMENT TO THE MGB

Note: Blank filler panels do not require bonding.

In this application the single point where all equipment ground connectors terminate may be a point within the single cabinet or a point on the grounding electrode conductor immediately adjacent to the equipment rack, cabinet, or chassis. See Figure 7-3 below.

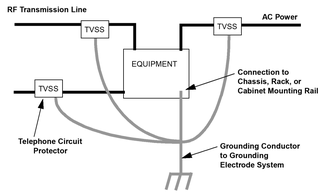

FIGURE 7-3 SINGLE EQUIPMENT GROUNDING CONNECTION

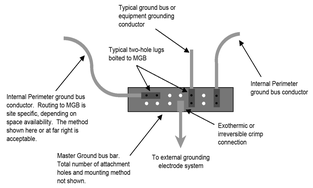

FIGURE 7-4 EXAMPLE OF MASTER GROUND BUS BAR CONNECTION CONFIGURATION

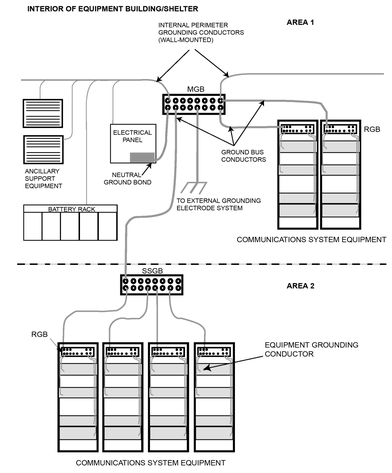

FIGURE 7-1 TYPICAL SINGLE-POINT INTERNAL GROUNDING SYSTEM

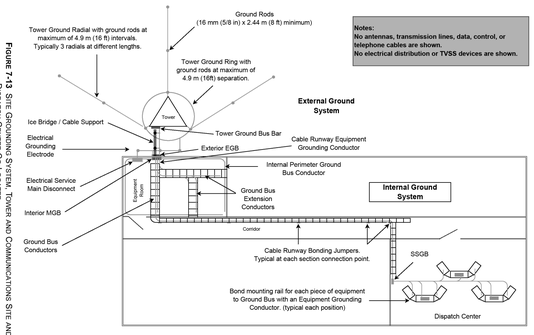

FIGURE 7-13 SITE GROUNDING SYSTEM, TOWER AND COMMUNICATIONS SITE AND DISPATCH CENTER CO-LOCATED

FIGURE 7-21 CORRECT EQUIPMENT GROUNDING METHOD

7.2 GROUND BUS BARS

This paragraph describes the three types of bus bars that may be used in a communications site building:

- Master ground bus bars (MGB)
- Subsystem ground bus bars (SSGB)
- Rack ground bus bars (RGB)

7.2.1 MASTER GROUND BUS BAR

The MGB is the single termination point for all internal ground bus conductors, internal perimeter ground bus conductors, or equipment grounding conductors as described herein. All equipment and ancillary support apparatus within the communications system equipment area **shall** be bonded to the MGB. This MGB typically serves as the single point ground termination. A typical MGB with mounting brackets is shown in Figure 7-2.

A single MGB (Figure 7-2) **shall** be installed at all communications system equipment locations in a shelter, building, room or area. An MGB may also be installed in an assembly of communications equipment cabinets as may be deemed necessary to ensure an effective bonding point for all equipment grounding conductors.[1]

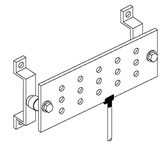

FIGURE 7-2 TYPICAL MASTER GROUND BUS BAR

A single rack, cabinet or chassis that is not part of an onsite communications system and does not constitute a communications system within itself does not require the installation of a MGB as defined in this chapter, though one may be installed if desired.

1. See NFPA 70, Article 100 Grounding Conductor, Equipment for the definition of an equipment grounding conductor.

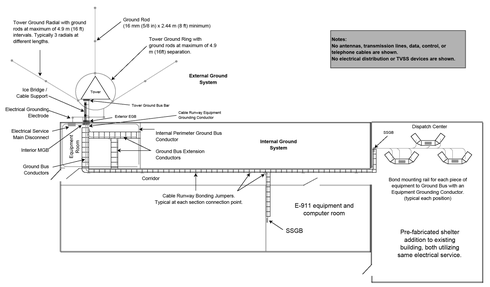

FIGURE 7-14 SITE GROUNDING SYSTEM, SEPARATE ADJACENT SHELTER OR BUILDING

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TABLE 7-3 BONDING TO THE MGB (CONTINUED)

From	To						
Item	MGB	SSGB	RGB	Ground Bus Conductor	Internal Perimeter Ground Bus Conductor		Method
Secondary telephone circuit surge suppressors	✓	✓	✓	✓			Bond with a 16 mm² csa (#6 AWG) or larger, green jacketed[1], solid or stranded copper conductor using methods described herein. An 8 mm² csa (#12 AWG) green jacketed[1] solid or stranded copper conductor may be utilized for bonding a single circuit (2 pair) surge suppressor.
Separately derived AC electrical systems	✓	✓					Bond with a 16 mm² csa (#6 AWG) or larger as may be required, green jacketed[1], solid or stranded copper conductor using methods described herein. See *NFPA 70, Table 250-66* for minimum conductor size.
Cable runway	✓	✓					Bond with a 16 mm² csa (#6 AWG) or larger, green jacketed[1], solid or stranded copper conductor using methods described herein.
Control centers, Dispatch equipment, and metallic parts of dispatch furniture	✓	✓		✓			Bond with a 16 mm² csa (#6 AWG) or larger, green jacketed[1], solid or stranded copper conductor using methods described herein.
Ancillary support items, metallic structural items and materials	✓	✓			✓		Bond with a 16 mm² csa (#6 AWG) or larger, green jacketed[1], solid or stranded copper conductor using methods described herein.

1. Ground conductors may be green, green with a yellow stripe or black with green tape on a black conductor at points designated by NFPA 70, Article 250-119 or jurisdictional codes.
2. At locations where transmission lines enter an equipment area served by a SSGB the transmission lines **shall** enter the room or area within 60 cm (24 in.) of the SSGB and the transmission line surge suppressors **shall** be bonded to the SSGB with a 16 mm² csa (#6 AWG), or larger, green jacketed, solid or stranded copper conductor using methods described herein. Refer to "Location" on page 7-24.

TABLE 7-3 BONDING TO THE MGB (CONTINUED)

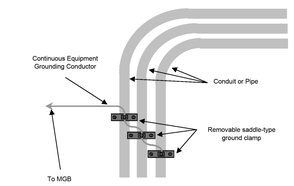
From	To					
Item	MGB	SSGB	RGB	Ground Bus Conductor	Internal Perimeter Ground Bus Conductor	Method
Individual system component chassis	✓	✓	✓	✓		All system component chassis, support chassis, panels, card cages, cross connect panels, test jack field panels and other equipment that has a ground connection point **shall** be bonded with 16 mm² csa (#6 AWG) or larger, green jacketed[1], solid or stranded copper conductor, which **shall** be attached from the equipment grounding terminal, chassis or frame to the MGB, SSGB, RGB or ground bus using methods described herein. On equipment where a ground stud or connection point provided by the manufacturer is sized and/or located such that a 16 mm² csa (#6 AWG) conductor cannot be reasonably attached, the 16 mm² csa (#6 AWG) equipment grounding conductor **shall** be attached to a suitable attachment point or to the equipment mounting screw. Where a terminal strip or other connection point integral to the equipment must be connected to ground, a jumper sized per the manufacturer's instructions **shall** be installed between this point and the equipment grounding conductor attachment point.
Transmission line & surge suppressors	✓	✓ Note 2				RF transmission line surge suppression devices **shall** be bonded to the MGB within 60 cm (24 in.) of entry into the equipment shelter, equipment room or equipment area. In instances where the RF transmission lines enter the building at a point other than where the equipment room or area is located there is no requirement for surge suppression devices at that location. The shield of the RF transmission line must be effectively bonded to the grounding electrode system at the point of entry into the building or as near as practicable thereto (NFPA-70; Article 820-33).
Primary telephone circuit surge suppressors	✓	✓				Bond with a 16 mm² csa (#6 AWG) or larger, green jacketed[1], solid or stranded copper conductor using methods described herein. An 8 mm² csa (#12 AWG) green jacketed[1] solid or stranded copper conductor may be utilized for bonding a single circuit (2 pair) surge suppressor.

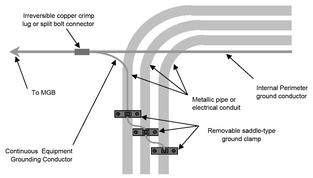
TABLE 7-3 BONDING TO THE MGB

From	To					
Item	MGB	SSGB	RGB	Ground Bus Conductor	Internal Perimeter Ground Bus Conductor	Method
SSGB	✓					Bond with 35 mm² csa (#2 AWG) or larger, green jacketed[1], solid or stranded copper conductor using methods described herein.
Rack ground bus bar (RGB)	✓	✓		✓		The RGB **shall** be bonded to the MGB, SSGB, or ground bus conductor with 35 mm² csa (#2 AWG) or larger, green jacketed[1], solid or stranded copper conductor.
Ground bus conductor	✓	✓				Ground bus conductors **shall** be effectively bonded to the MGB, SSGB, or other ground bus conductor using methods described herein.
internal perimeter ground bus	✓	✓				internal perimeter ground bus conductors **shall** be effectively bonded to the MGB or SSGB using methods described herein.
Equipment grounding conductor	✓	✓	✓	✓		Equipment grounding conductors **shall** be bonded to the MGB, SSGB, RGB or ground bus conductor using methods described herein.
Cabinets	✓	✓	✓	✓		Bond with 16 mm² csa (#6 AWG) or larger, green jacketed[1], solid or stranded copper conductor, which **shall** be attached from the cabinet equipment mounting rail, or terminal to the, MGB, SSGB, RGB or ground bus using methods described in this chapter.
Racks	✓	✓	✓	✓		Bond with 16 mm² csa (#6 AWG) or larger, green jacketed[1], solid or stranded copper conductor, which **shall** be attached from the rack grounding pad or terminal to the, MGB, SSGB, RGB or ground bus using methods described in this chapter.

TABLE 7-2 BONDING THE MGB TO THE GROUNDING ELECTRODE SYSTEM

Type of Structure				
Standalone shelter or eqpt bldg.	Eqpt. room or area within larger building.	Multistory or hi-rise structures and roof mounted cabinets	Pad or Pole mounted cabinets	Requirement
✓	✓ Note 1	✓ Note 2	✓	The MGB **shall** be bonded to the external grounding electrode system with a 35 mm² csa (#2 AWG), or larger, stranded (preferred) or solid tinned copper grounding conductor.
✓	✓	✓	✓	The MGB **shall** be bonded to the electrical service grounding electrode conductor with a 35 mm² csa (#2 AWG), or larger, stranded, copper grounding conductor. This conductor may be solid and **shall** be tinned if any part of the conductor is below grade.
	✓ Note 1	✓		The MGB **shall** be bonded to an indoor grounding electrode conductor, typically found in larger buildings, multistory or high rise structures.
	✓	✓		The indoor grounding electrode conductor may be one of the following listed in a descending order of effectiveness: • The exposed steel structure of the building • Effectively grounded metal water piping systems • Exposed electrical grounding electrode conductor • A dedicated grounding conductor
	✓	✓		Exposed nonflexible metallic service raceways may be used when none of the above means are available.
✓		✓	✓	The grounding conductor **shall** be free of any splices. Should a splice in the grounding conductor become necessary the splice **shall** be made using irreversible compression type connectors that are listed for the purpose or with the exothermic process. No other type of splice is acceptable.
	✓	✓		The grounding conductor **shall not** contain any splices. Should a splice in the grounding conductor become necessary the splice **shall** be made using irreversible compression type connectors that are listed[3] for the purpose or with the exothermic process. No other type of splice is acceptable.
✓	✓	✓	✓	Connections of the grounding conductor to the MGB **shall** be by the exothermic process or by the use of a listed[3] irreversible pressure type crimp connection.
✓	✓	✓	✓	Connections of the grounding conductor to an external grounding electrode system **shall** be by the exothermic process or by the use of a listed[3] irreversible pressure type crimp connection.
✓	✓	✓	✓	The grounding conductor **shall** be run in as straight a line as is possible and with a minimum number of bends. See Figure 7-8 and *NFPA 70, Article 250(c)* and for additional information.



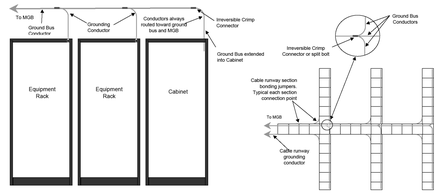


NOTE: See "Specifications" on page 7-36 and 7.3.5.3 on page 7-43 for conductor requirements.

FIGURE 7-23 GROUNDING METHOD FOR METALLIC PIPE OR CONDUIT

TABLE 7-7 EQUIPMENT TO BE BONDED

Bond To					Equipment
MGB	SSGB	RGB	Ground Bus Conductor	IPGB	
✓	✓	✓	✓		Equipment Racks and Cabinets
✓	✓	✓	✓		Individual equipment chassis
✓	✓	✓	✓		All system component chassis
✓	✓	✓	✓		Support Chassis
✓	✓	✓	✓		Panels
✓	✓	✓	✓		Card Cages
✓	✓	✓	✓		Cross connect panels
✓	✓	✓	✓		Test jack field panels
✓	✓			✓	Primary surge suppressors
		✓	✓		Secondary surge suppressors
✓	✓				Cable runway
✓	✓			✓	Storage cabinets
✓	✓			✓	Battery racks
✓	✓			✓	Metallic window frames, doors and door frames
✓	✓			✓	Metallic ceiling grids
✓	✓			✓	Metallic raised floor systems
✓	✓			✓	HVAC grills, ducts, units, motors, motor controllers, control panels
✓	✓			✓	Junction and terminal boxes
✓	✓			✓	Electrical conduits
✓	✓			✓	Panelboards
✓	✓			✓	Switchboards
✓	✓			✓	Automatic and manual transfer switches
✓	✓			✓	Transformers
✓	✓			✓	UPS units
✓	✓			✓	Other equipment and ancillary support apparatus including but not limited to that listed in "Equipment to be Bonded" on page 7-34. See Table 7-3 for additional information.



NOTES:

1. Route all conductors so that all bends and connections are in the direction of the MGB.
2. Equipment is installed in racks and cabinets as shown in Figure 7-11 and Figure 7-21.

FIGURE 7-22 GROUND BUS CONDUCTOR ROUTING

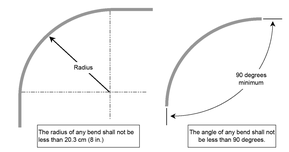
7.3.3.4 EQUIPMENT TO BE BONDED

All equipment and ancillary support apparatus including but not limited to that listed in Table 7-7 **shall** be bonded to the MGB, SSGB, RGB, ground bus conductor or internal perimeter ground bus (IPGB) conductor with an equipment grounding conductor.

TABLE 7-2 BONDING THE MGB TO THE GROUNDING ELECTRODE SYSTEM (CONTINUED)

Type of Structure				
Standalone shelter or eqpt bldg.	Eqpt. room or area within larger building.	Multistory or hi-rise structures and roof mounted cabinets	Pad or Pole mounted cabinets	Requirement
	✓	✓		The ground path integrity of the exposed structural steel or water piping system must be verified as being continuous.
	✓	✓		Effective bonding of joints and sections of exposed structural steel or water piping systems **shall** be provided as required to ensure the electrical integrity of this ground path. (NFPA-70; Article 250-68(b))
	✓	✓		Connections to the exposed steel structure of the building or dedicated grounding electrode conductor **shall** be made with the exothermic process. When the exothermic process type connection is not suitable, this connection may be made by using listed[3] irreversible pressure type crimp connectors, listed[3] lugs or clamps or split bolt type compression connectors.
✓	✓	✓		Air handling ducts are not suitable for use as a grounding means. (NFPA-70; Article 820-40)
✓	✓	✓	✓	Connections depending on solder **shall not** be used (NFPA-70; Articles 250-8 and 250-70).

1. The MGB **shall** be bonded to the external grounding electrode system (stranded conductor preferred) if such a system is installed at the building and the equipment room or area is reasonably close to ground level. The MGB **shall** be bonded to the external tower grounding electrode system if a tower or stand alone antenna structure is present.
2. The MGB may be bonded to the external grounding electrode system if the system is installed on the structure.
3. Listed means that the item or device is listed by UL or an approved testing laboratory or complies with the definition as specified in NFPA 70, Article 100.



NOTE: Applicable to grounding conductors of all sizes.

FIGURE 7-8 ACCEPTABLE GROUND CONDUCTOR BENDING

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7.6.2 SURGE PROTECTION CONSIDERATIONS FOR DISPATCH CENTERS AND OPERATOR POSITIONS

Dispatch centers co-located with communications towers require special protection considerations due to the critical nature of their operation and due to the inherent risk to personnel from lightning. For optimum dispatch center protection, the following **shall** be considered:

- Site design recommendations given in "Design Considerations to Help Reduce Effects of Lightning" on page 2-19.
- Internal grounding and bonding as defined in "Grounding (Earthing) for Dispatch Centers and Network Operator Positions" on page 5-62.
- Electrostatic discharge (ESD) precautions as defined in Appendix B.
- External grounding as defined in "External Grounding (Earthing) For Dispatch Centers Co-located With Communications Towers" on page 4-81.
- Transient Voltage Surge Suppression as follows:

7.6.2.1 MINIMUM SPD REQUIREMENTS

- Type-2 (min) service panel SPDs **shall** be required for AC electrical panels servicing the dispatch operations center and **shall** be located so as to provide the most effective surge protection (see "Installation Requirements" on page 7-33).
- Type-1 (min) SPDs are required for UPS panelboards located within the dispatch operations center when the UPS system is located more than 15.2 m (50 ft.) from the center.
- Type-3 SPDs are required for each dispatch operator position. Type-3 SPDs used **shall** be qualified Motorola compliant devices and must incorporate an external ground (earth) stud or connection point and **shall** be grounded to the operator position ground bus bar in accordance with ANSI T1.321-R2000.
- Telephone and network interface cables **shall** be surge protected and grounded as described under "Telephone/Control/Data Network Circuit SPDs" on page 7-34. Additional surge protection for headset jack interface points is recommended to reduce the possibility of shock or discomfort caused by lightning and electrostatic discharge (ESD). Headset protection units **shall** be grounded to the operator position ground bus bar.

NOTE: ESD is generally the cause for many complaints generated by dispatch personnel. Measures to control ESD **shall** be taken when designing for this environment. Most ESD problems are mitigated through proper bonding and grounding techniques, relative humidity control (between 40% and 55% relative humidity is ideal) and attention to the resistivity of flooring and furniture. Video Display Terminals (VDT), keyboards and the mouse are additional areas where energy can build up between the equipment and personnel. Proper static resistive mats and pads can reduce discomfort and injury caused by ESD. Cathode tubes used in some VDTs generate powerful electrical fields, and while there are screens and mats to help to minimize the effects of electrostatic discharge between equipment and personnel, it does not negate the need for training personnel on the proper skills to avoid coming in contact with ESD.

Surge protection devices should be present on all AC power, telephone and data communication cables at every network operator position or cluster to help minimize voltages between communication conductors and conductive surfaces (see Chapter 7, "Surge Protective Devices"). When SPDs are present, they **shall** be bonded to the SSGB using conductors as follows:

- 6 mm² csa (#10 AWG) insulated copper conductor for lengths not exceeding 914 mm (3 ft.).
- 16 mm² csa (#6 AWG) insulated copper conductor for lengths not exceeding 3.9 m (13 ft.).

The grounding conductors **shall** be run using the shortest, most direct route as practicable. See Figure 5-39 for a high level overview of the required bonding.

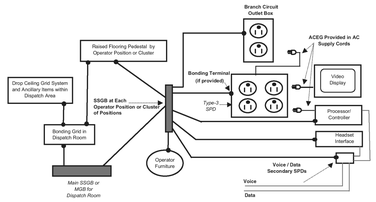

FIGURE 5-39 EXAMPLE OF NETWORK OPERATOR POSITION GROUNDING

5.8.3.2 INTERPOSITION BONDING FOR MULTI-CLUSTER NETWORK OPERATOR POSITIONS

When a dispatch room is configured with multiple network operator position clusters, consideration should be given to establishing a bonding grid that interconnects all network operator position SSGBs and equalizes potentials among the clusters. This bonding grid will be of value if an operator of one cluster, while still connected to his or her own position, approaches a position in an adjacent neighboring cluster. When a bonding grid is installed it **shall** meet the requirements of this paragraph. See Figure 5-40 and Figure 5-41 on page 5-67 for examples.

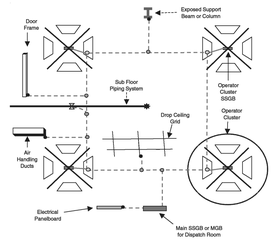

FIGURE 5-40 RAISED FLOORING GROUNDING GRID, SHOWING BONDING OF ANCILLARY SUPPORT APPARATUS TO THE BONDING GRID

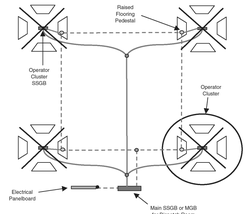

FIGURE 5-41 RAISED FLOOR GROUNDING GRID AND NETWORK OPERATOR EQUIPMENT GROUND BUS SYSTEM

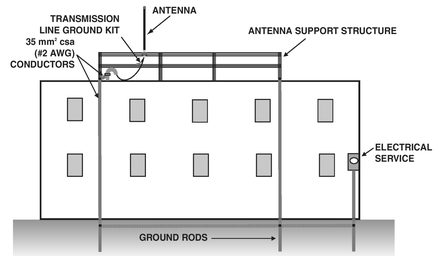

FIGURE 4-54 ROOF MOUNTED ANTENNA MAST GROUNDING WITH SUPPLEMENTAL GROUNDING ELECTRODE SYSTEM

IMPORTANT: When installed, supplemental grounding electrode systems **shall** be effectively bonded to the building grounding electrode system. See "Common Grounding (Earthing)" on page 4-5.

4.8.1 SIDE MOUNTED ANTENNA GROUNDING (EARTHING)

Typically, a side mounted antenna may be grounded (earthed) with a single grounding conductor. The use of two grounding down-conductors may not always be practical. However, two down-conductors should be used whenever practical; this is especially important at buildings that are normally occupied, such as dispatch centers. When two grounding down-conductors are not installed, it is recommended to either use a copper strap or a larger sized grounding down-conductor.

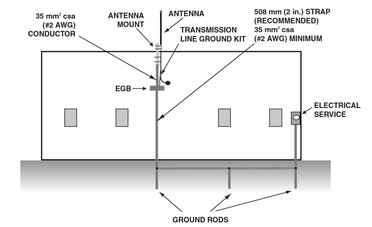

FIGURE 4-55 SIDE-MOUNTED ANTENNA GROUNDING USING COPPER STRAP DOWN CONDUCTOR

When multiple side mounted antennas are installed together, a single horizontal grounding conductor should bond all antenna masts together. The horizontal grounding conductor should bond to the grounding electrode system from each side of the side mounted antennas with a grounding down-conductor. When several antennas are installed together, therefore, creating a long horizontal grounding conductor, it is recommended to install intermediate grounding down-conductors every 6.1 m (20 ft.).

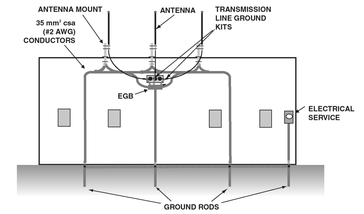

FIGURE 4-56 GROUNDING OF MULTIPLE SIDE-MOUNTED ANTENNAS

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/RBPD_MEPF_R24.rvt
DATE STAMP: 10/23/2025 11:52:48 AM

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

ARCHITECT OF RECORD

PGAL, Inc.
791 Park of Commerce Blvd.
Suite 400
Boca Raton, FL 33487
T 561 988 4002
www.pgal.com

CONSTRUCTION MANAGER/BUILDER

CORE CONSTRUCTION
1641 Worthington Rd
West Palm Beach
FL 33409

PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

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SUCHARMA WIJEGUNAWARDANA, P.E.
4 HARVARD CIRCLE, SUITE 600
WEST PALM BEACH, FL 33409
FL REG. NO. PE82143

DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

CMTA
A LEGENCE Company
4 Harvard Cir, Suite 600 | West Palm Beach, FL 33409
561.688.6575 | cmta.com

PROJECT STATUS

90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

1007657.00

SHEET TITLE

DETAILS - ELECTRICAL

SHEET NUMBER

E6.06

FPL

09/05/25

Colin Cassidy
4 Harvard Circle Suite 600
West Palm Beach 33409

Re: Available Fault Current for 1621 W Blue Heron Blvd

Dear Colin Cassidy

Thank you for contacting FPL about the available fault current at 1621 W Blue Heron Blvd . Based on the plans you have provided dated 09/05/25 , the maximum available fault current at the transformer secondary terminals is estimated to be 20821 symmetrical amperes at 277/480 volts. The protective device on the line side of the transformer currently in place or to be installed and serving your property located at the subject location is a 65 amp type Bayonet fuse. The primary service voltage is 13 kv L-G.This calculated symmetrical fault current is not intended for use as the basis for motor starting calculations and does not include:

- Consideration for any motor contribution or
- Fault current asymmetry.

The FPL equipment currently serving or planned to serve your facility may change over time as a result of any number of factors, including but not limited to transformer replacements due to load growth, electrical grid changes or emergencies. As a result, although we are providing you with this information for the sole purpose of assisting you in the completion of your study, you and your client should not design, install or operate your system in reliance upon any expectation that the specific size and type of equipment currently in place will remain so. If and when the size and type of the equipment changes, our employees are not always in a position to immediately notify customers.

As the construction project progresses, any questions or information you may need can be communicated through me. I have enclosed my business card for easy reference and look forward to hearing from you in the near future.

Sincerely,

Andrew Boutte

Andrew Boutte
Distribution Engineer

UX-116.1.3	CONCRETE FOUNDATION CONSTRUCTION DETAILS FOR 750 TO 2,500 KVA 3 PHASE RADIAL AND LOOP TYPE PAD MOUNTED TRANSFORMER	UX-116.1.3

INSTALLATION GUIDELINES AND RESPONSIBILITIES

THE CUSTOMER SHALL:

1. MAINTAIN ACCESSIBILITY OF CONCRETE FOUNDATION FOR FPL VEHICLES AND EQUIPMENT.
2. INSTALL ALL PVC CONDUITS, AS SHOWN IN UX-116.1.1 FIGURE 1 AND FIGURE 2, BEFORE THE CONCRETE PAD IS POURED.
3. PROVIDE AND INSTALL REINFORCING MATERIAL PER UX-116.1.2 AND HAVE PAD INSPECTED BY FPL BEFORE THE CONCRETE IS POURED.
4. PROVIDE AND INSTALL DAYTON SUPERIOR THREADED INSERT 1/2" PART NO. F42-1/2" WITH PLUG ELECTRO-GALVANIZED, TWO(2) REQUIRED, SEE UX-116.1.1 FIGURE 1 AND DETAIL "A".
   DAYTON SUPERIOR NORTH OF WEST PALM IS 1-800-745-3710
   DAYTON SUPERIOR FOR EVERYWHERE ELSE IS 1-800-745-3702
5. INSTALL A 1-1/2" METERING CONDUIT TO A LOCATION SPECIFIED BY FPL, IF APPLICABLE.
   NOTE: THIS CONDUIT MUST BE IN ACCORDANCE WITH X-27.0.1 OF THE DISTRIBUTION CONSTRUCTION STANDARDS.
6. INSTALL SECONDARY CABLES NOT TO EXCEED THAT SPECIFIED IN TABLE ON UX-116.1.1 AND OF SUFFICIENT LENGTH TO TERMINATE IN SECONDARY BUS.
7. PROVIDE AND INSTALL C.T. METERING ENCLOSURES AT LOCATION SPECIFIED BY FPL, IF APPLICABLE.
8. PROVIDE AND MAINTAIN GALVANIZED TRAFFIC BARRIERS WHEN SPECIFIED BY FPL.

FPL SHALL:

1. PROVIDE FPL CONDUIT AND END PLUGS TO CUSTOMER.
2. INSPECT CUSTOMER'S REINFORCING MATERIALS BEFORE CONCRETE IS POURED INTO FORMED PAD.
3. INSTALL AND MAINTAIN THE PADMOUNTED TRANSFORMER AND THE SECONDARY BUS ENCLOSURE.
4. TERMINATE THE CUSTOMER'S SECONDARY CABLES TO THE TRANSFORMER BUS.
5. INSTALL C.T. WIRING AND METERING EQUIPMENT, IF APPLICATION.
6. CABLES REQUIRING CT METERING INSIDE THE TRANSFORMER MUST BE PLACED TOWARDS THE FRONT OPENING OF THE TX PAD AND IN FRONT OF ANY OTHER CABLES WHICH ARE NOT CT METERED INSIDE THE TRANSFORMER. THIS IS TO AVOID CABLE TRAINING ISSUES.

FPL
OH & UG DISTRIBUTION SYSTEM STANDARDS

NO.	DATE	REVISION	ORG.	DRAWN	APPR.
2	1/28/16	UPDATE NOTES	ARR	ELS	RDH
1	8/20/08	UPDATE NOTE 5	JFD	ELS	JJM

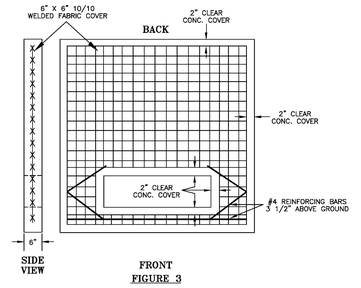
ORIGINATOR: SMS — DRAWN BY: E. SCHILLING
DATE: — APPROVED: J.J. McEVOY — NO SCALE
SUPERVISOR, OH/UG PRODUCT SUPPORT SERVICES

UX-116.1.2	CONCRETE FOUNDATION CONSTRUCTION DETAILS FOR 750 TO 2,500 KVA 3 PHASE RADIAL AND LOOP TYPE PAD MOUNTED TRANSFORMERS	UX-116.1.2

REINFORCING MATERIALS

NOTES:

1. THE CONCRETE PAD SHALL BE 5.5 TO 6.0 INCHES THICK, IT SHOULD BE FORMED USING 1" X 6" FRAMING BOARDS.
2. THE #4 REINFORCING BARS AND THE WELDED WIRE MESH (6" X 6") MUST HAVE A 2" CONCRETE COVER FROM THE TOP AND SIDES OF THE PAD INCLUDING THE CABLE OPENING AREA. EXPOSED WIRE MESH SHALL NOT BE ACCEPTABLE.



FRONT
FIGURE 3

CONCRETE MIX SPECIFICATIONS

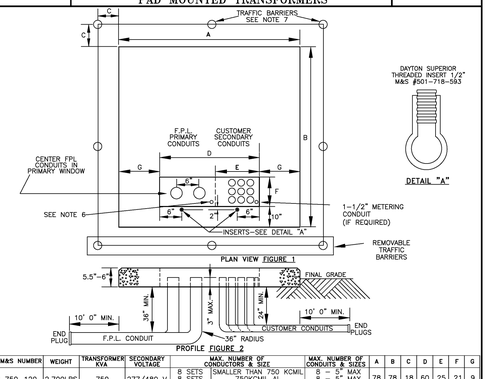
1. CONCRETE MIX PLACED IN PAD SHALL MEET THE FOLLOWING DESIGN REQUIREMENTS:
   A. MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,000 psi.
   B. MAXIMUM WATER/CEMENT RATIO OF 0.50.
   C. MAXIMUM SLUMP OF 4 INCHES.
   D. AIR-ENTRAINMENT CONTENT BETWEEN 4 AND 8 PERCENT.
2. CONCRETE SHALL BE AFFORDED ADEQUATE CURE FOR A MINIMUM OF 7 DAYS AT AN AVERAGE AMBIENT TEMPERATURE OF 70 DEGREES F. OR MORE.
3. PAD SHALL BE SUPPORTED ON NATURAL LEVELED GROUND WITH THE SUB-GRADE COMPACTED UNTIL IT IS UNIFORM. A MAXIMUM ALLOWABLE VARIATION BETWEEN ANY TWO POINTS ON THIS SURFACE IS 0.250 INCHES.

FPL
OH & UG DISTRIBUTION SYSTEM STANDARDS

NO.	DATE	REVISION	ORG.	DRAWN	APPR.

ORIGINATOR: SMS — DRAWN BY: RAS
DATE: — APPROVED: J.J. MCEVOY — NO SCALE
SUPERVISOR, OH/UG PRODUCT SUPPORT SERVICES

UX-116.1.1	CONCRETE FOUNDATION CONSTRUCTION DETAILS FOR 750 TO 2,500KVA 3Φ RADIAL & LOOP TYPE PAD MOUNTED TRANSFORMERS	UX-116.1.1



PROFILE FIGURE 2

PAD M&S NUMBER	WEIGHT	TRANSFORMER KVA	SECONDARY VOLTAGE	MAX. NUMBER OF CONDUCTORS & SIZE	MAX. NUMBER OF CONDUITS & SIZES	A	B	C	D	E	F	G
162-750-120	2,700LBS	750	277/480 V	8 SETS SMALLER THAN 750 KCMIL 8 SETS 750KCMIL AL 6 SETS 750KCMIL CU*	8 - 5" MAX 8 - 5" MAX 6 - 5" MAX	78	78	18	60	25	21	9
162-750-120	2,700LBS	750	120/208 V	12 SETS SMALLER THAN 750 KCMIL 8 SETS 750KCMIL AL 6 SETS 750KCMIL CU*	12 - 5" MAX 8 - 5" MAX 6 - 5" MAX	78	78	18	60	25	21	9
162-100-000	3,600LBS	1000	120/208 V OR 277/480 V	12 SETS SMALLER THAN 750 KCMIL 8 SETS 750KCMIL AL 6 SETS 750KCMIL CU*	12 - 5" MAX 8 - 5" MAX 6 - 5" MAX	88	88	18	60	25	21	14
162-150-200	4,050LBS	1500-2000	277/480 V	12 SETS SMALLER THAN 750 KCMIL 8 SETS 750KCMIL AL 6 SETS 750KCMIL CU*	12 - 5" MAX 8 - 5" MAX 6 - 5" MAX	94	94	18	64	26	21	15
162-250-025	5,050LBS	2500	277/480 V	12 SETS 750 KCMIL OR SMALLER*	12 - 5" MAX	106	106	18	66	28	26	20

NOTES:
1. FOR CONSTRUCTION DETAILS AND INSTALLATION GUIDELINES.
2. (*) CABLES LARGER THAN 500 CU WILL REQUIRE MULTITAP CONNECTORS 103-806-300 AND 103-806-400.
3. FOR ANY NEW INSTALLATION WHICH HAS MORE THAN 6 SETS OF 750 KCMIL CU OR MORE THAN 12 SETS OF A SMALLER SIZE CONDUCTOR, IT IS RECOMMENDED TO USE THE LARGE THREE -PHASE SECONDARY CABINET, M&S #161-401-003, AS SHOWN IN DCS I-75.0.0.
4. #4 TYPE OF STEEL RE-BAR (1/2") ON ALL 4 CORNERS.
5. 6" X 6" WIRE MESH SURROUNDING ALL OPENINGS.
6. INSTALL 2" SLEEVE FOR GROUND ROD, 48" LONG.
7. FOR TRAFFIC BARRIERS INFORMATION REFER TO UX-21.0.0.
8. REFER TO I-63.0.1 FOR ADDITIONAL DETAILS.
9. USE APPROVED TOOL M&S #594-106-003 FOR LIFTING AND HANDLING THESE PADS.
10. IF CT'S ARE REQUIRED, CABLES/CONDUITS REQUIRING CT METERING MUST BE PLACED TOWARDS THE FRONT OF THE PAD.
11. A SECONDARY CABINET IS REQUIRED FOR ALL NON-LISTED NEW INSTALLATIONS.

FPL
OH & UG DISTRIBUTION SYSTEM STANDARDS
ORIGINATOR: MV — DRAWN BY: E. SCHILLING
DATE: 10/9/96 — APPROVED: J.J. MCEVOY — NO SCALE
SUPERVISOR, OH/UG PRODUCT SUPPORT SERVICES

NO.	DATE	REVISION	ORG.	DRAWN	APPR.
13	8/27/20	ADD NOTE 11 & UPDATE TABLE	ARR	GXS	RDH
12	8/26/19	UPDATE NOTE 8	ARR	ELS	RDH
11	12/14/15	UPDATE TABLE	ARR	ELS	RDH
10	11/9/15	UPDATE TABLE	ARR	ELS	RDH
9	9/9/15	ADD NOTE 8	ARR	ELS	RDH

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Group 2 (Non-Concurrent)	Fire Pump : Fire Pump #1 1 X 75.00 HP Code G (6 KVA/Hp) 350% Current Limit Soft Starter Voltage Stepped Rated torque at start running at 100%	45.41	261	69.47	78.06	25%	0%	78.1	15.00% 72 volts	15 Hertz
Group 2 (Non-Concurrent)	Lighting : EM LIGHTING 1 X 14.00 KVA @ 0.95 PF Harmonics: THID = 20.00%	13.3	14	13.3	14	20%	20%	14	25.00%	10 Hertz
Group 2 (Non-Concurrent) Summary	All loads on (sequence starting) 193.3kWAll loads on (sequence starting) 217.1kW Application Peak	106	261	193.27	202.56	23.2%	3%	92.1	15% 72 volts	16.7% 10 hertz
Group 3 (Non-Concurrent)	Non-linear : SERVER ROOM EQ 1 X 40.00 kW @ 1.00 PF Harmonics: THID = 7.50%	40	40	40	40	7.5%	7.5%	40	15.00%	5 Hertz
Group 3 (Non-Concurrent)	Resistive : HEATING VAVs 1 X 237.00 kW @ 1.00 PF Harmonics: THID = 0.00%	237	237	237	237	0%	0%	0	35.00%	15 Hertz
Group 3 (Non-Concurrent)	AC / Chiller 1 : CH-2-1 1 X 18.00 HP Compressor Motors Cooling: 1.0 kW/ton Reheat: 0.0 kW/ton	18	60	8.5	10	0%	0%	0	35.00%	15 Hertz
Group 3 (Non-Concurrent)	Motor : RTU-2 1 X 83.00 Amps Code G (6 kVA/Hp) 6 Pulse Rectifier VFD Commercial(115%) Rated torque at start running at 100%	17.22	19.57	63.88	72.59	30%	30%	72.6	15.00%	5 Hertz
Group 3 (Non-Concurrent)	Motor : RTU-1 1 X 83.00 Amps Code G (6 kVA/Hp) 6 Pulse Rectifier VFD Commercial(115%) Rated torque at start running at 100%	17.22	19.57	63.88	72.59	30%	30%	72.6	15.00%	5 Hertz
Group 3 (Non-Concurrent)	Motor : MISC MOTORS (MINI SPLITS/EF FANS) 1 X 49.00 Amps Code G (6 kVA/Hp) Across the Line Rated torque at start running at 100%	78.13	229.8	35.43	40.73	0%	0%	0	35.00%	15 Hertz
Group 3 (Non-Concurrent)	Motor : RTU-3 1 X 83.00 Amps Code G (6 kVA/Hp) IGBT Rectifier VFD Commercial(115%) Rated torque at start running at 100%	17.22	19.57	63.88	72.59	7.5%	7.5%	72.6	15.00%	5 Hertz
Group 3 (Non-Concurrent)	Lighting : NORMAL LIGHTING 1 X 39.50 KVA @ 0.95 PF Harmonics: THID = 20.00%	37.52	39.5	37.52	39.5	20%	20%	39.5	25.00%	10 Hertz
Group 3 (Non-Concurrent) Summary	All loads on (sequence starting) 550.1kWAll loads on (sequence starting) 767.1kW Application Peak	237	237	550.09	585	18.6%	18.6%	297.3	15% 72 volts	8.3% 5 hertz

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Solution Summary

Contact Information		Prepared By	
Project :	Riviera PD	**Name :**	Colin Cassidy
Solution Name :	PARALLEL NG 500s FINAL	**Company :**	CMTA
Spec Ref# :		**Phone :**	5616886575
Description :		**Email :**	colin.cassidy@cmta.com
Contact :			
Email :			

Solution Type		Units	
Solution Type :	Stationary	**Units :**	English

Environment		Engine	
Ambient Temperature :	100 F / 38 C	**Duty :**	Standby
Elevation :	1000 ft / 305 m	**Fuel :**	Natural Gas

Electrical Configuration		Market Region	
Phase :	Three Phase	**Region :**	US & Canada
Frequency (Hz) :	60 Hz	**Application:**	General
Voltage (Nominal) :	480/277V (High Wye)		
Voltage (Specific) :	480 volts		

Maximum Allowable Transients		Generator Configuration	
Maximum Running Load :	80 %	**Sound (desired) :**	65 dBA
Voltage Dip :	35.00 %	**Fuel Tank :**	No Requirement
Frequency Dip :	15 hertz	**Run Time (desired) :**	No Requirement

Load Sequence Configuration		Max Allowable Voltage Distortion (% THVD)	
Cyclic #1:	75 % After Largest	**Continuous :**	11 %
Cyclic #2:	75 % After Largest	**Momentary :**	13 %

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Transient Analysis

Most difficult alternator transient requirements (Vdip)		Most difficult engine transient requirements (Fdip)	
Sequence :	Group 3 (Non-Concurrent)	**Sequence :**	Group 3 (Non-Concurrent)
Load :	HEATING VAVs	**Load :**	HEATING VAVs
Starting kVA:	237	**Starting kVA:**	237
Vdip Tolerance :	15.00 %	**Fdip Tolerance :**	5
Vdip Expected :	*8.2%	**Fdip Expected :**	2.13

Alternator Transient Analysis (Vdip)

Sequence	Allowable Vdip	Expected Vdip	Sequence Starting kVA	Largest Transient Load
Group 1 (Non-Concurrent)	15.0%	1.80%	87	Elevator-Hydraulic #1
Group 2 (Non-Concurrent)	15.0%	5.45%	261	Fire Pump #1
Group 3 (Non-Concurrent)	15.0%	*8.17%	237	HEATING VAVs

Engine Transient Analysis (Fdip)

Sequence	Allowable Fdip	Expected Fdip	Sequence Starting kW	Largest Transient Load
Group 1 (Non-Concurrent)	5	0.16	17.66	Elevator-Hydraulic #1
Group 2 (Non-Concurrent)	5	0.95	106	REC.
Group 3 (Non-Concurrent)	5	2.13	237	HEATING VAVs

Note: UPS that revert to battery on system transients do not establish a sequence frequency dip limit through they may impact the sizing. The sizing algorithm verifies the engine can accept the UPS within its frequency tolerance.

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Generator and Load Summary

Selected Generator & Alternator	
Product Family Method :	Auto Select
Product Family :	SG/MG Spark
Sizing Method :	Manual
Generator :	500 kW, 25.8L
Quantity :	2
Alternator :	K0500124Y23-500kW

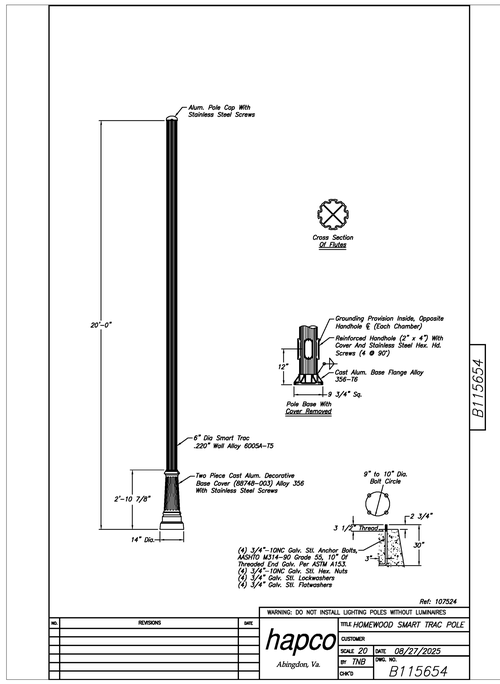
Model
500 kW, 25.8L
2 x 500 kW, Natural Gas Genset -- Site rated 1000 kw
25.8 L Engine with Standard (K0500124Y23-500kW) Alternator

Load Level		Transients		Harmonics	
Running :	77%	Fdip (Hz):	2.1	THVD Cont:	7.2%
Peak :	70	Vdip (%):	8.2	THVD Peak :	7.2%

Load Summary -- Connected Load of 767.14 kW					
Running		Transients		Harmonics	
kW:	767.14	kW (Step):	237	kVA:	417.05
kVA:	815.21	kW (Peak):	767.14	THID Cont:	13.7%
PF:	0.94	kVA (Step):	261	THID Peak :	13.7%

Solution Limits			
Max Loading :	80%	Fdip (Hz):	15
		Vdip (%):	35
		THVD Cont:	11 %
		THVD Peak :	13 %

Load List		Starting		Running		Harmonic Current Distortion			Limits	
Sequence	Description	kW	kVA	kW	kVA	Peak	Cont.	kVA	Vdip	Cont.
Group 1 (Non-Concurrent)	Elevator-Hydraulic : Elevator-Hydraulic #1 1 X 25.00 HP Code G (6 kVA/Hp) 350% Current Limit Soft Starter Voltage Stepped Rated torque at start running at 100%	17.66	87	23.78	27.65	25%	0%	27.7	15.00%	5 Hertz
Group 1 (Non-Concurrent) Summary	All loads on (sequence starting) 23.8kWAll loads on (sequence starting) 23.8kW Application Peak	17.66	87	23.78	27.65	25%	0%	27.7	15% 72 volts	8.3% 5 hertz
Group 2 (Non-Concurrent)	Miscellaneous : FACP 1 X 1.50 kVA @ 1.00 PF Harmonics: THID = 0.00%	1.5	1.5	1.5	1.5	0%	0%	0	35.00%	15 Hertz
Group 2 (Non-Concurrent)	Miscellaneous : BDA 2 X 1.50 kVA @ 1.00 PF Harmonics: THID = 0.00%	3	3	3	3	0%	0%	0	35.00%	15 Hertz
Group 2 (Non-Concurrent)	Miscellaneous : REC 1 X 106.00 kW @ 1.00 PF Harmonics: THID = 0.00%	106	106	106	106	0%	0%	0	35.00%	15 Hertz



Ref: 107524

NO.	REVISIONS	DATE

WARNING: DO NOT INSTALL LIGHTING POLES WITHOUT LUMINAIRES
TITLE HOMEWOOD SMART TRAC POLE
CUSTOMER:
SCALE 20 — DATE: 08/27/2025
BY TNB — DWG. NO. B115654
CHK'D

hapco
Abingdon, Va.

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/RBPD_MEPF_R24.rvt
DATE STAMP: 10/23/2025 11:52:59 AM

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

ARCHITECT OF RECORD

PGAL

PGAL, Inc.
791 Park of Commerce Blvd.
Suite 400
Boca Raton, FL 33487
T 561 988 4002
www.pgal.com

CONSTRUCTION MANAGER/BUILDER

CORE CONSTRUCTION
1641 Worthington Rd
West Palm Beach
FL 33409

PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

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SUCHARMA WIJEGUNAWARDANA, P.E.
4 HARVARD CIRCLE, SUITE 600
WEST PALM BEACH, FL 33409
TEL (561) 842-7600 FAX (561) 842-7610

DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

CMTA
A LEGENCE Company
4 Harvard Cir, Suite 600 | West Palm Beach, FL 33409
561.688.6575 | cmta.com

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER
1007657.00

SHEET TITLE
DETAILS - ELECTRICAL

SHEET NUMBER
E6.07

Branch Panel: LS1

LOCATION: MAIN ELECTRICAL ROOM 224
SUPPLY FROM: ATS-LS
MOUNTING: Surface
ENCLOSURE: TYPE 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 35kA
MAINS TYPE: MCB
MAINS RATING: 125 A
MCB RATING: 100 A

C..	NOT..	CIRCUIT DESCRIPTION	TRIP	P	Ø	N	G	C.	A		B		C		C.	G	N	Ø	P	TRIP	CIRCUIT DESCRIPTION	NOT..	C..
1		EXERIOR WALL PACK LTG	20 A	1					0.52	0					--	--	--	--	3	30 A	SPD	--	2
3		1ST FLR LTG CORRIDOR EM	20 A	1							1.07	0			--	--	--	--	--	--	--	--	4
5		2ND FLR LTG CORRIDOR EM	20 A	1									0.68	0	--	--	--	--	--	--	--	--	6
7		STAIRWELL LTG	20 A	1					0.72	2.29									1	20 A	1ST FLR EM LTG		8
9		HOLDING AND SALLY PORT EM	20 A	1							1.11	1.38							1	20 A	1ST FLR EM LTG		10
11		2ND FLR EM LTG	20 A	1									1.45	1.86					1	20 A	2ND FLR EM LTG		12
13		TXLS	50 A	3					3.25	0									3	100 A	SPARE	--	14
15	--	--	--	--	--	--	--	--			3.38	0			--	--	--	--	1	20 A	SPARE	--	16
17	--	--	--	--	--	--	--	--					3	0	--	--	--	--	1	20 A	SPARE	--	18
19	--	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	--	20
21	--	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	--	22
23	--	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	--	24
25	--	SPACE	--	1	--	--	--	--	--	--					--	--	--	--	1	--	SPACE	--	26
27	--	SPACE	--	1	--	--	--	--			--	--			--	--	--	--	1	--	SPACE	--	28
29	--	SPACE	--	1	--	--	--	--					--	--	--	--	--	--	1	--	SPACE	--	30
								Total Load:	6.78 kVA		6.94 kVA		6.99 kVA									
								Total Amps:	24 A		25 A		25 A									

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	3.75 kVA	100.00%	3.75 kVA		
Motor	2.88 kVA	125.00%	3.6 kVA	**Total Conn. Load:**	20.71 kVA
Receptacle	3 kVA	100.00%	3 kVA	**Total Est. Demand:**	24.2 kVA
Lighting	11.08 kVA	125.00%	13.85 kVA	**Total Conn.:**	25 A
				Total Est. Demand:	29 A

NOTE LEGEND:

*** REFER TO POWER RISER FOR FEEDER WIRE AND CONDUIT SIZES.**

G = GFCI TYPE BREAKER
A = AFCI TYPE BREAKER
ST = SHUNT TRIP BREAKER
RL = RED, LOCKABLE BREAKER
E = EXISTING BREAKER
LSI = LSI ADJUSTABLE TRIP BREAKER

- ALL SINGLE POLE 15 & 20 AMP CIRCUITS SHALL BE PROVIDED WITH (2) #12 AWG CU, #12 CU GND IN 3/4" C. UNLESS NOTED OTHERWISE.
- PROVIDE GROUND BUS & NEUTRAL BUS.
- PROVIDE TYPE WRITTEN DIRECTORY.
- PANEL SHALL BE FULLY RATED
- FOR MULTIPHASE CIRCUITS, CONTRACTOR SHALL PROVIDE A PHASE CONDUCTOR FOR EACH POLE....

Branch Panel: LS2

LOCATION: MAIN ELECTRICAL ROOM 224
SUPPLY FROM: TXLS
MOUNTING: Surface
ENCLOSURE: TYPE 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 22kA
MAINS TYPE: MCB
MAINS RATING: 100 A
MCB RATING: 100 A

C..	NOT..	CIRCUIT DESCRIPTION	TRIP	P	Ø	N	G	C.	A		B		C		C.	G	N	Ø	P	TRIP	CIRCUIT DESCRIPTION	NOT..	C..
1		LTG CNTRL PNL LCP1	20 A	1					0.25	0					--	--	--	--	3	30 A	SPD	--	2
3	(RL)	FIKE CONTROL PNL	20 A	1							0.5	0			--	--	--	--	--	--	--	--	4
5	(RL)	FACP	20 A	1									1.5	0	--	--	--	--	--	--	--	--	6
7		BDA RECEPT.	20 A	1					1.5	1.5									1	20 A	BDA RECEPT.		8
9	(RL)	PREACTION CABINET	50 A	1							2.88	0			--	--	--	--	1	20 A	SPARE	--	10
11	(RL)	GEN BLDG FATC	20 A	1									1.5	0	--	--	--	--	1	20 A	SPARE	--	12
13	--	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	--	14
15	--	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	--	16
17	--	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	--	18
19	--	SPACE	--	1	--	--	--	--	--	--					--	--	--	--	1	--	SPACE	--	20
21	--	SPACE	--	1	--	--	--	--			--	--			--	--	--	--	1	--	SPACE	--	22
23	--	SPACE	--	1	--	--	--	--					--	--	--	--	--	--	1	--	SPACE	--	24
25	--	SPACE	--	1	--	--	--	--	--	--					--	--	--	--	1	--	SPACE	--	26
27	--	SPACE	--	1	--	--	--	--			--	--			--	--	--	--	1	--	SPACE	--	28
29	--	SPACE	--	1	--	--	--	--					--	--	--	--	--	--	1	--	SPACE	--	30
								Total Load:	3.25 kVA		3.38 kVA		3 kVA									
								Total Amps:	27 A		28 A		25 A									

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	3.75 kVA	100.00%	3.75 kVA		
Motor	2.88 kVA	125.00%	3.6 kVA	**Total Conn. Load:**	9.63 kVA
Receptacle	3 kVA	100.00%	3 kVA	**Total Est. Demand:**	10.35 kVA
				Total Conn.:	27 A
				Total Est. Demand:	29 A

NOTE LEGEND:

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LSI = LSI ADJUSTABLE TRIP BREAKER

- ALL SINGLE POLE 15 & 20 AMP CIRCUITS SHALL BE PROVIDED WITH (2) #12 AWG CU, #12 CU GND IN 3/4" C. UNLESS NOTED OTHERWISE.
- PROVIDE GROUND BUS & NEUTRAL BUS.
- PROVIDE TYPE WRITTEN DIRECTORY.
- PANEL SHALL BE FULLY RATED
- FOR MULTIPHASE CIRCUITS, CONTRACTOR SHALL PROVIDE A PHASE CONDUCTOR FOR EACH POLE....

Branch Panel: DP2

LOCATION: MAIN ELECTRICAL ROOM 224
SUPPLY FROM: ATS-2
MOUNTING: Surface
ENCLOSURE: TYPE 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 35kA
MAINS TYPE: MCB
MAINS RATING: 800 A
MCB RATING: 600 A

C..	NOT..	CIRCUIT DESCRIPTION	TRIP	P	Ø	N	G	C.	A		B		C		C.	G	N	Ø	P	TRIP	CIRCUIT DESCRIPTION	NOT..	C..
1		TX2	225 A	3					27.54	0					--	--	--	--	3	60 A	SPD	--	2
3	--	--	--	--	--	--	--	--			26.57	0			--	--	--	--	--	--	--	--	4
5	--	--	--	--	--	--	--	--					28.38	0	--	--	--	--	--	--	--	--	6
7		CR/2-2.1	15 A	3					0.54	5.69									3	40 A	CR/-2.1		8
9	--	--	--	--	--	--	--	--			0.54	5.69			--	--	--	--	--	--	--	--	10
11	--	--	--	--	--	--	--	--					0.54	5.69	--	--	--	--	--	--	--	--	12
13	--	SPARE	100 A	3	--	--	--	--	0	0					--	--	--	--	3	100 A	SPARE	--	14
15	--	--	--	--	--	--	--	--			0	0			--	--	--	--	--	--	--	--	16
17	--	--	--	--	--	--	--	--					0	0	--	--	--	--	--	--	--	--	18
19	--	SPARE	30 A	3	--	--	--	--	0	0					--	--	--	--	3	60 A	SPARE	--	20
21	--	--	--	--	--	--	--	--			0	0			--	--	--	--	--	--	--	--	22
23	--	--	--	--	--	--	--	--					0	0	--	--	--	--	--	--	--	--	24
25	--	SPARE	15 A	3	--	--	--	--	0	0					--	--	--	--	3	20 A	SPARE	--	26
27	--	--	--	--	--	--	--	--			0	0			--	--	--	--	--	--	--	--	28
29	--	--	--	--	--	--	--	--					0	0	--	--	--	--	--	--	--	--	30
31	--	SPACE	--	1	--	--	--	--	--	--					--	--	--	--	1	--	SPACE	--	32
33	--	SPACE	--	1	--	--	--	--			--	--			--	--	--	--	1	--	SPACE	--	34
35	--	SPACE	--	1	--	--	--	--	--	--					--	--	--	--	1	--	SPACE	--	36
37	--	SPACE	--	1	--	--	--	--			--	--			--	--	--	--	1	--	SPACE	--	38
39	--	SPACE	--	1	--	--	--	--					--	--	--	--	--	--	1	--	SPACE	--	40
41	--	SPACE	--	1	--	--	--	--							--	--	--	--	1	--	SPACE	--	42
								Total Load:	33.78 kVA		32.81 kVA		34.62 kVA									
								Total Amps:	122 A		118 A		126 A									

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	67.36 kVA	100.00%	67.36 kVA		
HVAC	18.71 kVA	100.00%	18.71 kVA	**Total Conn. Load:**	101.21 kVA
Motor	1.66 kVA	125.00%	2.08 kVA	**Total Est. Demand:**	99.89 kVA
Receptacle	13.48 kVA	87.09%	11.74 kVA	**Total Conn.:**	122 A
				Total Est. Demand:	120 A

NOTE LEGEND:

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E = EXISTING BREAKER
LSI = LSI ADJUSTABLE TRIP BREAKER

- ALL SINGLE POLE 15 & 20 AMP CIRCUITS SHALL BE PROVIDED WITH (2) #12 AWG CU, #12 CU GND IN 3/4" C. UNLESS NOTED OTHERWISE.
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- PROVIDE TYPE WRITTEN DIRECTORY.
- PANEL SHALL BE FULLY RATED
- FOR MULTIPHASE CIRCUITS, CONTRACTOR SHALL PROVIDE A PHASE CONDUCTOR FOR EACH POLE....

Branch Panel: DP4

LOCATION: MECHANICAL ROOM 206
SUPPLY FROM: TX-2
MOUNTING: Surface
ENCLOSURE: TYPE 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 35kA
MAINS TYPE: MCB
MAINS RATING: 800 A
MCB RATING: 600 A

C..	NOT..	CIRCUIT DESCRIPTION	TRIP	P	Ø	N	G	C.	A		B		C		C.	G	N	Ø	P	TRIP	CIRCUIT DESCRIPTION	NOT..	C..
1		3-RACK UPS - DATA RM.212	150 A	3					13.33	0					--	--	--	--	3	60 A	SPD	--	2
3	--	--	--	--	--	--	--	--			13.33	0			--	--	--	--	--	--	--	--	4
5	--	--	--	--	--	--	--	--					13.33	0	--	--	--	--	--	--	--	--	6
7		C23	225 A	3					9.97	4.24									3	225 A	C22		8
9	--	--	--	--	--	--	--	--			9	4.24			--	--	--	--	--	--	--	--	10
11	--	--	--	--	--	--	--	--					9.81	5.24	--	--	--	--	--	--	--	--	12
13	--	SPARE	100 A	3	--	--	--	--	0	0					--	--	--	--	3	100 A	SPARE	--	14
15	--	--	--	--	--	--	--	--			0	0			--	--	--	--	--	--	--	--	16
17	--	--	--	--	--	--	--	--					0	0	--	--	--	--	--	--	--	--	18
19	--	SPARE	60 A	3	--	--	--	--	0	0					--	--	--	--	3	30 A	SPARE	--	20
21	--	--	--	--	--	--	--	--			0	0			--	--	--	--	--	--	--	--	22
23	--	--	--	--	--	--	--	--					0	0	--	--	--	--	--	--	--	--	24
25	--	SPARE	20 A	3	--	--	--	--	0	0					--	--	--	--	3	15 A	SPARE	--	26
27	--	--	--	--	--	--	--	--			0	0			--	--	--	--	--	--	--	--	28
29	--	--	--	--	--	--	--	--					0	0	--	--	--	--	--	--	--	--	30
31	--	SPACE	--	1	--	--	--	--	--	--					--	--	--	--	1	--	SPACE	--	32
33	--	SPACE	--	1	--	--	--	--			--	--			--	--	--	--	1	--	SPACE	--	34
35	--	SPACE	--	1	--	--	--	--	--	--					--	--	--	--	1	--	SPACE	--	36
37	--	SPACE	--	1	--	--	--	--			--	--			--	--	--	--	1	--	SPACE	--	38
39	--	SPACE	--	1	--	--	--	--					--	--	--	--	--	--	1	--	SPACE	--	40
41	--	SPACE	--	1	--	--	--	--							--	--	--	--	1	--	SPACE	--	42
								Total Load:	27.54 kVA		26.57 kVA		28.38 kVA									
								Total Amps:	231 A		221 A		238 A									

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	67.36 kVA	100.00%	67.36 kVA		
Motor	1.66 kVA	125.00%	2.08 kVA	**Total Conn. Load:**	82.5 kVA
Receptacle	13.48 kVA	87.09%	11.74 kVA	**Total Est. Demand:**	81.18 kVA
				Total Conn.:	229 A
				Total Est. Demand:	225 A

NOTE LEGEND:

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RL = RED, LOCKABLE BREAKER
E = EXISTING BREAKER
LSI = LSI ADJUSTABLE TRIP BREAKER

- ALL SINGLE POLE 15 & 20 AMP CIRCUITS SHALL BE PROVIDED WITH (2) #12 AWG CU, #12 CU GND IN 3/4" C. UNLESS NOTED OTHERWISE.
- PROVIDE GROUND BUS & NEUTRAL BUS.
- PROVIDE TYPE WRITTEN DIRECTORY.
- PANEL SHALL BE FULLY RATED
- FOR MULTIPHASE CIRCUITS, CONTRACTOR SHALL PROVIDE A PHASE CONDUCTOR FOR EACH POLE....

Switchboard: MSB1

LOCATION: MAIN ELECTRICAL ROOM 224
SUPPLY FROM: Floor
MOUNTING: Floor
ENCLOSURE: NEMA 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 65kA
MAINS TYPE: MCB
MAINS RATING: 1600 A
MCB RATING: 1600 A

CKT	CICUIT DESCRIPTION	POLES	FRAME SIZE	TRIP RATING	Ø	N	G	C.	Load	NOTES
1	SPD	3	125 A	60 A					0 kVA	
2	ATS-1 NORMAL	3	1200 A	1200 A					781.42 kVA	
3	ATS-2 NORMAL	3	600 A	600 A					101.21 kVA	
4	TX-EV	3	250 A	225 A					133.12 kVA	
5	SPARE	3	400 A	400 A					0 kVA	
6	SPARE	3	400 A	400 A					0 kVA	
7	SPARE	3	250 A	250 A					0 kVA	
8	SPARE	3	250 A	250 A					0 kVA	
9	SPARE	3	125 A	125 A					0 kVA	
10	SPARE	3	125 A	60 A					0 kVA	
11	SPACE	1	--	--					--	
12	SPACE	1	--	--					--	
13	SPACE	1	--	--					--	
14	SPACE	1	--	--					--	
15	SPACE	1	--	--					--	
16	SPACE	1	--	--					--	
17	SPACE	1	--	--					--	
18	SPACE	1	--	--					--	
19	SPACE	1	--	--					--	
20	SPACE	1	--	--					--	
21	SPACE	1	--	--					--	
								TOTAL CONN. LOAD:	1015.75 kVA	
								TOTAL CONN. AMPS:	1222 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	224.12 kVA	100.00%	224.12 kVA		
Lighting	31.6 kVA	125.00%	39.5 kVA	**Total Conn. Load:**	1015.75 kVA
Motor	57.67 kVA	107.12%	61.78 kVA	**Total Est. Demand:**	932.62 kVA
Heating	236.5 kVA	100.00%	236.5 kVA	**Total Conn. Current:**	1222 A
Receptacle	200.28 kVA	52.50%	105.14 kVA	**Total Est. Demand Current:**	1122 A
Elevator	41.55 kVA	100.00%	41.55 kVA		
Equipment	224.03 kVA	100.00%	224.03 kVA		

NOTE LEGEND:

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RL = RED, LOCKABLE BREAKER
E = EXISTING BREAKER
LSI = LSI ADJUSTABLE TRIP BREAKER

- U.N.O. ALL SINGLE POLE 15 & 20 AMP CIRCUITS SHALL BE PROVIDED WITH #12AWG CU CONDUCTORS (H,N,G) IN 3/4" CONDUIT.
- PROVIDE GROUND BUS & NEUTRAL BUS.
- PROVIDE TYPE WRITTEN DIRECTORY.

Branch Panel: DP1

LOCATION: MAIN ELECTRICAL ROOM 224
SUPPLY FROM: ATS-1
MOUNTING: Surface
ENCLOSURE: TYPE 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 35kA
MAINS TYPE: MCB
MAINS RATING: 1200 A
MCB RATING: 1200 A

C..	NOT..	CIRCUIT DESCRIPTION	TRIP	P	Ø	N	G	C.	A		B		C		C.	G	N	Ø	P	TRIP	CIRCUIT DESCRIPTION	NOT..	C..
1		L11	125 A	3					7.82	0					--	--	--	--	3	60 A	SPD	--	2
3	--	--	--	--	--	--	--	--			11.8	0			--	--	--	--	--	--	--	--	4
5	--	--	--	--	--	--	--	--					10.79	0	--	--	--	--	--	--	--	--	6
7		TX1A (225 kVA)	350 A	3					78.97	0									1	20 A	SPARE		8
9	--	--	--	--	--	--	--	--			78.94	0			--	--	--	--	1	20 A	SPARE	--	10
11	--	--	--	--	--	--	--	--					79.15	2.64					3	15 A	ERV-1		12
13	--	SPARE	20 A	1	--	--	--	--	0	2.64					--	--	--	--	--	--	--	--	14
15	--	M21	250 A	3							37	2.64			--	--	--	--	--	--	--	--	16
17	--	--	--	--	--	--	--	--					36.5	13.85					3	80 A	ELEVATOR (25 HP)	ST	18
19	--	--	--	--	--	--	--	--	40	13.85					--	--	--	--	--	--	--	--	20
21	--	RTU-1	125 A	3							22.82	13.85			--	--	--	--	--	--	--	--	22
23	--	--	--	--	--	--	--	--					22.82	22.82					3	125 A	RTU-2		24
25	--	--	--	--	--	--	--	--	22.82	22.82					--	--	--	--	--	--	--	--	26
27	--	RTU-3	125 A	3							22.82	22.82			--	--	--	--	--	--	--	--	28
29	--	--	--	--	--	--	--	--					22.82	48.53					3	250 A	M11		30
31	--	--	--	--	--	--	--	--	22.82	48.53					--	--	--	--	--	--	--	--	32
33	--	SPARE	20 A	1	--	--	--	--			0	48.53			--	--	--	--	--	--	--	--	34
35	--	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	--	36
37	--	SPARE	60 A	3	--	--	--	--			0	0			--	--	--	--	3	60 A	SPARE	--	38
39	--	--	--	--	--	--	--	--	0	0					--	--	--	--	--	--	--	--	40
41	--	--	--	--	--	--	--	--			0	0			--	--	--	--	--	--	--	--	42
								Total Load:	260.27 kVA		261.22 kVA		259.93 kVA									
								Total Amps:	940 A		943 A		938 A									

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Elevator	41.55 kVA	100.00%	41.55 kVA		
Equipment	23.55 kVA	100.00%	23.55 kVA	**Total Conn. Load:**	781.42 kVA
HVAC	205.41 kVA	100.00%	205.41 kVA	**Total Est. Demand:**	705.03 kVA
Heating	236.5 kVA	100.00%	236.5 kVA	**Total Conn.:**	940 A
Motor	56.01 kVA	107.33%	60.12 kVA	**Total Est. Demand:**	848 A
Receptacle	186.8 kVA	52.68%	98.4 kVA		
Lighting	31.6 kVA	125.00%	39.5 kVA		

NOTE LEGEND:

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G = GFCI TYPE BREAKER
A = AFCI TYPE BREAKER
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RL = RED, LOCKABLE BREAKER
E = EXISTING BREAKER
LSI = LSI ADJUSTABLE TRIP BREAKER

- ALL SINGLE POLE 15 & 20 AMP CIRCUITS SHALL BE PROVIDED WITH (2) #12 AWG CU, #12 CU GND IN 3/4" C. UNLESS NOTED OTHERWISE.
- PROVIDE GROUND BUS & NEUTRAL BUS.
- PROVIDE TYPE WRITTEN DIRECTORY.
- PANEL SHALL BE FULLY RATED
- FOR MULTIPHASE CIRCUITS, CONTRACTOR SHALL PROVIDE A PHASE CONDUCTOR FOR EACH POLE....

Branch Panel: DP3

LOCATION: MAIN ELECTRICAL ROOM 224
SUPPLY FROM: TX-1
MOUNTING: Surface
ENCLOSURE: TYPE 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 35kA
MAINS TYPE: MCB
MAINS RATING: 800 A
MCB RATING: 800 A

C..	NOT..	CIRCUIT DESCRIPTION	TRIP	P	Ø	N	G	C.	A		B		C		C.	G	N	Ø	P	TRIP	CIRCUIT DESCRIPTION	NOT..	C..
1		G11	100 A	3					3.4	0					--	--	--	--	3	60 A	SPD	--	2
3	--	--	--	--	--	--	--	--			2.96	0			--	--	--	--	--	--	--	--	4
5	--	--	--	--	--	--	--	--					2.84	0	--	--	--	--	--	--	--	--	6
7	--	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	--	8
9		P23	225 A	3							17.35	17.62							3	225 A	P25		10
11	--	--	--	--	--	--	--	--					17.25	18.31	--	--	--	--	--	--	--	--	12
13	--	--	--	--	--	--	--	--	17.55	16.37					--	--	--	--	--	--	--	--	14
15	--	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	--	16
17		P21	225 A	3									17.69	0	--	--	--	--	1	20 A	SPARE	--	18
19	--	--	--	--	--	--	--	--	18.51	23.15									3	225 A	P11		20
21	--	--	--	--	--	--	--	--			17.85	23.17			--	--	--	--	--	--	--	--	22
23													23.07		--	--	--	--	--	--	--	--	24
25	--	SPARE	15 A	3	--	--	--	--	0	0					--	--	--	--	3	20 A	SPARE	--	26
27	--	--	--	--	--	--	--	--			0	0			--	--	--	--	--	--	--	--	28
29	--	--	--	--	--	--	--	--					0	0	--	--	--	--	--	--	--	--	30
31	--	SPARE	60 A	3	--	--	--	--	0	0					--	--	--	--	3	30 A	SPARE	--	32
33	--	--	--	--	--	--	--	--			0	0			--	--	--	--	--	--	--	--	34
35	--	--	--	--	--	--	--	--					0	0	--	--	--	--	--	--	--	--	36
37	--	SPARE	100 A	3	--	--	--	--	0	0					--	--	--	--	3	100 A	SPARE	--	38
39	--	--	--	--	--	--	--	--			0	0			--	--	--	--	--	--	--	--	40
41	--	--	--	--	--	--	--	--					0	0	--	--	--	--	--	--	--	--	42
								Total Load:	78.97 kVA		78.94 kVA		79.15 kVA									
								Total Amps:	658 A		658 A		660 A									

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |

Branch Panel: L11

LOCATION: MECHANICAL ROOM 109
SUPPLY FROM: DP1
MOUNTING: Surface
ENCLOSURE: TYPE 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 35kA
MAINS TYPE: MCB
MAINS RATING: 125 A
MCB RATING: 125 A

C...	NOT...	CIRCUIT DESCRIPTION	TRIP	P	Ø	N	G	C.	A	B	C	C.	G	N	Ø	P	TRIP	CIRCUIT DESCRIPTION	NOT...	C...
1		SW PARKING POLES	20 A	1					1.36	0		--	--	--	--	3	30 A	SPD	--	2
3		2ND FLR LTG CORRIDOR	20 A	1						1.72	0	--	--	--	--	--	--	--	--	4
5	--	HOLDING AND SALLY PORT	20 A	1							1.35	0	--	--	--	--	--	--	--	6
7		EAST PARKING POLES	20 A	1					1.65	1.32							1	20 A	2ND FLR LTG		8
9		2ND FLR LTG	20 A	1						2.73	3.2						1	20 A	1ST FLR LTG		10
11		1ST FLR LTG CORRIDOR	20 A	1							1.93	3.28					1	20 A	2ND FLR LTG		12
13		NW PARKING POLES	20 A	1					2.31	1.18							1	20 A	2ND FLR LTG		14
15		1ST FLR LTG	20 A	1							4.15	0	--	--	--	--	1	20 A	SPARE	--	16
17		1ST FLR LTG	20 A	1								4.23	0	--	--	--	1	20 A	SPARE	--	18
19	--	SPARE	20 A	1	--	--	--	--	0	0				--	--	--	1	20 A	SPARE	--	20
21	--	SPARE	20 A	1	--	--	--	--			0	0		--	--	--	1	20 A	SPARE	--	22
23	--	SPARE	20 A	1	--	--	--	--					0	0	--	--	1	20 A	SPARE	--	24
25	--	SPACE	--	1	--	--	--	--	--	--				--	--	--	1	--	SPACE	--	26
27	--	SPACE	--	1	--	--	--	--			--	--		--	--	--	1	--	SPACE	--	28
29	--	SPACE	--	1	--	--	--	--					--	--	--	--	1	--	SPACE	--	30
								Total Load:	7.82 kVA		11.8 kVA		10.79 kVA							
								Total Amps:	28 A		44 A		41 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	30.4 kVA	125.00%	38 kVA		
				Total Conn. Load:	30.4 kVA
				Total Est. Demand:	38 kVA
				Total Conn.:	37 A
				Total Est. Demand:	46 A

NOTE LEGEND:

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- ALL SINGLE POLE 15 & 20 AMP CIRCUITS SHALL BE PROVIDED WITH (2) #12 AWG CU, #12 CU GND IN 3/4" C. UNLESS NOTED OTHERWISE.
- PROVIDE GROUND BUS & NEUTRAL BUS.
- PROVIDE TYPE WRITTEN DIRECTORY.
- PANEL SHALL BE FULLY RATED
- FOR MULTIPHASE CIRCUITS, CONTRACTOR SHALL PROVIDE A PHASE CONDUCTOR FOR EACH POLE....

Branch Panel: M11

LOCATION: MECHANICAL ROOM 109
SUPPLY FROM: DP1
MOUNTING: Surface
ENCLOSURE: TYPE 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 39kA
MAINS TYPE: MCB
MAINS RATING: 250 A
MCB RATING: 250 A

C...	NOT...	CIRCUIT DESCRIPTION	TRIP	P	Ø	N	G	C.	A	B	C	C.	G	N	Ø	P	TRIP	CIRCUIT DESCRIPTION	NOT...	C...
1		BP-1	30 A	3					5.47	0		--	--	--	--	3	30 A	SPD	--	2
3	--	--	--	--	--	--	--	--		5.47	0	--	--	--	--	--	--	--	--	4
5	--	--	--	--	--	--	--	--			5.47	0	--	--	--	--	--	--	--	6
7		EAST GATE MOTOR	15 A	3					0.94	0.17						3	15 A	NW GATE		8
9	--	--	--	--	--	--	--	--		0.94	0.17								--	10
11	--	--	--	--	--	--	--	--			0.94	0.17	--	--	--	--	--	--	--	12
13		SE GATE MOTOR	15 A	3					0.94	1						1	15 A	VAV-1-14		14
15	--	--	--	--	--	--	--	--		0.94	1					1	15 A	VAV-1-16		16
17	--	--	--	--	--	--	--	--			0.94	2				1	15 A	VAV-1-15		18
19		VAV-1-19	15 A	1					3	6						1	30 A	VAV-1-6		20
21		VAV-1-1	15 A	1							2.5	3				1	15 A	VAV-1-21		22
23		VAV-1-25	20 A	1								4	4			1	20 A	VAV-1-4		24
25		VAV-1-2	15 A	1					2	2.5						1	15 A	VAV-1-24		26
27		VAV-1-11	20 A	1							3.5	2				1	15 A	VAV-1-3		28
29		VAV-1-6	15 A	1								2	2.5			1	15 A	VAV-1-8		30
31		VAV-1-12	20 A	1					3.5	4.5						1	25 A	VAV-1-18		32
33		VAV-1-27	15 A	1							2.5	3.5				1	20 A	VAV-1-13		34
35		VAV-1-22	20 A	1								3.5	4.5			1	25 A	VAV-1-7		36
37		VAV-1-17	20 A	1					5	5.5						1	25 A	VAV-1-10		38
39		VAV-1-29	25 A	1							4.5	5				1	25 A	VAV-1-22		40
41		VAV-1-20	25 A	1								5	5.5			1	25 A	VAV-1-5		42
43		VAV-1-28A	40 A	1					8	0				--	--	--	--	1	20 A	SPARE	--	44
45		VAV-1-23	25 A	1							5.5	8				1	40 A	VAV-1-28B		46
47		VAV-1-9	40 A	1								8	0	--	--	--	--	1	20 A	SPARE	--	48
49	--	SPARE	20 A	1	--	--	--	--	0	0				--	--	--	--	1	20 A	SPARE	--	50
51	--	SPARE	20 A	1	--	--	--	--			0	0		--	--	--	--	1	20 A	SPARE	--	52
53	--	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	1	20 A	SPARE	--	54
								Total Load:	48.53 kVA		48.53 kVA		48.53 kVA							
								Total Amps:	175 A		175 A		175 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Heating	123 kVA	100.00%	123 kVA		
Motor	22.58 kVA	118.18%	26.69 kVA	**Total Conn. Load:**	145.58 kVA
				Total Est. Demand:	149.69 kVA
				Total Conn.:	175 A
				Total Est. Demand:	180 A

NOTE LEGEND:

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- ALL SINGLE POLE 15 & 20 AMP CIRCUITS SHALL BE PROVIDED WITH (2) #12 AWG CU, #12 CU GND IN 3/4" C. UNLESS NOTED OTHERWISE.
- PROVIDE GROUND BUS & NEUTRAL BUS.
- PROVIDE TYPE WRITTEN DIRECTORY.
- PANEL SHALL BE FULLY RATED
- FOR MULTIPHASE CIRCUITS, CONTRACTOR SHALL PROVIDE A PHASE CONDUCTOR FOR EACH POLE....

Branch Panel: M21

LOCATION: MECHANICAL ROOM 206
SUPPLY FROM: DP1
MOUNTING: Surface
ENCLOSURE: TYPE 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 39kA
MAINS TYPE: MCB
MAINS RATING: 250 A
MCB RATING: 250 A

C...	NOT...	CIRCUIT DESCRIPTION	TRIP	P	Ø	N	G	C.	A	B	C	C.	G	N	Ø	P	TRIP	CIRCUIT DESCRIPTION	NOT...	C...
1		VAV-2-9	20 A	3					4	0		--	--	--	--	3	30 A	SPD	--	2
3	--	--	--	--	--	--	--	--		4	0	--	--	--	--	--	--	--	--	4
5	--	--	--	--	--	--	--	--			4	0	--	--	--	--	--	--	--	6
7		VAV-2-28	20 A	3					3	3						3	15 A	VAV-2-25		8
9	--	--	--	--	--	--	--	--		--	3	3	--	--	--	--	--	--	--	10
11	--	--	--	--	--	--	--	--			3	3	--	--	--	--	--	--	--	12
13									2.5							1	15 A	VAV-2-4		14
15											5					1	25 A	VAV-2-6		16
17		VAV-2-15	15 A	1								2.5	3			1	15 A	VAV-2-19		18
19		VAV-2-8	25 A	1					4.5	5						1	25 A	VAV-2-11B		20
21		VAV-2-11A	30 A	1							6.5	2				1	20 A	VAV-2-16		22
23		VAV-2-24	40 A	1								8	2			1	15 A	VAV-2-2		24
25		VAV-2-23	15 A	1					2	2						1	15 A	VAV-2-18		26
27		VAV-2-20	15 A	1							2	2				1	15 A	VAV-2-12		28
29		VAV-2-21	15 A	1								3.5	2			1	15 A	VAV-2-14		30
31		VAV-2-3	15 A	1					2	2.5						1	15 A	VAV-2-22		32
33		VAV-2-26	15 A	1							2.5	3				1	15 A	VAV-2-27		34
35		VAV-2-10	15 A	1								2.5	3			1	15 A	VAV-2-5		36
37		VAV-2-17	15 A	1					3	3.5						1	20 A	VAV-2-13		38
39		VAV-2-29	20 A	1							3.5	0		--	--	--	--	1	20 A	SPARE	--	40
41		VAV-2-7	20 A	1								3.5	0	--	--	--	--	1	20 A	SPARE	--	42
43	--	SPARE	20 A	1	--	--	--	--	0	0				--	--	--	--	1	20 A	SPARE	--	44
45	--	SPARE	20 A	1	--	--	--	--			0	0		--	--	--	--	1	20 A	SPARE	--	46
47	--	SPARE	20 A	1	--	--	--	--				0	0	--	--	--	--	1	20 A	SPARE	--	48
49	--	SPARE	20 A	1	--	--	--	--	0	0				--	--	--	--	1	20 A	SPARE	--	50
51	--	SPARE	20 A	1	--	--	--	--			0	0		--	--	--	--	1	20 A	SPARE	--	52
53	--	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	1	20 A	SPARE	--	54
								Total Load:	37 kVA		36.5 kVA		40 kVA							
								Total Amps:	134 A		132 A		145 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Heating	113.5 kVA	100.00%	113.5 kVA		
				Total Conn. Load:	113.5 kVA
				Total Est. Demand:	113.5 kVA
				Total Conn.:	137 A
				Total Est. Demand:	137 A

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- PANEL SHALL BE FULLY RATED
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FILE NAME: Autodesk Docs:// 1007657.00 - CORE - City of Riviera Beach D/RBPD_MEPF_R24.rvt
DATE STAMP: 10/23/2025 11:53:17 AM

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

ARCHITECT OF RECORD

PGAL

PGAL, Inc.
791 Park of Commerce Blvd.
Suite 400
Boca Raton, FL 33487
T 561 988 4002
www.pgal.com

CONSTRUCTION MANAGER/BUILDER

CORE CONSTRUCTION
1641 Worthington Rd
West Palm Beach
FL 33409

PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

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4 HARVARD CIRCLE, SUITE 600
WEST PALM BEACH, FL 33409
FL. REG. NO.: PE63143

DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

CMTA
A LEGENCE Company
4 Harvard Cir, Suite 600 | West Palm Beach, FL 33409
561.688.6075 | cmta.com

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
SCHEDULES - ELECTRICAL

SHEET NUMBER
E7.02

Branch Panel: P25

LOCATION: MECHANICAL ROOM 206 | **VOLTS:** 120/208 Wye | **A.I.C. RATING:** 22kA
SUPPLY FROM: DP3 | **PHASES:** 3 | **MAINS TYPE:** MCB
MOUNTING: Surface | **WIRES:** 4 | **MAINS RATING:** 225 A
ENCLOSURE: TYPE 1 | **MCB RATING:** 225 A

C..	NOT..	CIRCUIT DESCRIPTION	TRIP	P	Ø	N	G	C.	A	B	C	C.	G	N	Ø	P	TRIP	CIRCUIT DESCRIPTION	NOT..	C..
1		P26	100 A	3					7.32	0							3	30 A SPD	--	2
3	--	--	--	--	--	--	--	--	--	7.32	0	--	--	--	--	--	--	--	--	4
5	--	--	--	--	--	--	--	--	--	--	7.22	0	--	--	--	--	--	--	--	6
7		EF-2	15 A	1					0.53	0.86							1	20 A REC. 201		8
9		EF-3	15 A	1						0.53	1.5						1	20 A MICROWAVE 201A		10
11		REFRIGERATOR 201A	20 A	1							0.58	0.72					1	20 A REC. 201B		12
13		REC. 201A	20 A	1					0.36	0.72							1	20 A REC. 201B FLR BOX		14
15		REC. 201A	20 A	1						0.36	0.72						1	20 A REC. 201B FLR BOX		16
17		ROOF REC.	20 A	1							0.36	0.72					1	20 A REC. 201B FLR BOX		18
19		COPIER. 207	20 A	1					1.5	0.72							1	20 A POKE-THRU 218		20
21		AV DISPLAY RECS. 121	20 A	1							1	0.72					1	20 A POKE-THRU 218		22
23		PCKE-THRU 218	20 A	1									0.72	0.72			1	20 A AV DISPLAY RECS. 218		24
25		AV DISPLAY RECS. 218	20 A	1					1.08	1.5							1	20 A AV REC. 218		26
27		AV REC. 218	20 A	1							1.5	1.5					1	20 A AV REC. 218		28
29		AV REC. 218	20 A	1									1.5	1.5			1	20 A AV REC. 218		30
31		AV REC. 218	20 A	1					1.5	0.7							1	15 A EF-1		32
33		AV REC. 218	20 A	1							1.5	0.83					2	20 A CU-1-2		34
35		AV REC. 218	20 A	1									1.5	0.83	--	--	--	--	--	36
37		CU-2-1	15 A	2					0.83											38
39	--	--	--	--	--	--	--	--	--	0.83										40
41																				42
43																				44
45																				46
47																				48
49																				50
51																				52
53																				54
								Total Load:	17.62 kVA	18.31 kVA	16.37 kVA									
								Total Amps:	148 A	154 A	136 A									

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	12 kVA	100.00%	12 kVA		
Motor	5.08 kVA	108.17%	5.5 kVA	**Total Conn. Load:**	52.3 kVA
Receptacle	35.22 kVA	64.20%	22.61 kVA	**Total Est. Demand:**	40.11 kVA
				Total Conn.:	145 A
				Total Est. Demand:	111 A

NOTE LEGEND:

*** REFER TO POWER RISER FOR FEEDER WIRE AND CONDUIT SIZES.**

G = GFCI TYPE BREAKER
A = AFCI TYPE BREAKER
ST = SHUNT TRIP BREAKER
RL = RED, LOCKABLE BREAKER
E = EXISTING BREAKER
LSI = LSI ADJUSTABLE TRIP BREAKER

- ALL SINGLE POLE 15 & 20 AMP CIRCUITS SHALL BE PROVIDED WITH (2) #12 AWG CU, #12 CU GND IN 3/4" C. UNLESS NOTED OTHERWISE.
- PROVIDE GROUND BUS & NEUTRAL BUS.
- PROVIDE TYPE WRITTEN DIRECTORY.
- PANEL SHALL BE FULLY RATED
- FOR MULTIPHASE CIRCUITS, CONTRACTOR SHALL PROVIDE A PHASE CONDUCTOR FOR EACH POLE....

Branch Panel: P12

LOCATION: MECHANICAL ROOM 109 | **VOLTS:** 120/208 Wye | **A.I.C. RATING:** 22kA
SUPPLY FROM: P11 | **PHASES:** 3 | **MAINS TYPE:** MLO
MOUNTING: Surface | **WIRES:** 4 | **MAINS RATING:** 225 A
ENCLOSURE: TYPE 1

C..	NOT..	CIRCUIT DESCRIPTION	TRIP	P	Ø	N	G	C.	A	B	C	C.	G	N	Ø	P	TRIP	CIRCUIT DESCRIPTION	NOT..	C..
1		RCP-1	20 A	1					0.11	0							3	30 A SPD	--	2
3		MASTER WATER CONTROLLER	20 A	1						0.25	0						--	--	--	4
5		ARCH ENTRY LTG	20 A	1							0.6	0	--	--	--	--	--	--	--	5
7		AIRCLEAN 4000	20 A	1					0.72	0.9							1	20 A REC. 103		8
9		HLDG CELL FLSH VALVES	20 A	1						0.4	0.54						1	20 A EAST LTG POLE REC.		10
11		CYANOCHAMBER	20 A	1							0.72	1.4					1	20 A REC. 104/105		12
13		DOG WALK REC.	20 A	1					0.36	0.55							1	20 A SALLY PORT FANS		14
15		VAC/AIR MACHINE	20 A	1						1.25	0.55		--	--	--	--	--	--	--	16
17	--	SPARE	20 A	1	--	--	--	--				0	0.55	--	--	--	--	--	--	18
19		REC. 109/110	20 A	1					0.36	0.54							1	20 A EXT REC.		20
21		EAST LTG POLE REC.	20 A	1							0.36	0.54					1	20 A N/W LTG POLE REC.		22
23		REC. CORRIDOR	20 A	1									0.54	0.72			1	20 A AV DISPLAY RECS. 113A/B/C/D		24
25		REC. 108	20 A	1					0.72	0.72							1	20 A EXT REC.		26
27		REC. 111	20 A	1							0.72	0.72					1	20 A REC. 102		28
29		REC. 106	20 A	1									0.72	1			1	20 A REC. 103		30
31		REC. 103	20 A	1					1	1							1	20 A ENTRY DIGITAL DISPLAYS		32
33		REC. 103	20 A	1							1	1					1	20 A REC. 102		34
35		REC. 102	20 A	1									1	1.04			1	20 A REC.102C		36
37		REC. 102B	20 A	1					1.04	1.5							1	20 A COPIER. 101		38
39		REC. 103A	20 A	1						1.04	1.5						1	20 A COPIER. 102		40
41		REC. 103	20 A	1								1.5	0	--	--	--	--	SPARE	--	42
43	--	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	1 20 A SPARE	--	44
45	--	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	1 20 A SPARE	--	46
47	--	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	1 20 A SPARE	--	48
49	--	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	1 20 A SPARE	--	50
51	--	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	1 20 A SPARE	--	52
53	--	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	1 20 A SPARE	--	54
								Total Load:	9.52 kVA	9.87 kVA	9.79 kVA									
								Total Amps:	79 A	83 A	82 A									

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	1.25 kVA	100.00%	1.25 kVA		
Motor	3.02 kVA	112.09%	3.39 kVA	**Total Conn. Load:**	29.19 kVA
Receptacle	24.32 kVA	70.56%	17.16 kVA	**Total Est. Demand:**	22.55 kVA
Lighting	0.6 kVA	125.00%	0.75 kVA	**Total Conn.:**	81 A
				Total Est. Demand:	63 A

NOTE LEGEND:

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ST = SHUNT TRIP BREAKER
RL = RED, LOCKABLE BREAKER
E = EXISTING BREAKER
LSI = LSI ADJUSTABLE TRIP BREAKER

- ALL SINGLE POLE 15 & 20 AMP CIRCUITS SHALL BE PROVIDED WITH (2) #12 AWG CU, #12 CU GND IN 3/4" C. UNLESS NOTED OTHERWISE.
- PROVIDE GROUND BUS & NEUTRAL BUS.
- PROVIDE TYPE WRITTEN DIRECTORY.
- PANEL SHALL BE FULLY RATED
- FOR MULTIPHASE CIRCUITS, CONTRACTOR SHALL PROVIDE A PHASE CONDUCTOR FOR EACH POLE....

Branch Panel: P11

LOCATION: MECHANICAL ROOM 109 | **VOLTS:** 120/208 Wye | **A.I.C. RATING:** 22kA
SUPPLY FROM: DP3 | **PHASES:** 3 | **MAINS TYPE:** MCB
MOUNTING: Surface | **WIRES:** 4 | **MAINS RATING:** 225 A
ENCLOSURE: TYPE 1 | **MCB RATING:** 225 A

C..	NOT..	CIRCUIT DESCRIPTION	TRIP	P	Ø	N	G	C.	A	B	C	C.	G	N	Ø	P	TRIP	CIRCUIT DESCRIPTION	NOT..	C..
1		P12	100 A	3													3	30 A SPD	--	2
3	--	--	--	--	--	--	--	--	9.52	0							--	--	--	4
5	--	--	--	--	--	--	--	--		9.87	0						--	--	--	6
7		GWH-1	20 A	1					0.2	0.58							1	20 A EWC	(G)	8
9		REC. 112B	20 A	1							0.36	0.58					1	20 A REFRIGERATOR 112B		10
11		REC. 101	20 A	1									0.54	0.72			1	20 A REC. 100		12
13		REC. 113	20 A	1					0.9	1.08							1	20 A REC. 134		14
15		REC. 101	20 A	1							1	1.04					1	20 A REC. 112A		16
17		REC. 101C	20 A	1									1.04	1.5			1	20 A COPIER. 100M		18
19		REC. 112B	20 A	1					1.26	1.62							1	20 A REC. 107		20
21		REC. 114A/B/C	20 A	1							1.26	1.44					1	20 A REC. 113 FLR BOX		22
23		COPIER. 101	20 A	1									1.5	0.72			1	20 A REC. CORRIDOR		24
25		REC. 101A/B	20 A	1					0.72	1							1	20 A REC. 112		26
27		REC. 112	20 A	1							0.72	1					1	20 A REC. 112		28
29		REC. 112	20 A	1									1	1			1	20 A REC. 112		30
31		REC. 101	20 A	1					1	1.5							1	20 A REC. 101		32
33		REC. 101A	20 A	1							1	1.5					1	20 A REC. 107 CONTROL		34
35		REC. 107 CONTROL	20 A	1									1.5	0.58			3	20 A ARMORY ROLL UP		36
37		SALLY PORT ROLL UP	20 A	3					1.32	0.58					--	--	--	--	--	38
39	--	--	--	--	--	--	--	--		1.32	0.58				--	--	--	--	--	40
41	--	--	--	--	--	--	--	--	--	--		1.32	1.32				3	30 A SALLY PORT ROLL UP		42
43	--	SPARE	20 A	1	--	--	--	--	0	1.32					--	--	--	--	--	44
45	--	SPARE	20 A	1	--	--	--	--			0	1.32			--	--	--	--	--	46
47	--	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	1 20 A SPARE	--	48
49	--	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	1 20 A SPARE	--	50
51	--	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	1 20 A SPARE	--	52
53	--	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	1 20 A SPARE	--	54
								Total Load:	22.6 kVA	22.99 kVA	22.53 kVA									
								Total Amps:	188 A	192 A	188 A									

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	1.45 kVA	100.00%	1.45 kVA		
Motor	12.67 kVA	107.81%	13.66 kVA	**Total Conn. Load:**	68.12 kVA
Receptacle	53.4 kVA	59.36%	31.7 kVA	**Total Est. Demand:**	47.56 kVA
Lighting	0.6 kVA	125.00%	0.75 kVA	**Total Conn.:**	189 A
				Total Est. Demand:	132 A

NOTE LEGEND:

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RL = RED, LOCKABLE BREAKER
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LSI = LSI ADJUSTABLE TRIP BREAKER

- ALL SINGLE POLE 15 & 20 AMP CIRCUITS SHALL BE PROVIDED WITH (2) #12 AWG CU, #12 CU GND IN 3/4" C. UNLESS NOTED OTHERWISE.
- PROVIDE GROUND BUS & NEUTRAL BUS.
- PROVIDE TYPE WRITTEN DIRECTORY.
- PANEL SHALL BE FULLY RATED
- FOR MULTIPHASE CIRCUITS, CONTRACTOR SHALL PROVIDE A PHASE CONDUCTOR FOR EACH POLE....

Branch Panel: P26

LOCATION: MECHANICAL ROOM 206 | **VOLTS:** 120/208 Wye | **A.I.C. RATING:** 22kA
SUPPLY FROM: DP3 | **PHASES:** 3 | **MAINS TYPE:** MLO
MOUNTING: Surface | **WIRES:** 4 | **MAINS RATING:** 100 A
ENCLOSURE: TYPE 1

C..	NOT..	CIRCUIT DESCRIPTION	TRIP	P	Ø	N	G	C.	A	B	C	C.	G	N	Ø	P	TRIP	CIRCUIT DESCRIPTION	NOT..	C..
1		REC. 205A/B/C	20 A	1					0.54	0							3	30 A SPD	--	2
3		REC. CORRIDOR	20 A	1						0.54	0						--	--	--	4
5		REC. 206	20 A	1							0.72	0	--	--	--	--	--	--	--	6
7	G	EWC	20 A	1					0.58	1.5							1	20 A REC. 203		8
9		REC. 204D	20 A	1						1.04	1.04						1	20 A REC. 204F		10
11		REC. 203	20 A	1							0.9	0.9					1	20 A REC. 208		12
13		REC. 205	20 A	1					1.04	1.22							1	20 A REC. 204A		14
15		REC. 210	20 A	1							1.04	1.22					1	20 A REC. 204B		16
17		REC. 211	20 A	1								1.04	1.22				1	20 A REC. 204C		18
19		REC. 203D	20 A	1					1.22	1.22							1	20 A REC. 203A		20
21		REC. 203E	20 A	1							1.22	1.22					1	20 A REC. 203B		22
23		REC. 204	20 A	1									1.22	1.22			1	20 A REC. 203C		24
25	--	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	1 20 A SPARE	--	26
27	--	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	1 20 A SPARE	--	28
29	--	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	1 20 A SPARE	--	30
								Total Load:	7.32 kVA	7.32 kVA	7.22 kVA									
								Total Amps:	61 A	61 A	60 A									

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	21.86 kVA	72.87%	15.93 kVA		
				Total Conn. Load:	21.86 kVA
				Total Est. Demand:	15.93 kVA
				Total Conn.:	61 A
				Total Est. Demand:	44 A

NOTE LEGEND:

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RL = RED, LOCKABLE BREAKER
E = EXISTING BREAKER
LSI = LSI ADJUSTABLE TRIP BREAKER

- ALL SINGLE POLE 15 & 20 AMP CIRCUITS SHALL BE PROVIDED WITH (2) #12 AWG CU, #12 CU GND IN 3/4" C. UNLESS NOTED OTHERWISE.
- PROVIDE GROUND BUS & NEUTRAL BUS.
- PROVIDE TYPE WRITTEN DIRECTORY.
- PANEL SHALL BE FULLY RATED
- FOR MULTIPHASE CIRCUITS, CONTRACTOR SHALL PROVIDE A PHASE CONDUCTOR FOR EACH POLE....

Branch Panel: P24

LOCATION: MAIN ELECTRICAL ROOM 224 | **VOLTS:** 120/208 Wye | **A.I.C. RATING:** 22kA
SUPPLY FROM: P23 | **PHASES:** 3 | **MAINS TYPE:** MLO
MOUNTING: Surface | **WIRES:** 4 | **MAINS RATING:** 225 A
ENCLOSURE: TYPE 1

C..	NOT..	CIRCUIT DESCRIPTION	TRIP	P	Ø	N	G	C.	A	B	C	C.	G	N	Ø	P	TRIP	CIRCUIT DESCRIPTION	NOT..	C..
1		REC. 216	20 A	1					0.54	0							3	30 A SPD	--	2
3	G	EWC	20 A	1						0.6	0						--	--	--	4
5		REC. RM. 207	20 A	1								0.9	0	--	--	--	--	--	--	6
7		REC. RM. 207A	20 A	1					1.04	1.36							1	20 A REC. RM. 220		8
9		REC. RM. 214	20 A	1						0.72	1.5						1	20 A REC. RM. 207		10
11		REC. RM. 207	20 A	1								1	1.04				1	20 A REC. RM. 207B		12
13		REC. RM. 207	20 A	1					1	1							1	20 A REC. RM. 207		14
15		REC. RM. 214	20 A	1						1	1						1	20 A REC. RM. 207		16
17		REC. RM. 214	20 A	1								1	1				1	20 A REC. RM. 207		18
19		REC. RM. 221	20 A	1					1.04	1.04							1	20 A REC. RM. 207C		20
21		REC. RM. 222	20 A	1							1.04	1.04					1	20 A REC. RM. 207D		22
23		REC. RM. 223	20 A	1									1.04	1.04			1	20 A REC. RM. 214A		24
25		REC. RM. 207	20 A	1					1.5	0.4							3	20 A GYM FANS		26
27		REC. RM. 207	20 A	1						1.5	0.4						--	--	--	28
29		REC. RM. 207	20 A	1								1.5	0.4				--	--	--	30
31	--	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	1 20 A SPARE	--	32
33	--	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	1 20 A SPARE	--	34
35	--	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	1 20 A SPARE	--	36
37	--	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	1 20 A SPARE	--	38
39	--	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	1 20 A SPARE	--	40
41	--	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	1 20 A SPARE	--	42
								Total Load:	8.92 kVA	8.8 kVA	8.92 kVA									
								Total Amps:	74 A	73 A	74 A									

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	1.2 kVA	104.17%	1.25 kVA		
Receptacle	25.44 kVA	69.65%	17.72 kVA	**Total Conn. Load:**	26.64 kVA
				Total Est. Demand:	18.97 kVA
				Total Conn.:	74 A
				Total Est. Demand:	53 A

NOTE LEGEND:

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RL = RED, LOCKABLE BREAKER
E = EXISTING BREAKER
LSI = LSI ADJUSTABLE TRIP BREAKER

- ALL SINGLE POLE 15 & 20 AMP CIRCUITS SHALL BE PROVIDED WITH (2) #12 AWG CU, #12 CU GND IN 3/4" C. UNLESS NOTED OTHERWISE.
- PROVIDE GROUND BUS & NEUTRAL BUS.
- PROVIDE TYPE WRITTEN DIRECTORY.
- PANEL SHALL BE FULLY RATED
- FOR MULTIPHASE CIRCUITS, CONTRACTOR SHALL PROVIDE A PHASE CONDUCTOR FOR EACH POLE....

Branch Panel: P23

LOCATION: MAIN ELECTRICAL ROOM 224 | **VOLTS:** 120/208 Wye | **A.I.C. RATING:** 22kA
SUPPLY FROM: DP3 | **PHASES:** 3 | **MAINS TYPE:** MLO
MOUNTING: Surface | **WIRES:** 4 | **MAINS RATING:** 225 A
ENCLOSURE: TYPE 1

C..	NOT..	CIRCUIT DESCRIPTION	TRIP	P	Ø	N	G	C.	A	B	C	C.	G	N	Ø	P	TRIP	CIRCUIT DESCRIPTION	NOT..	C..
1		P24	100 A	3					8.92	0							3	30 A SPD	--	2
3	--	--	--	--	--	--	--	--		8.8	0						--	--	--	4
5	--	--	--	--	--	--	--	--	--		8.92	0	--	--	--	--	--	--	--	6
7		REC. 218C	20 A	1					0.18	0.8							1	20 A MOTOR SHADES 201B		8
9		ROOF REC.	20 A	1						0.18	1						1	20 A REC. RM. 219		10
11		REFRIGERATOR 216	20 A	1							0.58	0.86					1	20 A REC. RM. 218A		12
13		REC. RM. 219	20 A	1					0.86	0.9							1	20 A REC. CORRIDOR		14
15		REC. 202A	20 A	1						1.4	1.4						1	20 A REC. 202B		16
17		REC. 202C/D/E	20 A	1							1.62	1.1					2	15 A DRONE STATION		18
19		REC. 202	20 A	1					1.22	1.1					--	--	--	--	--	20
21		DRONE STATION	15 A	2						1.1	0.25						1	20 A NW CAMERA POLE		22
23	--	--	--	--	--	--	--	--	--	--	1.1	0.25					1	20 A WEST CAMERA POLE		24
25		NE CAMERA POLE REC.	20 A	1					0.25	0.36							1	20 A REC. 216		26
27		REC. 218	20 A	1						0.36	0.54						1	20 A REC. 218		28
29		REC. PATIO	20 A	1							0.36	0.54					1	20 A REC. 218		30
31		REC. 215	20 A	1					0.54	0.72							1	20 A REC. 215		32
33		REC. 218B	20 A	1							0.72	1.5					1	20 A COPIER. 214		34
35		REC. 218B	20 A	1									0.72	1.5			1	20 A MICROWAVE 216		36
37		COPIER. 202	20 A	1					1.5	0					--	--	--	--	--	38
39	--	SPARE	20 A	1	--	--	--	--		0	0				--	--	--	1 20 A SPARE	--	40
41	--	SPARE	20 A	1	--	--	--	--				0	0		--	--	--	1 20 A SPARE	--	42
43	--	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	1 20 A SPARE	--	44
45	--	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	1 20 A SPARE	--	46
47	--	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	1 20 A SPARE	--	48
49	--	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	1 20 A SPARE	--	50
51	--	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	1 20 A SPARE	--	52
53	--	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	1 20 A SPARE	--	54
								Total Load:	17.35 kVA	17.25 kVA	17.55 kVA									
								Total Amps:	145 A	144 A	146 A									

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	5.15 kVA	100.00%	5.15 kVA		
Motor	2 kVA	110.00%	2.2 kVA	**Total Conn. Load:**	52.15 kVA
Receptacle	45 kVA	61.11%	27.5 kVA	**Total Est. Demand:**	34.85 kVA
				Total Conn.:	145 A
				Total Est. Demand:	97 A

NOTE LEGEND:

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RL = RED, LOCKABLE BREAKER
E = EXISTING BREAKER
LSI = LSI ADJUSTABLE TRIP BREAKER

- ALL SINGLE POLE 15 & 20 AMP CIRCUITS SHALL BE PROVIDED WITH (2) #12 AWG CU, #12 CU GND IN 3/4" C. UNLESS NOTED OTHERWISE.
- PROVIDE GROUND BUS & NEUTRAL BUS.
- PROVIDE TYPE WRITTEN DIRECTORY.
- PANEL SHALL BE FULLY RATED
- FOR MULTIPHASE CIRCUITS, CONTRACTOR SHALL PROVIDE A PHASE CONDUCTOR FOR EACH POLE....

Branch Panel: P22

LOCATION: MAIN ELECTRICAL ROOM 224 | **VOLTS:** 120/208 Wye | **A.I.C. RATING:** 22kA
SUPPLY FROM: P21 | **PHASES:** 3 | **MAINS TYPE:** MLO
MOUNTING: Surface | **WIRES:** 4 | **MAINS RATING:** 225 A
ENCLOSURE: TYPE 1

| C.. | NOT.. | CIRCUIT DESCRIPTION | TRIP | P | Ø | N | G | C. | A | B | C | C. | G | N | Ø | P | TRIP | CIRCUIT DESCRIPTION | NOT.. | C.. |
|---|---|---|---|---|---|---

Branch Panel: EV1

LOCATION: OUTDOOR STORAGE 133
SUPPLY FROM: TX-EV
MOUNTING: Surface
ENCLOSURE: TYPE 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 22kA
MAINS TYPE: MCB
MAINS RATING: 400 A
MCB RATING: 400 A

C...	NOT...	CIRCUIT DESCRIPTION	TRIP	P	Ø	N	G	C.	A	B	C	C.	G	N	Ø	P	TRIP	CIRCUIT DESCRIPTION	NOT...	C...
1		LEVEL 2 EV CHARGER	100 A	2					8.32 0			--	--	--	3	30 A	SPD	--	2
3	--	--	--	--	--	--	--	--		8.32 0		--	--	--	--	--	--	--	--	4
5	--	SPACE	--	1	--	--	--	--			-- 0	--	--	--	--	--	--	--	--	6
7		LEVEL 2 EV CHARGER	100 A	2					8.32 8.32							2	100 A	LEVEL 2 EV CHARGER		8
9	--	--	--	--	--	--	--	--		8.32 8.32		--	--	--	--	--	--	--	--	10
11		LEVEL 2 EV CHARGER	100 A	2							8.32 8.32					2	100 A	LEVEL 2 EV CHARGER		12
13	--	--	--	--	--	--	--	--	8.32 8.32			--	--	--	--	--	--	--	--	14
15		LEVEL 2 EV CHARGER	100 A	2						8.32 8.32						2	100 A	LEVEL 2 EV CHARGER		16
17	--	--	--	--	--	--	--	--			8.32 8.32	--	--	--	--	--	--	--	--	18
19	--	SPACE	--	1	--	--	--	--	-- --			--	--	--	--	1	--	SPACE	--	20
21		LEVEL 2 EV CHARGER	100 A	2						8.32 --		--	--	--	--	1	--	SPACE	--	22
23	--	--	--	--	--	--	--	--			8.32 --	--	--	--	--	1	--	SPACE	--	24
25	--	SPACE	--	1	--	--	--	--	-- --			--	--	--	--	1	--	SPACE	--	26
27	--	SPACE	--	1	--	--	--	--		-- --		--	--	--	--	1	--	SPACE	--	28
29	--	SPACE	--	1	--	--	--	--			-- --	--	--	--	--	1	--	SPACE	--	30
31	--	SPACE	--	1	--	--	--	--	-- --			--	--	--	--	1	--	SPACE	--	32
33	--	SPACE	--	1	--	--	--	--		-- --		--	--	--	--	1	--	SPACE	--	34
35	--	SPACE	--	1	--	--	--	--			-- --	--	--	--	--	1	--	SPACE	--	36
37	--	SPACE	--	1	--	--	--	--	-- --			--	--	--	--	1	--	SPACE	--	38
39	--	SPACE	--	1	--	--	--	--		-- --		--	--	--	--	1	--	SPACE	--	40
41	--	SPACE	--	1	--	--	--	--			-- --	--	--	--	--	1	--	SPACE	--	42
								Total Load:	41.6 kVA	49.92 kVA	41.6 kVA								
								Total Amps:	347 A	416 A	347 A								

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	133.12 kVA	100.00%	133.12 kVA		
				Total Conn. Load:	133.12 kVA
				Total Est. Demand:	133.12 kVA
				Total Conn.:	370 A
				Total Est. Demand:	370 A

NOTE LEGEND:

*** REFER TO POWER RISER FOR FEEDER WIRE AND CONDUIT SIZES.**

G = GFCI TYPE BREAKER
A = AFCI TYPE BREAKER
ST = SHUNT TRIP BREAKER
RL = RED, LOCKABLE BREAKER
E = EXISTING BREAKER
LSI = LSI ADJUSTABLE TRIP BREAKER

- ALL SINGLE POLE 15 & 20 AMP CIRCUITS SHALL BE PROVIDED WITH (2) #12 AWG CU, #12 CU GND IN 3/4" C. UNLESS NOTED OTHERWISE.
- PROVIDE GROUND BUS & NEUTRAL BUS.
- PROVIDE TYPE WRITTEN DIRECTORY.
- PANEL SHALL BE FULLY RATED
- FOR MULTIPHASE CIRCUITS, CONTRACTOR SHALL PROVIDE A PHASE CONDUCTOR FOR EACH POLE....

Branch Panel: C21

LOCATION: MECHANICAL ROOM 206
SUPPLY FROM: DP4
MOUNTING: Surface
ENCLOSURE: TYPE 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 22kA
MAINS TYPE: MLO
MAINS RATING: 225 A

C...	NOT...	CIRCUIT DESCRIPTION	TRIP	P	Ø	N	G	C.	A	B	C	C.	G	N	Ø	P	TRIP	CIRCUIT DESCRIPTION	NOT...	C...
1		QUAD REC. IT 110	20 A	1					0.36 0			--	--	--	3	30 A	SPD	--	2
3		QUAD REC. IT 110	20 A	1						0.36 0		--	--	--	--	--	--	--	--	4
5		QUAD REC. IT 212	20 A	1							0.36 0	--	--	--	--	--	--	--	--	6
7		QUAD REC. IT 110	20 A	1					0.36 0.36							1	20 A	QUAD REC. IT 110		8
9		QUAD REC. IT 110	20 A	1						0.36 0.36						1	20 A	QUAD REC. IT 212		10
11		L6-30 REC. IT 110	20 A	2							2.08 0.36					1	20 A	QUAD REC. IT 212		12
13	--	--	--	--	--	--	--	--	2.08 0.36							1	20 A	QUAD REC. IT 212		14
15		L6-30 REC. IT 110	20 A	2						2.08 0.36						1	20 A	QUAD REC. IT 212		16
17	--	--	--	--	--	--	--	--			2.08 0.36					1	20 A	QUAD REC. IT 212		18
19		QUAD REC. IT 212	20 A	1					0.36 0.36							1	20 A	QUAD REC. IT 212		20
21		QUAD REC. IT 212	20 A	1						0.36 0.36						1	20 A	QUAD REC. IT 212		22
23																				24
25																				26
27																				28
29																				30
31																				32
33																				34
35																				36
37																				38
39																				40
41																				42
								Total Load:	4.24 kVA	4.24 kVA	5.24 kVA								
								Total Amps:	35 A	35 A	44 A								

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	8.32 kVA	100.00%	8.32 kVA		
Receptacle	5.4 kVA	100.00%	5.4 kVA		
				Total Conn. Load:	13.72 kVA
				Total Est. Demand:	13.72 kVA
				Total Conn.:	38 A
				Total Est. Demand:	38 A

NOTE LEGEND:

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- PROVIDE GROUND BUS & NEUTRAL BUS.
- PROVIDE TYPE WRITTEN DIRECTORY.
- PANEL SHALL BE FULLY RATED
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Branch Panel: C22

LOCATION: MECHANICAL ROOM 206
SUPPLY FROM: DP4
MOUNTING: Surface
ENCLOSURE: TYPE 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 22kA
MAINS TYPE: MLO
MAINS RATING: 225 A

C...	NOT...	CIRCUIT DESCRIPTION	TRIP	P	Ø	N	G	C.	A	B	C	C.	G	N	Ø	P	TRIP	CIRCUIT DESCRIPTION	NOT...	C...
1		COMS DIPLAY 213	20 A	1					0.52 0			--	--	--	--	3	30 A	SPD	--	2
3		COMS DIPLAY 213	20 A	1						0.52 0		--	--	--	--	--	--	--	--	4
5		REFRIGERATOR 213G	20 A	1							0.58 0	--	--	--	--	--	--	--	--	6
7		REC. 213A	20 A	1					0.86 0.86							1	20 A	REC. 213E		8
9		REC. 213F	20 A	1						0.72 0.72						1	20 A	REC. 213C		10
11		REC. 213G/H	20 A	1							0.9 1.5					1	20 A	MICROWAVE 213G		12
13		REC. 213	20 A	1					0.9 1.5							1	20 A	WORK STATION REC. 213		14
15		REC. 213D	20 A	1						1.04 1.5						1	20 A	WORK STATION REC. 213		16
17		CU-1-1	15 A	2							0.83 1.5					1	20 A	WORK STATION REC. 213		18
19	--	--	--	--	--	--	--	--	0.83 1.5							1	20 A	WORK STATION REC. 213		20
21		WORK STATION REC. 213	20 A	1						1.5 1.5						1	20 A	WORK STATION REC. 213		22
23		WORK STATION REC. 213	20 A	1							1.5 1.5					1	20 A	WORK STATION REC. 213		24
25		WORK STATION REC. 213	20 A	1					1.5 1.5							1	20 A	WORK STATION REC. 213		26
27		WORK STATION REC. 213	20 A	1						1.5										28
29		WORK STATION REC. 213	20 A	1							1.5									30
31																				32
33																				34
35																				36
37																				38
39																				40
41																				42
								Total Load:	9.97 kVA	9 kVA	9.81 kVA								
								Total Amps:	84 A	75 A	83 A								

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	19.04 kVA	100.00%	19.04 kVA		
Motor	1.66 kVA	125.00%	2.08 kVA	**Total Conn. Load:**	28.78 kVA
Receptacle	8.08 kVA	100.00%	8.08 kVA	**Total Est. Demand:**	29.2 kVA
				Total Conn.:	80 A
				Total Est. Demand:	81 A

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CLIENT

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REGISTRATION

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FL REG. NO. 79535143

DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

CMTA
A LEGENCE Company
4 Harvard Cir, Suite 600 | West Palm Beach, FL 33409
561.688.6575 | cmta.com

PROJECT STATUS

90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

1007657.00

SHEET TITLE

SCHEDULES - ELECTRICAL

SHEET NUMBER

E7.04

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/RBPD_MEPF_R24.rvt
DATE STAMP: 10/23/2025 11:53:30 AM

LIGHTING CONTROL PANEL 'LCP' SCHEDULE

PANEL-RELAY#	BRANCH CKT#	AREA	CONTROL	TYPE	DIMMING
LCP#1	L11-1	EAST SITE LIGHTING	TIMECLOCK/PHOTOCELL	PT2/PT3	0-10V
LCP#2	L11-3	SOUTHWEST SITE LIGHTING	TIMECLOCK/PHOTOCELL	SA/SB/PT1	0-10V
LCP#3	L11-11	NORTHWEST SITE LIGHTING	TIMECLOCK/PHOTOCELL	SA/SC/SR/SB/SB2	0-10V
LCP#4	L11-1	EAST FLAG POLE & MONUMENT LIGHTING	TIMECLOCK/PHOTOCELL	TBD	0-10V
LCP#5	LS1-15	EXTERIOR WALLPACK EXIT LIGHTING	TIMECLOCK/PHOTOCELL	W1/W2	0-10V
LCP#6	P12-5	MAIN ENTRY	TIMECLOCK/PHOTOCELL	CUSTOM SIGNAGE	-
LCP#7		SPARE			0-10V
LCP#8		SPARE			0-10V
LCP#9		SPARE			0-10V
LCP#10		SPARE			DALI
LCP#11		SPARE			0-10V
LCP#12		SPARE			0-10V
LCP#13		SPARE			0-10V
LCP#14		SPARE			0-10V
LCP#15		SPARE			0-10V
LCP#16		SPARE			0-10V

NOTES:
1. LIGHTING CONTROL PANEL SHALL BE CAPABLE OF CONTROLLING BOTH INTERIOR AND EXTERIOR LUMINARIES.
2. PROVIDE DRY CONTACT FOR FIRE ALARM CONTROL PANEL INTEGRATION.
3. PROVIDE LIGHTING CONTROL PANEL INTEGRATION WITH BMS SYSTEM FOR CONTROL OF EXTERIOR LIGHTING.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

EQUIPMENT NAME	LOCATION	VOLTAGE/ PHASE	BRANCH O.C.P.	DISCONNECT SWITCH			CONDUCTORS	RACEWAY	NOTES
				SIZE	FUSE	ENCL.			
ROLL UP DOOR	VESTIBULE 104A	208/3	20A/3P	30	-	1	(3) #12 AWG, (1) #12 GND	3/4"	-
ROLL UP DOOR	SALLYPORT 134	208/3	20A/3P	30	-	1	(3) #12 AWG, (1) #12 GND	3/4"	-
ROLL UP DOOR	SALLYPORT 134	208/3	20A/3P	30	-	1	(3) #12 AWG, (1) #12 GND	3/4"	-
RTU-1	ROOF	480/3	125A/3P	200A	125A	3R	(3) #1 AWG, (1) #6 GND	2"	-
RTU-2	ROOF	480/3	125A/3P	200A	125A	3R	(3) #1 AWG, (1) #6 GND	2"	-
RTU-3	ROOF	480/3	125A/3P	200A	125A	3R	(3) #1 AWG, (1) #6 GND	2"	-
ERV-1	ROOF	480/3	15A/3P	30A	15A	3R	(3) #12 AWG, (1) #12 GND	3/4"	-
CRO-2-1	ROOF	480/3	15A/3P	30A	15A	3R	(3) #12 AWG, (1) #12 GND	3/4"	-
CRI-2-1	IT ROOM 212	480/3	40A/3P	60A	-	1	(3) #8 AWG, (1) #10 GND	1"	-
CU-1-1	ROOF	208/1	15A/2P	30A	15A	3R	(2) #12 AWG, (1) #12 GND	3/4"	(1)
CU-1-1	ROOF	208/1	15A/2P	30A	15A	3R	(2) #12 AWG, (1) #12 GND	3/4"	(1)
CU-2-1	ROOF	208/1	15A/2P	30A	15A	3R	(2) #12 AWG, (1) #12 GND	3/4"	(1)
EF-1	ROOF	120/1	15A/1P	30A	-	3R	(2) #12 AWG, (1) #12 GND	3/4"	-
EF-2	ROOF	120/1	15A/1P	30A	-	3R	(2) #12 AWG, (1) #12 GND	3/4"	-
EF-3	ROOF	120/1	15A/1P	30A	-	3R	(2) #12 AWG, (1) #12 GND	3/4"	-
EF-4	GENERATOR BLDG	120/1	20A/1P	30A	-	1	(2) #12 AWG, (1) #12 GND	3/4"	-
KEH-1	BREAKROOM 120	120/1	15A/1P	-	-	-	(2) #12 AWG, (1) #12 GND	3/4"	(2)
KEF-1	ROOF	120/1	15A/1P	30A	-	1	(2) #12 AWG, (1) #12 GND	3/4"	(2)
CF-1	SALLY PORT	208/3	20A/3P	30A	-	1	(3) #12 AWG, (1) #12 GND	3/4"	-
CF-2	SALLY PORT	208/3	20A/3P	30A	-	1	(3) #12 AWG, (1) #12 GND	3/4"	-
CF-3	GYM	208/3	20A/3P	30A	-	1	(3) #12 AWG, (1) #12 GND	3/4"	-
CF-4	GMY	208/3	20A/3P	30A	-	1	(3) #12 AWG, (1) #12 GND	3/4"	-
CF-5	GYM	208/3	20A/3P	30A	-	1	(3) #12 AWG, (1) #12 GND	3/4"	-
CF-6	GYM	208/3	20A/3P	30A	-	1	(3) #12 AWG, (1) #12 GND	3/4"	-
CF-7	GYM	208/3	20A/3P	30A	-	1	(3) #12 AWG, (1) #12 GND	3/4"	-
CF-8	GYM	208/3	20A/3P	30A	-	1	(3) #12 AWG, (1) #12 GND	3/4"	-

NOTES: 1. INDOOR UNIT POWERED VIA OUTDOOR UNIT. PROVIDED STRANDED WIRING TO INDOOR UNIT PER MANUFACTURER'S RECOMMENDATIONS.
2. COORDINATE FINAL POWER CONNECTION WITH KITCHEN HOOD/EXHAUST FAN MANUFACTURER PRIOR TO ROUGH-IN.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

EQUIPMENT NAME	LOCATION	VOLTAGE/ PHASE	BRANCH O.C.P.	DISCONNECT SWITCH			CONDUCTORS	RACEWAY	NOTES
				SIZE	FUSE	ENCL.			
VAV-1-1	LOCKER ROOM 131	277/1	15A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-1-2	CAPTAIN 118B	277/1	15A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-1-3	MEETING 118E	277/1	15A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-1-4	PATROL 118	277/1	20A/3P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-1-5	TRAFFIC STORAGE 100M	277/1	25A/1P	30A	-	-	(2) #10 AWG, (1) #10 GND	3/4"	-
VAV-1-6	CAPTAIN 118C	277/1	15A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-1-7	COPY WORK 115C	277/1	25A/1P	30A	-	-	(2) #10 AWG, (1) #10 GND	3/4"	-
VAV-1-8	EVIDENCE STORAGE 114	277/1	15A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-1-9	EVIDENCE STORAGE 114	277/1	40A/1P	60A	-	-	(2) #8 AWG, (1) #10 GND	1"	-
VAV-1-10	CRIME LAB 112B	277/1	25A/1P	30A	-	-	(2) #10 AWG, (1) #10 GND	3/4"	-
VAV-1-11	HOLDING 107N	277/1	20A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-1-12	HOLDING 107E	277/1	20A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-1-13	CRIME SCENE 112	277/1	20A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-1-14	MECHANICAL RM 109	277/1	15A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-1-15	FLEX SPACE 108	277/1	15A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-1-16	QUIET ROOM 106	277/1	15A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-1-17	QUARTERMASTER 105	277/1	20A/1P	60A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-1-18	CODE ENFORCEMENT 103	277/1	25A/1P	30A	-	-	(2) #10 AWG, (1) #10 GND	3/4"	-
VAV-1-19	SUPERVISOR 102C	277/1	15A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-1-20	VICTIM ADVOCATE 102	277/1	25A/1P	30A	-	-	(2) #10 AWG, (1) #10 GND	3/4"	-
VAV-1-21	CONFERENCE 113	277/1	15A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-1-22	RECORDS 101	277/1	25A/1P	30A	-	-	(2) #10 AWG, (1) #10 GND	3/4"	-
VAV-1-23	FINGER PRINT 101B	277/1	25A/1P	30A	-	-	(2) #10 AWG, (1) #10 GND	3/4"	-
VAV-1-24	FAMILY INTERVIEW 124	277/1	15A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-1-25	BRIEFING 120	277/1	20A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-1-26	TRAINING 121	277/1	30A/1P	30A	-	-	(2) #10 AWG, (1) #10 GND	3/4"	-
VAV-1-27	TRAINING 121	277/1	15A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-1-28A	BRIEFING 120	277/1	40A/1P	60A	-	-	(2) #8 AWG, (1) #10 GND	1"	-
VAV-1-28B	CORRIDOR 100H	277/1	40A/1P	60A	-	-	(2) #8 AWG, (1) #10 GND	1"	-
VAV-1-29	BREAKROOM 129	277/1	25A/1P	30A	-	-	(2) #10 AWG, (1) #10 GND	3/4"	-
VAV-2-1	CORRIDOR 200	24	-	-	-	-	-	-	(1)
VAV-2-2	CORRIDOR 200	277/1	15A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-2-3	DIGITAL FORENSICS 219	277/1	15A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-2-4	ACCREDITATION 220	277/1	15A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-2-5	SKIFF 218B	277/1	15A/1P	30A	-	-	(3) #12 AWG, (1) #12 GND	3/4"	-
VAV-2-6	CORRIDOR 200	277/1	25A/1P	30A	-	-	(2) #10 AWG, (1) #10 GND	3/4"	-
VAV-2-7	CORRIDOR 200	277/1	20A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-2-8	SGT 214A	277/1	25A/1P	30A	-	-	(2) #10 AWG, (1) #10 GND	3/4"	-
VAV-2-9	COMMUNICATIONS 213	480/3	20A/3P	30A	-	-	(3) #12 AWG, (1) #12 GND	3/4"	-
VAV-2-10	TECH WORK ROOM 210	277/1	15A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-2-11A	DETECTIVE BUREAU 207	277/1	30A/1P	30A	-	-	(2) #10 AWG, (1) #10 GND	3/4"	-
VAV-2-11B	DETECTIVE BUREAU 207	277/1	25A/1P	30A	-	-	(2) #10 AWG, (1) #10 GND	3/4"	-
VAV-2-12	DETECTIVE BUREAU 207	277/1	15A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-2-13	DETECTIVE BUREAU 207	277/1	20A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-2-14	CORRIDOR 200	277/1	15A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-2-15	IA FILES 204E	277/1	15A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-2-16	MECHANICAL RM 206	277/1	15A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-2-17	TECH SPECIALIST 205	277/1	15A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-2-18	INTERNAL AFFAIRS 204	277/1	15A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-2-19	INTERNAL AFFAIRS 204	277/1	15A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-2-20	INTERNAL AFFAIRS 204	277/1	15A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-2-21	CORRIDOR 203	277/1	15A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-2-22	ASSISTANT CHIEF 203B	277/1	15A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-2-23	I.T. DATA ROOM 212	277/1	15A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-2-24	COMMUNICATIONS 213	277/1	40A/1P	30A	-	-	(2) #8 AWG, (1) #10 GND	1"	-
VAV-2-25	ADMIN 201	480/3	15A/3P	30A	-	-	(3) #12 AWG, (1) #12 GND	3/4"	-
VAV-2-26	DEPUTY CHIEF 202B	277/1	15A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-2-27	CHIEF ADMIN 202	277/1	15A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-
VAV-2-28	RTC 218	480/3	15A/3P	30A	-	-	(3) #12 AWG, (1) #12 GND	3/4"	-
VAV-2-29	CHIEFS CONFERENCE 202C	277/1	20A/1P	30A	-	-	(2) #12 AWG, (1) #12 GND	3/4"	-

NOTES: 1. COOLING ONLY VAV. VAV IS CONTROLLED VIA DDC CONTROL PANEL AND BAS. REFER TO DETAIL #4 ON SHEET M7.01 FOR ADDITIONAL INFORMATION.

FILE NAME: Autodesk Docs// 1007657.00 - CORE - City of Riviera Beach D/RBPD_MEPF_R24.rvt
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REGISTRATION

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DRAWING HISTORY

No	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

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PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

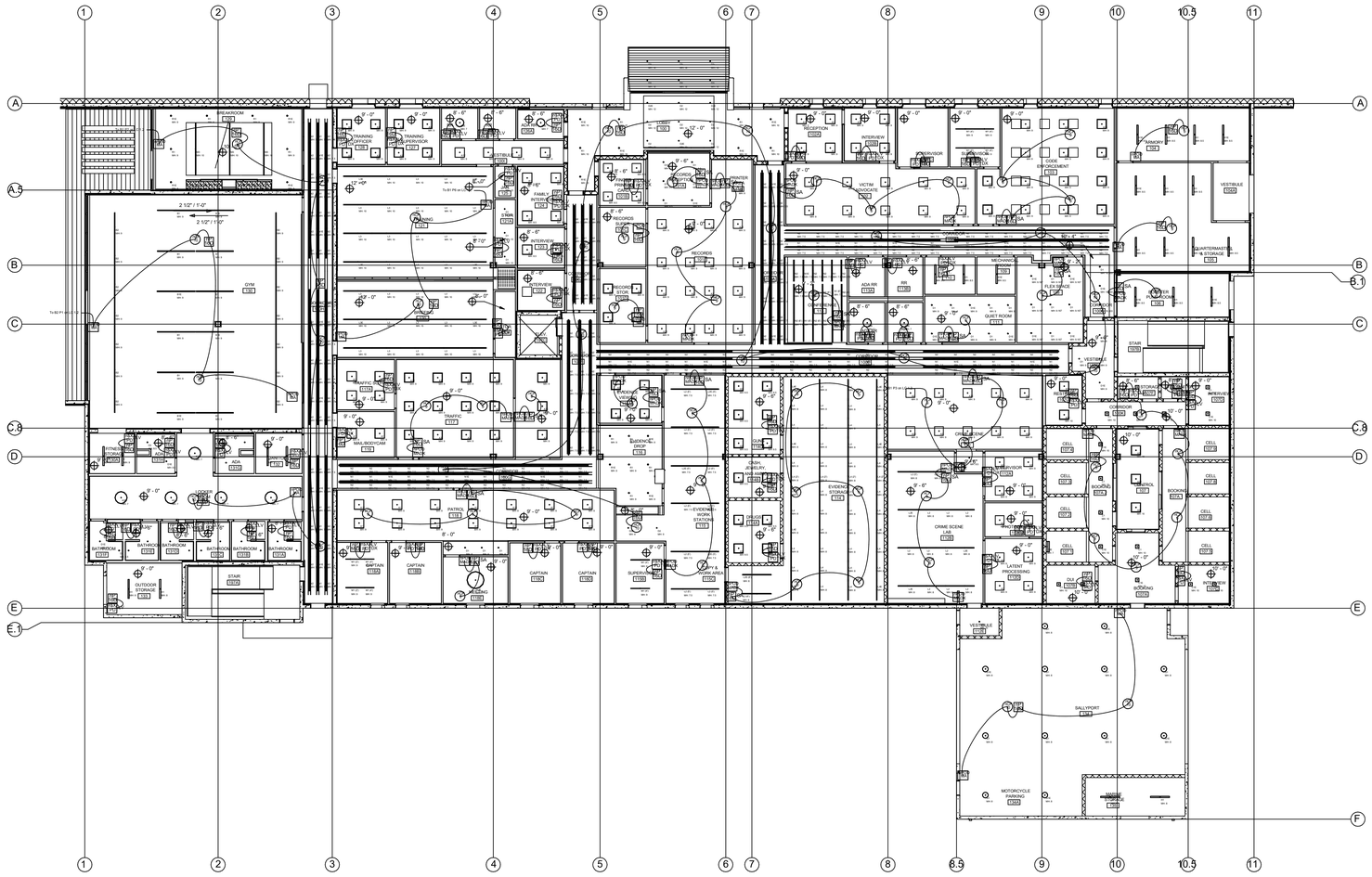
PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
SCHEDULES - ELECTRICAL

SHEET NUMBER
E7.05



PRODUCT LEGEND LC 1.1		
17	VIF 16DP SA	Power Pack DP1 NPP16 D EFP SA Power/Relay Pack, Dimming, External Fault Protection, Vacancy (default) or Auto-On
64	VIF 16DP	Power Pack DP2 NPP16 D EFP Power/Relay Pack, Dimming, External Fault Protection
46	VIF OS	Sensor OS1 NCM PDT 9 RJB Low Voltage Ceiling Mount Sensor, Passive Dual Technology, Small Motion / Standard Range 360° Lens, Rear RJ-45 Ports
24	VIF OS	Sensor OS2 NCM PDT 10 RJB Low Voltage Ceiling Mount Sensor, Passive Dual Technology, Large Motion / Extended Range 360° Lens, Rear RJ-45 Ports
27	VIF NWSXA PDT LV	Switch SO3 NWSXA PDT LV XX Aesthetic Wall Switch Occupancy Sensor, Passive Dual Technology, Low Voltage
24	VIF NWSXA LV PDT DX	Switch SO4 NWSXA PDT LV DX XX Aesthetic Wall Switch Occupancy Sensor, Passive Dual Technology, Low Voltage, Raise/Lower Dimming
12	VIF NPDM SA	Switch SW1 NPODMA XX nLight Wired Aesthetic Wallpod
26	VIF NPDM MADX	Switch SW2 NPODMA DX XX nLight Wired Aesthetic Wallpod, Raise/Lower Dimming

Disclaimer
ALL POWER PACKS / RELAY DEVICES (IF SHOWN) ARE TO BE INSTALLED IN ACCESSIBLE LOCATIONS. THIS P-LS CONTROLS LAYOUT IS FOR DIAGRAMMATICAL PURPOSES AND REFERENCE OF PRODUCT LOCATIONS ONLY.

WIRE LEGEND LC 1.1	
———	CAT5e nLight Pre-terminated CAT5e cable for nLight communication network

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DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

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PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

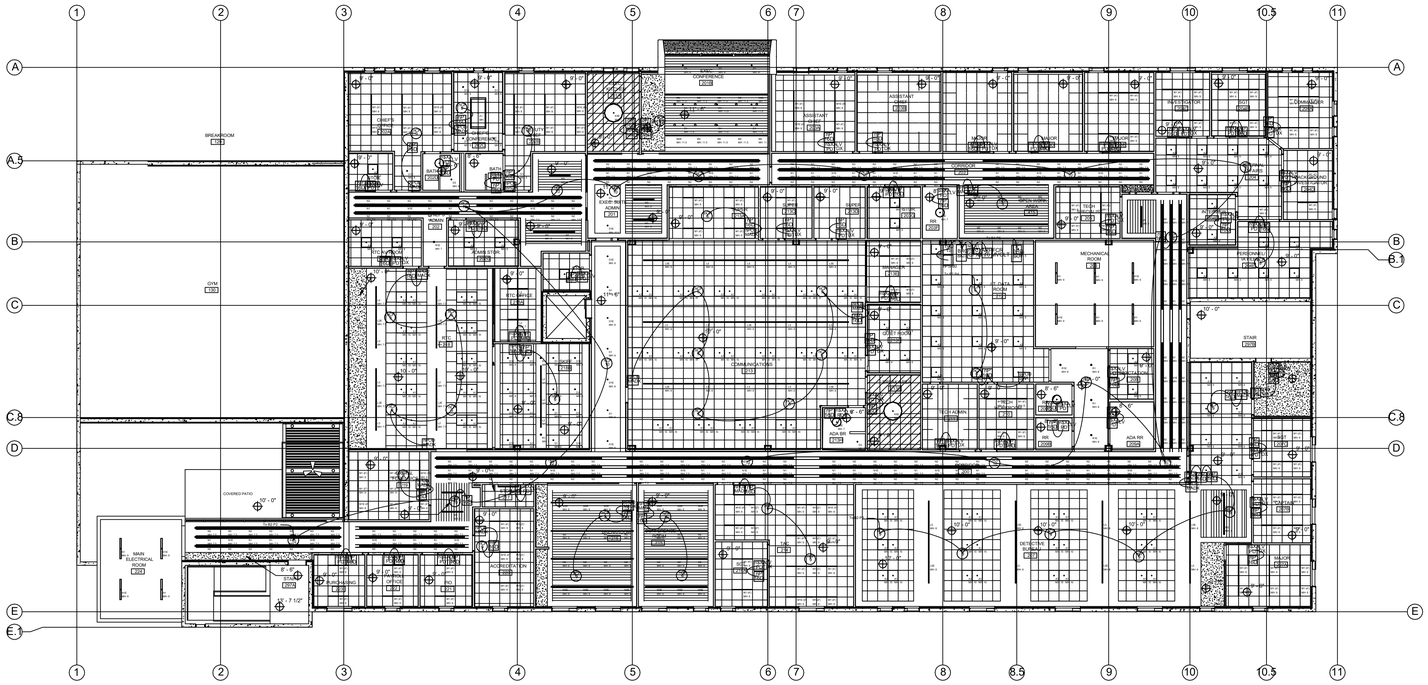
PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
CONTROLS - ELECTRICAL

SHEET NUMBER
E8.01



PRODUCT LEGEND LC 1.2			
1	ARP16CR 16 MVOLT	Panel PL1 ARP INTENC16 NLT 16FCR MVOLT SC SM Acuity Relay Panel. Include INT and ENC, 16-Size, nLight, 16-field configurable relays, 120-277V, Screw Cover, Surface Mount	
63	EFP EFP	Power Pack DP2 NPP16 D EFP Power/Relay Pack, Dimming, External Fault Protection	
1	NPS80	Power Pack NPS 1 NPS 80 Power Supply, 80 mA	
34	OS1	Sensor OS1 NCM PDT 9 RJB Low Voltage Ceiling Mount Sensor, Passive Dual Technology, Small Motion / Standard Range 360° Lens, Rear RJ-45 Ports	
16	OS2	Sensor OS2 NCM PDT 10 RJB Low Voltage Ceiling Mount Sensor, Passive Dual Technology, Large Motion / Extended Range 360° Lens, Rear RJ-45 Ports	
13	NWSXA PDT LV	Switch SO3 NWSXA PDT LV XX Aesthetic Wall Switch Occupancy Sensor, Passive Dual Technology, Low Voltage	
30	NWSXA LV PDT DX	Switch SO4 NWSXA PDT LV DX XX Aesthetic Wall Switch Occupancy Sensor, Passive Dual Technology, Low Voltage, Raise/Lower Dimming	
1	NPDMA MA	Switch SW1 NPODMA XX nLight Wired Aesthetic Wallpod	
20	NPDMA MADX	Switch SW2 NPODMA DX XX nLight Wired Aesthetic Wallpod, Raise/Lower Dimming	
2	BRG 8KIT	System Controller BG1 NBRG 8 KIT nLight Bridge, 8 ports, Kit	
1	NECY GFXK	System Controller SC1 NECY MVOLT ENC GFXK nLight Eclypse, 120-277V, Enclosure for nLight ECLYPSE, nGWY2 GFX and PS 150 Power Supply	
1	NIO 1S	System Interface NI1 NIO 1S nLight Device, Contact Closure Input	

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THIS P-LS CONTROLS LAYOUT IS FOR DIAGRAMMATICAL PURPOSES AND REFERENCE OF PRODUCT LOCATIONS ONLY.

WIRE LEGEND LC 1.2	
———	CAT5e nLight Pre-terminated CAT5e cable for nLight communication network

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DRAWING HISTORY

№	DATE	DESCRIPTION
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D	9/18/2025	90% Construction Documents
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PROJECT STATUS

90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER

1007657.00

SHEET TITLE

CONTROLS - ELECTRICAL

SHEET NUMBER

E8.02

Luminaire Schedule: RIVIERA BEACH POLICE DEPARTMENT - 1ST FLOOR_REV 3 RIVIERA BEACH, FL 10/14/2025

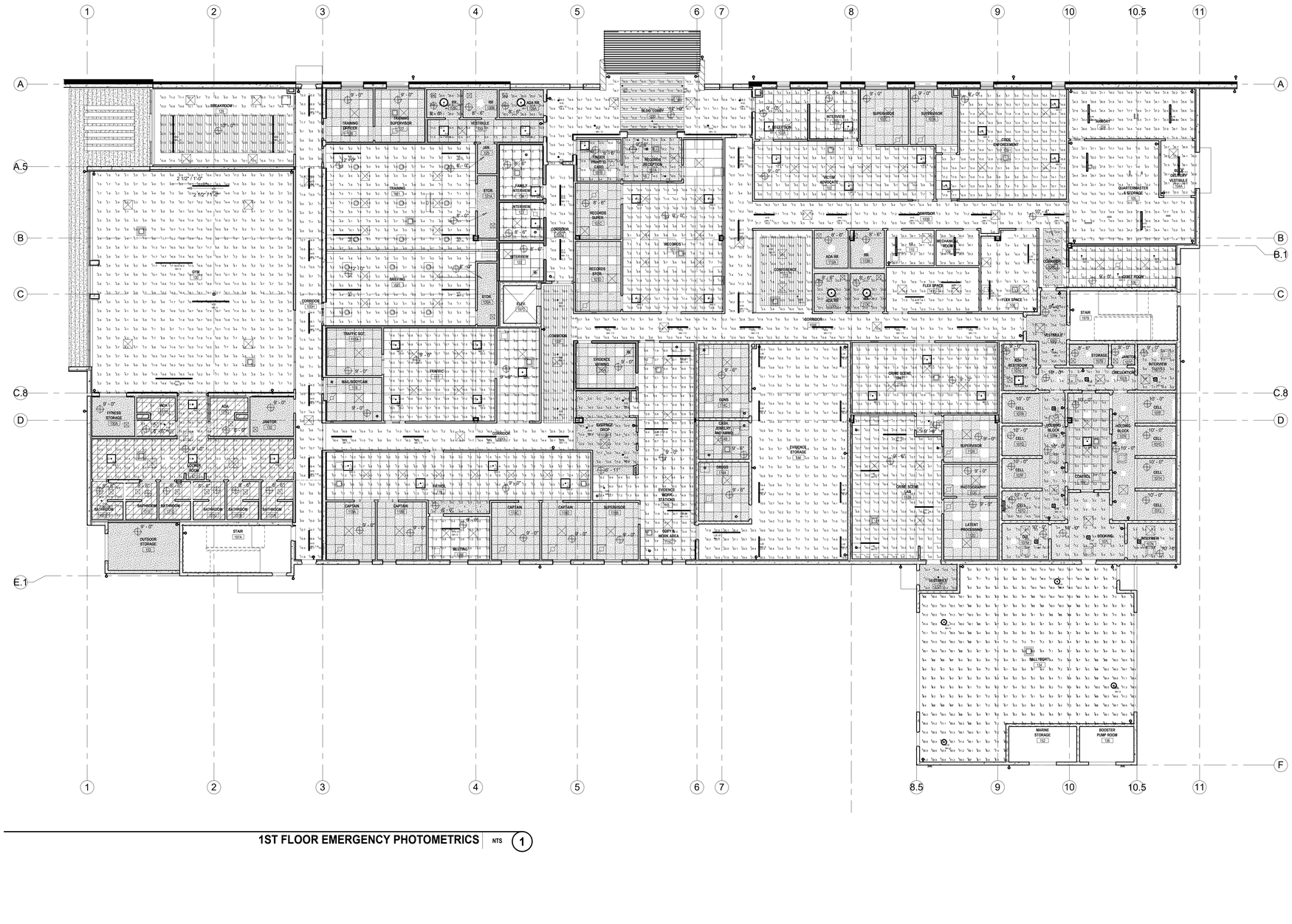
Scenario: EMERGENCY

Symbol	Qty	Label	Arrangement	Manufacturer	Catalog Number	Mounting	Emergency	LLF	Lum Lumens	Lum Watts
	10	A1E	Single	Alight Architectural Lighting	LDAN-14-LW1-40K-80-U-***-D	RECESSED MOUNT A.F.F.	GENERATOR	0.616	3408	40
	15	A2E	Single	Fluxwerx Illumination Inc	NB1-22-B-40-F2-M	RECESSED MOUNT A.F.F.	GENERATOR	0.855	5334	26.59
	11	A3E	Single	Lithonia Lighting	CPX 2X2 ALO7 (MAS SWWT (40K) SWL MVOLT	RECESSED MOUNT A.F.F.	GENERATOR	0.855	3588	25.98
	4	B1E	Single	Fluxwerx Illumination Inc	VU1-R-B-C-40-*-36-S-F2-M-BE	PENDANT MOUNT A.F.F. (bottom of fixture)	GENERATOR	0.855	9890	57.38
S	7	C1E	Single	Luminaire LED	SMQ-Q11-H12ORSP-MNY2-35W-40K-MVOLT-ALS-1E3-***	SURFACE MOUNT A.F.F.	GENERATOR	0.855	3143	28.8
	1	C2E	Single	Luminaire LED	WMP-W12-H12ORSP-MNY2-50W 40K MVOLT ALS 1E3 ***	WALL MOUNT A.F.F.	GENERATOR	0.855	3603	54.1
	13	D1E	Single	Alphabet	NLD-RD-SW-10LM-40K-80-SDC-DL-WH-WH	RECESSED MOUNT A.F.F.	GENERATOR	0.906	1499	14.4
	9	D2E	Single	Alphabet	NLD-RD-SW-20LM-40K-80-SDC-DL-WH-WH	RECESSED MOUNT A.F.F.	GENERATOR	0.906	2001	19.6
	4	G1E	Single	Lithonia Lighting	VCPG LED P3 40K TSW MVOLT	PENDANT MOUNT A.F.F. (bottom of fixture)	GENERATOR	0.855	6255	43.37
	7	H1E	Single	Lithonia Lighting	CLX L48 7000LM SEF RDL MVOLT 40K 80CRI	SURFACE MOUNT A.F.F.	GENERATOR	0.855	7273	46.6111
	4	K4E	Single	Brownlee Lighting Inc	2680-25-**-Rib-**-40K	PENDANT MOUNT A.F.F. (bottom of fixture)	GENERATOR	0.855	3797	41.0809
	7	L2E	Single	Lumenfilters	V1A1 SP-DI-HLO-FH-WCQ-SW-80CRI-500LMF-350LMF-40K-*FT*IN-UNV-D1-1C-NA-ACS-*	PENDANT MOUNT A.F.F. (bottom of fixture)	GENERATOR	0.855	3402	35.45
	4	L2E (E)	Single	Lumenfilters	V1A1 SP-DI-HLO-FH-WCQ-SW-80CRI-500LMF-350LMF-40K-*FT*IN-UNV-D1-1C-NA-ACS-*	PENDANT MOUNT A.F.F. (bottom of fixture)	GENERATOR	0.855	4252	44.3125
	1	L2E (F)	Single	Lumenfilters	V1A1 SP-DI-HLO-FH-WCQ-SW-80CRI-500LMF-350LMF-40K-*FT*IN-UNV-D1-1C-NA-ACS-*	PENDANT MOUNT A.F.F. (bottom of fixture)	GENERATOR	0.855	3153	33.175
	9	L3E	Single	Lumenfilters	V1A1 SP-DI-HLO-FH-WCQ-SW-80CRI-350LMF-350LMF-40K-*FT*IN-UNV-D1-1C-NA-ACS-*	PENDANT MOUNT A.F.F. (bottom of fixture)	GENERATOR	0.855	3301	28.62
	9	L4E	Single	Lumenfilters	V1A1 SP-DI-HLO-FH-NA-SW-80CRI-500LMF-NA-40K-*FT*IN-UNV-D1-1C-NA-ACS-*	PENDANT MOUNT A.F.F. (bottom of fixture)	GENERATOR	0.855	2003	25.85
	1	M1E (4')	Single	JLC Tech	TBLX-MW-MD-4-24-3-*-*-UNV	GRID MOUNT A.F.F.	GENERATOR	0.855	2380	20.3
	2	M3E	Single	Lumenwerx	SHLX1-SS-D-SLD-SW-80CRI-750LMF-40K-BFTSW-UNV-RD1-1C-*-*-YFT-NA	SURFACE MOUNT A.F.F.	GENERATOR	0.855	6602	57.792
	37	N1E	Single	Lumenfilters	SQUICOP-D-12IN-HLO-NA-NW-SW-80CRI-500LMF-NA-40K-*FT*IN-UNV-D1-1C-NA-ACS-*	PENDANT MOUNT A.F.F. (bottom of fixture)	GENERATOR	0.855	2000	16.5
	8	R1E	Single	Alphabet	BETA-3R-SW-20LM-30K-80-SDD-WH-WH	PENDANT MOUNT A.F.F. (bottom of fixture)	GENERATOR	0.855	1717	16.5

Calculation Summary: RIVIERA BEACH POLICE DEPARTMENT - 1ST FLOOR_REV 3 RIVIERA BEACH, FL 10/14/2025

Scenario: EMERGENCY

Label	Calc Type	Units	Avg	Max	Min	Avg/Min	Max/Min
100 LOBBY_Floor_1	Illuminance	Fc	10.88	20.0	5.5	2.89	3.64
100A CORRIDOR_Floor_1	Illuminance	Fc	13.96	23.2	6.6	2.10	3.52
100B & 100C CORRIDOR_Floor_1	Illuminance	Fc	11.38	21.7	4.8	2.37	4.52
100D VESTIBULE_Floor_1	Illuminance	Fc	14.82	19.7	7.3	2.03	2.70
100E CORRIDOR_Floor_1	Illuminance	Fc	11.15	23.0	1.6	6.97	14.38
100F CORRIDOR_Floor_1	Illuminance	Fc	17.43	27.1	10.5	1.66	2.58
100G CORRIDOR_Floor_1	Illuminance	Fc	11.30	25.2	4.0	2.83	6.30
100H CORRIDOR_Floor_1	Illuminance	Fc	11.89	19.4	6.2	1.89	3.13
100I VESTIBULE_Floor_1	Illuminance	Fc	11.41	15.2	6.9	1.65	2.20
100J CORRIDOR_Floor_1	Illuminance	Fc	12.98	18.9	6.5	2.00	2.91
100K CORRIDOR_Floor_1	Illuminance	Fc	8.23	11.5	2.7	2.31	4.26
101 RECORDS_Floor	Illuminance	Fc	10.54	13.5	6.8	1.60	2.05
101A RECORDS RECEPTION_Floor	Illuminance	Fc	11.47	17.3	3.9	2.94	4.44
101B FINGER PRINT-ID CARD_Floor	Illuminance	Fc	10.42	13.5	6.2	1.68	2.18
102 VICTIM ADVOCATE_Floor	Illuminance	Fc	10.34	13.2	6.6	1.57	2.00
103 CODE ENFORCEMENT_Floor	Illuminance	Fc	13.05	20.3	5.8	2.25	3.50
104 ARMORY_Floor	Illuminance	Fc	22.97	34.5	14.1	1.63	2.45
104A VESTIBULE_Floor_1	Illuminance	Fc	26.72	36.1	19.0	1.41	2.01
105 QUARTERMASTER & STORAGE_Floor	Illuminance	Fc	16.27	33.5	5.1	3.19	6.47
106 BUSTER PUMP ROOM_Floor_1	Illuminance	Fc	13.13	19.9	3.8	3.46	5.24
107 CONTROL_Floor	Illuminance	Fc	8.76	13.2	4.8	1.83	2.75
107-1 CELL_Floor_1	Illuminance	Fc	10.93	20.5	10.8	1.48	1.90
107A BOOKING_Floor	Illuminance	Fc	5.71	9.4	2.9	1.97	3.24
107A-2 BOOKING_Floor_1	Illuminance	Fc	8.32	12.9	4.4	1.89	2.93
107B DUI_Floor	Illuminance	Fc	8.55	11.5	5.4	1.58	2.13
107C INTERVIEW_Floor	Illuminance	Fc	8.42	11.4	5.2	1.62	2.19
107D INTERVIEW_Floor	Illuminance	Fc	8.56	11.7	5.2	1.65	2.25
107G RESTROOM_Floor_1	Illuminance	Fc	12.32	15.7	8.0	1.54	1.96
108FLEX SPACE_Floor	Illuminance	Fc	8.52	12.0	1.7	4.99	7.06
109 MECHANICAL ROOM_Floor_1	Illuminance	Fc	33.86	40.0	27.8	1.22	1.44
110 IT_Floor_1	Illuminance	Fc	27.70	38.2	10.6	1.78	2.45
111 QUIET ROOM_Floor	Illuminance	Fc	10.91	14.2	5.7	1.91	2.49
112 CRIME SCENE UNIT_Floor	Illuminance	Fc	11.99	19.3	5.2	2.29	3.71
112B CRIME SCENE LAB_Floor	Illuminance	Fc	13.63	23.3	2.1	6.49	11.10
112E VESTIBULE_Floor_1	Illuminance	Fc	12.38	15.3	10.5	1.20	1.46
113 CONFERENCE_Floor	Illuminance	Fc	12.13	23.7	2.9	4.18	8.17
113C RR_Floor_1	Illuminance	Fc	23.75	29.2	18.7	1.27	1.56
113D ADA RR_Floor_1	Illuminance	Fc	23.77	29.2	18.9	1.26	1.54
114 EVIDENCE STORAGE_Floor	Illuminance	Fc	10.92	27.1	4.9	2.23	5.53
115 EVIDENCE WORK STATIONS_Floor	Illuminance	Fc	12.78	24.0	6.5	1.97	3.69
116C COPY & WORK AREA_Floor	Illuminance	Fc	10.15	21.9	3.0	3.38	7.30
116 EVIDENCE DROP_Floor	Illuminance	Fc	14.97	21.1	2.5	5.99	8.44
117 TRAFFIC_Floor	Illuminance	Fc	15.98	20.6	10.4	1.54	1.98
118 PATROL_Floor	Illuminance	Fc	8.68	13.7	3.8	2.26	3.61
119E MEETING_Floor	Illuminance	Fc	9.70	16.7	2.7	3.59	6.19
120A RECEPTION_Floor	Illuminance	Fc	7.87	13.3	3.3	2.38	4.03
120B INTERVIEW_Floor	Illuminance	Fc	7.93	13.4	3.0	2.55	4.47
121 TRAINING_Floor	Illuminance	Fc	7.26	10.1	4.9	1.48	2.06
123 INTERVIEW_Floor	Illuminance	Fc	10.18	15.0	5.0	2.03	3.00
124 FAMILY INTERVIEW_Floor	Illuminance	Fc	7.32	14.3	2.5	2.93	5.72
126A ADA RR_Floor_1	Illuminance	Fc	23.78	30.9	18.0	1.32	1.72
126C RR_Floor_1	Illuminance	Fc	26.66	31.6	22.5	1.18	1.40
129 BREAKROOM_Floor	Illuminance	Fc	14.53	24.3	6.0	2.42	4.05
130 BRIEFING_Floor	Illuminance	Fc	5.50	8.7	3.3	1.67	2.64
130 CPM_Floor_1	Illuminance	Fc	7.63	19.8	1.4	5.45	14.14
131 LOCKER ROOM_Floor	Illuminance	Fc	11.75	16.5	6.9	1.70	2.39
131F BATHROOM_Floor_1	Illuminance	Fc	13.95	19.5	8.6	1.62	2.27
131H ADA_Floor_1	Illuminance	Fc	12.42	19.8	4.0	2.07	3.30
134 SALLYPORT_Floor	Illuminance	Fc	9.64	12.6	3.0	3.06	4.20
134 SALLYPORT_Floor_1	Illuminance	Fc	9.64	13	3	2.86	4.33



1ST FLOOR EMERGENCY PHOTOMETRICS NTS (1)

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/RBPD_MEPF_R24.rvt
DATE STAMP: 10/23/2025 11:53:56 AM

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REGISTRATION

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DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

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PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
1ST FLOOR EMERGENCY PHOTOMETRICS - ELECTRICAL

SHEET NUMBER
E8.03

Luminaire Schedule: RIVIERA BEACH POLICE DEPARTMENT - 2ND FLOOR_REV 3 RIVIERA BEACH, FL 10/14/2025

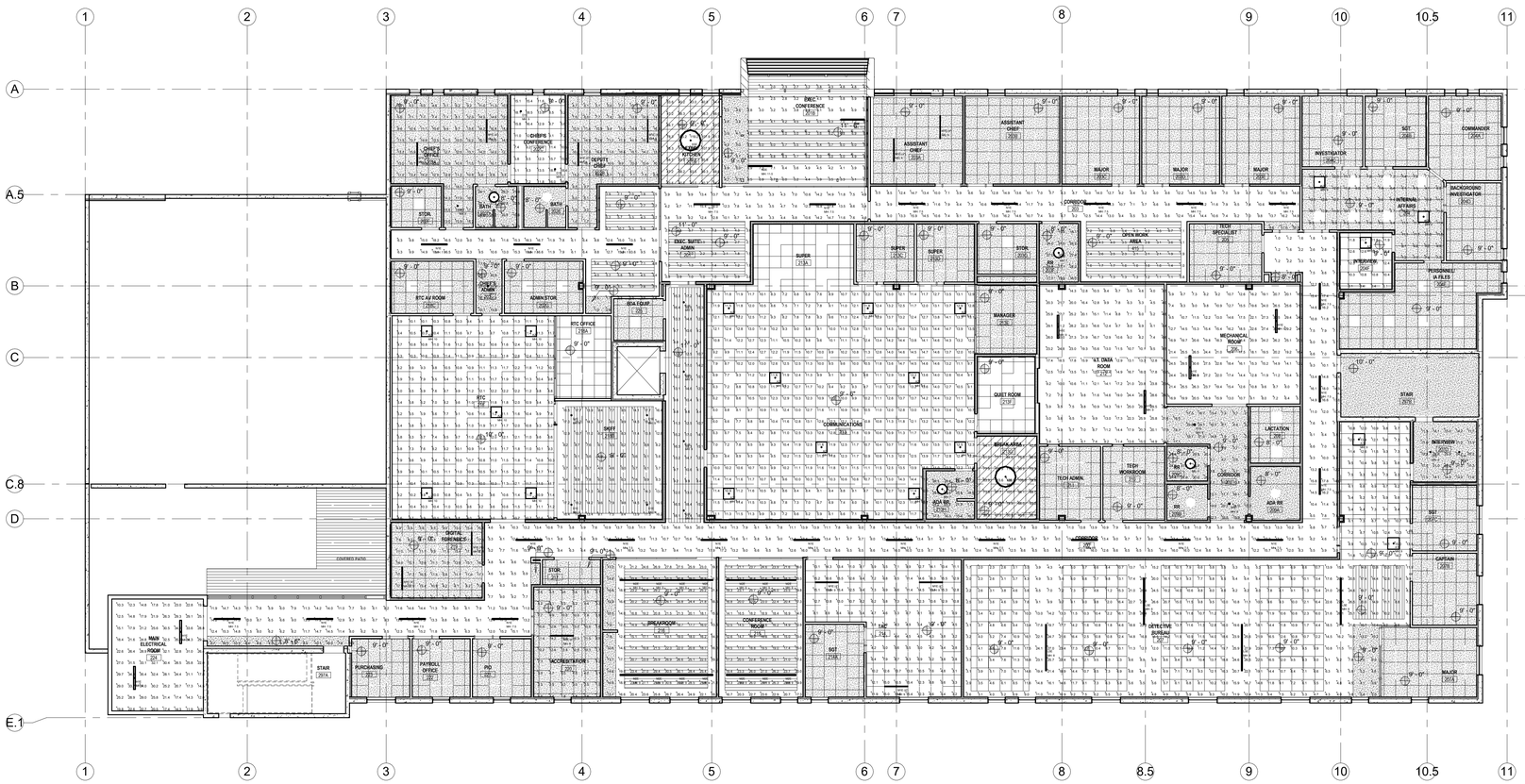
Scenario: EMERGENCY

Symbol	Qty	Label	Arrangement	Manufacturer	Catalog Number	Mounting	Emergency	LLF	Lum Lumens	Lum Watts
-	2	AYE	Single	Alight Architectural Lighting	LEAN-1-LH1-40K-80-U-***-Q	RECESSED MOUNT A.F.F.	GENERATOR	0.616	3408	40
-	17	AZE	Single	Flowers Illumination Inc	NR1-22-B-4ILF3-M	RECESSED MOUNT A.F.F.	GENERATOR	0.900	3334	28.39
	15	DYE	Single	Alphabet	NLD-RD-SW-15LM-40K-80-SSD-DL-WH-WH	RECESSED MOUNT A.F.F.	GENERATOR	0.908	1499	14.4
	6	HYE	Single	Lithonia Lighting	CLX L48 7000LM SBT RDL MVOLT 40K 80CRI	SURFACE MOUNT A.F.F.	GENERATOR	0.855	7273	46.6111
	4	KAE	Single	Brownlee Lighting Inc	2680-20-**-RAN-**-40K	PENDANT MOUNT A.F.F. (bottom of fixture)	GENERATOR	0.855	3797	45.0809
	2	KDE	Single	Brownlee Lighting Inc	2680-40-**-5183-**-40K	PENDANT MOUNT A.F.F. (bottom of fixture)	GENERATOR	0.855	19850	183
	4	LSE	Single	Lumenfilters	V-X-1, SP-D-(14,D,Fr1-WCC)-SW-80CRI-5500LMF-350LMF-40K-BFTSBK-UNV-D1-1C-NA-ACS-*	PENDANT MOUNT A.F.F. (bottom of fixture)	GENERATOR	0.855	6804	70.9
	12	MYE (4')	Single	A.C.Tech	TBLX-MN-MO-4-24-D-**-UNV	GRID MOUNT A.F.F.	GENERATOR	0.855	2380	20.5
	16	MZE	Single	Lumenfilters	SHL-L1, SS-D-SLD-SW-80CRI-5553LMF-40K-TFTW-UNV-RD1-1C-**-**-FT-NA	SURFACE MOUNT A.F.F.	GENERATOR	0.855	2001	18.816
	26	NYE	Single	Lumenfilters	SQLA/COP-D-12IN-HL/2-NA-NA-SW-80CRI-5553LMF-NA-40K-TFTW-UNV-D1-1C-NA-ACS-*	PENDANT MOUNT A.F.F. (bottom of fixture)	GENERATOR	0.855	2650	18.5
	3	RYE	Single	Alphabet	BETA-3R-SW-20LM-30K-80-SSD-WH-WH	PENDANT MOUNT A.F.F. (bottom of fixture)	GENERATOR	0.900	1717	16.5

Calculation Summary: RIVIERA BEACH POLICE DEPARTMENT - 2ND FLOOR_REV 3 RIVIERA BEACH, FL 10/14/2025

Scenario: EMERGENCY

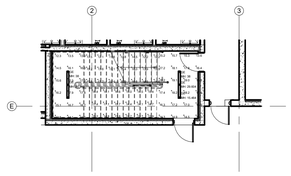
Label	Calc Type	Units	Avg	Max	Min	Avg/Min	Max/Min
201 EXEC SUITE ADMIN CORRIDOR_Floor_1	Illuminance	Fc	8.69	17.4	3.3	2.63	5.27
201 EXEC SUITE ADMIN_Floor	Illuminance	Fc	2.42	7.3	0.8	3.03	9.13
201A EXEC KITCHEN_Floor	Illuminance	Fc	67.84	119.2	33.8	2.02	3.55
201B EXEC CONFERENCE_Floor	Illuminance	Fc	4.87	7.3	1.8	2.71	4.06
202 CHIEF'S ADMIN_Floor	Illuminance	Fc	9.07	51.6	0.9	11.34	39.75
202A CHIEF'S OFFICE_Floor	Illuminance	Fc	11.94	19.4	3.5	3.41	5.54
202B BATH_Floor_1	Illuminance	Fc	22.44	31.0	10.9	2.06	2.84
202B DEPUTY CHIEF_Floor	Illuminance	Fc	16.33	17.1	1.5	8.89	11.40
202C CHIEF'S CONFERENCE_Floor	Illuminance	Fc	11.33	18.5	4.2	2.70	4.40
203 CORRIDOR_Floor_1	Illuminance	Fc	10.89	16.8	5.2	2.06	3.58
205F RR_Floor_1	Illuminance	Fc	25.16	30.2	17.7	1.31	1.71
204 INTERNAL AFFAIRS_Floor	Illuminance	Fc	9.86	12.7	7.1	1.39	1.79
204F INTERVIEW_Floor	Illuminance	Fc	11.16	12.7	8.1	1.38	1.57
206 MECHANICAL ROOM_Floor_1	Illuminance	Fc	17.56	30.6	5.7	3.06	5.37
207 DETECTIVE BUREAU_Floor	Illuminance	Fc	10.93	27.9	1.7	6.43	16.41
207D INTERVIEW_Floor	Illuminance	Fc	17.82	25.9	11.5	1.55	2.25
208C RR_Floor_1	Illuminance	Fc	27.21	33.4	21.4	1.27	1.56
212 IT DATA ROOM_Floor_1	Illuminance	Fc	14.07	31.2	3.5	4.02	8.91
213 COMMUNICATIONS_Floor	Illuminance	Fc	11.14	15.0	5.9	1.89	2.54
213G BREAK AREA_Floor	Illuminance	Fc	70.63	125.9	38.4	1.92	3.28
213H ADA RR_Floor_1	Illuminance	Fc	20.91	30.4	1.7	12.30	17.88
214 TAC_Floor	Illuminance	Fc	9.09	16.6	2.9	3.23	5.93
215 CONFERENCE ROOM_Floor	Illuminance	Fc	20.17	27.6	12.5	1.61	2.21
216 BREAKROOM_Floor	Illuminance	Fc	21.28	31.2	7.5	2.80	4.11
218 RTC_Floor	Illuminance	Fc	10.14	12.6	5.2	1.95	2.42
218B SKIFF_Floor	Illuminance	Fc	10.34	18.3	4.6	2.25	3.98
219 DIGITAL FORENSICS_Floor	Illuminance	Fc	11.76	17.9	4.9	2.40	3.65
220 ACCREDITATION_Floor	Illuminance	Fc	6.82	15.5	1.3	5.25	11.92
224 MAIN ELECTRICAL ROOM_Floor_1	Illuminance	Fc	26.41	30.4	9.9	2.47	3.58
2xx CORRIDOR (bottom, left & right)_Floor_1	Illuminance	Fc	10.60	21.4	1.3	10.65	21.40
2xx CORRIDOR TO MECHANICAL ROOM_Floor_1	Illuminance	Fc	10.90	34.1	1.4	7.71	17.21
410 OPEN AREA_Floor	Illuminance	Fc	2.86	7.6	0.8	3.58	9.50



2ND FLOOR EMERGENCY PHOTOMETRICS

NTS

1



Luminaire Schedule: RIVIERA BEACH POLICE DEPARTMENT - STAIRS TYP RIVIERA BEACH, FL 04/29/2025

Scenario: EMERGENCY

Symbol	Qty	Label	Arrangement	Manufacturer	Catalog Number	Mounting	Emergency	Lum Lumens	Lum Watts	LLF
	5	GE	Single	Kenall Manufacturing	WL140-80-P-MW-PP1-I-ATL40K-DCC-DV	SURFACE MOUNT A.F.F.	GENERATOR	7575	76.302	0.900

Calculation Summary: RIVIERA BEACH POLICE DEPARTMENT - STAIRS TYP RIVIERA BEACH, FL 04/29/2025

Scenario: EMERGENCY

Label	Calc Type	Units	Spacing L-R (FT)	Spacing T-B (FT)	Height (FT)	Avg	Max	Min	Avg/Min	Max/Min
STAIRS TYP	Illuminance	Fc	2	2	0	15.38	19.1	11.8	1.30	1.62

TYPICAL EMERGENCY STAIRWELL PHOTOMETRICS

NTS

2

FILE NAME: Autodesk Docs://_1007657.00 - CORE - City of Riviera Beach D/RBPD_MEPF_R24.rvt
DATE STAMP: 10/23/2025 11:54:17 AM

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DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

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PROJECT STATUS

90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER

1007657.00

SHEET TITLE

2ND FLOOR EMERGENCY PHOTOMETRICS - ELECTRICAL

SHEET NUMBER

E8.04

TECHNOLOGY SYSTEMS SYMBOLS LEGEND

NOTE: THESE ARE STANDARD SYMBOLS AND ALL MAY NOT APPEAR ON THE PROJECT DRAWINGS. ALL DETAILS FOR EACH SYMBOL ARE INDICATED BELOW UNLESS OTHERWISE NOTED ELSEWHERE ON THE DRAWINGS. SEE ABBREVIATIONS FOR ADDITIONAL LABELS THAT MAY BE USED.

DATA DISTRIBUTION

- DATA OUTLET, FLUSH MOUNTED IN WALL AT 18" OC AFF, FLUSH MOUNTED. U/UTP
- DATA OUTLET, FLUSH MOUNTED IN CEILING.
- TELEPHONE OUTLET, FLUSH MOUNTED IN WALL AT 46" OC AFF.
- TELEPHONE OUTLET, FLUSH MOUNTED IN CEILING.
- DATA OUTLET, FLUSH MOUNTED IN WALL AT 18" OC AFF, FLUSH MOUNTED. F/UTP
- DATA/TELEPHONE OUTLET, FLUSH MOUNTED IN CEILING.
- WAP — WIRELESS ACCESS POINT, FLUSH MOUNTED IN CEILING, TERMINATION ABOVE CEILING.
- WAP — WIRELESS ACCESS POINT, SURFACE MOUNTED TO POLE AT 96" OC AFF.
- WAP — WIRELESS ACCESS POINT, SURFACE MOUNTED TO WALL AT 96" OC AFF.
- DAS — DISTRIBUTED ANTENNA SYSTEM ANTENNA, FLUSH MOUNTED IN CEILING.

THE FOLLOWING ARE APPLICABLE TO THE ABOVE DATA/TELEPHONE DISTRIBUTION SECTION AS NOTED IN THE DESIGN:

* (D#)	PROVIDE FACEPLATE WITH NUMBER OF DATA PORTS AS SHOWN. ALL FACEPLATES SHALL HAVE 6 SPACES FOR TERMINATION MODULES
(W)	TELEPHONE WALL MOUNT PLATE WITH LUGS FOR MOUNTING PHONE TO WALL.
(C)	MOUNTED WHERE BOTTOM IS AT 4" ABOVE COUNTER OR BACKSPLASH. MAXIMUM 46" OC AFF.
(TV)	MOUNTED 66" OC AFF BEHIND FLAT PANEL DISPLAY.
(A)	MOUNTED ABOVE CEILING.

AUDIOVISUAL SYSTEM

- AUDIOVISUAL OUTLET, FLUSH MOUNTED IN WALL AT 18" OC AFF.
- AUDIOVISUAL OUTLET, FLUSH MOUNTED IN CEILING.
- S — SPEAKER, CEILING MOUNTED.
- S — SPEAKER, WALL MOUNTED AT 24" OC BFC.
- M — MICROPHONE, CEILING MOUNTED.
- M — MICROPHONE, WALL MOUNTED AT 24" OC BFC.
- M — MICROPHONE, SURFACE MOUNTED TO TABLETOP. SEE ARCHITECTURAL DRAWINGS FOR FURNITURE LOCATION AND MOUNTING HEIGHT.
- V — VOLUME CONTROL, SURFACE MOUNTED TO WALL AT 46" OC AFF.
- AMP — AMPLIFIER, SURFACE MOUNTED TO WALL AT 46" OC AFF OR MANUFACTURER RECOMMENDED MOUNTING HEIGHT.
- TSC — TOUCH SCREEN, SURFACE MOUNTED TO WALL AT 46" OC AFF.
- TSC — TOUCH SCREEN, SURFACE MOUNTED TO TABLETOP. SEE ARCHITECTURAL DRAWINGS FOR FURNITURE LOCATION AND MOUNTING HEIGHT.
- CP — CONTROL PANEL, SURFACE MOUNTED TO WALL AT 46" OC AFF.
- CAM — CAMERA, SURFACE MOUNTED TO CEILING.
- PROJ — PROJECTOR, SUSPENDED FROM CEILING.
- FLAT PANEL DISPLAY, SURFACE MOUNTED TO WALL AT 66" OC AFF.

THE FOLLOWING ARE APPLICABLE TO THE ABOVE AUDIOVISUAL SYSTEM SECTION AS NOTED IN THE DESIGN:

* (C)	MOUNTED WHERE BOTTOM IS AT 4" ABOVE COUNTER OR BACKSPLASH. MAXIMUM 46" OC AFF.
(TV)	MOUNTED 66" OC AFF BEHIND FLAT PANEL DISPLAY.
(A)	MOUNTED ABOVE CEILING.
(L)	LAY-IN, RECESSED MOUNTED.
(R)	ROUND, FLUSH MOUNTED.
(S)	SQUARE, FLUSH MOUNTED.

VIDEO SURVEILLANCE SYSTEM

- SURVEILLANCE CAMERA, SURFACE MOUNTED TO POLE AT 96" OC AFF.
- SURVEILLANCE CAMERA, SURFACE MOUNTED TO WALL AT 96" OC AFF.
- SURVEILLANCE CAMERA, SURFACE MOUNTED TO CEILING.
- VM — VIDEO MONITOR OUTLET, FLUSH MOUNTED BEHIND DISPLAYS FOR TIE-IN WITH CCTV CAMERAS.

THE FOLLOWING ARE APPLICABLE TO THE ABOVE VIDEO SURVEILLANCE SYSTEM SECTION AS NOTED IN THE DESIGN:

* (P)	PAN/TILT/ZOOM.
(W)	WEATHERPROOF.
(D)	DOME CAMERA.
(B)	BULLET CAMERA.
(#)	PROVIDE CAMERA WITH APPROXIMATE HORIZONTAL FIELD OF VIEW AS SHOWN ON THE FLOOR PLAN.

TELEVISION SYSTEM

- TV — TELEVISION OUTLET, ONE (1) RG-6 COAX, TV DISPLAY SHALL BE PROVIDED BY OTHERS, FLUSH MOUNTED IN WALL AT 18" OC AFF.
- TV — TELEVISION OUTLET, ONE (1) RG-6 COAX, TV DISPLAY SHALL BE PROVIDED BY OTHERS, FLUSH MOUNTED IN CEILING.

THE FOLLOWING ARE APPLICABLE TO THE ABOVE TELEVISION SYSTEM SECTION AS NOTED IN THE DESIGN:

* (C)	MOUNTED WHERE BOTTOM IS AT 4" ABOVE COUNTER OR BACKSPLASH. MAXIMUM 46" OC AFF.
(TV)	MOUNTED 66" OC AFF BEHIND FLAT PANEL DISPLAY.
(A)	MOUNTED ABOVE CEILING.

INTERCOM SYSTEM

- INTERCOM SPEAKER, CEILING MOUNTED.
- INTERCOM SPEAKER, WALL MOUNTED AT 24" OC BFC.
- INTERCOM SPEAKER, HORN, WEATHER-RESISTANT, SURFACE MOUNTED TO WALL AT 24" OC BFC.
- INTERCOM SPEAKER, FLEXHORN, VANDAL-RESISTANT, WEATHER-RESISTANT, SURFACE MOUNTED TO WALL AT 24" OC BFC.
- INTERCOM CALL SWITCH, FLUSH MOUNTED IN RACEWAY NEAR TEACHERS STATION.
- INTERCOM VOLUME CONTROL, FLUSH MOUNTED IN RACEWAY NEAR TEACHERS STATION.
- INTERCOM DOOR BELL CAMERA, SURFACE MOUNTED AT 46" OC AFF, CONNECTED TO MASTER STATION NEAR COMPUTER IN LOBBY OFFICE, UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.

THE FOLLOWING ARE APPLICABLE TO THE ABOVE INTERCOM SYSTEM SECTION AS NOTED IN THE DESIGN:

(O)	ONE-WAY DEVICE.
(T)	TALKBACK DEVICE.
(IO)	IP SOUNDPOINT, ONE-WAY DEVICE.
(IT)	IP SOUNDPOINT, TALKBACK DEVICE.
(L)	LAY-IN, RECESSED MOUNTED.
(R)	ROUND, FLUSH MOUNTED.
(S)	SQUARE, FLUSH MOUNTED.
(V)	VANDAL-RESISTANT ANGLED ENCLOSURE WITH SPEAKER, SURFACE MOUNTED.
(SD)	SMALL TEXT DISPLAY SPEAKER, SURFACE MOUNTED TO TEACHING WALL.
(LD)	LARGE TEXT DISPLAY SPEAKER, SURFACE MOUNTED TO TEACHING WALL.
(5)	5 WATT HORN.
(15)	15 WATT HORN.
(C)	COMPACT FLEXHORN WITHOUT ENCLOSURE, SURFACE MOUNTED.
(E)	EMERGENCY ONLY CALL SWITCH.
(NE)	NORMAL/EMERGENCY CALL SWITCH.
(N)	NOISE-SENSING DEVICE. SHALL BE ACCOMPANIED WITH REMOTE MICROPHONE FOR WORKING SYSTEM (EXACT LOCATIONS AND QUANTITIES TO BE CONFIRMED AND LOCATED BY PRINCIPAL AND PM).

INTRUSION DETECTION SYSTEM

- K — KEYPAD, SURFACE MOUNTED TO WALL AT 46" OC AFF.
- DC — DOOR CONTACT, CONSISTS OF COMPONENT RECESSED MOUNTED IN TOP FRAME OF DOOR AND COMPONENT RECESSED MOUNTED IN TOP OF THE DOOR. COORDINATE WITH ARCHITECTURAL DRAWINGS AND VENDORS FOR DOOR SPEC.
- WC — WINDOW CONTACT, CONSISTS OF COMPONENT RECESSED MOUNTED IN TOP OF FRAME OF DOOR AND COMPONENT RECESSED MOUNTED IN TOP OF THE DOOR. COORDINATE WITH ARCHITECTURAL DRAWINGS AND VENDORS FOR WINDOW SPEC.
- DB — DURESS BUTTON, SURFACE MOUNTED TO WALL AT 46" OC AFF.
- SL — SECURITY LOCKING DEVICE, SURFACE MOUNTED ON OR IN PLACE OF DOOR HANDLE.
- GB — GLASS BREAK DETECTOR, SURFACE MOUNTED TO WALL AT 84" OC AFF. COORDINATE WITH WINDOW/DOOR LOCATION AND OPTIMAL MOUNTING HEIGHT AND LOCATION FOR FINAL PLACEMENT BASED ON MANUFACTURER'S INSTRUCTIONS.
- GB — GLASS BREAK DETECTOR, CEILING MOUNTED. COORDINATE WITH WINDOW/DOOR LOCATION FOR FINAL PLACEMENT BASED ON MANUFACTURERS INSTRUCTIONS.
- M — MOTION DETECTOR, SURFACE MOUNTED TO WALL AT 84" OC AFF. COORDINATE RECOMMENDED LOCATION AND MOUNTING HEIGHT WITH MANUFACTURER FOR FINAL PLACEMENT.
- M — MOTION DETECTOR, CEILING MOUNTED. COORDINATE RECOMMENDED LOCATION WITH MANUFACTURER FOR FINAL PLACEMENT.
- S — SOUND DETECTOR, SURFACE MOUNTED TO WALL AT 84" OC AFF. COORDINATE RECOMMENDED LOCATION AND MOUNTING HEIGHT WITH MANUFACTURER FOR FINAL PLACEMENT.
- V — VIBRATION DETECTOR, SURFACE MOUNTED TO WALL AT 84" OC AFF. COORDINATE RECOMMENDED LOCATION AND MOUNTING HEIGHT WITH MANUFACTURER FOR FINAL PLACEMENT.
- A — ALARM STROBE, SURFACE MOUNTED TO WALL AT 84" OC AFF. COORDINATE RECOMMENDED LOCATION AND MOUNTING HEIGHT WITH MANUFACTURER FOR FINAL PLACEMENT.

THE FOLLOWING ARE APPLICABLE TO THE ABOVE SECURITY SYSTEM SECTION AS NOTED IN THE DESIGN:

* (A)	ACTIVE INFRARED.
(P)	PASSIVE INFRARED.
(U)	ULTRASONIC.

ACCESS CONTROL SYSTEM

- CR — CARD READER, SURFACE MOUNTED TO WALL AT 46" OC AFF.
- BR — BIOMETRIC READER, SURFACE MOUNTED TO WALL AT 46" OC AFF.
- PB — PUSH BUTTON, SURFACE MOUNTED TO WALL AT 46" OC AFF.
- DP — DOOR POSITION SWITCH, CONSISTS OF COMPONENT RECESSED MOUNTED IN TOP FRAME OF DOOR AND COMPONENT RECESSED MOUNTED IN TOP OF THE DOOR.
- EL — ELECTRONIC LOCK, MOUNTED ON OR IN PLACE OF DOOR HANDLE. COORDINATE WITH ARCHITECT FOR DOOR HARDWARE.
- ES — ELECTRONIC STRIKE, MOUNTED ONTO FRAME OF DOORWAY. COORDINATE WITH ARCHITECT FOR DOOR HARDWARE.

THE FOLLOWING ARE APPLICABLE TO THE ABOVE CARD ACCESS SYSTEM SECTION AS NOTED IN THE DESIGN:

* (K)	CARD READER W/ KEYPAD. READER SHALL ALLOW KEYPAD ENTRY AS A SUBSTITUTE IN CASE CARD/BADGE/FOB/ETC. IS MISSING OR LOST.

TECHNOLOGY SYSTEMS GENERAL NOTES, CONDUIT ROUTING NOTES, AND ABBREVIATIONS

GENERAL NOTES

1. PRODUCTS SHALL BE OF MATERIALS THAT ARE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE TO BE INSTALLED.
2. WORKING CLEARANCES AROUND EQUIPMENT, RACKS, AND CABINETS SHALL BE MAINTAINED IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 110 AND OSHA. COORDINATE INSTALLATION TO MAINTAIN REQUIRED CLEARANCES.
3. IF AN OUTLET BOX IS REQUIRED TO BE LOCATED IN AN ASSEMBLY OR PARTITION RATED AS "FIRE/SMOKE" OR "SMOKE" OR IDENTIFIED AS SUCH, THEN ALL OF THE FOLLOWING CONDITIONS SHALL BE MET:
   A. THE OUTLET BOX SHALL BE METALLIC.
   B. THE OUTLET BOX OPENINGS SHALL OCCUR ONLY ON ONE SIDE OF THE FRAMING SPACE.
   C. THE OUTLET BOX OPENINGS SHALL NOT EXCEED 16 SQUARE INCHES.
   D. ALL CLEARANCES BETWEEN THE OUTLET BOX AND THE WALL BOARD MATERIAL SHALL BE COMPLETELY SEALED WITH APPROVED MATERIALS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS FOR THE PROJECT.
   E. PROVIDE A SUPPLEMENTAL BARRIER AROUND OUTLETS LARGER THAN 16 INCHES SO THAT THE ORIGINAL RATING OF THE PENETRATION IS MAINTAINED.
   F. THE TOTAL AGGREGATE SURFACE AREA OF THE OUTLET BOX SHALL NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET.
   G. THE OUTLET BOX SHALL BE SEPARATED FROM OPENINGS ON THE OPPOSITE SIDE OF THE RATED PARTITION BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES.
   H. THE OUTLET BOX SHALL BE SECURELY FASTENED TO A PARTITION FRAMING MEMBER BY MEANS OF AN APPROVED ATTACHMENT METHOD.
   I. OPENINGS CUT INTO THE WALL BOARD MATERIAL SHALL NOT EXCEED 1/8 INCH BETWEEN THE EDGES OF THE OUTLET BOX AND THE EDGES OF THE OPENING.
4. LOCATIONS OF EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE. COORDINATE EXACT EQUIPMENT LOCATION AND CONNECTION REQUIREMENTS WITH THE OWNER, ARCHITECT, PROJECT GC, AND APPROPRIATE TRADE PRIOR TO INSTALLATION.
5. FOR EXACT LOCATION OF CEILING MOUNTED EQUIPMENT REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN. LOCATIONS OF EQUIPMENT NOT INCLUDED ON THE REFLECTED CEILING PLAN SHALL BE COORDINATED WITH THOSE ITEMS SHOWN. COORDINATION OF CEILING MOUNTED EQUIPMENT SHALL BE COMPLETED PRIOR TO ANY ROUGH-IN. NOTIFY ENGINEER OF ANY DISCREPANCY.
6. CONTRACTOR TO PROVIDE FINAL CONNECTIONS TO OWNER PROVIDED EQUIPMENT WHERE INDICATED ON THE PLAN DRAWINGS.
7. PRIOR TO ROUGH-IN AND INSTALLATION OF ANY FLOOR MOUNTED DEVICE, VERIFY LOCATION WITH OWNER AND ARCHITECT.
8. VERIFY AND COORDINATE THE LOCATION OF REQUIRED DIVISION 27 AND 28 DEVICES WITH OTHER TRADE DRAWINGS AND OWNER PROVIDED EQUIPMENT.
9. ALL RACEWAY SYSTEMS INCLUDING CONDUITS, PULL STRINGS, AND BACK BOXES, TO SUPPORT THE INSTALLATION OF DIVISION 27 AND 28 EQUIPMENT SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. CONTRACTOR TO PROVIDE COORDINATION FOR THE INSTALLATION OF THIS RACEWAY SYSTEM WITH THE ELECTRICAL CONTRACTOR.
10. ELECTRICAL CONTRACTOR TO PROVIDE ALL SLEEVES AS REQUIRED FOR ALL LOW VOLTAGE CABLE PATHWAYS. RESTORE THE FIRE RATING OF THE SURFACE.
11. EACH TECHNOLOGY SYSTEMS OUTLET LOCATION SHOWN SHALL HAVE A DOUBLE GANG OUTLET BOX 4-11/16 INCHES X 4-11/16 INCHES X 2-3/4 INCHES WITH A SINGLE GANG PLASTER RING AND (1) ONE INCH CONDUIT, UNLESS OTHERWISE NOTED, STUBBED UP TO AN ACCESSIBLE LOCATION ABOVE THE FINISHED CEILING. WORK BY ELECTRICAL CONTRACTOR PER PLANS AND SPECIFICATIONS.
12. EACH TECHNOLOGY SYSTEMS OUTLET LOCATION SHOWN SHALL HAVE A CONDUIT WITH PULL STRING, STUBBED UP TO AN ACCESSIBLE LOCATION ABOVE THE FINISHED CEILING OR TO AN ACCESSIBLE CABLE TRAY WHERE PROVIDED.
13. EACH TECHNOLOGY FLOOR BOX MOUNTED ON THE FIRST FLOOR WITH A VOICE/DATA OUTLET SHALL HAVE A DOUBLE GANG SPACE WITHIN THE FLOOR BOX AND 1 INCH CONDUIT CONCEALED IN SLAB FROM THE OUTLET TO AN ACCESSIBLE LOCATION ABOVE THE FINISHED CEILING. WORK BY ELECTRICAL CONTRACTOR PER PLANS AND SPECIFICATIONS.
14. ALL BONDING AND GROUNDING ELEMENTS UTILIZED FOR THE STRUCTURE CABLING SYSTEM SHALL BE IN COMPLIANCE WITH PLANS AND SPECIFICATIONS.
15. CABLE WITHIN/UNDER SLAB ON GRADE USE OSP GEL-FILLED CABLES.
16. ALL MATERIALS AND EQUIPMENT PROVIDED UNDER THIS CONTRACT SHALL BE NEW AND CARRY A ONE YEAR MANUFACTURER'S WARRANTY. WARRANTY SHALL START ONE DAY AFTER OWNER'S ACCEPTANCE OF THE PROJECT.
17. CONTRACTOR TO PROVIDE AND INSTALL FIRE-STOPPING IN ALL CONDUITS PENETRATING RATED WALLS AFTER CABLING IS INSTALLED AND PROVIDE PHOTOGRAPHIC EVIDENCE OF COMPLIANCE WITH CODE, PLANS, AND SPECIFICATIONS.
18. ROUTE CABLING FOR EACH TECHNOLOGY SYSTEM BACK TO LOCAL HEAD-END TERMINATION BOARD OR CABINET AS SHOWN ON THE PLANS AND SPECIFICATIONS.
19. PROVIDE AND INSTALL TECHNOLOGY SYSTEMS CABLE/WIRING AS RECOMMENDED BY THE MANUFACTURER, APPLICABLE CODES AND STANDARDS, UNLESS OTHERWISE INDICATED ON DRAWINGS OR SPECIFICATIONS. WHERE CONFLICT EXISTS, THE LARGER SIZE SHALL BE USED.
20. TECHNOLOGY CABLES SHALL BE GROUPED IN BUNDLES OF 48 CABLES OR LESS.
21. TO AVOID EMI PROVIDE CLEARANCES OF THE FOLLOWING MINIMUM DISTANCES:
   A. 4' FROM MOTORS AND TRANSFORMERS
   B. 1' FROM ELECTRICAL CONDUITS USED FOR POWER DISTRIBUTION
   C. 1' FROM FLUORESCENT LIGHTING FIXTURES
22. TECHNOLOGY PATHWAYS SHALL CROSS FLUORESCENT FIXTURES AND POWER CONDUITS PERPENDICULARLY WITH PROPER SEPARATION.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULL COORDINATION OF ALL WORK AND EQUIPMENT IDENTIFIED IN THE DRAWINGS AND SPECIFICATIONS FOR A COMPLETE SOLUTION OF MULTIPLE, FULLY FUNCTIONAL TECHNOLOGY SYSTEMS AS DESCRIBED WITHIN THIS PACKAGE.
24. ALL DATA CABLING SHALL BE CAT-6A UNO.
25. BUILDING IS RETURN AIR PLENUM. PROVIDE PLENUM RATED CONDUITS, BOXES, RACEWAYS. AND MATERIALS...ETC
26. ALL DATA CABLING SHALL PLENUM RATED UNO.
27. ALL WIRELESS ACCESS POINT (WAP) LOCATIONS ARE DIAGRAMMATICAL. LOW VOLTAGE CONTRACTOR SHALL PERFORM SIGNAL STRENGTH ANALYSIS AND PRODUCE A HEAT MAP TO DETERMINE FINAL QUANTITY OF WIRELESS ACCESS POINTS.
28. WHERE EQUIPMENT, CABLE TERMINATIONS, PULL BOXES, OR OTHER EQUIPMENT OR MATERIALS ARE INSTALLED ABOVE INACCESSIBLE CEILINGS OR BEHIND WALLS THE CONTRACTOR SHALL PROVIDE AND INSTALL LOCKING ACCESS PANELS. ALL ACCESS PANELS SHALL BE KEYED ALIKE. REFER TO ARCHITECTURAL PLANS FOR ACCESS PANEL LOCATIONS WHEN REQUIRED.

CONDUIT ROUTING NOTES

1. ONLY EMT OR RIGID SHALL BE USED FOR ALL CONDUIT INSTALLATIONS ABOVE GRADE.
2. ALL BURIED CONDUITS SHALL BE A MINIMUM OF 36 INCHES BELOW GRADE. MAINTAIN A MINIMUM OF 1 FOOT (12 INCHES) OF SEPARATION BETWEEN POWER CONDUITS AND TECHNOLOGY SYSTEMS CONDUITS.
3. CONTRACTOR SHALL PROVIDE A MINIMUM 24 INCHES AGGREGATE BASE BELOW EACH MANHOLE, OR HANDHOLE.
4. ALL CONDUIT ENTRY PENETRATION POINTS MUST BE PROPERLY SEALED AND PACKED TO PREVENT GASES OR RODENT INTRUSION.
5. ALL MANHOLES, VAULTS, AND PULL BOXES MUST HAVE TRAFFIC RATED COVERS MINIMUM 20,000 LBS RATED.
6. ALL CONDUITS SHALL BE PROVIDED WITH PULL STRINGS AND PLASTIC BUSHINGS ON THE ENDS.
7. ALL CONDUITS BETWEEN BUILDINGS, MANHOLES, AND/OR VAULTS SHALL BE SLOPED DOWN AT 1% FROM THE BUILDING OR CENTER POINT BETWEEN VAULTS.
8. ALL UNDERGROUND CONDUITS SHALL BE CLEANED USING A MANDREL AFTER INSTALLATION AND PRIOR TO SYSTEM TURN-OVER.
9. TECHNOLOGY SYSTEM PATHWAYS IN ACCESSIBLE CEILING SPACES MAY BE PROVIDED UTILIZING DEDICATED CABLE SUPPORTS RATED FOR THE RESPECTIVE CEILING SPACE (PLENUM OR NON-PLENUM) AND INSTALLED PER APPLICABLE CODES AND STANDARDS. FOR NON-ACCESSIBLE CEILING SPACES A CONTINUOUS PATHWAY, CONDUITS SHALL BE PROVIDED.
10. ALL PATHWAYS SHALL BE SIZED AS RECOMMENDED BY THE MANUFACTURERS AND APPLICABLE CODES AND STANDARDS. NO PATHWAY CABLE FILL SHALL EXCEED 40% FILL.
11. FIRE ALARM, SECURITY, ACCESS CONTROL, CLOSED CIRCUIT VIDEO SURVELLANCE, AND CABLING SHALL BE INSTALLED IN COLOR CODED AND LABELED CONDUITS AND JUNCTION BOXES, UNLESS OTHERWISE NOTED.
12. INTERIOR CONDUIT RUNS SHALL BE PROVIDED WITH PULL BOXES AT A MINIMUM OF EVERY 100 FEET OR AFTER TWO 90 DEGREE BENDS OR AFTER A TOTAL OF 180 DEGREES OF BENDS.
13. EXTERIOR CONDUIT RUNS SHALL BE PROVIDED WITH HANDHOLES AT A MINIMUM OF EVERY 300 FEET OR AFTER TWO 90 DEGREE BENDS OR AFTER A TOTAL OF 180 DEGREES OF BENDS.
14. BACKBONE RACEWAYS SHALL HAVE A MINIMUM SIZE OF 2 INCHES.
15. HORIZONTAL RACEWAYS SHALL HAVE A MINIMUM SIZE OF 3/4 INCHES.
16. SLEEVES SHALL BE INSTALLED ABOVE CEILINGS IN ALL WALLS, RATED OR NOT. SLEEVES SHALL BE SIZED AND IN THE QUANTITIES TO SUPPORT THE NUMBER OF CABLES AND FILL IS NOT TO EXCEED 40%.
17. THE USE OF SURFACE MOUNTED RACEWAYS IN NEW CONSTRUCTION IS NOT ACCEPTABLE. ALL SURFACE MOUNTED RACEWAY INSTALLATION MUST BE APPROVED BY OWNER PRIOR TO INSTALLATION.
18. WHEN INSTALLED IN ACCESSIBLE CEILING SPACES, APPROVED HOOKS SHALL BE INSTALLED TO CONFORM WITH BUILDING LINES AND BE SPACED NO MORE THEN 5 FEET APART. PROVIDE TWO HOOKS AT 90 DEGREE CORNERS.
19. CABLE BUNDLES SHALL BE SECURED WITH VELCRO EVERY 2 FEET AND SHALL ALSO BE SECURED TO HOOKS.
20. CABLE SAG BETWEEN HOOKS SHALL NOT EXCEED 2 INCHES.
21. EACH TECHNOLOGY SYSTEM CABLING SHALL BE BUNDLED SEPARATELY AND SHALL HAVE SEPARATE SUPPORT BRACKETS.
22. WHERE EQUIPMENT, CABLE TERMINATIONS, PULL BOXES, OR OTHER EQUIPMENT OR MATERIALS ARE INSTALLED ABOVE INACCESSIBLE CEILINGS OR BEHIND WALLS THE CONTRACTOR SHALL PROVIDE AND INSTALL LOCKING ACCESS PANELS. ALL ACCESS PANELS SHALL BE KEYED ALIKE.

ABBREVIATIONS

AC	ACCESS CONTROL (SECURITY)
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ANNUN	ANNUNCIATOR
ARCH	ARCHITECT
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATED SYSTEMS
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BICSI	BUILDING INDUSTRY CONSULTANT SERVICES INTERNATIONAL
BLDG	BUILDING
C	CONDUIT
CA	CARD ACCESS (SECURITY)
CAB	CABINET
CAT	CATEGORY
CATV	COMMUNITY ACCESS TELEVISION
CCTV	CLOSED CIRCUIT TV (SECURITY)
CKT	CIRCUIT
CU	COPPER
DEMARK	SERVICE PROVIDER TERMINATION
DN	DOWN
E	EXISTING
ER	EQUIPMENT ROOM
ERL	EXISTING TO BE RELOCATED
ETR	EXISTING TO REMAIN
EXT	INTERNAL OUTLET FOR EXTERNAL DEVICE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FOB	FURNISHED BY OTHERS
FT	FEET
GND	GROUND
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPT
HC	HORIZONTAL CROSS CONNECT
HDMI	HIGH DEFINITION MEDIA INTERFACE
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED GROUND
KVA	KILOVOLT - AMPERES
KW	KILOWATTS
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MDF	MAIN DISTRIBUTION FRAME
MISC	MISCELLANEOUS
NEC	NATIONAL ELECTRICAL CODE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NIC	NOT IN CONTRACT
OC	ON CENTER LINE
OF	OWNER FURNISHED
OFOI	OWNER FURNISHED OWNER INSTALLED
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOVI	OWNER FURNISHED OWNER'S VENDOR INSTALLED
PDS	PREMISE DISTRIBUTION SYSTEM
PM	PROJECT MANAGER
POS	POINT OF SALE
PTZ	PAN, TILT ZOOM CAMERA
PVC	POLYVINYL CHLORIDE
R	RECESSED
RCDD	REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
RGB	15 PIN AV CONNECTOR
RK	RACK
SATV	SATELLITE TV SOURCE
SURF	SURFACE
SVGA	15 PIN AV CONNECTOR
TGB	TELCOM GND BUS BAR
TMGB	TELCOM MAIN GND BUS BAR
TSER	TELECOMMUNICATIONS SERVICE
TV	TELEVISION
UNIV	UNIVERSAL
UON	UNLESS OTHERWISE NOTED
USB	UNIVERSAL SERIAL BUS
USC	UNDER SEPARATE CONTRACT
UTP	UNIFORM TWISTED PAIRS
VGA	15 PIN AV CONNECTORS
W	WALL MOUNTED
WAP	WIRELESS ACCESS POINT
WP	WEATHERPROOF

ADDITIONAL ABBREVIATIONS MAY BE USED AND IDENTIFIED IN THE SPECIFICATIONS OR DRAWINGS.

CABLE COLORING CONVETION	
DATA - (COMPUTERS, HVAC, IRRIGATION, METERS, SMART DEVICES...ETC)	BLUE
PHONE - (IP BASED TEAMS PHONES)	RED
ACCESS POINTS (APs, WAPS)	GREEN
CCTV (CAMERAS)	PURPLE
ACCESS CONTROL	YELLOW

CONDUIT - TRADE SIZE (INCHES) EMT	CABLE OUTSIDE DIAMETER * CAT-6A U/UTP ~ 0.230 # OF CABLES (40% FILL)
3/4	5
1	8
1-1/4	14
1-1/2	19
2	32
2-1/2	56
3	85
3-1/2	111
4	142
*BOD: LANMARK LM-ROT CAT6A UTP CMP	

CONDUIT - TRADE SIZE (INCHES) EMT	CABLE OUTSIDE DIAMETER * CAT-6A F/UTP ~ 0.275 # OF CABLES (40% FILL)
3/4	3
1	5
1-1/4	10
1-1/2	13
2	22
2-1/2	39
3	59
3-1/2	77
4	99
*BOD: LANMARK-10G FTP PLENUM	

CONDUIT - TRADE SIZE (INCHES) SCH-40	CABLE OUTSIDE DIAMETER * CAT-6A U/UTP ~ 0.230 # OF CABLES (40% FILL)
3/4	4
1	8
1-1/4	13
1-1/2	19
2	31
2-1/2	45
3	69
3-1/2	93
4	120
*BOD: LANMARK LM-ROT CAT6A UTP CMP	

CONDUIT - TRADE SIZE (INCHES) SCH-40	CABLE OUTSIDE DIAMETER * CAT-6A F/UTP ~ 0.275 # OF CABLES (40% FILL)
3/4	3
1	5
1-1/4	9
1-1/2	13
2	22
2-1/2	31
3	48
3-1/2	65
4	84
*BOD: LANMARK-10G FTP PLENUM	

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DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

PROJECT STATUS

90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

1007657.00

SHEET TITLE

GENERAL NOTES - TECHNOLOGY

SHEET NUMBER

T0.01

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/RBPD_MEPF_R24.rvt
DATE STAMP: 10/23/2025 11:56:38 AM



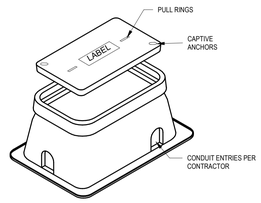
GENERAL SITE NOTES:

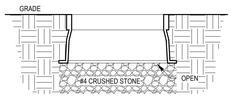
1. ALL CONDUIT TERMINATIONS AT TERMINAL BOARDS SHALL HAVE BUSHED CONDUIT ENDS.
2. RACEWAY, POWER, AND GROUNDING REQUIREMENTS SHALL COMPLY WITH SECTIONS OF DIVISION 26. WHERE A CONFLICT ARISES THE MOST STRINGENT REQUIREMENTS SHALL APPLY.
3. ALL RACEWAY TERMINATIONS SHALL HAVE BUSHING AND SHALL BE GROUNDED WHERE RACEWAY IS METALLIC.
4. PROVIDE FIRESTOPPING ON ALL CONDUITS PENETRATING A RATED WALL OR FLOOR.
5. ALL CONDUITS AND CABLE SHALL BE CONCEALED UNLESS OTHERWISE NOTED OR APPROVED IN WRITING BY OWNER AND/OR ENGINEER.
6. MINIMUM SIZE CONDUIT SHALL BE 4", UNLESS OTHERWISE NOTED.
7. ALL NEW CONDUIT PATHWAYS SHOWN ARE CONDUITS WITH RADIUS 12" ELBOWS WHERE REQUIRED, UNLESS OTHERWISE NOTED. PLASTIC BUSHING AND THREE (3) 3" 3-CELL MAXCELL EDGE FABRIC INNERDUCTS WITH PULL STRINGS ARE REQUIRED IN ALL CONDUITS.
8. STUB UP CONDUITS 4" BEYOND FLOORS THAT THEY ARE PENETRATING AT A MINIMUM, INSTALL A PLASTIC INSULATING BUSHING, SEAL CONDUITS AFTER INSTALLATION OF CABLES. SEAL ALL UNUSED CONDUITS WITH RENEWABLE FIRESTOP PLUG HILTI CFS SERIES.
9. PROVIDE ADDITIONAL HANDHOLES AND MANDHOLE AS REQUIRED TO FACILITATE CONDUIT RUNS AND CABLE PULLING. CONDUIT PATHWAYS SHALL HAVE NO MORE THAN 270 DEGREES OF BEND IN A 500' RUN WITHOUT A HANDHOLE/MANHOLE INSTALLED.
10. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS FOR TECHNOLOGY DEVICES WITH OTHER DIVISION 26, 27, AND 28 CONTRACTORS AND GENERAL CONTRACTOR ENSURING PROPER CLEARANCE PER NEC AND SPECIFICATIONS.
11. COORDINATE EXACT LOCATIONS FOR CONDUIT AND PENETRATIONS WITH GENERAL CONTRACTOR AND PROJECT MANAGER.
12. ALL NEW CONDUIT PATHWAYS, MANHOLES, HANDHOLES, AND ROOMS SHOWN ARE SHOWN FOR DIAGRAMMATIC PURPOSES ONLY AND THE CONTRACTOR SHALL CONFIRM THE EXACT LOCATIONS PRIOR TO CONDUIT ROUTING.

KEYNOTES:

1. PROPOSED LOCATION FOR INTERNET SERVICE PROVIDER (ISP) PULL BOX. REFER TO RISER DIAGRAM ON SHEET T3.01 FOR ADDITIONAL INFORMATION.
2. PROPOSED LOCATION FOR CROWN CASTLE PULL BOX.(PRIVATE NETWORK). REFER TO RISER DIAGRAM ON SHEET T3.01 FOR ADDITIONAL INFORMATION.
3. PROPOSED LOCATION FOR PBC PULL BOX.(COUNTY NETWORK), REFER TO RISER DIAGRAM ON SHEET T3.01 FOR ADDITIONAL INFORMATION.
4. REFER TO SHEETS T3.01 AND T3.02 FOR ADDITIONAL CONDUIT TO BE PROVIDED BETWEEN THE MAIN BUILDING AND THE EVIDENCE/GUN RANGE BUILDING.
5. PROVIDE (1) 3/4" CONDUIT TO GATE CONTROLLER FOR DATA CABLING. EXTEND CONDUIT TO ENTRY KEYPAD PEDESTAL. TERMINATE CONDUIT IN GROUND FLOOR IT ROOM. EXTEND (1) 3/4" CONDUIT FROM GATE CONTROLLER TO ENTRY PEDESTAL/KEYPAD.
6. PROPOSED LOCATION FOR CCTV CAMERA POLE. CAMERAS TO BE MOUNTED 15'-0" AFF. PROVIDE (1) 3/4" CONDUIT FOR MMFO CABLING, TERMINATE CONDUIT IN 2ND FLOOR IT ROOM. REFER TO DETAIL #1 ON SHEET T4.02 FOR ADDITIONAL INFORMATION. REFER TO POLE DETAIL ON SHEET E6.04 FOR POLE SPECIFICATION.
7. PROVIDE SPARE PULL BOX FOR FUTURE UTILITY CONNECTIONS. COORDINATE FINAL CONNECTION REQUIREMENTS WITH OWNER PRIOR TO THE START OF ANY UNDERGROUND WORK.

SITE PLAN - TECHNOLOGY 3/64" = 1'-0" (1)





NOTES:
A. BOXES TO BE SIZED PER NEC 314.28 BASED UPON FIELD CONFIGURATION OF CONDUIT ENTRIES. PROVIDE EXTENSIONS WHERE REQUIRED.
B. BOX AND LID TO BE CONSTRUCTED OF POLYMER CONCRETE. LID TIER RATING PER INSTALLED LOCATION.
C. REFER TO SPECIFICATIONS FOR RELATED INFORMATION.

(2) PULL BOX DETAIL
NTS

FILE NAME: Autodesk Docs:// 1007657.00 - CORE - City of Riviera Beach D/RBPD_MEPF_R24.rvt
DATE STAMP: 10/23/2025 11:57:33 AM

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DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

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PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
SITE PLAN - TECHNOLOGY

SHEET NUMBER
T0.10

KEYNOTES:

1. PROVIDE 19W"X6H" CABLE TRAYS IN MAIN CORRIDORS TO SUPPORT HORIZONTAL CABLING REQUIREMENTS ACROSS THE FACILITY. PROVIDE CABLE TRAYS WITH METAL TRAY INSERT FOR SECURITY. COORDINATE FINAL CABLE TRAY ROUTING WITH OTHER TRADES PRIOR ROUGH-IN.
   BASIS OF DESIGN: CABLOFIL CF150/450
2. PROVIDE 12W"X6H" CABLE TRAYS IN SECONDARY CORRIDORS TO SUPPORT HORIZONTAL CABLING REQUIREMENTS ACROSS THE FACILITY. PROVIDE CABLE TRAYS WITH METAL TRAY INSERT FOR SECURITY. COORDINATE FINAL CABLE TRAY ROUTING WITH OTHER TRADES PRIOR ROUGH-IN.
   BASIS OF DESIGN: CABLOFIL CF150/300
3. PROPOSED LOCATION FOR BDA ANNUNCIATOR. TIE INTO FIRE ALARM SYSTEM. COORDINATE FINAL LOCATION WITH OTHER TRADES PRIOR TO ROUGH-IN.
4. HOMERUN (1) 1" CONDUIT FROM FLOOR BOX TO IT ROOM 110. REFER TO SHEET E2.01 FOR FLOOR BOX SPECIFICATIONS. CONTRACTOR TO RUN CONDUIT IN SLAB AND NOT PENETRATE VAPOR BARRIER. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH OTHER TRADES PRIOR TO ROUGH-IN.
5. PROVIDE DATA OUTLET 66" AFF AT WALL DIGITAL DISPLAY LOCATION. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH OTHER TRADES PRIOR TO ROUGH-IN.
6. PROVIDE (1) 1" CONDUIT FROM WALL DIGITAL DISPLAY TO CLOSEST FLOOR BOX AT CONFERENCE TABLE. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH OTHER TRADES PRIOR TO ROUGH-IN.
7. WIRE GLASSBREAK DETECTOR TO SECURITY PANEL LOCATED IN IT ROOM 110. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH OTHER TRADES PRIOR TO ROUGH-IN. (TYPICAL)
8. PROVIDE MULLION CARD READER AT LOCATION WITH GLASS WALLS. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.
9. PROVIDE CONFERENCE ROOM TOUCH SCREEN SCHEDULER. COORDINATE ADDITIONAL REQUIREMENTS WITH END USER PRIOR TO ROUGH-IN.
10. PROVIDE DURESS ALARM BUTTON. COORDINATE FINAL LOCATION WITH END USER PRIOR TO ROUGH-IN.
11. PROPOSED LOCATION FOR DURESS ALARM STROBE. COORDINATE FINAL LOCATION WITH END USER AND ARCHITECT PRIOR TO ROUGH-IN.
12. PROVIDE DATA DROP AT PHOTO COPIER MACHINE. COORDINATE FINAL LOCATION OF PHOTO COPIER MACHINE WITH ARCHITECT/ID AND OWNER PRIOR TO ROUGH-IN.
13. PROVIDE DATA DROP AT DIGITAL DISPLAYS. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.
14. PROVIDE 1-1/4" CONDUIT TO FROM FLOOR BOX TO J-BOX IN WALL AND EXTEND TO POINT ABOVE ACCESSIBLE CEILING FOR LOW VOLTAGE CABLING. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH AV CONTRACTOR PRIOR TO ROUGH-IN.
15. EXTEND SPEAKERS/MICROPHONE TO 2ND FLOOR RTV SERVER VIA 3/4" RACEWAY. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH AV CONTRACTOR PRIOR TO ROUGH-IN.
16. PROVIDE J-BOX FOR LOW VOLTAGE AV CABLING. EXTEND 1-1/4" CONDUIT ABOVE TO ACCESSIBLE CEILING LOCATION. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS AND LOCATIONS WITH AV CONTRACTOR PRIOR TO ROUGH-IN.
17. PROVIDE 35' EXTRA FEEL OF CABLE COILED ABOVE CEILING. COORDINATE ADDITIONAL LOW VOLTAGE CONNECTION REQUIREMENTS WITH END USER PRIOR TO ROUGH-IN.
18. PROPOSED LOCATION FOR GENERATOR ANNUNCIATOR PANEL. COORDINATE FINAL LOCATION WITH AHJ AND ARCHID PRIOR TO ROUGH-IN.

GENERAL NOTES:

1. CONTRACTOR SHALL ADHERE TO ALL INDUSTRY STANDARDS AND LOCAL BUILD REQUIREMENTS AS IDENTIFIED IN THE DRAWINGS AND SPECIFICATIONS.
2. CONTRACTORS SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS OF THE PLANS AND SPECIFICATIONS FOR A COMPLETE AND OPERATIONAL SYSTEM.
3. COORDINATE EXACT INSTALLATION REQUIREMENTS OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS AND ACCEPTED MILLWORK SHOP DRAWINGS.
4. BACKBOXES FOR TECHNOLOGY EQUIPMENT SHALL BE OFFSET INTO SEPARATE STUD CAVITIES FROM BOXES SERVING ADJACENT SPACES WHEREVER POSSIBLE. CONTRACTOR SHALL COORDINATE FINAL ROUGH-IN LOCATION OF ALL DEVICES WITH APPROVED FURNITURE PLANS TO ASSURE THAT DATA/VOICE OUTLETS ARE ACCESSIBLE AND THAT CABLE OR PLUG CONNECTIONS DO NOT CONFLICT WITH INTENDED FURNITURE PLACEMENT.
5. COORDINATE THE LOCATION OF VOICE/DATA/AV OUTLETS WITH POWER RECEPTACLES WHERE EQUIPMENT SHALL BE SERVED BY MULTIPLE SYSTEMS. COORDINATE WITH POWER DRAWINGS.
6. RACEWAY, TECHNOLOGY, AND GROUNDING REQUIREMENTS SHALL COMPLY WITH SECTIONS OF DIVISION 26 AND 27. WHERE A CONFLICT ARISES THE MOST STRINGENT REQUIREMENTS SHALL APPLY.
7. ALL RACEWAY TERMINATIONS SHALL HAVE BUSHINGS AND SHALL BE GROUNDED WHERE RACEWAY IS METALLIC.
8. ALL RACEWAYS AND CABLE INSTALLED IN FINISHED SPACES SHALL BE CONCEALED UNLESS NOTED OR APPROVED IN WRITING BY OWNER AND/OR ENGINEER.
9. REFER TO MANUFACTURER OF EACH EQUIPMENT ITEM FOR EXACT DATA REQUIREMENTS PRIOR TO ROUGH-IN.
10. ALL PATHWAYS SHOWN ARE CONDUITS WITH 12" RADIUS ELBOWS WHERE REQUIRED, UNLESS NOTED OTHERWISE. PLASTIC BUSHINGS AND PULL STRINGS ARE REQUIRED IN ALL CONDUITS.
11. STUB ALL CONDUITS 4" BEYOND WALLS OR FLOORS THEY ARE PENETRATING AT A MINIMUM. INSTALL PLASTIC BUSHINGS. SEAL CONDUITS AFTER INSTALLATION OF CABLES. SEAL ALL UNUSED CONDUITS WITH A REMOVABLE PLUG.
12. CABLE TRAY LAYOUT IS DIAGRAMMATIC. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND ADD SECTIONS AND ACCESSORIES AS NEEDED TO AVOID CONFLICTS WITH OTHER TRADES WHILE MAINTAINING CABLE QUANTITIES.
13. DIVISIONS 26, 27, AND 28 CONTRACTORS SHALL COORDINATE TO PROVIDE PROPER INFRASTRUCTURE REQUIREMENTS (CONDUITS AND BOXES) FOR ALL ACCESS CONTROL AND SECURITY REQUIREMENTS WITH ARCHITECTURAL PLANS INCLUDING DOOR SCHEDULES.



1ST FLOOR PLAN - TECHNOLOGY 1/8" = 1'-0" (1)

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PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

1007657.00

SHEET TITLE

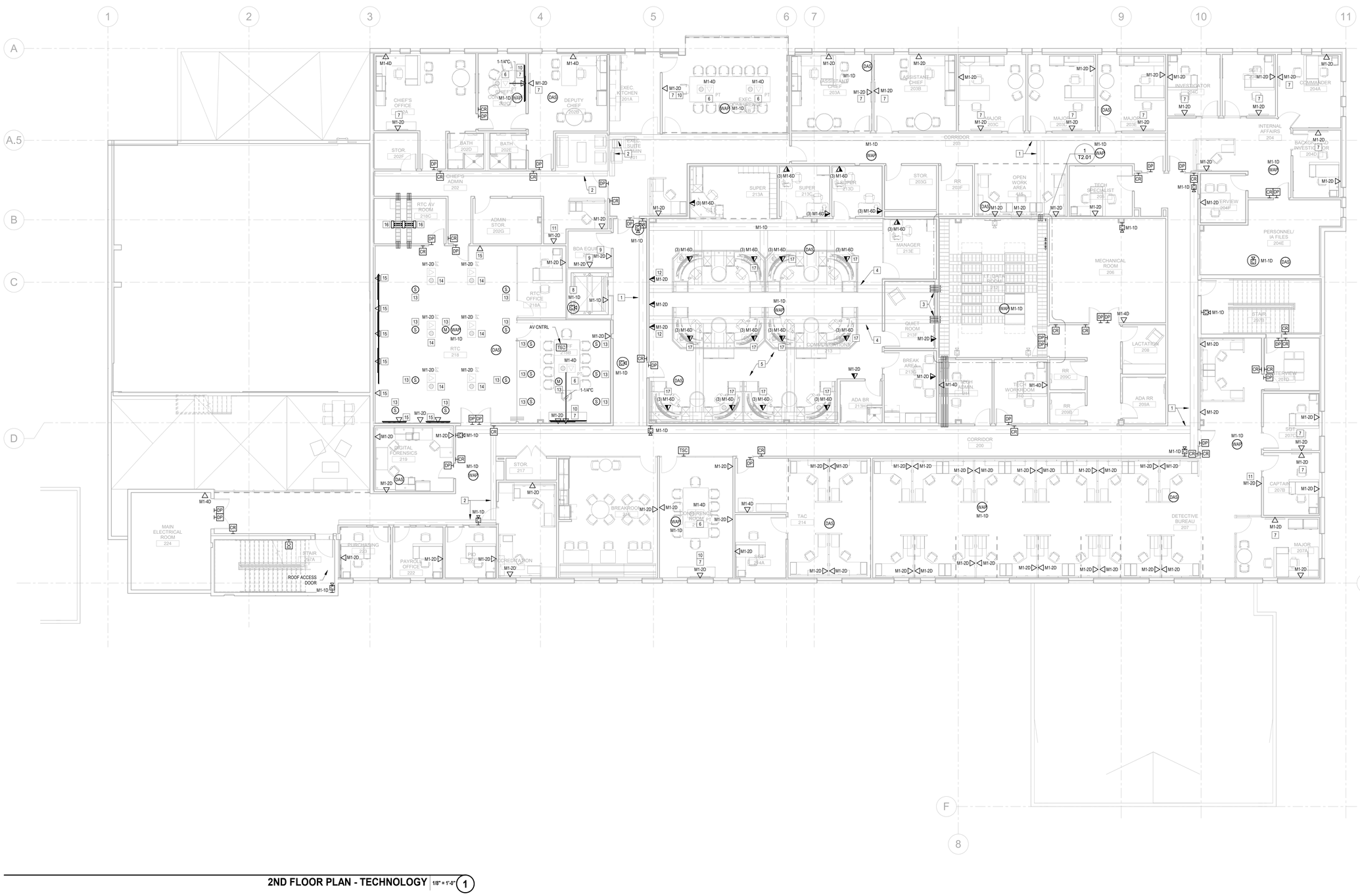
1ST FLOOR PLAN - ADMIN - TECHNOLOGY

SHEET NUMBER

T1.01

KEYNOTES:

1. PROVIDE 18W"X6H" CABLE TRAYS IN MAIN CORRIDORS TO SUPPORT HORIZONTAL CABLING REQUIREMENTS ACROSS THE FACILITY. PROVIDE CABLE TRAYS WITH METAL TRAY INSERT FOR SECURITY. COORDINATE FINAL CABLE TRAY ROUTING WITH OTHER TRADES PRIOR ROUGH-IN.
BASIS OF DESIGN: CABLOFIL CF150/450
2. PROVIDE 12W"X6H" CABLE TRAYS IN SECONDARY CORRIDORS TO SUPPORT HORIZONTAL CABLING REQUIREMENTS ACROSS THE FACILITY. PROVIDE CABLE TRAYS WITH METAL TRAY INSERT FOR SECURITY. COORDINATE FINAL CABLE TRAY ROUTING WITH OTHER TRADES PRIOR ROUGH-IN.
BASIS OF DESIGN: CABLOFIL CF150/300
3. PROVIDE 4" CONDUITS FROM IT ROOM 212 TO UNDERFLOOR CABLE TRAY SYSTEM IN COMMUNICATIONS ROOM 213.
4. PROVIDE 18W"X2H" UNDERFLOOR CABLE TRAY. PROVIDE WITH SUPPORT BRACKETS AND STANDS. COORDINATE FINAL CABLE TRAY ROUTING WITH ARCHITECT AND FURNITURE VENDOR PRIOR TO ROUGH-IN.
BASIS OF DESIGN: CABLOFIL CF54/450
5. ALL DATA CABLING IN COMMUNICATIONS ROOM 213 FOR WORK STATIONS, DATA OUTLETS AND WIRELESS ACCESS POINTS SHALL BE TYPE F/UTP.
6. HOMERUN (1) 1-1/4" CONDUIT FROM POKE-THRU TO IT ROOM 212. REFER TO SHEET E2.02 FOR POKE THRU SPECIFICATIONS. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH OTHER TRADES PRIOR TO ROUGH-IN
7. PROVIDE DATA OUTLET 66" AFF AT WALL DIGITAL DISPLAY LOCATION. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH OTHER TRADES PRIOR TO ROUGH-IN. EXTEND 1-1/4" CONDUIT ABOVE TO ACCESSIBLE CEILING LOCATION.
8. COORDINATE CCTV CAMERA INTEGRATION WITH ELEVATOR MANUFACTURER PRIOR TO ROUGH-IN.
9. COORDINATE FINAL LOCATION OF BDA EQUIPMENT WITH FIRE PROTECTION CONTRACTOR TO MAINTAIN CLEARANCES INFRONT OF EQUIPMENT PRIOR TO ROUGH-IN.
10. PROVIDE (1) 1-1/4" CONDUIT FROM WALL DIGITAL DISPLAY TO CLOSEST POKE-THRU AT CONFERENCE TABLE. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH OTHER TRADES PRIOR TO ROUGH-IN.
11. PROVIDE DATA DROP AT PHOTO COPIER MACHINE. COORDINATE FINAL LOCATION OF PHOTO COPIER MACHINE WITH ARCHITECT/ID AND OWNER PRIOR TO ROUGH-IN.
12. PROVIDE DATA DROP AT DIGITAL DISPLAY WALL. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH EQUIPMENT MANUFACTURER AND OWNER PRIOR TO ROUGH-IN.
13. EXTEND SPEAKERS/MICROPHONE TO 2ND FLOOR RTV SERVER VIA 3/4" RACEWAY. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH AV CONTRACTOR PRIOR TO ROUGH-IN.
14. EXTEND 1-1/4" CONDUIT FROM AV POKE-THRU TO ABOVE TO NEAREST ACCESSIBLE CEILING.
15. PROVIDE J-BOX FOR LOW VOLTAGE AV CABLING. EXTEND 1-1/4" CONDUIT ABOVE TO ACCESSIBLE CEILING LOCATION. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS AND LOCATIONS WITH AV CONTRACTOR PRIOR TO ROUGH-IN.
16. AV CABINETS BY OTHERS. EC TO PROVIDE CONDUITS AND PATHWAYS TO AV ROOM 218C. COORDINATE ADDDITIONAL CONNECTION REQUIREMENTS WITH OTHER TRADES PRIOR TO ROUGH-IN.
17. COORDINATE FINAL DATA CONNECTION AND TERMINATION REQUIREMENTS WITH COMMS FURNITURE VENDOR AND OTHER TRADES PRIOR TO ROUGH-IN.
18. PROVIDE CONFERENCE ROOM TOUCH SCREEN SCHEDULER. COORDINATE ADDITIONAL REQUIREMENTS WITH END USER PRIOR TO ROUGH-IN.



2ND FLOOR PLAN - TECHNOLOGY 1/8" = 1'-0" (1)

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DRAWING HISTORY

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PROJECT STATUS
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RIVIERA BEACH POLICE DEPARTMENT

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2121 AVENUE S.
RIVIERA BEACH, FL 33404

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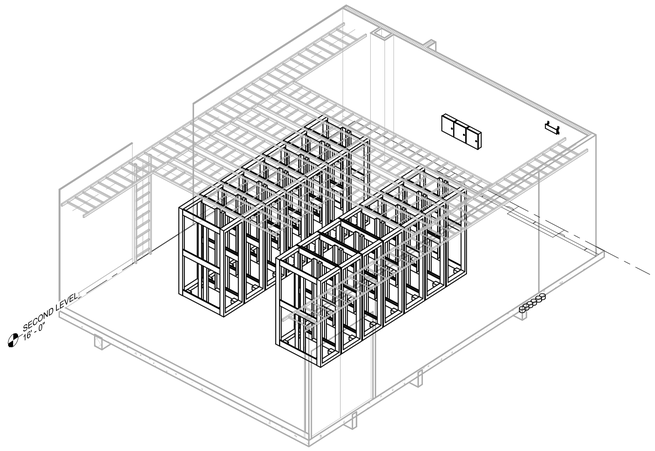
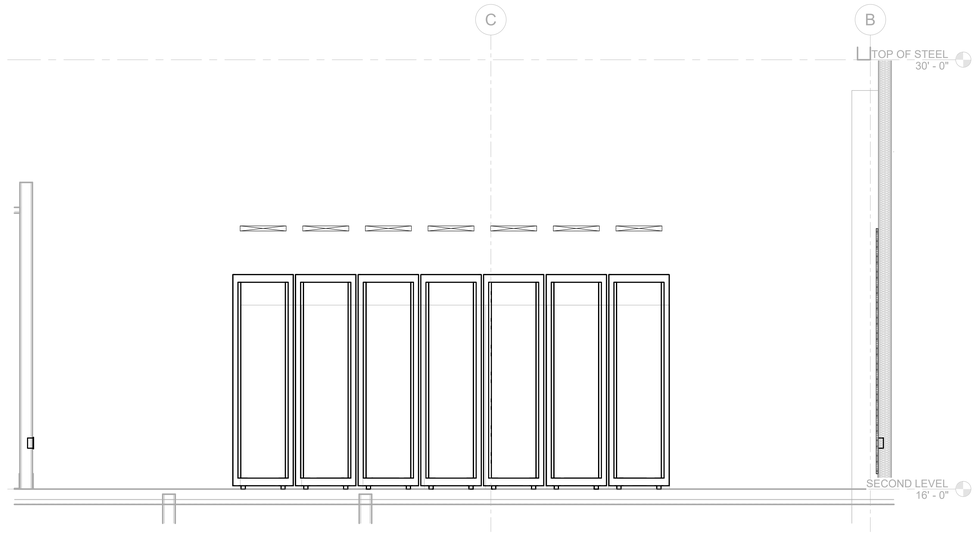
SHEET TITLE
2ND FLOOR PLAN - ADMIN - TECHNOLOGY

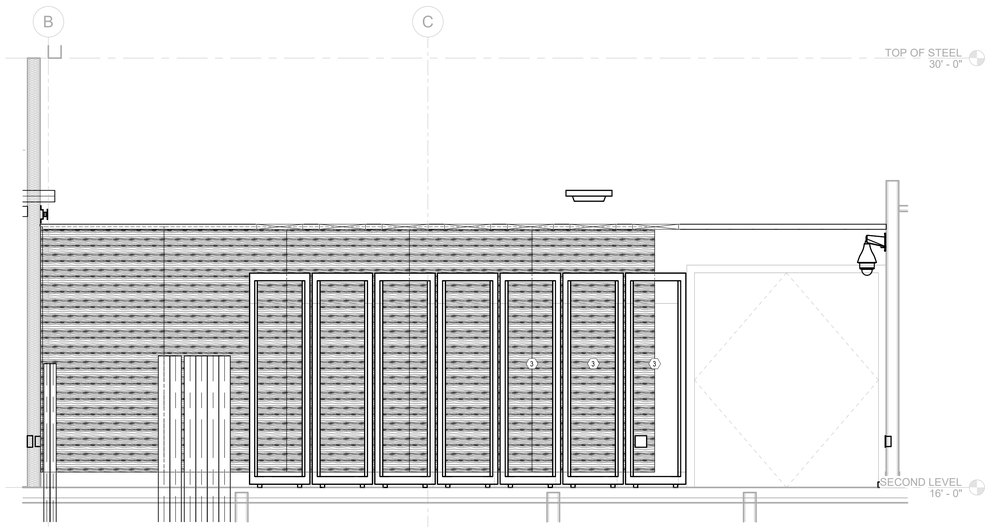
SHEET NUMBER
T1.02



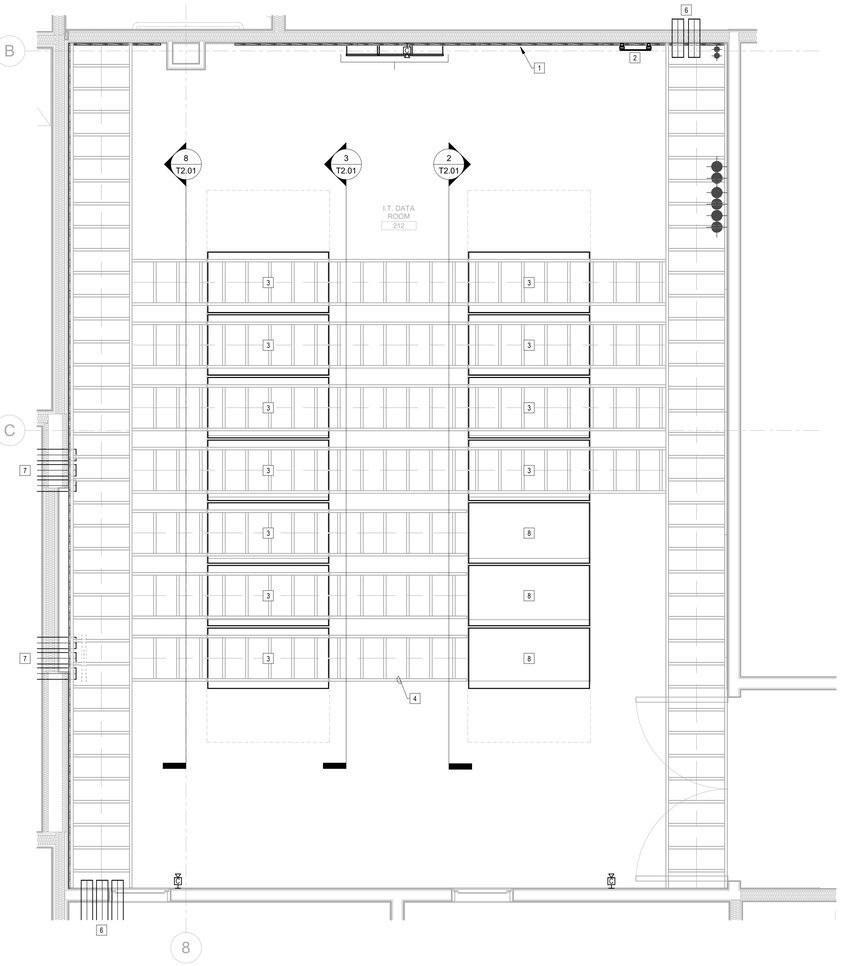
4 2ND FLOOR DATA ROOM



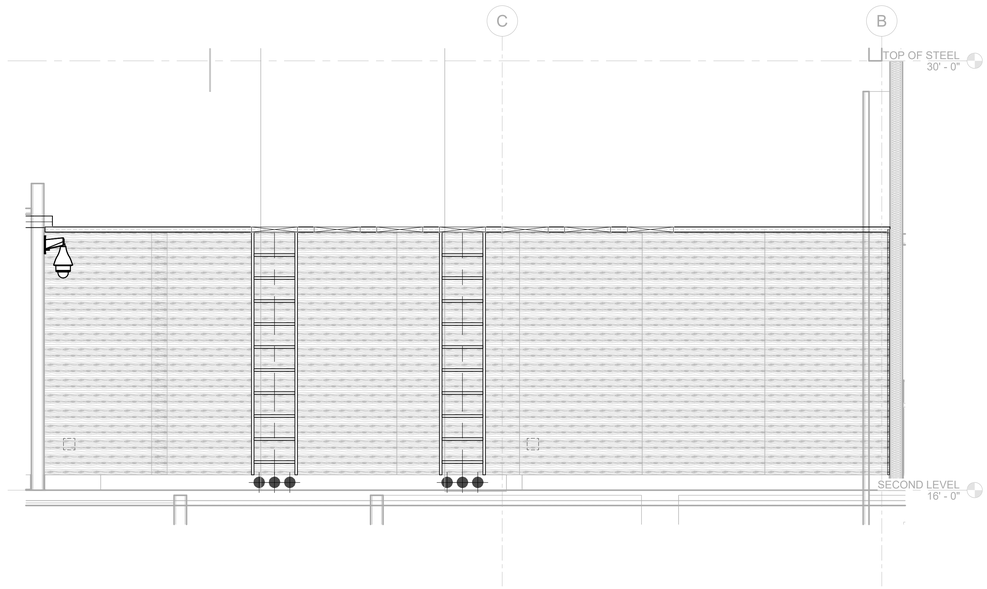
3 Section 12
1/2" = 1'-0"



2 Section 11
1/2" = 1'-0"



1 2ND FLOOR PLAN - TECHNOLOGY - Callout 1
1/2" = 1'-0"



8 Section 14
1/2" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR SHALL ADHERE TO ALL INDUSTRY STANDARDS AND LOCAL BUILDING REQUIREMENTS AS IDENTIFIED IN THE DRAWINGS AND SPECIFICATIONS AND DESIGN CRITERIA.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS OF THE PLANS AND SPECIFICATIONS FOR A COMPLETE AND OPERATIONAL SYSTEM.
3. CONTRACTOR TO PROVIDE AND INSTALL ALL EQUIPMENT, RACKS AND CABINETS IDENTIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS.
4. CONTRACTOR TO GROUND ALL CABLE TRAY, RACKS AND CABINETS AND BOLT ALL RACKS AND CABINETS TO THE FLOOR. SEE DETAIL SHEETS FOR ADDITIONAL REQUIREMENTS.
5. ALL ELECTRICAL POWER CONNECTION AND BUILDING GROUNDING SYSTEM BY DIVISION 26 CONTRACTOR.
6. COORDINATE LABELING WITH OWNER'S I.T. DEPARTMENT. PROVIDE ACCURATE LABELING AT TERMINATION RACKS, WORKSTATION FACEPLATES AND ON AS-BUILT DRAWINGS PER PLANS AND SPECS.
7. CONTRACTOR SHALL MAINTAIN CODE REQUIRED CLEARANCES AND INFORM ENGINEER OF ANY CLEARANCE CONFLICT.
8. EQUIPMENT SHOWN IN ENLARGED PLANS IS FOR DESIGN PURPOSES. THE OWNER IS RESPONSIBLE FOR CORRECT NUMBER OF NETWORK SWITCHES, EQUIPMENT. THE CONTRACTOR IS RESPONSIBLE FOR INFRASTRUCTURE AND CABLE MANAGEMENT.
9. EQUIPMENT SHOWN IN THE ENLARGED PLANS IS FOR DESIGN PURPOSES ONLY. THE CONTRACTOR SHALL RELOCATE RACKS/PANELS/CABLES TRAY AS REQUIRED FOR CONTRACTIBILITY PURPOSES FOR A ORGANIZED AND CLEAN INSTALLATION.
10. COORDINATE CONDUIT PENETRATIONS WITH ELECTRICAL CONTRACTOR WHERE ELECTRICAL AND I.T. ROOMS ARE STACKED ABOVE ONE ANOTHER PRIOR TO ROUGH-IN REGARDLESS OF WHAT IS SHOWN ON THE PLANS.

KEYNOTES:

1. PROVIDE 48"X96"X3/4" MARINE GRADE PLYWOOD BACKBOARD WRAPPED AROUND ROOM. MOUNT BACKBOARDS ABOVE WALL OUTLET HEIGHT. BACKBOARDS SHALL RECEIVE TWO (2) COATS OF FIRE RETARDANT WHITE PAINT. (CFCI)
2. PROVIDE NEW 4"X12" TELECOMMUNICATIONS GROUND BUS BAR. CONNECT TO BUILDING GROUND, GROUND LADDER RACK AND 2-POST RACKS. (CFCI)
3. 48"DX24"WX52UH SERVER CABINET SYSTEM. COORDINATE CABINET ACCESSORIES INCLUDING TOP PANELS, DOORS, BRACKETS, LATCHES, GROUND BLOCKS AND INTEGRAL CABLE MANAGEMENT WITH END USER PRIOR TO CABINET RELEASE. BOD: APC NETSHELTER OR APPROVED EQUAL. (CFCI)
4. PROVIDE NEW LADDER TRAY. MINIMUM WIDTH IS 12". PROVIDE WITH RADIUS DROPS WHEN OVER RACKS. COORDINATE LAYOUT WITH OWNER'S IT REPRESENTATIVE. BOD: CHATSWORTH UNIVERSAL CABLE RUNWAY OR APPROVED EQUAL (CFCI)
5. SPACE PROVIDED FOR WALL MOUNTED ISP EQUIPMENT PANELS AND 110 BLOCKS. COORDINATE FINAL LOCATION WITH OTHER TRADES PRIOR TO ROUGH-IN.
6. PROVIDE 4" CONDUIT SLEEVES TO SUPPORT HORIZONTAL CABLING. COORDINATE FLOOR AND WALL PENETRATIONS FOR HORIZONTAL CABLING WITH OTHER TRADES PRIOR TO ROUGH-IN. (TYPICAL)
7. PROVIDE 4" CONDUITS TO SUPPORT COMMO ROOM CABLING. COMMO ROOM FLOORS ARE RAISED. COORDINATE FLOOR AND WALL PENETRATIONS FOR HORIZONTAL CABLING WITH OTHER TRADES PRIOR TO ROUGH-IN. (TYPICAL)
8. PROPOSED UPS RACK. CONFIRM UPS RACK BUILD-OUT WITH RBPD IT TEAM PRIOR TO THE START OF ANY WORK IN THIS ROOM.

DETAIL KEYNOTES:

1. TELECOMMUNICATION GROUND BUS BAR. (CFCI)
2. LADDER RACKING.
   BOD: CHATSWORTH CABLE RUNWAY(CFCI)
3. PROPOSED UPS RACK. CONFIRM UPS RACK BUILD-OUT WITH RBPD IT TEAM PRIOR TO THE START OF ANY WORK IN THIS ROOM.

DATA CABLE QUANTITIES

MARK	DAS COAX	CAT-6A	NOTES
TOTAL	12	873	-
NOTES:			

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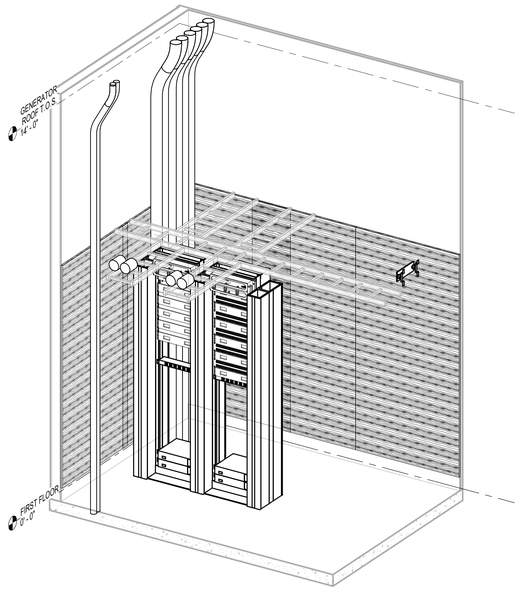
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

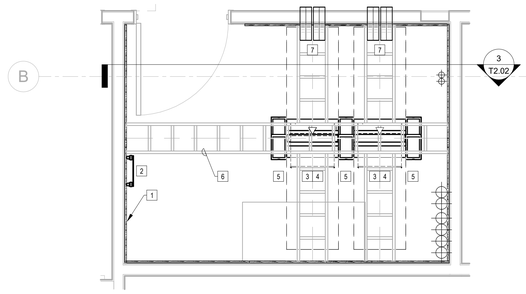
PROJECT NUMBER
1007657.00

SHEET TITLE
ENLARGED PLANS - TECHNOLOGY

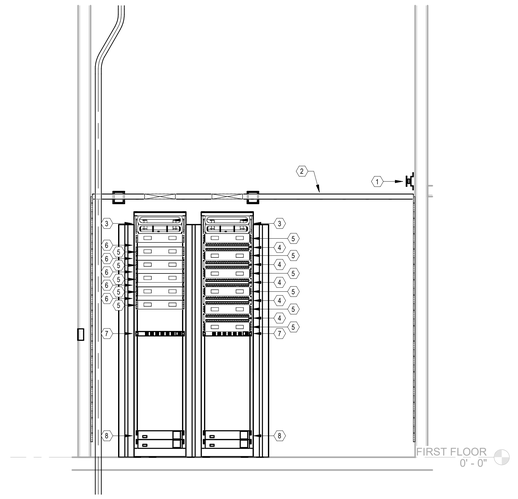
SHEET NUMBER
T2.01



5 1ST FLOOR DATA ROOM



1 1ST FLOOR PLAN - TECHNOLOGY - Callout 1
1/2" = 1'-0"



3 Section 24
1/2" = 1'-0"

KEYNOTES:

1. PROVIDE 48"X96"X3/4" MARINE GRADE PLYWOOD BACKBOARD WRAPPED AROUND ROOM. MOUNT BACKBOARDS ABOVE WALL OUTLET HEIGHT. BACKBOARDS SHALL RECEIVE TWO (2) COATS OF FIRE RETARDANT WHITE PAINT. (CFCI)
2. PROVIDE NEW 4"X12" TELECOMMUNICATIONS GROUND BUS BAR. CONNECT TO BUILDING GROUND. GROUND LADDER RACK AND 2-POST RACKS. (CFCI)
3. PROVIDE STANDARD 51U X 19" ALUMINUM FLOOR MOUNTED 2-POST RACK, BLACK FINISH. PROVIDE WITH GROUND TERMINAL BLOCK.
   BOD: CHATSWORTH UNIVERSAL OR APPROVED EQUAL. (CFCI)
4. PROVIDE RACKS WITH HORIZONTAL CABLE MANAGERS. COORDINATE WITH OWNER'S IT REPRESENTATIVE PRIOR TO PRODUCT RELEASE.
   BOD: CHATSWORTH VELOCITY OR APPROVED EQUAL.
5. PROVIDE VERTICAL DUAL SIDED MANAGER 8'-0" - COORDINATE WITH OWNER'S IT REPRESENTATIVE PRIOR TO PRODUCT RELEASE.
   BOD: CHATSWORTH VELOCITY OR APPROVED EQUAL.
6. PROVIDE NEW LADDER TRAY. MINIMUM WIDTH IS 12". PROVIDE WITH RADIUS DROPS WHEN OVER RACKS. COORDINATE LAYOUT WITH OWNER'S IT REPRESENTATIVE.
   BOD: CHATSWORTH UNIVERSAL CABLE RUNWAY OR APPROVED EQUAL (CFCI)
7. PROVIDE 4" CONDUIT SLEEVES TO SUPPORT HORIZONTAL CABLING. COORDINATE FLOOR AND WALL PENETRATIONS FOR HORIZONTAL CABLING WITH OTHER TRADES PRIOR TO ROUGH-IN. (TYPICAL)

KEYNOTES:

1. TELECOMMUNICATION GROUND BUS BAR. (CFCI)
2. LADDER RACKING. (CFCI)
3. 4RU RACK MOUNTED FIBER ENCLOSURE. (CFCI)
4. 2RU CAT-6A PATCH PANEL. (CFCI)
5. 2RU HORIZONTAL WIRE MANAGER. (CFCI)
6. PROVIDE 1RU BLANKING PLATE. SPACE IS RESERVED FOR OWNER PROVIDED NETWORK SWITCH. (TYPICAL) (OFCI)
7. 1RU RACK MOUNTED POWER DISTRIBUTION UNIT. (CFCI)
8. 5000VA RACK MOUNTED UPS. COORDINATE FINAL UPS CONFIGURATION WITH END USER PRIOR TO PRODUCT RELEASE. LOCATE AT BOTTOM OF RACK.
   BOD: APC SMART-UPS 5000VA 208V(CFCI)

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PROJECT STATUS
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DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
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SHEET TITLE
ENLARGED PLANS - TECHNOLOGY

SHEET NUMBER
T2.02

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CONDUIT SCHEDULE

MARK	RACEWAY	NOTES
A	(4) 4" CONDUITS	(1)
B	(2) 4" CONDUITS	(1)
C	(2) 2" CONDUIT	(2)
D	(4) 4" CONDUIT SLEEVES	

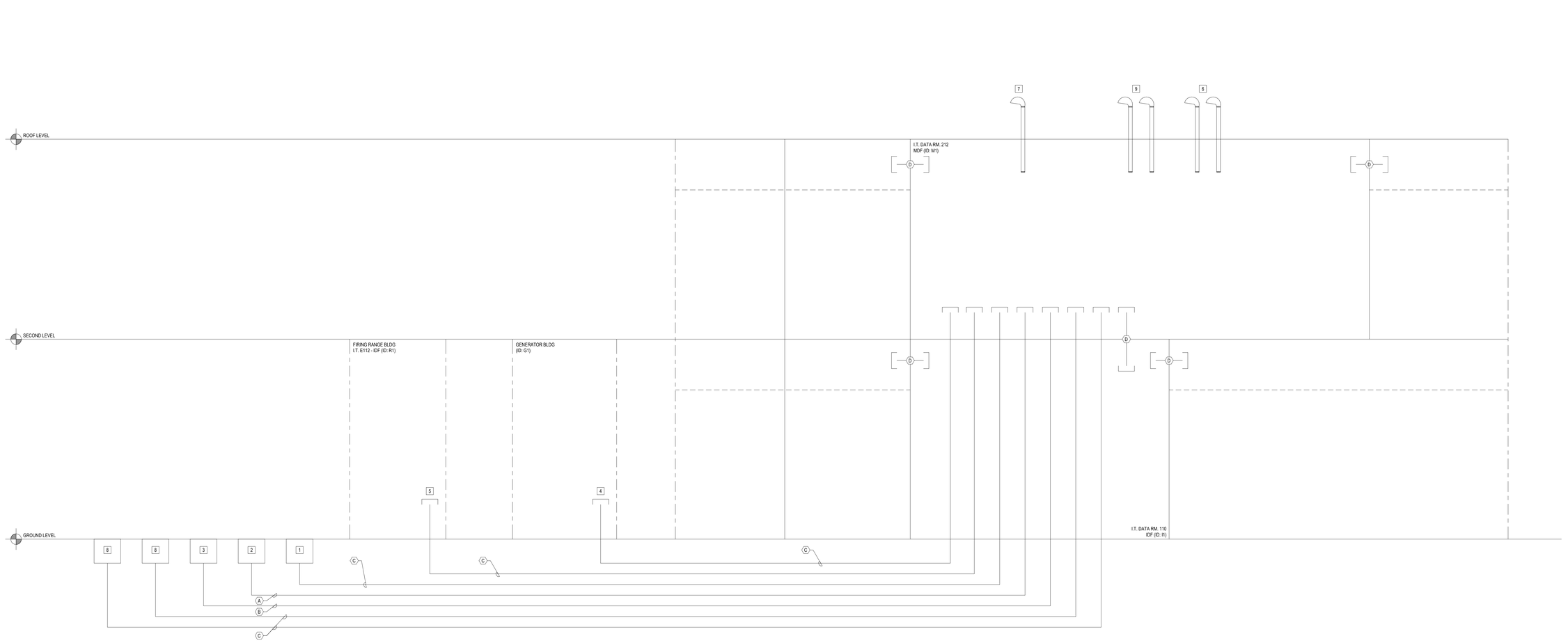
NOTES: 1. PROVIDE (2) 3-CELL 4" MAXCELL INNERDUCTS IN EACH CONDUIT.
2. PROVIDE (1) 3-CELL 2" MAXCELL INNERDUCT IN EACH CONDUIT.

GENERAL NOTES:

1. ALL CONDUIT PATHWAYS SHALL HAVE A PULLBOX INSTALLED AT INTERVALS NOT TO EXCEED 100 FEET.
2. CONDUITS SHALL NOT EXCEED 270 DEGREES IN BENDS WITHOUT HAVING A PULLBOX INSTALLED.

KEYNOTES:

1. INTERNET SERVICE PROVIDER (ISP) PULL BOX. COORDINATE FINAL LOCATION ON SITE WITH OTHER TRADES PRIOR TO THE START OF ANY UNDERGROUND WORK.
2. CROWN CASTLE PULL BOX. COORDINATE FINAL LOCATION ON SITE WITH OTHER TRADES PRIOR TO THE START OF ANY UNDERGROUND WORK.
3. PALM BEACH COUNTY PULL BOX. COORDINATE FINAL LOCATION ON SITE WITH OTHER TRADES PRIOR TO THE START OF ANY UNDERGROUND WORK.
4. PROVIDE CONDUIT AND BOXES FROM MAIN BUILDING IDF TO GENERATOR BUILDING WALL MOUNTED CABINET. COORDINATE ROUTING WITH OTHER TRADES PRIOR TO START OF ANY UNDERGROUND WORK.
5. PROVIDE CONDUITS AND BOXES FROM MAIN BUILDING MDF TO EVIDENCE/GUN RANGE BUILDING IDF ROOM. COORDINATE ROUTING WITH OTHER TRADES PRIOT TO THE START OF ANY UNDERGROUND WORK.
6. PROVIDE (2) 2" RGS CONDUITS WITH WEATHER HEADS FOR MOTOROLA RF EQUIPMENT. COORDINATE ADDITIONAL REQUIREMENT WITH ROOFING CONTRACTOR AND MOTOROLA PRIOR TO ROUGH-IN.
7. PROVIDE (1) 2" RGS CONDUIT WITH WEATHER HEAD FOR DRONE SYSTEM ANTENNA EQUIPMENT. COORDINATE ADDITIONAL REQUIREMENT WITH ROOFING CONTRACTOR AND OTHER TRADES PRIOR TO ROUGH-IN.
8. PROVIDE SPARE PULL BOX FOR FUTURE UTILITY CONNECTIONS. COORDINATE FINAL CONNECTION REQUIREMENTS WITH OWNER PRIOR TO THE START OF ANY UNDERGROUND WORK.
9. PROVIDE (2) 2" RGS CONDUIT WITH WEATHER HEAD FOR FUTURE USE. COORDINATE FINAL LOCATION WITH ARCHITECT AND ROOFING CONTRACTOR PRIOR TO ROUGH-IN.



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DRAWING HISTORY

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A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
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PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

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RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
CONDUIT RISER DIAGRAM - TECHNOLOGY

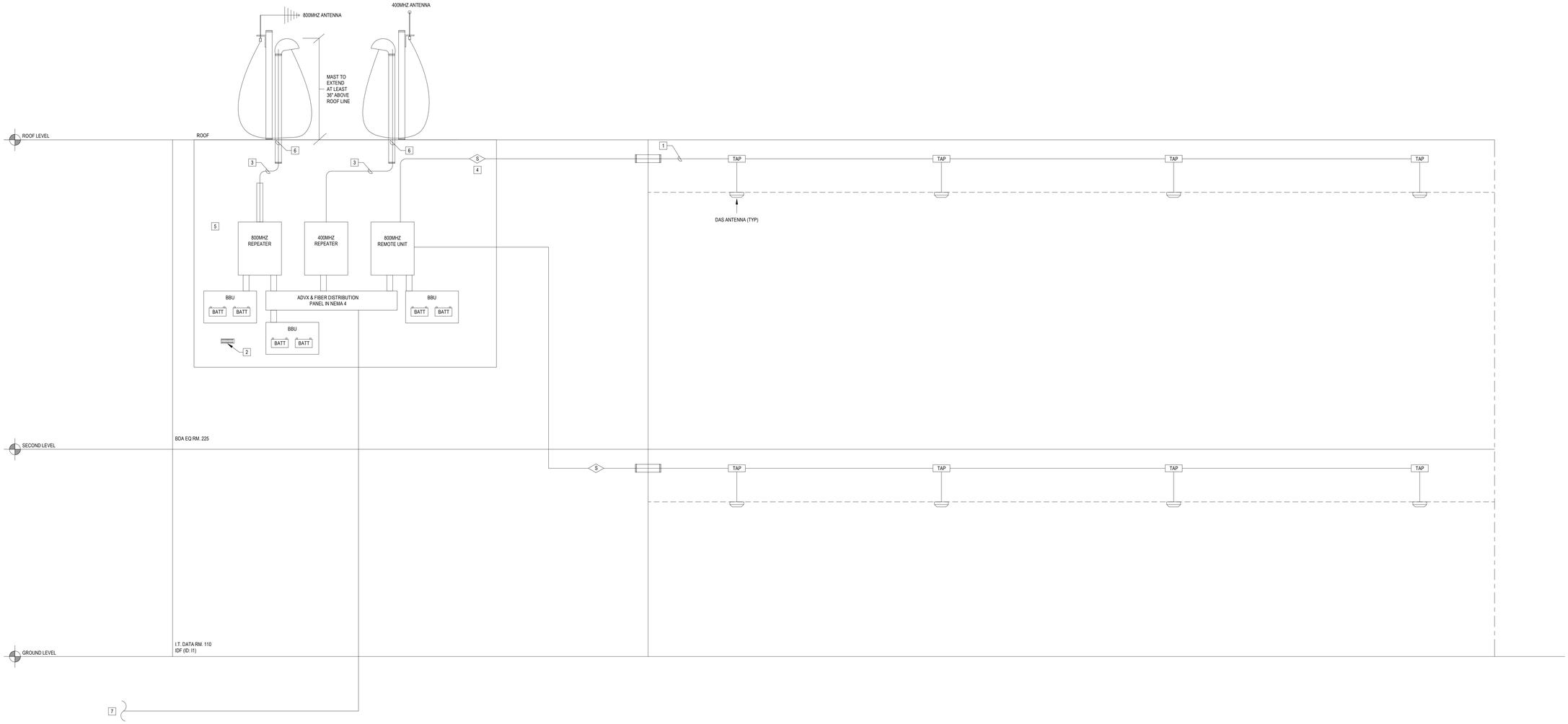
SHEET NUMBER
T3.01

GENERAL NOTES:

1. CONTRACTOR SHALL PERFORM A RADIO SIGNAL COVERAGE ANALYSIS ONCE THE SHELL OF THE BUILDING IS CONSTRUCTED THROUGH A LICENSED BDA/DAS SIGNAL TESTER. IN THE EVENT THE RADIO SIGNAL COVERAGE DOES NOT MEET THE AHJ'S SIGNAL REQUIREMENTS OR THE MINIMUM REQUIREMENTS SET FORTH BY THE NFPA (2019 EDITION) THE CONTRACTOR SHALL WORK WITH A LICENSED BDA/DAS VENDOR FOR A COMPLETE DESIGN TO BE PROVIDED AND INCORPORATED AS PART OF THE CONTRACT.
2. CONTRACTOR TO PROVIDE THE INFRASTRUCTURE REQUIRED FOR THE DAS SYSTEM. CONSTRUCTION MANAGER AND ELECTRICAL CONTRACTOR TO COORDINATE WITH THE DAS DESIGN BUILD TEAM TO IDENTIFY THE SYSTEM REQUIREMENT PRIOR THE CONSTRUCTION PHASE.
3. DAS DESIGN BUILD TEAM AND CONTRACTOR SHALL ADHERE TO ALL INDUSTRY STANDARDS, LOCAL BUILD REQUIREMENTS, NFPA, AND IFC SET REGULATIONS AS WELL AS WORK WITH THE LOCAL GOVERNMENT TO ENSURE THAT REQUIREMENTS AND MEASURES ARE SET IN PLACE.
4. DAS DESIGN BUILD TEAM SHALL BE RESPONSIBLE FOR THE CORRECT LOCATIONS AND QUANTITIES OF THE OMNI COVERAGE ANTENNAS UPON COMPREHENSIVE RADIO FREQUENCY SURVEY AND FORMAL DESIGN REQUIRED FOR THE ENTIRE PUBLIC SAFETY DAS PROJECT TO FURNISH A COMPLETELY OPERATIONAL SYSTEM PER NFPA, IFC REGULATIONS AND THE LOCAL GOVERNMENT REQUIREMENTS.
5. DAS DESIGN BUILD CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS OF THE PLANS AND SPECIFICATIONS FOR A COMPLETE AND OPERATIONAL SYSTEM.
6. DAS DESIGN BUILD CONTRACTOR TO PROVIDE AND INSTALL ALL EQUIPMENT, RACKS AND CABINETS IDENTIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS.
7. DAS DESIGN BUILD CONTRACTOR TO GROUND ALL CABLE TRAY, RACKS AND CABINETS AND BOLT ALL RACKS AND CABINETS TO THE FLOOR. SEE DETAIL SHEETS FOR ADDITIONAL REQUIREMENTS.
8. ALL ELECTRICAL POWER CONNECTION AND BUILDING GROUNDING SYSTEM BY DIVISION 26 CONTRACTOR.
9. CONTRACTOR TO PROVIDE A BID ALTERNATE FOR A COMBINED SYSTEM FOR PUBLIC SAFETY AND CELLULAR DAS SYSTEM.
10. ALL RISER CABLING TO BE PROTECTED BY ASSEMBLY OF A.) INTERNAL TWO-HOUR FIRE RATED CONDUIT (CHAMPION FLAME SHIELD PHENOLIC CONDUIT - FOR MANDATED FIRE PROTECTION AND B.) EXTERNAL EMT CONDUIT FOR MECHANICAL STRENGTH RIGIDITY.

KEYNOTES:

1. 1/2" COAX PLENUM CABLE SHALL BE ROUTED IN CONDUIT RACEWAY TO EACH LOCAL ANTENNA. CONTRACTOR TO PROVIDE 2" SLEEVE WHEN PENETRATING FLOOR/WALL AND SEAL BOTH ENDS SLEEVE AFTER CABLE INSTALLATION WITH FIRE STOPPING WHICH MEETS THE RESPECTIVE FLOOR/WALL RATING AND PATHWAY SURVIVABILITY.
2. CONTRACTOR TO PROVIDE GROUNDING FOR ALL NEW INSTALLED EQUIPMENTS.
3. OUTDOOR 1/2" FOAM FILL COAX AT A DISTANCE OF 50'-0" AND NO GREATER THAN 75'-0" FROM HEAD-END TO DONOR ANTENNA. IF THE DISTANCE EXCEED THE REQUIREMENTS CONTRACTOR SHALL SUPPLY TEST RESULTS WITH CALCULATION OF OVERALL CABLE LOSS (DB), CABLE LENGTH, VELOCITY PERCENTAGE, DISTANCE TO FAULT (DTF) AND RETURN LOSS (RL). DONOR ANTENNA CABLE NEED TO BE ROUTED IN 2" EMT CONDUIT TO THE ROOF.
4. ALL TAPS AND SPLITTERS SHALL BE INSTALLED INSIDE JUNCTION BOX 12" X 12" X 6" MOUNTED TO BUILDING STRUCTURE WITH HINGED COVER (TYPICAL).
5. PROVIDE PLYWOOD BACKBOARD, BACKBOARDS SHALL BE 3/4" THICK AC GRADE PLYWOOD. PRIME WITH TWO COATS FIRE RETARDANT PRIMER, SANDING SMOOTH AFTER EACH COAT. FINISH WITH TWO COATS FIRE RETARDANT PAINT, COLOR LIGHT GRAY.
6. CONTRACTOR TO INSTALL ROOF PENETRATION TO ROUTE THE NEW DONOR COAX CABLE. CONTRACTOR SHALL CONFIRM THE EXACT OUTDOOR PENETRATION AND DONOR ANTENNA LOCATIONS BEFORE INSTALLATION WITH THE DESIGN TEAM AND SLPS PROJECT MANAGER.
7. PROVIDE (1) 2" CONDUIT FROM FROM MAIN BUILDING BDA HEAD END SYSTEM TO EVIDENCE FIRING RANGE BDA REAPEATER. REFER TO SHEET T3.02E FOR ADDITIONAL INFORMATION.



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RIVIERA BEACH POLICE DEPARTMENT

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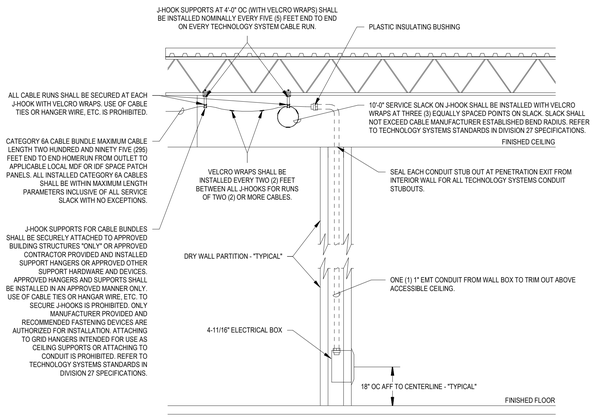
1007657.00

SHEET TITLE
BDA RISER DIAGRAM - TECHNOLOGY

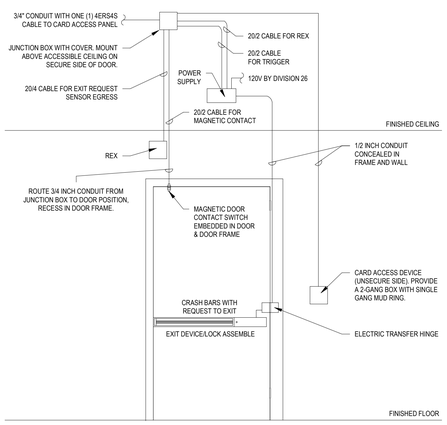
SHEET NUMBER
T3.02



7 TYPICAL FLUSH MOUNTED OUTLET
NTS

NOTES:

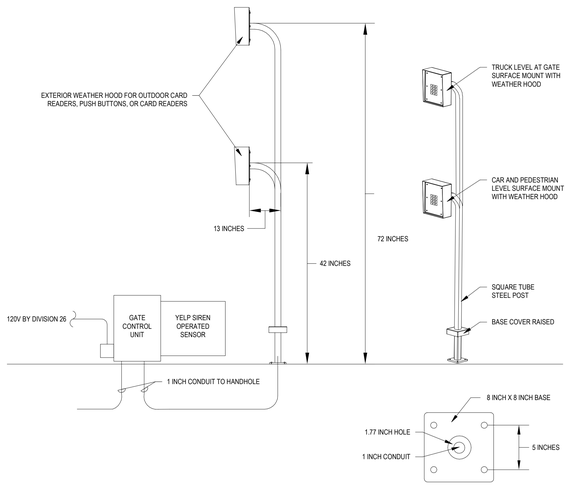
1. REFER TO DIVISION 26, DIVISION 27, AND DIVISION 28 SPECS FOR ANY COMPONENTS NEEDED FOR FULLY WORKING SYSTEM.



8 TYPICAL CARD ACCESS FOR SINGLE DOOR - CRASH BAR
NTS

NOTES:

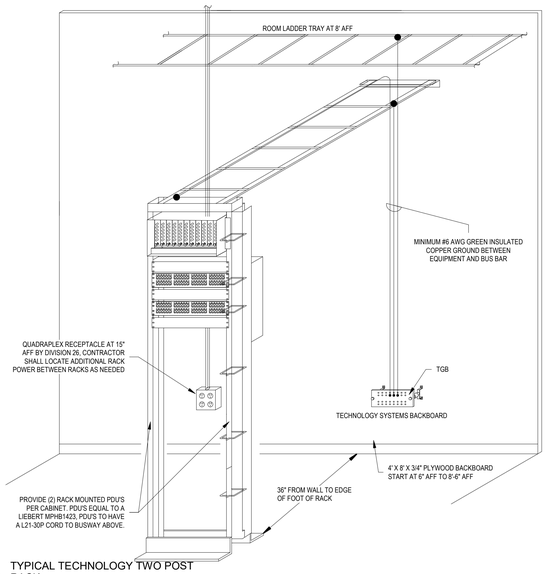
1. REFER TO SITE PLAN FOR ENTRY PEDESTAL LOCATIONS.
2. REFER TO POWER AND ARCHITECTURAL PLANS AND SPECS FOR COORDINATION AS NEEDED.
3. REFER TO DIVISION 26, DIVISION 27, AND DIVISION 28 SPECS FOR ANY COMPONENTS NEEDED FOR FULLY WORKING SYSTEM.



9 TYPICAL CARD ACCESS FOR ENTRY PEDESTAL
NTS

NOTES:

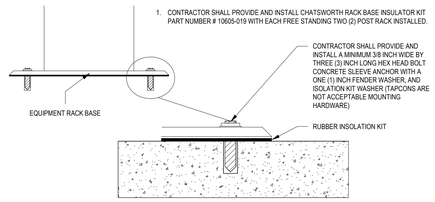
1. TIGHT METAL TO METAL CONTACT BETWEEN TRAY SEGMENTS, SUPPORTS AND RACK.
2. ANCHOR LADDER TRAY WALL BRACKETS WITH TAPCONS OR OTHER APPROVED FASTENERS.
3. DRILL A NEW HOLE IN RACKS FOR ATTACHING GROUND KIT. DO NOT USE EXISTING MOUNTING HOLES.
4. BOLT THROUGH FASTENER.



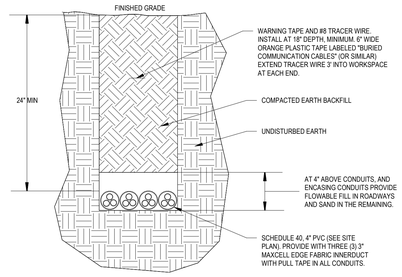
4 TYPICAL TECHNOLOGY TWO POST RACK
NTS

NOTES:

1. CONTRACTOR SHALL PROVIDE AND INSTALL CHATSWORTH RACK BASE INSULATOR KIT PART NUMBER # 10605-019 WITH EACH FREE STANDING TWO (2) POST RACK INSTALLED.



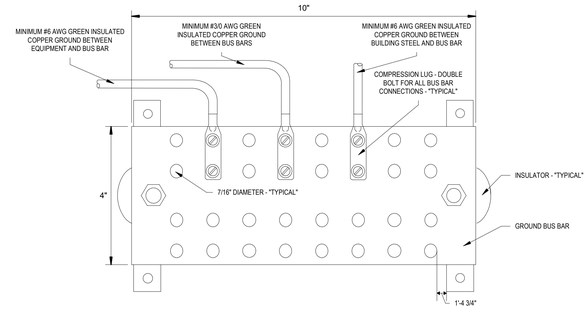
5 TYPICAL TWO POST RACK FLOOR MOUNTING
NTS



6 TYPICAL CONDUIT TRENCHING/BORING
NTS

NOTES:

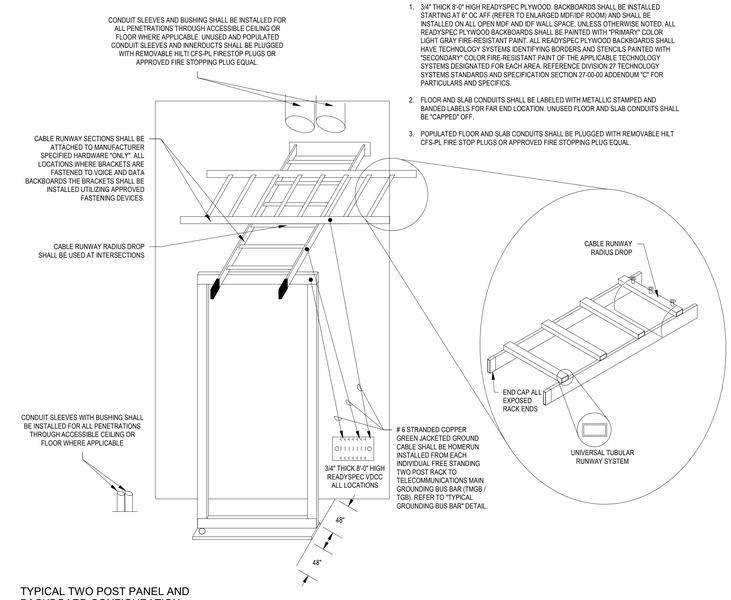
1. ALL CABLING TYPES SHALL HAVE WRITTEN LABELS DENOTING FAR END TERMINATION POINT.
2. REQUIRED SIZE FOR CABLING TO BE CALCULATED BY DESIGN.



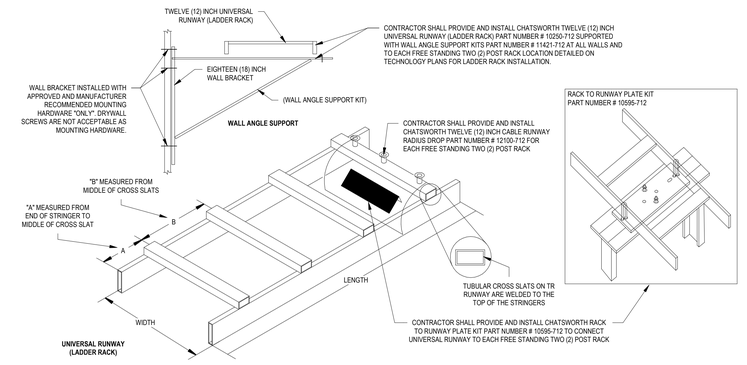
1 TYPICAL GROUNDING BUS BAR
NTS

NOTES:

1. 3/4" THICK 8'-0" HIGH READYSPEC PLYWOOD. BACKBOARDS SHALL BE INSTALLED STARTING AT 6" OC AFF (REFER TO ENLARGED MDF/IDF ROOM) AND SHALL BE INSTALLED ON ALL OPEN MDF AND IDF WALL SPACE, UNLESS OTHERWISE NOTED. ALL READYSPEC PLYWOOD BACKBOARDS SHALL BE PAINTED WITH "PRIMARY" COLOR LIGHT GRAY FIRE-RESISTANT PAINT. ALL READYSPEC PLYWOOD BACKBOARDS SHALL HAVE TECHNOLOGY SYSTEMS IDENTIFYING BORDERS AND STENCILS PAINTED WITH "SECONDARY" COLOR FIRE-RESISTANT PAINT OF THE APPLICABLE TECHNOLOGY SYSTEMS DESIGNATED FOR EACH AREA. REFERENCE DIVISION 27 TECHNOLOGY SYSTEMS STANDARDS AND SPECIFICATION SECTION 27-00-00 ADDENDUM "C" FOR PARTICULARS AND SPECIFICS.
2. FLOOR AND SLAB CONDUITS SHALL BE LABELED WITH METALLIC STAMPED AND BANDED LABELS FOR FAR END LOCATION. UNUSED FLOOR AND SLAB CONDUITS SHALL BE "CAPPED" OFF.
3. POPULATED FLOOR AND SLAB CONDUITS SHALL BE PLUGGED WITH REMOVABLE HILT CFS-PL FIRE STOP PLUGS OR APPROVED FIRE STOPPING PLUG EQUAL.



2 TYPICAL TWO POST PANEL AND BACKBOARD CONFIGURATION
NTS



3 TYPICAL LADDER RACK
NTS

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DATE OF ISSUE

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PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION

2121 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER

1007657.00

SHEET TITLE

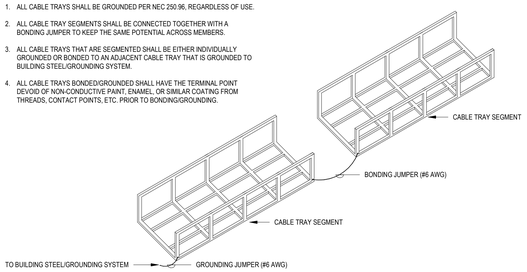
DETAILS - TECHNOLOGY

SHEET NUMBER

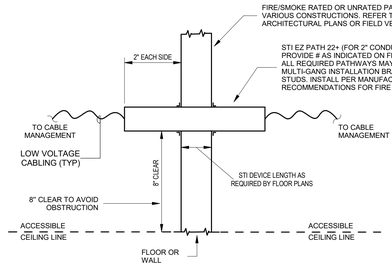
T4.01

NOTES:

1. ALL CABLE TRAYS SHALL BE GROUNDED PER NEC 250.96, REGARDLESS OF USE.
2. ALL CABLE TRAY SEGMENTS SHALL BE CONNECTED TOGETHER WITH A BONDING JUMPER TO KEEP THE SAME POTENTIAL ACROSS MEMBERS.
3. ALL CABLE TRAYS THAT ARE SEGMENTED SHALL BE EITHER INDIVIDUALLY GROUNDED OR BONDED TO AN ADJACENT CABLE TRAY THAT IS GROUNDED TO BUILDING STEEL/GROUNDING SYSTEM.
4. ALL CABLE TRAYS BONDED/GROUNDED SHALL HAVE THE TERMINAL POINT DEVOID OF NON-CONDUCTIVE PAINT, ENAMEL, OR SIMILAR COATING FROM THREADS, CONTACT POINTS, ETC. PRIOR TO BONDING/GROUNDING.

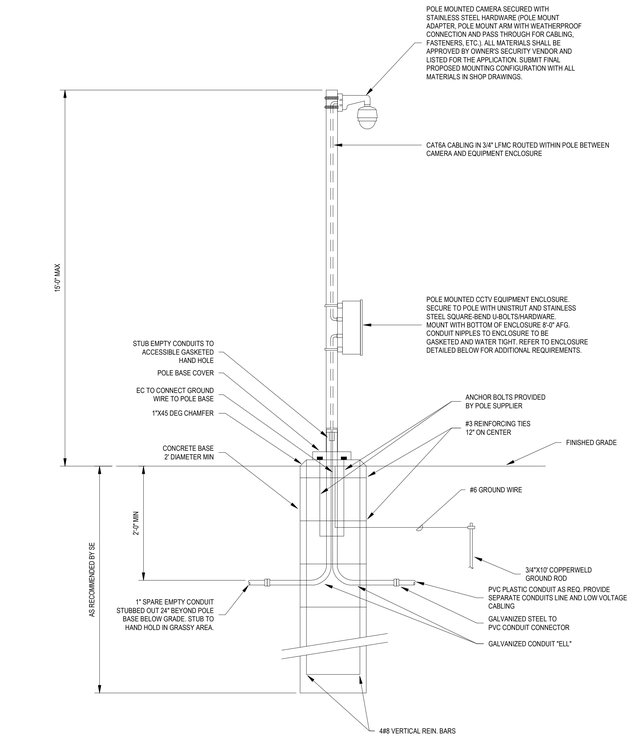


7 TYPICAL GROUNDING BUS BAR
NTS

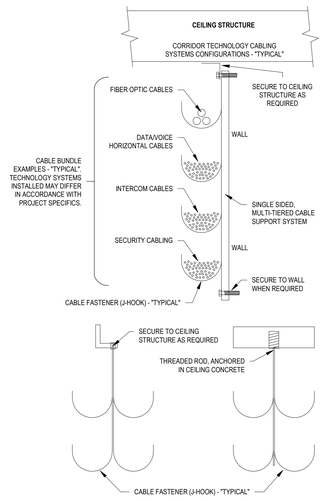


NOTE:
PATHWAYS SHALL BE PROVIDED WHERE PENETRATING CEILINGS (RATED OR NOT) FOR EXPOSED CABLE ROUTING TO LADDER TRAY IN MDF/IDF ROOMS. PROVIDE GRID SYSTEMS MOUNT AS REQUIRED.

3 SYSTEMS SLEEVE PENETRATION DETAIL (EZ PATH)
NTS



1 CAMERA POLE DETAIL
NTS



NOTES:

1. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE AND INSTALL THEIR OWN SEPARATE TRADE SPECIFIC CABLE SUPPORT SYSTEMS FOR ALL INSTALLATIONS. THIS REQUIREMENT IS APPLICABLE FOR MAIN CABLE BUNDLES AS WELL AS INDIVIDUAL STATION AND FIELD DEVICE CABLE RUNS.
2. THE CONTRACTOR SHALL PROVIDE CABLE FASTENERS AND HARDWARE AS SPECIFIED AND REQUIRED BY THE J-HOOK MANUFACTURER AS WELL AS ALL REQUIRED AND APPROVED COMPONENTS.
3. ALL NEWLY INSTALLED J-HOOK SUPPORT SYSTEMS SHALL BE APPROPRIATELY SIZED TO ACCOMMODATE A FORTY (40) PERCENT INCREASE IN GROWTH CAPACITY UPON COMPLETION OF EACH NEW INSTALLATION. DURING NEW CABLING INSTALLATIONS WHERE THE MANUFACTURER'S CABLE FILL RATIO REQUIREMENTS ARE EXCEEDED THE CONTRACTOR SHALL BE REQUIRED TO INSTALL ADDITIONAL J-HOOK FASTENERS TO ACCOMMODATE THE OVERFILL CABLES.
4. FOR NEW CONSTRUCTION CABLE SUPPORT SYSTEMS ALL SUPPORTS FOR BOTH THE MAIN RUNS AND THE STATION AND FIELD DEVICE FEEDS SHALL BE MOUNTED AT THE HIGHEST POINT AVAILABLE ABOVE CEILING. MOUNT AT LEVEL OF BUILDING STEEL, AND IF FEASIBLE, ABOVE ALL OTHER TRADE WIRING, DUCTING, PIPING, CONDUITS, AND ALL MECHANICAL AND ELECTRICAL EQUIPMENT. FOR EXISTING RENOVATION CONSTRUCTION CABLE SUPPORT SYSTEMS LOCATIONS SHALL AS MUCH AS POSSIBLE ROUTINELY COMPLY AS REQUIRED FOR NEW CONSTRUCTION INSTALLATIONS. ALL INSTALLED PATHWAYS SHALL BE INSPECTED AND ALL ISSUES ADDRESSED BY THE CONTRACTOR TO THE SATISFACTION OF THE CONSTRUCTION PROJECT MANAGERS AND OWNER REPRESENTATIVE.
5. IF J-HOOKS CAN NOT BE MOUNTED TO STRUCTURAL METAL/WOOD STUDS OR DRYWALL THEN J-HOOKS MAY ALSO BE INSTALLED USING CONTRACTOR PROVIDED AND INSTALLED CEILING GRID WIRE PAINTED WITH A TWELVE (12) INCH SWATCH OF BLUE PAINT INDICATING THE HANGERS ARE INTENDED ONLY FOR THE INSTALLATION OF CABLE RUNS. ALL GRID HANGERS SHALL BE FASTENED ON CEILING FAR END TO BUILDING STEEL OR TO APPROVED ANCHORS AND AT THE NEAR END OF THE CEILING GRID. IT IS NOT PERMISSIBLE IN ANY CIRCUMSTANCE FOR ANY CONTRACTOR TO USE ANY PRE-EXISTING GRID WIRE, BRACKETS, HANGERS, THREADED ROD OR OTHER MEANS INSTALLED BY OTHER CONTRACTORS.
6. J-HOOK SUPPORT SYSTEMS MAY BE INSTALLED AS DOUBLE SIDED MULTIPLE HOOK HANGER ASSEMBLIES WITH THE FOLLOWING PROVISIONS.
   A. ALL CONTRACTORS SHALL MAINTAIN MANUFACTURER APPROVED MINIMUM CABLE SEPARATION FOR ALL DIFFERING CABLES INSTALLED.
   B. ALL CONTRACTORS SHALL PROVIDE AND INSTALL ADEQUATE AND APPROVED AND SECURELY FASTENED ASSEMBLY BRACKETS.
   C. ALL J-HOOK AND OTHER APPROVED ASSEMBLIES SHALL BE SECURELY FASTENED TO BUILDING STRUCTURE UTILIZING ONLY APPROVED STRUCTURAL SURFACES.
7. ALL CABLE BUNDLES AND ALL CABLE RUNS SHALL BE SECURED AT EACH J-HOOK WITH VELCRO WRAPS AND SHALL BE SECURED BETWEEN EACH J-HOOK WITH VELCRO WRAPS EVERY TWO (2) FEET THE ENTIRE LENGTH OF EACH CABLE BUNDLE AND OR CABLE RUN.
8. ALL CABLE RUNS SHALL BE SECURED AT THE FIELD STATION OR FIELD DEVICE TERMINATING END WITH SPECIFIED LENGTHS OF SERVICE SLACK WHICH SHALL BE NEATLY DRESSED AND BUNDLED WITH VELCRO WRAPS AT THREE (3) EQUAL POINTS ON THE SERVICE SLACK COIL. THE SERVICE SLACK COIL SHALL BE SECURED ON A J-HOOK SUPPORT WITH VELCRO WRAPS.

9 TYPICAL ABOVE CEILING SUPPORT SYSTEM
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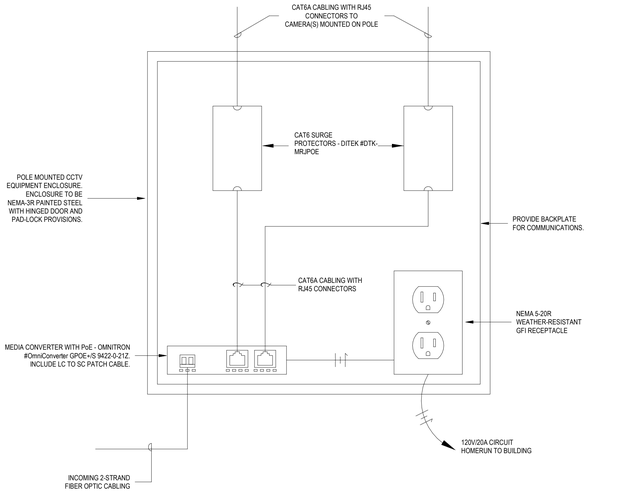
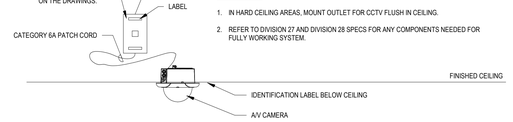


2 SYSTEMS CABLING SLEEVE INSTALLATION (SPEED SLEEVE)
NTS



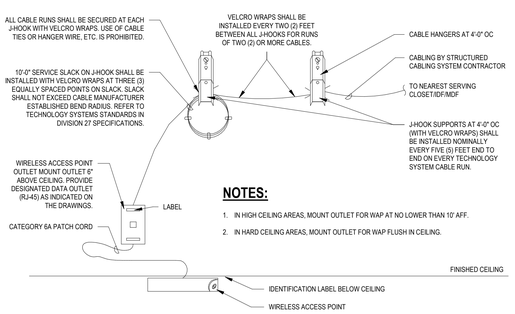
NOTES:

1. IN HARD CEILING AREAS, MOUNT OUTLET FOR CCTV FLUSH IN CEILING.
2. REFER TO DIVISION 27 AND DIVISION 28 SPECS FOR ANY COMPONENTS NEEDED FOR FULLY WORKING SYSTEM.

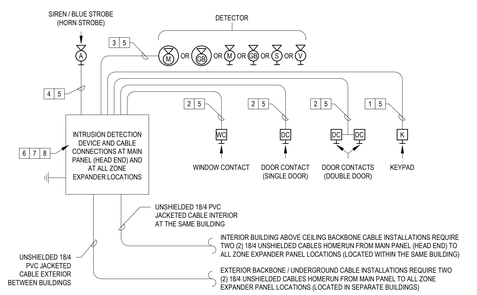
5 TYPICAL CCTV CAMERA - INTERIOR - CEILING MOUNTED
NTS

NOTES:

1. IN HIGH CEILING AREAS, MOUNT OUTLET FOR WAP AT NO LOWER THAN 10' AFF.
2. IN HARD CEILING AREAS, MOUNT OUTLET FOR WAP FLUSH IN CEILING.



4 TYPICAL WIRELESS ACCESS POINT CEILING MOUNTED
NTS



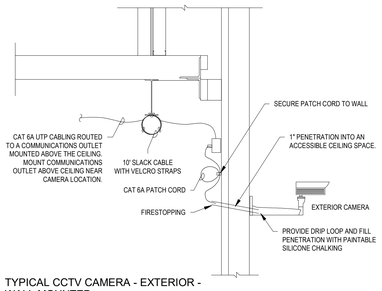
KEYNOTES [XX]:

1. 22/4 UNSHIELDED CABLE FOR KEYPAD FIELD DEVICE LOCATIONS WITH A TEN (10) FOOT SERVICE SLACK AT EACH CABLE END.
2. 22/2 UNSHIELDED CABLE FOR DOOR CONTACT FIELD DEVICE LOCATIONS WITH A TEN (10) FOOT SERVICE SLACK AT EACH CABLE END.
3. 22/4 UNSHIELDED CABLE FOR MOTION SENSOR FIELD DEVICE LOCATIONS WITH A TEN (10) FOOT SERVICE SLACK AT EACH CABLE END.
4. 18/2 UNSHIELDED CABLE FOR STROBE AND SIREN FIELD DEVICE LOCATIONS WITH A TEN (10) FOOT SERVICE SLACK AT EACH CABLE END.
5. ALL FIELD DEVICE CABLE ENDS SHALL BE PROPERLY LABELED AND TERMINATED WITHIN SIX (6) INCHES OF POINT OF TERMINATION AT EACH DEVICE OR WHERE DEVICE CABLING IS INSTALLED IN A STUB OUT SHALL BE LABELED WITHIN SIX (6) INCHES OF ENTRANCE INTO STUB OUT AT ALL LOCATIONS.
6. AT THE MAIN INTRUSION DETECTION PANEL (HEAD END) AND AT ALL ZONE EXPANDER PANELS ALL FIELD DEVICE CABLE ENDS SHALL BE PROPERLY LABELED AND TERMINATED AND DRESSED IN EACH PANEL. ALL CABLES SHALL BE INSTALLED AT EACH PANEL THROUGH AN APPROVED COUPLER DEVICE TO THE INTERIOR OF EACH PANEL.
7. THE MAIN INTRUSION DETECTION PANEL (HEAD END) AND ALL ZONE EXPANDER PANELS SHALL BE INSTALLED WITH A PROPERLY LABELED ZONE CARD INDICATING ALL DEVICES CONNECTED. ALL NEW PANEL INSTALLATIONS SHALL BE INSTALLED WITH TWO (2) SPARE PORTS FOR EXPANSION PURPOSES AT COMPLETION OF ALL NEW CONSTRUCTION AND RENOVATION PROJECTS.
8. THE MAIN INTRUSION DETECTION PANEL (HEAD END) AND EACH ZONE EXPANDER PANEL SHALL BE PROPERLY GROUNDED AT THE INTERIOR OF EACH PANEL. CONNECTION SHALL BE METAL TO METAL UTILIZING A PROPERLY SIZED GROUND LUG BOLTED (NOT SCREWED) TO THE PANEL CHASSIS WHICH SHALL BE ATTACHED TO A NUMBER SIX (6) STRANDED COPPER, GREEN JACKETED GROUND CABLE HOMERUN INSTALLED FROM THE SPECIFICATIONS FOR GROUND CABLE INSTALLATIONS. THIS SHALL BE ACCOMPLISHED AT COMPLETION OF ALL PROJECT PANEL INSTALLATIONS. EACH GROUND CABLE SHALL BE INSTALLED AT EACH PANEL THROUGH AN APPROVED COUPLER DEVICE TO THE INTERIOR OF EACH PANEL AND EACH CABLE SHALL BE SUPPORTED BY THE CONTRACTOR TO THE PANEL FROM THE GROUNDING BUS BAR BY DIVISION 27.
9. ALL LOW VOLTAGE CABLE SHOULD BE ROUTED TO THE MDF/IDF ROOMS IN A SECURED PATHWAY CABLE TRAY OR CONDUITS.

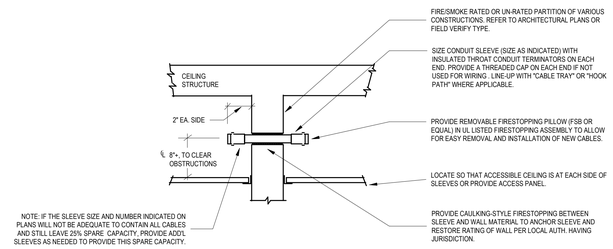
10 TYPICAL INTRUSION DETECTION SYSTEM CONFIG
NTS

NOTES:

1. WALL ELEVATION SHOWN IS FOR REFERENCE ONLY.
2. REFER TO ARCHITECTURAL SHEET WALL ELEVATIONS AND STRUCTURAL DRAWING FOR SPECIFIC CONSTRUCTION REQUIREMENTS.



6 TYPICAL CCTV CAMERA - EXTERIOR - WALL MOUNTED
NTS



GENERAL NOTES:
A. PROVIDE ONE 2" SPARE CONDUIT SLEEVE THROUGH ALL FULL HEIGHT PARTITIONS FOR FUTURE USE. LABEL AS SPARE FOR OWNER'S USE ONLY. REFER TO ARCHITECTURAL PLANS FOR FULL HEIGHT PARTITION LOCATIONS.
B. USE AT ALL "OPEN" TYPE CABLING PENETRATIONS THROUGH WALLS, FLOORS, ETC.

2 SYSTEMS CABLING SLEEVE INSTALLATION (SPEED SLEEVE)
NTS

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DATE STAMP: 10/23/2025 12:00:31 PM

CLIENT

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FL REG. NO. PE93142

DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

CMTA
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PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL
33404

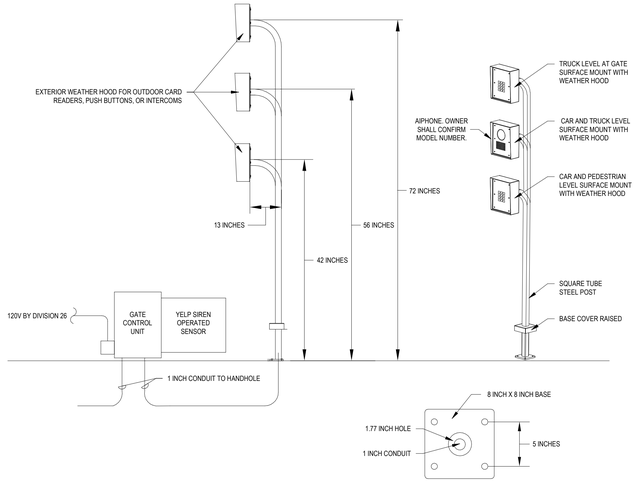
PROJECT NUMBER
1007657.00

SHEET TITLE
DETAILS - TECHNOLOGY

SHEET NUMBER
T4.02

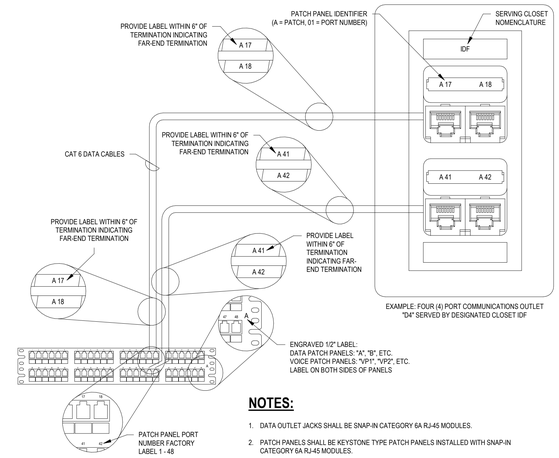
NOTES:

1. REFER TO SITE PLAN FOR ENTRY PEDESTAL LOCATIONS.
2. REFER TO POWER AND ARCHITECTURAL PLANS AND SPECS FOR COORDINATION AS NEEDED.
3. REFER TO DIVISION 26, DIVISION 27, AND DIVISION 28 SPECS FOR ANY COMPONENTS NEEDED FOR FULLY WORKING SYSTEM.



FRONT VIEW **SIDE VIEW** **FOOTPRINT**

4 TYPICAL CARD ACCESS FOR ENTRY PEDESTAL
NTS



NOTES:

1. DATA OUTLET JACKS SHALL BE SNAP-IN CATEGORY 6A RJ-45 MODULES.
2. PATCH PANELS SHALL BE KEYSTONE TYPE PATCH PANELS INSTALLED WITH SNAP-IN CATEGORY 6A RJ-45 MODULES.

1 TYPICAL OUTLET AND PATCH PANEL WIRING/LABELING
NTS

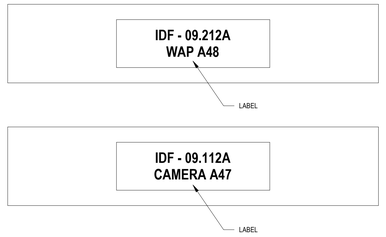
NOTES:

1. REFER TO POWER PLANS FOR CIRCUIT AND ROUTING REQUIREMENTS, ALONGSIDE ANY POWER RECEPTACLES AND THE TYPE OF RECEPTACLE BEING USED.

6 TYPICAL FLAT PANEL DISPLAY - WALL MOUNTED
NTS

NOTES:

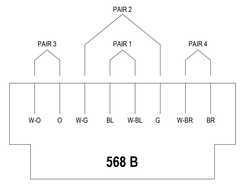
1. INTERIOR CEILING LABEL SPECIFICATIONS FOR WIRELESS ACCESS POINT AND VIDEO SURVEILLANCE CAMERA CATEGORY 6A DATA CABLE AND RJ-45 MODULAR JACK INSTALLATIONS INSTALLED ABOVE CEILING.
2. IDENTIFICATION LABELS TO BE PLACED BELOW FINISHED CEILING ON THE CEILING GRID AT THE EXACT ABOVE CEILING LOCATION OF THESE TERMINATED CATEGORY 6A DATA CABLE AND RJ-45 MODULAR JACK LOCATIONS



2 TYPICAL ABOVE CEILING LABELS
NTS

NOTES:

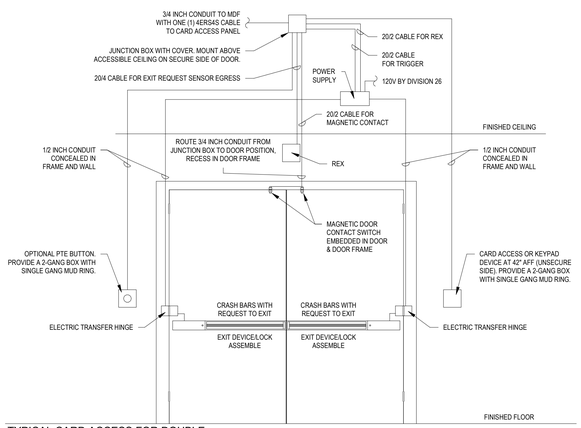
1. RJ45 MODULAR JACK AND PATCH PANEL PORT TERMINATION METHOD 568 "B" ONLY ALL CONFIGURATIONS UNLESS OTHERWISE NOTED.
2. EIGHT (8) - POSITION JACK PIN / PAIR ASSIGNMENTS EIA / TIA - 568B.
3. ALL FOUR (4) PAIR CATEGORY 6A COPPER DATA CABLES SHALL BE TERMINATED IN THIS CONFIGURATION "ONLY".



3 TYPICAL CATEGORY 6A WIRING CONFIGURATION
NTS

NOTES:

1. REFER TO DIVISION 26, DIVISION 27, AND DIVISION 28 SPECS FOR ANY COMPONENTS NEEDED FOR FULLY WORKING SYSTEM.



5 TYPICAL CARD ACCESS FOR DOUBLE DOOR - CRASH BAR
NTS

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CLIENT

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DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
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CONSULTANT

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PROJECT STATUS
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DATE OF ISSUE
10/14/2025

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RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

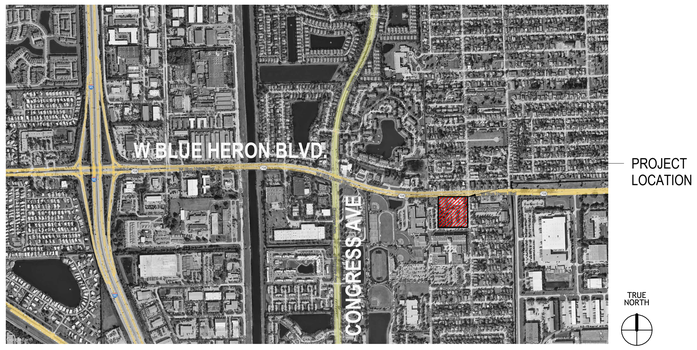
PROJECT NUMBER
1007657.00

SHEET TITLE
DETAILS - TECHNOLOGY

SHEET NUMBER
T4.03

RIVIERA BEACH POLICE DEPARTMENT

2125 AVENUE S.
RIVIERA BEACH, FL 33404





10/14/2025
90% CONSTRUCTION DOCUMENTS/PERMIT SET

VOL II - EVIDENCE AND FIRING RANGE

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PROJECT NUMBER
1007657.00

SHEET TITLE
COVER SHEET

SHEET NUMBER
G0.00E

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DATE STAMP: 10/16/2025 3:07:56 PM

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EQUIPMENT	Q1.11E	FIRING RANGE EQUIPMENT DRAWINGS	E	10/14/2025	90% Construction Documents/Permit Set
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EQUIPMENT	Q1.43E	FIRING RANGE EQUIPMENT DRAWINGS	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL					
STRUCTURAL	S1.0E	STRUCTURAL NOTES & SCHEDULES	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S1.1E	SCHEDULES	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S1.2E	BUILDING ISOMETRICS	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S1.3E	BUILDING ISOMETRICS	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S2.0E	FOUNDATION PLAN	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S2.1E	MEZZANINE PLAN AND FIRING RANGE ROOF FRAMING PLAN	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S2.2E	EVIDENCE STORAGE HIGH ROOF FRAMING PLAN	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S2.3E	PANEL LAYOUT PLAN	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S3.0E	BUILDING SECTIONS	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S3.1E	BUILDING SECTIONS	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S3.2E	BUILDING SECTIONS	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S4.0E	STRUCTURAL DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S4.1E	FLOOR FRAMING DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S4.2E	ROOF FRAMING DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S5.0E	PANEL DETAILS	E	10/14/2025	90% Construction Documents/Permit Set
STRUCTURAL	S5.1E	PANEL DETAILS	E	10/14/2025	90% Construction Documents/Permit Set

VOL II SHEET INDEX - EVIDENCE & FIRING RANGE

Discipline	Sheet №	Sheet Name	Current Issue	Current Issue Date	Current Issue Description
FIRE PROTECTION					
FIRE PROTECTION	F0.01E	GENERAL NOTES - FIRE PROTECTION	E	10/14/2025	90% Construction Documents/Permit Set
FIRE PROTECTION	F0.10E	SITE PLAN - FIRE PROTECTION	E	10/14/2025	90% Construction Documents/Permit Set
FIRE PROTECTION	F1.01E	FLOOR PLAN - EVIDENCE/FIRING RANGE - FIRE PROTECTION	E	10/14/2025	90% Construction Documents/Permit Set
FIRE PROTECTION	F1.02E	FLOOR PLAN - MEZZANINE - FIRE PROTECTION	E	10/14/2025	90% Construction Documents/Permit Set
FIRE PROTECTION	F5.01E	DETAILS - FIRE PROTECTION	E	10/14/2025	90% Construction Documents/Permit Set
FIRE PROTECTION	F5.02E	DETAILS - FIRE PROTECTION	E	10/14/2025	90% Construction Documents/Permit Set
FIRE PROTECTION	F6.01E	SCHEDULES - FIRE PROTECTION	E	10/14/2025	90% Construction Documents/Permit Set
PLUMBING					
PLUMBING	P0.01E	GENERAL NOTES, ABBREVIATIONS & LEGEND - PLUMBING	E	10/14/2025	90% Construction Documents/Permit Set
PLUMBING	P1.00E	FOUNDATION PLAN - EVIDENCE/FIRING RANGE - PLUMBING	E	10/14/2025	90% Construction Documents/Permit Set
PLUMBING	P1.01E	FLOOR PLAN - EVIDENCE/FIRING RANGE - WASTE - PLUMBING	E	10/14/2025	90% Construction Documents/Permit Set
PLUMBING	P1.10E	ROOF PLAN - EVIDENCE/FIRING RANGE - PLUMBING	E	10/14/2025	90% Construction Documents/Permit Set
PLUMBING	P2.01E	FLOOR PLAN - EVIDENCE/FIRING RANGE - DOMESTIC - PLUMBING	E	10/14/2025	90% Construction Documents/Permit Set
PLUMBING	P4.01E	WASTE AND VENT RISER - PLUMBING	E	10/14/2025	90% Construction Documents/Permit Set
PLUMBING	P4.02E	DOMESTIC WATER & COMPRESSED AIR RISER - PLUMBING	E	10/14/2025	90% Construction Documents/Permit Set
PLUMBING	P5.01E	DETAILS - PLUMBING	E	10/14/2025	90% Construction Documents/Permit Set
PLUMBING	P5.02E	DETAILS - PLUMBING	E	10/14/2025	90% Construction Documents/Permit Set
PLUMBING	P6.01E	SCHEDULES - PLUMBING	E	10/14/2025	90% Construction Documents/Permit Set
MECHANICAL					
MECHANICAL	M0.01E	GENERAL NOTES - HVAC	E	10/14/2025	90% Construction Documents/Permit Set
MECHANICAL	M1.01E	FLOOR PLAN - EVIDENCE/FIRING RANGE - HVAC	E	10/14/2025	90% Construction Documents/Permit Set
MECHANICAL	M1.02E	ROOF PLAN - EVIDENCE/FIRING RANGE - HVAC	E	10/14/2025	90% Construction Documents/Permit Set
MECHANICAL	M5.01E	DETAILS - HVAC	E	10/14/2025	90% Construction Documents/Permit Set
MECHANICAL	M6.01E	SCHEDULES - HVAC	E	10/14/2025	90% Construction Documents/Permit Set
MECHANICAL	M7.01E	CONTROLS - HVAC	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL					
ELECTRICAL	E0.01E	GENERAL NOTES - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E0.02E	FIXTURES SCHEDULE - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E1.01E	FLOOR PLAN - EVIDENCE/FIRING RANGE - LIGHTING	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E1.02E	PHOTOMETRICS - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E2.01E	FLOOR PLAN - EVIDENCE/FIRING RANGE - POWER	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E3.01E	FLOOR PLAN - EVIDENCE/FIRING RANGE - FIRE ALARM	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E4.01E	ENLARGED PLANS - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E4.02E	ROOF PLAN - EVIDENCE/FIRING RANGE - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E4.03E	MEZZANINE PLAN - EVIDENCE/FIRING RANGE - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E5.01E	RISER DIAGRAM - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E5.02E	FIRE ALARM RISER DIAGRAM - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E6.01E	DETAILS - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E6.02E	DETAILS - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E6.03E	DETAILS - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E7.01E	SCHEDULES - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E7.02E	SCHEDULES - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E8.01E	EMERGENCY PHOTOMETRICS - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
ELECTRICAL	E8.02E	CONTROLS - ELECTRICAL	E	10/14/2025	90% Construction Documents/Permit Set
TECHNOLOGY					
TECHNOLOGY	T0.01E	GENERAL NOTES - TECHNOLOGY	E	10/14/2025	90% Construction Documents/Permit Set
TECHNOLOGY	T1.01E	FLOOR PLAN - EVIDENCE/FIRING RANGE - TECHNOLOGY	E	10/14/2025	90% Construction Documents/Permit Set
TECHNOLOGY	T2.01E	ENLARGED PLANS - TECHNOLOGY	E	10/14/2025	90% Construction Documents/Permit Set
TECHNOLOGY	T3.01E	CONDUIT RISER DIAGRAM - TECHNOLOGY	E	10/14/2025	90% Construction Documents/Permit Set
TECHNOLOGY	T3.02E	BDA RISER DIAGRAM - TECHNOLOGY	E	10/14/2025	90% Construction Documents/Permit Set
TECHNOLOGY	T4.01E	DETAILS - TECHNOLOGY	E	10/14/2025	90% Construction Documents/Permit Set
TECHNOLOGY	T4.02E	DETAILS - TECHNOLOGY	E	10/14/2025	90% Construction Documents/Permit Set

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/1007657.00_RBPD_A_R24.rvt
DATE STAMP: 10/23/2025 11:52:38 AM

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

ARCHITECT OF RECORD

PGAL, Inc.
791 Park of Commerce Blvd.
Suite 400
Boca Raton, FL 33487
T 561 988 4002
www.pgal.com

CONSTRUCTION MANAGER/BUILDER

CORE CONSTRUCTION
1641 Worthington Rd
West Palm Beach
FL 33409

PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

STATE OF FLORIDA
JEANNIE LOHRUM
AR 96099
REGISTERED ARCHITECT

DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT

PROJECT LOCATION
2121 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
SHEET INDEX

SHEET NUMBER
G0.01E

PROJECT GRAPHIC STANDARDS

PROJECT SYMBOLS

PLAN NORTH — PLAN NORTH NORTH ARROW

PLAN NORTH — TRUE NORTH NORTH ARROW

78.0 — EXISTING POINT ELEVATION

79.0 — NEW OR FINISH POINT ELEVATION

LEVEL POINT DATUM POINT

A200 — PARTITION TYPE

LEVEL
01100 — DOOR NUMBER

101
RM NAME — ROOM NAME NUMBER

1i
1'-0" A.F.F. — CEILING TYPE CEILING HEIGHT

EXIT SIGN W/ DIRECTION SYMBOL

MATCHLINE
SEE 1 / A101 — MATCHLINE VIEW REFERENCE

1i — CURTAIN PANEL TAG

W12 — WINDOW TAG

M33.3 — WALL TAG

L1 — LOUVER TAG

ABC-111 — SPECIALTY EQUIPMENT TAG

AB-1 — FURNITURE TAG

1 — REVISION TAG

? — KEYNOTE TAG

FINISH KEYNOTES:

F1 — FLOOR MATERIALS/FINISHES

G1 — GLAZING MATERIAL/FINISH

PT-1 — WALL MATERIALS/FINISHES

012233.A1 — MasterSpec KEYNOTE

012233.A1
DESCRIPTION — MasterSpec KEYNOTE w DESCRIPTION

1 / A — COLUMN LINE REFERENCE

A / A — EXISTING COLUMN LINE REFERENCE

DETAIL NUMBER
REFERENCE
SHEET NUMBER
10 / A5.101 SIM — DETAIL NUMBER
REFERENCE
SHEET NUMBER

1 / A101 SIM

1 / A101 — 1 1 1 1

EXTERIOR
ELEVATION NUMBER
01 / A11.01 Ref — SHEET NUMBER
REFERENCE

INTERIOR
ELEVATION NUMBER
01 / A11.01 Ref — SHEET NUMBER
REFERENCE

1 / A101 SIM — BUILDING SECTION REFERENCE

1 / A101 SIM

CENTER LINE, & SYMBOL

ABOVE LINE

BEYOND LINE

BREAK LINE

1t / 888888 — CASEWORK TYPE MARK
WIDTH, HEIGHT, DEPTH — WIDTH HEIGHT COMMENTS

SCALE

1 / A101

10 / A5.101 SIM

Name
Elevation

CONSTRUCTION TYPE SYMBOLS

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE DEMOLISHED
- NEW NON-RATED CONSTRUCTION
- NEW SMOKE RATED CONSTRUCTION (30 MIN)
- NEW 1 HR. RATED CONSTRUCTION
- NEW 2 HR. RATED CONSTRUCTION
- NEW 3 HR. RATED CONSTRUCTION

MATERIAL SYMBOLS - PLAN

- BRICK
- CONCRETE MASONRY UNIT
- CONCRETE
- CAST-IN-PLACE CONCRETE
- PRECAST CONCRETE
- STONE
- GRAVEL
- COMPACTED EARTH FILL
- SAND

MATERIAL SYMBOLS - DETAIL

- STEEL
- OTHER METALS
- BATT INSULATION
- RIGID INSULATION
- GYPSUM BOARD
- PLASTER ON LATHE
- PLYWOOD
- MDF BOARD
- FINISHED WOOD
- GLASS
- TILE
- CARPET
- ACOUSTICAL TILE
- CONTINUOUS WOOD BLOCKING
- WOOD SHIM
- GRAVEL
- CONCRETE
- SAND

RCP REFERENCE SYMBOLS

- RECESSED DOWNLIGHT
- WATERPROOF RECESSED DOWNLIGHT
- PENDANT LIGHT
- SURFACE MOUNTED CEILING LIGHT FIXTURE
- JUNCTION BOX
- WALL SCONCE
- WALL MOUNTED LIGHT
- SURFACE MOUNTED FLUORESCENT LIGHT
- UNDER CABINET LIGHT
- TRACK LIGHT
- CABLE TRACK LIGHT
- SUPPLY AIR GRILLE
- RETURN AIR GRILLE
- EXHAUST AIR GRILLE
- WALL EXHAUST GRILLE
- WALL SUPPLY GRILLE
- ELECTRICAL PANEL
- CONTINUOUS AIR SUPPLY & RETURN SLOT
- SPRINKLER HEAD
- SD — SMOKE DETECTOR
- S — ALARM SPEAKER
- EXIT LIGHT
- WALL WASHERS
- ACCESS PANEL
- EXIT SIGNAGE WITH DIRECTION ARROW TO EXIT DOOR

RCP REFERENCE SYMBOLS - MECH

- BLDG. STND. SPRINKLER HEAD
- BLDG. STND. SLOT DIFFUSER
- BLDG. STND. LAY-IN SUPPLY AIR GRILLE
- BLDG. STND. LAY-IN RETURN AIR GRILLE
- EF — EXHAUST FAN

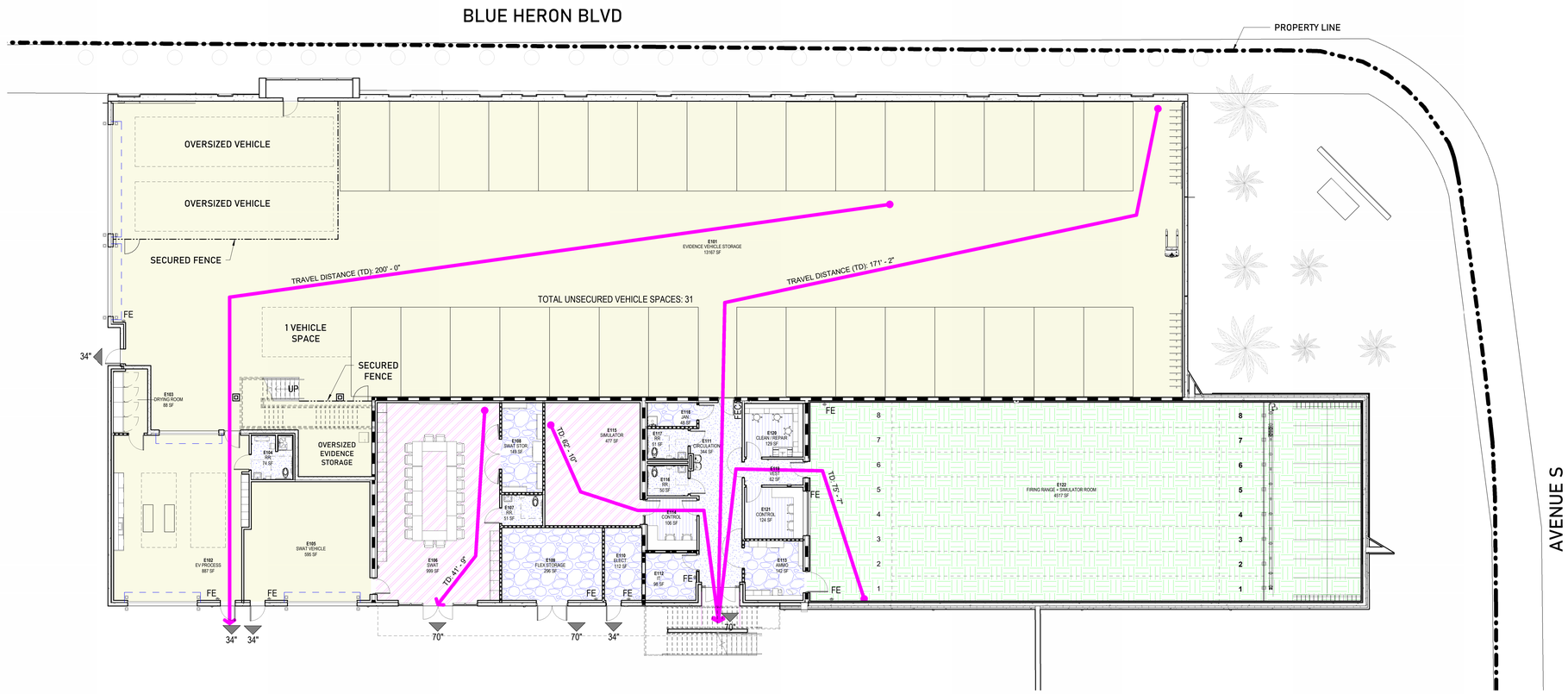
*REFER TO MEP DRAWINGS FOR ADDITIONAL INFO.

RCP REFERENCE SYMBOLS - LIGHTING

- EXISTING LIGHT FIXTURE TO REMAIN
- 2' x 4' FLUORESCENT LIGHT FIXTURE BUILDING STANDARD, UNO.
- 2' x 2' FLUORESCENT LIGHT FIXTURE BUILDING STANDARD, UNO
- RECESSED DOWNLIGHT
- RECESSED WALL WASHER
- WALL MOUNTED SCONCE RE: ELEVATIONS FOR MOUNTING HEIGHT
- EXIT SIGN FIXTURE BUILDING STANDARD, UNO
- FLUORESCENT STRIP LIGHT
- TRACK WITH LIGHT FIXTURE
- 1' x 4' OR 1' x 8' PENDANT FIXTURE
- CEILING MOUNTED PROJECTOR
- T-BAR SUSPENDED CEILING GRID SYSTEM RE: SHEET A2.1.2 FOR ADDITIONAL INFORMATION.

MATERIAL SYMBOLS - OTHER

- CROSSHATCH [DRAFTING]
- DIAGONAL CROSSHATCH_D [DRAFTING]
- DIAG CROSSHATCH_D [DRAFTING]
- DIAG DOWN SMALL_D [DRAFTING]
- DIAG DOWN SMALL_D [DRAFTING]
- CROSSHATCH (×24)
- CROSSHATCH
- CROSSHATCH
- CROSSHATCH



OVERALL FIRST FLOOR PLAN 3/32" = 1'-0" (1)

ROOM FUNCTION LEGEND

- BUSINESS AREA, (B, CONCENTRATED)
- BUSINESS AREAS, (B, ACCESSORY STORAGE / MECHANICAL USE ROOMS)
- BUSINESS AREAS, (B. BUSINESS)
- LOW HAZARD STORAGE, (S-2)
- LOW HAZARD STORAGE, (S-2, SPECIAL FUNCTION)
- SMALL ASSEMBLY, (B, BUSINESS)

SPECIAL FUNCTION*
FUNCTION OF THE FIRE RANGE IS CONTROLLED. A DEDICATED PERSONNEL, RANGE MASTER, ALSO AN INSTRUCTOR, CONTROLS AND MONITORS THE USE AND ENTRY OF THE SPACE. ALL ACCESS ARE PRE-SCHEDULED AND DETERMINED BEFORE ENTRY. EACH FIRING RANGE AISLE IS LIMITED TO 1 PERSON. THERE IS A TOTAL OF 8 LANES. THEREFORE, A TOTAL OF 8 PERSONS CAN TRAIN AT FULL CAPACITY. AN ADDITIONAL 1 INSTRUCTOR PER 2 TRAINEES IS REQUIRED. THEREFORE, 4 ADDITIONAL PERSONS FOR INSTRUCTORS ARE REQUIRED. THE TOTAL NUMBER OF ALLOWABLE PERSONS AT ONE TIME FOR FULL **OCCUPANCY IS 12 TOTAL PERSONS.**

LIFE SAFETY INFORMATION

PROJECT SUMMARY

THE PROJECT CONSISTS OF A SINGLE STORY EVIDENCE HOLDING FACILITY WITH A FIRING RANGE TRAINING FACILITY WITH CONFERENCE ROOMS AND SUPPORT SPACES. TOTAL BUILDING FOOTPRINT IS **22,568 GSF.**

EHPA / STORM SHELTER

THIS PROJECT **WILL NOT** BE CONSTRUCTED AS AN ENHANCED HURRICANE PROTECTION AREA (EHPA) OR A STORM SHELTER. IT IS CATEGORIZED AS A CRITICAL EMERGENCY OPERATION PER THE FLORIDA BUILDING CODE, 8TH EDITION UNDER CHAPTER 4, SECTION 423.3 CRITICAL EMERGENCY OPERATIONS, WHICH REQUIRES THE BUILDING TO BE RISK CATEGORY IV.

APPLICABLE CODES

THE APPLICABLE CODES AS REQUIRED BY THE CODE OF ORDINANCE OF THE CITY OF RIVIERA BEACH, FLORIDA (SEPTEMBER 6, 2024) WITHIN PALM BEACH COUNTY. PERTINENT SECTION ARE, BUT NOT LIMITED TO,
CHAPTER 6 - FIRE PROTECTION AND PROTECTION
CHAPTER 17 - SECURITY AND FIRE WARNING SYSTEMS
CHAPTER 19 - TRAFFIC AND MOTOR VEHICLES
CHAPTER 20 - UTILITIES
SUBPART B - LAND DEVELOPMENT CODE
CHAPTER 22 - BUILDINGS AND BUILDING REGULATIONS
CHAPTER 25 - FLOOD PLAIN MANAGEMENT
CHAPTER 27 - PLANNING
CHAPTER 28 - SIGNS
CHAPTER 28.5 - STORMWATER CONTROL
CHAPTER 31 - ZONING

APPLICABLE CODES

BUILDING:	FLORIDA BUILDING CODE, BUILDING - 8TH EDITION
FIRE / LIFE SAFETY:	FLORIDA FIRE PREVENTION CODE, 8TH EDITION
PLUMBING:	FLORIDA BUILDING CODE, PLUMBING, 8TH EDITION
MECHANICAL:	FLORIDA BUILDING CODE, MECHANICAL, 8TH EDITION
ELECTRICAL:	FLORIDA BUILDING CODE, CHAPTER 27, 8TH EDITION NFPA 70, NATIONAL ELECTRICAL CODE, 2018 EDITION NFPA 72, NATIONAL FIRE ALARM CODE, 2017 EDITION
ACCESSIBILITY:	FLORIDA BUILDING CODE, ACCESSIBILITY, 8TH EDITION

AGENCIES HAVING JURISDICTION

BUILDING:	CITY OF RIVIERA BEACH, FL CODE OF ORDINANCE
FIRE / LIFE SAFETY:	CITY OF RIVIERA BEACH, FL , FIRE DEPARTMENT

CONSTRUCTION TYPE	TYPE II B CONSTRUCTION, FULLY SPRINKLERED
BUILDING HEIGHT (ACTUAL)	32 FT (1 STORY)
ALLOWABLE STORIES	4 (4 STORIES ALLOWABLE (SPRINKLERED) PER FBC TABLE 504.4)
ALLOWABLE HEIGHT	75 FT (75 FT ALLOWABLE (SPRINKLERED) PER FBC TABLE 504.3)
ALLOWABLE BUILDING AREA	92,000 SF PER STORY PER TABLE 506.2, SPRINKLERED SINGLE-STORY
ACTUAL BUILDING AREA	**22,568 GSF (1 STORY /32 FT MAX HEIGHT)**
ACTUAL BUILDING HEIGHT	**32 FT (1 STORIES)**

OCCUPANCY INFORMATION

OCCUPANCY USE / ROOM FUNCTION	FBC (SF)	NFPA (SF)	ALLOWABLE OCCUPANCY
BUSINESS (B)	150 GSF	150 GSF	6
BUSINESS (B), CONCENTRATED	50 GSF	50 GSF	7
BUSINESS (B), SMALL ASSEMBLY	15 GSF	15 GSF	99
BUSINESS (B), STORAGE / MECH.	300 GSF	300 GSF	6
LOW HAZARD STORAGE (S2)	200 GSF	200 GSF	74*
LOW HAZARD STORAGE (S2), SPECIAL FUNCTION*	200 GSF	200 GSF	12
		TOTAL ALLOWABLE BUILDING OCCUPANCY	**204 PERSONS**

OCCUPANCY CLASSIFICATION

FBC, BUILDING, 8TH EDITION, CHAPTER 3 - USE & OCCUPANCY CLASSIFICATION IS A MIXED USE W/ PRIMARY FUNCTION: GROUP B - BUSINESS OCCUPANCY; OTHER OCCUPANCY USE ARE ASSEMBLY (A-3) AND LOW HAZARD USE (S-2) WITH SPECIAL FUNCTION.

OCCUPANCY LOAD FACTORS

FBC, BUILDING, 8TH EDITION, TABLE 1004.5, MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT / NFPA 101 TABLE 7.3.1.2 OCCUPANT LOAD FACTOR.

DOOR EXIT WIDTHS (AS DESIGNED) (NOTE: FACTOR OF 0.2 INCHES ALLOWABLE WHEN BUILDING IS FULLY SPRINKLERED)	**EXIT WIDTH REQUIRED** 204 PERSON x 0.2" = 40.8"	**EXIT WIDTH AS DESIGNED** 206 INCHES
ALLOWABLE MAXIMUM EXIT ACCESS TRAVEL DISTANCE (FBC, TABLE 1017.2 & NFPA 101, 12.2.6.2(1))	BUSINESS, 300 FT W/ SPRINKLER ASSEMBLY, 250 FT W/ SPRINKLER LOW HAZARD STORAGE (S-2), 250 FT SPRINKLERED	
ALLOWABLE EXIT COMMON PATH OF TRAVEL DISTANCE (FBC, TABLE 1006.2.1)	BUSINESS, 100 FT W/ SPRINKLER ASSEMBLY, 75 FT W/ SPRINKLER LOW HAZARD STORAGE (S-2), 100 FT SPRINKLERED	
DEAD END CORRIDOR (FBC, 1020.4, EXCEPTION 2 & NFPA 101, 38.2.5.2.1)	BUSINESS, 50 FT W/ SPRINKLER ASSEMBLY, 20 FT W/ SPRINKLER LOW HAZARD STORAGE (S-2), 50 FT SPRINKLERED	
NUMBER OF EXITS REQUIRED, (OCCUPANCY TYPE B)	PER FBC TABLE 1006.2.1 - 2 OR MORE FROM SPACE EXCEEDING 49 OCCUPANTS OR WHEN COMMON PATH OF TRAVEL EXCEEDS 100 FT PER FBC TABLE 1006.3.2 - 2 EXITS REQUIRED PER STORY FOR 1-500 OCCUPANTS	
MINIMUM DOOR WIDTH	32 INCHES	
MINIMUM CORRIDOR WIDTH	44 INCHES	

MINIMUM REQUIRED PLUMBING FIXTURES (FBC, TABLE 403.1, BUSINES OCCUPANCY)

BASED ON 194 OCCUPANTS

	PROVIDED	REQUIRED	RATIO
UNISEX, W.C.	4	4	1:25 FIRST 50 + 1:50 AFTERWARDS
UNISEX, LAVATORIES	4	3	1:40 FIRST 80 + 1:80 AFTERWARDS
DRINKING FOUNTAINS	2	1	1:100 (FBC, 410.3)

DISTANCE TO PUBLIC RESTROOMS (FBC 403.3.3)

1. SHALL BE ON AN ACCESSIBLE ROUTE, NOT BE MORE THAN 1 STORY ABOVE OR BELOW AND SHALL NOT EXCEED 500 FT TRAVEL DISTANCE. EXISTING AND PROPOSED CONDITIONS COMPLY.

DRINKING FOUNTAINS (FBC 410.3 SUBSTITUTION)

1. WHERE DRINKING FOUNTAINS ARE REQUIRED, WATER COOLERS OR BOTTLED WATER DISPENSERS SHALL BE PERMITTED TO BE SUBSTITUTED FOR NOT MORE THAN 50 PERCENT OF THE REQUIRED NUMBER OF DRINKING FOUNTAINS.

FIRE RESISTANCE BY CONSTRUCTION TYPE (FBC, TABLE 601)

PRIMARY STRUCTURAL FRAME	0 HOURS
BEARING WALLS, EXTERIOR	0 HOURS
BEARING WALLS, INTERIOR	0 HOURS
NONBEARING WALLS, EXTERIOR	0 HOURS
NONBEARING WALLS, EXTERIOR	0 HOURS (PER TABLE 705.5, 10 ≤ X ≤ 30)
FLOOR CONSTRUCTION	0 HOURS (NOT APPLICABLE)
ROOF CONSTRUCTION	0 HOURS
CORRIDORS	0 HOURS
EXIT STAIRS	0 HOURS (NOT APPLICABLE)
FLOOR OPENINGS / SHAFTS	0 HOURS (NOT APPLICABLE)

OPENING PROTECTIVES IN FIRE RESISTANT CONSTRUCTION

CONSTRUCTION TYPE	FIRE RESISTANCE RATING
1-HOUR FIRE BARRIER	3/4 HOUR
2-HOUR FIRE BARRIER	1-1/2 HOUR
1-HOUR EXIT ENCLOSURE	1 HOUR
SMOKE PARTITION	1/3 HOUR

SEPARATION FROM HAZARDS

ROOM / AREA	FBC	NFPA
BUSINESS (B) / ASSEMBLY (A-3)	1 HR	1 HR
--	--	--

PER FBC, TABEL 508.4, REQUIRED SEPARATION OF OCCUPANCIES (HOURS)
PER NFPA 1, FIRE CODE, FLORIDA EDITION, TABLE 6.1.14.4.1(b)

(FS) = FULL SPRINKLERED, AUTOMATIC

SEPARATION FROM HAZARDS

ROOM / AREA	FIRE RESISTANCE RATING	STANDARD
BOILER / FURNACE ROOM	SMOKE PARTITION W/ SPRINKLER	NFPA 101
JANITOR CLOSETS	SMOKE PARTITION W/ SPRINKLER	NFPA 101
STORAGE ROOMS	SMOKE PARTITION W/ SPRINKLER	NFPA 101

INTERIOR FINISHES (FBC, TABLE 803.11)

ROOM & FINISH TYPE	FIRE RESISTANCE RATING
EXITS	CLASS B
EXIT ACCESS CORRIDORS	CLASS B
OTHER THAN EXITS	CLASS C
LOW HEIGHT PARTITIONS	CLASS C1
INTERIOR FLOOR FINISHES	PER FBC, SECTION 804
GENERAL ASSEMBLY AREAS (>300)	N/A
GENERAL ASSEMBLY AREAS (<300)	N/A

NOTES:
1. PARTITIONS NOT EXCEEDING 60 INCHES AND IN LOCATIONS OTHER THAN EXITS

LIFE SAFETY SYMBOLS

- NON-RATED PARTITION
- SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- TRAVEL DISTANCE TO EXIT
- 36" WIDTH OF EGRESS UNITS (IN)
- FEC FIRE EXTINGUISHER, CABINET
- FE FIRE EXTINGUISHER, WALL MOUNTED
- WALL SPEAKER / STROBE
- SPEAKER
- CEILING SPEAKER STROBE
- FIRE STROBE ONLY
- WALL MOUNTED EXIT LIGHT
- CEILING MOUNTED EXIT LIGHT
- CEILING MOUNTED SMOKE DETECTOR
- MANUAL PULL STATION

NOTE: NOT ALL ITEMS IN THIS LEGEND MAY BE USED.

LIFE SAFETY

ROOM NO.	ROOM NAME	NSF	OCCUPANCY USE / FUNCTION	OCCUPANCY FACTOR	ALLOWABLE OCCUPANCY
BUSINESS AREA, (B, CONCENTRATED)					
E114	CONTROL	106 SF	BUSINESS AREA, (B, CONCENTRATED)	50 SF	2
E121	CONTROL	124 SF	BUSINESS AREA, (B, CONCENTRATED)	50 SF	2
E120	CLEAN / REPAIR	129 SF	BUSINESS AREA, (B, CONCENTRATED)	50 SF	3
		358 SF			7
BUSINESS AREAS, (B, ACCESSORY STORAGE / MECHANICAL USE ROOMS)					
E109	FLEX STORAGE	296 SF	BUSINESS AREAS, (B, ACCESSORY STORAGE / MECHANICAL USE ROOMS)	300 SF	1
E110	ELECT.	112 SF	BUSINESS AREAS, (B, ACCESSORY STORAGE / MECHANICAL USE ROOMS)	300 SF	1
E108	SWAT STOR.	149 SF	BUSINESS AREAS, (B, ACCESSORY STORAGE / MECHANICAL USE ROOMS)	300 SF	1
E118	JAN.	48 SF	BUSINESS AREAS, (B, ACCESSORY STORAGE / MECHANICAL USE ROOMS)	300 SF	1
E112	IT	98 SF	BUSINESS AREAS, (B, ACCESSORY STORAGE / MECHANICAL USE ROOMS)	300 SF	1
E113	AMMO	142 SF	BUSINESS AREAS, (B, ACCESSORY STORAGE / MECHANICAL USE ROOMS)	300 SF	1
		845 SF			6
BUSINESS AREAS, (B. BUSINESS)					
E107	RR	51 SF	BUSINESS AREAS, (B. BUSINESS)	15 SF	3
E104	RR	74 SF	BUSINESS AREAS, (B. BUSINESS)	200 SF	1
E116	RR	50 SF	BUSINESS AREAS, (B. BUSINESS)	150 SF	1
E117	RR	51 SF	BUSINESS AREAS, (B. BUSINESS)	150 SF	1
E111	CIRCULATION	344 SF	BUSINESS AREAS, (B. BUSINESS)	150 SF	0
E119	VEST	62 SF	BUSINESS AREAS, (B. BUSINESS)	150 SF	0
		633 SF			6
LOW HAZARD STORAGE, (S-2)					
E105	SWAT VEHICLE	595 SF	LOW HAZARD STORAGE, (S-2)	200 SF	3
E102	EV PROCESS	887 SF	LOW HAZARD STORAGE, (S-2)	200 SF	4
E101	EVIDENCE VEHICLE STORAGE	13167 SF	LOW HAZARD STORAGE, (S-2)	200 SF	66
E103	DRYING ROOM	88 SF	LOW HAZARD STORAGE, (S-2)	200 SF	1
		14737 SF			74
LOW HAZARD STORAGE, (S-2, SPECIAL FUNCTION)					
E122	FIRING RANGE + SIMULATOR ROOM	4517 SF	LOW HAZARD STORAGE, (S-2, SPECIAL FUNCTION)	200 SF	12
		4517 SF			12
SMALL ASSEMBLY, (B, BUSINESS)					
E106	SWAT	999 SF	SMALL ASSEMBLY, (B, BUSINESS)	15 SF	67
E115	SIMULATOR	477 SF	SMALL ASSEMBLY, (B, BUSINESS)	15 SF	32
		1476 SF			99
		22566 SF			204

PLAN NORTH

0 5" 10" 20" 30" 40"
3/32" = 1'-0" GRAPHIC SCALE

CLIENT
CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

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1678 Kingston Road
Longwood, FL
32750

REGISTRATION
STATE OF FLORIDA — LONNIE LOHRUM — AR 95898 — REGISTERED ARCHITECT

DRAWING HISTORY

No.	DATE	DESCRIPTION

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS / PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPD EVIDENCE & FIRE RANGE BUILDING

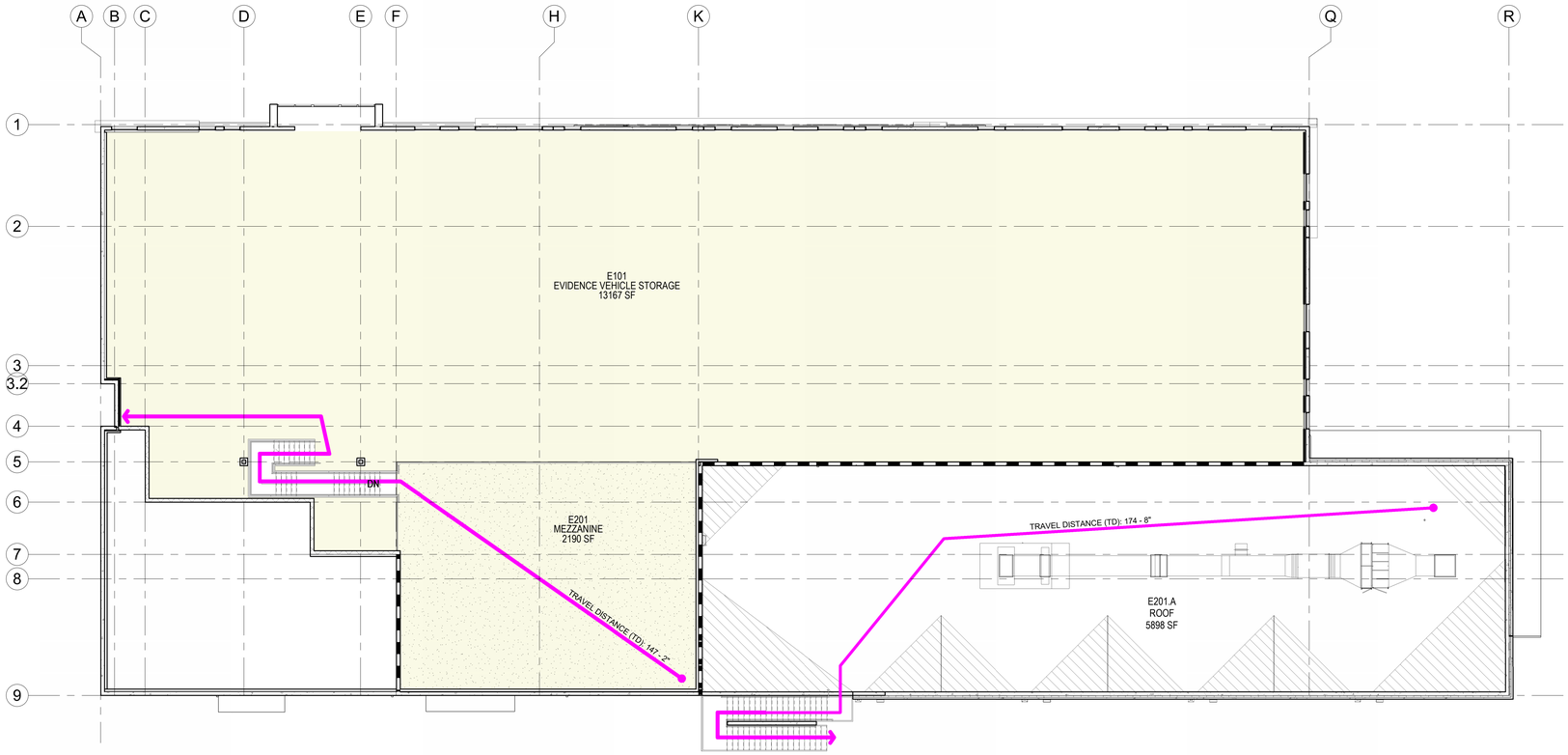
PROJECT LOCATION
2125 AVENUE S,
RIVIERA BEACH, FL
33404

PROJECT NUMBER
1007657.00

SHEET TITLE
LIFE SAFETY

SHEET NUMBER
LS2.10E

FILE NAME: Autodesk Docs://_1007657.00 - CORE - City of Riviera Beach D/1007657 - RBPD_Evidence_&_Fire_Range_Building.rvt
DATE STAMP: 10/23/2025 5:40:30 PM



ROOM FUNCTION LEGEND

- LOW HAZARD STORAGE, (S-2)
- LOW HAZARD STORAGE, (S-2, SPECIAL FUNCTION)
- SMALL ASSEMBLY, (B, BUSINESS)

MEZZANINE CALCULATION

OVERALL SQUARE FOOTAGE BEING SERVED:	13169 SF
1/3 OF OVERALL SQUARE FOOTAGE:	4340 SF
TOTAL OCCUPIABLE MEZZANINE SQUARE FOOTAGE:	2190 SF

*MEZZANINE DOES NOT EXCEED 1/3 SQUARE FOOTAGE OF SPACE BEING SERVED.

OVERALL FLOOR PLAN, MEZZANINE LIFE SAFETY 3/32" = 1'-0" (1)

LIFE SAFETY INFORMATION

PROJECT SUMMARY

THE PROJECT CONSISTS OF A SINGLE STORY EVIDENCE HOLDING FACILITY WITH A FIRING RANGE TRAINING FACILITY WITH CONFERENCE ROOMS AND SUPPORT SPACES. TOTAL BUILDING FOOTPRINT IS **22,568 GSF.**

EHPA / STORM SHELTER

THIS PROJECT **WILL NOT** BE CONSTRUCTED AS AN ENHANCED HURRICANE PROTECTION AREA (EHPA) OR A STORM SHELTER. IT IS CATEGORIZED AS A CRITICAL EMERGENCY OPERATION PER THE FLORIDA BUILDING CODE, 8TH EDITION UNDER CHAPTER 4, SECTION 423.3 CRITICAL EMERGENCY OPERATIONS, WHICH REQUIRES THE BUILDING TO BE RISK CATEGORY IV.

APPLICABLE CODES

THE APPLICABLE CODES AS REQUIRED BY THE CODE OF ORDINANCE OF THE CITY OF RIVIERA BEACH, FLORIDA (SEPTEMBER 6, 2024) WITHIN PALM BEACH COUNTY. PERTINENT SECTION ARE, BUT NOT LIMITED TO,
CHAPTER 6 - FIRE PROTECTION AND PROTECTION
CHAPTER 17 - SECURITY AND FIRE WARNING SYSTEMS
CHAPTER 19 - TRAFFIC AND MOTOR VEHICLES
CHAPTER 20 - UTILITIES
SUBPART B - LAND DEVELOPMENT CODE
CHAPTER 22 - BUILDINGS AND BUILDING REGULATIONS
CHAPTER 25 - FLOOD PLAIN MANAGEMENT
CHAPTER 27 - PLANNING
CHAPTER 28 - SIGNS
CHAPTER 28.5 - STORMWATER CONTROL
CHAPTER 31 - ZONING

APPLICABLE CODES

BUILDING:	FLORIDA BUILDING CODE, BUILDING - 8TH EDITION
FIRE / LIFE SAFETY:	FLORIDA FIRE PREVENTION CODE, 8TH EDITION
PLUMBING:	FLORIDA BUILDING CODE, PLUMBING, 8TH EDITION
MECHANICAL:	FLORIDA BUILDING CODE, MECHANICAL, 8TH EDITION
ELECTRICAL:	FLORIDA BUILDING CODE, CHAPTER 27, 8TH EDITION NFPA 70, NATIONAL ELECTRICAL CODE, 2018 EDITION NFPA 72, NATIONAL FIRE ALARM CODE, 2017 EDITION
ACCESSIBILITY:	FLORIDA BUILDING CODE, ACCESSIBILITY, 8TH EDITION

AGENCIES HAVING JURISDICTION

BUILDING:	CITY OF RIVIERA BEACH, FL CODE OF ORDINANCE
FIRE / LIFE SAFETY:	CITY OF RIVIERA BEACH, FL , FIRE DEPARTMENT

CONSTRUCTION TYPE	TYPE II B CONSTRUCTION, FULLY SPRINKLERED
BUILDING HEIGHT (ACTUAL)	32 FT (1 STORY)
ALLOWABLE STORIES	4 (4 STORIES ALLOWABLE (SPRINKLERED) PER FBC TABLE 504.4)
ALLOWABLE HEIGHT	75 FT (75 FT ALLOWABLE (SPRINKLERED) PER FBC TABLE 504.3)
ALLOWABLE BUILDING AREA	92,000 SF PER STORY PER TABLE 506.2, SPRINKLERED SINGLE-STORY
ACTUAL BUILDING AREA	**22,568 GSF (1 STORY /32 FT MAX HEIGHT)**
ACTUAL BUILDING HEIGHT	**32 FT (1 STORIES)**

OCCUPANCY INFORMATION

OCCUPANCY USE / ROOM FUNCTION	FBC (SF)	NFPA (SF)	ALLOWABLE OCCUPANCY
BUSINESS (B)	150 GSF	150 GSF	6
BUSINESS (B), CONCENTRATED	50 GSF	50 GSF	7
BUSINESS (B), SMALL ASSEMBLY	15 GSF	15 GSF	99
BUSINESS (B), STORAGE / MECH.	300 GSF	300 GSF	6
LOW HAZARD STORAGE (S2)	200 GSF	200 GSF	74*
LOW HAZARD STORAGE (S2), SPECIAL FUNCTION*	200 GSF	200 GSF	12
		TOTAL ALLOWABLE BUILDING OCCUPANCY	**204 PERSONS**

OCCUPANCY CLASSIFICATION

FBC, BUILDING, 8TH EDITION, CHAPTER 3 - USE & OCCUPANCY CLASSIFICATION IS A MIXED USE W/ PRIMARY FUNCTION: GROUP B - BUSINESS OCCUPANCY; OTHER OCCUPANCY USE ARE ASSEMBLY (A-3) AND LOW HAZARD USE (S-2) WITH SPECIAL FUNCTION.

OCCUPANCY LOAD FACTORS

FBC, BUILDING, 8TH EDITION, TABLE 1004.5, MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT / NFPA 101 TABLE 7.3.1.2 OCCUPANT LOAD FACTOR.

DOOR EXIT WIDTHS (AS DESIGNED)	EXIT WIDTH REQUIRED	EXIT WIDTH AS DESIGNED
(NOTE: FACTOR OF 0.2 INCHES ALLOWABLE WHEN BUILDING IS FULLY SPRINKLERED)	204 PERSON x 0.2" = 40.8"	206 INCHES

ALLOWABLE MAXIMUM EXIT ACCESS TRAVEL DISTANCE (FBC, TABLE 1017.2 & NFPA 101, 12.2.6.2(1))	BUSINESS, 300 FT W/ SPRINKLER ASSEMBLY, 250 FT W/ SPRINKLER LOW HAZARD STORAGE (S-2), 250 FT SPRINKLERED
ALLOWABLE EXIT COMMON PATH OF TRAVEL DISTANCE (FBC, TABLE 1006.2.1)	BUSINESS, 100 FT W/ SPRINKLER ASSEMBLY, 75 FT W/ SPRINKLER LOW HAZARD STORAGE (S-2), 100 FT SPRINKLERED
DEAD END CORRIDOR (FBC, 1020.4, EXCEPTION 2 & NFPA 101, 38.2.5.2.1)	BUSINESS, 50 FT W/ SPRINKLER ASSEMBLY, 20 FT W/ SPRINKLER LOW HAZARD STORAGE (S-2), 50 FT SPRINKLERED
NUMBER OF EXITS REQUIRED, (OCCUPANCY TYPE B)	PER FBC TABLE 1006.2.1 - 2 OR MORE FROM SPACE EXCEEDING 49 OCCUPANTS OR WHEN COMMON PATH OF TRAVEL EXCEEDS 100 FT PER FBC TABLE 1006.3.2 - 2 EXITS REQUIRED PER STORY FOR 1-500 OCCUPANTS
MINIMUM DOOR WIDTH	32 INCHES
MINIMUM CORRIDOR WIDTH	44 INCHES

MINIMUM REQUIRED PLUMBING FIXTURES (FBC, TABLE 403.1, BUSINES OCCUPANCY)

BASED ON 194 OCCUPANTS

	PROVIDED	REQUIRED	RATIO
UNISEX, W.C.	4	4	1:25 FIRST 50 + 1:50 AFTERWARDS
UNISEX, LAVATORIES	4	3	1:40 FIRST 80 + 1:80 AFTERWARDS
DRINKING FOUNTAINS	2	1	1:100 (FBC, 410.3)

DISTANCE TO PUBLIC RESTROOMS (FBC 403.3.3)

1. SHALL BE ON AN ACCESSIBLE ROUTE, NOT BE MORE THAN 1 STORY ABOVE OR BELOW AND SHALL NOT EXCEED 500 FT TRAVEL DISTANCE. EXISTING AND PROPOSED CONDITIONS COMPLY.

DRINKING FOUNTAINS (FBC 410.3 SUBSTITUTION)

1. WHERE DRINKING FOUNTAINS ARE REQUIRED, WATER COOLERS OR BOTTLED WATER DISPENSERS SHALL BE PERMITTED TO BE SUBSTITUTED FOR NOT MORE THAN 50 PERCENT OF THE REQUIRED NUMBER OF DRINKING FOUNTAINS.

FIRE RESISTANCE BY CONSTRUCTION TYPE (FBC, TABLE 601)

PRIMARY STRUCTURAL FRAME	0 HOURS
BEARING WALLS, EXTERIOR	0 HOURS
BEARING WALLS, INTERIOR	0 HOURS
NONBEARING WALLS, EXTERIOR	0 HOURS
NONBEARING WALLS, EXTERIOR	0 HOURS (PER TABLE 705.5, $10 \leq X \leq 30$)
FLOOR CONSTRUCTION	0 HOURS (NOT APPLICABLE)
ROOF CONSTRUCTION	0 HOURS
CORRIDORS	0 HOURS
EXIT STAIRS	0 HOURS (NOT APPLICABLE)
FLOOR OPENINGS / SHAFTS	0 HOURS (NOT APPLICABLE)

OPENING PROTECTIVES IN FIRE RESISTANT CONSTRUCTION

CONSTRUCTION TYPE	FIRE RESISTANCE RATING
1-HOUR FIRE BARRIER	3/4 HOUR
2-HOUR FIRE BARRIER	1-1/2 HOUR
1-HOUR EXIT ENCLOSURE	1 HOUR
SMOKE PARTITION	1/3 HOUR

SEPARATION FROM HAZARDS

ROOM / AREA	FBC	NFPA
BUSINESS (B) / ASSEMBLY (A-3)	1 HR	1 HR
--	--	--

PER FBC, TABEL 508.4, REQUIRED SEPARATION OF OCCUPANCIES (HOURS)
PER NFPA 1, FIRE CODE, FLORIDA EDITION, TABLE 6.1.14.4.1(b)

(FS) = FULL SPRINKLERED, AUTOMATIC

SEPARATION FROM HAZARDS

ROOM / AREA	FIRE RESISTANCE RATING	STANDARD
BOILER / FURNACE ROOM	SMOKE PARTITION W/ SPRINKLER	NFPA 101
JANITOR CLOSETS	SMOKE PARTITION W/ SPRINKLER	NFPA 101
STORAGE ROOMS	SMOKE PARTITION W/ SPRINKLER	NFPA 101

INTERIOR FINISHES (FBC, TABLE 803.11)

ROOM & FINISH TYPE	FIRE RESISTANCE RATING
EXITS	CLASS B
EXIT ACCESS CORRIDORS	CLASS B
OTHER THAN EXITS	CLASS C
LOW HEIGHT PARTITIONS	CLASS C[1]
INTERIOR FLOOR FINISHES	PER FBC, SECTION 804
GENERAL ASSEMBLY AREAS (>300)	N/A
GENERAL ASSEMBLY AREAS (<300)	N/A

NOTES:
1. PARTITIONS NOT EXCEEDING 60 INCHES AND IN LOCATIONS OTHER THAN EXITS

LIFE SAFETY SYMBOLS

- NON-RATED PARTITION
- SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- TRAVEL DISTANCE TO EXIT
- 36" WIDTH OF EGRESS UNITS (IN)
- FEC FIRE EXTINGUISHER, CABINET
- FE FIRE EXTINGUISHER, WALL MOUNTED
- WALL SPEAKER / STROBE
- SPEAKER
- CEILING SPEAKER STROBE
- FIRE STROBE ONLY
- WALL MOUNTED EXIT LIGHT
- CEILING MOUNTED EXIT LIGHT
- CEILING MOUNTED SMOKE DETECTOR
- P MANUAL PULL STATION

NOTE: NOT ALL ITEMS IN THIS LEGEND MAY BE USED.

LIFE SAFETY

ROOM NO.	ROOM NAME	NSF	OCCUPANCY USE / FUNCTION	OCCUPANCY FACTOR	ALLOWABLE OCCUPANCY
BUSINESS AREA, (B, CONCENTRATED)					
E114	CONTROL	106 SF	BUSINESS AREA, (B, CONCENTRATED)	50 SF	2
E121	CONTROL	124 SF	BUSINESS AREA, (B, CONCENTRATED)	50 SF	2
E120	CLEAN / REPAIR	129 SF	BUSINESS AREA, (B, CONCENTRATED)	50 SF	3
		358 SF			7
BUSINESS AREAS, (B, ACCESSORY STORAGE / MECHANICAL USE ROOMS)					
E109	FLEX STORAGE	296 SF	BUSINESS AREAS, (B, ACCESSORY STORAGE / MECHANICAL USE ROOMS)	300 SF	1
E110	ELECT.	112 SF	BUSINESS AREAS, (B, ACCESSORY STORAGE / MECHANICAL USE ROOMS)	300 SF	1
E108	SWAT STOR.	149 SF	BUSINESS AREAS, (B, ACCESSORY STORAGE / MECHANICAL USE ROOMS)	300 SF	1
E118	JAN.	48 SF	BUSINESS AREAS, (B, ACCESSORY STORAGE / MECHANICAL USE ROOMS)	300 SF	1
E112	IT	98 SF	BUSINESS AREAS, (B, ACCESSORY STORAGE / MECHANICAL USE ROOMS)	300 SF	1
E113	AMMO	142 SF	BUSINESS AREAS, (B, ACCESSORY STORAGE / MECHANICAL USE ROOMS)	300 SF	1
		845 SF			6
BUSINESS AREAS, (B. BUSINESS)					
E107	RR	51 SF	BUSINESS AREAS, (B. BUSINESS)	15 SF	3
E104	RR	74 SF	BUSINESS AREAS, (B. BUSINESS)	200 SF	1
E116	RR	50 SF	BUSINESS AREAS, (B. BUSINESS)	150 SF	1
E117	RR	51 SF	BUSINESS AREAS, (B. BUSINESS)	150 SF	1
E111	CIRCULATION	344 SF	BUSINESS AREAS, (B. BUSINESS)	150 SF	0
E119	VEST	62 SF	BUSINESS AREAS, (B. BUSINESS)	150 SF	0
		633 SF			6
LOW HAZARD STORAGE, (S-2)					
E105	SWAT VEHICLE	595 SF	LOW HAZARD STORAGE, (S-2)	200 SF	3
E102	EV PROCESS	887 SF	LOW HAZARD STORAGE, (S-2)	200 SF	4
E101	EVIDENCE VEHICLE STORAGE	13167 SF	LOW HAZARD STORAGE, (S-2)	200 SF	66
E103	DRYING ROOM	88 SF	LOW HAZARD STORAGE, (S-2)	200 SF	1
		14737 SF			74
LOW HAZARD STORAGE, (S-2, SPECIAL FUNCTION)					
E122	FIRING RANGE + SIMULATOR ROOM	4517 SF	LOW HAZARD STORAGE, (S-2, SPECIAL FUNCTION)	200 SF	12
		4517 SF			12
SMALL ASSEMBLY, (B, BUSINESS)					
E106	SWAT	999 SF	SMALL ASSEMBLY, (B, BUSINESS)	15 SF	67
E115	SIMULATOR	477 SF	SMALL ASSEMBLY, (B, BUSINESS)	15 SF	32
		1476 SF			99
		22566 SF			204

PLAN NORTH

0 5' 10' 20' 30' 40'
3/32" = 1'-0" GRAPHIC SCALE

CLIENT

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REGISTRATION

STATE OF FLORIDA
JEANNINE LORUM
AR 96288
REGISTERED ARCHITECT

DRAWING HISTORY

No.	DATE	DESCRIPTION

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS / PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPD EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
LIFE SAFETY - MEZZANINE

SHEET NUMBER
LS2.15E

FILE NAME: Autodesk Docs// 1007657.00 - CORE - City of Riviera Beach D/1007657 - RBPD_Evidence_&_Fire_Range_Building.rvt
DATE STAMP: 10/23/2025 5:40:33 PM

THROUGH-PENETRATION FIRESTOP SYSTEM SCHEDULE

FIRESTOP SYSTEMS ARE LISTED USING THE ALPHA-ALPHA-NUMERIC IDENTIFICATION SYSTEM
PUBLISHED IN UL'S FIRE RESISTANT DIRECTORY, VOL. 2

	CONSTRUCTION							
	FLOOR PENETRATION SYSTEM (FIRST ALPHA COMPONENT = C or F)		WALL PENETRATION SYSTEM (FIRST ALPHA COMPONENT = C or W)					
	CONCRETE FLOORS WITH A MIN. THICKNESS LESS THAN OR EQUAL TO 5"	CONCRETE FLOORS WITH A MIN. THICKNESS GREATER THAN 5"	CONCRETE OR MASONRY WALLS		FRAMED GYPSUM WALLS		FRAMED GYPSUM SHAFT WALLS	
TYPE OF PENETRANT	1 HOUR MIN.	2 HOUR MIN.	1 HOUR	2 HOUR	1 HOUR	2 HOUR	1 HOUR	2 HOUR
NO PENETRATING ITEMS	F-A-0000 -0999 or C-AJ-0000 -0999	C-BJ-0000 -0999 or C-AJ-0000 -0999	W-J-0000 -0999 or C-AJ-0000 -0999	W-J-0000 -0999 or C-AJ-0000 -0999	W-L-0030	W-L-0030	N/A	N/A
METALLIC PIPE, CONDUIT OR TUBING	F-A-1000 -1999 or C-AJ-1000 -1999	F-B-1000 -1999 or C-BJ-1000 -1999	W-J-1000 -1999 or C-AJ-1000 -1999	W-J-1000 -1999 or C-AJ-1000 -1999	W-L-1000 -1999	W-L-1000 -1999	W-L-1000 -1999	W-L-1000 -1999
NONMETALLIC PIPE OR TUBING	F-A-2000 -2999 or C-AJ-2000 -2999	F-B-2000 -2999 or C-BJ-2000 -2999	W-J-2000 -2999 or C-AJ-2000 -2999	W-J-2000 -2999 or C-AJ-2000 -2999	W-L-2000 -2999	W-L-2000 -2999	W-L-2000 -2999	W-L-2000 -2999
COMMUNICATIONS CABLES	F-A3000 -3999 or C-BJ-3000 -3999	F-A3000 -3999 or C-BJ-3000 -3999	W-J-3000 -3999 or C-AJ-3000 -3999	W-J-3000 -3999 or C-AJ-3000 -3999	W-L-3000 -3999	W-L-3000 -3999	W-L-3000 -3999	W-L-3000 -3999
CABLE TRAYS WITH COMMUNICATIONS CABLES	F-A4000 -4999 or C-BJ-4000 -4999	F-A4000 -4999 or C-BJ-4000 -4999	W-J-4000 -4999 or C-AJ-4000 -4999	W-J-4000 -4999 or C-AJ-4000 -4999	W-L-4000 -4999	W-L-4000 -4999	N/A	N/A
INSULATED PIPES	F-A-5000 -5999 or C-AJ-5000 -5999	F-A-5000 -5999 or C-AJ-5000 -5999	W-J-5000 -5999 or C-AJ-5000 -5999	W-J-5000 -5999 or C-AJ-5000 -5999	W-L-5000 -5999	W-L-5000 -5999	W-L-5000 -5999	W-L-5000 -5999
MISCELLANEOUS MECHANICAL PENETRANTS	F-A-7000 -7999 or C-AJ-7000 -7999	F-A-7000 -7999 or C-AJ-7000 -7999	W-J-7000 -7999 or C-AJ-7000 -7999	W-J-7000 -7999 or C-AJ-7000 -7999	W-L-7000 -7999	W-L-7000 -7999	W-L-7000 -7999	W-L-7000 -7999
GROUPING OF PENETRATIONS	F-A-8000 -8999 or C-AJ-8000 -8999	F-A-8000 -8999 or C-AJ-8000 -8999	W-J-8000 -8999 or C-AJ-8000 -8999	W-J-8000 -8999 or C-AJ-8000 -8999	W-L-8000 -8999	W-L-8000 -8999	N/A	N/A

FOR EACH LOCATION WHERE A FIRE-RESISTANCE-RATED FLOOR OR WALL ASSEMBLY IS PENETRATED, PROVIDE A UL-LISTED THROUGH-PENETRATION FIRESTOP SYSTEM SELECTED FROM THE APPLICABLE UL NUMBER RANGE LISTED ABOVE THAT COMPLIES WITH SECTION --078400 -FIRESTOPPING-- AND IS SUITABLE FOR THE PENETRATION CONDITIONS INDICATED FOR THE PROJECT.

SYSTEM DESIGNATIONS

THE FIRST ALPHA COMPONENT IS ONE OF THREE LETTERS REPRESENTING THE TYPE OF PENETRATION:

LETTER CONSTRUCTION PENETRATED

F FLOOR PENETRATIONS

W WALL PENETRATIONS

C EITHER FLOOR OR WALL PENETRATIONS

THE SECOND ALPHA COMPONENT DESCRIBES THE TYPE OF CONSTRUCTION BEING PENETRATED AND CAN INCLUDE A SINGLE LETTER OR DUAL LETTERS:

LETTER DESCRIPTION

A CONCRETE FLOORS WITH A MINIMUM THICKNESS LESS THAN OR EQUAL TO 5 INCHES.

B CONCRETE FLOORS WITH A MINIMUM THICKNESS OF MORE THAN 5 INCHES.

C FRAMED FLOORS

D STEEL DECKS IN MARINE VESSELS

E FLOOR/CEILING ASSEMBLIES CONSISTING OFCONCRETE WITH MEMBRANE PROTECTION

F THRU INOT USED NOW

J CONCRETE OR MASONRY WALLS WITH A MINIMUM THICKNESS LESS THAN OR EQUAL TO 8 INCHES

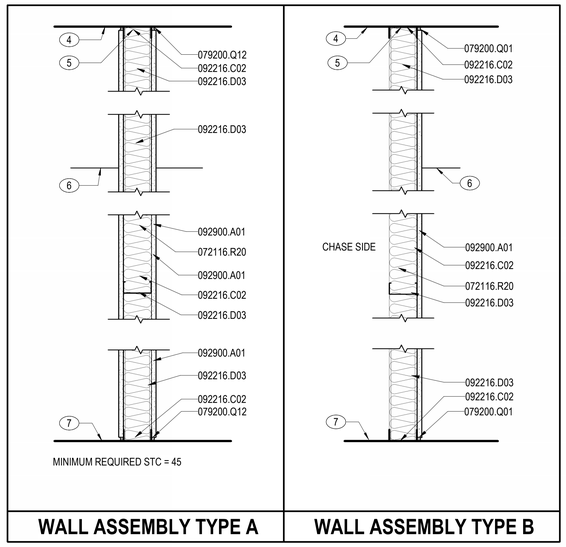
K CONCRETE OR MASONRY WALLS WITH A MINIMUM THICKNESS OF MORE THAN 8 INCHES

L FRAMED WALLS

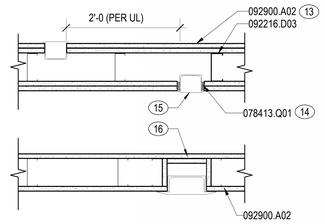
MBULKHEADS IN MARINE VESSELS

KEYNOTES:

1. FIRE RESISTANT OR SMOKE RATED FLOOR CONSTRUCTION.
2. FIRE RESISTANT OR SMOKE RATED WALL CONSTRUCTION.
3. PENETRANT - REFER TO SCHEDULE FOR TYPE.
4. THROUGH PENETRATION FIRE STOP SYSTEM - PROVIDE SYSTEM IN ACCORDANCE WITH FIRESTOP SCHEDULE.



WALL ASSEMBLY TYPE A | WALL ASSEMBLY TYPE B



PENETRATION DETAIL

NOT TO SCALE

ELECTRICAL JUNCTION BOXES IN RATED WALLS
TOP: ADJACENT ELECTRICAL BOXES
BOTTOM: SHALLOW FIVE SIDED BOX.

4 1 1/2" = 1'-0" **FIRE PENETRATION AT ELECTRICAL BOXES**

PARTITION TYPE NAMING CONVENTION

HEAD

A6AC.S

ASSEMBLY TYPE
STUD OR CMU SIZE
MODIFIERS
FIRE RATING

CEILING

PLAN

BASE

METAL STUD AND CMU SIZES
1 = 1 1/2" FURRING OR 1 5/8" STUD
2 = 2 1/2" STUD
3 = 3 5/8" STUD
4 = 4" STUD OR 4" CMU
6 = 6" STUD OR 6" CMU
7 = 7/8" FURRING
8 = 8" STUD OR 8" CMU

PARTITION MODIFIERS
A = SOUND ATTENUATION BATTS NOT REQUIRED

B = GLASS MAT FACED GYPSUM BOARD (092900.B01) ONE SIDE IN LIEU OF REGULAR GYPSUM BOARD

C = GLASS MAT TILE BACKER BOARD (092900.B04) ONE SIDE WHERE TILE IS SCHEDULED IN LIEU OF REGULAR GYPSUM BOARD

D = GLASS MAT FACED GYPSUM BOARD (092900.B01) ONE SIDE IN LIEU OF REGULAR GYPSUM BOARD, GLASS MAT TILE BACKER BOARD (092900.B04) OTHER SIDE WHERE TILE IS SCHEDULED IN LIEU OF REGULAR GYPSUM BOARD

E = GLASS MAT TILE BACKER BOARD (092900.B04) BOTH SIDES WHERE TILE IS SCHEDULED IN LIEU OF REGULAR GYPSUM BOARD

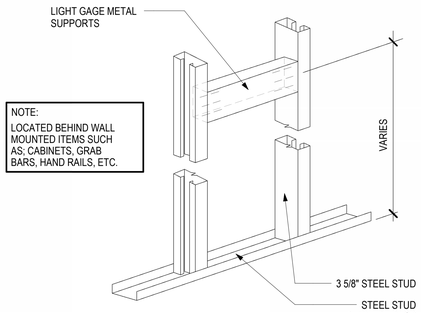
F= GLASS MAT FACED GYPSUM BOARD (092900.B01) BOTH SIDES IN LIEU OF REGULAR GYPSUM BOARD

G = ACOUSTICALLY ENHANCED GLASS MAT FACED GYPSUM BOARD (092900.C08) ONE SIDE IN LIEU OF ACOUSTICALLY ENHANCED GYPSUM BOARD

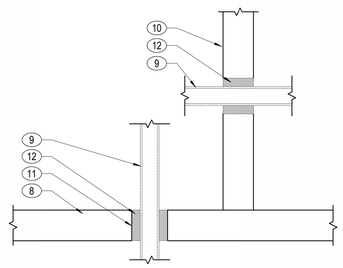
H= GYPSUM BD TO STOP 6" ABOVE CEILING.

J= WALL ASSEMBLY TO STOP 6" ABOVE CEILING. PROVIDE BRACING AS REQUIRED.

FIRE RATING
S = SMOKE RESISTIVE PARTITION
B = SMOKE BARRIER
1 = 1 HR FIRE BARRIER
2 = 2 HR FIRE BARRIER

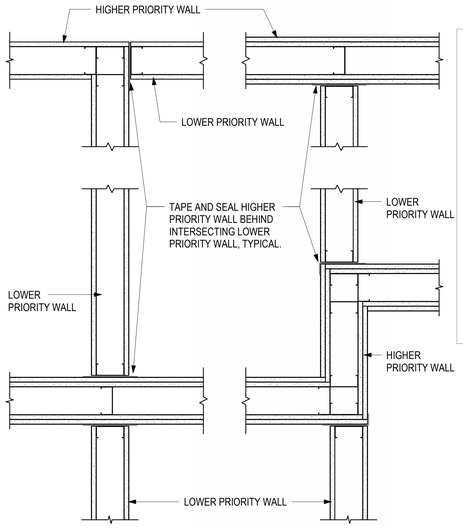


7 1/2" = 1'-0" **WALL BLOCKING DETAIL_TYP**



NOTE: SEE THROUGH-PENETRATION FIRESTOP SYSTEM SCHEDULE FOR SPECIFIC UL DESIGNATION AND DETAIL

6 1 1/2" = 1'-0" **THROUGH-PENETRATION FIRESTOP SYSTEM KEY**



WALL PRIORITY LEGEND

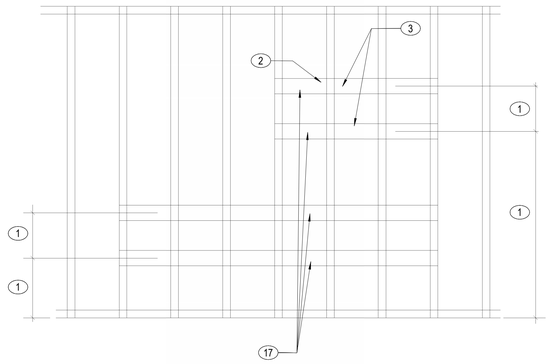
HIGHEST PRIORITY

1. FOUR HOUR RATED SMOKE WALL
2. FOUR HOUR RATED WALL
3. TWO HOUR RATED SMOKE WALL
4. TWO HOUR RATED SHAFT WALL
5. TWO HOUR RATED WALL
6. ONE HOUR RATED SMOKE WALL
7. ONE HOUR RATED HAZARDOUS WALL
8. ONE HOUR RATED WALL OR SHAFT
9. NON-RATED SMOKE TIGHT WALL AT HAZARDOUS AREAS
10. NON-RATED SMOKE TIGHT CORRIDOR WALL
11. NON-RATED WALL TO DECK
12. NON-RATED WALL TO 6" MIN. ABOVE CEILING
13. NON-RATED WALL CLOSING TO CEILING

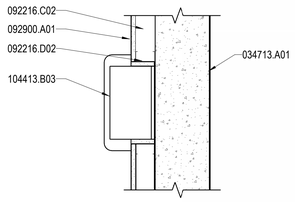
LOWEST PRIORITY

NOTE: SEE PARTITION TYPES FOR COMPONENTS OF WALLS, NUMBER OF LAYERS OF GYPSUM BOARD, TYPE OF GYPSUM BOARD, INSULATION, ETC.

5 1 1/2" = 1'-0" **WALL PRIORITIES**

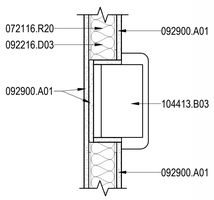


3 3/4" = 1'-0" **CASEWORK BACKING DETAIL**



NOTE: VERIFY CABINET OPENING SIZE AND DEPTH WITH APPLICABLE PRODUCT.

2 1 1/2" = 1'-0" **FIRE EXTINGUISHER CABINET**



NOTE: VERIFY CABINET OPENING SIZE AND DEPTH WITH APPLICABLE PRODUCT.

1 1 1/2" = 1'-0" **FIRE EXTINGUISHER CABINET**

GENERAL NOTES

A REFER TO SHEETS G0.01E FOR GENERAL ABBREVIATIONS AND ARCHITECTURAL SYMBOLS.

B EXTEND FIRE RATED WALL CONSTRUCTION BEHIND RECESSED OR BUILT-IN EQUIPMENT SUCH AS FIRE EXTINGUISHER CABINETS (FEC), ELECTRICAL WATER COOLERS (EWC), ELECTRIC PANELS, ETC.

C PROVIDE AND INSTALL ALL STIFFENERS, BRACING, BACK UP PLATES AND SUPPORTING BRACKETS REQUIRED FOR THE INSTALLATION OF ALL CASEWORK AND OF ALL FLOOR MOUNTED OR SUSPENDED MECHANICAL OR ELECTRICAL EQUIPMENT. REFER TO DETAIL 14/A0.11E.

D WHERE HVAC OR OTHER MECHANICAL, ELECTRICAL OR PLUMBING ITEMS PENETRATE PARTITIONS, STUDS SHALL BE BRACED AND FRAMED TO STRUCTURE AS REQUIRED TO PROVIDE ADEQUATE SUPPORT. ALL PENETRATIONS THROUGH RATED WALLS SHALL BE SEALED TO PROVIDE FIRE, SMOKE, AND /OR ACOUSTICAL ISOLATION OF SPACES WITH APPROPRIATE FIRESTOP MATERIAL. REFER TO FIRE RATED PENETRATION DETAILS, SHEETS A0.10E AND A0.11E.

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F WHERE "SEALANT" IS INDICATED ON WALL TYPES, PROVIDE ACOUSTICAL (SOUND) SEALANT AT NON-RATED WALLS AND FIRE-RATED SEALANT AT RATED WALLS AS REQUIRED BY FIRE RATING TEST NUMBER.

G FOR RATED AND NON-RATED WALL PARTITION SLIP CONNECTION TO FLOOR OR ROOF DECK ABOVE SEE DETAILS ON SHEET A0.11E

H REFER TO STRUCTURAL NOTES FOR TYPICAL CMU WALL REINFORCEMENT AND LINTEL SIZES.

I REFER TO FINISH SCHEDULE SHEETS AF2.10E FOR WALL BASE TYPE, TILE TYPE, TILE HEIGHT AND OTHER MATERIALS APPLIED TO WALLS.

J PROVIDE GLASS MAT FACED GYPSUM BOARD TILE BACKER UNIT AT ALL WALLS THAT RECEIVE TILE.

K REFER TO UL ASSEMBLY LISTED FOR REQUIREMENTS NECESSARY TO ACHIEVE FIRE RATING.

L PROVIDE DRYWALL CONTROL JOINTS AT 30' MAX. JOINTS TO BE LOCATED AT NEAREST DOOR JAMB WHERE POSSIBLE.

M REFER TO SHEET A0.10E FOR TYPICAL RATED WALL PENETRATION DETAILS.

N PROVIDE GLASS MAT FACED GYPSUM BOARD AT THE FOLLOWING LOCATIONS UNO: WALLS AND CEILINGS OF TOILET ROOMS, JANITORS' CLOSETS, WITHIN 48 INCHES OF SINKS AND DRINKING FOUNTAINS, MECHANICAL ROOMS AND INTERIOR CLADDING OF EXTERIOR WALLS.

O FOR RATED AND NON-RATED WALL PARTITION CONNECTION TO FLOOR OR ROOF DECK ABOVE SEE DETAILS ON SHEET A0.11E

SHEET NOTES

1 LOCATE HORIZONTAL SUPPORT MEMBERS WHERE RECOMMENDED BY MANUFACTURER.
2 NOTCH BACK THE FLANGE LEGS AROUND EACH STUD SO THAT THE CHANNEL WEB CAN SIT FLUSH AGAINST THE METAL STUD FACE.
3 UPPER WALL CABINET SUPPORTS.
4 BOTTOM OF DECK.
5 SLIP TRACK, SEE STRUCTURAL FOR ADDITIONAL REQUIREMENTS.
6 CEILING WHERE SCHEDULED ON FINISH SCHEDULE.
7 TOP OF SLAB.
8 FIRE RESISTANT OR SMOKE RATED FLOOR CONSTRUCTION.
9 PENETRANT. REFER TO THROUGHT-PENETRATION FIRESTOP SYSTEM SCHEDULE FOR TYPE.
10 FIRE RESISTANT RATED WALL CONSTRUCTION.
11 PROVIDE PIPE SLEEVE AT ALL FLOOR PENETRATIONS, WHERE AVAILABLE AS AN OPTION IN THE TESTED ASSEMBLY.
12 THROUGH PENETRATION FIRE STOP SYSTEM. PROVIDE SYSTEM IN ACCORDANCE WITH FIRE STOPPING SCHEDULE.
13 1HR OR 2HR FIRE RATED PARTITION IN ACCORDANCE WITH UL.
14 MAXIMUM 16 SQ. IN. MAXIMUM OPENINGS 100 SQ. IN/ 100SF.
15 TELEPHONE OR ELECTRICAL BOX.
16 LAMINATED BACK PIECE TO WALLBOARD.
17 PROVIDE HORIZONTAL CONTINUOUS METAL SUPPORT BRACING ACROSS METAL WALL STUDS BETWEEN AND FLUSH WITH FACE OF STUDS AT LOCATIONS OF ALL WALL HUNG CASEWORK.

MATERIAL LEGEND

034713.A01	TILT-UP CONCRETE WALL PANEL
072116.R20	SOUND ATTENUATION BATTS
078413.Q01	FIRESTOPPING SEALANT
079200.Q01	JOINT SEALANT
079200.Q12	ACOUSTICAL SEALANT
092216.C02	METAL STUD RUNNER TRACK
092216.D02	METAL STUD 2 1/2"
092216.D03	METAL STUD 3 5/8"
092900.A01	GYPSUM BOARD, REGULAR 5/8"
092900.A02	GYPSUM BOARD, FIRE RESISTANT 5/8"
104413.B03	FIRE EXTINGUISHER CABINET, SEMI-RECESSED

0 6" 1' 2'
1½" = 1'-0" GRAPHIC SCALE

0 4" 1' 2' 3' 4' 5'
3/4" = 1'-0" GRAPHIC SCALE

CLIENT

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1481 West 15 Street
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CORE CONSTRUCTION
1641 Worthington Rd
West Palm Beach
FL 33409

PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

STATE OF FLORIDA · JOHNNIE LORIUM JR. · AR 90299 · REGISTERED ARCHITECT

DRAWING HISTORY

No.	DATE	DESCRIPTION

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS / PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPD EVIDENCE & FIRE RANGE BUILDING

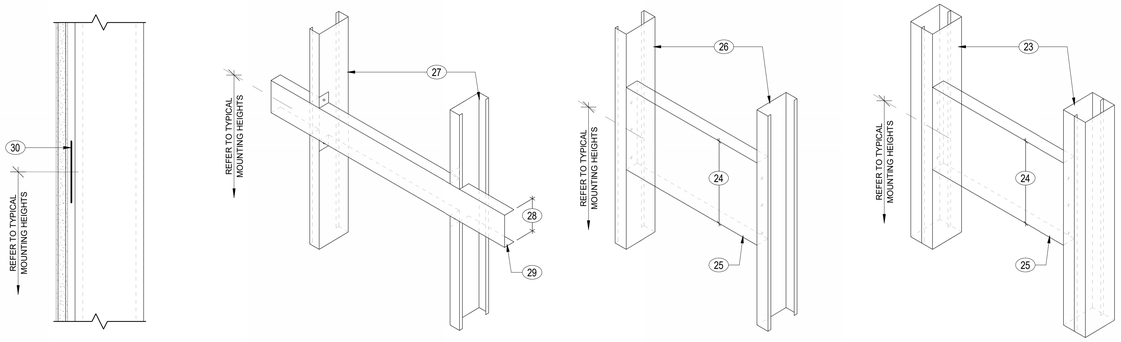
PROJECT LOCATION
2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
PARTITION TYPES & DETAILS

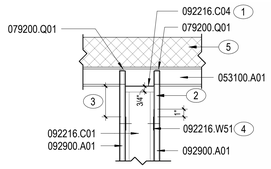
SHEET NUMBER
A0.10E

FILE NAME: Autodesk Docs://_1007657.00 - CORE - City of Riviera Beach D/1007657 - RBPD_Evidence_&_Fire_Range_Building.rvt
DATE STAMP: 10/23/2025 5:40:36 PM

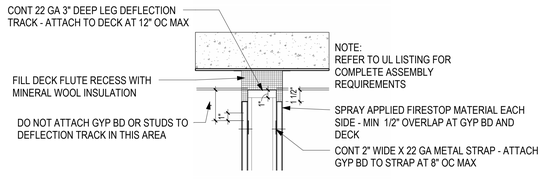


TYPE A TYPE B TYPE C TYPE D

14 3" = 1'-0" ACCESSORY/EQUIPMENT MOUNTING DETAILS

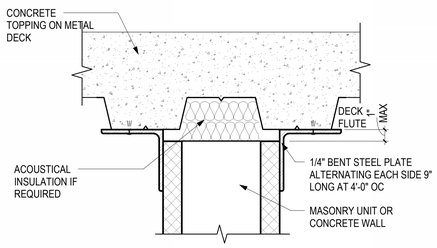


FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PREPENDICULAR OF DIAGONAL TO FLUTES



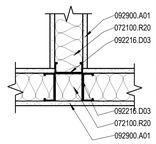
FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PERPENDICULAR OR DIAGONAL TO FLUTES - UL-HW-D-0107

8 3" = 1'-0" RATED PARTITION INTERSECTION

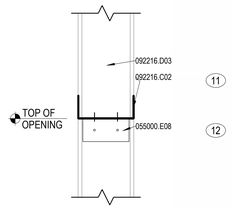


MASONRY PARTITION WALL - NON RATED

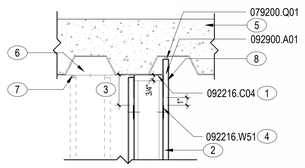
5 1 1/2" = 1'-0" INT. PLAN DETAIL



4 3" = 1'-0" SECTION DETAIL

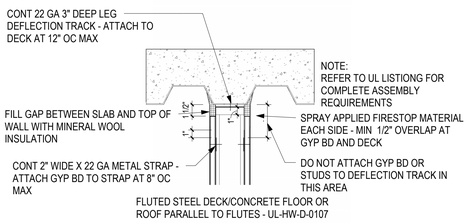


13 1 1/2" = 1'-0" NON-RATED OR SMOKE RESITSTANT



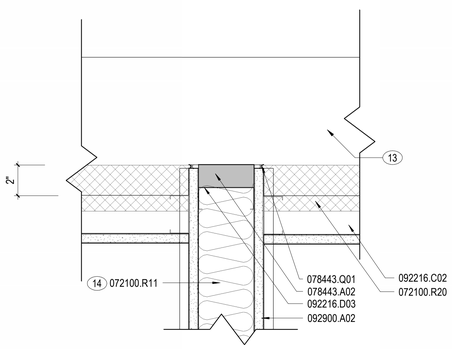
FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PARALLEL TO FLUTES

10 1 1/2" = 1'-0" 1 HR PARTITION HEAD

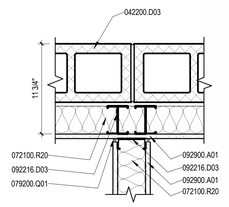


FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PARALLEL TO FLUTES - UL-HW-D-0107

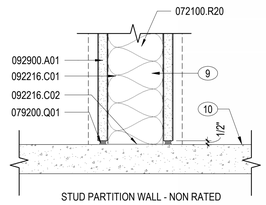
7 3" = 1'-0" HEAD OF WALL DETAIL



3 3" = 1'-0" TYP. SEALANT JOINT

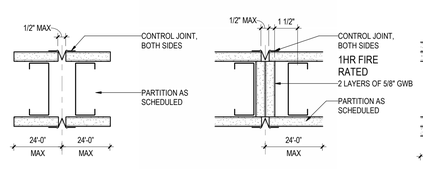


12 1 1/2" = 1'-0" NON-RATED OR SMOKE RESITSTANT



STUD PARTITION WALL - NON RATED

9 1 1/2" = 1'-0" 1 HR PARTITION HEAD

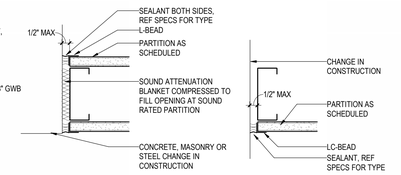


CONTROL JOINT IN GWB PARTITION

CONTROL JOINT IN 1 HR FIRE RATED PARTITION

CONTROL JOINT IN 2 HR FIRE RATED PARTITION

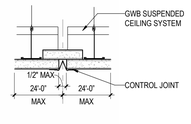
6 3" = 1'-0" RATED PARTITION AT EXT. WALL



CONTROL JOINT AT PARTITION INTERSECTION OR CHANGE IN CONSTRUCTION

CONTROL JOINT IN PARTITION AT NON-EXPOSED EDGE

2 1 1/2" = 1'-0" INT. PLAN DETAIL



CONTROL JOINT IN GYPSUM BOARD CEILING

ADDITIONAL NOTES:

1. BUILDING CODE REQUIRES THAT "SMOKE PARTITIONS" BE SEALED TO STRUCTURE AS INDICATED TO SUCCESSFULLY "LIMIT THE PASSAGE OF SMOKE".
2. CONDITIONS INDICATED TO SHOW DESIGN INTENT, AND NOT INTENDED TO BE PROPRIETARY. CONTRACTOR MAY EMPLOY SIMILAR UL-APPROVED CONTROL JOINTS DESIGNS THAT ARE APPROPRIATE FOR THE SPECIFIC CONDITION. JOINTS TO BE SIZED TO ACCOMMODATE MOVEMENT CAPABILITIES OF FIRESTOP ASSEMBLY.

11 3" = 1'-0" PARTITION SILL DETAIL

1 3" = 1'-0" GYPSUM WALLBOARD CONTROL JOINT DETAILS

GENERAL NOTES

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B EXTEND FIRE RATED WALL CONSTRUCTION BEHIND RECESSED OR BUILT-IN EQUIPMENT SUCH AS FIRE EXTINGUISHER CABINETS (FEC), ELECTRICAL WATER COOLERS (EWC), ELECTRIC PANELS, ETC.

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I REFER TO FINISH SCHEDULE SHEETS AF2.10E FOR WALL BASE TYPE, TILE TYPE, TILE HEIGHT AND OTHER MATERIALS APPLIED TO WALLS.

J PROVIDE GLASS MAT FACED GYPSUM BOARD TILE BACKER UNIT AT ALL WALLS THAT RECEIVE TILE.

K REFER TO UL ASSEMBLY LISTED FOR REQUIREMENTS NECESSARY TO ACHIEVE FIRE RATING.

L PROVIDE DRYWALL CONTROL JOINTS AT 30' MAX. JOINTS TO BE LOCATED AT NEAREST DOOR JAMB WHERE POSSIBLE.

M REFER TO SHEET A0.10E FOR TYPICAL RATED WALL PENETRATION DETAILS.

N PROVIDE GLASS MAT FACED GYPSUM BOARD AT THE FOLLOWING LOCATIONS UNO: WALLS AND CEILINGS OF TOILET ROOMS, JANITORS' CLOSETS, WITHIN 48 INCHES OF SINKS AND DRINKING FOUNTAINS, MECHANICAL ROOMS AND INTERIOR CLADDING OF EXTERIOR WALLS.

O FOR RATED AND NON-RATED WALL PARTITION CONNECTION TO FLOOR OR ROOF DECK ABOVE SEE DETAILS ON SHEET A0.11E

SHEET NOTES

1 CONT 22 GA 3" DEEP LEG DEFLECTION TRACK ATTACH TO DECK AT 12" OC MAX
2 EXTEND AT MINIMUM ONE LAYER UP INTO FLUTE RECESS AND SEAL.
3 DO NOT ATTACH GYP BD OR STUDS TO DEFLECTION TRACK IN THIS AREA
4 CONT 2" WIDE X 22 GA MTL STRAP FOR TOP ATTACHMENT OF GYPSUM BOARD
5 CONCRETE LAYER OR ROOF SYSTEM.
6 WHEN PARTITION IS ALIGNED AT DECK FLUTE RECESS - PROVIDE A 6" X 10" X 22 GA MTL PLATE AT DECK FLUTE RECESS THAT IS CONTIGUOUS WITH PARTITION - ATTACH MTL PLATE TO DECK WITH POWDER DRIVEN FASTENERS AT SAME SPACING REQUIRED FOR PARTITION TOP TRACK.
7 SEAL ONE SIDE OF PARTITION AGAINST PASSAGE OF SMOKE
8 WHERE GYP BD IS CONCURRENT WITH DECK FLUTE RECESS EXTEND UP INTO RECESS AS SHOWN
9 PARTITION AS INDICATED.
10 FINISH FLOOR.
11 20 GA MTL TRACK
12 CLIP ANGLE - 20 GA X 1 1/2" X 1 1/2" X 3" FOR 3 5/8" STUDS AND 5" FOR 6" STUDS EACH SIDE
13 EXTERIOR WALL SYSTEM.
14 2 LAYERS ON BOTH SIDES AT 2HR RATED PARTITIONS.
15 DOOR LOCATION.
16 HOLLOW METAL FRAME.
17 JAMB STUDS.
18 LOWER PRIORITY PARTITION.
19 TAPE AND JOINT COMPOUND.
20 HIGHER PRIORITY PARTITION.
21 PARTITION TYPE AS SCHEDULED
22 LINE OF PARTITION.
23 MIN 20 GA MTL DOUBLE STUDS AT 16" OC TO ALLOW MOUNTING PLATE ATTACHMENT.
24 8" MIN DEEPER IF REQUIRED.
25 14 GA STL RUNNER TRACK-CLIP FLANGES AND FOLD WEB TO FORM ATTACHMENT FLANGE.
26 MIN 20 GA MTL STUDS FACING OPPOSITE DIRECTIONS TO ALLOW MOUNTING PLATE ATTACHMENT.
27 WALL STUDS.
28 3 5/8" MIN, DEEPER IF REQUIRED.
29 20 GA MTL RUNNER TRACK-CLIP FLANGES TO FIT OVER STUDS.
30 CONT 20 GA 4" WIDE MTL BACKING PLATE.

MATERIAL NOTES

042200.D03	CMU 8"
053100.A01	STEEL DECK
055000.E08	ALUMINUM CLIP ANGLE
072100.R11	BLANKET INSULATION, FACED
072100.R20	SOUND ATTENUATION BATTS
078443.A02	FIRESAFING SYSTEM
078443.Q01	FIRE STOPPING SEALANT
079200.Q01	JOINT SEALANT
092216.C01	METAL STUD
092216.C02	METAL STUD RUNNER TRACK
092216.C04	DEFLECTION/FIRESTOP TRACK
092216.D03	METAL STUD 3 5/8"
092216.W51	FLAT HANGER STRAP
092900.A01	GYPSUM BOARD, REGULAR 5/8"
092900.A02	GYPSUM BOARD, FIRE RESISTANT 5/8"

0 2" 4" 8" 1'
3" = 1'-0" GRAPHIC SCALE

0 6" 1' 2'
1½" = 1'-0" GRAPHIC SCALE

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

ARCHITECT OF RECORD

PGAL, Inc.
791 Park of Commerce Blvd.
Suite 400
Boca Raton, FL 33487
T 561 988 4002
www.pgal.com

CONSTRUCTION MANAGER/BUILDER

CORE CONSTRUCTION
1641 Worthington Rd
West Palm Beach
FL 33409

PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

STATE OF FLORIDA — LYNNIE LONDRUM — AR 99289 — REGISTERED ARCHITECT

DRAWING HISTORY

№	DATE	DESCRIPTION

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS / PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPD EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
PARTITION DETAILS

SHEET NUMBER
A0.11E

FILE NAME: Autodesk Docs://_1007657.00 - CORE - City of Riviera Beach D/1007657 - RBPD_Evidence_&_Fire_Range_Building.rvt
DATE STAMP: 10/23/2025 5:40:41 PM

UL DESIGN NO. U419

Design No. U419
BXUV.U419
Fire Resistance Ratings - ANSI/UL 263
Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Listed or Classified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered as Classified, Listed, or Recognized.

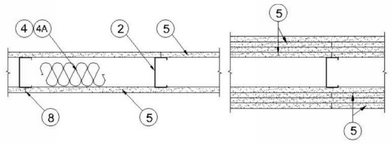
Fire Resistance Ratings - ANSI/UL 263

General Information for Fire Resistance Ratings - ANSI/UL 263

Design No. U419

August 06, 2012

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5)



1. **Floor and Ceiling Runners —** (Not shown) — For use with Item 2 - Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

1A. **Framing Members* - Floor and Ceiling Runners —** Not shown - In lieu of Item 1 — For use with Item 2A, proprietary channel shaped, min. 3-5/8 in. deep, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max. Effective thickness is 0.034 in.

CLARKDIETRICH BUILDING SYSTEMS — UltraSTEEL®.

1B. **Framing Members* - Floor and Ceiling Runners —** (Not shown - In lieu of Item 1) — For use with Item 2A, proprietary channel shaped, min. 2-1/2 in. deep, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling fasteners 24 in. OC. max. Effective thickness is 0.034 in.

CLARKDIETRICH BUILDING SYSTEMS — UltraSTEEL®.

1C. **Framing Members* - Floor and Ceiling Runner —** Not shown - In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™ Track

CRACO MFG INC — SmartTrack™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track

PHILLIPS MFG CO L L C — Viper25™ Track

TELLING INDUSTRIES L L C — Viper25™ Track

1D. **Framing Members* - Floor and Ceiling Runner —** Not shown - In lieu of Item 1 — For use with Item 2D, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

PHILLIPS MFG CO L L C — Viper20™ Track

TELLING INDUSTRIES L L C — Viper20™ Track

1E. **Framing Members*— Floor and Ceiling Runners —** (Not shown) — In lieu of Item 1 - Channel shaped, attached t floor and ceiling with fasteners 24 in. OC. max.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

1F. **Floor and Ceiling Runners —** (Not shown)—For use with Item 2B- Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1G. **Framing Members*— Floor and Ceiling Runners —** (Not shown, As an alternate to Item 1) — For use with Items 2F, 5F or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.

CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMFCWBS L L C — ProTRAK

MBA BUILDING SUPPLIES — ProTRAK

SOUTHEASTERN STUD & COMPONENTS INC — ProTRAK

STEEL STRUCTURAL SYSTEMS L L C — Tri-S ProTRAK

1H. **Framing Members* - Floor and Ceiling Runner —** Not shown - In lieu of Item 1 — For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size, with 1- 1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

SUPER STUD BUILDING PRODUCTS — The Edge

1I. **Framing Members* - Floor and Ceiling Runner —** For use with Item 2H, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max.

STUDCO BUILDING SYSTEMS — CROCSTUD Track

1J. **Floor and Ceiling Runners —** (Not shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.02 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC.

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100.

1K. **Framing Members*— Floor and Ceiling Runners —** (Not shown, As an alternate to Item 1) — For use with Items 2I, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.

TELLING INDUSTRIES L L C — TRUE-TRACK™

2. **Steel Studs —** Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2A. **Framing Members* - Steel Studs —** In lieu of Item 2 - Proprietary channel shaped studs, min. depth as indicated under Item 5, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Stud to be cut 3/4 in. less than assembly height. Allowable use of studs is shown in the table below. For direct attachment of gypsum board only. Effective thickness is 0.034 in.

CLARKDIETRICH BUILDING SYSTEMS — UltraSTEEL®.

2B. **Steel Studs —** (As an alternate to Item 2, For use with Items 5B & 5E) Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

2C. **Framing Members* - Steel Studs —** (As an alternate to Item 2, For use with Items 5C or 5I) - Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installes with a ½ in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™

CRACO MFG INC — SmartStud™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™

PHILLIPS MFG CO L L C — Viper25™

TELLING INDUSTRIES L L C — Viper25™

2D. **Framing Members* - Metal Studs —** Not shown - In lieu of Item 2 — For use with Item 1D, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.020 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

PHILLIPS MFG CO L L C — Viper20™

TELLING INDUSTRIES L L C — Viper20™

2E. **Framing Members*— Steel Studs —** In lieu of Item 2 - For Use with Item 1E- Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

2F. **Framing Members*— Steel Studs —** (Not shown, As an alternate to Item 2) —For use with Items 1G, 5F or 5G or 5I only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD

MBA BUILDING SUPPLIES — ProSTUD

SOUTHEASTERN STUD & COMPONENTS INC — ProSTUD

STEEL STRUCTURAL SYSTEMS L L C — Tri-S ProSTUD

2G. **Framing Members* - Metal Studs —** Not shown - In lieu of Item 2 — For use with Item 1H, proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.

SUPER STUD BUILDING PRODUCTS — The Edge

2H. **Framing Members* - Steel Studs —** Not shown - In lieu of Item 2 - For use with Item 1I. Proprietary channel shaped studs, minimum width indicated under Item 5, Studs to be cut 3/8 to 3/4 in less than the assembly height.

STUDCO BUILDING SYSTEMS — CROCSTUD

2I. **Framing Members*— Steel Studs —** (Not shown, As an alternate to Item 2) —For use with Items 1K, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

TELLING INDUSTRIES L L C — TRUE-STUD™

3. **Wood Structural Panel Sheathing —** (Optional, For use with Item 5 Only.)- (Not Shown) - 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, fastener lengths for gypsum panels increased by min. 1/2 in.

4. **Batts and Blankets* —** (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies.

4A. **Batts and Blankets* —** (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies.

5. **Gypsum Board* —** Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, In. Items 2, 2D, 2E, 2G and 2H	Min Stud Depth, In. Item 2A	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)
1	3-1/2	3-5/8	1 layer, 5/8 in. thick	Optional
1	2-1/2	3-5/8	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	3-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2-1/2	2 layers, 1/2 in. thick	Optional
2	1-5/8	2-1/2	2 layers, 5/8 in. thick	Optional
2	3-1/2	3-5/8	1 layer, 3/4 in. thick	3 in.
3	1-5/8	2-1/2	3 layers, 1/2 in. thick	Optional
3	1-5/8	2-1/2	2 layers, 3/4 in. thick	Optional
3	1-5/8	2-1/2	3 layers, 5/8 in. thick	Optional
4	1-5/8	2-1/2	4 layers, 5/8 in. thick	Optional
4	1-5/8	2-1/2	4 layers, 1/2 in. thick	Optional
4	2-1/2	2-1/2	2 layers, 3/4 in. thick	2 in.

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR ; 3/4 in. thick Types IP-X3 or ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7B, Steel Framing Members*, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

5A. **Gypsum Board* —** (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.

CGC INC — Type SHX.

UNITED STATES GYPSUM CO — Type FRX-G, SHX.

USG MEXICO S A DE C V — Type SHX.

5B. **Gypsum Board* —** (Not Shown) - As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in or ¾ in. thick products are specified. For direct attachment only to steel studs Item 2B, (not to be used with Item 3) - Nom 5/8 in. or ¾ in. may be used as alternate to all 5/8 in. or ¾ in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or ¾ in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12).

RAY-BAR ENGINEERING CORP — Type RB-LBG

5C. **Gypsum Board* —** (For Use With Item 2C) Rating Limited to 1 Hour. 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory.

CGC INC — Type SCX.

UNITED STATES GYPSUM CO — Type SCX, SGX.

USG MEXICO S A DE C V — Type SCX.

5D. **Gypsum Board* —** (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.

UNITED STATES GYPSUM CO — Type USGX.

5E. **Gypsum Board* —** (Not Shown) - (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2B, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Nelco

5F. **Gypsum Board* —** (As an alternate to Item 5) — For use with Items 1G and 2F and limited to 1 Hour Rating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in.

UNITED STATES GYPSUM CO — 5/8 in. thick Type SCX, SGX.

5G. **Gypsum Board* —** (As an alternate to Item 5) — For use with Items 1G and 2F only, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Item 2F	No. of Layers & Thickness of Panel	Min Thkns of Insulation (Item 4)
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR;, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

5H. **Gypsum Board* —** (Not Shown) - (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2B, (not to be used with Item 3) - Nom 5/8 in. or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 11A) or Lead Discs (see Item 12A).

MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

5I. **Gypsum Board* —** (As an alternate to Item 5) - Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5.

CGC INC — Type ULX

UNITED STATES GYPSUM CO — Type ULX

USG MEXICO S A DE C V — Type ULX

5J. **Gypsum Board* —** (Not Shown) - (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2B, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

6. **Fasteners —** (Not shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Two layer systems:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer.**Three-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. **Four-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

6A. **Fasteners —** (Not shown) —For use with Item 2A - Type S or S-12 steel screws used to attach panels to studs (Item 2A). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8-1/2 in. OC with additional screws 1 in. and 2-1/2 in. from edges of the board when panels are horizontally, or 8 in. OC. along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Two layer systems applied vertically:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. **Two layer systems applied horizontally:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC starting 8 in. from each edge of the board with an additional screw placed 1-1/4 in. from each edge of the board. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC starting 8 in. from each edge of the board with an additional screw placed 1-1/4 in. from each edge of the board with screws offset 8 in. from first layer. **Three-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. For all layers, an additional screw shall be placed 1-1/4 in. from each edge of the board. **Four-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. For all layers, an additional screw shall be placed 1-1/4 in. from each edge of the board.

7. **Furring Channels —** (Optional, not shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A and 5E.

7A. **Framing Members* —** (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips.

PAC INTERNATIONAL INC — Types RSIC-1, RSIC-V.

7B. **Framing Members* —** (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below:

a. **Furring Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A and 5E.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.

KINETICS NOISE CONTROL INC — Type Isomax

7C. **Framing Members* —** Optional - Not Shown - Used as an alternate method to attach resilient channels (Item 7). Clips attached at each intersection of the resilient channel and the steel studs (Item 2). Resilient channels are friction fitted into clips, and then clips are secured to the steel stud with min. 1 in. long Type S-12 steel screws through the center hole of the clip and the resilient channel flange.

KEENE BUILDING PRODUCTS CO INC — Type RC Assurance.

UL DESIGN NO. U905

Design No. U905
BXUV.U905
Fire Resistance Ratings - ANSI/UL 263

Page Bottom

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of U Listed or Classified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered as Classified, Listed, or Recognized.

Fire Resistance Ratings - ANSI/UL 263

General Information for Fire Resistance Ratings - ANSI/UL 263

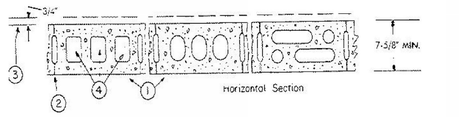
Design No. U905

September 30, 2010

Bearing Wall Rating — 2 HR.

Nonbearing Wall Rating — 2 HR

Load Restricted for Canadian Applications — See Guide BXUV7



1. **Concrete Blocks* —** Various designs. Classification D-2 (2 hr).

See **Concrete Blocks** category for list of eligible manufacturers.

2. **Mortar —** Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. **Portland Cement Stucco or Gypsum Plaster —** Add 1/2 hr to classification if used. Where combustible members are framed in wall, plaster or stucco must be applied on the face opposite framing to achieve a max. Classification of 1-1/2 hr. Attached to concrete blocks (Item 1).

4. **Loose Masonry Fill —** If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellant vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 2 hr to

classification.

5. **Foamed Plastic* —** (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).

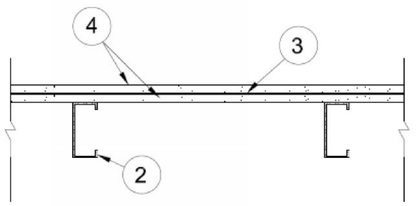
THE DOW CHEMICAL CO — Type Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax IH Insulation, Thermax Plus Liner Panel and Thermax Heavy Duty Plus (HDP)

*Bearing the UL Classification Mark

UL DESIGN NO. V497

Design No. V497

Nonbearing Wall Rating - 1 Hr



1. **Floor and Ceiling Runners —** (Not Shown) — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min width to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

2. **Steel Studs —** Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min 3-5/8 in. wide, min 1-1/4 in. flanges, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

3. **Laminating Compound —** For use with Item 4 - Used to bond outer layer wallboard to inner layer wallboard. Powder type mixed with water in accordance with instructions shown on bags. Applied to entire surface of base layer wallboard. Applied with notched trowel producing continuous beads about 1/4 in. wide and 1/4 in. high.

4. **Gypsum Board* —** Applied to one side of steel studs (Item 2). Two layers of 5/8 in. gypsum panels with beveled, square or tapered edges. Gypsum panels applied vertically with joints centered over studs. Base layer applied with 1 in. Type S screws spaced 24 in. oc. Face layer applied vertically with joints centered over studs and offset from base layer joints by 24 in. Face layer applied with 1-5/8 in. Type S screws spaced 12 in. oc starting with a 6 in. offset from the bottom of the gypsum panel.

NATIONAL GYPSUM CO — 5/8 in. thick Type FSW, FSK, FSW-3, FSW-5, FSW-G, FSK-G, FSW-6, FSW-C, FSMR-C or FSK-C.

4A. **Gypsum Board* —** (As an alternate to Items 3 and 4) - Applied to one side of steel studs (Item 2). Three layers of 5/8 in. gypsum panels with beveled, square or tapered edges. Gypsum panels applied vertically with joints centered over studs. First layer applied with 1 in. Type S screws spaced 24 in. oc. Second layer applied vertically with joints centered over studs and offset from base layer joints by 24 in. Second layer applied with 1-5/8 in. Type S screws spaced 24 in. oc. Face layer applied vertically with joints centered over studs and offset from second layer joints by 24 in. Face layer applied with 2-1/4 in. Type S screws spaced 12 in. oc starting with a 6 in. offset from the bottom of the gypsum panel.

NATIONAL GYPSUM CO — 5/8 in. thick Type FSW, FSK, FSW-3, FSW-5, FSW-G, FSK-G, FSW-6, FSW-C, FSMR-C or FSK-C.

5. **Joint Tape and Compound —** (Not Shown) - Joints covered with joint compound and paper tape. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of out

UL DESIGN NO. D916

Design No. D916

May 16, 2013

Restrained Assembly Ratings — 3/4, 1, 1-1/2, 2 or 3 Hr.

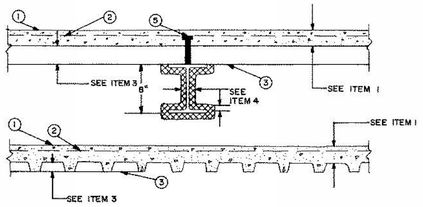
(See Items 1, 6, 7, 8 and 11)

Unrestrained Assembly Rating — 0 Hr. (See Items 3, 4 and 4A)

Unrestrained Beam Ratings — 1, 1-1/2, 2 and 3 Hr.

(See Items 4, 4A, 7 and 11)

Load Restricted for Canadian Applications — See Guide BXUV7



Supports — 8x28 min size steel beams. Or steel joists or joist girders (not shown), composite or noncomposite. Welded or bolted to end supports. Designed per S.J.I. specifications for a max tensile stress of 30 ksi. May be either uncoated or provided with a shop coat of paint. For the 2 h or less Restrained or Unrestrained Beam Ratings, top and bottom chords shall each consist of two angles with a min total area of 0.96 and 0.77 sq in., respectively. Web members shall be either round bars or angles. Min area of the end diagonal web shall be 0.444 sq in. Min area of each of the first six interior diagonal webs shall be 0.406 sq in. All other interior webs shall have a min area of 0.196 sq in. For the 3 h Restrained or Unrestrained Beam Ratings, each of the top and bottom chords shall each consist of two angles with a min total area of 1.74 sq in. Web members shall be either round bars or angles. Min area of each of the first five end diagonal webs shall be 0.886 sq in. All other interior webs shall have a min area of 0.441 sq in. Bridging per S.J.I. specifications is required when noncomposite joists are used. For noncomposite joists, steel filler pieces of proper size, 1 to 2 in. long shall be welded to and between the top chord angles at midway between all top chord panel points.

1. **Normal Weight or Lightweight Concrete —** Normal weight concrete carbonate or siliceous aggregate, 3500 psi compressive strength, vibrated. Lightweight concrete, expanded shale, or slate aggregate by rotary-kiln method, or expanded clay aggregate by rotary-kiln or sintered-grate method, 3000 psi compressive strength, vibrated, 4 to 7 percent entrained air.

Restrained Assembly Rating Hr	Concrete (Type)	Concrete Unit Weight pcf	Concrete Thkns In.
1	Normal Weight	147-153	3-1/2
1-1/2	Normal Weight	147-153	4
2	Normal Weight	147-153	4-1/2
3	Normal Weight	147-153	5-1/4
3/4 or 1 (See Item 6)	Lightweight	107-113	2-1/2
1	Lightweight	107-120	2-5/8
1-1/2	Lightweight	107-113	3
2	Lightweight	107-113	3-1/4
2	Lightweight	107-116	3-1/4*
2	Lightweight	114-120	3-1/2
3	Lightweight	107-113	4-3/16
3	Lightweight	114-120	4-7/16

*For use with 2 or 3 in. steel floor and form units only.

2. **Welded Wire Fabric —** 6 x 6, 10 x 10 SWG.

3. **Steel Floor and Form Units* —** Composite 1-1/2, 1-5/8, 2 or 3 in. deep galv units or 4-1/2 in. deep noncomposite galvanized units. Fluted units may be uncoated or phosphatized/painted. Min gauges are 22 MSG for fluted and 20/20 MSG for cellular units. The following combinations of units may be used:

(1) all 18, 24, 26, 28 or 36 in. wide cellular.

(2) all fluted.

(3) one or two 3 in. deep, 12 in. wide, 18/18 MSG min cellular units, alternating with 3 in. deep fluted or other cellular.

(4) any blend of fluted and 18, 24, 26, 28, or 36 in. wide cellular.

(5) 3 in. deep, 30 in. wide cellular with 8-1/8 in. wide valley along side joints may be used when 3/8 in. diam reinforcing bars are placed 1-1/2 in. to each side of side joints and 1 in. above bottom of unit.

(6) Corrugated, 1-5/16 in. deep, 30 in. wide, 24 MSG min galv units with shear wires factory welded to deck corrugations. Welded to supports 12 in. OC. through welding washers. For shear wire spacing of 8 in. or less the steel deck stress shall not exceed 20 KSI. For shear wire spacing greater than 8 in. OC. but less than or equal to 12 in. OC., steel deck stress shall not exceed 12 KSI.

ASC STEEL DECK, DIV OF ASC PROFILES INC — 24, 30, or 36 in. wide, Types B Hi-Form, BF Hi-Form, N Hi-Form, NF Hi-Form, 2W Hi-Form, 2WF Hi-Form, 3W Hi-Form, 3WF Hi-Form BR Hi-Form, BMOD Hi-Form, BRMOD Hi-Form, DGB Hi-Form, DGBF Hi-Form, DGN Hi-Form, DGN32 Hi-Form, DGNF Hi-Form, DGNF32 Hi-Form, DG2W Hi-Form, DG2WF Hi-Form, DG3W Hi-Form, and DG3WF Hi-Form; 32 in. wide Type N-32, NF32, DGN-32, DGNF32; 24 or 30 in. wide Types ASC2 or ASC3. All units may be galvanized or Prime Shield.

CANAM STEEL CORP — 36 in. wide Type P-3623, P-3606, P-3615 and 24 in wide Type P-2432 composite.

CENTRIA — QL Types, 24 in. wide 3 or 3 inverted, UKX, UKX-3, 2 in. 99, AKX, 21 or 21 inverted, 121, NKX, TKX; 24 or 30 in. wide GKX, GKXH, GKX-A; 36 in. wice 99, AKX, WKX; 24, 26, or 36 in. wide NKX; 1.5NKC, NKC, AKX, 2 or 3 in. TKC; 12 in. wide noncomposite Sec. 12; 17 in. wide 21; 26 or 28 in. wide UKX, 87.5 cm wide. Side Joints of QL, 99, 121, WKX, TKX, TKC, and Metric units - QL-77-900; QLC-78-900 may be welded together 60 in. OC. Side joints of 99, AKX, WKX, GKX, GKX-A, TKX and Metric units - QL-77-900 and QLC-78-900 may be fastened together with min 1 in. long No. 12x14 self-drilling, self-tapping steel screws 36 in. OC.

CHIA TEH CONSTRUCTION MATERIAL CO LTD — 24 or 36 in. wide Mac-Lok 3; 24 in. wide CFD-3.

CANAM STEEL CORP — 24 in. wide, Types 1-1/2 , 2 or 3 in. LOK-Floor and LOK-Floor Cell; 36 in. wide, Types 2 or 3 in. LOK-Floor and LOK-Floor Cell; 24 in. wide, Types N-LOK and N-LOK Cell; 24, 30 or 36 in. wide, Type 1-1/2 in. B-LOK and B-LOK Cell.

CONSOLIDATED SYSTEMS INC — 24 in. wide Types CFD-2, CFD-3; 24, 30 or 36 in. wide Type CFD-1.5; 24 or 36 in. wide Types Mac-Lok 2, Mac-Lok 3; 24 in. wide, Types B2C, B2FC, NC, NFC; 30 in. wide Type B3C; 12 in. wide Mac-Way cellular 45 MOW, 2-633 MTWA, 3-633 MTWA, 2-633MTWV, 3-633MTWV+, 24 in. wide Type Versa-Dek.

DECK WEST INC — 36 in. wide Type B-DW, Inverted B-DW, BA-DW, Inverted BA-DW, 2-DW or 3-DW. Side Joints of Type 2-DW and 3-DW may be fastened together with min 1 in. long No. 12 x 14 self-drilling, self-tapping steel screws 36 in. OC.

DESIGN ASSISTANCE CONSTRUCTION SYSTEMS INC — 36 in. wide Type DACS1.5CD, or 24 in. wide Type DACS2.0CD, or DACS3.0CD.

EPIC METALS CORP — 24 in. wide Types EC150, ECP150, EC300, ECP300, EC366, ECP366, EC150, EC300 inverted, ECA, 30 in. wide Types ECB150, ECBR150; 36 in. wide Type EC266.

GENS METALS INC — 24 or 36 in. wide Types LF2, LF3.

MARLYN STEEL DECKS INC — Type 1.5 CF, 2.0 CF or 3.0 CF.

HAMBRO STRUCTURAL SYSTEMS, DIV OF CANAM STEEL CORP — 36 in. wide, 1-1/2 in. Type P3615HB. The max superimposed loadings for Type P3615HB units shall not exceed 250 PSF. For single spans, the use of the units shall be limited to 5 ft 6 in., 6 ft 0 in. and 6 ft 6 in. max spans for the 22, 20 and 18 gauge units, respectively. For multiple spans, 18 gauge units may be used on a max 7 ft 6 in. spans with a max total superimposed loading of 240 PSF.

KAM INDUSTRIES LTD, DBA CORDECK — 24 in. wide, Types 2 or 3 in. WDR.

MORIN CORP — 24, 30 or 36 in. wide Types LXR-B, LXR-B inverted; 24 or 36 in. wide Type LXR-3W; 36 in. wide Type LXR-2W.

NEW MILLENNIUM BUILDING SYSTEMS L L C — Type 1.5CD, 1.5CDI, 1.5CDR, 2.0CD, or 3.0CD. Units may be phos/painted or galvanized.

ROOF DECK INC — 36 in. wide Types LOK 1 1/2, LOK 1 1/2 R; 24 in. wide Types LOK-2, LOK-3.

VALLEY JOIST — 24 or 36 in. wide Types WVC 1-1/2 or WVC 2.

VERCO DECKING INC - A NUCOR CO — 24, 30 or 36 in. wide Types PLB, B, BR; 24 or 36 in. wide Types PLW2, W2, PLW3, W3; 24 in. wide Types PLN, N. 12 in. wide PLW2, W2, PLW3 or W3 units may be blended with 24 or in. wide PLW2, W2, PLW3 or W3 units, respectively. Units may be phos/ptd.

VICWEST INC — 24 in. wide Type HB306; 32 in. wide Types HB308-INV and HB30V; 36 in. wide Types H8938, HB938CL and HB938-INV.

VULCRAFT, DIV OF NUCOR CORP — 24, 30 or 36 in. wide, Types 1.5VL, 1.5VLI, 1.5VLP, 1.5VLR; 24 or 36 in. wide, Types 1.5VLPA, 2VLI, 3VLI, 3VLP, 3VLPA, 3VLPA. Side joints of Type 1.5VL may be fastened together with min 1 in. long No. 12x14 self-drilling, self-tapping steel screws 36 in. OC max.

Spacing of welds attaching units to supports shall be 12 in. OC for 12, 24, and 36 in. wide units, four welds per sheet for 30 in. wide units, 6 in. OC for 18 in. wide and Sec. 12 units. Unless noted otherwise, adjacent units button-punched or welded together 36 in. OC along side joints. Adjacent 18 in. wide units welded together 30 in. OC along side joints. For **3 Hr. Rating,** units with overlapping type side joints welded together 24 in. OC max.

When a superimposed load of 250 PSF is desired the spacing of welds or button-punches shall not exceed 24 in. OC along side joints.

+12 in. wide, 1-1/2 in. deep Mac-Way units may be blended with 24 in. wide B2C or 30 in. wide B3C units in a blend of one cell to one or more fluted units. 12 in. wide, 2 in. deep Mac-Way units may be blended with 36 in. wide Mac-Lock 2 units in a blend of one cell to one or more fluted units. 12 in. wide, 3 in. deep Mac-Way units may be blended with 36 in. wide Mac-Lock3 units in a blend of one cell to one or more fluted units. The side edge of the fluted unit is placed on the top of the side edge of the Mac-Way unit and the two are welded together with welding washers spaced a max. of 32 in. OC for Mac-Lock 2 or 3 units and a max. of 24 in. OC for the B2C or B3C units.

The Unrestrained Assembly Rating is equal to the Unrestrained Beam Rating for a max of 3 Hr. and is limited to the following units and limitations:

(a) 1-1/2 in. deep, 24 in. wide, 22 MSG or thicker fluted with clear spans not more than 7 ft 8 in.

(b) 1-1/2 in. deep, 24 in. wide, 20 MSG or thicker fluted with clear spans not more than 8 ft 8 in.

(c) 1-1/2 in. deep, 24 in. wide, 16 MSG or thicker fluted and 18/18 MSG or thicker cellular with clear spans not more than 9 ft 11 in.

(d) 3 in. deep, 36 in. wide, 18 MSG or thicker fluted and 24 in. wide, 20/18 MSG or thicker cellular with clear spans not more than 13 ft 2 in.

4. **Spray-Applied Fire Resistive Materials* —** Applied by mixing with water and spraying in one or more coats to a final thickness as shown in the tables below, in the tables below to steel beam surfaces which must be clean and free of dirt, loose scale and oil. Min avg and min ind density of 15/14 pcf respectively. Min avg and min ind density of 19/18 pcf respectively for Type 7GP and 7HD. For method of density determination, refer to Design Information Section.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Spray Applied Fire Resistive Mtl Thkns on Beam In.
1	1	1	1/2
1-1/2	1	1	1/2
1-1/2	1-1/2	1-1/2	13/16
2	1	1	1/2
2	2	2	1-1/16
3	1-1/2	1-1/2	13/16
3	3	3	1-9/16

The thicknesses of Spray-Applied Fire Resistive Materials shown in the table below are applicable when the thickness applied to the beams' lower flange edges is reduced by 1/2 that shown in the table:

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Spray Applied Fire Resistive Mtl Thkns on Beam In.
1	1	1	9/16
1-1/2	1	1	9/16
1-1/2	1-1/2	1-1/2	7/8
2	1	1	9/16
2	2	2	1-3/16
3	1-1/2	1-1/2	7/8
3	3	3	1-3/4

The thicknesses of Spray-Applied Fire Resistive Materials shown in the table below are applicable when the thickness applied to the beams' lower flange edges is reduced by 1/2 that shown in the table and the beams are supporting all fluted floor or form units w/lightweight concrete only:

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Spray Applied Fire Resistive Mtl Thkns on Beam In.
1	1	1	7/16+
1-1/2	1	1	7/16+
1-1/2	1-1/2	1-1/2	3/4
2	1	1	7/16+
2	2	2	1
3	1-1/2	1-1/2	3/4
3	3	3	1-9/16

+Thickness applied to beams' lower flange edge to be 1/4 in. min.

The thickness of material required on the steel joist for the various ratings are shown in the following table:

Restrained or Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Spray Applied Fire Resistive Mtl Thkns on Joist & Bridging In.
1	1	1-1/8
1-1/2	1-1/2	1-3/4
2	2	2-1/4
3	3	2-7/8

W R GRACE & CO - CONN — Types Z- 105, Z-106, Z-106/G, Z-106/HY, Monokote Acoustic 5.

GRACE KOREA INC — Types Z-106, Z-106/G, Z-106/HY, Monokote Acoustic 5.

SOUTHWEST FIREPROOFING PRODUCTS CO — Types 7GP, 7HD.

4B. **Alternate Spray-Applied Fire Resistive Materials —** Applied by mixing with water and spraying in one or more coats to a final thickness as shown in the tables below to steel beam surfaces which must be clean and free of dirt, loose scale and oil. The thicknesses shown in the table below are applicable to beams supporting all fluted floor or form units. Min avg and min ind density of 40/36 pcf, respectively. Min avg and min ind density of 40/36 pcf respectively for Types Z-146, Z-146PC and Z-146T cementitious mixture. Min avg and min ind density of 50/45 pcf respectively for Types Z-156, Z-156T and Z-156PC.

For density determination refer to Design Information Section.

Unrestrained Beam Rating Hr	Restrained Assembly Rating Hr	Concrete Type	Spray Applied Fire Resistive Mtl Thkns on Beam In.
1	1, 1-1/2, 2	LW	9/16
1-1/2	1, 1-1/2, 2, 3	LW	7/8
1	1, 1-1/2, 2	LW	3/4
1-1/2	1, 1-1/2, 2, 3	LW	1

GRACE KOREA INC — Type Z-146 investigated for exterior use

W R GRACE & CO - CONN — Types Z-146, Z-146T, Z146PC, Z-156, Z-156T and Z-156PC investigated for exterior use

5. **Shear-Connector Studs — Optional —** Studs 3/4 in. diam by 3 in. long, for 1-1/2 in. deep form units to 5-1/4 in. long for 3 in. deep form units, headed type or equivalent per AISC specifications. Welded to the top flange of the beam through the steel form units.

6. **Electrical Inserts —** (Not shown) Classified as **"Outlet Boxes and Fittings Classified for Fire Resistance."**

CENTRIA — Preset Inserts

For use with 2-1/2 in. lightweight concrete topping over QL-WKX steel floor units. Installed over factory-punched holes in floor units per accompanying installation instructions.

Spacing shall not be more than one insert in each 14 sq ft. of floor area with spacing along floor units not less than 48 in. OC. The holes cut in insert cover for passage of wires shall be no more than 1/8 in. larger diam. than wire. Restrained Assembly Rating is 3/4 hr with Tapmate II-FS-1 and 1 hr with Tapmate II-FS-2 inserts.

CENTRIA — Tapmate II-FS-1, II-FS-2; Series KEB.

(2) **Wiremold Co.** — After set Inserts.

Single-service after set inserts installed per accompanying installation instructions in 2-1/2 in. diam hole core-drilled through min 3-1/4 in. thick concrete topping to top of cell of any min 3 in. deep cellular steel floor unit specified under Item 3. Spacing shall be no more than one insert in each 10 sq ft of floor area in each span with a min center to center spacing of 16 in. If the high potential and low potential raceways of the cellular steel floor unit are separated by a valley filled with concrete, the center to center spacing of the high potential and low potential single-service after set inserts may be reduced to a min of 7-1/2 in. Restrained Assembly Rating is 2 hr or less with internally protected type 436 after set insert with Type M4-, M6- or M8- Series single-service activation fitting.

WIREMOLD CO — Internally protected Type 436 after set Insert with Type M4-, M6- or M8- Series single-service activation fitting.

7. **Mineral and Fiber Boards* —** (Optional, not shown). Applied over concrete floor with no restriction on board thickness. When mineral and fiber boards are used, the unrestrained beam rating shall be increased by a minimum of 1/2 hr.

See Mineral and Fiber Board (CERZ) category for names of manufacturers.

8. **Roof Covering Materials* —** (Optional, not shown)Consisting of materials compatible with insulations described herein which provide Class A, B or C coverings. See Built-Up Roof Covering Materials in Building Materials Directory.

9. **Insulating Concrete —** (not shown) Optional. Various types of insulating concrete prepared and applied in the thickness indicated:

A. **Vermiculite Concrete —** (not shown) Optional.

1. Blend 6 to 8 cu. ft. of Vermiculite Aggregate* to 94 lb. Portland Cement and air entraining agent. Min thickness of 2 in. as measured to the top surface of the structural concrete or foamed plastic (Item 10) when it is used.

ELASTIZELL CORP OF AMERICA

SIPLAST INC

VERMICULITE PRODUCTS INC

2. Blend 3.5 cu. ft. of Type NVC Concrete Aggregate* or Type NVS Vermiculite Aggregate* coat, 1/8 in. thickness beneath foamed plastic (Item 10) when used, 1 in. min topping thickness.

SIPLAST INC

VERMICULITE PRODUCTS INC

Vermiculite concrete may be covered with Roof Covering Materials (Item 8).

B. **Cellular Concrete — Roof Topping Mixture* —** concentrate mixed with water and Portland cement per manufacturers specifications. Min. thickness of 2-in. as measured to the top surface of the structural concrete or foamed plastic (Item 10) when used. Cast dry density and 28— day min. compressive strength of 190 psi as determined with ASTM C495— 66.

CELCORE INC — Type Celcore with cast dry density of 31 (+ or - 3.0) pcf or Type Celcore MF with cast dry density of 29 (+ or - 3.0) pcf.

CELLULAR CONCRETE L L C — Cast dry density of 37 (+ or -) 3.0 pcf.

ELASTIZELL CORP OF AMERICA — Type II. Mix #1 of cast dry density 39 (+ or -) 3.0 pcf, Mix #2 of cast dry density 40 (+ or -) 3.0 pcf, Mix #3 of cast dry density 47 (+ or -) 3.0 pcf.

C. **Cellular Concrete-Roof Topping Mixture* —** Concentrate mixed with water and Portland cement per manufacturers specifications. 28-day min. compressive strength of 190 psi as determined with ASTM C495-66.

LITE-CRETE INC — Cast dry density of 29 (+ or -) 3.0 pcf.

SIPLAST INC — Mix No. 1 or 2. Cast dry density of 32+3 (Mix No. 1) or 36+3 (Mix No. 2) pcf.

D. **Perlite Concrete —** 6 cu ft. of Perlite Aggregate* to 94 lb of Portland Cement and 1-1/2 pt air entraining agent. Min. thickness 2 in. as measured to the top surface of structural concrete or foamed plastic (Item 10A) when it is used.

See Perlite Aggregate (CFFX) in Fire Resistance Directory for names of manufacturers.

E. **Cellular Concrete — Roof Topping Mixture* —** Foam Concentrate mixed with water, Portland Cement and UL Classified Vermiculite Aggregate per manufacturer's application instructions. Cast dry density of 33 (+ or -) 3.0 pcf and 28-day compressive strength of min 250 psi as determined in accordance with ASTM C495-86.

CELLULAR CONCRETE L L C — Mix No. 3.

SIPLAST INC — Mix No. 3.

F. **Floor Topping Mixture* —** (Optional, not shown) — Approx 4.5 gal of water to 41 lbs of NVS Premix floor topping mixture. Slurry coat 1/8 in. thickness beneath foamed plastic (Item 10) when used , 1 in. min topping thickness.

SIPLAST INC

Floor Topping Mixture may be covered with Built-Up or Single Membrane Roof Covering.

10. **Foamed Plastic* —** (optional — Not Shown) For use only with vermiculite ((Item 9A) or cellular ((Item 9C) concretes — Rigid polystyrene foamed plastic insulation having slots and/or holes sandwiched between vermiculite concrete slurry which is applied to the normal or lightweight concrete surface and vermiculite concrete topping ((Item 9A).

SIPLAST INC

VERMICULITE PRODUCTS INC

10A. **Foamed Plastic* —** For use only with cellular concrete. Nominal 24 by 48 in. polystyrene foamed plastic insulation boards having a density of □.0 + 0.1 pcf encapsulated within cellular concrete topping (Item 9B). Each insulation board shall contain six nominal 3 in. diameter holes oriented in two rows of three holes each with the holes spaced 12 in. OC, transversely and 16 in. OC longitudinally.

See Foamed Plastic* (BRYX) category in Building Materials Directory or Foamed Plastic* (CCVW) category in Fire Resistance Directory for list of manufacturers.

11. **Foamed Plastic* —** (Optional, not shown). Polyisocyanurate roof insulation, applied over concrete floor with no restriction on insulation thickness. When polyisocyanurate insulation is used, the unrestrained beam rating shall be increased by a minimum of 1/2 hr.

12. **Metal Lath —** (Not Shown) — (Required with Z-146, Z-146T, Z146PC, Z-156, Z-156T and Z-156PC, otherwise optional) - Metal lath may be used to facilitate the spray application of Spray-Applied Fire Resistive Materials on steel bar joist and trusses. The diamond mesh, 3/8 in. expanded steel lath, 1.7 to 3.4 lb per sq yd is secured to both sides of each steel joist with No. 18 SWG galv steel wire at joist web and bottom chord members spaced 15 in. OC max. When used, the metal lath is to be fully covered with Spray-Applied Fire Resistive.

See **Foamed Plastic** (CCVW) category for list of manufacturers.

*Bearing the UL Classification Mark

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

ARCHITECT OF RECORD

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791 Park of Commerce Blvd.
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CONSTRUCTION MANAGER/BUILDER

CORE CONSTRUCTION
1641 Worthington Rd
West Palm Beach
FL 33409

PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

STATE OF FLORIDA — JOHNNIE LONDRIM JR. — AR 90289 — REGISTERED ARCHITECT

CONSULTANT

DRAWING HISTORY

No.	DATE	DESCRIPTION

PROJECT STATUS

90% CONSTRUCTION DOCUMENTS / PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RBPD EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION

2125 AVENUE S,
RIVIERA BEACH, FL
33404

PROJECT NUMBER

1007657.00

SHEET TITLE

UL ASSEMBLIES

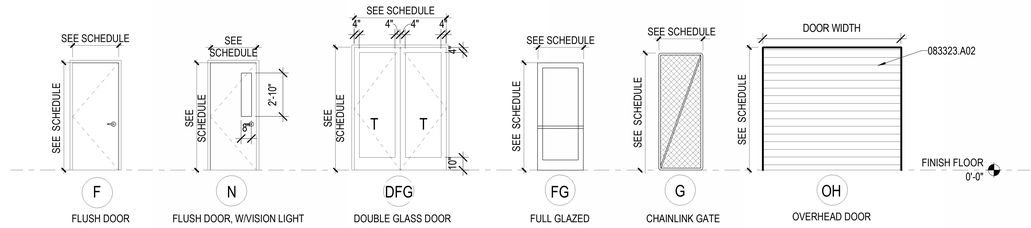
SHEET NUMBER

A0.13E

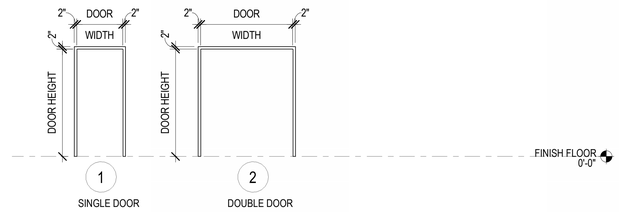
FILE NAME: Autodesk Docs:// 1007657.00 - CORE_ City of Riviera Beach D/1007657 - RBPD_Evidence_&_Fire_Range_Building.rvt
DATE STAMP: 10/23/2025 5:40:45 PM

DOOR SCHEDULE

DOOR NO.	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR MATERIAL	FRAME TYPE	FRAME MATERIAL	FIRE RATING	DOOR HARDWARE	DETAIL - HEAD	DETAIL - JAMB	DETAIL - SILL	REMARKS
E101.A	22' - 0"	14' - 0"	OH	STL	MFR	STL	--	MFR	8/A0.30E	6/A0.30E	2/A0.30E	
E101.B	14' - 0"	14' - 0"	OH	STL	MFR	STL	--	MFR	8/A0.30E	6/A0.30E	2/A0.30E	
E101.C	3' - 0"	8' - 0"	N	HM	1	HM	--	E3.0	7/A0.30E	5/A0.30E	4/A0.30E	
E101.D	3' - 0"	10' - 0"	G	STL	MFR	STL	--	MFR		7/A0.35E		
E101.E	3' - 0"	10' - 0"	G	STL	MFR	STL	--	MFR		7/A0.35E		--
E101.F	3' - 0"	8' - 0"	F	HM	1	HM	--	E3.0	2/A0.35E	6/A0.35E		
E102.A	3' - 0"	8' - 0"	N	HM	1	HM	--	E3.0	7/A0.30E	5/A0.35E	4/A0.30E	
E102.B	14' - 0"	14' - 0"	OH	STL	MFR	STL	--	MFR	8/A0.30E	6/A0.30E	2/A0.30E	
E102.C	3' - 0"	7' - 0"	N	HM	1	HM	45-MIN	E20.0	3/A0.30E	1/A0.30E		
E102.D	12' - 0"	14' - 0"	OH	STL	MFR	STL	--	MFR	8/A0.30E	6/A0.30E		
E103	3' - 0"	7' - 0"	F	HM	1	HM	20-MIN	E14.0	13/A0.35E	9/A0.35E		
E104	3' - 0"	7' - 0"	F	HM	1	HM	--	E15.0	13/A0.35E	9/A0.35E		
E105.A	3' - 0"	8' - 0"	N	HM	1	HM	--	E3.0	7/A0.30E	5/A0.30E	4/A0.30E	
E105.B	14' - 0"	14' - 0"	OH	STL	MFR	STL	--	MFR	8/A0.30E	6/A0.30E	2/A0.30E	
E105.C	3' - 0"	7' - 0"	F	HM	1	HM	45-MIN	E7.0	1/A0.35E	5/A0.35E		
E106	6' - 0"	7' - 0"	FG	AL	S1	AL		E1.0	14/A0.35E	3/A0.35E		
E107	3' - 0"	7' - 0"	F	HM	1	HM	--	E15.0	13/A0.35E	9/A0.35E		
E108	6' - 0"	7' - 0"	FF	HM	2	HM	--	E11.0	13/A0.35E	9/A0.35E		
E109	6' - 0"	8' - 0"	F	HM	2	HM	--	E4.0	7/A0.30E	5/A0.30E	4/A0.30E	
E110	3' - 0"	8' - 0"	F	HM	1	HM	--	E5.0	7/A0.30E	5/A0.30E	4/A0.30E	
E111	6' - 0"	7' - 0"	DFG	AL	S2	AL	--	E1.0	14/A0.35E	3/A0.35E	10/A0.35E	
E111.B	3' - 0"	7' - 0"	N	HM	1	HM	45-MIN	E20.0	7/A0.30E	5/A0.30E		
E112	3' - 0"	7' - 0"	F	HM	1	HM	20-MIN	E14.0	13/A0.35E	9/A0.35E		
E113.A	4' - 0"	7' - 0"	N	HM	1	HM	45-MIN	E22.0	13/A0.35E	9/A0.35E		BULLET RESISTANT, 180 DOOR
E113.B	4' - 0"	7' - 0"	N	HM	1	HM	20-MIN	E22.0	7/A0.30E	5/A0.30E		BULLET RESISTANT
E114	3' - 0"	7' - 0"	N	HM	1	HM	--	E17.0	13/A0.35E	9/A0.35E		
E115	3' - 0"	7' - 0"	N	HM	HM1	HM	45-MIN	E17.0	1/A0.35E	5/A0.35E		
E116	3' - 0"	7' - 0"	F	HM	1	HM	--	E15.0	13/A0.35E	9/A0.35E		
E117	3' - 0"	7' - 0"	F	HM	1	HM	--	E15.0	13/A0.35E	9/A0.35E		
E118	3' - 0"	7' - 0"	F	HM	1	HM	--	E16.0	13/A0.35E	9/A0.35E		
E119.A	3' - 0"	7' - 0"	N	HM	1	HM	--	E20.0	13/A0.35E	9/A0.35E		
E119.B	3' - 0"	7' - 0"	N	HM	1	HM	45-MIN	E6.0	7/A0.30E	5/A0.30E		BULLET RESISTANT
E120	3' - 0"	7' - 0"	N	HM	1	HM	--	E17.0	13/A0.35E	9/A0.35E		
E121	3' - 0"	7' - 0"	N	HM	1	HM	--	E17.0	13/A0.35E	9/A0.35E		

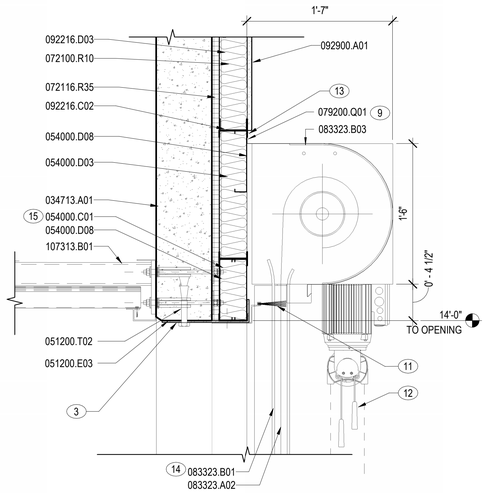


NOTE: SEE DOOR SCHEDULE FOR DIMENSIONS OF DOOR OPENINGS

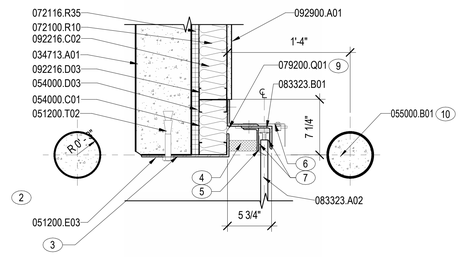


NOTE: SEE DOOR SCHEDULE FOR DIMENSIONS OF DOOR OPENINGS

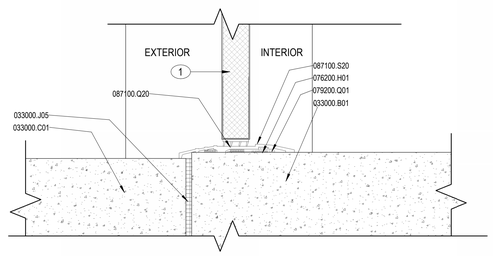
9 DOOR AND DOOR FRAME LEGEND
1/4" = 1'-0"



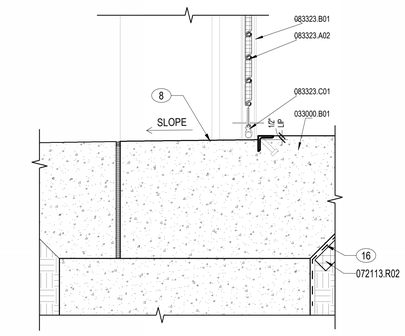
8 HEAD DETAIL
1 1/2" = 1'-0"



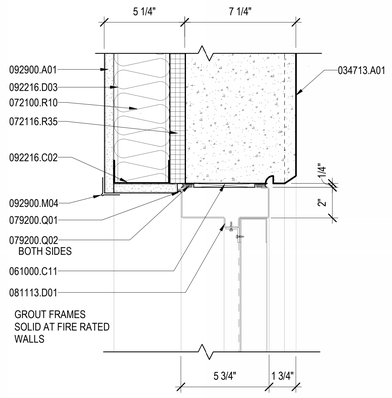
6 OVERHEAD DOOR JAMB DETAIL
1 1/2" = 1'-0"



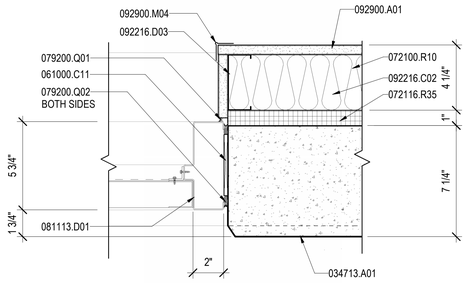
4 DOOR THRESHOLD
3" = 1'-0"



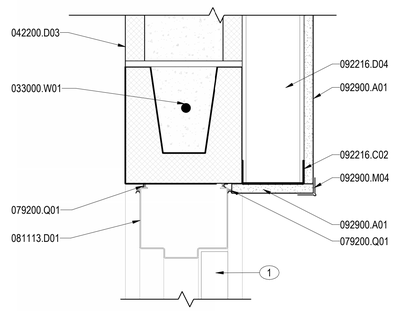
2 TYPICAL COILING DOOR SILL DETAIL
1 1/2" = 1'-0"



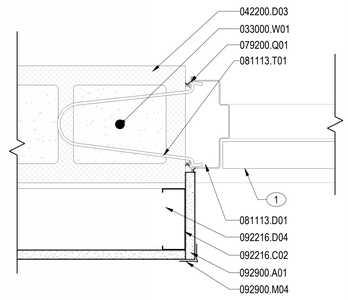
7 HOLLOW METAL DOOR HEAD1
3" = 1'-0"



5 HOLLOW METAL DOOR JAMB
3" = 1'-0"



3 DOOR - TYPICAL CMU HEAD
3" = 1'-0"



1 DOOR - TYPICAL CMU JAMB
3" = 1'-0"

GENERAL NOTES

1. ROOM AND DOOR REFERENCE NUMBERS ARE FOR CONSTRUCTION COORDINATION ONLY. CONTRACTOR SHALL COORDINATE WITH OWNER FOR FINAL ROOM & DOOR IDENTIFICATION.
2. DO NOT SCALE DIMENSIONS FROM DRAWINGS, ANY UNKNOWN DIMENSION SHALL BE OBTAINED FROM DESIGN PROFESSIONALS VIA REQUEST FOR INFORMATION (RFI).
3. ALL DIMENSIONS ARE TO FACE OF STUD, GRID LINES AND FACE OF MASONRY INFILL WALL U.N.O. ALL DIMENSIONS TO EXISTING WALLS ARE TO FACE OF WALL ASSEMBLY U.N.O.
4. ALL 36" WIDE INTERIOR SWING DOORS SHALL BE LOCATED 2'-0" FROM CENTER OF DOOR TO PERPENDICULAR SURFACE OF ADJACENT WALL AT DOOR JAMB U.N.O.
5. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
6. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFORMATION BEFORE EXECUTION OF WORK.
7. REFER TO WALL TYPE SCHEDULE FOR ADDITIONAL INFORMATION.
8. ALL SHAFTS PENETRATING SLAB SHALL BE RATED 2HR.
9. CONTRACTOR SHALL FIELD COORDINATE LOCATION, SIZE AND TYPE OF BLOCKING FOR INSTALLATION OF SIGNAGE, PLUMBING FIXTURES, MILLWORK, ETC. ALL CONCEALED WOOD SHALL BE FIRE RETARDANT TREATED (F.R.T).
10. PROVIDE IN-WALL REINFORCEMENT FOR ALL WALL MOUNTED FURNITURE AND EQUIPMENT AS REQUIRED.

SHEET NOTES

1. REFER TO DOOR SCHEDULE FOR SPECIFIC DOOR TYPE.
2. CONCRETE-FILLED STEEL BOLLARD, IMPACT-RATED. REFER TO STRUCTURAL DRAWINGS.
3. 1/8" MIN. SILICONE BEAD.
4. COMPLETELY SEAL GUIDE AREA WITH A 1-1/2" FOAM STRIP. RUN FOAM STRIP FROM FLOOR TO UNDERSIDE OF LINTEL SEAL.
5. VINYL WEATHER SEAL. RUN WEATHER SEAL FROM TOP TO BOTTOM OF GUIDE.
6. 1/4" STEEL BRACKET PLATE ABOVE.
7. WEAR STRIPS, TYP.
8. LEVEL CONCRETE AT THE SLOPED OPENING TO MAINTAIN A PROPER SEAL AT THE DOOR BOTTOM WEATHERSEAL.
9. PROVIDE CONTINUOUS AIRTIGHT SEALANT AT JOINTS BETWEEN WALL AND DOOR JAMB GUIDES, WALL AND HOOD PERIMETER
10. CONCRETE-FILLED STEEL BOLLARD, IMPACT-RATED. REFER TO DETAIL D6/AE541.
11. "Z"-TYPE LINTEL SEAL WITH 3/4" BRUSH.
12. AUXILIARY HAND CHAIN.
13. 1-1/2" TOP HOOD BEAD.
14. 22/24 GA INSULATED, FLAT SLATS. PROVIDE 15/16" THICK SLATS WITH 7/8" INSULATION WITHIN.
15. BOX HEADER.
16. UNDERSLAB VAPOR BARRIER

MATERIAL NOTES

033000.B01	CONCRETE SLAB
033000.C01	CONCRETE WALK
033000.J05	PREFORMED JOINT FILLER
033000.W01	REINFORCING STEEL
034713.A01	TILT-UP CONCRETE WALL PANEL
042200.D03	CMU 8"
051200.E03	STEEL PLATE, BENT
051200.T02	ANCHOR BOLT
054000.C01	METAL STUD RUNNER TRACK
054000.D03	METAL STUD 3 5/8"
054000.D08	METAL STUD 8"
055000.B01	STEEL BOLLARD
061000.C11	PRESSURE TREATED WOOD BLOCKING
072100.R10	BLANKET INSULATION, UNFACED
072113.R02	PERIMETER INSULATION
072116.R35	GLASS-FIBERBOARD INSULATION
076200.H01	METAL FLASHING
079200.Q01	JOINT SEALANT
079200.Q02	BACKSTOP AND SEALANT
081113.D01	HOLLOW METAL FRAME
081113.T01	MASONRY ANCHOR
083323.A02	INSULATED OVERHEAD COILING DOOR
083323.B01	COILING DOOR GUIDES
083323.B03	COILING DOOR HOOD
083323.C01	BOTTOM BAR/WEATHER SEAL
087100.Q20	WEATHERSTRIPPING
087100.S20	THRESHOLD
092216.C02	METAL STUD RUNNER TRACK
092216.D03	METAL STUD 3 5/8"
092216.D04	METAL STUD 4"
092900.A01	GYPSUM BOARD, REGULAR 5/8"
092900.M04	CORNERBEAD
107313.B01	DOOR CANOPY SYSTEM

0 2" 4" 8" 1'
3" = 1'-0" GRAPHIC SCALE

0 6" 1' 2'
1½" = 1'-0" GRAPHIC SCALE

CLIENT

CITY OF RIVIERA BEACH
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Riviera Beach, FL 33404

ARCHITECT OF RECORD

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PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

STATE OF FLORIDA
TIMMIE LONDRUM
AR 96098
REGISTERED ARCHITECT

DRAWING HISTORY

No.	DATE	DESCRIPTION

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS / PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPD EVIDENCE & FIRE RANGE BUILDING

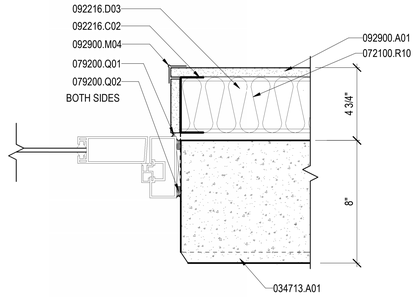
PROJECT LOCATION
2125 AVENUE S,
RIVIERA BEACH, FL
33404

PROJECT NUMBER
1007657.00

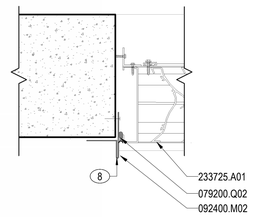
SHEET TITLE
DOOR SCHEDULES, TYPES, & FRAMES

SHEET NUMBER
A0.30E

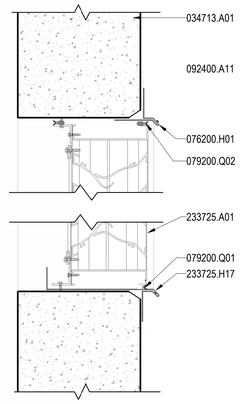
FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/1007657 - RBPD_Evidence_&_Fire_Range_Building.rvt
DATE STAMP: 10/23/2025 5:40:50 PM



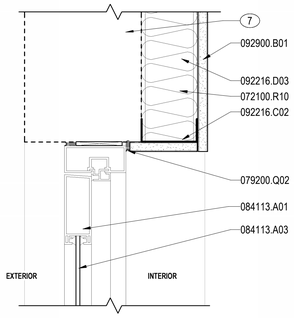
12 3" = 1'-0" **DOOR JAMB - STOREFRONT, EXT**



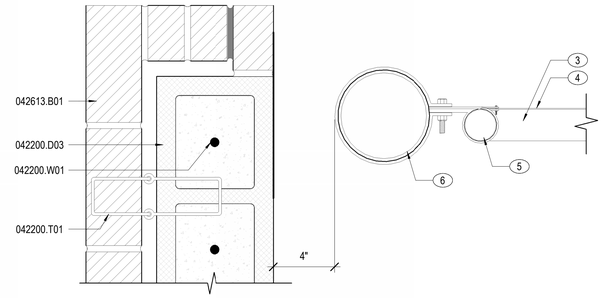
8 3" = 1'-0" **LOUVER JAMB DETAIL**



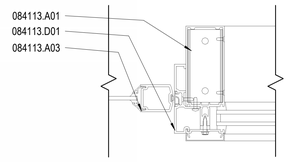
4 3" = 1'-0" **LOUVER HEAD AND SILL DETAIL**



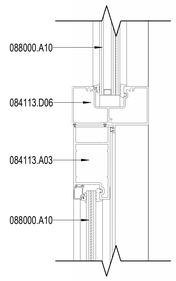
11 3" = 1'-0" **DOOR HEAD - STOREFRONT, EXT**



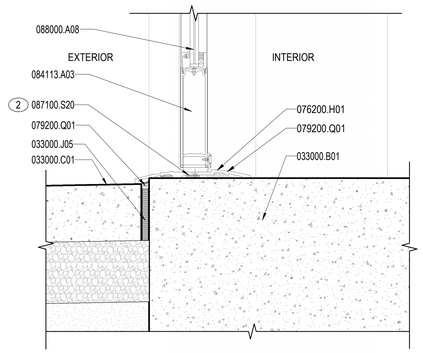
7 3" = 1'-0" **DUMPSTER GATE, JAMB**



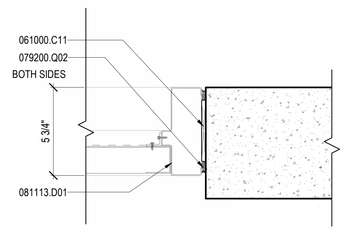
3 3" = 1'-0" **STOREFRONT MULLION / DOOR**



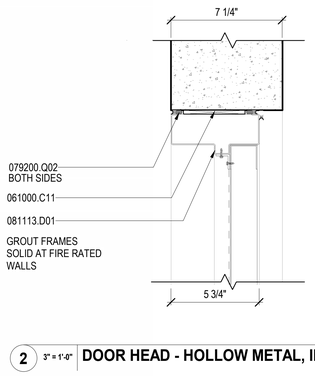
14 3" = 1'-0" **STOREFRONT DOOR HEADER**



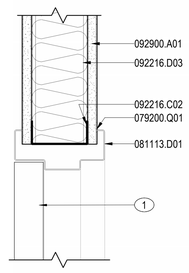
10 3" = 1'-0" **SILL DETAIL**



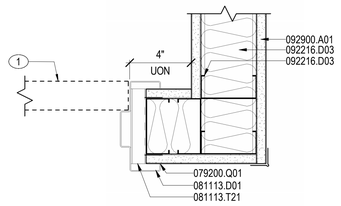
6 3" = 1'-0" **DOOR JAMB - HOLLOW METAL, INT**



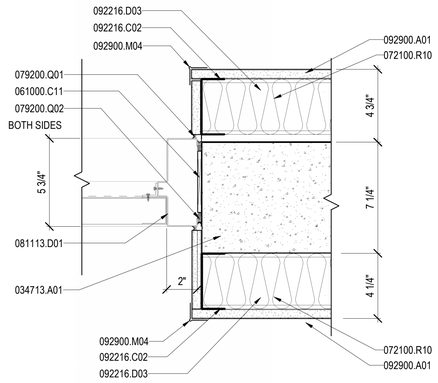
2 3" = 1'-0" **DOOR HEAD - HOLLOW METAL, INT**



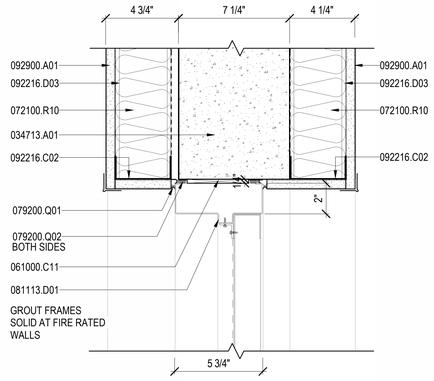
13 3" = 1'-0" **DOOR TYPICAL DOOR HEAD**



9 3" = 1'-0" **TYPICAL DOOR OFFSET ROOM CORNER**



5 3" = 1'-0" **DOOR JAMB - HOLLOW METAL, INT**



1 3" = 1'-0" **DOOR HEAD - HOLLOW METAL, INT 2 SIDED GYP**

GENERAL NOTES

A REFER TO SHEETS G0.01E FOR GENERAL ABBREVIATIONS AND ARCHITECTURAL SYMBOLS.

B REFER TO SHEET A0.30E FOR DOOR SCHEDULES & TYPICAL DOOR DETAILS.

C ALL WINDOW PROFILES ARE GENERIC. REFER TO SPECIFICATIONS SECTIONS FOR PERFORMANCE REQUIREMENTS. SEE SECTION 084113 FOR STOREFRONT WINDOW, 084229 FOR AUTOMATIC ENTRANCE, 084413 FOR CURTAIN WALL, 085113 FOR ALUMINUM WINDOW.

D ALL INTERIOR GLAZING SHALL BE CLEAR, TEMPERED GLASS 088000.A04 UNO.

E ALL EXTERIOR GLAZING SHALL BE TINTED INSULATING GLASS, CLASS 'E' IMPACT RATED FOR RISK CATEGORY IV ESSENTIAL BUILDINGS. 088000.A09 UNO.

SHEET NOTES

1 REFER TO DOOR SCHEDULE FOR SPECIFIC DOOR TYPE.

2 SET ON A CONTINUOUS BED OF SEALANT. CAULK ENDS OF THRESHOLD. SECURE THRESHOLD TO CONCRETE FLOOR WITH CONCRETE ANCHORS.

3 CHAIN LINK FENCE GATE SYSTEM. REFER TO CIVIL FOR CHAIN LINK SPECIFICATION INFORMAITON.

4 CHAINLINK FABRIC INFILL.

5 TENSION ROD.

6 END POST.

7 EXTERIOR WALL, SEE PLANS

8 METAL FLASHING SET ON SEALANT

MATERIAL NOTES

033000.B01	CONCRETE SLAB
033000.C01	CONCRETE WALK
033000.J05	PREFORMED JOINT FILLER
034713.A01	TILT-UP CONCRETE WALL PANEL
042200.D03	CMU 8"
042200.T01	MASONRY ANCHOR
042200.W01	REINFORCING STEEL
042613.B01	BRICK VENEER MASONRY
061000.C11	PRESSURE TREATED WOOD BLOCKING
072100.R10	BLANKET INSULATION, UNFACED
076200.H01	METAL FLASHING
079200.Q01	JOINT SEALANT
079200.Q02	BACKSTOP AND SEALANT
081113.D01	HOLLOW METAL FRAME
081113.T21	METAL STUD ANCHOR
084113.A01	GLAZED ALUMINUM STOREFRONT SYSTEM
084113.A03	FULL GLAZED STILE AND RAIL DOOR
084113.D01	ALUMINUM DOOR FRAME
084113.D06	ALUMINUM FRAME
087100.S20	THRESHOLD
088000.A08	CLEAR LAMINATED GLASS
088000.A10	CLEAR INSULATING GLASS UNIT
092216.C02	METAL STUD RUNNER TRACK
092216.D03	METAL STUD 3 5/8"
092400.A11	SELF FURRING DIAMOND MESH LATH
092400.M02	DRIP EDGE TRIM
092900.A01	GYPSUM BOARD, REGULAR 5/8"
092900.B01	GYPSUM BOARD, GLASS MAT FACED 5/8"
092900.M04	CORNERBEAD
233725.A01	EXTRUDED ALUMINUM WALL LOUVER
233725.H17	SILL FLASHING WITH END DAMS

0 2" 4" 8" 1'

3" = 1'-0" GRAPHIC SCALE

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

ARCHITECT OF RECORD

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791 Park of Commerce Blvd.
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Boca Raton, FL 33487
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CONSTRUCTION MANAGER/BUILDER

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1641 Worthington Rd
West Palm Beach
FL 33409

PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

STATE OF FLORIDA
LYNNIE LOHRUM
AR 96799
REGISTERED ARCHITECT

DRAWING HISTORY

No.	DATE	DESCRIPTION

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS / PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPD EVIDENCE & FIRE RANGE BUILDING

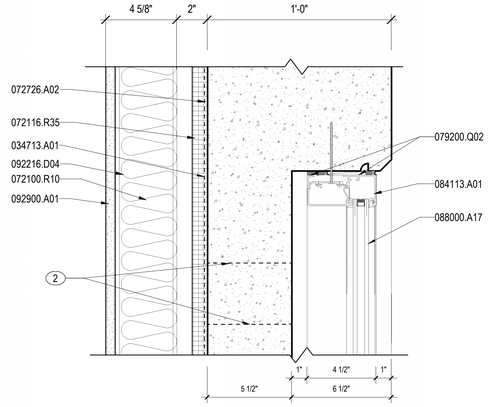
PROJECT LOCATION
2125 AVENUE S,
RIVIERA BEACH, FL
33404

PROJECT NUMBER
1007657.00

SHEET TITLE
HOLLOW METAL FRAME & TYPICAL DOOR DETAILS

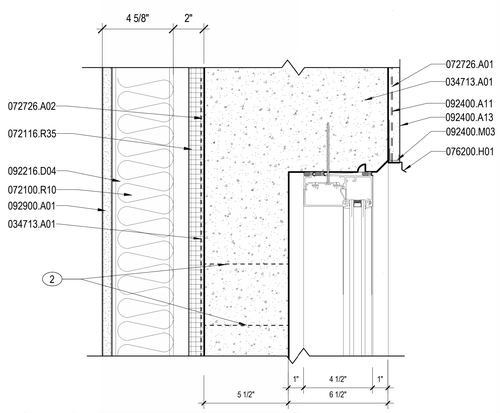
SHEET NUMBER
A0.35E

FILE NAME: Autodesk Docs:// 1007657.00 - CORE - City of Riviera Beach D/1007657 - RBPD_Evidence_&_Fire_Range_Building.rvt
DATE STAMP: 10/23/2025 5:40:54 PM



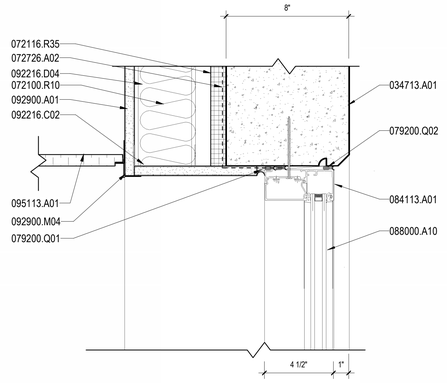
10 3" = 1'-0" **STOREFRONT SECTION DETAIL - HEAD**

BASIS OF DESIGN: ENVIRALUM SERIES 450 LEVEL 3 E IMPACT FRAMING
FLORIDA PRODUCT APPROVAL: FL#19002.1



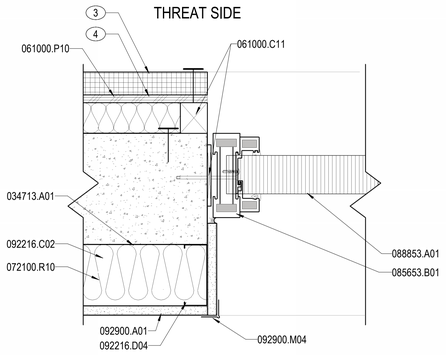
7 3" = 1'-0" **STOREFRONT SECTION DETAIL - HEAD**

BASIS OF DESIGN: ENVIRALUM SERIES 450 LEVEL 3 E IMPACT FRAMING
FLORIDA PRODUCT APPROVAL: FL#19002.1



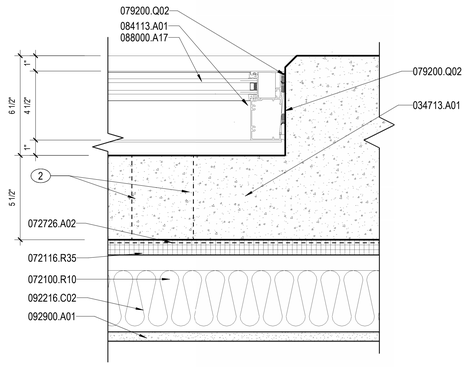
4 3" = 1'-0" **STOREFRONT SECTION DETAIL - HEAD**

BASIS OF DESIGN: ENVIRALUM SERIES 450 LEVEL 3 E IMPACT FRAMING
FLORIDA PRODUCT APPROVAL: FL#19002.1



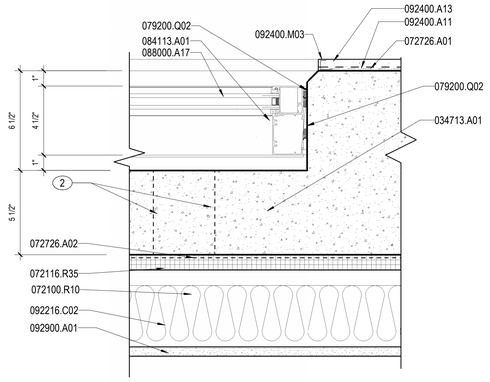
BASIS OF DESIGN: TSS BL 5.5 FRAMING SYSTEM WITH McGRORT GLASS BALLISTIC DEFEND 4-GCP GLAZING
(LEVEL 8 BULLET RESISTANT & SMOKE RATED)

12 3" = 1'-0" **BALLISTIC WINDOW JAMB**



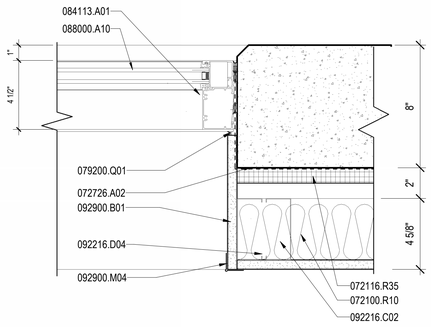
9 3" = 1'-0" **STOREFRONT SECTION DETAIL - JAMB**

BASIS OF DESIGN: ENVIRALUM SERIES 450 LEVEL 3 E IMPACT FRAMING
FLORIDA PRODUCT APPROVAL: FL#19002.1



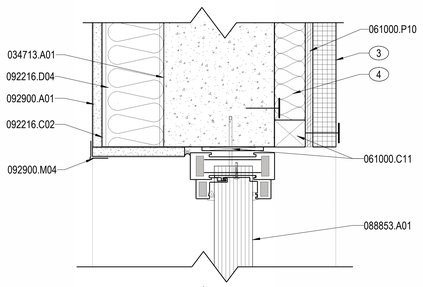
6 3" = 1'-0" **STOREFRONT SECTION DETAIL - JAMB**

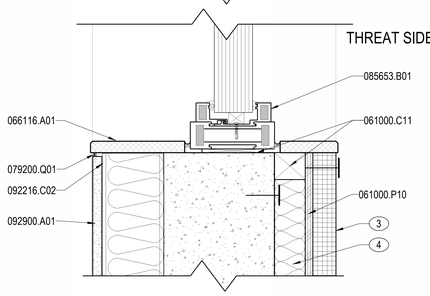
BASIS OF DESIGN: ENVIRALUM SERIES 450 LEVEL 3 E IMPACT FRAMING
FLORIDA PRODUCT APPROVAL: FL#19002.1



3 3" = 1'-0" **STOREFRONT SECTION DETAIL - JAMB**

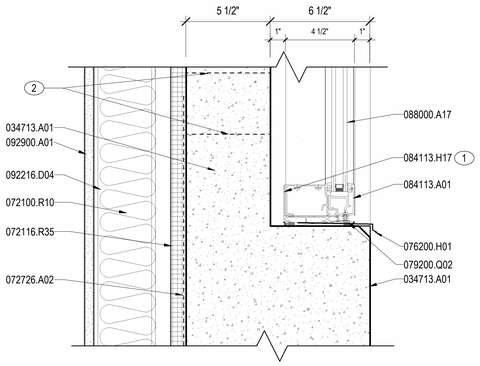
BASIS OF DESIGN: ENVIRALUM SERIES 450 LEVEL 3 E IMPACT FRAMING
FLORIDA PRODUCT APPROVAL: FL#19002.1





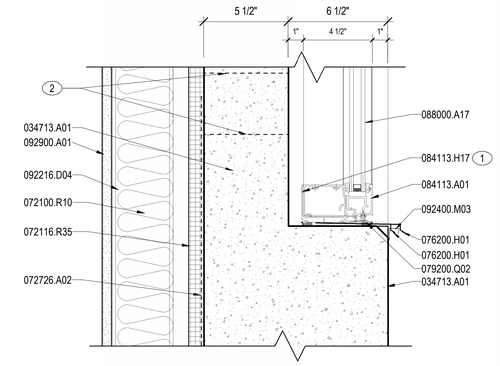
BASIS OF DESIGN: TSS BL 5.5 FRAMING SYSTEM WITH McGRORT GLASS BALLISTIC DEFEND 4-GCP GLAZING
(LEVEL 8 BULLET RESISTANT & SMOKE RATED)

11 3" = 1'-0" **BALLISTIC WINDOW HEAD/SILL**



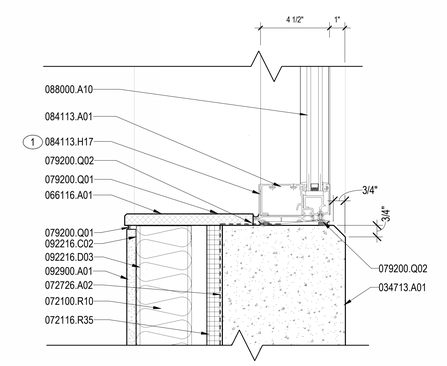
8 3" = 1'-0" **STOREFRONT SECTION DETAIL - SILL**

BASIS OF DESIGN: ENVIRALUM SERIES 450 LEVEL 3 E IMPACT FRAMING
FLORIDA PRODUCT APPROVAL: FL#19002.1



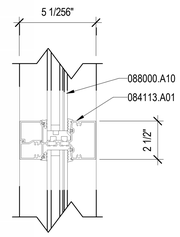
5 3" = 1'-0" **STOREFRONT SECTION DETAIL - SILL**

BASIS OF DESIGN: ENVIRALUM SERIES 450 LEVEL 3 E IMPACT FRAMING
FLORIDA PRODUCT APPROVAL: FL#19002.1



2 3" = 1'-0" **STOREFRONT SECTION DETAIL - SILL**

BASIS OF DESIGN: ENVIRALUM SERIES 450 LEVEL 3 E IMPACT FRAMING
FLORIDA PRODUCT APPROVAL: FL#19002.1



1 3" = 1'-0" **STOREFRONT MULLION**

GENERAL NOTES

A REFER TO SHEETS G0.01E FOR GENERAL ABBREVIATIONS AND ARCHITECTURAL SYMBOLS.
B REFER TO SHEET A0.30E FOR DOOR SCHEDULES & TYPICAL DOOR DETAILS.
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D ALL INTERIOR GLAZING SHALL BE CLEAR, TEMPERED GLASS 088000.A04 UNO.
E ALL EXTERIOR GLAZING SHALL BE TINTED INSULATING GLASS, CLASS 'E' IMPACT RATED FOR RISK CATEGORY IV ESSENTIAL BUILDINGS. 088000.A09 UNO.

SHEET NOTES

1 METAL FLASHING SET ON SEALANT
2 4" PVC SLEEVE VENT, 5 PER OPENING.
3 1 1/2" BALLISTIC RUBBER TILE PANELS FASTENED TO WOOD SLATS.
4 MINERAL WOOL INSULATION.

MATERIAL LEGEND

034713.A01	TILT-UP CONCRETE WALL PANEL
061000.C11	PRESSURE TREATED WOOD BLOCKING
061000.P10	FIRE-RETARDANT PLYWOOD PANEL
066116.A01	SOLID SURFACE WINDOW SILL
072100.R10	BLANKET INSULATION, UNFACED
072116.R35	GLASS-FIBERBOARD INSULATION
072726.A01	FLUID-APPLIED AIR BARRIER, VAPOR-RETARDING
072726.A02	FLUID-APPLIED AIR BARRIER, VAPOR-PERMEABLE
076200.H01	METAL FLASHING
079200.Q01	JOINT SEALANT
079200.Q02	BACKSTOP AND SEALANT
084113.A01	GLAZED ALUMINUM STOREFRONT SYSTEM
084113.H17	SILL FLASHING WITH END DAMS
085653.B01	BULLET RESISTANT ALUMINUM FRAME
088000.A10	CLEAR INSULATING GLASS UNIT
088000.A17	SPANDREL INSULATING GLASS UNIT
088853.A01	LAMINATED-GLASS SECURITY GLAZING
092216.C02	METAL STUD RUNNER TRACK
092216.D03	METAL STUD 3 5/8"
092216.D04	METAL STUD 4"
092400.A11	SELF FURRING DIAMOND MESH LATH
092400.A13	3-COAT STUCCO SYSTEM
092400.M03	EDGE TRIM METAL
092900.A01	GYPSUM BOARD, REGULAR 5/8"
092900.B01	GYPSUM BOARD, GLASS MAT FACED 5/8"
092900.M04	CORNERBEAD
095113.A01	ACOUSTICAL CEILING UNITS

0 2" 4" 8" 1'
3" = 1'-0" GRAPHIC SCALE

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

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JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

STATE OF FLORIDA
LONNIE LORIUM
AR 96289
REGISTERED ARCHITECT

DRAWING HISTORY

№	DATE	DESCRIPTION

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS / PERMIT SET
DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPD EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
STOREFRONT DETAILS

SHEET NUMBER
A0.36E

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/1007657 - RBPD_Evidence_&_Fire_Range_Building.rvt
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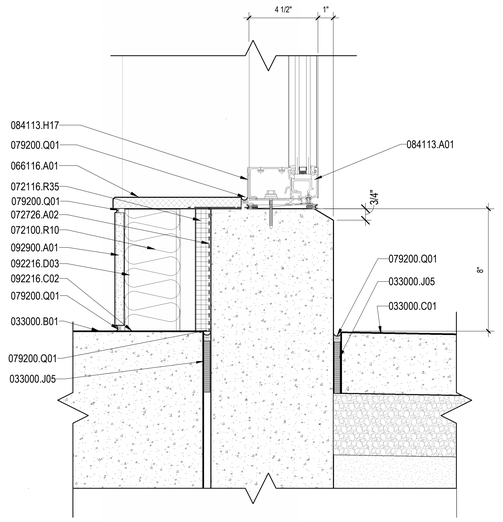
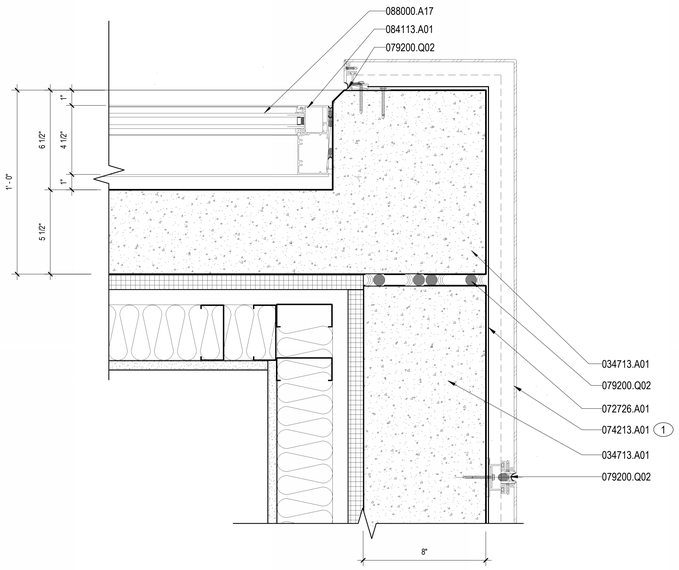


2 3" = 1'-0" **STOREFRONT SECTION DETAIL - SILL**



1 3" = 1'-0" **STOREFRONT PLAN DETAIL - JAMB**

GENERAL NOTES

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E ALL EXTERIOR GLAZING SHALL BE TINTED INSULATING GLASS, CLASS 'E' IMPACT RATED FOR RISK CATEGORY IV ESSENTIAL BUILDINGS. 088000.A09 UNO.

SHEET NOTES

1 BASIS OF DESIGN: ALPOLIC DBR DARK BRONZE TO MATCH ADMIN BUILDING

MATERIAL LEGEND

033000.B01	CONCRETE SLAB
033000.C01	CONCRETE WALK
033000.J05	PREFORMED JOINT FILLER
034713.A01	TILT-UP CONCRETE WALL PANEL
066116.A01	SOLID SURFACE WINDOW SILL
072100.R10	BLANKET INSULATION, UNFACED
072116.R35	GLASS-FIBERBOARD INSULATION
072726.A01	FLUID-APPLIED AIR BARRIER, VAPOR-RETARDING
072726.A02	FLUID-APPLIED AIR BARRIER, VAPOR-PERMEABLE
074213.A01	WALL PANEL SYSTEM
079200.Q01	JOINT SEALANT
079200.Q02	BACKSTOP AND SEALANT
084113.A01	GLAZED ALUMINUM STOREFRONT SYSTEM
084113.H17	SILL FLASHING WITH END DAMS
088000.A17	SPANDREL INSULATING GLASS UNIT
092216.C02	METAL STUD RUNNER TRACK
092216.D03	METAL STUD 3 5/8"
092900.A01	GYPSUM BOARD, REGULAR 5/8"

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

ARCHITECT OF RECORD

PGAL, Inc.
791 Park of Commerce Blvd.
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CONSTRUCTION MANAGER/BUILDER

CORE CONSTRUCTION
1641 Worthington Rd
West Palm Beach
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PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

STATE OF FLORIDA
JOHNNIE LOHRUM JR.
AR 96099
REGISTERED ARCHITECT

DRAWING HISTORY

No.	DATE	DESCRIPTION

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS / PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPD EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

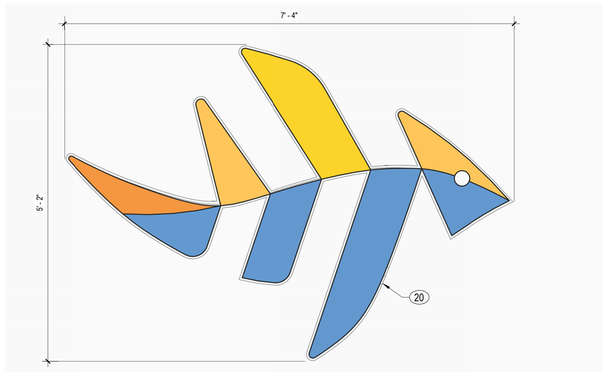
SHEET TITLE
STOREFRONT DETAILS

SHEET NUMBER
A0.37E

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/1007657 - RBPD_Evidence_&_Fire_Range_Building.rvt
DATE STAMP: 10/23/2025 5:41:01 PM

ROOM SIGNAGE SCHEDULE

ROOM NUMBER	ROOM NAME	SIGN TYPE	SIGN ROOM NUMBER	SIGN MESSAGE	ADDITIONAL NOTES
FIRST FLOOR					
E101	EVIDENCE VEHICLE STORAGE	XA2/A2	E101	EVIDENCE VEHICLE STORAGE	
E102	EV PROCESS	XA2/A2	E102	EVIDENCE VEHICLE PROCESS	
E103	DRYING ROOM	A2	E103	DRYING ROOM	
E104	RR	A3	E104	RESTROOM	
E105	SWAT VEHICLE	XA2/A2	E105	SWAT VEHICLE ROOM	
E106	SWAT	XA2	E106	SWAT ROOM	
E107	RR	A3	E107	RESTROOM	
E108	SWAT STOR.	A2	E108	SWAT STORAGE	
E109	FLEX STORAGE	XA2	E109	MECHANICAL ROOM	
E110	ELECT.	XA2	E110	ELECTRICAL ROOM	
E111	CIRCULATION	A2	E111	CORRIDOR	
E112	IT	A2	E112	IT ROOM	
E113	AMMO	A2	E113	AMMUNITION ROOM	
E114	CONTROL	A2	E114	CONTROL ROOM	
E115	SIMULATOR	A2	E115	SIMULATOR ROOM	
E116	RR	A3	E116	RESTROOM	
E117	RR	A3	E117	RESTROOM	
E118	JAN.	A2	E118	JANITOR	
E119	VEST	A2	E119	VESTIBULE	
E120	CLEAN / REPAIR	A2	E120	CLEAN / REPAIR	
E121	CONTROL	A2	E121	CONTROL ROOM	
E122	FIRING RANGE + SIMULATOR ROOM	A2	E122	FIRING RANGE	
MEZZANINE					
E201	MEZZANINE	A2	E201	MEZZANINE	



12 1" = 1'-0" **RBPD LOGO DETAIL, STAINLESS STEEL - ILLUMINATED**



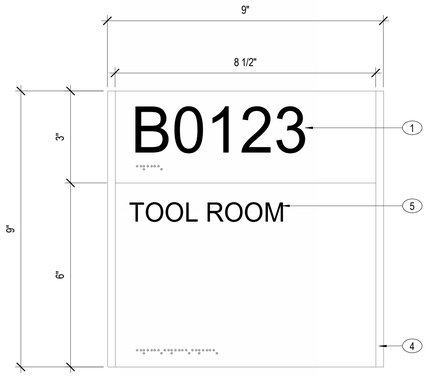
11 1" = 1'-0" **XBA - EXTERIOR SCREEN WALL NUMBER, STAINLESS STEEL - NON-ILLUMINATED**



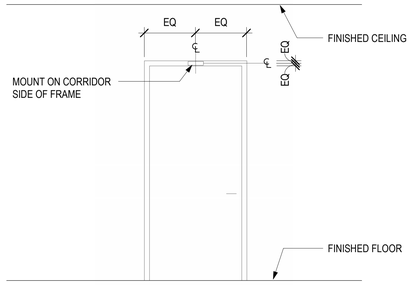
10 1" = 1'-0" **XBA - EXTERIOR SCREEN WALL NUMBER, STAINLESS STEEL - NON-ILLUMINATED**



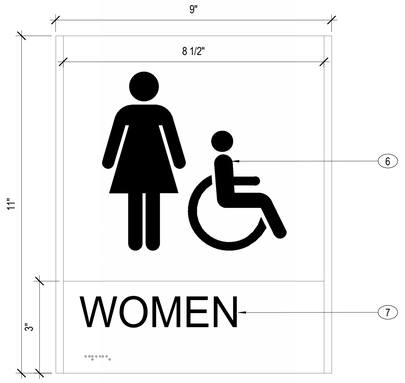
9 1" = 1'-0" **XBA - EXTERIOR BUILDING NUMBER, STAINLESS STEEL - NON-ILLUMINATED**



8 6" = 1'-0" **XA2 / A2, PERMANENT ROOM SIGNAGE**



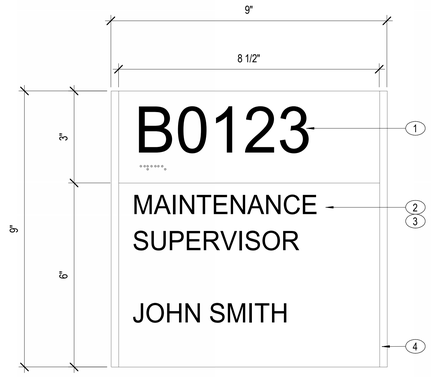
7 1/2" = 1'-0" **DOOR TAG SIGNAGE MOUNTING HEIGHTS**



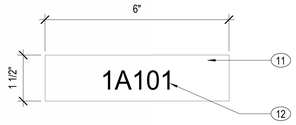
6 6" = 1'-0" **A3, ADA RESTROOM SIGNAGE**



5 6" = 1'-0" **XBD, NO SMOKING BUILDING SIGNAGE**



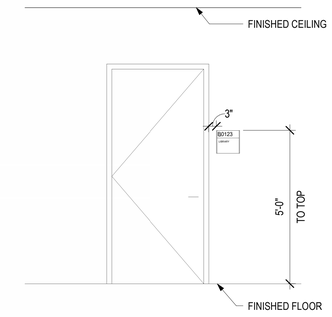
4 6" = 1'-0" **A1, ROOM SIGNAGE W/ INSERTS**



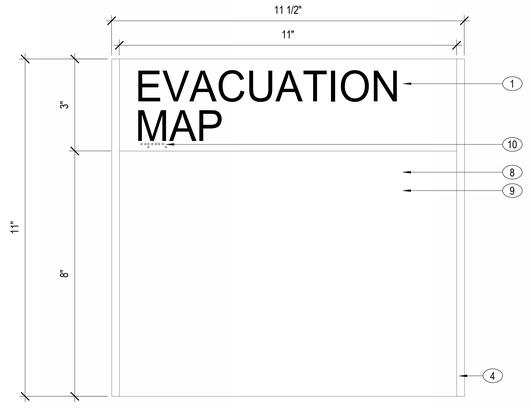
DOOR TAG IS REQUIRED ON ALL DOORS EVEN IF SIGN IS NOT SCHEDULED FOR ROOM

LOCATE A DOOR TAG ON ALL DOOR FRAMES (CORRIDOR SIDE). SIGN NUMBERS TO MATCH ARCHITECTURAL FLOOR PLAN NUMBERS.

3 6" = 1'-0" **DOOR TAG SIGNAGE**



2 1/2" = 1'-0" **ROOM SIGNAGE MOUNTING HEIGHTS**



1 6" = 1'-0" **E1, EVACUATION MAP**

GENERAL NOTES

A REFER TO AE815 FOR SIGNAGE LOCATION PLANS

B REFER TO AE815 & AE816 FOR SIGN ELEVATIONS AND MOUNTING HEIGHTS

C REFER TO AE816 FOR SIGN MESSAGE SCHEDULES

D LOCAL FIRE MARSHALL TO VERIFY SIGN TYPE E1 FIRE EVACUATION MAP SIGN LOCATIONS.

E PRIOR TO FABRICATION, SIGN FABRICATOR TO COORDINATE WITH OWNER TO FINALIZE SIGN MESSAGE SCHEDULE, ROOM NUMBERING, AND GENERAL NOMENCLATURE.

F REFER TO SPECIFICATION SECTION 10 14 23.16 ROOM-IDENFICATION PANEL SIGNAGE FOR ADDITIONAL INFORMATION AND COORDINATION.

G DOOR TAG NUMBERS TO MATCH ARCHITECTURAL FLOOR PLAN NUMBERS PER DOOR SCHEDULE. REFER TO DOOR NUMBERS AS PROVIDED ON SHEET AE601.

H CHARACTERS, LETTERS, AND NUMBERS TO BE TACITLE RAISED, 1/32 INCH OF CONTRASTING COLOR AND ACCOMPANIED BY GRADE 2 BRAILLE, UNLESS OTHERWISE NOTED.

I ALL FASTERNERS TO BE CONCEALED AND VANDAL RESISTANT.

J ALL EDGES TO BE FINISHED AND PAINTED.

K SIGN FABRICATOR TO PROVIDE OWNER WITH COMPLETE TEMPLATE LAYOUT FOR EACH SIGN TYPE, TO BE USED FOR FUTURE INSERT UPDATES.

L TEXT ON SIGN ELEVATIONS IS FOR EXAMPLE ONLY.

SHEET NOTES

1 1-1/2" TACTILE ROOM NUMBER WITH BRAILLE HELVETICA NEUE 55 ROMAN

2 PRINTED PAPER INSERT WITH ROOM DESCRIPTION

3 5/8" HIGH PRINTED MESSAGE HELVETICA NEUE 55 ROMAN

4 REMOVABLE END CAPS

5 5/8" TACTILE ROOM NUMBER WITH BRAILLE

6 GRAPHIC SHOULD FIT IN 6" FIELD

7 1" TACTILE ROOM DESCRIPTION WITH BRAILLE HELVETICA NEUE 55 ROMAN

8 CLEAR POLYCARBONATE INSERT COVER, MOUNT TO BACKER 1/32" THICK DOUBLE SIDED TAPE ALLOWING OPENING TO HOLD PAPER INSERT.

9 FABRICATE SIGN TO INCLUDE INSERT AREAS AS PER OWNER REQUIREMENTS.

10 GRADE 2 RAISED BRAILLE; COLOR TO MATCH BACKGROUND.

11 SOLID ACRYLIC PANEL TO MATCH DOOR FRAME

12 7/8" CAP HIGH MACHINE ENGRAVED TEXT COLOR: BLACK

13 1" CAP HEIGHT TEXT; COLOR: WHITE

14 NON SMOKING GRAPHIC, COLOR: REFLECTIVE WHITE VINYL

15 DOES NOT APPEAR IN SCHEDULE SEE SHEETS AG101 THROUGH AG111F FOR LOCATIONS

16 NO MESSAGE SCHEDULE. TEXT AND GRAPHIC SPECIFIC TO THIS SIGN

17 MOUNT TOP OF SIGN AT 60" AFF

18 BAKED ENAMEL INDIVIDUAL ALUMINUM PANEL, COLOR: BLUE PANTONE 19-4052 PTX (653C)

19 ROUNDED CORNERS

20 ALUMINUM LASER CUT SIGNAGE TO BE BACKLIT. COLORS AND DESIGN TO MATCH CITY OF RIVIERA BEACH LOGO.

0 1' 2' 4' 6' 8'
1/2" = 1'-0" GRAPHIC SCALE

0 6" 1' 2' 3' 4'
1" = 1'-0" GRAPHIC SCALE

0 1" 2" 3" 6"
6" = 1'-0" GRAPHIC SCALE

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
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REGISTRATION

STATE OF FLORIDA
LYNNIE LORIUM JL2
AR 96289
REGISTERED ARCHITECT

DRAWING HISTORY

No.	DATE	DESCRIPTION

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS / PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPD EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

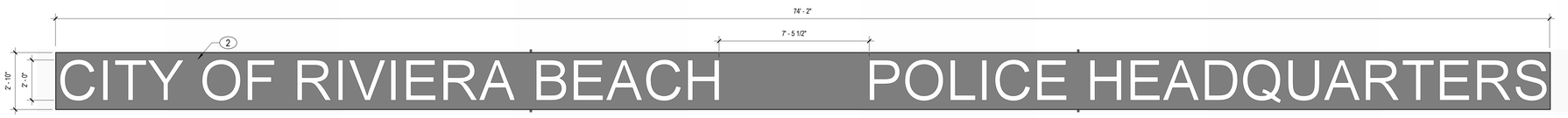
SHEET TITLE
SIGNAGE SCHEDULE & TYPES

SHEET NUMBER
A0.50E

FILE NAME: Autodesk Docs://_1007657.00_-_CORE_-City of Riviera Beach D/1007657_-_RBPD_Evidence_&_Fire_Range_Building.rvt
DATE STAMP: 10/23/2025 5:41:05 PM



2 1" = 1'-0" **RBPD LOGO SIGNAGE DETAIL**



1 3/8" = 1'-0" **CITY OF RIVIERA BEACH POLICE DEPARTMENT SIGNAGE DETAIL**

GENERAL NOTES

A REFER TO AE815 FOR SIGNAGE LOCATION PLANS
B REFER TO AE815 & AE816 FOR SIGN ELEVATIONS AND MOUNTING HEIGHTS
C REFER TO AE816 FOR SIGN MESSAGE SCHEDULES
D LOCAL FIRE MARSHALL TO VERIFY SIGN TYPE E1 FIRE EVACUATION MAP SIGN LOCATIONS.
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F REFER TO SPECIFICATION SECTION 10 14 23.16 ROOM-IDENFICATION PANEL SIGNAGE FOR ADDITIONAL INFORMATION AND COORDINATION.
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I ALL FASTERNERS TO BE CONCEALED AND VANDAL RESISTANT.
J ALL EDGES TO BE FINISHED AND PAINTED.
K SIGN FABRICATOR TO PROVIDE OWNER WITH COMPLETE TEMPLATE LAYOUT FOR EACH SIGN TYPE, TO BE USED FOR FUTURE INSERT UPDATES.
L TEXT ON SIGN ELEVATIONS IS FOR EXAMPLE ONLY.

SHEET NOTES

1 COLORS AND LOGO DESIGN TO MATCH CITY OF RIVIERA BEACH POLICE DEPARTMENT LOGO.
2 BACKLIT LASER CUT ALUMINUM SIGNAGE

0 6" 1' 2' 3' 4'
1" = 1'-0" GRAPHIC SCALE

0 1' 2' 4' 6' 8' 10'
3/8" = 1'-0" GRAPHIC SCALE

CLIENT

CITY OF RIVIERA BEACH
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1678 Kingston Road
Longwood, FL
32750

REGISTRATION

STATE OF FLORIDA
JENNIE LOHRUM
AR 99289
REGISTERED ARCHITECT

DRAWING HISTORY

No.	DATE	DESCRIPTION

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS / PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPD EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
SIGNAGE DETAILS

SHEET NUMBER
A0.55E

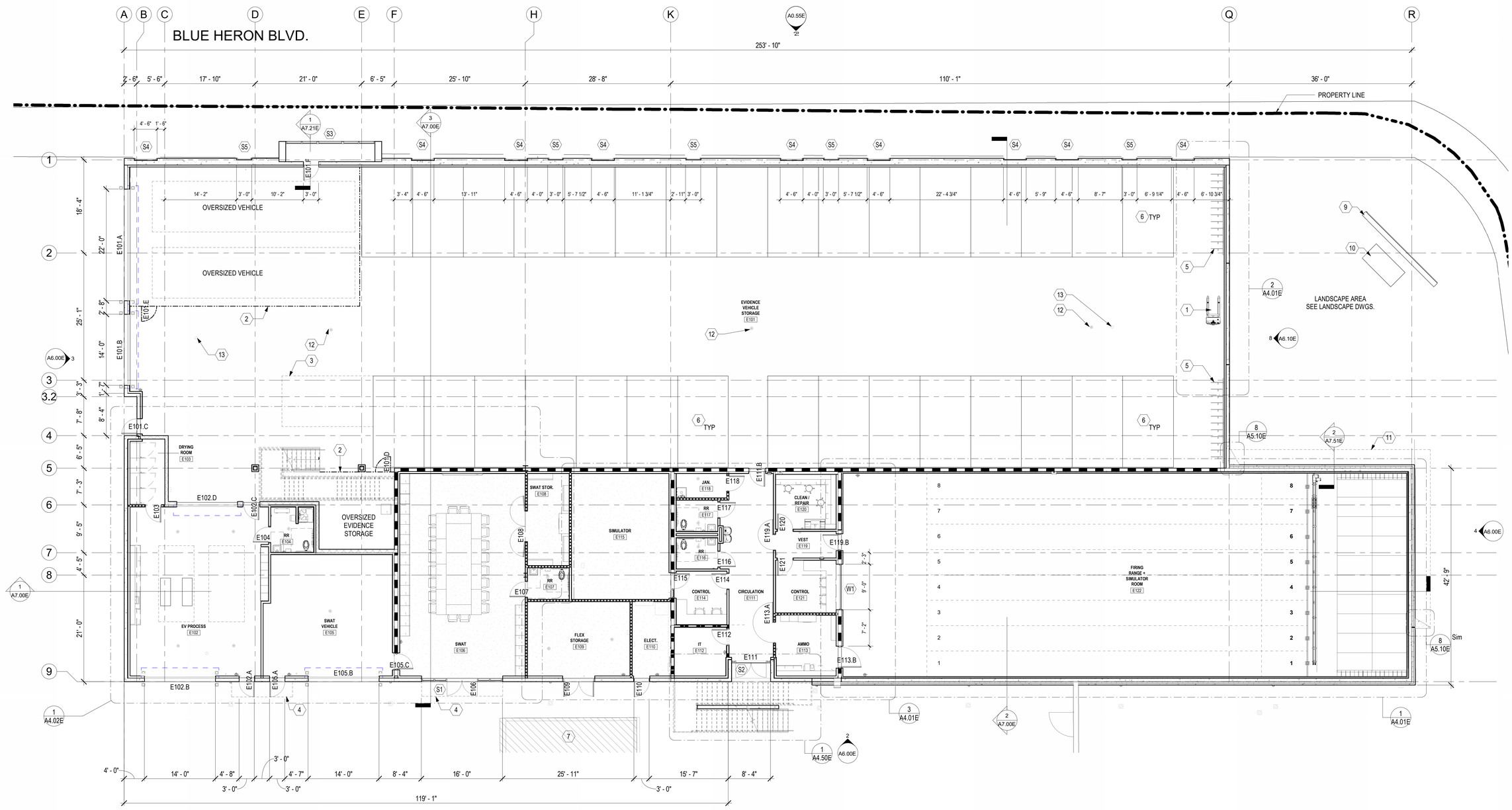
FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/1007657 - RBPD_Evidence_&_Fire_Range_Building.rvt
DATE STAMP: 10/23/2025 5:41:08 PM

GENERAL NOTES

A REFER TO SHEETS G1.00E FOR GENERAL ABBREVIATIONS AND ARCHITECTURAL SYMBOLS.
B DASHED LINES REPRESENT ITEMS ABOVE.
C REFER TO SHEET I0.10 FOR PARTITION TYPES AND DETAILS. PARTITIONS NOT IDENTIFIED SHALL BE TYPE A3 UNO.
D REFER TO SHEET I0.30E FOR DOOR, WINDOW, LOUVER, AND STOREFRONT ELEVATIONS.
E REFER TO SHEETS I0.30E FOR DOOR SCHEDULE & FOR TYPICAL DOOR DETAILS.
F FOR LOCKERS AND TOILET ROOM DIMENSIONS, REFER TO ENLARGED FLOOR PLANS.
G DIMENSIONS ARE TO COLUMN GRID, FACE OF MASONRY/CONCRETE/PRECAST, FACE OF METAL STUD, UNO.
H PROVIDE ALL NECESSARY FIREPROOFING MATERIALS TO MAINTAIN REQUIRED RATINGS.
I REFER TO SHEET G1.00E FOR LIFE SAFETY PLANS.
J REFER TO PLUMBING SHEETS FOR FLOOR DRAIN LOCATION COORDINATION.
K REFER TO SHEET A8.00 FOR TYPICAL EQUIPMENT MOUNTING HEIGHTS.
L REFER TO STRUCTURAL SHEET FOR TILT UP PANEL ELEVATIONS, OPENING DIMENSIONS AND DETAILS.
M REFER TO SHEET SERIES I2.21 FOR FINISH SCHEDULE AND KEY TO FINISHES.
N REFER TO SHEET I0.10 FOR THROUGH PENETRATION FIRESTOP SYSTEM SCHEDULE AND WALL PRIORITIES.

SHEET NOTES

1 FORKLIFT STORAGE AREA
2 SECURED FENCE
3 TEMPORARY VEHICLE STORAGE
4 DASHED LINE REPRESENTS CANOPY ABOVE. REFER TO ADMIN BUILDING DRAWINGS FOR MORE INFORMATION.
5 WALL MOUNTED HIGH DENSITY BIKE RACK
6 DESIGNATED VEHICLE SPACE. TOTAL UNSECURED VEHICLE SPACES: 31
7 GENERATOR BUILDING. REFER TO ADMIN DRAWINGS FOR FURTHER INFORMATION.
9 EXTERIOR SIGNAGE. REFER TO ADMIN BUILDING DRAWINGS FOR MORE INFORMATION.
10 PEDESTAL. REFER TO ADMIN BUILDING DRAWINGS FOR FURTHER INFORMATION.
11 CAST IN PLACE CONCRETE SOFFIT ABOVE.
12 FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION
13 FLOOR CLEANOUT. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION



OVERALL FIRST FLOOR PLAN 1/8" = 1'-0" (1)

PLAN NORTH

0 4' 8' 16' 24' 32'
1/8" = 1'-0" GRAPHIC SCALE

CLIENT

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32750

REGISTRATION

STATE OF FLORIDA
JOHNNIE LOHRUM JR.
AR 96099
REGISTERED ARCHITECT

DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/9/2025	Site Plan Resubmission

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS / PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPD EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
FLOOR PLAN, GROUND - EVIDENCE/ FIRING RANGE

SHEET NUMBER
A2.10E

FILE NAME: Autodesk Docs:// 1007657.00 - CORE - City of Riviera Beach D/1007657 - RBPD_Evidence_&_Fire_Range_Building.rvt
DATE STAMP: 10/23/2025 5:41:10 PM

GENERAL NOTES

A REFER TO SHEETS G1.00E FOR GENERAL ABBREVIATIONS AND ARCHITECTURAL SYMBOLS.
B DASHED LINES REPRESENT ITEMS ABOVE.
C REFER TO SHEET I0.10 FOR PARTITION TYPES AND DETAILS. PARTITIONS NOT IDENTIFIED SHALL BE TYPE A3 UNO.
D REFER TO SHEET I0.30E FOR DOOR, WINDOW, LOUVER, AND STOREFRONT ELEVATIONS.
E REFER TO SHEETS I0.30E FOR DOOR SCHEDULE & FOR TYPICAL DOOR DETAILS.
F FOR LOCKERS AND TOILET ROOM DIMENSIONS, REFER TO ENLARGED FLOOR PLANS.
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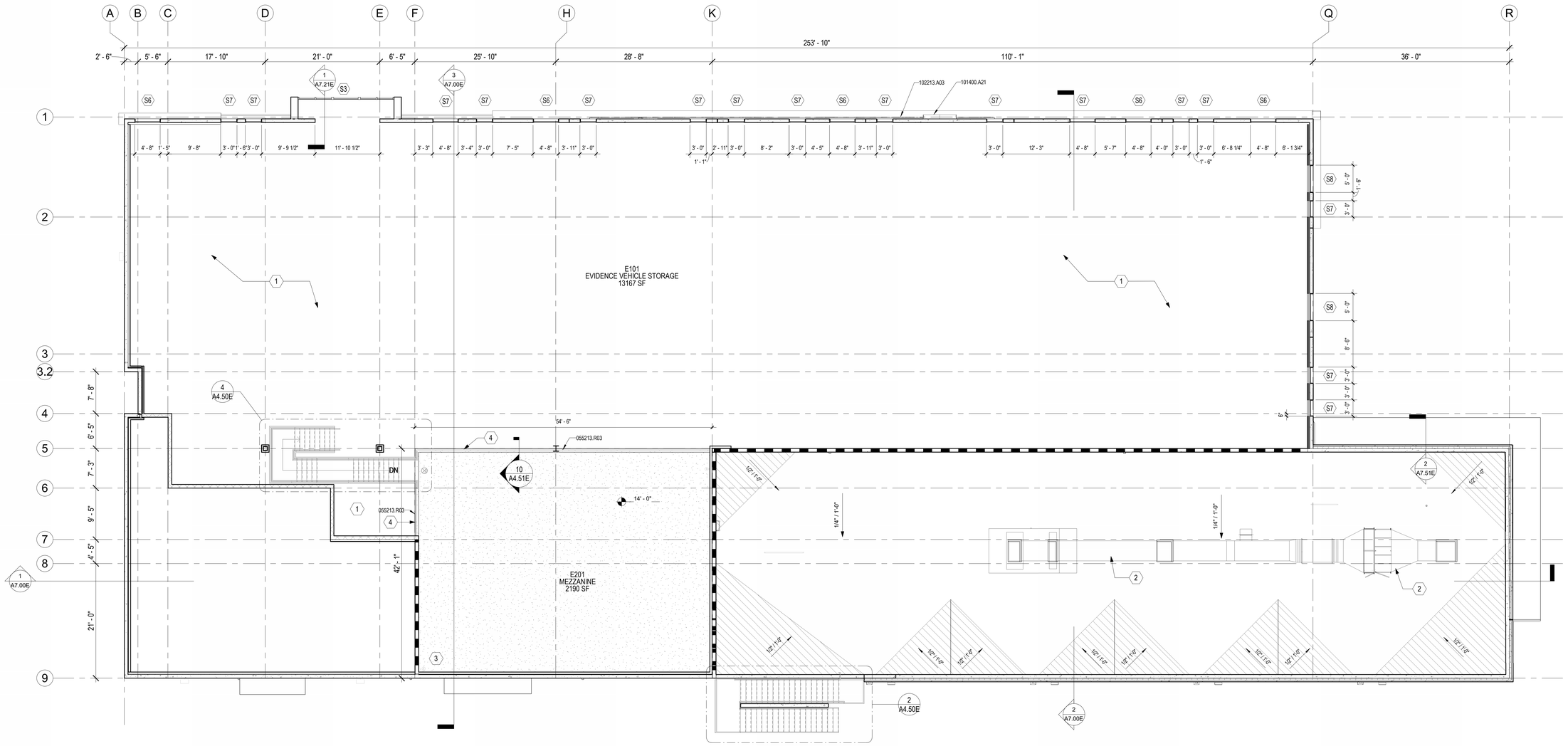
J REFER TO PLUMBING SHEETS FOR FLOOR DRAIN LOCATION COORDINATION.
K REFER TO SHEET A8.00 FOR TYPICAL EQUIPMENT MOUNTING HEIGHTS.
L REFER TO STRUCTURAL SHEET FOR TILT UP PANEL ELEVATIONS, OPENING DIMENSIONS AND DETAILS.
M REFER TO SHEET SERIES I2.21 FOR FINISH SCHEDULE AND KEY TO FINISHES.
N REFER TO SHEET I0.10 FOR THROUGH PENETRATION FIRESTOP SYSTEM SCHEDULE AND WALL PRIORITIES.

SHEET NOTES

KEYNOTES: 0

1 OPEN TO BELOW
2 FIRING RANGE MECHANICAL EQUIPMENT BY VENDOR
3 REFER TO FINISH SCHEDULE FOR MORE INFORMATION
4 STAINLESS STEEL GUARDRAIL. REFER TO SPECS FOR MORE INFORMATION.



OVERALL FLOOR PLAN, MEZZANINE 1/8" = 1'-0" 1

PLAN NORTH

0 4' 8' 16' 24' 32'
1/8" = 1'-0" GRAPHIC SCALE

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A	4/4/2025	100% Design Development
B	7/9/2025	Site Plan Resubmission

CONSULTANT

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RBPD EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
FLOOR PLAN, MEZZANINE - EVIDENCE/ FIRING RANGE

SHEET NUMBER
A2.15E

GENERAL NOTES

1. DO NOT SCALE DRAWINGS, CONTACT ARCHITECT IN WRITING FOR CLARIFICATIONS OR MISSING DIMENSIONS.
2. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFORMATION IN WRITING BEFORE EXECUTION OF WORK.
3. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND ROOFTOP MECHANICAL EQUIPMENT.
4. PROVIDE WALKWAY PADS AROUND ALL ROOFTOP MECHANICAL EQUIPMENT.
5. PROVIDE WALKWAY PADS FROM ROOFTOP ACCESS MECHANICAL EQUIPMENT FOR PROTECTION.
6. REFER TO STRUCTURAL DRAWINGS FOR "ALLOWABLE" DESIGN WIND PRESSURE REQUIREMENTS RELATED TO THE ROOFING SYSTEM.
7. ROOFING SYSTEM TO HAVE CURRENT MIAMI DADE NOA AND/OR FLORIDA PRODUCT APPROVALS THAT MEET OR EXCEED THE DESIGN WIND PRESSURES.
8. REFER TO SHEET G0.02 FOR GENERAL ABBREVIATIONS AND ARCHITECTURAL SYMBOLS.
9. R-VALUE FOR ALL ROOF INSULATION IS TO BE EQUAL TO FLORIDA BUILDING CODE REQUIREMENT FOR THE CLIMATE ZONE REGION (1A).
10. PARAPET HEIGHTS ARE TO TOP OF TILT-WALL OR METAL STUD. PRESSURE TREATED WOOD NAILERS AND METAL COPING/ FLASHING OCCUR ABOVE THIS HEIGHT.

SHEET NOTES

- INDICATES 1/4" PER FOOT SLOPE TO DRAIN AT ROOF
- INDICATES ROOF PITCH
- WALK PADS
- .00.0 — NEW OR FINISH POINT ELEVATION
- A10 — SHEET KEYNOTE
- REFERENCE
- 10 / A7.101 — BUILDING SECTION REFERENCE

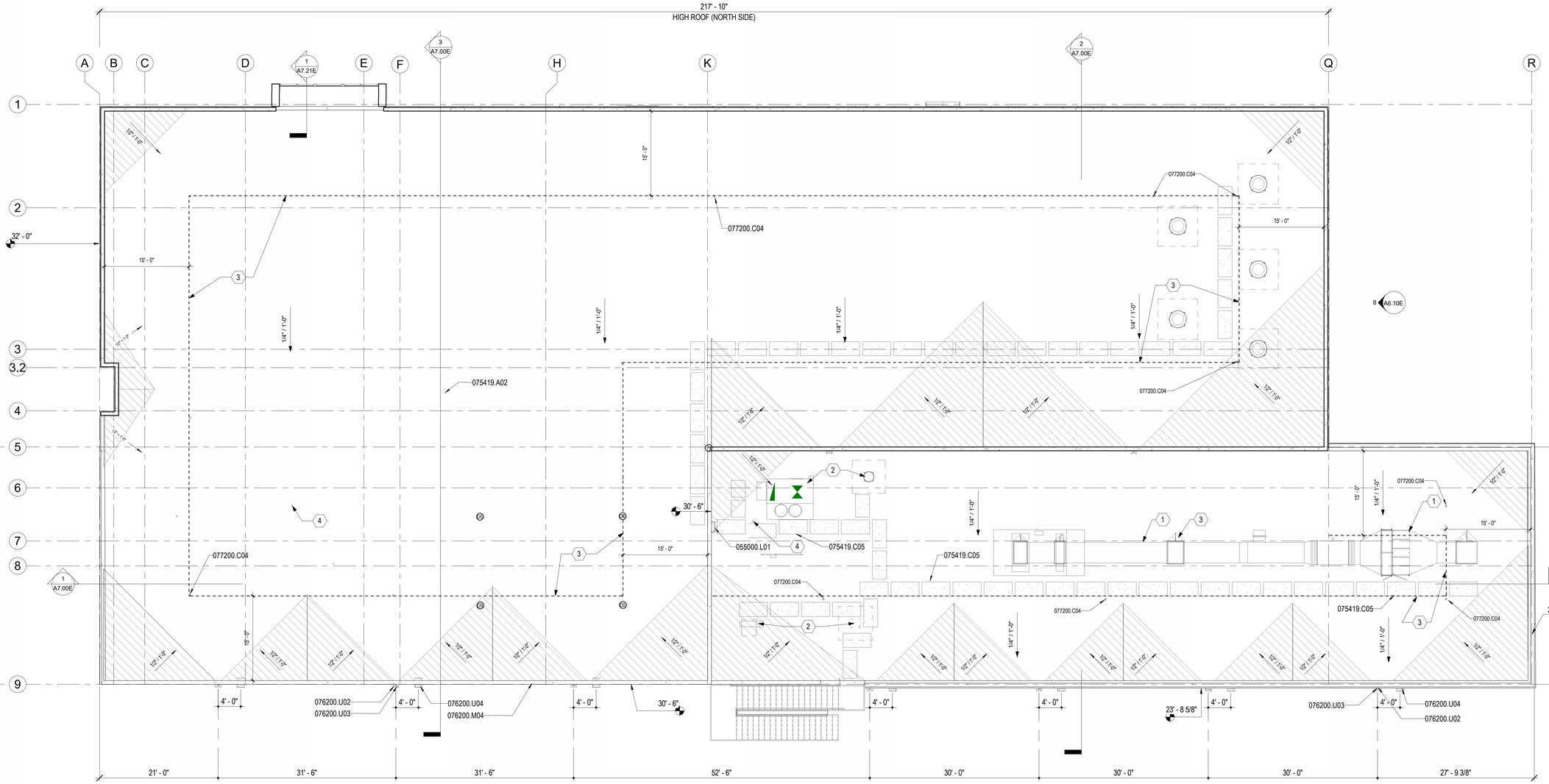
KEYNOTES: 0

1 FIRING RANGE MECHANICAL EQUIPMENT BY VENDOR
2 ROOF TOP MECHANICAL EQUIPMENT. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
3 <varies>
4 VENT THRU ROOF (VTR). REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

MATERIAL LEGEND

055000.L01	STEEL LADDER
075419.A02	SINGLE-PLY PVC ROOFING MEMBRANE, FULLY ADHERED
075419.C05	ROOF WALKWAY PAD
076200.M04	PARAPET COPING
076200.U02	DOWNSPOUT
076200.U03	CONDUCTOR HEAD
076200.U04	SCUPPER
077200.C04	TIEBACK ANCHOR FOR FALL PROTECTION

HIGH ROOF (NORTH SIDE) ROOF AREA = 12,913 SF



HIGH ROOF (SOUTH) ROOF AREA = 4,435 SF

LOW ROOF (SHOOTING RANGE) ROOF AREA = 5,898 SF

OVERALL ROOF PLAN 1/8" = 1'-0" (1)

PLAN NORTH

0 4' 8' 16' 24' 32'
1/8" = 1'-0" GRAPHIC SCALE

FILE NAME: Autodesk Docs://_1007657.00_-_CORE_-_City of Riviera Beach D/1007657 - RBPD_Evidence_&_Fire_Range_Building.rvt
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CLIENT

CITY OF RIVIERA BEACH
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ARCHITECT OF RECORD

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PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

STATE OF FLORIDA · SUNNIE LORDUM · AR 90289 · REGISTERED ARCHITECT

DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/9/2025	Site Plan Resubmission

CONSULTANT

PROJECT STATUS

90% CONSTRUCTION DOCUMENTS / PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RBPD EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION

2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER

1007657.00

SHEET TITLE

FLOOR PLAN, ROOF - EVIDENCE/ FIRING RANGE

SHEET NUMBER

A2.30E

GENERAL NOTES

A REFER TO SHEETS G0.01E FOR GENERAL ABBREVIATIONS AND ARCHITECTURAL SYMBOLS.
B REFER TO SHEET SERIES G1.00E FOR LIFE SAFETY PLANS.
C ALL CEILING HEIGHTS ARE ABOVE FINISHED FLOOR.
E ALL SOFFITS ARE 7'-2" AFF UNO.
F WHERE LOCKERS ARE INSTALLED, COORDINATE SOFFIT HEIGHT WITH LOCKERS PROVIDED.
G REFER TO SHEET I2.21 FOR FINISH SCHEDULES AND FINIFH IDENTIFICATION SCHEDULES.
H REFER TO ELECTRICAL DRAWINGS FX, EL AND ET FOR COORDINATION OF ALL ELECTRICAL ITEMS SHOWN IN CEILING PLAN.
I REFER TO MECHANICAL DRAWINGS ME FOR COORDINATION OF ALL MECHANICAL ITEMS SHOWN IN CEILING PLAN.
J REFER TO ENGINEERING DRAWINGS FOR CEILING MOUNTED EQUIPMENT.
K COMMUNICATION DEVICES AND CEILING MOUNTED EQUIPMENT TO BE CENTERED IN CEILING TILE UNO.
L ALL CEILING GRIDS TO BE CENTERED IN ROOMS UNO.
M IN CASE OF DISCREPANCIES IN LOCATION OF COMPONENTS WITH ELECTRICAL DRAWINGS, THE REFLECTED CEILING PLAN SHALL GOVERN.
N SINGLE LIGHT FIXTURES IN GYPSUM BOARD CEILINGS TO BE CENTERED IN BOTH DIRECTIONS UNO.
O ACCESS PANELS TO BE PAINTED TO MATCH ADJACENT CEILING FINISH UNO.

SHEET NOTES

3 OPEN TO ABOVE
4 BULLET TRAP
5 BALLISTIC RATED BAFFLES
6 SAFETY CEILING
7 MECHANICAL EQUIPMENT
8 CONCRETE SOFFIT
9 FORENSICS VEHICLE PROCESSING CURTAIN TRACK. SEE SPECS FOR ADDITIONAL INFO

LIFE SAFETY SYMBOLS

UNRATED PARTITION
SMOKE PARTITION
1 HOUR FIRE BARRIER

INSULATION VALUES

CLIMATE ZONE 1A, CITY OF RIVIERA BEACH, FL (WARM-HUMID COUNTY) PALM BEACH COUNTY
HEATING LOAD - MAX 72 DEG. F
COOLING LOAD - MIN. 75 DEG. F

SPEC NO.	DESCRIPTION	DEPTH	R-VALUE
072200.R01	ROOF RIGID BOARD INSULATION (ENTIRELY ABOVE DECK)	3.5 INCHES	R-21ci
072113.R01	MASS (RIGID BOARD, EPS)	1 INCHES	R-5.7 ci
--	UNDERSLAB RIGID INSULATION	NR	NR
--	OPAQUE DOORS, NON-SWINGING*	--	R-4.75
SPEC NO.	DESCRIPTION	DEPTH	U-VALUE
--	FENESTRATION, FIXED	NR	0.50

SPEC NO.	DESCRIPTION	ORIENTATION	SHGC
--	FENESTRATION, FIXED	NORTH	0.37
SPEC NO.	DESCRIPTION	ORIENTATION	SHGC
--	FENESTRATION, FIXED	S,W,E	0.30

PER FBC, ENERGY CONSERVATION, TABLE C402.1.3
R-VALUES BASED ON STANDARD R-6 PER 1-INCH DEPTH OF INSULATION.
*REQUIRED FOR TEMPERATURE CONTROLLED INTERIOR SPACES.

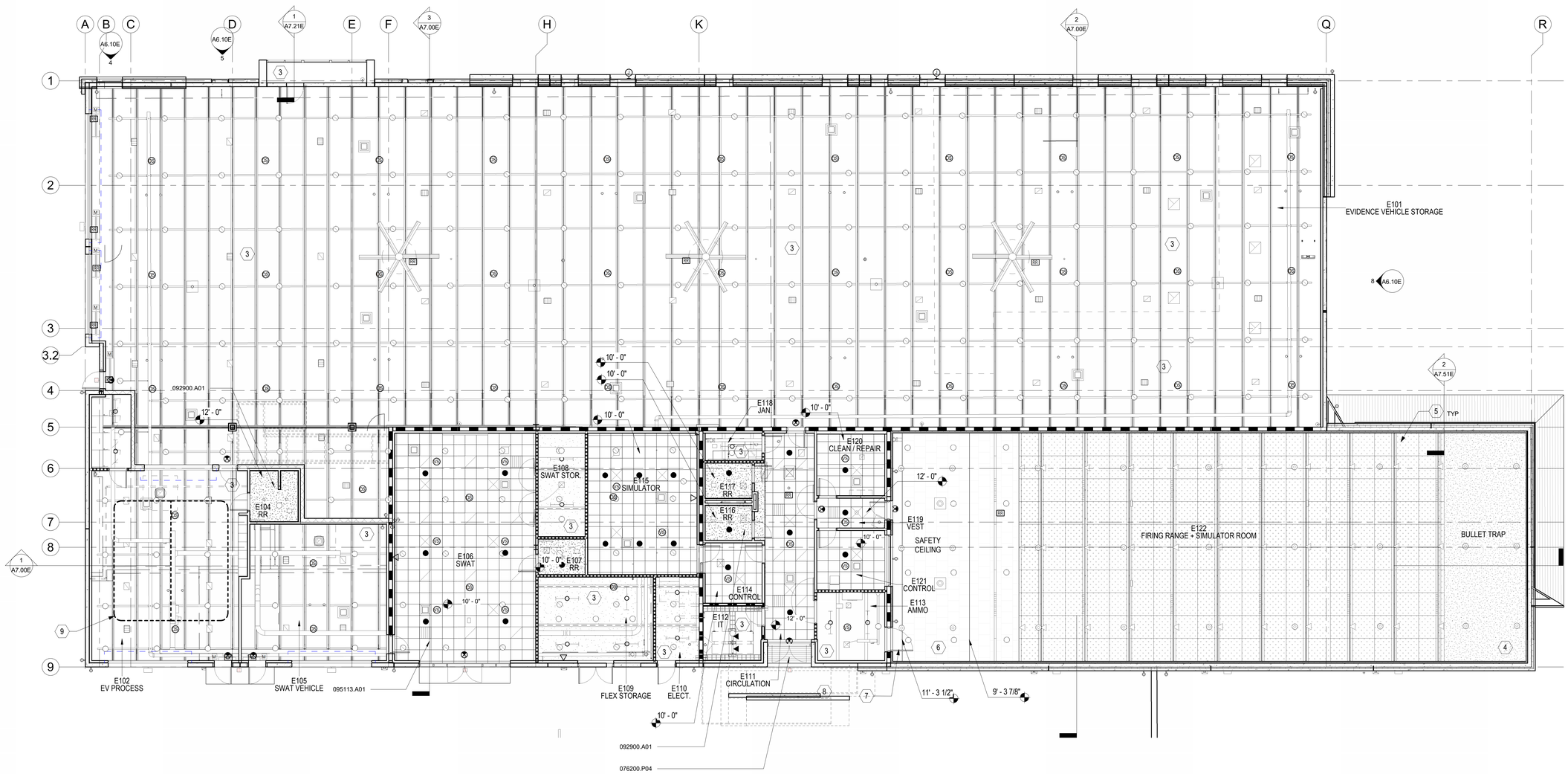
CEILING LEGEND

CEILING TYPES

ACOUSTICAL CEILING TILES 095113.A01
GYPSUM BOARD CEILING SYSTEM, UON 092900.A01
CONCRETE SOFFIT
OPEN TO STRUCTURE ABOVE

MATERIAL LEGEND

076200.P04	METAL SOFFIT PANEL SYSTEM
092900.A01	GYPSUM BOARD, REGULAR 5/8"
095113.A01	ACOUSTICAL CEILING UNITS



REFLECTED CEILING PLAN 1/8" = 1'-0" (1)

PLAN NORTH

0 4' 8' 16' 24' 32'
1/8" = 1'-0" GRAPHIC SCALE

FILE NAME: Autodesk Docs://_1007657.00_-_CORE_-_City_of_Riviera_Beach_D/1007657_-_RBPD_Evidence_&_Fire_Range_Building.rvt
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JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION
STATE OF FLORIDA
CORINNE LOHRUM
AR 99099
REGISTERED ARCHITECT

DRAWING HISTORY

No.	DATE	DESCRIPTION

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS / PERMIT SET
DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPD EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
OVERALL REFLECTED CEILING PLAN - EVIDENCE/ FIRING RANGE

SHEET NUMBER
A3.10E

GENERAL NOTES

A REFER TO SHEETS G0.01E FOR GENERAL ABBREVIATIONS AND ARCHITECTURAL SYMBOLS.
B REFER TO SHEET SERIES G1.00E FOR LIFE SAFETY PLANS.
C ALL CEILING HEIGHTS ARE ABOVE FINISHED FLOOR.
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G REFER TO SHEET I2.21 FOR FINISH SCHEDULES AND FINIFH IDENTIFICATION SCHEDULES.
H REFER TO ELECTRICAL DRAWINGS FX, EL AND ET FOR COORDINATION OF ALL ELECTRICAL ITEMS SHOWN IN CEILING PLAN.
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K COMMUNICATION DEVICES AND CEILING MOUNTED EQUIPMENT TO BE CENTERED IN CEILING TILE UNO.
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O ACCESS PANELS TO BE PAINTED TO MATCH ADJACENT CEILING FINISH UNO.

SHEET NOTES

1 OPEN TO ABOVE

LIFE SAFETY SYMBOLS

UNRATED PARTITION
SMOKE PARTITION
1 HOUR FIRE BARRIER

INSULATION VALUES

CLIMATE ZONE 1A, CITY OF RIVIERA BEACH, FL (WARM-HUMID COUNTY) PALM BEACH COUNTY
HEATING LOAD - MAX 72 DEG. F
COOLING LOAD - MIN. 75 DEG. F

SPEC NO.	DESCRIPTION	DEPTH	R-VALUE
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072113.R01	MASS (RIGID BOARD, EPS)	1 INCHES	R-5.7 ci
--	UNDERSLAB RIGID INSULATION	NR	NR
--	OPAQUE DOORS, NON-SWINGING*	--	R-4.75
SPEC NO.	**DESCRIPTION**	**DEPTH**	**U-VALUE**
--	FENESTRATION, FIXED	NR	0.50

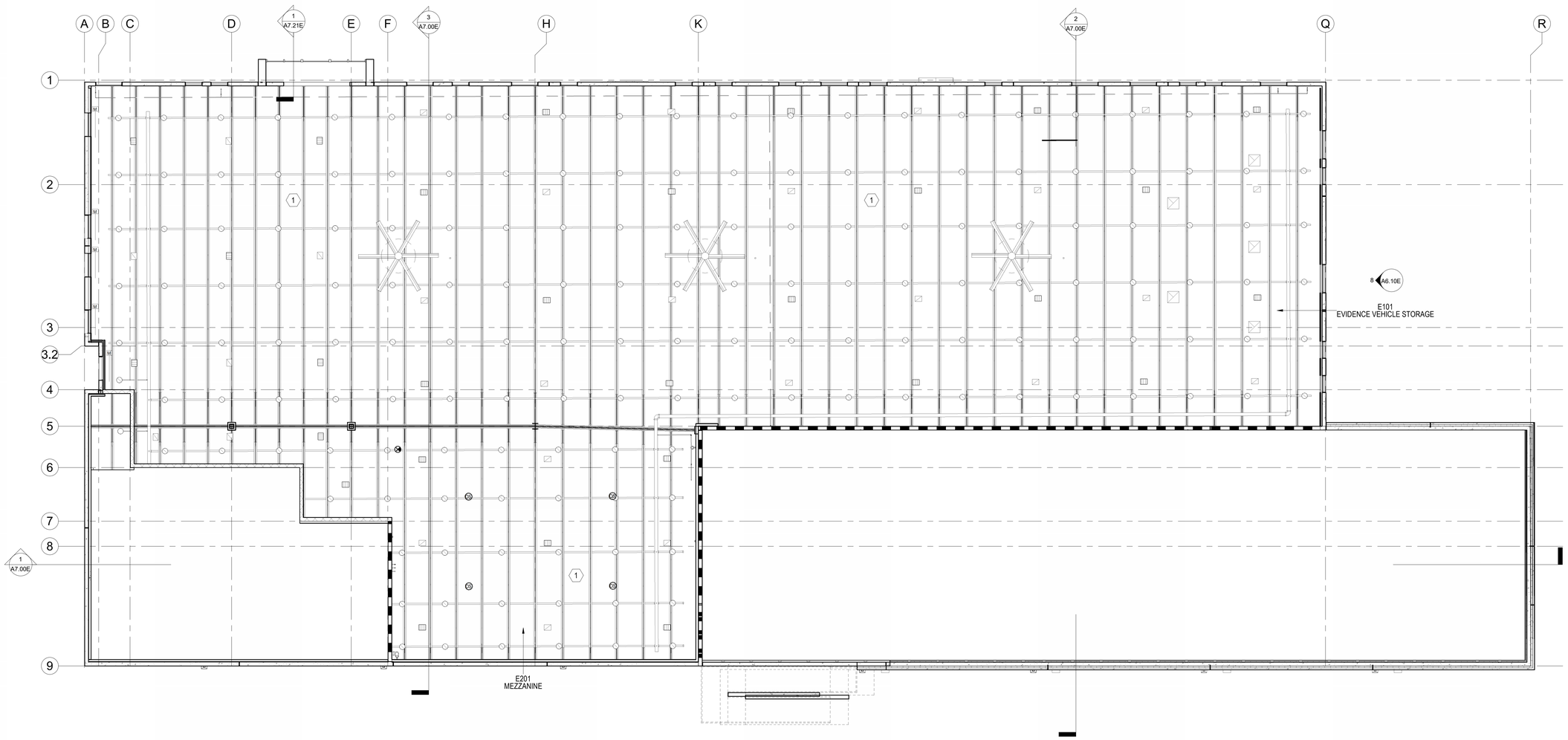
SPEC NO.	DESCRIPTION	ORIENTATION	SHGC
--	FENESTRATION, FIXED	NORTH	0.37
SPEC NO.	**DESCRIPTION**	**ORIENTATION**	**SHGC**
--	FENESTRATION, FIXED	S,W,E	0.30

PER FBC, ENERGY CONSERVATION, TABLE C402.1.3
R-VALUES BASED ON STANDARD R-6 PER 1-INCH DEPTH OF INSULATION.
*REQUIRED FOR TEMPERATURE CONTROLLED INTERIOR SPACES.

CEILING LEGEND

CEILING TYPES

ACOUSTICAL CEILING TILES 095113.A01
GYPSUM BOARD CEILING SYSTEM, UON 092900.A01
CONCRETE SOFFIT
OPEN TO STRUCTURE ABOVE



REFLECTED CEILING PLAN, MEZZANINE 1/8" = 1'-0" 1

PLAN NORTH

0 4' 8' 16' 24' 32'
1/8" = 1'-0" GRAPHIC SCALE

CLIENT

CITY OF RIVIERA BEACH
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ARCHITECT OF RECORD

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PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

STATE OF FLORIDA
JOHNNIE LOHRUM JR.
AR 96099
REGISTERED ARCHITECT

DRAWING HISTORY

No.	DATE	DESCRIPTION

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS / PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPD EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
OVERALL REFLECTED CEILING PLAN, MEZZANINE - EVIDENCE/ FIRING RANGE

SHEET NUMBER
A3.15E

FILE NAME: Autodesk Docs:// 1007657.00 - CORE - City of Riviera Beach D/1007657 - RBPD_Evidence_&_Fire_Range_Building.rvt
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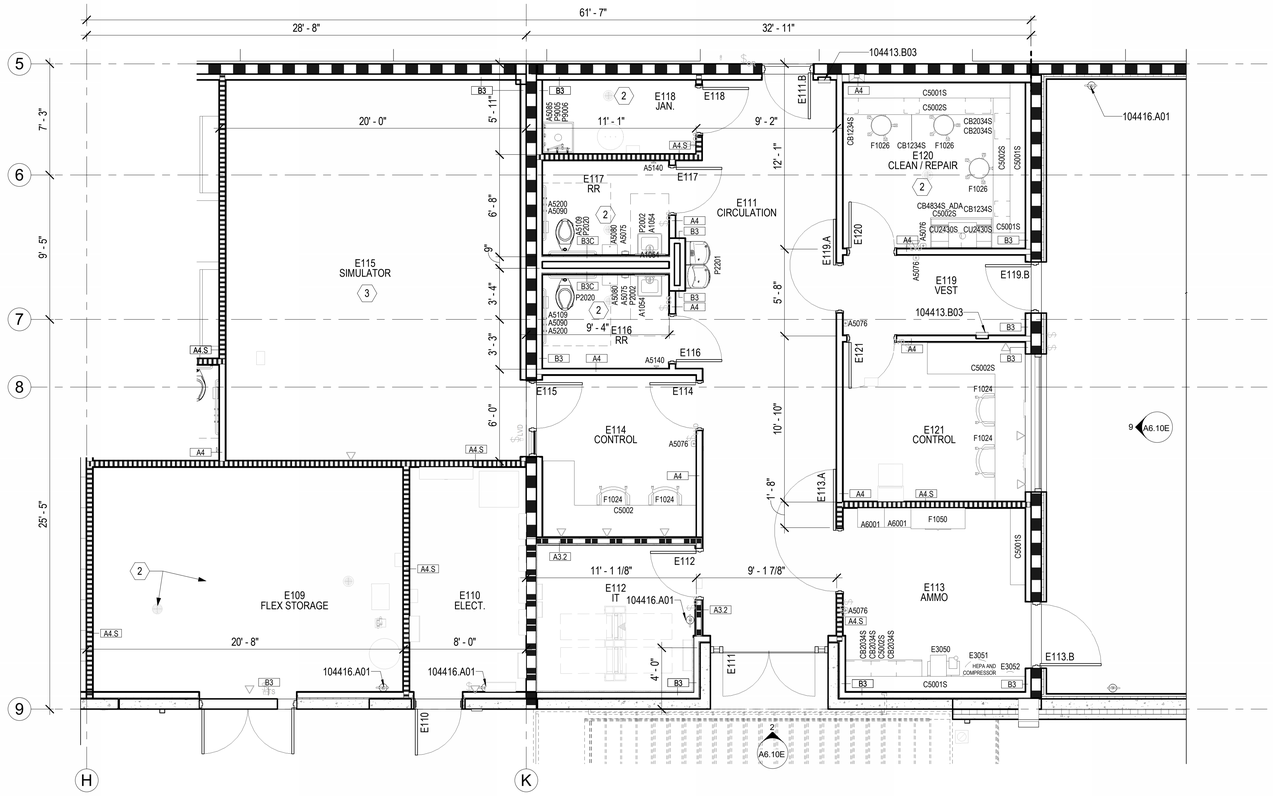
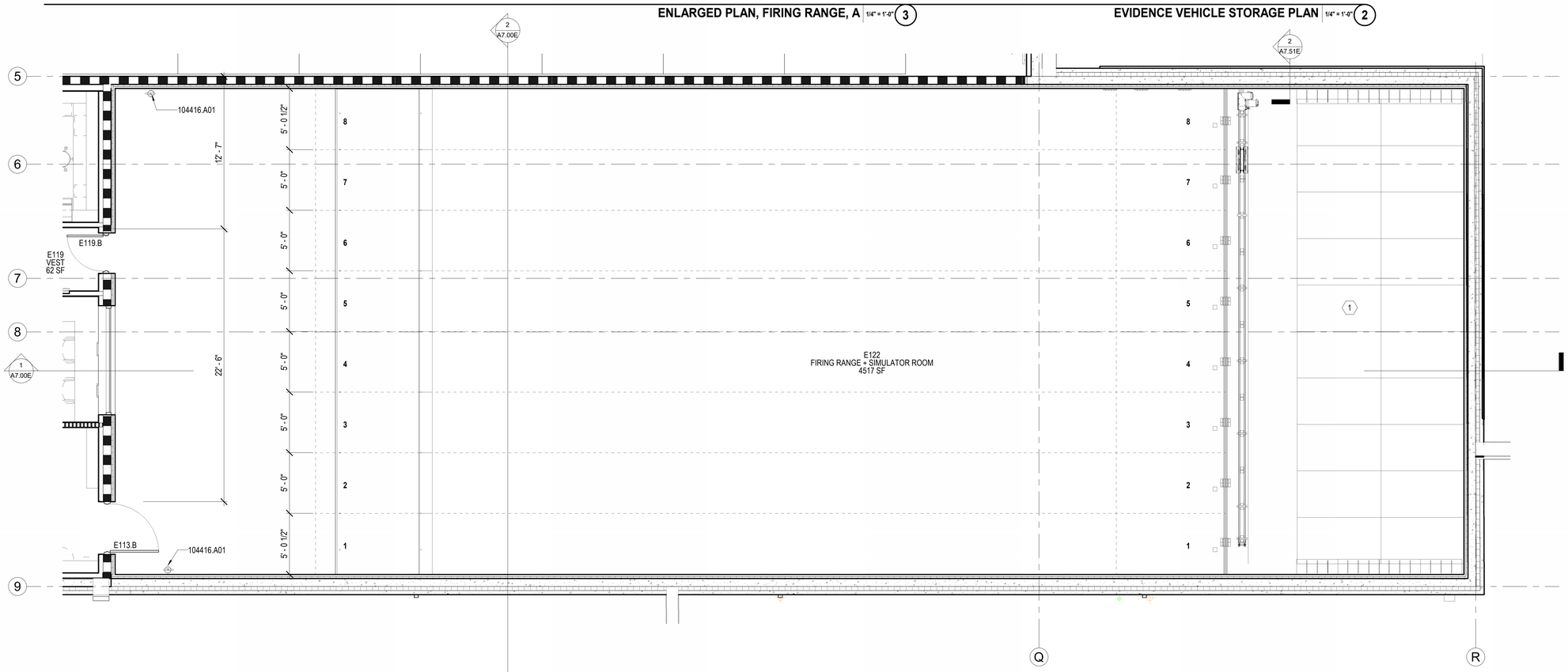


ENLARGED PLAN, FIRING RANGE, A | 1/4" = 1'-0" (3)

EVIDENCE VEHICLE STORAGE PLAN | 1/4" = 1'-0" (2)



ENLARGED PLAN, FIRING RANGE, B | 1/4" = 1'-0" (1)

PLAN NORTH

0 2' 4' 8' 12' 16'

1/4" = 1'-0" GRAPHIC SCALE

GENERAL NOTES

A REFER TO SHEETS G1.00E FOR GENERAL ABBREVIATIONS AND ARCHITECTURAL SYMBOLS.
B DASHED LINES REPRESENT ITEMS ABOVE.
C REFER TO SHEET I0.10 FOR PARTITION TYPES AND DETAILS. PARTITIONS NOT IDENTIFIED SHALL BE TYPE A3 UNO.
D REFER TO SHEET I0.30E FOR DOOR, WINDOW, LOUVER, AND STOREFRONT ELEVATIONS.
E REFER TO SHEETS I0.30E FOR DOOR SCHEDULE & FOR TYPICAL DOOR DETAILS.
F FOR LOCKERS AND TOILET ROOM DIMENSIONS, REFER TO ENLARGED FLOOR PLANS.
G DIMENSIONS ARE TO COLUMN GRID, FACE OF MASONRY/CONCRETE/PRECAST, FACE OF METAL STUD, UNO.
H PROVIDE ALL NECESSARY FIREPROOFING MATERIALS TO MAINTAIN REQUIRED RATINGS.
I REFER TO SHEET G1.00E FOR LIFE SAFETY PLANS.
J REFER TO PLUMBING SHEETS FOR FLOOR DRAIN LOCATION COORDINATION.
K REFER TO SHEET A8.00 FOR TYPICAL EQUIPMENT MOUNTING HEIGHTS.
L REFER TO STRUCTURAL SHEET FOR TILT UP PANEL ELEVATIONS, OPENING DIMENSIONS AND DETAILS.
M REFER TO SHEET SERIES I2.21 FOR FINISH SCHEDULE AND KEY TO FINISHES.
N REFER TO SHEET I0.10 FOR THROUGH PENETRATION FIRESTOP SYSTEM SCHEDULE AND WALL PRIORITIES.

SHEET NOTES

1 BULLET TRAP
2 FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION
3 SIMULATOR ROOM TO BE FURNISHED WITH BOD: TAVOR 5-O SPEAKERS AND BENQ TH671ST PROJECTOR. FLAT PAINT TO BE PROVIDED ON WALL TO RECIEVE PROJECTED IMAGE. CONTRATOR TO COORDINATE FINAL INSTALLATION LOCATIONS WITH OWNER. OWNER PROVIDED EQUIPMENT.

MATERIAL LEGEND

104413.B03 FIRE EXTINGUISHER CABINET, SEMI-RECESSED
104416.A01 FIRE EXTINGUISHER

CLIENT

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REGISTRATION

STATE OF FLORIDA — LORRAINE LORIUM — AR 0019399 — REGISTERED ARCHITECT

DRAWING HISTORY

No.	DATE	DESCRIPTION

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS / PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPD EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
ENLARGED EQUIPMENT PLAN - LEVEL 1

SHEET NUMBER
A4.01E

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/1007657 - RBPD_Evidence_&_Fire_Range_Building.rvt
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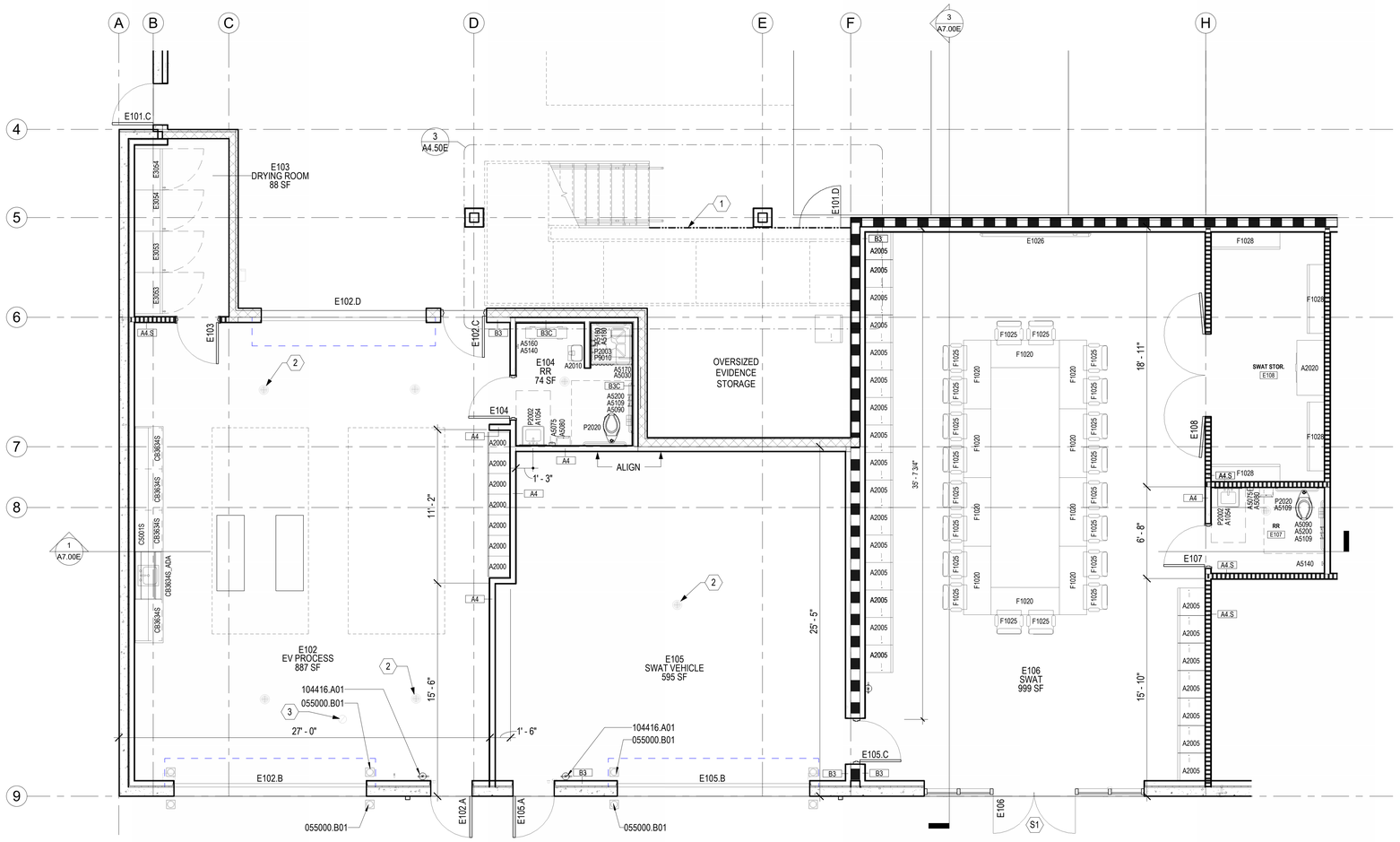

ENLARGED_FLOOR PLAN_01 LEVEL 1/4" = 1'-0" (1)

FFE SCHEDULE

EQUIPMENT CODE	DESCRIPTION	MANUFACTURER	MODEL NO.	PROVIDED BY	REMARKS
A1054	MIRROR, WALL MOUNTED 36X18 STAINLESS STEEL FRAME	BOBRICK	B-2908	CFCI	
A2000	24" WIDE 24" DEEP 71" HIGH FOREMAN® PREMIUM PHENOLIC Z-TIER US-STYLE LOCKER WITH ALUMINUM EXTRUDED PROFILE W/BENCH	FOREMAN LOCKERS SYSTEMS	EU Z-STYLE LOCKER WITH BENCH | SIGNATURE	CFCI	
A2005	LOCKER 24" WIDE 24" DEEP 76" TALL	TBD	TBD	CFCI	
A2010	WASTEPAPER BASKET, STEP-ON	BOBRICK	B-9279	CFCI	
A2020	CABINET STYLE INDOOR MAGAZINE BY ARMAG				
A5030	ACCESSIBLE SHOWER SEAT, WALL MOUNTED, FOLD DOWN	BOBRICK	B-517/B-518	CFCI	
A5075	SOAP DISPENSER, WALL MOUNTED	BOBRICK	B-2012	CFCI	
A5076	HAND SANITIZER DISPENSER, MANUAL, WALL MOUNTED, ADA	BOBRICK	B-2012	CFCI	
A5080	PAPER TOWEL DISPENSER, WALL MOUNTED.	BOBRICK	B-9262	CFCI	
A5085	MOP HOLDER, WALL MOUNTED	BOBRICK	B-239X34	CFCI	
A5090	SANITARY NAPKIN DISPENSER, WALL MOUNTED, STAINLESS STEEL.	BOBRICK	B-270	CFCI	
A5109	ADA GRAB BARS, WALL MOUNTED 36" AND 48", STAINLESS STEEL.	BOBRICK	B-9806	CFCI	
A5140	GARMENT HOOK, WALL MOUNTED, STAINLESS STEEL	BOBRICK	B-9541	CFCI	
A5160	WOOD (MAPLE) LOCKER BENCH W/ STAINLESS STEEL PEDESTALS, 9 1/2" W X 36" L X 17 1/2" H	SCHOOL LOCKERS	BST-09XX	CFCI	
A5170	SHOWER ROD AND CURTAIN, CONCEALED MOUNTED, 1" DIAMETER, STAINLESS STEEL, VINYL CURTAIN (72"), STAINLESS STEEL CURTAIN RINGS.	BOBRICK	204-1 / 204-3	CFCI	
A5180	ACCESSIBLE GRAB BAR, WALL MOUNTED, STAINLESS STEEL, 24"	BOBRICK	B-9806	CFCI	
A5200	TOILET TISSUE DISPENSER WITH SHELF, WALL MOUNTED, STAINLESS STEEL.	BOBRICK	B-6867	CFCI	
A6001	HEAVY DUTY AMMO STORAGE CABINET, 21" W X 15" D X 72" H	AMMO STORAGE CABINET	SMS-20-AMMO-72	CFCI	
A7000	HIGH DENSITY BIKE RACK	URBAN RACKS	4SSS	CFCI	
A8000	WALKIE STRADDLE STACKER ELECTRIC FORKLIFT	CROWN	M 3200-20	CFCI	
ALS2	ALS - COMMON PATH				
E1026	SMART BOARD,	SMART BOARD	7000R SERIES WITH iQ, SBID-7286R	CFCI	
E3050	SINGE-STAGE PORTABLE ELECTRIC AIR COMPRESSOR, 2HP, 20 GL, 5.5 CFM.	INGERSOLL RAND	GARAGE MATE MODEL P1.5IU-A9	CFCI	
E3051	HEPA VACUUM, DRY, 55 GL, 2HP, HEPA FILTER 99.99% AT 0.3 MICRON	NIKKRO INDUSTRIES, INC	HD55110	CFCI	
E3052	AIR CARTRIDGE FILTER, FLOOR MOUNTED	HANKISSON	SPX HF SERIES, HF5-24-6DG	CFCI	
E3053	DRYING CABINET WITH UV LIGHT	LABCONCO	TBD	CFCI	
E3054	DRYING CABINET WITH WASHDOWN	LABCONCO	TBD	CFCI	
F1020	FLIP-TOP RECT TABLE SQUARED EDGE LAM T-LEG 24D 48W	TBD	TBD	OFOI	
F1024	CHAIR, STACKABLE WITH CHAIR	TBD	TBD	OFOI	
F1026	WORK STOOL	TBD	TBD	CFCI	
F1028	HEAVY DUTY SHELVES				
P2003	PREFABRICATED SHOWER PAN, 36" x 36", SOLID SURFACE, ADA	REFER TO PLUMBING SCHEDULE	REFER TO PLUMBING SCHEDULE	CFCI	
P2020	TOILET, FLOOR MOUNTED	REFER TO PLUMBING SCHEDULE	REFER TO PLUMBING SCHEDULE	CFCI	
P2201	ADA REFRIGERATOR FOUNTAIN WITH BOTTLE FILLER	REFER TO PLUMBING SCHEDULE	REFER TO PLUMBING SCHEDULE	CFCI	
P9005	MOP SINK BASIN, SURFACE MOUNTED	REFER TO PLUMBING SCHEDULE	REFER TO PLUMBING SCHEDULE	CFCI	
P9006	SERVICE SINK FAUCET	REFER TO PLUMBING SCHEDULE	REFER TO PLUMBING SCHEDULE	CFCI	
P9010	ACCESSIBLE, HAND-HELD SHOWER FIXTURE	REFER TO PLUMBING SCHEDULE	REFER TO PLUMBING SCHEDULE	CFCI	

CASEWORK SCHEDULE

CASEWORK NO.	DESCRIPTION	DEPTH	WIDTH	HEIGHT	QUANTITY	PROVIDED BY	REMARKS
C5001S	WALL MOUNTED SHELF	1' - 0"	<varies>	0' - 1"	6	CFCI	PL05
C5002	COUNTERTOP, PLAM	2' - 1"		2' - 10"	1	CFCI	PL03
C5002S	COUNTERTOP, STAINLESS STEEL	2' - 1"		2' - 10"	6	CFCI	PL05
CB1234S	BASE CABINET, STAINLESS STEEL	2' - 0"	1' - 0"	2' - 8 1/2"	3	CFCI	PL05
CB2034S	BASE CABINET, STAINLESS STEEL	2' - 0"	1' - 8"	2' - 8 1/2"	5	CFCI	PL05
CB3634S	BASE CABINET, STAINLESS STEEL	2' - 0"	3' - 0"	2' - 8 1/2"	4	CFCI	PL05
CB3634S_ADA	SINK COUNTER, ACCESSIBLE, WALL MOUNTED	2' - 0"	3' - 6"	2' - 8 1/2"	1	CFCI	PL03
CB4834S_ADA	SINK COUNTER, ACCESSIBLE, WALL MOUNTED	2' - 0"	4' - 0"	2' - 8 1/2"	1	CFCI	PL03
CU2430S	UPPER CABINETS, STAINLESS STEEL	1' - 0"	2' - 0"	2' - 6"	2	CFCI	PL05

GENERAL NOTES

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C REFER TO SHEET I0.10 FOR PARTITION TYPES AND DETAILS. PARTITIONS NOT IDENTIFIED SHALL BE TYPE A3 UNO.
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J REFER TO PLUMBING SHEETS FOR FLOOR DRAIN LOCATION COORDINATION.
K REFER TO SHEET A8.00 FOR TYPICAL EQUIPMENT MOUNTING HEIGHTS.
L REFER TO STRUCTURAL SHEET FOR TILT UP PANEL ELEVATIONS, OPENING DIMENSIONS AND DETAILS.
M REFER TO SHEET SERIES I2.21 FOR FINISH SCHEDULE AND KEY TO FINISHES.
N REFER TO SHEET I0.10 FOR THROUGH PENETRATION FIRESTOP SYSTEM SCHEDULE AND WALL PRIORITIES.

SHEET NOTES

1 SECURED FENCE
2 FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION
3 FLOOR CLEANOUT. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION

MATERIAL LEGEND

055000.B01 STEEL BOLLARD
104416.A01 FIRE EXTINGUISHER

PROCUREMENT LEGEND

OFCI: OWNER FURNISHED CONTRACTOR INSTALLED
OFOI: OWNER FURNISHED OWNER INSTALLED
CFCI: CONTRACTOR FURNISHED CONTRACTOR INSTALLED

NOTE: CONTRACTOR TO COORDINATE ALL FF&E ITEMS

PLAN NORTH

0 2' 4' 8' 12' 16'
1/4" = 1'-0" GRAPHIC SCALE

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

ARCHITECT OF RECORD

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JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

STATE OF FLORIDA
LYNNIE LONDRUM
AR 96299
REGISTERED ARCHITECT

DRAWING HISTORY

No.	DATE	DESCRIPTION

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS / PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPD EVIDENCE & FIRE RANGE BUILDING

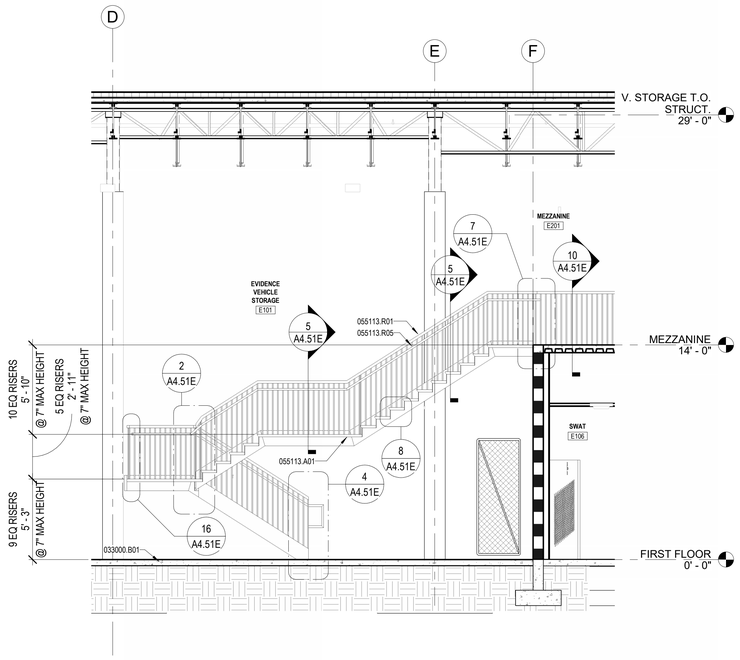
PROJECT LOCATION
2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

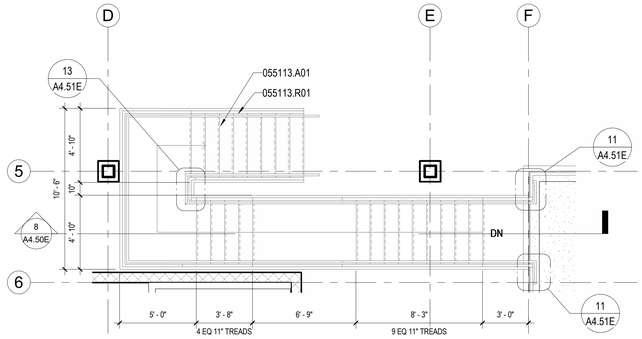
SHEET TITLE
ENLARGED EQUIPMENT PLAN - LEVEL 1

SHEET NUMBER
A4.02E

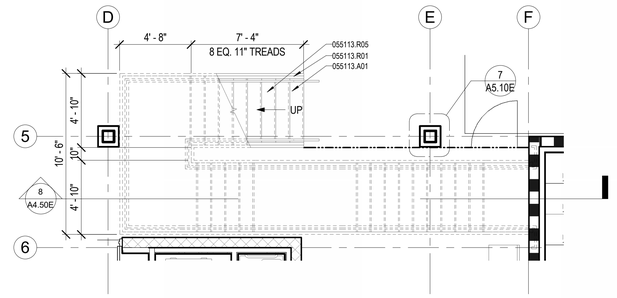
FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/1007657 - RBPD_Evidence_&_Fire_Range_Building.rvt
DATE STAMP: 10/23/2025 5:41:32 PM



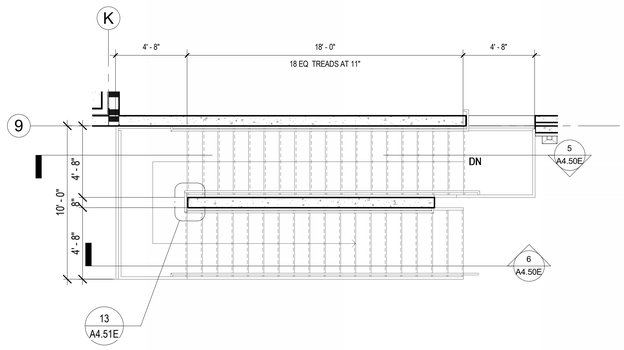
8 1/4" = 1'-0" **SECTION THRU EVIDENCE VEHICLE STORAGE STAIR**



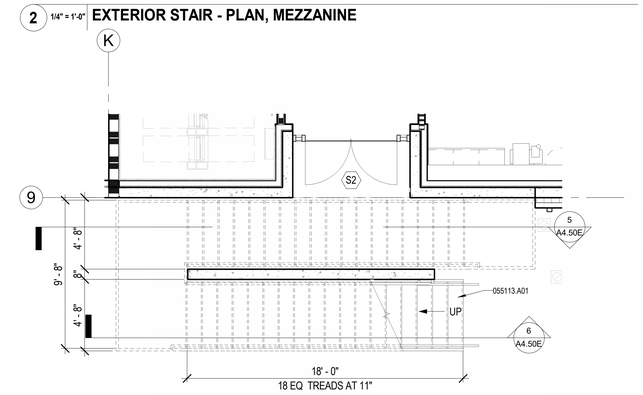
4 1/4" = 1'-0" **EVIDENCE VEHICLE STORAGE STAIR - PLAN, MEZZANINE**



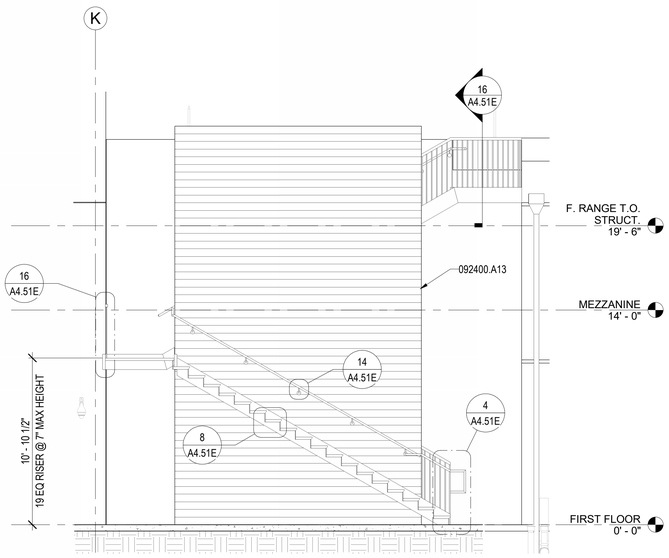
3 1/4" = 1'-0" **EVIDENCE VEHICLE STORAGE STAIR - PLAN**



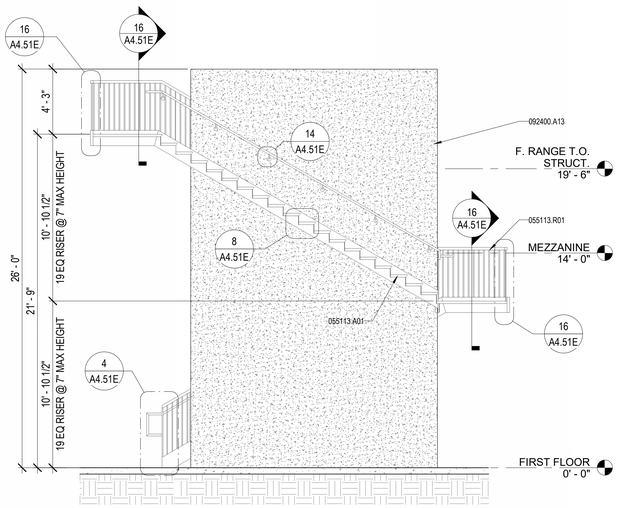
2 1/4" = 1'-0" **EXTERIOR STAIR - PLAN, MEZZANINE**



1 1/4" = 1'-0" **EXTERIOR STAIR - PLAN**



6 1/4" = 1'-0" **SECTION THRU EXTERIOR STAIR**



5 1/4" = 1'-0" **SECTION THRU EXTERIOR STAIR**

GENERAL NOTES

SHEET NOTES

MATERIAL LEGEND

033000.B01	CONCRETE SLAB
055113.A01	STEEL STAIR
055113.R01	STEEL GUARDRAIL
055113.R05	STEEL HANDRAIL
092400.A13	3-COAT STUCCO SYSTEM

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RIVIERA BEACH, FL
33404

PROJECT NUMBER
1007657.00

SHEET TITLE
STAIR PLANS AND SECTIONS

SHEET NUMBER
A4.50E

FILE NAME: Autodesk Docs:// 1007657.00 - CORE - City of Riviera Beach D/1007657 - RBPD_Evidence_&_Fire_Range_Building.rvt
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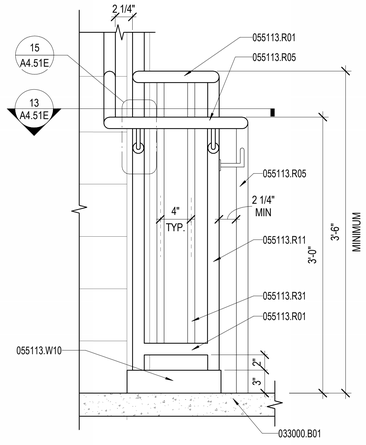
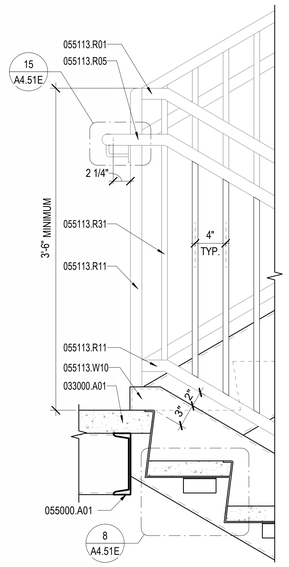
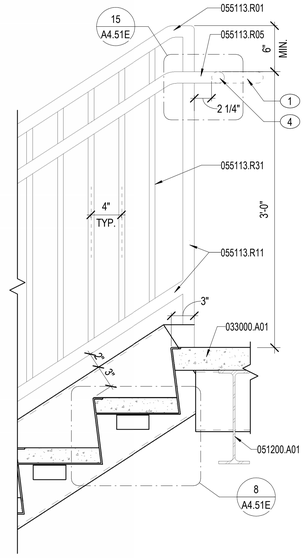


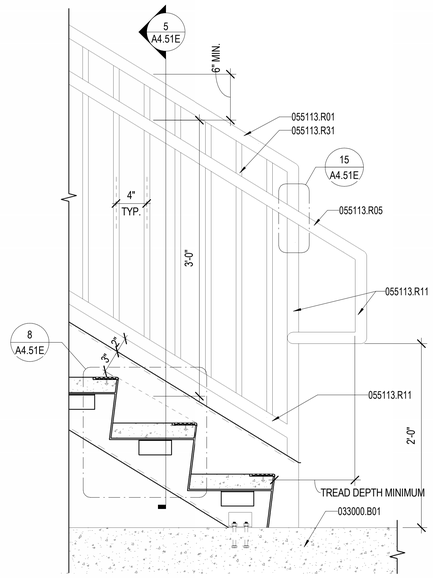
1 1 1/2" = 1'-0" **INTERMEDIATE LANDING**



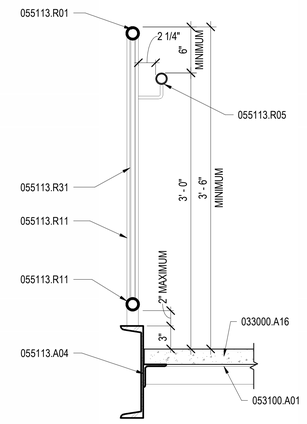
2 1 1/2" = 1'-0" **INTERMEDIATE LANDING**



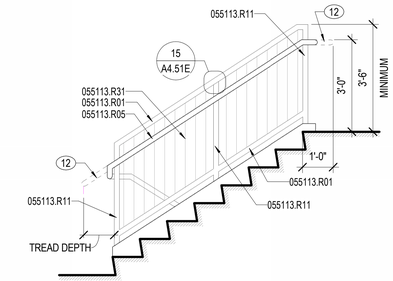
3 1 1/2" = 1'-0" **TOP LANDING, TYPICAL**



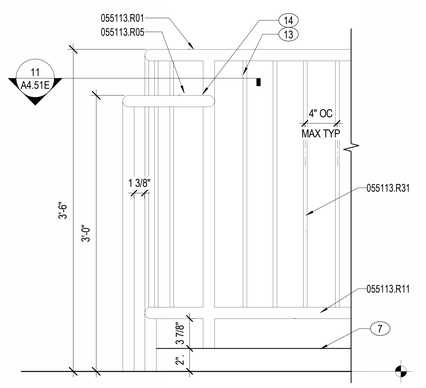
4 1 1/2" = 1'-0" **BOTTOM LANDING, TYPICAL**



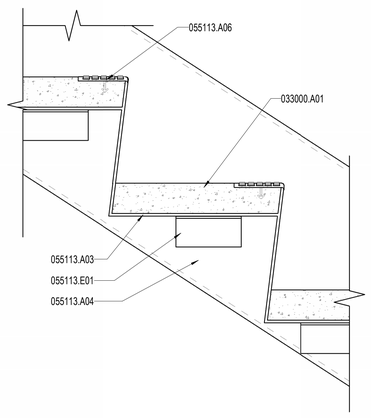
5 1 1/2" = 1'-0" **GUARDRAIL WITH HANDRAIL**



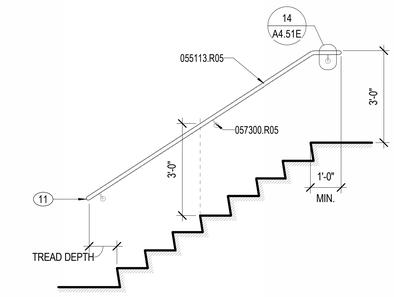
6 1/2" = 1'-0" **STAIR RAILING AT GUARDRAIL**



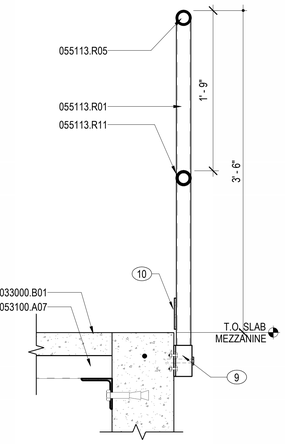
7 1 1/2" = 1'-0" **RAILING AND GUARDRAIL AT TOP LANDING**



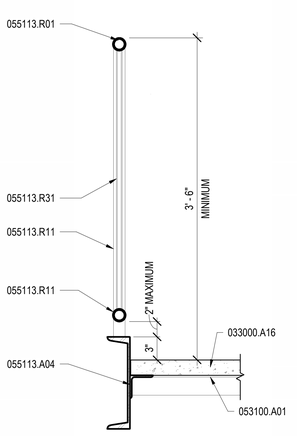
8 3" = 1'-0" **TYPICAL TREAD WITH SAFETY NOSING**



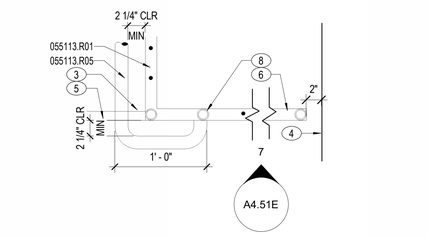
9 1/2" = 1'-0" **TYPICAL STAIR RAILING AT WALL**



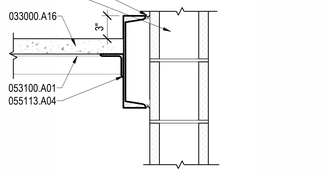
10 1 1/2" = 1'-0" **MEZZANINE GUARDRAIL DETAIL**



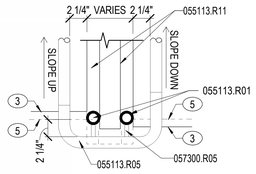
16 1 1/2" = 1'-0" **GUARDRAIL**



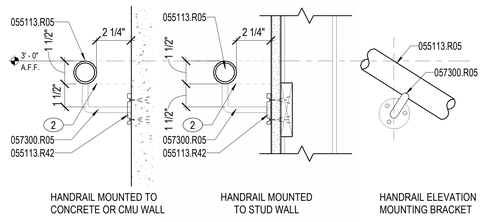
11 1 1/2" = 1'-0" **HANDRAIL AND GUARDRAIL AT TOP LANDING**



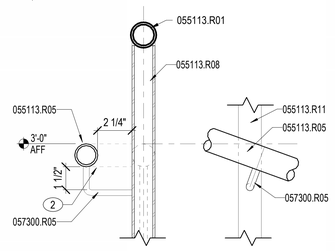
12 1 1/2" = 1'-0" **STAIR MID LANDING**



13 1 1/2" = 1'-0" **HANDRAIL/GUARDRAIL AT LANDING**



14 3" = 1'-0" **WALL MOUNTED HANDRAIL**



15 3" = 1'-0" **GUARDRAIL MOUNTED HANDRAIL**

GENERAL NOTES

1	CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
2	CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFORMATION BEFORE EXECUTION OF WORK.
3	DO NOT SCALE DIMENSIONS FROM DRAWINGS, ANY UNKNOWN DIMENSION SHALL BE OBTAINED FROM DESIGN PROFESSIONALS VIA REQUEST FOR INFORMATION (RFI).
4	CONTRACTOR SHALL FIELD COORDINATE LOCATION, SIZE AND TYPE OF BLOCKING FOR INSTALLATION OF SIGNAGE, PLUMBING FIXTURES, MILLWORK, ETC. ALL CONCEALED WOOD SHALL BE FIRE RETARDANT TREATED (F.R.T).
5	ALL SHAFTS PENETRATING SLABS SHALL BE RATED 2HR.
6	ALL ROOF SLOPES SHALL BE 1/4" PER FOOT U.N.O.
7	REFER TO SHEETS A5.01T AND A5.02T FOR TYPICAL ROOF DETAILS.

SHEET NOTES

1	WHERE GUARDRAIL DOES NOT OCCUR, EXTEND HANDRAIL 12" FROM FACE OF STAIR.
2	CLOSE ENDS OF HANDRAILS AND RETURN HANDRAIL TO WALL AT ENDS.
3	FRONT EDGE OF TREAD BELOW.
4	EXTEND WRAP AROUND HANDRAIL A MINIMUM OF 12" PAST FACE OF GUARDRAIL.
5	LINE OF RISER.
6	ANGLE AT EDGE OF SLAB
7	BENT CLOSURE PLATE AT EDGE OF SLAB.
8	VERTICAL GUARDRAIL POST
9	PIPE RAIL SLEEVE WITH SOLID BOTTOM AND SET SCREW
10	STEEL FILLER PLATE AT EDGE OF LANDING
11	SECURE FLASHING COLLAR FLANGE TO ROOF PANEL AND NOT TO METAL BEAD OF DECK.
12	WHERE HANDRAIL DOES NOT WRAP, EXTEND 12" BEYOND TOP (OR BOTTOM) RISER
13	1/2" DIAMETER STEEL ROD BALUSTERS SPACES 4" OC MAX.
14	WHERE HANDRAILS ARE SUPPORTED BY GUARDRAILS - ALL HANDRAIL TERMINATIONS WILL BE TO A VERTICAL GUARDRAIL POST.

MATERIALS LIST

033000.A01	CAST-IN-PLACE CONCRETE
033000.A16	CONCRETE TIE BEAM
033000.B01	CONCRETE SLAB
042200.D03	CMU 8"
051200.A01	STEEL BEAM
053100.A01	STEEL DECK
053100.A07	STEEL ROOF DECK
055000.A01	STEEL CHANNEL
055113.A03	STEEL PAN STAIR TREAD
055113.A04	STEEL CHANNEL STRINGER
055113.A06	SAFETY NOSING
055113.E01	STEEL PLATE
055113.R01	STEEL GUARDRAIL
055113.R05	STEEL HANDRAIL
055113.R08	STEEL GUARDRAIL POST
055113.R11	STEEL PIPE 1 1/2" OD NOM
055113.R31	ROD 1/2" DIA
055113.R42	WALL BRACKET FILLER PLATE
055113.W10	STEEL TOE PLATE
057300.R05	FLANGE
079200.Q01	JOINT SEALANT

0 1' 2' 4' 6' 8'
1/2" = 1'-0" GRAPHIC SCALE

0 6" 1' 2'
1½" = 1'-0" GRAPHIC SCALE

0 2" 4" 8" 1'
3" = 1'-0" GRAPHIC SCALE

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SHEET TITLE
VERTICAL CIRCULATION DETAILS

SHEET NUMBER
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FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/1007657 - RBPD_Evidence_&_Fire_Range_Building.rvt
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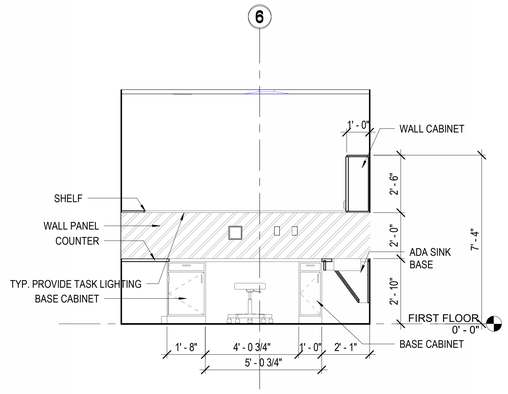
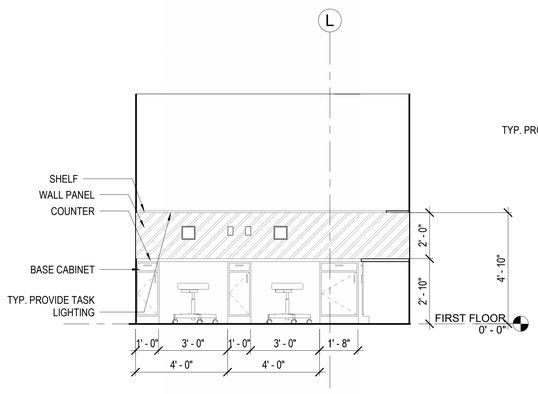
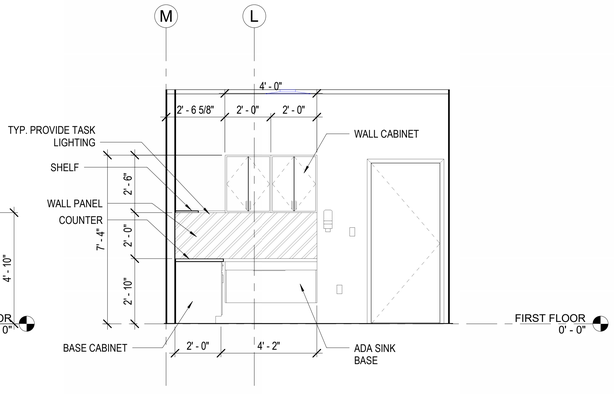


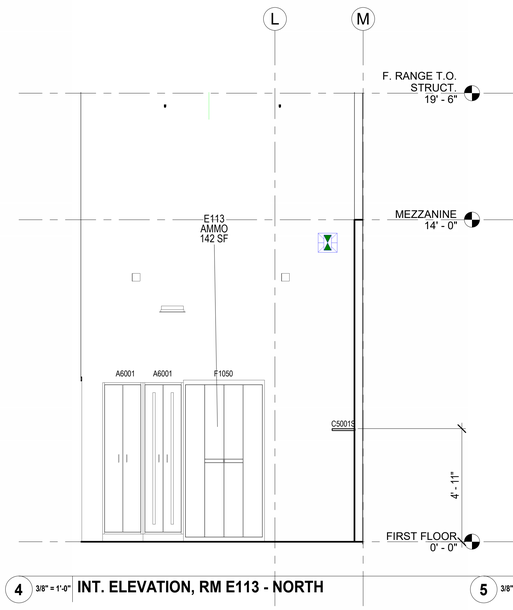
1 3/8" = 1'-0" **INT. ELEVATION, RM E120 - EAST**



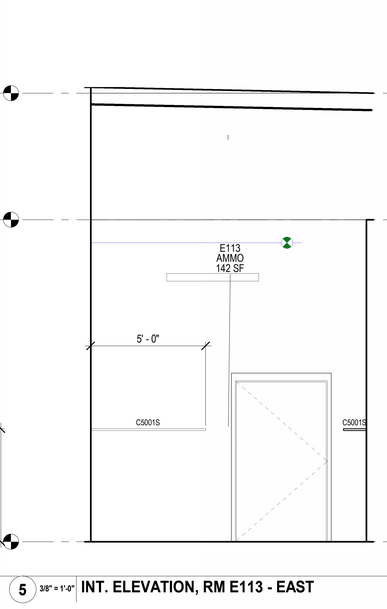
2 3/8" = 1'-0" **INT. ELEVATION, RM E120 - NORTH**



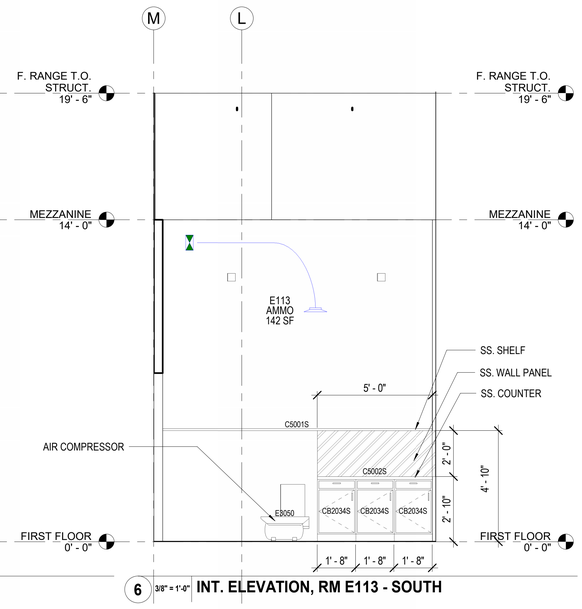
3 3/8" = 1'-0" **INT. ELEVATION, RM E120 - SOUTH**



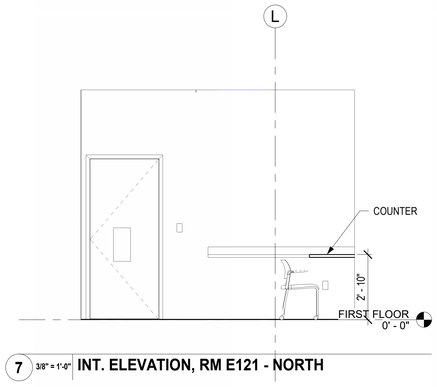
4 3/8" = 1'-0" **INT. ELEVATION, RM E113 - NORTH**



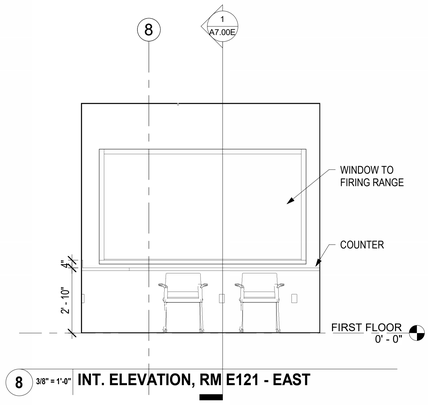
5 3/8" = 1'-0" **INT. ELEVATION, RM E113 - EAST**



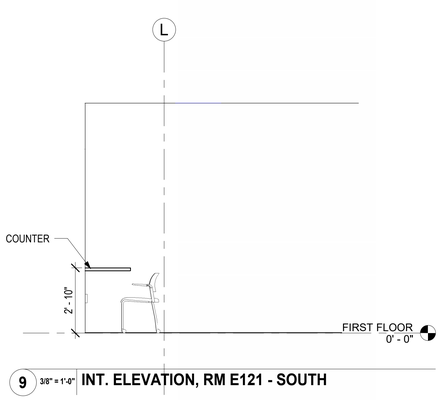
6 3/8" = 1'-0" **INT. ELEVATION, RM E113 - SOUTH**



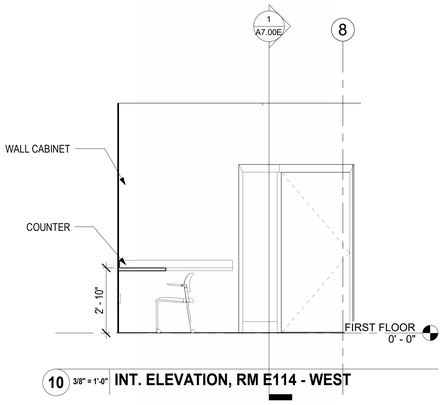
7 3/8" = 1'-0" **INT. ELEVATION, RM E121 - NORTH**



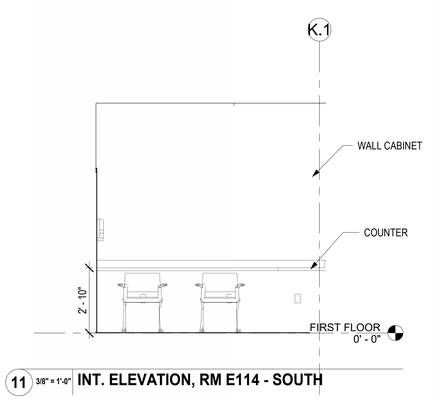
8 3/8" = 1'-0" **INT. ELEVATION, RM E121 - EAST**



9 3/8" = 1'-0" **INT. ELEVATION, RM E121 - SOUTH**



10 3/8" = 1'-0" **INT. ELEVATION, RM E114 - WEST**



11 3/8" = 1'-0" **INT. ELEVATION, RM E114 - SOUTH**

PLAN NORTH

0 1' 2' 4' 6' 8' 10'
3/8" = 1'-0" GRAPHIC SCALE

GENERAL NOTES

A FINISH SCHEDULE FOLLOW SHEET NORTH.

B REFER TO REFLECTED CEILING PLAN SHEETS A3.01E FOR CEILING HEIGHTS AND DESIGN COORDINATION.

C INTERIOR DOOR FRAMES AND INTERIOR WINDOW FRAMES PAINTED TO MATCH ADJACENT WALL, UNLESS OTHERWISE NOTED.

D FLOOR TRANSITIONS BETWEEN ROOMS TO BE AT CENTER LINE OF DOOR, UNLESS OTHERWISE NOTED.

E CHANGES IN LEVEL OF 1/4" HIGH MAX ARE TO BE PERMITTED VERTICAL. CHANGES IN LEVEL BETWEEN 1/4" HIGH MINIMUM AND 1/2" HIGH MAXIMUM ARE TO BE BEVELED WITH A SLOPE NO STEEPER THAN 1:2.

F PAINT WALL BEHIND CORNER GUARDS AS SCHEDULED FINISH SCHEDULE.

G REFER TO SHEET A4.01E AND A4.02E FOR CASEWORK MATERIAL LEGEND, MISCELLANEOUS LEGEND.

H FINISHES INDICATED ARE THE APPROVED BASIS OF DESIGN TO CONVEY COLOR, PATTERN, TEXTURE AND SALIENT CHARACTERISTICS ONLY. THE LIST OF MANUFACTURER INFORMATION IS NOT INTENDED TO LIMIT THE SELECTION OF PRODUCTS PROVIDED BY OTHER MANUFACTURER. PRODUCT SUBSTITUTIONS MEETING THESE CRITERIA WILL BE CONSIDERED AND ARE TO BE REVIEWED BY THE ARCHITECT OF RECORD AND APPROVED BY THE USER GROUP.

SHEET NOTES

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

ARCHITECT OF RECORD

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CONSTRUCTION MANAGER/BUILDER

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1678 Kingston Road
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32750

REGISTRATION

STATE OF FLORIDA
LORRAINE LORIUM
AR 95099
REGISTERED ARCHITECT

DRAWING HISTORY

No.	DATE	DESCRIPTION

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS / PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPD EVIDENCE & FIRE RANGE BUILDING

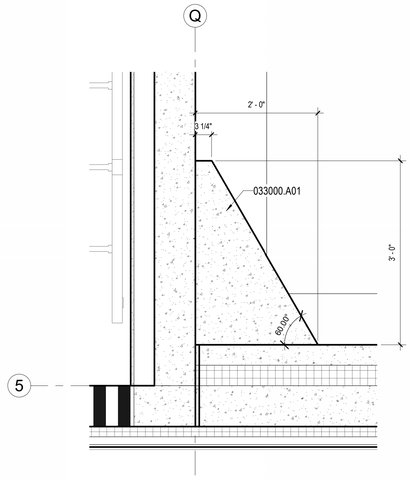
PROJECT LOCATION
2125 AVENUE S,
RIVIERA BEACH, FL
33404

PROJECT NUMBER
1007657.00

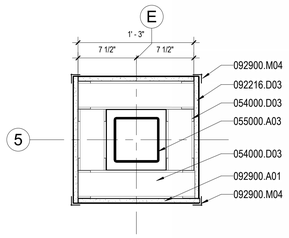
SHEET TITLE
INTERIOR ELEVATIONS

SHEET NUMBER
A4.03E

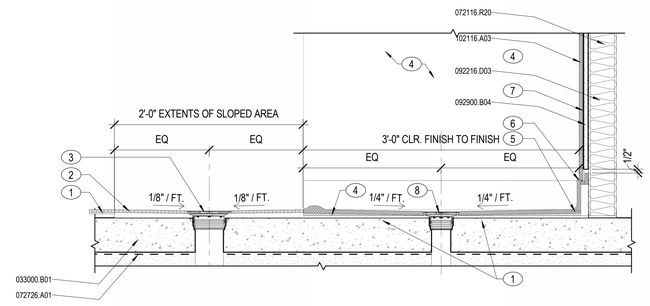
FILE NAME: Autodesk Docs://_1007657.00 - CORE - City of Riviera Beach D/1007657 - RBPD_Evidence_&_Fire_Range_Building.rvt
DATE STAMP: 10/23/2025 5:41:45 PM



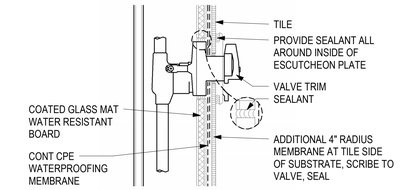
8 1" = 1'-0" **EXTERIOR CONCRETE PLAN DETAIL**



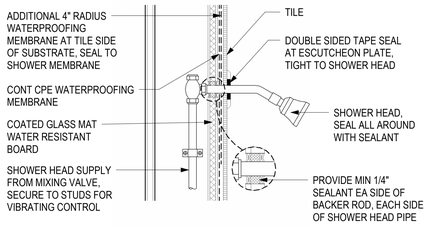
7 1 1/2" = 1'-0" **COLUMN DETAIL**



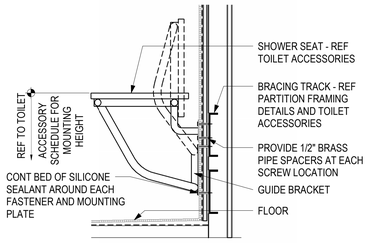
6 1 1/2" = 1'-0" **ADA COMPLIANT TRANSFER SHOWER**



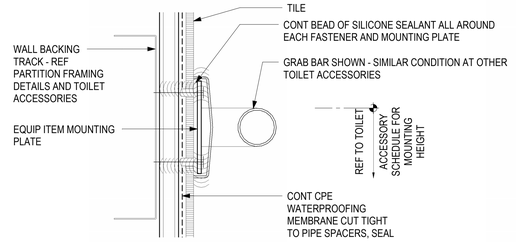
5 3" = 1'-0" **SHOWER CONTROL VALVE PENETRATION DETAIL**



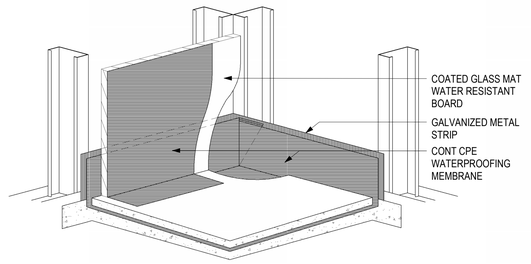
4 3" = 1'-0" **SHOWER HEAD PENETRATION DETAIL**



3 1 1/2" = 1'-0" **ACCESSIBLE SHOWER SEAT PENETRATION DETAIL**



2 6" = 1'-0" **TOILET ACCESSORIES PENETRATION DETAIL AT TILED WALL**



1 NOT TO SCALE **FOLDED CORNER AT RECESSED SHOWER**

GENERAL NOTES

A REFER TO SHEETS G-001 FOR GENERAL ABBREVIATIONS AND ARCHITECTURAL SYMBOLS.
B DASHED LINES REPRESENT ITEMS ABOVE.
C DASHED LINES AND ARROWS AT DOORS INDICATE MINIMUM ADA CLEARANCES AND APPROACHES.
D MILLWORK & SPECIALTY EQUIPMENT SHOWN FOR REFERENCE ONLY.
E PLUMBING FIXTURES SHOWN FOR REFERENCE ONLY. REFER TO PLUMBING SHEETS FOR MORE INFORMATION.
F REFER TO FINISH SCHEDULE ON AE802 FOR TILE COORDINATION.
G ALL FLOOR SLOPE LINES INDICATE SLOPE TO FLOOR DRAIN (2% SLOPE MAX) TYP WHERE SHOWN
H EVERY SOAP DISPENSER (COUNTER-MOUNTED OR WALL-MOUNTED) WILL BE OWNER PROVIDED. EVERY SHOWER WILL HAVE TWO SOAP DISPENSERS THAT WILL BE INSTALLED BY THE CONTRACTOR, TYP.
J CONTRACTOR TO SUPPLY AND INSTALL SURFACED MOUNTED TOILET SEAT COVER DISPENSERS (102800.A50) FOR ALL TOILETS
K ALL APPLICABLE ITEMS IN LOCKER ROOMS, FAMILY CHANGING ROOMS AND TOILET ROOMS TO BE INSTALLED WITH STAINLESS STEEL HARDWARE, TYP

SHEET NOTES

1 LATEX MODIFIED 3/16" THICK THIN-SET, TYP.
2 REFER TO FINISH SCHEDULE FOR FINISH.
3 FLOOR DRAIN, REFER TO PLUMBING DRAWINGS.
4 POLYURETHANE EXPANDING FOAM. (PART OF BASE)
5 COVED PERIMETER.
6 1/8" SILICONE SEAL AT BASE OF WALL PANEL.
7 1/16" SILICONE ADHESIVE BEHIND WALL PANEL.
8 SHOWER DRAIN, REFER TO PLUMBING DRAWINGS.

MATERIALS LIST

033000.A01	CAST-IN-PLACE CONCRETE
033000.B01	CONCRETE SLAB
054000.D03	METAL STUD 3 5/8"
055000.A03	STEEL TUBE
072116.R20	SOUND ATTENUATION BATTS
072726.A01	FLUID-APPLIED AIR BARRIER, VAPOR-RETARDING
092216.D03	METAL STUD 3 5/8"
092900.A01	GYPSUM BOARD, REGULAR 5/8"
092900.B04	GYPSUM BOARD TILE BACKER UNIT, GLASS MAT FACED, 5/8"
092900.M04	CORNERBEAD
102116.A03	PHENOLIC-CORE SHOWER/DRESSING COMPARTMENT

0 6" 1' 2' 3' 4'
1" = 1'-0" GRAPHIC SCALE

0 6" 1' 2'
1½" = 1'-0" GRAPHIC SCALE

0 2" 4" 8" 1'
3" = 1'-0" GRAPHIC SCALE

0 1" 2" 3" 6"
6" = 1'-0" GRAPHIC SCALE

CLIENT

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REGISTRATION

STATE OF FLORIDA · LORRAINE LORIUM · AR 96289 · REGISTERED ARCHITECT

DRAWING HISTORY

No.	DATE	DESCRIPTION

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS / PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPD EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
2125 AVENUE S,
RIVIERA BEACH, FL
33404

PROJECT NUMBER
1007657.00

SHEET TITLE
PLAN DETAILS

SHEET NUMBER
A5.10E

FILE NAME: Autodesk Docs://_1007657.00 - CORE - City of Riviera Beach D/1007657 - RBPD_Evidence_&_Fire_Range_Building.rvt
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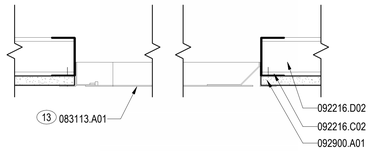
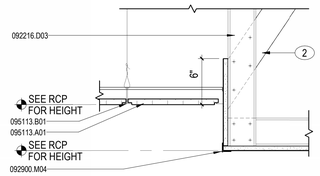
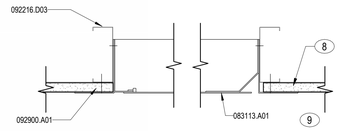
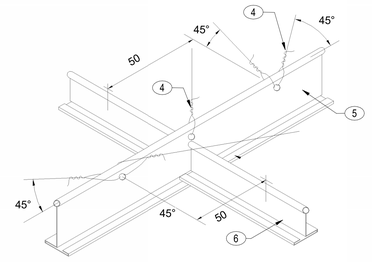




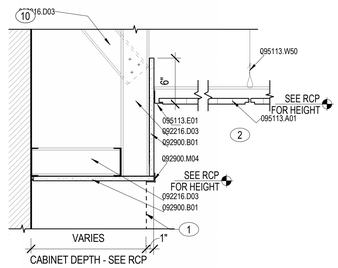
5 1 1/2" = 1'-0" BULKHEAD DETAIL



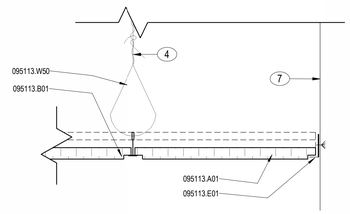
4 3" = 1'-0" ACCESS PANEL



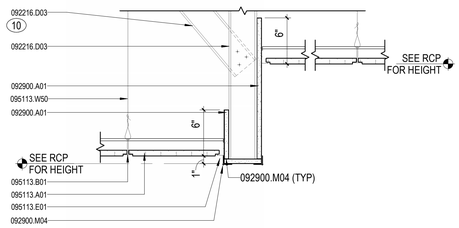
8 3" = 1'-0" CEILING ACCESS HATCH DETAIL



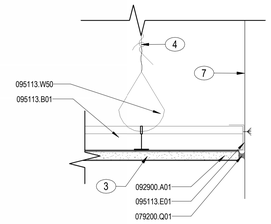
3 3" = 1'-0" SUSPENSION SYSTEM DETAIL



7 1 1/2" = 1'-0" BULKHEAD AT CABINET/CASEWORK



2 3" = 1'-0" ACT CEILING DETAIL



F4 1 1/2" = 1'-0" BULKHEAD DETAIL

1 3" = 1'-0" GYPSUM BOARD CEILING DETAIL

GENERAL NOTES

A REFER TO SHEETS G0.01E FOR GENERAL ABBREVIATIONS AND ARCHITECTURAL SYMBOLS.

B ATTACH ALL GRID SUPPORTED LIGHT FIXTURES TO CEILING AND ALSO TO BUILDING STRUCTURE.

C REFER TO SHEET AF2.10E FOR FINISH SCHEDULE.

SHEET NOTES

1 CASEWORK.
2 BRACING AS REQUIRED. SECURE TO STRUCTURE ABOVE.
3 SUBSTITUTE REGULAR GYPSUM BOARD WITH GYPSUM BOARD GLASS MAT FACED AT WET AREAS.
4 SECURE TO STRUCTURE ABOVE.
5 MAIN RUNNER.
6 CROSS RUNNER.
7 FINISHED FACE OF PARTITION.
8 SUBSTITUTE REGULAR GYPSUM BOARD WITH GYPSUM BOARD GLASS MAT FACED AT WET AREAS
9 REFER TO RCP FOR DIMENSIONS.
10 EXTEND FRAMING TO STRUCTURE. TYPICAL.
11 OPERABLE HUFCOR PARTITION HEAD. SEE MANUFACTURER.
12 DIAGONAL BRACING 48" OC ALTERNATE SIDES PER MANUFACTURER'S RECOMMENDATION.
13 SEE REFLECTED CEILING PLAN FOR SIZE.

MATERIAL LEGEND

079200.Q01	JOINT SEALANT
083113.A01	ACCESS DOOR
092216.C02	METAL STUD RUNNER TRACK
092216.D02	METAL STUD 2 1/2"
092216.D03	METAL STUD 3 5/8"
092900.A01	GYPSUM BOARD, REGULAR 5/8"
092900.B01	GYPSUM BOARD, GLASS MAT FACED 5/8"
092900.M04	CORNERBEAD
095113.A01	ACOUSTICAL CEILING UNITS
095113.B01	EXPOSED-GRID ACOUSTICAL CEILING SYSTEM
095113.E01	WALL ANGLE
095113.W50	HANGER WIRE

0 6" 1' 2'
1½" = 1'-0" GRAPHIC SCALE

0 2" 4" 8" 1'
3" = 1'-0" GRAPHIC SCALE

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

ARCHITECT OF RECORD

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CONSTRUCTION MANAGER/BUILDER

CORE CONSTRUCTION
1641 Worthington Rd
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1678 Kingston Road
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32750

REGISTRATION

STATE OF FLORIDA
LYNNE LORIUM
AR 96289
REGISTERED ARCHITECT

DRAWING HISTORY

№	DATE	DESCRIPTION

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS / PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPD EVIDENCE & FIRE RANGE BUILDING

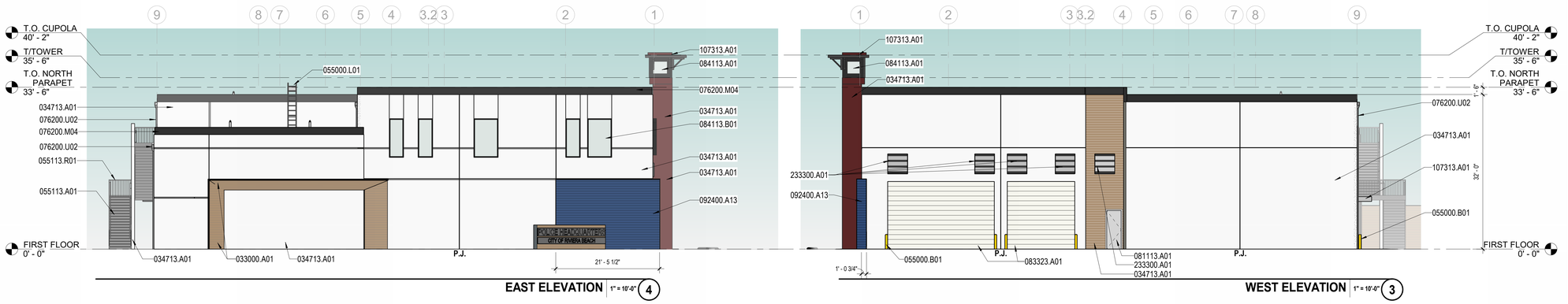
PROJECT LOCATION
2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
CEILING DETAILS

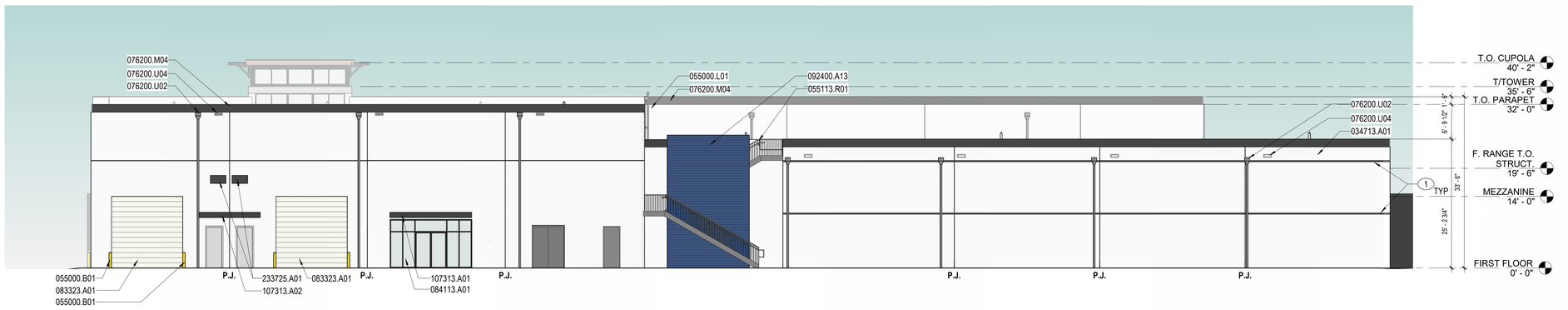
SHEET NUMBER
A5.20E

FILE NAME: Autodesk Docs:// 1007657.00 - CORE - City of Riviera Beach D/1007657 - RBPD_Evidence_&_Fire_Range_Building.rvt
DATE STAMP: 10/23/2025 5:41:51 PM

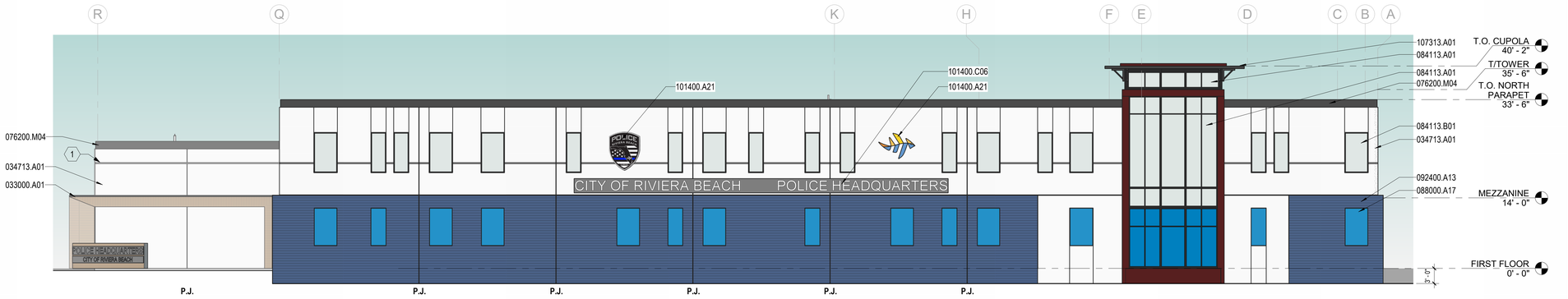


EAST ELEVATION 1" = 10'-0" 4

WEST ELEVATION 1" = 10'-0" 3



SOUTH ELEVATION 1" = 10'-0" 2



NORTH ELEVATION 1" = 10'-0" 1

GENERAL NOTES

1. DO NOT SCALE DRAWINGS. CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATIONS OR MISSING DIMENSIONS.
2. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFORMATION IN WRITING BEFORE EXECUTION OF WORK.
3. BUILDING FINISH FLOOR ELEVATION IS 0'-0" FOR ARCHITECTURAL COORDINATION.
4. REFER TO CIVIL DRAWINGS FOR ACTUAL DATUM, FINISH FLOOR ELEVATION.
5. ALL EXTERIOR PENETRATIONS, JOINTS, DOORS AND WINDOWS TO BE SEALED WITH SILICONE SEALANT. COLOR TO MATCH ADJACENT.
6. FINISHES, TRIM, DECORATIVE ELEMENTS ETC. SHALL WRAP ALL ELEVATIONS OF WALLS, ALCOVES, ETC. NOT ALL EXTERIOR WALL RETURNS (ELEVATIONS) MAY NOT BE SHOWN.
7. REFER TO STRUCTURAL DRAWINGS FOR "ALLOWABLE" DESIGN WIND PRESSURES. ALL DOORS, LOUVERS AND WINDOWS TO HAVE CURRENT MIAMI DADE N.O.A. AND FLORIDA PRODUCT APPROVALS.
8. UNLESS OTHERWISE NOTED; PROVIDE STANDARD PVC STUCCO EXPANSION JOINT ACCESSORY BETWEEN DIFFERENT PAINT COLORS

SHEET NOTES

1 TYPICAL 1 1/2" REVEAL

MATERIAL LEGEND

033000.A01	CAST-IN-PLACE CONCRETE
034713.A01	TILT-UP CONCRETE WALL PANEL
055000.B01	STEEL BOLLARD
055000.L01	STEEL LADDER
055113.A01	STEEL STAIR
055113.R01	STEEL GUARDRAIL
076200.M04	PARAPET COPING
076200.U02	DOWNSPOUT
076200.U04	SCUPPER
081113.A01	HOLLOW METAL DOOR
083323.A01	OVERHEAD COILING DOOR
084113.A01	GLAZED ALUMINUM STOREFRONT SYSTEM
084113.B01	ALUMINUM FIXED WINDOW
088000.A17	SPANDREL INSULATING GLASS UNIT
092400.A13	3-COAT STUCCO SYSTEM
101400.A21	ALUMINUM PANEL GRAPHIC SIGNAGE, CUTOUT
101400.C06	ILLUMINATED, FABRICATED CHANNEL DIMENSIONAL LETTERS
107313.A01	WALKWAY COVER SYSTEM
107313.A02	CANTILEVERED ALUMINUM SUNSHADE SYSTEM
233300.A01	EXTRUDED ALUMINUM WALL LOUVER
233725.A01	EXTRUDED ALUMINUM WALL LOUVER

EXTERIOR FINISH SCHEDULE

- COLOR A: MAIN EXTERIOR BUILDING
  SW 7008 ALABASTER
- COLOR B: ACCENT EXTERIOR BUILDING
  COLOR
  TEXTURED PAINT FINISH
  SW 6811 HONORABLE BLUE
- AREA TO RECEIVE FORMLINER PATTERN TO MATCH ADMIN BUILDING W/ TEXTURED PAINT FINISH; REFER TO SHEET KEYNOTES.
- ALUMINUM CANOPY SYSTEM; PAINTED REVEAL
  SW 7069 IRON ORE
  REFER TO SHEET KEYNOTES.
- MATERIAL: COMPOSITE ALUMINUM PANELING - ALPOLIC DBR DARK BRONZE ANODIZED
- ALUMINUM WINDOW OR STOREFRONT FRAMES
- TINTED INSULATING GLASS, REFER TO SPEC SECTION 88000 GLAZING
- INSULATED SPANDREL PANEL
  REFER TO SPEC SECTION 88000 GLAZING

CLIENT

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REGISTRATION

STATE OF FLORIDA
JENNIE LOHRUM
AR 96288
REGISTERED ARCHITECT

DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/9/2025	Site Plan Resubmission

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS / PERMIT SET

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RBPD EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
EXTERIOR ELEVATIONS - EVIDENCE/ FIRING RANGE

SHEET NUMBER
A6.00E

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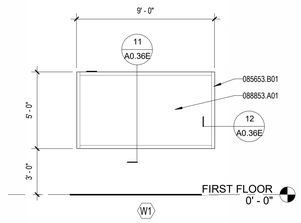
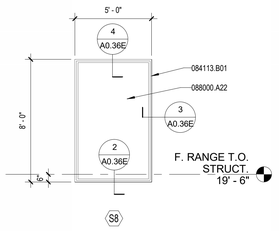


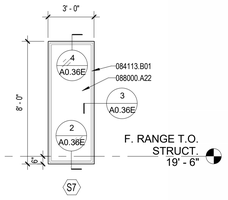
9 1/4" = 1'-0" **STOREFRONT ELEVATION W1**

BASIS OF DESIGN: TSS BL 5.5 FRAMING SYSTEM WITH McGRORT GLASS BALLISTIC DEFEND 4-GCP GLAZING (LEVEL 8 BULLET RESISTANT & SMOKE RATED)

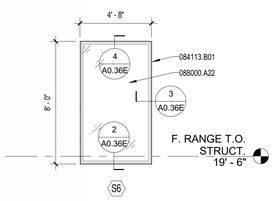


8 1/4" = 1'-0" **STOREFRONT ELEVATION S8**

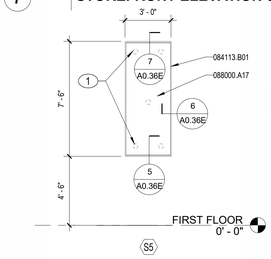
BASIS OF DESIGN: ENVIRALUM SERIES 450 LEVEL 3 E IMPACT FRAMING FLORIDA PRODUCT APPROVAL: FL#19002.1



7 1/4" = 1'-0" **STOREFRONT ELEVATION S7**

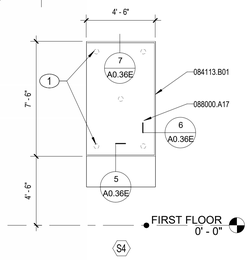


6 1/4" = 1'-0" **STOREFRONT ELEVATION S6**



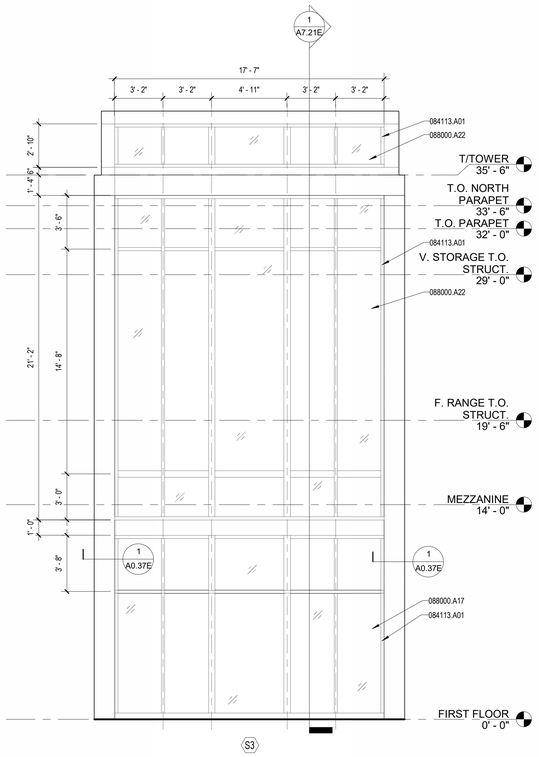
5 1/4" = 1'-0" **STOREFRONT ELEVATION S5**

BASIS OF DESIGN: ENVIRALUM SERIES 450 LEVEL 3 E IMPACT FRAMING FLORIDA PRODUCT APPROVAL: FL#19002.1



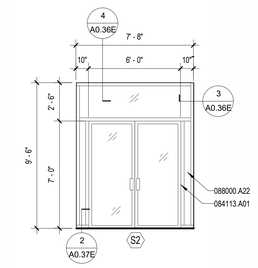
4 1/4" = 1'-0" **STOREFRONT ELEVATION S4**

BASIS OF DESIGN: ENVIRALUM SERIES 450 LEVEL 3 E IMPACT FRAMING FLORIDA PRODUCT APPROVAL: FL#19002.1



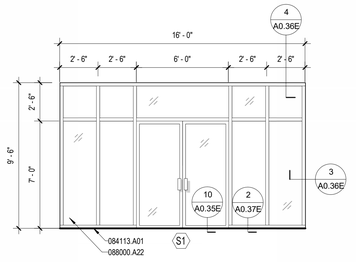
3 1/4" = 1'-0" **STOREFRONT ELEVATION S3**

BASIS OF DESIGN: ENVIRALUM SERIES 450 LEVEL 3 E IMPACT FRAMING FLORIDA PRODUCT APPROVAL: FL#19002.1



2 1/4" = 1'-0" **STOREFRONT ELEVATION S2**

BASIS OF DESIGN: ENVIRALUM SERIES 450 LEVEL 3 E IMPACT FRAMING FLORIDA PRODUCT APPROVAL: FL#19002.1
ENVIRALUM SERIES ENV-350 LEVEL E IMPACT - DOOR (L.M.I.) FLORIDA PRODUCT APPROVAL: FL#20701.5



1 1/4" = 1'-0" **STOREFRONT ELEVATION S1**

BASIS OF DESIGN: ENVIRALUM SERIES 450 LEVEL 3 E IMPACT FRAMING FLORIDA PRODUCT APPROVAL: FL#19002.1
ENVIRALUM SERIES ENV-350 LEVEL E IMPACT - DOOR (L.M.I.) FLORIDA PRODUCT APPROVAL: FL#20701.5

GENERAL NOTES

A REFER TO SHEETS G0.01E FOR GENERAL ABBREVIATIONS AND ARCHITECTURAL SYMBOLS.

B REFER TO SHEET A0.30E FOR DOOR SCHEDULES & TYPICAL DOOR DETAILS.

C ALL WINDOW PROFILES ARE GENERIC. REFER TO SPECIFICATIONS SECTIONS FOR PERFORMANCE REQUIREMENTS. SEE SECTION 084113 FOR STOREFRONT WINDOW, 084229 FOR AUTOMATIC ENTRANCE, 084413 FOR CURTAIN WALL, 085113 FOR ALUMINUM WINDOW.

D ALL INTERIOR GLAZING SHALL BE CLEAR, TEMPERED GLASS 088000.A04 UNO.

E ALL EXTERIOR GLAZING SHALL BE TINTED INSULATING GLASS, CLASS 'E' IMPACT RATED FOR RISK CATEGORY IV ESSENTIAL BUILDINGS. 088000.A09 UNO.

SHEET NOTES

1 4" PVC SLEAVE VENT, 5 PER OPENING.

MATERIAL LEGEND

084113.A01	GLAZED ALUMINUM STOREFRONT SYSTEM
084113.B01	ALUMINUM FIXED WINDOW
085653.B01	BULLET RESISTANT ALUMINUM FRAME
088000.A17	SPANDREL INSULATING GLASS UNIT
088000.A22	INSULATING-LAMINATED GLASS UNIT
088853.A01	LAMINATED-GLASS SECURITY GLAZING

CLIENT

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1678 Kingston Road
Longwood, FL
32750

REGISTRATION

STATE OF FLORIDA · JENNIE LOHRUM · AR 96299 · REGISTERED ARCHITECT

DRAWING HISTORY

No.	DATE	DESCRIPTION

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS / PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPD EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
STOREFRONT ELEVATIONS

SHEET NUMBER
A6.10E

FILE NAME: Autodesk Docs://_1007657.00_-_CORE_-_City_of_Riviera_Beach_D/1007657_-_RBPD_Evidence_&_Fire_Range_Building.rvt
DATE STAMP: 10/23/2025 5:42:08 PM

GENERAL NOTES

A REFER TO SHEETS G0.01E FOR GENERAL ABBREVIATIONS AND ARCHITECTURAL SYMBOLS.

B REFER TO SHEET SERIES "C" FOR CIVIL INFORMATION.

C PARAPET HEIGHTS ARE TO TOP OF TILT-WALL OR METAL STUD. PRESSURE TREATED WOOD NAILERS AND METAL COPING/ FLASHING OCCUR ABOVE THIS HEIGHT.

D REFER TO SHEETS A3.01E FOR INTERIOR CEILING CONDITIONS.

E R-VALUE FOR ALL ROOF INSULATION IS TO BE EQUAL TO FLORIDA BUILDING CODE REQUIREMENT FOR THE CLIMATE ZONE REGION (1A).

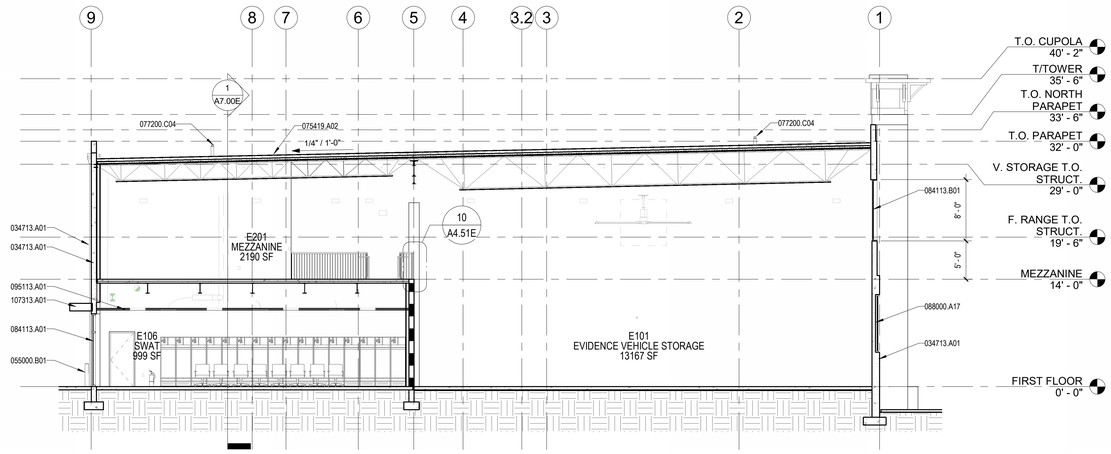
F REFER TO SHEET A2.51E FOR ROOF INFORMATION.

SHEET NOTES

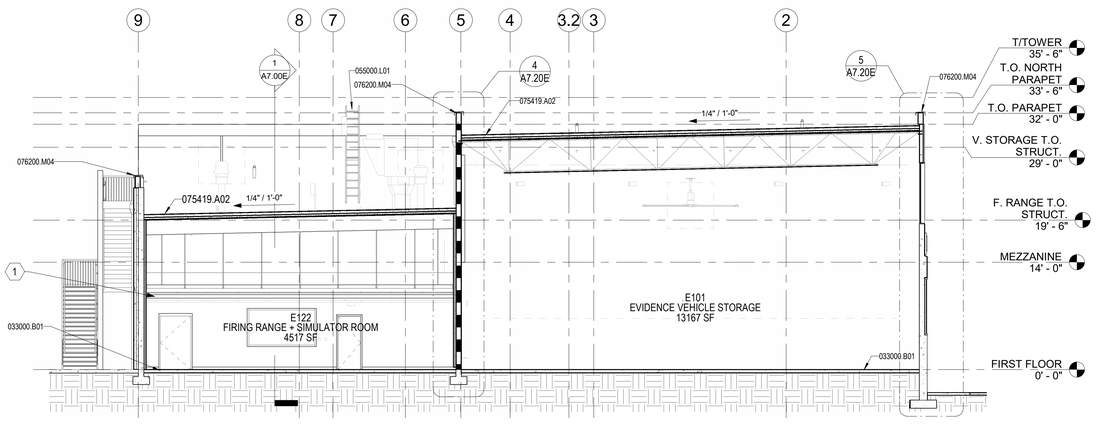
1 SAFETY CEILING
2 FIRING RANGE MECHANICAL EQUIPMENT BY VENDOR
3 BALLISTIC RATED BAFFLES
4 BULLET TRAP
5 ROOF TOP MECHANICAL EQUIPMENT. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION

MATERIAL LEGEND

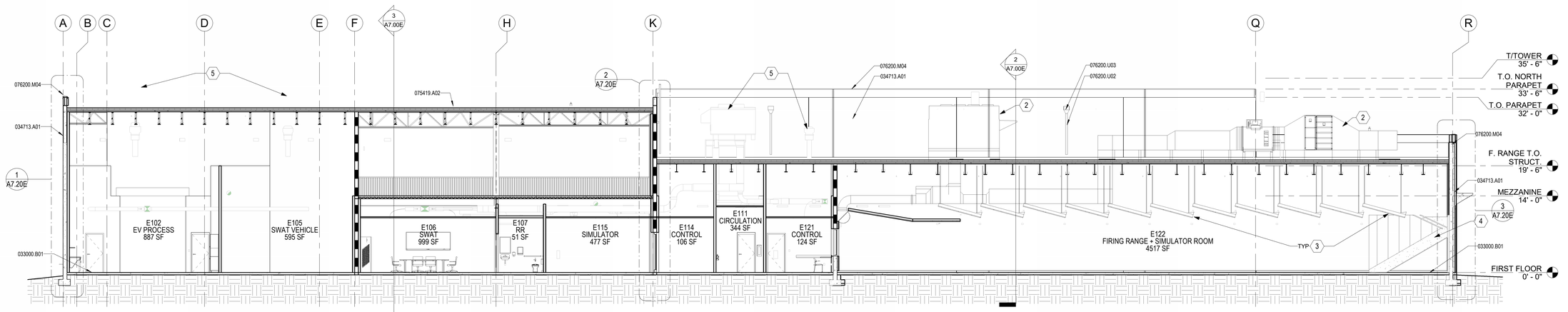
033000.B01	CONCRETE SLAB
034713.A01	TILT-UP CONCRETE WALL PANEL
055000.B01	STEEL BOLLARD
055000.L01	STEEL LADDER
075419.A02	SINGLE-PLY PVC ROOFING MEMBRANE, FULLY ADHERED
076200.M04	PARAPET COPING
076200.U02	DOWNSPOUT
076200.U03	CONDUCTOR HEAD
077200.C04	TIEBACK ANCHOR FOR FALL PROTECTION
084113.A01	GLAZED ALUMINUM STOREFRONT SYSTEM
084113.B01	ALUMINUM FIXED WINDOW
088000.A17	SPANDREL INSULATING GLASS UNIT
095113.A01	ACOUSTICAL CEILING UNITS
107313.A01	WALKWAY COVER SYSTEM



CROSS SECTION 1/8" = 1'-0" (3)



CROSS SECTION 1/8" = 1'-0" (2)



LONGITUDINAL SECTION 1/8" = 1'-0" (1)

0 4' 8' 16' 24' 32'
1/8" = 1'-0" GRAPHIC SCALE

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CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
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ARCHITECT OF RECORD

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JOHNNIE LOHRUM JR
AR 96099
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90% CONSTRUCTION DOCUMENTS / PERMIT SET

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10/14/2025

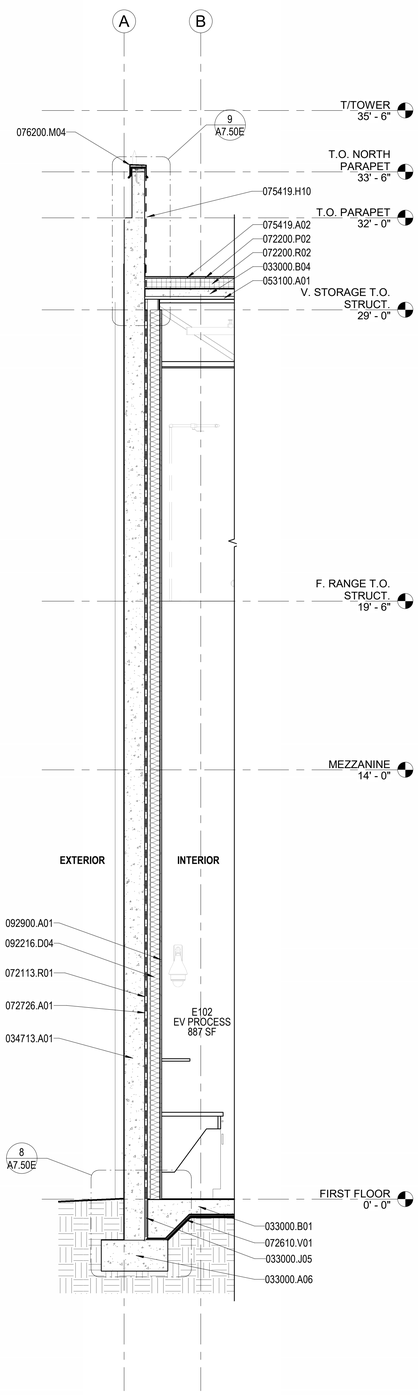
PROJECT NAME
RBPD EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
2125 AVENUE S, RIVIERA BEACH, FL 33404

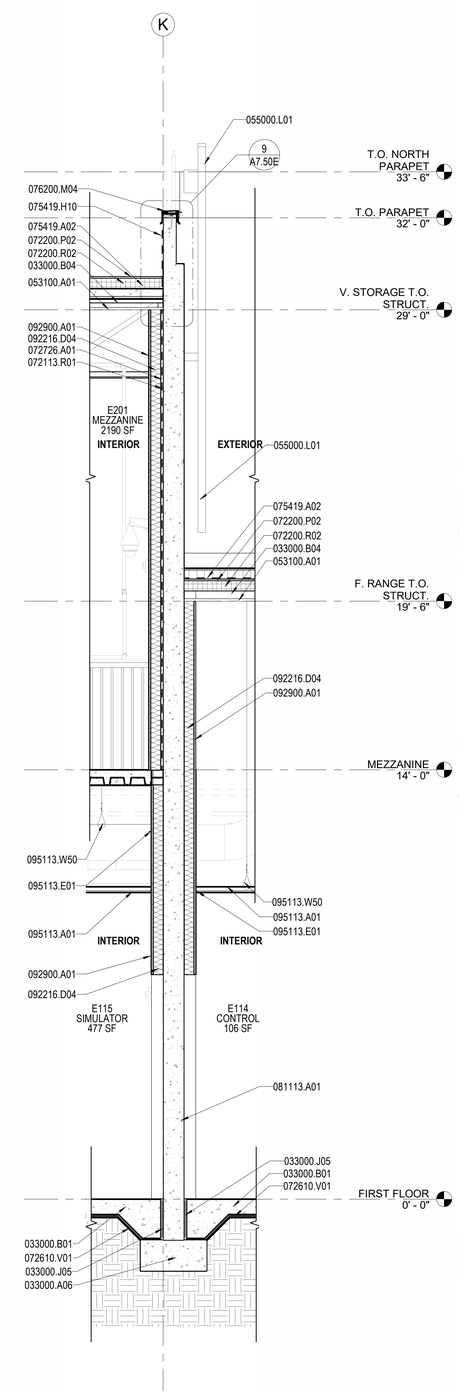
PROJECT NUMBER
1007657.00

SHEET TITLE
BUILDING SECTIONS - EVIDENCE/ FIRING RANGE

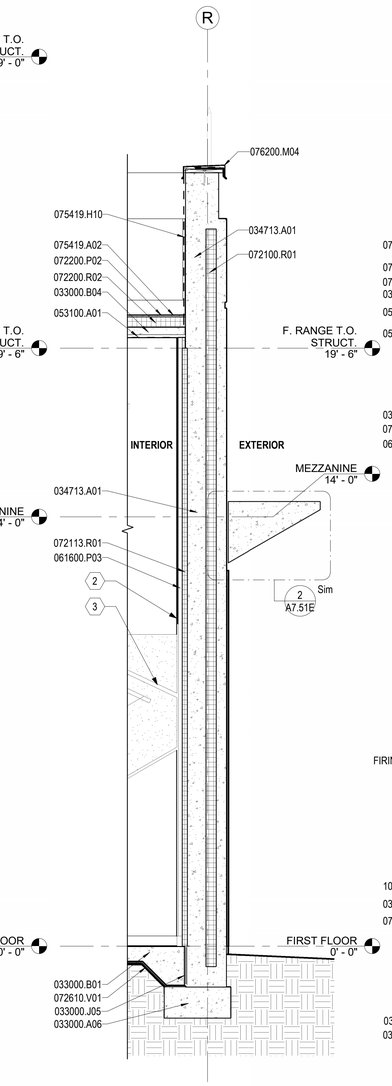
SHEET NUMBER
A7.00E



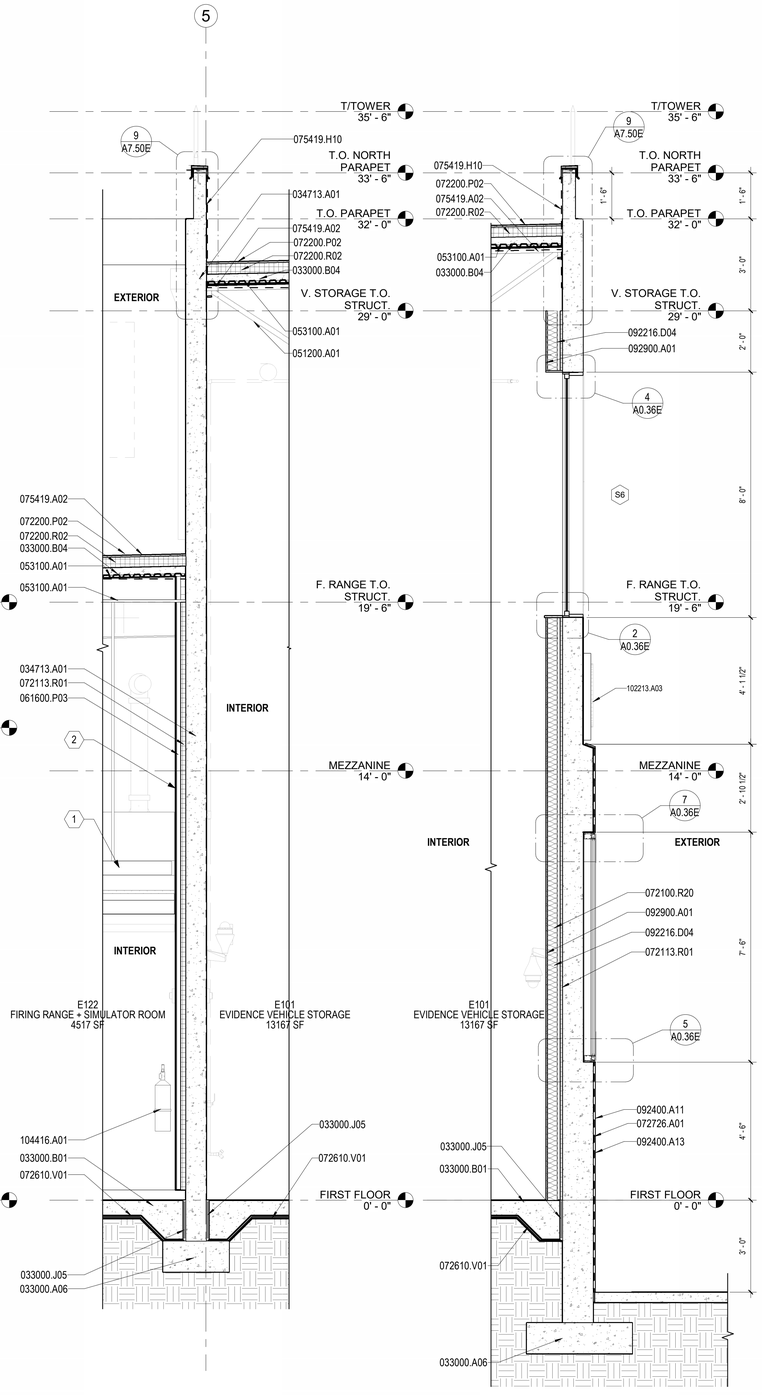
1 1/2" = 1'-0" **WALL SECTION**



2 1/2" = 1'-0" **WALL SECTION**



3 1/2" = 1'-0" **WALL SECTION**



4 1/2" = 1'-0" **WALL SECTION**

5 1/2" = 1'-0" **WALL SECTION**

GENERAL NOTES

A REFER TO SHEETS G0.01E FOR GENERAL ABBREVIATIONS AND ARCHITECTURAL SYMBOLS.

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C PARAPET HEIGHTS ARE TO TOP OF TILT-WALL OR METAL STUD. PRESSURE TREATED WOOD NAILERS AND METAL COPING/ FLASHING OCCUR ABOVE THIS HEIGHT.

D REFER TO SHEETS A3.01E FOR INTERIOR CEILING CONDITIONS.

E R-VALUE FOR ALL ROOF INSULATION IS TO BE EQUAL TO FLORIDA BUILDING CODE REQUIREMENT FOR THE CLIMATE ZONE REGION (1A).

F REFER TO SHEET A2.51E FOR ROOF INFORMATION.

SHEET NOTES

KEYNOTES: 0

1 BALLISTIC RATED BAFFLES
2 RUBBER WALL TILE
3 BULLET TRAP

MATERIAL LEGEND

033000.A06	CONCRETE FOOTING
033000.B01	CONCRETE SLAB
033000.B04	LIGHTWEIGHT AGGREGATE STRUCTURAL CONCRETE
033000.J05	PREFORMED JOINT FILLER
034713.A01	TILT-UP CONCRETE WALL PANEL
051200.A01	STEEL BEAM
053100.A01	STEEL DECK
055000.L01	STEEL LADDER
061600.P03	PLYWOOD WALL SHEATHING
072100.R01	BOARD INSULATION
072100.R20	SOUND ATTENUATION BATTS
072113.R01	BOARD INSULATION
072200.P02	GLASS MAT GYPSUM PROTECTION BOARD
072200.R02	ROOF INSULATION BOARD
072610.V01	UNDERSLAB VAPOR BARRIER
072726.A01	FLUID-APPLIED AIR BARRIER, VAPOR-RETARDING
075419.A02	SINGLE-PLY PVC ROOFING MEMBRANE, FULLY ADHERED
075419.H10	POLYVINYL-CHLORIDE (PVC) WALL FLASHING
076200.M04	PARAPET COPING
081113.A01	HOLLOW METAL DOOR
092216.D04	METAL STUD 4"
092400.A11	SELF FURRING DIAMOND MESH LATH
092400.A13	3-COAT STUCCO SYSTEM
092900.A01	GYPSUM BOARD, REGULAR 5/8"
095113.A01	ACOUSTICAL CEILING UNITS
095113.E01	WALL ANGLE
095113.W50	HANGER WIRE
102213.A03	HEAVY DUTY PARTITION
104416.A01	FIRE EXTINGUISHER

LIFE SAFETY SYMBOLS

UNRATED PARTITION
SMOKE PARTITION
1 HOUR FIRE BARRIER

INSULATION VALUES

CLIMATE ZONE 1A, CITY OF RIVIERA BEACH, FL (WARM-HUMID COUNTY) PALM BEACH COUNTY
HEATING LOAD - MAX 72 DEG. F
COOLING LOAD - MIN. 75 DEG. F

SPEC NO.	DESCRIPTION	DEPTH	R-VALUE
072200.R01	ROOF RIGID BOARD INSULATION (ENTIRELY ABOVE DECK)	3.5 INCHES	R-21ci
072113.R01	MASS (RIGID BOARD, EPS)	1 INCHES	R-5.7 ci
--	UNDERSLAB RIGID INSULATION	NR	NR
--	OPAQUE DOORS, NON-SWINGING*	--	R-4.75
SPEC NO.	**DESCRIPTION**	**DEPTH**	**U-VALUE**
--	FENESTRATION, FIXED	NR	0.50
SPEC NO.	**DESCRIPTION**	**ORIENTATION**	**SHGC**
--	FENESTRATION, FIXED	NORTH	0.37
SPEC NO.	**DESCRIPTION**	**ORIENTATION**	**SHGC**
--	FENESTRATION, FIXED	S,W,E	0.30

PER FBC, ENERGY CONSERVATION, TABLE C402.1.3
R-VALUES BASED ON STANDARD R-6 PER 1-INCH DEPTH OF INSULATION.
*REQUIRED FOR TEMPERATURE CONTROLLED INTERIOR SPACES.

0 1' 2' 4' 6' 8'
1/2" = 1'-0" GRAPHIC SCALE

CLIENT

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REGISTRATION

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LONNIE LOHRUM
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SHEET TITLE
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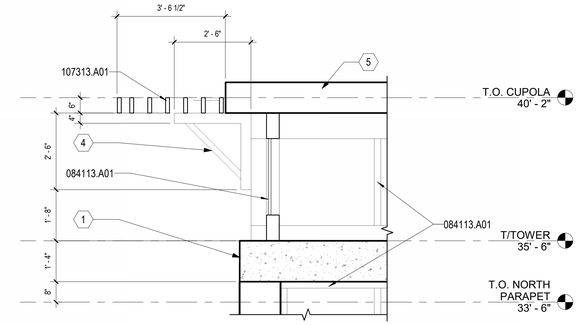
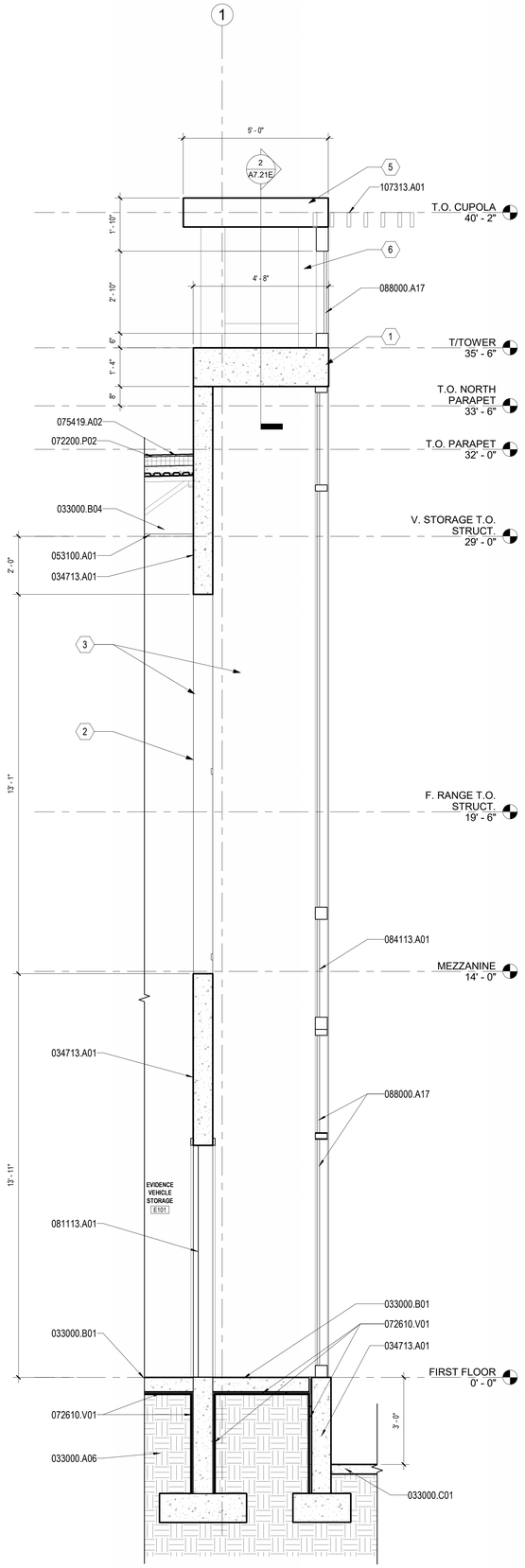


2 1/2" = 1'-0" TOWER SECTION



1 1/2" = 1'-0" WALL SECTION

GENERAL NOTES

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D REFER TO SHEETS A3.01E FOR INTERIOR CEILING CONDITIONS.
E R-VALUE FOR ALL ROOF INSULATION IS TO BE EQUAL TO FLORIDA BUILDING CODE REQUIREMENT FOR THE CLIMATE ZONE REGION (1A).
F REFER TO SHEET A2.51E FOR ROOF INFORMATION.

SHEET NOTES

KEYNOTES: 0

1 16" TILT-UP LID WITH ALPOLIC METAL CLADDING DRY JOINT SYSTEM.
2 OPENING.
3 TILT-UP WALL BEYOND.
4 PAINTED ALUMINUM BRACKET.
5 12" TUBE FRAMING ZINC COATED
6 WINDOW SYSTEM BEYOND

MATERIAL LEGEND

033000.A06	CONCRETE FOOTING
033000.B01	CONCRETE SLAB
033000.B04	LIGHTWEIGHT AGGREGATE STRUCTURAL CONCRETE
033000.C01	CONCRETE WALK
034713.A01	TILT-UP CONCRETE WALL PANEL
053100.A01	STEEL DECK
072200.P02	GLASS MAT GYPSUM PROTECTION BOARD
072610.V01	UNDERSLAB VAPOR BARRIER
075419.A02	SINGLE-PLY PVC ROOFING MEMBRANE, FULLY ADHERED
081113.A01	HOLLOW METAL DOOR
084113.A01	GLAZED ALUMINUM STOREFRONT SYSTEM
088000.A17	SPANDREL INSULATING GLASS UNIT
107313.A01	WALKWAY COVER SYSTEM

0 1' 2' 4' 6' 8'
1/2" = 1'-0" GRAPHIC SCALE

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PROJECT NUMBER
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SHEET TITLE
WALL SECTIONS

SHEET NUMBER
A7.21E

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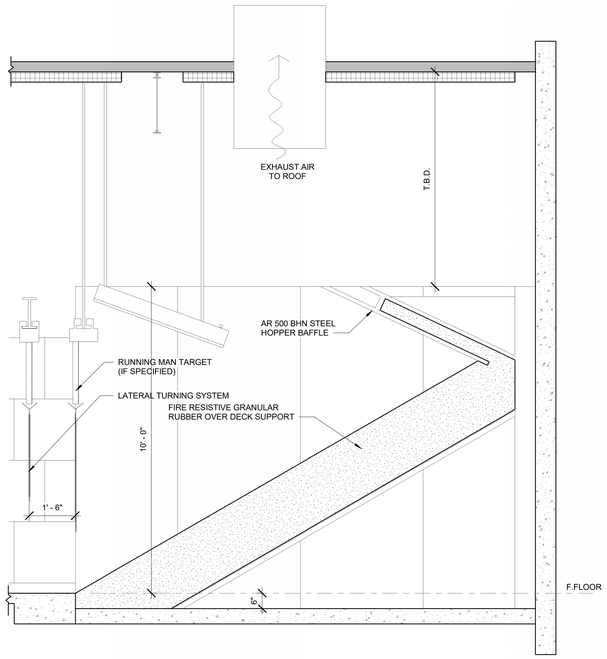
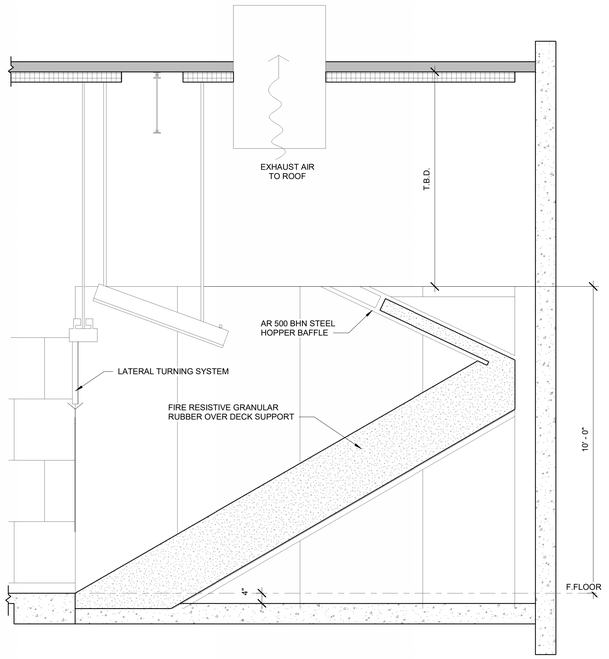
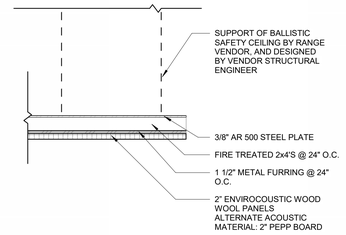


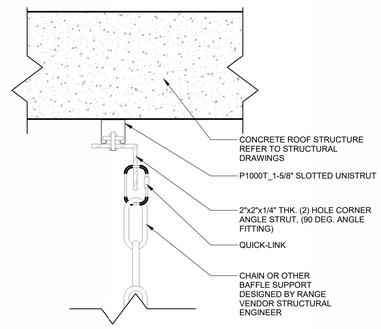
11 1/2" = 1'-0" **FIRE RESISTIVE GRANULAR RUBBER TRAP**



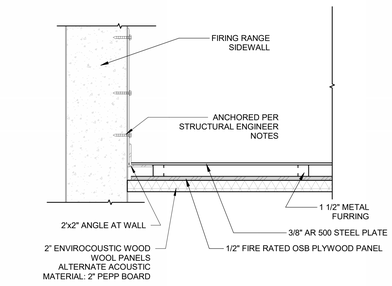
8 1/2" = 1'-0" **FIRE RESISTIVE GRANULAR RUBBER TRAP**



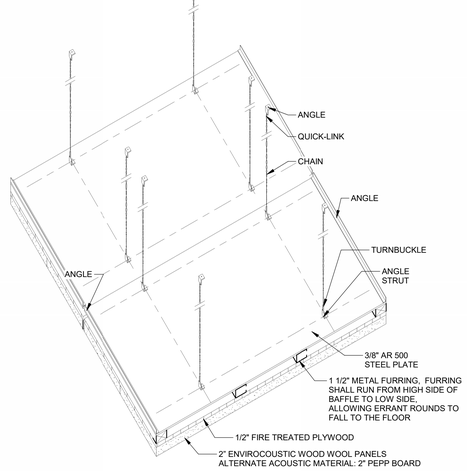
4 3/4" = 1'-0" **SAFETY CEILING DETAIL**



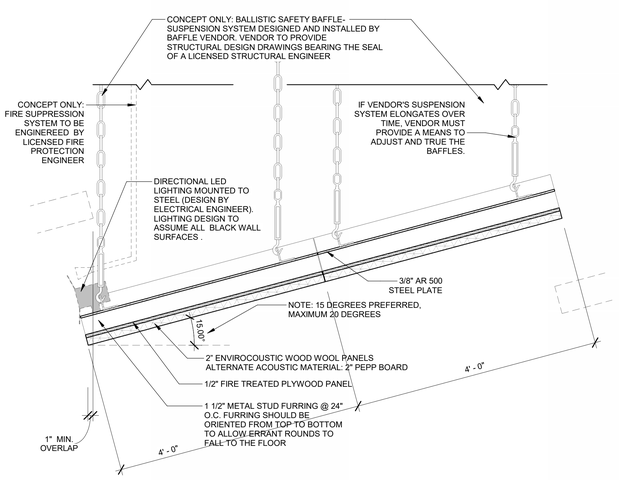
3 3" = 1'-0" **BAFFLE ANCHORAGE DETAIL**



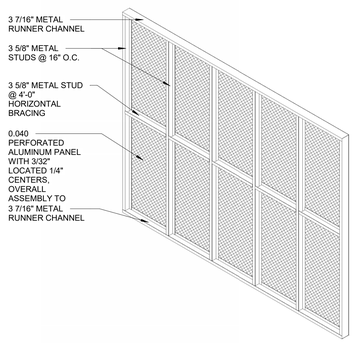
10 1 1/2" = 1'-0" **TYP. BAFFLE TO WALL DETAIL**



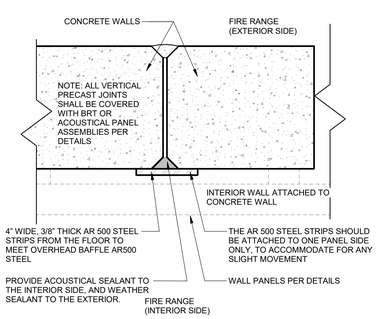
7 1" = 1'-0" **SAFETY BAFFLE ISOMETRIC**



2 1" = 1'-0" **SAFETY BAFFLE DETAIL.**

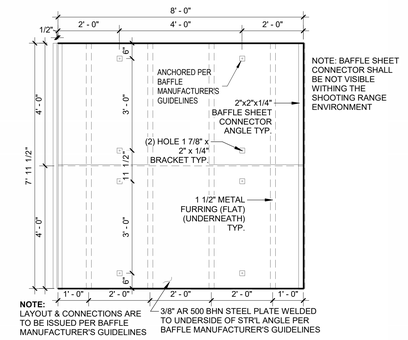


9 1/2" = 1'-0" **METAL SCREEN ISOMETRIC**

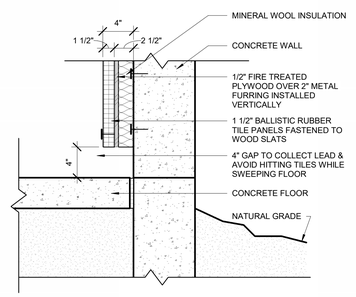


TILT-UP CONCRETE

6 3" = 1'-0" **SIDE WALL PANELS @ JOINTS**



5 1/2" = 1'-0" **BAFFLE PLAN - TOP VIEW**



1 1 1/2" = 1'-0" **BALLISTIC RUBBER DETAIL**

GENERAL NOTES

A REFER TO SHEETS G0.01E FOR GENERAL ABBREVIATIONS AND ARCHITECTURAL SYMBOLS.

B REFER TO SHEET SERIES "C" FOR CIVIL INFORMATION.

C PARAPET HEIGHTS ARE TO TOP OF TILT-WALL OR METAL STUD. PRESSURE TREATED WOOD NAILERS AND METAL COPING/ FLASHING OCCUR ABOVE THIS HEIGHT.

D REFER TO SHEETS A3.01E FOR INTERIOR CEILING CONDITIONS.

E R-VALUE FOR ALL ROOF INSULATION IS TO BE EQUAL TO FLORIDA BUILDING CODE REQUIREMENT FOR THE CLIMATE ZONE REGION (1A).

F REFER TO SHEET A2.51E FOR ROOF INFORMATION.

SHEET NOTES

0 2" 4" 8" 1'
3" = 1'-0" GRAPHIC SCALE

0 6" 1' 2'
1½" = 1'-0" GRAPHIC SCALE

0 6" 1' 2' 3' 4'
1" = 1'-0" GRAPHIC SCALE

0 1' 2' 4' 6' 8'
1/2" = 1'-0" GRAPHIC SCALE

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REGISTRATION

STATE OF FLORIDA
JENNIE LOHRUM
AR 96599
REGISTERED ARCHITECT

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2125 AVENUE S, RIVIERA BEACH, FL 33404

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1007657.00

SHEET TITLE
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SHEET NUMBER
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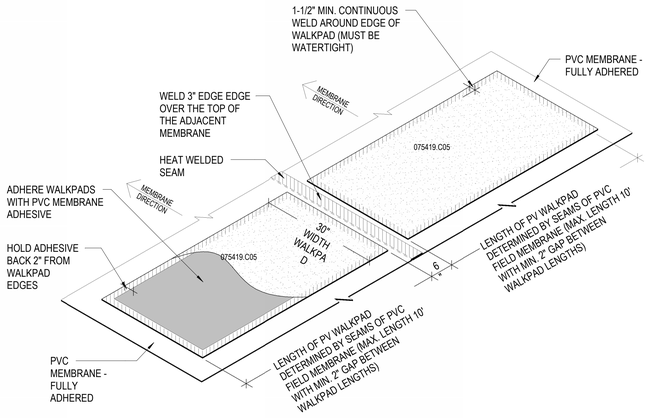
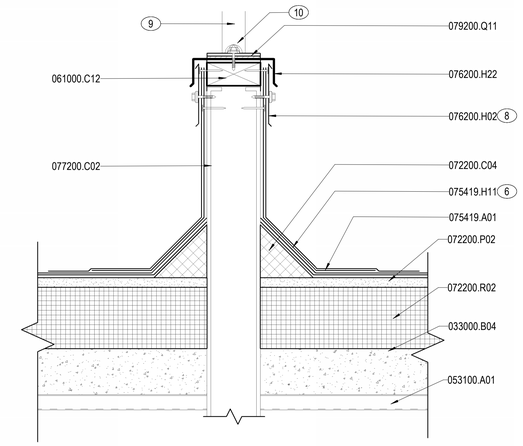
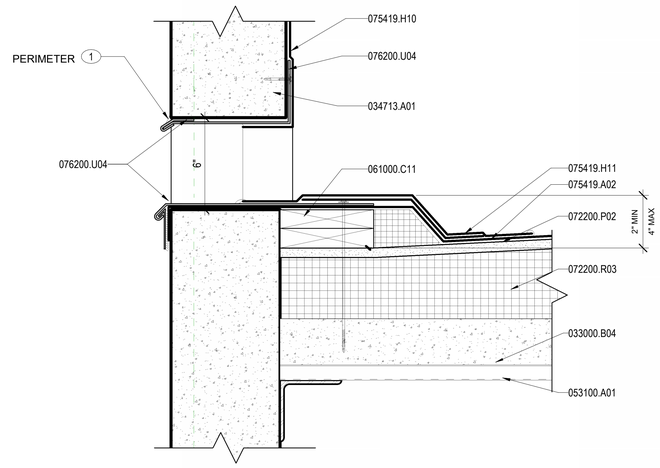


10 3/4" = 1'-0" **WALK PAD DETAIL**



6 3" = 1'-0" **EQUIPMENT CURB SUPPORT DETAIL**



3 3" = 1'-0" **SECTION DETAIL - OVERFLOW SCUPPER**

9 3" = 1'-0" **TILT UP PARAPET**

11 3" = 1'-0" **ROOF TIEBACK DETAIL**

5 3" = 1'-0" **EQUIPMENT CURB DETAIL - TYPICAL**

2 3" = 1'-0" **SCUPPER SECTION DETAIL**

8 1 1/2" = 1'-0" **TILT UP WALL BASE**

7 3" = 1'-0" **VENT STACK PENETRATION DETAIL**

4 3" = 1'-0" **SCUPPER PLAN DETAIL**

1 3" = 1'-0" **SCUPPER OVERFLOW PLAN DETAIL**

GENERAL NOTES

A REFER TO SHEETS G0.02E FOR GENERAL ABBREVIATIONS AND ARCHITECTURAL SYMBOLS.
B REFER TO SHEET A0.10E FOR THROUGH PENETRATION FIRESTOP SYSTEM SCHEDULE AND TYPICAL RATED PARTITION PENETRATION DETAILS
C TILT-WALL PANELS ARE BASED ON A 3/4" JOINT BETWEEN PANELS.
D PANEL ELEVATIONS ARE MEANT TO BE A DESIGN GUIDE. TILT-WALL CONTRACTOR TO VERIFY FINAL DIMENSIONS AND TILT-WALL PENETRATIONS PRIOR TO FABRICATION.
E COORDINATE DOOR, WINDOW AND OTHER OPENINGS WITH ARCHITECTURE AND ENGINEERING DRAWINGS.
F COORDINATE BOTTOM OF PANEL WITH STRUCTURAL GRADE BEAM LOCATIONS.
G COORDINATE ALL DEVICES & OPENINGS ON TILT-WALL PANELS.

SHEET NOTES

1 EXHAUST FAN/GRAVITY VENTILATOR CURB (REFER TO MECHANICAL DRAWINGS).
2 REMOVABLE LIPPED COUNTER FLASHING.
3 TAPERED INSULATION SYSTEM MAX. DEPTH 12.5".
4 PIPE STRAP AT ROUND PIPE ONLY.
5 SET IN CONTINUOUS SEALANT BED.
6 EXTEND MULTI-PLY BASE FLASHINGS UP CURB AND UNDER REMOVABLE COUNTER FLASHING
7 TOOL SEALANT TO FACILITATE WATER RUN-OFF.
8 REMOVABLE LIPPED COUNTER FLASHING AND CORROSION RESISTANT STEEL SCREWS W/NEOPRENE WASHERS
9 ROOF TOP EQUIPMENT, REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
10 SEALANT CAP BEAD OVER FASTENER HEAD, TYPICAL

MATERIAL LEGEND

033000.A06	CONCRETE FOOTING
033000.B01	CONCRETE SLAB
033000.B04	LIGHTWEIGHT AGGREGATE STRUCTURAL CONCRETE
034713.A01	TILT-UP CONCRETE WALL PANEL
051200.E01	STEEL ANGLE
051200.E02	STEEL PLATE
051200.E03	STEEL PLATE, BENT
053100.A01	STEEL DECK
055000.T03	EXPANSION BOLT
061000.C11	PRESSURE TREATED WOOD BLOCKING
061000.C12	CONTINUOUS PRESSURE TREATED WOOD BLOCKING
072100.R10	BLANKET INSULATION, UNFACED
072100.R11	BLANKET INSULATION, FACED
072113.R01	BOARD INSULATION
072200.C04	PREFORMED CANT
072200.P02	GLASS MAT GYPSUM PROTECTION BOARD
072200.R02	ROOF INSULATION BOARD
072200.R03	TAPERED ROOF INSULATION
072610.V01	UNDERSLAB VAPOR BARRIER
072726.A01	FLUID-APPLIED AIR BARRIER, VAPOR-RETARDING
072726.A02	FLUID-APPLIED AIR BARRIER, VAPOR-PERMEABLE
075419.A01	SINGLE-PLY POLYVINYL-CHLORIDE (PVC) ROOFING SYSTEM
075419.A02	SINGLE-PLY PVC ROOFING MEMBRANE, FULLY ADHERED
075419.C05	ROOF WALKWAY PAD
075419.F05	MECHANICAL FASTENER
075419.H10	POLYVINYL-CHLORIDE (PVC) WALL FLASHING
075419.H11	POLYVINYL-CHLORIDE (PVC) BASE FLASHING
075419.Q02	MASTIC SEALANT
076200.E03	CLEAT
076200.H02	COUNTERFLASHING
076200.H22	EQUIPMENT SUPPORT FLASHING
076200.M04	PARAPET COPING
076200.U02	DOWNSPOUT
076200.U03	CONDUCTOR HEAD
076200.U04	SCUPPER
076200.Z01	TERMINATION BAR
077200.C02	EQUIPMENT SUPPORT CURB
077200.C04	TIEBACK ANCHOR FOR FALL PROTECTION
079200.Q01	JOINT SEALANT
079200.Q11	SEALANT BED
092216.C02	METAL STUD RUNNER TRACK
092216.D04	METAL STUD 4"
092900.A01	GYPSUM BOARD, REGULAR 5/8"
096513.C21	RUBBER WALL BASE
099113.A01	PAINT FINISH
221316.C31	VENT PIPING
312000.B01	FINISH GRADE

0 2" 4" 8" 1'
3" = 1'-0" GRAPHIC SCALE

0 6" 1' 2'
1½" = 1'-0" GRAPHIC SCALE

0 4" 1' 2' 3' 4' 5'
3/4" = 1'-0" GRAPHIC SCALE

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ROOF DETAILS

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A7.50E

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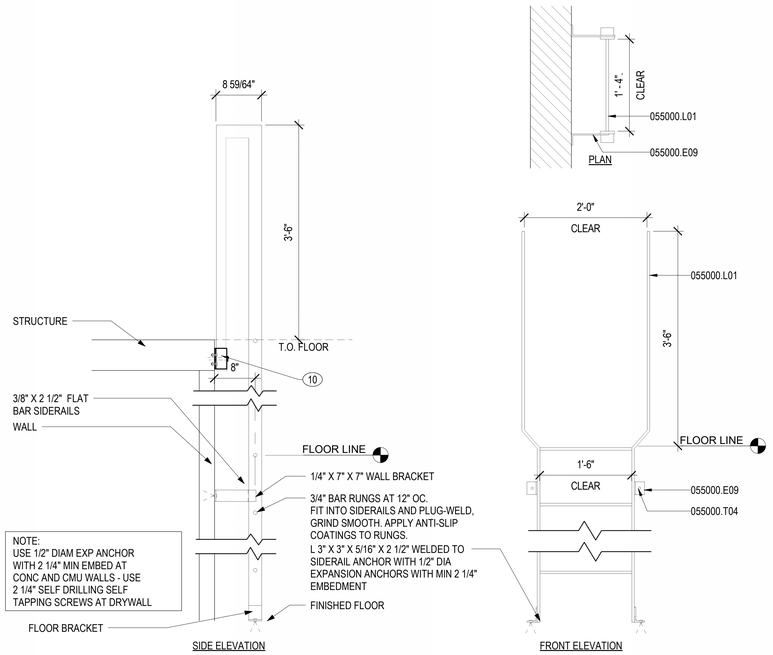
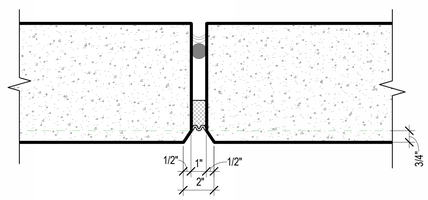
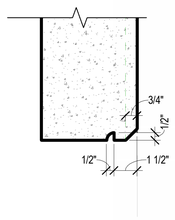


FINISH AFTER FABRICATION: SHOP PRIMER PAINT WITH HIGH PERFORMANCE COATING

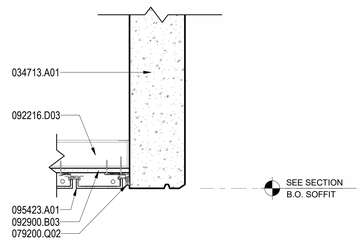
11 1" = 1'-0" WALL MOUNTED LADDER



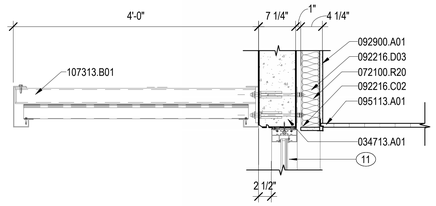
10 3" = 1'-0" TYPICAL EXPANSION JOINT DETAIL



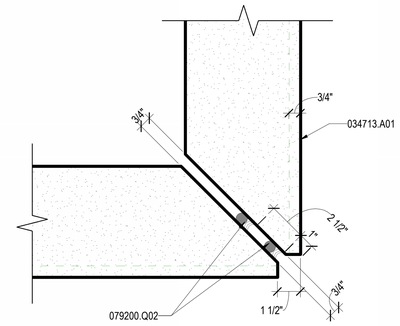
8 3" = 1'-0" TYPICAL DRIP DETAIL



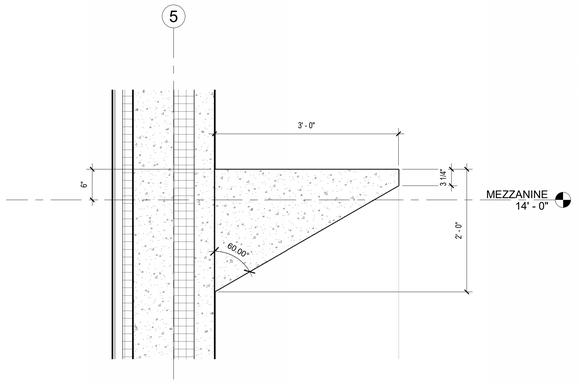
5 1 1/2" = 1'-0" SOFFIT AT TILT-UP



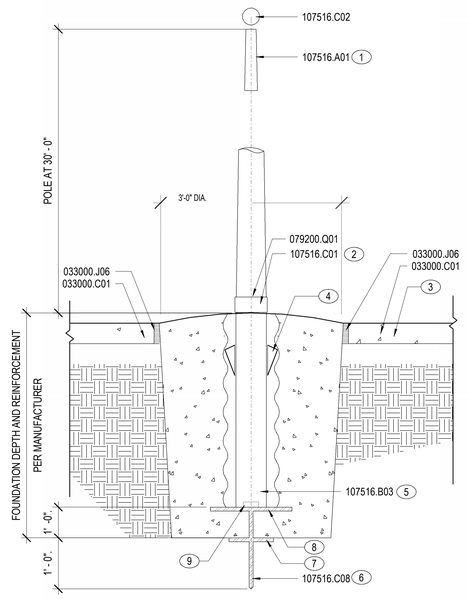
6 1" = 1'-0" EXTERIOR CANOPY DETAIL



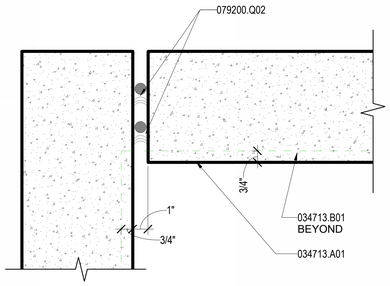
3 3" = 1'-0" TYPICAL TILT-UP PLAN DETAIL @ 45 DEGREE CORNER



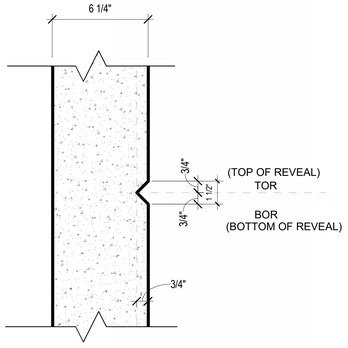
2 1" = 1'-0" CONCRETE EXTERIOR DETAIL



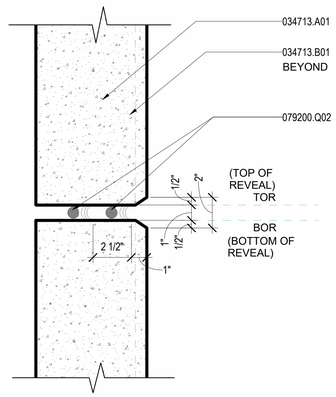
1 NTS FLAG POLE DETAIL



9 3" = 1'-0" TYPICAL JOINT DETAIL



7 3" = 1'-0" TYPICAL REVEAL DETAIL



4 3" = 1'-0" TYPICAL JOINT DETAIL

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E COORDINATE DOOR, WINDOW AND OTHER OPENINGS WITH ARCHITECTURE AND ENGINEERING DRAWINGS.

F COORDINATE BOTTOM OF PANEL WITH STRUCTURAL GRADE BEAM LOCATIONS.

G COORDINATE ALL DEVICES & OPENINGS ON TILT-WALL PANELS.

SHEET NOTES

1 CONE TAPERED

2 CAST ALUMINUM WATERPROOF COLLAR. FINISH TO MATCH POLE.

3 REFER TO SITE PLAN FOR ADDITIONAL INFORMATION FOR COORDINATION ADJACENT MATERIAL.

4 HARDWOOD WEDGES BY CONTRACTOR.

5 10 INCH DIAMETER, GALVANIZED. FILL WITH DRY SAND.

6 2/4 INCH STEEL GROUND SPIKE. ALL WELDED CONSTRUCTION.

7 STEEL SUPPORT PLATE.

8 STEEL BOTTOM PLATE.

9 INTEGRAL STEEL CENTERING WEDGES.

10 PIPE RAIL SLEEVE WITH SOLID BOTTOM AND SET SCREW. COORDINATE WITH STRUCTURAL.

11 REFER TO DOOR SCHEDULE FOR SPECIFIC DOOR TYPE.

MATERIAL LEGEND

033000.C01	CONCRETE WALK
033000.J06	EXPANSION JOINT
034713.A01	TILT-UP CONCRETE WALL PANEL
034713.B01	CONCRETE INSERTS
055000.E09	STEEL BENT PLATE
055000.L01	STEEL LADDER
055000.T04	EXPANSION ANCHOR
072100.R20	SOUND ATTENUATION BATTS
079200.Q01	JOINT SEALANT
079200.Q02	BACKSTOP AND SEALANT
092216.C02	METAL STUD RUNNER TRACK
092216.D03	METAL STUD 3 5/8"
092900.A01	GYPSUM BOARD, REGULAR 5/8"
092900.B03	GLASS MAT FACED EXTERIOR GYPSUM SHEATHING 5/8"
095113.A01	ACOUSTICAL CEILING UNITS
095423.A01	METAL FACED COMPOSITION ACOUSTICAL CEILING SYSTEM
107313.B01	DOOR CANOPY SYSTEM
107516.A01	FLAGPOLE
107516.B03	FOUNDATION TUBE
107516.C01	FLASHING COLLAR
107516.C02	FINIAL BALL
107516.C08	STEEL GROUND SPIKE

0 4" 1' 2' 3' 4' 5'
3/4" = 1'-0" GRAPHIC SCALE

0 6" 1' 2'
1½" = 1'-0" GRAPHIC SCALE

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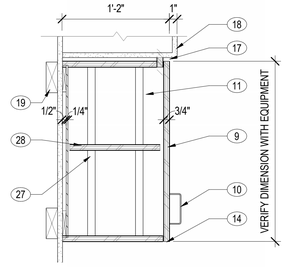
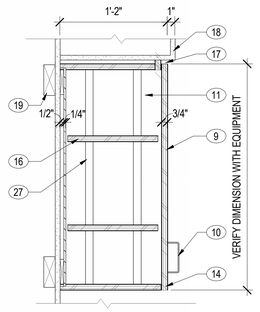
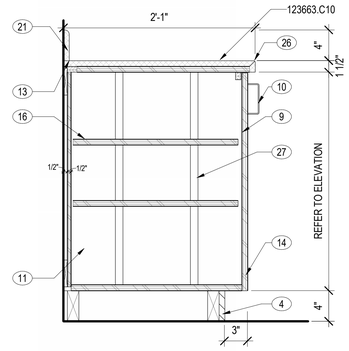


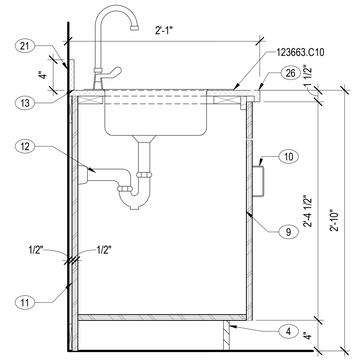
10 1 1/2" = 1'-0" **UPPER CABINET 24"**



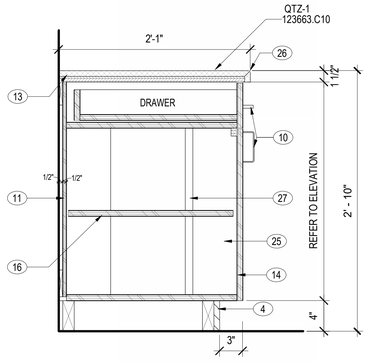
8 1 1/2" = 1'-0" **UPPER CABINET SECTION1**



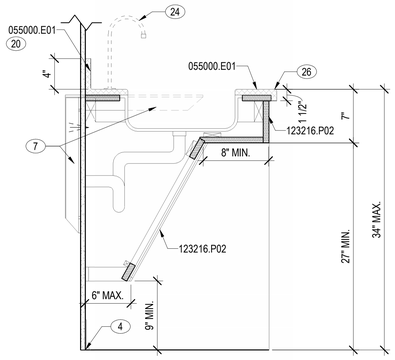
6 1 1/2" = 1'-0" **BASE CABINET SECTION1**



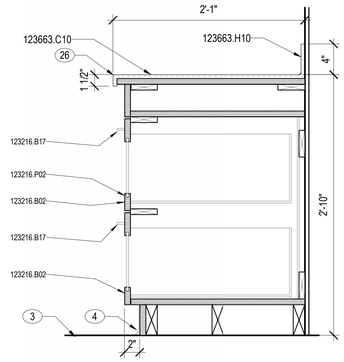
4 1 1/2" = 1'-0" **SINK CABINET SECTION1**



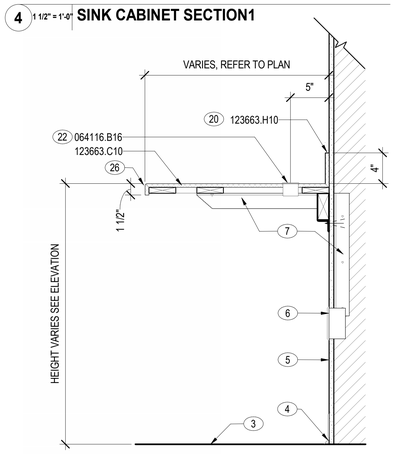
9 1 1/2" = 1'-0" **BASE CABINET W/ DRAWER TYP.**



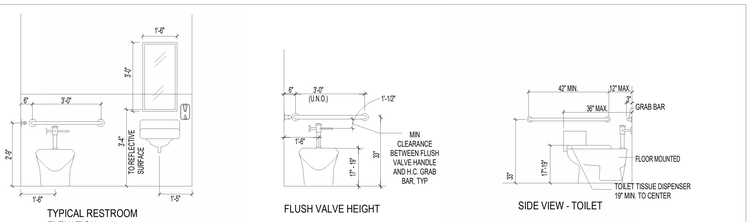
7 1 1/2" = 1'-0" **ACCESSIBLE SINK1**



5 1 1/2" = 1'-0" **STORAGE DRAWERS**

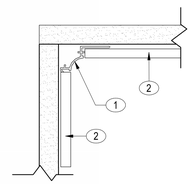


3 1 1/2" = 1'-0" **COUNTER WITH EXTENDED BACKSPLASH**

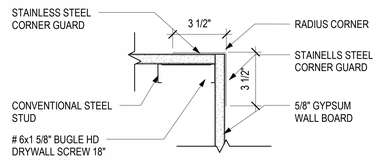


TYPICAL RESTROOM ELEVATION
FLUSH VALVE HEIGHT
SIDE VIEW - TOILET
WALL HUNG SINKS / MIRROR
SANITARY NAPKIN DISPOSAL
HAND TOWEL DISPENSER
TOILET SEAT COVER DISPENSER
TOWEL PIN
SOAP DISPENSER
MIRROR
MIRROR
SANITARY NAPKIN DISPENSER
ELECTRIC WATER COOLER

11 3/8" = 1'-0" **TYPICAL MOUNTING HEIGHTS**



2 6" = 1'-0" **PORCELAIN TILE INSIDE CORNER1**



1 3" = 1'-0" **SURFACE CORNERGUARD_SM-20A2**

GENERAL NOTES

A REFER TO SHEET I2.21 FOR FINISH SCHEDULE AND COLOR DESIGNATIONS LOCATED ON FINISH IDENTIFICATION. REFER TO SHEET B-AE810 FOR CEILING AND MISCELLANEOUS FINISH IDENTIFICATION SCHEDULE.

B REFER TO SHEET AE401 FOR MILLWORK ELEVATIONS.

C REFER TO SHEET AE801 FOR EQUIPMENT PLANS.

D PROVIDE BLOCKING EQUIPMENT AS NOTED AND AS NECESSARY BEHIND WALL MOUNTED CASEWORK AND EQUIPMENT. SEE SHEET B-AE801 FOR CASEWORK MOUNTING DETAIL AND EQUIPMENT MOUNTING DETAILS.

E PAINT ALL SUPPORT BRACKETS TO MATCH ADJACENT SURFACE.

SHEET NOTES

1 TR-2
2 PWT
3 FINISHED FLOOR
4 PL-1 BASE TO MATCH CABINET FINISH
5 FINISHED FACE OF PARTITION
6 POWER/PHONE/DATA RECEPTACLE. COORDINATE LOCATION WITH ELECTRICAL AND COMMUNICATION DRAWINGS.
7 CONCEALED METAL SUPPORT BRACKET; 48" ON CENTER MAX. ANCHOR BRACKET TO STUD OR BLOCKING AS SPECIFIED BY COUNTERTOP SUPPLIER. VERTICAL LEG TO BE CONCEALED. BRACKET SIZE MAY VARY BASED ON COUNTERTOP DEPTH; FABRICATOR TO VERIFY.
9 INTERIOR OF CABINET DOOR TO MATCH EXTERIOR
10 CABINET PULL
11 MELAMINE ON ALL INTERIOR CABINET SURFACES
12 COVER DRAIN AND HOT WATER SUPPLY LINES WITH INSULATION PER ADA REQUIREMENTS
13 CAULK AS REQ'D
14 ALL EXPOSED EXTERIOR CABINET EDGES TO BE CLAD WITH PLAM
16 ADJUSTABLE SHELVES
17 1/2" REVEAL
18 GYP. BD. SOFFIT
19 CONTINUOUS WOOD BLOCKING
20 INTEGRAL BACKSPLASH, PROVIDE BACKSPLASH WHEN SHOWN ON ELEVATION
21 QUARTZ BACKSPLASH
22 PROVIDE AS REQUIRED.
24 PLUMBING FIXTURE AS SCHEDULED. REFER TO EQUIPMENT SCHEDULE AND PLUMBING DRAWINGS FOR COORDINATION.
25 INTERIOR OF CABINET DOOR TO MATCH EXTERIOR PL-1
26 1/4" RADIUS EASED EDGE
27 RECESSED SHELF STANDARDS AND BRACKETS
28 ADJUSTABLE SHELVES

MATERIALS LIST

055000.E01	STEEL ANGLE
064116.B16	GROMMET
123216.B02	CABINET DRAWER
123216.B17	DRAWER PULL
123216.P02	WOOD FINISH
123663.C10	SOLID SURFACING COUNTERTOP
123663.H10	SOLID SURFACING BACKSPLASH

0 6" 1' 2'
1½" = 1'-0" GRAPHIC SCALE
0 2" 4" 8" 1'
3" = 1'-0" GRAPHIC SCALE
0 1" 2" 3" 6"
6" = 1'-0" GRAPHIC SCALE
0 1' 2' 4' 6' 8' 10'
3/8" = 1'-0" GRAPHIC SCALE

CLIENT

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CONSTRUCTION MANAGER/BUILDER

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1641 Worthington Rd
West Palm Beach
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PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

STATE OF FLORIDA
SUNNIE LORDUM
AR 96289
REGISTERED ARCHITECT

DRAWING HISTORY

No.	DATE	DESCRIPTION

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS / PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPD EVIDENCE & FIRE RANGE BUILDING

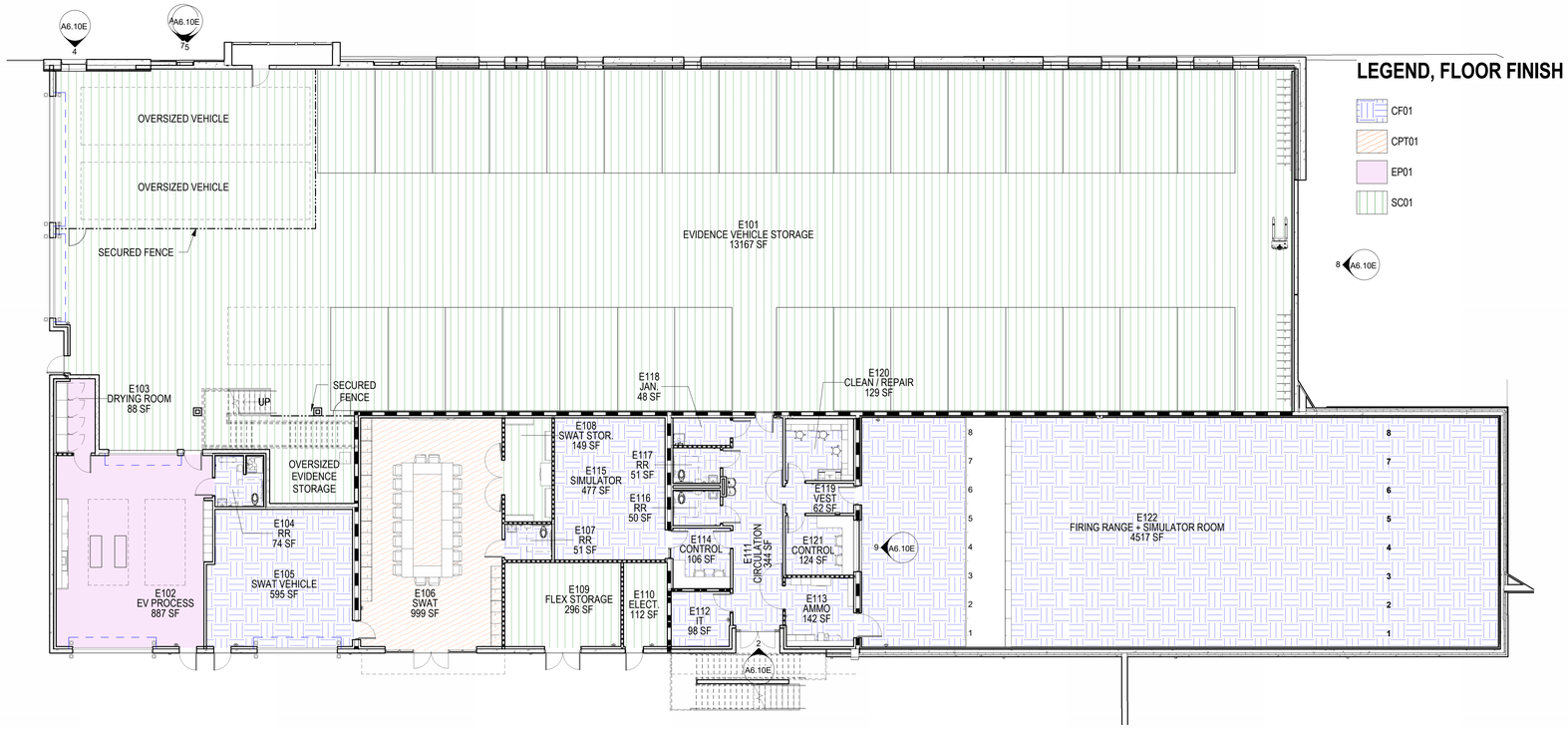
PROJECT LOCATION
2125 AVENUE S,
RIVIERA BEACH, FL
33404

PROJECT NUMBER
1007657.00

SHEET TITLE
MILLWORK DETAILS

SHEET NUMBER
A8.65E

FILE NAME: Autodesk Docs://_1007657.00_-_CORE_-City of Riviera Beach D/1007657_-_RBPD_Evidence_&_Fire_Range_Building.rvt
DATE STAMP: 10/23/2025 5:42:31 PM



1 3/32" = 1'-0" **OVERALL FIRST FLOOR PLAN**

FINISH SCHEDULE

NUMBER	NAME	AREA	FLOOR	BASE	WALL, EAST	WALL, SOUTH	WALL, WEST	WALL, NORTH	CEILING FINISH	FINISH REMARKS
E101	EVIDENCE VEHICLE STORAGE	13167 SF	SC01	RB01	CONC	CONC	CONC	CONC	EXP	
E102	EV PROCESS	887 SF	EP01	RB01	PT01	PT01	PT01	PT01	EXP	FLOOR FINISH TO BE A CHEMICAL RESISTANT WHITE EPOXY WITH COVED BASE.
E103	DRYING ROOM	88 SF	EP01	EP01	PT01	PT01	PT01	PT01	EXP	FLOOR FINISH TO BE A CHEMICAL RESISTANT WHITE EPOXY WITH COVED BASE.
E104	RR	74 SF	CF01	EP01	PT01e	PT01e	PT01e	PT01e	PT01	
E105	SWAT VEHICLE	595 SF	CF01	RB01	PT01	PT01	PT01	PT01	EXP	
E106	SWAT	999 SF	CPT01	RB01	PT01	PT01	PT02	PT02	EXP	
E107	RR	51 SF	CF01	RB01	PT01e	PT01e	PT01e	PT01e	PT01	
E108	SWAT STOR.	149 SF	SC01	RB01	PT01	PT01	PT01	PT01	EXP	
E109	FLEX STORAGE	296 SF	SC01	RB01	PT01	PT01	PT01	PT01	EXP	
E110	ELECT.	112 SF	SC01	RB01	PT01	PT01	PT01	PT01	EXP	
E111	CIRCULATION	344 SF	CF01	RB01	PT01	PT01	PT02	PT01	ACP01	
E112	IT	98 SF	CF01	RB01	PT01	PT01	PT01	PT01	EXP	
E113	AMMO	142 SF	CF01	RB01	PT01	PT01	PT01	PT01	EXP	
E114	CONTROL	106 SF	CF01	RB01	PT01	PT01	PT01	PT01	ACP01	
E115	SIMULATOR	477 SF	CF01	RB01	PT01	PT01	PT01	PT01	EXP	
E116	RR	50 SF	CF01	RB01	PT01e	PT01e	PT01e	PT01e	PT01	
E117	RR	51 SF	CF01	RB01	PT01e	PT01e	PT01e	PT01e	PT01	
E118	JAN.	48 SF	CF01	RB01	PT01	PT01	PT01	PT01	EXP	
E119	VEST	62 SF	CF01	RB01	PT01	PT01	PT01	PT01	ACP01	
E120	CLEAN / REPAIR	129 SF	CF01	RB01	PT01e	PT01e	PT01e	PT01e	EXP	
E121	CONTROL	124 SF	CF01	RB01	PT01	PT01	PT01	PT01	ACP01	
E122	FIRING RANGE + SIMULATOR ROOM	4517 SF	CF01	RB01	CONC	CONC	CONC	CONC	BCP	
E201	MEZZANINE	2190 SF	SC01	RB01	PT01	PT01	--	--	EXP	

BASE FINISH IDENTIFICATION

WALL BASE FINISH	WALL BASE MATERIAL	WALL BASE MANUFACTURER	WALL BASE MANUFACTURER NO.	WALL BASE PATTERN	WALL BASE COLOR	WALL BASE SIZE	WALL BASE REMARKS	PROJECT REVISION
<varies>	RESILIENT WALL BASE	ROPPE	PINNACLE RUBBER BASE, STANDARD TOE	--	193 BLACK BROWN	6" H	PREFORMED INSIDE/OUTSIDE CORNERS	--

FLOOR FINISH IDENTIFICATION

what	FLOOR MATERIAL	FLOOR MANUFACTURER	FLOOR PRODUCT	FLOOR COLOR	FLOOR TEXTURE	SIZE	FLOOR REMARKS	PROJECT REVISION
CF01	CONCRETE (POLISHED)	SCOFIELD	FORMULA ONE GUARD-W	--	--	--	--	--
CPT01	CARPET TILE	MILLIKEN	OBEX ENTRANCE FLOOING	CUT/FIZZ, FZC174-133 TAUPE		50cm X 50cm	10% NOT TO EXCEED 10 YARDS OF ATTIC STOCK TO BE PROVIDED.	--
EP01	CONCRETE (SEALED)	TBD	CHEMICAL RESISTANT EPOXY	WHITE	--	--	--	--
SC01	CONCRETE (SEALED)	AMERIPOLISH	SR2 CONCRETE SEALER SOLVENT BASE	CLEAR	--	--	--	--

WALL FINISH IDENTIFICATION

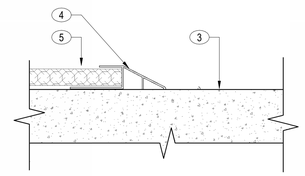
WALL FINISH CODE	WALL MATERIAL	WALL MANUFACTURER	WALL PRODUCT	WALL COLOR	WALL TEXTURE/FINISH	WALL SIZE	WALL FINISH REMARKS	PROJECT REVISION
CONC	EXPOSED TILT-UP	--	--	--	--	--		--
PT01	PAINT	SHERWIN WILLIAMS	--	SW7008 ALABASTER	LIGHT TEXTURE COAT ON ALL INTERIOR GYPSUM WALLBOARD	--	LEVEL 4 FINISH TYPICAL, LEVEL 5 FINISH AT ACCENT WALLS, CORRIDORS, 2 GALLONS OF EACH FINISH COAT OF EACH PRODUCT TO BE PROVIDED AS ATTIC STOCK	--
PT01e	PAINT, EPOXY	SHERWIN WILLIAMS	--	SW7008 ALABASTER	--	--	LEVEL 4 FINISH TYPICAL, LEVEL 5 FINISH AT ACCENT WALLS, CORRIDORS, 2 GALLONS OF EACH FINISH COAT OF EACH PRODUCT TO BE PROVIDED AS ATTIC STOCK	--
PT02	PAINT	SHERWIN WILLIAMS	--	SW9178 IN THE NAVY	--	--	LEVEL 4 FINISH TYPICAL, LEVEL 5 FINISH AT ACCENT WALLS, CORRIDORS, 2 GALLONS OF EACH FINISH COAT OF EACH PRODUCT TO BE PROVIDED AS ATTIC STOCK	--

CEILING FINISH IDENTIFICATION

FINISH CODE	CEILING TYPE	CEILING MANUFACTURER	CEILING PRODUCT	CEILING COLOR	CEILING TEXTURE / FINISH	CEILING SIZE	CEILING REMARKS	PROJECT REVISION
								<varies>
ACP01	ACOUSTIC CEILING	ROCKFON	ALASKA SQUARE LAY-IN	WHITE	NON-DIRECTIONAL	2'X2', 3/4"	400 TEMPRA SQ 9/16 SUSPENSION SYSTEM, NRC.90	--
BCP	BALLISTIC CEILING PANELS	ACTION TARGET	--	--	--	--	--	--
EXP	EXPOSED TO STRUCTURE	--	--		--	--	--	--
PT01	PAINTED GYPSUM BOARD	SHERWIN WILLIAMS	--	SW7008 ALABASTER	--	--	LEVEL 4 FINISH TYPICAL, 2 GALLONS OF EACH FINISH COAT OF EACH PRODUCT TO BE PROVIDED AS ATTIC STOCK	--

MISCELLANEOUS IDENTIFICATION

FINISH CODE KEY	FINISH MATERIAL	FINISH MANUFACTURER	FINISH PRODUCT	FINISH COLOR	FINISH TEXTURE	FINISH SIZE	FINISH LOCATION	FINISH REMARKS	PROJECT REVISION
CG01	CORNER GUARD	IN-PRO CORPORATION	150 HIGH IMPACT CORNER GUARD	GALA 380	--	3"X3"X72"	--	INSTALL DIRECTLY ABOVE WALL BASE.	--
PL03	HIGH PRESSURE LAMINATE	WILSONART	--	7946 ASIA	18 LINEARITY	--	RM E106 CASEWORK	INTERIOR WOODWORK.	--
PL05	STAINLESS STEEL	--	--	--	--	--	--	--	--
SS02	SOLID SURFACE MATERIAL COUNTERTOP	CORIAN	SOLID SURFACE	LINEN	--	1/2" D	E106 COUNTERTOP	SQUARE EASTED EDGE	--
SS03	STAINLESS STEEL COUNTERTOPSL	--	STAINLESS STEEL	--	--	--	RM E113 & RM 120 COUNTERTOPS	SQUARE EASTED EDGE	--
SS04	STAINLESS STEEL WALL PANEL		STAINLESS STEEL	--	--	--	RM E113 & RM 120 WALL PANEL ALONG WORK AREAS	SQUARE EASTED EDGE	--
TS01	METAL EDGE TRIM	SCHLUTER	VINPRO-U	BRUSHED CHROME ANNODIZED	--	--	USE AT CPT TRANSITION TO CONCRETE	--	--



3 FLOOR TRANSITION CARPET TO CONCRETE
6" = 1'-0"

PLAN NORTH

0 5' 10' 20' 30' 40'
3/32" = 1'-0" GRAPHIC SCALE

GENERAL NOTES

A FINISH SCHEDULE FOLLOW SHEET NORTH.
B REFER TO REFLECTED CEILING PLAN SHEETS A3.01E FOR CEILING HEIGHTS AND DESIGN COORDINATION.
C INTERIOR DOOR FRAMES AND INTERIOR WINDOW FRAMES PAINTED TO MATCH ADJACENT WALL, UNLESS OTHERWISE NOTED.
D FLOOR TRANSITIONS BETWEEN ROOMS TO BE AT CENTER LINE OF DOOR, UNLESS OTHERWISE NOTED.
E CHANGES IN LEVEL OF 1/4" HIGH MAX ARE TO BE PERMITTED VERTICAL. CHANGES IN LEVEL BETWEEN 1/4" HIGH MINIMUM AND 1/2" HIGH MAXIMUM ARE TO BE BEVELED WITH A SLOPE NO STEEPER THAN 1:2.
F PAINT WALL BEHIND CORNER GUARDS AS SCHEDULED FINISH SCHEDULE.
G REFER TO SHEET A4.01E AND A4.02E FOR CASEWORK MATERIAL LEGEND, MISCELLANEOUS LEGEND.
H FINISHES INDICATED ARE THE APPROVED BASIS OF DESIGN TO CONVEY COLOR, PATTERN, TEXTURE AND SALIENT CHARACTERISTICS ONLY. THE LIST OF MANUFACTURER INFORMATION IS NOT INTENDED TO LIMIT THE SELECTION OF PRODUCTS PROVIDED BY OTHER MANUFACTURER. PRODUCT SUBSTITUTIONS MEETING THESE CRITERIA WILL BE CONSIDERED AND ARE TO BE REVIEWED BY THE ARCHITECT OF RECORD AND APPROVED BY THE USER GROUP.

SHEET NOTES

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
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ARCHITECT OF RECORD

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CONSTRUCTION MANAGER/BUILDER

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PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

STATE OF FLORIDA
CORINNE LOVRUM
AR 0018098
REGISTERED ARCHITECT

DRAWING HISTORY

No.	DATE	DESCRIPTION

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS / PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPD EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
FINISH PLAN - LEVEL 1

SHEET NUMBER
AF2.10E

FILE NAME: Autodesk Docs://_1007657.00 - CORE - City of Riviera Beach D/1007657 - RBPD_Evidence_&_Fire_Range_Building.rvt
DATE STAMP: 10/23/2025 5:42:36 PM

RIVIERA BEACH PD

CUSTOMER APPROVAL:

Signature:

Printed Name:

Date:

NOTWITHSTANDING THE CONTRACT DOCUMENTS, APPROVAL OF THESE DRAWINGS SHALL ACT AS AN AMENDMENT TO THE PARTIES' AGREEMENT AND SUPERSEDE ALL PREVIOUS DRAWINGS.

DESIGN CRITERIA:

1. FIXED POSITION FIRING RANGE:
   - TRAJECTORIES START AT 1' ABOVE FINISHED FLOOR AT FIRING LINE. PAST 25 YARDS, SECONDARY TRAJECTORIES DESIGNED TO CONTAIN 6° PROJECTILE DEFLECTION.
   - BAFFLE LAYOUT PROVIDES STEEL COVERAGE OF TRAJECTORY + 2" ON BAFFLE/TRAP.
   - COVERAGE EXTENDS 36" BEHIND FIRING LINE, PROVIDING A 90° CONTAINMENT AREA AT FIRING LINE.
   - BAFFLE ANGLE DESIGNED TO NOT EXCEED 30°.
   - TARGETRY HEIGHT DESIGNED TO PLACE THE TOP OF HEAD AT 5'-10" AFF.
2. TACTICAL FIRING RANGE:
   - TRAJECTORIES START AT 1' ABOVE FINISHED FLOOR AT FURTHEST FIRING POSITION TO 10 YARDS. TRAJECTORIES AT 3 YARD TO 10 YARD LOCATIONS START AT 4' ABOVE FINISHED FLOOR. SECONDARY TRAJECTORIES DESIGNED TO CONTAIN 6° PROJECTILE DEFLECTION.
   - BAFFLE LAYOUT PROVIDES STEEL COVERAGE OF 1" HORIZONTAL OVERLAP ON BAFFLES AND 2" TRAJECTORY OVERLAP ON TRAP.
   - COVERAGE EXTENDS 36" BEHIND FIRING LINE
   - LAYOUT PROVIDES A 90° CONTAINMENT AREA FROM THE 3 METER LINE TO THE FURTHEST FIRING POSITION.
   - BAFFLE ANGLE DESIGNED TO NOT EXCEED 18°. TARGETRY HEIGHT DESIGNED TO PLACE THE TOP OF HEAD AT 5'-10" AFF.
3. M.A.T.C.H. (MODULAR ARMORED TACTICAL COMBAT HOUSE):
   - DESIGNED TO CONTAIN ROUNDS FIRED BETWEEN 0"AFF AND 84" AFF. WALLS DESIGNED TO BE A NOMINAL 8' TALL, WITH 84" AFF AND ABOVE DESIGNATED NO SHOOT ZONE.
   - WALL SYSTEM AND GRID REFERENCES DESIGNED ON A 4'-0" x 4'-0" GRID.
   - PAINT SCHEME:
     - RED PAINT - NO SHOOT ZONE
     - WHITE PAINT - SHOOT ZONE
       - WHEN CONFIGURING TRAINING SCENARIO'S BE AWARE OF THE TRAJECTORY OF THE ROUND AFTER IT PENETRATES THE INTENDED TARGET.
     - TAN PAINT - CAUTION ZONE
       - ROUNDS HAVE POTENTIAL TO PENETRATE THIS ZONE.
4. BUILDING / EQUIPMENT ACCESS:
   - SCREW CONVEYOR SYSTEM / DUST COLLECTION SYSTEM:
     - SUGGESTED ACCESS AREA AROUND EQUIPMENT FOR THE DISPOSE OF COLLECTED MATERIALS IS:
       - 4'-6" - FOR A FORKLIFT
       - 3'-0" - FOR A PALLET JACK
   - SPACE NEEDED FOR MATERIALS INSTALLATION AND INSTALLATION EQUIPMENT:
     - SUGGESTED ACCESS AREA TO RANGE AREA: (FOR ENTIRE DURATION OF INSTALLATION)
       - MIN (1) 4'-6" WIDE BY 7'-6" TALL ACCESS PER RANGE/BAY
5. CONCRETE SPECS:
   - ALL CONCRETE MUST HAVE A FLATNESS TOLERANCE OF 1/8" OVER 20' (3MM OVER 6M) FOR ANY CONCRETE WORK WHERE ACTION TARGET EQUIPMENT WILL BE INSTALLED AND/OR ATTACHED (WALLS AND FLOOR). CONCRETE SURFACES MUST NOT BE CROWNED OR SLOPED UNLESS SPECIFICALLY NOTED ON ACTION TARGET DRAWINGS.
   - RANGE FLOOR CONCRETE SHOULD BE 3,000 PSI MINIMUM, IDEALLY 5,000 PSI. IF CMU BLOCKS ARE USED FOR RANGE SIDE WALLS, THEY SHOULD BE HIGH DENSITY BLOCKS OF AT LEAST 4,000 PSI, CAVITIES MUST BE FILLED WITH 4,000 PSI CONCRETE. MORTAR LINES SHOULD BE "FLUSH" WITH THE BLOCK INSIDE RANGE AND NOT "INDENTED".

DISCLAIMERS:

NOTICE TO BUILDER & ALL SUBCONTRACTORS

THESE DOCUMENTS PROVIDE INFORMATION ONLY ABOUT ACTION TARGET'S PRODUCTS AND NOTHING MORE. IT IS THE INTENT OF ACTION TARGET THAT THESE DOCUMENTS BE ACCURATE, PROVIDING LICENSED PROFESSIONALS CLEAR INFORMATION. EVERY ATTEMPT HAS BEEN MADE TO PREVENT ERROR. THE CUSTOMER, OWNER, BUILDER, AND ALL SUBCONTRACTORS ARE REQUIRED TO REVIEW ALL THE INFORMATION CONTAINED IN THESE DOCUMENTS PRIOR TO THE COMMENCEMENT OF ANY WORK. ACTION TARGET IS NOT RESPONSIBLE FOR ANY ERRORS, OMISSIONS, OR MISINTERPRETATIONS UNDETECTED AND NOT REPORTED TO ACTION TARGET PRIOR TO CONSTRUCTION. ALL CONSTRUCTION MUST BE IN ACCORDANCE WITH THE INFORMATION FOUND IN THESE DOCUMENTS. ANY QUESTIONS REGARDING THE INFORMATION FOUND IN THESE DOCUMENTS SHOULD BE DIRECTED TO OUR OFFICE AT (801) 377-8033 IMMEDIATELY. NO BACKCHARGES WILL BE CONSIDERED FOR REIMBURSEMENT BY ACTION TARGET WITHOUT ADVANCED NOTIFICATION AND APPROVAL BY ACTION TARGET. PAYMENTS WILL BE MADE IN ACCORDANCE WITH THE TERMS OF THE AGREEMENT

- ELECTRICAL:
  WHERE ELECTRICAL CONTRACTOR IS REQUIRED ALL ACTION TARGET INC. ELECTRICAL DRAWINGS WILL BE USED ONLY AS REFERENCE MATERIAL FOR THE ELECTRICAL CONTRACTOR TO UTILIZE IN THEIR DESIGN OF THE COMPLETE BUILDING / RANGE SYSTEM (UNLESS NOTED OTHERWISE.) FINAL LOCATION OF ELECTRICAL EQUIPMENT CONTAINED IN THE ACTION TARGET INC. ELECTRICAL LAYOUTS TO BE VERIFIED WITH ACTION TARGET INC., ELECTRICAL CONTRACTOR, AND CUSTOMER BEFORE INSTALLATION.
- ARCHITECTURAL:
  ALL BUILDING MEASUREMENTS ARE TO BE CONSIDERED ACTION TARGET INC. SUGGESTIONS, UNLESS PROPER DIMENSIONAL PLANS / INFORMATION HAS BEEN PROVIDED. ACTION TARGET INC. IS NOT LIABLE FOR ANY CONFLICTS BETWEEN ITS EQUIPMENT AND ANY VARIATIONS FROM THE BUILDING DESIGN (AS PORTRAYED FROM CUSTOMER TO ACTION TARGET INC. EITHER BY PROVIDED PLANS OR OTHER FORM OF COMMUNICATION) AND THE COMPLETED BUILDINGS DIMENSIONS AND LAYOUT. ADDITIONAL MATERIAL AND PRODUCT REDESIGN MAY BE REQUIRED IF THE STRUCTURE VARIES FROM INDICATED SIZE AND LAYOUT.
- STRUCTURAL:
  WHERE ENGINEER IS REQUIRED ALL ITEMS PERTAINING TO ACTION TARGET INC. MATERIALS AND EQUIPMENT, AND IT'S CONNECTION TO / SUPPORT FROM THE STRUCTURE IS TO BE VERIFY AND APPROVED BY THE ENGINEER OF RECORD. ALL ACTION TARGET INC. PLANS INDICATING ANCHOR SIZES AND CONNECTION METHOD, CONCRETE DEPTH, REBAR LAYOUTS, AND ANY OTHER ITEMS PERTAINING TO THE CONNECTION AND SUPPORT OF ACTION TARGET INC. EQUIPMENT TO BE UTILIZED BY ENGINEER AS ACTION TARGET INC.'S PREFERRED METHOD.
- USE AND REPRODUCTION:
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- SHEETS Z5XX.X
  STANDARD DETAIL SHOWN FOR REFERENCE ONLY ACTUAL INSTALLATION MAY VARY.

GENERAL ELECTRICAL NEEDS:

1. RANGE WILL HAVE 120/240 VAC AND MULTIPLE 20 AMP CIRCUITS PROVIDED BY OTHERS IF ANY OF THE FOLLOWING CONDITIONS ARE PRESENT IN ATTACHED RANGE DESIGN:
   - TARGETRY IS PRESENT.
   - TARGETRY CONTROL EQUIPMENT IS PRESENT.
   - STALL (AND/OR) RANGE LIGHTING IS PRESENT.
   - COMMUNICATION SYSTEMS ARE PRESENT.
   - A DUST COLLECTION UNIT IS PRESENT.
   - AN AIR COMPRESSOR IS PRESENT
2. RANGE WILL HAVE MULTIPLE 3 PHASE 208/240/480 VAC DISCONNECTS PROVIDED BY OTHERS IF ANY OF THE FOLLOWING CONDITIONS ARE PRESENT IN ATTACHED RANGE DESIGN:
   - A SCREW CONVEYOR SYSTEM IS PRESENT. (TYPICALLY UTILIZES 2 OR MORE 3HP 3 PHASE MOTORS)
   - A DUST COLLECTION UNIT IS PRESENT.
3. CUSTOMER TO PROVIDE ACCESS TO INTERNET FOR ACTION TARGET EQUIPMENT.
4. △ XX - THE △ DENOTES HOME RUN OF CAT5e OR GREATER FROM DATA JACK LOCATION TO GENESIS RANGE SERVER PATCH PANEL.
5. △ XX - THE (XX) DENOTES PORT ID# AND CORRESPONDING PATCH PANEL WIRING LOCATION.

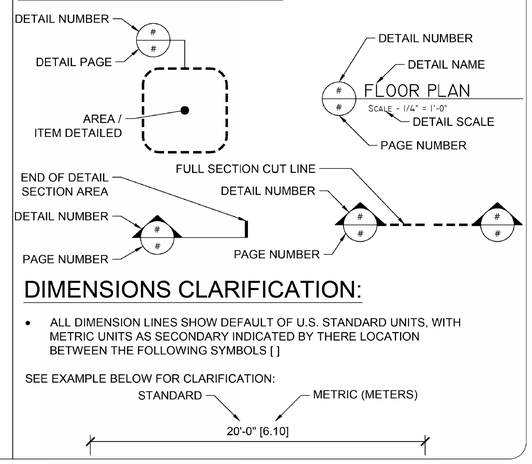
ABBREVIATIONS:

ABBREVIATED	UN-ABBREVIATED
~	APPROXIMATE / APPROXIMATELY
AFF	ABOVE FINISHED FLOOR
APROX	APPROXIMATE / APPROXIMATELY
ATI	ACTION TARGET INC.
AWG	AMERICAN WIRE GAUGE
BOS	BOTTOM OF STEEL
BOT	BOTTOM
CL	CENTER LINE
CFM	CUBIC FEET PER MINUTE
DCU	DUST COLLECTION UNIT
EMT	ELECTRICAL METALLIC TUBING
EQ	EQUAL / EQUALS
EQ APROX	EQUAL APPROXIMATE
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
LBS	POUNDS
MDU	MOTOR DRIVE UNIT
NTS	NOT TO SCALE
PSI	POUNDS PER SQUARE INCH
RBT	RUBBER BERM TRAP
SCS	SCREW CONVEYOR SYSTEM
SPKR	SPEAKER
TCT	TOTAL CONTAINMENT TRAP
TCT 2	TOTAL CONTAINMENT TRAP VERSION 2
TCT 4	TOTAL CONTAINMENT TRAP VERSION 4
TCT 4D	TOTAL CONTAINMENT TRAP VERSION 4D
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
GSR	GENESIS SERVER RACK
SRAS	SMART RANGE AXIS SCREEN

SHEET INDEX:

Z001	INDEX PAGE
Z101	RANGE PLAN
Z102	BAFFLE HANGING POINTS
Z103	REFLECTED CEILING PLAN
Z104	TRAP FOOTPRINT & LAYOUT
Z301	RANGE SECTION
Z302	INSTALL DIMENSIONS
Z511.0	INTEGRATED BAFFLE CLOSURE PANEL DETAILS
Z511.3	FIXED INTEGRATED BAFFLE (Z PURLIN) DETAILS
Z511.7	TACTICAL INTEGRATED BAFFLE (Z PURLIN) DETAILS
Z519.3	FURRED WALL BAFFLE DETAILS
Z519.5	WALL DEFLECTOR DETAILS
Z525.3	RUBBER BERM TRAP DETAILS
Z532.9	FIXED LATERAL DETAILS
Z533.9	INVERTED DRM PRO DETAILS
Z587.7	8' WOOD WOOL DETAILS
Z700	GENERAL ELECTRICAL NOTES
Z701	ELECTRICAL PLAN
Z702	ELECTRICAL SECTION
Z703.1	SERVER RACK DETAILS
Z732.9	FIXED LATERAL w/DRM PRO ELECTRICAL SCHEMATIC

SYMBOLS & CALLOUTS



DIMENSIONS CLARIFICATION:

- ALL DIMENSION LINES SHOW DEFAULT OF U.S. STANDARD UNITS, WITH METRIC UNITS AS SECONDARY INDICATED BY THERE LOCATION BETWEEN THE FOLLOWING SYMBOLS [ ]

SEE EXAMPLE BELOW FOR CLARIFICATION:

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PROJECT NAME

RIVIERA BEACH PD

Project Manager:	BRIAN SANDERS
Territory Manager:	AARON LUDWIG
Project Engineer:	ROB DECOSTA
Drawn By:	JA
Approved By:	JAMIE HADERLIE
Origination Date:	06/23/25

No	BY	REVISION	DATE
1	JA	UPDATE BACKGROUNDS	09/11/25

SHEET NAME

INDEX PAGE

DRAWING NUMBER

6342

SHEET NUMBER

Z001

SCALED FOR ORIGINAL DRAWING AT 22" X 34"

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32750

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DATE OF ISSUE

10/14/2025

PROJECT NAME

RBPD EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION

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PROJECT NUMBER

1007657.00

SHEET TITLE

FIRING RANGE EQUIPMENT DRAWINGS

SHEET NUMBER

Q1.01E

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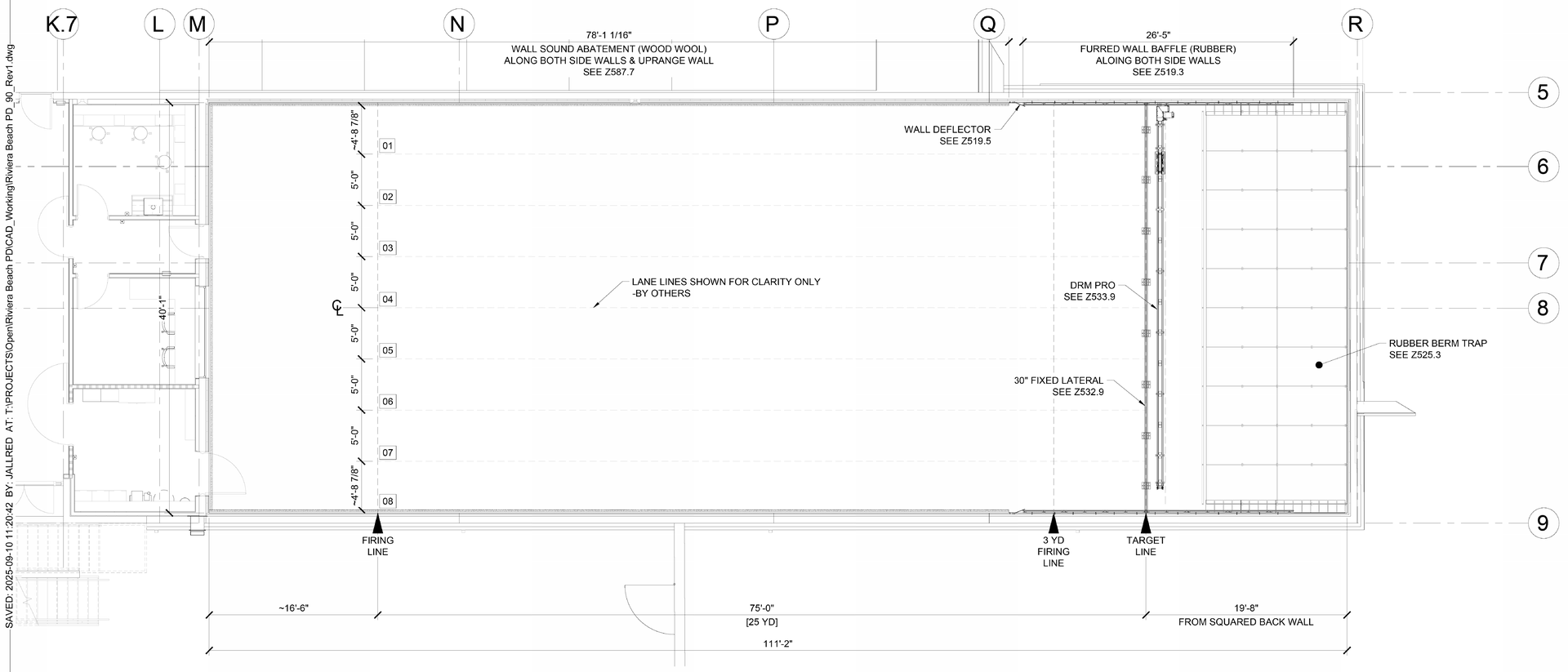

1 Z101 RANGE PLAN
SCALE 3/16" = 1'-0"

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Origination Date:	06/23/25

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SHEET NAME
RANGE PLAN

DRAWING NUMBER
6342

SHEET NUMBER
Z101

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SHEET TITLE
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SHEET NUMBER
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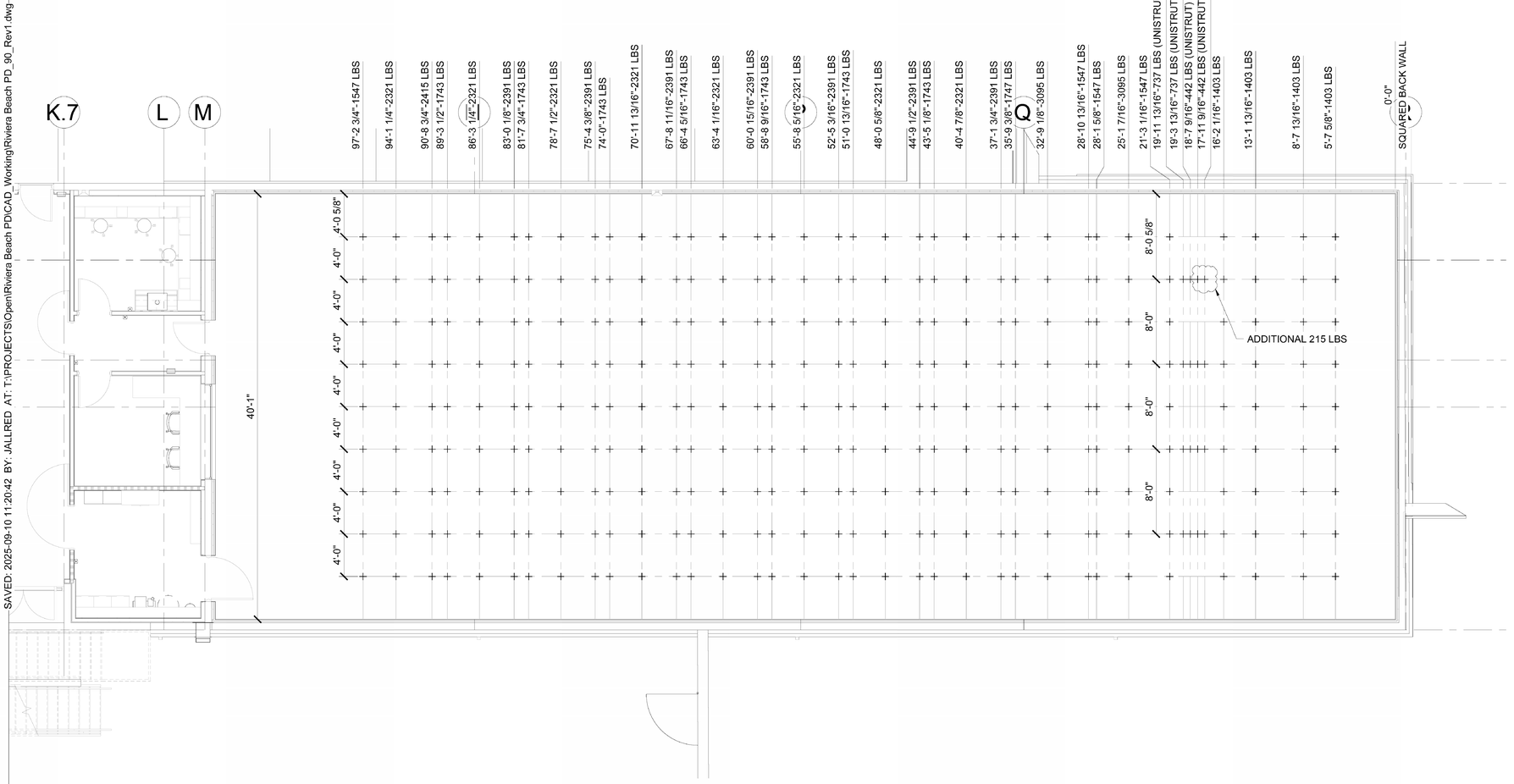
NOTE:
WEIGHTS REFLECT ENTIRE ROW FROM INSIDE OF WALL TO INSIDE OF WALL.



1 Z102 BAFFLE HANGING POINTS
SCALE - 3/16" = 1'-0"

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Territory Manager:	AARON LUDWIG
Project Engineer:	ROB DECOSTA
Drawn By:	JA
Approved By:	JAMIE HADERLIE
Origination Date:	06/23/25

No	BY	REVISION	DATE
1	JA	UPDATE BACKGROUNDS	09/11/25

SHEET NAME
BAFFLE HANGING POINTS

DRAWING NUMBER
6342

SHEET NUMBER
Z102

SCALED FOR ORIGINAL DRAWING AT 22" X 34"

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PROJECT NAME
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PROJECT LOCATION
2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
FIRING RANGE EQUIPMENT DRAWINGS

SHEET NUMBER
Q1.03E

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NOTE:
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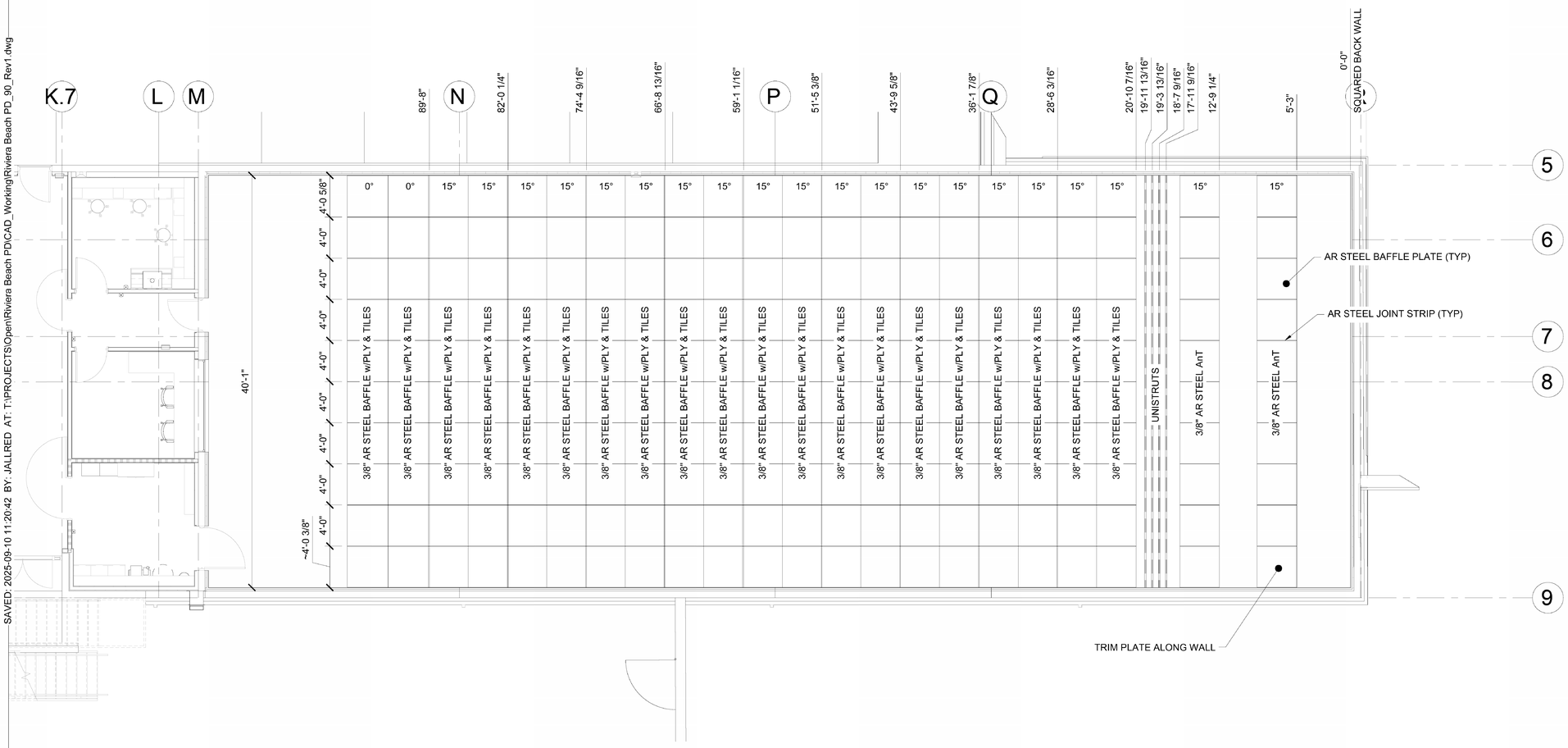
DIMENSIONS SHOWN ARE TO BOTTOM OF STEEL AT BOTTOM OF BAFFLE.



1 Z103 REFLECTED CEILING PLAN
SCALE - 3/16" = 1'-0"

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Territory Manager:	AARON LUDWIG
Project Engineer:	ROB DECOSTA
Drawn By:	JA
Approved By:	JAMIE HADERLIE
Origination Date:	06/23/25

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1	JA	UPDATE BACKGROUNDS	09/11/25

SHEET NAME

REFLECTED CEILING PLAN

DRAWING NUMBER

6342

SHEET NUMBER

Z103

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PROJECT LOCATION

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SHEET TITLE

FIRING RANGE EQUIPMENT DRAWINGS

SHEET NUMBER

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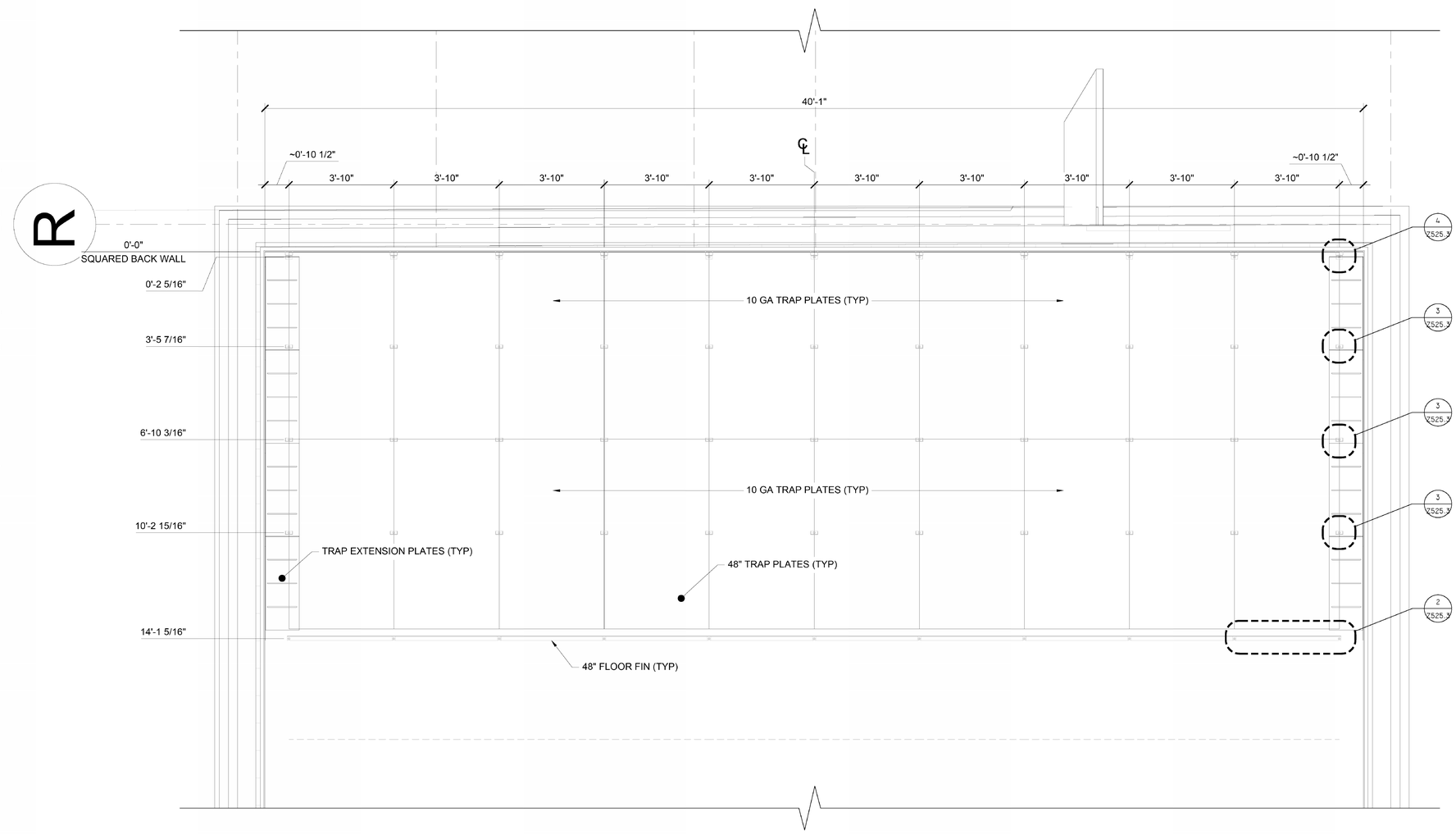

1 Z104 TRAP FOOTPRINT & LAYOUT
SCALE - 1/2" = 1'-0"

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Project Engineer:	ROB DECOSTA
Drawn By:	JA
Approved By:	JAMIE HADERLIE
Origination Date:	06/23/25

No	BY	REVISION	DATE
1	JA	UPDATE BACKGROUNDS	09/11/25

SHEET NAME
TRAP FOOTPRINT & LAYOUT

DRAWING NUMBER
6342

SHEET NUMBER
Z104

SCALED FOR ORIGINAL DRAWING AT 22" X 34"

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PROJECT LOCATION
2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER
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SHEET TITLE
FIRING RANGE EQUIPMENT DRAWINGS

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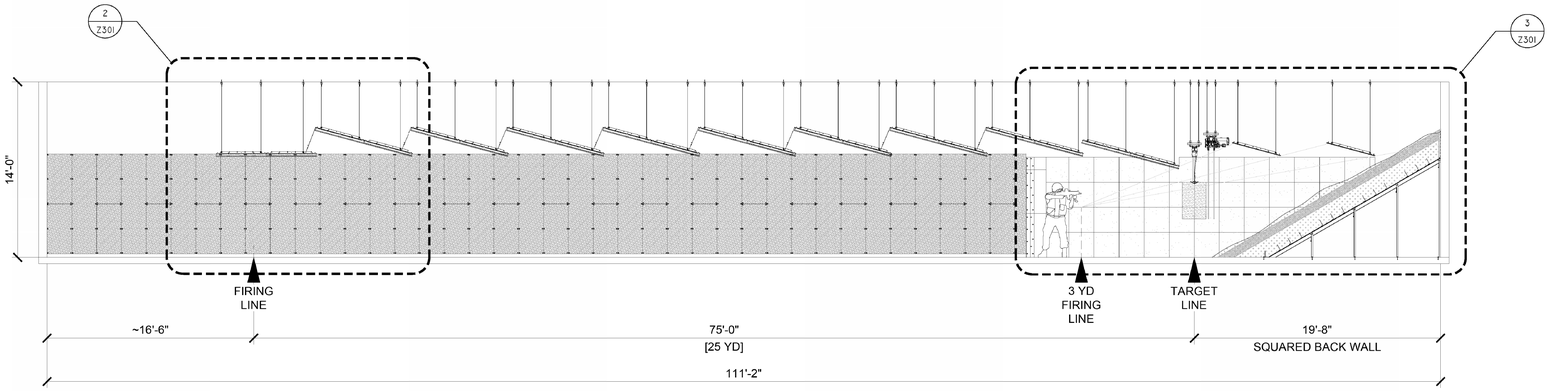
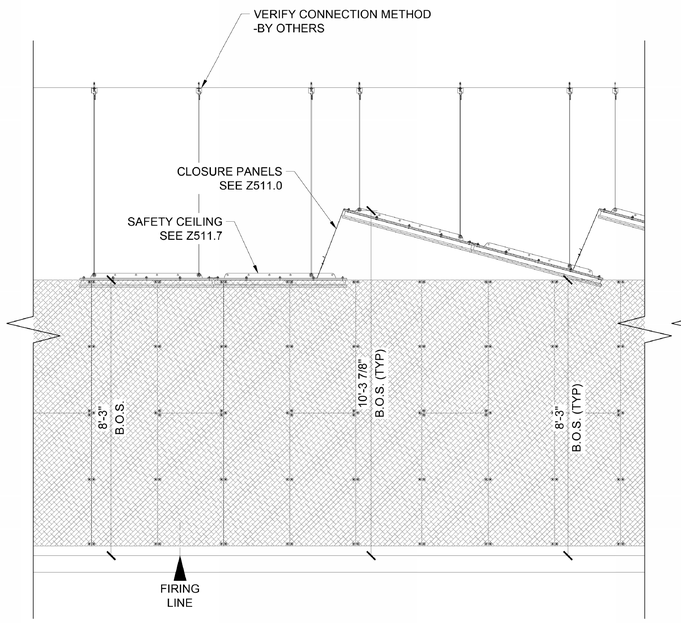


1 Z301 RANGE SECTION
SCALE - 3/16" = 1'-0"



2 Z301 FIRING LINE SECTION
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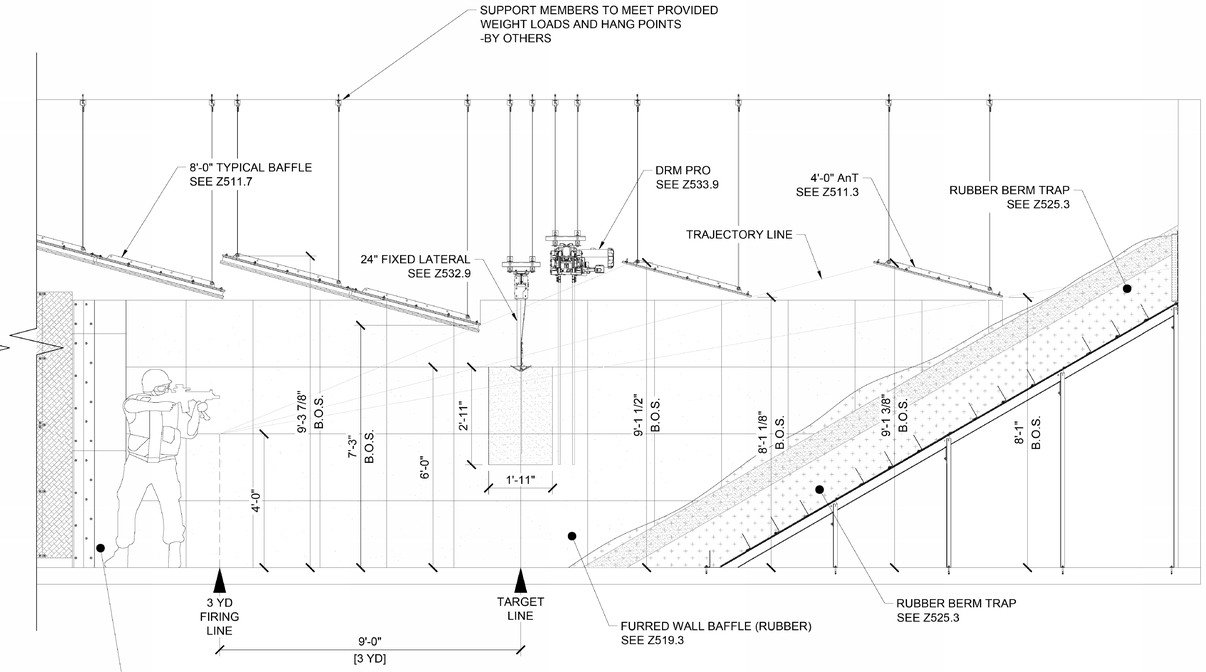

3 Z301 TARGET LINE SECTION
SCALE - 1/2" = 1'-0"

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SHEET NAME
RANGE SECTION

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6342

SHEET NUMBER
Z301

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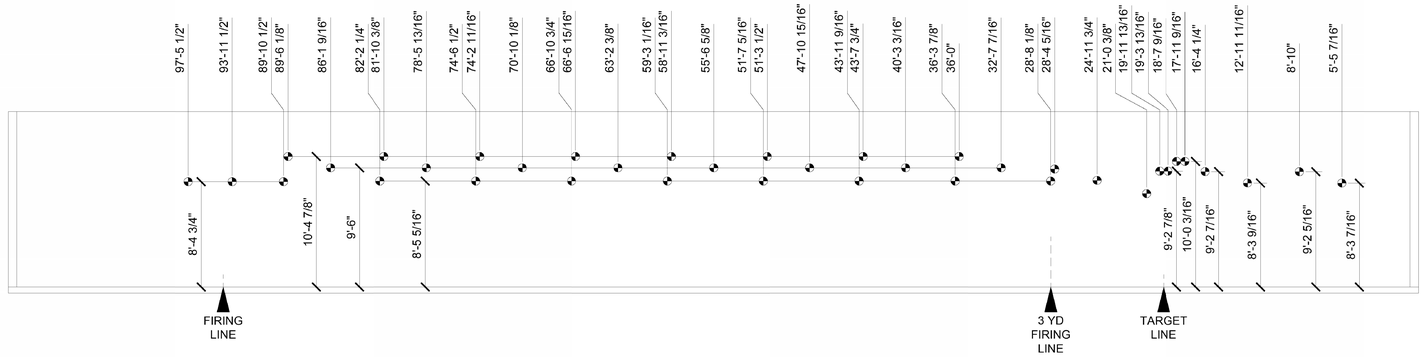

1 Z302 INSTALL DIMENSIONS
SCALE - 3/16" = 1'-0"

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SHEET NAME
INSTALL DIMENSIONS

DRAWING NUMBER
6342

SHEET NUMBER
Z302

SCALED FOR ORIGINAL DRAWING AT 22" X 34"

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PUBLIC SAFETY CONSULTANT/ARCHITECT
JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION
STATE OF FLORIDA
JOHNNIE LOHRUM JR.
AR 96099
REGISTERED ARCHITECT

DRAWING HISTORY

No.	DATE	DESCRIPTION

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS / PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPD EVIDENCE & FIRE RANGE BUILDING

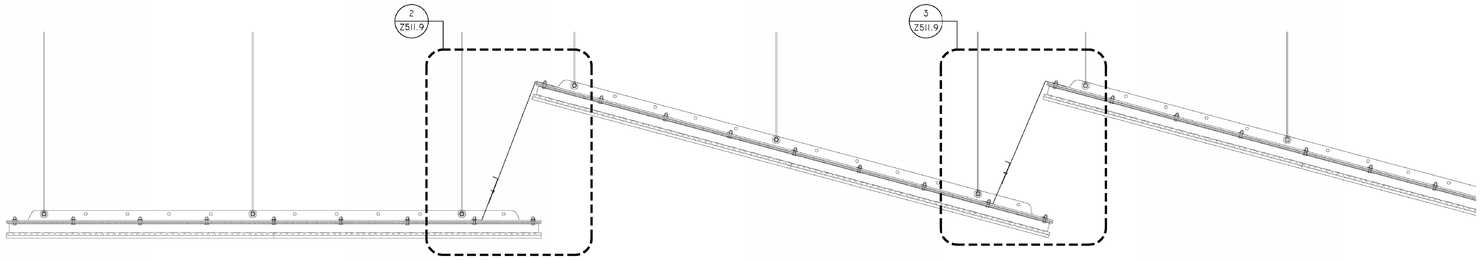
PROJECT LOCATION
2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

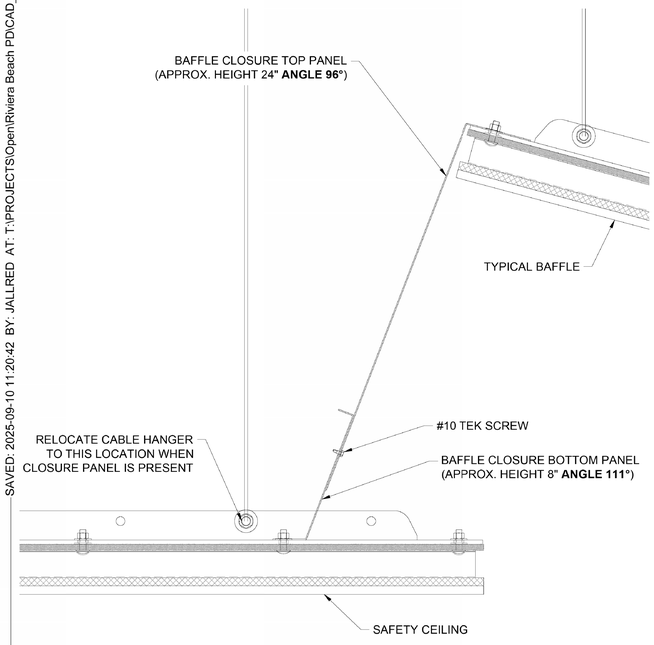
SHEET TITLE
FIRING RANGE EQUIPMENT DRAWINGS

SHEET NUMBER
Q1.07E

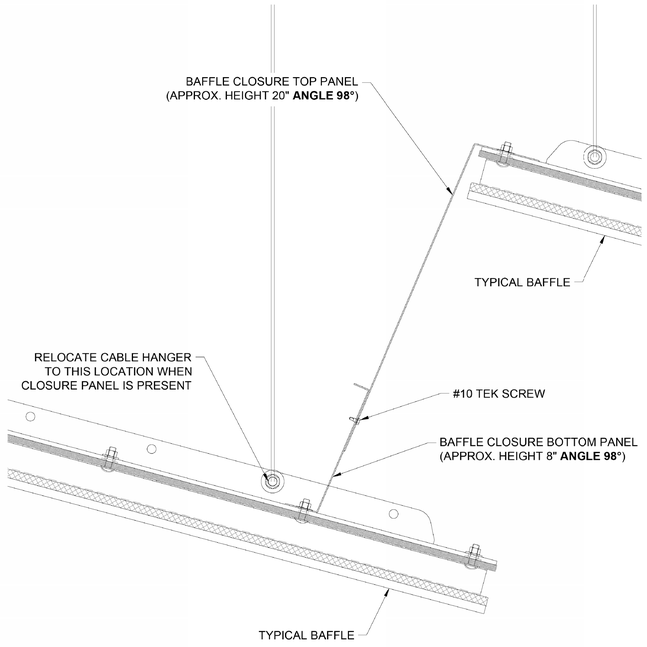
NOT FOR CONSTRUCTION



1 Z511.0 TACTICAL BAFFLE CLOSURE PANELS
SCALE - 1" = 1'-0"



2 Z511.0 SAFETY CEILING CLOSURE PANEL
SCALE - 3" = 1'-0"



3 Z511.0 TYPICAL CLOSURE PANEL
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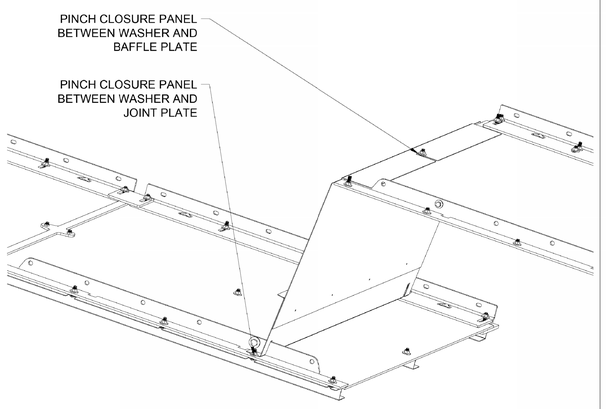

4 Z511.0 CLOSURE PANEL CONNECTION DETAIL
SCALE - 1 1/2" = 1'-0"

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PROJECT STATUS

90% SUBMITTAL
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PROJECT NAME

RIVIERA BEACH PD

Project Manager:	BRIAN SANDERS
Territory Manager:	AARON LUDWIG
Project Engineer:	ROB DECOSTA
Drawn By:	JA
Approved By:	JAMIE HADERLIE
Origination Date:	06/23/25

No	BY	REVISION	DATE
1	JA	UPDATE BACKGROUNDS	09/11/25

SHEET NAME

INTEGRATED BAFFLE CLOSURE PANEL DETAILS

DRAWING NUMBER

6342

SHEET NUMBER

Z511.0

SCALED FOR ORIGINAL DRAWING AT 22" X 34"

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PROJECT NUMBER

1007657.00

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SHEET NUMBER

Q1.08E

SAVED: 2025-09-10 11:20:42 BY: JALLRED AT: T:\PROJECTS\Open\Riviera Beach PD\CAD_Working\Riviera Beach PD_90_Rev1.dwg
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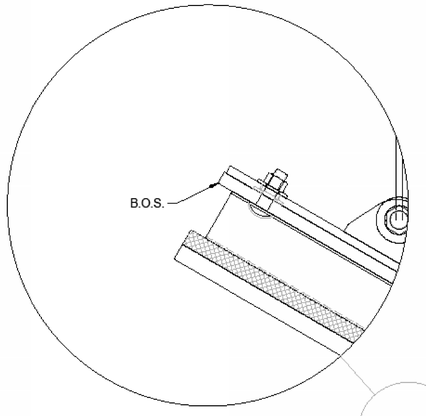
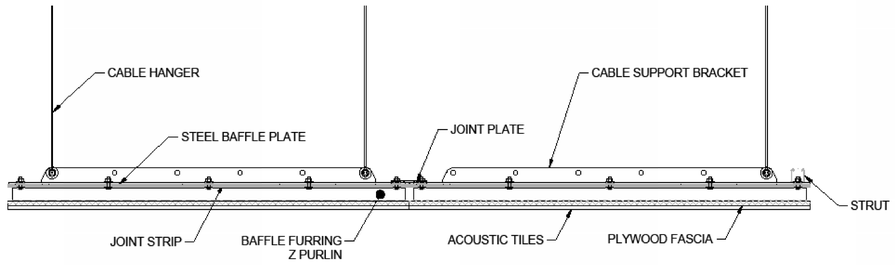
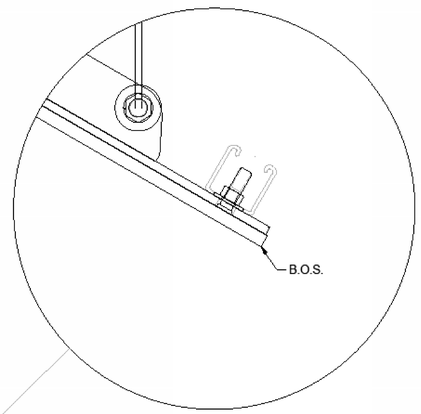
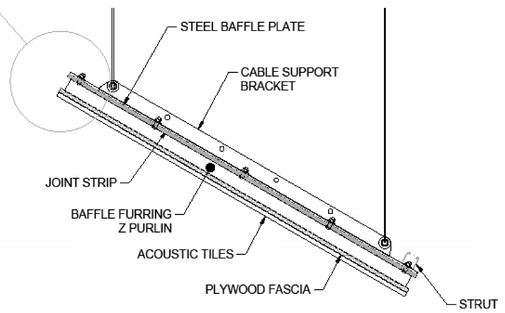


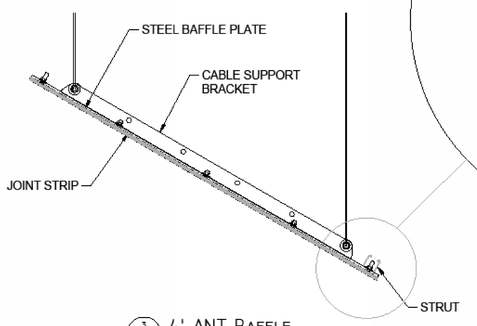


1 Z511.3 8' SAFETY CEILING
SCALE - 1-1/2" = 1'-0"

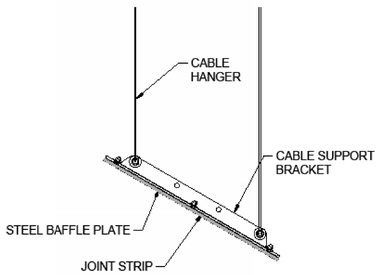




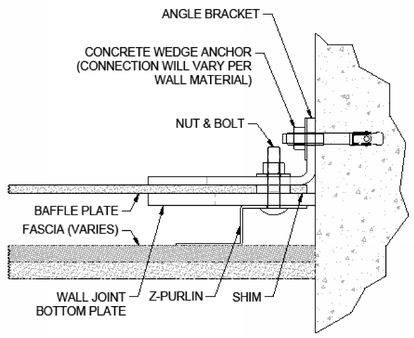
2 Z511.3 4' TYPICAL BAFFLE
SCALE - 1-1/2" = 1'-0"



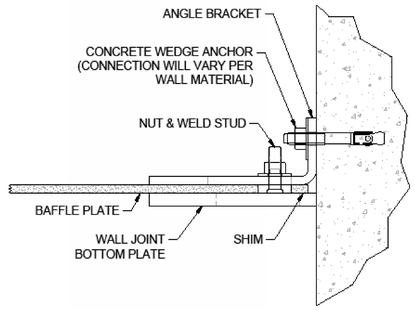
3 Z511.3 4' ANT BAFFLE
SCALE - 1-1/2" = 1'-0"



4 Z511.3 2' ANT BAFFLE
SCALE - 1-1/2" = 1'-0"



5 Z511.3 BAFFLE TO WALL CONNECTION - FASCIA
SCALE - 6" = 1'-0"



6 Z511.3 BAFFLE TO WALL CONNECTION - ANT
SCALE - 6" = 1'-0"

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Territory Manager:	AARON LUDWIG
Project Engineer:	ROB DECOSTA
Drawn By:	JA
Approved By:	JAMIE HADERLIE
Origination Date:	06/23/25

No	BY	REVISION	DATE
1	JA	UPDATE BACKGROUNDS	09/11/25

SHEET NAME

INTEGRATED BAFFLE DETAILS FIXED

DRAWING NUMBER

6342

SHEET NUMBER

Z511.3

SCALED FOR ORIGINAL DRAWING AT 22" X 34"

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
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REGISTRATION

STATE OF FLORIDA — CONNIE LOHRUM — AR 96099 — REGISTERED ARCHITECT

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CONSULTANT

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2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER

1007657.00

SHEET TITLE

FIRING RANGE EQUIPMENT DRAWINGS

SHEET NUMBER

Q1.09E

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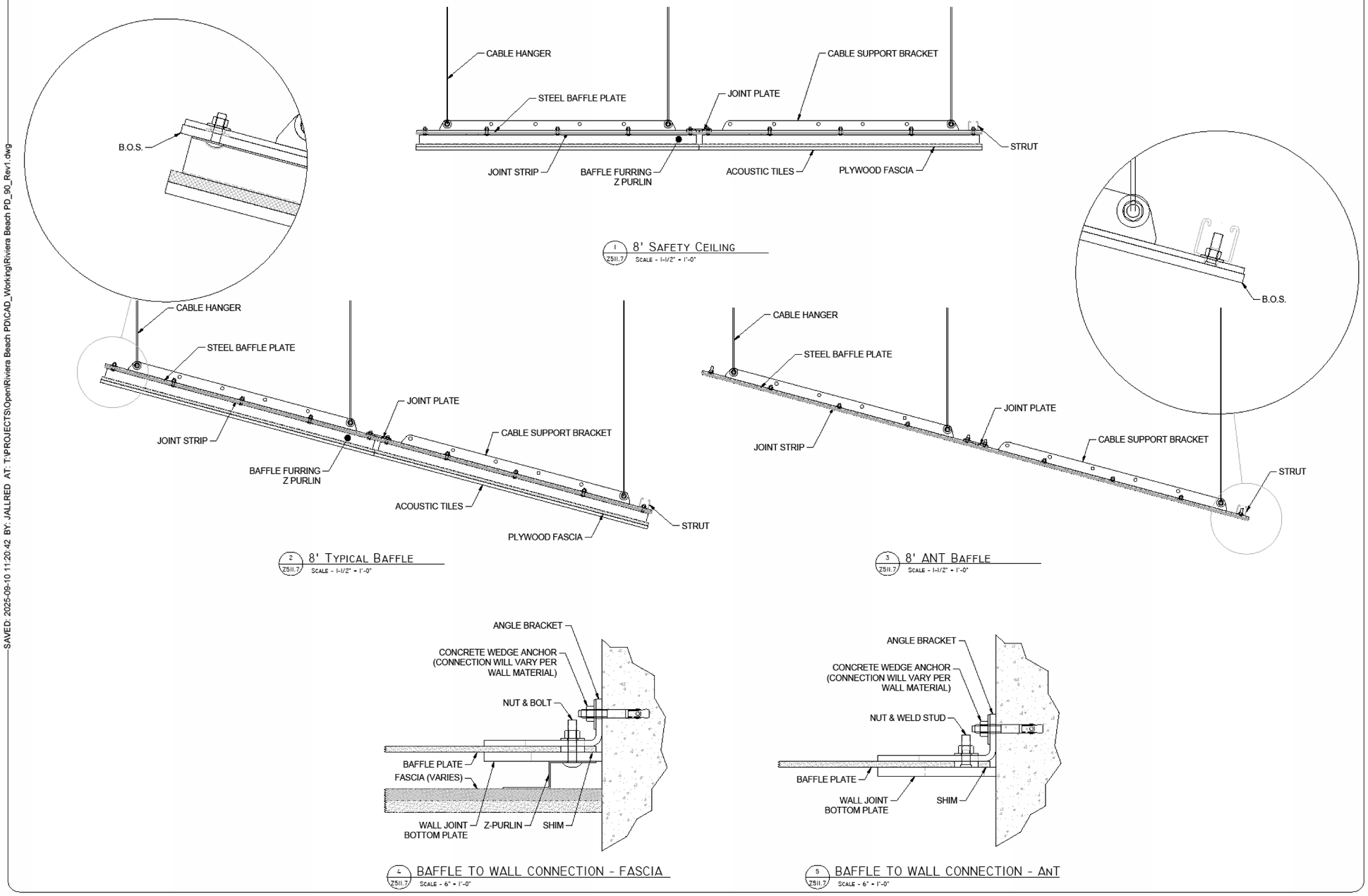

1 Z511.7 8' SAFETY CEILING
SCALE - 1-1/2" = 1'-0"

2 Z511.7 8' TYPICAL BAFFLE
SCALE - 1-1/2" = 1'-0"

3 Z511.7 8' ANT BAFFLE
SCALE - 1-1/2" = 1'-0"

4 Z511.7 BAFFLE TO WALL CONNECTION - FASCIA
SCALE - 6" = 1'-0"

5 Z511.7 BAFFLE TO WALL CONNECTION - ANT
SCALE - 6" = 1'-0"

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PROJECT NAME
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Project Manager:	BRIAN SANDERS
Territory Manager:	AARON LUDWIG
Project Engineer:	ROB DECOSTA
Drawn By:	JA
Approved By:	JAMIE HADERLIE
Origination Date:	06/23/25

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1	JA	UPDATE BACKGROUNDS	09/11/25

SHEET NAME
INTEGRATED BAFFLE DETAILS TACTICAL

DRAWING NUMBER
6342

SHEET NUMBER
Z511.7

SCALED FOR ORIGINAL DRAWING AT 22" X 34"

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2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER
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FIRING RANGE EQUIPMENT DRAWINGS

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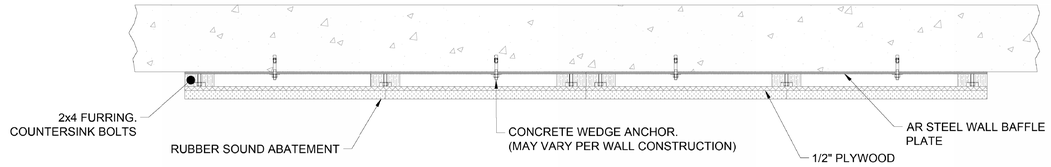
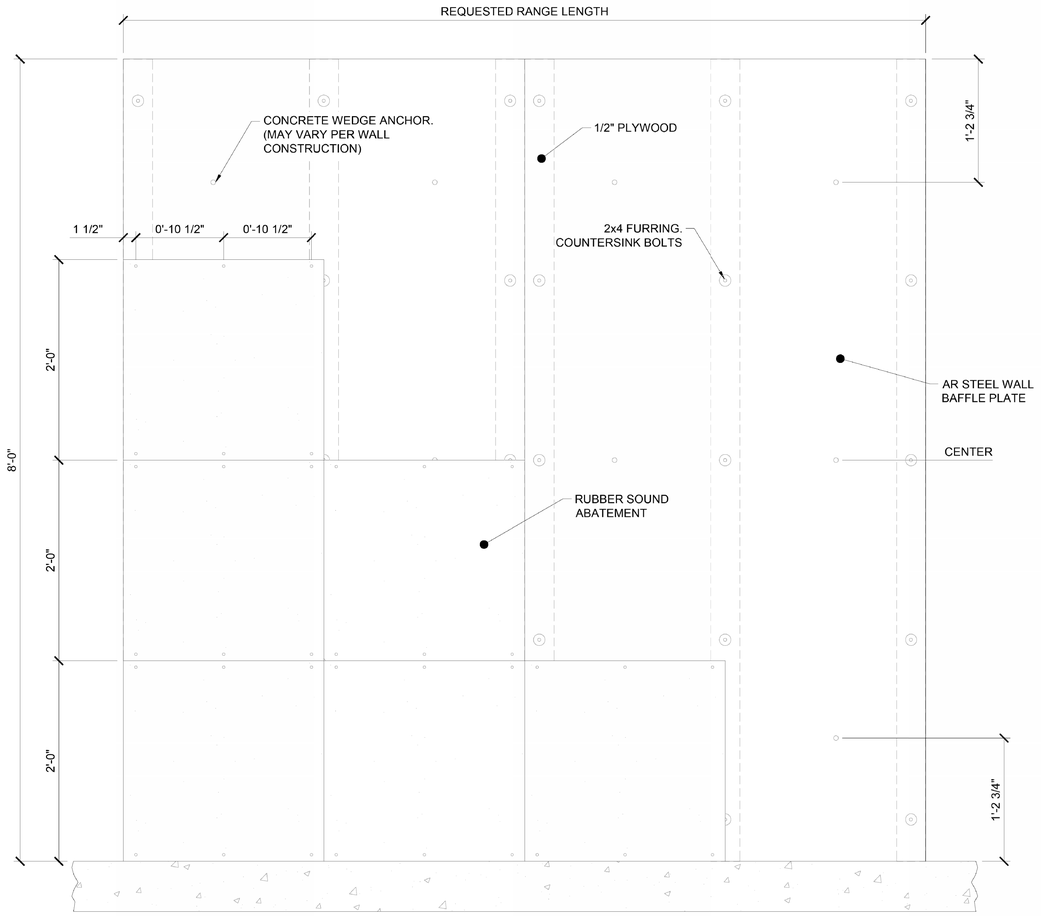
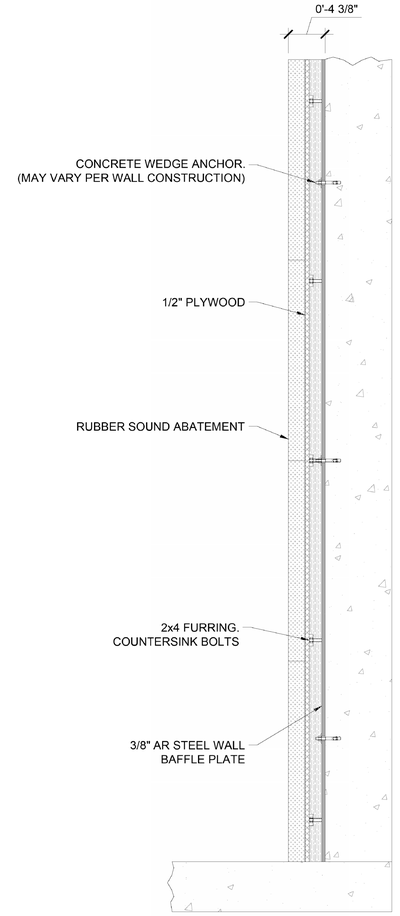


1 Z519.3 WALL BAFFLE (TOP)
SCALE - 1-1/2" = 1'-0"



2 Z519.3 WALL BAFFLE (FRONT)
SCALE - 1-1/2" = 1'-0"



3 Z519.3 WALL BAFFLE (SIDE)
SCALE - 1-1/2" = 1'-0"

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SHEET NAME

FURRED WALL
BAFFLE DETAILS

DRAWING NUMBER

6342

SHEET NUMBER

Z519.3

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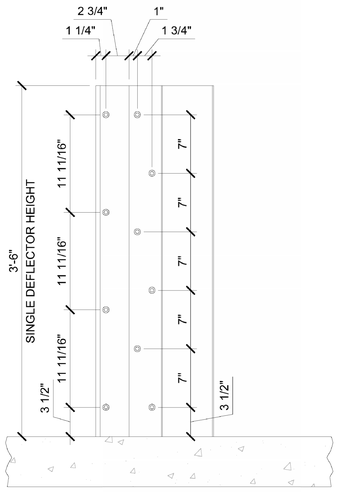
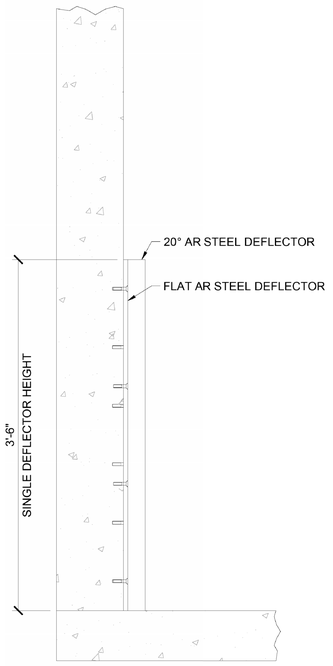
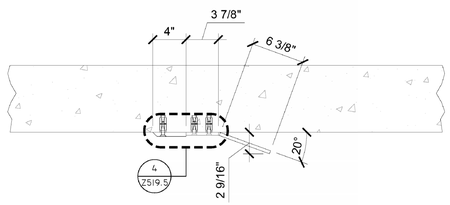


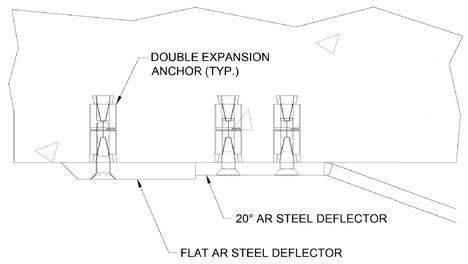
1 Z519.5 WALL DEFLECTOR (20°) (FRONT)
SCALE - 1-1/2" = 1'-0"



2 Z519.5 WALL DEFLECTOR (20°) (SIDE)
SCALE - 1-1/2" = 1'-0"



3 Z519.5 WALL DEFLECTOR (20°) (TOP)
SCALE - 1-1/2" = 1'-0"



4 Z519.5 DEFLECTOR JOINT DETAIL
SCALE - 6" = 1'-0"

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SHEET NAME
WALL DEFLECTOR DETAILS

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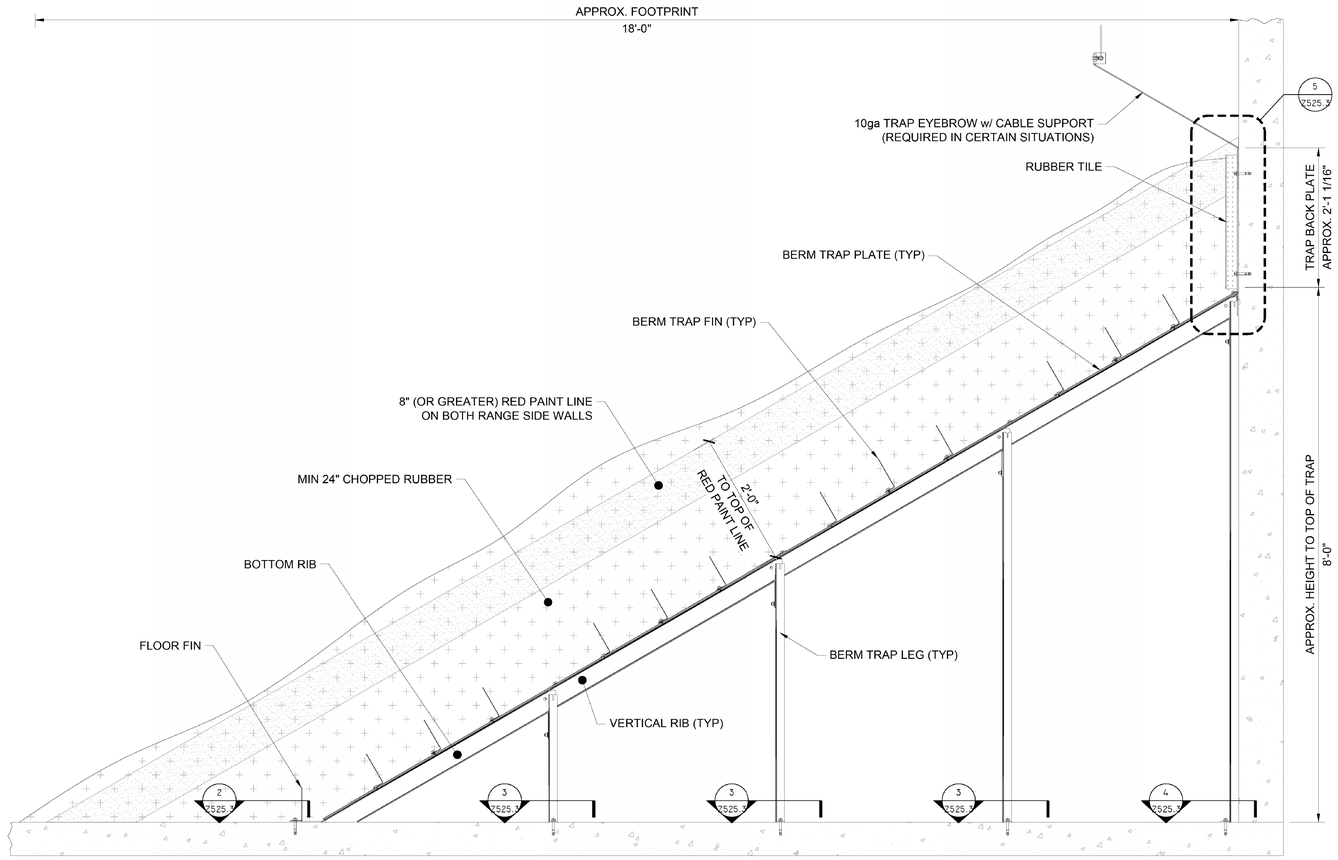
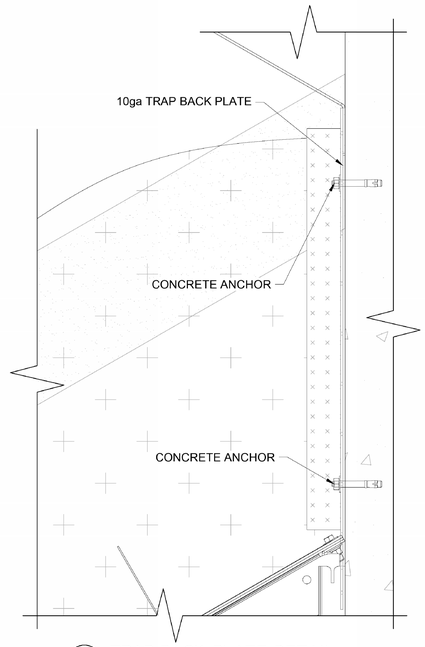


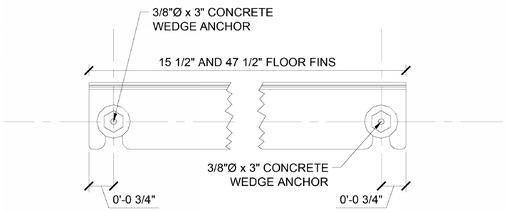
1 Z525.3 RUBBER BERM TRAP (8' TALL OPTION)
SCALE - 1" = 1'-0"

NOTE:
ATI RECOMMENDS A FLOOR-TO-CEILING CONCRETE WALL BEHIND TRAP.

IF CEILING STRUCTURE IS NOT CONCRETE, CUSTOMER SHALL CONFIRM THAT PLANNED RANGE FACILITY CEILING STRUCTURE IS CAPABLE OF PREVENTING ERRANT OR SECONDARY BULLET IMPACTS FROM ESCAPING THE PREMISES.



5 Z525.3 TRAP BACK PLATE DETAIL
SCALE - 3" = 1'-0"



2 Z525.3 FLOOR FIN ANCHOR DETAIL
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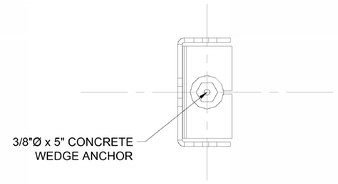

3 Z525.3 LEG ANCHOR DETAIL
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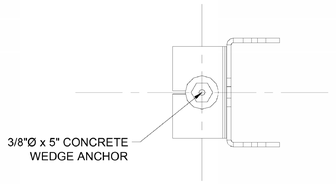

4 Z525.3 BACK LEG ANCHOR DETAIL
SCALE - 6" = 1'-0"

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PROJECT STATUS
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PROJECT NAME
RIVIERA BEACH PD

Project Manager:	BRIAN SANDERS
Territory Manager:	AARON LUDWIG
Project Engineer:	ROB DECOSTA
Drawn By:	JA
Approved By:	JAMIE HADERLIE
Origination Date:	06/23/25

No	BY	REVISION	DATE
1	JA	UPDATE BACKGROUNDS	09/11/25

SHEET NAME
RUBBER BERM TRAP DETAILS

DRAWING NUMBER
6342

SHEET NUMBER
Z525.3

SCALED FOR ORIGINAL DRAWING AT 22" X 34"

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REGISTRATION
STATE OF FLORIDA — JOHNNIE LONDRIE JR — AR 0009059 — REGISTERED ARCHITECT

DRAWING HISTORY

No	DATE	DESCRIPTION

CONSULTANT

PROJECT STATUS
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PROJECT NAME
RBPD EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
FIRING RANGE EQUIPMENT DRAWINGS

SHEET NUMBER
Q1.13E

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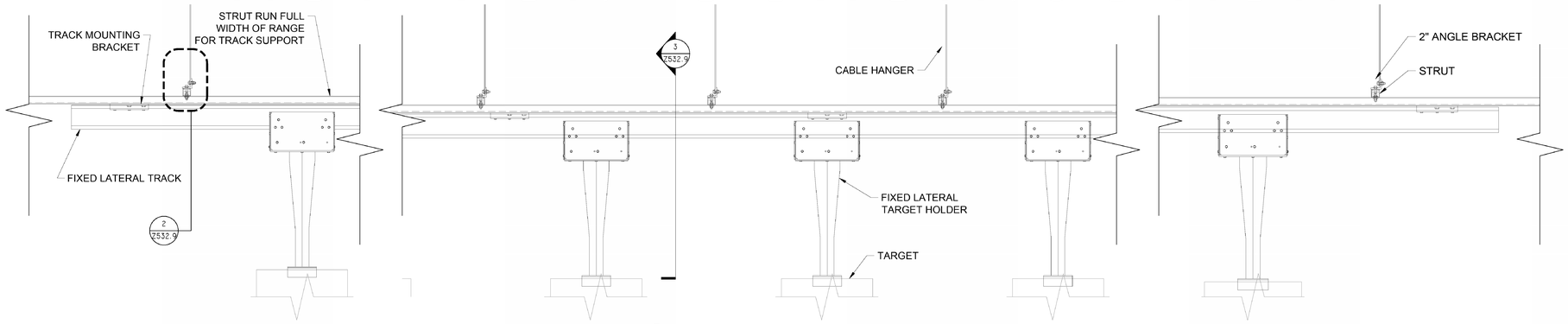

1 Z532.9 FIXED LATERAL FRONT VIEW
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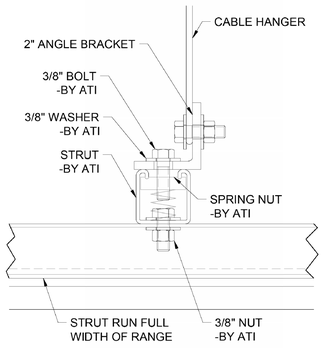

2 Z532.9 WIRE HANGER CONNECTION
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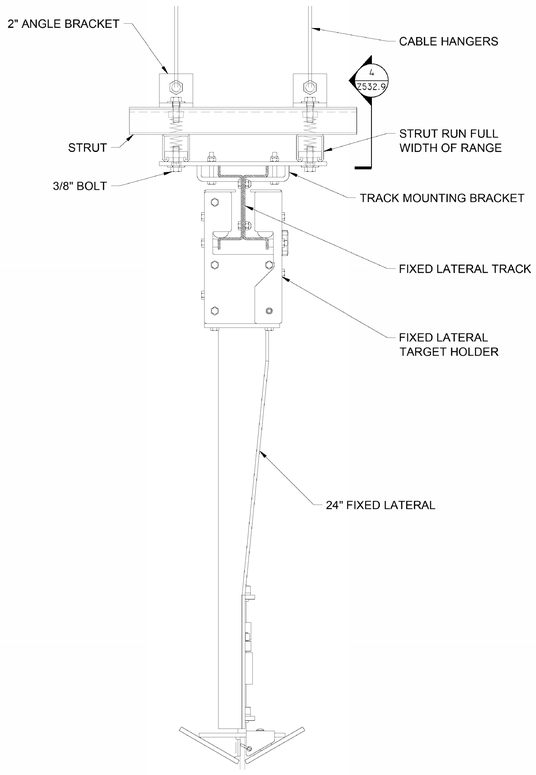

3 Z532.9 RIGID BRACE DETAIL
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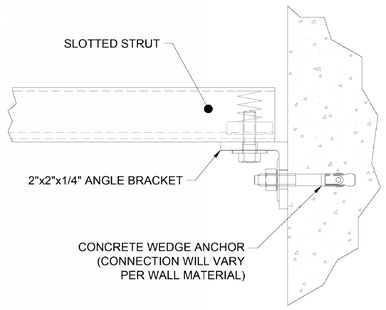

4 Z532.9 STRUT TO WALL CONNECTION
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PROJECT STATUS

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PROJECT NAME

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Project Manager:	BRIAN SANDERS
Territory Manager:	AARON LUDWIG
Project Engineer:	ROB DECOSTA
Drawn By:	JA
Approved By:	JAMIE HADERLIE
Origination Date:	06/23/25

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1	JA	UPDATE BACKGROUNDS	09/11/25

SHEET NAME

FIXED LATERAL DETAILS

DRAWING NUMBER

6342

SHEET NUMBER

Z532.9

SCALED FOR ORIGINAL DRAWING AT 22" X 34"

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REGISTERED ARCHITECT

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2125 AVENUE S, RIVIERA BEACH, FL 33404

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1007657.00

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FIRING RANGE EQUIPMENT DRAWINGS

SHEET NUMBER
Q1.14E

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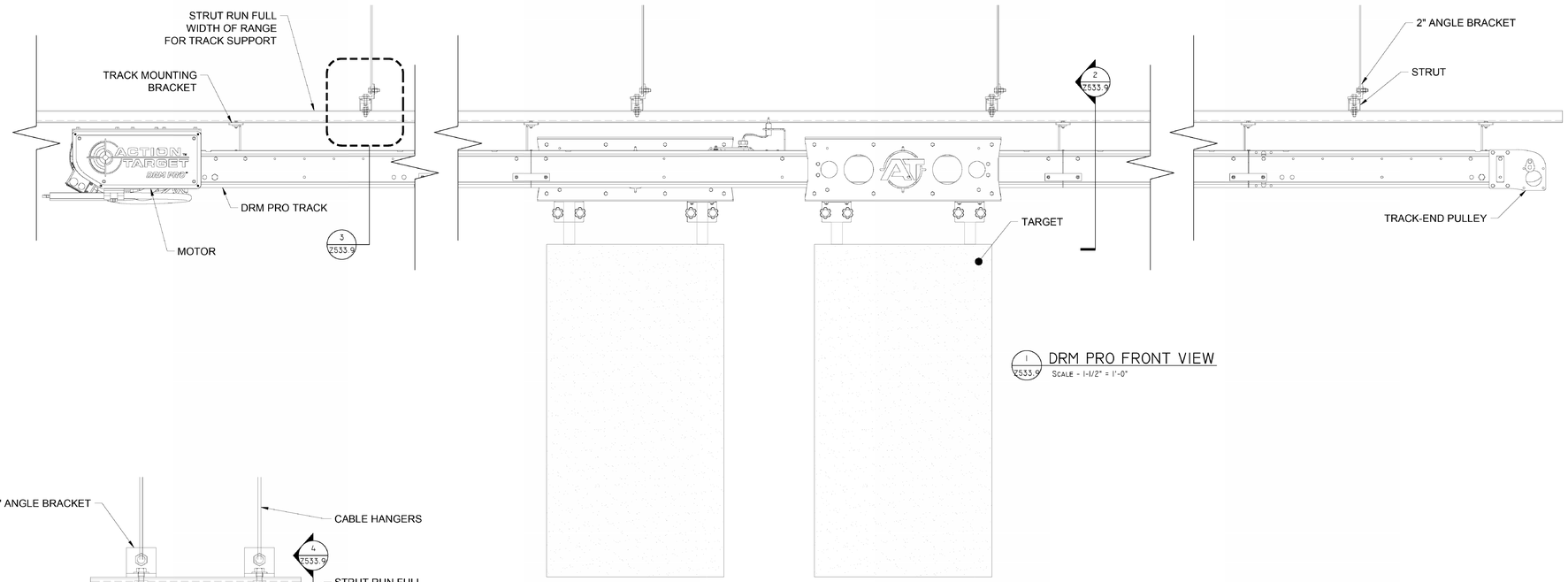

1 Z533.9 DRM PRO FRONT VIEW
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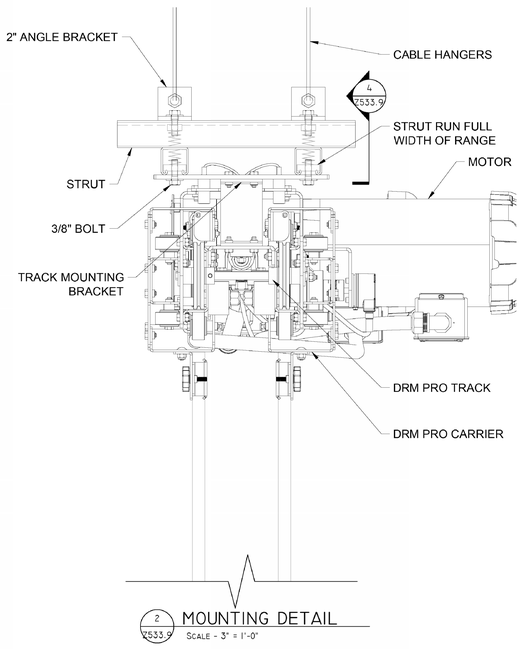

2 Z533.9 MOUNTING DETAIL
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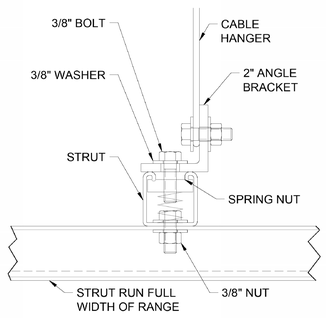
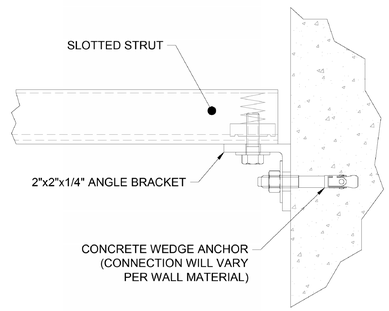


3 Z533.9 WIRE HANGER CONNECTION
SCALE - 6" = 1'-0"



4 Z533.9 STRUT TO WALL CONNECTION
SCALE - 6" = 1'-0"

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PROJECT STATUS

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PROJECT NAME

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Territory Manager:	AARON LUDWIG
Project Engineer:	ROB DECOSTA
Drawn By:	JA
Approved By:	JAMIE HADERLIE
Origination Date:	06/23/25

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1	JA	UPDATE BACKGROUNDS	09/11/25

SHEET NAME

INVERTED DRM PRO DETAILS

DRAWING NUMBER

6342

SHEET NUMBER

Z533.9

SCALED FOR ORIGINAL DRAWING AT 22" X 34"

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PROJECT LOCATION

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PROJECT NUMBER

1007657.00

SHEET TITLE

FIRING RANGE EQUIPMENT DRAWINGS

SHEET NUMBER

Q1.15E

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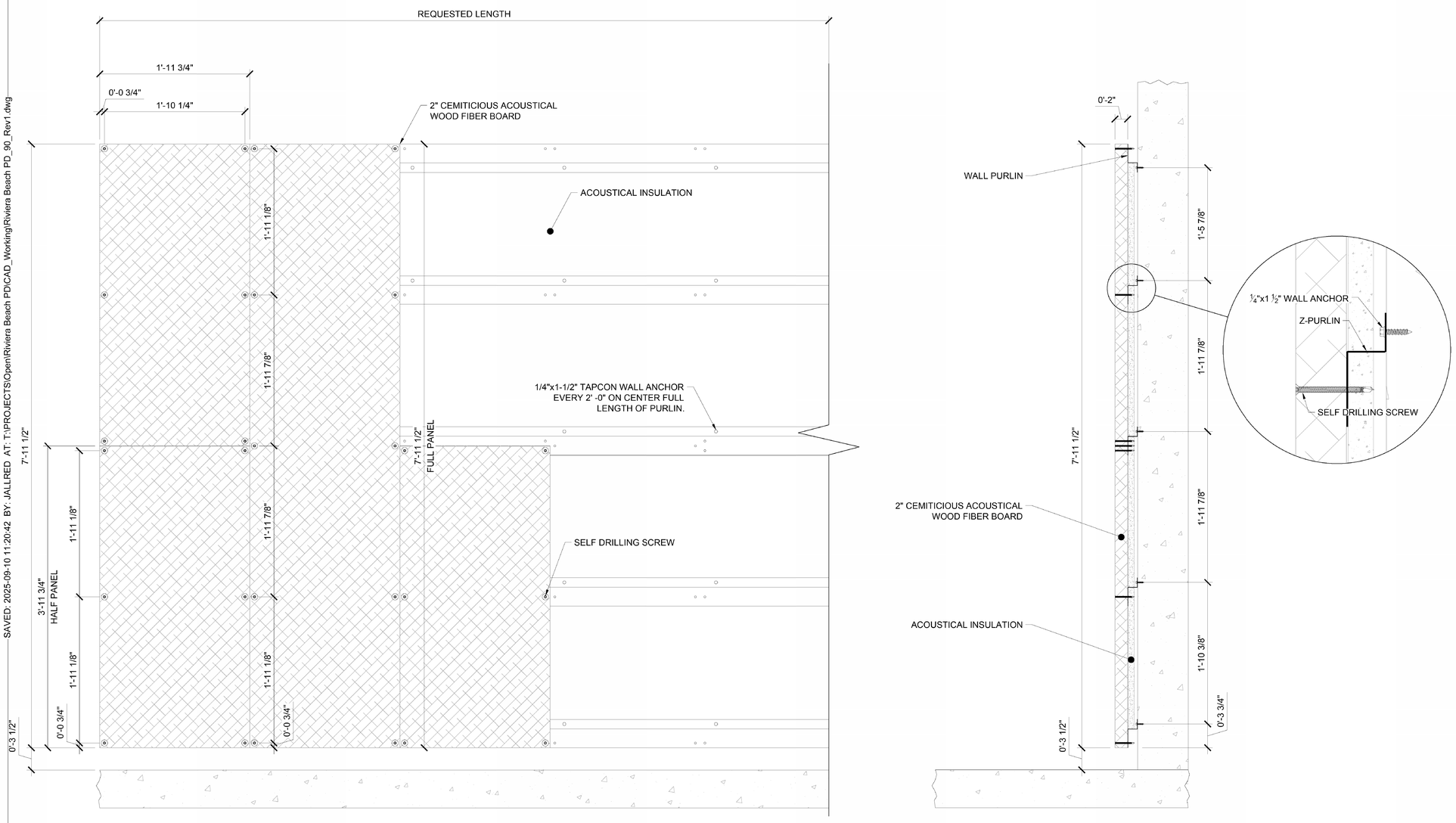

1 Z587.7 WOOD WOOL (FRONT)
SCALE - 1-1/2" = 1'-0"

2 Z587.7 WOOD WOOL (SIDE)
SCALE - 1-1/2" = 1'-0"

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Origination Date:	06/23/25

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1	JA	UPDATE BACKGROUNDS	09/11/25

SHEET NAME
8' WOOD WOOL DETAILS

DRAWING NUMBER
6342

SHEET NUMBER
Z587.7

SCALED FOR ORIGINAL DRAWING AT 22" X 34"

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2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
FIRING RANGE EQUIPMENT DRAWINGS

SHEET NUMBER
Q1.16E

ELECTRICAL GENERAL NOTES

-GENERAL ELECTRICAL NOTES FOR INDOOR AND OUTDOOR RANGES:

1. INSTALLATION OF ALL WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING REGULATIONS, CODES, ETC.
A. LOCAL CODES AND ORDINANCES
B. THE EDITION OF THE NATIONAL ELECTRICAL CODE NFPA 70 (NEC) IN EFFECT.
2. PRIOR TO BEGINNING ANY WORK, SECURE NECESSARY PERMITS OR CLEARANCES FROM THE AUTHORITIES HAVING JURISDICTION. PROVIDE ALL LABOR AND MATERIALS FOR A COMPLETE INSTALLATION. WORK SHALL BE EXECUTED BY EXPERIENCED ELECTRICIANS WHO ARE LICENSED IN THE JURISDICTION WHERE THE PROJECT IS LOCATED.
3. THE CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN SHALL BE MAINTAINED.
4. THE ELECTRICAL PLANS ARE DIAGRAMMATIC ONLY. COORDINATE ELECTRICAL EQUIPMENT LOCATION AND INSTALLATION WITH EQUIPMENT BEING SERVED. PROVIDE ALL POWER AND TELECOMMUNICATION FINAL CONNECTIONS TO THE SYSTEM FURNITURE AS REQUIRED.
5. ALL EQUIPMENT SUCH AS RELAYS, SWITCHES, PANELS, AND OTHER APPURTENANCES SHALL HAVE IDENTIFICATION PLATES OF BLACK LAMINATED PLASTIC WITH 1/2" WHITE LETTERS. ALL JUNCTION BOXES IN CEILING CAN BE MARKED WITH BLACK PERMANENT MARKER ON COVER PLATES AS PANEL DESIGNATION AND CIRCUIT NUMBER FROM WHICH THEY ARE FED.
6. ALL CONDUCTORS SHALL BE IDENTIFIED. ALL WIRING DEVICES SHALL BE USED WITH TYPED LABEL ON THE COVER PLATE IDENTIFYING THE PANEL DESIGNATION AND CIRCUIT NUMBER FROM WHICH THEY ARE FED.
7. ALL EQUIPMENT SHALL BE "UL" LISTED.
8. ELECTRICAL SYSTEMS SHALL BE GROUNDED PER ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
9. ALL CONNECTIONS TO DEVICES SHALL BE TAPED WITH SCOTCH 33 ELECTRICAL TAPE.
10. ALL CONDUITS AND JUNCTION BOXES SHALL BE CONCEALED IN FINISHED AREAS. PRIOR TO CONCEALMENT OF NEW CONSTRUCTION, ALL WORK BEHIND FINISHED SURFACES SHALL BE INSPECTED BY THE OWNER'S REPRESENTATIVE.
11. CONTRACTOR SHALL INFORM THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION AND PRIOR TO COMPLETION OF CONSTRUCTION TO ALLOW SUFFICIENT TIME FOR COORDINATION OF EXISTING BUILDING ACTIVITIES WITH THE CONSTRUCTION WORK.
12. CONTROL WIRING SHALL BE TAGGED AT EACH END AND TERMINATED WHERE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH EQUIPMENT MANUFACTURES SPECIFICATIONS.
13. IF MATERIAL OR EQUIPMENT IS INSTALLED BEFORE IT IS APPROVED, THE CONTRACTOR SHALL BE LIABLE FOR ITS REMOVAL AND REPLACEMENT AT NO ADDITIONAL CHARGE OR IF IN THE OPINION OF ACTION TARGET, THE MATERIAL OR EQUIPMENT DOES NOT MEET THE INTENT OF THE DRAWINGS AND SPECIFICATIONS.
14. THE CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST, ANY LABOR, MATERIALS, SERVICES, APPARATUS, AND DRAWINGS IN ADDITION TO CONTRACT DOCUMENTS, IN ORDER TO COMPLY WITH ALL APPLICABLE LAWS, INDICATED AND/OR SPECIFIED. PROVIDE ALL ELECTRICAL EQUIPMENT WITH ALL NECESSARY ASSOCIATED ACCESSORIES AND CONDUIT INFRASTRUCTURE AS REQUIRED TO ENSURE A COMPLETE AND OPERATIONAL SYSTEM AT NO ADDITIONAL COST TO OWNER.
15. BEFORE SUBMITTING BIDS, THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE ALL ADJOINING EXISTING BUILDINGS, EQUIPMENT, AND SPACE CONDITIONS ON WHICH HIS WORK IS IN ANY WAY DEPENDANT FOR THE BEST WORKMANSHIP AND OPERATION ACCORDING TO THE INTENT OF THE SPECIFICATIONS AND DRAWINGS. HE SHALL REPORT TO ACTION TARGET ANY CONDITION WHICH MIGHT PREVENT HIM FROM INSTALLING HIS COMPONENTS IN THE MANNER SPECIFIED OR AS SHOWN IN CONTRACT DOCUMENTS TEN BUSINESS DAYS PRIOR TO SUBMISSION OF BIDS. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO VISIT THE SITE, NOR FOR ANY ALLEGED MISUNDERSTANDING OF MATERIALS TO BE FURNISHED OR WORK TO BE PERFORMED. THE CONTRACTOR SHALL INCLUDE IN HIS BID PRICE ALL LABOR AND MATERIAL THAT MAY EFFECT HIS WORK.
16. THE CONTRACTOR SHALL NOTIFY ACTION TARGET IN WRITING OF ANY DISCOVERED CONFLICTS BETWEEN EXISTING INSTALLATIONS WHICH ARE NOT SCHEDULED FOR DEMOLITION AND THE NEW WORK INDICATED WITHIN THE CONTRACT DOCUMENTS. SUCH NOTIFICATION SHALL BE ACCOMPANIED BY A DRAWING DELINEATING THE PROPOSED SOLUTION PRIOR TO STARTING ANY WORK IN THE AFFECTED AREA.
17. ALL MATERIALS AND WORK SHALL BE ACCORDING TO BASE BUILDING SPECIFICATIONS UNLESS OTHERWISE NOTED.
18. REFER TO ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION, ELEVATION, MOUNTING HEIGHTS AND DETAILS OF ALL LIGHT FIXTURES AND DEVICES. REPORT ANY DISCREPANCIES TO ACTION TARGET IMMEDIATELY.
19. VERIFY DOOR SWINGS BEFORE INSTALLING SENSORS AND LIGHT SWITCHES.
20. PROVIDE PLASTER RING WITH PULL STRING TO SPACE ABOVE SUSPENDED CEILING FOR ALL TELEPHONE, DATA, FAX, MODEM, CATV, CARD READER, ETC. OUTLETS INSTALLED IN HOLLOW PARTITIONS. PROVIDE 3/4" EMPTY CONDUIT AND PULL STRING TO SPACE ABOVE SUSPENDED CEILING FOR THESE OUTLETS INSTALLED IN AN INSULATED PARTITION. PROVIDE 1" E.C. WITH 2 STRINGS FOR COMBINATION DATA/TEL OUTLET.
21. MAINTAIN INTEGRITY OF THE FIRE RATED CONSTRUCTION WHERE CONDUITS PASS THROUGH WALLS AND FLOORS.
22. ALL BACK BOXES INSTALLED ON OPPOSITE SIDES OF THE SAME PARTITION SHALL BE STAGGERED. DO NOT MOUNT THE BACK BOXES BACK TO BACK.
23. TYPE MC CABLE MAY BE USED IN LIEU OF EMT FOR BRANCH CIRCUITS, IN DRYWALL PARTITION AND IN CEILING PLENUM WHERE IS ALLOWED BY NEC AND THE BUILDING OWNER. (MC CABLE FOR ISOLATED CIRCUIT SHALL HAVE TWO (2) SEPARATE GROUNDING CONDUCTORS).
24. CONTRACTOR'S SCOPE OF WORK INCLUDES TRACING ALL EXISTING CIRCUITS IN THE CONSTRUCTION AREA BACK TO SOURCE. IF REMOVAL OF EXISTING ELECTRICAL EQUIPMENT AFFECTS ANY EXISTING CIRCUITS, CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS, WIRING, CONDUIT, ETC. REQUIRED TO RECONNECT EXISTING-TO-REMAIN
25.ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL, PLUMBING, AND OTHER TRADES TO PROVIDE ALL EQUIPMENT ASSOCIATED WITH THEIR RESPECTIVE TRADES WITH NECESSARY WIRING AND CONDUIT INFRASTRUCTURE FOR ALL SENSORS, AND CONTROL SYSTEMS AS REQUIRED.

ELECTRICAL SYMBOL LIST:

-GENERAL ELECTRICAL SYMBOLS

- DUPLEX REC.
- L15-30 RECEPTACLE
- WP WEATHER PROOF REC.
- GROUND FAULT REC.
- \ SWITCHED REC.
- S SWITCH
- S3 3 WAY SWITCH
- J JUNCTION BOX (AS SIZED IN SCHEDULE)
- P PULL BOX (AS SIZED IN SCHEDULE)
- START AND STOP SWITCH
- 5E CAT5E JACK & WALL PLATE
- ACCESS PORT

-ELECTRICAL SCHEMATIC SYMBOLS

- 5E CAT5E JACK & WALL PLATE PROVIDED - BY OTHERS
- EQUIPMENT PROVIDED - BY ACTION TARGET
- EQUIPMENT PROVIDED - BY OTHERS
- AP ACCESS PORT PROVIDED - BY ACTION TARGET
- CONDUIT/CONTROLS PROVIDED - BY OTHERS
- SPKR SPEAKER PROVIDED -BY ACTION TARGET
- C0 CONDUIT PROVIDED - BY OTHERS
- MICROPHONE PROVIDED -BY ACTION TARGET

ELECTRICAL ABBREVIATIONS

(ALL ABBREVIATIONS MAY NOT APPEAR ON THE DRAWINGS)

AMP	AMPERE
AFF	ABOVE FINISHED FLOOR
AWG	AMERICAN WIRE GAUGE
BRK	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CP	CONDENSATE PUMP
D	EXISTING TO BE DEMOLISHED
DISCSW	DISCONNECT SWITCH
DP	DISTRIBUTION PANEL
DWG	DRAWING
E, EX	EXISTING TO REMAIN
EG	EQUIPMENT GROUND
EM	DEVICE ON EMERGENCY CIRCUIT
EMT	ELECTRICAL METALLIC TUBING
EW	EMERGENCY WHITE (NIGHT) LIGHT
EWH	ELECTRIC WATER HEATER
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FLA	FULL LOAD AMPS
G, GND	GROUND
GFI	GROUND FAULT INTERRUPTER
HP	HORSE POWER
IG	INTERRUPTER ISOLATED GROUND
KVA	KILOVOLT-AMPS
KW	KILOWATT
MCB	MAIN CIRCUIT BREAKER
MD	MOTORIZED DAMPER
MLO	MAIN LUGS ONLY
MDP	MAIN DISTRIBUTION PANEL
N	NEW
NEC	NATIONAL ELECTRICAL CODE
NF	NON FUSED
N/L	NIGHT LIGHT FIXTURE ON A TIMER
NTS	NOT TO SCALE
P	POLE
PH, Ø	PHASE
PNL	PANEL
PSRH	PROJECT STANDARD RECEPTACLE HEIGHT
PSSH	PROJECT STANDARD SWITCH HEIGHT
R	RELOCATED AT NEW LOCATION
RR	REMOVE AND RELOCATE
S.N.	SOLID NEUTRAL
SM	MOTOR THERMAL SWITCH CONTROL
SWBD	SWITCHBOARD
TEL	TELEPHONE
T, XFMR	TRANSFORMER
TYP	TYPICAL
U.H.	UNIT HEATER
U.O.A.	UNLESS OTHERWISE NOTED
V	VOLTS
W	WATTS
WP	WEATHERPROOF

ELECTRICAL COORDINATION NOTES:

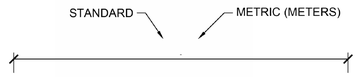
-GENERAL
1. ALL ELECTRICAL EQUIPMENT INSTALLATIONS, INCLUDING DEVICES, MATERIALS, AND WORKMANSHIP:
- SHALL BE PERFORMED BY A QUALIFIED PERSON.
- SHALL FULLY COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC).
- SHALL FULLY COMPLY WITH ALL REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ)."
2. ALL CONDUIT, J BOXES, SITE PREPARATIONS, AND HIGH VOLTAGE COMPONENTS SHALL BE PROVIDED BY THE CUSTOMER OR ELECTRICAL CONTRACTOR UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS.
3. ALL COMPONENTS ASSOCIATED WITH SYSTEMS AND EQUIPMENT TO BE REMOVED OR RELOCATED MAY NOT BE SPECIFICALLY INDICATED. REMOVE ALL ASSOCIATED ELECTRICAL COMPONENTS, HANGERS, WIRING, CABLING, CONDUIT, BOXES, DEVICES AND ALL OTHER ITEMS RELATED TO EQUIPMENT AND MATERIALS WHICH ARE INDICATED TO BE REMOVED OR RELOCATED. REMOVE ALL WIRING/CONDUIT BACK TO THE SOURCE IN EXISTING CIRCUITS WHICH ARE BEING DEMOLISHED. UNLESS SPECIFICALLY INDICATED, NO EQUIPMENT, MATERIALS OR ASSOCIATED COMPONENTS SHALL BE ABANDONED IN PLACE.

-DISPOSAL OF DEMOLITION
1. CONTRACTOR SHALL CLEAN THE PROJECT SITE AT THE END OF EACH WORKING DAY. CONTRACTOR SHALL NOTIFY BUILDING OWNER PRIOR TO DISPOSAL OF ALL DEMOLISHED MATERIALS TO ALLOW THE OWNER TO SALVAGE ANY USABLE MATERIALS. AFTER INSPECTING FROM THE OWNER'S REPRESENTATIVE ALL UNUSED MATERIALS SHALL BE REMOVED FROM THE JOB SITE WITH DISPOSAL IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS AND REGULATIONS.

-PROTECTION
1. PROTECT FROM DAMAGE ALL EXISTING WORK TO REMAIN. ANY EXISTING TO REMAIN OR EXISTING TO BE RELOCATED MATERIALS AND EQUIPMENT DAMAGED DURING THE COURSE OF THE WORK SHALL BE REPLACED WITH MATERIALS AND EQUIPMENT CONFORMING TO THESE SPECIFICATIONS AT NO ADDITIONAL COST TO THE OWNER. CARE MUST TAKEN IN REMOVING ALL EXISTING MATERIALS.

DIMENSION CLARIFICATION

ALL DIMENSION LINES SHOW DEFAULT OF U.S. STANDARD UNITS, WITH METRIC UNITS AS SECONDARY INDICATED BY THERE LOCATION BETWEEN THE FOLLOWING SYMBOLS [ ] SEE EXAMPLE BELOW FOR CLARIFICATION:



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PROJECT STATUS

90% SUBMITTAL
NOT FOR CONSTRUCTION

PROJECT NAME

RIVIERA BEACH PD

Project Manager:	BRIAN SANDERS
Territory Manager:	AARON LUDWIG
Project Engineer:	ROB DECOSTA
Drawn By:	JA
Approved By:	JAMIE HADERLIE
Origination Date:	06/23/25

No	BY	REVISION	DATE
1	JA	UPDATE BACKGROUNDS	09/11/25

SHEET NAME

GENERAL ELECTRICAL NOTES

DRAWING NUMBER

6342

SHEET NUMBER

Z700

SCALED FOR ORIGINAL DRAWING AT 22" X 34"

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

ARCHITECT OF RECORD

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1678 Kingston Road
Longwood, FL
32750

REGISTRATION

STATE OF FLORIDA — JOHNNIE LOHRUM — AR 95098 — REGISTERED ARCHITECT

DRAWING HISTORY

No.	DATE	DESCRIPTION

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS / PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPD EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
2125 AVENUE S,
RIVIERA BEACH, FL
33404

PROJECT NUMBER
1007657.00

SHEET TITLE
FIRING RANGE EQUIPMENT DRAWINGS

SHEET NUMBER
Q1.17E

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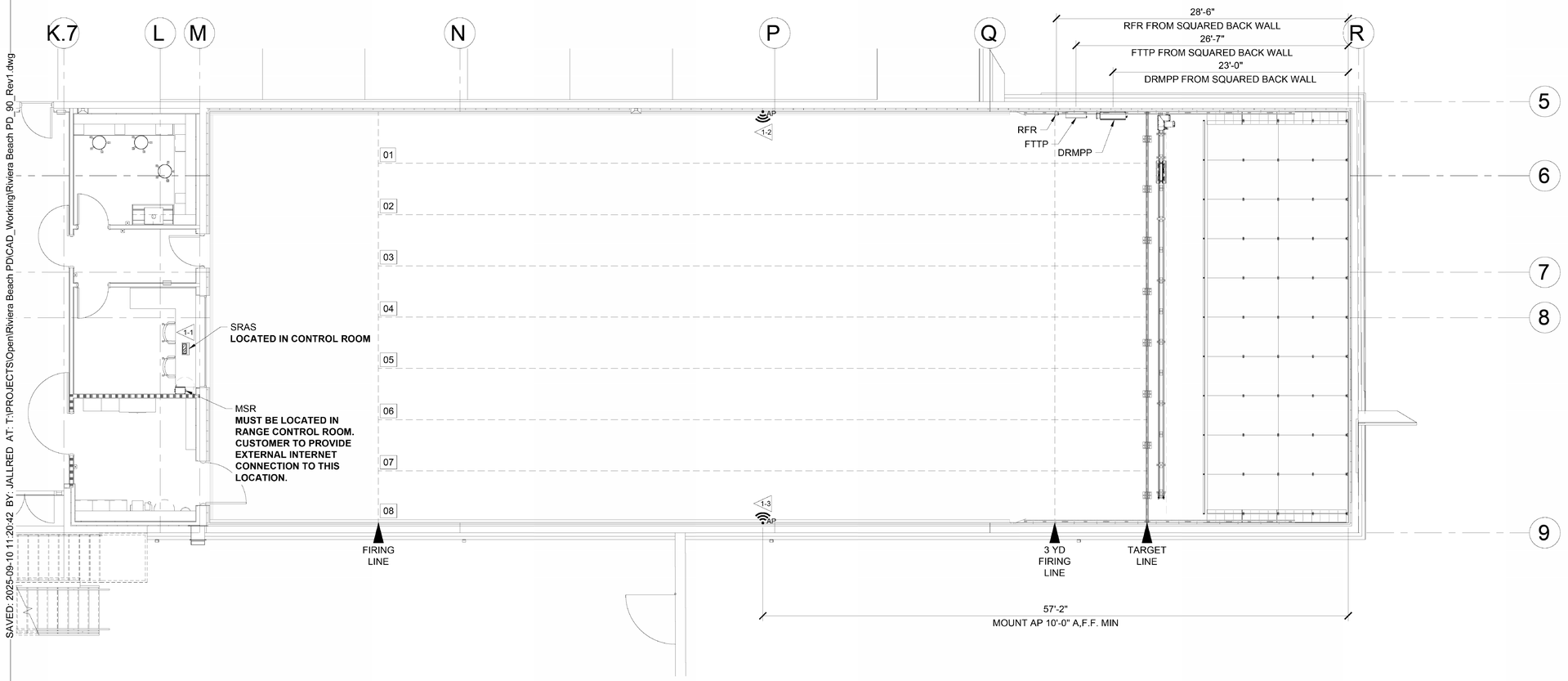

1 Z701 ELECTRICAL PLAN
SCALE 3/16" = 1'-0"

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PROJECT NAME
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Project Manager:	BRIAN SANDERS
Territory Manager:	AARON LUDWIG
Project Engineer:	ROB DECOSTA
Drawn By:	JA
Approved By:	JAMIE HADERLIE
Origination Date:	06/23/25

No	BY	REVISION	DATE
1	JA	UPDATE BACKGROUNDS	09/11/25

SHEET NAME
ELECTRICAL PLAN

DRAWING NUMBER
6342

SHEET NUMBER
Z701

SCALED FOR ORIGINAL DRAWING AT 22" X 34"

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REGISTRATION
STATE OF FLORIDA
JOHNNIE LOHRUM JR.
AR 96099
REGISTERED ARCHITECT

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PROJECT LOCATION
2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
FIRING RANGE EQUIPMENT DRAWINGS

SHEET NUMBER
Q1.18E

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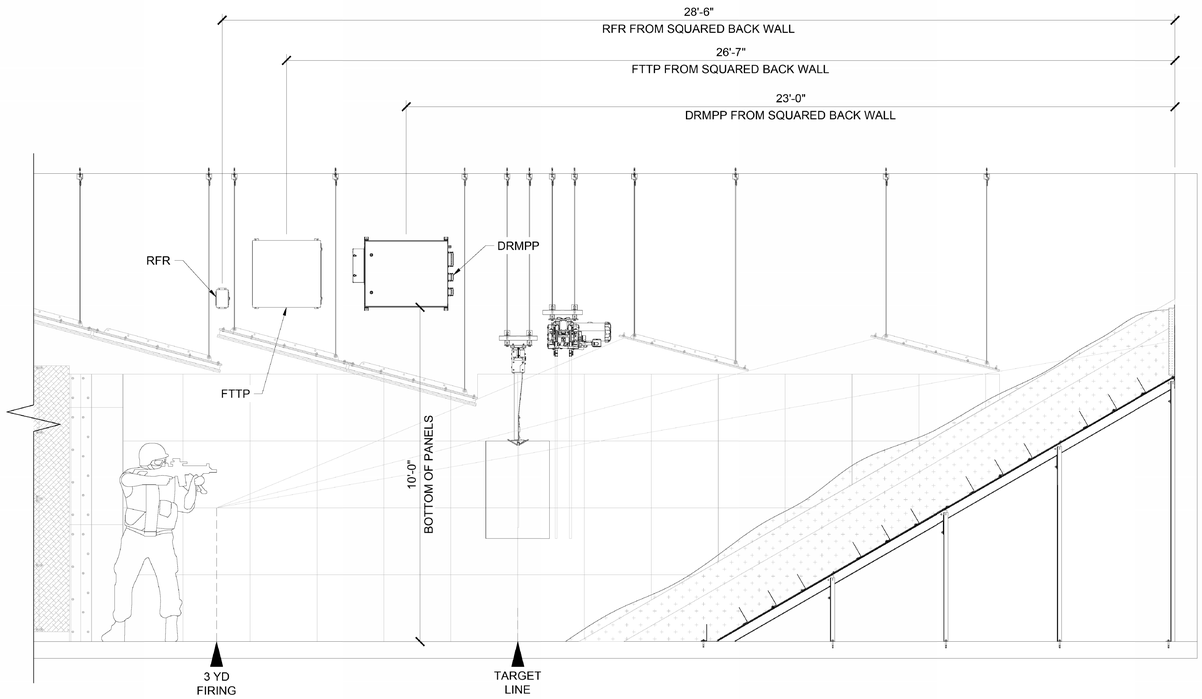
NOTE:
SPACE BELOW STRUCTURAL MEMBER SHALL BE FREE OF OBSTRUCTIONS UNLESS COORDINATED WITH ACTION TARGET.



3 / Z702 ELECTRICAL SECTION
SCALE - 1/2" = 1'-0"

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Project Manager:	BRIAN SANDERS
Territory Manager:	AARON LUDWIG
Project Engineer:	ROB DECOSTA
Drawn By:	JA
Approved By:	JAMIE HADERLIE
Origination Date:	06/23/25

No	BY	REVISION	DATE
1	JA	UPDATE BACKGROUNDS	09/11/25

SHEET NAME
ELECTRICAL SECTION

DRAWING NUMBER
6342

SHEET NUMBER
Z702

SCALED FOR ORIGINAL DRAWING AT 22" X 34"

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REGISTRATION
STATE OF FLORIDA
JOHNNIE LOHRUM JR.
AR 96099
REGISTERED ARCHITECT

DRAWING HISTORY

No.	DATE	DESCRIPTION

CONSULTANT

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DATE OF ISSUE
10/14/2025

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RBPD EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
FIRING RANGE EQUIPMENT DRAWINGS

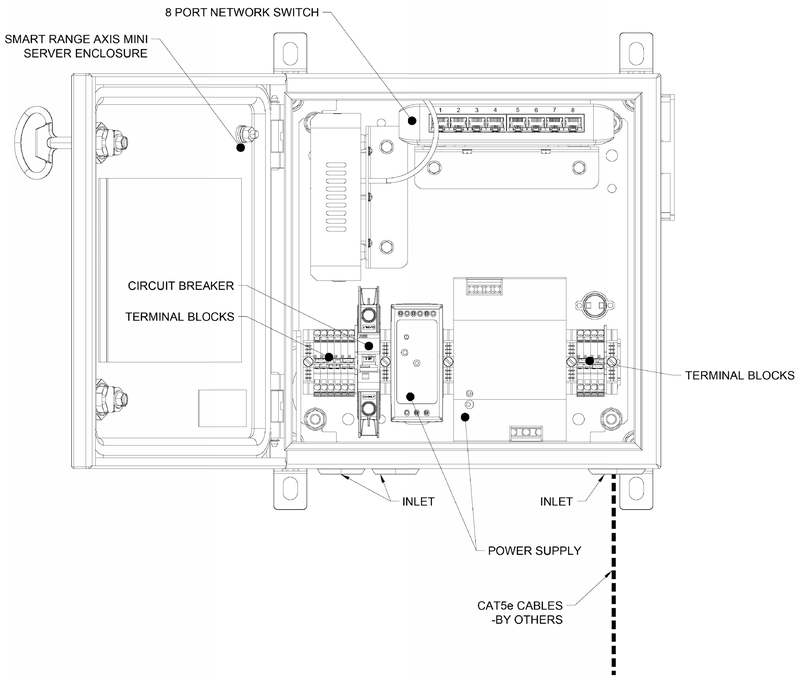
SHEET NUMBER
Q1.19E

NOT FOR CONSTRUCTION

NOTE:
- SEE ELECTRICAL SCHEMATIC FOR ELECTRICAL SCHEDULES & TABLES
- ALL CAT5e CABLE RUNS ARE LIMITED TO 300'-0"
- SERVER RACK TO BE LOCATED IN A CONDITIONED LOCATION
- CUSTOMER TO PROVIDE WIRED INTERNET ACCESS TO SERVER RACK LOCATION
- ANY WIRE/CABLE RUNS DOWNRANGE OF FIRING LINE SHALL BE RUN IN A CONDUIT
- ALL DATA JACKS AND ASSOCIATED WIRING TO BE INSTALLED BY SITE ELECTRICIAN
- ALL PATCH PANEL TERMINATIONS TO MATCH PATCH PANEL TERMINATION SCHEDULE.
- PORT NUMBER TO MATCH PANEL ID NUMBER.

SWITCH 1
DATA JACK SCHEDULE

PRODUCT	LOCATION	PORT ID #
SRAS	CONTROL AREA	1
AP	RANGE RIGHT WALL	2
AP	RANGE LEFT WALL	3
DRMPP	TARGET LINE AREA	4
FTTP	TARGET LINE AREA	5
		6
		7
RESERVED FOR SWITCH		8



2 / Z703.1 SERVER RACK
SCALE - 6" = 1'-0"

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Project Manager:	BRIAN SANDERS
Territory Manager:	AARON LUDWIG
Project Engineer:	ROB DECOSTA
Drawn By:	JA
Approved By:	JAMIE HADERLIE
Origination Date:	06/23/25

No	BY	REVISION	DATE
1	JA	UPDATE BACKGROUNDS	09/11/25

SHEET NAME
SERVER RACK DETAILS

DRAWING NUMBER
6342

SHEET NUMBER
Z703.1

SCALED FOR ORIGINAL DRAWING AT 22" X 34"

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RBPD EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
FIRING RANGE EQUIPMENT DRAWINGS

SHEET NUMBER
Q1.20E

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EQUIPMENT SCHEDULE - BY ACTION TARGET

ITEM	QTY	ABBREV
ACCESS POINT	2	AP
SMART RANGE ACCESS SCREEN	1	SRAS
DRM PRO DOWNRANGE PANEL	1	DRMPP
FIXED TURNING TARGET DOWNRANGE PANEL	1	FTTP
RADIO FREQUENCY RECEIVER	1	RFR
MINI SERVER RACK	1	MSR
ROAMING TABLET	1	
DRM PRO	1	
FIXED LATERAL	8	

EQUIPMENT POWER SCHEDULE - BY OTHERS

PRODUCT LINE	ITEM	QTY	PHASE	VOLTS	FLA
CONTROL PANEL	DRMPP	1	1	200-240	20
	FTTP	1	1	100-240	16
SERVER RACK	MSR	1	1	100-240	16

DATA COMMUNICATION OUTLET - BY OTHERS

ITEM	QTY	DESCRIPTION
5E	3	CAT5E JACK & WALL PLATE

JUNCTION BOX SCHEDULE - BY OTHERS

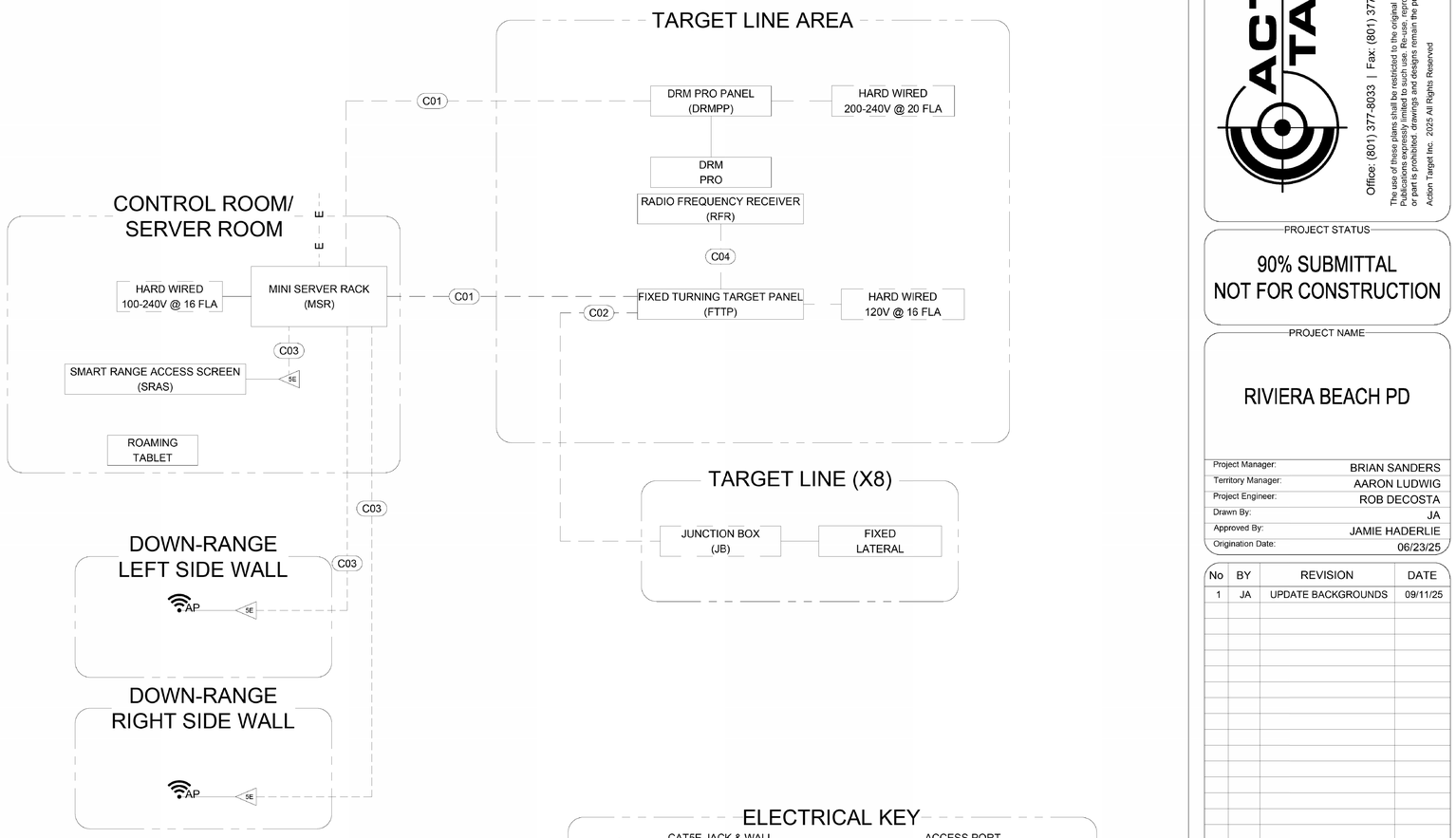
ITEM	QTY	DESCRIPTION
JB	8	JUNCTION BOX 4X4X4

CONDUIT SCHEDULE - BY OTHERS

ITEM	QTY	DESCRIPTION
C01	2	3/4" CONDUIT
C02	8	3/4" CONDUIT
C03	3	3/4" CONDUIT
C04	1	3/4" CONDUIT

CONDUIT FILL SCHEDULE - BY ACTION TARGET

ITEM	QTY	DESCRIPTION
C01		
	1	CAT5E OR GREATER < 300'
C02		
	1	18/2 GA CABLE
C03		
	1	CAT5E OR GREATER
C04		
	1	22/7 GA CABLE



ELECTRICAL KEY

- 5E — CAT5E JACK & WALL PLATE PROVIDED -BY OTHERS
- C# — CONDUIT PROVIDED -BY OTHERS
- CONDUIT/WIRES PROVIDED -BY OTHERS
- AC POWER PROVIDED -BY OTHERS
- AP — ACCESS PORT PROVIDED -BY ACTION TARGET
- RETRIEVERS/WIRES PROVIDED -BY ACTION TARGET
- E E — EXTERNAL INTERNET CONNECTION -BY OTHERS

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PROJECT STATUS

90% SUBMITTAL
NOT FOR CONSTRUCTION

PROJECT NAME

RIVIERA BEACH PD

Project Manager:	BRIAN SANDERS
Territory Manager:	AARON LUDWIG
Project Engineer:	ROB DECOSTA
Drawn By:	JA
Approved By:	JAMIE HADERLIE
Origination Date:	06/23/25

No	BY	REVISION	DATE
1	JA	UPDATE BACKGROUNDS	09/11/25

SHEET NAME

FIXED LATERAL ELECTRICAL SCHEMATIC

DRAWING NUMBER

6342

SHEET NUMBER

Z732.9

SCALED FOR ORIGINAL DRAWING AT 22" X 34"

CLIENT

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1678 Kingston Road
Longwood, FL
32750

REGISTRATION

STATE OF FLORIDA — JOHNNIE LORIUM — AR 96289 — REGISTERED ARCHITECT

DRAWING HISTORY

№	DATE	DESCRIPTION

CONSULTANT

PROJECT STATUS

90% CONSTRUCTION DOCUMENTS / PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RBPD EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION

2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER

1007657.00

SHEET TITLE

FIRING RANGE EQUIPMENT DRAWINGS

SHEET NUMBER

Q1.21E

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RIVIERA BEACH PD

SHEET INDEX:

ZM001	INDEX PAGE
ZM002	VENTILATION GENERAL NOTES
ZM003	VENTILATION SPECIFICATIONS
ZM004	VENTILATION SPECIFICATIONS
ZM101	HVAC PLAN
ZM102	PENETRATION ROOF PLAN
ZM103	VENTILATION ROOF PLAN
ZM104	CURB AND RAIL PLAN
ZM301	VENTILATION SECTION
ZM501	AIRFLOW SCHEMATIC RECIRC SYSTEM
ZM601	MECHANICAL HVAC SCHEDULES
ZM602	MECHANICAL DETAILS
ZM603	MECHANICAL DETAILS CONTINUED
ZM701	HVAC CONTROLS CONDUIT AND SENSOR ABOVE CEILING PLAN
ZM702	HVAC CONTROLS CONDUIT AND SENSOR ROOF PLAN
ZM703	HVAC CONTROLS CONDUIT SCHEMATIC
ZM704	HVAC CONTROL CONDUIT AND SENSOR SCHEDULE
ZM705	HVAC CONTROL PANEL WIRING
ZM706	SOO AND CONTROL SYSTEM OPTIONS
ZM707.1	HVAC RECIRC NETWORK DIAGRAM ETHERNET
ZM707.2	HVAC RECIRC NETWORK DIAGRAM BACNET
ZM707.3	HVAC RECIRC NETWORK DIAGRAM AAON COMM LINK

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Drawn By:	JA
Approved By:	JAMIE HADERLIE
Origination Date:	07/17/25

No	BY	REVISION	DATE
1	JA	TAKE TO 100	08/25/25

SHEET NAME

INDEX PAGE

DRAWING NUMBER

6342

SHEET NUMBER

ZM001

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GENERAL NOTES:

1. EACH DRAWING HAS SPECIFIC KEYED AND GENERAL NOTES. THE NOTES ON THIS DRAWING ARE GENERAL IN NATURE AND APPLY TO WORK DESCRIBED IN ALL THE RANGE VENTILATION DRAWINGS AND SPECIFICATIONS.
2. THE RANGE VENTILATION DUCT ROUTING SHOWN IS APPROXIMATE AND DIAGRAMMATIC AND IS NOT TO BE SCALED. MINOR ALTERATIONS ARE ALLOWED TO AVOID LOCAL INTERFERENCES. WHERE FIELD CONDITIONS REQUIRE SUBSTANTIAL CHANGES TO THE DUCT LAYOUT, CHANGES MUST BE APPROVED BY ACTION TARGET.
3. THIS PROJECT AND ALL WORK SHALL CONFORM TO ALL LOCAL AND NATIONAL CODES AND STANDARDS WHICH ARE APPLICABLE TO THIS TYPE OF WORK, SOME OF WHICH ARE AS FOLLOWS: LOCAL AND NATIONAL BUILDING AND MECHANICAL CODES, NFPA, ASHRAE, SMACNA AND OTHER REGULATORY BODIES HAVING JURISDICTION OVER THIS TYPE OF WORK. ALL SYSTEMS INCLUDING MATERIALS, EQUIPMENT AND WORKMANSHIP SHALL CONFORM TO THE ASSOCIATED CODES AND REGULATIONS OF GOVERNING BODIES, CODES AND REGULATIONS OF THE ASSOCIATED MUNICIPAL, STATE AND FEDERAL AUTHORITIES.
4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, LICENSES, AND UTILITY SERVICE AGREEMENTS RELATED TO THE INSTALLATION, COMMISSIONING, TESTING AND BALANCING FOR THE COMPLETION OF THIS WORK. THE CONTRACTOR SHALL ASSIST AND WORK WITH THE OWNER TO OBTAIN OWNER SPECIFIC PERMITS, LICENSES AND AGREEMENTS.
5. THE CONTRACTOR SHALL COORDINATE THE RANGE VENTILATION WORK WILL ALL BUILDING PLUMBING, ELECTRICAL, AND STRUCTURAL TRADES TO PROVIDE ALL THE NECESSARY UTILITY CONNECTIONS FOR THE RANGE VENTILATION EQUIPMENT. COORDINATE THIS WORK WITH ALL OTHER TRADES IN ORDER TO RESOLVE ANY CONFLICTS THAT MIGHT ARISE DUE TO THE INSTALLATION AND LOCATION OF DUCTWORK, PIPING, CONTROLS OR EQUIPMENT THAT IS TO BE INSTALLED AS PART OF THIS PROJECT.
6. THE GENERAL CONTRACTOR OR OTHER DIVISIONS WILL INSURE THAT THE RANGE ENVELOPE IS SEALED TIGHT TO MAINTAIN THE REQUIRED NEGATIVE SPACE PRESSURE AS SPECIFIED ON THE DRAWINGS AND IN THE SPECIFICATIONS.
7. ALL WALL AND ROOF PENETRATIONS FOR DUCTWORK AND OTHER RELATED OPENINGS SHALL BE COMPLETED BY THE GENERAL CONTRACTOR OR BY THE OWNER. PROVIDE ROOF CURBS FOR ALL ROOF DUCT PENETRATIONS AND FLASH WATER TIGHT.
8. THE EQUIPMENT PADS AND STRUCTURAL SUPPORTS WILL BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR OR BY THE OWNER.
9. DUCTWORK, PIPING, CONTROLS AND EQUIPMENT INCLUDING FILTER HOUSING SHALL BE INSTALLED SUCH THAT THEY CAN BE SERVICED AND REPAIRED OR REPLACED BY ANY PERSON ASSOCIATED WITH THIS PROJECT, INCLUDING THE OWNER AND THE OWNERS REPRESENTATIVE.
10. ALL DUCTWORK, SUPPLY, EXHAUST AND RETURN SHALL BE SEALED AS DESCRIBED IN THE DRAWINGS AND IN THE SPECIFICATIONS AND PER SMACNA STANDARDS.
11. ALL DUCTWORK NEEDS TO BE RATED AT A MINIMUM OF 2" WC STATIC PRESSURE. THE DUCTWORK CONNECTING TO THE RANGE EXHAUST FANS AND THE FILTER HOUSING IS RATED AT A MINIMUM OF 10" WC STATIC PRESSURE. SEE DRAWINGS AND SPECIFICATIONS AND SMACNA STANDARDS FOR THE CONSTRUCTION AND INSTALLATION OF ALL DUCTWORK.
12. ALL DUCTWORK SIZES ARE INSIDE CLEAR DIMENSIONS. IF INSULATION LINING IS NOTED THE DUCTWORK SHALL BE INCREASED IN SIZE TO ALLOW FOR THE INSULATION.
13. ALL DUCTWORK ELBOWS SHALL BE RADIUS ELBOWS UNLESS NOTED OTHERWISE. WHERE SQUARE ELBOWS ARE SHOWN THEY SHALL HAVE SINGLE BLADE TURNING VANES. ROUTE ALL DUCTWORK AS HIGH AS POSSIBLE ABOVE BALLISTIC BAFFLES. COORDINATE DUCT INSTALL WITH CEILING SUPPORT SYSTEM. DUCTWORK SIZE CHANGES ARE ALLOWED AS LONG AS THE FREE AREA IS NOT REDUCED. SUBMIT COORDINATED SHEET METAL SHOP DRAWINGS FOR APPROVAL BEFORE FABRICATION OF DUCTWORK SYSTEMS. SHOP DRAWINGS SHALL BE APPROVED BY ACTION TARGET INC (ATI). ALL OFF- SETS, RISERS OR DROPS ARE TO BE INDICATED ON THE SHOP DRAWINGS.
14. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT AND WIRING FROM THE POWER SOURCES TO THE EQUIPMENT DISCONNECT AND FROM THE DISCONNECT SWITCHES TO STARTERS AND FROM STARTERS TO THE EQUIPMENT.
15. ALL HIGH VOLTAGE CONDUITS AND WIRING SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
16. ALL LOW VOLTAGE CONDUITS AND WIRING SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
17. AUTOMATIC CONTROL DEVICES, SUCH AS TEMPERATURE SENSORS, RELAYS AND PRESSURE SWITCHES WHICH ARE ASSOCIATED WITH THIS WORK AND THESE SYSTEMS AND SHALL BE FURNISHED AND INSTALLED BY THIS DIVISION.
18. ALL CONTROL WIRING SHALL BE RUN CONCEALED WHEN POSSIBLE. WIRING IN WALLS SHALL BE IN CONDUIT. ALL CONTROL WIRING SHALL BE PLENUM RATED. CONTROL WIRING IN EXPOSED AREAS SHALL BE RUN IN CONDUIT. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODES AND ANY OTHER LOCAL OR STATE CODES.
19. FIELD VERIFY LOCATIONS OF ALL RANGE MECHANICAL EQUIPMENT, ROOF PENETRATIONS, AND DEVICES PRIOR TO FABRICATION OR STARTING NEW WORK. MECHANICAL CONTRACTOR SHALL COORDINATE WITH OWNERS GENERAL CONTRACTOR AND STRUCTURAL ENGINEER ALL SUPPORTING STEEL FOR MECHANICAL EQUIPMENT. GENERAL CONTRACTOR TO FURNISH AND INSTALL SUPPORT ANGLES AND SUPPORT BEAMS FOR MECHANICAL EQUIPMENT.
20. THE CONTRACTOR SHALL INSTALL THE RANGE MECHANICAL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION GUIDELINES AND STANDARDS. MAINTAIN THE MANUFACTURER'S OPERATIONAL AND SERVICE CLEARANCES AROUND EQUIPMENT.
21. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE DESIGN, SELECTION, PROVISION, AND INSTALLATION OF ALL SUPPORTS, ANCHORAGE, AND RELATED HARDWARE FOR HVAC EQUIPMENT AND DUCTWORK. ALL SUPPORTS SHALL BE DESIGNED AND INSTALLED TO SAFELY RESIST THE SEISMIC AND WIND LOADS REQUIRED BY APPLICABLE NATIONAL AND LOCAL BUILDING CODES, STANDARDS, AND REGULATIONS. THE CONTRACTOR SHALL ENSURE THAT ALL METHODS AND MATERIALS USED ARE ADEQUATE FOR THE INTENDED APPLICATION AND IN FULL COMPLIANCE WITH GOVERNING REQUIREMENTS.
22. ALL RANGE MECHANICAL SYSTEMS SHALL BE TESTED, COMMISSIONED AND SHALL BE COMPLETE AND FUNCTIONAL AT THE COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL WARRANTY HIS WORK FOR A PERIOD OF TWELVE (12) MONTHS FROM DATE OF FINAL ACCEPTANCE.
23. THIS WORK SHALL INCLUDE ALL THE PRODUCTS AND EQUIPMENT FOR COMPLETE AND FUNCTIONAL SYSTEMS FOR THE AREAS INDICTED IN THESE DOCUMENTS.

ATTENTION:

- THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE PROVIDED TO SHOW GENERAL INTENT OF THE VENTILATION EQUIPMENT AND DUCT LAYOUT.
- ACTUAL EQUIPMENT AND DUCT SIZE WILL BE DETERMINED DURING DETAILED DESIGN AND MAY VARY FROM THE SIZES SHOWN ON THESE DRAWINGS.
- ACTION TARGET'S DESIGNERS/ENGINEERS WILL NEED TO COORDINATE WITH THE CUSTOMER'S STRUCTURAL ENGINEER, ARCHITECT, AND CONTRACTOR THE LAYOUT OF THE VENTILATION SYSTEM AND SCOPE OF WORK.
- PROVIDE ACTION TARGET WITH BUILDING DRAWINGS OF THE RANGE SPACE. PLANS AND SECTION VIEWS IN AUTOCAD FORMAT. *(PDF FILES OR HAND SKETCHES ARE REQUIRED WHEN AUTOCAD FILES ARE NOT AVAILABLE.)*
- ACTION TARGET ROUTES VENTILATION DUCTING BETWEEN THE STEEL BAFFLES AND THE BOTTOM OF THE RANGE CEILING STRUCTURE.
- THE MINIMUM CLEAR DISTANCE FROM THE FLOOR TO THE BOTTOM OF THE RANGE ROOF STRUCTURAL MEMBERS (TRUSSES, ETC.) IS 14'-0".

REQUIRED INFORMATION:

OWNER/CONTRACTOR TO PROVIDE
- COMPLETE ACTION TARGET HVAC SURVEY WITH SALES ASSOCIATE AND/OR PROJECT MANAGER.
- ALL PERMITS AND LICENSES PERTAINING TO PROJECT.

STRUCTURAL
- STRUCTURAL SUPPORT OF MECHANICAL VENTILATION EQUIPMENT.
- CONCRETE EQUIPMENT PADS FOR MECHANICAL VENTILATION EQUIPMENT, IF APPLICABLE.
- WALL PENETRATIONS FOR VENTILATION DUCTING
- ROOF PENETRATIONS, PATCHING, AND ROOFING AROUND DUCT ROOF CURBING AND EQUIPMENT SUPPORTS OF MECHANICAL EQUIPMENT. FLASH AND WATER TIGHT SEAL.

ELECTRICAL
- MATERIAL AND INSTALL OF HIGH AND LOW VOLTAGE WIRE AND CONDUIT FOR VENTILATION EQUIPMENT.
- ELECTRICAL DISCONNECTS FOR MECHANICAL EQUIPMENT.
- DEDICATED 120V CIRCUIT TO VENTILATION CONTROL PANEL.
- INSTALLATION OF ATI PROVIDED VFD'S AND CONTROL/RANGE DISPLAY PANELS.
- INTERNET STATIC IP ADDRESS FOR REMOTE CONTROL ACCESS. CAT5 CABLE TO RANGE CONTROL PANEL.

MECHANICAL
- ALL GAS PIPE (SIZED FOR MECHANICAL EQUIPMENT), REGULATORS & FINAL CONNECTIONS AND HOOKUPS FOR RANGE MECHANICAL EQUIPMENT.

MISCELLANEOUS
- PROVIDE AN AIR TIGHT RANGE ENVELOPE. SEAL ALL HOLES, PENETRATIONS, DOORWAYS, DOOR JAMS, AND OPENINGS IN RANGE WALLS, WALL TO ROOF CONNECTIONS, AND ALL ROOF OPENINGS.
- T-BAR CEILING BETWEEN SAFETY CEILING AND RANGE DIFFUSERS.
- ANY FIRE/SMOKE DEVICES REQUIRED BY LOCAL JURISDICTION.

NOTE: THIS LIST IS PROVIDED TO IDENTIFY AND COORDINATE THE SCOPE OF WORK FOR THE RANGE VENTILATION SYSTEM. A COMPLETE AND DETAILED LIST WILL BE PROVIDED UPON CONTRACT.

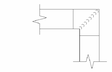
SYMBOLS:

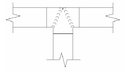
NOT ALL SYMBOLS ARE SHOWN ON THESE DRAWINGS



DUCT-(SIZE VARIES)
FIRST FIGURE = SIDE SHOWN
SECOND FIGURE = SIDE NOT SHOWN


DIRECTION OF FLOW IN DUCT


ELBOW WITH TURNING VANES


TEE WITH TURNING VANES


DAMPER


RECTANGULAR RETURN DUCT
TURNING DOWN


RECTANGULAR RETURN DUCT
TURNING UP


RECTANGULAR SUPPLY DUCT
TURNING DOWN


RECTANGULAR SUPPLY DUCT
TURNING UP


RECTANGULAR EXHAUST DUCT
TURNING UP


RECTANGULAR EXHAUST DUCT
TURNING DOWN


RETURN OR EXHAUST DUCT TAP
FROM BOTTOM OF DUCT


ROUND DUCT TURNING DOWN


ROUND DUCT TURNING UP


RETURN, SUPPLY, OR EXHAUST
BRANCH DUCT IN SIDE OF DUCT
W/VOLUME DAMPER



SMOKE DAMPER



DUCT SMOKE DETECTOR



DIFFERENTIAL PRESSURE SENSOR



DIFFERENTIAL PRESSURE
TRANSMITTER



SUPPLY OR VENTILATING DIFFUSER
W/CFM AND FIXTURE TYPE SHOWN



RETURN OR EXHAUST DUCT
W/CFM AND FIXTURE TYPE SHOWN



RETURN/EXHAUST AIR

RETURN
(Block sz = 12" sq.; Scale up for 24" sq.)


EXHAUST FAN
(Block sz = 12" sq.; Scale up for 24" sq.)


EXHAUST GRILLE
(Block sz = 12" sq.; Scale up for 24" sq.)

ABBREVIATIONS:

ABBREVIATED	UN-ABBREVIATED
AFF	ABOVE FINISHED FLOOR
AD	ACCESS DOOR
ALT	ALTERNATE
BOD	BOTTOM OF DUCT
BTU/H	BRITISH THERMAL UNITS PER HOUR
CFM	CUBIC FEET PER MINUTE
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ESP	EXTERNAL STATIC PRESSURE
FPM	FEET PER MINUTE
FT	FEET
FV	FACE VELOCITY
GA	GUAGE
HP	HORSEPOWER
HR	HOUR
HT	HEIGHT
IN	INCH
INWC	INCHES OF WATER COLUMN
INWG	INCHES OF WATER GUAGE
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
MAU	MAKE-UP AIR UNIT
MBH	THOUSAND BTU/H
MECH	MECHANICAL
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
PH	PHASE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
RA	RETURN AIR
RAD	RADIUS
RH	RELATIVE HUMIDITY
SA	SUPPLY AIR
SEN	SENSIBLE
SP	STATIC PRESSURE
SQ FT	SQUARE FEET
TOD	TOP OF DUCT
TSP	TOTAL STATIC PRESSURE
TYP.	TYPICAL
VFD	VARIABLE FREQUENCY DRIVE
V	VELOCITY
WB	WET BULB

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PROJECT STATUS
100% SUBMITTAL

PROJECT NAME
RIVIERA BEACH PD

Project Manager:	BRIAN SANDERS
Territory Manager:	AARON LUDWIG
Project Engineer:	ROB DECOSTA
Drawn By:	JA
Approved By:	JAMIE HADERLIE
Origination Date:	07/17/25

No	BY	REVISION	DATE
1	JA	TAKE TO 100	08/25/25

SHEET NAME
VENTILATION GENERAL NOTES

DRAWING NUMBER
6342

SHEET NUMBER
ZM002

SCALED FOR ORIGINAL DRAWING AT 22" X 34"

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STATE OF FLORIDA · LONNIE LONDRUM · AR 96289 · REGISTERED ARCHITECT

DRAWING HISTORY

No.	DATE	DESCRIPTION

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS / PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPD EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
FIRING RANGE EQUIPMENT DRAWINGS

SHEET NUMBER
Q1.23E

SAVED: 2025-08-27 14:01:39 BY: JALLRED AT: T:\PROJECTS\Open\Riviera Beach PD\CAD_Working\HVAC\Riviera Beach PD_HVAC_100_Rev1.dwg
FILE NAME: Autodesk Docs// 1007657.00 - CORE - City of Riviera Beach D/1007657 - RBPD_Evidence_&_Fire_Range_Building.rvt
DATE STAMP: 10/23/2025 5:43:39 PM

SPECIFICATIONS:

SECTION 23000 GENERAL REQUIREMENTS.

1. THIS WORK SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FIXTURES, AND DEVICES FOR THE ENTIRE MECHANICAL WORK AND A COMPLETE OPERATING AND TESTED INSTALLATION AS REQUIRED FOR THIS PROJECT.
2. ALL WORK SHALL BE EXECUTED IN ACCORDANCE WITH ALL LOCAL AND STATE RULES AND REGULATIONS APPLICABLE TO THE TRADE AFFECTED. AFTER ENTERING INTO THIS CONTRACT, THE CONTRACTOR WILL COMPLETE ALL WORK NECESSARY TO MEET THESE REQUIREMENTS WITHOUT EXTRA EXPENSES TO THE OWNER.
3. APPLICABLE CODES SHALL BE THE LATEST EDITION OF IBC, IMC, IPC, AND IFC. INDUSTRY STANDARDS SHALL BE AS FOLLOWS: ARI, ADC, AMCA, AGA, ANSI, ASHRAE, ASME, ASTM, AWWA, ETL, IEEE, NFPA, NEC, NEMA, NESC OSHA, SMACNA, AND UL.
4. THE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS TO PERFORM THIS WORK.
5. SHOP DRAWINGS AND COORDINATION DRAWING SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER AND ATI FOR REVIEW AND MUST BE COORDINATE WITH ALL OTHER TRADES. SHOP DRAWINGS SHALL INCLUDED PLANS, ELEVATIONS, SECTIONS AND INDICATE PRESSURE CLASS. DRAWINGS SHALL ALSO INCLUDE FITTINGS, REINFORCING AND SPACING, SEAM AND JOINT CONSTRUCTION DETAILS. PENETRATIONS THROUGH PARTITIONS AND FIRE-RATE WALLS SHALL BE INDICATED. HANGERS AND SUPPORTS WITH BUILDING ATTACHMENT AS WELL AS VIBRATION ISOLATION SHALL ALSO BE INCLUDED. SHEETMETAL SHOP DRAWINGS WILL BE REQUIRED FOR ALL DUCTWORK IN THE ENTIRE BUILDING. THESE DRAWINGS SHALL BE COORDINATED WITH ALL PIPING, CONDUIT, VALVES, EQUIPMENT AND DUCTWORK.
6. THE CONTRACT DRAWINGS SHOW THE GENERAL DESIGN ARRANGEMENTS AND THE EXTENT OF THE SYSTEMS. THE DRAWINGS MAY INCLUDE DETAILS THAT SHOW MORE NEARLY EXACT LOCATIONS AND ARRANGEMENTS; HOWEVER, THE LOCATIONS ARE SHOWN DIAGRAMMATICALLY, AND ARE TO BE REGARDED AS GENERAL. IT SHALL BE THE WORK OF THIS CONTRACTOR TO MAKE SUCH SLIGHT ALTERATIONS AS MAY BE NECESSARY TO MAKE COMPONENTS AND SYSTEMS FIT. THE DRAWINGS SHALL NOT BE SCALED FOR ROUGHING IN MEASUREMENTS NOR SHALL THEY BE USED AS SHOP DRAWINGS.
7. EXISTING CONDITIONS SHALL BE CAREFULLY EXAMINED BY THIS CONTRACTOR. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING SERVICES AND UNDERSTAND THE STRUCTURAL AND ELECTRICAL DRAWINGS AND REQUIREMENTS NEEDED TO COMPLETE THIS WORK.
8. THE EQUIPMENT CAPACITIES SHOWN FOR THE EQUIPMENT IS THE MINIMUM ACCEPTABLE. ALL EQUIPMENT SUBMITTALS SHALL GIVE THE SPECIFIED CAPACITY AND PERFORMANCE AT THE GIVEN JOB-SITE ELEVATION.
9. ALL EQUIPMENT SHALL BE FURNISHED AND INSTALLED STRUCTURALLY ADEQUATE TO WITHSTAND THE SEISMIC FORCES AS OUTLINED IN THE INTERNATIONAL BUILDING CODE AND THE SMACNA GUIDELINES FOR THE AREA WHICH THIS PROJECT IS BEING CONSTRUCTED.
10. THE CONTRACTOR SHALL REFER TO OTHER DRAWINGS AND PARTS OF THIS SPECIFICATION THAT COVER WORK OF OTHER TRADES THAT IS CARRIED ON IN CONJUNCTION WITH THE MECHANICAL WORK SUCH THAT ALL WORK CAN PROCEED WITHOUT INTERFERENCE RESULTING FROM LACK OF COORDINATION. THE CEILING CAVITY MUST BE CAREFULLY REVIEWED AND COORDINATED WITH ALL TRADES. THIS CONTRACTOR SHALL INSURE THAT THE INSTALLATION OF ALL DUCTWORK, PIPING AND EQUIPMENT IS IN COMPLIANCE WITH ARTICLES 110-16 AND 384-4 OF THE NATIONAL ELECTRICAL CODE RELATIVE TO PROPER CLEARANCES IN FRONT OF AND OVER ALL ELECTRICAL PANELS AND EQUIPMENT. NO PIPING OR DUCTWORK SHALL BE ALLOWED TO RUN OVER ELECTRICAL PANELS.
11. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF A SATISFACTORY PIECE OF WORK IN ACCORDANCE WITH THE TRUE INTENT OF THE DRAWINGS AND SPECIFICATIONS. HE SHALL PROVIDE AS A PART OF HIS WORK AND WITHOUT EXPENSE, ALL INCIDENTAL ITEMS REQUIRED EVEN THOUGH THESE ITEMS ARE NOT PARTICULARLY SPECIFIED OR INDICATED. THE INSTALLATION SHALL BE MADE SO THAT SEVERAL COMPONENT PARTS WILL FUNCTION TOGETHER AS A WORKABLE SYSTEM AND SHALL BE LEFT WITH ALL EQUIPMENT PROPERLY ADJUSTED AND IN WORKING ORDER. THE CONTRACTOR SHALL FAMILIARIZE THE OWNER'S REPRESENTATIVE WITH MAINTENANCE AND LUBRICATION INSTRUCTIONS AS PREPARED BY THE CONTRACTOR AND SHALL EXPLAIN AND FULLY INSTRUCT HIM RELATIVE TO OPERATING, SERVICING, AND MAINTENANCE OF EACH ITEM.
12. WORKMANSHIP SHALL BE THE BEST QUALITY OF ITS KIND FOR THE RESPECTIVE INDUSTRIES, TRADE, CRAFTS, AND PRACTICES, AND SHALL BE ACCEPTABLE IN EVERY RESPECT TO THE OWNERS REPRESENTATIVE. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, AND OSHA SAFETY REQUIREMENTS IN PERFORMANCE WITH THIS WORK.
13. THE ACCESS TO EQUIPMENT SHOWN ON THE DRAWINGS IS THE MINIMUM ACCEPTABLE SPACE REQUIREMENTS. ALL OPEN DUCT AND PIPE OPENINGS SHALL BE ADEQUATELY COVERED AT ALL TIME TO PREVENT ITEMS FROM ENTERING.
14. NO CUTTING OR DRILLING IN STRUCTURAL MEMBERS SHALL BE DONE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.
15. ALL FLOOR MOUNTED MECHANICAL EQUIPMENT SHALL BE SET ON 6-INCH HIGH CONCRETE BASE, UNLESS OTHERWISE NOTED OR SHOWN ON DRAWINGS. THE UNISTRUT INSERT OF DUCTWORK AND PIPING SYSTEMS SHALL INCLUDE ALL INSERTS, VERTICAL SUPPORTS, HORIZONTAL SUPPORT MEMBERS, CLAMPS, HANGERS, ROLLERS, BOLTS, NUTS AND ANY OTHER ACCESSORY ITEMS FOR A COMPLETE SUPPORTING SYSTEM.
16. UPON COMPLETION OF THIS WORK REMOVE ALL SURPLUS MATERIAL AND RUBBISH RESULTING FROM THIS WORK AND LEAVE THE PREMISES IN A CLEAN AND ORDERLY CONDITION.
17. THE ENTIRE MECHANICAL SYSTEM INCLUDING PLUMBING AND HVAC SYSTEMS SHALL BE QUIET IN OPERATION. THE CONTRACTOR SHALL MAKE PROMPTLY AND FREE OF CHARGE, UPON NOTICE FROM THE OWNER, ANY NECESSARY REPAIRS DUE TO DEFECTIVE WORKMANSHIP OR MATERIALS THAT MAY OCCUR DURING A PERIOD OF ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION.
18. PRE FILTERS USED DURING CONSTRUCTION AND TESTING SHALL BE REPLACED PRIOR TO TURNING THE SYSTEM OVER TO THE OWNER.

SECTION 230100 OPERATION AND MAINTENANCE MANUALS

19. THE CONTRACTOR SHALL TURN OVER TO THE OWNER THE OPERATION AND MAINTENANCE MANUALS WITH THE BALANCING REPORTS. THE MANUALS SHALL INCLUDE AIR-BALANCING REPORTS, SYSTEM COMMISSIONING PROCEDURES, START-UP TESTS AND REPORTS. ALSO INCLUDED SHALL BE THE EQUIPMENT AND SYSTEM PERFORMANCE TEST REPORTS AND WARRANTIES.

SECTION 233001 METAL DUCTS

20. THIS SECTION INCLUDES RECTANGULAR AND ROUND METAL DUCTWORK FOR VENTILATING, AIR CONDITIONING SYSTEMS IN PRESSURE CLASSES FROM MINUS 2 INCHES TO PLUS 10 INCHES WATER GAGE.
21. THE DUCT SYSTEM DESIGNS, AS INDICATED, HAVE BEEN USED TO SELECT AND SIZE AIR MOVING AND DISTRIBUTION EQUIPMENT AND OTHER COMPONENTS OF THE HVAC AIR SYSTEM. CHANGES OR ALTERATIONS TO THE LAYOUT OR CONFIGURATION OF THE DUCT SYSTEM MUST BE SPECIFICALLY APPROVED IN WRITING. APPROVED LAYOUT MODIFICATIONS PROPOSED MUST BE WITHOUT INCREASING THE SYSTEM TOTAL STATIC PRESSURE.
22. THE GENERAL FABRICATION REQUIREMENTS SHALL ALSO COMPLY WITH ALL SMACNA'S HVAC DUCT CONSTRUCTION STANDARDS. CONSTRUCTION SHALL BE BASED ON STATIC PRESSURES INDICATED ON THE SCHEDULES, DRAWINGS AND SPECIFICATIONS. TYPICAL TOTAL STATIC PRESSURE OF THE SUPPLY FAN SYSTEMS ARE IN THE 2.5" RANGE AND THE EXHAUST SYSTEMS ARE TYPICALLY IN THE 8" RANGE, SEE SCHEDULES FOR EXACT PRESSURES. COMPLIANCE OF THIS WORK SHALL ALSO CONFORM TO NFPA STANDARD 90A.
23. TRANSVERSE JOINTS: SELECT JOINT TYPES AND FABRICATE ACCORDING TO "SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," FIGURE 2-1, RECTANGULAR DUCT/TRANSVERSE JOINTS FOR STATIC-PRESSURE CLASS AS REQUIRED FOR THIS PROJECT, APPLICABLE SEALING REQUIREMENTS, MATERIALS INVOLVED, DUCT SUPPORT INTERVALS, AND OTHER PROVISIONS ARE TO BE PER THE SMACNA STANDARDS.
24. LONGITUDINAL SEAMS: SELECT SEAM TYPES AND FABRICATE ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," FIGURE 2-2, "RECTANGULAR DUCT/LONGITUDINAL SEAMS," FOR STATIC-PRESSURE CLASS FOR THIS PROJECT, APPLICABLE SEALING REQUIREMENTS, MATERIALS INVOLVED, DUCT-SUPPORT INTERVALS, AND OTHER PROVISIONS ARE TO BE PER THE SMACNA STANDARDS.
25. ELBOWS, TRANSITIONS, OFFSETS, BRANCH CONNECTIONS, AND OTHER DUCT CONSTRUCTION: SELECT TYPES AND FABRICATE ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," CHAPTER 4, "FITTINGS AND OTHER CONSTRUCTION" FOR STATIC-PRESSURE CLASS FOR THIS PROJECT, APPLICABLE SEALING REQUIREMENTS, MATERIALS INVOLVED, DUCT-SUPPORT INTERVALS, AND OTHER PROVISIONS ARE TO BE PER SMACNA STANDARDS.
26. ROUND DUCTS AND FITTINGS, GENERAL FABRICATION REQUIREMENTS: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," CHAPTER 3, "ROUND, OVAL, AND FLEXIBLE DUCT" BASED ON INDICATED STATIC-PRESSURE CLASS FOR THIS PROJECT.
27. TRANSVERSE JOINTS: SELECT JOINT TYPES AND FABRICATE ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," FIGURE 3-1, "ROUND DUCT TRANSVERSE JOINTS," FOR STATIC PRESSURE CLASS FOR THIS PROJECT, APPLICABLE SEALING REQUIREMENTS, MATERIALS INVOLVED, DUCT-SUPPORT INTERVALS, AND OTHER PROVISIONS PER SMACNA STANDARDS.
28. LONGITUDINAL SEAMS: SELECT SEAM TYPES AND FABRICATE ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE", FIGURE 3-2, "ROUND DUCT LONGITUDINAL SEAMS," FOR STATIC-PRESSURE CLASS FOR THIS PROJECT APPLICABLE SEALING REQUIREMENTS, MATERIALS INVOLVED DUCT-SUPPORT INTERVALS, AND OTHER PROVISIONS AS PER SMACNA STANDARDS.
29. TEES AND LATERALS: SELECT TYPES AND FABRICATE ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," FIGURE 3-5, "90 DEGREE TEES AND LATERALS," AND FIGURE 3-6 "CONICAL TEES," FOR STATIC-PRESSURE CLASS PER THIS PROJECT, APPLICABLE SEALING REQUIREMENTS, MATERIALS INVOLVED, DUCT-SUPPORT INTERVALS, AND OTHER PROVISIONS PER SMACNA STANDARDS.
30. SHEET METAL MATERIALS, GENERAL MATERIAL REQUIREMENTS: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE" FOR ACCEPTABLE MATERIALS, MATERIAL THICKNESS, AND DUCT CONSTRUCTION METHODS UNLESS OTHERWISE INDICATED. SHEET METAL MATERIALS SHALL BE NEW PRODUCT WITHOUT IMPERFECTIONS. GALVANIZED SHEET STEEL: COMPLY WITH ASTM A 653. GALVANIZED COATING DESIGNATION: G60. REINFORCEMENT SHAPES AND PLATES: COMPLY WITH ASTM A 36, STEEL PLATES, SHAPES, AND BARS: BLACK AND GALVANIZED. TIE RODS: GALVANIZED STEEL, ¼-INCH MINIMUM DIAMETER FOR LENGTHS 36 INCHES OR LESS; ⅜-INCH MINIMUM DIAMETER FOR LENGTHS LONGER THAN 36 INCHES.
31. SEALANT AND GASKETS, GENERAL SEALANT AND GASKET REQUIREMENTS: SURFACE-BURNING CHARACTERISTICS FOR SEALANTS AND GASKETS SHALL HAVE A MINIMUM FLAME-SPREAD INDEX OF 25 AND A MAXIMUM SMOKE DEVELOPED INDEX OF 50 WHEN TESTED ACCORDING TO UL723; CERTIFIED BY AN NRTL. USE A TWO PART TAPE SEALING SYSTEM OR A WATER BASED JOINT AND SEAM SEALANT, FLANGED JOINT SEALANT SHALL COMPLY WITH ASTM C 920.
32. HANGERS AND SUPPORTS, HANGER RODS: CADMIUM-PLATED STEEL RODS AND NUTS. STRAP AND ROD SIZES: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," TABLE 5-1, "RECTANGULAR DUCT HANGERS MINIMUM SIZE," AND TABLE 5-2, "MINIMUM HANGER SIZES FOR ROUND DUCT."
33. STEEL CABLES FOR GALVANIZED-STEEL DUCTS: GALVANIZED STEEL COMPLYING WITH ASTM A 603.STEEL CABLE END CONNECTIONS: CADMIUM-PLATED STEEL ASSEMBLIES WITH BRACKETS, SWIVEL, AND BOLTS DESIGNED FOR DUCT HANGER SERVICE: WITH AN AUTOMATIC-LOCKING AND CLAMPING DEVICE. DUCT ATTACHMENTS: SHEET METAL SCREWS, BLIND RIVETS, OR SELF-TAPPING METAL SCREWS: COMPATIBLE WITH DUCT MATERIALS.
34. TRAPEZE AND RISER SUPPORTS FOR GALVANIZED-STEEL DUCTS SHALL BE USED AS NEED AND ARE TO BE GALVANIZED - STEEL SHAPES AND PLATES. WIRE HANGERS ARE NOT ALLOWED. USE THREADED ROD TO STEEL JOIST WITH ANVIL STEEL WASHERS AND DOUBLE NUT CONNECTION. ONE INCH 18 GA GALVANIZED STEEL STRAPS ARE ALLOWED FOR SMALLER SINGLE RUN DUCTWORK.
35. INSTALL DUCTS ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE" UNLESS OTHERWISE INDICATED. DUCTWORK IS TO BE INSTALLED WITH FEWEST JOINTS AS POSSIBLE. SHOP AND PREFABRICATE THE FITTINGS WHENEVER POSSIBLE. PREFABRICATED FITTINGS ARE TO BE USED FOR CHANGES IN DIRECTIONS AND BRANCH CONNECTIONS. UNLESS OTHERWISE INDICATED, INSTALL DUCTS VERTICALLY AND HORIZONTALLY, AND PARALLEL AND PERPENDICULAR TO BUILDING LINES AND WALLS. INSTALL DUCTS WITH A CLEARANCE OF AT LEAST 1 INCH, PLUS ALLOW FOR INSULATION THICKNESS WHEN NOTED IN THE SPECIFICATIONS OR DRAWINGS. WHERE DUCTS PASS THROUGH EXTERIOR WALLS AND ARE EXPOSED TO THE OUTSIDE OR VIEW, COVER THE OPENING BETWEEN THE WALL AND DUCT OR DUCT INSULATION WITH SHEET METAL FLANGES OF SAME METAL THICKNESS AS THE DUCT. OVERLAP OPENINGS ON FOUR SIDES BY AT LEAST 1-½ INCHES. DURING CONSTRUCTION PROTECT DUCT INTERIORS FROM MOISTURE, CONSTRUCTION DEBRIS AND DUST, AND OTHER FOREIGN MATERIALS AT ALL TIMES.
36. DUCT SEALING SHALL BE FOR THE DUCT STATIC PRESSURES, SEAL CLASSES, AND LEAKAGE CLASSES SPECIFIED IN "DUCT CONSTRUCTION SCHEDULE" ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE." THE CONTRACTOR SHALL COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," CHAPTER 5, "HANGERS AND SUPPORTS."
37. THIS CONTRACTOR NEEDS TO GET APPROVAL FROM THE STRUCTURAL ENGINEER ON ATTACHMENT SELECTION AND SPACING OF THE SYSTEMS HE WANTS TO INSTALL AND THE SUPPORTING OF THE DUCTWORK FROM THE STRUCTURE. BUILDING ATTACHMENTS SHALL BE CONCRETE INSERTS, POWDER-ACTUATED FASTENERS, OR STRUCTURAL-STEEL FASTENERS APPROPRIATE FOR CONSTRUCTION MATERIALS TO WHICH HANGERS ARE BEING ATTACHED. IF CONSTRUCTION PHASING ALLOWS, INSTALL CONCRETE INSERTS BEFORE PLACING CONCRETE IS PREFERRED. POWDER-ACTUATED CONCRETE FASTENERS ARE TO BE INSTALLED AFTER CONCRETE IS PLACED AND COMPLETELY CURED. ONLY USE POWDER-ACTUATED CONCRETE FASTENERS FOR STANDARD-WEIGHT AGGREGATE CONCRETE OR FOR SLABS MORE WHICH HAVE A THICKNESS GREATER THAN 4 INCHES. POWDER-ACTUATED CONCRETE FASTENERS ARE NOT TO BE USED FOR LIGHTWEIGHT-AGGREGATE CONCRETES OR FOR SLABS LESS THAN 4 INCHES THICK.
38. HANGER SPACING: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," TABLE 5-1, "RECTANGULAR DUCT HANGERS MINIMUM SIZE," AND TABLE 5-2, "MINIMUM HANGER SIZES FOR ROUND DUCT," FOR MAXIMUM HANGER SPACING; INSTALL HANGERS AND SUPPORTS WITHIN 24 INCHES OF EACH ELBOW AND WITHIN 48 INCHES OF EACH BRANCH INTERSECTION. IF THE HANGERS ARE EXPOSED TO VIEW THEY SHALL BE THREADED ROD AND ANGLE OR CHANNEL SUPPORTS. INSTALL UPPER ATTACHMENTS TO STRUCTURES. SELECT AND SIZE UPPER ATTACHMENTS WITH PULL-OUT, TENSION, AND SHEAR CAPACITIES APPROPRIATE FOR SUPPORTED LOADS AND BUILDING MATERIALS WHERE USED.
39. COORDINATE DUCT INSTALLATIONS AND SPECIALTY ARRANGEMENTS WITH DRAWINGS. MAKE DUCTWORK CONNECTIONS TO EQUIPMENT WITH FLEXIBLE CONNECTORS FOR THE RATED PRESSURE AND USE INDOOR OR OUTDOOR. COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE" FOR BRANCH, OUTLET AND INLET, AND FAN OR UNIT CONNECTIONS.
40. FABRICATE DUCTS WITH GALVANIZED SHEET STEEL EXCEPT AS OTHERWISE INDICATED AND AS FOLLOWS: ELBOW CONFIGURATION - RECTANGULAR DUCT: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," FIGURE 4-2 "RECTANGULAR ELBOWS." BRANCH CONFIGURATION - RECTANGULAR DUCT: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," FIGURE 4-6, "BRANCH CONNECTIONS." RECTANGULAR MAIN TO RECTANGULAR BRANCH: 45-DEGREE ENTRY.RECTANGULAR MAIN TO ROUND BRANCH PROVIDE A 45 DEGREE TYPE TAKE-OFF.

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RIVIERA BEACH PD

Project Manager:	BRIAN SANDERS
Territory Manager:	AARON LUDWIG
Project Engineer:	ROB DECOSTA
Drawn By:	JA
Approved By:	JAMIE HADERLIE
Origination Date:	07/17/25

No	BY	REVISION	DATE
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SHEET NAME
VENTILATION SPECIFICATIONS

DRAWING NUMBER
6342

SHEET NUMBER
ZM003

SCALED FOR ORIGINAL DRAWING AT 22" X 34"

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PROJECT LOCATION
2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER
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FIRING RANGE EQUIPMENT DRAWINGS

SHEET NUMBER
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SPECIFICATIONS:

SECTION 233300 AIR DUCT ACCESSORIES

41. GENERAL, COMPLY WITH NFPA 90A, "INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS," AND WITH NFPA 90B, "INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS." COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE"FOR ACCEPTABLE MATERIALS, MATERIAL THICKNESSES, AND DUCT CONSTRUCTION METHODS UNLESS OTHERWISE INDICATED. SHEET METAL MATERIALS SHALL BE FREE OF PITTING, SEAM MARKS, STAINS, DISCOLORATIONS, AND OTHER IMPERFECTIONS. MATERIALS, GALVANIZED SHEET STEEL: COMPLY WITH ASTM A 653, GALVANIZED COATING DESIGNATION G60. REINFORCEMENT SHAPES AND PLATES: GALVANIZED - STEEL REINFORCEMENT WHERE INSTALLED ON GALVANIZED SHEET METAL DUCTS: TIE RODS SHALL BE GALVANIZED STEEL, ¼-INCH MINIMUM DIAMETER FOR LENGTHS 36 INCHES OR LESS; ⅜-INCH MINIMUM DIAMETER FOR LENGTHS LONGER THAN 36 INCHES.
42. MANUAL VOLUME DAMPERS, STANDARD, STEEL, MANUAL VOLUME DAMPERS: STANDARD LEAKAGE RATING WITH LINKAGE OUTSIDE AIRSTREAM, SUITABLE FOR HORIZONTAL OR VERTICAL APPLICATIONS. FRAMES SHALL BE A HAT-SHAPED TYPE, GALVANIZED SHEET STEEL, MITERED AND WELDED CORNERS WITH FLANGES FOR ATTACHING TO WALLS. PROVIDE FRAMES FOR INSTALLING IN DUCTS. THE BLADES ARE TO BE MULTIPLE OR SINGLE BLADE OR PARALLEL THE BLADE AXLES SHALL BE GALVANIZED STEEL, DAMPERS IN DUCTS WITH PRESSURE CLASSES OF 3-INCH WG OR LESS SHALL HAVE AXLES FULL LENGTH OF DAMPER BLADES AND BEARINGS AT BOTH ENDS OF OPERATING SHAFT. 2.10.4 MANUAL BALANCING DAMPERS.
43. CONTROL DAMPERS, GENERAL REQUIREMENTS: USE PARALLEL BLADE CONFIGURATION FOR TWO-POSITION CONTROL. SEE DRAWINGS FOR SIZES.
44. CONSTRUCTION SHALL BE STANDARD STEEL. PROVIDE STANDARD LEAKAGE RATING WITH LINKAGE OUTSIDE AIRSTREAM, SUITABLE FOR HORIZONTAL OR VERTICAL APPLICATIONS. THE FRAMES SHALL BE HAT-SHAPED CHANNEL WITH INTEGRAL FLANGES. THE BLADES SHALL BE AIRFOIL, GALVANIZED STEEL WITH A PARALLEL BLADE CONFIGURATION. MATERIAL SHALL BE ASTM A 653 GALVANIZED STEEL. THE BLADE SEALS SHALL BE REPLACEABLE AND ARE TO BE MECHANICALLY ATTACHED EXTRUDED SILICONE, VINYL, OR PLASTIC COMPOSITE. THE JAMB SEALS ARE TO BE STAINLESS STEEL, OR COMPRESSION TYPE. THE AXLES SHALL BE MECHANICALLY ATTACHED TO BLADES. BEARINGS ARE TO BE STAINLESS STEEL MOUNTED IN THE FRAME. WHERE BLADE AXLES ARE INSTALLED IN VERTICAL POSITION, PROVIDE THRUST BEARINGS. THE LINKAGE SHALL BE CONCEALED IN FRAME AND CONSTRUCTED OF ALUMINUM AND PLATED OR STAINLESS STEEL WITH STAINLESS STEEL HARDWARE. THE DAMPERS AND ACTUATORS SHALL BE ACCESSIBLE FOR VISUAL INSPECTION AND SERVICE. DAMPER ACTUATORS SHALL OPERATE WITH DAMPERS WITH SUFFICIENT RESERVE POWER TO PROVIDE SMOOTH MODULATING ACTION OR TWO-POSITION ACTION AND PROPER SPEED OF RESPONSE AT VELOCITY AND PRESSURE CONDITIONS TO WHICH THE DAMPER IS SUBJECT TO. ACTUATORS SHALL PRODUCE SUFFICIENT POWER AND TORQUE TO CLOSE OFF AGAINST THE MAXIMUM SYSTEM PRESSURES ENCOUNTERED. ACTUATORS SHALL BE SIZED TO CLOSE OFF AGAINST THE FAN SHUTOFF PRESSURE AS A MINIMUM REQUIREMENT. PROVIDE ONE ACTUATOR FOR EACH DAMPER ASSEMBLY. MULTIPLE ACTUATORS REQUIRED TO DRIVE A SINGLE DAMPER ASSEMBLY SHALL OPERATE IN UNISON IF NEEDED.
45. FLANGE CONNECTIONS SHALL BE ADD-ON OR ROLL-FORMED, FACTORY-FABRICATED, SLIDE-ON TRANSVERSE FLANGE CONNECTORS, GASKETS, AND COMPONENTS, GALVANIZED STEEL, GAGE AND SHAPE TO MATCH CONNECTING DUCTWORK.
46. TURNING VANES SHALL COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE"; FIGURES 4-3, "VANES AND VANE RUNNERS," AND 4-4, "VANE SUPPORT IN ELBOWS." VANE CONSTRUCTION SHALL BE SINGLE OR DOUBLE WALL.
47. DUCT-MOUNTED ACCESS DOORS PROVIDE IN ACCORDANCE WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE"; FIGURES 7-2, "DUCT ACCESS DOORS AND PANELS." AND LATCHES: 1-BY-1-INCH BUTT OR PIANO HINGE AND CAM LATCHES. FABRICATE DOORS AIRTIGHT AND SUITABLE FOR DUCT PRESSURE CLASS. FRAME SHALL BE GALVANIZED SHEET STEEL WITH BEND-OVER TABS AND FOAM GASKETS.
48. FLEXIBLE CONNECTORS SHALL BE FLAME-RETARDANT OR NONCOMBUSTIBLE FABRICS COMPLY WITH UL 181, CLASS 1. THE OUTDOOR SYSTEM, FLEXIBLE CONNECTORS SHALL BE FABRIC GLASS FABRIC DOUBLE COATED WITH WEATHERPROOF, SYNTHETIC RUBBER RESISTANT TO UV RAYS AND OZONE.
49. DUCT ACCESSORY INSTALLATION SHALL BE ACCORDING TO APPLICABLE DETAILS IN SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE" FOR METAL DUCTS. USE GALVANIZED-STEEL ACCESSORIES IN GALVANIZED STEEL. INSTALL VOLUME DAMPERS AT POINTS ON SUPPLY, RETURN, AND EXHAUST SYSTEMS WHERE BRANCHES EXTEND FROM LARGER DUCTS. WHERE DAMPERS ARE INSTALLED IN DUCTS HAVING DUCT LINER, INSTALL DAMPERS WITH HAT CHANNELS OF SAME DEPTH AS LINER, AND TERMINATE LINER WITH NOSING AT HAT CHANNEL. SEE DRAWINGS FOR SOME OF THE DAMPER LOCATIONS. HOWEVER DAMPERS WILL NEED TO BE PROVIDED AS REQUIRED IN THE SYSTEM TO BALANCE THE SYSTEM ADEQUATELY. DAMPERS ARE TO BE SET AT A FULLY OPEN POSITION BEFORE TESTING, ADJUSTING, AND BALANCING. INSTALL TEST HOLES AT FAN INLETS AND OUTLETS AND ELSEWHERE AS NEEDED FOR BALANCING. INSTALL DUCT ACCESS DOORS ON SIDES OF DUCTS TO ALLOW FOR INSPECTING, ADJUSTING, AND MAINTAINING ACCESSORIES AND EQUIPMENT AT THE FOLLOWING LOCATIONS: FIRE AND SMOKE DAMPERS LOCATIONS IF JOB REQUIRED! AS WELL AS CONTROL DAMPERS AREAS. DOORS ARE TO BE INSTALLED WITH SWING AGAINST DUCT STATIC PRESSURES.
50. INSTALL FLEXIBLE CONNECTORS TO CONNECT DUCTS TO EQUIPMENT. INSTALL DUCT TEST HOLES WHERE REQUIRED FOR TESTING AND BALANCING PURPOSES.

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Territory Manager:	AARON LUDWIG
Project Engineer:	ROB DECOSTA
Drawn By:	JA
Approved By:	JAMIE HADERLIE
Origination Date:	07/17/25

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SHEET NAME

VENTILATION SPECIFICATIONS

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SHEET NUMBER

ZM004

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RBPD EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION

2125 AVENUE S,
RIVIERA BEACH, FL
33404

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FIRING RANGE EQUIPMENT DRAWINGS

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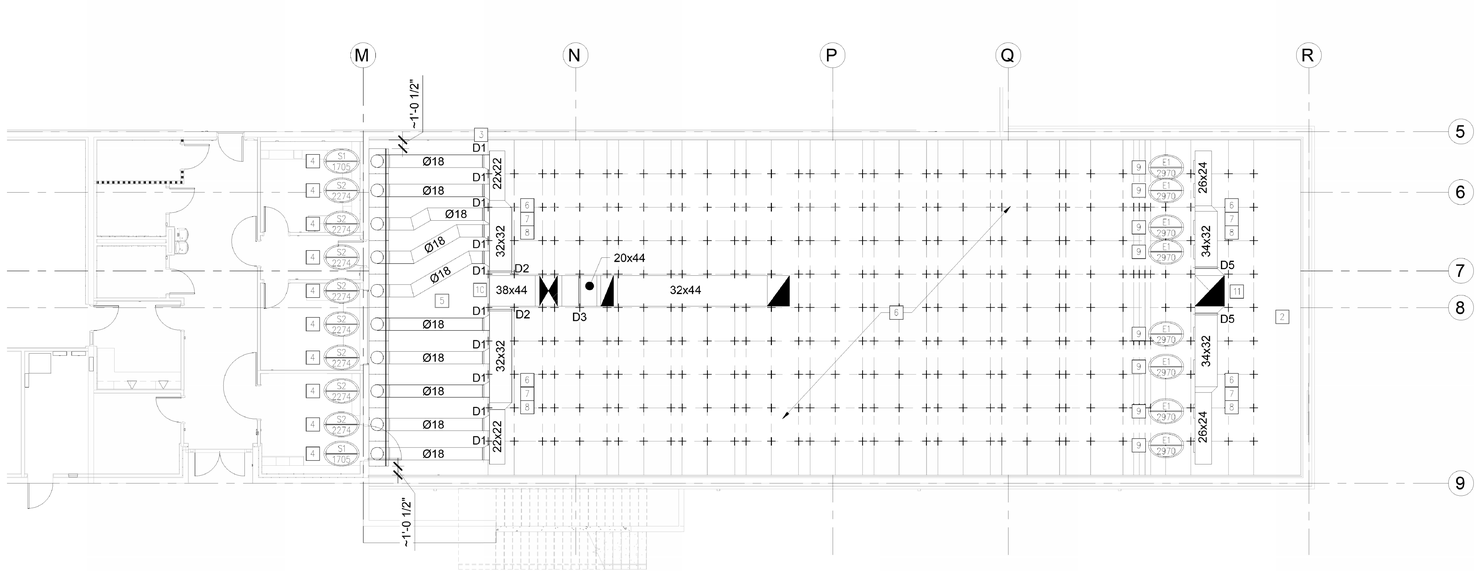
KEYED NOTES (SHEET ZM101)

1. BALLISTIC CEILING (TYP.). SEE ATI RANGE DRAWINGS FOR DETAILS.
2. BULLET TRAP (TYP.). SEE ATI RANGE DRAWINGS FOR DETAILS.
3. HIGH EFFICIENCY TAKEOFF (HET) SUPPLIED BY MECHANICAL CONTRACTOR (M.C.). (TYP). MANUAL VOLUME DAMPER SUPPLIED BY ACTION TARGET. (TYP)
4. RADIAL SUPPLY AIR (SA) DIFFUSER SUPPLIED BY ATI AND INSTALLED BY M.C. INSTALL RADIAL DIFFUSER UNIFORMLY, PLUMB AND LEVEL, AND SYMMETRICAL ACROSS WIDTH OF RANGE. RADIAL DIFFUSER FACE SHALL BE A MINIMUM OF 7'-0" A.F.F. SEE DETAILS AT.07.01 AND AT.08.04 WITHIN ZM60X SERIES SHEETS. DIFFUSER SHALL BE FIELD BALANCED TO SUPPLY CFM STATED ON PLANS.
5. T-BAR LAY-IN CEILING SHALL BE PROVIDED BY OWNER OR GENERAL CONTRACTOR. T-BAR CEILING SHALL BE INSTALLED BETWEEN TOP OF RADIAL DIFFUSER AND THE STEEL SAFETY CEILING. SEE DETAIL AT.08.04 WITHIN ZM60X SERIES SHEETS.
6. ALL SUPPLY/RETURN/EXHAUST AIR DUCTWORK INSTALLED ABOVE CEILINGS, OR HUNG HIGH WITHIN SPACE SHALL BE SUPPORTED FROM OVERHEAD STRUCTURE (TYP). OWNER SHALL BE RESPONSIBLE FOR STRUCTURAL INTEGRITY REQUIRED TO SUPPORT ALL DUCTWORK IN ACCORDANCE WITH CODE AND INDUSTRY STANDARDS.
7. DUCTWORK HANGERS/SUPPORTS BY M.C. ALL SUPPORTS SHALL BE ABLE TO CARRY THE WEIGHT OF THE SECTION OF DUCT PLUS 15% SAFETY FACTOR. M.C. SHALL BE RESPONSIBLE FOR SUPPORTS FINAL DESIGN AND LOCATION IN COORDINATION WITH FINAL DUCTWORK LAYOUT. ALL SUPPORTS SHALL BE FABRICATED OF RUST RESISTANT MATERIALS.
8. ALL DUCTWORK (SA, RA, & EA) SHALL BE CROSS BRACED AND REINFORCED IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE" LATEST EDITION FOR THE FOLLOWING STATED STATIC PRESSURE RATINGS:
   - •SUPPLY AIR (SA) DUCTWORK = 2.5"W.C.
   - •RETURN AIR (RA) DUCTWORK = 2.5"W.C.
   - •EXHAUST AIR (EA) DUCTWORK = 2.5"W.C. (SEE KEYNOTE 13 EXCEPTION)
9. PROVIDE LOUVER GRILLE WITH INTEGRAL OPPOSED BLADE BALANCE DAMPER. SEE AIR DEVICE SCHEDULE WITHIN ZM60X SERIES SHEETS. LOUVER SHALL BE FIELD BALANCED TO EXHAUST CFM STATED ON PLANS.
10. 38"x44" SUPPLY AIR (SA) DUCT UP THROUGH DECK TO ROOF TO CURB. CURB CONNECTION SHALL MATCH SA DUCT SIZE (26"x44") FROM RANGE. SEE ASSOCIATED ELEVATION SECTION WITHIN ZM301 SERIES SHEETS FOR CLARIFICATION.
11. 42"x44" EXHAUST AIR (EA) DUCT UP THROUGH DECK TO ROOF. EA DUCT SHALL CONNECT TO FB-1 (CORRESPONDING EF SUCTION). SEE ASSOCIATED ELEVATION SECTION WITHIN ZM301 SERIES SHEETS FOR CLARIFICATION.

GENERAL NOTES (SHEET ZM101)

1. DIMENSIONS SHOWN ON PLANS ARE APPROXIMATE AND BASED UPON MEASUREMENTS FROM THE BUILDINGS WALLS OR FINISHED FLOOR GENERATED IN A DIGITAL DRAWING. M.C. SHALL FIELD VERIFY ALL MEASUREMENTS AND EQUIPMENT/DUCTWORK LOCATIONS PRIOR TO INSTALLATION (TYP.).
2. FRAMED WALL BETWEEN RANGE AND ADJACENT SPACES SHALL BE AIRTIGHT TO ENSURE PROPER AIR MOVEMENT OF RANGE VENTILATION SYSTEM.
3. PROVIDE ANGLE IRON DUCT TRAPEZE WHERE INDICATED ON PLANS. TRAPEZE PROVIDED BY ACTION TARGET.
4. REFER TO DETAILS WITH ZM60X SERIES SHEETS FOR DUCTWORK INSTALLATION REQUIREMENTS.
5. TURNING VANES SHALL BE USED ON ALL 90, 45, AND 22.5 DEGREE CHANGE IN DIRECTION FITTINGS FOR ALL SUPPLY, RETURN, AND EXHAUST AIR SQUARE/RECTANGULAR DUCTS.
6. MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCTWORK FLOOR PENETRATIONS WITH STRUCTURAL ENGINEER TO ENSURE THE PROPER STRUCTURAL MODIFICATIONS HAVE BEEN MADE TO ACCOMMODATE PASSAGE.
7. M.C. SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL SEEN AND UNSEEN ARCHITECTURAL AND STRUCTURAL BUILDING FEATURES. FINAL DUCTWORK ROUTING SHALL BE THE RESPONSIBILITY OF THE M.C.
8. M.C. SHALL BE RESPONSIBLE FOR PROVIDING SHOP DRAWINGS, INCLUDING DUCTWORK ROUTING, TO ATI FOR REVIEW PRIOR TO SYSTEM INSTALLATION.
9. M.C. SHALL DESIGN, PROVIDE, AND INSTALL HVAC SUPPORTS/ANCHORAGE TO RESIST SEISMIC AND WIND LOADS PER APPLICABLE CODES.



I / ZM101 HVAC PLAN
SCALE - 1/8" = 1'-0"

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Origination Date:	07/17/25

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HVAC PLAN

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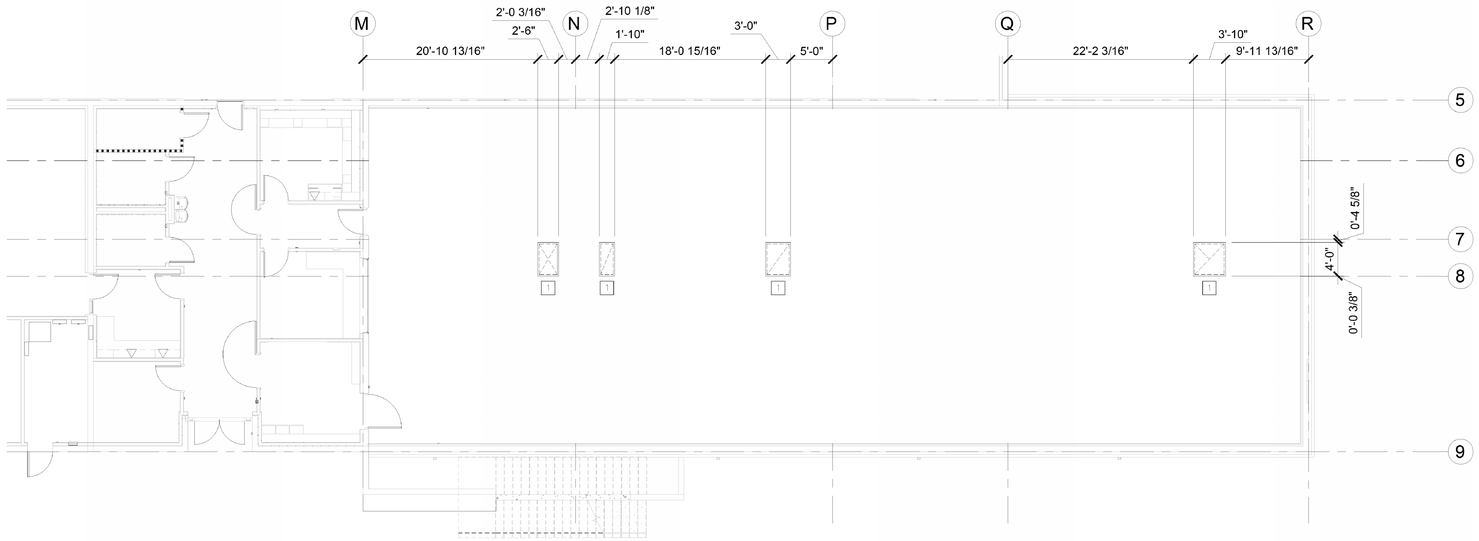
KEYED NOTES (SHEET ZM102)

1. CONTRACTOR SHALL PROVIDE A MINIMUM OF 2" OF CLEARANCE ON ALL SIDES FROM THE DUCT TO THE PENETRATION OPENING.

GENERAL NOTES (SHEET ZM102)

1. DIMENSIONS SHOWN ON PLANS ARE APPROXIMATE AND BASED UPON MEASUREMENTS FROM THE BUILDINGS WALLS OR FINISHED FLOOR GENERATED IN A DIGITAL DRAWING. M.C. SHALL FIELD VERIFY ALL MEASUREMENTS AND EQUIPMENT/DUCTWORK LOCATIONS PRIOR TO INSTALLATION (TYP.).
2. CURBS SHALL BE PROVIDED BY OTHERS AT ALL DUCT PENETRATIONS. FLASH CURB AND DUCT PENETRATIONS WATERTIGHT.



1 ZM102 PENETRATION ROOF PLAN
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REGISTRATION

STATE OF FLORIDA
JOHNNIE LOHRUM JR.
AR 96099
REGISTERED ARCHITECT

DRAWING HISTORY

No.	DATE	DESCRIPTION

CONSULTANT

PROJECT STATUS

90% CONSTRUCTION DOCUMENTS / PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RBPD EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION

2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER

1007657.00

SHEET TITLE

FIRING RANGE EQUIPMENT DRAWINGS

SHEET NUMBER

Q1.27E

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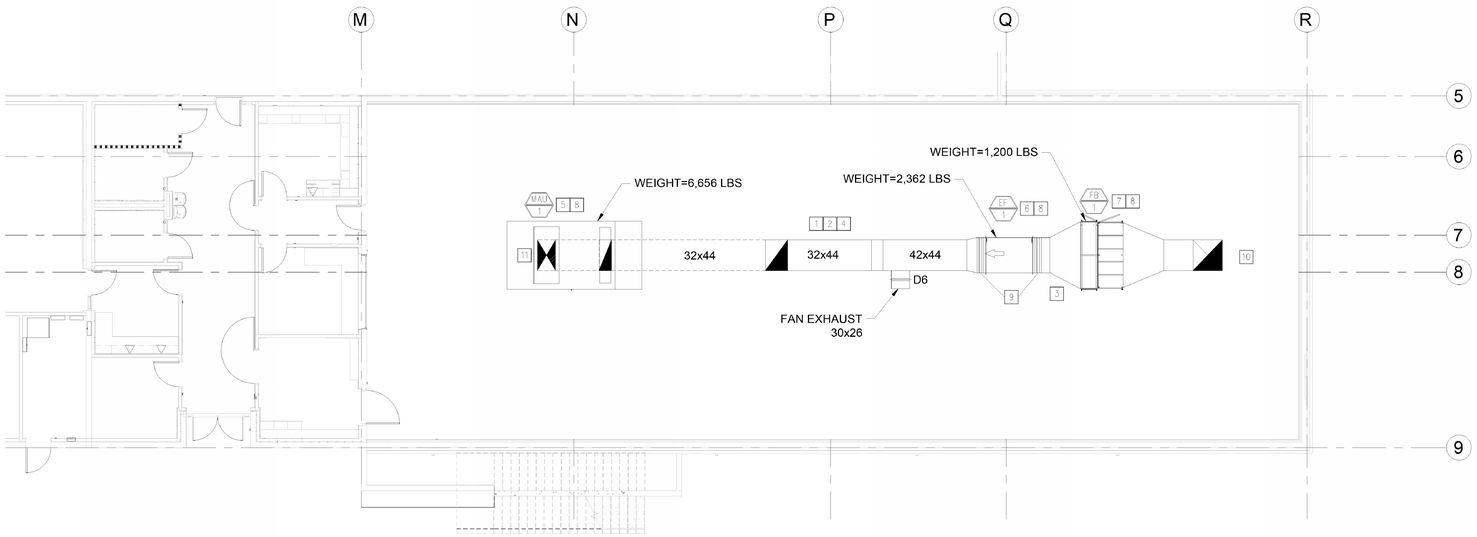
DATE STAMP: 10/23/2025 5:43:55 PM

KEYED NOTES (SHEET ZM103)

1. ROOF APPLIED DUCTWORK SUPPORTS BY MECHANICAL CONTRACTOR (M.C.) ALL SUPPORTS SHALL BE ABLE TO CARRY THE WEIGHT OF THE SECTION OF DUCT PLUS 15% SAFETY FACTOR. M.C. SHALL BE RESPONSIBLE FOR SUPPORTS FINAL DESIGN AND LOCATION IN COORDINATION WITH FINAL DUCTWORK LAYOUT AND CODE. ALL SUPPORTS SHALL BE FABRICATED OF RUST RESISTANT MATERIALS.
2. ALL DUCTWORK (SA, RA, & EA) SHALL BE CROSS BRACED AND REINFORCED IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE" LATEST EDITION FOR THE FOLLOWING STATED STATIC PRESSURE RATINGS:
   - SUPPLY AIR (SA) DUCTWORK = 2.5"W.C.
   - RETURN AIR (RA) DUCTWORK = 2.5"W.C.
   - EXHAUST AIR (EA) DUCTWORK = 2.5"W.C. (SEE EXCEPTION BELOW)
3. EXHAUST AIR EXCEPTION*** THE SEGMENT OF EXHAUST DUCT, INCLUDING THE TRANSITION, BETWEEN THE FILTER BANK (FB) AND THE EXHAUST FAN (EF) SHALL BE DESIGNED TO HANDLE A STATIC PRESSURE OF -8"W.C.
4. ALL EXTERIOR DUCTWORK SHALL BE CONSTRUCTED TO PEAK ON TOP TO PREVENT STANDING WATER. DUCTWORK MAY BE SEALED WATER-TIGHT, INSULATED WITH A CODE MINIMUM R-8 INSULATION, AND JACKETED OR WRAPPED WITH A UV PROTECTIVE COATING.
5. INSTALL MAKE UP AIR UNIT (MAU) ON ROOF IN THIS LOCATION. SEE SCHEDULES WITHIN ZM60X SERIES SHEETS FOR EQUIPMENT SPECIFICATIONS.THE CURB TO BE PROVIDED BY ATI, TO BE INSTALLED BY M.C., ROOF CURB SHALL BE SECURELY ANCHORED AND BRACED TO ROOF DECK IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION, AND SHALL MEET ALL SEISMIC REQUIREMENTS WHERE APPLICABLE.
6. INSTALL EXHAUST FAN (EF) ON EQUIPMENT RAILS ON ROOF IN THIS LOCATION. SEE SCHEDULES WITHIN ZM60X SERIES SHEETS FOR EQUIPMENT SPECIFICATIONS. M.C. SHALL PROVIDE A MINIMUM OF TWO (2) RAILS BELOW EXHAUST FAN (EF). ROOF APPLIED EQUIPMENT RAILS SHALL BE INSTALLED IN COORDINATION WITH THE EXHAUST FAN APPLIED EQUIPMENT SUPPORTS FROM MANUFACTURER.
7. INSTALL 2-STAGE FILTER BANK (FB) ON EQUIPMENT RAILS ON ROOF IN THIS LOCATION. SEE SCHEDULES WITHIN ZM60X SERIES SHEETS FOR EQUIPMENT SPECIFICATIONS. M.C. SHALL PROVIDE A MINIMUM OF THREE (3) RAILS BELOW FILTER BANK (FB). SUPPORTS SHALL BE INSTALLED IN PARALLEL TO SHORT SIDE DIMENSION (I.E. SAME DIRECTION AS AIRFLOW). RAILS SHALL BE PLACED ON THE EDGES AND IN THE MIDDLE OF THE FILTER BANK.
8. EQUIPMENT RAILS/SUPPORTS BY M.C. ALL RAILS/SUPPORTS SHALL BE ABLE TO CARRY THE WEIGHT OF THE EQUIPMENT PLUS 15% SAFETY FACTOR. M.C. SHALL BE RESPONSIBLE FOR RAILS/SUPPORTS FINAL DESIGN AND LOCATION IN COORDINATION WITH FINAL EQUIPMENT LOCATION AND CODE. ALL RAILS/SUPPORTS SHALL BE FABRICATED OF RUST RESISTANT MATERIALS.
9. M.C. SHALL PROVIDE FLEXIBLE FABRIC DUCT CONNECTOR INSTALLED BETWEEN DUCT AND MECHANICAL EQUIPMENT. (TYP).
10. 42"x44" EXHAUST AIR (EA) DUCT UP THROUGH DECK FROM BELOW. EA DUCT SHALL CONNECT TO FB-1 (CORRESPONDING EF SUCTION). SEE CONTINUATION ON SHEET ZM101.
11. 38"x44" SUPPLY AIR (SA) DUCT DOWN TO RANGE FROM CURB. OPENING IN CURB SHALL MATCH DUCT SIZE AND LOCATION. SEE CONTINUATION ON SHEET ZM101.

GENERAL NOTES (SHEET ZM103)

1. DIMENSIONS SHOWN ON PLANS ARE APPROXIMATE AND BASED UPON MEASUREMENTS FROM THE BUILDINGS WALLS OR FINISHED FLOOR GENERATED IN A DIGITAL DRAWING. M.C. SHALL FIELD VERIFY ALL MEASUREMENTS AND EQUIPMENT/DUCTWORK LOCATIONS PRIOR TO INSTALLATION (TYP.).
2. REFER TO DETAILS WITH ZM60X SERIES SHEETS FOR DUCTWORK INSTALLATION REQUIREMENTS.
3. TURNING VANES SHALL BE USED ON ALL 90, 45, AND 22.5 DEGREE CHANGE IN DIRECTION FITTINGS FOR ALL SUPPLY, RETURN, AND EXHAUST AIR SQUARE/RECTANGULAR DUCTS.
4. MECHANICAL CONTRACTOR (M.C.) SHALL COORDINATE ALL DUCTWORK FLOOR PENETRATIONS WITH STRUCTURAL ENGINEER TO ENSURE THE PROPER STRUCTURAL MODIFICATIONS HAVE BEEN MADE TO ACCOMMODATE PASSAGE.
5. ROOF CURBS SHALL BE PROVIDED BY ATI. FLASH CURB AND DUCT PENETRATIONS WATERTIGHT.
6. M.C. SHALL REFER TO ZM102 SERIES SHEETS FOR DIMENSIONS OF ROOF PENETRATION SIZES AND EQUIPMENT LOCATIONS.
7. M.C. SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL SEE AND UNSEEN ARCHITECTURAL AND STRUCTURAL BUILDING FEATURES. FINAL DUCTWORK ROUTING SHALL BE THE RESPONSIBILITY OF THE M.C.
8. M.C. SHALL BE RESPONSIBLE FOR PROVIDING SHOP DRAWINGS, INCLUDING DUCTWORK ROUTING, TO ATI FOR REVIEW PRIOR TO SYSTEM INSTALLATION.
9. M.C. SHALL DESIGN, PROVIDE, AND INSTALL HVAC SUPPORTS/ANCHORAGE TO RESIST SEISMIC AND WIND LOADS PER APPLICABLE CODES.



1 ZM103 VENTILATION ROOF PLAN
SCALE - 1/8" = 1'-0"

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PROJECT STATUS

100% SUBMITTAL

PROJECT NAME

RIVIERA BEACH PD

Project Manager:	BRIAN SANDERS
Territory Manager:	AARON LUDWIG
Project Engineer:	ROB DECOSTA
Drawn By:	JA
Approved By:	JAMIE HADERLIE
Origination Date:	07/17/25

No	BY	REVISION	DATE
1	JA	TAKE TO 100	08/25/25

SHEET NAME

VENTILATION ROOF PLAN

DRAWING NUMBER

6342

SHEET NUMBER

ZM103

SCALED FOR ORIGINAL DRAWING AT 22" X 34"

CLIENT

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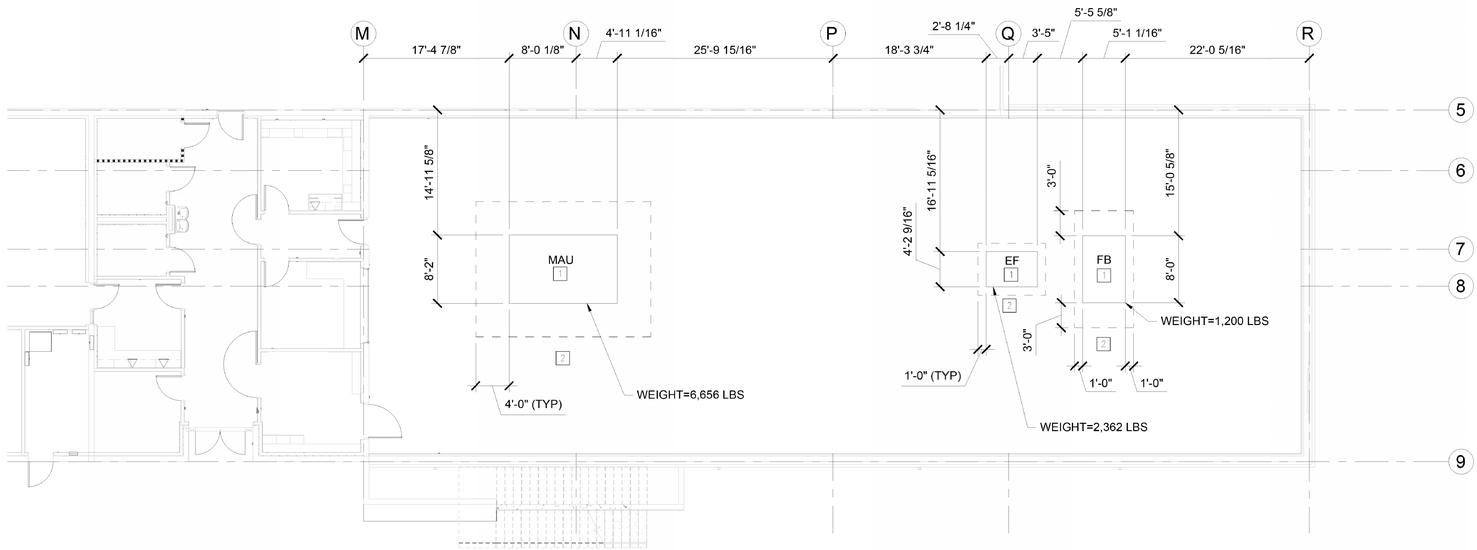
KEYED NOTES (SHEET ZM104)

1. CONTRACTOR SHALL PROVIDE SUPPORT FOR CURB & RAIL LOCATIONS
2. CONTRACTOR SHALL KEEP A MINIMUM CLEARANCE FROM THE UNITS

GENERAL NOTES (SHEET ZM104)

1. DIMENSIONS SHOWN ON PLANS ARE APPROXIMATE AND BASED UPON MEASUREMENTS FROM THE BUILDINGS WALLS OR FINISHED FLOOR GENERATED IN A DIGITAL DRAWING. M.C. SHALL FIELD VERIFY ALL MEASUREMENTS AND EQUIPMENT/DUCTWORK LOCATIONS PRIOR TO INSTALLATION (TYP.).
2. CURBS SHALL BE PROVIDED BY OTHERS AT ALL DUCT PENETRATIONS. FLASH CURB AND DUCT PENETRATIONS WATERTIGHT.
3. M.C. SHALL DESIGN, PROVIDE, AND INSTALL HVAC SUPPORTS/ANCHORAGE TO RESIST SEISMIC AND WIND LOADS PER APPLICABLE CODES.



1 ZM104 CURB AND RAIL PLAN
SCALE - 1/8" = 1'-0"

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Approved By:	JAMIE HADERLIE
Origination Date:	07/17/25

No	BY	REVISION	DATE
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SHEET NAME
CURB AND RAIL PLAN

DRAWING NUMBER
6342

SHEET NUMBER
ZM104

SCALED FOR ORIGINAL DRAWING AT 22" X 34"

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PROJECT LOCATION
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PROJECT NUMBER
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SHEET NUMBER
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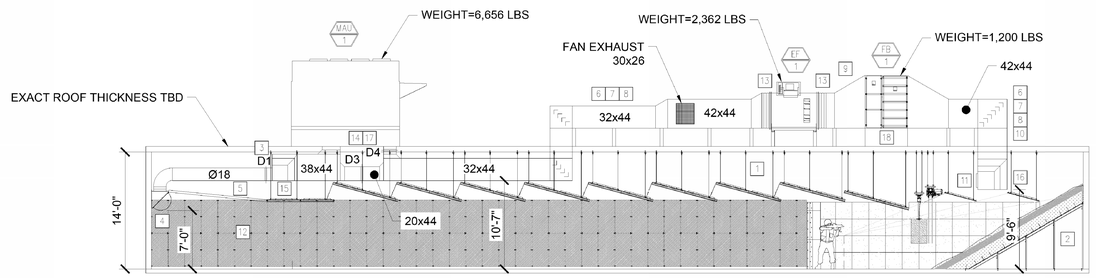
KEYED NOTES (SHEET ZM301)

1. BALLISTIC CEILING (TYP.). SEE ATI RANGE DRAWINGS FOR DETAILS.
2. BULLET TRAP (TYP.). SEE ATI RANGE DRAWINGS FOR DETAILS.
3. HIGH EFFICIENCY TAKEOFF (HET) SUPPLIED BY MECHANICAL CONTRACTOR (M.C.). (TYP). MANUAL VOLUME DAMPER SUPPLIED BY ACTION TARGET. (TYP)
4. RADIAL SUPPLY AIR (SA) DIFFUSER SUPPLIED BY ATI AND INSTALLED BY M.C. INSTALL RADIAL DIFFUSER UNIFORMLY, PLUMB AND LEVEL, AND SYMMETRICAL ACROSS WIDTH OF RANGE. RADIAL DIFFUSER FACE SHALL BE A MINIMUM OF 7'-0" A.F.F. SEE DETAILS AT.07.01 AND AT.08.04 WITHIN ZM60X SERIES SHEETS. DIFFUSER SHALL BE FIELD BALANCED TO SUPPLY CFM STATED ON PLANS.
5. T-BAR LAY-IN CEILING SHALL BE PROVIDED BY OWNER OR GENERAL CONTRACTOR. T-BAR CEILING SHALL BE INSTALLED BETWEEN TOP OF RADIAL DIFFUSER AND THE STEEL SAFETY CEILING. SEE DETAIL AT.08.04 WITHIN ZM60X SERIES SHEETS.
6. ALL SUPPLY/RETURN/EXHAUST AIR DUCTWORK INSTALLED ABOVE CEILINGS, OR HUNG HIGH WITHIN SPACE SHALL BE SUPPORTED FROM OVERHEAD STRUCTURE (TYP). OWNER SHALL BE RESPONSIBLE FOR STRUCTURAL INTEGRITY REQUIRED TO SUPPORT ALL DUCTWORK IN ACCORDANCE WITH CODE AND INDUSTRY STANDARDS.
7. DUCTWORK HANGERS/SUPPORTS BY M.C. ALL SUPPORTS SHALL BE ABLE TO CARRY THE WEIGHT OF THE SECTION OF DUCT PLUS 15% SAFETY FACTOR. M.C. SHALL BE RESPONSIBLE FOR SUPPORTS FINAL DESIGN AND LOCATION IN COORDINATION WITH FINAL DUCTWORK LAYOUT. ALL SUPPORTS SHALL BE FABRICATED OF RUST RESISTANT MATERIALS.
8. ALL DUCTWORK (SA, RA, & EA) SHALL BE CROSS BRACED AND REINFORCED IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE' LATEST EDITION FOR THE FOLLOWING STATED STATIC PRESSURE RATINGS:
   - •SUPPLY AIR (SA) DUCTWORK = 2.5"W.C.
   - •RETURN AIR (RA) DUCTWORK = 2.5"W.C.
   - •EXHAUST AIR (EA) DUCTWORK = 2.5"W.C. (SEE EXCEPTION BELOW)
9. EXHAUST AIR EXCEPTION*** THE SEGMENT OF EXHAUST DUCT, INCLUDING THE TRANSITION, BETWEEN THE FILTER BANK (FB) AND THE EXHAUST FAN (EF) SHALL BE DESIGNED TO HANDLE A STATIC PRESSURE OF -8"W.C. T-GRID CEILING SHALL REMAIN FREE OF ALL OBSTRUCTIONS BETWEEN DIFFUSER AND SHOOTING LINE INCLUDING BUT NOT LIMITED TO LIGHTS, SIGNAGE ETC.
10. ALL EXTERIOR DUCTWORK SHALL BE CONSTRUCTED TO PEAK ON TOP TO PREVENT STANDING WATER. DUCTWORK MAY BE SEALED WATER-TIGHT, INSULATED WITH A CODE MINIMUM R-8 INSULATION, AND JACKETED OR WRAPPED WITH A UV PROTECTIVE COATING.
11. PROVIDE LOUVER GRILLE WITH INTEGRAL OPPOSED BLADE BALANCE DAMPER. SEE AIR DEVICE SCHEDULE WITHIN ZM60X SERIES SHEETS. LOUVERS ARE TO BE INSTALLED AND LOCKED IN FULL OPEN POSITION UNTIL FIELD BALANCED. EXHAUST LOUVERS BALANCED TO CFM STATED ON PLANS.
12. CO SENSOR PROVIDED BY ATI. SENSOR INSTALLED A MAX OF 48-72" A.F.F. ON RANGE SIDEWALL, AND WITHIN 18" OF BACK EDGE OF SHOOTING STALL.
13. M.C. SHALL PROVIDE FLEXIBLE DUCTWORK FITTING AT CONNECTION OF DUCT TO EQUIPMENT (TYP.)
14. CURB PROVIDED AND INSTALLED BY GC. CURB SHALL BE BUILT IN COORDINATION WITH SCHEDULED MAU DIMENSIONS. ROOF CURB SHALL BE SECURELY ANCHORED AND BRACED TO ROOF DECK IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION, AND SHALL MEET ALL SEISMIC REQUIREMENTS WHERE APPLICABLE. FINAL DESIGN TO BE APPROVED BY ATI BEFORE MANUFACTURING.
15. 38"x44" SUPPLY AIR (SA) DUCT DOWN THROUGH DECK TO RANGE. M.C. SHALL TRANSITION SA DUCT FROM 26"x44" TO MATCH SA DUCT CONNECTION AT MAU-1.
16. 42"x44" EXHAUST AIR (EA) DUCT DOWN THROUGH DECK TO RANGE. EA DUCT SHALL CONNECT TO FB-1 (EF-1 SUCTION). SEE ASSOCIATED ELEVATION SECTION WITHIN ZM30X SERIES SHEETS FOR CLARIFICATION.
17. GC TO PROVIDE SLOPED CURB AT MAU-1 TO MATCH ROOF PITCH. CONTRACTOR SHALL FIELD VERIFY FINAL ROOF PITCH BEFORE INSTALLATION.
18. MC WILL PROVIDE A MINIMUM 3 RAILS RUNNING IN THE DIRECTION OF AIRFLOW

GENERAL NOTES (SHEET ZM301)

1. DIMENSIONS SHOWN ON PLANS ARE APPROXIMATE AND BASED UPON MEASUREMENTS FROM THE BUILDINGS WALLS OR FINISHED FLOOR GENERATED IN A DIGITAL DRAWING. M.C. SHALL FIELD VERIFY ALL MEASUREMENTS AND EQUIPMENT/DUCTWORK LOCATIONS PRIOR TO INSTALLATION (TYP.).
2. REFER TO DETAILS WITH ZM60X SERIES SHEETS FOR DUCTWORK INSTALLATION REQUIREMENTS.
3. TURNING VANES SHALL BE USED ON ALL 90, 45, AND 22.5 DEGREE CHANGE IN DIRECTION FITTINGS FOR ALL SUPPLY, RETURN, AND EXHAUST AIR SQUARE/RECTANGULAR DUCTS.
4. MECHANICAL CONTRACTOR (M.C.) SHALL COORDINATE ALL DUCTWORK FLOOR PENETRATIONS WITH STRUCTURAL ENGINEER TO ENSURE THE PROPER STRUCTURAL MODIFICATIONS HAVE BEEN MADE TO ACCOMMODATE PASSAGE.
5. ROOF CURB SHALL BE PROVIDED BY GC. FLASH CURB AND DUCT PENETRATIONS WATERTIGHT.
6. M.C. SHALL REFER TO ZM102 SERIES SHEETS FOR DIMENSIONS OF ROOF PENETRATION SIZES AND EQUIPMENT LOCATIONS.
7. M.C. SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL SEEN AND UNSEEN ARCHITECTURAL AND STRUCTURAL BUILDING FEATURES. FINAL DUCTWORK ROUTING SHALL BE THE RESPONSIBILITY OF THE M.C.
8. M.C. SHALL BE RESPONSIBLE FOR PROVIDING SHOP DRAWINGS, INCLUDING DUCTWORK ROUTING, TO ATI FOR REVIEW PRIOR TO SYSTEM INSTALLATION.
9. M.C. SHALL DESIGN, PROVIDE, AND INSTALL HVAC SUPPORTS/ANCHORAGE TO RESIST SEISMIC AND WIND LOADS PER APPLICABLE CODES.



I / ZM301 VENTILATION SECTION
SCALE - 1/8" = 1'-0"

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Project Manager:	BRIAN SANDERS
Territory Manager:	AARON LUDWIG
Project Engineer:	ROB DECOSTA
Drawn By:	JA
Approved By:	JAMIE HADERLIE
Origination Date:	07/17/25

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SHEET NAME
VENTILATION SECTION

DRAWING NUMBER
6342

SHEET NUMBER
ZM301
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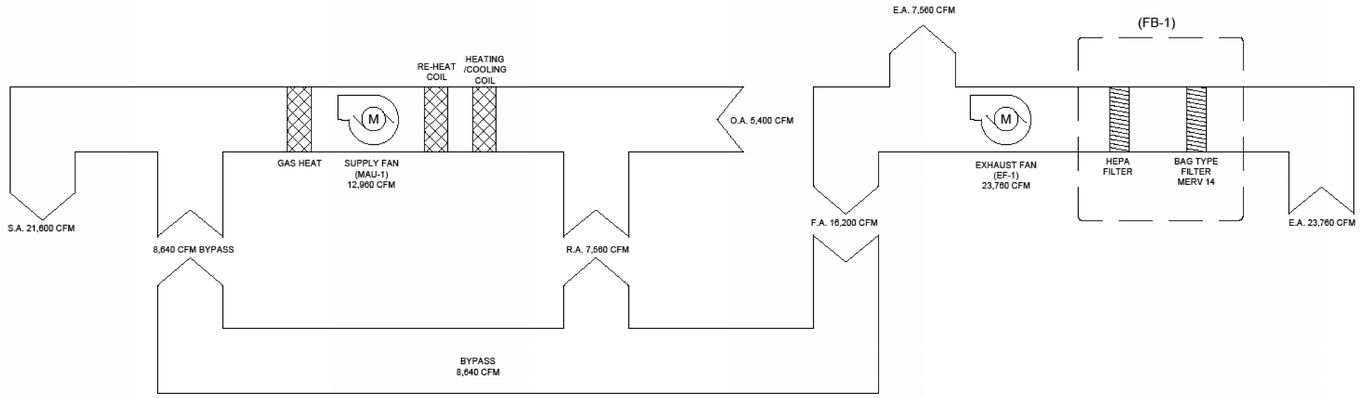

AIR FLOW SCHEMATIC-1

NOT TO SCALE

1 ZM501

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SHEET NAME

AIRFLOW SCHEMATIC RECIRC SYSTEM

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Q1.31E

PACKAGED MAKE-UP AIR UNIT

UNIT													COOLING							HOT GAS REHEAT			HEATING					
ID	LOCATION	SERVICE	MANUFACTURER AND MODEL NUMBER	WEIGHT (LB)	ELECTRICAL			EFFICIENCY	SUPPLY FAN			FILTERS	EAT DB/WB (°F)	LAT DB/WB (°F)	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	COMPRESSOR			TOTAL CAPACITY (MBH)	EAT DB/WB (°F)	LAT DB/WB (°F)	TYPE	MODULATION	TOTAL CAPACITY (MBH)	EDB (°F)	LDB (°F)	NOTES:
					VOLTAGE (V/HZ/PH)	MCA (A)	MROPD (A)	EER	AIRFLOW (CFM)	TSP ("W.C.)	MOTOR SIZE	EFFICIENCY					MODULATION	QTY	REFRIGERANT									
MAU-1	ROOF	RANGE	GREENHECK RV-75-60I-O-G2	6,656	460/60/3	133.2	150	9.8	12,960	5.025	7.5	MERV 8	81.8/68.5	51.3/51.2	665.9	414	VARIABLE SPEED	4	R-454B	459.4	51.3	84.5	NAT. GAS	HIGH TURNDOWN	486	56.9	91.6	1,2,3,4,5,6,7,8

GENERAL NOTES:
1. APPROVED RTU MANUFACTURERS ARE: GREENHECK, OR ATI-APPROVED EQUIVALENT.
2. COOLING COIL CAPACITIES LISTED ARE AT SITE ALTITUDE.
3. SEE EQUIPMENT TECHNICAL DATA SHEET FOR ALL UNIT DIMENSIONS.
4. UNIT TO BE SUPPLIED WITH 24" CURB MATCHED TO THE MAU FOOTPRINT.

ACCESSORIES:
1. FACTORY-INSTALLED NON-FUSED ELECTRICAL DISCONNECT
2. GFCI CONVENIENCE OUTLET (NON-POWERED), SEPARATE CIRCUIT, WIRED BY E.C.
3. CURB SUPPLIED BY ATI. REFER TO GENERAL NOTES FOR MORE INFORMATION.
4. VARIABLE SPEED SUPPLY FAN MOTOR CONTROLLED BY VFD.
5. MOTORIZED OA DAMPER, DDC CONTROL
6. HIGH-STATIC PRESSURE SUPPLY FAN.
7. BACNET-IP INTERFACE
8. PHASE AND BROWN OUT PROTECTION

DESIGN CONDITIONS

SPACE TYPE	WINTER INDOOR		WINTER OUTDOOR		SUMMER INDOOR		SUMMER OUTDOOR	
	DB (°F)	%RH	DB (°F)	WB (°F)	DB (°F)	%RH	DB (°F)	WB (°F)
FIRING RANGE	70	-	44.2	-	70	50	91.4	80.1

NOTES:
1. OUTDOOR DESIGN TEMPERATURES ARE FROM ASHRAE WEATHER DATA FOR WEST PALM BEACH, FL (99.6% HEATING, 0.4% COOLING DESIGN VALUES).
2. INDOOR DESIGN CONDITIONS ARE ASSUMED FOR EQUIPMENT SIZING PURPOSES.

EXHAUST FAN SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	AIR TYPE	AIR		FAN		ELECTRICAL		PHYSICAL		NOTES
					MAXIMUM AIRFLOW RATE (CFM)	STATIC PRESSURE (IN H20)	FAN SPEED (RPM)	OPERATING POWER (HP)	MOTOR SPEED (RPM)	MOTOR SIZE (HP)	POWER V/Hz/PH	LENGTH/ WIDTH/ HEIGHT (IN.)	ESTIMATED WEIGHT (LBS)	
EF-1	GREENHECK QEI-36	ROOF	INLINE MIXED FLOW	EXHAUST	23,760	7.5	1316	42.28	1725	50	460/60/3	73/55/82	2,362	1,2,3,4,5,6

NOTES:
1. PUNCHED INLET AND OUTLET FLANGES WITH COMPANION FLANGES.
2. DIRECT MOUNT, RESTRAINED-SPRING ISOLATORS, 1 INCH.
3. FAN HOUSING SEALED FOR OUTDOOR USE.
4. ENERGY EFFICIENT MOTOR WITH CLASS-B INSULATION.
5. WEATHER-PROOF MOTOR ENCLOSURE.
6. VFD-RATED MOTOR.

VARIABLE FREQUENCY DRIVE SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	UNIT SERVED	MOTOR/ELECTRICAL DATA			PHYSCIAL					NOTES
			HP	AMPERE RATING	V/Hz/PH	LENGTH (IN.)	WIDTH (IN.)	HEIGHT (IN.)	ENCLOSURE TYPE	WEIGHT (LBS.)	
VFD-1	ABB ACH580-01-065A-4	EF-1	50	65	460/60/3	10.1	8.0	23.7	IP21 / UL TYPE 1	44.1	1,2

NOTES:
1. EXTERNAL VFD'S ARE NOT REQUIRED WHERE HVAC EQUIPMENT PROVIDED BY THE MANUFACTURER IS FURNISHED WITH INTEGRAL VFD'S.
2. PROVIDE BACNET IP INTERFACE - ABB# FBIP-21

AIR DEVICE SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	SERVICE	TYPE	QTY.	CONNECTION SIZE (IN.) OR (W X H)	FACE SIZE (IN.) OR (H X W)	FINISH	NOTES
S1	ACTION TARGET	RANGE SUPPLY	PERFORATED RADIAL	10	Ø18"	48 X 18	ALUMINUM	1,2
E1	GREENHECK VCD-20	RANGE EXHAUST	3V OPPOSED-BLADE CONTROL DAMPER	8	-	20 X 20	GALVANIZED	3,5
D1	GREENHECK MBDR-50	RANGE SUPPLY	SINGLE-BLADE BALANCE DAMPER	10	Ø18"	-	GALVANIZED	6, 7
D2	GREENHECK VCD-20	RANGE SUPPLY BRANCHES	3V OPPOSED-BLADE CONTROL DAMPER	2	-	32 X 32	GALVANIZED	5, 7
D3	GREENHECK VCD-20	BYPASS	3V OPPOSED-BLADE CONTROL DAMPER	1	-	20 X 44	GALVANIZED	5, 8
D4	GREENHECK VCD-20	MAU RETURN	3V OPPOSED-BLADE CONTROL DAMPER	1	-	18 X 44	GALVANIZED	5, 8
D5	GREENHECK VCD-20	RANGE EXHAUST BRANCHES	3V OPPOSED-BLADE CONTROL DAMPER	1	-	34 X 32	GALVANIZED	5, 7
D6	GREENHECK VCD-20	FAN EXHAUST	3V OPPOSED-BLADE CONTROL DAMPER	1	-	30 X 26	GALVANIZED	5, 9

NOTES:
1. RADIAL DIFFUSER SHALL BE SUPPLIED BY ACTION TARGET.
2. PROVIDE OPPOSED BLADE DAMPER WITH LOUVER. DAMPER SHALL BE ADJUSTABLE THROUGH LOUVER FACE.
3. DIFFUSER SHALL BE INSTALLED IN ACCORDANCE WITH ACTION TARGET SPECIFICATIONS.
4. APPROVED MANUFACTURERS: TITUS, CARNES, NAILOR, PRICE, KRUEGER, METALAIRE, HART & COOLEY.
5. DAMPER CONSTRUCTION: 16 GA GALVANIZED STEEL, CHANNEL FRAME W/ SINGLE FLANGE, 3V BLADE TYPE, OPPOSED BLADE OPERATION,
6. DAMPER CONSTRUCTION: 20 GA GALVANIZED STEEL, SLIP FIT, SYNTHETIC AXLE BEARING.
7. ACTUATOR: MANUAL LOCKING QUADRANT.
8. ACTUATOR: BELIMO AFB24-SR, 24 VDC, MODULATING, 2-10 VDC CONTROL, 2-10 VDC FEEDBACK, SPRING RETURN OPEN, 180 IN-LB.
9. ACTUATOR: BELIMO AFX24-SR, 24 VDC, MODULATING, 2-10 VDC CONTROL, 2-10 VDC FEEDBACK, SPRING RETURN CLOSED, 180 IN-LB, NEMA 4/4X
10. ACTUATOR: BELIMO AFB24-SR, 24 VDC, MODULATING, 2-10 VDC CONTROL, 2-10 VDC FEEDBACK, SPRING RETURN CLOSED, 180 IN-LB.

FILTER BANK SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	FILTRATION	TYPE	ARRANG.	AIR		PHYSICAL		NOTES
						CLEAN STATIC PRESSURE (IN H20)	DIRTY STATIC PRESSURE (IN H20)	NUMBER 24" X 24" MODULES	NUMBER 12" X 24" MODULES	
FB-1	CAMFIL GP36H / SAD3 SPCL 3HX4W	ROOF	MERV 14	BAG	FLAT	0.48	2.5	12	0	1
			MERV 17	HEPA	FLAT	1.0	3.5	12	0	1,2

NOTES:
1. PROVIDE WEATHER-PROOF FILTER HOUSING WITH HINGED, LOCKABLE ACCESS DOORS.
2. IEST CERTIFIED HEPA FILTER, MIN 99.97% CAPTURE @ 0.3 MICRONS.

SPACE AIRFLOW VENTILATION SCHEDULE

ID	LOCATION	AIRFLOW REQUIREMENTS							SETPOINTS
		SUPPLY AIRFLOW RATE TO RANGE (CFM)	EXHAUST AIRFLOW RATE FROM RANGE (CFM)	BYPASS AIRFLOW RATE (CFM)	OUTSIDE AIRFLOW RATE (CFM)	EXHAUST AIRFLOW RATE (CFM)	RETURN AIRFLOW RATE (CFM)	VENTILATION AIRFLOW RATE (CFM)	INDOOR AIR CONDITIONS DB/RH (°F/%)
BAY 1	SHOOTING RANGE	21,600	23,760	8,640	5,400	7,560	7,560	12,960	70/50

NOTES:
1. SUPPLY AIRFLOW SIZED FOR 75 FPM AIR VELOCITY ACROSS RANGE WIDTH AT FIRING LINE PER NIOSH RECOMMENDATIONS.

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PROJECT STATUS
100% SUBMITTAL

PROJECT NAME
RIVIERA BEACH PD

Project Manager:	BRIAN SANDERS
Territory Manager:	AARON LUDWIG
Project Engineer:	ROB DECOSTA
Drawn By:	JA
Approved By:	JAMIE HADERLIE
Origination Date:	07/17/25

No	BY	REVISION	DATE
1	JA	TAKE TO 100	08/25/25

SHEET NAME
MECHANICAL HVAC SCHEDULES

DRAWING NUMBER
6342

SHEET NUMBER
ZM601

SCALED FOR ORIGINAL DRAWING AT 22" X 34"

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REGISTRATION
STATE OF FLORIDA · JOHNNIE LORIUM · AR 96289 · REGISTERED ARCHITECT

DRAWING HISTORY

No.	DATE	DESCRIPTION

CONSULTANT

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS / PERMIT SET

DATE OF ISSUE
10/14/2025

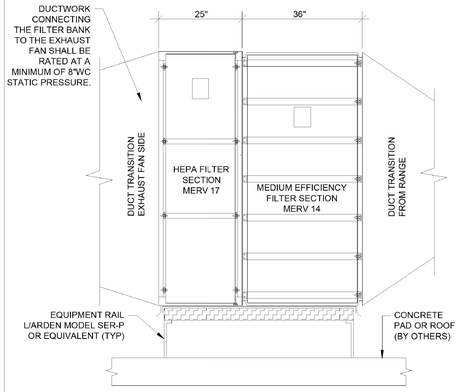
PROJECT NAME
RBPD EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
FIRING RANGE EQUIPMENT DRAWINGS

SHEET NUMBER
Q1.32E



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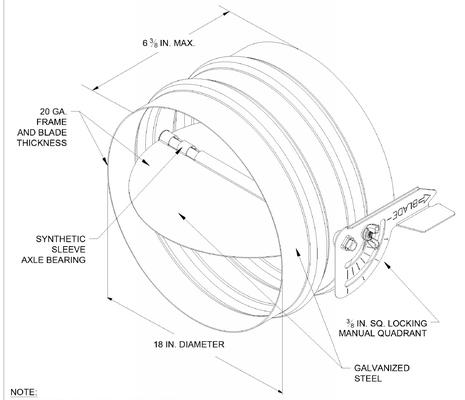
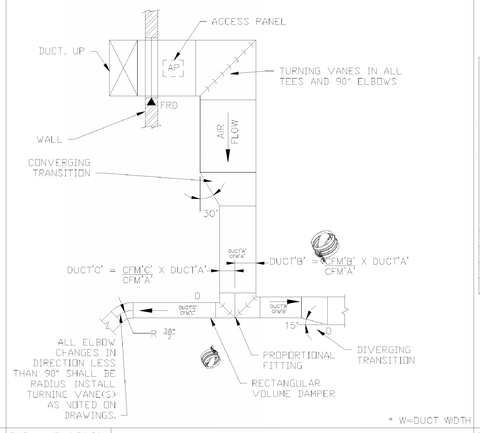
FILTER BANK INSTALLATION DETAIL (TYP.)



NOTE:
BASIS OF DESIGN: GREENHECK MBDR-50
PRESSURE: UP TO 4 IN W.G.

FILE NAME: AT.01.03
SCALE: NONE

MANUAL BALANCING DAMPER ROUND



* W=DUCT WIDTH

FILE NAME: M.04.01
SCALE: NONE

TYPICAL DUCTWORK

DIMENSION OF LONGEST SIDE, INCHES	SHEET METAL GAUGE (ALL FOUR SIDES)	MINIMUM REINFORCING ANGLE SIZE AND MAXIMUM LONGITUDINAL SPACING BETWEEN TRANSVERSE JOINTS &/OR INTERMEDIATE REINFORCING	TRANSVERSE REINFORCING (1) AT JOINTS				
			MIN. H. IN.	DRIVE SLIP / PLAIN S SLIP RECOMMENDED GAUGE	HEMMED S SLIP RECOMMENDED GAUGE	ALTERNATE BAR SLIP RECOMMENDED GAUGE	REINFORCED BAR SLIP RECOMMENDED GAUGE
UP THRU 12	26	NONE REQUIRED	1	26	26	24	24
13 - 18	24	NONE REQUIRED	1	24	24	24	24
19 - 30	24	1"X1"X1/8" @ 60 IN	1	24	24	24	24
31 - 36	22	1"X1"X1/8" @ 60 IN	1	-	-	22	22

(1) TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED.

(2) LONGITUDINAL JOINTS TO BE PITTSBURG OR SNAP LOCK TYPE.

(3) ALL DUCTING TO BE CONSTRUCTED TO SMACNA INSTALLATION STANDARDS AND SPECIFICATIONS.

FILE NAME: M.04.14
SCALE: NONE

DUCT CONSTRUCTION

FILE NAME: AT.07.01
SCALE: NONE

RADIAL DIFFUSER DETAIL (TYP.)

FILE NAME: M.04.02
SCALE: NONE

45 DEGREE TAKE-OFF

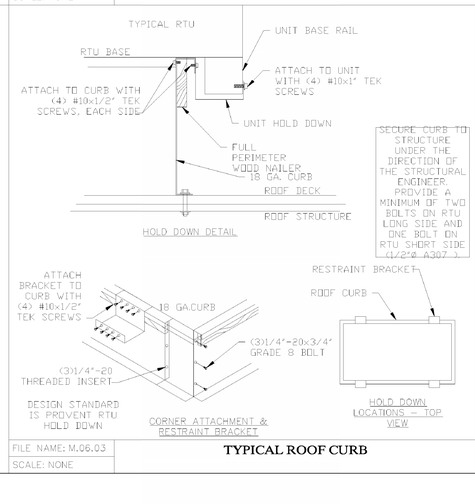
NOTE:
1. INSTALL AND FOLLOW ALL MANUFACTURERS INSTRUCTIONS. (MOUNTING, FASTENERS, SUPPORTS ETC.).

FILE NAME: M.04.09
SCALE: NONE

TYPICAL ROOF DUCT SUPPORT WITH RIDGE PEAK FOR WATER SHED

FILE NAME: M.04.10
SCALE: NONE

TYPICAL DUCT STRAP HANGER



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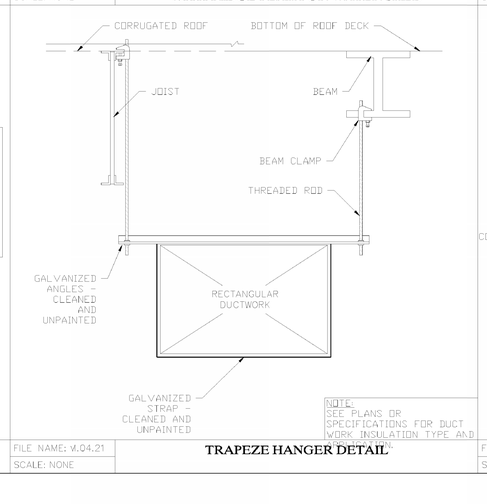
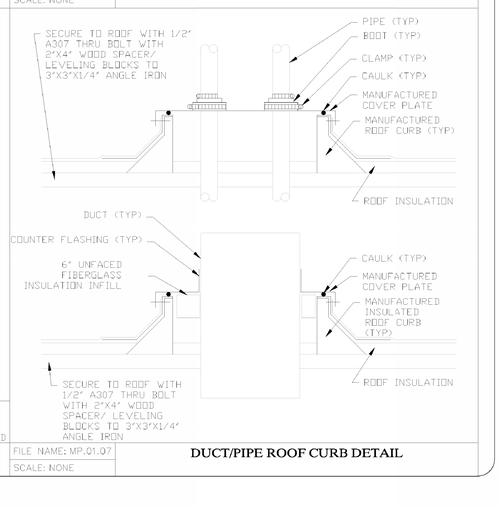
TYPICAL ROOF CURB



NOTE:
SEE PLANS OR SPECIFICATIONS FOR DUCT WORK INSULATION TYPE AND

FILE NAME: M.04.21
SCALE: NONE

TRAPEZE HANGER DETAIL



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SCALE: NONE

DUCT/PIPE ROOF CURB DETAIL

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PROJECT STATUS

100% SUBMITTAL

PROJECT NAME

RIVIERA BEACH PD

Project Manager:	BRIAN SANDERS
Territory Manager:	AARON LUDWIG
Project Engineer:	ROB DECOSTA
Drawn By:	JA
Approved By:	JAMIE HADERLIE
Origination Date:	07/17/25

No	BY	REVISION	DATE
1	JA	TAKE TO 100	08/25/25

SHEET NAME

MECHANICAL DETAILS

DRAWING NUMBER

6342

SHEET NUMBER

ZM602

SCALED FOR ORIGINAL DRAWING AT 22" X 34"

CLIENT

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STATE OF FLORIDA — LONNIE LONDRIM — AR 90289 — REGISTERED ARCHITECT

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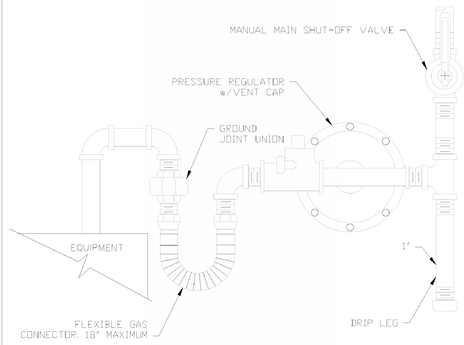
SHEET TITLE

FIRING RANGE EQUIPMENT DRAWINGS

SHEET NUMBER

Q1.33E

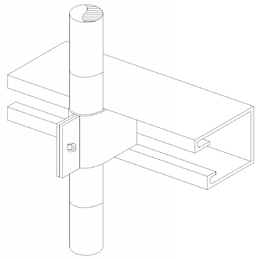


NOTES:

1. REGULATORS INSTALLED INDOORS ON MEDIUM PRESSURE NATURAL GAS PIPING (M.P. = 5 PSI OR LESS), REGULATORS SHALL BE INSTALLED WITH A "VENT LIMITING DEVICE" TO ELIMINATE CODE REQUIREMENT OF VENTING REGULATOR TO THE OUTSIDE.

FILE NAME: MP.04.05 | SCALE: NONE

TYPICAL GAS PIPING LB. TO OZ. CONNECTION



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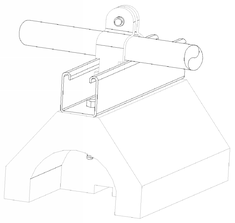
PIPE HANGERS



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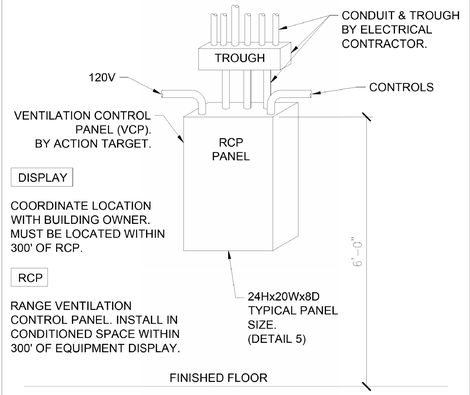
ROOF PIPE SUPPORT - POLYMER BASE



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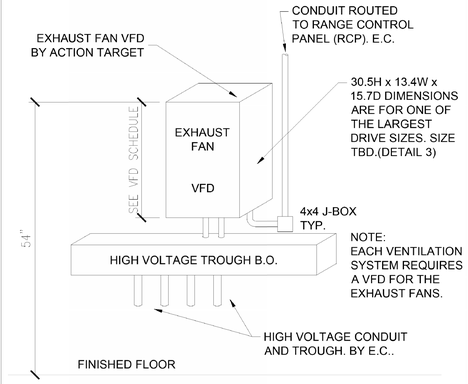
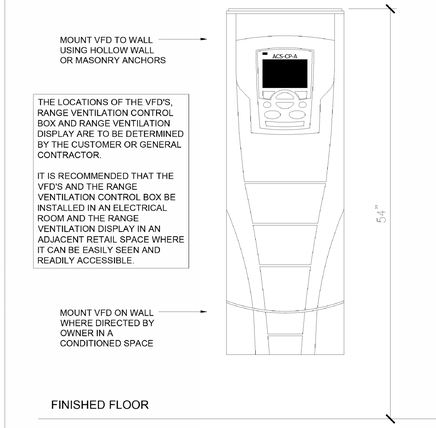
RCP PANEL DETAIL



VFD = VARIABLE FREQUENCY DRIVE
E.C. = ELECTRICAL CONTRACTOR

FILE NAME: AT.08.04 | SCALE: NONE

HVAC RECIRC SYSTEM VARIABLE FREQUENCY DRIVE (VFD) DETAIL



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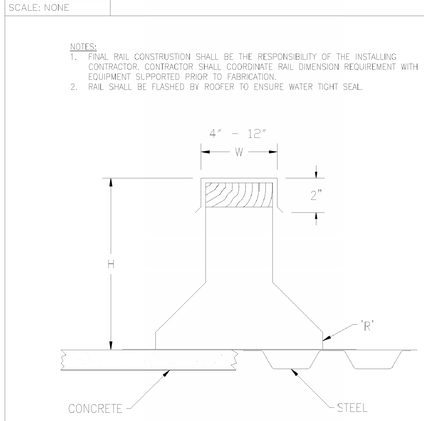
VARIABLE FREQUENCY DRIVE DETAIL



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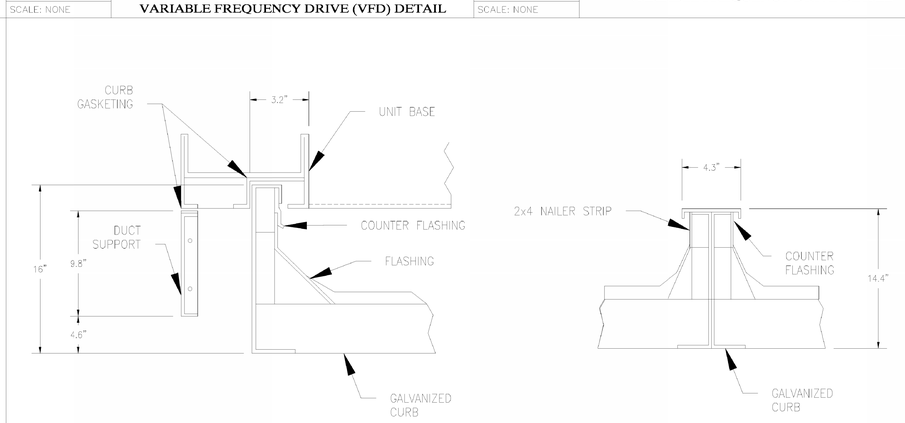
EQUIPMENT STAND DETAIL R-CER TYPE



FILE NAME: AT.08.07 | SCALE: NONE

MAKE-UP AIR UNIT CURB DIAGRAM

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Approved By:	JAMIE HADERLIE
Origination Date:	07/17/25

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1	JA	TAKE TO 100	08/25/25

SHEET NAME

MECHANICAL DETAILS CONTINUED

DRAWING NUMBER

6342

SHEET NUMBER

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SCALED FOR ORIGINAL DRAWING AT 22" X 34"

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REGISTRATION

STATE OF FLORIDA — JENNIE LOHRUM — AR 96598 — REGISTERED ARCHITECT

DRAWING HISTORY

No.	DATE	DESCRIPTION

CONSULTANT

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90% CONSTRUCTION DOCUMENTS / PERMIT SET

DATE OF ISSUE

10/14/2025

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RBPD EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION

2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER

1007657.00

SHEET TITLE

FIRING RANGE EQUIPMENT DRAWINGS

SHEET NUMBER

Q1.34E

KEYED NOTES (SHEET ZM701)

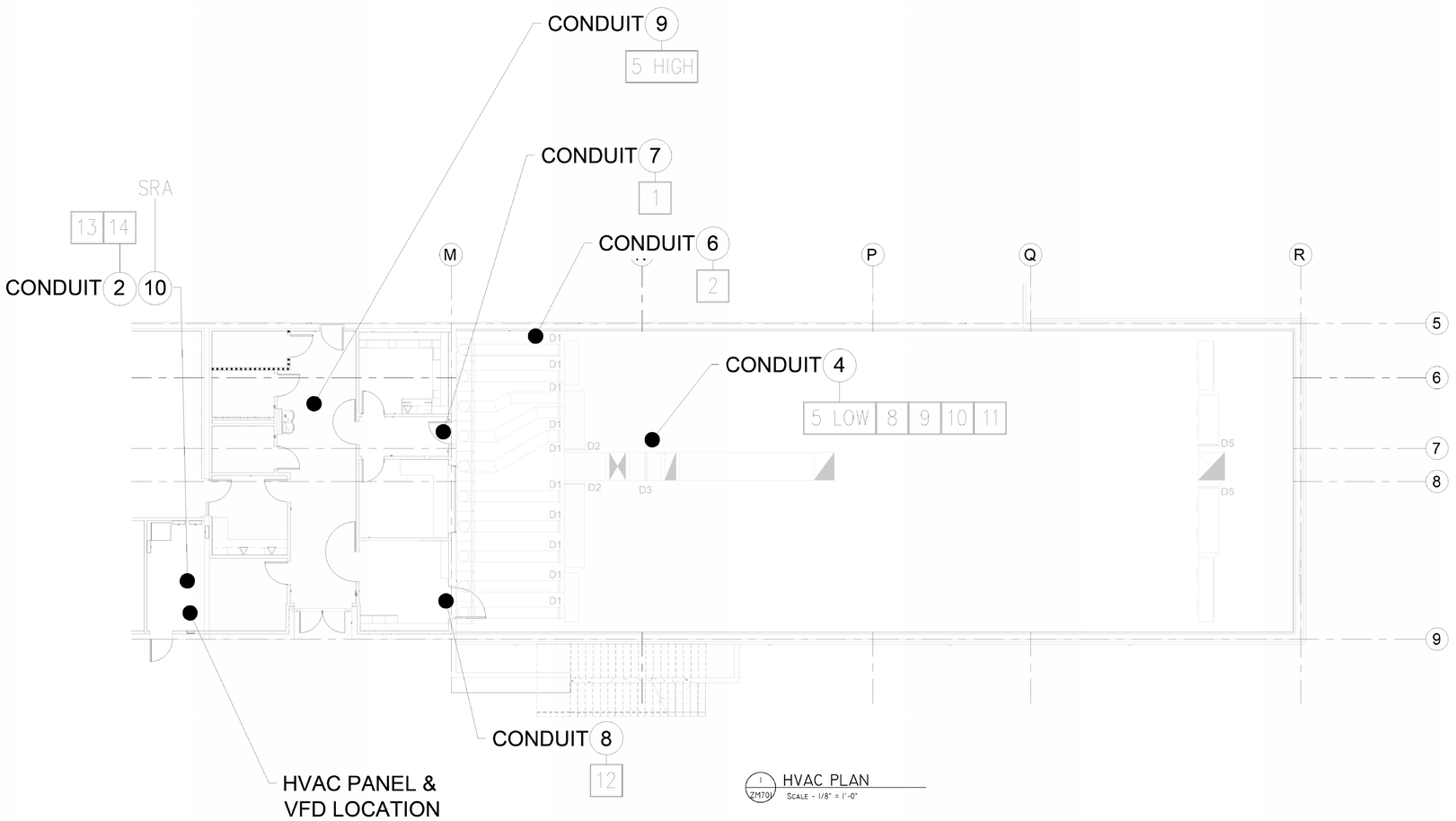
1. SEE ZM704.1–ZM704.3 FOR CONDUIT AND SENSOR DETAILS
2. PLACE CONDUITS IN THE LOCATIONS INDICATED FOR ACCURATE WIRING

GENERAL NOTES (SHEET ZM701)

(#) CONDUIT NUMBER

[#] SENSOR ID

A SEE SCHEDULES SHEET FOR FILL, QTY, AND TERMINATION STYLE



ZM701 HVAC PLAN
SCALE - 1/8" = 1'-0"

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PROJECT STATUS

100% SUBMITTAL

PROJECT NAME

RIVIERA BEACH PD

Project Manager:	BRIAN SANDERS
Territory Manager:	AARON LUDWIG
Project Engineer:	ROB DECOSTA
Drawn By:	JA
Approved By:	JAMIE HADERLIE
Origination Date:	07/17/25

No	BY	REVISION	DATE
1	JA	TAKE TO 100	08/25/25

SHEET NAME

HVAC CONTROLS CONDUIT AND SENSOR ABOVE CEILING PLAN

DRAWING NUMBER

6342

SHEET NUMBER

ZM701

SCALED FOR ORIGINAL DRAWING AT 22" X 34"

CLIENT

CITY OF RIVIERA BEACH
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REGISTRATION

STATE OF FLORIDA
CORINNE LOHRUM
AR 96099
REGISTERED ARCHITECT

DRAWING HISTORY

No.	DATE	DESCRIPTION

CONSULTANT

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90% CONSTRUCTION DOCUMENTS / PERMIT SET

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10/14/2025

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FIRING RANGE EQUIPMENT DRAWINGS

SHEET NUMBER

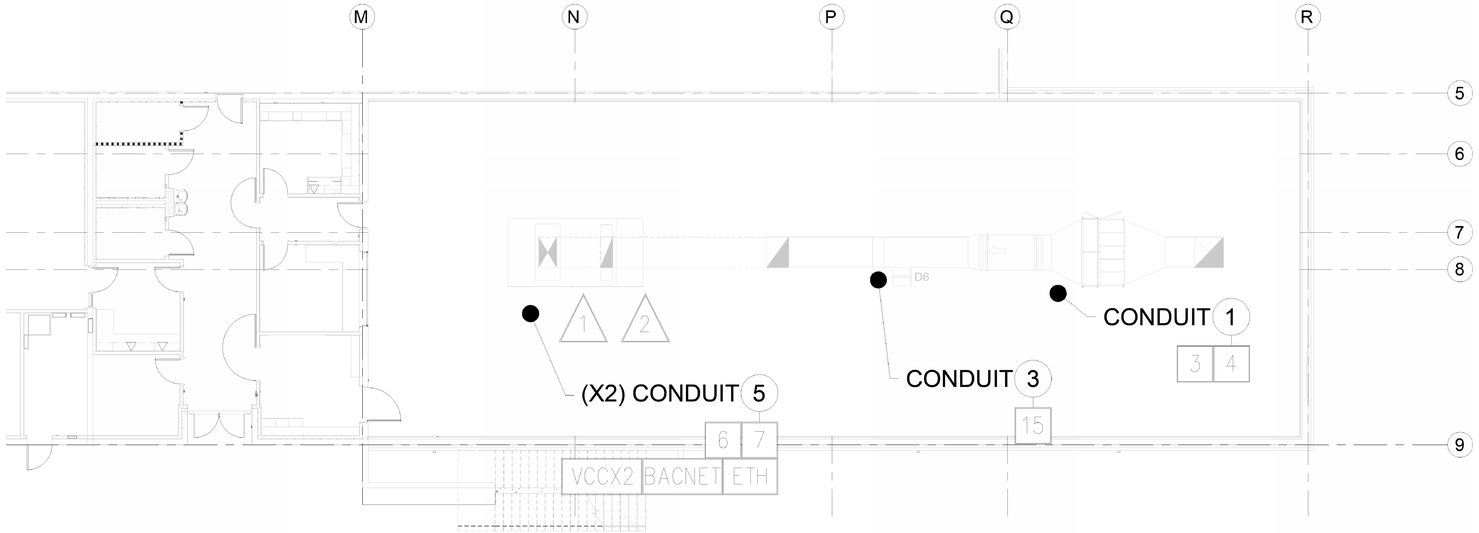
Q1.35E

KEYED NOTES (SHEET ZM702)

1. SITE CONTRACTOR IS RESPONSIBLE FOR RUNNING BUILT IN GREENHECK SUPPLY DUCT PRESSURE SENSOR, GREENHECK SUPPLY DUCT TEMPERATURE SENSOR, GREENHECK SPACE TEMPERATURE SENSOR, AND ANY OTHER INCLUDED OR NECESSARY GREENHECK UNIT SENSORS AS REQUIRED FOR GREENHECK STARTUP. THESE SENSORS SHALL BE INSTALLED PRIOR TO GREENHECK SERVICE PERFORMING STARTUP ON THE GREENHECK UNIT. ATI WILL INSTALL SUPERVISORY CONTROLS AFTER GREENHECK CERTIFIED STARTUP.
2. FOR GREENHECK STARTUP ALL SUPPLY, RETURN, OUTSIDE AIR, AND BYPASS DAMPERS SHALL BE IN THEIR FULLY OPEN POSITIONS
3. SEE ZM704.1–ZM704.3 FOR CONDUIT AND SENSOR DETAILS
4. PLACE CONDUITS IN THE LOCATIONS INDICATED FOR ACCURATE WIRING

GENERAL NOTES (SHEET ZM702)

- # CONDUIT NUMBER
- # SENSOR ID
- 1 SEE SCHEDULES SHEET FOR FILL, QTY, AND TERMINATION STYLE



1 ZM702 VENTILATION ROOF PLAN
SCALE - 1/8" = 1'-0"

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HVAC CONTROLS CONDUIT AND SENSOR ROOF PLAN

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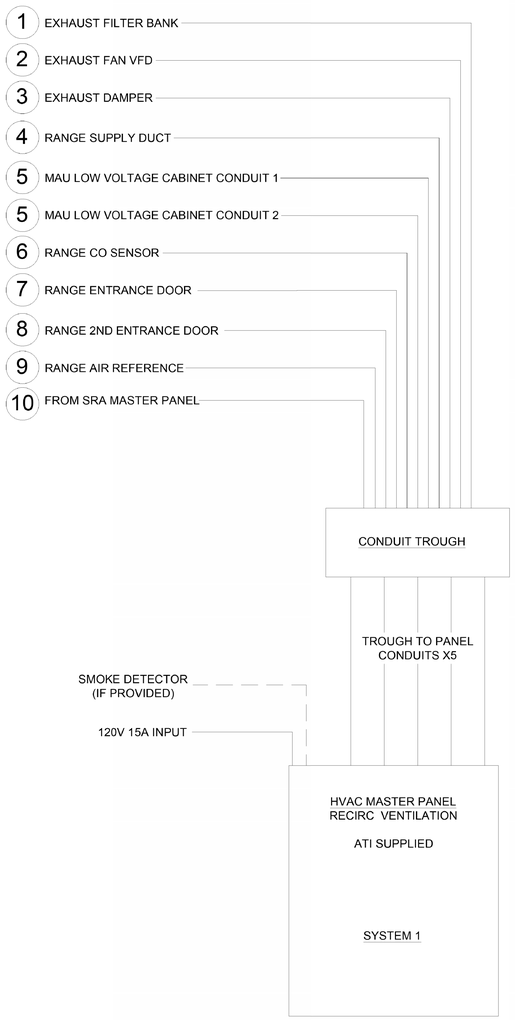

HVAC CONTROLS CONDUIT SCHEMATIC

NOTE:
- -ALL CONDUITS 3/4 INCH UNLESS SPECIFIED OTHERWISE
- -PROVIDE A MINIMUM OF 5 CONDUITS BETWEEN TROUGH AND EACH CONTROL PANEL
- -PROVIDE A MINIMUM OF 2 CONDUITS BETWEEN CONTROL PANELS, IF MULTIPLE CONTROL PANELS ARE PRESENT
- -PROVIDE EACH CONTROL PANEL WITH 120V 15AMP 1ϕ SERVICE, ON LEFT HAND SIDE
- -IF INTEGRATION WITH SITE SMOKE DETECTORS IS REQUIRED, RUN ADDITIONAL CONDUIT FROM FIRE SYSTEM TO HVAC SYSTEM, AS DIRECTED BY FIRE SYSTEM INSTALLERS
- -SEE CONDUIT AND SENSOR PLANS FOR CONDUIT PLACEMENT
- -SEE CONDUIT SCHEDULE AND RANGE DETAILS FOR CONDUIT TERMINATIONS AND CONDUIT FILL

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NOTE:
-ALL 4 CONDUCTOR CABLE IS GENESIS 22151009, 18AWG, STRANDED, SHIELDED, CMR RATED, AND SUNLIGHT RESISTANT, OR EQUIVALENT
-ALL 6 CONDUCTOR CABLE IS GENESIS 22161009, 18AWG, STRANDED, SHIELDED, CMR RATED, AND SUNLIGHT RESISTANT, OR EQUIVALENT
-ALL COMMUNICATION CABLE IS CAT5E OR GREATER, 4 PAIR UTP, 24 AWG, CMR OR PLENUM RATED AND SUNLIGHT RESISTANT, OR EQUIVALENT
-ALL 2 CONDUCTOR CABLE IS BELDEN 82760, 18 AWG, TWISTED PAIR, PLENUM RATED
-LEAVE ENOUGH WIRE TO EXTEND 24" BEYOND WHERE THE SENSOR IS LOCATED ON THE PLANS
-FOR WIRE PULLS TO AAON UNIT, LEAVE ENOUGH WIRE TO PULL THROUGH THE ENTIRE LENGTH OF UNIT +24"

CONDUIT SCHEDULE RANGE 1

CONDUIT	QTY	DECRIPTION	FROM	TO	FILL	SENSOR(S)
1	1	TO EXHAUST FILTER BANK. TERMINATE WITH A 36" STUB UP, WITHIN 12" NEAR FILER BANK AS INDICATED ON PLANS.	TROUGH	EXHAUST FILTER BANK	(1) 18/6	3 4
2	1	TO EXHAUST FAN VFD, TERMINATE TO 4 SQUARE BOX WITH BLANK, 6-12" FROM VFD	TROUGH	EXHAUST FAN VFD	(1) 18/4, (1) CAT5E	13 14
3	1	TO EXHAUST DAMPER, TERMINATE WITH A 36" STUB UP WITHIN 12" OF EXHUAST DAMPER, AS INDICATED ON THE PLANS	TROUGH	EXHAUST DAMPER	(1) 18/6	15
4	1	TO RANGE SUPPLY DUCT, MOUNT ON DUCT, AT CLOSEST POINT IN THE RANGE FROM MAU, TERMINATE TO A 4 SQUARE BOX WITH A BLANK.	TROUGH	RANGE SUPPLY DUCT	(2) 18/4, (2) 18/6 (1) 1/4" PNEUMATIC TUBE	5 LOW 8 9 10 11
5	2	TO MAU, TERMINATE IN LOW VOLTAGE CABINET	TROUGH	MAU	(1) 18/6, (1) 18/4 (2) 18/2, (2) CAT5E	6 7 AAON VCCX2 & BACNET & SRA LINK
6	1	TO RANGE CO SENSOR BOX, TERMINATE TO 4 SQUARE BOX WITH SINGLE GANG MUD RING, 48" AFF, BEHIND FIRING LINE, SHOOTERS LEFT	TROUGH	RANGE CO SENSOR	(1) 18/4	2
7	1	TO RANGE ENTRANCE DOOR, TERMINATE TO 4 SQUARE BOX WITH BLANK, 6" ABOVE DOOR FRAME, ON THE RANGE SIDE, ON HANDLE SIDE OF ENTRANCE EXTERIOR DOOR	TROUGH	RANGE ENTRANCE DOOR	(1) 18/4	1
8	1	TO RANGE ENTRANCE DOOR, TERMINATE TO 4 SQUARE BOX WITH BLANK, 6" ABOVE DOOR FRAME, ON THE RANGE SIDE, ON HANDLE SIDE OF ENTRANCE EXTERIOR DOOR	TROUGH	RANGE DOUBLE DOOR	(1) 18/4	12
9	1	TO RANGE AIR REFERENCE AREA, TERMINATE IN A 4 SQUARE BOX WITH SINGLE GANG MUD RING, LOCATE AWAY FROM DOORS AND HVAC DIFFUSERS ON THE CEILING	TROUGH	RANGE AIR REFERENCE AREA	(1) 1/4" PNEUMATIC TUBE	5 HIGH
10	1	TO SMART RANGE AXIS MASTER PANEL, TERMINATE ON OR IN SRA MASTER PANEL	TROUGH	SMART RANGE AXIS MASTER PANEL	(1) CAT5E	N/A

SENSOR SCHEDULE RANGE 1

QTY	DECRIPTION	MFR	MFR PN	FED FROM CONDUIT	WIRE TYPE	SENSOR ID
1	RANGE ENTRANCE DOOR MAGNETIC SENSOR	RESIDEO	7939WG-WH	7	(1) 18/4	1
1	RANGE CO SENSOR	KELE	KCOC-W-V-LCD	6	(1) 18/4	2
1	BAG FILTER SENSOR	SETRA	2651005WDACT1C	1	(1) 18/6	3
1	HEPA FILTER SENSOR	SETRA	2651005WDACT1C	1		4
1	RANGE PRESSURE SENSOR LOW/HIGH	SETRA	2651005WDACT1C	4 9	1/4" PNEUMATIC TUBE	5 LOW 5 HIGH
1	SUPPLY FAN STATUS SENSOR	AUTOMATION DIRECT	ACSN250-AE-S	5	(1) 18/4	6
1	OUTSIDE AIR FILTER SENSOR	SETRA	2651005WDACT1C	5	(1) 18/4	7
1	BYPASS DAMPER ACTUATOR	BELIMO	AFB24-SR	4	(1) 18/6	8
1	RETURN DAMPER ACTUATOR	BELIMO	AFB24-SR	4	(1) 18/6	9
1	SUPPLY DUCT PRESSURE SENSOR	SETRA	2651005WDACT1C	4	(1) 18/4	10
1	SUPPLY AIR TEMP/HUMIDITY	SIEMENS	QFM2160U	4	(1) 18/4	11
1	2ND RANGE ENTRANCE DOOR MAGNETIC SENSOR	RESIDEO	7939WG-WH	8	(1) 18/4	12
1	EXHAUST FAN VFD STATUS/RUN ENABLE	RIB	RIBXLCJF	2	(1) 18/4	13
1	EXHAUST FAN VFD COMM MODULE	ABB	FBIP-21	2	(1) CAT5E	14
1	EXHAUST DAMPER ACTUATOR	BELIMO	AFB24-SR	3	(1) 18/6	15

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SHEET NAME
HVAC CONTROLS CONDUIT AND SENSOR SCHEDULE

DRAWING NUMBER
6342

SHEET NUMBER
ZM704

SCALED FOR ORIGINAL DRAWING AT 22" X 34"

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REGISTRATION

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FIRING RANGE EQUIPMENT DRAWINGS

SHEET NUMBER
Q1.38E

HVAC PANEL WIRING

SENSOR NAME	TERMINAL#	TERMINAL COLOR	SIGNAL	WIRE	WIRE COLOR	CONDUIT FEED	SENSOR(S)
ENTRANCE DOOR	1	RED	+24	18/4	RED	(7)	1
	2	WHITE	SIGNAL		WHITE		
2ND ENTRANCE DOOR	3	RED	+24	18/4	RED	(8)	12
	4	WHITE	SIGNAL		WHITE		
TEMP/HUMIDITY SENSOR	5	GREEN	TEMP SIGNAL 0-10V	18/4	GREEN	(4)	11
	6	WHITE	HUMIDITY SIGNAL 0-10V		WHITE		
	7	RED	+24		RED		
	8	BLACK	DC GRND		BLACK		
CARBON MONOXIDE SENSOR	9	GREEN	CO SIGNAL 0-10V	18/4	GREEN	(6)	2
	10	WHITE	DC GRND		WHITE		
	11	RED	+24		RED		
	12	BLACK	DC GRND		BLACK		
OUTSIDE AIR FILTER	13	RED	+24	18/4	RED	(5)	7
	14	BLACK	DC GRND		BLACK		
	15	WHITE	OUTSIDE AIR FILTER SIGNAL 0-10V		WHITE		
SUPPLY FAN STATUS	16	BROWN	+24	18/4	BROWN	(5)	6
	17	GREEN	SIGNAL		GREEN		
BYPASS DAMPER	18	BLUE	FEEDBACK SIGNAL 0-10V	18/6	BLUE	(4)	8
	19	GREEN	DRIVE SIGNAL 0-10V		GREEN		
	20	WHITE	DC GRND		WHITE		
	21	ORANGE	+24		BROWN		
	22	RED	+24		RED		
	23	BLACK	DC GRND		BLACK		
RETURN DAMPER	24	BLUE	FEEDBACK SIGNAL 0-10V	18/6	BLUE	(4)	9
	25	GREEN	DRIVE SIGNAL 0-10V		GREEN		
	26	WHITE	DC GRND		WHITE		
	27	ORANGE	+24		BROWN		
	28	RED	+24		RED		
	29	BLACK	DC GRND		BLACK		
EXHAUST DAMPER	30	BLUE	FEEDBACK SIGNAL 0-10V	18/6	BLUE	(3)	15
	31	GREEN	DRIVE SIGNAL 0-10V		GREEN		
	32	WHITE	DC GRND		WHITE		
	33	ORANGE	+24		BROWN		
	34	RED	+24		RED		
	35	BLACK	DC GRND		BLACK		

HVAC PANEL WIRING

SENSOR NAME	TERMINAL#	TERMINAL COLOR	SIGNAL	WIRE	WIRE COLOR	CONDUIT FEED	SENSOR(S)
EXHAUST/RETURN FILTERS	36	BLUE	HEPA FILTER SIGNAL 0-10V	18/6	BLUE	(1)	3 4
	37	GREEN	BAG FILTER SIGNAL 0-10V		GREEN		
	38	WHITE	DC GRND		WHITE		
	39	ORANGE	+24		BROWN		
	40	RED	+24		RED		
	41	BLACK	DC GRND		BLACK		
N/A	42	RED	+24	18/4	RED	N/A	N/A
	43	WHITE	SIGNAL		WHITE		
EXHAUST FAN VFD	44	GREEN	+24	18/4	GREEN	(2)	13 14
	45	WHITE	DC GRND		WHITE		
	46	RED	VFD ENABLE SIGNAL		RED		
	47	BLACK	CURRENT SENSOR FB SIGNAL		BLACK		
N/A	48	RED	+24	18/6	RED	N/A	N/A
	49	WHITE	SIGNAL		WHITE		
SMOKE DETECTOR/FIRE	80	GREEN	SIGNAL	BY OTHERS			
	81	WHITE	+24				
	82	RED	+24				
	83	BLACK	DC GRND				
SUPPLY DUCT PRESSURE	84	GREEN	SUPPLY DP SIGNAL 0-10V	18/4	GREEN	(4)	10
	85	WHITE	+24		WHITE		
	86	RED	+24		RED		
	87	BLACK	DC GRND		BLACK		

NOTE:
*MAU OUTSIDE AIR DAMPER WIRING FOR EXTERNAL CONTROL DIRECT WIRE TO PLC ANALOG OUTPUT 1 TERMINAL 2.3. SEE FIELD WIRING PACKET FOR ADDITIONAL DETAILS.

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SEQUENCE OF OPERATIONS

Startup Sequence:

- Dampers for the system open to their preset running positions as defined on commissioning
- Start command sent to each Packaged unit
- Package unit reports start sequence activated
- Packaged unit actuates internal dampers to running positions as defined on commissioning
- Package unit starts its Supply Fan
- Once Supply Fan current exceeds minimum running current, corresponding return fan will start
- Supply and Return fans will ramp up and begin controlling supply duct and range pressures.

Normal operation:

Supply fan

- Will regulate its speed to achieve the desired supply duct pressure and air flow across the firing line.

Return fan

- Will regulate its speed in to achieve the desired range pressure required to create proper air flow across the firing line.

Package unit

- Will operate in mode of operation selected on the control screen.
- Heat mode:
  - Temperature will be increased if the discharge air temperature goes below the desired setpoint.
- Cooling Mode:
  - Temperature will decrease if the discharge air temperature goes above the desired setpoint.
  - Humidity is controlled by drawing moisture out of the air using the cooling coils to drop the air temperature below the dew point, then using the package unit re-heat function to achieve desired setpoint.
- Fan Only:
  - The supply and return fan will regulate as normal.
  - Humidity and temperature are not controlled in this mode.

Events, Alarms and Shutdowns:

Door Opened

- The fan will stop modulating for a period of time to eliminate potential for incorrect control due to excess air entering through the door
- If the door is left open for longer than the system allows, the system will either display a warning or shutdown depending upon how the door is configured

CO levels

- If CO levels exceed the warning or alarm threshold, a warning will appear on the control screen, and do not shoot will be illuminated on the control screen

Supply Fan failure

- If a supply fan fails to provide sufficient current feedback, the system will shutdown

Return Fan failure

- If a return fan fails to provide sufficient current feedback, the system will shutdown

Safe to Shoot

- If the range can achieve at least 50% of the desired pressure for a preset amount of time, the Safe To Shoot indication will turn on. If the pressure falls below the lower threshold, the system will shutdown

Filter Levels

- If the filter pressure differential exceeds the alarm setpoint, meaning the filter is starting to reach the end-of-life, an alarm indication will appear on the control screen indicating this condition.
- If the filter pressure differential exceeds the fault setpoint, meaning the filter has reached end-of-life, a alarm will appear on the control screen indicating this condition

Smoke detect

- If configured a smoke detection event occurs, the system will shutdown

CONTROL SYSTEM OPTIONS

1	# OF SYSTEMS
I	PARALLEL OR INDEPENDENT
	CUSTOM MASTER HVAC PANEL
	CUSTOM HVAC SLAVE PANEL
	EXTRA OR CUSTOM SENSORS
	PURGE
X	RECIRC
X	GAS HEAT
	ELECTRIC HEAT
	HEAT PUMP
	RECOVERY WHEEL
X	VARIABLE CAPACITY SCROLL COMPRESSOR
X	GREENHECK PANEL REQUIRED
X	COMPRESSOR OFFLAND LOGIC
	FREEZE PROTECTION
	OTHER CUSTOM NOTES AS REQUIRED
	CUSTOM CODE REQUIRED

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PROJECT STATUS

100% SUBMITTAL

PROJECT NAME

RIVIERA BEACH PD

Project Manager:	BRIAN SANDERS
Territory Manager:	AARON LUDWIG
Project Engineer:	ROB DECOSTA
Drawn By:	JA
Approved By:	JAMIE HADERLIE
Origination Date:	07/17/25

No	BY	REVISION	DATE
1	JA	TAKE TO 100	08/25/25

SHEET NAME

SOO AND CONTROL SYSTEM OPTIONS

DRAWING NUMBER

6342

SHEET NUMBER

ZM706

SCALED FOR ORIGINAL DRAWING AT 22" X 34"

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DRAWING HISTORY

№	DATE	DESCRIPTION

CONSULTANT

PROJECT STATUS

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10/14/2025

PROJECT NAME

RBPD EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION

2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER

1007657.00

SHEET TITLE

FIRING RANGE EQUIPMENT DRAWINGS

SHEET NUMBER

Q1.40E

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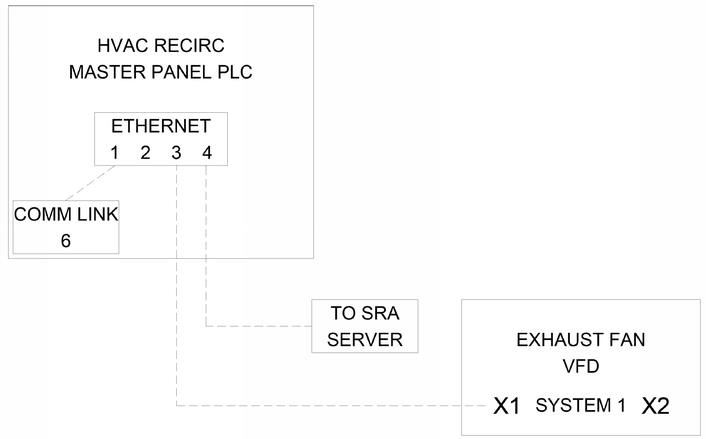
NOTE:
-ALL WIRING CAT5E OR GREATER. TERMINATE w/RJ45 PLUGS. TEST FOR CONTINUITY AND BAND WIDTH.
-ALL COMMUNICATION CABLE IS CAT5E OR GREATER, 4 PAIR UTP, 24 AWG, CMR OR PLENUM RATED, SUNLIGHT RESISTANT, OR EQUIVALENT



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Project Engineer:	ROB DECOSTA
Drawn By:	JA
Approved By:	JAMIE HADERLIE
Origination Date:	07/17/25

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1	JA	ADD ELECTRICAL	04/24/24

SHEET NAME
HVAC RECIRC NETWORK DIAGRAM ETHERNET

DRAWING NUMBER
6342

SHEET NUMBER
ZM707.1

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RBPD EVIDENCE & FIRE RANGE BUILDING

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2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

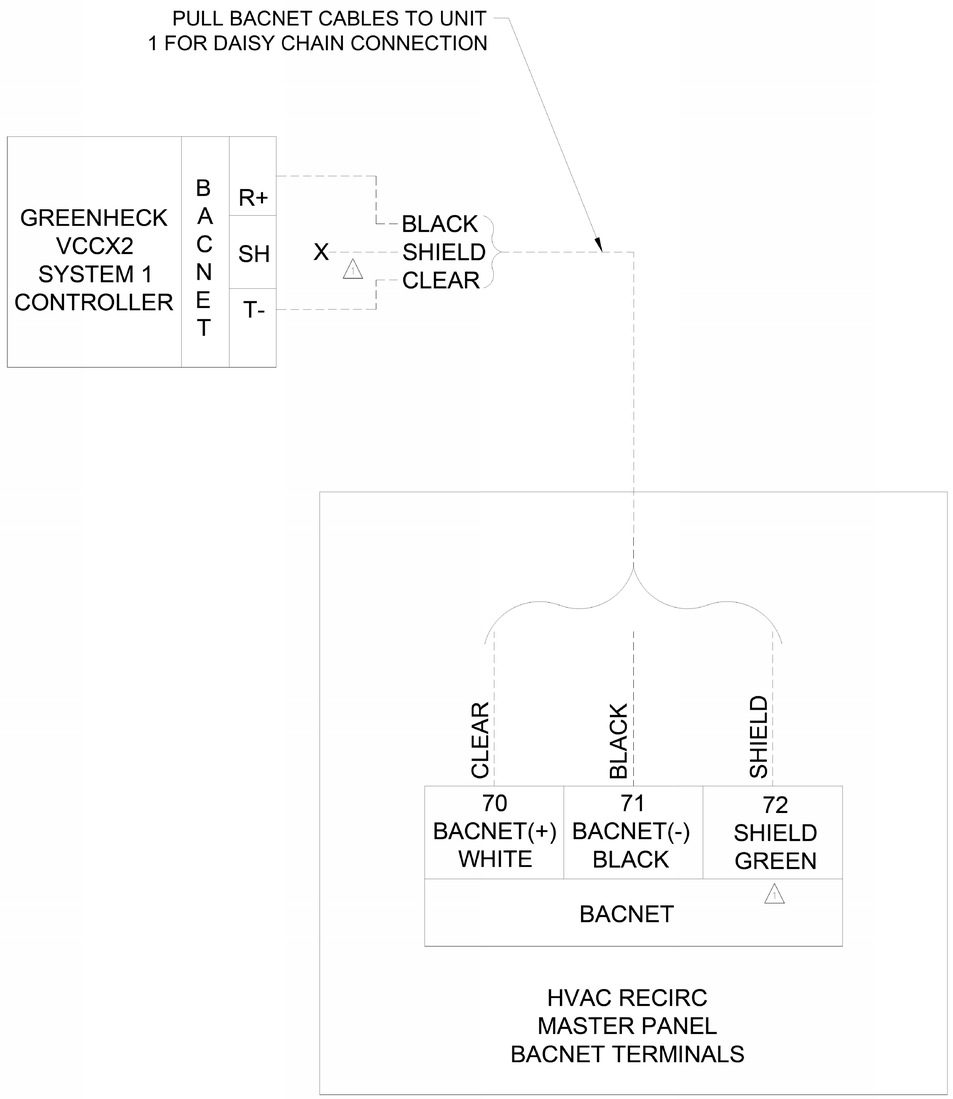
SHEET TITLE
FIRING RANGE EQUIPMENT DRAWINGS

SHEET NUMBER
Q1.41E

NOTE:
- -ALL 2 CONDUCTOR CABLE IS BELDEN 82760, 18 AWG, TWISTED PAIR, PLENUM RATED
- -BACNET CONNECTIONS ARE DAISY CHAINED
- -TERMINATE LOOP START/END WITH 120 Ω RESISTORS

1 SHIELD WIRES ONLY CONNECTED ON ONE SIDE

2 DAISY CHAIN BACNET CONNECTION THROUGH MASTER PANEL



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Territory Manager:	AARON LUDWIG
Project Engineer:	ROB DECOSTA
Drawn By:	JA
Approved By:	JAMIE HADERLIE
Origination Date:	07/17/25

No	BY	REVISION	DATE
1	JA	ADD ELECTRICAL	04/24/24

SHEET NAME
HVAC RECIRC NETWORK DIAGRAM BACNET

DRAWING NUMBER
6342

SHEET NUMBER
ZM707.2

SCALED FOR ORIGINAL DRAWING AT 22" X 34"

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PROJECT NAME
RBPD EVIDENCE & FIRE RANGE BUILDING

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2125 AVENUE S, RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
FIRING RANGE EQUIPMENT DRAWINGS

SHEET NUMBER
Q1.42E

NOTE:
-ALL 2 CONDUCTOR CABLE IS BELDEN 82760, 18 AWG, TWISTED PAIR, PLENUM RATED
-COMM LINK CONNECTIONS ARE DAISY CHAINED
-TERMINATE LOOP START/END WITH 120 Ω RESISTORS

1 SHIELD WIRES ONLY CONNECTED ON ONE SIDE

2 DAISY CHAIN COMM LINK CONNECTION THROUGH MASTER PANEL

PULL COMM LINK CABLES TO UNIT
1 FOR DAISY CHAIN CONNECTION

GREENHECK VCCX2 SYSTEM 1 CONTROLLER	COMM LINK LOOP	
		T-
	X 1	SH
		R+

BLACK
SHIELD
CLEAR

CLEAR	BLACK	SHIELD
R+	SH	T-
AAON COMM LINK 6 1		

HVAC RECIRC
MASTER PANEL
AAON COMM LINK
TERMINALS

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Project Engineer:	ROB DECOSTA
Drawn By:	JA
Approved By:	JAMIE HADERLIE
Origination Date:	07/17/25

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1	JA	ADD ELECTRICAL	04/24/24

SHEET NAME
HVAC RECIRC NETWORK DIAGRAM AAON COMM LINK

DRAWING NUMBER
6342

SHEET NUMBER
ZM707.3

SCALED FOR ORIGINAL DRAWING AT 22" X 34"

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PROJECT NUMBER
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SHEET NUMBER
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GENERAL STRUCTURAL NOTES

DESIGN CRITERIA

D1 ALL WORK SHALL CONFORM TO AT LEAST THE MINIMUM STANDARDS OF THE FLORIDA BUILDING CODE, EIGHTH EDITION (2023)

D2 DESIGN LOADS PER FLORIDA BLDG. CODE,
SEE PLAN SHEETS FOR FLOOR AND ROOF DESIGN LOADS
WIND DESIGN PER ASCE 7-22
V=200 MPH (3 SECOND ULTIMATE GUST); Vservice = 155 MPH
RISK CATEGORY IV, EXPOSURE C, ENCLOSED BUILDING
h = 29'-0"; H = 32'-0"
qh (ult) = 99.6 PSF; qh (asd) = 59.9 PSF
a = 10'-3"
SEE THIS SHEET FOR WALL CLADDING PRESSURES
AND FOR ROOF UPLIFT PRESSURES

D3 FOUNDATION DESIGN RECOMMENDATIONS:
FOUNDATIONS ARE DESIGNED FOR AN ALLOWABLE BEARING CAPACITY OF 3000 PSF PER THE FINAL REPORT AND RECOMMENDATIONS PREPARED BY UES DATED OCTOBER 3, 2025.
GC TO FAMILIARIZE THEMSELVES WITH THE REPORT AND RECOMMENDATIONS FOR PREPARING THE BUILDING PAD.

D4 TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE STRUCTURAL PLANS AND SPECIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE LATEST EDITION.

GENERAL

G1 THE GENERAL CONTRACTOR SHALL REVIEW AND DETERMINE THAT DIMENSIONS ARE COORDINATED BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO FABRICATION OR START OF CONSTRUCTION.

G2 THE GENERAL CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, THE WORK PERSONS, AND OTHER PEOPLE DURING CONSTRUCTION. HE SHALL SUPERVISE AND DIRECT THE WORK AND BE RESPONSIBLE FOR ALL CONSTRUCTION.

G3 NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED OR OTHERWISE REDUCED IN STRENGTH.

G4 THE GENERAL CONTRACTOR SHALL COORDINATE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ANCHORED, EMBEDDED, SUPPORTED ITEMS WHICH AFFECT THE STRUCTURAL DRAWINGS AND NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.

G5 ALL WINDOWS, DOORS, AND LOUVERS SHALL BE INSTALLED PER THEIR DADE COUNTY PRODUCT APPROVAL REQUIREMENTS.

G6 SUBMIT SHOP DRAWINGS IN ELECTRONC FORM FOR APPROVAL. PAPER COPIES WILL NOT BE REVIEWED. FINAL SEALED SHOP DRAWINGS AND CALCULATIONS TO BE SUBMITTED IN PRINTED FORM FOR SUBMISSION TO THE BUILDING DEPARTMENT AFTER INCORPORATING ALL COMMENTS FROM THE A/E DESIGN TEAM.

SLAB ON GRADE

S1 REFER TO THE GEOTECHNICAL REPORTS NOTED ABOVE FOR PROPER PREPARATION OF THE SUBGRADE FOR THE PROJECT.

S2 CONTROL JOINTS / SAW JOINTS FOR THE SLAB ON GRADE SHALL BE SPACED NO FARTHER THAN 16' ON CENTER IN BOTH DIRECTIONS. THE PANELS SHALL BE CLOSE TO SQUARE. SUBMIT A PROPOSED JOINT PLAN FOR A/E APPROVAL.

CONCRETE AND REINFORCING

C1 CONCRETE WORK SHALL CONFORM TO ACI CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-19)

C2 ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH & PROPERTIES AS FOLLOWS:

		SLUMP	MAX. W/C
TILT-UP PANELS	4000 PSI	5±1"	0.55
FOUNDATIONS	3000 PSI	5±1"	0.58
FLOORS	4000 PSI	5±1"	0.54

C3 CONCRETE MIX DESIGN SUBMITTALS MUST INCLUDE THE AREA IN WHICH THE CONCRETE IS TO BE PLACED (e.g. FOUNDATIONS, SLAB-ON-GRADE, FILLED CELLS, COLUMNS, etc.). FAILURE TO DO SO WILL CAUSE DELAY AND/OR REJECTION OF SUBMITTALS.

C4 REBARS SHALL CONFORM TO ASTM-615 GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.

C5 MIMIMUM COVER FOR REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED. REFER TO A.S5.0 FOR TILT-UP PANELS.

FOOTINGS	3"
SLABS ON GRADE	1 1/2" FROM TOP
BEAMS	1 1/2" (ON TIES)
COLUMNS	1 1/2" (ON TIES)

C6 SPLICES AND ANCHORAGE OF REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED.

WELDED WIRE FABRIC	6"
ALL OTHER	SEE LAP TABLE

C7 REINFORCEMENT IN WALLS, FOOTINGS AND BEAMS SHALL BE CONTINUOUS AND LAPPED AS SHOWN ON NOTE M11. HOOK AND LAP ALL CORNER AND INTERSECTING BARS. (SEE TYPICAL DETAILS)

C8 TERMINATE ALL DISCONTINUED ELEVATED SLAB TOP BARS WITH A 180 DEGREE STANDARD HOOK UNLESS OTHERWISE NOTED.

C9 CONTINUOUS TOP BARS SHALL BE SPLICED AT MIDSPAN. CONTINUOUS BOTTOM BARS SHALL BE SPLICED AT CENTER-LINE OF SUPPORTS (OR AS SHOWN ON TYPICAL DETAILS).

C10 AT CHANGES IN DIRECTION OF CONCRETE WALLS, STRIP FOOTINGS AND GRADE BEAMS PROVIDE CORNER BARS AT SAME SIZE AND SPACING AS HORTIZONTAL BARS. (REFER TO B/S4.0)

C11 SUBMIT CONCRETE MIX DESIGN FOR APPROVAL.

STRUCTURAL STEEL

SS1 GENERAL CONTRACTOR SHALL ENGAGE A CERTIFIED TESTING AGENCY TO PERFORM INDUSTRY STANDARD INSPECTIONS TO ENSURE CONFORMANCE WITH PLANS AND SPECIFICATIONS (IF PROVIDED). SUBMIT REPORTS TO ARCHITECT AND ENGINEER.

SS2 STEEL WORK SHALL CONFORM TO THE AISC "SPECIFICATIONS" FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS", LATEST EDITION.

SS3 STEEL TUBING SHALL CONFORM TO ASTM A500 GRADE C.

SS4 STRUCTURAL W, C AND MC SHAPES SHALL BE TO ASTM A992, Fy=50KSI. OTHER SHAPES, Ls, PLATES SHALL BE TO ASTM A572, GR. 50 ALL STRUCTURAL STEEL SHALL BE DOMESTICALLY PRODUCED.

SS5 BRACE AND MAINTAIN ALL STEEL IN ALIGNMENT UNTIL OTHER PARTS OF CONSTRUCTION NECESSARY FOR PERMANENT SUPPORT ARE COMPLETED. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING TEMPORARY SHORING AS REQUIRED FOR THE STABILITY OF THE STEEL FRAME UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN COMPLETED AND BUILDING IS ENCLOSED.

SS6 ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF "THE STANDARD CODE FOR WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY. WELDING ELECTRODES SHALL BE E70XX-LOW HYDROGEN FOR SHIELD AND METAL ARC WELDING. ALL WELDING TO BE PERFORMED BY CERTIFIED WELDERS.

SS7 GROUT FOR COLUMN BASE PLATES AND PRESET BEARING PLATES SHALL BE NON-SHRINK, NON-METALLIC GROUT. (5000 PSI MIN)

SS8 SUBMIT SHOP DRAWINGS INDICATING ALL SHOP AND ERECTION DETAILS INCLUDING PROFILES, SIZES, SPACING AND LOCATIONS OF STRUCTURAL MEMBERS, CONNECTION ATTACHMENTS, FASTENERS, LOADS AND TOLERANCES.

SS9 ALL WELDED CONN. SHALL BE 1/4" FILLET ALL AROUND, UNO. ALL BOLTED CONN. SHALL BE 3/4"DIA. A325 BOLTS, UNO.

SS10 ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. GALVANIZE MEMBERS TO ASTM A123/A123M; PROVIDE SPECIAL HIGH GRADE GALVANIZED COATING PER ASTM B6. MINIMUM COATING THICKNESS IS 1.25 OZ / SQUARE FT FOR ALL SURFACES

EXPANSION ANCHORS

EA1. CARBON STEEL EXPANSION ANCHORS SHALL HAVE A ONE PIECE ANCHOR BODY WITH A LENGTH IDENTIFICATION CODE. THE ANCHORS SHALL HAVE AN EXPANSION MECHANISM WHICH CONSISTS OF A PAIR OF INTERLOCKING INDEPENDENT WEDGES. CARBON STEEL COMPONENTS SHALL BE PLATED ACCORDING TO ASTM SPECIFICATION B 633. EXPANSION ANCHORS MUST MEET THE DESCRIPTION IN FEDERAL SPECIFICATION FF-S-325 FOR CONCRETE EXPANSION ANCHORS.

EA2. EXPANSION ANCHORS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

EA3. EXPANSION ANCHORS SHALL HAVE A MINIMUM ULTIMATE TENSILE AND SHEAR LOADS (LBS) AS SHOWN IN SCHEDULE BELOW:

DIA.	EMBEDMENT (IN)	MIN. EDGE DIST. MIN. SPACING	f'c=3,000 psi TENSILE	f'c=3,000 psi SHEAR	f'c=4,000 psi TENSILE	f'c=4,000 psi SHEAR	INSTALLATION TORQUE (ft/lbs)
1/2"	2 1/4" 3 1/2" 6"	6 3/4"	4925 8000 8650	7360 9200 9200	5450 9000 9500	7360 9200 9200	65
5/8"	2 3/4" 4" 7"	8"	7000 10670 13000	11500 14200 14200	8000 12350 14000	11500 14200 14200	110
3/4"	3 1/4" 4 3/4" 8"	11 1/4"	8700 15500 18500	15500 19200 19200	10000 18000 22000	15500 19200 19200	235
1"	4 1/2" 6" 9"	13 1/2"	15200 22500 28750	28500 34500 34500	17500 26500 32500	30500 34500 34500	450

EXTERIOR LIGHT GAGE METAL FRAMING

MS1 DESIGN OF LIGHT GAGE METAL FRAMING AND THEIR CONNECTIONS TO THE SUPPORTING STRUCTURE IS A DELEGATED ITEM FOR THIS PROJECT. ALL STUD SIZES SHOWN SHALL BE USED FOR BID PURPOSES BUT THE FINAL DESIGN OF THE METAL FRAMING ELEMENTS SHALL BE BY THE SPECIALTY ENGINEER OF RECORD.

MS2 MINIMUM GAGE OF MATERIAL SHALL BE 18 GAGE WHERE SHEATHING IS ATTACHED. (I.E. SOFFIT STUDS, ROOF STUDS, ETC.). ALL MATERIAL TO BE GALVANIZED G90.

MS3 SPECIALTY ENGINEER SHALL HAVE A MINIMUM OF 5 YEARS EXPERIENCE IN SIMILAR STRUCTURAL DESIGNS.

MS4 PLANS SHALL SHOW ALL PERMINENT BRACING AND BLOCKING REQUIREMENTS.

MS5 SEE NOTE G6 ON THIS SHEET REGARDING SUBMISSION REQUIREMENTS.

TILT-UP PANELS

TU1 ALL PANELS ARE VIEWED FROM THE INSIDE

PANEL THICKNESS SHALL BE AS INDICATED IN THE SCHEDULE. SPECIAL ATTENTION MUST BE GIVEN THE LOCATION AND PLACEMENT OF THE REINFORCING

TU2 REFER TO THE ARCHITECTURAL DRAWINGS FOR FINISH REQUIREMENTS, CHAMFERS, REVEALS, ETC.

TU3 PANELS SHALL NOT BE LIFTED UNTIL THE CONCRETE HAS ATTAINED THE MINIMUM MODULUS OF RUPTURE AND COMPRESSIVE STRENGTH AS REQUIRED BY THE LIFTING ENGINEER.

TU4 THE CONTRACTOR SHALL PROVIDE DESIGN FOR THE LIFT INSERTS AND ANY ADDITIONAL REINFORCING STEEL REQUIRED FOR THE LIFTING OPERATION. HOWEVER NO ADDITIONAL REINFORCING SHALL BE ADDED WITHOUT THE EXPRESSED APPROVAL OF THE ENGINEER. THE DESIGNERS OF THE LIFTING INSERTS MUST CONSIDER THE REINFORCING ALREADY PRESENT IN THE PANELS AS INDICATED IN THIS SET OF CONSTRUCTION DRAWINGS.

TU5 THE CONTRACTOR SHALL CHECK ALL PANEL DIMENSIONS, PLATE LOCATIONS, AND DETERMINE THE LOCATIONS OF ALL OPENINGS REQUIRED. NO PANEL WORK SHALL BE PERFORMED WITHOUT THE CONTRACTOR'S APPROVAL OF ALL THE ABOVE. THE CONTRACTOR IS INDICATING THAT HE HAS REVIEWED THE ABOVE AND APPROVES OF THE PANEL DRAWINGS FOR ACCURACY BY THE COMMENCEMENT OF PANEL CONSTRUCTION EVEN IF FORMAL STAMPED APPROVAL HAS NOT BEEN INDICATED ON THOSE DRAWINGS.

TU6 MISCELLANEOUS OPENINGS MAY BE REQUIRED FOR FIRE LINES, PLUMBING, SANITARY LINES, ELECTRICAL CONDUITS, ETC. CORE DRILLING AFTER ERECTION OF THE PANELS MUST HAVE THE APPROVAL OF THE ARCHITECT AND ENGINEER PRIOR TO PERFORMING THE WORK.

TU7 THE REINFORCING STEEL SUPPLIER SHALL PROVIDE SHOP DRAWINGS INDICATING ALL THE NECESSARY INFORMATION REQUIRED TO ACCURATELY POSITION THE REBAR AS INDICATED. ENSURE CHAIRS, BOLSTERS OR OTHER MEANS OF SUPPORTING THE BARS ARE PROVIDED AND ACCURATELY DETAILED.

STEEL JOISTS

SJ1 GENERAL CONTRACTOR SHALL ENGAGE A CERTIFIED TESTING AGENCY TO PERFORM INDUSTRY STANDARD INSPECTIONS TO ENSURE CONFORMANCE WITH PLANS AND SPECIFICATIONS (IF PROVIDED). SUBMIT REPORTS TO ARCHITECT AND ENGINEER.

SJ2 ALL DESIGN, FABRICATION AND ERECTION OF STEEL JOISTS AND BRIDGING SHALL BE IN STRICT ACCORDANCE WITH THE CURRENT SPECIFICATIONS OF STEEL JOIST INSTITUTE AND RECOMMENDED CODE OF STANDARD PRACTICE.

SJ3 THE ENDS OF ALL BRIDGING LINES TERMINATING AT WALLS OR BEAMS SHALL BE ANCHORED TO THE WALL OR BEAM.

SJ4 ALL STEEL JOISTS ARE TO BE CAMBERED AS SPECIFIED BY SJI.

SJ5 PROVIDE BOTTOM AND/OR TOP CHORD EXTENSIONS AS SHOWN ON DRAWINGS.

SJ6 UNLESS NOTED OTHERWISE, MINIMUM JOIST BEARING SHALL BE 2 1/2" ON A STEEL MEMBER OR EMBED PLATE.

SJ7 BRIDGING SHALL BE FURNISHED AND INSTALLED TO MEET THE SIZE AND SPACING REQUIREMENTS OF THE SJI STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOISTS. ALL BRIDGING AND BRIDGING ANCHORS SHALL BE COMPLETELY INSTALLED BEFORE CONSTRUCTION LOADS ARE PLACED ON THE JOISTS. THE LAST TWO JOIST SPACES IN A LINE OF BRIDGING SHALL BE "X" TYPE. ALL JOISTS 40'-0" OR LONGER REQUIRE A ROW OF BOLTED BRIDGING TO BE IN PLACE BEFORE SLACKENING OF HOISTING LINES. OTHER JOISTS REQUIRE SIMILAR BRIDGING CONSULT LATEST SJI SPECIFICATIONS.

SJ8 ALL HANGERS TO SUPPORT MECHANICAL EQUIPMENT, ETC. TO BE SUPPORTED BY THE BOTTOM CHORD OF JOISTS SHALL BE LOCATED AT THE PANEL POINT OF THE JOIST. IF HANGERS MUST BE LOCATED BETWEEN PANEL POINTS, PROVIDE JOIST STIFFENERS. L1 1/2 x 1 1/2 x 3/16 JOIST STIFFENERS MUST BE INSTALLED FROM HANGER TO OPPOSITE CHORD PANEL POINT BEFORE LOAD IS APPLIED.

SJ9 CONTRACTOR TO FURNISH BAR JOIST CERTIFICATIONS SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE SAME STATE AS THE PROJECT LOCATION.

SJ10 FOR NET UPLIFT SEE NET UPLIFT PLAN ON SHEET S1.02 PROVIDE UPLIFT BRIDGING.

SJ11 ALL SPRINKLER AND ROOF DRAIN PIPES MUST BE SUPPORTED NO FURTHER THAN 3" FROM THE JOIST TOP CHORD PANEL POINTS. THIS WILL BE STRICTLY ENFORCED. WHEN PIPES ARE PERPENDICULAR TO JOISTS, HANGERS SHALL BE PROVIDED EVERY OTHER JOIST (APPROX 10'-0" OC). WHEN PIPES ARE PARALLEL TO JOISTS, TWO CASES EXIST. FIRST, PIPES THAT ARE 4" AND LESS MAY BE SUPPORTED BY A SINGLE JOIST WITH HANGERS NOT TO EXCEED 10'-0" OC. SECOND, PIPES THAT ARE LARGER THAN 4" MUST BE CENTERED BETWEEN TWO JOISTS AND SUPPORTED FROM L4x4x5/16 ANGLE BEARING ON JOIST TOP CHORD PANEL POINTS WITH SPACING NOT TO EXCEED 10'-0" OC. GENERAL CONTRACTOR SHALL COORDINATE THESE REQUIREMENTS WITH THE APPROPRIATE TRADES.

SJ12 ALL ITEMS SUSPENDED FROM JOISTS (i.e. CATWALKS, BALCONIES, OPERABLE PARTITIONS, etc...) SHALL BE INSTALLED AFTER DEAD LOAD HAS BEEN APPLIED.

JOIST BRIDGING NOTES:

JB1 BRIDGING STANDARD WITH THE MANUFACTURER AND COMPLYING WITH THE STEEL JOIST INSTITUTE STANDARD SPECIFICATIONS LOAD TABLES AND WEIGHT TABLES OF THE LATEST ADOPTION SHALL BE USED FOR BRIDGING ALL JOISTS FURNISHED BY THE MANUFACTURER. POSITIVE ANCHORAGE SHALL BE PROVIDED AT THE ENDS OF EACH BRIDGING ROW AT BOTH TOP AND BOTTOM CHORDS. SEE SHEET S1.01 FOR SAMPLE OF BRIDGING REQUIREMENTS AS PUBLISHED IN THE VULCRAFT 2017 MANUAL.

JB2 FOR "K" AND "LH" SERIES JOISTS HORIZONTAL BRIDGING IS RECOMMENDED FOR SPANS UP TO AND INCLUDING 60 FEET EXCEPT WHERE THE STEEL JOIST INSTITUTE STANDARD SPEC LOAD TABLES & WEIGHT TABLES REQUIRE BOLTED DIAGONAL BRIDGING FOR ERECTION STABILITY.

JB3 "LH" AND "DLH" SERIES JOISTS EXCEEDING 60 FEET IN LENGTH SHALL HAVE BOLTED DIAGONAL BRIDGING FOR ALL ROWS.

JB4 REFER TO SJI SECTION 6 IN THE "K" SERIES SPECIFICATIONS AND SECITON 105 IN THE "LH" AND "DLH" SERIES SPECIFICATIONS FOR ERECTION STABILITY REQUIREMENTS.

JB5 REFER TO APPENDIX E FOR OSHA STEEL JOIST ERECITON STABILITY REQUIREMENTS.

JB6 HORIZONTAL BRIDGING SHALL CONSISTS OF CONTINUOUS HORIZONTAL STEEL MEMBERS. THE l/r RATIO FOR HORIZONTAL BRIDGING SHALL NOT EXCEED 300.

JB7 DIAGONAL CROSS BRIDGING CONSISTING OF ANGLES OR OTHER SHAPES CONNECTED TO THE TOP AND BOTTOM CHORDS, OF "K", "LH" AND "DLH" SERIES JOISTS SHALL BE USED WHEN REQUIRED BY THE APPLICABLE STEEL JOIST INSTITUTE STANDARD SPECIFICATIONS LOAD TABLES AND WEIGHT TABLES OF LATEST ADOPTION.

JB8 DIAGONAL BRIDGING, WHEN USED, SHALL HAVE AN l/r RATIO < 200.

JB9 WHEN BOLTED DIAGONAL ERECTION BRIDGING IS REQUIRED, THE FOLLOWING SHALL APPLY:
A. THE BRIDGING SHALL BE INDICATED ON THE JOIST LAYOUT PLAN
B. THE JOIST LAYOUT PLAN SHALL BE THE EXCLUSIVE INDICATOR FOR THE PROPER PLACEMENT OF THIS BRIDING.
C. SHOP INSTALLED BRIDGING CLIPS, OR FUNCTIONAL EQUIVALENT SHALL BE PROVIDED WHERE THE BRIDGING BOLTS TO THE STEEL JOISTS.
D. WHEN TWO PIECES OF BRIDGING ARE ATTACHED TO THE STEEL JOIST BY A COMMON BOLT, THE NUT THAT SECURES THE FIRST PIECE OF BRIDGING SHALL NOT BE REMOVED FROM THE BOLT FOR THE ATTACHMENT OF THE SECOND PIECE.
E. BRIDING ATTACHMENTS SHALL NOT PROTRUDE ABOVE THE TOP CHORD OF THE STEEL JOISTS.

JB10 PROVIDE UPLIFT BRIDGING AT FIRST BOTTOM CHORD PANEL POINT EACH END OF JOIST. REFER TO SECTION A/S1.00 FOR UPLIFT BRIDGING CONNECITON DETAILS.

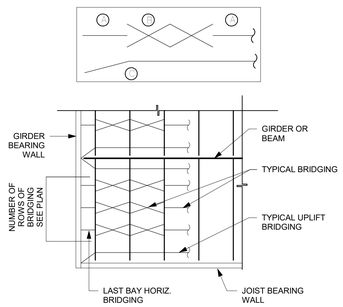
JB11 DO NOT WELD BRIDGING TO JOIST WEB MEMBERS. DO NOT HANG ANY MECHANICAL, ELECTRICAL, PLUMBING, ETC. FROM BRIDGING.

JB12 BRIDGING LEGEND FOR PLAN BELOW:

Ⓐ HORIZONTAL BRIDGING ATTACHED TO TOP & BOTTOM CHORD

Ⓑ BOLTED OR WELDED CROSS BRIDGING AS SHOWN

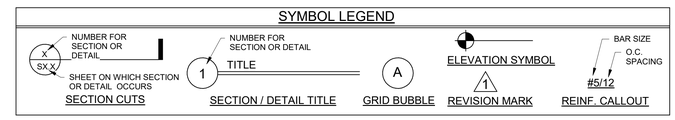
Ⓒ SINGLE LINE HORIZONTAL UPLIFT BRIDGING



STRUCTURAL ABBREVIATIONS

AB	ANCHOR BOLT
ABV	ABOVE
A.C.I.	AMERICAN CONCRETE INSTITUTE
ADD'L	ADDITIONAL
AFF	ABOVE FINISH FLOOR
AGGR	AGGREGATE
A.I.S.C.	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
A.I.S.I.	AMERICAN IRON AND STEEL INSTITUTE
AL	ALUMINUM
ALT	ALTERNATE
ARCH	ARCHITECT(URAL)
A.S.T.M.	AMERICAN SOCIETY OF TESTING MATERIALS
A.W.S.	AMERICAN WELDING SOCIETY
B/	BOTTOM OF
BB	BOND BEAM
BLDG	BUILDING
BLW	BELOW
BM	BEAM
BOT	BOTTOM
BP	BASE PLATE
BRDG	BRIDGING
BRG	BEARING
BRK	BRICK
BS	BOTH SIDES
BTJ	BOLTED TIE JOIST
BTWN	BETWEEN
C/C	CENTER TO CENTER
CANT	CANTILEVER
CB	CONCRETE BEAM
CC	CONCRETE COL
CIP	CAST IN PLACE
CJ	CONSTRUCTION JOINT OR CONTROL JOINT
CL	CENTERLINE
CLR	CLEAR(ANCE)
CM	CONCRETE MASONRY
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CSK	COUNTER SINK
CTR	CENTER
CTRD	CENTERED
DIA	DIAMETER
DL	DEAD LOAD
DN	DOWN
DTL	DETAIL
DWG	DRAWING
DWL	DOWEL
EA	EACH
EE	EACH END
EF	EACH FACE
EJ	EXPANSION JOINT
ENG	ENGINEER
EL	ELEVATION
EQ	EQUAL
EQ SP	EQUAL SPACE(S) (ING)
ES	EACH SIDE
EW	EACH WAY
EXT	EXTERIOR
F/	FACE OF
FD	FLOOR DRAIN
FDN	FOUNDATION
FIN	FINISH
FL	FLOOR
FLG	FLANGE
FS	FAR SIDE
FT	FOOT
FTG	FOOTING
GA	GAGE, GAUGE
GALV	GALVANIZE
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
GLB	GLU-LAM BEAM
GR	GRADE
HC	HOLLOW CORE
HK	HOOK
HORIZ	HORIZONTAL
HP	HIGH POINT
HS	HEADED STUD
ID	INSIDE DIAMETER
IF	INSIDE FACE
INT	INTERIOR
JST	JOIST
K	KIP
KO	KNOCK OUT
LG	LONG
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LNTL	LINTEL
LSL	LONG SLOTTED HOLES
LONG	LONGITUDINAL
LP	LOW POINT
MAS	MASONRY
MAX	MAXIMUM
MBM	METAL BUILDING MFR
MC	MOMENT CONNECTION
MCJ	MASONRY CONTROL JT
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURE(ER)
MIN	MINIMUM
MO	MASONRY OPENING
MS	METAL STUD
MTL	METAL
NS	NEAR SIDE
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIA
OF	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
PAF	POWDER ACTUATED FASTENERS
PERP	PERPENDICULAR
PC	PRECAST
PL	PLATE
PLYWD	PLYWOOD
PNL	PANEL
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PTN	PARTITION
R	RADIUS
REF	REFERENCE
REINF	REINFORCE(D) (ING)
REQ	REQUIRE
REQ'D	REQUIRED
RF	ROOF
RTN	RETURN
RW	RETAINING WALL
SCH	SCHEDULE
SE	SLAB EDGE
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SJ	SAWCUT JOINT
SJI	STEEL JOIST INSTITUTE
SL	SLOPE
SP	SPACE(S)
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STR	STRENGTH
STRL	STRUCTURAL
SW	SHEAR WALL
SYMM	SYMMETRICAL
SYP	SOUTHERN YELLOW PINE
TB	TIE BEAM
T&B	TOP & BOTTOM
TC	TIE COLUMN
TDS	TURN DOWN SLAB
TEMP	TEMPERATURE
THK	THICK
THNS	THICKEN SLAB
TOP'G	TOPPING
TYP	TYPICAL
T/	TOP OF
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
WF	WALL FOOTING
WO	WINDOW OPENING (MASONRY)
WP	WORKING POINT
WS	WATERSTOP
WWF	WELDED WIRE FABRIC
W/	WITH

SYMBOL LEGEND



WALL WIND PRESSURES - SERVICE

OPENING AREA	POSITIVE WIND PRESSURE	NEGATIVE ZONE 4 PRESSURE	NEGATIVE ZONE 5 PRESSURE
10 SF	54.9 PSF	-59.5 PSF	-73.3 PSF
20 SF	52.5 PSF	-57.1 PSF	-68.4 PSF
35 SF	50.5 PSF	-55.1 PSF	-64.5 PSF
50 SF	49.3 PSF	-53.9 PSF	-62.0 PSF
75 SF	47.9 PSF	-52.4 PSF	-59.1 PSF
100 SF	46.9 PSF	-51.4 PSF	-57.1 PSF
150 SF	45.4 PSF	-50.0 PSF	-54.2 PSF
200 SF	44.4 PSF	-49.0 PSF	-52.2 PSF
350 SF	42.5 PSF	-47.0 PSF	-48.3 PSF
500 SF	41.2 PSF	-45.8 PSF	-45.8 PSF

LOADS PER ASCE 7-16 DESIGN PARAMETERS - SEE NOTE D2 FOR "a" DIMENSION
PRESSURES SHOWN ARE SERVICE LOAD PRESSURES = 0.6 * ULTIMATE

CLASS B TENSION LAP SPLICES

BAR SIZE	F'c 3000 PSI	F'c 4000 PSI	F'c 5000 PSI
#3	32"	28"	25"
#4	43"	37"	33"
#5	53"	46"	41"
#6	64"	55"	50"
#7	93"	81"	72"
#8	107"	92"	83"
#9	120"	104"	93"
#10	136"	117"	105"
#11	151"	130"	117"

LAP LENGTHS SHOWN ARE FOR WORST CASE CLASS B TENSION LAPS

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J2 ARCHITECTURE

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DRAWING HISTORY

No	DATE	DESCRIPTION
A	04/04/2025	100% Design Development
B	07/22/2025	50% Construction Documents
C	09/18/2025	90% Construction Documents
D	10/14/2025	90% Construction Documents / Permit Set

PROJECT STATUS
90% CDs / PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT EVIDENCE AND FIRE RANGE

PROJECT LOCATION
2125 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
JSG #24115

SHEET TITLE
STRUCTURAL NOTES & SCHEDULES

SHEET NUMBER
S1.0E

FILE NAME: C:\JSG\JSG C Drive\24115- Riviera Beach PoliceRevit 2024\24115 RBPD_EFR_S_R24_Clear Span.rvt
DATE STAMP: 10/23/2025 11:51:05 AM

STEEL COLUMN / BASE PLATE SCHEDULE

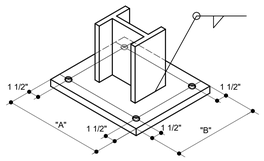
COLUMN SIZE	Base Plate A	Base Plate B	Base Plate T	Anchor Bolt E	Anchor Bolt D	Cap Plate	Remarks
HSS10X10X1/4	16"	16"	1"	8"	3/4"	1"	HSS-Hollow Structural Section-Column
2							
W10X33	16"	16"	1"				W-Wide Flange-Column
1							
W12X65							W-Wide Flange-Column
1							
Grand total: 4							

FOUNDATION SCHEDULE - PAD FOOTINGS

MARK	SIZE LENGTH	SIZE WIDTH	SIZE DEPTH	REINFORCING LONGITUDINAL	REINFORCING TRANSVERSE
F1	7' - 0"	5' - 0"	1' - 0"	(6) #5 BOTT.	(8) #5 BOTT.
F2	7' - 0"	6' - 0"	1' - 6"	(8) #5 T&B	(7) #5T&B
F3	8' - 0"	4' - 0"	1' - 3"	(5) #5 BOTT.	(8) #5 BOTT.
F50	5' - 0"	5' - 0"	1' - 0"	(6) #5 BOTT.	(6) #5 BOTT.
F60	6' - 0"	6' - 0"	1' - 6"	(8) #5 BOTT.	(8) #5 BOTT.
F60A	6' - 0"	6' - 0"	1' - 6"	(8) #5 T&B	(8) #5 T&B
F70	7' - 0"	7' - 0"	1' - 6"	(9) #5 BOTT.	(9) #5 BOTT.
F76	7' - 6"	7' - 6"	1' - 6"	(10) #5 BOTT.	(10) #5 BOTT.
F80	8' - 0"	8' - 0"	2' - 0"	(10) #6 BOTT.	(10) #6 BOTT.
F80A	8' - 0"	8' - 0"	2' - 0"	(10) #6 T&B	(10) #6 T&B
Grand total: 13					

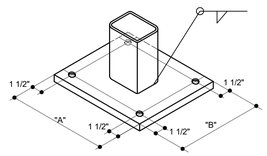
FOUNDATION SCHEDULE - WALL FOUNDATIONS

MARK	SIZE WIDTH	FND THICKNESS	REINFORCING LONGITUDINAL	REINFORCING TRANSVERSE
WF20	2' - 0"	1' - 0"	(3) #5 BOTTOM	#5 AT 16" O.C. BOTT.
WF26	2' - 6"	1' - 0"	(3) #5 BOTTOM	#5 AT 16" O.C. BOTT.
WF30	3' - 0"	1' - 0"	(4) #5 BOTT.	#5 AT 14" O.C. BOTT.
WF36	3' - 6"	1' - 0"	(4) #5 BOTT.	#5 AT 14" O.C. BOTT.
WF40	4' - 0"	1' - 6"	(5) #5 T & B	#5 AT 12" O.C. T&B
WF66	6' - 6"	1' - 6"	(8) #5 T & B	#5 AT 9" O.C. T&B
Grand total: 21				



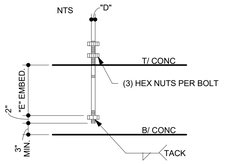
BASE PLATE DETAIL

NTS



BASE PLATE DETAIL

NTS



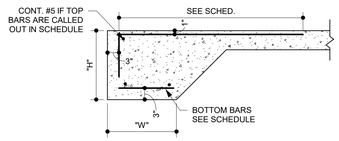
BOLTS TO BE F1554 GRADE 36 UNLESS NOTED OTHERWISE

ANCHOR BOLT DETAIL

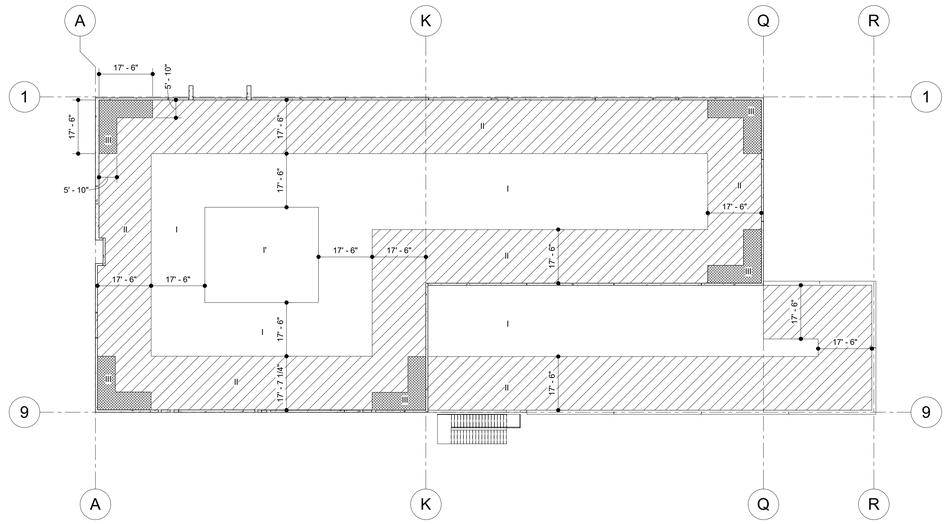
NTS

TURN DOWN SLAB SCHEDULE

MARK	SIZE OF TDS	BOTTOM REINFORCEMENT	TOP REINFORCEMENT
TDS10	CONT. x 12"W x 16"H	(2) #5 CONT. & #5 AT 18" TRANS	
TDS16	CONT. x 18"W x 24"H	(2) #5 CONT. & #5 AT 18" TRANS	#4 x 4'-0" + HOOK AT 18" O.C.



TURN DOWN SLAB DETAIL



1 ROOF UPLIFT PLAN

1" = 20'-0"

EVIDENCE UPLIFT PLAN SERVICE

ZONE	*ROOF JOISTS	*JOIST GIRDERS	ROOFING
I'	-29.5 PSF	-21.2 PSF	-54.9 PSF
I	-60.0 PSF	-38.8 PSF	-95.6 PSF
II	-80.4 PSF	-47.3 PSF	-126 PSF
III	-80.4 PSF	-47.3 PSF	-172 PSF
IV			

* GROSS UPLIFT PRESSURE SHOWN
LOADS PER ASCE 7-22 DESIGN PARAMETERS: 0.6h = 17'-6", 0.2h = 5'-10"
PRESSURES SHOWN ARE SERVICE LOAD PRESSURES = 0.6 * ULTIMATE

FILE NAME: C:\JSG\JSG C Drive\24115- Riviera Beach Police\Revit 2024\24115 RBPD_EFR_S_R24_Clear Span.rvt
DATE STAMP: 10/23/2025 11:51:07 AM

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JL2 ARCHITECTURE

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PROJECT STATUS
90% CDs / PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT EVIDENCE AND FIRE RANGE

PROJECT LOCATION
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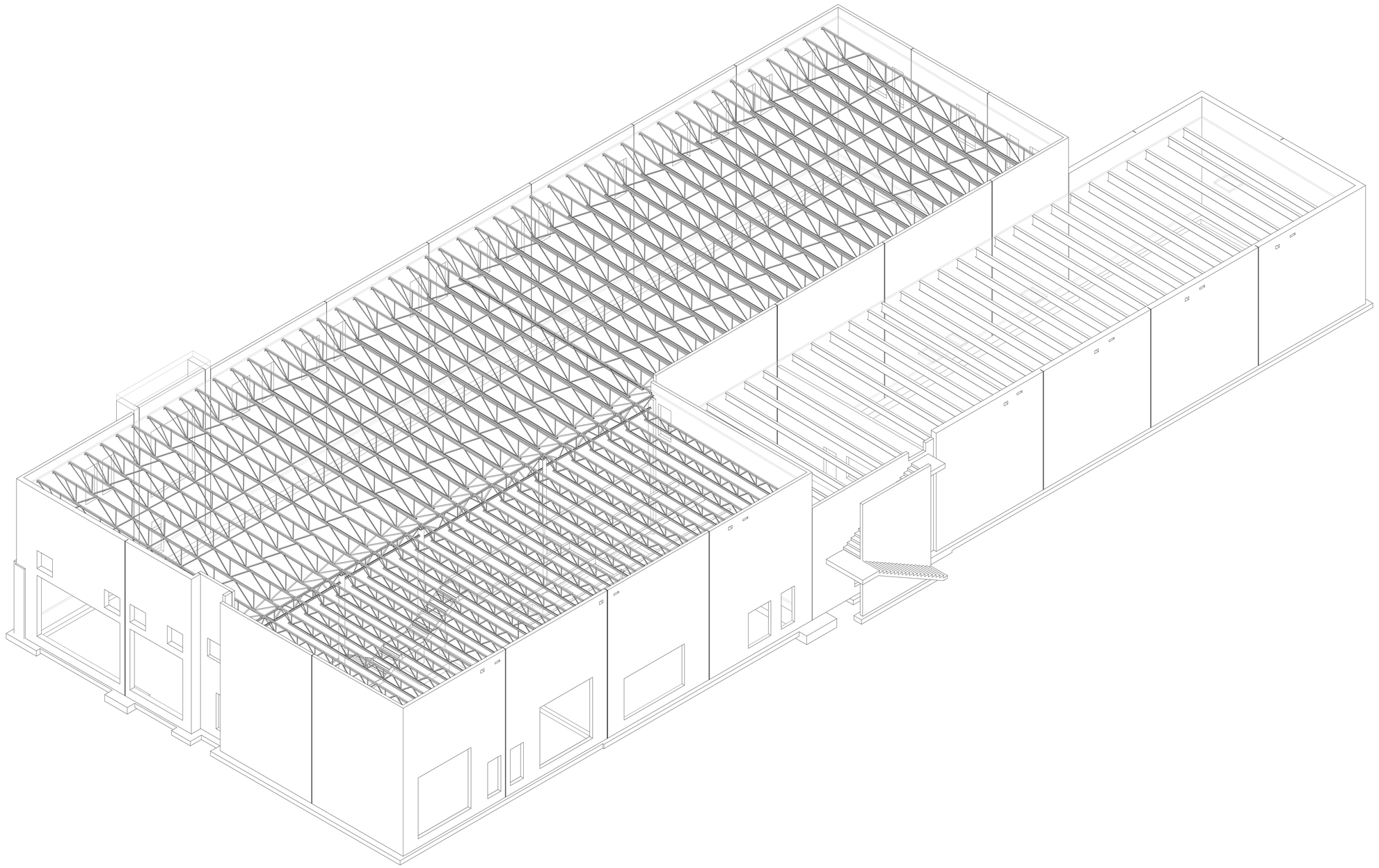
RIVIERA BEACH, FL 33404

PROJECT NUMBER
JSG #24115

SHEET TITLE
SCHEDULES

SHEET NUMBER
S1.1E



1 BUILDING ISOMETRIC 1

CLIENT

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BUILDING ISOMETRICS

SHEET NUMBER
S1.2E

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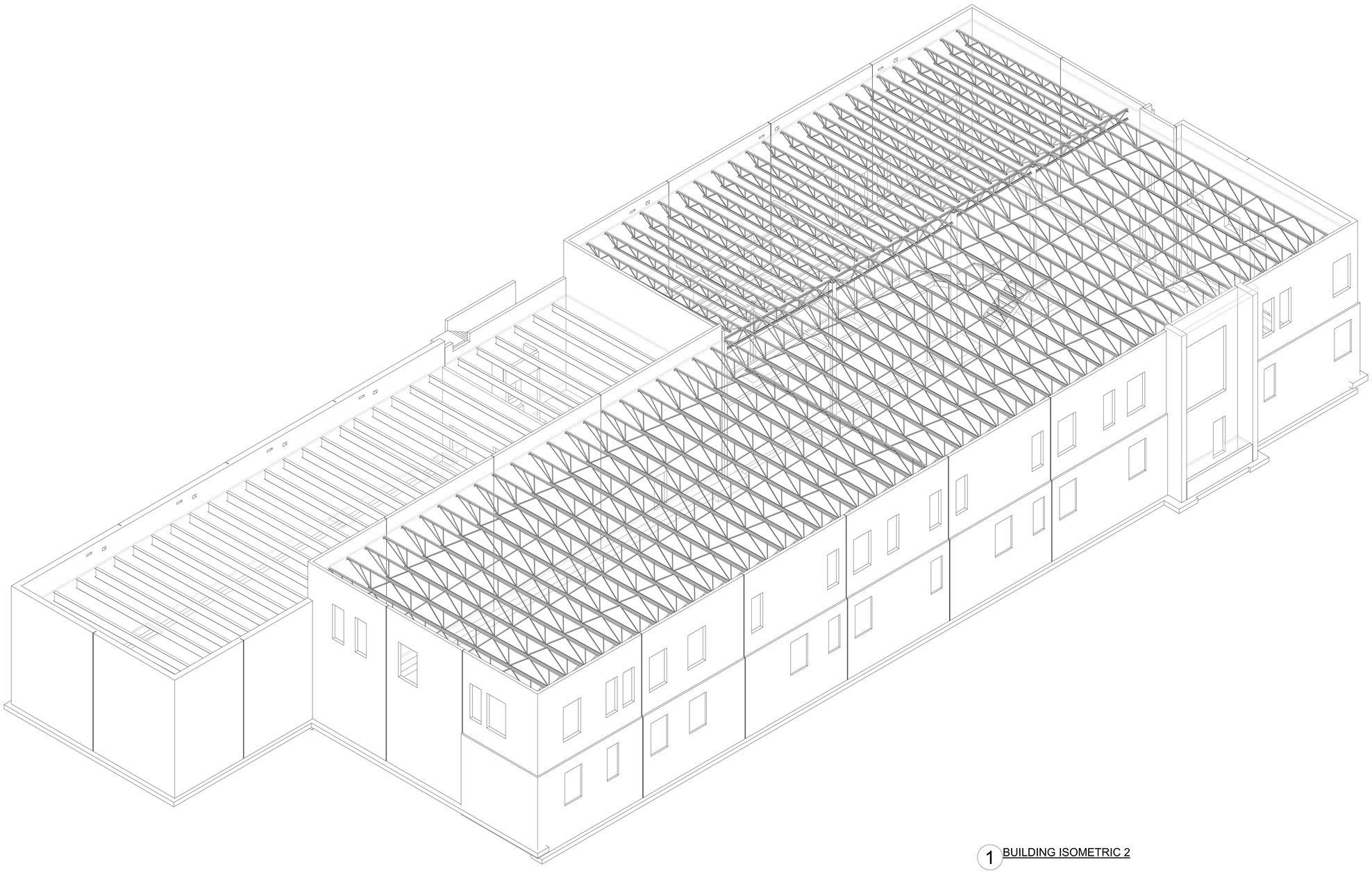

1 BUILDING ISOMETRIC 2

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DATE STAMP: 10/23/2025 11:51:10 AM

CLIENT

CITY OF RIVIERA BEACH
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Riviera Beach, FL 33404

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REGISTRATION

MARK JOHNSON
LICENSE
NO. 51983
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

DRAWING HISTORY

№	DATE	DESCRIPTION
A	04/04/2025	100% Design Development
B	07/22/2025	50% Construction Documents
C	09/18/2025	90% Construction Documents
D	10/14/2025	90% Construction Documents / Permit Set

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PROJECT STATUS
90% CDs / PERMIT SET

DATE OF ISSUE
10/14/2025

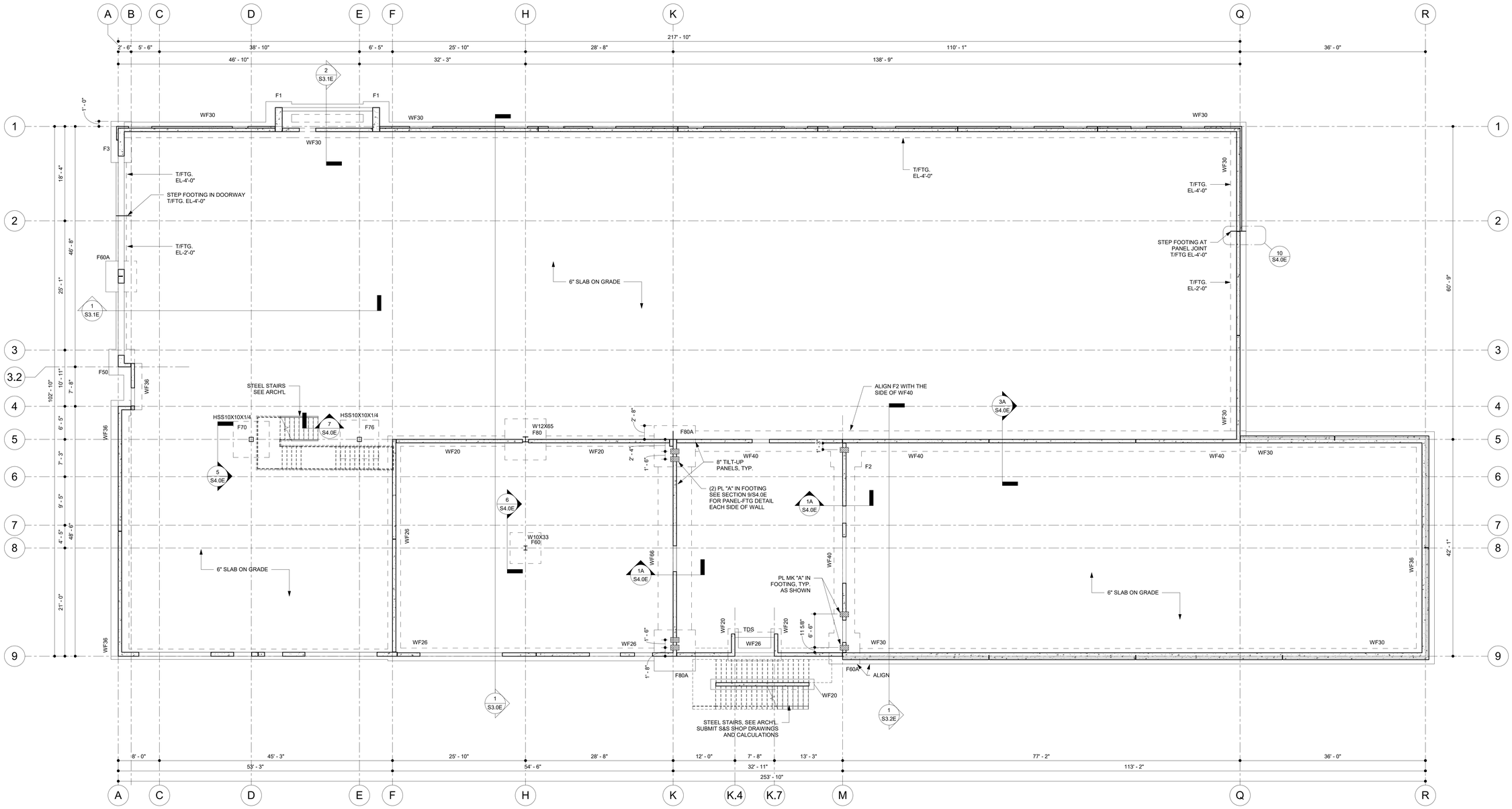
PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT EVIDENCE AND FIRE RANGE

PROJECT LOCATION
2125 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
JSG #24115

SHEET TITLE
BUILDING ISOMETRICS

SHEET NUMBER
S1.3E



1 FOUNDATION PLAN

1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. FLOOR SLAB TO BE 6" THICK CONCRETE REINFORCED WITH 6x6 W2.1xW2.1 WWF OVER 15 MIL VAPOR BARRIER ON COMPACTED TERMITE TREATED SUBGRADE. TYPICAAL THROUGHOUT
2. SEE SLAB ON GRADE DETAILS FOR PLACEMENT OF REINFORCEMENT AND JOINT DETAILS.
3. T/SLAB EL +0'-0" U.N.O. (REFERENCE ONLY). SEE CIVIL FOR ACTUAL ELEVATION.
4. T/WALL FOOTINGS TYPICAL EL -2'-0"
5. ALL EXTERIOR PANELS ALLOW FOR A 3/4" DEEP RECESS (i.e. THICKNESS = STRUCTURAL THICKNESS + 3/4" INCH) U.N.O. SEE PANEL REINFORCEMENT SHEETS FOR INDIVIDUAL PANEL THICKNESSES.
6. ALL TILT-UP PANELS ARE VIEWED FROM THE INSIDE OF THE BUILDING OR FROM THE NON-FINISHED FACE.
7. ALL FOOTINGS ARE CENTERED BENEATH BEARING WALLS AND COLUMNS.
8. SEE SHEET SS.0E FOR PANEL REINFORCING EMBEDDED ITEMS AND JOINT DETAILS.
9. SEE SHEET S1.1E FOR FOUNDATION AND STEEL COLUMN SCHEDULES
10. PROVIDE 6" HOUSEKEEPING PAD AT MECHANICAL EQUIPMENT REINFORCED WITH 6x6 W1.4xW1.4 WWF. HOUSEKEEPING PAD TO BE 6" WIDER THAN EQUIPMENT SUPPORTED. COORDINATE WITH MEP.

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JL2 ARCHITECTURE

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10/14/2025

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RIVIERA BEACH POLICE DEPARTMENT EVIDENCE AND FIRE RANGE

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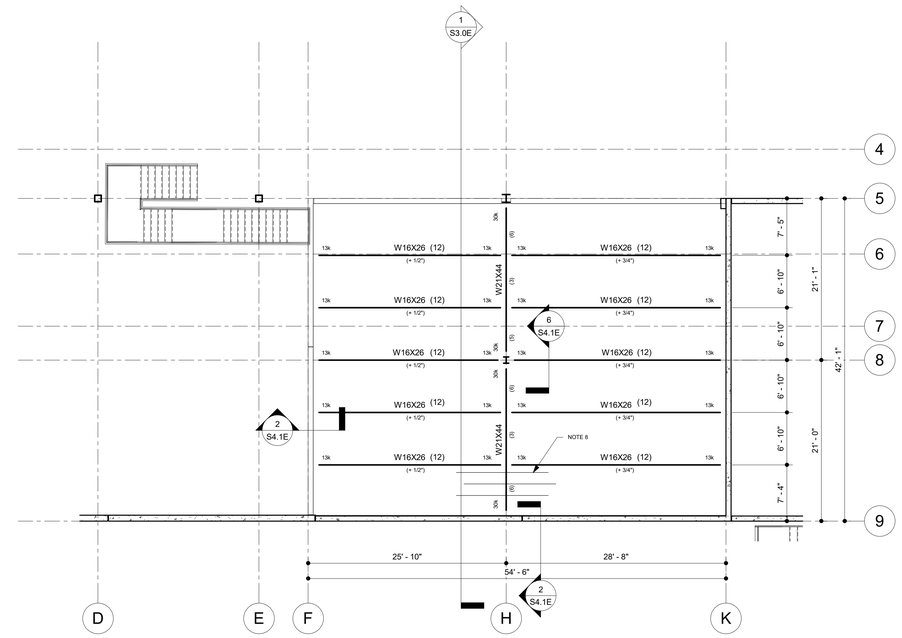
RIVIERA BEACH, FL 33404

PROJECT NUMBER
JSG #24115

SHEET TITLE
FOUNDATION PLAN

SHEET NUMBER
S2.0E



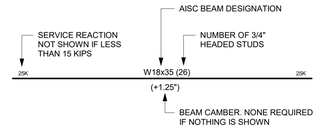
1 MEZZANINE PLAN
1/8" = 1'-0"

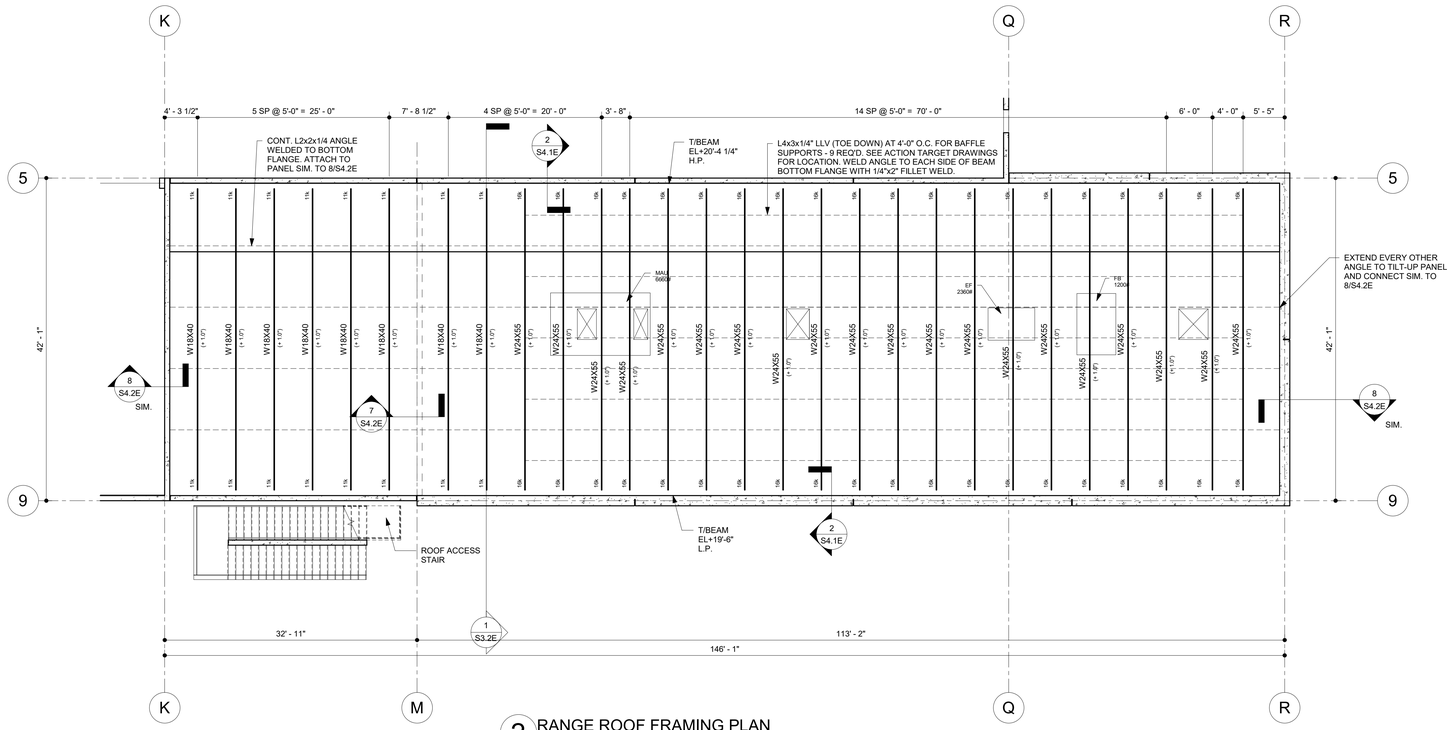
MEZZANINE DESIGN LOADS

LIVE LOAD OFFICE:	80 PSF
LIVE LOAD AT STAIRS: OR CONCENTRATED LOAD ON TREADS:	100 PSF 300 #
MISC. DEAD LOAD THROUGHOUT:	10 PSF
SYSTEM WEIGHT (3" CONCRETE & 3" DECK):	57 PSF
FLOOR LIVE LOAD REDUCTION PER FLORIDA BUILDING CODE SECTION 1607.10 WITH MAXIMUM 20% FOR GIRDERS AND 30% FOR COLUMNS AND FOOTINGS.	

MEZZANINE FLOOR FRAMING NOTES:

1. FLOOR SYSTEM SHALL BE 3" NORMAL WEIGHT CONCRETE ON 3", 20GA GALVANIZED G60 VULCRAFT VLI COMPOSITE METAL DECK. (6" TOTAL THICKNESS).
2. T/FINISHED FLOOR EL. + 14'-0"
3. T/BEAM = EL +13-6"
4. REINFORCE DECK WITH 6x6 W1.4xW1.4 WELDED WIRE FABRIC CHAIRED 1.5" BELOW TOP OF SLAB.
5. FLOOR IS DESIGNED AS AN UNSHORED COMPOSITE BEAM SYSTEM. ATTACH METAL DECK TO TOP FLANGE OF BEAMS USING HEADED STUDS IN ACCORDANCE WITH SDI 36/4 PATTERN WITH (4) #12 TEK SIDELAP SCREWS. PROVIDE 5/8" DIA PUDDLE WELDS AT 12" O.C. ALONG PERIMETER ANGLE.
6. ALL STEEL BEAMS TO BE A992, Fy = 50 KSI
7. ALL REACTIONS ARE SHOWN AS SERVICE REACTIONS. IF BEAM REACTION IS NOT SHOWN ON PLAN, ASSUME A MINIMUM 12 KIP SERVICE REACTION
8. PROVIDE #4 BARS AT 18" O.C. TOP AT GIRDERS. ALTERNATELY STAGGER BARS 12" FROM THE GIRDER CENTERLINE. SEE PLAN FOR BAR LENGTHS.
9. PROVIDE 6" HOUSEKEEPING PAD AT MECHANICAL EQUIPMENT REINFORCED WITH 6x6 W1.4xW1.4 WWF. HOUSEKEEPING PAD TO BE 6" WIDER THAN EQUIPMENT SUPPORTED. COORDINATE WITH MEP.





2 RANGE ROOF FRAMING PLAN
1/8" = 1'-0"

ROOF DESIGN LOADS

DESIGN LIVE LOAD	DESIGN DEAD LOAD	1" DECK + 3" CONCRETE	SHOOTING RANGE BAFFLES
30 PSF	25 PSF	45 PSF	WEIGHT INCL.

ROOF FRAMING NOTES:

1. ROOF SYSTEM TO BE 3" CONCRETE ON 1.0C-32 22 GAGE, GRADE 80 NON-COMPOSITE METAL DECK, 4" TOTAL THICKNESS, ON STEEL BEAMS SPACED AS SHOWN. ATTACH METAL DECK TO BEAMS WITH 5/8" PUDDLE WELDS 1 PER RIB. PROVIDE 5/8" PUDDLE WELDS AT 4" ON CENTER PARALLEL TO THE DECK SPAN AT EDGE SUPPORTS. USE #10 TEK SIDELAP SCREWS AT 24" O.C. MAX SPACING.
2. REINFORCE DECK WITH 6x6 10x10 WWF CHAIRED MID HEIGHT OF SLAB.
3. W24x55 BEAMS HAVE TAKEN INTO ACCOUNT THE WEIGHT OF THE HANGING BAFFLE SYSTEM BELOW FOR THE RANGE. DESIGN BASED ON ACTION TARGET DESIGN DRAWINGS SHEET Z102.
4. T/STEEL BEAMS EL+ 19'-6", THROUGHOUT
5. SEE PLAN FOR TOP OF PARAPET ELEVATIONS
6. SEE STRUCTURAL NOTE SHEET S1.0E FOR STRUCTURAL STEEL NOTES. SEE SHEET S1.1E FOR SCHEDULES.
7. SEE SECTIONS FOR FRAMING DETAILS
8. SEE PLAN FOR TOP OF BEAM ELEVATIONS
9. SEE SHEET S1.1E FOR ROOF UPLIFT PLAN.

CLIENT

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REGISTRATION

MARK JOHNSON LICENSE NO. 51983 STATE OF FLORIDA PROFESSIONAL ENGINEER

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J2 ARCHITECTURE

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PROJECT STATUS
90% CDs / PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT EVIDENCE AND FIRE RANGE

PROJECT LOCATION
2125 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
JSG #24115

SHEET TITLE
MEZZANINE PLAN AND FIRING RANGE ROOF FRAMING PLAN

SHEET NUMBER
S2.1E

FILE NAME: C:\JSG\JSG C Drive\24115- Riviera Beach Police\Revit 2024\24115 RBPD_EFR_S_R24_Clear Span.rvt
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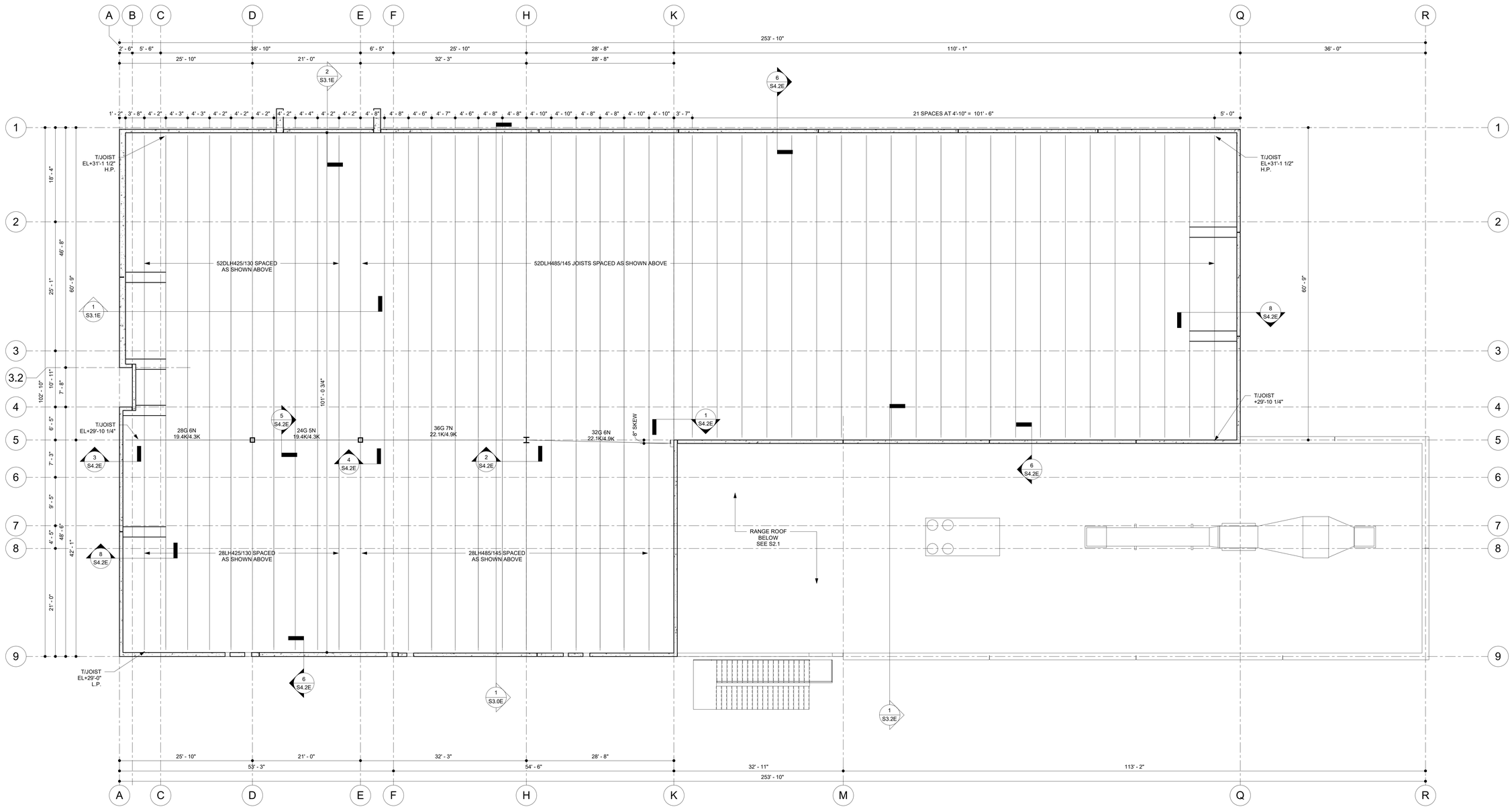

1 EVIDENCE ROOF FRAMING PLAN

1/8" = 1'-0"

ROOF DESIGN LOADS			
JOIST DESIGN LIVE LOAD	JOIST GIRDER LIVE LOAD	DESIGN DEAD LOAD	1" DECK + 3" CONCRETE
30 PSF	20 PSF	25 PSF	45 PSF

ROOF FRAMING NOTES:

1. ROOF SYSTEM TO BE 3" CONCRETE ON 1.0C-32 22 GAGE, GRADE 80 NON-COMPOSITE METAL DECK, 4" TOTAL THICKNESS, ON BAR JOISTS SPACED AS SHOWN. ATTACH METAL DECK TO JOISTS WITH 5/8" PUDDLE WELDS, 1 PER RIB + 1 EVERY OTHER RIB. PROVIDE 5/8" PUDDLE WELDS AT 2.5" ON CENTER PARALLEL TO THE DECK SPAN AT EDGE SUPPORTS. USE #10 TEK SIDELAP SCREWS AT 24" O.C. MAX SPACING.
2. REINFORCE DECK WITH 6X6 10X10 WWF CHAIRED MID HEIGHT OF SLAB.
3. T/JOIST EL + 29'-0" THROUGHOUT
4. SEE PLAN FOR TOP OF PARAPET ELEVATIONS
5. SEE STRUCTURAL NOTE SHEET S1.0E FOR STRUCTURAL STEEL NOTES. SEE SHEET S1.1E FOR SCHEDULES.
6. SEE SECTIONS FOR FRAMING DETAILS
7. SEE PLAN FOR TOP OF BEAM ELEVATIONS
8. SEE SHEET S1.1E FOR ROOF UPLIFT PLAN.

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PROJECT STATUS
90% CDs / PERMIT SET

DATE OF ISSUE
10/14/2025

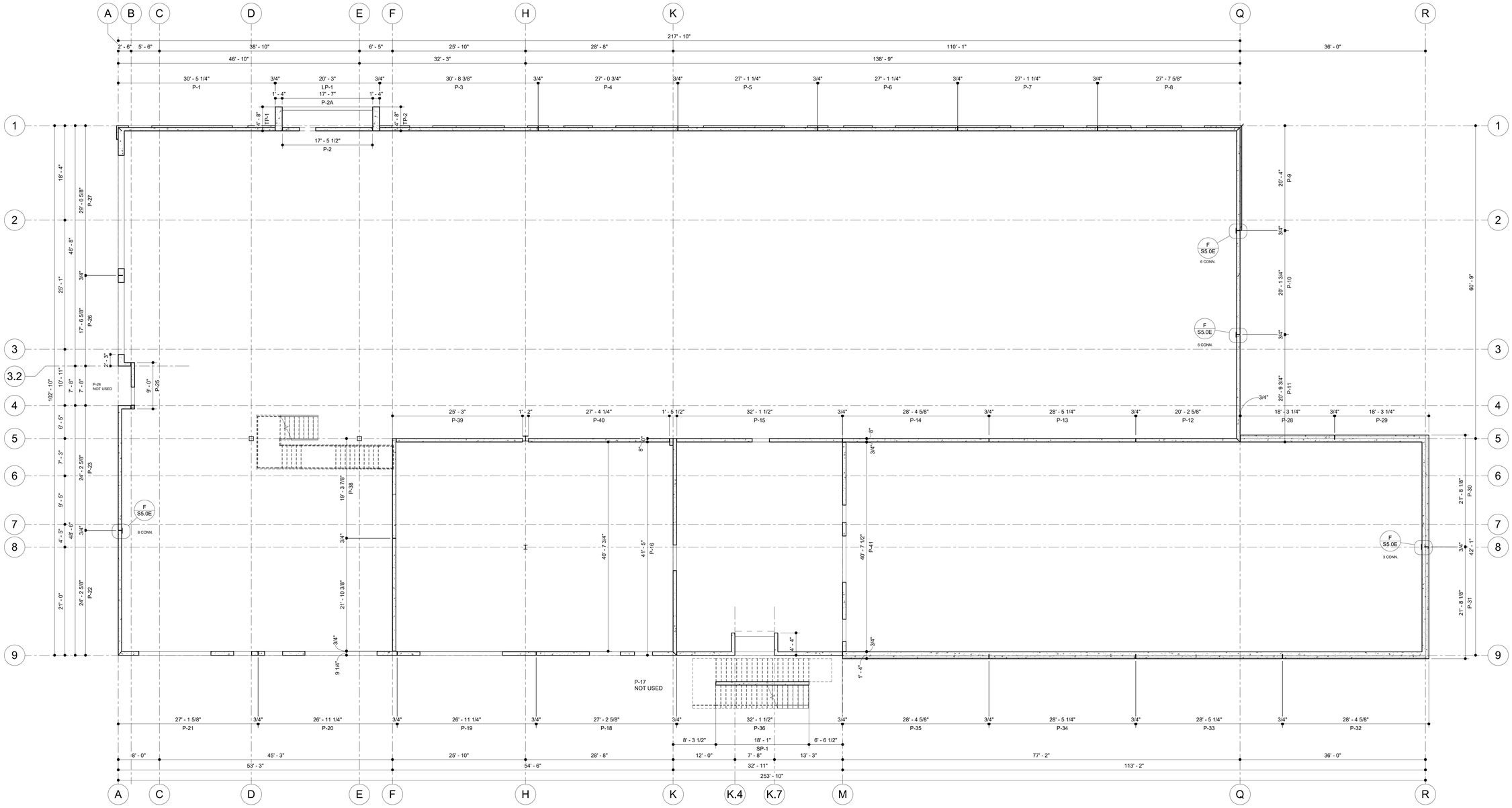
PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT EVIDENCE AND FIRE RANGE

PROJECT LOCATION
2125 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
JSG #24115

SHEET TITLE
EVIDENCE STORAGE HIGH ROOF FRAMING PLAN

SHEET NUMBER
S2.2E



1 PANEL LAYOUT PLAN
1/8" = 1'-0"

FILE NAME: C:\JSG\JSG C Drive\24115- Riviera Beach Police\Revit 2024\24115 RBPD_EFR_S_R24_Clear Span.rvt
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PROJECT STATUS
90% CDs / PERMIT SET

DATE OF ISSUE
10/14/2025

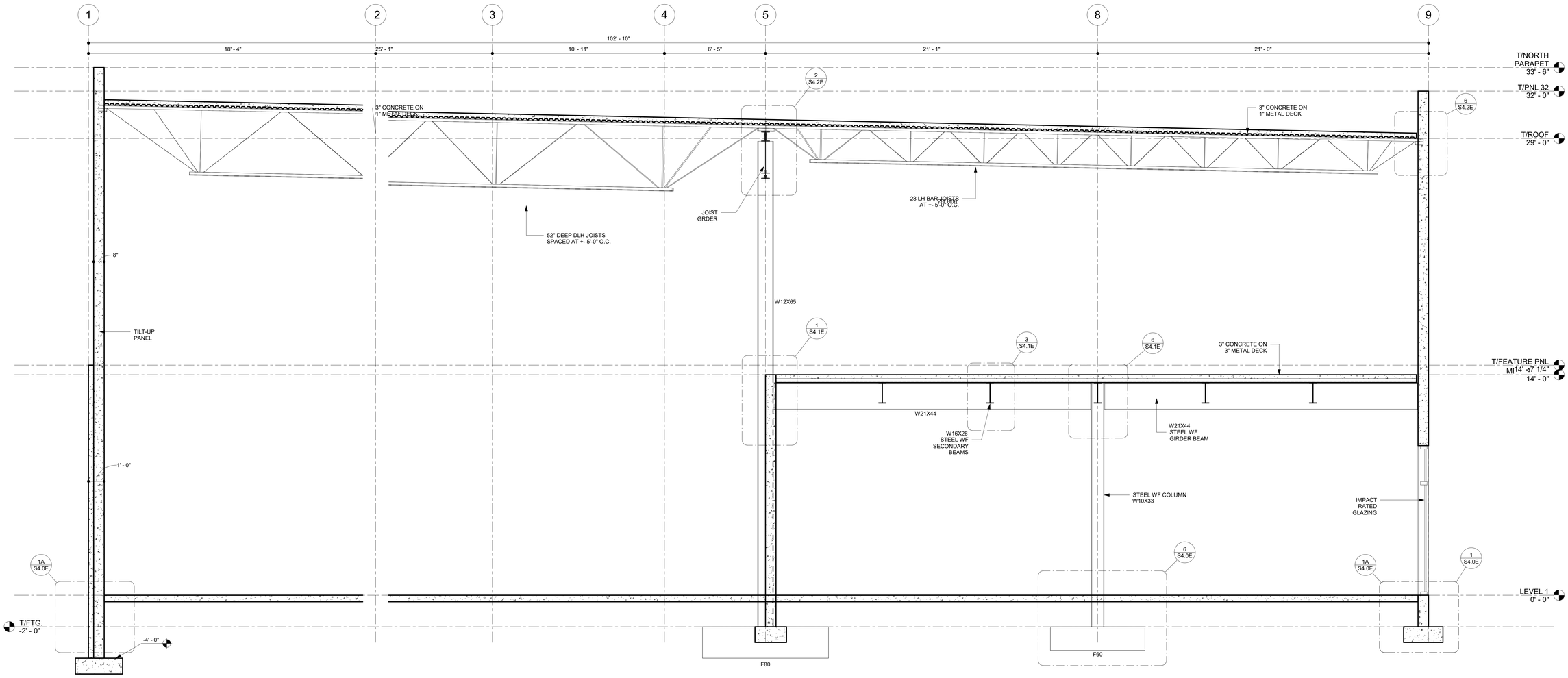
PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT EVIDENCE AND FIRE RANGE

PROJECT LOCATION
2125 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
JSG #24115

SHEET TITLE
PANEL LAYOUT PLAN

SHEET NUMBER
S2.3E



1 BUILDING TRANSVERSE SECTION THROUGH MEZZANINE
3/8" = 1'-0"

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DATE STAMP: 10/23/2025 11:51:15 AM

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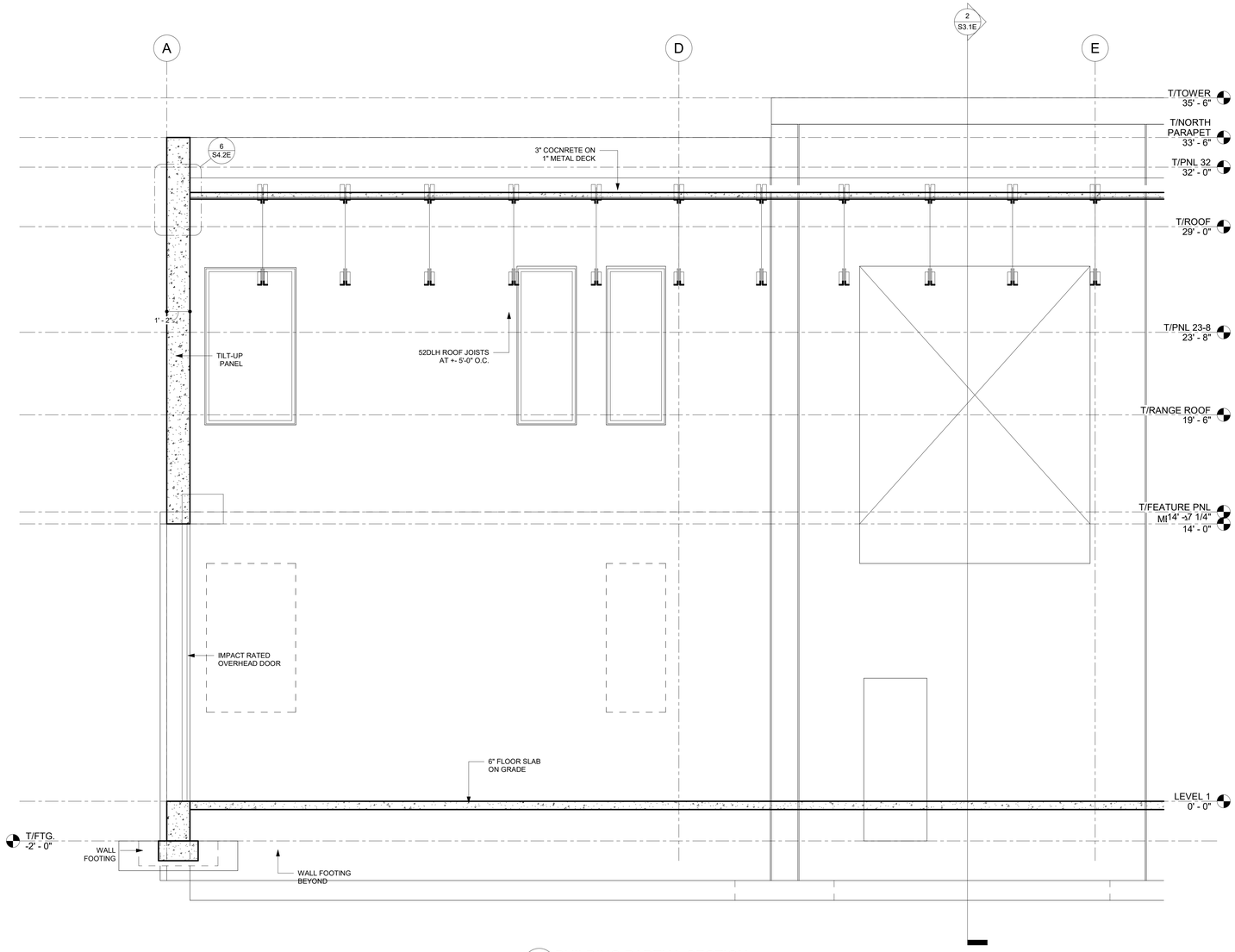
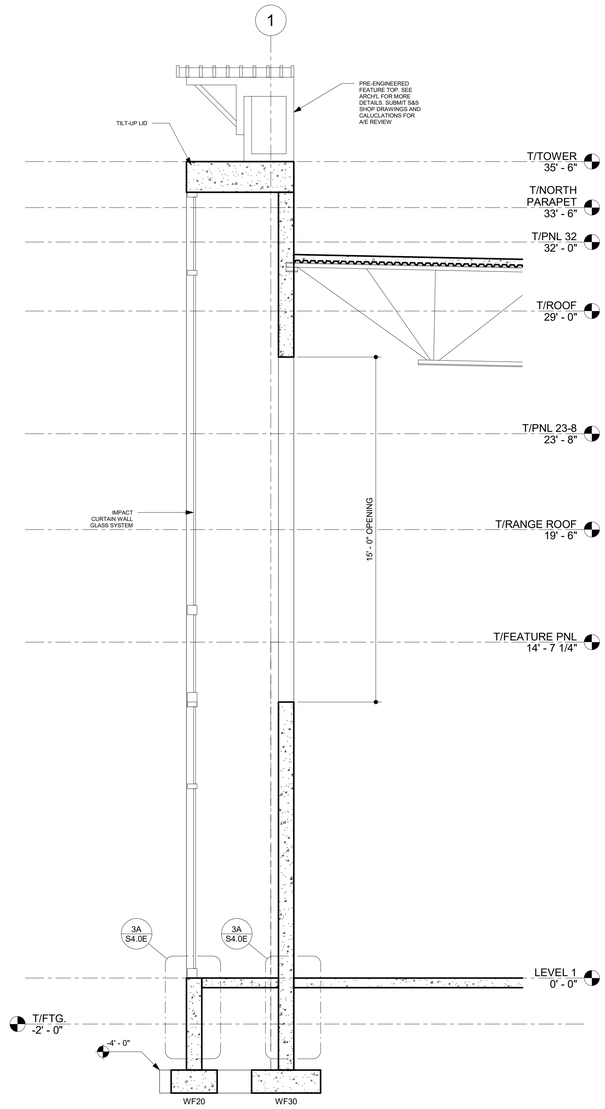
PROJECT NUMBER
JSG #24115

SHEET TITLE
BUILDING SECTIONS

SHEET NUMBER
S3.0E



1 BUILDING PARTIAL SECTION
3/8" = 1'-0"



2 SECTION THROUGH TOWER FEATURE
3/8" = 1'-0"

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DATE STAMP: 10/23/2025 11:51:17 AM

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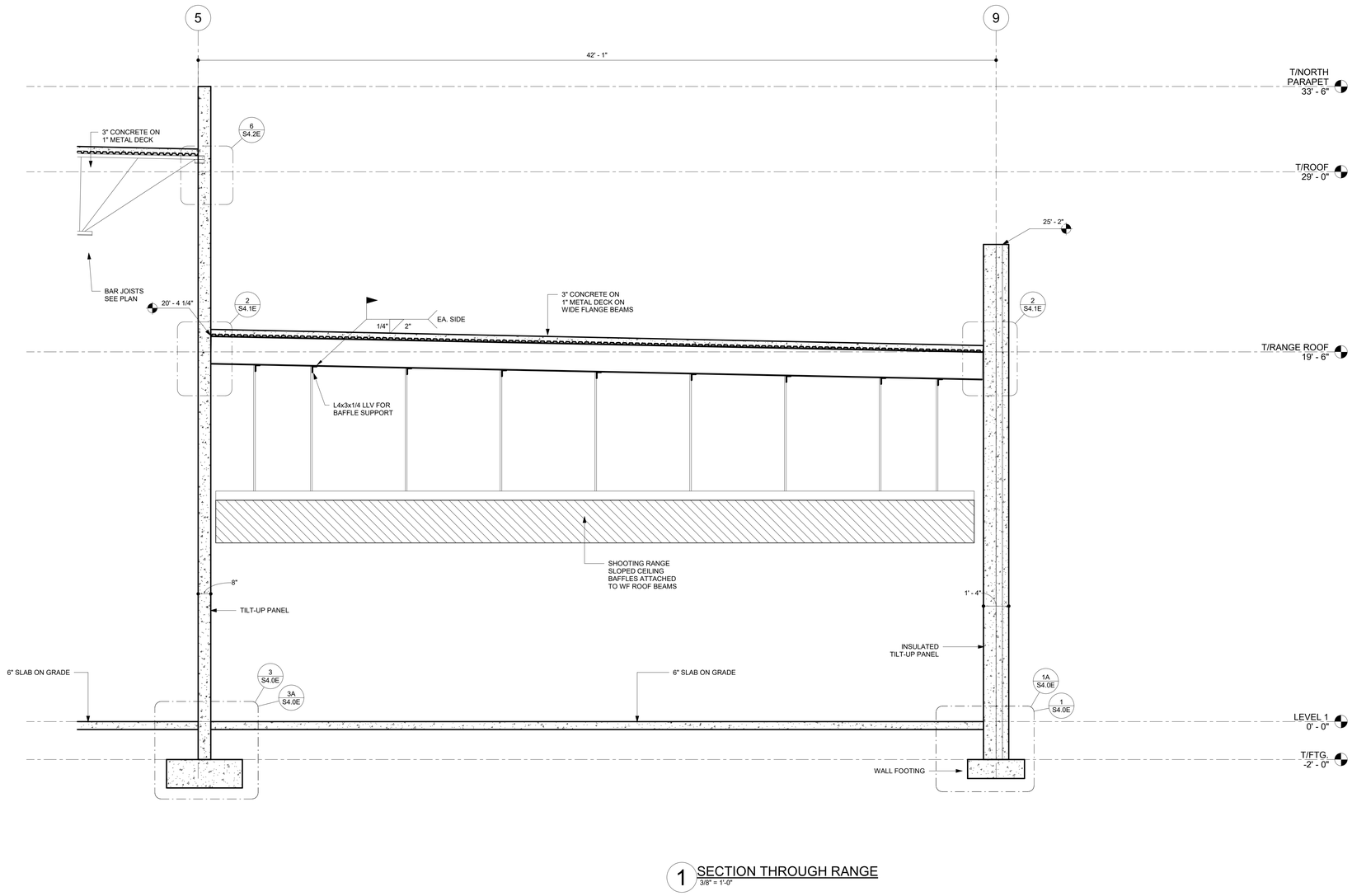

1 SECTION THROUGH RANGE
3/8" = 1'-0"

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BUILDING SECTIONS

SHEET NUMBER
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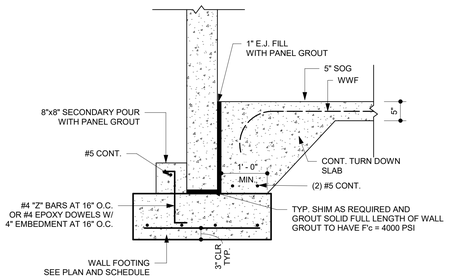
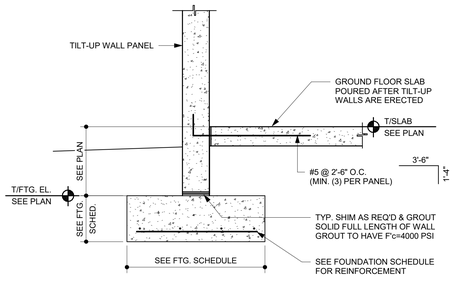
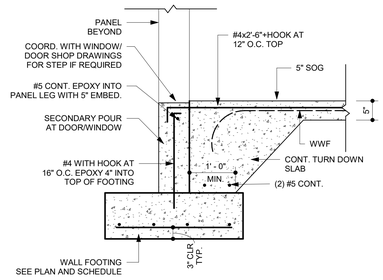


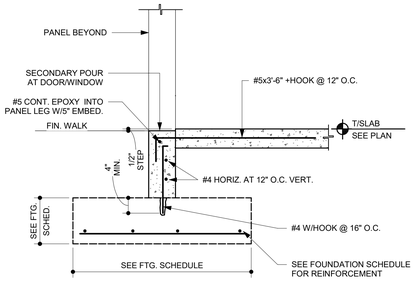
1 SECTION AT WALL FOOTING - TDS
3/4" = 1'-0"



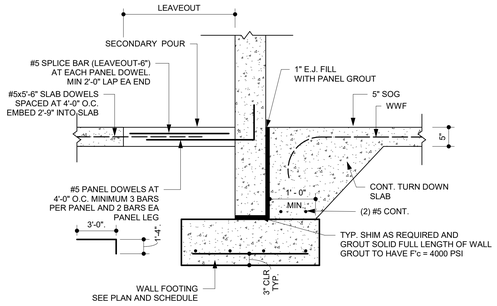
1A SECTION AT WALL FOOTING - LEAVEOUT
3/4" = 1'-0"



2 SECTION AT EXT. DOOR - TDS
3/4" = 1'-0"



2A SECTION AT EXT. DOOR - LEAVEOUT
3/4" = 1'-0"

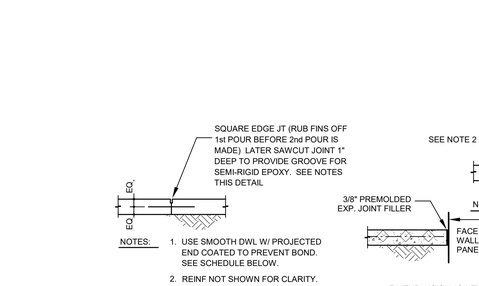


3 SECTION AT INTERIOR TILT WALL - TDS
3/4" = 1'-0"

3A SECTION AT INTERIOR TILT WALL - LEAVEOUT
3/4" = 1'-0"

4 SECTION AT INTERIOR DOOR
3/4" = 1'-0"

5 SECTION AT STEEL TS COLUMN
3/4" = 1'-0"

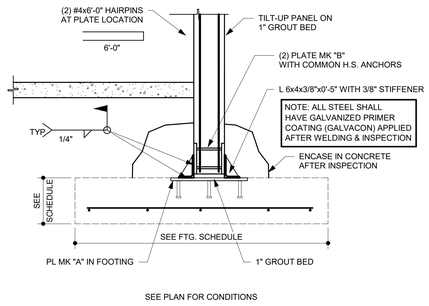


NOTE: SIMILAR FOR TS COLUMN

6 SECTION AT STEEL WF COLUMN
3/4" = 1'-0"

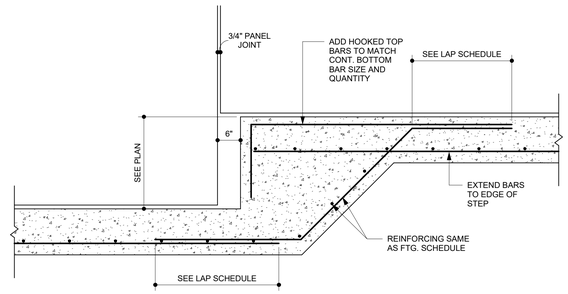
7 SECTION AT STEEL STAIR LANDING
3/4" = 1'-0"

8 SECTION AT OVERHEAD DOOR
3/4" = 1'-0"

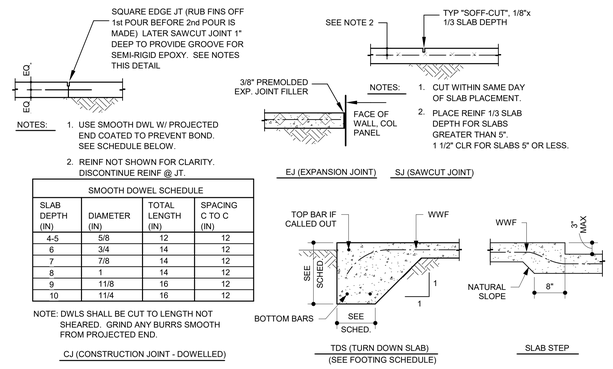


SEE PLAN FOR CONDITIONS

9 PANEL TO FOOTING CONN 2
3/4" = 1'-0"



10 SECTION AT FOOTING STEP
3/4" = 1'-0"



SMOOTH DOWEL SCHEDULE			
SLAB DEPTH (IN)	DIAMETER (IN)	TOTAL LENGTH (IN)	SPACING C TO C (IN)
4-5	5/8	12	12
6	3/4	14	12
7	7/8	14	12
8	1	14	12
9	11/8	16	12
10	11/4	16	12

NOTE: DWLS SHALL BE CUT TO LENGTH NOT SHEARED. GRIND ANY BURRS SMOOTH FROM PROJECTED END.

CJ (CONSTRUCTION JOINT - DOWELLED)

TDS (TURN DOWN SLAB)
(SEE FOOTING SCHEDULE)

SLAB STEP

A SLAB ON GRADE DETAILS
3/4" = 1'-0"

FILE NAME: C:\JSG\JSG C Drive\24115- Riviera Beach Police\Revit 2024\24115 RBPD_EFR_S_R24_Clear Span.rvt
DATE STAMP: 10/23/2025 11:51:21 AM

CLIENT

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Riviera Beach, FL 33404

ARCHITECT

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REGISTRATION

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J2 ARCHITECTURE

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PROJECT STATUS
90% CDs / PERMIT SET

DATE OF ISSUE
10/14/2025

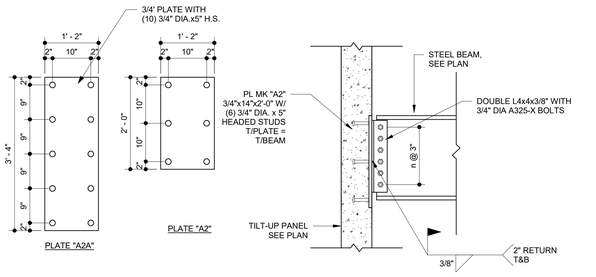
PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT EVIDENCE AND FIRE RANGE

PROJECT LOCATION
2125 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
JSG #24115

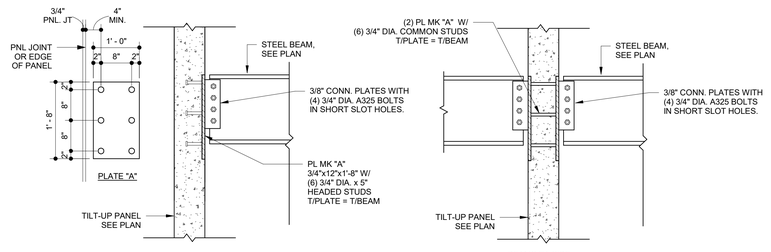
SHEET TITLE
STRUCTURAL DETAILS

SHEET NUMBER
S4.0E



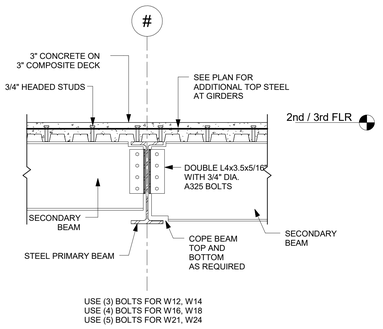
NOTES: USE THIS CONNECTION FOR PRIMARY GIRDER BEAMS FOR REACTIONS >=41 KIPS AND <60 KIPS
USE PLATE "A2A" FOR REACTIONS > 60 KIPS AND <= 90 KIPS
USE 5 BOLTS FOR W18 BEAM
USE 6 BOLTS FOR W21 AND W24 BEAMS

1 SECTION AT PRIMARY BEAM TO WALL
3/4" = 1'-0"



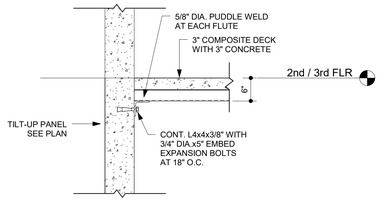
NOTE: USE THIS CONNECTION FOR REACTIONS EQUAL TO OR LESS THAN 40 KIPS FIELD AND 30 KIPS AT THE EDGE. THIS CONNECTION ALSO APPLIES FOR BEAMS AT A SKEW TO WALL

2 SECTION AT SECONDARY BEAM TO WALL
3/4" = 1'-0"

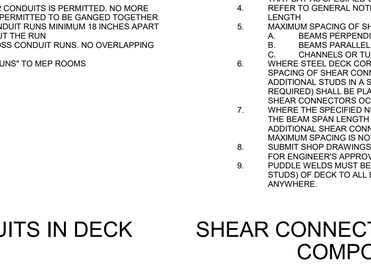


USE (3) BOLTS FOR W12, W14
USE (4) BOLTS FOR W16, W18
USE (5) BOLTS FOR W21, W24

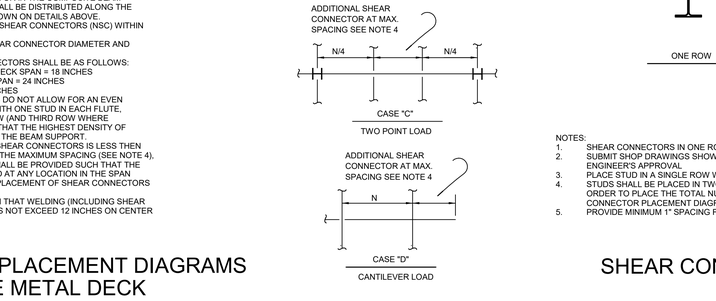
3 SECTION AT BEAM TO BEAM
3/4" = 1'-0"



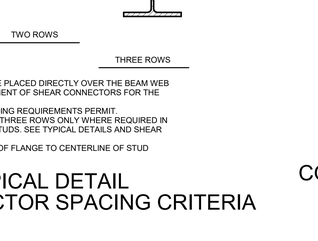
4 SECTION AT FLOOR DECK BEARING
3/4" = 1'-0"



5 SECTION AT FLOOR PARALLEL TO WALL
3/4" = 1'-0"



6 SECTION AT WF COLUMN TO BEAM CONNECTION
3/4" = 1'-0"



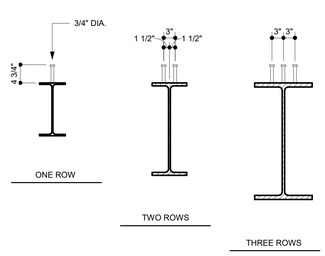
7 SECTION AT TYPICAL DECK BEARING
1 1/2" = 1'-0"

NOTES:
1. CONDUITS NEED TO BE LIMITED TO A MAXIMUM 1" OUTSIDE DIAMETER
2. CONDUIT SHALL BE WIRE TIED TO 3/4" CHAIRS SET ON THE TOP FLUTES
3. CONDUIT SHALL NOT BE RUN IN THE "VALLEY" OF THE FLUTES
4. GANGIN OF 2 CONDUITS IS PERMITTED. NO MORE THAN 2 ARE PERMITTED TO BE GANGED TOGETHER
5. SPAACE CONDUIT RUNS MINIMUM 18 INCHES APART THROUGHOUT THE RUN
6. DO NOT CROSS CONDUIT RUNS. NO OVERLAPPING PERMITTED
7. DO "HOME RUNS" TO MEP ROOMS

CONDUITS IN DECK

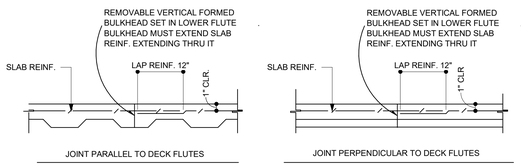
NOTES:
1. N=SPECIFIED NUMBER OF SHEAR CONNECTORS. REFER TO PLAN
2. UNLESS NOTED OTHERWISE ON PLAN OR IN THE COMPOSITE BEAM SCHEDULE, SHEAR CONNECTORS SHALL BE DISTRIBUTED ALONG THE ENTIRE LENGTH OF THE BEAM AS SHOWN ON DETAILS ABOVE.
3. FOR GIRDERS, PROVIDE NUMBER OF SHEAR CONNECTORS (NSC) WITHIN THAT BAY AS SPECIFIED ON PLANS.
4. REFER TO GENERAL NOTED FOR SHEAR CONNECTOR DIAMETER AND LENGTH
5. MAXIMUM SPACING OF SHEAR CONNECTORS SHALL BE AS FOLLOWS:
   A. BEAMS PERPENDICULAR TO DECK SPAN = 18 INCHES
   B. BEAMS PARALLEL TO DECK SPAN = 24 INCHES
   C. CHANNELS OR TUBES = 18 INCHES
6. WHERE STEEL DECK CORRUGATIONS DO NOT ALLOW FOR AN EVEN SPACING OF SHEAR CONNECTORS WITH ONE STUD IN EACH FLUTE, ADDITIONAL STUDS IN A SECOND ROW (AND THIRD ROW WHERE REQUIRED) SHALL BE PLACED SUCH THAT THE HIGHEST DENSITY OF SHEAR CONNECTORS OCCURS NEAR THE BEAM SUPPORT.
7. WHERE THE SPECIFIED NUMBER OF SHEAR CONNECTORS IS LESS THEN THE BEAM SPAN LENGTH DIVIDED BY THE MAXIMUM SPACING (SEE NOTE 4), ADDITIONAL SHEAR CONNECTORS SHALL BE PROVIDED SUCH THAT THE MAXIMUM SPACING IS NOT EXCEEDED AT ANY LOCATION IN THE SPAN.
8. SUBMIT SHOP DRAWINGS SHOWING PLACEMENT OF SHEAR CONNECTORS FOR ENGINEER'S APPROVAL
9. PUDDLE WELDS MUST BE USED SUCH THAT WELDING (INCLUDING SHEAR STUDS) OF DECK TO ALL BEAMS DOES NOT EXCEED 12 INCHES ON CENTER ANYWHERE.

SHEAR CONNECTOR PLACEMENT DIAGRAMS COMPOSITE METAL DECK



NOTES:
1. SHEAR CONNECTORS IN ONE ROW SHALL BE PLACED DIRECTLY OVER THE BEAM WEB
2. SUBMIT SHOP DRAWINGS SHOWING PLACEMENT OF SHEAR CONNECTORS FOR THE ENGINEER'S APPROVAL
3. PLACE STUD IN A SINGLE ROW WHERE SPACING REQUIREMENTS PERMIT.
4. STUDS SHALL BE PLACED IN TWO ROWS OR THREE ROWS ONLY WHERE REQUIRED IN ORDER TO PLACE THE TOTAL NUMBER OF STUDS. SEE TYPICAL DETAILS AND SHEAR CONNECTOR PLACEMENT DIAGRAMS
5. PROVIDE MINIMUM 1" SPACING FROM EDGE OF FLANGE TO CENTERLINE OF STUD

TYPICAL DETAIL SHEAR CONNECTOR SPACING CRITERIA



NOTES:
1. CONSTRUCTION JOINTS SHALL BE LOCATED NO CLOSER THAN 5'-0" FROM THE CENTER LINE OF THE NEAREST GIRDER
2. AT CONTRACTOR'S OPTION, PRE-FORMED PERMANENT METAL SHEAR KEY MAY BE USED WITH SLAB REINFORCEMENT STOPPING EACH SIDE AND #3 DOWELSx2'-0" CENTERED AT 18" O.C.

TYPICAL DETAIL CONCRETE SLAB ON METAL DECK CONSTRUCTION JOINT

A COMPOSITE BEAM DETAILS
3/4" = 1'-0"

FILE NAME: C:\JSG\JSG C Drive\24115- Riviera Beach Police\Revit 2024\24115 RBPD_EFR_S_R24_Clear Span.rvt
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REGISTRATION

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PROJECT STATUS
90% CDs / PERMIT SET

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10/14/2025

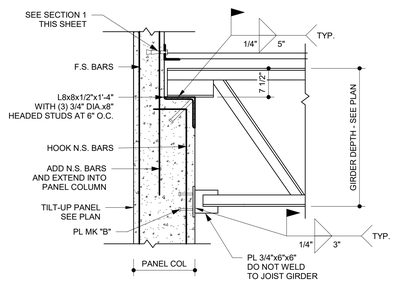
PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT EVIDENCE AND FIRE RANGE

PROJECT LOCATION
2125 AVENUE S.
RIVIERA BEACH, FL 33404

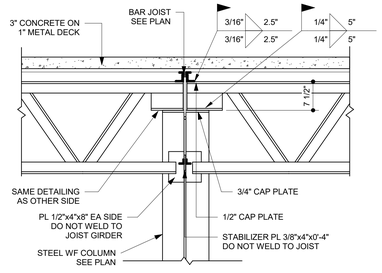
PROJECT NUMBER
JSG #24115

SHEET TITLE
FLOOR FRAMING DETAILS

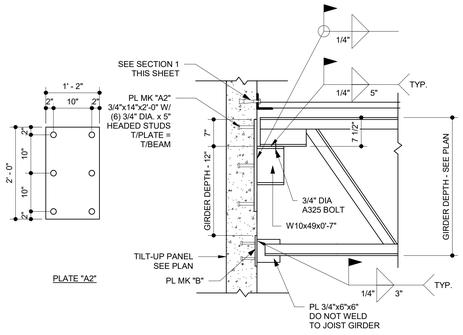
SHEET NUMBER
S4.1E



1 SECTION AT JOIST GIRDER TO PANEL COLUMN
3/4" = 1'-0"

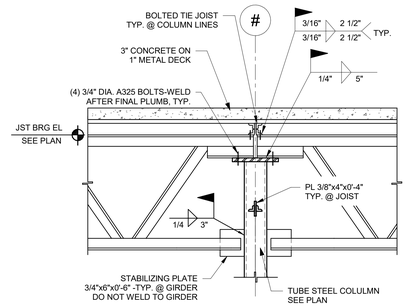


2 SECTION AT WF COL TO ROOF GIRDERS 2
3/4" = 1'-0"



NOTE: SEE PANEL REINFORCEMENT DETAILS FOR ADDITIONAL STEEL AT GIRDER LOCATIONS. USE A2 PLATE WITH COMMON STUDS FOR JOIST GIRDERS EA SIDE OF WALL

3 SECTION AT JOIST GIRDER TO WALL
3/4" = 1'-0"

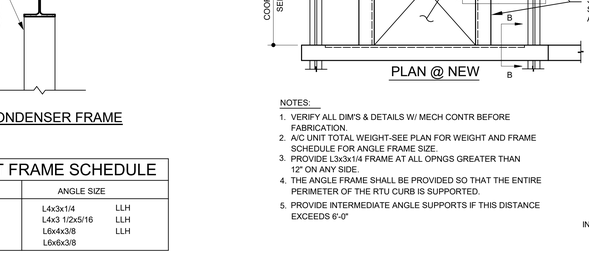


4 SECTION AT JOIST GIRDER TO TS COL 3+1
3/4" = 1'-0"

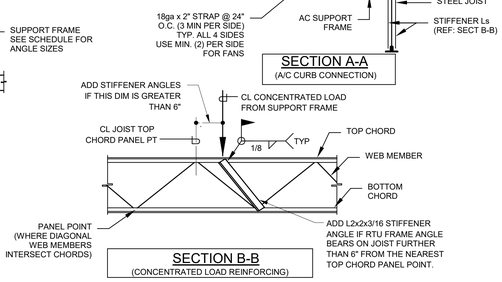
5 SECTION AT JOIST TO GIRDER 3+1
3/4" = 1'-0"



6 SECTION AT LH JOIST BEARING 3+1
3/4" = 1'-0"



7 SECTION AT DECK OVER PANEL
3/4" = 1'-0"



8 SECTION AT BRIDGING 3+1
3/4" = 1'-0"

9 SECTION AT PANEL JOINT 3+1
3/4" = 1'-0"

NOTE: PROVIDE 4 BOLTS FOR REACTIONS <= 40 KIPS
PROVIDE 5 BOLTS FOR REACTIONS <= 50 KIPS

10 SECTION AT BEAM TO TS COLUMN
3/4" = 1'-0"

AT CONDENSER FRAME

ROOF TOP UNIT FRAME SCHEDULE		
UNIT WEIGHT	ANGLE SIZE	
0 - 675 lbs	L4x3x1/4	LLH
676 - 1500 lbs	L4x3 1/2x5/16	LLH
1501 - 3000 lbs	L6x4x3/8	LLH
3001 - 6000 lbs	L6x6x3/8	

PLAN @ NEW

NOTES:
1. VERIFY ALL DIM'S & DETAILS W/ MECH CONTR BEFORE FABRICATION.
2. A/C UNIT TOTAL WEIGHT-SEE PLAN FOR WEIGHT AND FRAME SCHEDULE FOR ANGLE FRAME SIZE.
3. PROVIDE L3x3x1/4 FRAME AT ALL OPNGS GREATER THAN 12" ON ANY SIDE.
4. THE ANGLE FRAME SHALL BE PROVIDED SO THAT THE ENTIRE PERIMETER OF THE RTU CURB IS SUPPORTED.
5. PROVIDE INTERMEDIATE ANGLE SUPPORTS IF THIS DISTANCE EXCEEDS 6'-0"

A MECH ROOF SUPPORT DETAILS
3/4" = 1'-0"

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2125 AVENUE S.
RIVIERA BEACH, FL
33404

PROJECT NUMBER

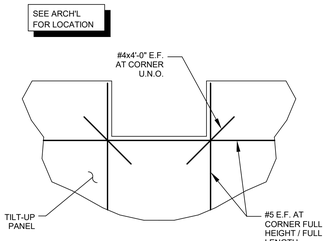
JSG #24115

SHEET TITLE

ROOF FRAMING DETAILS

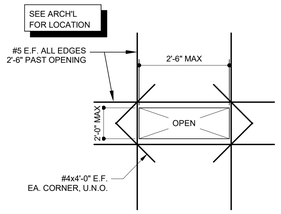
SHEET NUMBER

S4.2E



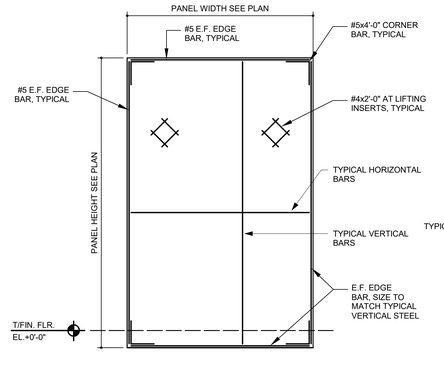
1 NOTCH REINFORCEMENT

SCALE:N.T.S.

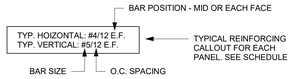


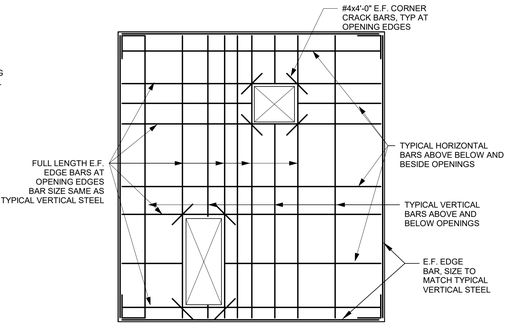
2 TYP. SCUPPER/SMALL MECH

SCALE:N.T.S.



TYPICAL PANEL DETAILS



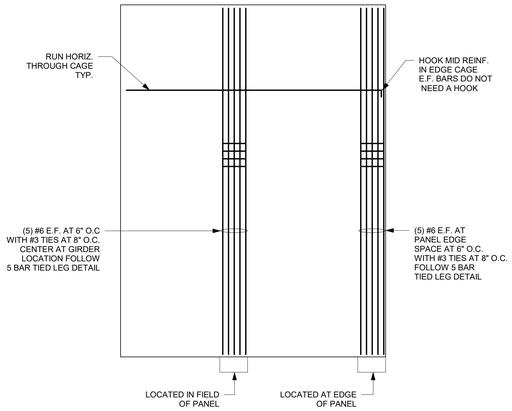


TYPICAL PANEL DETAILS

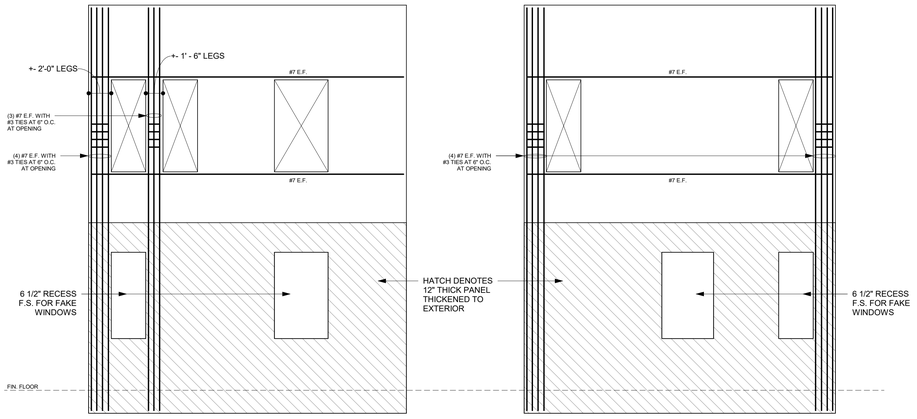
PANEL REINFORCING SCHEDULE

PANEL NUMBERS	THICKNESS	TYPICAL REINFORCEMENT VERTICAL	TYPICAL REINFORCEMENT HORIZONTAL	NOTES
P-1, P-3 THRU P-8	8.00" / 12.00"	#7/12 E.F.	#4/12 E.F.	SEE S5.0E FOR ADD. BARS
P-2	8.00"	#6/12 E.F.	#4/12 E.F.	
LP-1	16.00"	#5/10 E.F.	#5/10 E.F.	HOOK LONG BOTTOM BARS
TP-1, TP-2	16.00"	(5) #7 E.F.	#3 TIES @ 10" O.C.	TIED COLUMN CAGE
P-9 (8"/12"), P-10, P-11	8.00"	#6/10 E.F.	#4/12 E.F.	SEE S5.1E FOR ADD. BARS
P-22, P-23, P-25	8.00"	#6/10 E.F.	#4/12 E.F.	(2) #6 E.F. VERT W/ #3 TIES AT 6" O.C. AT OPN'G AT MAN DOOR LEG FOR PANEL P-25. ADD GIRDER CAGE FOR PANEL P-23
P-16, P-41	8.00"	#5/10 MID	#4/12 MID	SEE S5.1E FOR ADD. BARS
P-2A, P-12 THRU P-15, P-18, P-19 P-37 THRU P-40, SP-1	8.00"	#5/12 MID	#4/12 MID	ADD GIRDER CAGE FOR PANEL P-19
P-28, P-29, P-32 THRU P-35	8.00"+4.00"	#5/12 MID	#4/12 MID	
P-30, P-31	8.00"+4.00"	#6/10 MID	#4/12 MID	
P-36	8.00"	#6/10 MID	#4/12 MID	
P-20, P-21	9.25"			SEE S5.1E FOR REINF.
P-26, P-27	14.00"			SEE S5.1E FOR REINF.

8.00" + 4.00" ARE INSULATED PANELS WITH AN 8" MAIN STRUCTURAL WYTHE, 4" OF THERMOMASS INSULATION, AND A 4.00" THICK FACING LAYER. THE FACING LAYER TO BE REINFORCED WITH 6x6 W2.9xW2.9 WWF CHAIRED MID-HEIGHT OF WYTHE. REFER TO THE THERMOMASS WEB SITE FOR ADDITIONAL INFORMATION.

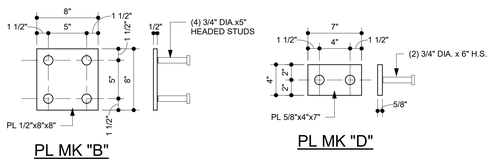


TYPICAL GIRDER REINFORCEMENT DETAILS



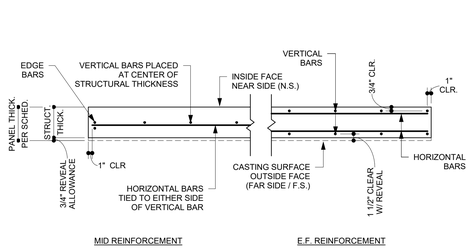
P-1, P-3, P-5, P-7, P-8

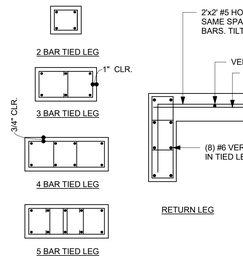
P-4,P-6



PL MK "B"

PL MK "D"

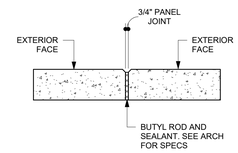




A REINFORCEMENT PLACEMENT DIAGRAM

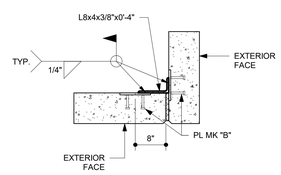
3/4" = 1'-0"

PROVIDE MINIMUM TWO (4) CONNECTIONS PER LEVEL BETWEEN PANELS AT INSIDE BUTT, OUTSIDE BUTT, AND MITER CORNERS ONLY, U.N.O. ON PLAN (DETAILS C, D, AND E BELOW). PROVIDE DETAIL F ONLY WHERE INDICATED ON PLAN. LOCATE CONNECTIONS AT 2'-0" A.F.F. (GROUND) AND AT 2'-0" BELOW SECOND FLOOR OR ROOF TRUSS BEARING TYPICAL U.N.O. RECESS ALL PLATES 3/4" AT ALL LOCATIONS EXCEPT FOR THE GUN RANGE AREA. IF CALLOUT DOES NOT SPECIFY SPACING, SPACE CONNECTIONS EQUALLY BETWEEN FLOORS. RECESS ALL EMBED CONNECTIONS EXPOSED TO WEATHER 3/4" AND PATCH AFTER INSPECTION



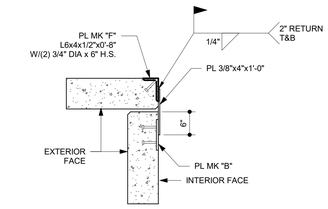
B TYPICAL PANEL JOINT

3/4" = 1'-0"



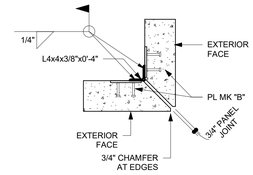
C OUTSIDE BUTT JOINT

3/4" = 1'-0"



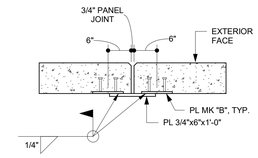
D INSIDE BUTT JOINT

3/4" = 1'-0"



E MITER CORNER

3/4" = 1'-0"



F PANEL-PANEL CONNECTION

3/4" = 1'-0"

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DATE STAMP: 10/23/2025 11:51:28 AM

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
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CONTRACTOR/DEVELOPER

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REGISTRATION

MARK JOHNSON LICENSE NO. 51983 STATE OF FLORIDA PROFESSIONAL ENGINEER

DRAWING HISTORY

№	DATE	DESCRIPTION
A	04/04/2025	100% Design Development
B	07/22/2025	50% Construction Documents
C	09/18/2025	90% Construction Documents
D	10/14/2025	90% Construction Documents / Permit Set

J2 ARCHITECTURE

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PROJECT STATUS

90% CDs / PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RIVIERA BEACH POLICE DEPARTMENT EVIDENCE AND FIRE RANGE

PROJECT LOCATION

2125 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

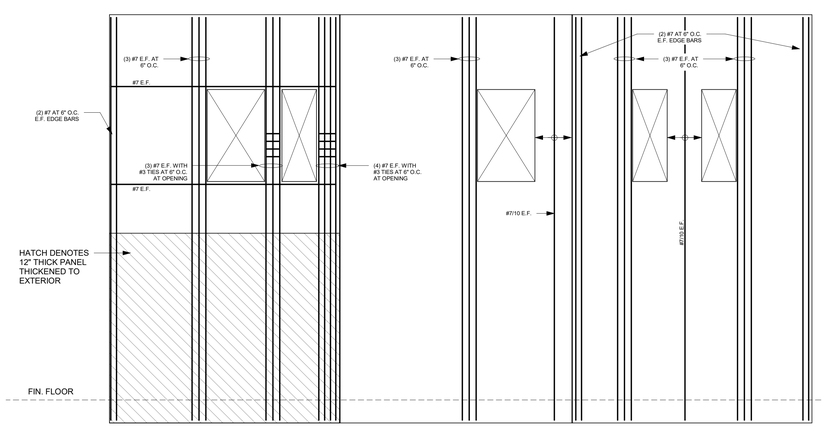
JSG #24115

SHEET TITLE

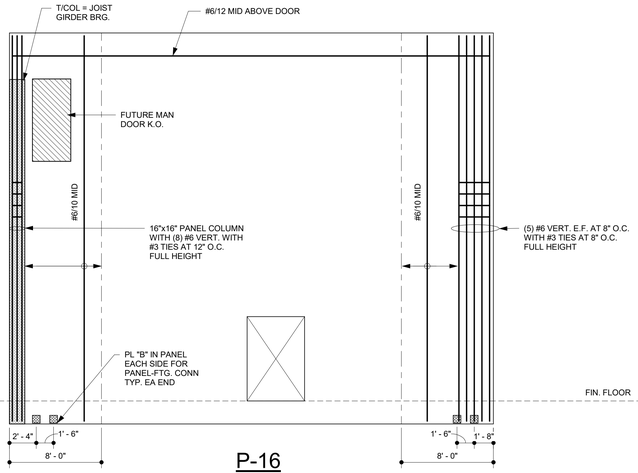
PANEL DETAILS

SHEET NUMBER

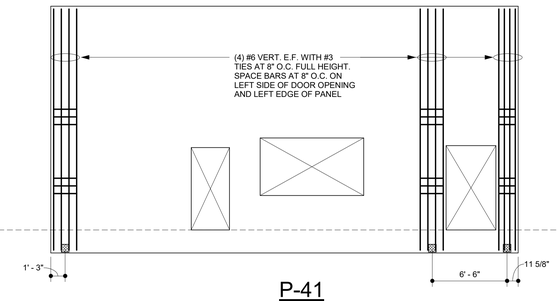
S5.0E



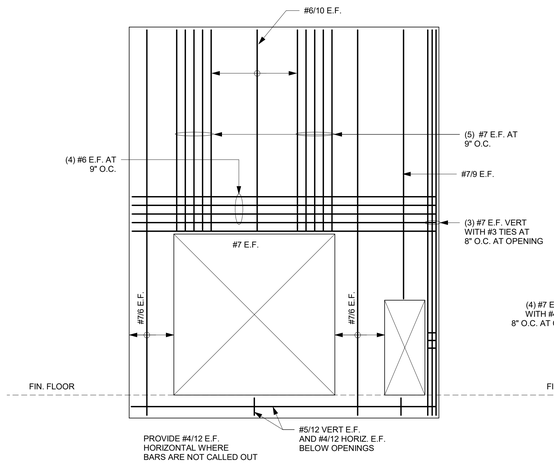
P-9 P-10 P-11



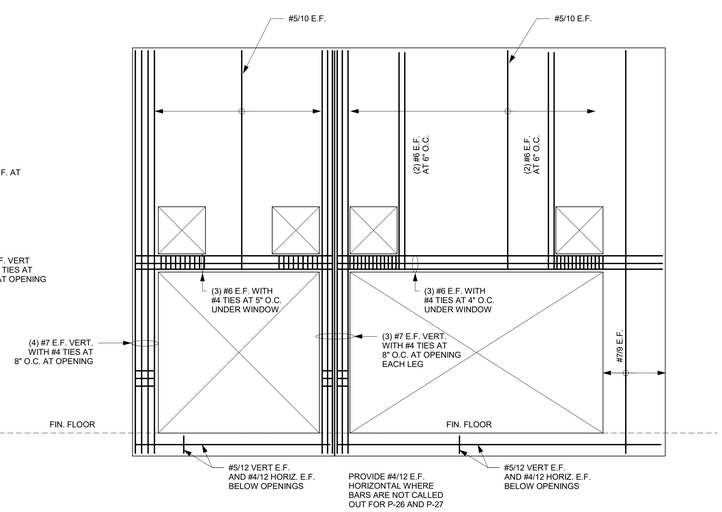
P-16



P-41



P-20, P-21 MIRROR



P-26 P-27

CLIENT

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DRAWING HISTORY

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PROJECT STATUS
90% CDs / PERMIT SET

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10/14/2025

PROJECT NAME
RIVIERA BEACH POLICE DEPARTMENT EVIDENCE AND FIRE RANGE

PROJECT LOCATION
2125 AVENUE S.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
JSG #24115

SHEET TITLE
PANEL DETAILS

SHEET NUMBER
S5.1E

FILE NAME: C:\JSG\JSG C Drive\24115- Riviera Beach Police\Revit 2024\24115 RBPD_EFR_S_R24_Clear Span.rvt
DATE STAMP: 10/23/2025 11:51:29 AM

FIRE PROTECTION DESIGN CRITERIA:

61G15-32.003 (1) (2) (5)

(1) SCOPE OF WORK:
NEW CONSTRUCTION BUILDING:
FIRE PROTECTION SYSTEM FOR NEW CONSTRUCTION 1 STORY WITH A MEZZANINE EVIDENCE AND FIRING RANGE BLDG.

BUILDING SHALL BE PROTECTED WITH A WET AUTOMATIC FIRE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13, 2019 EDITION.

THE EXISTING CITY SUPPLY PRESSURE SHALL BE BOOSTED BY A ELECTRICAL FIRE PUMP SYSTEM IN ACCORDANCE WITH NFPA 20, 2019 EDITION

(2) ACCEPTANCE TEST CRITERIA:
TESTING OF FIRE PROTECTION SYSTEM AND ITS COMPONENTS SHALL COMPLY WITH ALL APPLICABLE ITEMS PER NFPA 13, 2019 EDITION, FIGURES 6.10.1 AND 28.1, CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR ABOVE AND UNDERGROUND PIPING.

SYSTEMS SHALL BE HYDROSTATICALLY TESTED AT NOT LESS THAN 200 PSI PRESSURE FOR 2 HOURS, OR AT 50 PSI IN EXCESS OF THE MAXIMUM PRESSURE, WHEN THE MAXIMUM PRESSURE TO BE MAINTAINED IN THE SYSTEM IS IN EXCESS OF 150 PSI.

THE TESTING PRESSURE SHALL BE READ FROM A GAUGE LOCATED AT THE LOW ELEVATION POINT OF THE INDIVIDUAL SYSTEM OR PORTION OF THE SYSTEM BEING TESTED.

THE CONTRACTOR SHALL PERFORM ALL REQUIRED ACCEPTANCE TESTS IN ACCORDANCE WITH NFPA-13. COMPLETE THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE(S), AND FORWARD THE APPROVED CERTIFICATE(S) TO THE ARCHITECT/ENGINEER FOR APPROVAL OF THE INSTALLATION.

ALL TEST CERTIFICATE(S) SHALL BE DATED, SIGNED AND WITNESSED BY AHJ. SUBMIT ONE COPY OF EACH TEST CERTIFICATE TO ARCHITECT/ENGINEER.

(5) STRUCTURAL SUPPORT AND STRUCTURAL OPENINGS:
THE SUPPORT SYSTEMS FOR THIS BUILDING SHALL BE DESIGNED BY A STATE LICENSED STRUCTURAL ENGINEER IN ACCORDANCE WITH F.A.C., PLEASE REFER TO STRUCTURAL DRAWINGS FOR LIVE AND DEAD LOADING INFORMATION. THERE ARE NO SIGNIFICANT STRUCTURAL OPENINGS THAT WILL BE REQUIRED FOR THIS FIRE SPRINKLER SYSTEM.

61G15-32.004 (2) (A-M)

A. POINT OF SERVICE:
POINT OF CONNECTION SHALL BE TO AN EXISTING WATER SUPPLY MAIN ON SITE. POINT OF SERVICE OCCURS WHEN THE UNDERGROUND PIPING FOR THE FIRE SPRINKLER SYSTEM BECOMES EXCLUSIVELY FOR THE FIRE PROTECTION SYSTEM. ONE FIRE DEPARTMENT CONNECTION SHALL LOCATED ON SITE. REFER TO CIVIL UTILITY SITE DRAWINGS FOR LOCATION OF POS AND FDC.

B. APPLICABLE NFPA STANDARD TO BE APPLIED:
- FLORIDA FIRE PREVENTION CODE 8TH EDITION
- NFPA 13, 2019 EDITION
- *NFPA 20, 2019 EDITION*
- NFPA 24, 2019 EDITION
- NFPA 25, 2020 EDITION

C. CLASSIFICATION OF HAZARD OCCUPANCY OF EACH AREA OR ROOM:
LIGHT HAZARD OCCUPANCIES INCLUDE OCCUPANCIES HAVING USES AND CONDITIONS SIMILAR TO THE FOLLOWING: OFFICE SPACES, BATHROOMS AND CORRIDORS.

ORDINARY HAZARD GROUP I OCCUPANCIES INCLUDE OCCUPANCIES HAVING USES AND CONDITIONS SIMILAR TO THE FOLLOWING: STORAGE ROOMS, ELECTRICAL ROOMS, MECHANICAL ROOMS, IDF ROOMS AND IT ROOMS.

ORDINARY HAZARD GROUP II OCCUPANCIES INCLUDE OCCUPANCIES HAVING USES AND CONDITIONS SIMILAR TO THE FOLLOWING: FIRE RANGE.

EXTRA HAZARD GROUP II OCCUPANCIES INCLUDE OCCUPANCIES HAVING USES AND CONDITIONS SIMILAR TO THE FOLLOWING: EVIDENCE VEHICLE STORAGE.

REFER TO FIRE PROTECTION DRAWINGS FOR ALL ROOM HAZARD OCCUPANCY CLASSIFICATIONS.

D. DESIGN APPROACH:

DENSITY/AREA:
ORDINARY HAZARD GROUP II:
0.20 GPM/SQ.FT. OVER THE MOST DEMANDING 1500 SQ. FT. AREA OF SPRINKLER OPERATION. AN ADDITIONAL 250 GPM SHALL BE ADDED FOR A TOTAL COMBINED INSIDE AND OUTSIDE HOSE STREAM DEMAND.

EXTRA HAZARD GROUP II:
0.40 GPM/SQ.FT. OVER THE MOST DEMANDING 2500 SQ. FT. AREA OF SPRINKLER OPERATION. AREA OF OPERATION WAS REDUCED BY 25% PER NFPA 13, SECTION 19.3.3.2.6 FOR USE OF HIGH TEMPERATURE SPRINKLER HEADS. AN ADDITIONAL 250 GPM SHALL BE ADDED FOR A TOTAL COMBINED INSIDE AND OUTSIDE HOSE STREAM DEMAND.

SPRINKLER HEADS:
QUICK RESPONSE, 155°F UNLESS OTHERWISE NOTED.

SPACING:
STANDARD COVERAGE HEADS:
PENDENT AND UPRIGHT SPRINKLER HEADS, MAXIMUM PROTECTION SHALL BE 225 SQ. FT. FOR ALL LIGHT HAZARD AREAS, AND 130 SQ. FT. FOR ALL ORDINARY HAZARD GROUP I AND II AREAS. (MAXIMUM SPACING SHALL BE 15'-0" AND MINIMUM SPACING SHALL BE 6'-0")

EXTENDED COVERAGE SIDEWALL SPRINKLER HEADS, MAXIMUM PROTECTION SHALL BE 288 SQ. FT. (MAXIMUM SPACING SHALL BE 18'-0" AND MINIMUM SPACING SHALL BE 8'-0")

EXTENDED COVERAGE SPRINKLER HEADS:
PENDENT/ UPRIGHT SPRINKLER HEADS, MAXIMUM PROTECTION SHALL BE 324 SQ. FT. (MAXIMUM SPACING SHALL BE 18'-0" AND MINIMUM SPACING SHALL BE 9'-0" FOR PENDENTS AND 8'-0" FOR UPRIGHTS)

E. CHARACTERISTICS OF THE WATER SUPPLY TO BE USED:
THE EX. WATER MAIN IS AN 10" CIRCULATING MAIN LOCATED ON THE AVENUE S. BASED ON THE FLOW TEST DATA RECEIVED, THE DURATION WILL SUPPORT THE DESIGN CRITERIA. A NEW 8" UNDERGROUND WATER MAIN CONNECTS TO AN EX. 10" UNDERGROUND WATER SUPPLY ADJACENT THE BUILDINGS. THE NEW 8" UNDERGROUND MAIN CONNECTS TO THE SITE BACKFLOW DEVICE BEFORE EXTENDING TO THE SITE FIRE PUMP SYSTEM. A NEW 8" BOOSTED SUPPLY MAIN IS ROUTED FROM THE SITE FIRE PUMP SYSTEM TO ALL BUILDING ON SITE.

F. FLOW TEST DATA:
FLOW TEST RESULTS PERFORMED ON, 04-22-2025,: REFER TO FIRE HYDRANT FLOW TEST DATA THIS SHEET FOR CLARIFICATION.

G. VALVE AND ALARM REQUIREMENTS TO MINIMIZE POTENTIAL FOR IMPAIRMENTS AND UNRECOGNIZED FLOW OF WATER:
ALL PADDLE TYPE WATER FLOW INDICATORS SHALL HAVE A FLOW SWITCH. ALL VALVES CONTROLLING THE FIRE SPRINKLER SYSTEMS, INCLUDING BACKFLOW DEVICE, SHALL HAVE TAMPER SWITCHES. ALL ELECTRICAL DEVICES SHALL BE MONITORED BY CENTRAL STATION OR SIMILAR AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION AND SHALL BE IN COMPLIANCE WITH NFPA 72.

H. MICROBIAL INDUCED CORROSION (MIC):
CONTRACTOR SHALL ORDER AND OBTAIN A TEST LAB REPORT INDICATING THAT NO MIC IS PRESENT IN THE SYSTEM.

PROVIDE WITH TYCO TAV-W AUTOMATIC AIR VENT. LOCATE AT HIGHEST REMOTE PART OF SPRINKLER SYSTEM.

I. BACKFLOW PREVENTION AND METERING SPECIFICATIONS:
THE BACKFLOW PREVENTION AND METERING EQUIPMENT SHALL BE INSTALLED BY A MINIMUM OF A CLASS V CONTRACTOR AS LICENSED BY THE STATE FIRE MARSHAL. THE MAXIMUM ALLOWABLE PRESSURE LOSS ACROSS THE DEVICE SHALL BE 5 PSI AT SYSTEM DEMAND.

J. QUALITY AND PERFORMANCE SPECIFICATIONS OF ALL YARD AND INTERIOR FIRE PROTECTION COMPONENTS:
ALL YARD AND INTERIOR FIRE PROTECTION COMPONENTS SHALL BE FM APPROVED AND UL LISTED.

K. FIRE PUMP REQUIREMENTS:
AURORA INLINE ELECTRICAL FIRE PUMP MODEL 8-383-15 1,000 GPM @ 60 PSI -75 HP, 3 PHASE, 460V, 60HZ

L. WATER STORAGE TANK:
WATER STORAGE TANK WILL NOT BE REQUIRED.

M. STORAGE OCCUPANCY REQUIREMENTS:
MISCELLANEOUS STORAGE OCCUPANCY IN ACCORDANCE WITH NFPA 13, 2019 EDITION CHAPTER 4.

OWNER'S INFORMATION CERTIFICATE AS DEPICTED IN NFPA 13 FIGURE A.27.1(b) SHALL BE PROVIDE BY OWNER FOR AHJ REVIEW AND VERIFICATION OF ANY POSSIBLE STORAGE.

FIRE PROTECTION GENERAL NOTES:

1. THE FIRE PROTECTION SYSTEM SHOWN REPRESENT THE DESIGN INTENT OF THE ENGINEER OF THE RECORD IN ACCORDANCE WITH STATE REGULATION 61G15-32. CONTRACTOR SHALL PROVIDE LAYOUT DRAWINGS AND ASSOCIATED HYDRAULIC CALCULATIONS PER DESIGN CRITERIA PROVIDED BY THE ENGINEER OF THE RECORD.
2. DESIGN AND INSTALLATION OF FIRE PROTECTION SYSTEM SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
   - FLORIDA FIRE PREVENTION CODE 8TH EDITION
   - NFPA 13, 2019 EDITION
   - NFPA 20, 2019 EDITION
   - NFPA 24, 2019 EDITION
   - NFPA 25, 2020 EDITION
3. ALL HANGERS & MATERIALS SHALL BE IN ACCORDANCE WITH NFPA 13 STANDARDS.
4. METHODS OF HANGING PIPES, HEADERS AND BRANCHES SHALL BE APPROVED BY NFPA-13. ALL HANGERS ON 4" PIPE AND LARGER IS TO BE CLEVIS TYPE HANGERS. POWDER DRIVEN STUDS SHALL NOT BE PERMITTED. ALL HANGERS SHALL BE U.L./F.M. APPROVED.
5. FIRE PROTECTION CONTRACTOR SHALL UTILIZE ONLY U.L. LISTED AND FM APPROVED MATERIALS AND EQUIPMENT THROUGHOUT THE FIRE SPRINKLER SYSTEM.
6. ALL YARD AND INTERIOR FIRE PROTECTION EQUIPMENT SHALL BE UL LISTED AND FM APPROVED. THE YARD UNDERGROUND SERVICE LINE SHALL BE TYPE DR-14, C900, CPVC PIPE. INTERIOR MAIN PIPING, 2-1/2" AND LARGER, SHALL BE SCHEDULE 10 BLACK STEEL, WITH GROOVED END FITTINGS AND WELDED BRANCH LINE OUTLETS. BRANCH LINE PIPING, 2" AND SMALLER, SHALL BE SCHEDULE 10 BLACK STEEL WITH GROOVED END FITTINGS AND WELDED OUTLETS AND/ OR SCHEDULE 40 WITH THREADED ENDS. SPRIGS, ARM-OVERS AND DROPS SHALL BE SCHEDULE 40 STEEL WITH THREADED ENDS. ALL PIPING AND FITTINGS EXPOSED TO THE OUTSIDE ELEMENTS OR CORROSIVE ENVIRONMENTS SHALL BE GALVANIZED MATCHING THE CRITERIA ABOVE.
7. ALL METAL HANGERS, SUPPORTS, THREADED ROD, ETC. EXPOSED TO THE OUTSIDE ELEMENTS OR CORROSIVE ENVIRONMENTS SHALL BE HOT DIPPED GALVANIZED.
8. ALL UNDERGROUND PIPING SHALL BE ADEQUATELY SUPPORTED. ALL UNDERGROUND PIPING SHALL BE BURIED AT LEAST 12 INCHES BELOW THE FROST LINE FOR THE LOCALITY OR A MINIMUM OF 36 INCHES BELOW FINISH GRADE IF FROST IS NOT APPLICABLE.
9. SPRINKLER SYSTEMS SHALL HAVE AN UNDERGROUND FLUSH COMPLETED AT THE TIME OF HYDROSTATIC TEST. FLUSHING SHALL BE COMPLETED PRIOR TO CONNECTING THE UNDERGROUND PIPING TO THE OVERHEAD PIPING.
10. SPRINKLER SYSTEMS SHALL BE HYDROSTATICALLY TESTED FOR 2 HOURS AT 200 PSI OR 50 PSI IN EXCESS OF NORMAL WORKING PRESSURE WHEN NORMAL WORKING PRESSURE EXCEEDS 150 PSI.
11. SUITABLY PROTECT ALL EQUIPMENT FURNISHED DURING CONSTRUCTION ALL RUBBISH OCCASIONED BY THIS INSTALLATION SHALL BE PERIODICALLY REMOVED FROM THE PREMISES AND ALL EXPOSED WORK SHALL BE THOROUGHLY CLEANED PRIOR TO FINAL ACCEPTANCE. RESTORE ANY DAMAGED SURFACES AND ITEMS TO "LIKE NEW" CONDITION BEFORE A REQUEST FOR FINAL ACCEPTANCE.
12. UNTIL SYSTEM IS COMPLETED, TESTED AND ACCEPTED, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF LEAKS, AND ACCIDENTAL BREAKS.
13. CONTRACTOR SHALL GUARANTEE IN WRITING, HIS RESPONSIBILITY FOR DEFECTIVE MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FORM THE DATE OF FINAL ACCEPTANCE ISSUED BY THE ARCHITECT AND CORRECT ANY DEFICIENCIES, LABOR AND MATERIALS, WITHOUT ADDITIONAL COST TO OWNER.
14. ALL EXPOSED SPRINKLER PIPING SHALL BE PAINTED. COORDINATE ALL PAINTING REQUIREMENTS/ COLORS WITH ARCHITECTURAL DRAWINGS.
15. FIRE SPRINKLER CONTRACTOR SHALL NOT ROUTE ANY FIRE PROTECTION PIPING ABOVE ELECTRICAL PANELS, OFFSET OR REROUTE AS REQUIRED.
16. ALL SPRINKLER HEADS EXPOSED TO THE OUTSIDE ELEMENTS SHALL BE UL LISTED CORROSION RESISTANT.
17. PROVIDE ADDITIONAL SPRINKLER HEADS UNDER HVAC DUCT WORK OR OBSTRUCTION EQUAL TO AND EXCEEDING 4' IN WIDTH.
18. ALL SPRINKLER HEADS SHALL BE CENTERED TO THE CEILING TILES.
19. ALIGN ALL SPRINKLER HEADS WITH CEILING LIGHT FIXTURES AND MECHANICAL DIFFUSERS.
20. PROVIDE SPRINKLER HEAD GUARDS THAT ATTACH ONLY TO THE PIPE AND NOT THE FIRE SPRINKLER HEAD (SPRINKGUARD OR APPROVED EQUAL) FOR ALL HEADS LOCATED WITHIN MECHANICAL ROOMS, ELECTRICAL ROOMS, ELEVATOR PITS, BENEATH STAIRS, STORAGE ROOMS OR LOCATED BELOW 7'-6"
21. FIRE SPRINKLER HEADS IN EXPOSED OBSTRUCTED CONSTRUCTION AREAS (AREAS CONTAINING STRUCTURAL BEAMS) SHALL BE INSTALLED BELOW THE STRUCTURAL MEMBERS UP TO A MAXIMUM OF 22" BELOW THE CEILING AVOIDING OBSTRUCTION TO DISCHARGE IN CONFORMANCE WITH NFPA 13, 2019 EDITION SECTION 10.2.6.1.2 (1), (2), AND (4).
22. FIRE PROTECTION CONTRACTOR SHALL COMPLY WITH NFPA 13, 2019 EDITION TABLES 10.2.7.1.2 (A), (B), & (C) TO AVOID OBSTRUCTION TO SPRINKLER HEAD DISCHARGE. FIRE PROTECTION CONTRACTOR SHALL THOROUGHLY COORDINATE FIRE SPRINKLER HEAD PLACEMENTS WITH ALL STRUCTURAL/ ARCHITECTURAL OBSTRUCTIONS.
23. ONLY NEW SPRINKLERS SHALL BE EMPLOYED IN THE INSTALLATION OF SPRINKLER SYSTEMS. AT LEAST TWELVE SPARE SPRINKLER HEADS OF EACH TYPE, TEMPERATURE RATING, AND ORIFICE SIZE USED IN THE SYSTEMS SHALL BE KEPT IN THE PREMISES. REPLACEMENT SPRINKLERS SHALL HAVE THE SAME OPERATING CHARACTERISTICS AS THE SPRINKLER HEADS BEING REPLACED.
24. PROVIDE ADEQUATE DRAIN PER NFPA - 13.
25. EACH SPRINKLER SYSTEM SHALL HAVE A DRAIN AND TEST CONNECTION WITH A VALVE ON THE SYSTEM SIDE OF THE CONTROL VALVE.
26. WATER FLOW TEST CONNECTIONS SHALL BE PROVIDED AT LOCATIONS THAT ALLOW FLOW TESTING OF WATER SUPPLIES, CONNECTIONS, AND ALARM MECHANISMS.
27. PROVIDE FLUSHING CONNECTIONS AT REMOTE END OF ALL CROSS MAINS AND AT ALL LOW ENDS. ROUTE ALL DRAIN PIPING TO THE GROUND LEVEL AND DISCHARGE TO THE EXTERIOR OF THE BUILDING OR STORM DRAINAGE SYSTEM.
28. SPRINKLER ZONES WITH DEAD END MAINS OR MORE THAN ONE REMOTE END, PROVIDE WITH INSPECTORS TEST AND DRAINS TO EACH END MAIN AND REMOTE END. ROUTE ALL DRAIN PIPING TO THE GROUND LEVEL AND DISCHARGE TO THE EXTERIOR OF THE BUILDING OR STORM DRAINAGE SYSTEM.
29. FIRE PROTECTION CONTRACTOR SHALL THOROUGHLY COORDINATE ALL HEADS, HANGERS, PIPING AND ALL OTHER ASSOCIATED MATERIAL LOCATIONS WITH MECHANICAL, PLUMBING, ELECTRICAL AND ALL STRUCTURAL OBSTRUCTIONS. IT IS THE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES TO AVOID CONFLICTS.
30. REFER TO ARCHITECTURAL REFLECTED CEILING AND ELECTRICAL LIGHTING DRAWINGS FOR CEILING DESCRIPTIONS AND HEIGHTS.
31. ALL VALVES SHALL HAVE A PERMANENTLY AFFIXED SIGN INDICATION ITS FUNCTION.
32. ALARMS SHALL BE OF SUFFICIENT INTENSITY TO BE CLEARLY AUDIBLE IN OVER BACKGROUND NOISE LEVELS WITH ALL INTERVENING DOORS CLOSED.
33. (4) 2-1/2" FIRE DEPARTMENT CONNECTIONS SHALL BE PROVIDED.
34. FIRE STOP ALL PENETRATIONS OF SMOKE/FIRE WALLS. FIRE STOPPING SHALL BE OF U.L. LISTED ASSEMBLY.
35. NOT ALL PIPING, VALVES AND APPURTENANCES ARE SHOWN ON PLANS. REFER TO PIPING RISER DIAGRAMS, DETAILS, AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
36. THE SYSTEM SHALL BE DESIGNED AND HYDRAULICALLY CALCULATED IN ACCORDANCE WITH NFPA 13 AND SPRINKLERS MANUFACTURER REQUIREMENTS.
37. ALL WIRING OF FLOW SWITCHES AND ANY FIRE PROTECTION DEVICES IS DONE BY ELECTRICAL SUBCONTRACTOR.
38. SEPARATE FIRE SPRINKLER PERMIT DRAWINGS SHALL BE SUBMITTED BY INSTALLING CONTRACTOR FOR REVIEW.

UNDERGROUND GENERAL NOTES

1. ALL UNDERGROUND SHALL BE INSTALLED BY A STATE OF FLORIDA MINIMUM CLASS 5 LICENSED UNDERGROUND CONTRACTOR.
2. ALL UNDERGROUND PIPING TO BE C-900 PVC CLASS 200 DR-14
3. ALL PVC PIPE TO BE MARKED W/DETECTABLE UNDERGROUND MARKING TAPE.
4. ALL ABOVE GROUND STEEL PIPING TO BE PAINTED FOR CORROSION PROTECTION.
5. ALL MATERIALS, TESTING, METHOD OF RESTRAINT & INSPECTION SHALL CONFORM TO THE REQUIREMENTS OF NFPA 13 & 24.
6. FITTING RESTRAINTS, THRUST BLOCKS AND RODDING SHALL CONFORM TO NFPA 24.
7. MINIMUM BURY DEPTH SHALL NOT BE LESS THAN 3'-0"
8. ALL WATER LINES FOR FIRE SPRINKLER SYSTEMS SHALL BE TESTED AT 200 PSI FOR TWO (2) HOURS MINIMUM.
9. ALL EXTERIOR MATERIALS SHALL BE PROPERLY PROTECTED AGAINST EXPOSURE.
10. ALL WIRING BY OTHERS.
11. UNDERGROUND PIPING SHALL BE FLUSHED AS PER NFPA 24 BEFORE CONNECTING TO THE OVERHEADS FIRE SPRINKLER SYSTEM PIPING.
12. COMPLY WITH ALL LOCAL CODE REQUIREMENTS PRIOR CONNECTION TO THE FIRE SERVICE WATER SYSTEM.

ABBREVIATIONS

ABV	ABOVE
APPROX	APPROXIMATELY
ASP	AUTOMATIC STANDPIPE
ASSY	ASSEMBLY
BFF	BELOW FINISHED FLOOR
BFV	BUTTERFLY VALVE
CONT	CONTINUATION
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DN	DOWN
EL	ELEVATION
FCA	FLOOR CONTROL ASSEMBLY
PRFCA	PRESSURE REDUCING FLOOR CONTROL ASSEMBLY
FDC	FIRE DEPARTMENT CONNECTION
FHV	2-1/2" FIRE HOSE VALVE
FHVC	2-1/2" FIRE HOSE VALVE IN CABINET
FS	FLOW SWITCH
GPM	GALLONS PER MINUTE
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
POC	POINT OF CONNECTION
PRFHV	PRESSURE REDUCING HOSE VALVE
PRFHVC	PRESSURE REDUCING HOSE VALVE IN CABINET
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
RM	ROOM
SPCA	STANDPIPE CONTROL ASSEMBLY
SPR	SPRINKLER
TYP	TYPICAL
UG	UNDERGROUND
RN	RISER NIPPLE

FIRE PROTECTION DATA

LIGHT HAZARD OCCUPANCY CLASSIFICATION (L.H.)	
OCCUPANCY CLASSIFICATION:	LIGHT HAZARD
SYSTEM TYPE:	WET PIPE
DESIGN DENSITY:	.10 GPM/SQ.FT.
HYDRAULIC REMOTE AREA:	1500 SQ.FT. UNLESS OTHERWISE NOTED
SPRINKLER ORIFICE SIZE:	1/2" UNLESS OTHERWISE NOTED
DURATION OF SUPPLY:	30 MIN.
MAX. COVERAGE /SPRINKLER HEAD:	STANDARD COVERAGE HEADS: PENDENT AND UPRIGHT SPRINKLER HEADS, MAXIMUM PROTECTION SHALL BE 225 SQ. FT. (MAXIMUM SPACING SHALL BE 15'-0" AND MINIMUM SPACING SHALL BE 6'-0")
HOSE STREAM ALLOWANCE:	100 GPM
ORDINARY HAZARD GROUP I OCCUPANCY CLASSIFICATION (O.H.1)	
OCCUPANCY CLASSIFICATION:	ORDINARY HAZARD GROUP I
SYSTEM TYPE:	WET PIPE
DESIGN DENSITY:	.15 GPM/SQ.FT.
HYDRAULIC REMOTE AREA:	1500 SQ.FT. UNLESS OTHERWISE NOTED
SPRINKLER ORIFICE SIZE:	1/2" UNLESS OTHERWISE NOTED
DURATION OF SUPPLY:	60 MIN.
MAX. COVERAGE /SPRINKLER HEAD:	STANDARD COVERAGE HEADS: PENDENT AND UPRIGHT SPRINKLER HEADS, MAXIMUM PROTECTION SHALL BE 130 SQ. FT. (MAXIMUM SPACING SHALL BE 15'-0" AND MINIMUM SPACING SHALL BE 6'-0")
HOSE STREAM ALLOWANCE:	250 GPM
ORDINARY HAZARD GROUP II OCCUPANCY CLASSIFICATION (O.H.2)	
OCCUPANCY CLASSIFICATION:	ORDINARY HAZARD GROUP II
SYSTEM TYPE:	WET PIPE
DESIGN DENSITY:	.20 GPM/SQ.FT.
HYDRAULIC REMOTE AREA:	1500 SQ.FT. UNLESS OTHERWISE NOTED
SPRINKLER ORIFICE SIZE:	1/2" UNLESS OTHERWISE NOTED
DURATION OF SUPPLY:	60 MIN.
MAX. COVERAGE /SPRINKLER HEAD:	STANDARD COVERAGE HEADS: PENDENT AND UPRIGHT SPRINKLER HEADS, MAXIMUM PROTECTION SHALL BE 130 SQ. FT. (MAXIMUM SPACING SHALL BE 15'-0" AND MINIMUM SPACING SHALL BE 6'-0") EXTENDED COVERAGE SIDEWALL SPRINKLER HEADS, MAXIMUM PROTECTION SHALL BE 288 SQ. FT. (MAXIMUM SPACING SHALL BE 18'-0" AND MINIMUM SPACING SHALL BE 8'-0") EXTENDED COVERAGE SPRINKLER HEADS: PENDENT/ UPRIGHT SPRINKLER HEADS, MAXIMUM PROTECTION SHALL BE 324 SQ. FT. (MAXIMUM SPACING SHALL BE 18'-0" AND MINIMUM SPACING SHALL BE 9'-0" FOR PENDENTS AND 8'-0" FOR UPRIGHTS)
HOSE STREAM ALLOWANCE:	250 GPM
EXTRA HAZARD GROUP I OCCUPANCY (EH2)	
OCCUPANCY CLASSIFICATION:	EXTRA HAZARD GROUP 2
SYSTEM TYPE:	WET PIPE
DESIGN DENSITY:	.40 GPM/SQ.FT.
HYDRAULIC REMOTE AREA:	2500 SQ.FT. UNLESS OTHERWISE NOTED
SPRINKLER ORIFICE SIZE:	1/2" UNLESS OTHERWISE NOTED
DURATION OF SUPPLY:	90 MIN.
MAX. COVERAGE /SPRINKLER HEAD:	MAXIMUM PROTECTION SHALL BE 100 SQ.FT. (MAXIMUM SPACING SHALL BE 12'-0" AND MINIMUM SPACING SHALL BE 6'-0")
HOSE STREAM ALLOWANCE:	500 GPM

Riviera Beach
see what's beneath the surface

Hydrant Details

Hydrant ID: 5-0048

Address: 2024 Avenue S, West Palm Beach, FL 33404, US

Location Description:2075 AVE S

Manufacture	Model	Model Year	Size
Mueller	A-326	1997	5 1/4"
Barrel Type	Cap Color	Open Direction	Isolation Valve
Dry	Red	Right	Yes

Fire Flow Test Details

Date of Fire Flow	Operational Status	Port Diameter
04/22/2025 02:37:47 PM	OK	2.5
Static Pressure	Residual Pressure	Pitot Pressure
50	40	30.00

Flow Time	Flow GPM	Flow Base	Gallons Used
5.00	924.00	1672.00	4620.00
Lubricated	Chains Needed	Replaced Cap	Gasket Needed
Yes	No	No	No

Comment:Flow tested and re-painted Clow fire hydrant

City of Riviera Beach, Utility Special District

600 West Blue Heron Blvd, Riviera Beach, Florida 33404

Office: 561-845-4185, Web: www.rivierabeach.org

FIRE HYDRANT FLOW TEST DATA

1 GENERAL NOTES
1/8" = 1'-0"

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FL. REG. NO.: PE57743

REGISTRATION

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DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

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PROJECT STATUS

90% CONSTRUCTION DOCUMENTS/PERMIT SET

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10/14/2025

PROJECT NAME

RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION

1621 WEST BLUE HERON BLVD. RIVIERA BEACH, FL 33404

PROJECT NUMBER

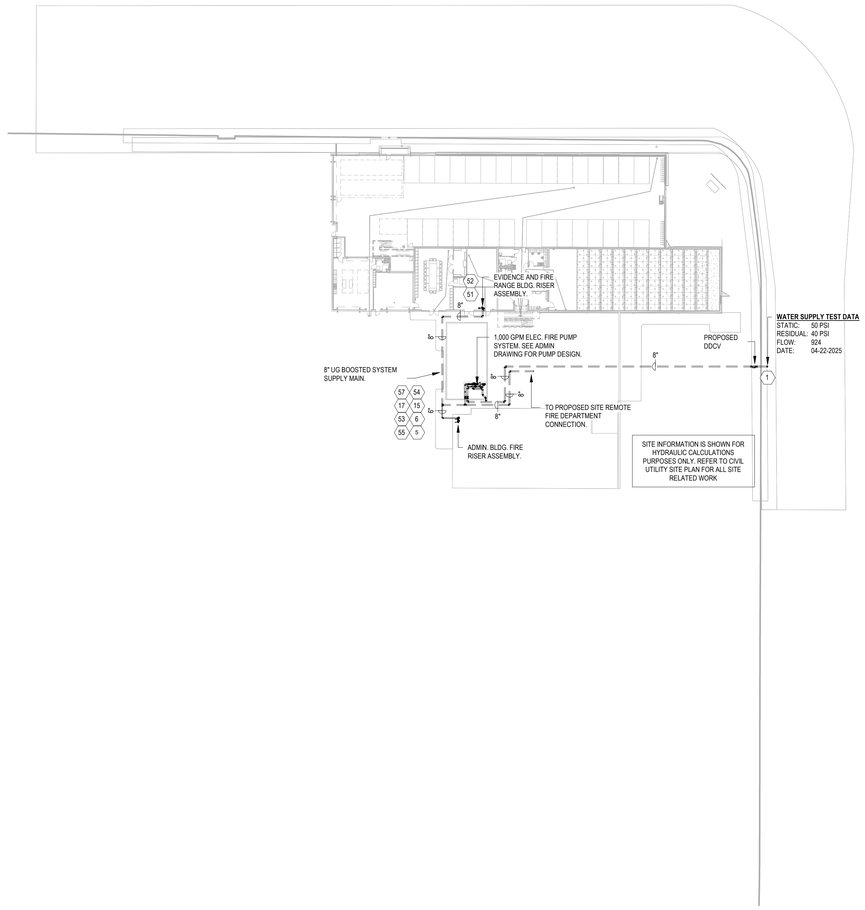
1007657.00

SHEET TITLE

GENERAL NOTES - FIRE PROTECTION

SHEET NUMBER

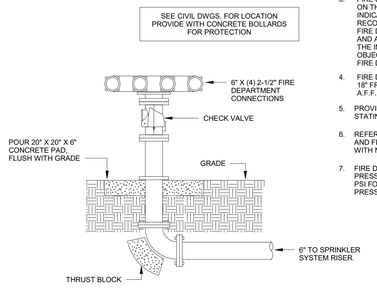
F0.01E



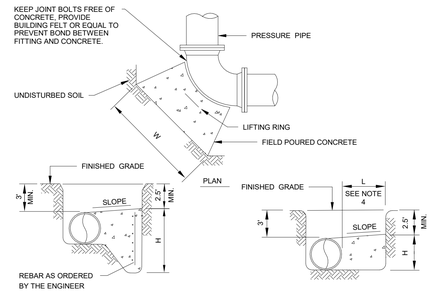
1 SITE PLAN - FIRE PROTECTION
1" = 40'-0"

FDC GENERAL NOTES

1. FIRE DEPARTMENT CONNECTION SHALL HAVE RAISED OR ENGRAVED 1" LETTERS STATING "AUTOSPRK" ON FITTING. SEE CIVIL FOR FDC REGULATORY TRAFFIC SIGN.
2. PROVIDE FIRE DEPARTMENT CONNECTION WITH A MINIMUM CLEARANCE OF 7-1/2" TO THE FRONT AND TO THE SIDES.
3. FIRE DEPARTMENT CONNECTIONS (FDC) SHALL BE LOCATED ON THE STREET SIDE OF BUILDINGS, FULLY VISIBLE, A SIGN INDICATING WHAT BUILDING(S) THEY PROTECT AND RECOGNIZABLE FROM THE STREET OR NEAREST POINT OF FIRE DEPARTMENT ACCESSIBILITY, AND SHALL BE LOCATED AND ARRANGED SO THAT HOSE LINES CANBE ATTACHED TO THE INLETS WITHOUT INTERFERENCE FROMNEARBY OBJECTS, INCLUDING BUILDINGS, FENCES, POST, OR OTHER FIRE DEPARTMENT CONNECTIONS.
4. FIRE DEPARTMENT CONNECTION SHALL NOT BE LESS THAN 18" FROM A.F.F. AND NOT EXCEED MORE THAN 36" FROM A.F.F.
5. PROVIDE SIGN 12" WIDE X 18" HIGH MOUNTED 7'-0" A.F.F. STATING NO PARKING - FIRE DEPARTMENT CONNECTION.
6. REFER TO CIVIL SITE DRAWINGS FOR REQUIRED BUILDING # AND FDOT REGULATORY SIGNAGE. SIGNAGE SHALL COMPLY WITH NFPA 24, 2019 EDITION.
7. FIRE DEPARTMENT CONNECTION MUST BE PRESSURE TESTED AT NOT LESS THAN 200 PSI FOR 2 HOURS WITH A ZERO DROP IN PRESSURE.



2 FIRE DEPARTMENT CONECTION DETAIL
N.T.S.



ALTERNATE SECTION SECTION

PIPE SIZE INCH	DEFLECTION ANGLE									
	11-1/4"		22-1/2"		45°		TEE/PLUG		90°	
	THRUST BLOCK DIMINSIONS - FEET									
	H	W	H	W	H	W	H	W	H	W
6	1'-0"	1'-0"	1'-0"	1'-6"	1'-6"	2'-6"	1'-6"	3'-0"	2'-0"	3'-6"
8	1'-0"	1'-6"	1'-6"	2'-6"	2'-0"	3'-6"	2.5	3'-6"	3'-0"	4'-0"
10	1'-0"	2'-0"	1'-6"	3'-0"	2'-6"	4'-0"	3'-0"	4'-6"	3'-6"	5'-0"
12	1'-6"	2'-6"	2'-6"	3'-6"	3'-0"	5'-0"	3'-6"	5'-6"	4'-0"	6'-6"
16	2'-6"	4'-0"	3'-6"	5'-6"	5'-0"	7'-0"	5'-6"	8'-0"	6'-6"	9'-0"
20	3'-0"	5'-6"	4.5	6'-6"	6'-0"	8'-6"	6'-6"	9'-6"	7.5	11'-0"
24	3'-6"	6'-0"	5'-0"	8'-0"	7'-0"	9'-6"	7'-6"	11'-6"	9'-0"	12'-6"

NOTES:

1. TEST PRESSURE FOR 6" THROUGH 12" IS 100 psi.
2. TEST PRESSURE FOR 16" THROUGH 24" IS 150 psi.
3. THRUST BLOCKS ARE DESIGNED FOR A MINIMUM 3' OF COVER OVER THE PIPE. IF LESS COVER EXISTS, BLOCKS SHALL BE ENLARGED AS DIRECTED BY THE ENGINEER.
4. L = 3' MAXIMUM FOR ROADWAYS - POUR TO UNDISTURBED SOIL.

3 THRUST BLOCK DETAIL
N.T.S.

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DRAWING HISTORY

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A	4/4/2025	100% Design Development
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10/14/2025

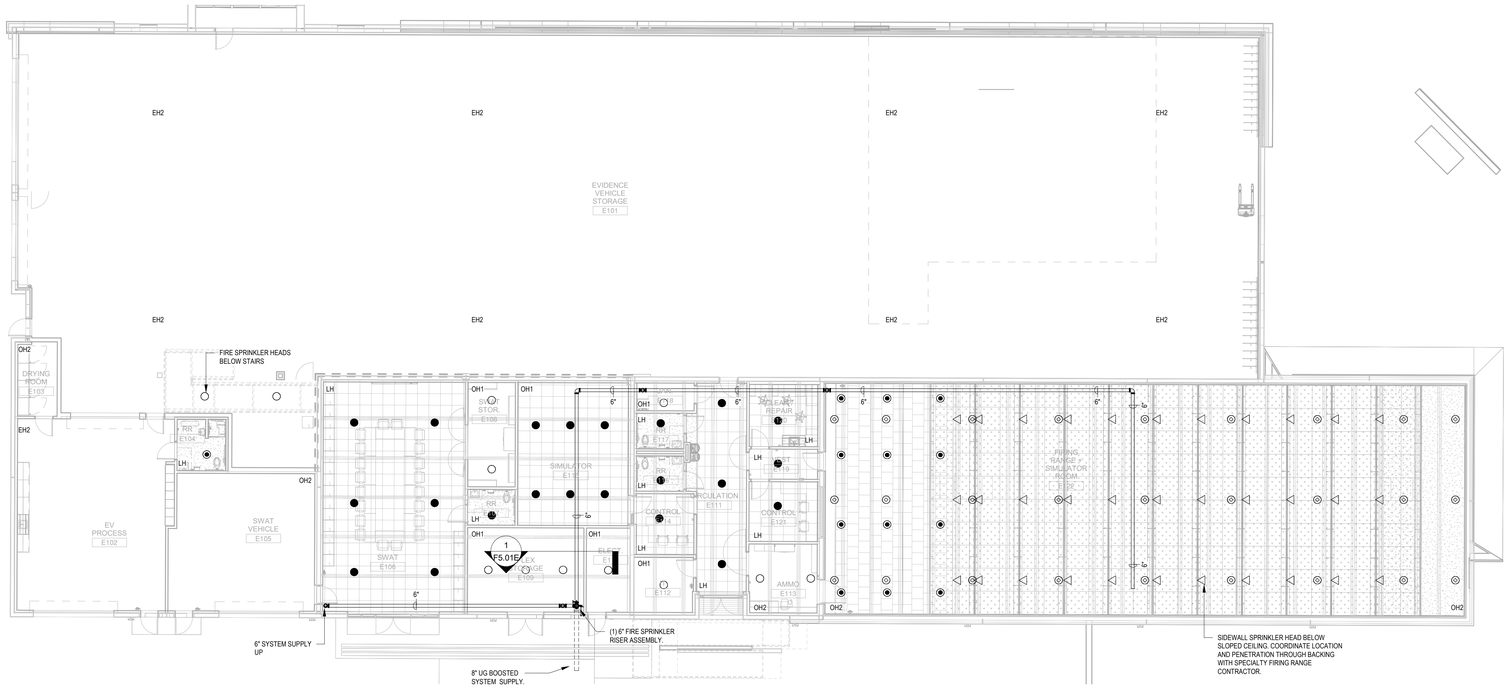
PROJECT NAME
RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
SITE PLAN - FIRE PROTECTION

SHEET NUMBER
F0.10E



FLOOR PLAN - EVIDENCE/FIRING RANGE - FIRE PROTECTION 3/32" = 1'-0" (1)

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RIVIERA BEACH, FL 33404

PROJECT NUMBER

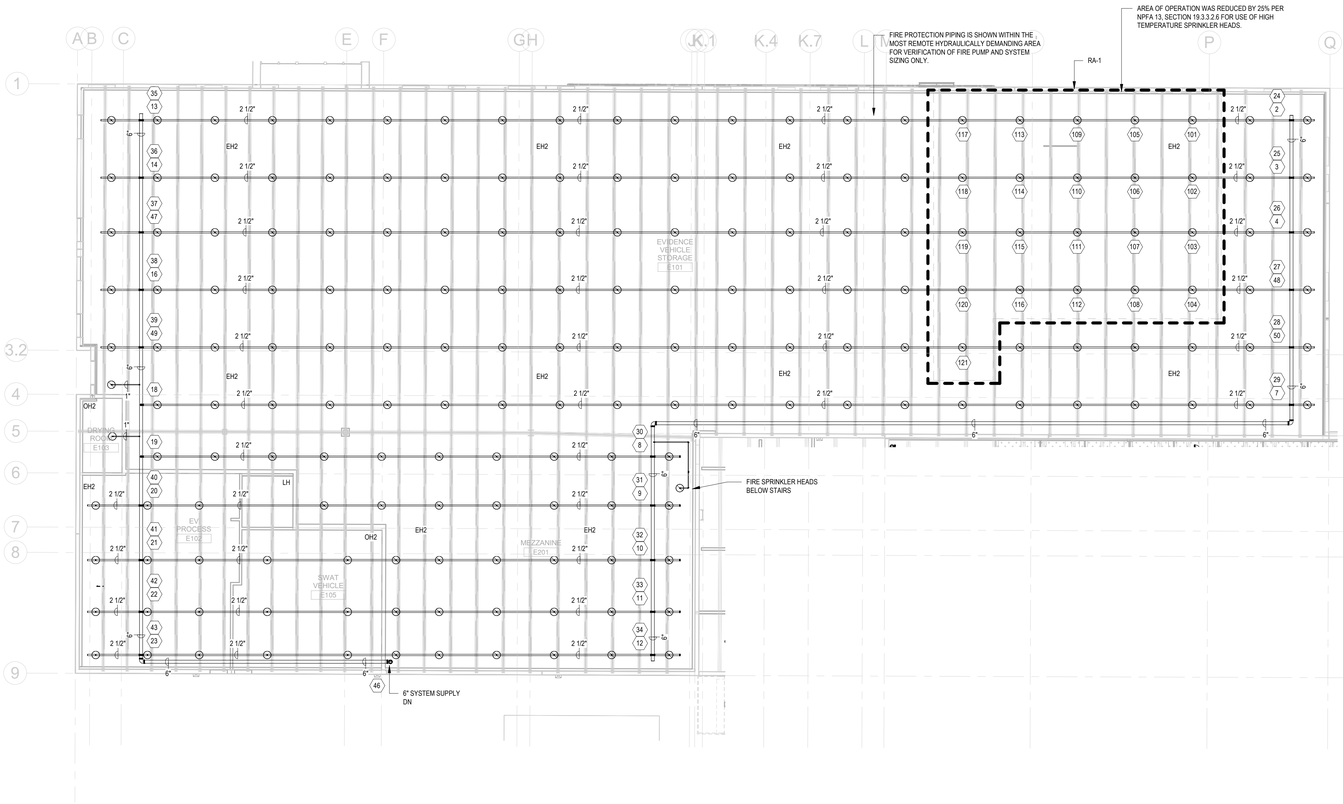
1007657.00

SHEET TITLE

FLOOR PLAN - EVIDENCE/FIRING RANGE - FIRE PROTECTION

SHEET NUMBER

F1.01E



Hydraulic Information	
Remote Area Name	RA-1
Occupancy Classification	Extra Hazard Group 2
Density	0.40 GPM
Applicable Area	2500 SF
Actual Area	2073 SF
Total Hose Streams	500.00 GPM
Flowing Heads	21
K-Factor	5.6
Total Water Required	1341.55 GPM
Total Pressure Required	22.57 psi
Base of Riser	841.55 GPM
Base of Riser	74.88 psi
Safety Margin	+7.49 (24.92%)

FLOOR PLAN - MEZZANINE - FIRE PROTECTION 3/32" = 1'-0" 1

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PROJECT NAME
RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
FLOOR PLAN - MEZZANINE - FIRE PROTECTION

SHEET NUMBER
F1.02E

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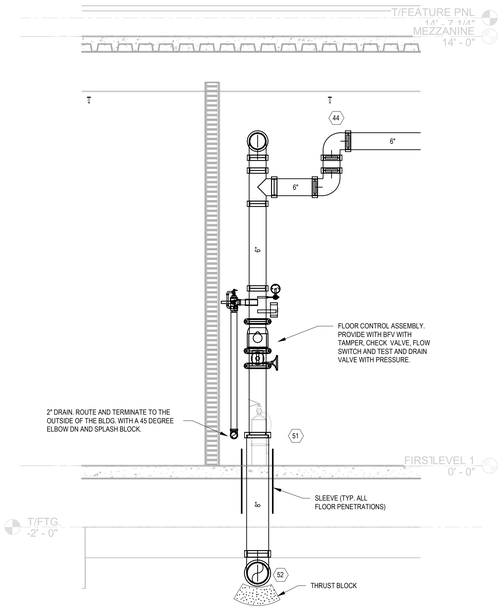
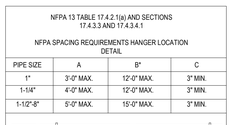


1 FIRE SPRINKLER RISER ASSEMBLY DETAIL
1/2" = 1'-0"

NFPA 13 TABLE 17.4.2.1(a) AND SECTIONS 17.4.3.3 AND 17.4.3.4.1

NFPA SPACING REQUIREMENTS HANGER LOCATION DETAIL

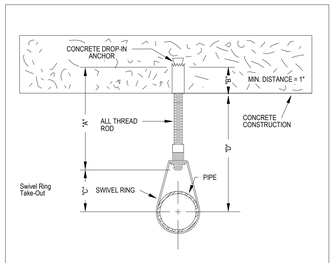
PIPE SIZE	A	B*	C
1"	3'-0" MAX.	12'-0" MAX.	3" MIN.
1-1/4"	4'-0" MAX.	12'-0" MAX.	3" MIN.
1-1/2"-8"	5'-0" MAX.	15'-0" MAX.	3" MIN.



* MAXIMUM HANGER SPACING FOR STEEL PIPE

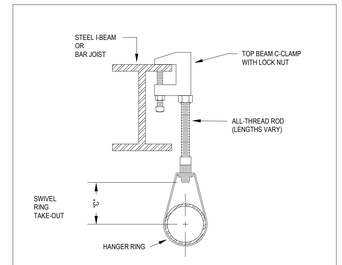
NOTES:

THE CUMULATIVE HORIZONTAL LENGTH OF AN UNSUPPORTED ARMOVER TO A SPRINKLER OR SPRINKLER DROP SHALL NOT EXCEED 24".



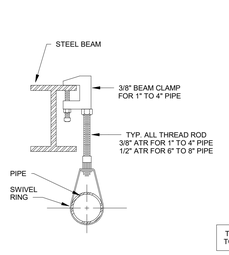
Pipe Size	Rod Size	Type of Fastener	Min. 'C' Dim.	Max. 'C' Dim.
3/4"	3/8"	1 - 3/8 x 1 17/32" DROP-IN	1/2"	1 5/8"
1"			5/8"	1 3/4"
1 1/4"			13/16"	1 7/8"
1 1/2"			15/16"	2"
2"			1 3/16"	2 3/8"
2 1/2"			1 7/16"	2 3/4"
3"			1 3/4"	3 1/4"
3 1/2"			2"	3 5/8"
4"			2 1/4"	3 7/8"
5"	1/2"	1 - 1/2 x 2 1/32" DROP-IN	2 3/4"	4 3/4"
6"			3 5/16"	5 1/2"
8"			N/A	N/A

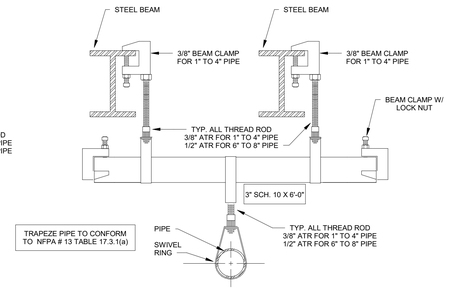
2 HANGER LOCATION DETAIL
N.T.S.

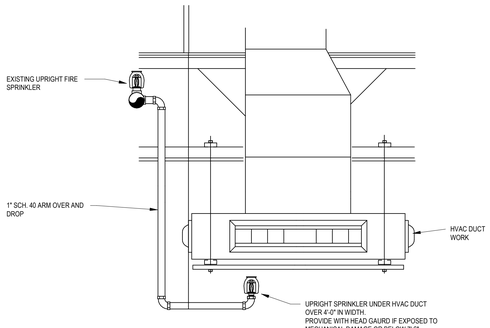


Pipe Size	Rod Size		Min. 'C' Dim.	Max. 'C' Dim.
3/4"	3/8"		1/2"	1 5/8"
1"			5/8"	1 3/4"
1 1/4"			13/16"	1 7/8"
1 1/2"			15/16"	2"
2"			1 3/16"	2 3/8"
2 1/2"			1 7/16"	2 3/4"
3"			1 3/4"	3 1/4"
3 1/2"			2"	3 5/8"
4"	1/2"		2 1/4"	3 7/8"
5"			2 3/4"	4 3/4"
6"			3 5/16"	5 1/2"
8"			4 5/16"	6 3/4"

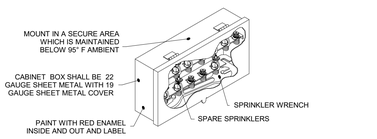
3 HANGER PIPE SUPPORT DETAIL
N.T.S.





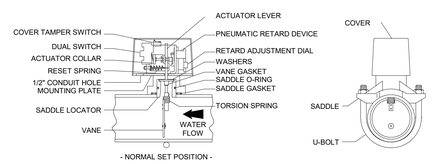


4 SPRINKLER UNDER DUCT DETAIL
N.T.S.

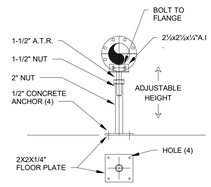


FACILITIES HAVING UNDER 300 SPRINKLERS - NO FEWER THAN 6 SPARE SPRINKLERS IN STOCK
FACILITIES HAVING 300 - 1000 SPRINKLERS - NO FEWER THAN 12 SPARE SPRINKLERS IN STOCK
FACILITIES HAVING OVER 1000 SPRINKLERS - NO FEWER THAN 24 SPARE SPRINKLERS IN STOCK

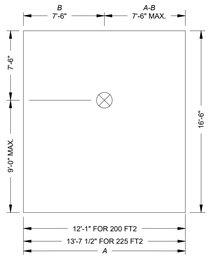
5 SPARE HEAD CABINET DETAIL
N.T.S.



6 FLOW SWITCH DETAIL
N.T.S.

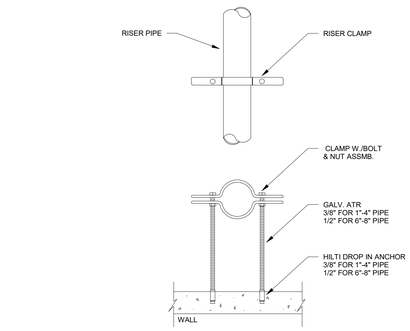


7 PIPE SUPPORT DETAIL
N.T.S.



NFPA 13 2019 EDITION FIGURE A.10.2.5.2.3(a)

8 SMALL ROOM RULE DETAIL
N.T.S.



9 VERTICAL PIPE SUPPORT DETAIL
N.T.S.

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/RBPD_Evidence and Firing Range_MEPF_R24.rvt
DATE STAMP: 10/23/2025 9:32:16 AM

CLIENT

CITY OF RIVIERA BEACH
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REGISTRATION

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FL REG. NO. PE57743

DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

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PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

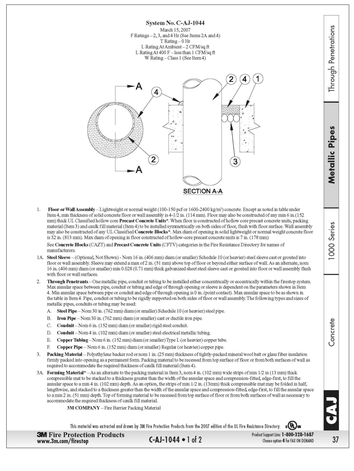
PROJECT NAME
RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
DETAILS - FIRE PROTECTION

SHEET NUMBER
F5.01E



System No. C-AJ-1044
March 15, 2007
F Ratings – 2, 3, and 4 Hr (See Items 2A and 4)
T Rating – 0 Hr
L Rating At Ambient – 2 CFM/sq ft
L Rating At 400 F – less than 1 CFM/sq ft
W Rating – Class 1 (See Item 4)

SECTION A-A

1. **Floor or Wall Assembly** – Lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Except as noted in table under Item 4, min thickness of solid concrete floor or wall assembly is 4-1/2 in. (114 mm). Floor may also be constructed of any min 6 in.(152 mm) thick UL Classified **Concrete Blocks** (CAZT) and **Precast Concrete Units** (CFTV) categories in the Fire Resistance Directory for names of manufacturers.

1A. **Steel Sleeve** – (Optional, Not Shown) - Nom 16 in. (406 mm) diam (or smaller) Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly. Sleeve may extend a max of 2 in. (51 mm) above top of floor or beyond either surface of wall. As an alternate, nom 16 in. (406 mm) diam (or smaller) min 0.028 (0.71 mm) thick galvanized sheet steel sleeve cast or grouted into floor or wall assembly flush with both surfaces of wall.

2. **Through Penetrants** – One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Max annular space between pipe, conduit or tubing and edge of through-opening or sleeve is dependent on the parameters shown in Item 4. Min annular space between pipe or conduit and edge of through-opening is 0 in. (point contact). Min annular space to be as shown in the table in Item 4. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. **Steel Pipe** – Nom 36 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. **Iron Pipe** – Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
   C. **Conduit** – Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit.
   D. **Conduit** – Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.
   E. **Copper Tubing** – Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tube.
   F. **Copper Pipe** – Nom 8 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. **Packing Material** – Polyethylene backer rod or nom 1 in. (25 mm) thickness of lightly-packed mineral wool batt or glass fiber insulation to be installed at any point within the through-opening. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of caulk fill material (Item 4).

3A. **Forming Material*** – As an alternate to the packing material in Item 3, nom 4 in. (102 mm) wide strips of min 1/2 in (13 mm) thick compressible rod to be stacked to a thickness greater than the width of the annular space and compression-filled, edge-first, to fill the annular space to a min 4 in. (102 mm) depth. As an option, the strips of min 1/2 in. (13mm) thick compressible mat may be folded in half, lengthwise, and stacked to a thickness greater than the width of the annular space and compression-filled, edge-first, to fill the annular space to a min 2 in. (51 mm) depth. Top of forming material to be recessed from top surface of floor or from both surfaces of wall as necessary to accommodate the required thickness of caulk fill material.
   3M COMPANY – Fire Barrier Packing Material

Through Penetrations | Metallic Pipes | 1000 Series | Concrete | CAJ

System No. C-AJ-1044 *continued*

4. **Fill, Void or Cavity Material*** – **Caulk, Sealant** – Applied to fill the annular space flush with top surface of floor. In wall assemblies, caulk fill material shall be applied to both surfaces of wall flush with surface of wall. Min caulk fill thickness is 1 in. (25 mm). Min thickness of penetrant and sleeve or between penetrant and concrete, a min 1/4 in. (6 mm) diam bead of caulk shall be applied at top surface of floor and at both surfaces of wall. The hourly F Ratings and the min required caulk thicknesses are dependent upon a number of parameters, as shown in the following table:

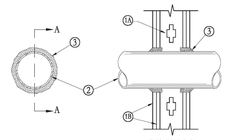
Min Floor or Wall Thkns In. (mm)	Nom Pipe Tube or Conduit Diam In. (mm)	Max Annular Space In. (mm)	Min Caulk Thkns In. (mm)	F Rating Hr
4-1/2 (114)	1/2-12 (13-305)	1-3/8 (35)	1 (25)	2
5-1/2 (140)	1/2-12 (13-305)	3-1/4 (83)	1 (25)	2
4-1/2 (114)	1/2-6 (13-152)	1-3/8 (35)	1-9/16 (a)	2
4-1/2 (114)	1/2-12 (13-305)	1-3/4 (52)	2 (51)	3
4-1/2 (114)	1/2-20 (13-508)	2 (51)	1 (25)	3
4-1/2 (114)	1/2-20 (13-508)	2 (51)	1 (25)	3
4-1/2 (114)	1/2-12 (13-305)	3-1/4 (83)	1 (25)	3
4-1/2 (114)	22-30 (558-762)	2 (51)	2 (51)	3
5-1/2 (140)	1/2-6 (13-152)	1-3/8 (35)	1 (25)(b)	4

(a) Min 2 in. (51 mm) thickness of mineral wool batt insulation or forming material (Item 3A) required in annular space.
(b) Min 2 in. (51 mm) thickness of caulk required when penetrant is located within 6 in. (152 mm) of floor or wall assembly. Min 1 in. (25 mm) thickness of caulk to be installed flush with each surface of floor or wall assembly.
3M COMPANY – CP 25WB+ or FB-3000 WT.
(Note: W Rating applies only when FB-3000 WT is used.)

*Bearing the UL Classification Marking

Through Penetrations | Metallic Pipes | 1000 Series | Concrete | CAJ

System No. W-L-1001
June 15, 2005
F Ratings – 1, 2, 3 and 4 Hr (See Items 2 and 3)
T Ratings – 0, 1, 2, 3, and 4 Hr (See Item 3)
L Rating At Ambient – less than 1 CFM/sq ft
L Rating At 400 F – less than 1 CFM/sq ft



SECTION A-A

1. **Wall Assembly** – The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/steel stud wall assembly shall be constructed of the materials and in the manner described in the individual U360 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs** – Wall framing (not shown) consist of either wood studs (nom 2 hr fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 0.5-ft in. (92 mm) wide by 1-5/8 in. (35 mm) deep shaped-web spaced nom 24 in. (610 mm) OC.
   B. **Gypsum Board*** – Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft (1222 mm) wide with square or tapered edges. The gypsum wallboard shall be installed parallel or perpendicular to studs and shall be secured to the studs as described in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening shall be 24 in. (610 mm).

2. **Through Penetrant** – One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (0 mm) (point contact) to max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. **Steel Pipe** – Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. **Iron Pipe** – Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
   C. **Conduit** – Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.
   D. **Copper Tubing** – Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. **Copper Pipe** – Nom 8 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
   F. **Through Penetrating Product*** – **Flexible Metal Piping** - The following types of steel flexible metal gas piping may be used.
      1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
         OMEGA FLEX INC
      2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
         TITEFLEX CORP
         A JEMJIN CO
      3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
         WARD MFG INC

Through Penetrations | Metallic Pipes | 1000 Series | Gypsum | WL

System No. W-L-1001 *continued*

3. **Fill, Void or Cavity Material*** – **Caulk or Sealant** – Min 5/8, 1-1/4, 2-7/8 and 2-1/2 in. (16, 32, 48 and 64 mm) thickness of caulk for 1, 2, 3 and 4 hr fire ratings, respectively, applied within the annular space, flush with both surfaces of wall. Min 5/8 in. (16 mm) diam bead of caulk shall be applied to gypsum board/penetrant interface at point contact locations on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam In. (mm)	F Rating Hr	T Rating Hr
1 (25)	1 or 2	0+, 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
4 (102)	3 or 4	0
12 (305)	1 or 2	0

+When copper pipe is used, T Rating is 0 hr.
3M COMPANY – CP 25WB+ caulk or FB-3000 WT sealant.
*Bearing the UL Classification Marking

1 UL PENETRATION DETAIL
N.T.S.

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/RBPD_Evidence and Firing Range_MEPF_R24.rvt
DATE STAMP: 10/23/2025 9:32:22 AM

CLIENT

CITY OF RIVIERA BEACH
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Riviera Beach, FL 33404

ARCHITECT OF RECORD

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JL2 ARCHITECTURE INC.
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REGISTRATION

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FL. REG. NO.: PE57743

DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

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A LEGENCE Company
4 Harvard Cir. Suite 600 | West Palm Beach, FL 33409
561.688.8275 | cmta.com

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
DETAILS - FIRE PROTECTION

SHEET NUMBER
F5.02E

FIRE SPRINKLER HEAD SCHEDULE

SYMBOL	TEMP	RESPONSE	HAZARD	K-FACTOR	FINISH	MODEL/ SIN	STYLE	PLATE	SIZE	MANUFACTURER
●	155°	QUICK	LH/ OH	5.6	WHITE POLYESTER COATED	TY-FRB/ TY323	STANDARD COVERAGE PENDENT	2 PIECE	1/2"	TYCO
◉	155°	QUICK	LH/ OH	5.6	BRASS	RFII/ TY3531	STANDARD COVERAGE CONCEALED PENDENT	WHITE CONCEALED PLATE	1/2"	TYCO
○	155°	QUICK	LH/ OH	5.6	BRASS	TY-FRB/ TY313	STANDARD COVERAGE UPRIGHT	NONE	1/2"	TYCO
⊘	286°	STANDARD	ALL	5.6	BRASS	TYB/ TY315	STANDARD COVERAGE UPRIGHT	NONE	1/2"	TYCO
△	155°	STANDARD	OH	11.2	WHITE POLYESTER COATED	SW-25/ TY5332	EXTENDED COVERAGE HORIZONTAL SIDEWALL	2 PIECE	3/4"	TYCO
◎	155°	QUICK	LH/ OH	11.2	BRASS	EC-11/ TY5137	EXTENDED COVERAGE UPRIGHT	NONE	3/4"	TYCO

NOTES:

1. FIRE PROTECTION CONTRACTOR SHALL COORDINATE ALL CONCEALED PLATE COLORS WITH ARCHITECT/ ARCHITECTURAL DRAWINGS. FINAL PLATE COLORS AND CUSTOM COLORS FOR EACH AREA AND INDIVIDUAL ROOMS SHALL BE APPROVED BY ARCHITECT PRIOR TO ORDERING.
2. ALL SPRINKLERS IN THE IN ALL STORAGE ROOM, MECHANCIAL ROOMS, ELECTRICAL ROOMS AND UNDERNEATH STAIRS SHALL BE PROVIDED WITH IN LINE SPRINKLER HEAD GUARD - SPRINKGUARD ITEM # 201040. PROVIDE SIDEWALL SPRINKLER HEAD GUARD - SPRINKGUARD ITEM # 201252 FOR ALL SIDEWALL SPRINKLER HEADS.
3. ALL SPRINKLER HEADS SHALL BE CENTERED TO THE CEILING TILES UNLESS OTHERWISE NOTED.
4. ALIGN ALL SPRINKLER HEADS WITH LIGHTING AND DIFFUSERS.
5. PROVIDE ADDITIONAL SPRINKLER HEADS UNDER HVAC DUCT WORK EQUAL TO AND EXCEEDING 4' IN WIDTH. COORDINATE FINAL DUCT LOCATIONS WITH INSTALLING MECHANICAL CONTRACTOR.
6. PROVIDE INTERMEDIATE TEMPERATURE SPRINKLER HEADS ADJACENT TO ANY DIFFUSER WHERE THE DISTANCE REQUIREMENTS LISTED IN NFPA 13 TABLE 8.3.2.5 (A) ARE NOT FOLLOWED.

FILE NAME: Autodesk Docs://_1007657.00_-_CORE_-_City of Riviera Beach D/RBPD_Evidence and Firing Range_MEPF_R24.rvt
DATE STAMP: 10/23/2025 9:32:26 AM

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RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION

1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

1007657.00

SHEET TITLE

SCHEDULES - FIRE PROTECTION

SHEET NUMBER

F6.01E

CODE REFERENCE

- FLORIDA BUILDING CODE - PLUMBING - 8TH EDITION (2023)
- FLORIDA BUILDING CODE - ACCESSIBILITY - 8TH EDITION (2023)
- FLORIDA BUILDING CODE - ENERGY CONSERVATION - 8TH EDITION (2023)

GENERAL NOTES

1. EACH CONTRACTOR, PROPOSER, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO INSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS TO AVOID CONFLICTS WITH ANY OTHER BUILDINGS SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS.
2. INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC. IN A LOCATION OR IN A MANNER WHICH WILL ALLOW FREEZING AND THE COLLECTION OF CONDENSATION THEREON. IF IN DOUBT, CONTACT THE ARCHITECT.
3. ADVISE ARCHITECT OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC.. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATIONS BY WRITTEN ADDENDUM.
4. DEVIATIONS FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ARCHITECT AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE.
5. OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY,COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC..)
6. INSTALL EQUIPMENT, MATERIALS, ETC.. IN STRICT ACCORD WITH MANUFACTURERS' RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INTENT IN CONTRACT DOCUMENTS, ADVISE THE ARCHITECT PRIOR TO INSTALLATION FOR CLARIFICATIONS.
7. ALL SYSTEMS, EQUIPMENT, AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT MEETING THIS CRITERION SHALL BE REMOVED AND REINSTALLED SATISFACTORILY. FINAL DETERMINATION OF THE ACCEPTABILITY OF THE QUALITY OF WORK RESIDES WITH THE ARCHITECT.
8. ALL WORK, MATERIALS, EQUIPMENT, ETC. SHALL BE FULLY GUARANTEED FOR ONE FULL CALENDAR YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AS DOCUMENTED BY THE ARCHITECT, UNLESS LONGER WARRANTY PERIODS FOR EQUIPMENT ARE SPECIFIED.
9. UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL EQUIPMENT AND/OR MATERIALS WITHIN OCCUPIED SPACES OR EXPOSED TO VIEW ON THE BUILDING EXTERIOR SHALL BE PRIMED AND FINISHED SO AS TO COMPLEMENT ADJACENT SURFACE, UNLESS OTHERWISE NOTED. COORDINATE WORK WITH ARCHITECT.
10. ALL ELECTRICAL COMPONENTS OR EQUIPMENT SHALL BE LABELED BY UNDERWRITER'S LABORATORIES OR OTHER APPROVED LISTING AGENCY. APPROVED AND LABELING OF INDIVIDUAL COMPONENTS ON AN ASSEMBLY IS NOT ACCEPTABLE AS MEETING THIS REQUIREMENT, UNLESS WAIVED BY THE ARCHITECT IN WRITING.
11. ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE OR SUB-SERVICE FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRIC LINES. VERIFY THE LOCATION, SIZE TYPE, ETC. OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENTS SHALL APPLY.
12. ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, SUPPORT FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES, EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT AND CONSENT OF THE OTHER TRADE, IN WRITING.
13. WHERE INTERRUPTING AN EXISTING UTILITY OR SERVICE DELIBERATELY OR ACCIDENTALLY THE RESPONSIBLE CONTRACTOR SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME PROVIDING PREMIUM TIME AS NEEDED.
14. WHERE PENETRATING NEW ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATION IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANYWAY. COORDINATE ALL SUCH PENETRATIONS WITH THE ROOFING INSTALLER/ARCHITECT.
15. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES, CASH CONTRIBUTIONS OR OTHER COSTS THAT THE UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (ELECTRIC, TELEPHONE, TELEVISION, ETC..)
16. DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ARCHITECT OR NOT SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
17. INTERRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR, UTILITY COMPANY, ARCHITECT, AND OWNER AS NECESSARY, WITH AT LEAST ONE WEEK IN ADVANCE OF ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN PARTIES MENTIONED, TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED TWO WEEKS IN ADVANCE, IN WRITING. IF UTILITY COMPANY REQUIRES A LONGER NOTIFICATION PERIOD, SO PROVIDE.
18. ALL WORK SHALL BE CONCEALED UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, OR REQUIRED TO BE EXPOSED. IF IN DOUBT, CONTACT THE ARCHITECT FOR CLARIFICATION PRIOR TO INSTALLING ANY SUCH WORK.
19. DO NOT SCALE FROM DRAWINGS, AS PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONED SUPPLIED TO THE CONTRACTOR.
20. IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTING CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS' CONVENIENCE AND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.
21. ALL WORK SHOWN ON DRAWINGS (EQUIPMENT, DUCTWORK, PIPING FIXTURES, RACEWAYS, WIRING, ETC.) ARE NEW, TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
22. ALL PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE. COORDINATION WITH ALL TRADES WILL BE REQUIRED.
23. REFER TO DOMESTIC WATER RISER DIAGRAM FOR LOCATIONS OF ALL VALVES AND ACCESSORIES TO BE INSTALLED.
24. WATER HAMMER ARRESTORS, TRAP PRIMERS, VALVES, ETC. SHALL BE ACCESSIBLE. PROVIDE ACCESS PANELS WHERE ANY ITEM IS INSTALLED IN AN INACCESSIBLE SPACE.
25. INSULATE HOT WATER PIPING IN ACCORDANCE WITH FLORIDA ENERGY EFFICIENCY CODE.
26. METALLIC PIPING SHALL BE INSTALLED IN FIRE RATED WALL. (TYPICAL)
27. SEAL ALL PIPING PENETRATIONS WITH NON-SHRINK MASTIC.
28. DOMESTIC WATER PIPING WITHIN 5 FEET OF THE BUILDING SEWER/DRAIN PIPING IS TO BE A MINIMUM OF 12 INCHES ABOVE THE HIGHEST POINT OF THE BUILDING SEWER/DRAIN PIPING AND THE PIPE MATERIALS MUST CONFORM TO THE FLORIDA BUILDING CODE 2023 - PLUMBING.
29. PLUMBING CONTRACTOR SHALL COORDINATE UNDERGROUND PIPING WITH BUILDING FOUNDATION.
30. WHERE PIPING PENETRATES FOOTING, REFER TO STRUCTURAL DRAWINGS FOR SLEEVING METHODS.
31. WHERE INVERT ELEVATIONS ARE HIGHER ON PLUMBING DRAWINGS, PLUMBING CONTRACTOR SHALL INSTALL PIPING AS PER THE PLUMBING CONTRACT DRAWINGS AND PROVIDE A 45° DROP TO MEET THE CIVIL ENGINEERS POINT OF CONNECTION. IF ANY CONFLICTS ARISE WHERE CIVIL ENGINEERS' POINT OF CONNECTIONS ARE SHALLOWER THAN ON THE PLUMBING CONTRACT DOCUMENTS, PLUMBING CONTRACTOR SHALL CONTACT THE ARCHITECT/ENGINEER.
32. SUPPLY AND TRAP WRAPS SHALL BE PROVIDED AT ADA LAVATORIES AND SINKS WHERE PIPING IS EXPOSED.
33. WHERE PIPING IS NEAR ROOF ACCESS HATCH CONTRACTOR SHALL ROUTE ALL PIPING TO CLEAR ALL LADDERS AND OPENINGS.
34. COORDINATE VENT THRU ROOF WITH ALL EQUIPMENT . WHERE PIPING IS WITHIN 10'-0" OF EQUIPMENT, LOUVERS ETC. VENT THRU ROOF SHALL BE MOVED TO MAINTAIN A 10'-0" CLEARANCE OF OUTSIDE AIR OPENING.
35. P-TRAPS INSTALLED ON ALL FLOOR DRAINS SHALL BE DEEP SEAL TRAPS.
36. PROVIDE ROUGH-IN AND FINAL CONNECTIONS FOR ALL PLUMBING UTILITIES AND SERVICES FOR EQUIPMENT PROVIDED BY OTHERS.
37. WATER HAMMER TO BE INSTALLED IN ALL QUICK CLOSING FIXTURES.
38. WHEN NONMETALLIC PIPE IS USED IN COMBINATION SYSTEMS UTILIZING STEEL PIPING INTERNALLY COATED WITH CORROSION INHIBITORS AND NONMETALLIC PIPING, THE STEEL PIPE COATING SHALL BE INVESTIGATED FOR COMPATIBILITY WITH THE NONMETALLIC PIPING BY A TESTING LABORATORY.
39. WHEN FABRICATING STEEL PIPE FOR A COMBINATION (CPVC-STEEL) SYSTEM, THE CUTTING OIL AND LUBRICANTS CAN CAUSE PERFORMANCE DEGRADATION OF THE CPVC PIPING. CUTTING OILS AND LUBRICANTS FOUND TO BE COMPATIBLE ARE AVAILABLE AND SHALL BE USED.
40. WHEN NONMETALLIC PIPE IS USED IN COMBINATION SYSTEMS UTILIZING STEEL PIPE THAT IS NOT INTERNALLY COATED WITH CHEMICAL CORROSION INHIBITORS, NO ADDITIONAL EVALUATIONS SHALL BE REQUIRED.
41. WHEN NONMETALLIC PIPE IS USED IN COMBINATION SYSTEMS UTILIZING STEEL PIPE, CUTTING OILS AND LUBRICANTS USED FOR FABRICATION OF THE STEEL PIPING SHALL BE COMPATIBLE WITH THE NONMETALLIC PIPE MATERIALS.
42. FIRE-STOPPING MATERIALS INTENDED FOR USE ON NONMETALLIC PIPING PENETRATIONS SHALL BE INVESTIGATED FOR COMPATIBILITY WITH THE NONMETALLIC PIPE MATERIALS.
43. ALL CPVC PIPING, FITTINGS AND SOLVENTS SHALL BE FROM A SINGLE MANUFACTURERS. MIXING OF MANUFACTURERS IS NOT ALLOWED OR PERMITTED.
44. CPVC PIPING INSTALLATION SHALL BE IN CONFORMANCE WITH MANUFACTURER'S SPECIFICATIONS AND GUIDELINES.
45. PROVIDE IDENTIFICATION (LABELING) FOR DOMESTIC ACCESSORIES HIDDEN ABOVE / BEHIND CEILING TILES AND ACCESS PANELS.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
APPROX	APPROXIMATELY
AP	ACCESS PANEL
ARCH	ARCHITECTURAL
AUX	AUXILIARY
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
BWV	BACK WATER VALVE
CD	CONDENSATE DRAIN
CO	CLEAN-OUT
COMPR	COMPRESSOR
COND	CONDENSATE OR CONDENSER
CONT	CONTINUATION
CW	DOMESTIC COLD WATER
DN	DOWN
DWG	DRAWING
ECO	EXTERIOR CLEANOUT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EL	ELEVATION
ELEC	ELECTRIC
EXP	EXPANSION
EEW	EYE WASH/SHOWER
°F	DEGREES FAHRENHEIT
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FG	FINISHED GRADE
FS	FLOOR SINK
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HP	HORSEPOWER
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
HZ	FREQUENCY
IN	INCH OR INCHES
INSUL	INSULATION
KW	KILOWATT
L	LAVATORY
LT	LENGTH
MECH	MECHANICAL
MIN	MINIMUM
MS	MOP SINK
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OD	OUTSIDE DIAMETER
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
RCP	RECIRCULATING PUMP (HWR)
RPM	REVOLUTIONS PER MINUTE
S	KITCHEN SINK (DOMESTIC)
SAN	SANITARY
SH	SHOWER
SPEC	SPECIFICATION
ST	STORM
TD	TRENCH DRAIN
TMV	THERMOSTATIC MIXING VALVE
TYP	TYPICAL
V	VENT LINE
VTR	VENT THRU ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WB	SUPPLY BOX (CLOTHES WASHER)
RD	ROOF DRAIN

SYMBOL LEGEND

PIPE SECTION - SUPPLY
PIPE SECTION - RETURN
DIRECTION OF FLOW IN PIPE
PIPE UP
PIPE DOWN
BALL VALVE
CHECK VALVE
GATE VALVE
GLOBE VALVE
BALANCING VALVE
PLUG VALVE
STRAINER, Y-TYPE AND BLOWOFF VALVE
PRESSURE RELIEF VALVE (WATER)
PRESSURE REDUCING VALVE
VALVE IN SERVICE BOX WITH CAST IRON COVER
SOLENOID VALVE
FCO — FLOOR CLEANOUT
ECO — EXTERIOR CLEANOUT
2-WAY ECO — EXTERIOR 2-WAY CLEANOUT
WCO — WALL CLEANOUT
CO — HORIZONTAL CLEANOUT
CAPPED PIPE
POINT OF CONNECTION OF NEW TO EXISTING
POINT OF DISCONNECT FROM EXISTING
T — DELTA T (TEMPERATURE DIFFERENCE
HOT WATER RECIRCULATOR PUMP
HOSE BIBB
FLOOR DRAIN
HUB DRAIN
FLOOR SINK
TRENCH DRAIN
DOMESTIC COLD WATER PIPING
DOMESTIC HOT WATER PIPING (120°F)
140 — DOMESTIC HOT WATER PIPING (140°F)
DOMESTIC HOT WATER RETURN PIPING
VENT PIPING
SAN — SANITARY/SEWER PIPING
ST — STORM PIPING
TP — TRAP PRIMER PIPING
CA — COMPRESSED AIR PIPING

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CONSULTANT

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PROJECT STATUS

90% CONSTRUCTION DOCUMENTS/PERMIT SET

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PROJECT NAME

RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION

1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

1007657.00

SHEET TITLE

GENERAL NOTES, ABBREVIATIONS & LEGEND - PLUMBING

SHEET NUMBER

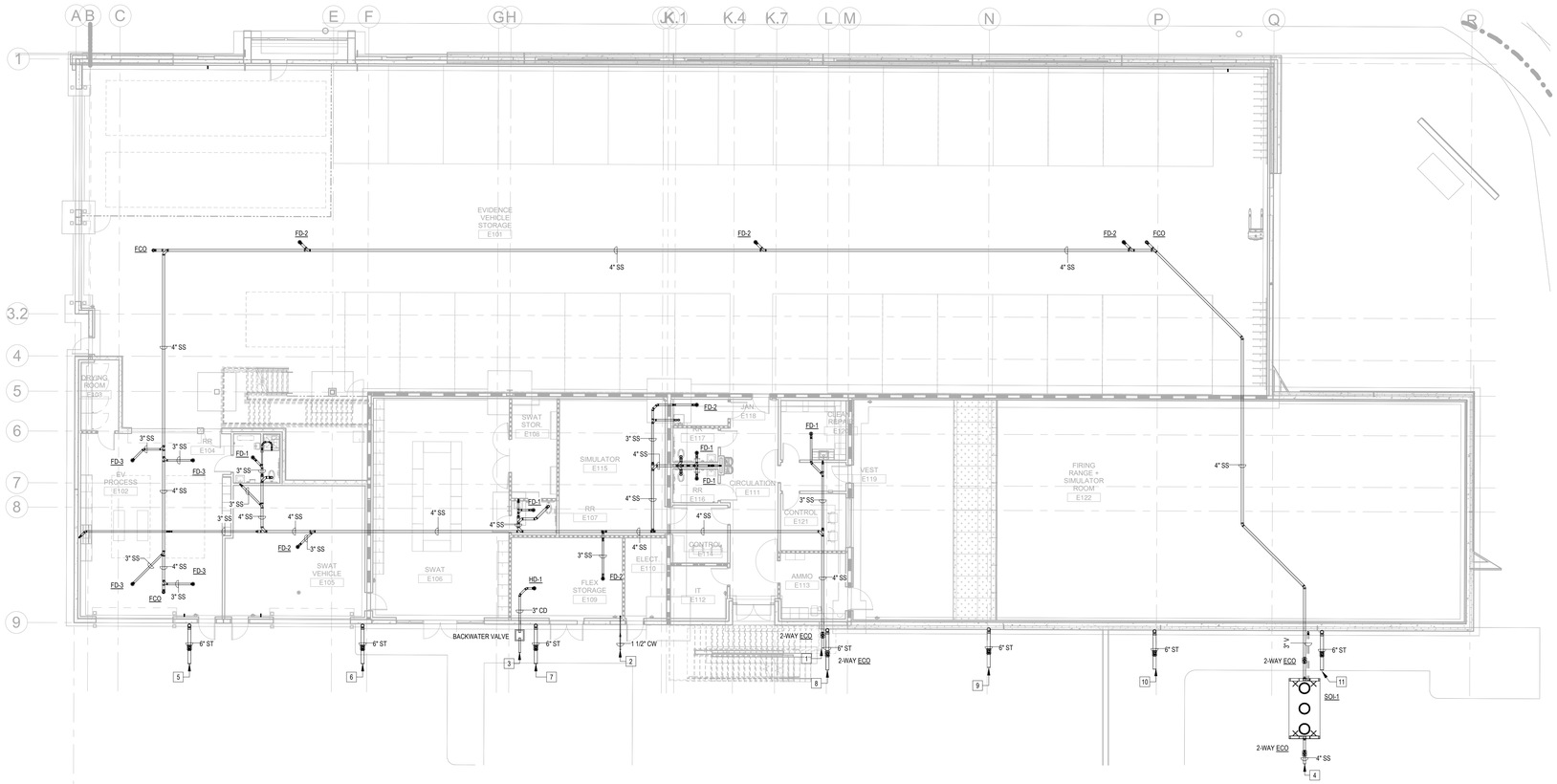
P0.01E

PLUMBING KEYNOTES [X]:

1. 4" SANITARY WASTE PIPING BELOW GRADE WITH 2-WAY EXTERIOR CLEANOUT. REFER TO CIVIL SITE UTILITY PLAN FOR CONTINUATION. (42 DFU & PRELIMINARY APPROX IN. EL. 40" BELOW FINISHED FLOOR).
2. 1-1/2" DOMESTIC WATER SERVICE PIPING BELOW GRADE WITH SHUT-OFF VALVE IN VALVE BOX WITH CAST IRON COVER. REFER TO CIVIL SITE UTILITY PLAN FOR CONTINUATION. (37 SFU = 25 GPM WITH AND ADDITIONAL GPM LOAD OF 10 GPM FOR WALL HYDRANTS TOTALING 35 GPM).
3. 3" CONDENSATE PIPING BELOW GRADE WITH BACKWATER VALVE IN VALVE BOX WITH CAST IRON COVER. (APPROX. IN. EL. 24" BELOW FINISHED FLOOR.
4. 4" SANITARY WASTE PIPING BELOW GRADE WITH 2-WAY EXTERIOR CLEANOUT. REFER TO CIVIL SITE UTILITY PLAN FOR CONTINUATION. (18 DFU & PRELIMINARY APPROX. IN. EL. 60" BELOW FINISHED FLOOR).
5. TRANSITION FROM ARCH. DOWNSPOUT TO 6" ST (3,793 SQ. FT. @ 197 GPM). OFF SET BELOW GRADE WITH FOOTER AS REQUIRED. REFER TO CIVIL UTILITY PLAN FOR CONTINUATION.
6. TRANSITION FROM ARCH. DOWNSPOUT TO 6" ST (3,500 SQ. FT. @ 182 GPM). OFF SET BELOW GRADE WITH FOOTER AS REQUIRED. REFER TO CIVIL UTILITY PLAN FOR CONTINUATION.
7. TRANSITION FROM ARCH. DOWNSPOUT TO 6" ST (3,934 SQ. FT. @ 205 GPM). OFF SET BELOW GRADE WITH FOOTER AS REQUIRED. REFER TO CIVIL UTILITY PLAN FOR CONTINUATION.
8. TRANSITION FROM ARCH. DOWNSPOUT TO 6" ST (5,211 SQ. FT. @ 271 GPM). OFF SET BELOW GRADE WITH FOOTER AS REQUIRED. REFER TO CIVIL UTILITY PLAN FOR CONTINUATION.
9. TRANSITION FROM ARCH. DOWNSPOUT TO 6" ST (1,499 SQ. FT. @ 78 GPM). OFF SET BELOW GRADE WITH FOOTER AS REQUIRED. REFER TO CIVIL UTILITY PLAN FOR CONTINUATION.
10. TRANSITION FROM ARCH. DOWNSPOUT TO 6" ST (5,142 SQ. FT. @ 268 GPM). OFF SET BELOW GRADE WITH FOOTER AS REQUIRED. REFER TO CIVIL UTILITY PLAN FOR CONTINUATION.
11. TRANSITION FROM ARCH. DOWNSPOUT TO 4" ST (2,014 SQ. FT. @ 105 GPM). OFF SET BELOW GRADE WITH FOOTER AS REQUIRED. REFER TO CIVIL UTILITY PLAN FOR CONTINUATION.

PLUMBING GENERAL NOTES:

1. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF PLUMBING SYSTEMS WITH STRUCTURE AND SYSTEMS (PIPING, DUCTWORK, CONDUIT, ETC.) PROVIDING OFFESTS AS REQUIRED.
2. REFER TO RISERS FOR COMPLETE PIPE SIZING.
3. COORDINATE UNDERGROUND PLUMBING PIPING WITH STRUCTURAL FOUNDATION PLANS PRIOR TO INSTALLATION OF FOUNDATION PIPING. COORDINATE DROP/STEP DOWN OF FOOTINGS AND FOUNDATION STRUCTURES AS REQUIRED WITH PLUMBING SERVICES. AVOID PENETRATION OF FOUNDATION STRUCTURES (FOOTINGS, ETC.) UNLESS PRE APPROVED, SLEEVED AND INSTALLED PER STRUCTURAL ENGINEER DIRECTION. PIPING ROUTED BELOW GRADE BEAMS SHALL BE SLEEVED (2 PIPE SIZES LARGER FOR ENTIRE WIDTH OF GRADE BEAM ZONE OF INFLUENCE = 1'-0" MIN. ON EACH SIZE. REFER TO STRUCTURAL DRAWING DETAILS FOR ADDITIONAL INFORMATION.
4. COORDINATE ENTERING AND LEAVING LOCATIONS AND INVERTS OF PLUMBING SERVICES WITH SITE UTILITIES PRIOR TO ANY SITE OR BLDG SYSTEM INSTALLATIONS.
5. ALL HORIZONTAL SANITARY PIPING 3" AND LARGER SHALL BE SLOPED AT 1/8" PER FOOT; 2-1/2" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT.
6. ALL STORM PIPING SHALL BE SLOPED AT 1/8" PER FOOT MINIMUM.



OVERALL FOUNDATION PLAN - PLUMBING 3/32" = 1'-0" (1)

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PROJECT STATUS

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PROJECT NAME

RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION

1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

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1007657.00

SHEET TITLE

FOUNDATION PLAN - EVIDENCE/FIRING RANGE - PLUMBING

SHEET NUMBER

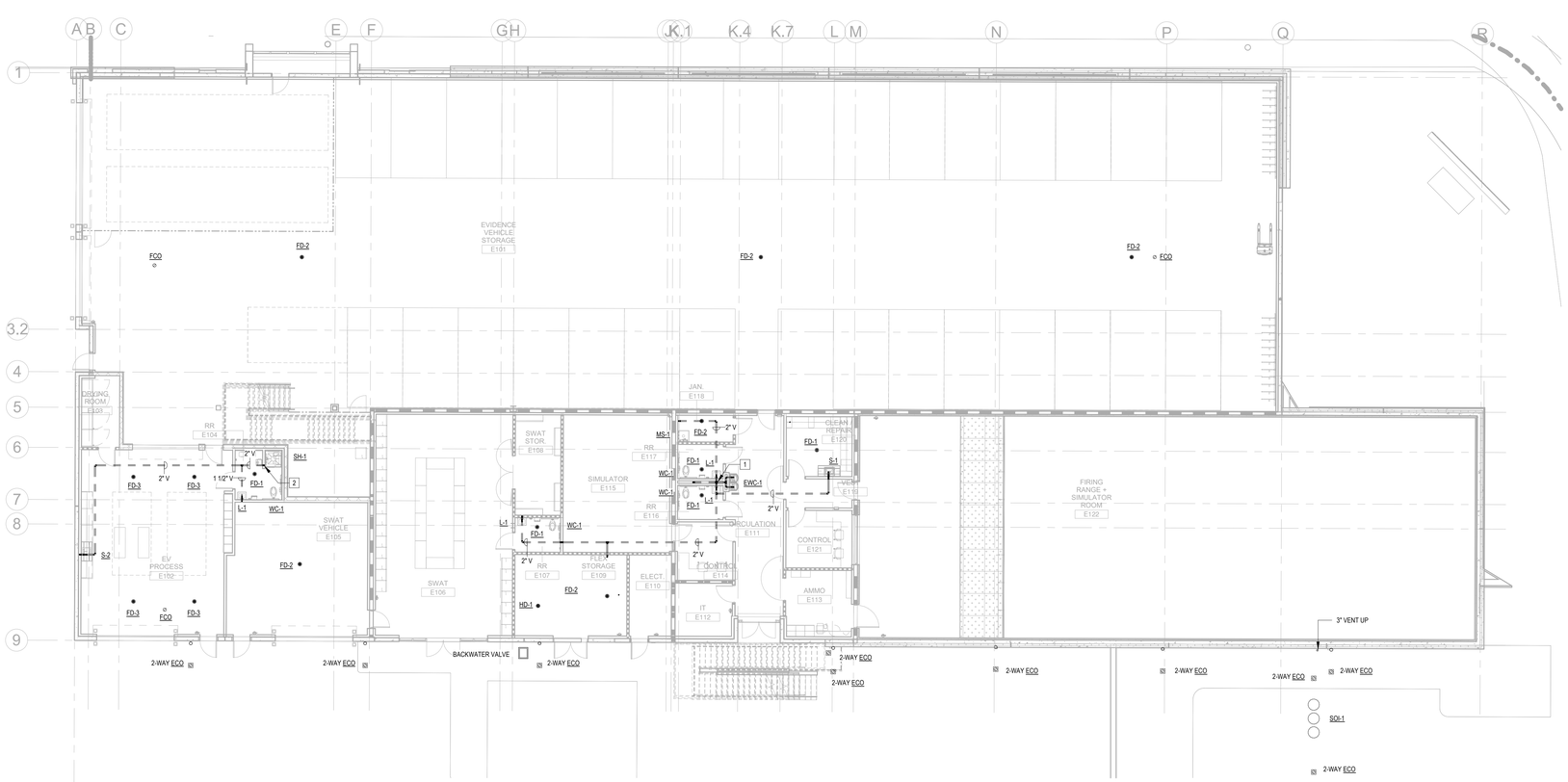
P1.00E

PLUMBING KEYNOTES [X] :

1. 3" VENT UP, 3"V.T.R.
2. 2" VENT UP, 2"V.T.R.

PLUMBING GENERAL NOTES:

1. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF PLUMBING SYSTEMS WITH STRUCTURE AND SYSTEMS (PIPING, DUCTWORK, CONDUIT, ETC.) PROVIDING OFFESTS AS REQUIRED.
2. REFER TO RISERS FOR COMPLETE PIPE SIZING.
3. WHERE PIPING IS ROUTED DOWN WITHIN CMU WALLS, CONTRACTOR SHALL COORDINATE INSTALLATION TO MINIMIZE CHIPPING AND CUTTING OF BLOCK. ROUTE WITHIN CMU CORE OPENINGS WHICH ARE NOT GROUTED SOLID. INSTALL PIPING PRIOR TO CMU INSTALLATION WHEN FEASIBLE. COORDINATE ROUTING WITH STRUCTURAL.
4. PROVIDE WALL AND CEILING ACCESS PANELS FOR VALVES AND ACCESSORIES REQUIRING ACCESS LOCATED WITHIN WALLS OR ABOVE INACCESSIBLE CEILINGS. LOCATE ACCESS PANELS AND SIZE (MINIMUM 12"X12") TO PROVIDE ADEQUATE ACCESS.
5. ALL HORIZONTAL SANITARY PIPING 3" AND LARGER SHALL BE SLOPED AT 1/8" PER FOOT; 2-1/2" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT.
6. ALL STORM PIPING SHALL BE SLOPED AT 1/8" PER FOOT MINIMUM.



OVERALL FIRST FLOOR PLAN - WASTE - PLUMBING 3/32" = 1'-0" (1)

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1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

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1007657.00

SHEET TITLE
FLOOR PLAN - EVIDENCE/FIRING RANGE - WASTE - PLUMBING

SHEET NUMBER
P1.01E

PLUMBING GENERAL NOTES:

1. MAINTAIN 10 FEET MINIMUM HORIZONTAL DISTANCE FROM VTR'S TO ANY OUTSIDE AIR INTAKE OR BUILDING OPENING.

HIGH ROOF (NORTH SIDE) ROOF AREA = 12,913 SF

HIGH ROOF (SOUTH) ROOF AREA = 4,435 SF

LOW ROOF (SHOOTING RANGE) ROOF AREA = 5,898 SF

OVERALL ROOF PLAN - PLUMBING 3/32" = 1'-0" (1)

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PROJECT STATUS

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SHEET TITLE

ROOF PLAN - EVIDENCE/FIRING RANGE - PLUMBING

SHEET NUMBER

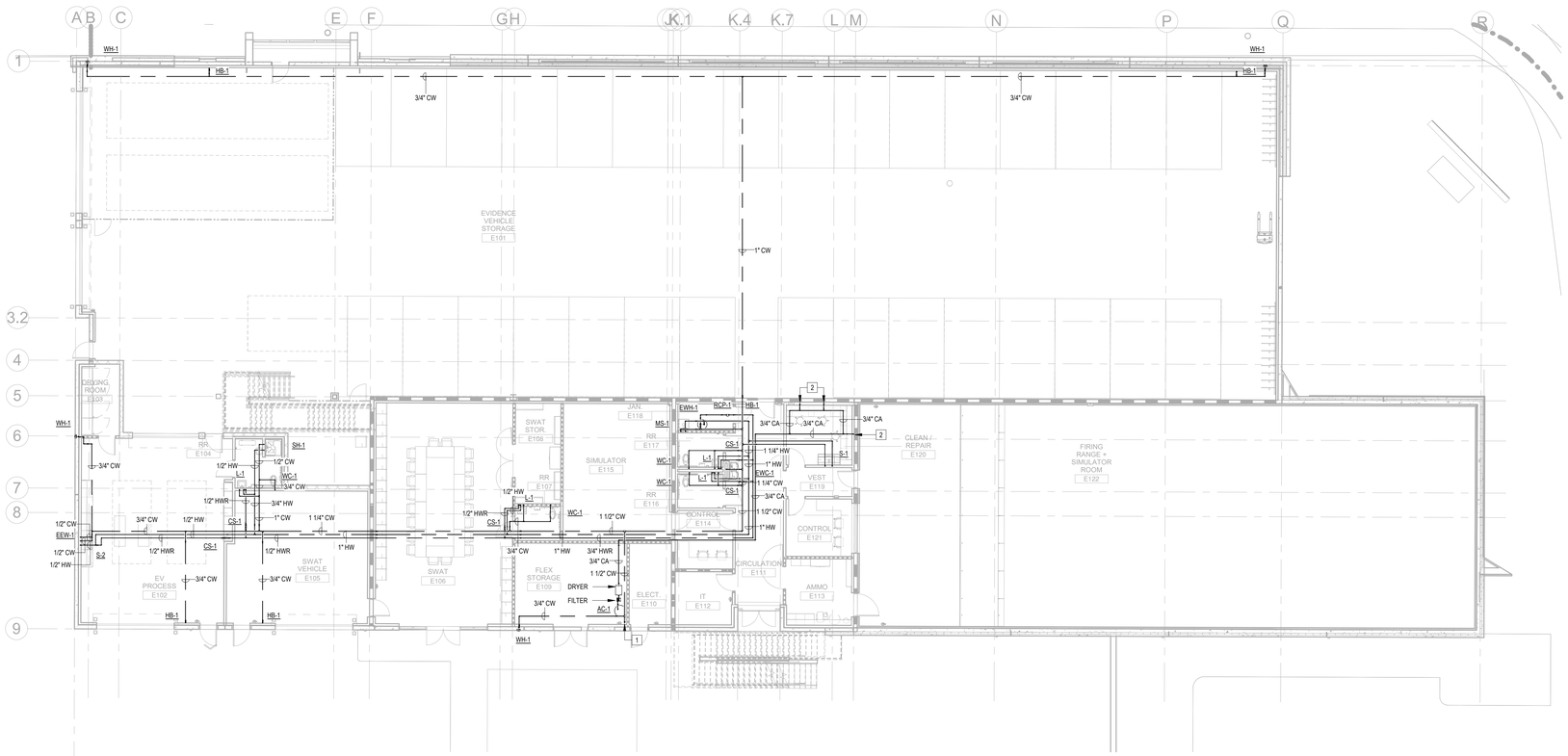
P1.10E

PLUMBING KEYNOTES [X]:

1. 1-1/2" DOMESTIC WATER PIPING DN. SEE SHEET 1/P1.00E FOR CONTINUATION.
2. 1/2" COMPRESSED AIR PIPING DN. TERMINATE WITH QUICK DISCONNECT.

PLUMBING GENERAL NOTES:

1. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF PLUMBING SYSTEMS WITH STRUCTURE AND SYSTEMS (PIPING, DUCTWORK, CONDUIT, ETC.) PROVIDING OFFESTS AS REQUIRED.
2. REFER TO RISERS FOR COMPLETE PIPE SIZING.
3. WHERE PIPING IS ROUTED DOWN WITHIN CMU WALLS, CONTRACTOR SHALL COORDINATE INSTALLATION TO MINIMIZE CHIPPING AND CUTTING OF BLOCK. ROUTE WITHIN CMU CORE OPENINGS WHICH ARE NOT GROUTED SOLID. INSTALL PIPING PRIOR TO CMU INSTALLATION WHEN FEASIBLE. COORDINATE ROUTING WITH STRUCTURAL.
4. PROVIDE WALL AND CEILING ACCESS PANELS FOR VALVES AND ACCESSORIES REQUIRING ACCESS LOCATED WITHIN WALLS OR ABOVE INACCESSIBLE CEILINGS. LOCATE ACCESS PANELS AND SIZE (MINIMUM 12"X12") TO PROVIDE ADEQUATE ACCESS.



OVERALL FIRST FLOOR PLAN - DOMESTIC - PLUMBING 3/32" = 1'-0" (1)

FILE NAME: Autodesk Docs://_1007657.00_-_CORE_-_City of Riviera Beach D/RBPD_Evidence and Firing Range_MEPF_R24.rvt
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CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

ARCHITECT OF RECORD

PGAL, Inc.
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1641 Worthington Rd
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PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
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REGISTRATION

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MAITLAND, FL 32751
FL REG. NO.: PE57743

DRAWING HISTORY

No	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

CMTA
A LEGENCE Company
4 Harvard Cir. Suite 600 | West Palm Beach, FL 33409
561.688.8575 | cmta.com

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

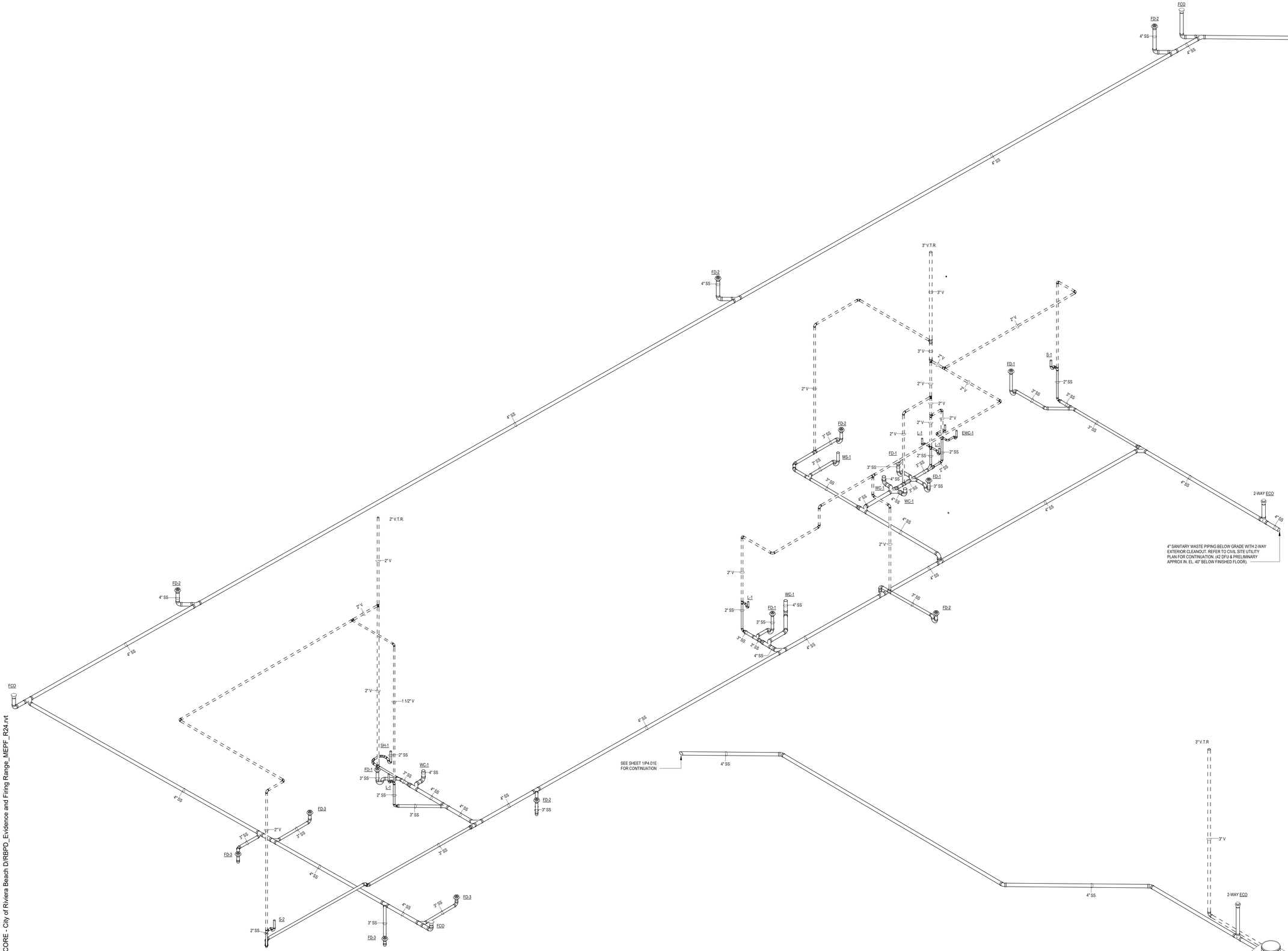
PROJECT NAME
RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
FLOOR PLAN - EVIDENCE/FIRING RANGE - DOMESTIC - PLUMBING

SHEET NUMBER
P2.01E



1 WASTE & VENT RISER (PART 1) - PLUMBING

2 WASTE & VENT RISER (PART 2) - PLUMBING

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/RBPD_Evidence and Firing Range_MEPF_R24.rvt
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DRAWING HISTORY

№	DATE	DESCRIPTION
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

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PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

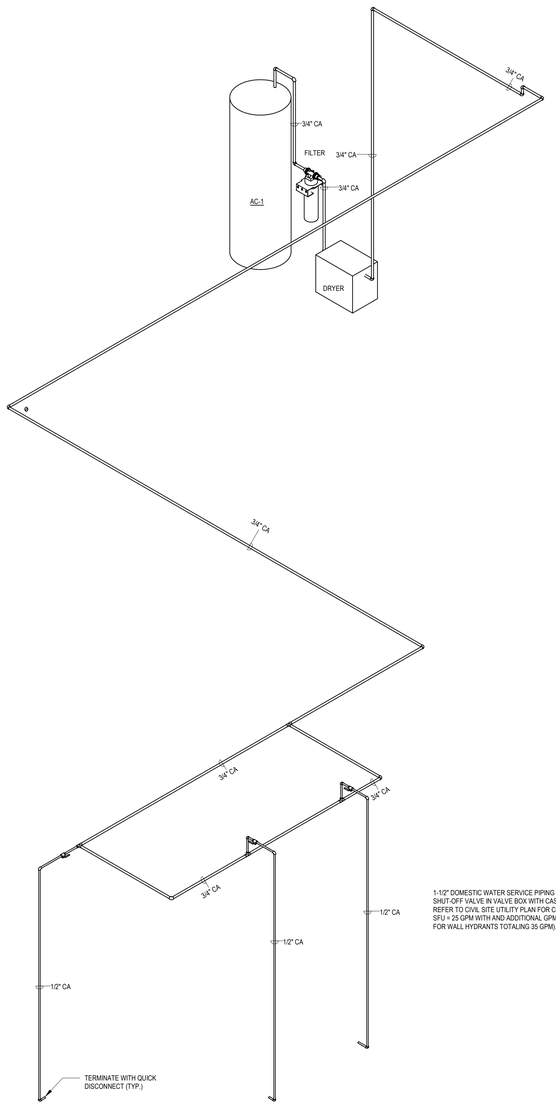
PROJECT NAME
RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

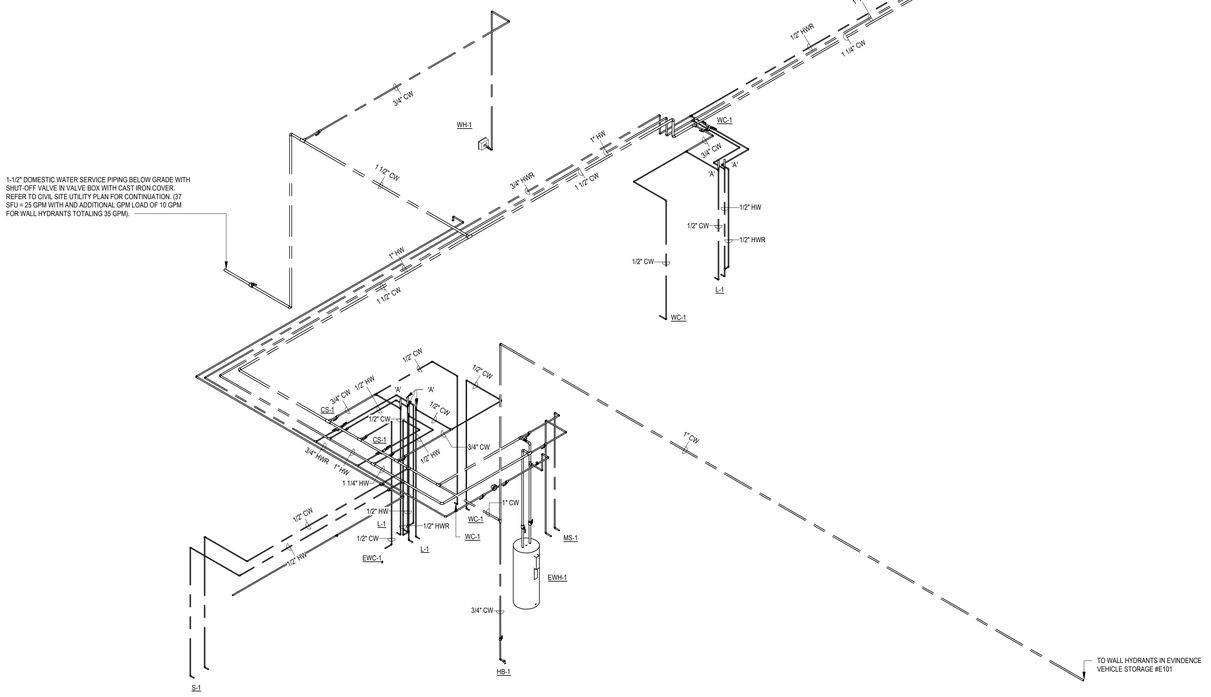
PROJECT NUMBER
1007657.00

SHEET TITLE
WASTE & VENT RISER - PLUMBING

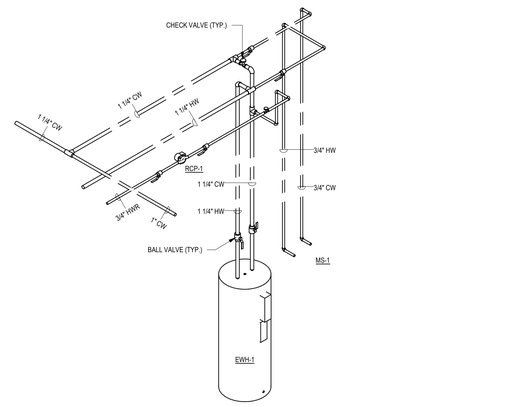
SHEET NUMBER
P4.01E



3 COMPRESSED AIR RISER - PLUMBING



1 DOMESTIC WATER RISER - PLUMBING



2 WATER HEATER PIPING DIAGRAM - PLUMBING

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PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

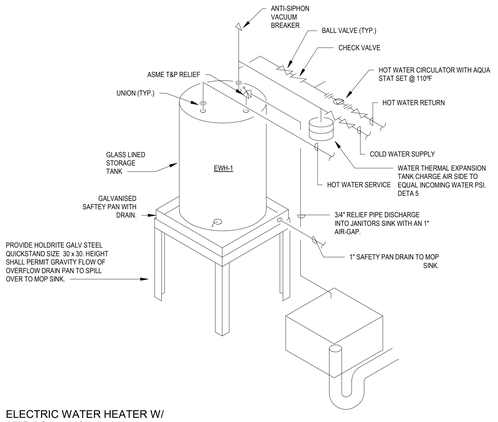
PROJECT NAME
RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
DOMESTIC WATER & COMPRESSED AIR RISER - PLUMBING

SHEET NUMBER
P4.02E



10 ELECTRIC WATER HEATER W/ RECIRCULATION PUMP
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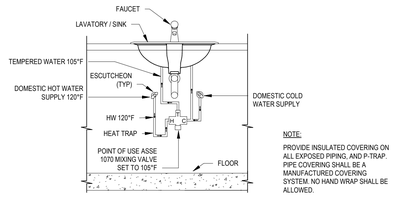

11 ASSE 1070 POINT OF USE MIXING VALVE DETAIL - PLUMBING
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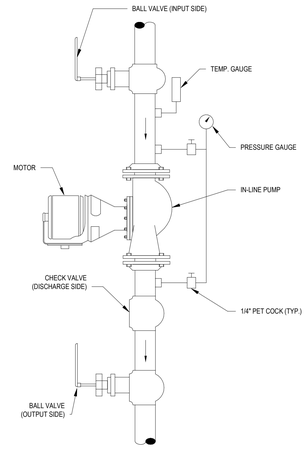

12 TYPICAL IN-LINE PUMP DETAIL
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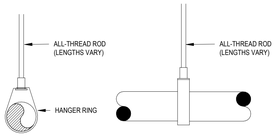

4 NON-INSULATED HANGER DETAIL
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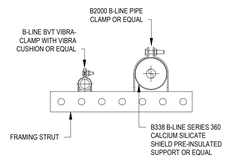

5 INSULATED & NON-INSULATED STRUT MOUNT DETAIL
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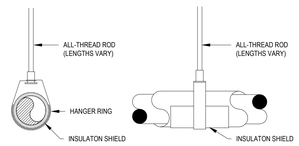

6 INSULATED HANGER DETAIL
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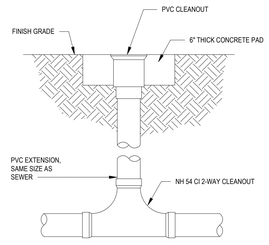

7 LISTED TWO WAY CLEANOUT FITTING DETAIL
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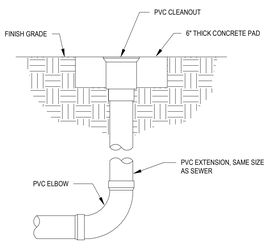

8 (ELBOW) EXTERIOR 1-WAY CLEANOUT DETAIL
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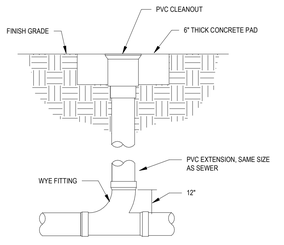

9 (WYE) EXTERIOR 1-WAY CLEANOUT DETAIL
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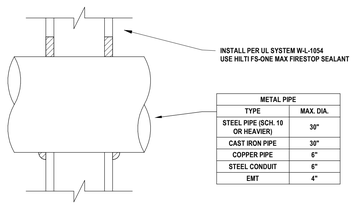
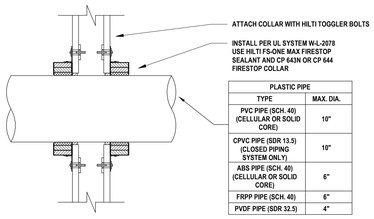


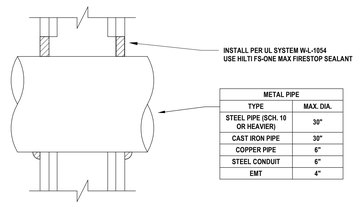
METAL PIPE	
TYPE	MAX. DIA.
STEEL PIPE (SCH. 10 OR HEAVIER)	30"
CAST IRON PIPE	30"
COPPER PIPE	6"
STEEL CONDUIT	6"
EMT	4"

METAL PIPE THROUGH GYPSUM WALL ASSEMBLY (1-HR.)
NTS



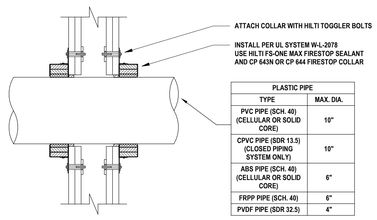
PLASTIC PIPE	
TYPE	MAX. DIA.
PVC PIPE (SCH. 40) (CELLULAR OR SOLID CORE)	10"
CPVC PIPE (SDR 13.5) (CLOSED PIPING SYSTEM ONLY)	10"
ABS PIPE (SCH. 40) (CELLULAR OR SOLID CORE)	6"
FRPP PIPE (SCH. 40)	6"
PVDF PIPE (SDR 32.5)	4"

PLASTIC PIPE THROUGH GYPSUM WALL ASSEMBLY (1-HR.)
NTS



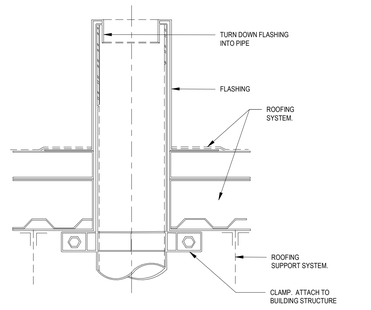
METAL PIPE	
TYPE	MAX. DIA.
STEEL PIPE (SCH. 10 OR HEAVIER)	30"
CAST IRON PIPE	30"
COPPER PIPE	6"
STEEL CONDUIT	6"
EMT	4"

METAL PIPE THROUGH GYPSUM WALL ASSEMBLY (2-HR.)
NTS

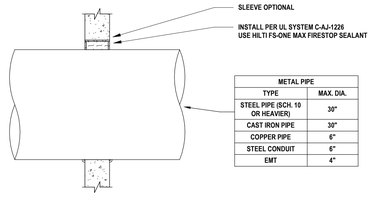


PLASTIC PIPE	
TYPE	MAX. DIA.
PVC PIPE (SCH. 40) (CELLULAR OR SOLID CORE)	10"
CPVC PIPE (SDR 13.5) (CLOSED PIPING SYSTEM ONLY)	10"
ABS PIPE (SCH. 40) (CELLULAR OR SOLID CORE)	6"
FRPP PIPE (SCH. 40)	6"
PVDF PIPE (SDR 32.5)	4"

PLASTIC PIPE THROUGH GYPSUM WALL ASSEMBLY (2-HR.)
NTS

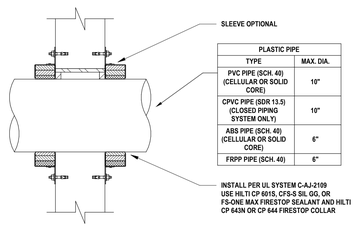


3 VENT THRU ROOF DETAIL
N.T.S.



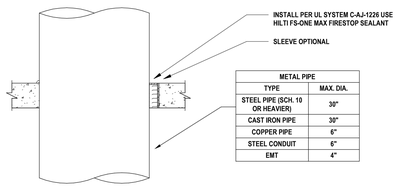
METAL PIPE	
TYPE	MAX. DIA.
STEEL PIPE (SCH. 10 OR HEAVIER)	30"
CAST IRON PIPE	30"
COPPER PIPE	6"
STEEL CONDUIT	6"
EMT	4"

METAL PIPE THROUGH CONCRETE WALL (2-HR.)
NTS



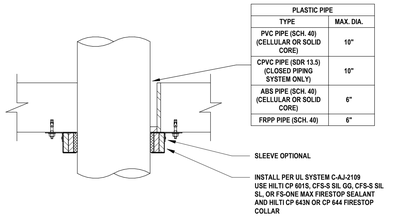
PLASTIC PIPE	
TYPE	MAX. DIA.
PVC PIPE (SCH. 40) (CELLULAR OR SOLID CORE)	10"
CPVC PIPE (SDR 13.5) (CLOSED PIPING SYSTEM ONLY)	10"
ABS PIPE (SCH. 40) (CELLULAR OR SOLID CORE)	6"
FRPP PIPE (SCH. 40)	6"

PLASTIC PIPE THROUGH CONCRETE WALL (2-HR.)
NTS



METAL PIPE	
TYPE	MAX. DIA.
STEEL PIPE (SCH. 10 OR HEAVIER)	30"
CAST IRON PIPE	30"
COPPER PIPE	6"
STEEL CONDUIT	6"
EMT	4"

METAL PIPE THROUGH CONCRETE FLOOR (2-HR.)
NTS



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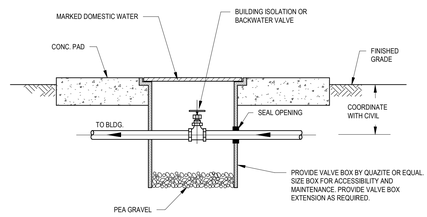
FRPP PIPE (SCH. 40)	6"

PLASTIC PIPE THROUGH CONCRETE FLOOR (2-HR.)
NTS



2 VALVEBOX DETAIL
N.T.S.

1 UL FIRE PENETRATIONS
N.T.S.

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WINTER PARK, FL
FL. REG. NO.: 0107141

DRAWING HISTORY

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A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

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PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
DETAILS - PLUMBING

SHEET NUMBER
P5.01E

SPECIFICATIONS

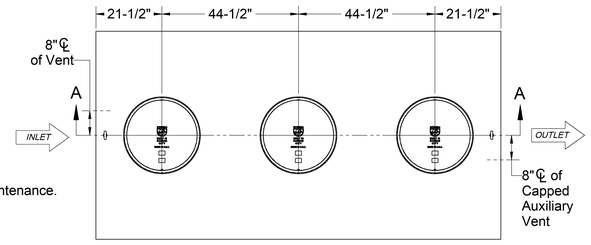
1. 6" Plain End inlet/outlet shown, 3" Plain End vents standard.
2. Max flow rate: 314 GPM.
3. Liquid capacity: 1500 gallons (201 cu. ft.).
4. Oil capacity: 488 gallons.
5. Solids capacity: 825 gallons.
6. Unit weight: 1676 lbs.
7. Maximum operating temperature 140˚F continuous.

NOTES

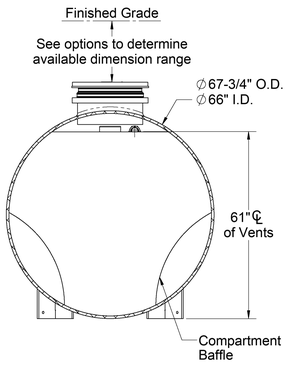
1. For gravity drainage applications only.
2. Do not use for pressure applications.
3. Capped auxiliary vent provided to allow flexibility with vent piping and design. Provided cap can be moved to unused vent location, or discarded if two chamber vents are required per local code.
4. Cover placement allows full access to tank for proper maintenance.
5. Lifting lug set for easy install.
6. Maximum burial depth: 106" from standard cover height.

ENGINEER SPECIFICATION GUIDE

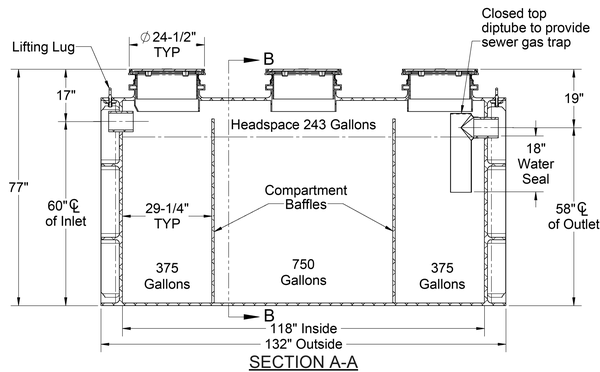
Striem oil separator model OT-1500 shall be lifetime guaranteed and made in the USA. Separator shall be constructed of polyethylene with 7/8" nominal wall thickness. Separator shall be manufactured for below-grade installation. Field-adjustable riser system is available as an option to bring manhole covers to grade. Separator flow rate shall be 314 GPM. Separator liquid holding capacity shall be 1500 gallons and oil capacity shall be 488 gallons. Solids capacity shall be 825 gallons. Covers shall be H20 rated pickable cast iron. Separator shall be certified to IAPMO IGC 183-2016 and carry a UPC listing.



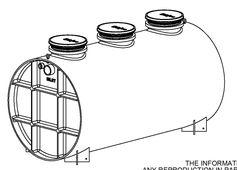
TOP VIEW



SECTION B-B



SECTION A-A



UPC ®

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OPTIONS

Connection Options (Plain End Only)

Inlet / Outlet

- ☐ 4"
- ☐ 6"
- ☐ 8"

SELECTION REQUIRED

Riser Options

From Factory: Up to 5"

- ☐ Up to 24": **SR24** (3)
- ☐ Up to 39": **LR24** (3)
- ☐ Up to 43": **SR24** (6)
- ☐ Up to 58": **SR24** (3) + **LR24** (3)
- ☐ Up to 72": **LR24** (6)
- ☐ Up to 90": **SR24** (3) + **LR24** (6)
- ☐ Up to 106": **LR24** (9)

- OR -

☐ **CPRK** (3): 11" - 106"
(See specification for more detail.)

Additional Options

- ☐ **HDK-6**: High Water Table Hold Down Kit
- ☐ **SS**: Slick Stick™ Oil Level Monitoring System*

*Monitoring system will raise covers by 3".

OIL SEPARATOR CALCULATIONS	
SERVICE AREA	12900 SQ. FT.
OIL SEPARATOR SIZING	
6.0 CU. FT. FOR FIRST 100 SQ. FT. OF DRAINAGE AREA	6 CU. FT.
1.0 CU. FT. FOR EACH ADDITIONAL 100 SQ. FT. OF DRAINAGE AREA	128 CU. FT.
CU. FT. REQUIREMENT	134 CU. FT.
GAL. REQUIREMENT	1003 GAL

Sizing methodology complies with UPC section 1017.2 and IPC section 1003.4.2.2.

MODEL NUMBER:	OT-1500	**SPECIFICATION SHEET**	
DESCRIPTION:	OIL TANKER™ POLYETHYLENE OIL SEPARATOR 1500 GALLON CAPACITY	**Striem** **Kansas City, KS** **Tel: 913-222-1500** **orders@striemco.com** **www.striemco.com** **Made in the U.S.A**	STRIEM
DWG BY: ENG	**DATE:** 1/24/2025	**REV:** 1	

1 SAND/OIL INTERCEPTOR DETAIL - PLUMBING
N.T.S.

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/RBPD_Evidence and Firing Range_MEPF_R24.rvt
DATE STAMP: 10/23/2025 8:43:12 AM

CLIENT

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REGISTRATION

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DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

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PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
DETAIL - PLUMBING

SHEET NUMBER
P5.02E

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE DESCRIPTION	MANUFACTURES MODEL	FAUCET/ FLUSH VALVE MODEL	FIXTURE CONNECTION SIZES					ACCESSORIES
				C.W.	H.W.	MIXED	WASTE	VENT	
WC-1	WATER CLOSET FLOOR SET ADA FLUSH TANK	AMERICAN STANDARD #215AA.104	-	1/2"	-	-	4"	2"	PROVIDE AMERICAN STANDARD #5901.100SS ELOGATED SEAT.
L-1	LAVATORY WALL HUNG	AMERICAN STANDARD #0355.012	T & S BRASS #ECW3158	1/2"	-	1/2"	1-1/2"	1-1/2"	PROVIDE POINT OF USE THERMOSTATIC MIXING VALVE LAWLER #TMM1070. SET TEMP. 105°. PROVIDE WITH MCGUIRE 2165 ANGLE STOPS, MCGUIRE 8912 P-TRAP AND CLEANOUT PLUG WITH MCGUIRE #100WC OFFSET STRAINER. PROVIDE CHROME PLATED WALL NIPPLES & ESCHUTCHEONS. PROVIDE TRUEBRO P-TRAP & ANGLE VALVE COVER.
S-1	SINK DROP IN	ELKAY #DLRQ191910	CHICAGO FAUCET #786-245ABCP	1/2"	1/2"	-	2"	1-1/2"	STAINLESS STEEL SINK WITH STRAINER AND MCGUIRE 2165 LOOSE KEY SUPPLIES, MCGGUIRE 8902 P-TRAP.
S-2	SINK DROP IN	ELKAY #DLRQ221910	CHICAGO FAUCET #786-245ABCP	1/2"	1/2"	-	2"	1-1/2"	STAINLESS STEEL SINK WITH STRAINER AND MCGUIRE 2165 LOOSE KEY SUPPLIES, MCGGUIRE 8902 P-TRAP.
SH-1	SHOWER	FREEDOM SHOWERS #APF3838LDPANSS (SHOWER PAN)	AMERICAN STANDARD #TU662SG.213	1/2"	1/2"	-	2"	1-1/2"	-
MS-1	MOP SINK 24" X 24"	FIAT #MSB2424	FIAT #830-AA	3/4"	3/4"	-	3"	1-1/2"	FIAT #889-CC MOP HANGER, FIAT #832-AA HOSE BRACKET, FIAT #E-99-AA BUMPER GUARD AND FIAT #MSG2424 WALL GUARD.
EWC-1	ELECTRIC WATER COOLER	ELKAY #LZSTL8WSSK	-	1/2"	-	-	2"	1-1/2"	-
EEW-1	EMERGENCY EYE/FACEWASH	HAWS #7610	-	1/2"	-	-	-	-	-

NOTES:

- FIXTURE TO BE WHITE IN COLOR UNLESS OTHERWISE NOTED
- ADA WATER CLOSETS SHALL HAVE FLUSH HANDLE ON WIDE SIDE OF TOILET STALL. COORDINATE FLUSH VALVE WITH GRAB BARS.
- ADA LAVATORIES AND SINKS SHALL HAVE TRAP INSULATION KIT TO COVER P-TRAP AND SUPPLIES.
- ADA FIXTURES MOUNTING HEIGHT PER LOCAL, STATE HANDICAP CODES.
- CONTRACTOR TO PROVIDE TRAP, CARRIER, SUPPLIES LINES AND DRAINS REQUIRED BY FIXTURES.

ELECTRIC WATER HEATER SCHEDULE

MARK	FIXTURE DESCRIPTION	MANUFACTURES MODEL	GALLON CAPACITY	SET TEMPERATURE	ELECTRICAL DATA			ACCESSORIES
					VOLT	PHASE	kW	
EWH-1	ELECTRIC WATER HEATER	AO SMITH DEN-52	55	125°	**480**	**1**	**9**	INSULATION BLANKET, PLASTIC/ ALUMINUM WATER HEATER PAN

NOTES:

- PROVIDE ALL GAUGES, HEAT TRAPS, THERMOSTATS, TEMPERATURE AND PRESSURE RELIEF VALVE AND SHUT-OFF VALVES AS REQUIRED BY LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS.
- FLOOR MOUNTED HEATERS SHALL BE INSTALLED ON 4" CONCRETE HOUSE KEEPING PAD

RECIRCULATION PUMP SCHEDULE

MARK	FIXTURE DESCRIPTION	MANUFACTURES MODEL	HP	RPM	GPM/ TDH	ELECTRICAL DATA			ACCESSORIES
						VOLT	PHASE	HZ	
RCP-1	RECIRCULATION PUMP	TACO #006-B4	1/40	3250	2/4	**115**	**1**	**60**	PROVIDE TACO INDUSTRIAL FLOW SWITCH & AQUASTAT.

NOTES:

- PROVIDE ALL GAUGES, UNIONS, THERMOSTATS, VALVE AND SHUT-OFF VALVES AS REQUIRED BY LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS.
- COORDINATE WITH DIVISION 26 CONTRACTOR.
- PUMP SHALL BE ALL BRONZE WITH FLANGE CONNECTION.

AIR COMPRESSOR SCHEDULE

MARK	FIXTURE DESCRIPTION	MANUFACTURES MODEL	TYPE	CFH	MOTOR/HP	NOISE LEVEL	ELECTRICAL DATA			ACCESSORIES
							VOLT	PHASE	HZ	
AC-1	AIR COMPRESSOR 80 GALLON VERTICAL TANK	QUINCY #QT-5	SINGLE STAGE	17 @ 175 PSI	5	70 DBA	480	3	60	PROVIDE QUINCY #QRHT-50 AIR DRYER AND #QMF 25 AIR FILTER. INSTALL PER MANFACTURERS INSTRUCTIONS.

PLUMBING EQUIPMENT SCHEDULE

MARK	FIXTURE DESCRIPTION	MANUFACTURES MODEL	ACCESSORIES / NOTES
FCO	FLOOR CLEANOUT	WATTS CO-200-R	-
WCO	WALL CLEANOUT	WATTS CO-590-RD	-
ECO	EXTERIOR FLOOR CLEANOUT	WATTS CO-200-RX-4	-
HB-1	HOSE BIB MILD CLIMATE	WOODFORD #24	MOUNT @ 18" AFF.
WH-1	WALL HYDRANT MILD CLIMATE	WOODFORD #B74	PROVIDE TWO (2) SETS OF LOOSE KEYS. MOUNT @ 18" AFG.
FD-1	FLOOR DRAIN	ZURN #Z415B-VP	PROVIDE BARRIER TRAP SEAL PROTECTION DEVICE (ASSE 1072). JAY R. SMITH QUAD CLOSE TRAP SEAL OR APPROVED EQUAL
FD-2	FLOOR DRAIN HEAVY DUTY	ZURN #Z520-Y	PROVIDE BARRIER TRAP SEAL PROTECTION DEVICE (ASSE 1072). JAY R. SMITH QUAD CLOSE TRAP SEAL OR APPROVED EQUAL
FD-3	FLOOR DRAIN HEAVY DUTY	ZURN #Z520-SS-Y	PROVIDE BARRIER TRAP SEAL PROTECTION DEVICE (ASSE 1072). JAY R. SMITH QUAD CLOSE TRAP SEAL OR APPROVED EQUAL
HD-1	HUB DRAIN	WATTS FD-100-ER-15	-
CS-1	BALANCING VALVE	CIRCUIT SOLVER CSUAS-1/2-110-CV1	-
SOI-1	SAND/OIL INTERCEPTOR	STRIEM #OT-1500	PROVIDE H20 TRAFFIC RATED PICKABLE CAST IRON COVER AND HDK-6 HIGH WATER ANCHOR KIT.

SHOCK ARRESTOR SCHEDULE

DESIGNATION	MANUFACTURER	SERIES	FIXTURE UNITS
A	WATTS	LF15M2-A	1-11
B	WATTS	LF15M2-B	12-32
C	WATTS	LF15M2-C	33-60
D	WATTS	LF15M2-D	61-113
E	WATTS	LF15M2-E	114-154
F	WATTS	LF15M2-F	155-330

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PROJECT NUMBER
1007657.00

SHEET TITLE
SCHEDULES - PLUMBING

SHEET NUMBER
P6.01E

GENERAL LEGEND AND SYMBOLS

- PIPE UP THROUGH PLAN
- PIPE DOWN THROUGH PLAN
- DIRECTION OF FLOW IN PIPE
- PIPE UP
- PIPE DOWN
- G — PIPE GUIDE
- FLEXIBLE PIPE CONNECTOR
- SUPPLY DIFFUSER
- SUPPLY PLAQUE DIFFUSER
- RETURN AIR GRILLE
- EXHAUST AIR GRILLE
- XIX — RIGID DUCTWORK (WIDTH/DEPTH)
- ELBOW WITH TURNING VANES
- MANUAL SPLITTER DAMPER
- FLEXIBLE DUCT WITH SPIN-IN FITTING AND MANUAL VOLUME DAMPER
- MANUAL VOLUME DAMPER
- X — KEYNOTE DESIGNATION
- ΔT — DELTA T (TEMPERATURE DIFFERENCE)
- CD — CONDENSATE DRAIN LINE
- R — REFRIGERANT LINES
- FD — FIRE DAMPER
- BDD — BACKDRAFT DAMPER
- MVD — MOTORIZED VOLUME DAMPER
- SD — SMOKE DAMPER
- T — THERMOSTAT
- H — HUMIDISTAT
- SD — DUCT MOUNTED SMOKE DETECTOR
- S CO — CARBON MONOXIDE SENSOR (MOUNT @36" A.F.F.)
- S CO_2 — CARBON DIOXIDE SENSOR (MOUNT @60" A.F.F.)
- BP — BIPOLAR IONIZATION UNIT
- 1 / M-0 — DETAIL OR RISER DESIGNATION / SHEET WHERE DETAIL OR RISER APPEAR

NOTE:
ALL STANDARD SYMBOLS AND ABBREVIATIONS MAY NOT APPEAR ON THE PROJECT DRAWINGS.

ABBREVIATIONS

SYMBOL	DESCRIPTION
AC	AIR CONDITIONING
ACS	AUTOMATIC CONTROL SYSTEM
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AMP	AMPERES
AP	ACCESS PANEL
APPROX	APPROXIMATELY
ARCH	ARCHITECTURAL
AUTO	AUTOMATIC
AUX	AUXILIARY
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BP	BIPOLAR IONIZATION UNIT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
BWV	BACK WATER VALVE
CAM	COMMON AREA MAINTENANCE
CC	COOLING COIL
CCP	CENTRAL CONTROL PANEL
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COMB	COMBINATION
COMPR	COMPRESSOR
COND	CONDENSATE OR CONDENSER
CONT	CONTINUATION
CU FT	CUBIC FEET
CUH	CABINET UNIT HEATER
CU IN	CUBIC INCHES
CW	DOMESTIC COLD WATER
D	DRAIN LINE
DB	DRY BULB
DEG	DEGREES
DG	DOOR GRILLE
DHC	DUCT HEATING COIL
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRIC CONNECTOR
ECO	EXTERIOR CLEANOUT
EDB	ENTERING DRY BULB TEMPERATURE
EEW	EMERGENCY EYE WAS/SHOWER
EF	EXHAUST FAN
EL	ELEVATION
ELEC	ELECTRIC
EQ	EQUAL
EVAP	EVAPORATOR
EWB	ENTERING WET BULB TEMPERATURE
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST AIR
EXIST	EXISTING
EXP	EXPANSION
°F	DEGREES FAHRENHEIT
F	FIRE SPRINKLER PIPING
FA	FREE AREA
FC	FLEXIBLE CONNECTION
FCO	FLOOR CLEANOUT
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FDPR	FIRE DAMPER
FG	FINISHED GRADE
FHC	FIRE HOSE CABINET
FIN FL	FINISHED FLOOR
FLA	FULL LOAD AMPERES
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FPI	FINS PER INCH
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FTB	FAN POWERED TERMINAL BOX
FV	FACE VELOCITY
HB	HOSE BIBB
HC	HEATING COIL
HD	HEAD

SYMBOL	DESCRIPTION
HGT	HEIGHT
HORIZ	HORIZONTAL
HP	HORSEPOWER
HR	HOUR
HRR	HEAT RECOVERY RETURN
HRS	HEAT RECOVERY SUPPLY
HW	DOMESTIC HOT WATER
HZ	HERTZ (FREQUENCY)
IN	INCH OR INCHES
INSUL	INSULATION
IPS	IRON PIPE SIZE
KW	KILOWATT
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LBS/HR	POUNDS PER HOUR
LCP	LOCAL CONTROL PANEL
LDB	LEAVING DRY BULB TEMPERATURE
LIN FT	LINEAR FEET
LWB	LEAVING WET BULB
MAX	MAXIMUM
MB	MIXING BOX
MBH	THOUSANDS OF BTUH
MC	MECHANICAL CONTRACTOR
MIN	MINIMUM
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO.	NUMBER
NO	NORMALLY OPEN
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
OV	OUTLET VELOCITY
P	PRESSURE
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PSI	POUNDS PER SQUARE INCH
PSIA	PSI ABSOLUTE
PSIG	PSI GAUGE
PRESS	PRESSURE
PVC	POLYVINYL CHLORIDE
R	RISE
RA	RETURN AIR
RAF	RETURN AIR FAN
RD	ROOF DRAIN
REQ'D	REQUIRED
RHC	REHEAT COIL
R_{HG}	REFRIGERANT HOT GAS DISCHARGE
R_L	REFRIGERANT LIQUID
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
R_S	REFRIGERANT SUCTION
RV	RELIEF VALVE
S/FDPR	COMBINATION SMOKE AND FIRE DAMPER
SAN	SANITARY
SAU	SOUND ATTENUATION UNIT
SCW	SOFT COLD WATER
SMH	STORM MANHOLE
SP	STATIC PRESSURE
SDPR	SMOKE DAMPER
SPEC	SPECIFICATION
ST	STORM
TB	TERMINAL BOX
TD	TRENCH DRAIN
TEMP	TEMPERATURE
TS	TIP SPEED
TYP	TYPICAL
TX	TOILET EXHAUST
UH	UNIT HEATER
V	VENT LINE
VAV	VARIABLE AIR VOLUME UNIT
VLV	VALVE
VTR	VENT THRU ROOF
W/	WITH
W/O	WITHOUT
W	WIDTH
WB	WET BULB
WC	WATER COLUMN
WCO	WALL CLEANOUT
WG	WATER GAUGE
WMS	WIRE MESH SCREEN
WP	WORKING PRESSURE

MECHANICAL GENERAL NOTES

1. ALL MECHANICAL WORK SHALL BE GOVERNED AND INSTALLED IN COMPLIANCE WITH THE LATEST EDITION AND APPLICABLE PROVISIONS OF THE FOLLOWING CODES AND STANDARDS:
   A. FLORIDA BUILDING CODE - 2023
   B. FLORIDA MECHANICAL CODE - 2023
   C. FLORIDA PLUMBING CODE - 2023
   D. FLORIDA ENERGY EFFICIENCY CODE - 2023
   E. FLORIDA FIRE PREVENTION CODE - 2023
   F. FLORIDA EXISTING BUILDING CODE - 2023
   G. NATIONAL ELECTRICAL CODE (NEC) - 2020
   H. NFPA 90A - INSTALLATION OF AIR CONDITIONING & VENTILATING SYSTEMS
   I. NFPA 101 - LIFE SAFETY CODE
   J. ASHRAE STANDARDS (INCLUDING 15, 55, 62.1, 90.1 & 129)
   K. ANSI
   L. SMACNA DUCTWORK STANDARDS - CURRENT EDITION
   M. AMERICANS WITH DISABILITIES ACT (ADA)
   N. ALL OTHER APPLICABLE FEDERAL, COUNTY AND CITY CODES REQUIRED BY LOCAL JURISDICTIONS
2. THE CONTRACTOR SHALL READ THE SPECIFICATIONS. THE SPECIFICATIONS AND DRAWINGS TOGETHER DEFINE THE FULL CONTRACT REQUIREMENTS. IN THE EVENT OF A DISCREPANCY BETWEEN THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT APPLIES UNLESS DIRECTION HAS BEEN PROVIDED THROUGH A FORMAL REQUEST FOR INFORMATION OR CLARIFICATION PRIOR TO THE CLOSE OF THE BIDDING.
3. ANY PROPOSED EQUIPMENT OR MATERIAL SUBSTITUTIONS SHALL BE APPROVED BY THE OWNER AND ENGINEER OF RECORD PRIOR TO THE CLOSE OF BIDDING. NO EQUIPMENT OR MATERIAL SUBSTITUTIONS WILL BE CONSIDERED ONCE THE BIDDING HAS ENDED AND THE GMP HAS BEEN ESTABLISHED.
4. AIR HANDLING SYSTEMS SHALL NOT BE ENERGIZED UNTIL ALL OF THE DRYWALL FINISHING AND PAINTING SCOPES HAVE BEEN COMPLETED. CONFIRMATION THAT THOSE SCOPES ARE REQUIRED WITH WRITTEN APPROVAL FROM THE OWNER AND ENGINEER BEFORE AIR HANDLING UNIT AND FANS CAN BE ENERGIZED. FAILURE TO OBTAIN WRITTEN APPROVAL TO ENERGIZE THE FANS WILL RESULT IN THE CLEANING OF THE ENTIRE INTERIOR OF ANY AFFECTED AIR DISTRIBUTION SYSTEM BY A LICENSED THIRD-PARTY CONTRACTOR AT NO ADDITIONAL COST.
5. ALL TEMPORARY FILTRATION AT AIR HANDLING EQUIPMENT AND ANY RETURN AIR INTAKE GRILLE SHALL BE REPLACED A MINIMUM OF ONCE A MONTH DURING PERIODS OF OPERATION DURING CONSTRUCTION. A LOG MUST BE MAINTAINED AT EACH AIR HANDLING UNIT INDICATING DATES OF FILTER REPLACEMENTS FOR INSPECTION. FAILURE TO MAINTAIN THE REQUIRED LOGS WILL RESULT IN THE CLEANING OF THE ENTIRE INTERIOR OF ANY AFFECTED AIR DISTRIBUTION SYSTEM BY A LICENSED THIRD PARTY CONTRACTOR AT NO ADDITIONAL COST.
6. ALL EQUIPMENT, DUCTWORK AND MATERIALS STORED ON THE JOBSITE SHALL BE PROPERLY PROTECTED FROM THE ELEMENTS AND CONSTRUCTION DIRT AND DEBRIS. ANY MATERIAL EXPOSED TO THE ELEMENTS WITH EXPOSED INSULATION WILL BE REQUIRED TO BE REPLACED AT NO ADDITIONAL COST. ANY EQUIPMENT OR MATERIAL THAT IS EXPOSED TO THE ELEMENTS, DIRT AND DEBRIS THAT ARE DEEMED ACCEPTABLE TO REMAIN SHALL BE THOROUGHLY CLEANED AND DISINFECTED AND SIGNED OFF ON BY THE OWNER'S REPRESENTATIVE AND THE ENGINEER OF RECORD PRIOR TO INSTALLATION.
7. ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. VERIFY ALL REQUIREMENTS WITH EQUIPMENT SUPPLIED.
8. ALL EQUIPMENT HOUSINGS AND COMPONENTS INSTALLED OUTDOORS OR WITHIN UNCONDITIONED VENTILATED SPACES THAT ARE EXPOSED TO THE ELEMENTS SHALL BE SUITABLE FOR SEACOAST APPLICATION. ANY APPLIED CORROSION RESISTANT MATERIALS SHALL BE FACTORY APPLIED.
9. EVERY PIECE OF MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH AN ENGRAVED NAMEPLATE WITH MINIMUM 1" HIGH LETTERS INDICATING EQUIPMENT DESIGNATION. ANY EQUIPMENT INSTALLED WHERE CONCEALED ABOVE CEILINGS SHALL BE NOTED WITH CLEAR ADHESIVE LABEL AT NEAREST T-GRID OR ON ACCESS PANEL IN ADDITION TO THE ENGRAVED NAMEPLATE.
10. ALL VARIABLE FREQUENCY DRIVES AND MOTOR STARTERS SHALL BE PROVIDED WITH ENGRAVED LABELS INDICATING ASSOCIATED EQUIPMENT THEY SERVE AS WELL AS THE ELECTRICAL PANEL AND CIRCUIT THAT FEEDS THE DEVICE.
11. ALL EXTERIOR MECHANICAL EQUIPMENT AND THEIR FRAMES, APPURTENANCES, COMPONENTS, SUPPORTS AND ANCHORING DEVICES SHALL BE ANCHORED TO RESIST THE FORCES DUE TO WIND PRESSURE AS REQUIRED BY THE FLORIDA BUILDING CODE.
12. ALL EQUIPMENT AND MATERIALS INSTALLED THAT INTERFACE WITH THE ROOFING SYSTEM SHALL BE COORDINATED WITH THE ROOFING SYSTEM BEING PROVIDED. ALL MECHANICAL EQUIPMENT INSTALLATIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE ROOFING MANUFACTURER TO MAINTAIN CONTINUITY AND WARRANTIES.
13. COORDINATE LOCATION OF ALL CEILING MOUNTED AIR DISTRIBUTION DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLANS AND WORK OF ALL OTHER TRADES.
14. ALL LOW-PRESSURE SUPPLY, RETURN AND EXHAUST DUCTWORK ARE DESIGNED FROM A MINIMUM OF 0.05" TO A MAXIMUM OF 0.1" OF FRICTION PER 100 FT. OF DUCT.
15. UNLESS NOTED OTHERWISE, FLEXIBLE DUCT CONNECTORS AND RIGID DUCT RUNOUTS SERVING SINGLE DIFFUSER SHALL BE THE SAME SIZE AS DIFFUSER NECK.
16. UNLESS NOTED OTHERWISE, FLEXIBLE DUCT CONNECTORS FOR VAV BOXES AND FAN TERMINAL UNIT SHALL BE THE SAME SIZE AS UNIT INLET. VERIFY ACTUAL DIMENSIONS WITH EQUIPMENT SUPPLIED.
17. PAINT INTERNAL DUCTWORK VISIBLE THROUGH DIFFUSERS, GRILLE OR LOUVER FACE FLAT BLACK.
18. DUCTWORK LAYOUTS INDICATED ON PLANS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO BE USED AS DUCT FABRICATION DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION EFFORTS BETWEEN TRADES AS OUTLINED IN THE SPECIFICATIONS.
19. ALL LOW-PRESSURE BRANCH DUCTS SHALL BE PROVIDED WITH A MANUAL VOLUME DAMPER FOR BALANCING. ALL MANUAL VOLUME DAMPERS SHALL BE PROVIDED WITH A MINIMUM 12" LENGTH OF FLUORESCENT ORANGE RIBBON TO AIDE IN VISIBILITY WHERE ABOVE CEILINGS.
20. ALL INSULATION / DUCT SEAMS SHALL BE SEALED WITH GLASS FAB, STAPLES AND MASTIC. PRESSURE SENSITIVE TAPE IS NOT AN APPROVED DUCT / INSULATION CLOSURE SYSTEM. ANY PRESSURE SENSITIVE TAPE USED WILL BE REQUIRED TO BE REMOVED AND REPLACED WITH A PROPER CLOSURE SYSTEM.
21. DUCT ACCESS DOORS SHALL BE PROVIDED WHERE ANY EQUIPMENT REQUIRING ACCESS IS INSTALLED ABOVE AN INACCESSIBLE CEILING. MINIMUM SIZE SHALL BE 12X12 OR AS LARGE AS NECESSARY TO ACCOMMODATE EQUIPMENT REPLACEMENT AND SERVICE.
22. ALL DUCT AND PIPING PENETRATIONS THROUGH TILT WALL PANELS SHALL BE COORDINATED BETWEEN THE TILT WALL AND MECHANICAL SUBCONTRACTORS PRIOR TO WALL PANEL FORMING OR DUCT FABRICATION.
23. THE FINISH OF ANY INTERIOR OR EXTERIOR EXPOSED MECHANICAL EQUIPMENT, DUCTWORK, FABRIC DUCT SYSTEMS, LOUVERS, ETC. SHALL BE CONFIRMED WITH THE ARCHITECT.
24. ALL DOORS TO INDIVIDUAL TOILETS, JANITORS CLOSETS AND OTHER SMALL SPACES WITHOUT RETURN GRILLS ARE TO BE UNDERCUT MINIMUM 1/2".
25. MOUNT SPACE MOUNTED SENSORS AT 48" TO THE CENTER UNLESS NOTED OTHERWISE.
26. ALL WALL SENSORS SHALL BE PROVIDED WITH ENGRAVED NAMEPLATE WITH 1/4" HIGH LETTERS INDICATING THE ASSOCIATED MECHANICAL EQUIPMENT IT SERVES.
27. ALL THREE PHASE MOTORS SHALL HAVE PHASE LOSS / ROTATION MONITORS.
28. PROVIDE MOTOR STARTERS FOR ALL MOTORS THAT ARE REQUIRED TO BE CONTROLLED THAT ARE NOT BEING PROVIDED WITH A VARIABLE FREQUENCY DRIVE.
29. ALL REFRIGERANT LINE RUNS SHALL BE SIZED AND INSULATED PER THE MANUFACTURER'S RECOMMENDATIONS. UNLESS NOTED OTHERWISE, PROVIDE PVC CHASES UNDERGROUND WITH DIRECT PATH TO CONDENSING UNIT TO MINIMIZE LINE SET LENGTHS AS MUCH AS POSSIBLE. ALL REFRIGERANT LINES INSTALLED EXPOSED OUTDOORS SHALL BE NEATLY RACK MOUNTED AND PROVIDED WITH ALUMINUM JACKETING.
30. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL OF THE ROOF MOUNTED PLUMBING VENTS WITH THE PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. THE CODE MINIMUM SEPARATION BETWEEN OUTDOOR AIR.
31. ALL PIECES OF MECHANICAL EQUIPMENT REQUIRING ACCESS LOCATED ABOVE HARD CEILINGS SHALL BE PROVIDED WITH ACCESS PANELS SIZED PER DRAWINGS AND/OR MANUFACTURER'S RECOMMENDATION, WHICHEVER IS LARGER. COORDINATE STYLE/COLOR/LOCATIONS OF PANEL WITH A/E/O.

COMMISSIONING SCOPE

1. INDEPENDENT COMMISSIONING SERVICES WILL BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR AND ASSOCIATED SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATION AND SUPPORT REQUIRED FOR ALL COMMISSIONING PROCEDURES AND ACTIVITIES.
2. ALL DEFICIENCIES OR ADJUSTMENTS NOTED AS REQUIRING CORRECTION BY THE COMMISSIONING AUTHORITY (CXA) SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST WITHIN FIVE CALENDAR DAYS OF NOTIFICATION.
3. PRIOR TO PASSING THE FINAL MECHANICAL INSPECTION, EVIDENCE OF THE MECHANICAL SYSTEM'S COMMISSIONING AND COMPLETION SHALL BE PROVIDED.
4. COMMISSIONING SERVICES REQUIREMENTS: COMMISSIONING SERVICES SHALL BE PROVIDED THROUGH A REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY IN ACCORDANCE WITH THE PROVISIONS OF THE FLORIDA BUILDING CODE, ENERGY CONSERVATION CODE SECTION C408. PRIOR TO PASSING THE FINAL MECHANICAL INSPECTION, EVIDENCE OF THE MECHANICAL SYSTEM'S COMMISSIONING AND COMPLETION SHALL BE PROVIDED. COPIES OF THE REQUIRED COMMISSIONING DOCUMENTATION SHALL BE PROVIDED TO THE OWNER AND MADE AVAILABLE TO THE CODE OFFICIAL UPON REQUEST.

TEST AND BALANCE SCOPE

1. THE GENERAL CONTRACTOR SHALL PROVIDE INDEPENDENT THIRD PARTY TEST AND BALANCE SERVICES.
2. THE ASSOCIATED SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATION AND SUPPORT REQUIRED FOR ALL TEST AND BALANCE PROCEDURES AND ACTIVITIES.
3. ALL DEFICIENCIES OR ADJUSTMENTS NOTED AS REQUIRING CORRECTION BY THE THIRD PARTY TEST AND BALANCE CONTRACTOR SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST WITHIN FIVE CALENDAR DAYS OF NOTIFICATION.
4. REFER TO SPECIFICATIONS FOR PRELIMINARY AND FINAL PERFORMANCE VERIFICATION REQUIREMENTS.

CLIENT

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DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

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PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

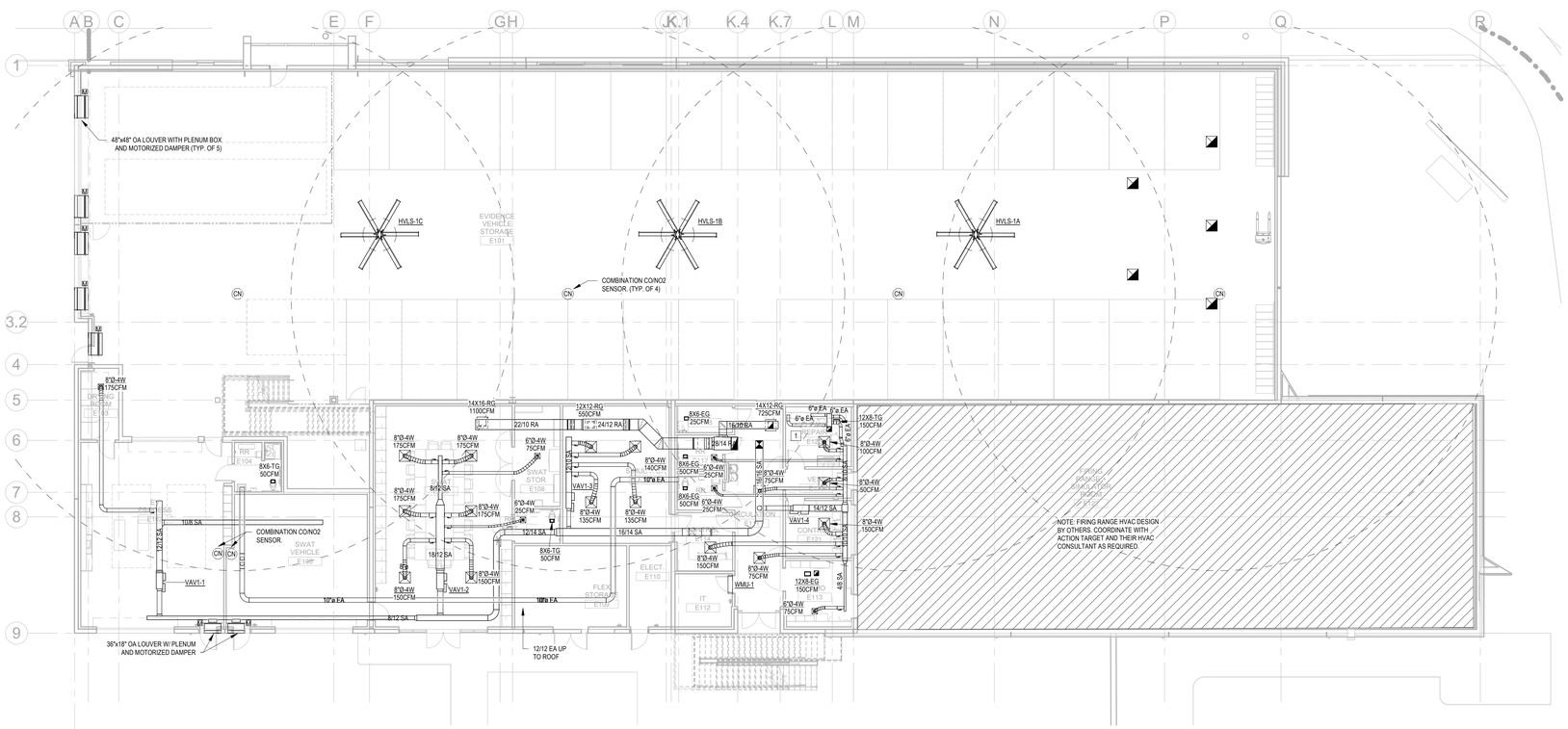
SHEET TITLE
GENERAL NOTES - HVAC

SHEET NUMBER
M0.01E

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/RBPD_Evidence and Firing Range_MEPF_R24.rvt
DATE STAMP: 10/23/2025 12:24:06 PM

HVAC KEYNOTES [X] :

1. ROUTE DUCTWORK EXHAUST WITHIN MILLWORK ENCLOSURE. PROVIDE EXHAUST GRILLE TO BOTTOM OF MILLWORK. COORDINATE WITH ARCHITECTURAL DRAWINGS.



OVERALL FIRST FLOOR PLAN - HVAC 3/32" = 1'-0" (1)

FILE NAME: Autodesk Docs://_1007657.00_-_CORE_-_City of Riviera Beach D/RBPD_Evidence and Firing Range_MEPF_R24.rvt
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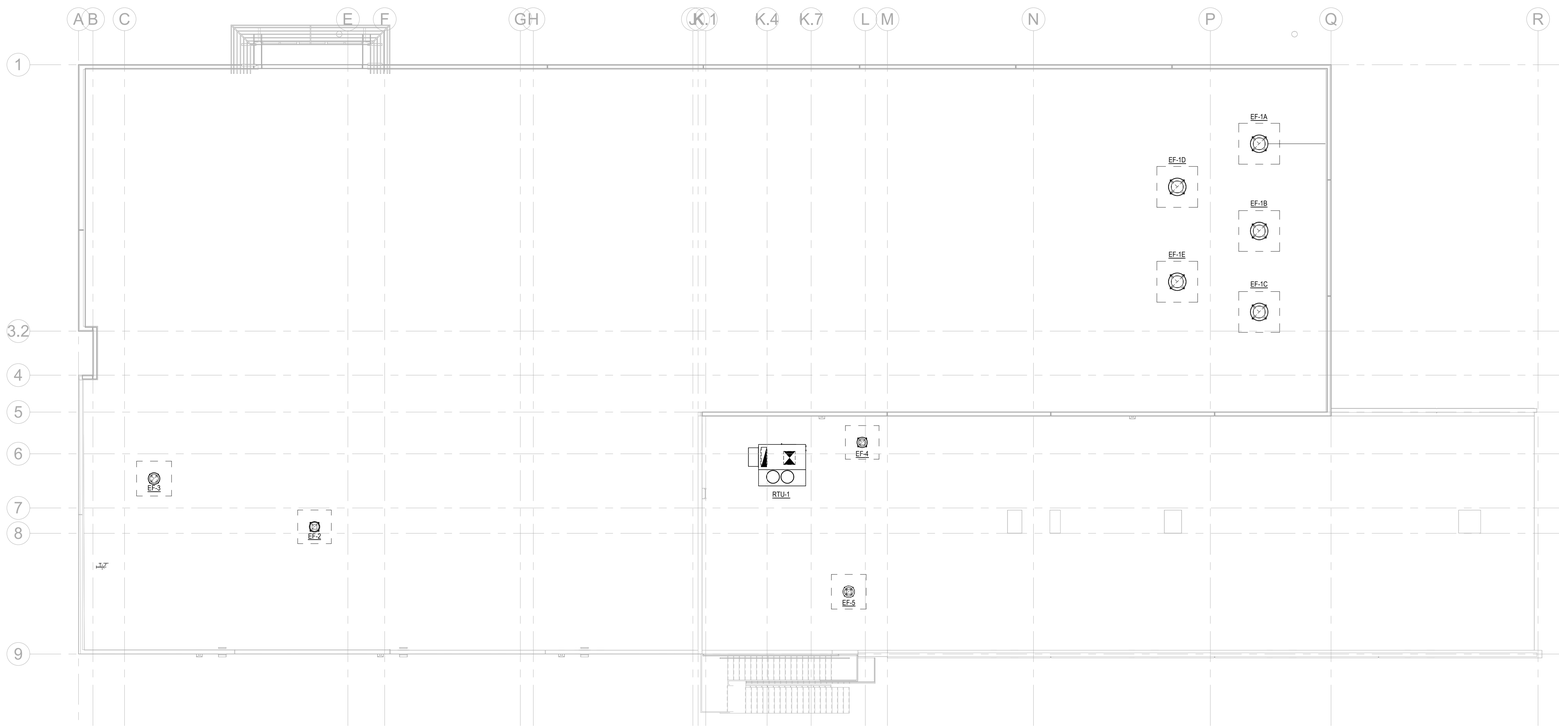
1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
FLOOR PLAN - EVIDENCE/FIRING RANGE - HVAC

SHEET NUMBER
M1.01E



OVERALL ROOF PLAN - HVAC 3/32" = 1'-0" (1)

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DATE OF ISSUE
10/14/2025

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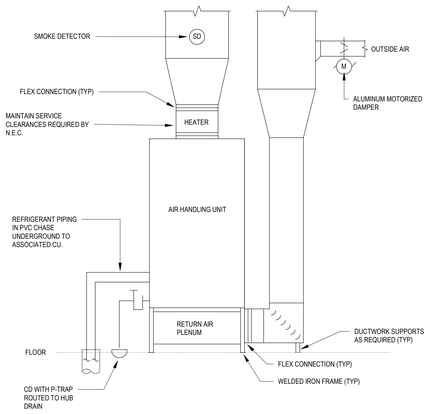
RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

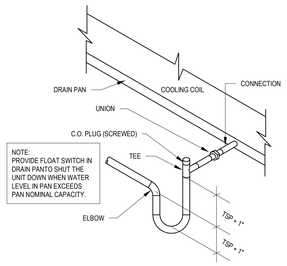
PROJECT NUMBER
1007657.00

SHEET TITLE
ROOF PLAN - EVIDENCE/FIRING RANGE - HVAC

SHEET NUMBER
M1.02E



1 AHU DX CV SPLIT SINGLE ZONE
NTS



2 CONDENSATE DRAIN - ISO
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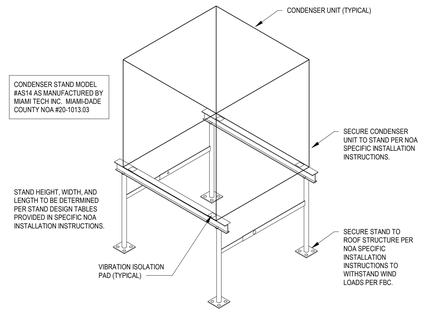
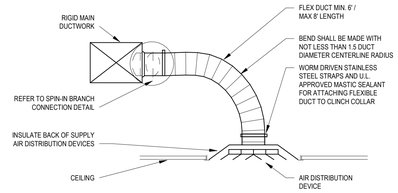
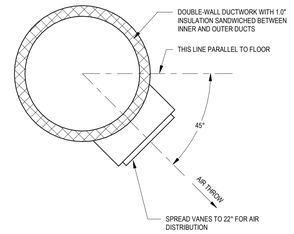


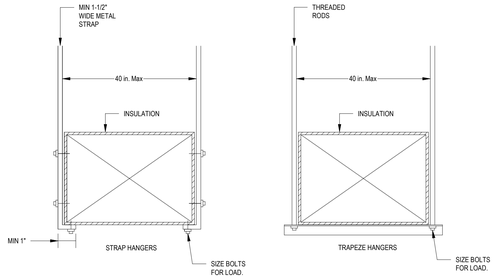
3 CONDENSER UNIT STAND ON ROOF DETAIL - HVHZ
NTS



4 DIFFUSER AND FLEX DUCT DETAIL
NTS



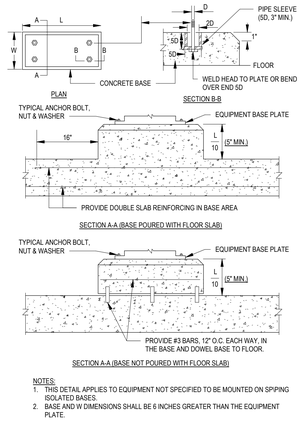
5 DRUM LOUVER DETAIL
NTS



NOTE:

1. DUCTWORK TRAPEZE HANGERS SUPPORT SHALL NOT BE COVERED BY DUCTWORK INSULATION.

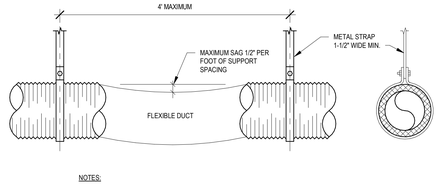
6 DUCTWORK SUPPORT
NTS



NOTES:

1. THIS DETAIL APPLIES TO EQUIPMENT NOT SPECIFIED TO BE MOUNTED ON SPRING ISOLATED BASES.
2. BASE AND W DIMENSIONS SHALL BE 6 INCHES GREATER THAN THE EQUIPMENT PLATE.

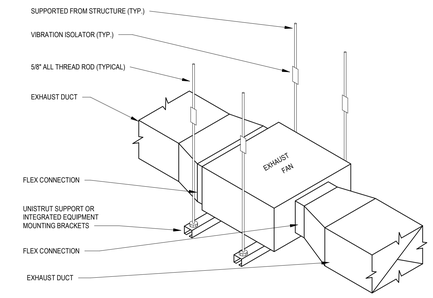
7 EQUIPMENT PAD DETAIL
NTS



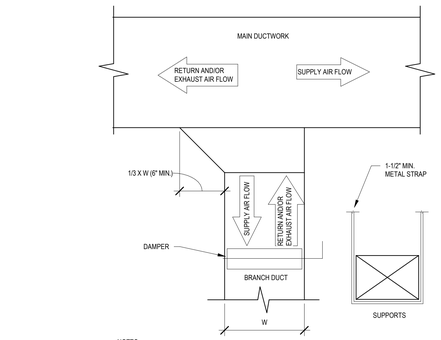
NOTES:

1. DUCT SHOULD EXTEND STRAIGHT FOR SEVERAL INCHES FROM A CONNECTION BEFORE BENDING.
2. SUPPORT SYSTEM MUST NOT DAMAGE DUCT OR CAUSE OUT OF ROUND SHAPE.

8 FLEX DUCT SUPPORT
NTS



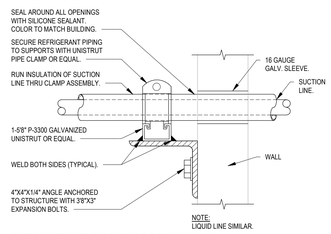
9 IN-LINE EXHAUST FAN - ISO
NTS



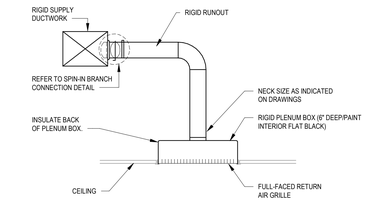
NOTES:

1. ALL SUPPLY, EXHAUST AND RETURN AIR BRANCH DUCTS SHALL BE SUPPLIED WITH A MANUAL VOLUME DAMPER FOR BALANCING. DAMPERS NOT SHOWN ON PLAN FOR CLARITY.
2. AIR FLOW ARROWS ABOVE INDICATE NEGATIVE (RETURN OR EXHAUST) OR POSITIVE AIR FLOW (SUPPLY) TO DELINEATE THE DUCT CONNECTION BOOT ORIENTATION FOR EACH DUCT SYSTEM.

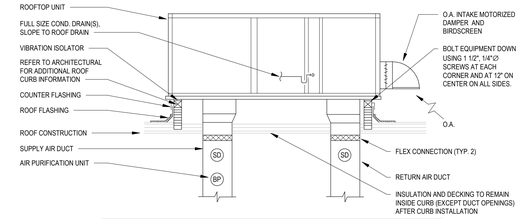
10 RECTANGULAR DUCT BRANCH
NTS



11 REFRIGERANT PIPE SUPPORT AT WALL DETAIL
NTS



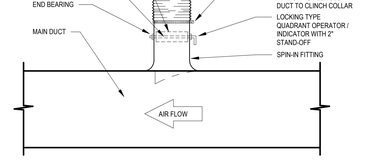
12 PLENUM BACKED RETURN GRILLE DETAIL
NTS



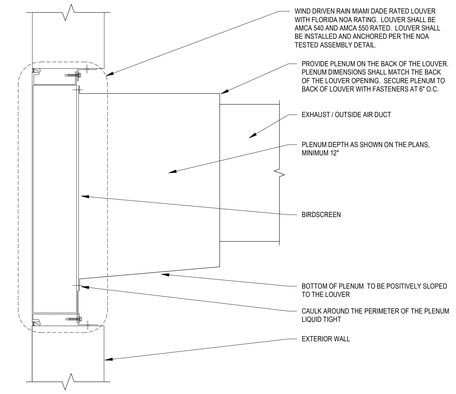
NOTES:

1. COORDINATE ALL PITCH PAN FLASHING REQUIREMENTS (IF ANY) WITH ROOFING CONTRACTOR.
2. PROVIDE 4 TO 6 INCHES BETWEEN ALL PIPE PENETRATIONS TO ENSURE PROPER FLASHING.
3. LOCATE ALL ROOF CURBS AND PENETRATIONS A MINIMUM OF 12 TO 18 INCHES AWAY FROM ALL VERTICAL WALL BASE FLASHING, OTHER CURBS, METAL ROOF JACKS AND ANY OTHER UNIT PENETRATIONS.
4. COORDINATE ALL UNIT LOCATIONS, CONDENSATE DRAIN PIPING, PRIMARY/SECONDARY ROOF DRAINAGE SYSTEMS, TRAFFIC PADS AND CROSSOVER LADDERS AS REQUIRED.
5. ALL ROOF MOUNTED EQUIPMENT SHALL BE ANCHORED TO WITHSTAND THE FORCES OF WIND AS OUTLINED IN THE CURRENT FLORIDA BUILDING CODE.

13 ROOFTOP UNIT MOUNTING DETAIL
NTS



14 TYPICAL SPIN-IN BRANCH CONNECTION
NTS



15 TYPICAL LOUVER DETAIL
NTS

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DRAWING HISTORY

No	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
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PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
DETAILS - HVAC

SHEET NUMBER
M5.01E

PACKAGED ROOFTOP UNIT SCHEDULE

MARK	SERVICE	MANUFACTURER	MODEL	TYPE	CONFIGURATION	NOMINAL SIZE LxWxH (IN.)	WEIGHT (LBS)	UNIT ELECTRICAL					OUTSIDE AIR (CFM)	SUPPLY FAN								COOLING COIL				CMTA M EER	CMTA G REMARKS
								VOLTAGE	PHASE	FREQ.	MCA	MOCP		AIRFLOW (CFM)	T.S.P / E.S.P (IN WG)	FAN TYPE	FAN QTY	DRIVE TYPE	FAN RPM	MOTOR HP	ACOUSTICS (63/125/250/500/1K/2K/4K/8K/dBA/ SONES)	CMTA AD COOLING COIL EAT/LAT DB	CMTA AD COOLING COIL EAT/LAT WB	CMTA H COOLING CAPACITY	CMTA H COOLING SENSIBLE CAPACITY		
RTU-1	EVIDENCE VEHICLE STORAGE	VALENT	VX-112-12.5K-0-J2	ROOFTOP DX COOLING ONLY	DOWNFLOW	121X87X66	2500	460 V	3	60 Hz	30 A	45	725	3075	1"	PLENUM	1	DIRECT	1668	2	75.0 / 80.7 / 83.6 / 75.6 / 68.7 / 64.5 / 72.3 / 60.4	77.0 / 69.8	54.8 / 54.7	146.1	71.6	11.7	

REMARKS:

1. PROVIDE ALL UNITS WITH 14" TALL VIBRATION ISOLATION ROOF CURBS.COORDINATE WITH ROOF CONSTRUCTION TYPE.
2. PROVIDE FACTORY MOUNTED HIGH-EFFICIENCY, VFD/INVERTER DUTY MOTORS ON EXHAUST AND SUPPLY FANS.
3. PROVIDE VFDS AND DISCONNECTS FOR ALL FAN MOTORS.
4. PROVIDE WITH FACTORY START-UP UTILIZING MANUFACTURER'S STANDARD FORMS. 2 YEARS PARTS AND LABOR WARRANTY ON ENTIRE UNIT FROM DATE OF SUBSTANTIAL COMPLETION.
5. PROVIDE WITH FOUR COMPLETE SETS OF MERV 8 FILTERS.
6. ENTIRE UNIT SHALL BE DOUBLE WALL CONSTRUCTION.
7. PROVIDE WITH STAINLESS STEEL IAQ CONDENSATE DRAIN PAN. ENTIRE PAN SHALL BE PITCHED TO OUTLET.
8. PROVIDE (1) INVERTER-DRIVEN/DIGITAL SCROLL AND (1) FIXED SCROLL COMPRESSOR, FOR MODULATING COOLING CAPABILITY.
9. PROVIDE UNIT WITH SINGLE POINT POWER.
10. PROVIDE UNIT WITH FULLY MODULATING HOT GAS REHEAT TO MAINTAIN A CONSTANT LEAVING AIR TEMPERATURE. CAPACITY OF THE HGR COIL SHALL BE CAPABLE OF REHEATING THE FULL AIRFLOW TO 72F DISCHARGE AIR TEMPERATURE.

SPLIT SYSTEM SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	FAN CFM	ESP ("WC)	VOLTS	PHASE	HZ	MCA	MOCP	COOLING				SYMBOL (OUTDOOR UNIT)	MANUFACTURER	MODEL	EFFICIENCY	NOMINAL TONS	REFRIGERANT	VOLTS	PHASE	HZ	MCA	MOCP	REMARKS
											TOTAL CAPACITY (MBTUH)	SENSIBLE CAPACITY (MBTUH)	EAT DB/WB	LAT DB/WB											
WMU-1	MITSUBISHI	MSY-GS12NA	WALL MOUNTED UNIT	350	N/A	208	1	60	1.0	15	12,000	N/A	N/A	N/A	CU-5	TRANE	MSY-GS12NA	23 SEER	1	R-410A	208	1	60	10	15	1,2,3,4,5,6,11,12

REMARKS:

1. PROVIDE WITH FACTORY START-UP UTILIZING MANUFACTURERS STANDARD FORMS
2. ENTIRE UNIT SHALL BE DOUBLE WALL CONSTRUCTION WITH 6" BASE RAIL.
3. SUPPLY STAINLESS STEEL IAQ CONDENSATE PAN. ENTIRE DRAIN SHALL BE PITCHED TO OUTLET.
4. REFER TO DRAWINGS FOR FULL UNIT CONFIGURATION.
5. THE TOTAL STATIC PRESSURE FOR THE FANS SHALL INCLUDE THE FOLLOWING. (A) LISTED ESP, (B) DESIGN FILTER ALLOWANCE, (C) PRESSURE DROPS THROUGH UNIT CONFIGURATION INCLUDING (COILS, DAMPERS, FILTERS, ETC.
6. PROVIDE HIGH EFFICIENCY ECM FAN MOTORS.
7. PROVICE WITH 2" MERV 13 PLEATED FILTERS.
8. PROVIDE UNIT WITH FULLY MODULATING HOT GAS REHEAT TO MAINTAIN A CONSTANT LEAVING AIR TEMPERATURE. CAPACITY OF THE HGR COIL SHALL BE CAPABLE OF REHEATING THE FULL AIRFLOW TO 72F DISCHARGE AIR TEMPERATURE.
9. PROVIDE WITH REVERSE CYCLE HEATING CAPABILITY
10. PROVIDE INDOOR UNIT WITH DOUBLE WALL INSULATED CASING.
11. ROUTE AND SIZE REFRIGERANTE PIPING PER MANUFACTURER REQUIREMENTS.
12. ACCEPTABLE MANUFACTURERS: DAIKIN, JCI/YORK, TRANE, CARRIER, AAON

VAV UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	INLET SIZE	PRIMARY AIR CFM		HEATING CFM	ΔP (IN. W.G.)	AUXILIARY ELECTRIC HEAT			NOTES
				MAX.	MIN.			KW	VOLTS/PH.	STEPS	
VAV1-1	Trane	VCEF	10	700	245	350	0.30	3.5	277/1	SCR	
VAV1-2	Trane	VCEF	12	1100	385	550	0.30	5.5	277/1	SCR	
VAV1-3	Trane	VCEF	8	550	195	275	0.30	3	277/1	SCR	
VAV1-4	Trane	VCEF	10	725	255	365	0.30	3.5	277/1	SCR	

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	TYPE	CFM / ESP	DRIVE / FAN RPM	FAN HP	ELECTRICAL			REMARKS
								VOLTS	PH	HZ	
EF-1A	GREENHECK	CUE-200-VG	EVIDENCE VEHICLE STORAGE	ROOF-MOUNTED UPBLAST	4000 / 0.2	DIRECT ECM / 787	1	120 V	1	60	
EF-1B	GREENHECK	CUE-200-VG	EVIDENCE VEHICLE STORAGE	ROOF-MOUNTED UPBLAST	4000 / 0.2	DIRECT ECM / 787	1	120 V	1	60	
EF-1C	GREENHECK	CUE-200-VG	EVIDENCE VEHICLE STORAGE	ROOF-MOUNTED UPBLAST	4000 / 0.2	DIRECT ECM / 787	1	120 V	1	60	
EF-1D	GREENHECK	CUE-200-VG	EVIDENCE VEHICLE STORAGE	ROOF-MOUNTED UPBLAST	4000 / 0.2	DIRECT ECM / 787	1	120 V	1	60	
EF-1E	GREENHECK	CUE-200-VG	EVIDENCE VEHICLE STORAGE	ROOF-MOUNTED UPBLAST	4000 / 0.2	DIRECT ECM / 787	1	120 V	1	60	
EF-2	GREENHECK	CUE-095-VG	SWAT VEHICLE	ROOF-MOUNTED UPBLAST	475 / 0.25	DIRECT ECM / 1131	1/6	120 V	1	60	
EF-3	GREENHECK	CUE-120-VG	EVIDENCE VEHICLE PROCESSING	ROOF-MOUNTED UPBLAST	750 / 0.25	DIRECT ECM / 841	1/4	120 V	1	60	
EF-4	GREENHECK	CUE-080-VG	CLEAN/REPAIR	ROOF-MOUNTED UPBLAST	150 / 0.5	DIRECT ECM / 1439	1/6	120 V	1	60	
EF-5	GREENHECK	GB-097	AMMO SUPPLY	ROOF-MOUNTED DOWNBLAST	150 / 0.5	BELT / 1236	1/6	120 V	1	60	1

REMARKS:

1. FAN SHALL HAVE SPARK RESISTANCE CLASS B.

CEILING FAN SCHEDULE

Mark	MANUF.	MODEL	TYPE	PHYSICAL SIZE (IN) / FAN DIAMETER (FT)	WEIGHT (LBS)	SERVICE	DRIVE / HP	FAN RPM (MAX)	ELECTRICAL DATA				REMARKS
									VOLT.	PH.	HZ	FLA	
HVLS-1A	GREENHECK	DS-6-14	HIGH VOLUME LOW SPEED	14' - 0"	177.00 lbf	VEHICLE STORAGE	DIRECT / 3/4	97	208 V	1	60	7.0 A	ALL
HVLS-1B	GREENHECK	DS-6-14	HIGH VOLUME LOW SPEED	14' - 0"	177.00 lbf	VEHICLE STORAGE	DIRECT / 3/4	97	208 V	1	60	7.0 A	ALL
HVLS-1C	GREENHECK	DS-6-14	HIGH VOLUME LOW SPEED	14' - 0"	177.00 lbf	VEHICLE STORAGE	DIRECT / 3/4	97	208 V	1	60	7.0 A	ALL

REMARKS:

1. MOUNT FAN TO STRUCURE. COORDINATE WITH MANUFACTURER PRIOR TO INSTALLATION.
2. COORDINATE LENGTH OF DOWNROD PRIOR TO PURCHASE TO AVOID STROBING.
3. PROVIDE WITH MANUFACTURER CONTROLLER WITH BACNET INTERFACE. PROVIDE WITH HIGH AND LOW MOUNTED TEMPERATURE SENSORS.
4. FAN DIAMETER LISTED MUST NOT CHANGE.
5. FAN SHALL BE PROVIDED WITH GEARLESS DIRECT DRIVE MOTOR.
6. MAINTAIN REQUIRED CLEARANCE FROM OBSTRUCTIONS PER MANUFACTURERER RECOMMENDATIONS.
7. COLOR TO BE SELECTED BY ARCHITECT.
8. PROVIDE FAN WITH SOLID STATE WALL MOUNTED SPEED CONTROLLER.

ENERGY RECOVERY VENTILATOR

SYMBOL	MANUFACTURER	MODEL	TYPE	NOMINAL SIZE LxWxH (IN.)	WEIGHT (LBS)	SUPPLY FAN			EXHAUST FAN		ELECTRICAL	
						CFM	DRIVE	MOTOR HP	CFM	MOTOR HP	V / PH / HZ	MCA / MOP

ENERGY RECOVERY VENTILATOR (CONT...)

SYMBOL	ENERGY RECOVERY									
	OUTSIDE AIR SIDE					EXHAUST AIR SIDE			EFFECTIVENESS	
		SUMMER (DB / WB) (F)		WINTER (DB / WB) (F)			EAT (DB / WB) (F)			
	CFM / APD	EAT	LAT	EAT	LAT	CFM / APD	SUMMER	WINTER	SUMMER	WINTER

REMARKS:

1. PROVIDE WITH DOUBLE WALL CONSTRUCTION.
2. PROVIDE WITH MERV 8 FILTERS IN BOTH AIRSTREAMS.
3. PROVIDE WITH FACTORY START-UP UTILIZING MANUFACTURER'S STANDARD FORMS.
4. PROVIDE WITH ECM MOTORS.
5. PROVIDE WITH INTEGRAL DISCONNECT.
6. PROVIDE MOTORIZED DAMPERS IN BOTH OUTSIDE AND EXHAUST AIRSTREAMS

ELECTRIC DUCT HEATER SCHEDULE

Mark	SERVES	AIR FLOW (CFM)	ELECTRICAL			DUCT SIZE	BASIS OF DESIGN		NOTES
			Kw	STAGES	VOLTS/PH.		MANUFACTURER	MODEL	

NOTES:
1. FINNED TUBULAR SLIP IN STYLE DUCT HEATER.
2. COORDINATE DUCT SIZES WITH DUCT FABRICATION SHOP DRAWINGS PRIOR TO ORDERING.
3. PROVIDE WITH VERNIER STYLE SCR HEATING CONTROLLER.
4. HEATER SIZES BASED ON 25 DEGREE ENTERING / 55 DEGREE LEAVING AIR TEMPS.

FILE NAME: Autodesk Docs://_1007657.00 - CORE - City of Riviera Beach D/RBPD_Evidence and Firing Range_MEPF_R24.rvt
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DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

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PROJECT STATUS

90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION

1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

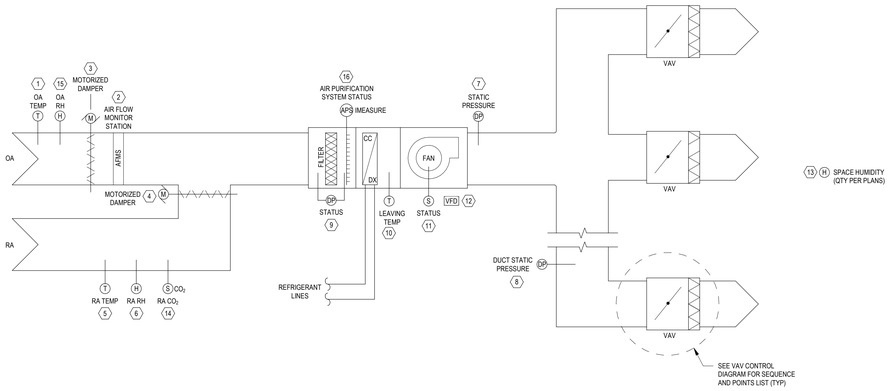
1007657.00

SHEET TITLE

SCHEDULES - HVAC

SHEET NUMBER

M6.01E



SUPPLY FAN CONTROL:

THE FAN CAN BE STARTED BASED ON ANY OF THE FOLLOWING CONDITIONS:

1. WHEN THE SYSTEM IS PUT INTO WARM UP / COOL DOWN MODE (THRU THE EMS SYSTEM).
2. WHEN THE SYSTEM IS PUT IN THE OCCUPIED MODE (THRU THE EMS SYSTEM).
3. WHEN THE SYSTEM IS IN THE UNOCCUPIED MODE WITH A CALL FOR TEMPERATURE OR DEHUMIDIFICATION OVERRIDE (THRU THE EMS SYSTEM).
4. WHEN THE SYSTEM IS MANUALLY PUT IN AN OVERRIDE MODE (THRU THE EMS SYSTEM).
5. IF THE HAND-OFF-AUTO SWITCH LOCATED ON THE VFD IS PUT IN THE HAND POSITION ONLY THE FAN STARTS.

WHEN THE FAN IS INDEXED TO START VIA THE OPERATIONAL MODE SELECTION, THE VARIABLE FREQUENCY DRIVE SHALL INCREASE THE SUPPLY FAN(S) SPEED SLOWLY OVER A PERIOD OF 1 MINUTE (ADJ.) TO ACHIEVE THE DUCT STATIC PRESSURE SETPOINT. THE VARIABLE FREQUENCY DRIVE SHALL CONTINUE TO MODULATE THE FAN SPEED AS REQUIRED TO MAINTAIN THE CURRENT STATIC PRESSURE SETPOINT. THE ASSOCIATED EXHAUST FANS ARE STARTED, OUTDOOR AIR DAMPERS WILL MODULATE OPEN (SEE BELOW) AND THE UNIT CONTROL LOOPS ARE ENABLED.

STATIC PRESSURE CONTROL:

WHEN THE SUPPLY FAN PROOF OF FLOW HAS BEEN DETERMINED THE SUPPLY FAN STATIC LOOP IS ALLOWED TO CONTROL. THE SUPPLY FAN SPEED IS RAMPED UP ON FAN START-UP AND THEN MODULATED TO MAINTAIN DISCHARGE STATIC PRESSURE SETPOINT DEPENDING IF IN THE OCCUPIED MODE OR NOT.

FAN STATIC PRESSURE SETPOINT RESET:

THE BCS SYSTEM SHALL CONTINUOUSLY MONITOR THE DAMPER POSITION AND AIRFLOWS OF ALL VAV TERMINALS SERVED BY THE ROOFTOP UNIT. THE SYSTEM SHALL EVALUATE THE DUCT STATIC PRESSURE CONDITIONS EVERY 10 MINUTES (ADJ.)

THE SYSTEM SHALL HAVE A MINIMUM AND MAXIMUM SETTING FOR THE SUPPLY AIR STATIC SETPOINT TO BE ADJUSTABLE AND DETERMINED DURING TEST AND BALANCE. UPON FAN INITIAL STARTUP THE MINIMUM SETPOINT SHALL BE THE STARTING POINT FOR FAN CONTROL.

IN THE EVENT THAT ALL VAV TERMINALS ARE SATISFIED (I.E. ALL VAV TERMINALS ARE AT LESS THAN 100% MAXIMUM OPEN POSITION AND ANY THAT ARE AT 100% MAXIMUM POSITION ARE DELIVERING AT LEAST 95% (ADJ.) OF THE SUPPLY AIR FLOW MAXIMUM SETPOINT) THE DUCT STATIC PRESSURE SETPOINT SHALL DECREASE BY 0.1" W.C.

IN THE EVENT THAT ANY VAV TERMINAL IS NOT SATISFIED WITH VALVE AT THE 100% MAXIMUM OPEN POSITION AND IS DELIVERING LESS THAN 95% (ADJ.) OF THE SUPPLY AIR FLOW MAXIMUM SETPOINT, THE DUCT STATIC PRESSURE SETPOINT SHALL INCREASE BY 0.1" W.C.

THE ABILITY SHALL BE PROVIDED TO BLACKLIST ANY PROBLEM ZONE THAT WILL NOT BE CONSIDERED IN THE STATIC PRESSURE SETPOINT ADJUSTMENT.

THE RTU GRAPHICS SCREEN SHALL INCLUDE THE CURRENT STATIC PRESSURE SETPOINT AND CURRENT STATIC PRESSURE READING AS WELL AS IDENTIFY ANY ZONES THAT ARE NOT SATISFIED IN TERMS OF AIRFLOW.

EACH SYSTEM SHALL HAVE A MINIMUM TOTAL SYSTEM SUPPLY AIRFLOW SETPOINT TO AVOID SURGE AS RECOMMENDED BY THE MANUFACTURER. IN THE EVENT THAT THE SYSTEM TOTAL FLOW DROPS TO WITHIN 10% (ADJ.) OF THE MINIMUM AIRFLOW SETPOINT, THE SYSTEM SHALL RESET THE STATIC PRESSURE SETPOINT TO THE MINIMUM SETTING. UPON A CONTINUED DROP IN TOTAL SYSTEM FLOW BELOW THE MINIMUM SETPOINT, THE VAV TERMINAL MINIMUM FLOW OVERRIDE SAFETY SHALL ENABLE.

RTU MAIN COOLING COIL CONTROL:

WHEN COOLING IS ENABLED, THE COMPRESSOR(S) ARE STAGED TO MAINTAIN THE UNITS DISCHARGE AIR TEMPERATURE SETPOINT (ADJ.) THE DDC SHALL CONTINUOUSLY MONITOR THE ZONE SPACE TEMPERATURE, RETURN AIR HUMIDITY AND ZONE SPACE HUMIDITY (WHERE APPLICABLE). THE SYSTEM SHALL EVALUATE THE SUPPLY AIR LEAVING CONDITIONS EVERY 5 MINUTES (ADJ.).

IF THERE ARE NO RELATIVE HUMIDITY ALARMS IN EXCESS OF THE HUMIDITY ALARM SETPOINT (ADJ.) AND ALL ZONES SPACE TEMPERATURES ARE WITHIN 1/2F (ADJ.) ABOVE THE SPACE TEMPERATURE SETPOINT, THE SUPPLY AIR LEAVING TEMPERATURE SETPOINT SHALL BE DECREASED BY 1F. LEAVING AIR TEMPERATURE SHALL NOT EXCEED 60 DEGF.

IF THERE ARE ANY RELATIVE HUMIDITY ALARMS IN EXCESS OF THE HUMIDITY ALARM SETPOINT (ADJ.) OR ANY ZONE SPACE TEMPERATURES THAT ARE MORE THAN 1/2F (ADJ.) ABOVE THE SPACE TEMPERATURE SETPOINT, THE SUPPLY AIR LEAVING TEMPERATURE SETPOINT SHALL BE DECREASED BY 1F.

THE ABILITY SHALL BE PROVIDED TO BLACKLIST ANY PROBLEM ZONE THAT WILL NOT BE CONSIDERED IN THE STATIC PRESSURE SETPOINT ADJUSTMENT.

AIR PURIFICATION CONTROL:

THE AIR PURIFICATION SYSTEM SHALL BE ENABLED WHENEVER THE SUPPLY FAN IS ENABLED.

OUTSIDE AIR OCCUPIED - UNOCCUPIED CONTROL:

WHEN ENABLED, THE OUTSIDE AIR AND RETURN AIR DAMPERS SHALL MODULATE TO MAINTAIN THE OUTDOOR AIR FLOW SETPOINT PER THE FOLLOWING: THE RETURN DAMPER SHALL REMAIN FULLY OPEN WHILE THE OUTSIDE AIR DAMPER IS MODULATED TO MAINTAIN THE SETPOINT. IN THE EVENT THAT THE OUTSIDE AIR DAMPER IS FULLY OPEN AND THE OUTSIDE AIR IS BELOW THE SETPOINT, THEN THE RETURN AIR DAMPER SHALL MODULATE CLOSED AS REQUIRED TO MAINTAIN THE OUTSIDE AIR FLOW SETPOINT. THE SEQUENCE WILL OCCUR IN REVERSE ORDER AS THE RETURN AIR MODULATES OPEN. AT NO TIME ARE THE OUTSIDE AIR DAMPER AND RETURN DAMPER TO MODULATE AT THE SAME TIME. A RETURN AIR MINIMUM DAMPER POSITION OF 30% (ADJ.) SHALL BE MAINTAINED AND THE RETURN AIR DAMPER SHALL NEVER BE ABLE TO GO FULLY CLOSED.

RELATIVE HUMIDITY OVERRIDE CONTROL:

IF THE SPACE RELATIVE HUMIDITY RISES TO ABOVE 65% (ADJ.) THE LEAVING AIR DISCHARGE SETPOINT IS RESET DOWN TO THE DESIGNED DISCHARGE TEMPERATURE. IF THE SYSTEM IS IN UNOCCUPIED MODE, THE FAN AND COOLING COIL LEAVING AIR TEMPERATURE CONTROL SEQUENCES SHALL BE INITIATED UNTIL THE RELATIVE HUMIDITY LEVELS DROP BELOW THE SETPOINT. OUTDOOR AIR TO REMAIN DISABLED.

UNOCCUPIED MODE LOCAL TEMPERATURE OVERRIDE:

EACH SPACE TEMPERATURE SENSOR SHALL BE PROVIDED WITH A LOCAL OVERRIDE BUTTON. UPON ACTIVATION OF THE LOCAL OVERRIDE, THE UNIT SERVING THAT ZONE SHALL BE ENERGIZED AND THE STANDARD COOLING COIL, FAN OPERATION SHALL BE INITIATED. THE VAVS SERVING THE NON-OVERRIDE ZONES SHALL OPERATE AT THEIR SCHEDULED MINIMUM AIRFLOWS TO MAINTAIN THEIR UNOCCUPIED SETPOINTS. THE VAV SERVING THE OVERRIDE ZONE SHALL OPERATE IN OCCUPIED MODE WITH OCCUPIED SETPOINTS FOR HEATING AND COOLING. OVERRIDE DURATION SHALL BE FOR A PERIOD OF 1 HOUR (ADJ.) AT WHICH TIME ALL COMPONENTS WILL RESUME NORMAL UNOCCUPIED STATE. OUTSIDE AIR AND EXHAUST/RELIEF SYSTEMS SHALL REMAIN IN UNOCCUPIED MODE UNLESS CO2 LEVELS FROM ANY SENSOR ASSOCIATED WITH THE OVERRIDDEN SYSTEM RISES ABOVE THE SETPOINT. UPON A RISE IN CO2 ABOVE THE SETPOINT, THE OCCUPIED OUTSIDE AIR, RELIEF DAMPER AND EXHAUST FAN SEQUENCES FOR EQUIPMENT SERVING THE SAME AREA/SYSTEMS SHALL BE INITIATED UNTIL THE CO2 LEVELS DROP 10% (ADJ.) BELOW THE CO2 LEVEL SETPOINT.

FIRE PROTECTION:

DUCT SMOKE DETECTORS SHALL BE LOCATED IN THE SUPPLY AND RETURN DUCTS IN ACCORDANCE WITH NFPA 72. UPON SENSING OF SMOKE A DETECTOR SHALL SHUT "OFF" THE UNIT FAN(S) AND THE ASSOCIATED EXHAUST FAN(S). THE SMOKE DETECTORS SHALL BE MANUALLY RESET FROM THE FIRE ALARM PANEL.

HIGH STATIC ALARM:

AN ALARM SHALL BE GENERATED IN THE EVENT THE HIGH DUCT STATIC PRESSURE SWITCH IS TRIPPED (WITH MANUAL RESET).

SAFETIES:

THE FOLLOWING SAFETIES SHALL SHUT DOWN THE UNIT UPON ALARM CONDITION:

1. A FIRE ALARM CONDITION.
2. THE HIGH DISCHARGE STATIC PRESSURE SWITCH TRIPS (W/ MANUAL RESET) AND AN ALARM IS GENERATED.

AIR PURIFICATION FAILURE:

UPON AN AIR PURIFICATION FAILURE, AN ALARM SHALL BE GENERATED AT THE DDC FRONT END SYSTEM.

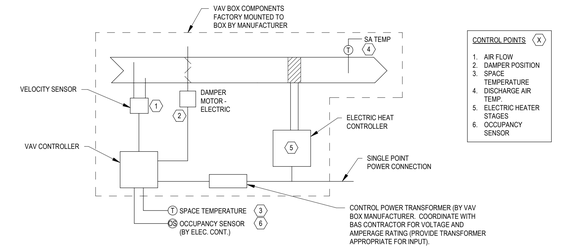
SHUTDOWN:

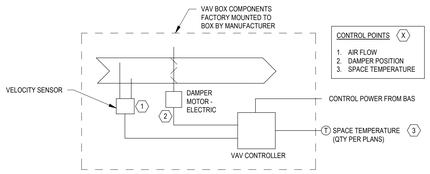
THE FOLLOWING OCCURS WHEN THE RTU FAN(S) IS STOPPED EITHER BY SAFETIES AS NOTED ABOVE OR IF IN ITS UNOCCUPIED MODE:

1. THE OA DAMPER CLOSES AND THE RETURN AIR DAMPER OPENS.
2. THE COMPRESSOR(S) ARE DE-ENERGIZED.
3. THE INTERLOCKED EXHAUST FANS PER ITS SCHEDULE ARE STOPPED.

IF THE SUPPLY STATIC PRESSURE FAILS TO INCREASE ABOVE A MINIMUM SETPOINT, THE DDC SYSTEM USES THIS TO CONFIRM THE FAN IS IN THE DESIRED STATE AND GENERATES AN ALARM IF THE STATUS DEVIATES FROM THE DDC START/STOP CONTROL.

1 AIR HANDLING UNIT SERVING VAVS
CONTROL SCHEMATIC
NTS





VAV SEQUENCE:

THE BAS SHALL CONTINUOUSLY MONITOR THE SPACE TEMPERATURES OF SPACES SERVED WITH TEMPERATURE SENSORS.

THE VAV TERMINAL SHALL MODULATE AIRFLOW AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE COOLING SETPOINT(S). THE SPACE SETPOINTS (ADJ.) ARE AS FOLLOWS IN PRIORITY OF THE ORDER LISTED:

1. SYSTEMS - 75°F
2. ELECTRICAL - 85°F
3. MECHANICAL - 78°F

IN THE EVENT ANY ONE SPACE TEMPERATURE DROPS BELOW 68°F (ADJ.) THE VAV CONTROL SHALL BE OVERRIDDEN TO MAINTAIN THE WORST CASE MINIMUM TEMPERATURE.

2 VARIABLE AIR VOLUME SYSTEM W/
ELECTRIC HEAT
NTS

VAV SEQUENCE:

EACH VAV SHALL BE PROVIDED WITH INDEPENDENT SETPOINTS FOR THE FOLLOWING CONDITIONS:

SYSTEM MODE	ZONE MODE	COOLING TEMP	HEATING TEMP	MINIMUM AIRFLOW
UNOCCUPIED	UNOCCUPIED	80	64	TERMINAL RECOMMENDED MINIMUM FLOW
	OCCUPIED	75	69	TERMINAL RECOMMENDED MINIMUM FLOW
OCCUPIED & COOL DOWN/WARMUP	UNOCCUPIED	77	68	TERMINAL RECOMMENDED MINIMUM FLOW
	OCCUPIED	75	69	AS SCHEDULED

WHEN THE ASSOCIATED AIR HANDLING UNIT IS ENABLED THE VAV TERMINAL SHALL OPERATE PER THE FOLLOWING:

UPON RISE IN SPACE TEMPERATURE ABOVE THE SPACE COOLING SETPOINT, AIR VALVE SHALL OPEN TO INCREASE SUPPLY AIR FLOW. UPON FALL IN SPACE TEMPERATURE THE REVERSE SHALL OCCUR UNTIL THE AIR VALVE REACHES THE MINIMUM AIRFLOW SETPOINT. IF SPACE TEMPERATURE CONTINUES TO FALL BELOW THE SPACE HEATING SETPOINT THE ELECTRIC HEAT SHALL STAGE ON TO RAISE SUPPLY AIR TEMPERATURE AS REQUIRED TO MAINTAIN THE SPACE HEATING SETPOINT.

THE SYSTEM OCCUPIED / UNOCCUPIED MODE SHALL BE DETERMINED BY THE MODE IN WHICH THE ASSOCIATED AHU IS OPERATING IN.

FOR VAV'S SERVING LARGE ZONES WITH OCCUPANCY SENSORS SUCH AS CLASSROOMS AND CONFERENCE ROOMS, THE ZONE OCCUPIED / UNOCCUPIED MODE SHALL BE DETERMINED BY THE SPACE MOUNTED OCCUPANCY SENSOR. FOR ALL OTHER SPACES THE ZONE SETTINGS WOULD MATCH THE SYSTEM SETTINGS.

THE ZONE OCCUPIED / UNOCCUPIED MINIMUM AIRFLOW SETPOINTS SHALL BE DETERMINED BY SIGNAL FROM OCCUPANCY SENSOR (BY ELECTRICAL CONTRACTOR). COORDINATE AND PROVIDE ALL REQUIRED CONTROL INTERFACE, RELAYS, WIRING FOR INTERCONNECTION OF OCCUPANCY SENSOR WITH LIGHTING CONTROL / OCCUPANCY SENSOR MANUFACTURER.

SYSTEM MINIMUM FLOW VAV OVERRIDE: WHEN COMMANDED FROM THE AHU CONTROLLER, THE VAV MINIMUM SETPOINTS SHALL BE OVERRIDDEN AS OUTLINED IN THE VAV AIR HANDLING UNIT CONTROL SEQUENCE.

3 VARIABLE AIR VOLUME SYSTEM -
COOLING ONLY
NTS

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/RBPD_Evidence and Firing Range_MEPF_R24.rvt
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DRAWING HISTORY

No	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

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PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
CONTROLS - HVAC

SHEET NUMBER
M7.01E

COMMISSIONING NOTES:

C408.3.1 LIGHTING SYSTEM FUNCTIONAL TESTING:
PRIOR TO PASSING FINAL INSPECTION, THE REGISTERED DESIGN PROFESSIONAL SHALL PROVIDE EVIDENCE THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS. FUNCTIONAL TESTING SHALL BE IN ACCORDANCE WITH SECTIONS C408.3.1.1 THROUGH C408.3.1.3 FOR THE APPLICABLE CONTROL TYPE. A SUMMARY OF THE TEST PROCEDURES INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

C408.3.1.1 OCCUPANT SENSOR CONTROLS:
CONFIRM THAT THE PLACEMENT, SENSITIVITY, AND TIME-OUT ADJUSTMENTS FOR OCCUPANT SENSORS YIELD ACCEPTABLE PERFORMANCE.

C408.3.1.2 TIME SWITCH CONTROLS:
CONFIRM THAT THE TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF.

C408.3.1.3 DAYLIGHT RESPONSIVE CONTROLS:
CONFIRM THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR PHOTOSENSOR CONTROLS REDUCE ELECTRIC LIGHT BASED ON THE AMOUNT OF USABLE DAYLIGHT IN THE SPACE AS SPECIFIED.

C408.3.2 DOCUMENTATION REQUIREMENTS:
THE CONSTRUCTION DOCUMENTS SHALL SPECIFY THAT THE DOCUMENTS DESCRIBED IN THIS SECTION BE PROVIDED TO THE BUILDING OWNER OR THE OWNER'S AUTHORIZED AGENT WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

C408.3.2.1 DRAWINGS:
CONSTRUCTION DOCUMENTS SHALL INCLUDE THE LOCATION AND CATALOGUE NUMBER OF EACH PIECE OF EQUIPMENT.

C408.3.2.2 MANUALS:
AN OPERATING AND MAINTENANCE MANUAL SHALL BE PROVIDED AND INCLUDE THE FOLLOWING:
1. NAME AND ADDRESS OF NOT LESS THAN ONE SERVICE AGENCY FOR INSTALLED EQUIPMENT.
2. A NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING RECOMMENDED SETPOINTS.
3. SUBMITTAL DATA INDICATING ALL SELECTED OPTIONS FOR EACH PIECE OF LIGHTING EQUIPMENT AND LIGHTING CONTROLS.
4. OPERATION AND MAINTENANCE MANUALS FOR EACH PIECE OF LIGHTING EQUIPMENT. REQUIRED ROUTINE MAINTENANCE ACTIONS, CLEANING AND RECOMMENDED RELAMPING SHALL BE CLEARLY IDENTIFIED.
5. A SCHEDULE FOR INSPECTING AND RECALIBRATING ALL LIGHTING CONTROLS.

C408.3.2.3 REPORT:
A REPORT OF TEST RESULTS SHALL BE PROVIDED AND INCLUDE THE FOLLOWING:
1. RESULTS OF FUNCTIONAL PERFORMANCE TESTS.
2. DISPOSITION OF DEFICIENCIES FOUND DURING TESTING,INCLUDING DETAILS OF CORRECTIVE MEASURES USED OR PROPOSED.

COMPLETION REQUIREMENTS:

RECORD DRAWINGS:
PER C405.5.4.1 - CONTRACTOR SHALL PROVIDE WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION TO THE BUILDING OWNER INCLUDING:
1. A SINGLE LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM AND
2. FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.

MANUALS:
PER C405.5.4.2, OPERATION MANUALS & MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNER. THE MANUALS SHALL INCLUDE AT A MINIMUM THE FOLLOWING:
1. SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
2. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
3. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.

ELECTRICAL SYMBOLS LEGEND

NOTE: THESE ARE STANDARD SYMBOLS AND ALL MAY NOT APPEAR ON THE PROJECT DRAWINGS.

LIGHTING

NOTE:
UPPER CASE LETTER INDICATES FIXTURE TYPE, SEE LIGHTING FIXTURE SCHEDULE AND DRAWINGS. LOWER CASE LETTER INDICATES SWITCH CIRCUIT.

- 2X4 LUMINAIRE - CEILING MOUNTED
- 2X4 LUMINAIRE - CEILING MOUNTED, LIFE SAFETY BRANCH
- 2X2 LUMINAIRE - CEILING MOUNTED
- INDUSTRIAL STRIP FIXTURE
- INDUSTRIAL STRIP FIXTURE - EMERGENCY POWER (VERIFY BRANCH OF ESSENTIAL ELECTRICAL SYSTEM WITH DRAWINGS)
- LINEAR FIXTURE - WALL MOUNTED
- LINEAR FIXTURE - WALL MOUNTED, LIFE SAFETY BRANCH
- DOWNLIGHT LUMINAIRE - RECESSED
- DOWNLIGHT FIXTURE - RECESSED, EMERGENCY POWER (VERIFY BRANCH OF ESSENTIAL ELECTRICAL SYSTEM WITH DRAWINGS)
- DOWNLIGHT LUMINAIRE - SURFACE MOUNTED
- DOWNLIGHT LUMINAIRE - SURFACE MOUNTED, EMERGENCY POWER (VERIFY BRANCH OF ESSENTIAL ELECTRICAL SYSTEM WITH DRAWINGS)
- WALL WASH LUMINAIRE - RECESSED
- WALL MOUNTED LUMINAIRE
- WALL MOUNTED LUMINAIRE, EMERGENCY POWER (VERIFY BRANCH OF ESSENTIAL ELECTRICAL SYSTEM WITH DRAWINGS)
- FIXTURE - PENDANT MOUNTED
- UNIVERSAL MOUNTING EXIT LIGHTS, SINGLE AND DOUBLE FACED, ARROWS AS SHOWN ON FLOOR PLANS
- WALL MOUNTED EXIT LIGHTS, SINGLE FACED
- END MOUNTED EXIT LIGHTS, SINGLE AND DOUBLE FACED, ARROWS AS SHOWN ON FLOOR PLANS
- EMERGENCY BATTERY PACK, HEADS AS INDICATED
- REMOTE EMERGENCY LIGHT

SWITCHES

- $_{a,b}$ LOWER CASE SUBSCRIPTS INDICATE OUTLET CONTROLLED
- $_{a}$ SINGLE POLE SWITCH (UNLESS NOTED BY SUBSCRIPT)
  (OS) OCCUPANCY SENSOR TYPE SWITCH
  (OR) LOW VOLTAGE LIGHTING CONTROL OVERRIDE SWITCH
  (TS) DIGITAL TIMMING SWITCH - 4 HOURS MAX OVERRIDE.
  (LVD) LOW VOLTAGE DIMMER SWITCH WITH ON/OFF/RAISE/LOWER BUTTONS
  (OSD) DIMMABLE OCCUPANCY SENSOR TYPE SWITCH WITH ON/OFF/RAISE/LOWER BUTTONS
  (T) SINGLE PHASE MOTOR STARTING SWITCH
- OS OCCUPANCY/VACANCY SENSOR, DUAL TECHNOLOGY, LOW VOLTAGE WITH POWER PACKS. SENSOR SHALL CONTAIN AN AUXILIARY RELAY FOR HVAC CONTROLS EMS INTERFACE.
- PE PHOTOCELL

CONDUIT AND WIRE

- CONDUIT CONCEALED IN WALLS OR ABOVE CEILINGS
- CONDUIT CONCEALED UNDERGROUND OR IN SLAB
- CONDUIT HOMERUN - EC SHALL CONSIDER CIRCUIT DISTANCES AND AMOUNT OF CONDUCTORS IN A CONDUIT.

RECEPTACLES

NOTES:
1. ALL RECEPTACLES SHALL BE RATED 120V, 20A, U.N.O.
2. ALL 120V, 20A, RECEPTACLES LOCATED IN DAMP AND/OR WET LOCATIONS SHALL BE LISTED "WEATHER-RESISTANT" (TYPE WR).

- DUPLEX RECEPTACLE: MOUNTED 18" AFF UNLESS NOTED OTHERWISE.
  * (G) DUPLEX GFCI RECEPTACLE
  (IG) DUPLEX ISOLATED GROUND RECEPTACLE.
  (USB) RECEPTACLE; 2-POWER, 2-USB
  (WPG) DUPLEX GFCI WEATHER RESISTANT RECEPTACLE, WITH WHILE-IN-USE WEATHERPROOF COVER
  (EWC) ELECTRIC WATER COOLER, COORDINATE LOCATION WITH PLUMBING INSTALLER. LOCATE GFCI RECEPTACLE CENTERED UP UNDER COOLER.
- DUPLEX RECEPTACLE, MOUNT 4" ABOVE COUNTER OR BACKSPLASH. MAXIMUM 48" TO CENTER.
- QUADRUPLEX RECEPTACLE IN TWO GANG BOX COVER.
- DUPLEX RECEPTACLE IN FLOOR BOX.
- QUADRUPLEX RECEPTACLE, MOUNT 4" ABOVE COUNTER OR BACKSPLASH. MAXIMUM 48" TO CENTER.
- DUPLEX RECEPTACLE FLUSH MOUNTED IN CEILING
- SIMPLEX RECEPTACLE
- COMBINATION DATA/TELEPHONE AND DUPLEX RECEPTACLE, MOUNTED IN CAST IRON OR STAINLESS STEEL FLOOR BOX, REFER TO POWER/SYSTEMS FLOOR PLAN FOR EXACT TYPE FLOOR BOX
- 5-20R SPECIAL OUTLET, SUBSCRIPT INDICATES NEMA CONFIGURATION NUMBER

SITE

- T POWER COMPANY TRANSFORMER - UNLESS NOTED
- PARKING LOT OR ROADWAY FIXTURE
- WALKWAY BOLLARD
- FLOODLIGHT
- UTILITY POLE
- G GENERATOR - SEE RISER DIAGRAM

POWER CONNECTIONS

- J JUNCTION BOX SIZED PER N.E.C. UNLESS NOTED CEILING MOUNTED
- J JUNCTION BOX
- C ELECTRICAL CONNECTOR
- PB WALL MOUNTED PUSH BUTTON STATION MOUNT AT 7'-0" AFG FOR OUTDOOR INSTALLATIONS AND 4'-0" AFF FOR INDOOR INSTALLATIONS.
- SH WALL MOUNTED SHUNT TRIP STATION MOUNT AT 7'-0" AFG FOR OUTDOOR INSTALLATIONS AND 4'-0" AFF FOR INDOOR INSTALLATIONS
- TC TIME CLOCK
- EPO WALL MOUNTED EMERGENCY POWER OFF STATION MOUNT AT 7'-0" AFG INSTALLATIONS
- EWH ELECTRIC WATER HEATER
- IWH INSTANTANEOUS WATER HEATER
- EF MOTOR CONNECTION, MARK NUMBER WILL IDENTIFY EQUIPMENT, EF, AHU, CU, ETC. SEE MOTOR CONNECTION SCHEDULE.
- 30/2 NON FUSIBLE HEAVY DUTY SAFETY SWITCH, SIZE AND NUMBER OF POLES ARE INDICATED.
- 30/2 / 25 / 3R FUSIBLE HEAVY DUTY SAFETY SWITCH, SIZE AND NUMBER OF POLES ARE INDICATED.
  ENCLOSURE NEMA RATING
  DISCONNECT SIZE #POLES
  FUSE SIZE
- MANUAL MOTOR STARTER
- MAGNETIC STARTER.
  * (VFD) PROVIDE WITH VARIABLE FREQUENCY DRIVE CONTROLLER COMPATIBLE WITH VARIABLE FREQUENCY DRIVE.
- COMBINATION MAGNETIC STARTER WITH A CIRCUIT BREAKER.
  * (VFD) PROVIDE WITH VARIABLE FREQUENCY DRIVE CONTROLLER COMPATIBLE WITH VARIABLE FREQUENCY DRIVE.
- COMBINATION MAGNETIC STARTER WITH FUSIBLE HEAVY DUTY SAFETY SWITCH.
  * (VFD) PROVIDE WITH VARIABLE FREQUENCY DRIVE CONTROLLER COMPATIBLE WITH VARIABLE FREQUENCY DRIVE.
- ENCLOSED CIRCUIT BREAKER.
- ATS AUTOMATIC TRANSFER SWITCH - SEE RISER DIAGRAM
- PANELBOARD, LOW VOLTAGE (120/208V) - SEE PANELBOARD SCHEDULES AND RISER DIAGRAM
- PANELBOARD, HIGH VOLTAGE (277/480V) - SEE PANELBOARD SCHEDULES AND RISER DIAGRAM
- DISTRIBUTION PANEL, SEE RISER DIAGRAM
- M POWER COMPANY METERING.
- T DRY-TYPE TRANSFORMER, SEE RISER. FOR CHARACTERISTICS
- SPD SURGE PROTECTION DEVICE

FIRE ALARM SYSTEM

NOTE:
(D) DENOTES DUCT MOUNTED
(C) DENOTES CEILING MOUNTED
(F) DENOTES FLUSH WALL MOUNTED
(UF) DENOTES UNDER FLOOR ACCESS
(WP) DENOTES WEATHERPROTECTED

- BR BEAM DETECTOR, RECEIVER
- BT BEAM DETECTOR, TRANSMITTER
- FD THERMAL DETECTOR, FIXED + RATE-OF-RISE
- FX THERMAL DETECTOR, FIXED TEMP.
- ID SMOKE DETECTOR - IONIZATION
- IR FLAME DETECTOR - INFRARED
- SA SMOKE ALARM - NON-SYSTEM, 120V (PROVIDE WITH BATTERY BACK-UP)
- SD SMOKE DETECTOR - PHOTO
- UV FLAME DETECTOR - UV
- CO CARBON MONOXIDE DETECTOR
- F MANUAL PULL STATION
- H MAGNETIC DOOR RELEASE
- CE CONTROL ELEMENT
- FS FLOW SWITCH (FIRE SPRINKLER)
- KB KNOX BOX, MOUNTED AT 7'-0" AFG OR @ HEIGHT INDICATED ON FLOOR PLAN.
- TS TAMPER SWITCH (VALVE SUPERVISION)
- RR CONTROL RELAY
- RT REMOTE TEST INDICATOR
- FSD FIRE SMOKE DAMPER
- SDH DOOR HOLDER/CLOSER WITH INTEGRAL SMOKE DETECTOR
- S FIRE SPRINKLER SOLENOID VALVE
- G GAS SOLENOID VALVE
- * F SIGNALING APPLIANCE - HORN
  * (V) WITH VISUAL SIGNAL (STROBE, 75CD UNLESS NOTED) - MOUNTED 80" A.F.F. TO BOTTOM OF STROBE
- * SF SIGNALING APPLIANCE - SPEAKER
  * (V) WITH VISUAL SIGNAL (STROBE, 75CD UNLESS NOTED) - MOUNTED 80" A.F.F. TO BOTTOM OF STROBE
- * SIGNALING APPLIANCE - STROBE (75CD UNLESS NOTED) - MOUNTED 80" A.F.F. TO BOTTOM OF STROBE
- SIGNALING APPLIANCE - CEILING MOUNTED HORN
  * (V) WITH VISUAL SIGNAL (STROBE, 75CD UNLESS NOTED)
- SIGNALING APPLIANCE - CEILING MOUNTED SPEAKER
  * (V) WITH VISUAL SIGNAL (STROBE, 75CD UNLESS NOTED)
- SIGNALING APPLIANCE - CEILING MOUNTED STROBE ONLY (STROBE, 75CD UNLESS NOTED)
- F FIRE ALARM SYSTEM RACEWAY
- ZIM ZONE INTERFACE DEVICE
- FAAP FIRE ALARM ANNUNCIATOR PANEL
- FACP FIRE ALARM CONTROL PANEL
- FZCP FIRE ALARM ZONE PANEL
- FATC FIRE ALARM TERMINAL CABINET
- FATP FIREMAN'S TELEPHONE PANEL

ABBREVIATIONS:

A	AMPERES
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AL	ALUMINUM
ANNUN	ANNUNCIATOR
ARCH	ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BLDG	BUILDING
C	CONDUIT
CAT	CATALOG
CKT	CIRCUIT
CU	COPPER
CB	CIRCUIT BREAKER
C/T	CURRENT TRANSFORMERS
DWG	DELTA DRAWING
FT	FEET
G	GROUND
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPT
IG	ISOLATED GROUND
KVA	KILOVOLT-AMPERES
KW	KILOWATTS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
NEC	NATIONAL ELECTRICAL CODE
NC	NORMALLY CLOSED
NL	NIGHT LIGHT CIRCUIT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NIC	NOT IN CONTACT
Ø	PHASE
POS	POINT OF SCALE
PVC	POLYVINYL CHLORIDE
P/T	POTENTIAL TRANSFORMER
R	RECESSED
SCR	SHORT CIRCUIT RATING
SURF	SURFACE
TEL	TELEPHONE
TYP	TYPICAL
UG	UNDERGROUND
UNIV	UNIVERSAL
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
W	WATTS
WP	WEATHERPROOF
WPG	WEATHERPROOF WITH GROUND FAULT INTERRUPT
XFMR	TRANSFORMER
Y	WYE

GENERAL NOTES:

1. PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR A COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEM WHETHER INDICATED OR NOT.
2. CODES AND STANDARDS: ALL ELECTRICAL WORK SHALL BE IN STRICT COMPLIANCE WITH OSHA REQUIREMENTS, THE NATIONAL ELECTRICAL CODE, THE FLORIDA BUILDING CODE, AND POWER COMPANY REQUIREMENTS AND STANDARDS. ALL MATERIALS SHALL BE NEW UNLESS SPECIFIED OTHERWISE AND FREE FROM DEFECTS, AND SHALL BEAR THE UNDERWRITER'S LABEL FOR ITS INTENDED USE AND PURPOSE.
3. CONTRACTOR SHALL THOROUGHLY INVESTIGATE SITE BEFORE BIDDING. NO CHANGES WILL BE ALLOWED IN CONTRACT PRICE FOR WORK REQUIRED TO COMPLY WITH EXISTING CONDITIONS.
4. WORKMANSHIP SHALL MEET N.E.C.A. GUIDELINES AND NEC 110.12.
5. IF, THROUGH ERRORS OR OMISSIONS, THE INTENT OF THE ARCHITECT OR ENGINEER, WITH REGARD TO ANY DETAIL, IS NOT CLEAR, OR IS CAPABLE OF MORE THAN ONE INTERPRETATION, SUCH MATTERS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER IN WRITING BEFORE THE SUBMISSION OF BIDS. AND THE ARCHITECT OR ENGINEER SHALL MAKE THE NECESSARY CORRECTION OR EXPLANATION IN A WRITTEN FORMAL RESPONSE. OTHERWISE, NO EXTRA CHARGE WILL BE ALLOWED FOR THE WORK OR MATERIAL WHICH THE ARCHITECT OR ENGINEER MAY REQUIRE. PROVIDED THAT IT COMES WITHIN A REASONABLE INTERPRETATION OF THE DRAWINGS, SPECIFICATIONS, AND OVERALL INTENT OF THE CONTRACT DOCUMENTS.
6. THE PLANS AND SPECIFICATIONS ARE INTENDED AS A GENERAL DESCRIPTION OF THE WORK TO BE PERFORMED. ALL ITEMS NOT SPECIFICALLY MENTIONED OR SHOWN, BUT NECESSARY FOR THE COMPLETION OF THE INSTALLATION, SHALL BE FURNISHED AND INSTALLED AS PART OF THIS CONTRACT, BY THE SUB-CONTRACTOR. THIS SUB-CONTRACTOR SHALL THOROUGHLY ACQUAINT THEMSELF WITH THE MECHANICAL, ARCHITECTURAL, PLUMBING, STRUCTURAL, AND ELECTRICAL PLANS PRIOR TO SUBMITTING THEIR FINAL BID. NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO THE CONTRACTOR'S FAILURE TO FAMILIARIZE THEMSELF WITH THE PLANS AND HAVE ALL ITEMS OF WORK CLEARLY UNDERSTOOD AND ITEMIZED IN THEIR BID PROPOSAL.
7. PROVIDE LABOR, MATERIALS, TOOLS, EQUIPMENT, AND SERVICES FOR ELECTRICAL WORK INDICATED ON DRAWINGS.
8. WHERE CONDUIT IS REQUIRED BELOW GRADE, IT SHALL BE SCHEDULE 40 PVC. PROVIDE NYLON PULL CORDS IN ALL EMPTY CONDUITS. SIZE CONDUIT PER N.E.C. FOR ENCLOSED WIRING.
9. WHERE CONDUIT IS REQUIRED WITHIN, IT SHALL BE:
   1. 9.1. WHERE EXPOSED TO PHYSICAL DAMAGE, RIGID OR INTERMEDIATE METAL
   2. 9.2. WHERE CONCEALED IN STRUCTURE OR CONCEALED BY FINISHES, EMT SHALL BE UTILIZED EXCEPT WHERE RIGID NONMETALLIC CONDUIT IS PERMITTED BY LOCAL AUTHORITY.
   3. 9.3. MC CABLE WITH FITTINGS. MC CABLE MAY NOT BE USED FOR ANY HOMERUN.FITTINGS SHALL BE APPROVED AND U.L. LISTED FOR THE RACEWAY UTILIZED.
10. ALL CONDUCTORS SHALL BE #12 MIN., THHN/THWN/XHHW INSULATION UNO. COMPLY WITH ALL N.E.C. ARTICLES. ALL CONDUCTORS SHALL BE NEW, FREE FROM KINKS AND OTHER DEFECTS AFTER INSTALLATION HAS BEEN MADE.
11. WHERE NEW CONDUCTORS AND/OR CONDUIT SYSTEM ARE INSTALLED, LENGTH AND ROUTING OF CONDUCTORS AND/OR CONDUIT SYSTEMS SHALL BE DETERMINED IN THE FIELD BY THE ELECTRICAL CONTRACTOR.
12. PROVIDE ALL ADDITIONAL AUXILIARY EQUIPMENT SUCH AS CONDUIT SUPPORT DEVICES, BOXES, CLAMPS, ETC., NOT SPECIFICALLY SHOWN ON THESE DRAWINGS, BUT NECESSARY FOR A COMPLETE INSTALLATION.
13. ALL PLATE FINISHES SHALL BE AS DESIGNATED BY THE ARCHITECT.
14. PROVIDE COMMERCIAL GRADE 20 AMP, 2 POLE, 3 WIRE, GROUNDING TYPE DEVICES WITH BACK AND SIDE WIRING CAPABILITY, SUITABLE FOR SPLIT CIRCUIT OPERATION.
15. GROUND FAULT INTERRUPTER: PROVIDE "SPECIFICATION GRADE" DUPLEX RECEPTACLES, GROUND FAULT CIRCUIT INTERRUPTERS (GFI), FEED-THRU TYPE, CAPABLE OF PROTECTING CONNECTED DOWNSTREAM RECEPTACLES ON SINGLE CIRCUIT, GROUNDING TYPE UL RATED CLASS A, 20 AMPERES RATING, 120 VOLTS, WITH SOLID STATE GROUND FAULT SENSING AND SIGNALING, 5 MILLIAMPERES GROUND FAULT TRIP LEVEL; AND EQUIP WITH LOCAL TEST/RESET BUTTONS.
16. PROVIDE SILENT TYPE STANDARD GRADE 20 AMP, 120V FOR ALL SINGLE POLE, DOUBLE POLE, THREE-WAY AND FOUR-WAY SWITCHES.
17. LUMINAIRE SCHEDULE SHOWS FIXTURE TYPES. DETERMINE MODIFICATIONS REQUIRED TO MAKE FIXTURES SUITABLE FOR CEILINGS AS INSTALLED, AND FURNISH FIXTURES ADAPTED TO THE TYPE OF CEILING USED. FIXTURES SHALL BE U.L. APPROVED. THIS CONTRACTOR SHALL PROTECT THE FIXTURES AND LAMPS AND SHALL REPLACE ANY BROKEN PARTS. ALL LENSES AND LOUVERS IN ANY AREA SHALL BE CLEANED AFTER ALL TRADES HAVE COMPLETED THEIR WORK IN THAT AREA. PROTECT EACH FIXTURE WITH CLEAN, CLEAR PLASTIC UNTIL FINAL INSPECTION. PROVIDE NEW LAMPS FOR ALL LIGHTING FIXTURES.
18. DRIVERS FOR LED FIXTURES SHALL BE U.L. CLASS P, HIGH POWER FACTOR, RAPID START TYPE WITH CBM APPROVAL WHERE APPLICABLE. DRIVERS SHALL BE "A" SOUND RATING EXCEPT WHERE THIS RATING IS NOT AVAILABLE IN WHICH CASE THE RATING SHALL BE THE BEST AVAILABLE. ALL LED DRIVERS SHALL BE ELECTRONIC, ENERGY SAVING TYPE.
19. DISCONNECTS SHALL BE HEAVY DUTY SAFETY SWITCHES WITH 100,000A SHORT CIRCUIT RATING, AND SHALL BE LISTED IN ACCORDANCE WITH U.L. 98. THE COVER SHALL BE INTERLOCKED SO THAT THE DOOR CANNOT BE OPENED WITH THE HANDLE IN THE "ON" POSITION, EXCEPT BY THE INTENTIONAL OPERATION OF A CONCEALED RELEASE (DEFEATER) MECHANISM. PROVIDE FUSIBLE SWITCH FOR AC UNITS AS PER U.L. LISTING AND LOCAL CODE REQUIREMENTS. PROVIDE DUAL ELEMENT, TIME DELAY FUSES IN ALL FUSIBLE SWITCHES. A SEPARATE GROUNDING CONDUCTOR, SIZED IN ACCORDANCE WITH N.E.C. ARTICLE 250-122 SHALL BE PROVIDED IN THE CONDUIT WITH THE CIRCUIT CONDUCTORS FOR ALL LIGHTING, POWER AND FEEDER CIRCUITS.
20. ALL ELECTRICAL EQUIPMENT ENCLOSURES AND CONDUCTOR ENCLOSURES SHALL BE GROUNDED.
21. PROVIDE PROTECTIVE COVERING OVER PANELS AND EQUIPMENT DURING CONSTRUCTION.
22. THE CONTRACTOR SHALL INSTALL THEIR WORK TO JOB CONDITIONS AND MAKE SUCH CHANGES AS REQUIRED AND PERMITTED BY THE ARCHITECT, SUCH AS MOVING THEIR WORK TO CLEAR BEAMS, JOISTS, AND ADJUSTING OTHER APPARATUS TO AVOID INTERFERENCES WITH WINDOWS AND OPENINGS; OR RAISING OR LOWERING THEIR WORK TO PERMIT THE PASSING OF DUCTWORK OR THE WORK OF OTHER TRADES; ALL AS REQUIRED OR AS JOB CONDITIONS DICTATE, WITHOUT ANY ADDITIONAL COSTS TO THE OWNER OR THE CONTRACT PRICE.
23. EXAMINE AREAS AND CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED AND PRODUCTS ARE TO BE INSTALLED AND NOTIFY ARCHITECT IN WRITING OF CONDITIONS DETRIMENTAL TO PROPER AND TIMELY COMPLETION OF THE WORK. DO NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN A MANNER ACCEPTABLE TO THE INSTALLER.
24. DO NOT ALLOW OR CAUSE ANY OF THE WORK OF THIS DIVISION, OR CAUSE OTHER DIVISIONS OF WORK TO BE COVERED UP, OR ENCLOSED, UNTIL IT HAS BEEN INSPECTED, TESTED, AND APPROVED BY THE ARCHITECT AND BY ALL OTHER AUTHORITIES HAVING JURISDICTION.
25. PROVIDE GROUND AND CONTINUITY TESTING ON ALL ELECTRICAL CIRCUIT WIRING PRIOR TO RECONNECTION/REINSTALLATION.
26. ALL SWITCHES, OUTLETS, COVER PLATES, SIGNS, LIGHTING FIXTURES, AND ANY AND ALL OTHER ELECTRICAL EQUIPMENT PROVIDED SHALL BE THOROUGHLY CLEANED OF ALL DIRT, OIL, CONCRETE, ETC. ANY DENTS, SCRATCHES OR OTHER VISIBLE BLEMISHES SHALL BE CORRECTED AND THE APPEARANCE AND CORROSION RESISTANCE OF THE EQUIPMENT MADE "LIKE NEW", TO THE SATISFACTION OF THE ARCHITECT/ENGINEER.
27. PERFORM ALL ADJUSTMENTS NECESSARY TO ENSURE PROPER SYSTEM OPERATION IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.

APPLICABLE CODES:

1. FLORIDA BUILDING CODE 2023 8TH EDITION.
2. FLORIDA BUILDING CODE 2023 - ENERGY CONSERVATION 8TH EDITION.
3. FLORIDA FIRE PREVENTION CODE 2023 8TH EDITION.
4. NFPA 37 STANDARD FOR THE INSTALLATION AND USE OF STATIONARY COMBUSTION ENGINES - 2021 EDITION.
5. NFPA 70 NATIONAL ELECTRICAL CODE - 2020 EDITION.
6. NFPA 72 NATIONAL FIRE ALARM & SIGNALING CODE - 2019 EDITION.
7. NFPA 101 LIFE SAFETY CODE - 2021 EDITION.
8. NFPA 110 STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS - 2019 EDITION.
9. NFPA 780 STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS - 2020 EDITION.
10. NFPA 1221 STANDARD FOR THE INSTALLATION OF EMERGENCY SERVICES COMUUNICATION SYSTEMS - 2019 EDITION.

VOLTAGE DROP:

THIS PROJECT IS DESIGNED FOR A MAXIMUM TOTAL VOLTAGE DROP OF 5% AS PER 2023 FBC ENERGY CONSERVATION C405.5.3: THE FEEDERS AND BRANCH CIRCUIT CONDUCTORS HAVE BEEN SIZED FOR A MAXIMUM VOLTAGE DROP OF 5% AT DESIGN LOAD.

CLIENT

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REGISTRATION

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DRAWING HISTORY

No	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

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PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
GENERAL NOTES AND SYMBOL LEGEND - ELECTRICAL

SHEET NUMBER
E0.01E

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/RBPD_Evidence and Firing Range_MEPF_R24.rvt
DATE STAMP: 10/23/2025 11:38:03 AM

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	WATTS	TYPE	VOLTAGE	MOUNTING	NOTES
A1	HIGH BAY FIXTURE CONSTRUCTED FROM EXTRUDED ALUMINUM WITH WITH GLARE CONTROL ACRYLIC LENS AND 0-10V DIMMING DRIVER. 4000K CCT. 80CRI. MH: 24'-0" AFF - AIRCRAFT CABLE. BASIS OF DESIGN: LITHONIA CPHB 12000LM SEF GCL MD 40K 80CRI OR APPROVED EQUAL.	88	LED	UNV	SUSPENDED	-
A1E	SAME FIXTURE AS TYPE 'A1' BUT WITH 90 MINUTE INTEGRAL EMERGENCY BATTERY BACK UP. BASIS OF DESIGN: LITHONIA CPHB 12000LM SEF GCL MD 40K 80CRI E10W OR APPROVED EQUAL.	88	LED	UNV	SUSPENDED	-
A2	HIGH BAY FIXTURE CONSTRUCTED FROM EXTRUDED ALUMINUM WITH WITH GLARE CONTROL ACRYLIC LENS AND 0-10V DIMMING DRIVER. 4000K CCT. 80CRI MH: 24'-0" AFF - AIRCRAFT CABLE. BASIS OF DESIGN: LITHONIA CPHB 24000LM SEF GCL MD 40K 80CRI OR APPROVED EQUAL.	175	LED	UNV	SUSPENDED	-
A2E	SAME FIXTURE AS TYPE 'A2' BUT WITH 90 MINUTE INTEGRAL EMERGENCY BATTERY BACK UP. BASIS OF DESIGN: LITHONIA CPHB 24000LM SEF GCL MD 40K 80CRI E10W OR APPROVED EQUAL.	175	LED	UNV	SUSPENDED	-
B	2'X4' CENTER ELEMENT TROFFER CONSTRUCTED FROM ALUMINUM FRAME WITH GLARE RESISTANT MATTE WHITE REFLECTOR, IMPACT RESISTANT ACRYLIC LENS, AND 0-10V DIMMING DRIVER. 4000K CCT. 80CRI. BASIS OF DESIGN: LITHONIA STAK 2X2 5000LM 80CRI 40K COL MVOLT OR APPROVED EQUAL.	43	LED	UNV	RECESSED	-
BE	SAME FIXTURE AS TYPE 'B' BUT WITH 90 MINUTE INTEGRAL EMERGENCY BATTERY BACK UP. BASIS OF DESIGN: LITHONIA STAK 2X2 5000LM 80CRI 40K COL MVOLT E10W OR APPROVED EQUAL.	43	LED	UNV	RECESSED	-
C	6" DOWNLIGHT CONSTRUCTED FROM GALVANIZED STEEL WITH HINGED ACCESS COVER, SPRING LATCHES, ADJUSTABLE MOUTING BRACKETS, INTEGRAL HEAT SINKS AND 0-10V DIMMING DRIVER. 4000K CCT. 80CRI. BASIS OF DESIGN: LITHONIA LDN6 40/15 L06 AR LD OR APPROVED EQUAL.	18	LED	UNV	RECESSED	(1)
CE	SAME FIXTURE AS TYPE 'C' BUT WITH 90MINUTE INTEGRAL EMERGENCY BATTERY BACK UP. BASIS OF DESIGN: LITHONIA LDN6 40/15 L06 AR LD EL OR APPROVED EQUAL.	18	LED	UNV	RECESSED	(1)
D	4' STRIP FIXTURE CONSTRUCTED FROM COLD ROLLED STEEL WITH HIGH GLOSS BAKED WHITE POLYESTER FINISH, FLAT DIFFUSED LENS, 0-10V DIMMING DRIVER AND AIRCRAFT CABLE WITH Y HANGERS. 4000K CCT, MH: 12'-0" AFF. 80CRI. BASIS OF DESIGN: LITHONIA CLX L48 4000LM SEF FDL MVOLT GZ10 40K 80CRI WHZACVHM100 OR APPROVED EQUAL.	26	LED	UNV	SUSPENDED	-
DE	SAME FIXTURE AS TYPE 'D' BUT WITH 90 MINUTE INTEGRAL EMERGENCY BATTERY BACK UP. BASIS OF DESIGN: LITHONIA CLX L48 4000LM SEF FDL MVOLT GZ10 40K 80CRI E10W WHZACVHM100 OR APPROVED EQUAL.	26	LED	UNV	SUSPENDED	-
F	24" LINEAR BATHROOM VANITY LIGHT WITH SATIN NICKEL FINISH. DAMP LOCATION LISTED BASIS OF DESIGN: OXYGEN 3-571-24 OR APPROVED EQUAL.	15	LED	UNV	SURFACE	-
G	4' STRIP FIXTURE CONSTRUCTED FROM COLD ROLLED STEEL WITH HIGH GLOSS BAKED WHITE POLYESTER FINISH, FLAT DIFFUSED LENS, 0-10V DIMMING DRIVER 4000K CCT. 80CRI. BASIS OF DESIGN: LITHONIA ZL1D L48 3000LM FST MVOLT 40K 80CRI OR APPROVED EQUAL.	30	LED	UNV	SURFACE	-
GE	SAME FIXTURE AS TYPE 'G' BUT WITH 90 MINUTE INTEGRAL EMERGENCY BATTERY BACK UP. BASIS OF DESIGN: LITHONIA ZL1D L48 3000LM FST MVOLT 40K 80CRI E10W OR APPROVED EQUAL.	30	LED	UNV	SURFACE	-
H	2X2 FLAT PANNEL CONSTRUCTED FROM METAL WITH SWITCHABLE LUMEN OUTPUT, SWITCHABLE CCT, SATIN WHITE LENS, AND WITH 0-10V DIMMING DRIVER. IP65 RATED, WET LOCATION LISTED, IK10 RATED. 4000K CCT. 80CRI. BASIS OF DESIGN: LITHONIA CPX 2X2 ALOT (HIGH) SWW7(40K) SWL MVOLT OR APPROVED EQUAL.	30	LED	UNV	RECESSED	-
HE	SAME FIXTURE AS TYPE 'H' BUT WITH 90 MINUTE INTEGRAL EMERGENCY BATTERY BACK UP. BASIS OF DESIGN: LITHONIA CPX 2X2 ALOT (HIGH) SWW7(40K) SWL MVOLT E10W OR APPROVED EQUAL.	30	LED	UNV	RECESSED	-
WPA	TRAPEZOIDAL WALL SCONCE/WALLPACK CONSTRUCTED FROM SINGLE PIECE DIE CAST ALUMINUM WITH WITH INTEGRAL HEAT SINKS, GASKETED DOOR FRAME, ZINC THERMOSET POWDER COAT FINISH, ACRYLIC LENS, 0-10V DIMMING DRIVER, WIDE OPTICS AND INTEGRAL EM BATTERY. 4000K CCT. 9'-0" AFF. BASIS OF DESIGN: LITHONIA WDGE1 LED P2 40K 80CRI VW MVOLT E4WH DDBXD OR APPROVED EQUAL.	15	LED	UNV	SURFACE	-
WPB	TRAPEZOIDAL WALL SCONCE/WALLPACK CONSTRUCTED FROM SINGLE PIECE DIE CAST ALUMINUM WITH WITH INTEGRAL HEAT SINKS, GASKETED DOOR FRAME, ZINC THERMOSET POWDER COAT FINISH, ACRYLIC LENS, 0-10V DIMMING DRIVER, WIDE OPTICS. 4000K CCT. 16'-0" AFF. BASIS OF DESIGN: LITHONIA WDGE3 LED P3 40K R3 MVOLT SRM DDBXD OR APPROVED EQUAL.	71	LED	UNV	SURFACE	-
X	THERMOPLASTIC RED LETTERED LED SIGN WITH FIELD AJUSTABLE CHEVRONS AND 90 MINUTE EMERGENCY BATTERY BACK UP. UL-924 LISTED BASIS OF DESIGN: EVENLITE TLX-EM-RU-W OR APPROVED EQUAL.	2	LED	UNV	SURFACE	-

NOTES: 1. FLANGE AND FINISH BY ARCHITECT/ID.

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DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

PROJECT STATUS

90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION

1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

1007657.00

SHEET TITLE

LUMINAIRE SCHEDULE - ELECTRICAL

SHEET NUMBER

E0.02E

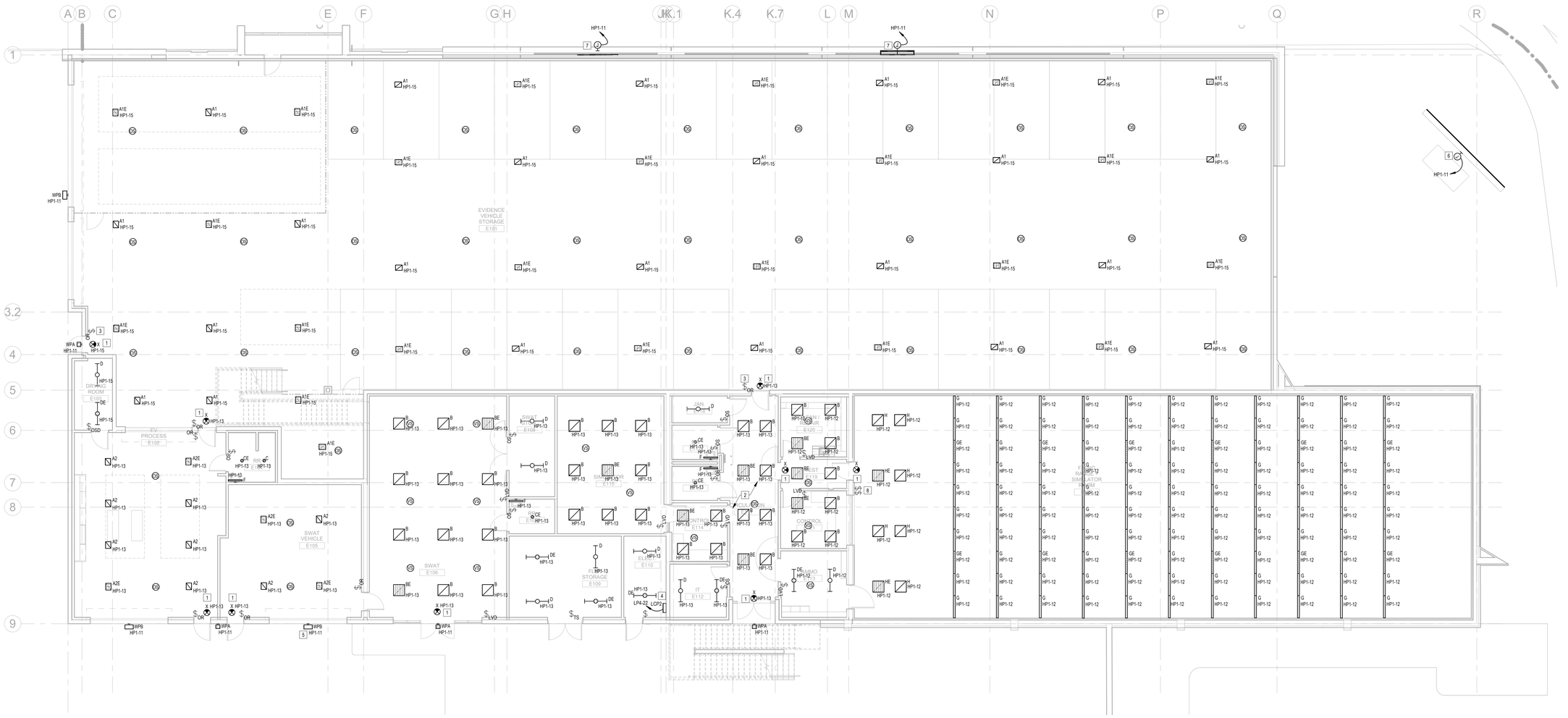
FILE NAME: Autodesk Docs// 1007657.00 - CORE - City of Riviera Beach D/RBPD_Evidence and Firing Range_MEPF_R24.rvt
DATE STAMP: 10/23/2025 11:38:07 AM

KEYNOTES:

1. WIRE ALL EXIT LUMINAIRES AHEAD OF ALL SWITCHING. (TYPICAL)
2. CORRIDOR AND COMMON AREA LIGHTING CONTROLLED VIA OCCUPANCY SENSOR. (TYPICAL)
3. VEHICLE STORAGE BAY HIGHBAY LUMINAIRES CONTROLLED VIA OCCUPANCY SENSOR WITH OVERRIDE SWITCHES.
4. PROPOSED LOCATION FOR LIGHTING CONTROL PANEL. COORDINATE FINAL LOCATION WITH OTHER TRADES PRIOR TO ROUGH-IN.
5. EXTERIOR WALL MOUNTED LIGHTING CONTROLLED VIA LIGHTING CONTROL PANEL TIMECLOCK/PHOTOCELL COMBINATION. REFER TO LCP SCHEDULE ON SHEET E7.02 FOR ADDITIONAL INFORMATION. (TYPICAL)
6. EXTERIOR MONUMENT SIGN CONTROLLED VIA LIGHTING CONTROL PANEL TIMECLOCK/PHOTOCELL COMBINATION. REFER TO LCP2 SCHEDULE ON SHEET E7.02 FOR ADDITIONAL INFORMATION.
7. EXTERIOR SIGNAGE LIGHTING CONTROLLED VIA LIGHTING CONTROL PANEL TIMECLOCK/PHOTOCELL COMBINATION. REFER TO LCP2 SCHEDULE ON SHEET E7.02 FOR ADDITIONAL INFORMATION.
8. FIRING RANGE FIXTURES CONTROLLED VIA SINGLE POLE TOGGLE SWITCHES FOR SAFETY PURPOSES.

GENERAL LIGHTING NOTES:

1. ALL LIGHT SWITCHES SHALL BE 277V RATED UNLESS OTHERWISE NOTED.
2. COORDINATE EXACT LOCATION OF EACH LIGHT FIXTURE WITH MECHANICAL, PIPING, CONDUIT, HVAC TERMINALS, ETC. FIELD ADJUST ANY LIGHT TO AVOID CONFLICT.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT TYPE AND HEIGHT OF CEILING IN EACH ROOM. COORDINATE WITH ARCHITECT/ENGINEER PRIOR TO ROUGH-IN OF ANY FIXTURES. COORDINATE ALL CONTROL JOINT LOCATIONS WITH LIGHT FIXTURES PRIOR TO ANY ROUGH-IN OF FIXTURES.
4. EXIT LIGHTS SHALL BE MOUNTED WITH BOTTOM OF FIXTURE AT 6" ABOVE DOOR HEADER IN ALL AREAS THAT PERMIT THIS PLACEMENT. ALL OTHERS MAY BE CEILING MOUNTED.
5. MULTIPLE LIGHT SWITCHES, AT THE SAME LOCATION, SHALL BE GANGED TOGETHER UNDER ONE COVER PLATE. DIMMER SWITCHES SHALL BE INSTALLED IMMEDIATELY BELOW SWITCH LOCATIONS.
6. COORDINATE LOCATION OF ALL LIGHT FIXTURES WITH ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS PRIOR TO ROUGH-IN.
7. POWER PACK FOR OCCUPANCY SENSORS ARE NOT INDICATED ON PLANS. ELECTRICAL CONTRACTOR SHALL PROVIDE POWER PACKS PER OCCUPANCY SENSOR MANUFACTURER'S RECOMMENDATIONS.
8. PROVIDE A LIGHTING CONTROL SYSTEM TO CONTROL ALL LIGHTS, UNLESS NOTED OTHERWISE. BASIS OF DESIGN FOR LOW VOLTAGE LIGHTING CONTROL SYSTEM IS ACUITY. PROVIDE ALL COMPONENTS REQUIRED FOR A COMPLETELY OPERATIONAL LIGHTING CONTROL SYSTEM. REFER TO SHEET E8.02E FOR LIGHTING CONTROL PLANS.
9. LIGHTING FIXTURE CONTROL WITH OCCUPANCY SENSORS/PHOTOCELLS, ETC, SHOWN ON DRAWINGS ARE DIAGRAMMATIC. LIGHTING CONTROL SYSTEM PHOTOCELLS, OCCUPANCY SENSORS, WALL SWITCHES, POWER SUPPLIES/REMOTE DRIVERS (NOT SHOWN), ETC., SHALL BE COORDINATED WITH LIGHTING CONTROLS MANUFACTURER'S SHOP DRAWINGS. INDICATED QUANTITIES, TYPE, AND LOCATION OF DEVICES SHOWN ON LIGHTING CONTROLS MANUFACTURER'S SHOP DRAWINGS SHALL SUPERCEDE DEVICES INDICATED ON THIS DRAWING.



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DRAWING HISTORY

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A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
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CONSULTANT

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PROJECT STATUS

90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION

1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

1007657.00

SHEET TITLE

FLOOR PLAN - EVIDENCE/FIRING RANGE - LIGHTING

SHEET NUMBER

E1.01E

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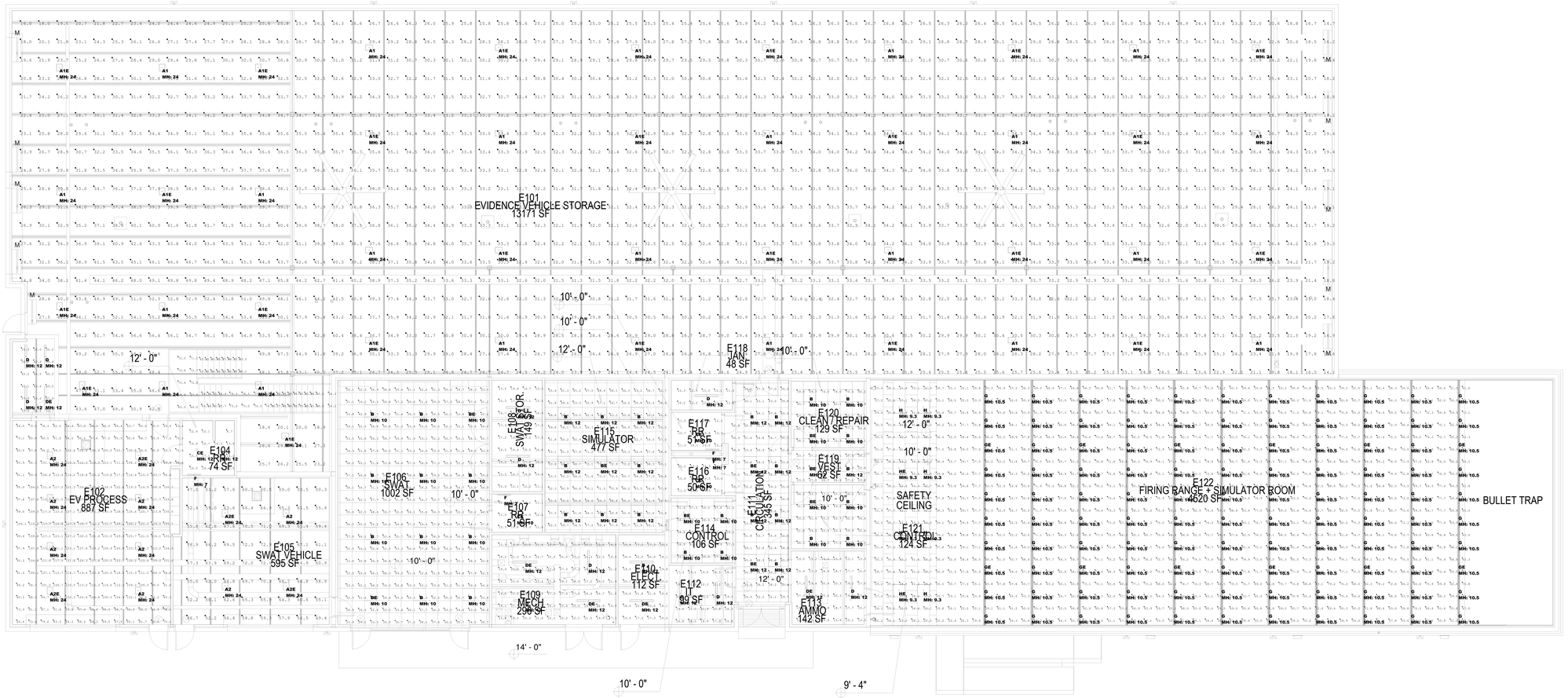

LUMINAIRE SCHEDULE

Scenario: NORMAL

SYMBOL	QTY	LABEL	ARRANGEMENT	MANUFACTURER	CATALOG NUMBER	MOUNTING	EMERGENCY	LLF	LUMINAIRE LUMENS	LUMINAIRE WATTS
	25	A1	Single	Lithonia Lighting	CPHB 12000LM SEF GCL MD 40K 80CRI	SUSPENDED	N/A	0.860	12277	87.95
	23	A1E	Single	Lithonia Lighting	CPHB 12000LM SEF GCL MD 40K 80CRI	SUSPENDED	GENERATOR	0.860	12277	87.95
	8	A2	Single	Lithonia Lighting	CPHB 24000LM SEF GCL MD 40K 80CRI	SUSPENDED	N/A	0.860	24882	174.41
	4	A2E	Single	Lithonia Lighting	CPHB 24000LM SEF GCL MD 40K 80CRI	SUSPENDED	GENERATOR	0.860	24882	174.41
	34	B	Single	Lithonia Lighting	STAK 2X2 5000LM 80CRI 40K COL MVOLT	RECESSED	N/A	0.860	5290	42.6156
	9	BE	Single	Lithonia Lighting	STAK 2X2 5000LM 80CRI 40K COL MVOLT	RECESSED	GENERATOR	0.860	5290	42.6156
	1	C	Single	Lithonia Lighting	LDN6 40/15 L06AR LD	RECESSED	N/A	0.670	1358	17.52
	4	CE	Single	Lithonia Lighting	LDN6 40/15 L06AR LD	RECESSED	GENERATOR	0.670	1358	17.52
	12	D	Single	Lithonia Lighting	CLX L48 4000LM SEF FDL MVOLT 40K 80CRI	SUSPENDED	N/A	0.860	3956	25.5429
	5	DE	Single	Lithonia Lighting	CLX L48 4000LM SEF FDL MVOLT 40K 80CRI	SUSPENDED	GENERATOR	0.860	3956	25.5429
	4	F	Single	Oxygen Lighting	3-571-24	WALL SURFACE	N/A	0.860	1180	14.9
	98	G	Single	Lithonia Lighting	ZL1D L48 3000LM FST MVOLT 40K 80CRI	CEILING SURFACE	N/A	0.860	4029	29.85
	12	GE	Single	Lithonia Lighting	ZL1D L48 3000LM FST MVOLT 40K 80CRI	CEILING SURFACE	GENERATOR	0.860	4029	29.85
	6	H	Single	Lithonia Lighting	CPX 2X2 ALO7 (High) SWW7 (40K) SWL MVOLT	CEILING RECESSED	N/A	0.760	4559	32.76
	2	HE	Single	Lithonia Lighting	CPX 2X2 ALO7 (High) SWW7 (40K) SWL MVOLT	CEILING RECESSED	GENERATOR	0.760	4559	32.76

CALCULATION SUMMARY

Scenario: NORMAL

LABEL	CALC TYPE	UNITS	SPACING L-R (FT)	SPACING T-B (FT)	HEIGHT (FT)	AVG	MAX	MIN	AVG/MIN	MAX/MIN
103 - DRYING ROOM_Floor	Illuminance	Fc	2	2	0	38.08	42.5	33.6	1.13	1.26
E101 - EVIDENCE VEHICLE STORAGE_Floor	Illuminance	Fc	3	3	0	32.19	58.2	14.1	2.28	4.13
E102 - EV PROCESS_Workplane	Illuminance	Fc	2	2	2.5	104.56	132.1	48.6	2.15	2.72
E104 - RR_Floor	Illuminance	Fc	2	2	0	14.49	17.1	8.7	1.67	1.97
E105 - SWAT VEHICLE_Floor	Illuminance	Fc	3	3	0	61.89	72.9	46.7	1.33	1.56
E106 - SWAT_Workplane	Illuminance	Fc	2	2	2.5	47.89	60.9	23.9	2.00	2.55
E107 - RR_Floor	Illuminance	Fc	2	2	0	13.36	14.8	11.1	1.20	1.33
E108 - SWAT STOR_Floor	Illuminance	Fc	2	2	0	15.98	19.3	10.9	1.47	1.77
E109 - MECH_Floor	Illuminance	Fc	2	2	0	23.09	28.1	15.8	1.46	1.78
E110 - ELECT_Floor	Illuminance	Fc	2	2	0	19.06	22.4	15.4	1.24	1.45
E111 - CIRCULATION_Floor	Illuminance	Fc	2	2	0	48.81	59.2	29.7	1.64	1.99
E112 - IT_Floor	Illuminance	Fc	2	2	0	19.70	23.2	15.8	1.25	1.47
E113 - AMMO_Floor	Illuminance	Fc	2	2	0	17.07	20.4	13.3	1.28	1.53
E114 - CONTROL_Floor	Illuminance	Fc	2	2	0	59.52	68.3	51.0	1.17	1.34
E115 - SIMULATOR_Workplane	Illuminance	Fc	2	2	2.5	58.00	73.4	32.7	1.77	2.24
E116 - RR_Floor	Illuminance	Fc	2	2	0	13.18	14.5	11.2	1.18	1.29
E117 - RR_Floor	Illuminance	Fc	2	2	0	13.28	14.6	11.3	1.18	1.29
E118 - JAN_Floor	Illuminance	Fc	2	2	0	12.08	13.3	10.2	1.18	1.30
E119 - VEST_Floor	Illuminance	Fc	2	2	0	27.28	31.0	23.5	1.16	1.32
E120 - CLEAN REPAIR_Workplane	Illuminance	Fc	2	2	2.5	72.41	83.9	58.1	1.25	1.44
E121 - CONTROL_Floor	Illuminance	Fc	2	2	0	56.50	65.7	46.3	1.22	1.42
E122 - FIRING RANGE SIMULATOR ROOM_Floor	Illuminance	Fc	2	2	0	63.05	92.7	19.6	3.22	4.73
STAIR	Illuminance	Fc				66.30	80.0	30.3	2.19	2.64

LIGHTING POWER DENSITY SUMMARY

Scenario: NORMAL

LABEL	AREA	TOTAL WATTS	LPD
103 - DRYING ROOM_LPD	87.75	102.1716	1.164
E101 - EVIDENCE VEHICLE STORAGE_LPD	13169	4221.599	0.321
E102 - EV PROCESS_LPD	888.67	1395.28	1.570
E104 - RR_LPD	73.79	49.94	0.677
E105 - SWAT VEHICLE_LPD	595.21	697.64	1.172
E106 - SWAT_LPD	998.08	511.3872	0.512
E107 - RR_LPD	51.26	32.42	0.632
E108 - SWAT STOR_LPD	149.32	51.0858	0.342
E109 - MECH_LPD	296.27	102.1716	0.345
E110 - ELECT_LPD	111.53	51.0858	0.458
E111 - CIRCULATION_LPD	337.43	340.9248	1.010
E112 - IT_LPD	99.37	51.0858	0.514
E113 - AMMO_LPD	141.89	51.0858	0.360
E114 - CONTROL_LPD	105.68	170.4624	1.613
E115 - SIMULATOR_LPD	477.13	383.5404	0.804
E116 - RR_LPD	50.32	32.42	0.644
E117 - RR_LPD	50.75	32.42	0.639
E118 - JAN_LPD	48.15	25.5429	0.530
E119 - VEST_LPD	62.20	85.2312	1.370
E120 - CLEAN REPAIR_LPD	128.62	170.4624	1.325
E121 - CONTROL_LPD	123.66	170.4624	1.378
E122 - FIRING RANGE SIMULATOR ROOM_LPD	4469	3545.583	0.793

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PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
PHOTOMETRICS - ELECTRICAL

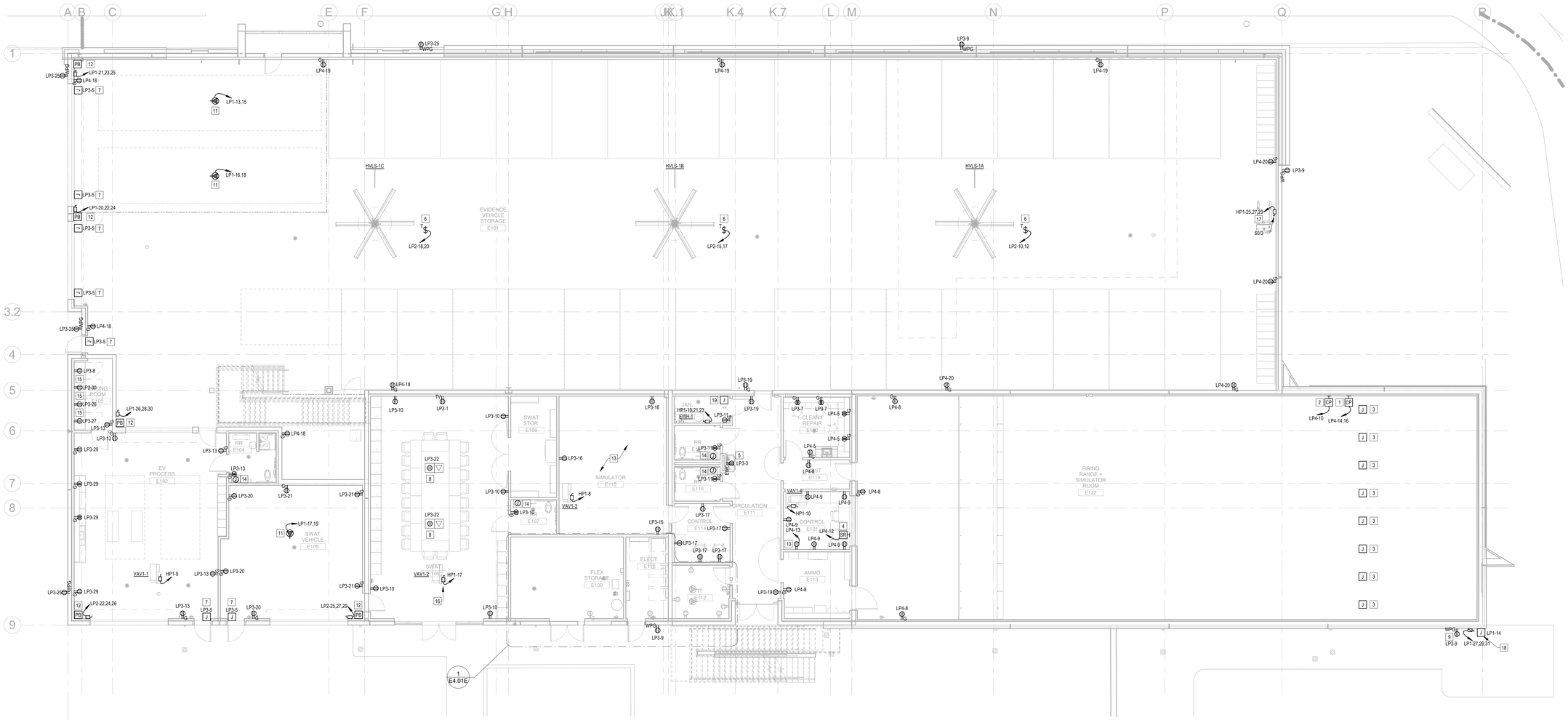
SHEET NUMBER
E1.02E

KEYNOTES:

1. PROVIDE HARDWIRED POWER CONNECTION TO FIRING RANGE DRM PRO PANEL (DRMPP). COORDINATE FINAL CONNECTION REQUIREMENTS WITH FIRING RANGE DRAWINGS PRIOR TO ROUGH-IN.
2. PROVIDE HARDWIRED POWER CONNECTION TO FIRING RANGE FIXED TURNING TARGET PANEL (FTTP). COORDINATE FINAL CONNECTION REQUIREMENTS WITH FIRING RANGE DRAWINGS PRIOR TO ROUGH-IN.
3. PROVIDE 4X4X4 JUNCTION BOX FOR TARGET LINE. REFER TO SHEET T1.01E FOR CONDUIT REQUIREMENTS. COORDINATE FINAL CONNECTION REQUIREMENTS WITH FIRING RANGE DRAWINGS PRIOR TO ROUGH-IN.
4. PROVIDE HARDWIRED CONNECTION TO FIRING RANGE MINI SERVER RACK. COORDINATE FINAL CONNECTION REQUIREMENTS WITH FIRING RANGE DRAWINGS PRIOR TO ROUGH-IN.
5. PROVIDE POWER CONNECTION TO EWC. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. EWC SHALL BE FED BY GFCI BREAKER.
6. PROVIDE CONNECTION TO HVLS CEILING FAN. PROVIDE ADDITIONAL CONDUITS AND BOXES TO CONTROL STATION LOCATION PER MECHANICAL DRAWINGS. COORDINATE FINAL CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
7. PROVIDE CONNECTION TO MOTORIZED VOLUME DAMPER. COORDINATE FINAL CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
8. PROPOSED LOCATION FOR FLOOR BOX. EC SHALL OBTAIN DIMENSION FROM ARCHITECT PRIOR TO ROUGH-IN.
   BOD: WIREMOLD RFBA6R300G
9. PROVIDE LOCKABLE DIE-CAST IN-USE ALUMINUM COVER. (TYPICAL FOR ALL EXTERIOR WPG RECEPTACLES)
   BOD: INTERMATIC WP1250MVXD
10. PROVIDE DEDICATED QUAD RECEPTACLE FOR WALL MOUNTED IT CABINET. MOUNT 5'-0" AFF.
11. PROVIDE 14-50R RECEPTACLE HUNG FROM CEILING TO SERVICE MCC VEHICLES. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH END USER PRIOR TO ROUGH-IN. REFER TO DETAIL #B ON SHEET E6.02E FOR ADDITIONAL INFORMATION.
12. PROVIDE POWER CONNECTION TO OVERHEAD COILING DOORS. REFER TO EQUIPMENT SCHEDULE ON SHEET E7.05 FOR SIZES. COORDINATE FINAL PUSH BUTTON ACTIVATION LOCATION AND ADDITIONAL CONNECTION REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGH-IN.
13. PROVIDE ADDITIONAL RACEWAY, CONDUITS AND BOXES BACK TO ELECTRICAL ROOM. FINAL SIMULATOR DESIGN TO BE DETERMINED AT A LATER DATE.
14. PROVIDE POWER CONNECTION TO AUTOMATIC FLUSH VALVE AND/OR AUTOMATIC FAUCET. WIRE TO NEAREST GENERAL RECEPTACLE CIRCUIT AHEAD OF ANY GFI RECEPTACLE IF CIRCUIT NUMBER IS NOT DESIGNATED. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
15. PROVIDE POWER CONNECTION TO EVIDENCE DRYING CABINET. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH EQUIPMENT MANUFACTURER AND END USER PRIOR TO ROUGH-IN.
16. PROVIDE EXTERNAL DISCONNECT SWITCH OF VAV. REFER TO EQUIPMENT SCHEDULE ON SHEET E7.05 FOR SIZES. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. (TYPICAL FOR ALL HEATING VAV'S)
17. PROVIDE POWER CONNECTION TO FORK LIFT CHARGER. COORDINATE FINAL POWER CONNECTION REQUIREMENTS WITH FORK LIFT MANUFACTURER AND END USER PRIOR TO ROUGH-IN.
18. PROVIDE POWER CONNECTIONS FOR IRRIGATION PUMP AND CONTROLLER. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH IRRIGATION CONTRACTOR AND LANDSCAPE ARCHITECT PRIOR TO ROUGH-IN.
19. WIRE RECIRC PUMP TO NEAREST 120V GENERAL RECEPTACLE CIRCUIT AHEAD OF ANY GFI RECEPTACLE. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.

GENERAL POWER NOTES:

1. COORDINATE EXACT INSTALLATION REQUIREMENTS OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS AND ACCEPTED MILLWORK SHOP DRAWINGS. RELOCATE RECEPTACLES AND ELECTRICAL EQUIPMENT TO AVOID CONFLICTS WITH ARCHITECTURAL CASEWORK.
2. LOCATIONS OF ALL DEVICES ON DRAWINGS ARE APPROXIMATE ONLY. VERIFY EXACTLY LOCATION WITH OWNERS REPRESENTATIVES, ARCHITECT AND/OR ENGINEER PRIOR TO ROUGH-IN.
3. COORDINATE THE LOCATION OF POWER RECEPTACLES WITH VOICE/DATA OUTLETS ESPECIALLY WHERE COMPUTERS ARE TO BE LOCATED. COORDINATE WITH TECHNOLOGY DRAWINGS.
4. ALL RACEWAYS AND CABLE SHALL BE CONCEALED UNLESS NOTED OR APPROVED IN WRITING BY OWNER AND/OR ENGINEER.
5. ALL 15 AND 20 AMPS, 125 VOLTS RECEPTACLES SHALL BE TAMPER-RESISTANT RECEPTACLES.
6. ALL CONTROL WIRING FOR MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.
7. COORDINATE WITH PLUMBING CONTRACTOR FOR EXACT LOCATION AND CONNECTION REQUIREMENTS OF EQUIPMENT PRIOR TO ROUGH-IN.
8. ALL 20A, 120/208V HOMERUNS LONGER THAN 90' SHALL BE A MINIMUM SIZE OF #10 AWG AND ALL HOMERUNS LONGER THAN 230' SHALL BE A MINIMUM OF SIZE OF #6 AWG.
9. MOUNT ALL DISCONNECT SWITCHES FOR MECHANICAL EQUIPMENT WITHIN 6 FT. OF EQUIPMENT CONNECTION POINT. VERIFY LOCATION OF POINT OF CONNECTION WITH EQUIPMENT INSTALLER PRIOR TO ELECTRICAL ROUGH-IN. MAINTAIN CODE REQUIRED CLEARANCES. (DRAWINGS ONLY SHOW DIAGRAMMATIC LOCATION OF CONNECTION).
10. VFD/STARTERS ON MECHANICAL EQUIPMENT ARE SHOWN FOR WIRING PURPOSES ONLY. VFD/STARTERS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
11. DISCONNECT SWITCHES FOR ALL MECHANICAL, PLUMBING AND MISCELLANEOUS ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN READILY ACCESSIBLE LOCATIONS. MAINTAIN CODE REQUIRED CLEARANCES.
12. FLOOR BOX LOCATIONS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT TO OBTAIN ROUGH-IN DIMENSIONS.
13. PROVIDE POWER CONNECTION ABOVE DOORS WITH ACCESS CONTROLS. DOORS SHALL BE WIRED TO NEAREST 120V GENERAL POWER CIRCUIT. REFER TO ARCHITECTURAL DOOR SCHEDULE AND TECHNOLOGY DRAWINGS FOR DETAILS AND ACCESS CONTROL LOCATIONS. COORDINATE ADDITIONAL REQUIREMENTS WITH DIVISION 27 AND 28 CONTRACTORS PRIOR TO ROUGH-IN.



OVERALL FIRST FLOOR PLAN - POWER 1/8" = 1'-0" (1)

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PROJECT STATUS

90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION

1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

1007657.00

SHEET TITLE

FLOOR PLAN - EVIDENCE/FIRING RANGE - POWER

SHEET NUMBER

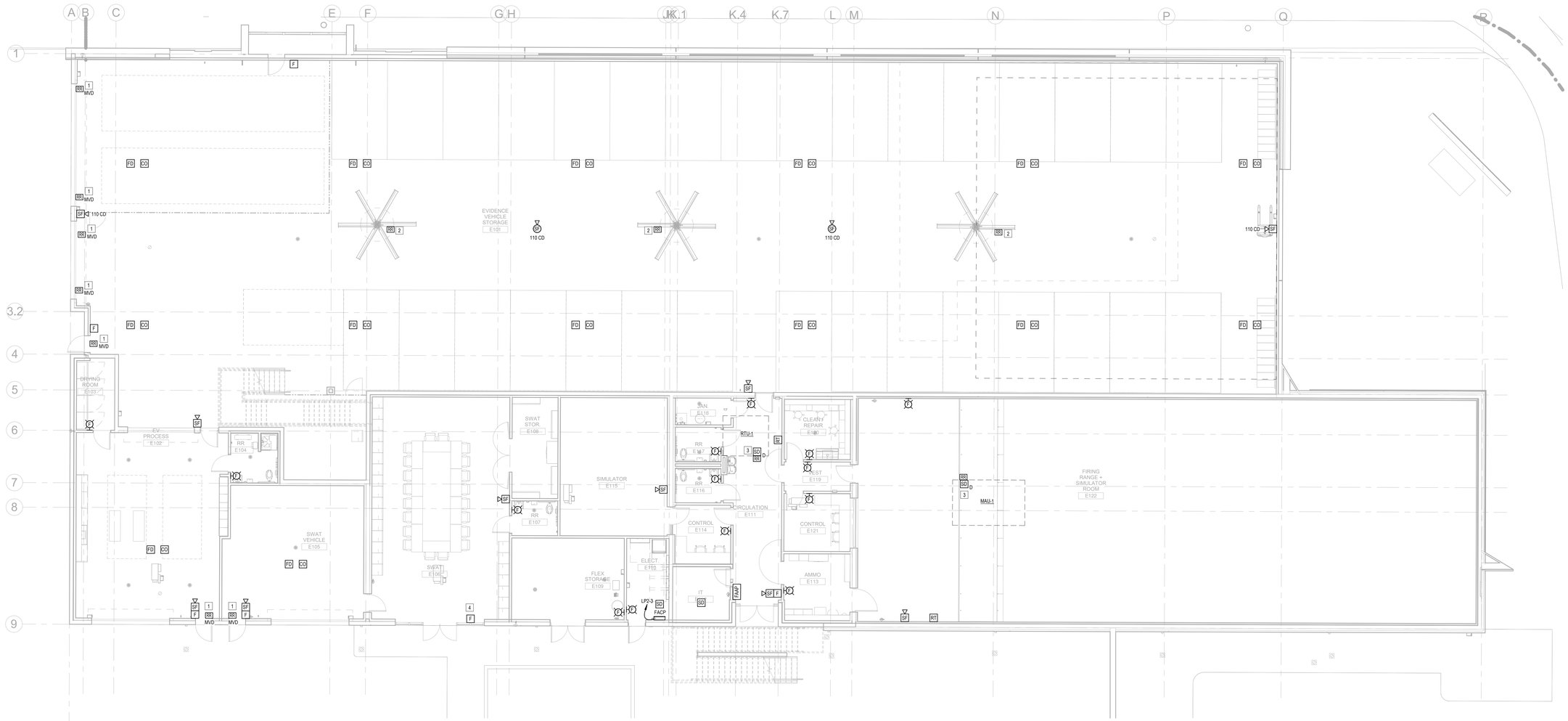
E2.01E

KEYNOTES:

1. PROVIDE SHUTDOWN RELAY FOR MOTORIZED VOLUME DAMPER. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
2. PROVIDE SHUTDOWN RELAY FOR HIGH VOLUME LOW SPEED CEILING FANS. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
3. COORDINATE FINAL DUCT SMOKE DETECTOR, SHUTDOWN RELAYS, AND REMOTE TEST SWITCH LOCATION WITH OTHER TRADES PRIOR TO ROUGH-IN.
4. PROVIDE MULLION COVER TO CONCEAL CONDUIT TO PULL STATION.

GENERAL FIRE ALRAM NOTES:

1. ALL WALL-MOUNTED AUDIBLE & VISUAL SIGNALING APPLIANCES SHALL HAVE THEIR HEIGHTS ABOVE THE FINISHED FLOOR AT 80" PER FBC CHAPTER 11, ART 11.4.28.3. AREAS HAVING MORE THAN 2 STROBES IN THE FIELD OF VIEW SHALL BE SYNCHRONIZED PER NFPA 72, CH4- 4.1.1(4)
2. DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER THE CONSTRUCTION CLEAN-UP OF ALL TRADES IS COMPLETE AND FINAL. DETECTORS THAT HAVE BEEN INSTALLED PRIOR TO FINAL CLEAN-UP BY ALL TRADES SHALL BE CLEANED OR REPLACED. CLEANING OR REPLACEMENT OF DEVICES THAT WERE MOUNTED AT THE REQUEST OF THE CONTRACTOR WILL NOT BE PERFORMED WITHOUT WRITTEN AUTHORIZATION THAT ASSUMES FINANCIAL RESPONSIBILITY FOR COSTS INCURRED.
3. ALL DEVICES IN THE ALARM SYSTEM SHALL BE COMPATIBLE AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
4. CENTER OF MANUAL PULL STATIONS SHALL BE MOUNTED AT 48" MAXIMUM ABOVE FLOOR LEVEL, PER FBC CHAPTER 11.
5. ALL EQUIPMENT SHALL BE U.L. LISTED.
6. ALL JUNCTION BOXES SHALL BE SIZED IN ACCORDANCE WITH THE N.E.C. AND SHALL HAVE THEIR COVERS PAINTED RED WHERE BOX IS INSTALLED BEHIND BUILDING FINISHES OR IN UNFINISHED SPACES..
7. ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS TO AREAS AND DEVICES THAT REQUIRE SERVICING, TROUBLE SHOOTING, ETC.
8. DO NOT DEVIATE FROM CONDUIT RUNS AS SHOWN ON SHOP DRAWINGS WITHOUT PRIOR APPROVAL FROM SYSTEM SUPPLIER. FACTORS SUCH AS EXCESSIVE VOLTAGE DROP, ADDITIONAL PARTS, ENGINEERING, ETC., THAT ARE A RESULT OF CONDUIT RUN DEVIATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
9. AREA DETECTORS SHALL NOT BE LOCATED IN A DIRECT AIR-FLOW, NOR CLOSER THAN 5 FEET FROM AN AIR SUPPLY DIFFUSER.
10. ALL FAN SHUTDOWN FUNCTIONS, DAMPER CLOSURES AND ASSOCIATED MECHANICAL SYSTEM FIRE ALARM INTERFACE SHALL BE BY MECHANICAL CONTRACTOR. FIRE ALARM CONTRACTOR WILL PROVIDE OPEN CONTACT ON ALARM WITHIN THREE FEET OF THE STARTER.
11. ALL CONDUITS ARE 3/4" UNLESS OTHERWISE NOTED.
12. ALL 120VAC POWER REQUIREMENTS FOR THE FIRE ALARM SYSTEM SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR AND SHALL MEET ALL REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
13. ALL FIRE ALARM DEVICE BACKBOXES, FIRE ALARM TERMINAL CABINETS, GUTTERS, JUNCTION BOXES AND ASSOCIATED CONDUITS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. REFER TO FIRE ALARM SYMBOL LIST AND/OR MOUNTING DETAILS FOR ADDITIONAL INFORMATION. SYSTEM SUPPLIER PROVIDED BACKBOXES SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
14. SMOKE DETECTOR TESTING SHALL BE IN ACCORDANCE WITH NFPA 72 SECTION 7.5.4.
15. ALL WIRING SHALL BE CUT FOR IN AND OUT. WIRING SHALL NOT BE LOOPED THROUGH DEVICES.
16. POINT AND COMMON ANNUNCIATION AND T-TAPPING ARE PROHIBITED. (T-TAPPING IS ALLOWABLE ON STYLE 4 SLC LOOPS WHERE TAPS ARE LOCATED IN METALLIC JUNCTION BOXES).
17. PROVIDE 3/4" CONDUIT FROM FIRE ALARM CONTROL PANEL TO TELEPHONE BACKBOARD AND WIRELESS DACT TRANSMITTER FOR OWNER PROVIDED CENTRAL STATION MONITORING VIA TELEPHONE LINES.
18. COORDINATE EXACT QUANTITY OF FLOW AND TAMPER SWITCHES WITH FIRE PROTECTION SHOP DRAWINGS PRIOR TO ROUGH-IN.
19. FA NOTIFICATION DEVICE SPACING IS SHOWN ONLY FOR DESIGN PURPOSES. FIRE ALARM CONTRACTOR SHALL LOCATE DEVICES BASED ON THE LISTED COVERAGE OF THE SELECTED DEVICE AND ADJUST FIRE ALARM SHOP DRAWINGS AS NEEDED..
20. PROVIDE BATTERY CALCULATIONS AND VOLTAGE DROP CALCULATIONS FOR AUTHORITY HAVING JURISDICTION (AHJ).
21. BUILDING IS FULLY SPRINKLERED, SO AREA DETECTION IS NOT PROVIDED IN STORAGE ROOMS. HOWEVER, THE DETECTORS HAVE BEEN PROVIDED IN LOCATIONS WHERE THERE WILL BE SPECIALTY EQUIPMENT/CHEMICALS STORED.



OVERALL FIRST FLOOR PLAN - FIRE ALARM 1/8" = 1'-0" (1)

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PROJECT NAME

RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION

1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

1007657.00

SHEET TITLE

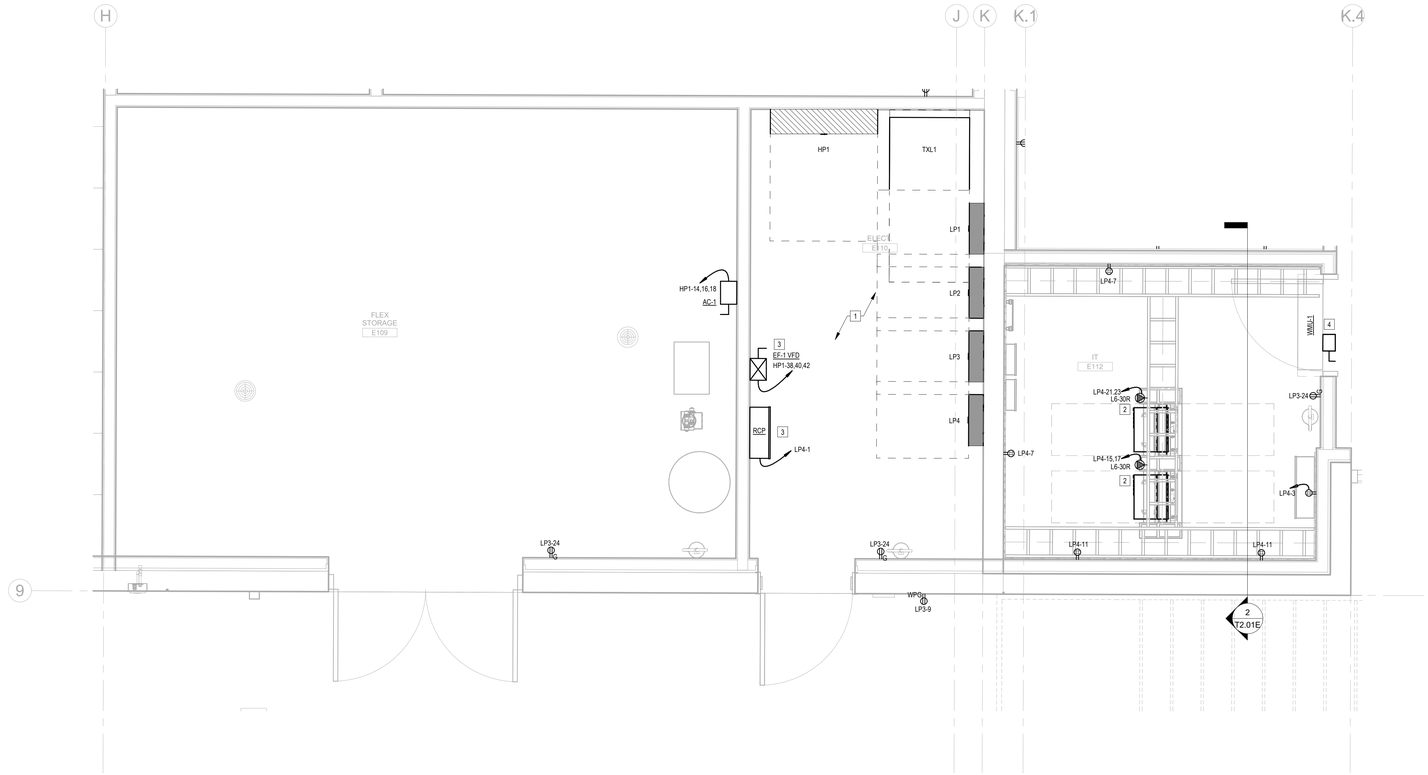
FLOOR PLAN - EVIDENCE/FIRING RANGE - FIRE ALARM

SHEET NUMBER

E3.01E

KEYNOTES:

1. THE ELECTRICAL CONTRACTOR SHALL SUBMIT A SHOP DRAWING OF DEPICTING THE LOCATION OF ALL ELECTRICAL SWITCHGEAR/EQUIPMENT SHOWING THAT CODE REQUIRED CLEARANCES ARE MAINTAINED.
2. PROVIDE L6-30R RECEPTACLE ABOVE DATA CABINET. MOUNT RECEPTACLE TO LADDER RACK OR PROVIDE UNISTRUT FOR MOUNTING OF RECEPTACLE. COORDINATE FINAL CONNECTION REQUIREMENTS WITH CITY OF RIVIERA BEACH I.T. TEAM PRIOR TO ROUGH-IN.
3. FIRING RANGE MECHANICAL EQUIPMENT CONTROL PANELS BY OTHERS. COORDINATE FINAL LOCATION WITH OTHER TRADES PRIOR TO ROUGH-IN.
4. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT. PROVIDED STRANDED WIRING BACK TO OUTDOOR UNIT PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.



1 ENLARGED MEP ROOMS
1/2" = 1'-0"

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RBPS EVIDENCE & FIRE RANGE BUILDING

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1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

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1007657.00

SHEET TITLE
ENLARGED PLANS - ELECTRICAL

SHEET NUMBER
E4.01E

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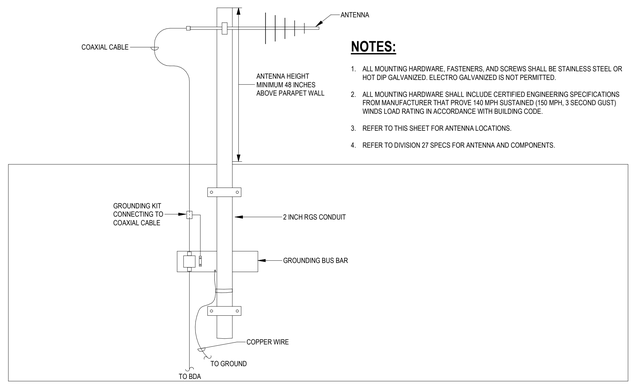
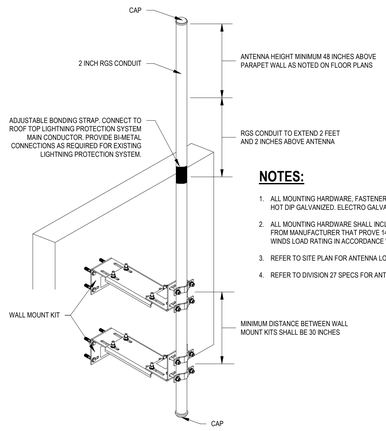


NOTES:

1. ALL MOUNTING HARDWARE, FASTENERS, AND SCREWS SHALL BE STAINLESS STEEL OR HOT DIP GALVANIZED. ELECTRO GALVANIZED IS NOT PERMITTED.
2. ALL MOUNTING HARDWARE SHALL INCLUDE CERTIFIED ENGINEERING SPECIFICATIONS FROM MANUFACTURER THAT PROVE 140 MPH SUSTAINED (150 MPH, 3 SECOND GUST) WINDS LOAD RATING IN ACCORDANCE WITH BUILDING CODE..
3. REFER TO THIS SHEET FOR ANTENNA LOCATIONS.
4. REFER TO DIVISION 27 SPECS FOR ANTENNA AND COMPONENTS.

2 TYPICAL 400/700-800 MHZ ANTENNA - EXTERIOR - WALL MOUNTED
NTS



NOTES:

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2. ALL MOUNTING HARDWARE SHALL INCLUDE CERTIFIED ENGINEERING SPECIFICATIONS FROM MANUFACTURER THAT PROVE 140 MPH SUSTAINED (150 MPH, 3 SECOND GUST) WINDS LOAD RATING IN ACCORDANCE WITH BUILDING CODE.
3. REFER TO SITE PLAN FOR ANTENNA LOCATIONS.
4. REFER TO DIVISION 27 SPECS FOR ANTENNA AND COMPONENTS.

1 TYPICAL 400/700-800 MHZ ANTENNA - EXTERIOR - WALL MOUNTED
NTS

LIGHTNING PROTECTION SYSTEM

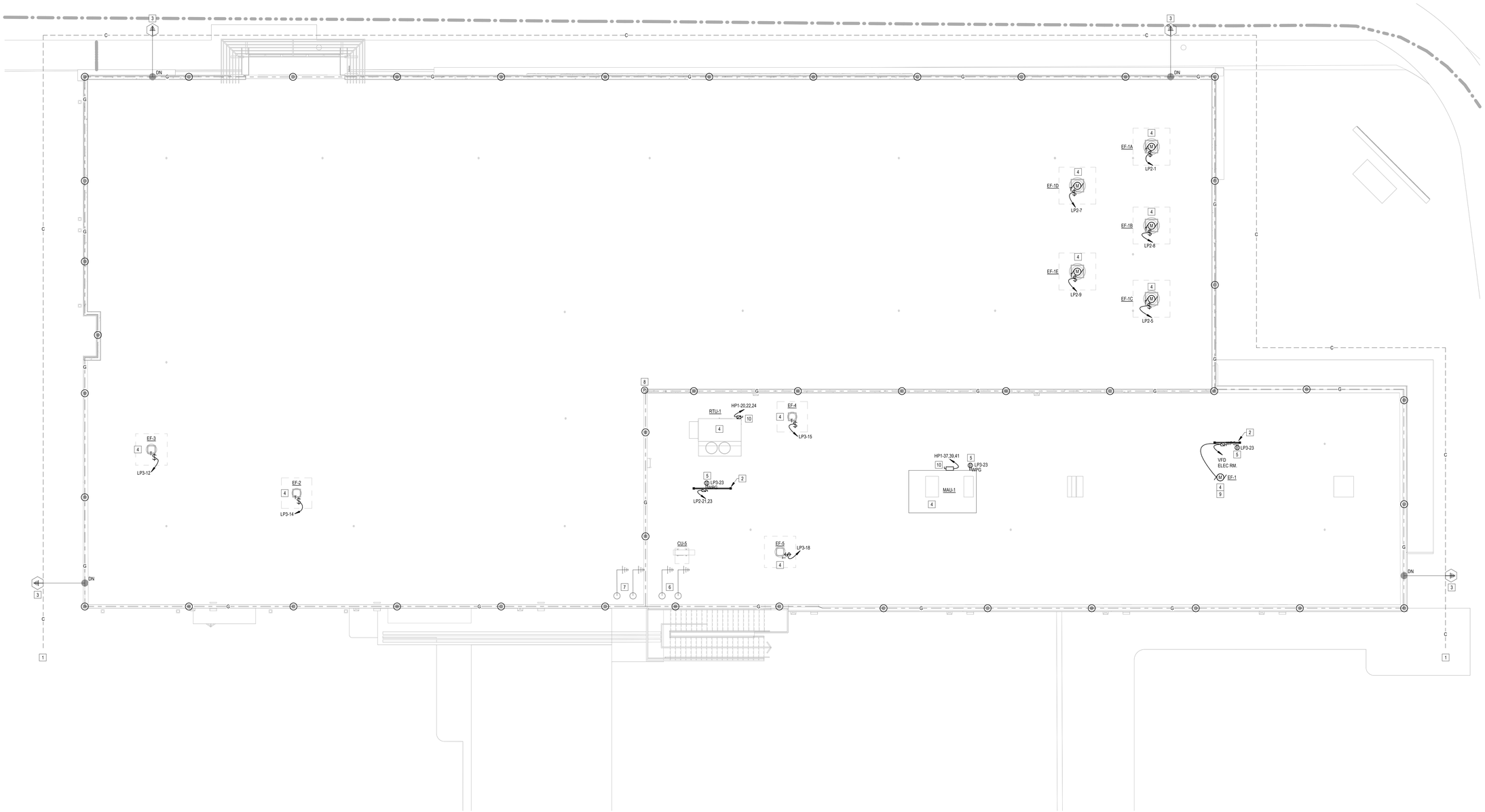
- C — COUNTERPOISE CONDUCTOR - CABLE SIZED PER NFPA 780
- G — MAIN L.P. CONDUCTOR - CABLE SIZED PER NFPA 780
- B — BONDING CONDUCTOR - CABLE SIZED PER NFPA 780
- AIR TERMINAL
  * (A) FLAT SURFACE BASE
  (B) FLAT WALL MOUNTED PARAPET
  (C) SWIVEL BASE
  (D) RIDGE SADDLE BASE (EXPOSED)
  (E) RIDGE SADDLE BASE (CONCEALED)
  (F) CONCEALED AIR TERMINAL BASE ASSEMBLY
- MECHANICAL OR EXOTHERMIC BOND
- EXOTHERMIC TEE CONNECTION
- DN — DOWN CONDUCTOR LOCATION

GENERAL NOTES:

1. EXTEND COUNTERPOISE SYSTEM TO ADMIN BUILDING.
2. PROVIDE UNISTRUT FRAME FOR MOUNTING OF ELECTRICAL EQUIPMENT TO SERVE ROOF MOUNTED EQUIPMENT. COORDINATE FINAL LOCATION WITH OTHER TRADES AND ROOFING CONTRACTOR PRIOR TO ROUGH-IN.
3. PROVIDE GROUND INSPECTION WELL.
4. BOND TO ALL MECHANICAL EQUIPMENT, DRAINS...ETC LOCATED ON ROOF.
5. PROVIDE LOCKABLE DIE-CAST IN-USE ALUMINUM COVER. (TYPICAL FOR ALL EXTERIOR WP/G RECEPTACLES)
   BOD: INTERMATIC WP1250MVXD
6. PROVIDE (2) 2" RGS CONDUITS WITH WEATHER HEADS FOR FUTURE USE. TERMINATE IN CONDUITS ABOVE IT ROOM.
7. PROVIDE (2) 2" RGS CONDUITS WITH WEATHER HEADS FOR FUTURE USE. TERMINATE IN CONDUITS ABOVE ELECTRICAL ROOM.
8. COORDINATE FINAL LOCATION OF LIGHTING PHOTOCELL ON ROOF WITH OTHER TRADES PRIOR TO ROUGH-IN.
9. PROVIDE POWER CONNECTION TO EXHAUST FAN. DISCONNECT SWITCH PROVIDED BY MECHANICAL CONTRACTOR. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
10. DISCONNECT SWITCH PROVIDED BY EQUIPMENT MANUFACTURER. SHOWN FOR DESIGN PURPOSES ONLY.

GENERAL NOTES:

1. PROVIDE A COMPLETE LIGHTNING PROTECTION SYSTEM PER CURRENT NFPA 780 AND UL96A STANDARDS.
2. THIS LIGHTNING PROTECTION DRAWING IS FOR DIAGRAMMATIC PURPOSES ONLY. SHOP DRAWINGS ISSUED BY A CERTIFIED LIGHTNING PROTECTION CONTRACTOR SHALL BE USED FOR BIDDING PURPOSES AND SHALL TAKE PRECEDENCE.
3. THE COMPLETED INSTALLATION SHALL MEET THE INSTALLATION REQUIREMENTS FOR LIGHTNING PROTECTION SYSTEMS, UL96A OF UNDERWRITERS LABORATORIES - LATEST EDITION. THE UL MASTER LABEL SHALL BE FURNISHED TO THE OWNER UPON COMPLETION.
4. COPPER LIGHTNING PROTECTION SYSTEM COMPONENTS SHALL NOT BE MOUNTED ON ALUMINUM ROOF OR SIDING OR OTHER ALUMINUM SURFACES AND VICE VERSA.
5. METAL BODIES WITHIN 6'-0" OF THE LIGHTNING PROTECTION SYSTEM SHALL BE BONDED TO THE SYSTEM IN ACCORDANCE WITH UL96A - LATEST EDITION.
6. UNDERGROUND METALLIC PIPING ENTERING THE BUILDING SHALL BE BONDED TO THE NEAREST DOWN CONDUCTOR OR GROUND ELECTRODE.
7. ADHESIVE USED WITH ADHESIVE AIR TERMINAL BASES AND CONDUCTOR FASTENERS SHALL BE COMPATIBLE WITH ROOFING MEMBRANE - VERIFY WITH ROOFING CONTRACTOR.
8. ROOF TOP EQUIPMENT NOT SHOWN ON THIS DRAWING SHALL BE PROTECTED AS REQUIRED TO MEET THE REQUIREMENTS LISTED ABOVE INCLUDING THE INSTALLATION OF AIR TERMINALS AND OR BONDING. IF THE METAL THICKNESS OF AN OBJECT IS 3/16" OR GREATER, AIR TERMINALS MAY BE ELIMINATED IF THE OBJECT IS PROPERLY CONNECTED TO THE SYSTEM.
9. THE DESIGNS SHOWN FOR THESE SYSTEMS ARE SCHEMATIC AND ARE INTENDED TO SHOW BASIC SYSTEM DESIGN. CONTRACTOR SHALL VERIFY DIMENSIONS AND SITE CONDITIONS AND PROVIDE SYSTEMS THAT COMPLY WITH CODE REQUIREMENTS.
10. ALL LIGHTNING CONDUCTORS ARE TO MAINTAIN A HORIZONTAL OR DOWNWARD PATH. ALL BENDS IN THE CONDUCTOR SHALL HAVE A RADIUS BEND OF 8" OR GREATER, AND SHALL HAVE AN ANGLE BEND OF 90 DEGREES OR GREATER.
11. ALL LIGHTNING PROTECTION CONDUCTORS SHALL BE FASTENED NOT MORE THAN 3' MAXIMUM SPACING.
12. COORDINATE ROOF PENETRATIONS WITH ROOFING CONTRACTOR TO MAINTAIN ROOFING SYSTEM INTEGRITY AND WARRANTY.



OVERALL ROOF PLAN - ELECTRICAL 1/8" = 1'-0" 32

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PROJECT STATUS
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PROJECT NAME
RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

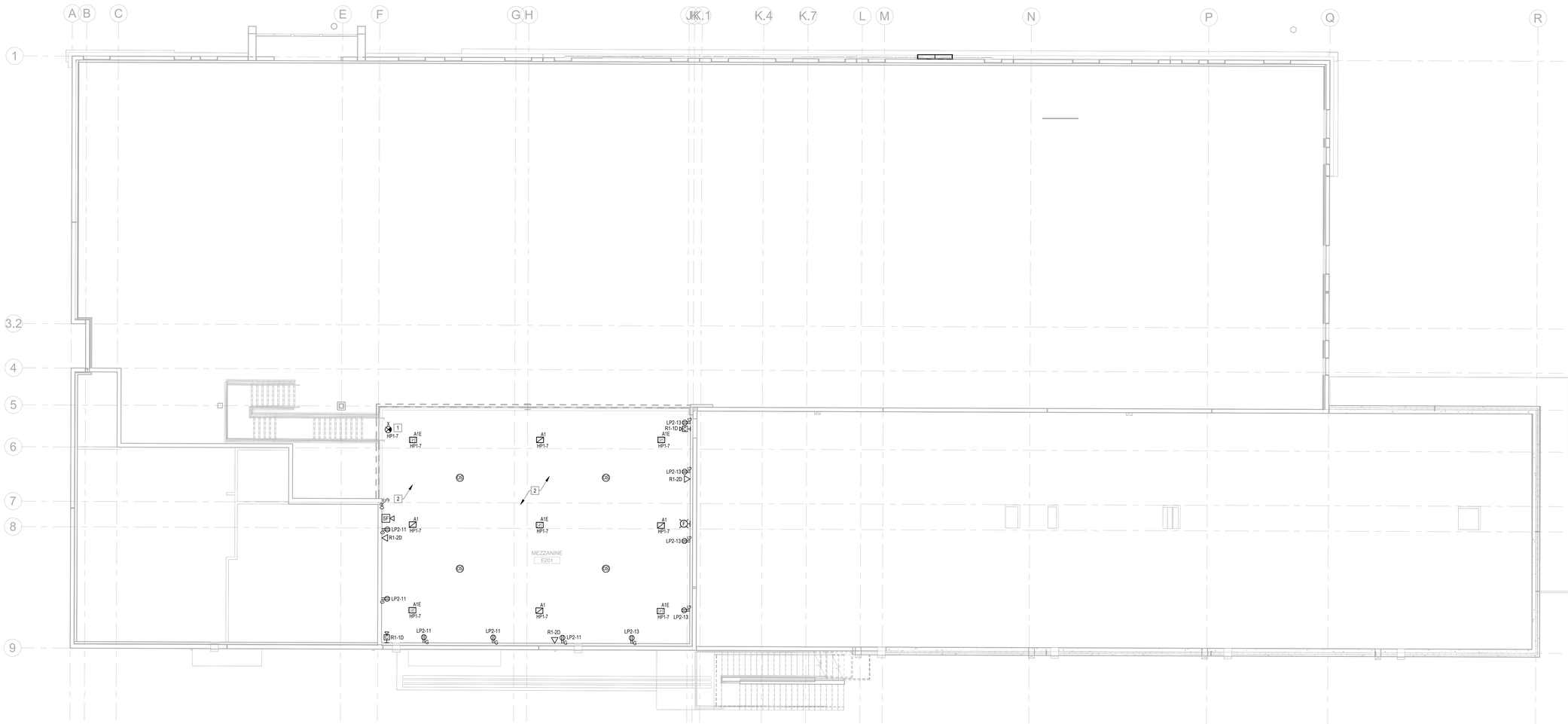
SHEET TITLE
ROOF PLAN - EVIDENCE/FIRING RANGE - ELECTRICAL

SHEET NUMBER
E4.02E

KEYNOTES:

1 WIRE ALL EXIT LUMINAIRES AHEAD OF ALL SWITCHING. (TYPICAL)

2 MEZZANINE HIGHBAY LUMINAIRES CONTROLLED VIA OCCUPANCY SENSOR WITH OVERRIDE SWITCHES.



MEZZANINE PLAN - ELECTRICAL 1/8" = 1'-0" (1)

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SHEET TITLE

MEZZANINE PLAN - EVIDENCE/FIRING RANGE - ELECTRICAL

SHEET NUMBER

E4.03E

DRY-TYPE TRANSFORMER SCHEDULE

480V/3-3φ-3W				208Y/120V-3φ-4W				
MK.	LOAD	OCPD	FEEDER	LOAD	OCPD	FEEDER		GND
A	112.5kVA/135A	175A	(3) #4/0 AWG AL, (1) #4 AL GND, 2"C.	112.5kVA/312A	400A	(2) SETS OF (4) #250 KCMIL AL, (1) #1/0 AL GND, 3"C.		#1/0 AL, 1" PVC

GENERAL NOTES:

1. ANY TRANSFORMER WIRE SIZES LISTED ON THE ONE-LINE DIAGRAM SHALL TAKE PRECEDENCE.
2. SECONDARY OVERCURRENT PROTECTION SHALL BE LOCATED WITHIN TEN FEET OF THE TRANSFORMER SECONDARY TERMINALS.
3. 500 KCMIL AND LARGER CONDUCTORS SHALL BE COORDINATED WITH PROPER TERMINATION LUGS OR PROVIDED WITH ADAPTERS AS REQUIRED TO COORDINATE WITH STANDARD BREAKER LUG SIZES.
4. THE TRANSFORMER GROUNDING ELECTRODE CONDUCTOR SHALL CONNECT FROM THE TRANSFORMER NEUTRAL AND TRANSFORMER EQUIPMENT GROUND TO THE COLD WATER LINE, BUILDING STEEL, REBAR AND GROUND ROD WHERE AVAILABLE PER NEC AND LOCAL AUTHORITY HAVING JURISDICTION.
5. TRANSFORMER SYSTEM BONDING JUMPER RUN FROM TRANSFORMER NEUTRAL TO PANEL GROUND BAR SHALL BE SIZED PER TABLE 250-66 BASED ON FEEDER CONDUCTOR SIZE PER NEC 250.30(A) (1) & 250.28 (D).
6. ALL FLOOR MOUNTED TRANSFORMERS SHALL BE PROVIDED WITH A 4" CONCERETE HOUSE KEEPING PAD.

FEEDER SCHEDULE

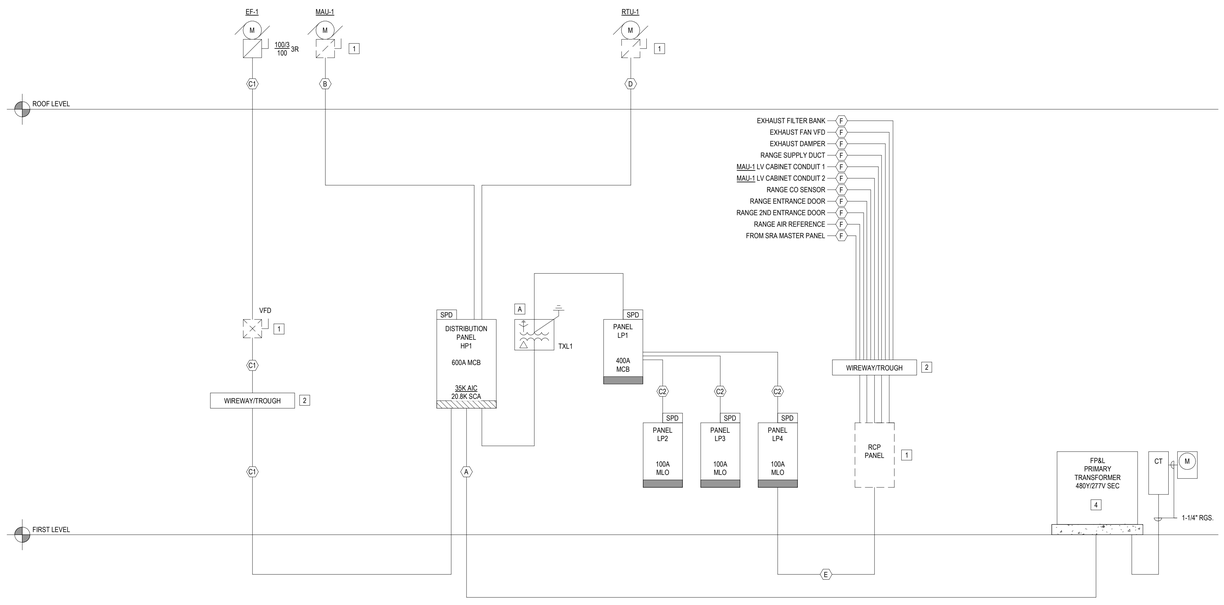
MARK	OCPD	CONDUCTOR SIZE	RACEWAY
(A)	600A	(2) SETS OF (4) #350 KCMIL AL.	3-1/2" EA. + (1) 3-1/2" SPARE
(B)	150A	(3) #3/0 AWG AL, (1) #4 AL GND.	2".
(C1)	100A	(3) #1 AWG AL, (1) #6 AL GND.	1-1/2".
(C2)	100A	(4) #1 AWG AL, (1) #6 AL GND.	1".
(D)	60A	(3) #6 AWG CU, (1) #10 CU GND.	1".
(E)	15A	(2) #12 AWG CU, (1) #12 CU GND.	3/4".
(F)		LV CONTROL CABLING BY OTHERS.	3/4".

GENERAL NOTES:

1. BASIS OF DESIGN FOR POWER DISTRIBUTION EQUIPMENT IS SQUARE-D. IF CONTRACTOR SUBMITS APPROVED ALTERNATES, CONTRACTOR SHALL VERIFY EQUIPMENT DIMENSIONS MEET CLEARANCE REQUIREMENTS.
2. BASIS OF DESIGN FOR GENERATOR IS GENERAC. IF CONTRACTOR SUBMITS APPROVED ALTERNATES, CONTRACTOR SHALL VERIFY EQUIPMENT DIMENSIONS MEET CLEARANCE REQUIREMENTS.
3. BASIS OF DESIGN FOR TRANSFER SWITCHES IS ASCO. IF CONTRACTOR SUBMITS APPROVED ALTERNATES, CONTRACTOR SHALL VERIFY EQUIPMENT DIMENSIONS MEET CLEARANCE REQUIREMENTS.
4. PROVIDE FIELD MARKING OF THE MAXIMUM AVAILABLE FAULT CURRENT AT THE SERVICE EQUIPMENT PER NEC 110.24. FIELD MARKING SHALL BE LEGIBLE AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.
5. SERVICE TRANSFORMER PROVIDED BY FLORIDA POWER AND LIGHT. CONCRETE PAD SHALL BE PROVIDED BY CONTRACTOR. COORDINATE PAD SIZE AND OTHER REQUIREMENTS WITH THE UTILITY. COORDINATE ELECTRICAL SERVICE WITH THE UTILITY PROVIDER PRIOR TO START OF ANY WORK.
6. ALL DISTRIBUTION PANELS & PANELBOARDS SHALL BE FULLY RATED.
7. PROVIDE ARC FLASH HAZARD LABELS ON ALL DISTRIBUTION PANELS & PANELBOARDS IN ACCORDANCE WITH NFPA 70E 130.5(D).
8. PERFORM SHORT-CIRCUIT AND COORDINATION STUDY. SET THE FIELD ADJUSTABLE CIRCUIT BREAKERS TRIP RANGES. ELECTRICAL CONTRACTOR SHALL HIRE THE MANUFACTURER OF THE POWER DISTRIBUTION SYSTEM TO SET TIME CURRENT CURVES ON THE MAIN CIRCUIT BREAKER AND ASSOCIATED BRANCH CIRCUIT BREAKERS FOR THE MAIN DISTRIBUTION PANELS & PANELBOARDS SO THAT THEY ARE SELECTIVELY COORDINATED WITH EACH OTHER. THE INTERRUPTING RATING OF ALL ELECTRICAL EQUIPMENTS SHALL BE BASED ON THE DATA RESULTS FROM THE SHORT-CIRCUIT & COORDINATION STUDY
9. GENERATOR SHALL BE IN ACCORDANCE WITH NFPA 37, 70, 110 AND CAPABLE OF TRANSFERRING POWER WITHIN 10 SECONDS.
10. 500 KCMIL AND LARGER CONDUCTORS SHALL BE COORDINATED WITH PROPER TERMINATION LUGS OR PROVIDED WITH ADAPTERS AS REQUIRED BY SWITCHGEAR MAUFACTURER TO COORDINATE WITH STANDARD BREAKER LUG SIZES.
11. ALL FLOOR MOUNTED GENERATORS, SWITCHBOARDS, PANELBOARDS AND TRANSFORMERS SHALL BE PROVIDED WITH 4" CONCRETE HOUSE KEEPING PAD.

KEYNOTES:

1. BY EQUIPMENT MANUFACTURER. SHOWN FOR COORDINATION PURPOSES ONLY.
2. EC TO PROVIDE WIREWAY/TROUGH. COORDINATE FINAL SIZE AND CONNECTION REQUIREMENTS WITH FIRING RANGE MANUFACTUER AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
3. EC TO PROVIDE A DEDICATED RACEWAY FROM RECIRCULATION VENTILATION CONTROL PANEL (RCP) TO EQUIPMENT LISTED. COORDINATE FINAL CONNECTION REQUIREMENTS WITH FIRING RANGE MANUFACTURER AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
4. UTILITY TRANSFORMER SECONDARY SERVICES ARE DIAGRAMMATIC ONLY. EC SHALL COORDINATE INCOMING SERVICES FROM UTILITY TRANSFORMER(S) WITH FPL PRIOR TO THE START OF ANY UNDERGROUND WORK.



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DRAWING HISTORY

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A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

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PROJECT STATUS

90% CONSTRUCTION DOCUMENTS/PERMIT SET

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PROJECT NAME

RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION

1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

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SHEET TITLE

RISER DIAGRAM - ELECTRICAL

SHEET NUMBER

E5.01E

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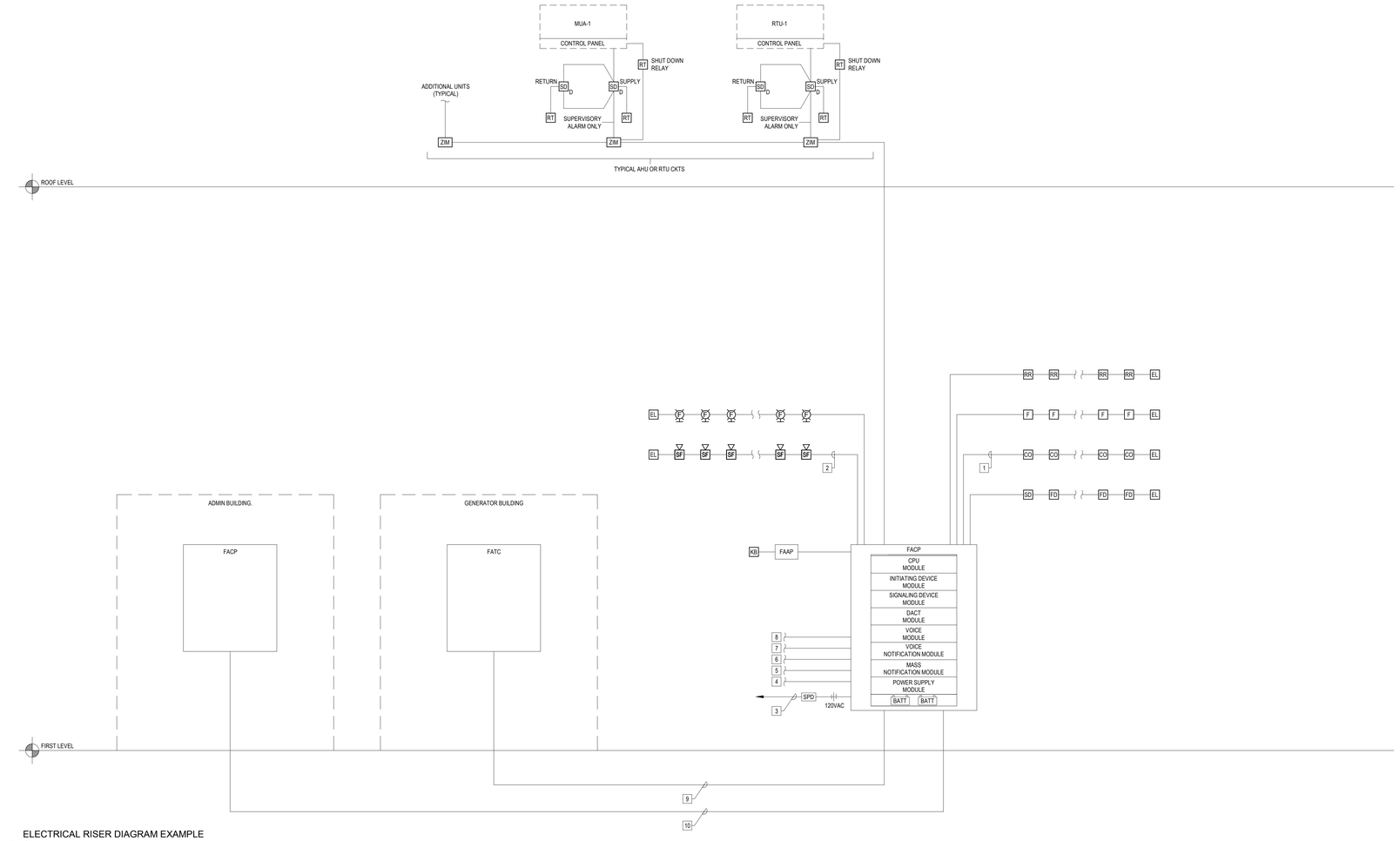

ELECTRICAL RISER DIAGRAM EXAMPLE
1
NTS

KEYNOTES:

1. 3/4" C., WITH INITIATING DEVICE CIRCUIT WIRING AS REQUIRED BY THE SYSTEM MANUFACTURER. (TYP).
2. 3/4" C., WITH NOTIFICATION APPLIANCE CIRCUIT WIRING AS REQUIRED BY THE SYSTEM MANUFACTURER. (TYP)
3. 3/4"C., 2 #12 & 1 #12 GND HOMERUN TO PANELBOARD. CIRCUIT BREAKER SHALL BE PROVIDED WITH "RED" OPERATING HANDLE AND A "LOCK-ON" DEVICE.
4. PROVIDE 1" CONDUIT FOR DACT CIRCUIT CABLING.
5. PROVIDE 1" CONDUIT FOR INTEGRATION WITH OWNER'S ACCESS CONTROL SYSTEM. COORDINATE WITH OWNER & ARCHITECT.
6. PROVIDE 1" CONDUIT FOR INTEGRATION WITH OWNER BDA/ERCES SYSTEM. COORDINATE ADDITIONAL REQUIREMENTS WITH OWNER AND LOW VOLTAGE CONTRACTOR PRIOR TO ROUGH-IN.
7. 3/4" C. FOR CONNECTION TO WIRELESS DACT TRANSMITTER. COORDINATE ADDITIONAL REQUIREMENTS WITH OWNER AND AHJ PRIOR TO ROUGH-IN.
8. PROVIDE 1" CONDUIT TO LIGHTING CONTROL PANEL. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH EC PRIOR TO ROUGH-IN.
9. PROVIDE 1-1/4" CONDUIT FROM FIRE ALARM CONTROL PANEL TO GENERATOR BUILDING FIRE ALARM TERMINAL CABINET.
10. PROVIDE 1-1/4" CONDUIT FROM FIRE ALARM CONTROL PANEL TO ADMIN BUILDING.

FIRE ALARM GENERAL NOTES

NOTE: UNLESS OTHERWISE NOTED ON PLANS

1. ALL WIRING SHALL BE POWER LIMITED
2. SEPARATE ZONES & FUNCTIONS MAY BE RUN IN THE SAME CONDUIT.
3. INSTALLATION SHALL COMPLY WITH NFPA CODE'S EDITIONS AS PUBLISHED IN FAC 69A-60.
4. INSTALLATION SHALL COMPLY WITH FLORIDA FIRE PREVENTION CODE 2023 EDITION.
5. CONDUIT, AS APPLICABLE SHALL BE 3/4" MINIMUM, UNLESS NOTED OTHERWISE, WITH A MAXIMUM FILL OF 40%. COMPLY WITH NEC. CONDUIT, AS APPLICABLE SHALL BE 1" MINIMUM WITH A MAXIMUM FILL OF 40%. COMPLY WITH NEC FOR CONDUIT THAT IS RUN UNDERGROUND.
6. PROVIDE ACTUAL CONDUIT SIZE REQUIRED ON SHOP DRAWINGS.
7. WIRING SHALL BE MINIMUM SIZE #16 THHN CU.
8. ALL CONDUIT SHALL BE FURNISHED WITH NYLON PULL STRING.
9. ALL AHU SHUTDOWN DEVICES MUST BE LOCATED WITHIN THREE FEET OF THE AHU STARTER.
10. ALL CABLE SHALL HAVE ZONE NUMBER AT BOTH ENDS, AND ALL RETURN CABLE SHALL BE TAPED.
11. SYSTEM SHALL BE GROUNDED PER MANUFACTURERS SPECIFICATIONS.
12. SYSTEM COMPONENTS SHALL BE UL LISTED AND COMPATIBLE.
13. SMOKE DETECTORS SHALL NOT BE LOCATED WITHIN 3' OF A/C DIFFUSERS.
14. CIRCUITS LEAVING THE BUILDING MUST HAVE SURGE PROTECTION INSTALLED. SURGE PROTECTION TO BE PROVIDED FOR 120VAC POWER, AND TELEPHONE CONNECTIONS TO FIRE ALARM.
15. FIRE ALARM PANEL & ANY ASSOCIATED FIRE ALARM EQUIPMENT MUST BE FED WITH A 120VAC, SINGLE PHASE, 20 AMP, DEDICATED BREAKER LOCKED AND MARKED.
16. SPEAKERS TO SOUND AN AUTOMATIC PRE-RECORDED MESSAGE.
17. STROBES TO BE SYNCHRONIZED.

IT SHALL BE UNDERSTOOD THAT THE CONDUIT SHOWN ON THESE DRAWINGS ARE DRAWN DIAGRAMMATICALLY. DUE TO UNKNOWN FIELD CONDITIONS CONDUIT ROUTING MAY BE INSTALLED DIFFERENTLY THAN SHOWN. WORST CASE SCENARIOS WERE CONSIDERED WHEN CALCULATING THE VOLTAGE DROPS AND CURRENT LIMITATIONS DURING THE DESIGN PROCESS. LUMP SUM METHOD WAS USED TO CALCULATE ALLOWABLE VOLTAGE DROP. THIS METHOD ALLOWS FOR A SMALL MARGIN OF SAFETY, TAKING INTO CONSIDERATION THE ACTUAL INSTALLED CIRCUIT ROUTING MAY DIFFER FROM WHAT IS SHOWN ON THE SHOP DRAWINGS.

SEQUENCE OF OPERATIONS

UPON ACTIVATION OF ANY MANUAL STATION THE FOLLOWING SHALL OCCUR:

1. ALL SPEAKERS WILL SOUND AN AUTOMATIC PRE-RECORDED MESSAGE UNTIL SYSTEM IS SILENCED.
2. ALL STROBES WILL FLASH UNTIL SYSTEM IS SILENCED.
3. AN ALARM SIGNAL SHALL BE SENT TO THE FACP. DISPLAY SYSTEM POINT NUMBER, AND POINT DESCRIPTION.
4. A SIGNAL SHALL BE SENT TO THE REMOTE SUPERVISING STATION VIA DACT.

UPON ACTIVATION OF ANY AUTOMATIC DEVICE THE FOLLOWING SHALL OCCUR:

1. ALL SPEAKERS WILL SOUND AN AUTOMATIC PRE-RECORDED MESSAGE UNTIL SYSTEM IS SILENCED.
2. ALL STROBES WILL FLASH UNTIL SYSTEM IS SILENCED.
3. AN ALARM SIGNAL SHALL BE SENT TO THE FACP. DISPLAY SYSTEM POINT NUMBER, AND POINT DESCRIPTION.
4. A SIGNAL SHALL BE SENT TO THE REMOTE SUPERVISING STATION VIA DACT.

UPON ACTIVATION OF A DUCT SMOKE DETECTOR, THE FOLLOWING SHALL OCCUR:

1. ALL SPEAKERS WILL SOUND AN AUTOMATIC PRE-RECORDED MESSAGE UNTIL SYSTEM IS SILENCED
2. ALL STROBES WILL FLASH UNTIL SYSTEM IS SILENCED.
3. A SUPERVISORY SIGNAL SHALL BE SENT TO THE FACP. DISPLAY SYSTEM POINT NUMBER, AND POINT DESCRIPTION.
4. SHUT DOWN ASSOCIATED AIR-HANDLING EQUIPMENT.
5. A SUPERVISORY SIGNAL SHALL BE SENT TO THE REMOTE SUPERVISING STATION VIA DACT.

UPON ACTIVATION OF A SPRINKLER SUPERVISORY DEVICE, THE FOLLOWING SHALL OCCUR:

1. A SUPERVISORY SIGNAL SHALL BE SENT TO THE FACP. DISPLAY SYSTEM PONT NUMBER AND POINT DESCRIPTION.
2. A SUPERVISORY SIGNAL SHALL BE SENT TO THE REMOTE SUPERVISING STATION VIA DACT.

UPON A TROUBLE CONDITION THE FOLLOWING SHALL OCCUR:

1. TROUBLE TONE SHALL SOUND AT FACP. DISPLAY DESCRIPTION OF TROUBLE CONDITION.
2. A TROUBLE SIGNAL SHALL BE SENT TO THE REMOTE SUPERVISING STATION VIA DACT.

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DRAWING HISTORY

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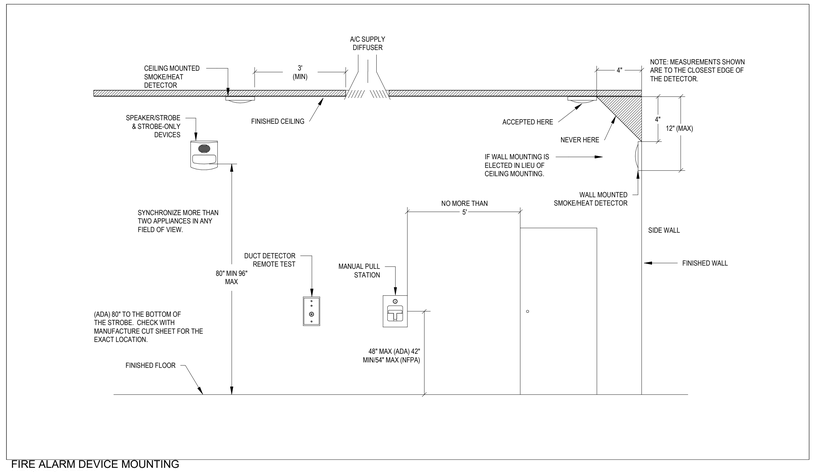
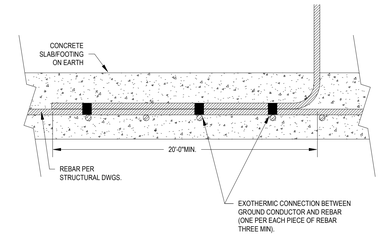


9 FIRE ALARM DEVICE MOUNTING HEIGHTS DETAIL
NTS



5 TYPICAL "UFER" GROUND
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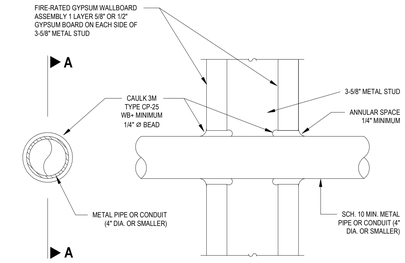

1 ONE HOUR FIREWALL PENETRATION DETAIL
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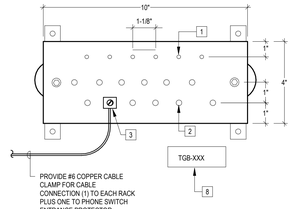
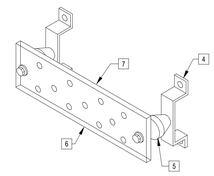


GENERAL:

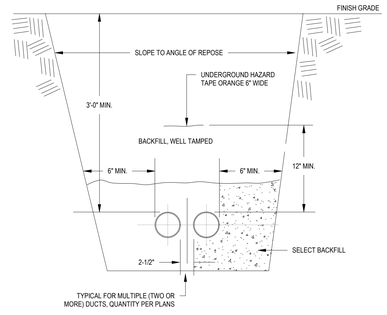
1. ALL HARDWARE (BOLTS, NUTS WASHERS, ETC.) SHALL BE SOLID COPPER OR BRONZE. COPPER PLATING SHALL NOT BE ACCEPTABLE.
2. BUSBAR SHALL BE 1/4" THICK(MINIMUM).
3. INCREASE LENGTH OF BUSBAR, FOR NUMBER OF CONNECTIONS, AS REQUIRED TO MAINTAIN CORRECT SPACING BETWEEN LUGS.



NOTE XX:

1. #6/32 (TYPICAL)
2. #9/32 (TYPICAL)
3. PROVIDE COPPER CABLE CLAMPS FOR CABLE CONNECTIONS (BY DIV.26).
4. STANDOFF BRACKET
5. INSULATOR
6. CADWELDS44A018 OR EQUAL
7. COPPER BUSBAR
8. PROVIDE WHITE CORE BAKELITE NAMEPLATE FASTENED TO A WALL/SURFACE BELOW BUSBAR AT EACH FLOOR, WITH DESIGNATION ENGRAVED THEREON IN 1/2" HIGH LETTERS.

6 TYPICAL GROUND BUS BAR DETAIL
NTS



2 TYPICAL TRENCH DETAIL
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10 FIRE ALARM WALL DEVICE MOUNTING DETAIL
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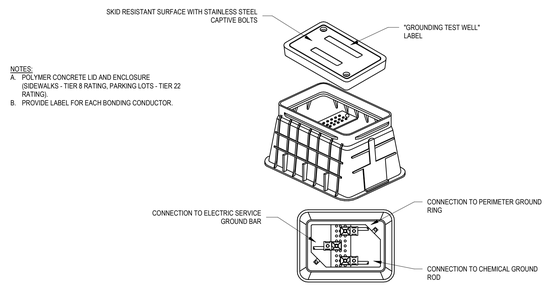
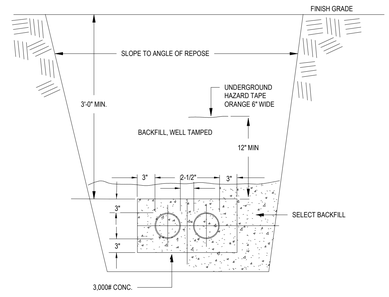


NOTES:
A. POLYMER CONCRETE LID AND ENCLOSURE (SIDEWALKS - TIER 8 RATING, PARKING LOTS - TIER 22 RATING).
B. PROVIDE LABEL FOR EACH BONDING CONDUCTOR.

7 GROUND INSPECTION WELL
NTS



3 TYPICAL ENCASED DUCT DETAIL
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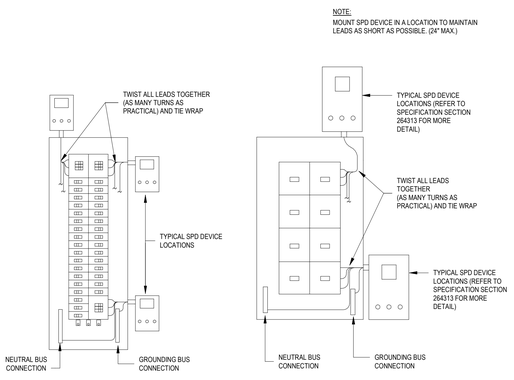

11 SPD INSTALLATION DETAIL
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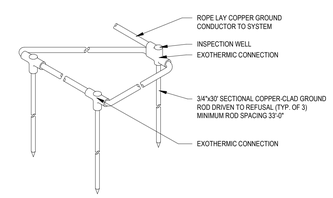

8 TYPICAL GROUND ARRAY DETAIL
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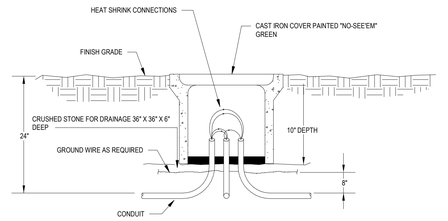
NOT PERMITTED IN SOUTH FLORIDA



4 SPLICE BOX SECTION
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PROJECT STATUS
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RBPS EVIDENCE & FIRE RANGE BUILDING

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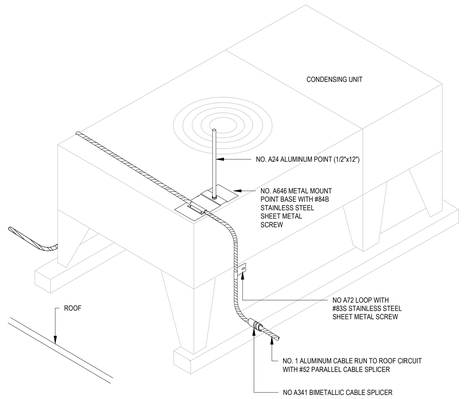
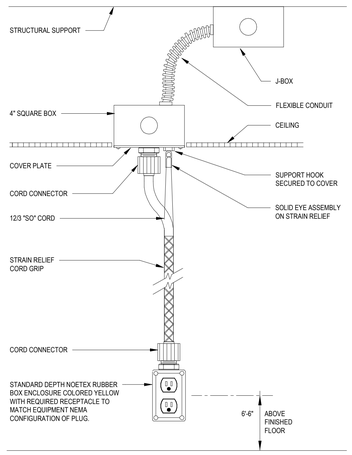


13 TYPICAL AIR TERMINAL ON MECHANICAL EQUIPMENT DETAIL
NTS



9 DROP CORD DETAIL
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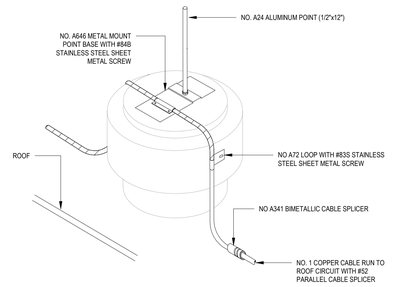

14 TYPICAL AIR TERMINAL ON EXHAUST EQUIPMENT DETAIL
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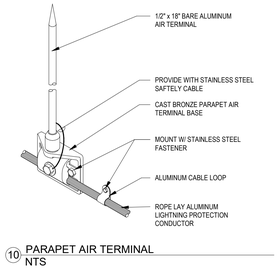

10 PARAPET AIR TERMINAL
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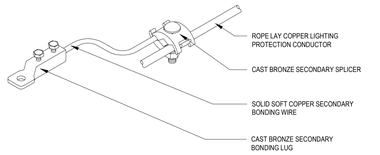

15 SECONDARY BONDING DETAIL
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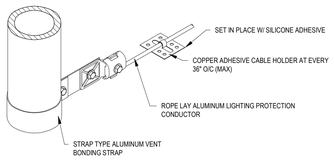
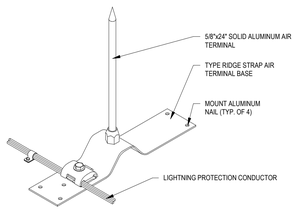
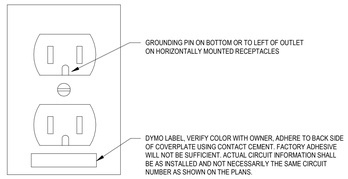


11 VENT BONDING DETAIL
NTS



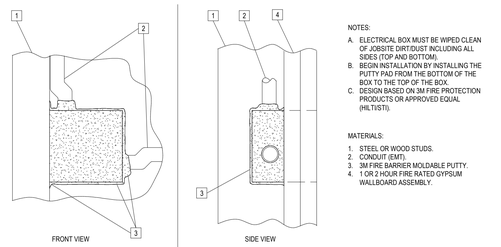
12 TYPICAL RIDGE DETAIL
NTS



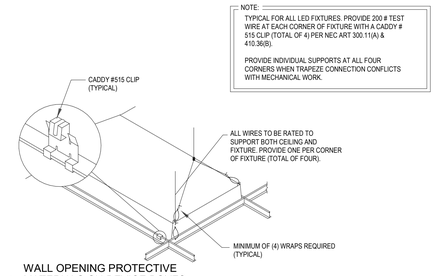
NOTES:

1. PROVIDE GREEN GROUND WIRE IN ALL RECEPTACLE CIRCUITS. CONNECT TO GROUND BUS IN PANEL
2. DO NOT INSTALL RECEPTACLES,COMPUTER OR TELEPHONE OUTLETS BACK TO BACK. INSTALL IN ADJACENT STUD CAVITIES, TO REDUCE SOUND TRANSMISSION.

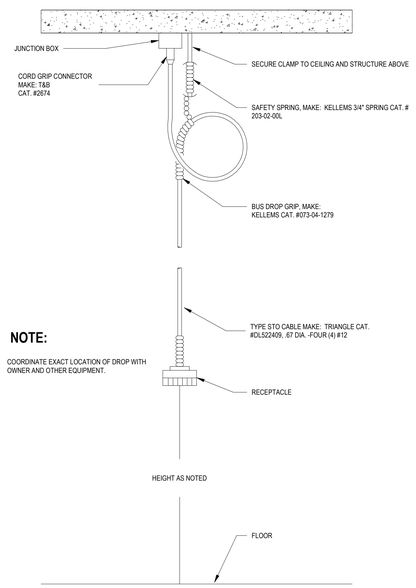
5 TYPICAL RECEPTACLE IDENTIFICATION
NTS



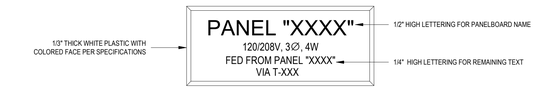
6 WALL OPENING PROTECTIVE MATERIALS ON DEVICE BOXES
NTS



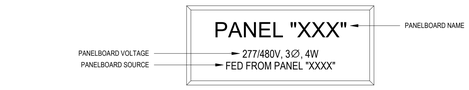
7 WALL OPENING PROTECTIVE MATERIALS ON DEVICE BOXES
NTS



8 PENDANT RECEPTACLE DETAIL
NTS

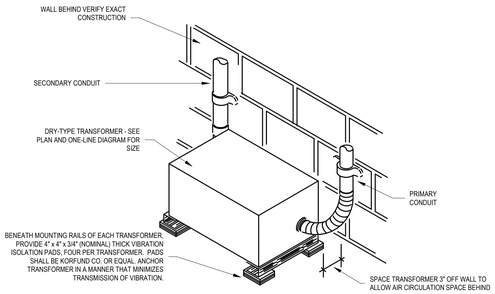


TYPICAL 120/208V PANELBOARD



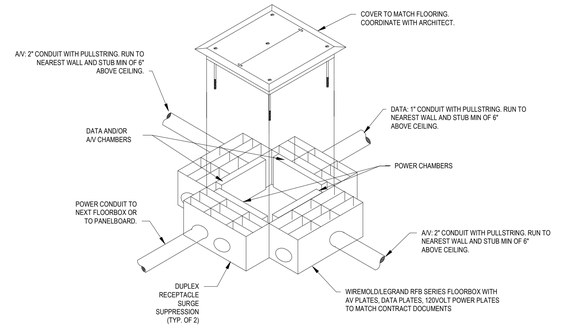
TYPICAL 277/480V PANELBOARD

1 PANELBOARD NAMEPLATE
NTS

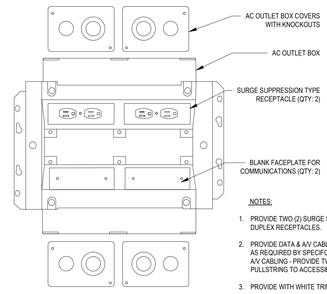


NOTES:
A. THE FINAL 12" TO 18" OF RACEWAY CONNECTION TO BOTH PRIMARY AND SECONDARY SIDES SHALL BE "SEALTITE" TYPE UA FLEXIBLE CONDUIT OR EQUAL, FOR VIBRATION ISOLATION.
B. ALL FLOOR - MOUNTED TRANSFORMERS 75KVA AND HIGHER TO HAVE A 4" HIGH REINFORCED CONCRETE PAD.

2 PANELBOARD NAMEPLATE
NTS



3 TYPICAL FLOOR BOX DETAIL
NTS



NOTES:
1. PROVIDE TWO (2) SURGE SUPPRESSION TYPE DUPLEX RECEPTACLES.
2. PROVIDE DATA & A/V CABLING AND COVER PLATES AS REQUIRED BY SPECIFICATION. FOR DATA AND A/V CABLING - PROVIDE TWO (2) 2" CONDUITS WITH PULLSTRING TO ACCESSIBLE CEILING SPACE.
3. PROVIDE WITH WHITE TRIM FLANGE AND COVER.
4. PROVIDE DIVIDER PLATE FOR SEPARATION OF 120V WIRING AND FUTURE COMMUNICATION WIRING.
5. PROVIDE ALL REQUIRED HARDWARE, MODULES, ETC. AS REQUIRED BY MANUFACTURER FOR COMPLETE SYSTEM.

4 TYPICAL WALL BOX DETAIL
NTS

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

ARCHITECT OF RECORD

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T 561 988 4002
www.pgal.com

CONSTRUCTION MANAGER/BUILDER

CORE CONSTRUCTION
1641 Worthington Rd
West Palm Beach
FL 33409

PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
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32750

REGISTRATION

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561.688.6575 | cmta.com

DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

PROJECT STATUS

90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION

1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

1007657.00

SHEET TITLE

DETAILS - ELECTRICAL

SHEET NUMBER

E6.02E

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/RBPD_Evidence and Firing Range_MEPF_R24.rvt
DATE STAMP: 10/23/2025 11:40:24 AM

UX-116.1.3	CONCRETE FOUNDATION CONSTRUCTION DETAILS FOR 750 TO 2,500 KVA 3 PHASE RADIAL AND LOOP TYPE PAD MOUNTED TRANSFORMER	UX-116.1.3

INSTALLATION GUIDELINES AND RESPONSIBILITIES

THE CUSTOMER SHALL:

1. MAINTAIN ACCESSIBILITY OF CONCRETE FOUNDATION FOR FPL VEHICLES AND EQUIPMENT.
2. INSTALL ALL PVC CONDUITS, AS SHOWN IN UX-116.1.1 FIGURE 1 AND FIGURE 2, BEFORE THE CONCRETE PAD IS POURED.
3. PROVIDE AND INSTALL REINFORCING MATERIAL PER UX-116.1.2 AND HAVE PAD INSPECTED BY FPL BEFORE THE CONCRETE IS POURED.
4. PROVIDE AND INSTALL DAYTON SUPERIOR THREADED INSERT 1/2" PART NO. F42-1/2" WITH PLUG ELECTRO-GALVANIZED, TWO(2) REQUIRED, SEE UX-116.1.1 FIGURE 1 AND DETAIL "A".
   DAYTON SUPERIOR NORTH OF WEST PALM IS 1-800-745-3710
   DAYTON SUPERIOR FOR EVERYWHERE ELSE IS 1-800-745-3702
5. INSTALL A 1-1/2" METERING CONDUIT TO A LOCATION SPECIFIED BY FPL, IF APPLICABLE.
   NOTE: THIS CONDUIT MUST BE IN ACCORDANCE WITH K-27.0.1 OF THE DISTRIBUTION CONSTRUCTION STANDARDS.
6. INSTALL SECONDARY CABLES NOT TO EXCEED THAT SPECIFIED IN TABLE ON UX-116.1.1 AND OF SUFFICIENT LENGTH TO TERMINATE IN SECONDARY BUS.
7. PROVIDE AND INSTALL C.T. METERING ENCLOSURES AT LOCATION SPECIFIED BY FPL, IF APPLICABLE.
8. PROVIDE AND MAINTAIN GALVANIZED TRAFFIC BARRIERS WHEN SPECIFIED BY FPL.

FPL SHALL:

1. PROVIDE FPL CONDUIT AND END PLUGS TO CUSTOMER.
2. INSPECT CUSTOMER'S REINFORCING MATERIALS BEFORE CONCRETE IS POURED INTO FORMED PAD.
3. INSTALL AND MAINTAIN THE PADMOUNTED TRANSFORMER AND THE SECONDARY BUS ENCLOSURE.
4. TERMINATE THE CUSTOMER'S SECONDARY CABLES TO THE TRANSFORMER BUS.
5. INSTALL C.T. WIRING AND METERING EQUIPMENT, IF APPLICATION.
6. CABLES REQUIRING CT METERING INSIDE THE TRANSFORMER MUST BE PLACED TOWARDS THE FRONT OPENING OF THE TX PAD AND IN FRONT OF ANY OTHER CABLES WHICH ARE NOT CT METERED INSIDE THE TRANSFORMER. THIS IS TO AVOID CABLE TRAINING ISSUES.

F P L
OH & UG DISTRIBUTION SYSTEM STANDARDS

ORIGINATOR: SMS — DRAWN BY: E. SCHILLING

NO.	DATE	REVISION	ORIG.	DRAWN	APPR.
2	1/28/16	UPDATE NOTES	ARR	ELS	RDH
1	8/20/08	UPDATE NOTE 5	JFD	ELS	JJM

DATE: — APPROVED: J.J. McEVOY — NO SCALE
SUPERVISOR, OH/UG PRODUCT SUPPORT SERVICES

UX-116.1.2	CONCRETE FOUNDATION CONSTRUCTION DETAILS FOR 750 TO 2,500 KVA 3 PHASE RADIAL AND LOOP TYPE PAD MOUNTED TRANSFORMERS	UX-116.1.2

REINFORCING MATERIALS

NOTES:

1. THE CONCRETE PAD SHALL BE 5.5 TO 6.0 INCHES THICK, IT SHOULD BE FORMED USING 1" X 6" FRAMING BOARDS.
2. THE #4 REINFORCING BARS AND THE WELDED WIRE MESH (6" X 6") MUST HAVE A 2" CONCRETE COVER FROM THE TOP AND SIDES OF THE PAD INCLUDING THE CABLE OPENING AREA. EXPOSED WIRE MESH SHALL NOT BE ACCEPTABLE.

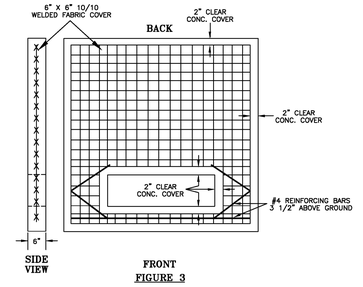


FIGURE 3

CONCRETE MIX SPECIFICATIONS

1. CONCRETE MIX PLACED IN PAD SHALL MEET THE FOLLOWING DESIGN REQUIREMENTS:
   A. MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,000 psi.
   B. MAXIMUM WATER/CEMENT RATIO OF 0.50.
   C. MAXIMUM SLUMP OF 4 INCHES.
   D. AIR-ENTRAINMENT CONTENT BETWEEN 4 AND 8 PERCENT.
2. CONCRETE SHALL BE AFFORDED ADEQUATE CURE FOR A MINIMUM OF 7 DAYS AT AN AVERAGE AMBIENT TEMPERATURE OF 70 DEGREES F. OR MORE.
3. PAD SHALL BE SUPPORTED ON NATURAL LEVELED GROUND WITH THE SUB-GRADE COMPACTED UNTIL IT IS UNIFORM. A MAXIMUM ALLOWABLE VARIATION BETWEEN ANT TWO POINTS ON THIS SURFACE IS 0.250 INCHES.

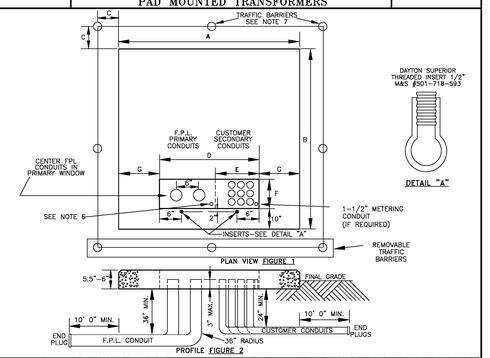
F P L
OH & UG DISTRIBUTION SYSTEM STANDARDS

ORIGINATOR: SMS — DRAWN BY: RAS

NO.	DATE	REVISION	ORIG.	DRAWN	APPR.

DATE: — APPROVED: J.J. MCEVOY — NO SCALE
SUPERVISOR, OH/UG PRODUCT SUPPORT SERVICES

UX-116.1.1	CONCRETE FOUNDATION CONSTRUCTION DETAILS FOR 750 TO 2,500KVA 3Ø RADIAL & LOOP TYPE PAD MOUNTED TRANSFORMERS	UX-116.1.1



PAD M&S NUMBER	WEIGHT	TRANSFORMER KVA	SECONDARY VOLTAGE	MAX. NUMBER OF CONDUCTORS & SIZE		MAX. NUMBER OF CONDUITS & SIZES	A	B	C	D	E	F	G
162-750-120	2,700LBS	750	277/480 V	8 SETS 8 SETS 6 SETS	SMALLER THAN 750 KCMIL 750KCMIL AL 750KCMIL CU*	8 – 5" MAX 8 – 5" MAX 6 – 5" MAX	78	78	18	60	25	21	9
162-750-120	2,700LBS	750	120/208 V	12 SETS 8 SETS 6 SETS	SMALLER THAN 750 KCMIL 750KCMIL AL 750KCMIL CU*	12 – 5" MAX 8 – 5" MAX 6 – 5" MAX	78	78	18	60	25	21	9
162-100-000	3,600LBS	1000	120/208 V OR 277/480 V	12 SETS 8 SETS 6 SETS	SMALLER THAN 750 KCMIL 750KCMIL AL 750KCMIL CU*	12 – 5" MAX 8 – 5" MAX 6 – 5" MAX	88	88	18	60	25	21	14
162-150-200	4,050LBS	1500-2000	277/480 V	12 SETS 8 SETS 6 SETS	SMALLER THAN 750 KCMIL 750KCMIL AL 750KCMIL CU*	12 – 5" MAX 8 – 5" MAX 6 – 5" MAX	94	94	18	64	26	21	15
162-250-025	5,050LBS	2500	277/480 V	12 SETS	750 KCMIL OR SMALLER*	12 – 5" MAX	106	106	18	66	28	26	20

NOTES:
1. FOR CONSTRUCTION DETAILS AND INSTALLATION GUIDELINES.
2. (*) CABLES LARGER THAN 500 CU WILL REQUIRE MULTITAP CONNECTORS 103-806-300 AND 103-806-400.
3. FOR ANY NEW INSTALLATION WHICH HAS MORE THAN 8 SETS OF 750 KCMIL CU OR MORE THAN 12 SETS OF A SMALLER SIZE CONDUCTOR, IT IS RECOMMENDED TO USE THE LARGE THREE -PHASE SECONDARY CABINET, M&S #161-401-003, AS SHOWN IN DCS 1-75.0.0.
4. #4 TYPE OF STEEL RE-BAR (1/2") ON ALL 4 CORNERS.
5. 6" X 6" WIRE MESH SURROUNDING ALL OPENINGS.
6. INSTALL 2" SLEEVE FOR GROUND ROD, 48" LONG.
7. FOR TRAFFIC BARRIERS INFORMATION REFER TO UN-21.0.0.
8. REFER TO 1-63.0.1 FOR ADDITIONAL DETAILS.
9. USE APPROVED TOOL M&S #594-106-003 FOR LIFTING AND HANDLING THESE PADS.
10. IF CT'S ARE REQUIRED, CABLES/CONDUITS REQUIRING CT METERING MUST BE PLACED TOWARDS THE FRONT OF THE PAD.
11. A SECONDARY CABINET IS REQUIRED FOR ALL NON-LISTED NEW INSTALLATIONS.

F P L
OH & UG DISTRIBUTION SYSTEM STANDARDS

ORIGINATOR: MV — DRAWN BY: E. SCHILLING

NO.	DATE	REVISION	ORIG.	DRAWN	APPR.
13	8/27/20	ADD NOTE 11 & UPDATE TABLE	ARR	GXS	RDH
12	8/26/19	UPDATE NOTE 8	ARR	ELS	RDH
11	12/14/15	UPDATE TABLE	ARR	ELS	RDH
10	11/9/15	UPDATE TABLE	ARR	ELS	RDH
9	9/9/15	ADD NOTE 8	ARR	ELS	RDH

DATE: 10/9/96 — APPROVED: J.J. MCEVOY — NO SCALE
SUPERVISOR, OH/UG PRODUCT SUPPORT SERVICES

FPL

09/05/25

Colin Cassidy
4 Harvard Circle Suite 600
West Palm Beach 33409

Re: Available Fault Current for 1621 W Blue Heron Blvd

Dear Colin Cassidy

Thank you for contacting FPL about the available fault current at 1621 W Blue Heron Blvd . Based on the plans you have provided dated 09/05/25 , the maximum available fault current at the transformer secondary terminals is estimated to be 20821 symmetrical amperes at 277/480 volts. The protective device on the line side of the transformer currently in place or to be installed and serving your property located at the subject location is a 65 amp type Bayonet fuse. The primary service voltage is 13 kv L-G.This calculated symmetrical fault current is not intended for use as the basis for motor starting calculations and does not include:

- Consideration for any motor contribution or
- Fault current asymmetry.

The FPL equipment currently serving or planned to serve your facility may change over time as a result of any number of factors, including but not limited to transformer replacements due to load growth, electrical grid changes or emergencies. As a result, although we are providing you with this information for the sole purpose of assisting you in the completion of your study, you and your client should not design, install or operate your system in reliance upon any expectation that the specific size and type of equipment currently in place will remain so. If and when the size and type of the equipment changes, our employees are not always in a position to immediately notify customers.

As the construction project progresses, any questions or information you may need can be communicated through me. I have enclosed my business card for easy reference and look forward to hearing from you in the near future.

Sincerely,

Andrew Boutte

Andrew Boutte
Distribution Engineer

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

ARCHITECT OF RECORD

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791 Park of Commerce Blvd.
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CONSTRUCTION MANAGER/BUILDER

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PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
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32750

REGISTRATION

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4 HARVARD CIRCLE, SUITE 600
WEST PALM BEACH, FL 33409
FL REG. NO. 79576143

DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

CMTA
A LEGENCE Company
4 Harvard Cir. Suite 600 | West Palm Beach, FL 33409
561.688.8275 | cmta.com

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
DETAILS - ELECTRICAL

SHEET NUMBER
E6.03E

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/RBPD_Evidence and Firing Range_MEPF_R24.rvt
DATE STAMP: 10/23/2025 11:40:31 AM

Branch Panel: LP3

LOCATION: ELECT. E110
SUPPLY FROM: LP1
MOUNTING: Surface
ENCLOSURE: TYPE 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 22kA
MAINS TYPE: MLO
MAINS RATING: 225 A

C...	NOT...	CIRCUIT DESCRIPTION	TRIP	P	Ø	N	G	C.	A	B	C	C.	G	N	Ø	P	TRIP	CIRCUIT DESCRIPTION	NOT...	C...
1		REC. E106	20 A	1					0.18	0		--	--	--	--	3	30 A	SPD	--	2
3	(G)	EWC	20 A	1						0.58	0	--	--	--	--	--	--	--	--	4
5	--	MOTORIZED DAMPERS	20 A	1							0.35	0	--	--	--	--	--	--	--	6
7		REC. E120	20 A	1					0.36	0.8						1	20 A	DRYING CABINET.		8
9		EXTERIOR REC.	20 A	1						0.72	1.08					1	20 A	REC. E106		10
11		REC. 116/117/118	20 A	1							0.54	0.7				1	15 A	EF-3		12
13		REC. E102	20 A	1					1.08	0.53						1	15 A	EF-2		14
15		EF-4	15 A	1						0.53	0.54					1	20 A	REC. E115		16
17		REC. E114	20 A	1							0.9	0.53				1	15 A	EF-5		18
19		REC. E111	20 A	1					0.54	0.54						1	20 A	REC. E105		20
21		REC. E105	20 A	1						0.54	0.72					1	20 A	FLR BOX E106		22
23		ROOF RECEPTACLES	20 A	1							0.54	0.54				1	20 A	REC. E109/110/112		24
25		EXTERIOR REC.	20 A	1					0.72	0.8						1	20 A	DRYING CABINET.		26
27		DRYING CABINET.	20 A	1						0.8										28
29		REC. E102	20 A	1							0.72	0.8				1	20 A	DRYING CABINET.		30
31	--	SPARE	20 A	1	--	--	--	--	0	0			--	--	--	--	1	20 A	SPARE	--	32
33	--	SPARE	20 A	1	--	--	--	--			0	0	--	--	--	--	1	20 A	SPARE	--	34
35	--	SPARE	20 A	1	--	--	--	--					0	0	--	--	1	20 A	SPARE	--	36
37	--	SPARE	20 A	1	--	--	--	--	0	0			--	--	--	--	1	20 A	SPARE	--	38
39	--	SPARE	20 A	1	--	--	--	--			0	0	--	--	--	--	1	20 A	SPARE	--	40
41	--	SPARE	20 A	1	--	--	--	--					0	0	--	--	1	20 A	SPARE	--	42
								Total Load:	5.55 kVA		5.51 kVA							5.62 kVA		
								Total Amps:	46 A		46 A							47 A		

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Motor	2.64 kVA	106.63%	2.82 kVA	
Receptacle	14.04 kVA	85.61%	12.02 kVA	**Total Conn. Load:** 16.68 kVA
				Total Est. Demand: 14.84 kVA
				Total Conn.: 46 A
				Total Est. Demand: 41 A

NOTE LEGEND:

*** REFER TO POWER RISER FOR FEEDER WIRE AND CONDUIT SIZES.**

G = GFCI TYPE BREAKER
A = AFCI TYPE BREAKER
ST = SHUNT TRIP BREAKER
RL = RED, LOCKABLE BREAKER
E = EXISTING BREAKER
LSI = LSI ADJUSTABLE TRIP BREAKER

- ALL SINGLE POLE 15 & 20 AMP CIRCUITS SHALL BE PROVIDED WITH (2) #12 AWG CU, #12 CU GND IN 3/4" C. UNLESS NOTED OTHERWISE.
- PROVIDE GROUND BUS & NEUTRAL BUS.
- PROVIDE TYPE WRITTEN DIRECTORY.
- PANEL SHALL BE FULLY RATED
- FOR MULTIPHASE CIRCUITS, CONTRACTOR SHALL PROVIDE A PHASE CONDUCTOR FOR EACH POLE....

Branch Panel: HP1

LOCATION: ELECT. E110
SUPPLY FROM:
MOUNTING: Surface
ENCLOSURE: TYPE 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 35kA
MAINS TYPE: MCB
MAINS RATING: 600 A
MCB RATING: 600 A

C...	NOT...	CIRCUIT DESCRIPTION	TRIP	P	Ø	N	G	C.	A	B	C	C.	G	N	Ø	P	TRIP	CIRCUIT DESCRIPTION	NOT...	C...
1		TXL1	125 A	3					38.41	0		--	--	--	--	3	30 A	SPD	--	2
3	--	--	--	--	--	--	--	--			35.06	0	--	--	--	--	--	--	--	4
5	--	--	--	--	--	--	--	--					--	--	--	--	--	--	--	6
7		MEZZANINE LTG	20 A	1					0.81	3									1	15 A	VAV1-3	8
9		VAV1-1	20 A	1							3.5	3.5							1	20 A	VAV1-4	10
11		EXTERIOR LIGHTING	20 A	1									0.89	4					1	20 A	FIRING RANGE LIGHTING	12
13		SWAT LIGHTING	20 A	1					3.99	2.11									3	15 A	AIR COMPRESOR AC-1	14
15		VEHICLE STRG E101 LTG	20 A	1							4.11	2.11										16
17		VAV1-2	25 A	1									5.5	2.11	--	--	--	--	--	--		18
19		EWH-1	15 A	3					3	7.03									3	45 A	RTU-1	20
21	--	--	--	--	--	--	--	--			3	7.03			--	--	--	--	--	--		22
23	--	--	--	--	--	--	--	--					3	7.03	--	--	--	--	--	--		24
25		FORK LIFT CHARGER	60 A	3					11.08													26
27	--	--	--	--	--	--	--	--			11.08											28
29	--	--	--	--	--	--	--	--					11.08									30
31																						32
33																						34
35																						36
37		MAU-1	150 A	3					29.52	18									3	100 A	EF-1	38
39	--	--	--	--	--	--	--	--			29.52	18			--	--	--	--	--	--		40
41	--	--	--	--	--	--	--	--					29.52	18	--	--	--	--	--	--		42
								Total Load:	116.95 kVA		116.91 kVA		116.95 kVA								
								Total Amps:	422 A		422 A		422 A								

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Equipment	53.75 kVA	100.00%	53.75 kVA	
Heating	15.5 kVA	100.00%	15.5 kVA	**Total Conn. Load:** 350.8 kVA
Motor	226.17 kVA	109.79%	248.31 kVA	**Total Est. Demand:** 360.6 kVA
Receptacle	41.58 kVA	62.03%	25.79 kVA	**Total Conn.:** 422 A
Lighting	13.8 kVA	125.00%	17.25 kVA	**Total Est. Demand:** 434 A

NOTE LEGEND:

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G = GFCI TYPE BREAKER
A = AFCI TYPE BREAKER
ST = SHUNT TRIP BREAKER
RL = RED, LOCKABLE BREAKER
E = EXISTING BREAKER
LSI = LSI ADJUSTABLE TRIP BREAKER

- ALL SINGLE POLE 15 & 20 AMP CIRCUITS SHALL BE PROVIDED WITH (2) #12 AWG CU, #12 CU GND IN 3/4" C. UNLESS NOTED OTHERWISE.
- PROVIDE GROUND BUS & NEUTRAL BUS.
- PROVIDE TYPE WRITTEN DIRECTORY.
- PANEL SHALL BE FULLY RATED
- FOR MULTIPHASE CIRCUITS, CONTRACTOR SHALL PROVIDE A PHASE CONDUCTOR FOR EACH POLE....

Branch Panel: LP4

LOCATION: ELECT. E110
SUPPLY FROM: LP1
MOUNTING: Surface
ENCLOSURE: TYPE 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 22kA
MAINS TYPE: MLO
MAINS RATING: 225 A

C...	NOT...	CIRCUIT DESCRIPTION	TRIP	P	Ø	N	G	C.	A	B	C	C.	G	N	Ø	P	TRIP	CIRCUIT DESCRIPTION	NOT...	C...
1		RANGE HVAC CNTRL PNL	15 A	1					0.13	0		--	--	--	--	3	30 A	SPD	--	2
3		BDA QUAD E112	20 A	1						0.36	0	--	--	--	--	--	--	--	--	4
5		REC. E120	20 A	1							0.54	0	--	--	--	--	--	--	--	6
7		REC. E112	20 A	1					0.72	0.9						1	20 A	REC E113/119/122		8
9		REC. E121	20 A	1						0.9	1.92					1	20 A	FR - FITT PANEL		10
11		REC. E112	20 A	1							0.72	1.92				1	20 A	FR - MINI SERVER RACK		12
13		WALL RACK E121	20 A	1					1.5	4.16						2	30 A	FR - DRMP PANEL		14
15		L6-30R TWIST LOCK REC.	30 A	2						2.08	0	--	--	--	--	--	--	--	--	16
17	--	--	--	--	--	--	--	--			2.08	0.72				1	20 A	REC. E101		18
19		REC. E101	20 A	1					0.54	0.72						1	20 A	REC. E101		20
21		L6-30R TWIST LOCK REC.	30 A	2						2.08	0.2					1	20 A	LTG CNTRL PNL LCP2		22
23	--	--	--	--	--	--	--	--			2.08									24
25																				26
27																				28
29																				30
31	--	SPARE	20 A	1	--	--	--	--	0	0			--	--	--	--	1	20 A	SPARE	--	32
33	--	SPARE	20 A	1	--	--	--	--			0	0	--	--	--	--	1	20 A	SPARE	--	34
35	--	SPARE	20 A	1	--	--	--	--					0	0	--	--	1	20 A	SPARE	--	36
37	--	SPARE	20 A	1	--	--	--	--	0	0			--	--	--	--	1	20 A	SPARE	--	38
39	--	SPARE	20 A	1	--	--	--	--			0	0	--	--	--	--	1	20 A	SPARE	--	40
41	--	SPARE	20 A	1	--	--	--	--					0	0	--	--	1	20 A	SPARE	--	42
								Total Load:	8.67 kVA		7.54 kVA		8.06 kVA								
								Total Amps:	73 A		63 A		68 A								

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Equipment	14.35 kVA	100.00%	14.35 kVA	
Motor	4.16 kVA	125.00%	5.2 kVA	**Total Conn. Load:** 24.27 kVA
Receptacle	5.76 kVA	100.00%	5.76 kVA	**Total Est. Demand:** 25.31 kVA
				Total Conn.: 67 A
				Total Est. Demand: 70 A

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Branch Panel: LP1

LOCATION: ELECT. E110
SUPPLY FROM: TXL1
MOUNTING: Surface
ENCLOSURE: TYPE 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 22kA
MAINS TYPE: MCB
MAINS RATING: 400 A
MCB RATING: 400 A

C...	NOT...	CIRCUIT DESCRIPTION	TRIP	P	Ø	N	G	C.	A	B	C	C.	G	N	Ø	P	TRIP	CIRCUIT DESCRIPTION	NOT...	C...
1		LP2	100 A	3					10.03	0		--	--	--	--	3	30 A	SPD	--	2
3	--	--	--	--	--	--	--	--			8.35	0	--	--	--	--	--	--	--	4
5	--	--	--	--	--	--	--	--					8.48	0	--	--	--	--	--	6
7		LP3	100 A	3					5.55	8.67									3	100 A	LP4	8
9	--	--	--	--	--	--	--	--			5.51	7.54			--	--	--	--	--	10
11	--	--	--	--	--	--	--	--					5.62	8.06	--	--	--	--	--	12
13		MCC REC.	50 A	2					3.33	0.5									1	20 A	IRRIGATION CONTROL	14
15	--	--	--	--	--	--	--	--			3.33	3.33			--	--	--	--	2	50 A	MCC REC.	16
17		SWAT MCC REC.	50 A	2									3.33	3.33	--	--	--	--	--	--		18
19	--	--	--	--	--	--	--	--	3.33	1.32									3	20 A	ROLLUP DOOR E101	20
21		ROLLUP DOOR E101	20 A	3							1.32	1.32			--	--	--	--	--	--		22
23	--	--	--	--	--	--	--	--					1.32	1.32	--	--	--	--	--	--		24
25	--	--	--	--	--	--	--	--	1.32	1.32									3	20 A	ROLLUP DOOR E101	26
27		IRRIGATION PUMP (7.5HP)	50 A	3							3.04	1.32			--	--	--	--	--	--		28
29	--	--	--	--	--	--	--	--					3.04	1.32	--	--	--	--	--	--		30
31	--	--	--	--	--	--	--	--	3.04													32
33																						34
35																						36
37	--	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	--	38
39	--	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	--	40
41	--	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	--	42
								Total Load:	38.41 kVA		35.06 kVA		35.82 kVA								
								Total Amps:	321 A		292 A		299 A								

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Equipment	20.51 kVA	100.00%	20.51 kVA	
Motor	47.2 kVA	104.83%	49.48 kVA	**Total Conn. Load:** 109.29 kVA
Receptacle	41.58 kVA	62.03%	25.79 kVA	**Total Est. Demand:** 95.78 kVA
				Total Conn.: 303 A
				Total Est. Demand: 266 A

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Branch Panel: LP2

LOCATION: ELECT. E110
SUPPLY FROM: LP1
MOUNTING: Surface
ENCLOSURE: TYPE 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 22kA
MAINS TYPE: MLO
MAINS RATING: 225 A

C...	NOT...	CIRCUIT DESCRIPTION	TRIP	P	Ø	N	G	C.	A	B	C	C.	G	N	Ø	P	TRIP	CIRCUIT DESCRIPTION	NOT...	C...
1		EF-1A	30 A	1					1.92	0		--	--	--	--	3	30 A	SPD	--	2
3	(RL)	FACP	20 A	1						1.5	0	--	--	--	--	--	--	--	--	4
5		EF-1C	30 A	1							1.92	0	--	--	--	--	--	--	--	6
7		EF-1D	30 A	1					1.92	1.92						1	30 A	EF-1B		8
9		EF-1E	30 A	1						1.92	0.73					2	15 A	HVLS-1A		10
11		MEZZANINE REC.	20 A	1							0.9	0.73	--	--	--	--	--	--	--	12
13		MEZZANINE REC.	20 A	1					0.9											14
15		HVLS-1B	15 A	2						0.73										16
17	--	--	--	--	--	--	--	--			0.73	0.73				2	15 A	HVLS-1C		18
19									0.73				--	--	--	--	--	--	--	20
21		CU-5	15 A	2						0.83	1.32					3	20 A	ROLLUP DOOR E102		22
23	--	--	--	--	--	--	--	--				0.83	1.32	--	--	--	--	--	--	24
25		ROLLUP DOOR E105	20 A	3					1.32	1.32				--	--	--	--	--	--	26
27	--	--	--	--	--	--	--	--		1.32										28
29	--	--	--	--	--	--	--	--			1.32									30
31	--	SPARE	20 A	1	--	--	--	--	0	0				--	--	--	--	--	--	32
33	--	SPARE	20 A	1	--	--	--	--			0	0		--	--	--	--	--	--	34
35	--	SPARE	20 A	1	--	--	--	--					0	--	--	--	--	--	--	36
37	--	SPARE	20 A	1	--	--	--	--	0	0				--	--	--	--	--	--	38
39	--	SPARE	20 A	1	--	--	--	--			0	0		--	--	--	--	--	--	40
41	--	SPARE	20 A	1	--	--	--	--					0	--	--	--	--	--	--	42
								Total Load:	10.03 kVA		8.35 kVA		8.48 kVA							
								Total Amps:	84 A		70 A		71 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Equipment	1.5 kVA	100.00%	1.5 kVA	
Motor	23.56 kVA	104.20%	24.55 kVA	**Total Conn. Load:** 26.86 kVA
Receptacle	1.8 kVA	100.00%	1.8 kVA	**Total Est. Demand:** 27.85 kVA
				Total Conn.: 75 A
				Total Est. Demand: 77 A

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FILE NAME: Autodesk Docs://_1007657.00 - CORE - City of Riviera Beach D/RBPD_Evidence and Firing Range_MEPF_R24.rvt
DATE STAMP: 10/23/2025 11:40:39 AM

CLIENT

CITY OF RIVIERA BEACH
1481 West 15 Street
Riviera Beach, FL 33404

ARCHITECT OF RECORD

PGAL, Inc.
791 Park of Commerce Blvd.
Suite 400
Boca Raton, FL 33487
T 561 988 4002
www.pgal.com

CONSTRUCTION MANAGER/BUILDER

CORE CONSTRUCTION
1641 Worthington Rd
West Palm Beach
FL 33409

PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
Longwood, FL
32750

REGISTRATION

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SUCHARMA WIJEGUNAWARDANA, P.E.
4 HARVARD CIRCLE, SUITE 600
WEST PALM BEACH, FL 33409
TEL REG. NO. PE93143

DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

CMTA
A LEIDOS Company
4 Harvard Cir, Suite 600 | West Palm Beach, FL 33409
561.688.6575 | cmta.com

PROJECT STATUS

90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION

1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL
33404

PROJECT NUMBER

1007657.00

SHEET TITLE

SCHEDULES - ELECTRICAL

SHEET NUMBER

E7.01E

LIGHTING CONTROL PANEL 'LCP2' SCHEDULE

PANEL-RELAY#	BRANCH CKT#	AREA	CONTROL	TYPE	DIMMING
LCP2#1	HP1-7	WALL PACK LIGHTING	TIMECLOCK/PHOTOCELL	WPA/WPB	0-10V
LCP2#2	HP1-7	MONUMENT SIGN	TIMECLOCK/PHOTOCELL	CUSTOM	0-10V
LCP2#3	HP1-7	LIT LOGO/SIGNAGE	TIMECLOCK/PHOTOCELL	CUSTOM	0-10V
LCP2#4					0-10V
LCP2#5					0-10V
LCP2#6					0-10V
LCP2#7					0-10V
LCP2#8					0-10V
LCP2#9					0-10V
LCP2#10					DALI
LCP2#11					0-10V
LCP2#12					0-10V
LCP2#13					0-10V
LCP2#14					0-10V
LCP2#15					0-10V
LCP2#16					0-10V

NOTES:
1. LIGHTING CONTROL PANEL SHALL BE CAPABLE OF CONTROLLING BOTH INTERIOR AND EXTERIOR LUMINARIES.

EQUIPMENT CONNECTION SCHEDULE

EQUIPMENT NAME	LOCATION	VOLTAGE/ PHASE	BRANCH O.C.P.	DISCONNECT SWITCH			CONDUCTORS	RACEWAY	NOTES
				SIZE	FUSE	ENCL.			
MAU-1	ROOF	480/3	150A	-	-	-	(3) #3/0 AWG AL, (1) #4 AL GND.	2"	(1)
EF-1	ROOF	480/3	100A	100A	-	3R	(3) #1 AWG AL, (1) #6 AL GND.	1-1/2"	-
RTU-1	ROOF	480/3	45A	60A	45A	3R	(3) #6 AWG CU, (1) #10 CU GND.	1"	-
VAV1-1	EV PROCESS E102	277/1	20A	30A	-	1	(2) #12 AWG CU, (1) #12 CU GND.	3/4"	-
VAV1-2	SWAT E106	277/1	25A	30A	-	1	(2) #10 AWG CU, (1) #10 CU GND.	3/4"	-
VAV1-3	SIMULATOR E115	277/1	15A	30A	-	1	(2) #12 AWG CU, (1) #12 CU GND.	3/4"	-
VAV1-4	CONTROL E121	277/1	20A	30A	-	1	(2) #12 AWG CU, (1) #12 CU GND.	3/4"	-
EF-1A	ROOF	120/1	30A	30A	-	3R	(2) #4 AWG CU, (1) #4 CU GND.	1"	-
EF-1B	ROOF	120/1	30A	30A	-	3R	(2) #4 AWG CU, (1) #4 CU GND.	1"	-
EF-1C	ROOF	120/1	30A	30A	-	3R	(2) #4 AWG CU, (1) #4 CU GND.	1"	-
EF-1D	ROOF	120/1	30A	30A	-	3R	(2) #4 AWG CU, (1) #4 CU GND.	1"	-
EF-1E	ROOF	120/1	30A	30A	-	3R	(2) #4 AWG CU, (1) #4 CU GND.	1"	-
EF-2	ROOF	120/1	15A	30A	-	3R	(2) #12 AWG CU, (1) #12 CU GND.	3/4"	-
EF-3	ROOF	120/1	15A	30A	-	3R	(2) #10 AWG CU, (1) #10 CU GND.	3/4"	-
EF-4	ROOF	120/1	15A	30A	-	3R	(2) #12 AWG CU, (1) #12 CU GND.	3/4"	-
EF-5	ROOF	120/1	15A	30A	-	3R	(2) #12 AWG CU, (1) #12 CU GND.	3/4"	-
CU-5	ROOF	208/1	15A	30A	-	3R	(2) #12 AWG CU, (1) #12 CU GND.	3/4"	-
HLVS-1A	EVIDENCE VEHICLE STRG 101	208/1	15A	30A	-	1	(2) #12 AWG CU, (1) #12 CU GND.	3/4"	-
HLVS-1B	EVIDENCE VEHICLE STRG 101	208/1	15A	30A	-	1	(2) #12 AWG CU, (1) #12 CU GND.	3/4"	-
HLVS-1C	EVIDENCE VEHICLE STRG 101	208/1	15A	30A	-	1	(2) #12 AWG CU, (1) #12 CU GND.	3/4"	-
IRRIGATION PUMP	EXTERIOR	208/3	50A	60A	-	3R	(3) #8 AWG CU, (1) #10 CU GND.	1"	-
EWH-1	JAN 1118	480/3	15A	30A	-	1	(3) #12 AWG CU, (1) #12 CU GND.	3/4"	-
AC-1	FLEX E109	480/3	15A	30A	-	1	(3) #12 AWG CU, (1) #12 CU GND.	3/4"	-

NOTES: 1. DISCONNECT BY OTHERS

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/RBPD_Evidence and Firing Range_MEPF_R24.rvt
DATE STAMP: 10/23/2025 4:27:22 PM

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REGISTRATION

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4 HARVARD CIRCLE, SUITE 600
WEST PALM BEACH, FL 33409
FL REG. NO. 79597A3

DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

CMTA
A LEGENCE Company
4 Harvard Cir. Suite 600 | West Palm Beach, FL 33409
561.688.8275 | cmta.com

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

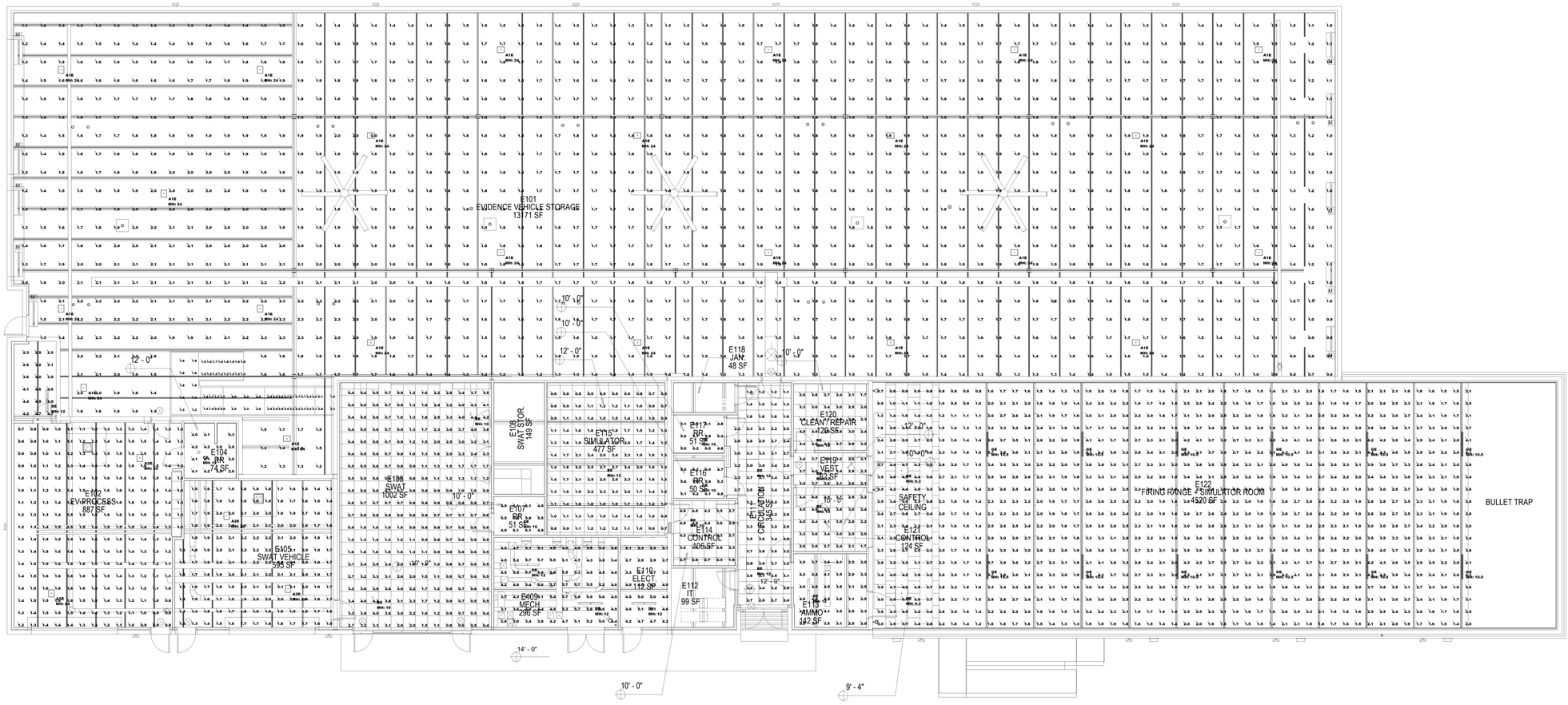
PROJECT NAME
RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
SCHEDULES - ELECTRICAL

SHEET NUMBER
E7.02E



Luminaire Schedule: RIVIERA BEACH POLICE DEPARTMENT - EVIDENCE & FIRING RANGE REV 2 RIVIERA BEACH, FL 08/21/2025

Scenario: EMERGENCY

Symbol	Qty	Label	Arrangement	Manufacturer	Catalog Number	Mounting	Emergency	LLF	Lum Lumens	Lum Watts
	23	A1E	Single	Lithonia Lighting	CPHB 12000LM SEF GCL MD 40K 80CRI E10W	SUSPENDED MOUNT A.F.F.	BATTERY	0.860	1400	87.95
	4	A2E	Single	Lithonia Lighting	CPHB 24000LM SEF GCL MD 40K 80CRI E10W	SUSPENDED MOUNT A.F.F.	BATTERY	0.860	1430	174.41
	9	BE	Single	Lithonia Lighting	STAK 2X2 5000LM 80CRI 40K CGL MVOLT E10W	RECESSED MOUNT A.F.F.	BATTERY	0.860	1240	42.6156
	4	CE	Single	Lithonia Lighting	LDN6 40/15 LO6AR LD EL	RECESSED MOUNT A.F.F.	BATTERY	0.670	780	17.52
	5	DE	Single	Lithonia Lighting	CLX L48 4000LM SEF FDL MVOLT 40K 80CRI E10W	SUSPENDED MOUNT A.F.F.	BATTERY	0.860	1550	25.5429
	12	GE	Single	Lithonia Lighting	ZL1D L48 3000LM FST MVOLT 40K 80CRI E10W	CEILING MOUNT A.F.F.	BATTERY	0.860	1350	29.85
	2	HE	Single	Lithonia Lighting	CPX 2X2 ALO7 (High) SWW7 (40K) SWL MVOLT E10W	RECESSED MOUNT A.F.F.	BATTERY	0.760	1390	32.76

Calculation Summary: RIVIERA BEACH POLICE DEPARTMENT - EVIDENCE & FIRING RANGE REV 2 RIVIERA BEACH, FL 08/21/2025

Scenario: EMERGENCY

Label	Calc Type	Units	Avg	Max	Min	Avg/Min	Max/Min
103 - DRYING ROOM_EM	Illuminance	Fc	3.84	4.9	2.3	1.67	2.13
E101 - EVIDENCE VEHICLE STORAGE_EM	Illuminance	Fc	1.71	2.3	0.5	3.42	4.60
E102 - EV PROCESS_EM	Illuminance	Fc	1.35	1.6	0.7	1.93	2.29
E104 - RR_EM	Illuminance	Fc	3.53	4.2	0.3	11.77	14.00
E105 - SWAT VEHICLE_EM	Illuminance	Fc	1.83	2.2	1.2	1.53	1.83
E106 - SWAT_EM	Illuminance	Fc	1.48	4.4	0.4	3.70	11.00
E107 - RR_EM	Illuminance	Fc	5.55	6.1	4.9	1.13	1.24
E109 - MECH_EM	Illuminance	Fc	4.77	5.9	2.6	1.83	2.27
E110 - ELECT_EM	Illuminance	Fc	3.83	5.1	2.1	1.82	2.43
E111 - CIRCULATION_EM	Illuminance	Fc	2.88	3.9	1.1	2.62	3.55
E113 - AMMO_EM	Illuminance	Fc	3.50	4.8	2.0	1.75	2.40
E114 - CONTROL_EM	Illuminance	Fc	3.47	4.9	1.9	1.83	2.58
E115 - SIMULATOR_EM	Illuminance	Fc	1.49	2.7	0.6	2.48	4.50
E116 - RR_EM	Illuminance	Fc	5.55	6.2	4.7	1.18	1.32
E117 - RR_EM	Illuminance	Fc	5.55	6.2	4.8	1.16	1.29
E119 - VEST_EM	Illuminance	Fc	3.17	4.0	2.1	1.51	1.90
E120 - CLEAN REPAIR_EM	Illuminance	Fc	3.30	4.9	1.7	1.94	2.88
E121 - CONTROL_EM	Illuminance	Fc	3.29	4.9	1.7	1.94	2.88
E122 - FIRING RANGE SIMULATOR ROOM_EM	Illuminance	Fc	2.52	5.1	0.7	3.60	7.29
STAIR	Illuminance	Fc	2.00	3.30	0.90	2.22	3.67

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/RBPD_Evidence and Firing Range_MEPF_R24.rvt
DATE STAMP: 10/23/2025 11:40:53 AM

CLIENT

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www.pgal.com

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CORE CONSTRUCTION
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West Palm Beach
FL 33409

PUBLIC SAFETY CONSULTANT/ARCHITECT

JL2 ARCHITECTURE INC.
1678 Kingston Road
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32750

REGISTRATION

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DRAWING HISTORY

№	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

CMTA
A LEGENCE Company
4 Harvard Cir, Suite 600 | West Palm Beach, FL 33409
561.688.6575 | cmta.com

PROJECT STATUS

90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE

10/14/2025

PROJECT NAME

RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION

1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER

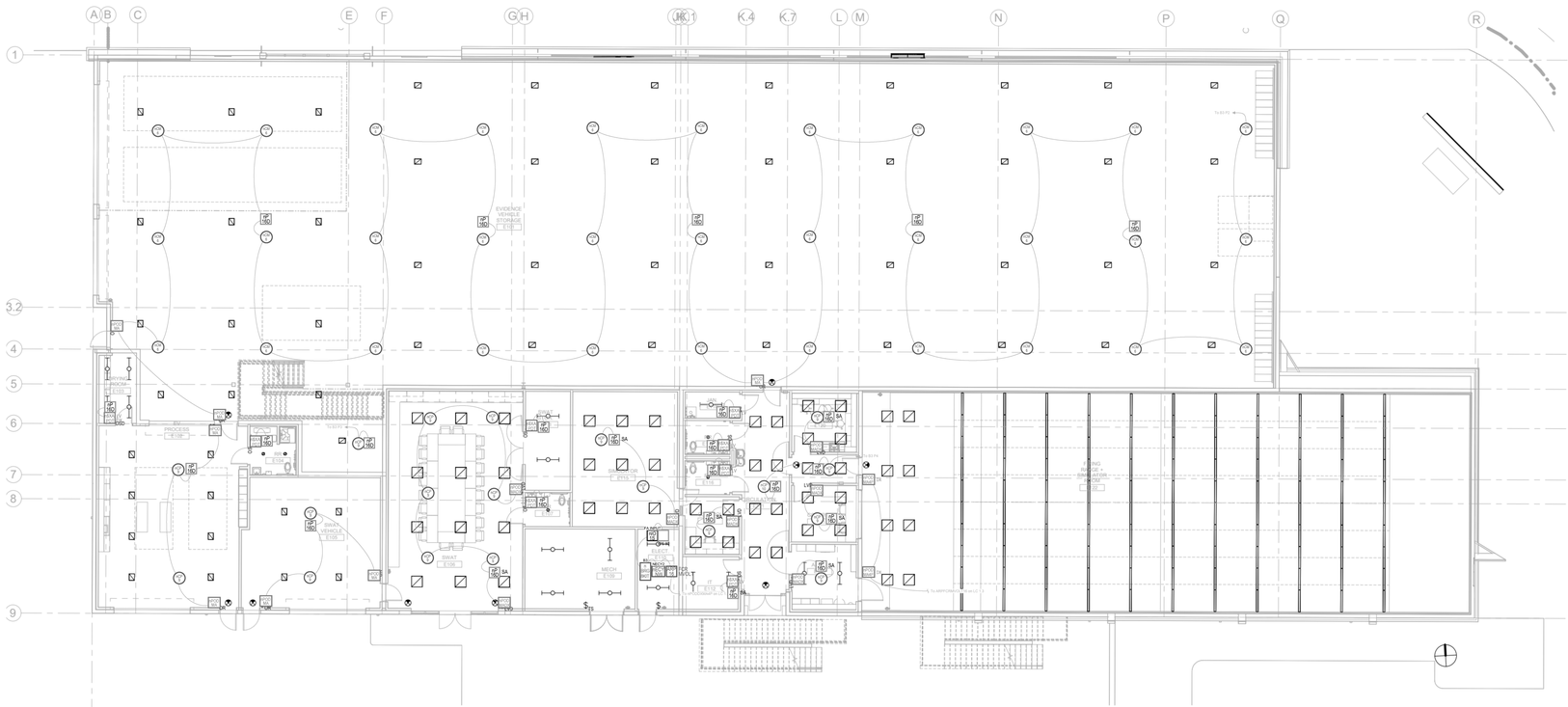
1007657.00

SHEET TITLE

EMERGENCY PHOTOMETRICS - ELECTRICAL

SHEET NUMBER

E8.01E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EVIDENCE VEHICLE STORAGE E105
SWAT VEHICLE E106
WEAPONS PROCESS E107
WEAPONS STORAGE E108
SWAT E109
WEAPONS STORAGE E110
MEDIA E111
MEDIA E112
BREAK ROOM E113
FIRING RANGE 4 SIMULATOR E114
FIRING RANGE 3 SIMULATOR E115
FIRING RANGE 2 SIMULATOR E116
FIRING RANGE 1 SIMULATOR E117
TRAINING / CLASSROOM E118
TRAINING / CLASSROOM E119
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TRAINING / CLASSROOM E121
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TRAINING / CLASSROOM E124
TRAINING / CLASSROOM E125
TRAINING / CLASSROOM E126
TRAINING / CLASSROOM

TECHNOLOGY SYSTEMS SYMBOLS LEGEND

NOTE: THESE ARE STANDARD SYMBOLS AND ALL MAY NOT APPEAR ON THE PROJECT DRAWINGS. ALL DETAILS FOR EACH SYMBOL ARE INDICATED BELOW UNLESS OTHERWISE NOTED ELSEWHERE ON THE DRAWINGS. SEE ABBREVIATIONS FOR ADDITIONAL LABELS THAT MAY BE USED.

DATA DISTRIBUTION

- DATA OUTLET, FLUSH MOUNTED IN WALL AT 18" OC AFF, FLUSH MOUNTED.
- DATA OUTLET, FLUSH MOUNTED IN CEILING.
- TELEPHONE OUTLET, FLUSH MOUNTED IN WALL AT 46" OC AFF.
- TELEPHONE OUTLET, FLUSH MOUNTED IN CEILING.
- DATA/TELEPHONE OUTLET, FLUSH MOUNTED IN WALL AT 46" OC AFF.
- DATA/TELEPHONE OUTLET, FLUSH MOUNTED IN CEILING.
- WAP — WIRELESS ACCESS POINT, FLUSH MOUNTED IN CEILING, TERMINATION ABOVE CEILING.
- WAP — WIRELESS ACCESS POINT, SURFACE MOUNTED TO POLE AT 96" OC AFF.
- WAP — WIRELESS ACCESS POINT, SURFACE MOUNTED TO WALL AT 96" OC AFF.
- DAS — DISTRIBUTED ANTENNA SYSTEM ANTENNA, FLUSH MOUNTED IN CEILING.

THE FOLLOWING ARE APPLICABLE TO THE ABOVE DATA/TELEPHONE DISTRIBUTION SECTION AS NOTED IN THE DESIGN:

*	(D#)	PROVIDE FACEPLATE WITH NUMBER OF DATA PORTS AS SHOWN. ALL FACEPLATES SHALL HAVE 6 SPACES FOR TERMINATION MODULES.
	(W)	TELEPHONE WALL MOUNT PLATE WITH LUGS FOR MOUNTING PHONE TO WALL.
	(C)	MOUNTED WHERE BOTTOM IS AT 4" ABOVE COUNTER OR BACKSPLASH. MAXIMUM 46" OC AFF.
	(TV)	MOUNTED 66" OC AFF BEHIND FLAT PANEL DISPLAY.
	(A)	MOUNTED ABOVE CEILING.

AUDIOVISUAL SYSTEM

- AUDIOVISUAL OUTLET, FLUSH MOUNTED IN WALL AT 18" OC AFF.
- AUDIOVISUAL OUTLET, FLUSH MOUNTED IN CEILING.
- S — SPEAKER, CEILING MOUNTED.
- S — SPEAKER, WALL MOUNTED AT 24" OC BFC.
- M — MICROPHONE, CEILING MOUNTED.
- M — MICROPHONE, WALL MOUNTED AT 24" OC BFC.
- M — MICROPHONE, SURFACE MOUNTED TO TABLETOP. SEE ARCHITECTURAL DRAWINGS FOR FURNITURE LOCATION AND MOUNTING HEIGHT.
- V — VOLUME CONTROL, SURFACE MOUNTED TO WALL AT 46" OC AFF.
- AMP — AMPLIFIER, SURFACE MOUNTED TO WALL AT 46" OC AFF OR MANUFACTURER RECOMMENDED MOUNTING HEIGHT.
- TSC — TOUCH SCREEN, SURFACE MOUNTED TO WALL AT 46" OC AFF.
- TSC — TOUCH SCREEN, SURFACE MOUNTED TO TABLETOP. SEE ARCHITECTURAL DRAWINGS FOR FURNITURE LOCATION AND MOUNTING HEIGHT.
- CP — CONTROL PANEL, SURFACE MOUNTED TO WALL AT 46" OC AFF.
- CAMERA, SURFACE MOUNTED TO CEILING.
- PROJECTOR, SUSPENDED FROM CEILING.
- FLAT PANEL DISPLAY, SURFACE MOUNTED TO WALL AT 66" OC AFF.

THE FOLLOWING ARE APPLICABLE TO THE ABOVE AUDIOVISUAL SYSTEM SECTION AS NOTED IN THE DESIGN:

*	(C)	MOUNTED WHERE BOTTOM IS AT 4" ABOVE COUNTER OR BACKSPLASH. MAXIMUM 46" OC AFF.
	(TV)	MOUNTED 66" OC AFF BEHIND FLAT PANEL DISPLAY.
	(A)	MOUNTED ABOVE CEILING.
	(L)	LAY-IN, RECESSED MOUNTED.
	(R)	ROUND, FLUSH MOUNTED.
	(S)	SQUARE, FLUSH MOUNTED.

VIDEO SURVEILLANCE SYSTEM

- SURVEILLANCE CAMERA, SURFACE MOUNTED TO POLE AT 96" OC AFF.
- SURVEILLANCE CAMERA, SURFACE MOUNTED TO WALL AT 96" OC AFF.
- SURVEILLANCE CAMERA, SURFACE MOUNTED TO CEILING.
- VM — VIDEO MONITOR OUTLET, FLUSH MOUNTED BEHIND DISPLAYS FOR TIE-IN WITH CCTV CAMERAS.

THE FOLLOWING ARE APPLICABLE TO THE ABOVE VIDEO SURVEILLANCE SYSTEM SECTION AS NOTED IN THE DESIGN:

*	(P)	PAN/TILT/ZOOM.
	(W)	WEATHERPROOF.
	(D)	DOME CAMERA.
	(B)	BULLET CAMERA.
	(#)	PROVIDE CAMERA WITH APPROXIMATE HORIZONTAL FIELD OF VIEW AS SHOWN ON THE FLOOR PLAN.

TELEVISION SYSTEM

- TV — TELEVISION OUTLET, ONE (1) RG-6 COAX, TV DISPLAY SHALL BE PROVIDED BY OTHERS, FLUSH MOUNTED IN WALL AT 18" OC AFF.
- TV — TELEVISION OUTLET, ONE (1) RG-6 COAX, TV DISPLAY SHALL BE PROVIDED BY OTHERS, FLUSH MOUNTED IN CEILING.

THE FOLLOWING ARE APPLICABLE TO THE ABOVE TELEVISION SYSTEM SECTION AS NOTED IN THE DESIGN:

*	(C)	MOUNTED WHERE BOTTOM IS AT 4" ABOVE COUNTER OR BACKSPLASH. MAXIMUM 46" OC AFF.
	(TV)	MOUNTED 66" OC AFF BEHIND FLAT PANEL DISPLAY.
	(A)	MOUNTED ABOVE CEILING.

INTERCOM SYSTEM

- IS — INTERCOM SPEAKER, CEILING MOUNTED.
- IS — INTERCOM SPEAKER, WALL MOUNTED AT 24" OC BFC.
- IS — INTERCOM SPEAKER, HORN, WEATHER-RESISTANT, SURFACE MOUNTED TO WALL AT 24" OC BFC.
- IS — INTERCOM SPEAKER, FLEXHORN, VANDAL-RESISTANT, WEATHER-RESISTANT, SURFACE MOUNTED TO WALL AT 24" OC BFC.
- IC — INTERCOM CALL SWITCH, FLUSH MOUNTED IN RACEWAY NEAR TEACHERS STATION.
- IV — INTERCOM VOLUME CONTROL, FLUSH MOUNTED IN RACEWAY NEAR TEACHERS STATION.
- ID — INTERCOM DOOR BELL CAMERA, SURFACE MOUNTED AT 46" OC AFF, CONNECTED TO MASTER STATION NEAR COMPUTER IN LOBBY OFFICE, UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.

THE FOLLOWING ARE APPLICABLE TO THE ABOVE INTERCOM SYSTEM SECTION AS NOTED IN THE DESIGN:

*	(O)	ONE-WAY DEVICE.
	(T)	TALKBACK DEVICE.
	(IO)	IP SOUNDPOINT, ONE-WAY DEVICE.
	(IT)	IP SOUNDPOINT , TALKBACK DEVICE.
	(L)	LAY-IN, RECESSED MOUNTED.
	(R)	ROUND, FLUSH MOUNTED.
	(S)	SQUARE, FLUSH MOUNTED.
	(V)	VANDAL-RESISTANT ANGLED ENCLOSURE WITH SPEAKER, SURFACE MOUNTED.
	(SD)	SMALL TEXT DISPLAY SPEAKER, SURFACE MOUNTED TO TEACHING WALL.
	(LD)	LARGE TEXT DISPLAY SPEAKER, SURFACE MOUNTED TO TEACHING WALL.
	(S)	5 WATT HORN.
	(15)	15 WATT HORN.
	(C)	COMPACT FLEXHORN WITHOUT ENCLOSURE, SURFACE MOUNTED.
	(E)	EMERGENCY ONLY CALL SWITCH.
	(NE)	NORMAL/EMERGENCY CALL SWITCH.
	(N)	NOISE-SENSING DEVICE. SHALL BE ACCOMPANIED WITH REMOTE MICROPHONE FOR WORKING SYSTEM (EXACT LOCATIONS AND QUANTITIES TO BE CONFIRMED AND LOCATED BY PRINCIPAL AND PM).

INTRUSION DETECTION SYSTEM

- K — KEYPAD, SURFACE MOUNTED TO WALL AT 46" OC AFF.
- DC — DOOR CONTACT, CONSISTS OF COMPONENT RECESSED MOUNTED IN TOP FRAME OF DOOR AND COMPONENT RECESSED MOUNTED IN TOP OF THE DOOR. COORDINATE WITH ARCHITECTURAL DRAWINGS AND VENDORS FOR DOOR SPEC.
- WC — WINDOW CONTACT, CONSISTS OF COMPONENT RECESSED MOUNTED IN TOP OF FRAME OF DOOR AND COMPONENT RECESSED MOUNTED IN TOP OF THE DOOR. COORDINATE WITH ARCHITECTURAL DRAWINGS AND VENDORS FOR WINDOW SPEC.
- DB — DURESS BUTTON, SURFACE MOUNTED TO WALL AT 46" OC AFF.
- SL — SECURITY LOCKING DEVICE, SURFACE MOUNTED ON OR IN PLACE OF DOOR HANDLE.
- GB — GLASS BREAK DETECTOR, SURFACE MOUNTED TO WALL AT 84" OC AFF. COORDINATE WITH WINDOW/DOOR LOCATION AND OPTIMAL MOUNTING HEIGHT AND LOCATION FOR FINAL PLACEMENT BASED ON MANUFACTURER'S INSTRUCTIONS.
- GB — GLASS BREAK DETECTOR, CEILING MOUNTED. COORDINATE WITH WINDOW/DOOR LOCATION FOR FINAL PLACEMENT BASED ON MANUFACTURERS INSTRUCTIONS.
- MD — MOTION DETECTOR, SURFACE MOUNTED TO WALL AT 84" OC AFF. COORDINATE RECOMMENDED LOCATION AND MOUNTING HEIGHT WITH MANUFACTURER FOR FINAL PLACEMENT.
- MD — MOTION DETECTOR, CEILING MOUNTED. COORDINATE RECOMMENDED LOCATION WITH MANUFACTURER FOR FINAL PLACEMENT.
- S — SOUND DETECTOR, SURFACE MOUNTED TO WALL AT 84" OC AFF. COORDINATE RECOMMENDED LOCATION AND MOUNTING HEIGHT WITH MANUFACTURER FOR FINAL PLACEMENT.
- VIBRATION DETECTOR, SURFACE MOUNTED TO WALL AT 84" OC AFF. COORDINATE RECOMMENDED LOCATION AND MOUNTING HEIGHT WITH MANUFACTURER FOR FINAL PLACEMENT.
- A — ALARM STROBE, SURFACE MOUNTED TO WALL AT 84" OC AFF. COORDINATE RECOMMENDED LOCATION AND MOUNTING HEIGHT WITH MANUFACTURER FOR FINAL PLACEMENT.

THE FOLLOWING ARE APPLICABLE TO THE ABOVE SECURITY SYSTEM SECTION AS NOTED IN THE DESIGN:

*	(A)	ACTIVE INFRARED.
	(P)	PASSIVE INFRARED.
	(U)	ULTRASONIC.

ACCESS CONTROL SYSTEM

- CR — CARD READER, SURFACE MOUNTED TO WALL AT 46" OC AFF.
- BR — BIOMETRIC READER, SURFACE MOUNTED TO WALL AT 46" OC AFF.
- PB — PUSH BUTTON, SURFACE MOUNTED TO WALL AT 46" OC AFF.
- DP — DOOR POSITION SWITCH, CONSISTS OF COMPONENT RECESSED MOUNTED IN TOP FRAME OF DOOR AND COMPONENT RECESSED MOUNTED IN TOP OF THE DOOR.
- EL — ELECTRONIC LOCK, MOUNTED ON OR IN PLACE OF DOOR HANDLE. COORDINATE WITH ARCHITECT FOR DOOR HARDWARE.
- ES — ELECTRONIC STRIKE, MOUNTED ONTO FRAME OF DOORWAY. COORDINATE WITH ARCHITECT FOR DOOR HARDWARE.

THE FOLLOWING ARE APPLICABLE TO THE ABOVE CARD ACCESS SYSTEM SECTION AS NOTED IN THE DESIGN:

*	(K)	CARD READER W/ KEYPAD. READER SHALL ALLOW KEYPAD ENTRY AS A SUBSTITUTE IN CASE CARD/BADGE/FOB/ETC. IS MISSING OR LOST.

TECHNOLOGY SYSTEMS GENERAL NOTES, CONDUIT ROUTING NOTES, AND ABBREVIATIONS

GENERAL NOTES

1. PRODUCTS SHALL BE OF MATERIALS THAT ARE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE TO BE INSTALLED.
2. WORKING CLEARANCES AROUND EQUIPMENT, RACKS, AND CABINETS SHALL BE MAINTAINED IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 110 AND OSHA. COORDINATE INSTALLATION TO MAINTAIN REQUIRED CLEARANCES.
3. IF AN OUTLET BOX IS REQUIRED TO BE LOCATED IN AN ASSEMBLY OR PARTITION RATED AS "FIRE/SMOKE" OR "SMOKE" OR IDENTIFIED AS SUCH, THEN ALL OF THE FOLLOWING CONDITIONS SHALL BE MET:
   A. THE OUTLET BOX SHALL BE METALLIC.
   B. THE OUTLET BOX OPENINGS SHALL OCCUR ONLY ON ONE SIDE OF THE FRAMING SPACE.
   C. THE OUTLET BOX OPENINGS SHALL NOT EXCEED 16 SQUARE INCHES.
   D. ALL CLEARANCES BETWEEN THE OUTLET BOX AND THE WALL BOARD MATERIAL SHALL BE COMPLETELY SEALED WITH APPROVED MATERIALS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS FOR THE PROJECT.
   E. PROVIDE A SUPPLEMENTAL BARRIER AROUND OUTLETS LARGER THAN 16 INCHES SO THAT THE ORIGINAL RATING OF THE PENETRATION IS MAINTAINED.
   F. THE TOTAL AGGREGATE SURFACE AREA OF THE OUTLET BOX SHALL NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET.
   G. THE OUTLET BOX SHALL BE SEPARATED FROM OPENINGS ON THE OPPOSITE SIDE OF THE RATED PARTITION BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES.
   H. THE OUTLET BOX SHALL BE SECURELY FASTENED TO A PARTITION FRAMING MEMBER BY MEANS OF AN APPROVED ATTACHMENT METHOD.
   I. OPENINGS CUT INTO THE WALL BOARD MATERIAL SHALL NOT EXCEED 1/8 INCH BETWEEN THE EDGES OF THE OUTLET BOX AND THE EDGES OF THE OPENING.
4. LOCATIONS OF EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE. COORDINATE EXACT EQUIPMENT LOCATION AND CONNECTION REQUIREMENTS WITH THE OWNER, ARCHITECT, PROJECT GC, AND APPROPRIATE TRADE PRIOR TO INSTALLATION.
5. FOR EXACT LOCATION OF CEILING MOUNTED EQUIPMENT REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN. LOCATIONS OF EQUIPMENT NOT INCLUDED ON THE REFLECTED CEILING PLAN SHALL BE COORDINATED WITH THOSE ITEMS SHOWN. COORDINATION OF CEILING MOUNTED EQUIPMENT SHALL BE COMPLETED PRIOR TO ANY ROUGH-IN. NOTIFY ENGINEER OF ANY DISCREPANCY.
6. CONTRACTOR TO PROVIDE FINAL CONNECTIONS TO OWNER PROVIDED EQUIPMENT WHERE INDICATED ON THE PLAN DRAWINGS.
7. PRIOR TO ROUGH-IN AND INSTALLATION OF ANY FLOOR MOUNTED DEVICE, VERIFY LOCATION WITH OWNER AND ARCHITECT.
8. VERIFY AND COORDINATE THE LOCATION OF REQUIRED DIVISION 27 AND 28 DEVICES WITH OTHER TRADE DRAWINGS AND OWNER PROVIDED EQUIPMENT.
9. ALL RACEWAY SYSTEMS INCLUDING CONDUITS, PULL STRINGS, AND BACK BOXES, TO SUPPORT THE INSTALLATION OF DIVISION 27 AND 28 EQUIPMENT SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. CONTRACTOR TO PROVIDE COORDINATION FOR THE INSTALLATION OF THIS RACEWAY SYSTEM WITH THE ELECTRICAL CONTRACTOR.
10. ELECTRICAL CONTRACTOR TO PROVIDE ALL SLEEVES AS REQUIRED FOR ALL LOW VOLTAGE CABLE PATHWAYS. RESTORE THE FIRE RATING OF THE SURFACE.
11. EACH TECHNOLOGY SYSTEMS OUTLET LOCATION SHOWN SHALL HAVE A DOUBLE GANG OUTLET BOX 4-11/16 INCHES X 4-11/16 INCHES X 2-3/4 INCHES WITH A SINGLE GANG PLASTER RING AND (1) ONE INCH CONDUIT, UNLESS OTHERWISE NOTED, STUBBED UP TO AN ACCESSIBLE LOCATION ABOVE THE FINISHED CEILING. WORK BY ELECTRICAL CONTRACTOR PER PLANS AND SPECIFICATIONS.
12. EACH TECHNOLOGY SYSTEMS OUTLET LOCATION SHOWN SHALL HAVE A CONDUIT WITH PULL STRING, STUBBED UP TO AN ACCESSIBLE LOCATION ABOVE THE FINISHED CEILING OR TO AN ACCESSIBLE CABLE TRAY WHERE PROVIDED.
13. EACH TECHNOLOGY FLOOR BOX MOUNTED ON THE FIRST FLOOR WITH A VOICE/DATA OUTLET SHALL HAVE A DOUBLE GANG SPACE WITHIN THE FLOOR BOX AND 1 INCH CONDUIT CONCEALED IN SLAB FROM THE OUTLET TO AN ACCESSIBLE LOCATION ABOVE THE FINISHED CEILING. WORK BY ELECTRICAL CONTRACTOR PER PLANS AND SPECIFICATIONS.
14. ALL BONDING AND GROUNDING ELEMENTS UTILIZED FOR THE STRUCTURE CABLING SYSTEM SHALL BE IN COMPLIANCE WITH PLANS AND SPECIFICATIONS.
15. CABLE WITHIN/UNDER SLAB ON GRADE USE OSP GEL-FILLED CABLES.
16. ALL MATERIALS AND EQUIPMENT PROVIDED UNDER THIS CONTRACT SHALL BE NEW AND CARRY A ONE YEAR MANUFACTURER'S WARRANTY. WARRANTY SHALL START ONE DAY AFTER OWNER'S ACCEPTANCE OF THE PROJECT.
17. CONTRACTOR TO PROVIDE AND INSTALL FIRE-STOPPING IN ALL CONDUITS PENETRATING RATED WALLS AFTER CABLING IS INSTALLED AND PROVIDE PHOTOGRAPHIC EVIDENCE OF COMPLIANCE WITH DOC. PLANS, AND SPECIFICATIONS.
18. ROUTE CABLING FOR EACH TECHNOLOGY SYSTEM BACK TO LOCAL HEAD-END TERMINATION BOARD OR CABINET AS SHOWN ON THE PLANS AND SPECIFICATIONS.
19. PROVIDE AND INSTALL TECHNOLOGY SYSTEMS CABLE/WIRING AS RECOMMENDED BY THE MANUFACTURER, APPLICABLE CODES AND STANDARDS, UNLESS OTHERWISE INDICATED ON DRAWINGS OR SPECIFICATIONS. WHERE CONFLICT EXISTS, THE LARGER SIZE SHALL BE USED.
20. TECHNOLOGY CABLES SHALL BE GROUPED IN BUNDLES OF 48 CABLES OR LESS.
21. TO AVOID EMI PROVIDE CLEARANCES OF THE FOLLOWING MINIMUM DISTANCES:
   A. 4" FROM MOTORS AND TRANSFORMERS
   B. 1' FROM ELECTRICAL CONDUITS USED FOR POWER DISTRIBUTION
   C. 1' FROM FLUORESCENT LIGHTING FIXTURES
22. TECHNOLOGY PATHWAYS SHALL CROSS FLUORESCENT FIXTURES AND POWER CONDUITS PERPENDICULARLY WITH PROPER SEPARATION.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULL COORDINATION OF ALL WORK AND EQUIPMENT IDENTIFIED IN THE DRAWINGS AND SPECIFICATIONS FOR A COMPLETE SOLUTION OF MULTIPLE, FULLY FUNCTIONAL TECHNOLOGY SYSTEMS AS DESCRIBED WITHIN THIS PACKAGE.
24. ALL DATA CABLING SHALL BE CAT-6A UNO.
25. BUILDING IS RETURN AIR PLENUM. PROVIDE PLENUM RATED CONDUITS, BOXES, RACEWAYS. AND MATERIALS...ETC
26. ALL DATA CABLING SHALL PLENUM RATED UNO.
27. ALL WIRELESS ACCESS POINT (WAP) LOCATIONS ARE DIAGRAMMATICAL. LOW VOLTAGE CONTRACTOR SHALL PERFORM SIGNAL STRENGTH ANALYSIS AND PRODUCE A HEAT MAP TO DETERMINE FINAL QUANTITY OF WIRELESS ACCESS POINTS.
28. WHERE EQUIPMENT, CABLE TERMINATIONS, PULL BOXES, OR OTHER EQUIPMENT OR MATERIALS ARE INSTALLED ABOVE INACCESSIBLE CEILINGS OR BEHIND WALLS THE CONTRACTOR SHALL PROVIDE AND INSTALL LOCKING ACCESS PANELS. ALL ACCESS PANELS SHALL BE KEYED ALIKE. REFER TO ARCHITECTURAL PLANS FOR ACCESS PANEL LOCATIONS WHEN REQUIRED.

CONDUIT ROUTING NOTES

1. ONLY EMT OR RIGID SHALL BE USED FOR ALL CONDUIT INSTALLATIONS ABOVE GRADE.
2. ALL BURIED CONDUITS SHALL BE A MINIMUM OF 36 INCHES BELOW GRADE. MAINTAIN A MINIMUM OF 1 FOOT (12 INCHES) OF SEPARATION BETWEEN POWER CONDUITS AND TECHNOLOGY SYSTEMS CONDUITS.
3. CONTRACTOR SHALL PROVIDE A MINIMUM 24 INCHES AGGREGATE BASE BELOW EACH MANHOLE, OR HANDHOLE.
4. ALL CONDUIT ENTRY PENETRATION POINTS MUST BE PROPERLY SEALED AND PACKED TO PREVENT GASES OR RODENT INTRUSION.
5. ALL MANHOLES, VAULTS, AND PULL BOXES MUST HAVE TRAFFIC RATED COVERS MINIMUM 20,000 LBS RATED.
6. ALL CONDUITS SHALL BE PROVIDED WITH PULL STRINGS AND PLASTIC BUSHINGS ON THE ENDS.
7. ALL CONDUITS BETWEEN BUILDINGS, MANHOLES, AND/OR VAULTS SHALL BE SLOPED DOWN AT 1% FROM THE BUILDING OR CENTER POINT BETWEEN VAULTS.
8. ALL UNDERGROUND CONDUITS SHALL BE CLEANED USING A MANDREL AFTER INSTALLATION AND PRIOR TO SYSTEM TURN-OVER.
9. TECHNOLOGY SYSTEM PATHWAYS IN ACCESSIBLE CEILING SPACES MAY BE PROVIDED UTILIZING DEDICATED CABLE SUPPORTS RATED FOR THE RESPECTIVE CEILING SPACE (PLENUM OR NON-PLENUM) AND INSTALLED PER APPLICABLE CODES AND STANDARDS. FOR NON-ACCESSIBLE CEILING SPACES A CONTINUOUS PATHWAY, CONDUITS SHALL BE PROVIDED.
10. ALL PATHWAYS SHALL BE SIZED AS RECOMMENDED BY THE MANUFACTURERS AND APPLICABLE CODES AND STANDARDS. NO PATHWAY CABLE FILL SHALL EXCEED 40% FILL.
11. FIRE ALARM, SECURITY, ACCESS CONTROL, CLOSED CIRCUIT VIDEO SURVEILLANCE, AND CABLING SHALL BE INSTALLED IN COLOR CODED AND LABELED CONDUITS AND JUNCTION BOXES, UNLESS OTHERWISE NOTED.
12. INTERIOR CONDUIT RUNS SHALL BE PROVIDED WITH PULL BOXES AT A MINIMUM OF EVERY 100 FEET OR AFTER TWO 90 DEGREE BENDS OR AFTER A TOTAL OF 180 DEGREES OF BENDS.
13. EXTERIOR CONDUIT RUNS SHALL BE PROVIDED WITH HANDHOLES AT A MINIMUM OF EVERY 300 FEET OR AFTER TWO 90 DEGREE BENDS OR AFTER A TOTAL OF 180 DEGREES OF BENDS.
14. BACKBONE RACEWAYS SHALL HAVE A MINIMUM SIZE OF 2 INCHES.
15. HORIZONTAL RACEWAYS SHALL HAVE A MINIMUM SIZE OF 3/4 INCHES.
16. SLEEVES SHALL BE INSTALLED ABOVE CEILINGS IN ALL WALLS, RATED OR NOT. SLEEVES SHALL BE SIZED AND IN THE QUANTITIES TO SUPPORT THE NUMBER OF CABLES AND FILL IS NOT TO EXCEED 40%.
17. THE USE OF SURFACE MOUNTED RACEWAYS IN NEW CONSTRUCTION IS NOT ACCEPTABLE. ALL SURFACE MOUNTED RACEWAY INSTALLATION MUST BE APPROVED BY OWNER PRIOR TO INSTALLATION.
18. WHEN INSTALLED IN ACCESSIBLE CEILING SPACES, APPROVED HOOKS SHALL BE INSTALLED TO CONFORM WITH BUILDING LINES AND BE SPACED NO MORE THEN 5 FEET APART. PROVIDE TWO HOOKS AT 90 DEGREE CORNERS.
19. CABLE BUNDLES SHALL BE SECURED WITH VELCRO EVERY 2 FEET AND SHALL ALSO BE SECURED TO HOOKS.
20. CABLE SAG BETWEEN HOOKS SHALL NOT EXCEED 2 INCHES.
21. EACH TECHNOLOGY SYSTEM CABLING SHALL BE BUNDLED SEPARATELY AND SHALL HAVE SEPARATE SUPPORT BRACKETS.
22. WHERE EQUIPMENT, CABLE TERMINATIONS, PULL BOXES, OR OTHER EQUIPMENT OR MATERIALS ARE INSTALLED ABOVE INACCESSIBLE CEILINGS OR BEHIND WALLS THE CONTRACTOR SHALL PROVIDE AND INSTALL LOCKING ACCESS PANELS. ALL ACCESS PANELS SHALL BE KEYED ALIKE.

ABBREVIATIONS

AC	ACCESS CONTROL (SECURITY)
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ANNUN	ANNUNCIATOR
ARCH	ARCHITECT
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATED SYSTEMS
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BICSI	BUILDING INDUSTRY CONSULTANT SERVICES INTERNATIONAL
BLDG	BUILDING
C	CONDUIT
CA	CARD ACCESS (SECURITY)
CAB	CABINET
CAT	CATEGORY
CATV	COMMUNITY ACCESS TELEVISION
CCTV	CLOSED CIRCUIT TV (SECURITY)
CKT	CIRCUIT
CU	COPPER
DEMARK	SERVICE PROVIDER TERMINATION
DN	DOWN
E	EXISTING
ER	EQUIPMENT ROOM
ERL	EXISTING TO BE RELOCATED
ETR	EXISTING TO REMAIN
EXT	INTERNAL OUTLET FOR EXTERNAL DEVICE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FOB	FURNISHED BY OTHERS
FT	FEET
GND	GROUND
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPT
HC	HORIZONTAL CROSS CONNECT
HDMI	HIGH DEFINITION MEDIA INTERFACE
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED GROUND
KVA	KILOVOLT - AMPERES
KW	KILOWATTS
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MDF	MAIN DISTRIBUTION FRAME
MISC	MISCELLANEOUS
NEC	NATIONAL ELECTRICAL CODE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NIC	NOT IN CONTRACT
OC	ON CENTER LINE
OF	OWNER FURNISHED
OFOI	OWNER FURNISHED OWNER INSTALLED
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOVI	OWNER FURNISHED OWNER'S VENDOR INSTALLED
PDS	PREMISE DISTRIBUTION SYSTEM
PM	PROJECT MANAGER
POS	POINT OF SALE
PTZ	PAN, TILT ZOOM CAMERA
PVC	POLYVINYL CHLORIDE
R	RECESSED
RCDD	REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
RGB	15 PIN AV CONNECTOR
RK	RACK
SATV	SATELLITE TV SOURCE
SURF	SURFACE
SVGA	15 PIN AV CONNECTOR
TGB	TELCOM GND BUS BAR
TMGB	TELCOM MAIN GND BUS BAR
TSER	TELECOMMUNICATIONS SERVICE
TV	TELEVISION
UNIV	UNIVERSAL
UON	UNLESS OTHERWISE NOTED
USB	UNIVERSAL SERIAL BUS
USC	UNDER SEPARATE CONTRACT
UTP	UNIFORM TWISTED PAIRS
VGA	15 PIN AV CONNECTORS
W	WALL MOUNTED
WAP	WIRELESS ACCESS POINT
WP	WEATHERPROOF

ADDITIONAL ABBREVIATIONS MAY BE USED AND IDENTIFIED IN THE SPECIFICATIONS OR DRAWINGS.

CABLE COLORING CONVETION	
DATA - (COMPUTERS, HVAC, IRRIGATION, METERS, SMART DEVICES...ETC)	BLUE
PHONE - (IP BASED TEAMS PHONES)	RED
ACCESS POINTS (APs, WAPS)	GREEN
CCTV (CAMERAS)	PURPLE
ACCESS CONTROL	YELLOW

CONDUIT - TRADE SIZE (INCHES) EMT	CABLE OUTSIDE DIAMETER *
	CAT-6A U/UTP ~ 0.230
	# OF CABLES (40% FILL)
3/4	5
1	8
1-1/4	14
1-1/2	19
2	32
2-1/2	56
3	85
3-1/2	111
4	142
*BOD: LANMARK LM-RDT CAT6A UTP CMP	

CONDUIT - TRADE SIZE (INCHES) SCH-40	CABLE OUTSIDE DIAMETER *
	CAT-6A U/UTP ~ 0.230
	# OF CABLES (40% FILL)
3/4	4
1	8
1-1/4	13
1-1/2	19
2	31
2-1/2	45
3	69
3-1/2	93
4	120
*BOD: LANMARK LM-RDT CAT6A UTP CMP	

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PROJECT NAME
RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
GENERAL NOTES - TECHNOLOGY

SHEET NUMBER
T0.01E

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/RBPD_Evidence and Firing Range_MEPF_R24.rvt
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SPECIAL NOTE:

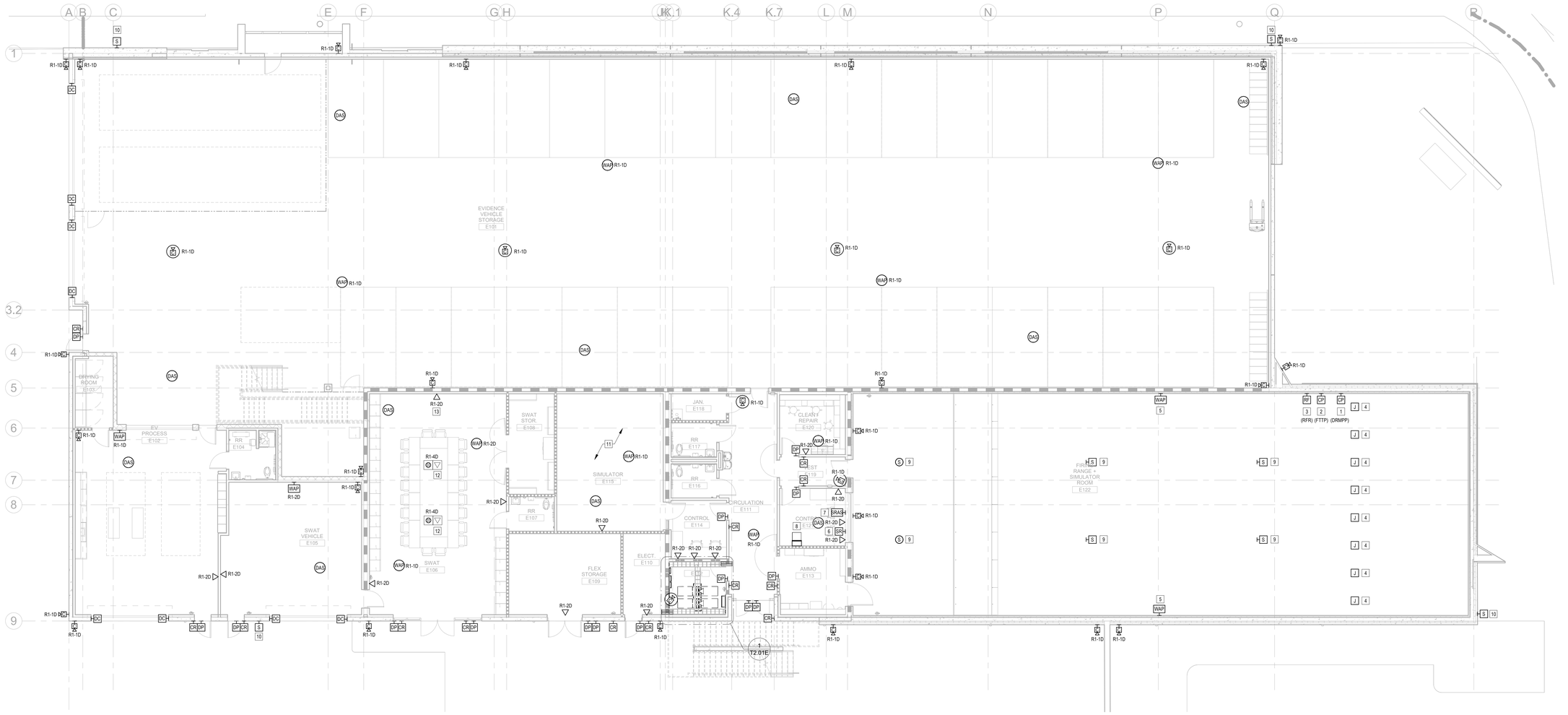
REFER TO SHEET E4.03 FOR DATA AND CCTV LOW VOLTAGE REQUIREMENTS.

KEYNOTES:

1. PROVIDE (2) 3/4" CONDUITS FROM DRM PRO PANEL (DRMPP) TO MINI SERVER RACK LOCATED IN FIRING RANGE CONTROL ROOM. COORDINATE FINAL CONNECTION REQUIREMENTS WITH FIRING RANGE DRAWINGS PRIOR TO ROUGH-IN. LOW VOLTAGE CABLING BY OTHERS.
2. PROVIDE (2) 3/4" CONDUITS FROM FIXED TURNING TARGET PANEL (FTTP) TO MINI SERVER RACK LOCATED IN FIRING RANGE CONTROL ROOM. COORDINATE FINAL CONNECTION REQUIREMENTS WITH FIRING RANGE DRAWINGS PRIOR TO ROUGH-IN. LOW VOLTAGE CABLING BY OTHERS.
3. PROVIDE (1) 3/4" CONDUIT FROM FIXED TURNING PANEL TO RADIO FREQUENCY RECEIVER. COORDINATE FINAL CONNECTION REQUIREMENTS WITH FIRING RANGE DRAWINGS PRIOR TO ROUGH-IN. LOW VOLTAGE CABLING BY OTHERS.
4. PROVIDE (1) 3/4" CONDUIT FROM FIXED TURNING PANEL TO TARGET LINE JUNCTION BOX. COORDINATE FINAL CONNECTION REQUIREMENTS WITH FIRING RANGE DRAWINGS PRIOR TO ROUGH-IN. J-BOX BY EC. LOW VOLTAGE CABLING BY OTHERS.
5. PROVIDE (1) 3/4" CONDUIT FROM FIRING RANGE WIRELESS ACCESS POINT TO MINI SERVER RACK LOCATED IN FIRING RANGE CONTROL ROOM. WAP PROVIDED BY FIRING RANGE MFR. COORDINATE FINAL CONNECTION REQUIREMENTS WITH FIRING RANGE DRAWINGS PRIOR TO ROUGH-IN. LOW VOLTAGE CABLING BY OTHERS.
6. PROPOSED LOCATION FOR FIRING RANGE MINI SERVER RACK. COORDINATE FINAL LOCATION WITH FIRING RANGE DRAWINGS PRIOR TO ROUGH-IN.
7. PROVIDE (1) 3/4" CONDUIT FROM FIRING RANGE MINI SERVER RACK TO SMART RANGE ACCESS SCREEN (SRAS). COORDINATE FINAL CONNECTION REQUIREMENTS WITH FIRING RANGE DRAWINGS PRIOR TO ROUGH-IN.
8. PROVIDE WALL MOUNTED ENCLOSED AV CABINET. CABINET SHALL HOST AUDIO NETWORKING EQUIPMENT FOR RANGE SPEAKER SYSTEM AND EXTERIOR WHITE NOISE GENERATION SPEAKERS. MOUNT 5'-0" AFF.
   BOD: CHATSWORTH CUBE-IT 24"X24"X24"
9. PROPOSED SPEAKER LOCATION. PROVIDE SPEAKER AND SPEAKER WIRE WITH CONDUITS AND BOXES BACK TO FIRING RANGE AV RACK LOCATED IN FIRING RANGE CONTROL ROOM.
10. PROPOSED SPEAKER LOCATION. PROVIDE CONDUITS AND BOXES (INFRASTRUCTURE) FOR FUTURE WHITE NOISE GENERATOR SYSTEM. COORDINATE FINAL SPEAKER JUNCTION BOX LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
11. PROVIDE ADDITIONAL RACEWAY, CONDUITS AND BOXES BACK TO IT ROOM. FINAL SIMULATOR DESIGN TO BE DETERMINED AT A LATER DATE.
12. HOMERUN (1) 1" CONDUIT FROM FLOOR BOX TO IT ROOM. REFER TO SHEET E2.01E FOR FLOOR BOX SPECIFICATIONS. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH OTHER TRADES PRIOR TO ROUGH-IN
13. PROVIDE DATA CONNECTION FOR SMARTBOARD. COORDINATE ADDITIONAL CONNECTION REQUIREMENTS WITH SMARTBOARD MANUFACTURER AND END USER PRIOR TO ROUGH-IN.

GENERAL NOTES:

1. CONTRACTOR SHALL ADHERE TO ALL INDUSTRY STANDARDS AND LOCAL BUILD REQUIREMENTS AS IDENTIFIED IN THE DRAWINGS AND SPECIFICATIONS.
2. CONTRACTORS SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS OF THE PLANS AND SPECIFICATIONS FOR A COMPLETE AND OPERATIONAL SYSTEM.
3. COORDINATE EXACT INSTALLATION REQUIREMENTS OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS AND ACCEPTED MILLWORK SHOP DRAWINGS.
4. BACKBOXES FOR TECHNOLOGY EQUIPMENT SHALL BE OFFSET INTO SEPARATE STUD CAVITIES FROM BOXES SERVING ADJACENT SPACES WHEREVER POSSIBLE. CONTRACTOR SHALL COORDINATE FINAL ROUGH-IN LOCATION OF ALL DEVICES WITH APPROVED FURNITURE PLANS TO ASSURE THAT DATA/VOICE OUTLETS ARE ACCESSIBLE AND THAT CABLE OR PLUG CONNECTIONS DO NOT CONFLICT WITH INTENDED FURNITURE PLACEMENT.
5. COORDINATE THE LOCATION OF VOICE/DATA/AV OUTLETS WITH POWER RECEPTACLES WHERE EQUIPMENT SHALL BE SERVED BY MULTIPLE SYSTEMS. COORDINATE WITH POWER DRAWINGS.
6. RACEWAY, TECHNOLOGY, AND GROUNDING REQUIREMENTS SHALL COMPLY WITH SECTIONS OF DIVISION 26 AND 27. WHERE A CONFLICT ARISES THE MOST STRINGENT REQUIREMENTS SHALL APPLY.
7. ALL RACEWAY TERMINATIONS SHALL HAVE BUSHINGS AND SHALL BE GROUNDED WHERE RACEWAY IS METALLIC.
8. ALL RACEWAYS AND CABLE INSTALLED IN FINISHED SPACES SHALL BE CONCEALED UNLESS NOTED OR APPROVED IN WRITING BY OWNER AND/OR ENGINEER.
9. REFER TO MANUFACTURER OF EACH EQUIPMENT ITEM FOR EXACT DATA REQUIREMENTS PRIOR TO ROUGH-IN.
10. ALL PATHWAYS SHOWN ARE CONDUITS WITH 12" RADIUS ELBOWS WHERE REQUIRED, UNLESS NOTED OTHERWISE. PLASTIC BUSHINGS AND PULL STRINGS ARE REQUIRED IN ALL CONDUITS.
11. STUB ALL CONDUITS 4" BEYOND WALLS OR FLOORS THEY ARE PENETRATING AT A MINIMUM. INSTALL PLASTIC BUSHINGS. SEAL CONDUITS AFTER INSTALLATION OF CABLES. SEAL ALL UNUSED CONDUITS WITH A REMOVABLE PLUG.
12. CABLE TRAY LAYOUT IS DIAGRAMMATIC. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND ADD SECTIONS AND ACCESSORIES AS NEEDED TO AVOID CONFLICTS WITH OTHER TRADES WHILE MAINTAINING CABLE QUANTITIES.
13. DIVISIONS 26, 27, AND 28 CONTRACTORS SHALL COORDINATE TO PROVIDE PROPER INFRASTRUCTURE REQUIREMENTS (CONDUITS AND BOXES) FOR ALL ACCESS CONTROL AND SECURITY REQUIREMENTS WITH ARCHITECTURAL PLANS INCLUDING DOOR SCHEDULES.



OVERALL FIRST FLOOR PLAN - TECHNOLOGY 1/8" = 1'-0" (1)

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1621 WEST BLUE HERON BLVD.
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1007657.00

SHEET TITLE

FLOOR PLAN - EVIDENCE/FIRING RANGE - TECHNOLOGY

SHEET NUMBER

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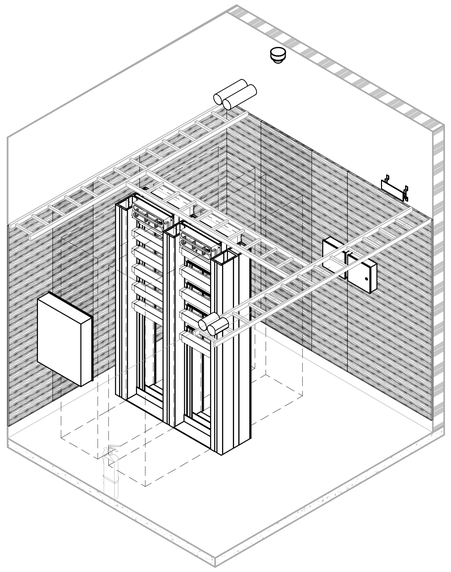
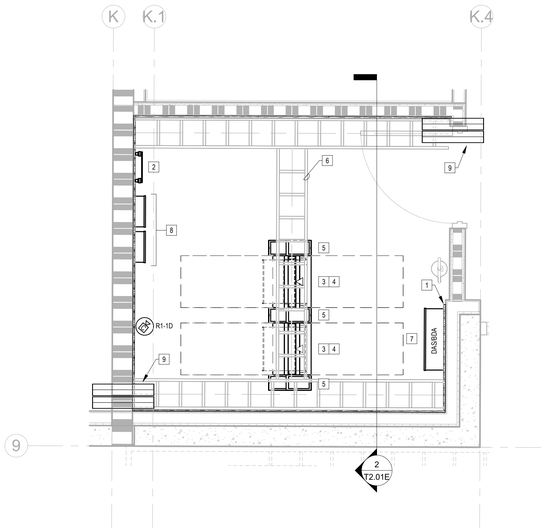


3 3D VIEW - IT ROOM



1 ENLARGED IT ROOM PLAN
1/2" = 1'-0"

DATA CABLE QUANTITIES

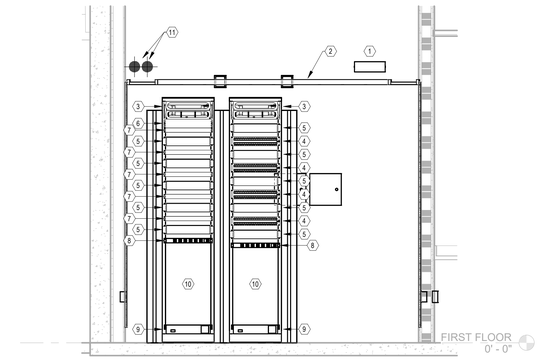
MARK	DAS COAX	CAT-6A	NOTES
TOTAL	11	86	-
NOTES:			

GENERAL NOTES:

1. CONTRACTOR SHALL ADHERE TO ALL INDUSTRY STANDARDS AND LOCAL BUILDING REQUIREMENTS AS IDENTIFIED IN THE DRAWINGS AND SPECIFICATIONS AND DESIGN CRITERIA.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS OF THE PLANS AND SPECIFICATIONS FOR A COMPLETE AND OPERATIONAL SYSTEM.
3. CONTRACTOR TO PROVIDE AND INSTALL ALL EQUIPMENT, RACKS AND CABINETS IDENTIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS.
4. CONTRACTOR TO GROUND ALL CABLE TRAY, RACKS AND CABINETS AND BOLT ALL RACKS AND CABINETS TO THE FLOOR. SEE DETAIL SHEETS FOR ADDITIONAL REQUIREMENTS.
5. ALL ELECTRICAL POWER CONNECTION AND BUILDING GROUNDING SYSTEM BY DIVISION 26 CONTRACTOR.
6. COORDINATE LABELING WITH OWNER'S I.T. DEPARTMENT. PROVIDE ACCURATE LABELING AT TERMINATION RACKS, WORKSTATION FACEPLATES AND ON AS-BUILT DRAWINGS PER PLANS AND SPECS.
7. CONTRACTOR SHALL MAINTAIN CODE REQUIRED CLEARANCES AND INFORM ENGINEER OF ANY CLEARANCE CONFLICT.
8. EQUIPMENT SHOWN IN ENLARGED PLANS IS FOR DESIGN PURPOSES. THE OWNER IS RESPONSIBLE FOR CORRECT NUMBER OF NETWORK SWITCHES, EQUIPMENT. THE CONTRACTOR IS RESPONSIBLE FOR INFRASTRUCTURE AND CABLE MANAGEMENT.
9. EQUIPMENT SHOWN IN THE ENLARGED PLANS IS FOR DESIGN PURPOSES ONLY. THE CONTRACTOR SHALL RELOCATE RACKS/PANELS/CABLES TRAY AS REQUIRED FOR CONTRACTIBILITY PURPOSES FOR A ORGANIZED AND CLEAN INSTALLATION.
10. COORDINATE CONDUIT PENETRATIONS WITH ELECTRICAL CONTRACTOR WHERE ELECTRICAL AND I.T. ROOMS ARE STACKED ABOVE ONE ANOTHER PRIOR TO ROUGH-IN REGARDLESS OF WHAT IS SHOWN ON THE PLANS.

KEYNOTES:

1. PROVIDE 48"X96"X3/4" MARINE GRADE PLYWOOD BACKBOARD WRAPPED AROUND ROOM. MOUNT BACKBOARDS ABOVE WALL OUTLET HEIGHT. BACKBOARDS SHALL RECEIVE TWO (2) COATS OF FIRE RETARDANT WHITE PAINT. (CFCI)
2. PROVIDE NEW 4"X12" TELECOMMUNICATIONS GROUND BUS BAR. CONNECT TO BUILDING GROUND, GROUND LADDER RACK AND 2-POST RACKS. (CFCI)
3. PROVIDE STANDARD 8'-0" HIGH x 19" WIDE ALUMINUM FLOOR MOUNTED 2-POST RACK, BLACK FINISH. PROVIDE A RACK RADIUS DROP AT EACH WIRE MANAGER FOR PROPER TRANSITION OF HORIZONTAL WIRING AND TO PROTECT CABLING. PROVIDE WITH GROUND TERMINAL BLOCK. BOD: CHATSWORTH UNIVERSAL OR APPROVED EQUAL. (CFCI)
4. PROVIDE RACKS WITH HORIZONTAL CABLE MANAGERS. COORDINATE WITH OWNER'S IT REPRESENTATIVE. BOD: CHATSWORTH VELOCITY OR APPROVED EQUAL. (CFCI)
5. PROVIDE VERTICAL DUAL SIDED MANAGER 8'-0" - COORDINATE WITH OWNER'S IT REPRESENTATIVE. BOD: CHATSWORTH VELOCITY OR APPROVED EQUAL. (CFCI)
6. PROVIDE NEW LADDER TRAY. MINIMUM WIDTH IS 12". PROVIDE WITH RADIUS DROPS WHEN OVER RACKS. COORDINATE LAYOUT WITH OWNER'S IT REPRESENTATIVE. BOD: CHATSWORTH UNIVERSAL CABLE RUNWAY OR APPROVED EQUAL (CFCI)
7. DAS/BDA CONTROL PANEL LOCATION. COORDINATE FINAL LOCATION WITH OTHER TRADES PRIOR TO ROUGH-IN.
8. SPACE PROVIDED FOR WALL MOUNTED EQUIPMENT PANELS AND 110 BLOCKS.
9. PROVIDE 4" SPEED SLEEVE FOR HORIZTONAL CABLING DISTRIBUTION. COORDINATE FLOOR AND WALL PENETRATIONS FOR HORIZONTAL CABLING WITH OTHER TRADES PRIOR TO ROUGH-IN. (TYPICAL)



2 Section 7
1/2" = 1'-0"

KEYNOTES:

1. TELECOMMUNICATION GROUND BUS BAR. (CFCI)
2. LADDER RACKING. (CFCI)
3. 4RU RACK MOUNTED FIBER ENCLOSURE. (CFCI)
4. 2RU CAT-6A PATCH PANEL. (TYPICAL) (CFCI)
5. 2RU HORIZONTAL WIRE MANAGER. (TYPICAL) (CFCI)
6. 2RU BLANKING PLATE. (TYPICAL) (CFCI)
7. PROVIDE 1RU BLANKING PLATE. SPACE IS RESERVED FOR OWNER PROVIDED NETWORK SWITCH. (TYPICAL) (CFCI)
8. 1RU RACK MOUNTED POWER DISTRIBUTION UNIT. (CFCI)
9. LITHIUM-ION RACK MOUNTED UPS. LOCATE AT BOTTOM OF RACK. (CFCI)
10. RACK SPACE PROVIDED FOR OWNER'S AND SERVICE PROVIDER'S NETWORKING EQUIPMENT.
11. HILTI SPEED SLEEVES. (CFCI)
12. L6-30R TWIST LOCK RECEPTACLES. (CFCF)

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PROJECT NUMBER

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SHEET TITLE

ENLARGED PLANS - TECHNOLOGY

SHEET NUMBER

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CONDUIT SCHEDULE

MARK	RACEWAY	NOTES
A	(2) SETS OF 4" CONDUIT	(1)
B	(1) 1-1/4" CONDUIT	(2)

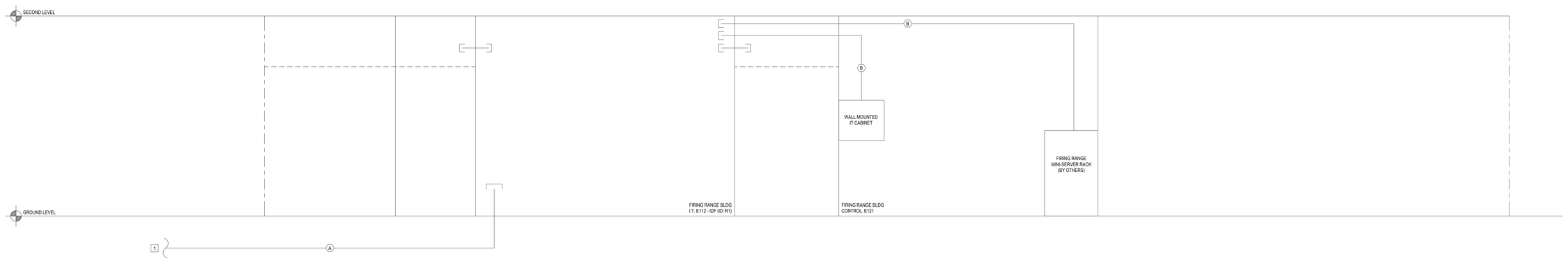
NOTES: 1. PROVIDE (2) 3-CELL 4" MAXCELL INNERDUCTS IN EACH CONDUIT.

GENERAL NOTES:

1. NO MORE THAN TWO (2) 90-DEGREE SWEEPS SHALL BE USED BETWEEN THE SERVICE ENTRANCE MANHANDHOLES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS OF THE PLANS AND SPECIFICATIONS FOR A COMPLETE AND OPERATIONAL SYSTEM.
3. ALL ELECTRICAL POWER CONNECTIONS AND BUILDING GROUNDING SYSTEM BY THE DIVISION 26 CONTRACTOR.
4. ALL SLEEVES SHALL BE TERMINATED WIT BUSHINGS TO PREVENT DAMAGE OF CABLES.
5. THE CONTRACTOR SHALL PROVIDE DATA CABLING APPROPRIATE FOR THE ENVIRONMENT (PLENUM/RISER/OSP)THEY ARE TO BE INSTALLED IN.
6. PERFORM WIRELESS SIGNAL STRENGTH TEST SURVEY. WIRELESS SIGNAL STRENGTH TEST SHALL DETERMINE THE FINAL LOCATION OF WIRELESS ACCESS POINTS AND QUANTITIES REGARDLESS OF WHAT IS ON THE PLANS.

KEYNOTES:

1. PROVIDE CONDUIT AND BOXES FROM EVIDENCE/GUN RANGE IDF TO MAIN BUILDING MDF. COORDINATE ROUTING WITH OTHER TRADES PRIOR TO START OF ANY UNDERGROUND WORK.



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RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
CONDUIT RISER DIAGRAM - TECHNOLOGY

SHEET NUMBER
T3.01E

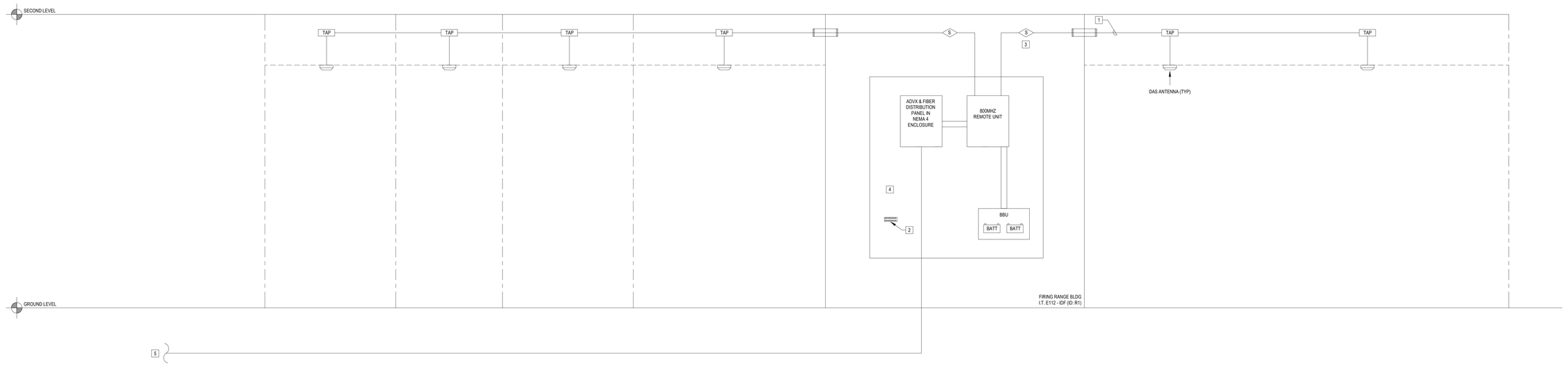
FILE NAME: Autodesk Docs:// 1007657.00 - CORE - City of Riviera Beach D/RBPD_Evidence and Firing Range_MEPF_R24.rvt
DATE STAMP: 10/23/2025 11:41:59 AM

GENERAL NOTES:

1. CONTRACTOR SHALL PERFORM A RADIO SIGNAL COVERAGE ANALYSIS ONCE THE SHELL OF THE BUILDING IS CONSTRUCTED THROUGH A LICENSED BDA/DAS SIGNAL TESTER. IN THE EVENT THE RADIO SIGNAL COVERAGE DOES NOT MEET THE AHJ'S SIGNAL REQUIREMENTS OR THE MINIMUM REQUIREMENTS SET FORTH BY THE NFPA (2019 EDITION) THE CONTRACTOR SHALL WORK WITH A LICENSED BDA/DAS VENDOR FOR A COMPLETE DESIGN TO BE PROVIDED AND INCORPORATED AS PART OF THE CONTRACT.
2. CONTRACTOR TO PROVIDE THE INFRASTRUCTURE REQUIRED FOR THE DAS SYSTEM. CONSTRUCTION MANAGER AND ELECTRICAL CONTRACTOR TO COORDINATE WITH THE DAS DESIGN BUILD TEAM TO IDENTIFY THE SYSTEM REQUIREMENT PRIOR THE CONSTRUCTION PHASE.
3. DAS DESIGN BUILD TEAM AND CONTRACTOR SHALL ADHERE TO ALL INDUSTRY STANDARDS, LOCAL BUILD REQUIREMENTS, NFPA, AND IFC SET REGULATIONS AS WELL AS WORK WITH THE LOCAL GOVERNMENT TO ENSURE THAT REQUIREMENTS AND MEASURES ARE SET IN PLACE.
4. DAS DESIGN BUILD TEAM SHALL BE RESPONSIBLE FOR THE CORRECT LOCATIONS AND QUANTITIES OF THE OMNI COVERAGE ANTENNAS UPON COMPREHENSIVE RADIO FREQUENCY SURVEY AND FORMAL DESIGN REQUIRED FOR THE ENTIRE PUBLIC SAFETY DAS PROJECT TO FURNISH A COMPLETELY OPERATIONAL SYSTEM PER NFPA, IFC REGULATIONS AND THE LOCAL GOVERNMENT REQUIREMENTS.
5. DAS DESIGN BUILD CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS OF THE PLANS AND SPECIFICATIONS FOR A COMPLETE AND OPERATIONAL SYSTEM.
6. DAS DESIGN BUILD CONTRACTOR TO PROVIDE AND INSTALL ALL EQUIPMENT, RACKS AND CABINETS IDENTIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS.
7. DAS DESIGN BUILD CONTRACTOR TO GROUND ALL CABLE TRAY, RACKS AND CABINETS AND BOLT ALL RACKS AND CABINETS TO THE FLOOR. SEE DETAIL SHEETS FOR ADDITIONAL REQUIREMENTS.
8. ALL ELECTRICAL POWER CONNECTION AND BUILDING GROUNDING SYSTEM BY DIVISION 26 CONTRACTOR.
9. CONTRACTOR TO PROVIDE A BID ALTERNATE FOR A COMBINED SYSTEM FOR PUBLIC SAFETY AND CELLULAR DAS SYSTEM.
10. ALL RISER CABLING TO BE PROTECTED BY ASSEMBLY OF
A.) INTERNAL TWO-HOUR FIRE RATED CONDUIT (CHAMPION FLAME SHIELD PHENOLIC CONDUIT - FOR MANDATED FIRE PROTECTION AND B.) EXTERNAL EMT CONDUIT FOR MECHANICAL STRENGTH RIGIDITY.

KEYNOTES:

1. 1/2" COAX PLENUM CABLE SHALL BE ROUTED IN CONDUIT RACEWAY TO EACH LOCAL ANTENNA. CONTRACTOR TO PROVIDE 2" SLEEVE WHEN PENETRATING FLOOR/WALL AND SEAL BOTH ENDS SLEEVE AFTER CABLE INSTALLATION WITH FIRE STOPPING WHICH MEETS THE RESPECTIVE FLOOR/WALL RATING AND PATHWAY SURVIVABILITY.
2. CONTRACTOR TO PROVIDE GROUNDING FOR ALL NEW INSTALLED EQUIPMENTS.
3. ALL TAPS AND SPLITTERS SHALL BE INSTALLED INSIDE JUNCTION BOX 12" X 12" X 6" MOUNTED TO BUILDING STRUCTURE WITH HINGED COVER (TYPICAL).
4. PROVIDE PLYWOOD BACKBOARD, BACKBOARDS SHALL BE 3/4" THICK AC GRADE PLYWOOD. PRIME WITH TWO COATS FIRE RETARDANT PRIMER, SANDING SMOOTH AFTER EACH COAT. FINISH WITH TWO COATS FIRE RETARDANT PAINT, COLOR LIGHT GRAY.
5. PROVIDE (1) 2" CONDUIT FROM FROM BDA REMOTE UNIT TO BDA HEAD END SYSTEM IN MAIN BUILDING. REFER TO SHEET T3.02 FOR ADDITIONAL INFORMATION.



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CLIENT

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DRAWING HISTORY

No.	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

CONSULTANT

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PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

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RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

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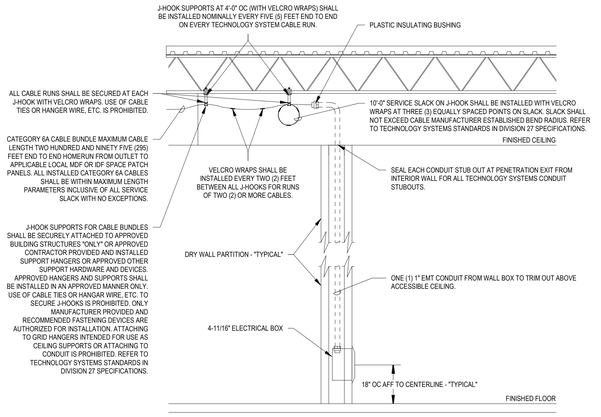
1007657.00

SHEET TITLE
BDA RISER DIAGRAM - TECHNOLOGY

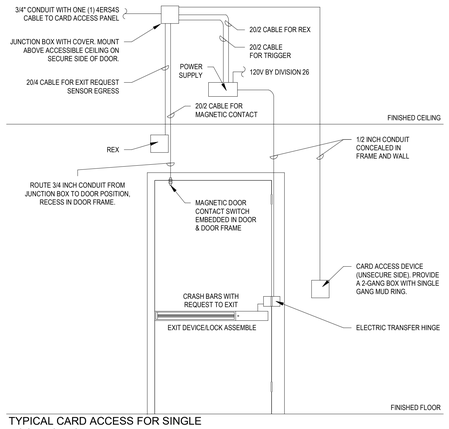
SHEET NUMBER
T3.02E



8 TYPICAL FLUSH MOUNTED OUTLET
NTS

NOTES:

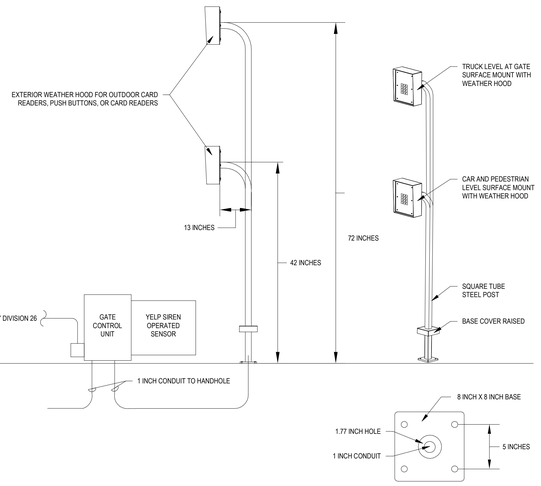
1. REFER TO DIVISION 26, DIVISION 27, AND DIVISION 28 SPECS FOR ANY COMPONENTS NEEDED FOR FULLY WORKING SYSTEM.



9 TYPICAL CARD ACCESS FOR SINGLE DOOR - CRASH BAR
NTS

NOTES:

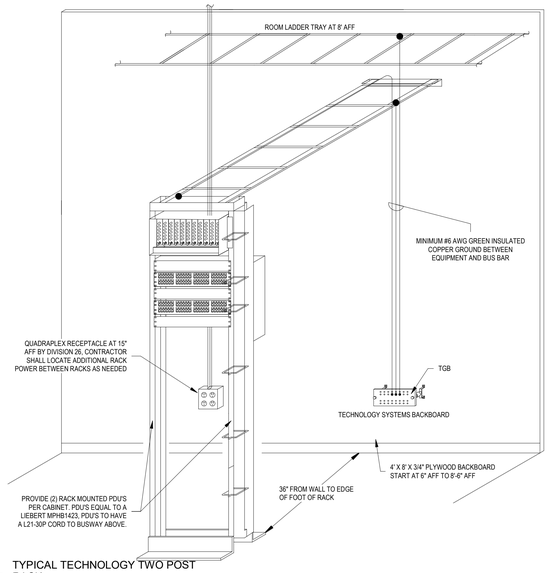
1. REFER TO SITE PLAN FOR ENTRY PEDESTAL LOCATIONS.
2. REFER TO POWER AND ARCHITECTURAL PLANS AND SPECS FOR COORDINATION AS NEEDED.
3. REFER TO DIVISION 26, DIVISION 27, AND DIVISION 28 SPECS FOR ANY COMPONENTS NEEDED FOR FULLY WORKING SYSTEM.



10 TYPICAL CARD ACCESS FOR ENTRY PEDESTAL
NTS

NOTES:

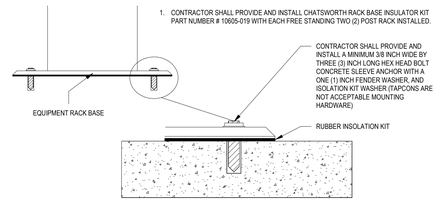
1. TIGHT METAL TO METAL CONTACT BETWEEN TRAY SEGMENTS, SUPPORTS AND RACK.
2. ANCHOR LADDER TRAY WALL BRACKETS WITH TAPCONS OR OTHER APPROVED FASTENERS.
3. DRILL A NEW HOLE IN RACKS FOR ATTACHING GROUND KIT. DO NOT USE EXISTING MOUNTING HOLES.
4. BOLT THROUGH FASTENER.



4 TYPICAL TECHNOLOGY TWO POST RACK
NTS

NOTES:

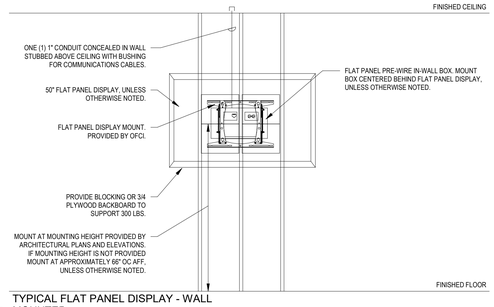
1. CONTRACTOR SHALL PROVIDE AND INSTALL CHATSWORTH RACK BASE INSULATOR KIT PART NUMBER # 10605-019 WITH EACH FREE STANDING TWO (2) POST RACK INSTALLED.



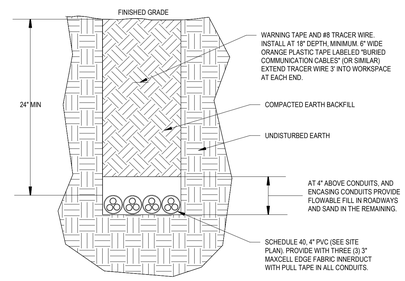
5 TYPICAL TWO POST RACK FLOOR MOUNTING
NTS

NOTES:

1. REFER TO POWER PLANS FOR CIRCUIT AND ROUTING REQUIREMENTS, ALONGSIDE ANY POWER RECEPTACLES AND THE TYPE OF RECEPTACLE BEING USED.



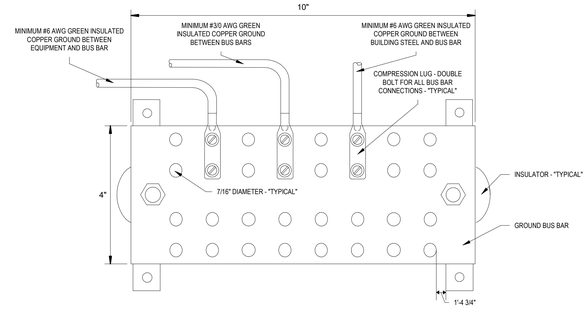
6 TYPICAL FLAT PANEL DISPLAY - WALL MOUNTED
NTS



7 TYPICAL CONDUIT TRENCHING/BORING
NTS

NOTES:

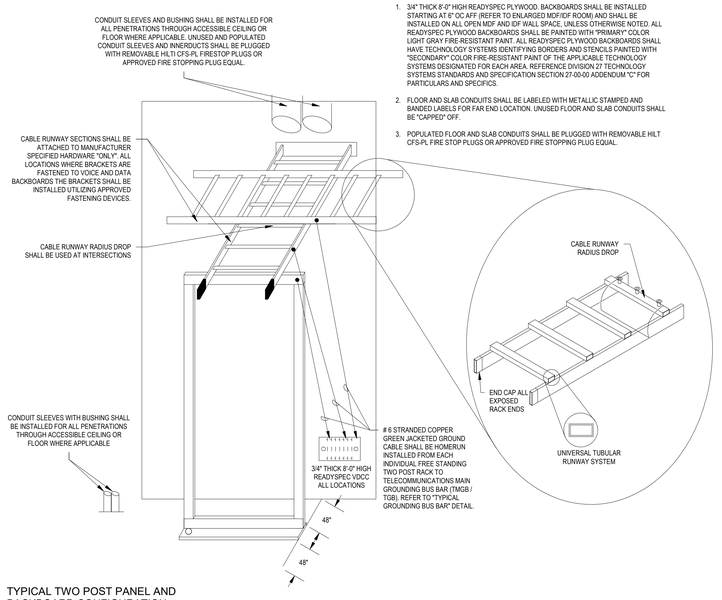
1. ALL CABLING TYPES SHALL HAVE WRITTEN LABELS DENOTING FAR END TERMINATION POINT.
2. REQUIRED SIZE FOR CABLING TO BE CALCULATED BY DESIGN.



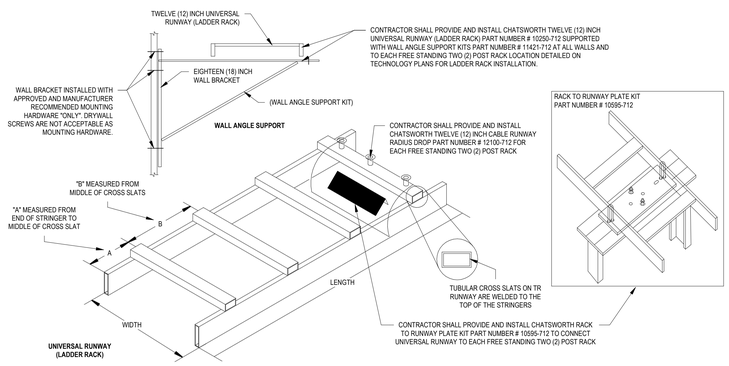
1 TYPICAL GROUNDING BUS BAR
NTS

NOTES:

1. 3/4" THICK 8'-0" HIGH READYSPEC PLYWOOD. BACKBOARDS SHALL BE INSTALLED STARTING AT 6" OC AFF (REFER TO ENLARGED MDF/IDF ROOM) AND SHALL BE INSTALLED ON ALL OPEN MDF AND IDF WALL SPACE, UNLESS OTHERWISE NOTED. ALL READYSPEC PLYWOOD BACKBOARDS SHALL BE PAINTED WITH "PRIMARY" COLOR LIGHT GRAY FIRE-RESISTANT PAINT. ALL READYSPEC PLYWOOD BACKBOARDS SHALL HAVE TECHNOLOGY SYSTEMS IDENTIFYING BORDERS AND STENCILS PAINTED WITH "SECONDARY" COLOR FIRE-RESISTANT PAINT OF THE APPLICABLE TECHNOLOGY SYSTEMS DESIGNATED FOR EACH AREA. REFERENCE DIVISION 27 TECHNOLOGY SYSTEMS STANDARDS AND SPECIFICATION SECTION 27-00-00 ADDENDUM "C" FOR PARTICULARS AND SPECIFICS.
2. FLOOR AND SLAB CONDUITS SHALL BE LABELED WITH METALLIC STAMPED AND BANDED LABELS FOR FAR END LOCATION. UNUSED FLOOR AND SLAB CONDUITS SHALL BE "CAPPED" OFF.
3. POPULATED FLOOR AND SLAB CONDUITS SHALL BE PLUGGED WITH REMOVABLE HILT CFS-PL FIRE STOP PLUGS OR APPROVED FIRE STOPPING PLUG EQUAL.



2 TYPICAL TWO POST PANEL AND BACKBOARD CONFIGURATION
NTS



3 TYPICAL LADDER RACK
NTS

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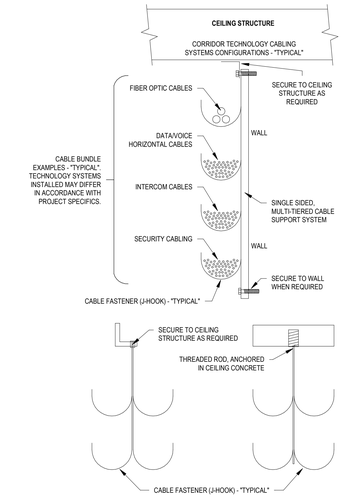
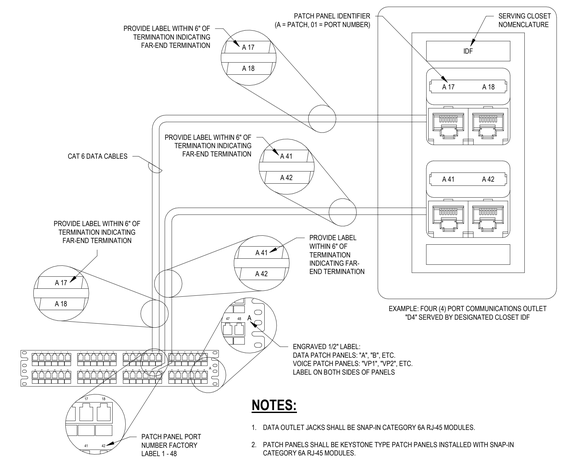


NOTES:

1. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE AND INSTALL THEIR OWN SEPARATE TRADE SPECIFIC CABLE SUPPORT SYSTEMS FOR ALL INSTALLATIONS. THIS REQUIREMENT IS APPLICABLE FOR MAIN CABLE BUNDLES AS WELL AS INDIVIDUAL STATION AND FIELD DEVICE CABLE RUNS.
2. THE CONTRACTOR SHALL PROVIDE CABLE FASTENERS AND HARDWARE AS SPECIFIED AND REQUIRED BY THE J-HOOK MANUFACTURER AS WELL AS ALL REQUIRED AND APPROVED COMPONENTS.
3. ALL NEWLY INSTALLED J-HOOK SUPPORT SYSTEMS SHALL BE APPROPRIATELY SIZED TO ACCOMMODATE A FORTY (40) PERCENT INCREASE IN GROWTH CAPACITY UPON COMPLETION OF EACH NEW INSTALLATION. DURING NEW CABLING INSTALLATIONS WHERE THE MANUFACTURER'S CABLE FILL RATIO REQUIREMENTS ARE EXCEEDED THE CONTRACTOR SHALL BE REQUIRED TO INSTALL ADDITIONAL J-HOOK FASTENERS TO ACCOMMODATE THE OVERFILL CABLES.
4. FOR NEW CONSTRUCTION CABLE SUPPORT SYSTEMS ALL SUPPORTS FOR BOTH THE MAIN RUNS AND THE STATION AND FIELD DEVICE FEEDS SHALL BE MOUNTED AT THE HIGHEST POINT AVAILABLE ABOVE CEILING. MOUNT AT LEVEL OF BUILDING STEEL, AND IF FEASIBLE, ABOVE ALL OTHER TRADE WIRING, DUCTING, PIPING, CONDUITS, AND ALL MECHANICAL AND ELECTRICAL EQUIPMENT. FOR EXISTING RENOVATION CONSTRUCTION CABLE SUPPORT SYSTEMS LOCATIONS SHALL AS MUCH AS POSSIBLE ROUTINELY COMPLY AS REQUIRED FOR NEW CONSTRUCTION INSTALLATIONS. ALL INSTALLED PATHWAYS SHALL BE INSPECTED AND ALL ISSUES ADDRESSED BY THE CONTRACTOR TO THE SATISFACTION OF THE CONSTRUCTION PROJECT MANAGERS AND OWNER REPRESENTATIVE.
5. IF J-HOOKS CAN NOT BE MOUNTED TO STRUCTURAL METALWOOD STUDS OR DRYWALL THEN J-HOOKS MAY ALSO BE INSTALLED USING CONTRACTOR PROVIDED AND INSTALLED CEILING GRID WIRE PAINTED WITH A TWELVE (12) INCH SWATCH OF BLUE PAINT INDICATING THE HANGERS ARE INTENDED ONLY FOR THE INSTALLATION OF CABLE RUNS. ALL GRID HANGERS SHALL BE FASTENED ON CEILING FAR END TO BUILDING STEEL OR TO APPROVED ANCHORS AND AT THE NEAR END OF THE CEILING GRID. IT IS NOT PERMISSIBLE IN ANY CIRCUMSTANCE FOR ANY CONTRACTOR TO USE ANY PRE-EXISTING GRID WIRE, BRACKETS, HANGERS, THREADED ROD OR OTHER MEANS INSTALLED BY OTHER CONTRACTORS.
6. J-HOOK SUPPORT SYSTEMS MAY BE INSTALLED AS DOUBLE SIDED MULTIPLE HOOK HANGER ASSEMBLIES WITH THE FOLLOWING PROVISIONS:
   A. ALL CONTRACTORS SHALL MAINTAIN MANUFACTURER APPROVED MINIMUM CABLE SEPARATION FOR ALL DIFFERING CABLES INSTALLED.
   B. ALL CONTRACTORS SHALL PROVIDE AND INSTALL ADEQUATE AND APPROVED AND SECURELY FASTENED ASSEMBLY BRACKETS.
   C. ALL J-HOOK AND OTHER APPROVED ASSEMBLIES SHALL BE SECURELY FASTENED TO BUILDING STRUCTURE UTILIZING ONLY APPROVED STRUCTURAL SURFACES.
7. ALL CABLE BUNDLES AND ALL CABLE RUNS SHALL BE SECURED AT EACH J-HOOK WITH VELCRO WRAPS AND SHALL BE SECURED BETWEEN EACH J-HOOK WITH VELCRO WRAPS EVERY TWO (2) FEET THE ENTIRE LENGTH OF EACH CABLE BUNDLE AND OR CABLE RUN.
8. ALL CABLE RUNS SHALL BE SECURED AT THE FIELD STATION OR FIELD DEVICE TERMINATING END WITH SPECIFIED LENGTHS OF SERVICE SLACK WHICH SHALL BE NEATLY DRESSED AND BUNDLED WITH VELCRO WRAPS AT THREE (3) EQUAL POINTS ON THE SERVICE SLACK COIL. THE SERVICE SLACK COIL SHALL BE SECURED ON A J-HOOK SUPPORT WITH VELCRO WRAPS.

9 TYPICAL ABOVE CEILING SUPPORT SYSTEM
NTS



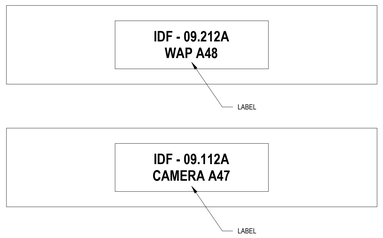
NOTES:

1. DATA OUTLET JACKS SHALL BE SNAP-IN CATEGORY 6A RJ-45 MODULES.
2. PATCH PANELS SHALL BE KEYSTONE TYPE PATCH PANELS INSTALLED WITH SNAP-IN CATEGORY 6A RJ-45 MODULES.

10 TYPICAL OUTLET AND PATCH PANEL WIRING/LABELING
NTS

NOTES:

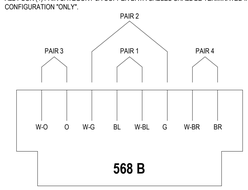
1. INTERIOR CEILING LABEL SPECIFICATIONS FOR WIRELESS ACCESS POINT AND VIDEO SURVEILLANCE CAMERA CATEGORY 6A DATA CABLE AND RJ-45 MODULAR JACK INSTALLATIONS INSTALLED ABOVE CEILING.
2. IDENTIFICATION LABELS TO BE PLACED BELOW FINISHED CEILING ON THE CEILING GRID AT THE EXACT ABOVE CEILING LOCATION OF THESE TERMINATED CATEGORY 6A DATA CABLE AND RJ-45 MODULAR JACK LOCATIONS



11 TYPICAL ABOVE CEILING LABELS
NTS

NOTES:

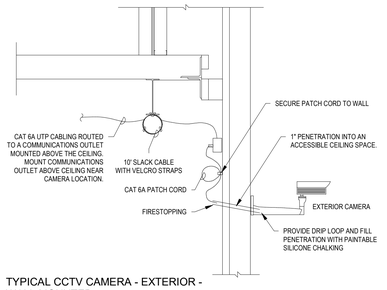
1. RJ45 MODULAR JACK AND PATCH PANEL PORT TERMINATION METHOD 568 "B" ONLY ALL CONFIGURATIONS UNLESS OTHERWISE NOTED.
2. EIGHT (8) - POSITION JACK PIN / PAIR ASSIGNMENTS EIA / TIA - 568B.
3. ALL FOUR (4) PAIR CATEGORY 6A COPPER DATA CABLES SHALL BE TERMINATED IN THIS CONFIGURATION "ONLY".



12 TYPICAL CATEGORY 6A WIRING CONFIGURATION
NTS

NOTES:

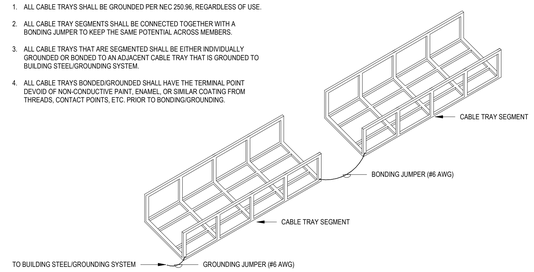
1. WALL ELEVATION SHOWN IS FOR REFERENCE ONLY.
2. REFER TO ARCHITECTURAL SHEET WALL ELEVATIONS AND STRUCTURAL DRAWING FOR SPECIFIC CONSTRUCTION REQUIREMENTS.



5 TYPICAL CCTV CAMERA - EXTERIOR - WALL MOUNTED
NTS

NOTES:

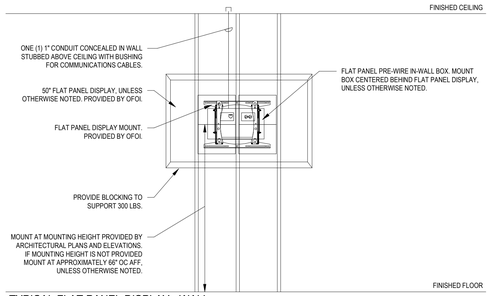
1. ALL CABLE TRAYS SHALL BE GROUNDED PER NEC 250.96, REGARDLESS OF USE.
2. ALL CABLE TRAY SEGMENTS SHALL BE CONNECTED TOGETHER WITH A BONDING JUMPER TO KEEP THE SAME POTENTIAL ACROSS MEMBERS.
3. ALL CABLE TRAYS THAT ARE SEGMENTED SHALL BE EITHER INDIVIDUALLY GROUNDED OR BONDED TO AN ADJACENT CABLE TRAY THAT IS GROUNDED TO BUILDING STEEL/GROUNDING SYSTEM.
4. ALL CABLE TRAYS BONDED/GROUNDED SHALL HAVE THE TERMINAL POINT DEVOID OF NON-CONDUCTIVE PAINT, ENAMEL, OR SIMILAR COATING FROM THREADS, CONTACT POINTS, ETC. PRIOR TO BONDING/GROUNDING.



6 TYPICAL GROUNDING BUS BAR
NTS

NOTES:

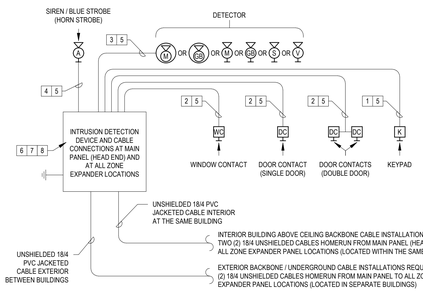
1. REFER TO POWER PLANS FOR CIRCUIT AND ROUTING REQUIREMENTS, ALONGSIDE ANY POWER RECEPTACLES AND THE TYPE OF RECEPTACLE BEING USED.



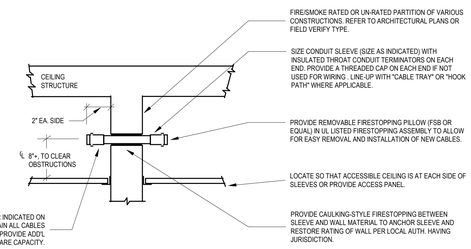
7 TYPICAL FLAT PANEL DISPLAY - WALL MOUNTED
NTS

KEYNOTES [XX]:

1. 22/4 UNSHIELDED CABLE FOR KEYPAD FIELD DEVICE LOCATIONS WITH A TEN (10) FOOT SERVICE SLACK AT EACH CABLE END.
2. 22/2 UNSHIELDED CABLE FOR DOOR CONTACT FIELD DEVICE LOCATIONS WITH A TEN (10) FOOT SERVICE SLACK AT EACH CABLE END.
3. 22/4 UNSHIELDED CABLE FOR MOTION SENSOR FIELD DEVICE LOCATIONS WITH A TEN (10) FOOT SERVICE SLACK AT EACH CABLE END.
4. 18/2 UNSHIELDED CABLE FOR STROBE AND SIREN FIELD DEVICE LOCATIONS WITH A TEN (10) FOOT SERVICE SLACK AT EACH CABLE END.
5. ALL FIELD DEVICE CABLE ENDS SHALL BE PROPERLY LABELED AND TERMINATED WITHIN SIX (6) INCHES OF POINT OF TERMINATION AT EACH DEVICE OR WHERE DEVICE CABLING IS INSTALLED IN A STUB OUT SHALL BE LABELLED WITHIN SIX (6) INCHES OF ENTRANCE INTO STUB OUT AT ALL LOCATIONS.
6. AT THE MAIN INTRUSION DETECTION PANEL (HEAD END) AND AT ALL ZONE EXPANDER PANELS ALL FIELD DEVICE CABLE ENDS SHALL BE PROPERLY LABELED AND TERMINATED AND DRESSED IN EACH PANEL. ALL CABLES SHALL BE INSTALLED AT EACH PANEL THROUGH AN APPROVED COUPLER DEVICE TO THE INTERIOR OF EACH PANEL.
7. THE MAIN INTRUSION DETECTION PANEL (HEAD END) AND ALL ZONE EXPANDER PANELS SHALL BE INSTALLED WITH A PROPERLY LABELED ZONE CARD INDICATING ALL DEVICES CONNECTED. ALL NEW PANEL INSTALLATIONS SHALL BE INSTALLED WITH TWO (2) SPARE PORTS FOR EXPANSION PURPOSES AT COMPLETION OF ALL NEW CONSTRUCTION AND RENOVATION PROJECTS.
8. THE MAIN INTRUSION DETECTION PANEL (HEAD END) AND EACH ZONE EXPANDER PANEL SHALL BE PROPERLY GROUNDED AT THE INTERIOR OF EACH PANEL. CONNECTION SHALL BE METAL TO METAL UTILIZING A PROPERLY SIZED GROUND LUG BOLTED (NOT SCREWED) TO THE PANEL CHASSIS WHICH SHALL BE ATTACHED TO A NUMBER SIX (6) STRANDED COPPER, GREEN JACKETED GROUND CABLE HOMERUN INSTALLED FROM THE SPECIFICATIONS FOR GROUND CABLE INSTALLATIONS. THIS SHALL BE ACCOMPLISHED AT COMPLETION OF ALL PROJECT PANEL INSTALLATIONS. EACH GROUND CABLE SHALL BE INSTALLED AT EACH PANEL THROUGH AN APPROVED COUPLER DEVICE TO THE INTERIOR OF EACH PANEL AND EACH CABLE SHALL BE SUPPORTED BY THE CONTRACTOR TO THE PANEL FROM THE GROUNDING BUS BAR BY DIVISION 27.
9. ALL LOW VOLTAGE CABLE SHOULD BE ROUTED TO THE MDF/IDF ROOMS IN A SECURED PATHWAY CABLE TRAY OR CONDUITS.

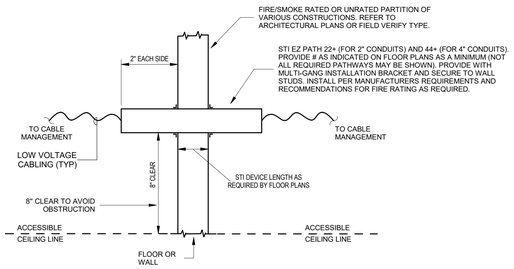


8 TYPICAL INTRUSION DETECTION SYSTEM CONFIG
NTS



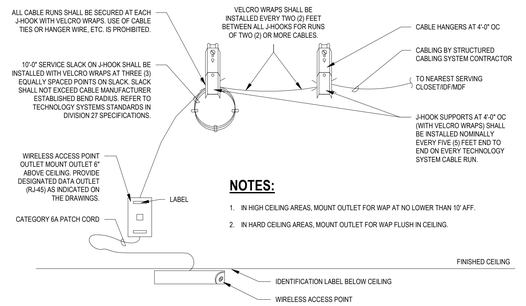
GENERAL NOTES:
A. PROVIDE ONE 2" SPARE CONDUIT SLEEVE THROUGH ALL FULL HEIGHT PARTITIONS FOR FUTURE USE. LABEL AS SPARE FOR OWNER'S USE ONLY. REFER TO ARCHITECTURAL PLANS FOR FULL HEIGHT PARTITION LOCATIONS.
B. USE AT ALL "OPEN" TYPE CABLING PENETRATIONS THROUGH WALLS, FLOORS, ETC.

1 SYSTEMS CABLING SLEEVE INSTALLATION (SPEED SLEEVE)
NTS



NOTE:
PATHWAYS SHALL BE PROVIDED WHERE PENETRATING CEILINGS (RATED OR NOT) FOR EXPOSED CABLE ROUTING TO LADDER TRAY IN MDF/IDF ROOMS. PROVIDE GRID SYSTEMS MOUNT AS REQUIRED.

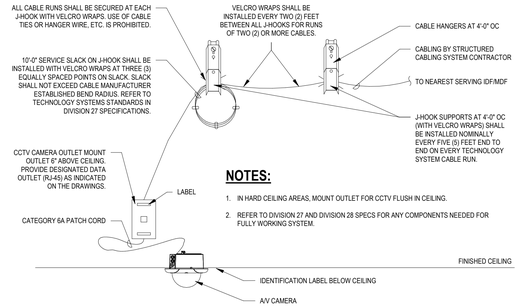
2 SYSTEMS SLEEVE PENETRATION DETAIL (EZ PATH)
NTS



NOTES:

1. IN HIGH CEILING AREAS, MOUNT OUTLET FOR WAP AT NO LOWER THAN 10' AFF.
2. IN HARD CEILING AREAS, MOUNT OUTLET FOR WAP FLUSH IN CEILING.

3 TYPICAL WIRELESS ACCESS POINT CEILING MOUNTED
NTS



NOTES:

1. IN HARD CEILING AREAS, MOUNT OUTLET FOR CCTV FLUSH IN CEILING.
2. REFER TO DIVISION 27 AND DIVISION 28 SPECS FOR ANY COMPONENTS NEEDED FOR FULLY WORKING SYSTEM.

4 TYPICAL CCTV CAMERA - INTERIOR - CEILING MOUNTED
NTS

CLIENT

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DRAWING HISTORY

No	DATE	DESCRIPTION
A	4/4/2025	100% Design Development
B	7/22/2025	50% Construction Documents
D	9/18/2025	90% Construction Documents
E	10/14/2025	90% Construction Documents/Permit Set

PROJECT STATUS
90% CONSTRUCTION DOCUMENTS/PERMIT SET

DATE OF ISSUE
10/14/2025

PROJECT NAME
RBPS EVIDENCE & FIRE RANGE BUILDING

PROJECT LOCATION
1621 WEST BLUE HERON BLVD.
RIVIERA BEACH, FL 33404

PROJECT NUMBER
1007657.00

SHEET TITLE
DETAILS - TECHNOLOGY

SHEET NUMBER
T4.02E

FILE NAME: Autodesk Docs://1007657.00 - CORE - City of Riviera Beach D/RBPD_Evidence and Firing Range_MEPF_R24.rvt
DATE STAMP: 10/23/2025 11:42:21 AM