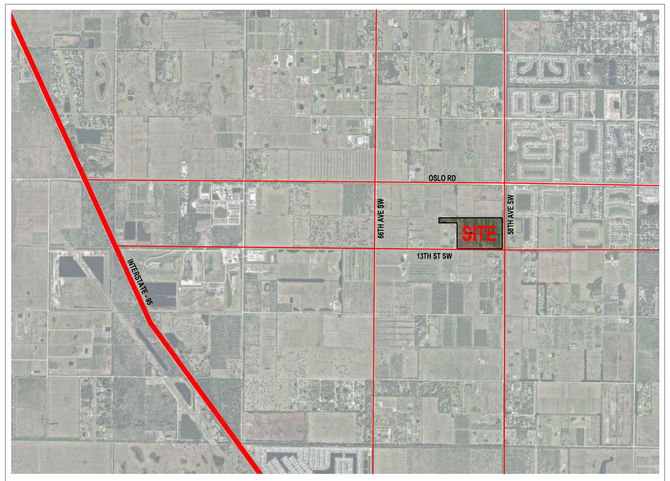

PROJECT LOCATION
NOT TO SCALE

GENERAL

SHEET NUMBER	SHEET TITLE	SD	50% CD	PERMIT SET	ADDENDUM #1	ADDENDUM #2	ADDENDUM #3	ADDENDUM #4
G000.1	COVER - VOLUME I 3 5	X	X	X	X			X
G000.2	COVER - VOLUME II 5		X	X	X	X	X	X
G001	GENERAL INFORMATION AND ABBREVIATIONS		X	X				
G010	CODE SUMMARY & CALCULATIONS 5		X	X				X
G021	UL ASSEMBLIES		X	X				
G022	UL ASSEMBLIES		X	X				
G023	UL ASSEMBLIES		X	X				
G024	UL ASSEMBLIES		X	X				
G025	UL ASSEMBLIES 5							X
G031	PARTITION TYPES & NOTES		X	X				
G032	PARTITION TYPES AND DETAILS		X	X				
G033	TYPICAL PARTITION DETAILS 5		X	X				X
G034	EXTERIOR WALL SYSTEM DETAILS - TILT WALL 01		X	X				
G101	LIFE SAFETY PLAN 5		X	X				X
G102	LIFE SAFETY PLAN 5		X	X				X

CIVIL

G-1	TITLE SHEET		X				
G-2.1	GENERAL NOTES		X				
G-2.2	GENERAL NOTES		X				
C-1	EXISTING CONDITIONS		X				
C-2.1	OVERALL SITE PLAN		X				
C-2.2	SITE PLAN		X				
C-2.3	SITE PLAN		X				
C-2.4	SITE PLAN		X				
C-2.5	SITE PLAN		X				
C-3.1	PAVING, GRADING & DRAINAGE		X				
C-3.2	GRADING AND DRAINAGE PLAN		X				
C-3.3	GRADING AND DRAINAGE PLAN		X				
C-3.4	GRADING AND DRAINAGE PLAN		X				3
C-3.5	GRADING AND DRAINAGE PLAN		X				
C-4.1	PAVING, GRADING & DRAINAGE DETAILS		X				
C-4.2	PAVING , GRADING CROSS SECTIONS		X				
C-5	UTILITY PLANS		X				
C-6.1	UTILITY DETAILS - WATER		X				
C-6.2	UTILITY DETAILS - SEWER		X				
C-6.3	LIFT STATION DETAILS		X				
C-7.1	OFF-SITE HORIZONTAL CONTROLS		X				
C-7.2	OFF-SITE ROADWAY IMPROVEMENTS		X				
C-7.3	OFF-SITE ROADWAY IMPROVEMENTS		X				
C-7.4	OFF-SITE DETAILS		X				
C-8	STORMWATER POLLUTION PREVENTION PLAN		X				
C-9	STORMWATER POLLUTION PREVENTION PLAN DETAILS		X				

LANDSCAPE

SHEET NUMBER	SHEET TITLE	SD	50%CD	PERMIT SET	ADDENDUM #1	ADDENDUM #2	ADDENDUM #3	ADDENDUM #4
L100	TREE MITIGATION PLAN		X	X				
L400	OVERALL LANDSCAPE PLAN		X	X				
L401	LANDSCAPE PLAN		X	X				
L402	LANDSCAPE PLAN		X	X				
L403	LANDSCAPE PLAN		X	X				
L420	LANDSCAPE NOTES & DETAILS		X	X				
L500	OVERALL IRRIGATION PLAN			X				
L501	IRRIGATION PLAN			X				
L502	IRRIGATION PLAN			X				
L503	IRRIGATION PLAN			X				
L504	IRRIGATION NOTE & DETAILS			X				

ARCHITECTURAL SITE

AS100	ARCHITECTURAL MASTER SITE PLAN - OVERALL 4	X	X	X		X		
AS101	ENLARGED SITE PLAN 5			X		X		X
AS403	CANOPY DETAILS			X				
AS404	SITE DETAILS			X				
AS-101	ENLARGED SITE PLAN- PHASE 1			X		X		
AS-404	SITE DETAILS			X				

ARCHITECTURAL

SHEET NUMBER	SHEET TITLE	SD	50% CD	PERMIT SET	ADDENDUM #1	ADDENDUM #2	ADDENDUM #3	ADDENDUM #4
A001	AREA PLANS 5	X	X	X				X
A101	OVERALL FLOOR PLANS	X	X	X	X	X		
A102	FLOOR DEPRESSION PLANS			X	X			
A111.A	PARTIAL FLOOR PLAN - 1ST FLOOR_AREA A 5	X	X	X				X
A111.B	PARTIAL FLOOR PLAN - 1ST FLOOR_AREA B 5	X	X	X	X			X
A112.A	PARTIAL FLOOR PLAN - 2ND FLOOR_AREA A 5	X	X	X				X
A112.B	PARTIAL FLOOR PLAN - 2ND FLOOR_AREA B 5	X	X	X				X
A121.A	DIMENSION PLAN - 1ST FLOOR_AREA A		X	X	X			
A121.B	DIMENSION PLAN - 1ST FLOOR_AREA B		X	X	X			
A122.A	DIMENSION PLAN - 2ND FLOOR_AREA A		X	X				
A122.B	DIMENSION PLAN - 2ND FLOOR_AREA B		X	X				
A141.A	RCP - 1ST FLOOR_AREA A 5	X	X	X	X			X
A141.B	RCP - 1ST FLOOR_AREA B 5	X	X	X				X
A142.A	RCP - 2ND FLOOR_AREA A 5	X	X	X				X
A142.B	RCP - 2ND FLOOR_AREA B 5			X				X
A151	ROOF PLAN 5	X	X	X	X			X
A160	INTERIOR FINISH SCHEDULE, LEGENDS AND DETAILS		X	X	X			
A161.A	FINISH PLAN - 1 ST FLOOR PLAN_AREA A	X	X	X	X			
A161.B	FINISH PLAN - 1 ST & 2 ND FLOOR PLANS_AREA B	X	X	X				
A162	FINISH PLAN - 2ND FLOOR PLAN	X	X	X	X			
A171.A	EQUIPMENT AND FURNITURE PLAN - 1ST FLOOR_AREA A 5			X				X
A171.B	EQUIPMENT AND FURNITURE PLAN - 1ST FLOOR_AREA B 5			X	X			X
A172.A	EQUIPMENT AND FURNITURE PLAN - 2ND FLOOR_AREA A			X				
A172.B	EQUIPMENT AND FURNITURE PLAN - 2ND FLOOR_AREA B			X				
A175	ENLARGED FURNITURE & EQUIPMENT PLANS	X	X	X				
A176	ENLARGED FURNITURE & EQUIPMENT PLANS	X	X	X				
A190	SIGNAGE TYPES & NOTES			X				
A191.A	SIGNAGE PLAN - 1ST FLOOR_AREA A			X				
A191.B	SIGNAGE PLAN - 1ST FLOOR_AREA B			X				
A192.A	SIGNAGE PLAN - 2ND FLOOR			X				
A201	EXTERIOR ELEVATIONS 3	X	X	X				
A211	EXTERIOR ELEVATIONS 3	X	X	X				
A212	EXTERIOR ELEVATIONS 3	X	X	X	X			
A221	ENLARGED EXTERIOR ELEVATIONS			X				
A222	ENLARGED EXTERIOR ELEVATIONS			X				
A223	ENLARGED EXTERIOR ELEVATIONS			X				
A251	INTERIOR ELEVATIONS	X	X	X		X		
A252	INTERIOR ELEVATIONS	X	X	X				
A253	INTERIOR ELEVATIONS		X	X				

ARCHITECTURAL

SHEET NUMBER	SHEET TITLE	SD	50% CD	PERMIT SET	ADDENDUM #1	ADDENDUM #2	ADDENDUM #3	ADDENDUM #4
A254	INTERIOR ELEVATIONS		X	X				
A255	INTERIOR ELEVATIONS		X	X				
A256	INTERIOR ELEVATIONS - GYMNASIUM		X	X				
A257	INTERIOR ELEVATIONS - GYMNASIUM		X	X				
A261	TOILET ROOM ELEVATIONS		X	X				
A301	BUILDING SECTIONS	X	X	X				
A302	BUILDING SECTIONS	X	X	X	X			
A303	BUILDING SECTIONS	X	X	X				
A304	BUILDING SECTIONS 5			X				X
A351	WALL SECTIONS		X	X				
A352	WALL SECTIONS	X	X					
A353	WALL SECTIONS	X	X					
A354	WALL SECTIONS	X	X					
A401	ENLARGED PLAN - GYM FLOOR STRIPING			X				
A460	TOILET ACCESSORY SCHEDULE, & LEGEND	X	X					
A461	ENLARGED FLOOR PLANS - RESTROOM	X	X	X				
A481	STAIR PLANS & SECTIONS 5	X	X					X
A485	ELEVATOR PLANS, SECTIONS, DETAILS		X	X				
A486	ELEVATOR / STAIR DETAILS			X				
A491	STAIR DETAILS 5			X				X
A500	DOOR SCHEDULE 5	X	X	X				X
A501	DOORS, STOREFRONT, WINDOWS AND LOUVER TYPES	X	X	X				
A511	DETAILS - DOOR			X				
A512	DETAILS - WINDOW			X				
A513	DETAILS - WINDOW/ LOUVER			X		X		
A521	DETAILS - TILT PANEL			X				
A522	EXTERIOR TRIMS			X				
A541	DETAILS - CEILING			X				
A551	DETAILS - ROOF 5			X				X
A552	DETAILS - ROOF 5			X				X
A553	DETAILS - ROOF			X				
A554	DETAILS - ROOF			X				
A561	DETAILS - INTERIOR			X	X	X		
A562	DETAILS - INTERIOR			X	X			
A563	DETAILS - INTERIOR			X				
A564	DETAILS - INTERIOR			X	X	X		
A571	MILLWORK & CASEWORK DETAILS			X	X			

STRUCTURAL

SHEET NUMBER	SHEET TITLE	SD	50% CD	PERMIT SET	ADDENDUM #1	ADDENDUM #2	ADDENDUM #3	ADDENDUM #4
S001	STRUCTURAL GENERAL NOTES		X	X				
S002	STRUCTURAL GENERAL NOTES & ABBREVIATIONS		X	X				
S003	STRUCTURAL GENERAL NOTES & SYMBOL LEGEND		X	X				
S004	STRUCTURAL GENERAL NOTES & WIND SCHEDULES		X	X				
S101	OVERALL FOUNDATION PLAN 5		X	X				X
S101.A	PARTIAL FOUNDATION PLAN - AREA A 5		X	X	X			X
S101.B	PARTIAL FOUNDATION PLAN - AREA B 5		X	X	X			X
S102	OVERALL SECOND FLOOR FRAMING PLAN 5		X	X				X
S102.A	PARTIAL SECOND FLOOR FRAMING PLAN - AREA A 5		X	X	X			X
S102.B	PARTIAL SECOND FLOOR FRAMING PLAN - AREA B		X	X	X			
S103	OVERALL ROOF FRAMING PLAN 5		X	X				X
S103.A	PARTIAL ROOF FRAMING PLAN - AREA A 5		X	X	X	X		X
S103.B	PARTIAL ROOF FRAMING PLAN - AREA B 5		X	X		X		X
S201	FOUNDATION SECTIONS AND DETAILS		X	X				
S202	FOUNDATION SECTIONS AND DETAILS		X	X				
S301	FLOOR FRAMING SECTIONS AND DETAILS 5		X	X				X
S401	ROOF FRAMING SECTIONS AND DETAILS		X	X				
S402	ROOF FRAMING SECTIONS AND DETAILS		X	X	X			
S501	SCHEDULES		X	X				
S601	TILT-UP PANEL NOTES, DETAILS, AND SCHEDULES		X	X				
S602	TILT-UP PANEL NOTES, DETAILS, AND SCHEDULES 5		X	X				X
S603	TILT-UP PANEL ELEVATIONS 5		X	X				X
S604	TILT-UP PANEL ELEVATIONS 5		X	X				X
S605	TILT-UP PANEL ELEVATIONS		X	X	X			
S606	TILT-UP PANEL ELEVATIONS		X	X				

VERO CLASSICAL SCHOOL

VOLUME I OF II

VERO CLASSICAL SCHOOL WEST - PHASE I

VERO BEACH, FLORIDA

BID/ PERMIT DOCUMENTS

COMM. NO.: **2024117**

12/23/2024

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VERO CLASSICAL SCHOOL
WEST - PHASE I

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REVISIONS

MARK	DESCRIPTION	DATE
3	TRC Comments	03/21/2025
5	Addendum 04 - IRC BUILDING REVIEW COMMENTS	06/6/2025

COMM. NO.: 2024117
ISSUE DATE: 12/23/2024
DRAWN BY: JL

COVER - VOLUME I

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ABBREVIATIONS

A	
&	AND
@	AT
A/E	ARCHITECT / ENGINEER
AB	ANCHOR BOLT
AC	AIR CONDITIONING
ACC	ACCESSIBLE
ACOUST	ACOUSTICAL
ACP	ACOUSTICAL CEILING PANEL
ACT	ACOUSTIC CEILING TILE
AD	AREA DRAIN
AD	ACCESS DOOR
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AGGR	AGGREGATE
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ASPH	ASPHALT
ATTN	ATTENTION
AUTO	AUTOMATIC
AV	AUDIOVISUAL
AWP	ACOUSTICAL WALL PANELS
B	
BD	BOARD
BIT	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BO	BOTTOM OF
BOB	BOTTOM OF BEAM
BOC	BOTTOM OF CURB
BOT	BOTTOM
BRG	BEARING
BRK	BRICK
BRKT	BRACKET
BSMNT	BASEMENT
BUR	BUILT UP ROOFING
C	
C	CHANNEL
C/C	CENTER TO CENTER
CAB	CABINET
CAT	CATEGORY
CB	CATCH BASIN
CBU	CEMENTITIOUS BACKER UNIT
CCTV	CLOSED CIRCUIT TELEVISION
CEM	CEMENT
CER	CERAMIC
CFMF	COLD FORMED METAL FRAMING
CG	CORNER GUARD
CH	CHILLER
CI	CAST IRON
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMB	CEMENT BOARD
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
COND	CONDITION
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
CPT	CARPET TILE
CT	CERAMIC TILE
CTR	CENTER
CTSK	COUNTERSUNK
CTW	CERAMIC WALL TILE
CUST	CUSTODIAL
CW	COLD WATER
D	
D	DEEP, DEPTH
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLISH OR DEMOLITION
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIFF	DIFFUSER
DIM	DIMENSION
DIMS	DIMENSIONS
DISP	DISPENSER
DIV	DIVISION
DMPF	DAMP PROOFING
DN	DOWN
DO	DOOR OPENING
DR	DOOR
DRN	DRAIN
DS	DOWNSPOUT
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING
DWR	DRAWER
E	
E	EAST
EA	EACH

ABBREVIATIONS

EB	EXPANSION BOLT
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
ENG	ENGINEER
EP	ELECTRICAL PANEL
EPDM	ETHYLENE PROPYLENE DIENE M-CLASS
EPR	EPOXY RESIN
EPX	EPOXY FLOORING AND BASE
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F	
FA	FIRE ALARM
FB	FACE BRICK
FD	FLOOR DRAIN OR FIRE DEPARTMENT
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF&E	FURNITURE, FIXTURES AND EQUIPMENT
FFB	FLUSH FLOOR BOX
FFEL	FINISH FLOOR ELEVATION
FH	FULL HEIGHT OR FLAT HEAD
FHC	FIRE HOSE CABINET
FIN	FINISH
FIXT	FIXTURE
FLASH	FLASHING
FLR	FLOOR
FLUOR	FLUORESCENT
FND	FOUNDATION
FO	FACE OF OR FINISHED OPENING
FP	FIRE PROTECTION
FPG	FIREPROOFING
FR	FIRE RESISTANT
FRC	FIBER REINFORCED CONCRETE
FRP	FIBER REINFORCED PLASTIC
FRT	FIRE RETARDANT TREATED
FS	FLOOR SINK
FT	FEET/FOOT
FTG	FOOTING
FURN	FURNITURE
FURR	FURRING
FWC	FABRIC WALL COVERING
FWP	FABRIC WRAPPED PANEL
G	
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACT(OR)
GEN	GENERAL
GFRC	GLASS FIBER REINFORCED CONCRETE
GL	GLASS
GLAZ	GLAZING
GR	GRADE
GRAN	GRANULAR
GRAPHIC	CUSTOM GRAPHIC BY OTHERS
GRD	GROUND
GRFG	GLASS FIBER REINFORCED GYPSUM
GSM	GALVANIZED SHEET METAL
GV	GAS VALVE
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
H	
H	HIG
HB	HOSE BIB
HC	HANDICAPPED OR HOLLOW CORE
HDWD	HARDWOOD
HDWR	HARDWARE
HGT	HEIGHT
HM	HOLLOW METAL
HNDRL	HANDRAIL
HO	HOLD OPEN
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HOUR
HRC	HOSE REEL CABINET
HT	HEIGHT
HTG	HEATING
HVAC	HEATING VENTILATION & AIR CONDITIONING
HW	HOT WATER
I	
ID	INSIDE DIAMETER
IN	INCH/INCHES
INCAND	INCANDESCENT
INCL	INCLUDED/INCLUDING
INFO	INFORMATION
INSUL	INSULATED OR INSULATION
INT	INTERIOR
INTERM	INTERMEDIATE
INV	INVERT
J	
JAN	JANITOR
JC	JANITOR'S CLOSET
JST	JOIST
JT	JOINT
K	
KIT	KITCHEN
KO	KNOCK OUT
L	
LAM	LAMINATE
LAV	LAVATORY

ABBREVIATIONS

LB	POUND
LF	LINEAR FEET
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LT	DECORATIVE LIGHT FIXTURE
LTG	LIGHTING
LTWT	LIGHTWEIGHT
LVL	LEVEL
LVR	LOUVER
LVT	LUXURY VINYL TILE
M	
MAINT	MAINTENANCE
MAS	MASONRY
MAT	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MDL	WOOD MOLDING
MECH	MECHANICAL
MED	MEDIUM
MEMBR	MEMBRANE
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MR	MOISTURE RESISTANT
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MULL	MULLION
N	
N	NORTH
NA	NOT APPLICABLE
NC	NOISE CRITERIA
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NR	NON RATED
NTS	NOT TO SCALE
O	
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
OA	OUTSIDE AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER
OD	OVERFLOW DRAIN
OEP	WATER BASED EPOXY PAINT
OF	OWNER FURNISHED
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFF	OFFICE
OFOI	OWNER FURNISHED, OWNER INSTALLED
OH	OVERHEAD
OHC	OVERHEAD COILING DOOR
OHS	OVERHEAD SECTIONAL DOOR
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
ORIG	ORIGINAL
P	
P	PAINT
PAV	PAVING
PBD	PARTICLE BOARD
PC	PRECAST
PDF	POWER DRIVEN FASTENER
PERF	PERFORATED
PERIM	PERIMETER
PERP	PERPENDICULAR
PL	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT OR PAINTED
POL	POLISHED
PR	PAIR
PREFAB	PREFABRICATED
PROJ	PROJECT
PSF	POUNDS PER SQUARE FOOT
PT	PRESSURE TREATED
PTB	PORCELAIN WALL BASE
PTD	PAINTED
PTE	EPOXY PAINT
PTF	PORCELAIN FLOOR TILE
PTL	PAINT
PTN	PARTITION
PTW	PORCELAIN WALL TILE
PVC	POLYVINYL CHLORIDE
Q	
QT	QUARRY TILE
QTY	QUANTITY
QTZ	QUARTZ SURFACE MATERIAL
R	
RA	RETURN AIR
RAD	RADIUS
RB	RESILIENT BASE
RB	RUBBER BASE
RBR	RUBBER
RBT	RUBBER FLOOR TILE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REC	RECESSED
RECPT	RECEPTACLE
REF	REFERENCE
REFR	REFRIGERATOR
REG	REGISTER

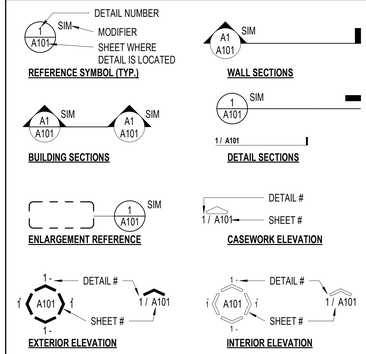
ABBREVIATIONS

REINF	REINFORCED OR REINFORCING
REL	RELOCATE
REM	REMOVABLE
REQ	REQUIRE/REQUIRED
RESIL	RESILIENT
REV	REVISION/REVISED
RM	ROOM
RO	ROUGH OPENING
RTD	RATED
RTG	RATING
RWL	RAIN WATER LEADER
S	
S	SOUTH
SA	SUPPLY AIR
SAF	SELF ADHERED FLASHING
SC	SOLID CORE
SCHED	SCHEDULE
SCS	SEALED CONCRETE
SD	STORM DRAIN
SDC	STATIC DISSIPATIVE CARPET TILE
SDT	STATIC DISSIPATIVE CARP VCT TILE
SECT	SECTION
SF	SQUARE FEET/FOOT
SH	SPRINKLER HEAD
SHR	SHOWER
SHT	SHEET
SIM	SIMILAR
SJ	SAW JOINT
SM	SURFACE MOUNTED
SP	STANDPIPE
SPEC	SPECIFIED OR SPECIFICATION
SPK	SPRINKLE
SPKR	SPEAKER
SQ	SQUARE
SS	STAINLESS STEEL
SSK	SERVICE SINK
SSM	SOLID SURFACE MATERIAL
STA	STATION
STC	SOUND TRANSMISSION COEFFICIENT
STL	STEEL
STOR	STORAGE
STRG	STRINGER
STRUCT	STRUCTURE OR STRUCTURAL
SUBCAT	SUBCATEGORY
SUSP	SUSPENDED
SYM	SYMMETRICAL
SYS	SYSTEM
T	
T	TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TB	TOWEL BAR
TDC	TRAFFIC DECK COATING
TEL	TELEPHONE/TELECOM
TELE	TELEPHONE
TEMP	TEMPORARY
THK	THICKNESS
THRU	THROUGH
TKBD	TACK BOARD
TLT	TOILET
TMPD	TEMPERED
TO	TOP OF
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE OR TOP OF CURB
TOS	TOP OF STEEL
TOW	TOP OF WALL
TP	TOILET PARTITION
TS	TUBE STEEL
TV	TELEVISION
TYP	TYPICAL
TZ	TERRAZO TILE
U	
UL	UNDERWRITERS LABORATORY
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
URNL	URINAL
V	
VAC	VENTILATION AND AIR CONDITIONING
VAR	VARIES
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VCT	VINYL COMPOSITE TILE
VER	VERIFY
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VP	VISION PANEL
VR	VAPOR RETARDER
VT	VINYL TILE
VWC	VINYL WALL COVERING
W	
W	WIDE OR WEST
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WIN	WINDOW
WM	WIRE MESH
WOM	WALK OFF MATS
WP	WATERPROOF OR WATERPROOFING
WPM	WATERPROOF MEMBRANE
WS	WEATHER-STRIPPING
WSCT	WAINSCOT
WSP	WAINSCOT PROTECTION PANEL
WT	WEIGHT
WV	WATER VALVE
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH

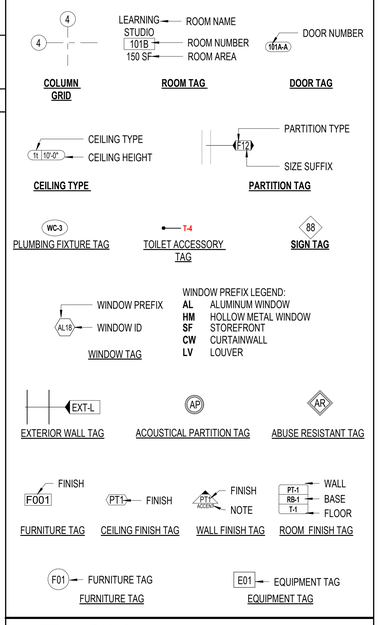
1. EACH CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN ON THE DRAWINGS AND OBTAIN ALL MEASUREMENTS REQUIRED FOR PROPER EXECUTION OF WORK. WHEN VERIFICATION OF EXISTING DIMENSIONS IS REQUIRED, THE CONTRACTOR REQUIRING SAID VERIFICATION FOR THE CONSTRUCTION OR FABRICATION OF HIS MATERIAL SHALL BE THE CONTRACTOR RESPONSIBLE FOR THE PROCUREMENT OF THE FIELD INFORMATION.
2. PROVIDE ALL WOOD BLOCKING NECESSARY FOR THE ATTACHMENT OF MISCELLANEOUS EQUIPMENT INCLUDING BUT NOT LIMITED TO TOILET ACCESSORIES, DOOR HARDWARE, ELECTRICAL DEVICES, LABORATORY EQUIPMENT, GRAB BARS, HANDRAILS, CASEWORK AND MILLWORK.
3. THE TRANSITION OF DIFFERENT FLOORING MATERIALS AT A DOORWAY SHALL OCCUR AT THE CENTERLINE OF DOOR UNLESS INDICATED OTHERWISE.
4. ALL WALL SURFACES, DOOR FRAMES, BULKHEADS AND CEILINGS SHALL RECEIVE PAINT WHEN PAINT IS INDICATED ON THE FINISH SCHEDULE OR FINISH PLANS. PAINT SURFACES BEHIND MOVABLE EQUIPMENT AND FURNITURE SAME AS SIMILAR EXPOSED SURFACES. PAINT SURFACES BEHIND PERMANENTLY FIXED EQUIPMENT OR FURNITURE WITH PRIME COAT ONLY BEFORE FINAL INSTALLATION OF EQUIPMENT. PAINT ALL MECHANICAL AND ELECTRICAL EQUIPMENT EXPOSED IN FINISHED SPACES UNLESS INDICATED OTHERWISE.
5. REPAIR ALL SURFACES DAMAGED BY RENOVATION AND NEW CONSTRUCTION TO MATCH EXISTING ADJACENT OR CONTIGUOUS FINISH.
6. ALL CUTTING AND PATCHING AS A RESULT OF NEW CONSTRUCTION OR DEMOLITION SHALL BE PERFORMED IN A WORKMANLIKE MANNER, AND SHALL MATCH IN COLOR, SHAPE, SIZE AND TEXTURE ADJACENT AND/OR CONTIGUOUS FINISHED SURFACES.
7. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED MEASUREMENTS. DO NOT SCALE DRAWINGS.
8. DETAILED DRAWINGS AND LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALL SCALE DRAWINGS.
9. UNLESS OTHERWISE NOTED, PLAN DIMENSIONS ARE TAKEN FROM FACE OF CMU OR CONCRETE TO FACE OF WALL, OR FACE OF WALL TO FACE OF WALL.
10. DOORS NOT OTHERWISE DIMENSIONED SHALL BE 8" FROM FACE OF ADJACENT CMU OR CONCRETE WALL TO ROUGH DOOR OPENING, AND 4" FROM FACE OF ADJACENT STUD WALL TO ROUGH DOOR OPENING.
11. FOR CONSTRUCTION DETAILS NOT SHOWN, USE THE PRODUCT MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND STANDARD DETAILS, IN STRICT ACCORDANCE WITH THE PROJECT SPECIFICATION REQUIREMENTS AND DESIGN INTENT.
12. PROVIDE FIRE EXTINGUISHERS (FE) AND FIRE EXTINGUISHER CABINETS (FEC) AS INDICATED ON THE PLANS. PROVIDE TYPE AND SIZE AS SPECIFIED. MOUNT AT 42" AFF TO TOP OF FE AND 48" AFF TO TOP OF FEC

GENERAL NOTES - ARCHITECTURE

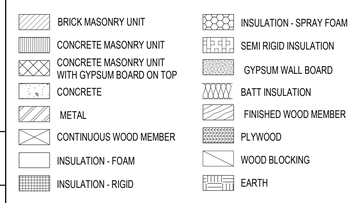
REFERENCE SYMBOLS



IDENTITY SYMBOLS



MATERIAL LEGEND

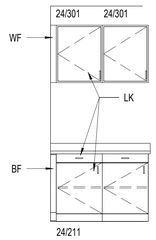


DIMENSIONING

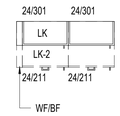
1. DOORS NOT OTHERWISE DIMENSIONED SHALL BE:
   A. 8" FROM FACE OF ADJACENT MASONRY WALL TO ROUGH DOOR OPENING.
   B. 4" FROM FACE OF ADJACENT STUD WALL TO ROUGH DOOR OPENING.
2. SEE LARGE SCALE DETAILS FOR LOCATIONS AND ALIGNMENTS OF PARTITIONS NOT DIMENSIONED ON FLOOR PLANS.
3. UNLESS OTHERWISE NOTED, PLAN DIMENSIONS ARE TAKEN FROM:
   A. FACE OF WALL TO FACE OF WALL
   B. FACE OF CMU UNIT OR FACE OF CONCRETE WALL TO FACE OF CMU/WALL
   C. CENTERLINE OF COLUMN TO CENTERLINE OF COLUMN
   D. FACE OF CMU OR FACE OF CONCRETE WALL TO CENTERLINE OF CANOPY COLUMN

CASEWORK LEGEND

CASEWORK ELEVATION LEGEND



CASEWORK PLAN LEGEND



CASEWORK TAG LEGEND

INDICATES WIDTH OF CABINET IN INCHES — 24 / 211 — INDICATES CABINET DESIGN SERIES STANDARD DESIGNATIONS BY ARCHITECTURAL WOODWORK INSTITUTE. SEE SPECIFICATIONS.

NOTE:
STANDARD CASEWORK MAY BE INDICATED IN PLAN OR ELEVATION. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION ON CONSTRUCTION & MATERIALS. REFER TO PLANS AND DETAILS FOR NON-STANDARD CASEWORK & MILLWORK CONSTRUCTION AND DETAILING.

AF ACCESSORY FILLER PANEL
BF BASE CABINET FILLER PANEL
FF FULL HEIGHT CABINET FILLER PANEL
WF WALL CABINET FILLER PANEL
LK DRAWER / DOOR LOCK
FP FINISHED PANEL

ALL BASE CABINETS 24" DEEP U.N.O.
ALL WALL CABINETS 12" DEEP U.N.O.
ALL FULL HEIGHT CABINETS 24" DEEP U.N.O.

DRAWING CONVENTIONS

VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
VERO BEACH, FLORIDA 32963

SCHENKEL SHULTZ

834 N. Orange Avenue
Winter Park, FL 32789
voice 407-872-3322

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ISSUE DATE: 12/23/2024
DRAWN BY: JL

GENERAL INFORMATION AND ABBREVIATIONS

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PROJECT SUMMARY

THIS PROJECT CONSISTS OF CONNECTED TWO AREA IN ONE BUILDING, TWO STORY CLASSROOM AREA AND GYMNASIUM AREA. CLASSROOM AREA IS FOR KINDERGARTEN TO EIGHTH GRADE STUDENTS. GYMNASIUM AREA CONTAINS PRACTICE AND COMPETITION GYMNASIUM, LOCKERS, A CONCESSION AND OTHER SUPPORTING ROOMS.

EHPA / STORM SHELTER

THIS PROJECT **WILL NOT** BE CONSTRUCTED AS AN E.H.P.A. OR STORM SHELTER.

APPLICABLE CODES & STANDARDS

BUILDING:	FLORIDA BUILDING CODE, BUILDING, 8TH EDITION (2023)
FIRE / LIFE SAFETY:	FLORIDA FIRE PREVENTION CODE, 8TH EDITION (2023) NFPA 1, FIRE CODE, 2024 EDITION - FLORIDA AMENDED NFPA 101, LIFE SAFETY CODE, 2024 EDITION - FLORIDA AMENDED
PLUMBING:	FLORIDA BUILDING CODE, PLUMBING, 8TH EDITION (2023) FLORIDA BUILDING CODE, FUEL GAS, 8TH EDITION (2023)
MECHANICAL:	FLORIDA BUILDING CODE, MECHANICAL, 8TH EDITION (2023)
ELECTRICAL:	FLORIDA BUILDING CODE, BUILDING, 8TH EDITION (2023) - CHAPTER 27 NFPA 70, NATIONAL ELECTRICAL CODE, 2023 EDITION (BY REFERENCE)
ENERGY:	FLORIDA BUILDING CODE , ENERGY CONSERVATION, 8TH EDITION (2023)
ACCESSIBILITY:	FLORIDA BUILDING CODE, ACCESSIBILITY, 8TH EDITION (2023)
TESTING FOR HVHZ:	FLORIDA BUILDING CODE, TEST PROTOCOLS FOR HVHZ, 8TH EDITION (2023)

AUTHORITIES HAVING JURISDICTION

BUILDING:	INDIAN RIVER COUNTY, BUILDING DIVISION
FIRE / LIFE SAFETY:	INDIAN RIVER COUNTY, BUILDING DIVISION
FIRE / LIFE SAFETY:	INDIAN RIVER COUNTY, FIRE PREVENTION BUREAU

OCCUPANCY CLASSIFICATION

(FBC Chapter 3 - Use & Occupancy Classification)
(FBC Chapter 5 - General Building Heights & Areas)

MIXED USE (NONSEPARATED OCCUPANCY) PER FBC SECTION 508.3

EDUCATIONAL OCCUPANCY PER FBC SECTION 305
ASSEMBLY OCCUPANCY PER FBC SECTION 303
BUSINESS OCCUPANCY PER FBC SECTION 304

CONSTRUCTION TYPE

(FBC Chapter 6 - Types of Construction)

TYPE II B CONSTRUCTION, SPRINKLERED (FBC TABLE 601)
EQUIPPED WITH VOICE / ALARM SYSTEM.

(NFPA 220-2024 Edition - Table 4.1.1)

TYPE II 000 CONSTRUCTION TYPE

FIRE RESISTANCE OF BLDG. ELEMENTS BY CONSTRUCTION TYPE

PRIMARY STRUCT. FRAME:	0 HOURS
BEARING WALLS - EXT:	0 HOURS
BEARING WALLS - INT:	0 HOURS
NONBEARING WALLS - EXT:	0 HOURS (SEE TABLE 602 & TABLE 705.8)
NONBEARING WALLS - INT:	0 HOURS
FLOOR CONSTRUCTION:	0 HOURS
ROOF CONSTRUCTION:	0 HOUR
CORRIDORS:	SMOKE PARTITION (NFPA 14.3.6(2)a)
EXIT STAIRS:	1 HOUR (FBC 1022.1 / NFPA 7.1.3.2.1(1))
FLOOR OPENINGS / SHAFTS:	1 HOUR (FBC 708.4 / NFPA 8.6.5(2))

NOTE: REFER TO SHEETS G021 - G024 FOR UL ASSEMBLIES TO PROVIDE REQUIRED FIRE RESISTANCE OF BLDG. ELEMENTS.

BUILDING HEIGHT BY CONSTRUCTION TYPE

(FBC Chapter 5 - General Building Heights and Areas)

ALLOWABLE HEIGHT:	3 STORIES / 75' - 0"
ACTUAL HEIGHT:	2 STORIES / 49' - 6"

BUILDING AREA BY CONSTRUCTION TYPE

(FBC Chapter 5 - General Building Heights and Areas)

ALLOWABLE AREA:	43,500 SF PER FLOOR X 2 STORIES = 87,000 SF TOTAL (E-SM-TYPE II B, SEE TABLE 506.2)
FIRST FLOOR:	32,221 SF (Building Interior) + 4,671 SF (Exterior Area) = 36,892 SF
SECOND FLOOR:	14,988 SF
TOTAL AREA:	51,880 SF

OPENING PROTECTIVES IN FIRE RESISTANT CONSTRUCTION

CONSTRUCTION TYPE	FIRE RESISTANCE RATING
1 - HOUR FIRE BARRIER, STAIRS, ELEVATORS, EXIT ENCLOSURE AND SHAFTS:	1 HOUR
1 - HOUR FIRE BARRIER, OTHERS:	3/4 HOUR
2 - HOUR FIRE BARRIER:	1 1/2 HOUR
SMOKE PARTITION:	N/A

SEPERATION FROM HAZARDS

ROOM OR AREA	FIRE RESISTANCE RATING	STANDARD
BOILER / FURNACE ROOM	1 HR. F.R. OR SPRINKLER	NFPA 101 14.3.2.1
JANITOR CLOSETS	1 HR. F.R. OR SPRINKLER	NFPA 101 14.3.2.1
STORAGE ROOMS W/ HAZARDOUS CONTENTS	1 H.R. F.R. OR SPRINKLER	NFPA 101 14.3.2.1

INTERIOR FINISHES

CONSTRUCTION TYPE	FIRE RESISTANCE RATING
EXITS	CLASS A
EXIT ACCESS CORRIDORS	CLASS B
OTHER THAN EXITS	CLASS C
LOW HEIGHT PARTITIONS	CLASS C (SEE NOTE 1)
INTERIOR FLOOR FINISHES	CLASS II
GENERAL ASSEMBLY AREAS (>300)	CLASS A
ASSEMBLY AREAS (<300)	CLASS C

NOTES:
1. PARTITIONS NOT EXCEEDING 60 INCHES AND IN LOCATIONS OTHER THAN EXITS

OCCUPANT LOADS

THE CALCULATED OCCUPANT LOAD RESULTS IN A TOTAL BUILDING POPULATION FOR EGRESS OF **1,827 PERSONS** AS INDICATED BELOW. REFER TO EGRESS CAPACITY TABLES BELOW FOR EGRESS BY FLOOR OR AREA. REFER TO THE LIFE SAFETY DRAWINGS FOR THE OCCUPANCY SCHEDULES.

	OCCUPANT LOAD
1ST FLOOR	**1,722 PERSONS**
CLASSROOM AREA	**468 PERSONS**
GYM AREA	**1254 PERSONS**
2ND FLOOR:	**474 PERSONS**
PROJECT TOTAL OCCUTANT LOAD:	**1,678 PERSONS**

EGRESS CAPACITY

REFER TO THE LIFE SAFETY DRAWINGS FOR THE LOCATION AND CAPACITY OF ALL EGRESS COMPONENTS

EXITS

LEVEL	EXIT WIDTH - REQUIRED	EXIT WIDTH - PROVIDED
FIRST FLOOR - CLASSROOM AREA	468 PERSONS X 0.2" = **93.6 INCHES**	**408 INCHES**
FIRST FLOOR - GYM AREA	1254 PERSONS X 0.2" = **250.8 INCHES**	**442 INCHES**
SECOND FLOOR	474 PERSONS X 0.2" = **95 INCHES**	**136 INCHES**

STAIRS - BUILDING 02

LEVEL	STAIR WIDTH - REQUIRED	STAIR WIDTH - PROVIDED
FIRST FLOOR	**N / A**	**N /A**
SECOND FLOOR	474 PERSONS X 0.3" = **142 INCHES**	**168 INCHES**

EGRESS COMPONENTS

MIN. NUMBER OF EXITS:	BLDG 02: 3 BLDG 03: 4	(FBC 1006.2.1.1)
MAX. TRAVEL DISTANCE:	200 FT.	(NFPA 101 14.2.6.3, MORE STRINGENT THAN FBC)
MAX. COMMON PATH OF TRAVEL:	75'-0"	(FBC TABLE 1006.2.1, MORE STRINGENT THAN NFPA 101)
MAX. DEAD END CORRIDOR:	50'-0"	(FBC 1024.4 & NFPA 14.2.5.2)
MIN. CORRIDOR WIDTH:	6'-0" CLEAR	(NFPA 101 14.2.3.2)
MIN. STAIR WIDTH:	0.3" PER PERSON BUT NO LESS THAN 44"	(FBC 1005.3.1 & NFPA TABLE 7.3.3.1) (FBC 101.2 & NFPA 101 TABLE 7.2.2.2.1.2(B))
MIN. DOOR WIDTH:	0.2" PER PERSON BUT NO LESS THAN 32"	(FBC 1005.3.2 & NFPA TABLE 7.3.3.1) (FBC 1010.1.1 & NFPA 101 7.2.1.2.3.2)

PORTABLE FIRE EXTINGUISHERS

PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED IN ALL EDUCATIONAL OCCUPANCIES (PER NFPA 1 TABLE 13.6.1.2). TRAVEL DISTANCE TO A PORTABLE FIRE EXTINGUISHER SHALL NOT EXCEED 75 FEET (PER NFPA 1 13.6.3.2.1.2.2). REFER TO THE LIFE SAFETY DRAWINGS FOR THE LOCATION OF FIRE EXTINGUISHERS.

NON-SEPARATED OCCUPANCY

(F.B.C. SECTION 508.3)

508.3.1 OCCUPANCY CLASSIFICATION: NON SEPARATED OCCUPANCIES SHALL BE INDIVIDUALLY CLASSIFIED IN ACCORDANCE WITH SECTION 302.1. THE REQUIREMENTS OF THIS CODE SHALL APPLY TO EACH PORTION OF THE BUILDING BASED ON THE OCCUPANCY CLASSIFICATION OF THAT SPACE EXCEPT THAT THE MOST RESTRICTIVE APPLICABLE PROVISIONS OF SECTION 403 AND CHAPTER 9 SHALL APPLY TO THE BUILDING OR PORTION THEREOF IN WHICH THE NONSEPARATED OCCUPANCIES ARE LOCATED.

508.3.2 ALLOWABLE BUILDING AREA AND HEIGHT: THE ALLOWABLE BUILDING AREA AND HEIGHT OF THE BUILDING OR PORTION THEREOF SHALL BE BASED ON THE MOST RESTRICTIVE ALLOWANCES FOR THE OCCUPANCY GROUPS UNDER CONSIDERATION FOR THE TYPE OF CONSTRUCTION OF THE BUILDING IN ACCORDANCE WITH SECTION 503.1

508.3.3 SEPARATION: NO SEPARATION IS REQUIRED BETWEEN NONSEPARATED OCCUPANCIES

AREAS OF REFUGE

(FBC 1009.6 &NFPA 101 - 7.2.12)

NFPA 7.2.12.1.1 AN AREA OF REFUGE USED AS A PART OF A REQUIRED ACCESSIBLE MEANS OF EGRESS IN ACCORDANCE WITH 7.5.4; CONSISTING OF A STORY IN A BUILDING THAT IS PROTECTED THROUGHOUT BY AN APPROVED, SUPERVISED AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 9.7; AND HAVING AN ACCESSIBLE STORY THAT IS ONE OR MORE STORIES ABOVE OR BELOW A STORY OF EXIT DISCHARGE SHALL MEET THE FOLLOWING CRITERIA:

(1) EACH ELEVATOR LANDING SHALL BE PROVIDED WITH A TWO-WAY COMMUNICATION SYSTEM FOR COMMUNICATION BETWEEN THE ELEVATOR LANDING AND THE FIRE COMMAND CENTER OR A CENTRAL CONTROL POINT APPROVED BY THE AUTHORITY HAVING JURISDICTION.

(2) DIRECTIONS FOR THE USE OF THE TWO-WAY COMMUNICATION SYSTEM, INSTRUCTIONS FOR SUMMONING ASSISTANCE VIA THE TWO-WAY COMMUNICATION SYSTEM, AND WRITTEN IDENTIFICATION OF THE LOCATION SHALL BE POSTED ADJACENT TO THE TWO-WAY COMMUNICATION SYSTEM.

(3) THE TWO-WAY COMMUNICATION SYSTEM SHALL INCLUDE BOTH AUDIBLE AND VISUAL SIGNALS.

PLUMBING FIXTURES COUNTS

REFER TO SHEET G101 FOR ALL PLUMBING FIXTURE CALCULATIONS

MAX AREA OF EXTERIOR WALL OPENING BASED ON SEPARATION DISTANCE AND DEGREE OF PROTECTION

FBC TABLE 705.8

UNPROTECTED SPRINKLERED	
0 TO LESS THAN 3':	NOT PERMITTED
3' TO LESS THAN 5':	15%
5' TO LESS THAN 10':	25%
10' TO LESS THAN 15':	45%
15' TO LESS THAN 20':	75%
20' TO LESS THAN 25':	NO LIMIT
25' TO LESS THAN 30':	NO LIMIT
30' OR GREATER:	NO LIMIT

SHAFT ENCLOSURES

CONVENIENCE OPENING: TWO STORY OPENINGS

SHAFT ENCLOSURES — FBC 713.4

LESS THAN 4 STORIES: 1 HOUR
4 STORIES OR MORE: 2 HOURS
BUT NOT LESS THAN THE THE FLOOR ASSEMBLY PENETRATED, BUT NEED NOT EXCEED 2 HOURS.

FIRE WINDOW ASSEMBLY FIRE PROTECTION RATINGS

FBC TABLE 716.6

TYPE OF WALL ASSEMBLY	REQ. WALL ASSEMBLY RATING (HRS)	MIN. FIRE WINDOW ASSEMBLY RATING (HRS)
INTERIOR WALLS:		
FIRE WALLS	ALL	NP [A]
FIRE BARRIERS	> 1 1	NP [A] NP [A]
INCIDENTAL USE AREAS (707.3.7, MIXED OCCUPANCY SEPARATIONS (707.3.9)	1	3/4
FIRE PARTITIONS	1 0.5	3/4 1/3
EXTERIOR WALLS	> 1 1 0.5	1 1/2 3/4 1/3
PARTY WALL	ALL	NP

NP = NOT PERMITTED
A. NOT PERMITTED EXCEPT FIRE-RESISTANCE-RATED GLAZING ASSEMBLIES TESTED TO ASTM E 119 OR UL 263, AS SPECIFIED IN SECTION 716.2.

MEANS OF EGRESS SIZING

FBC 1005.1 GENERAL. ALL PORTIONS OF THE MEANS OF EGRESS SYSTEM SHALL BE SIZED IN ACCORDANCE WITH THIS SECTION. FBC 1005.3.1 STAIRWAYS. THE CAPACITY, IN INCHES (mm), OF MEANS OF EGRESS STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH STAIRWAY BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.3 INCH (7.6 mm) PER OCCUPANT. WHERE STAIRWAYS SERVE MORE THAT ONE STORY, ONLY THE OCCUPANT LOAD OF EACH STORY CONSIDERED INDIVIDUALLY SHALL BE USED IN CALCULATING THE REQUIRED CAPACITY OF THE STAIRWAYS SERVING THAT STORY.
FBC 1005.3.2 OTHER EGRESS COMPONENTS. THE CAPACITY, IN INCHES (mm), OF MEANS OF EGRESS COMPONENTS OTHER THAN STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH COMPONENT BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.2 INCH (5.1 mm) PER OCCUPANT.

REFER TO LIFE SAFETY PLANS FOR REQUIRED AND PROVIDED EGRESS WIDTHS FOR ALL FLOORS.

GENERAL MEANS OF EGRESS

MIN. HEADROOM:	7'-6" (PER FBC 1003.2 & NFPA 7.1.5.1)
MIN. HEADROOM @ STAIR:	6'-8" (PER FBC 1003.3.1 & NFPA 7.1.5.3)

THRESHOLD BUILDINGS

THRESHOLD BUILDING. IN ACCORDANCE WITH FLORIDA STATUTE, ANY BUILDING WHICH IS GREATER THAN 3 STORIES OR 50 FEET (15 240 MM) IN HEIGHT, OR WHICH HAS AN ASSEMBLY OCCUPANCY CLASSIFICATION THAT EXCEEDS 5,000 SQUARE FEET (464.52 M2) IN AREA AND AN OCCUPANT CONTENT OF GREATER THAN 500 PERSONS.

BUILDING 01 IS 46'-5" TO THE TOP OF HEIGHEST ROOF. THEREFORE IT IS NOT A THRESHOLD BLDG.

BUILDING 02 AND 03 ARE ASSEMBLY OCCUPANCIES AND WILL HAVE MORE THEN 500 PERSONS IN EACH. THEREFORE THEY WILL BE BOTH THRESHOLD BUILDINGS.

OPENING FIRE PROTECTION ASSEMBLIES, AND RATINGS

FBC TABLE 716.5

TYPE OF ASSEMBLY	REQ' WALL ASSEMBLY RATING, HRS	MIN. FIRE DOOR & FIRE SHUTTER ASSEMBLY RATING, HRS	DOOR VISION PANEL SIZE	FIRE-RATED GLAZING MARKING DOOR VISION PANEL [d]	MIN. SIDELIGHT/ TRANSOM ASSEMBLY RATING (HRS)		FIRE-RATED GLAZING MARKING SIDELIGHT/TRANSOM PANEL	
					FIRE PROTECTION	FIRE RESISTANCE	FIRE PROTECTION	FIRE RESISTANCE
FIRE PARTITIONS: CORRIOR WALLS	1	3/4	MAXIMUM SIZE TESTED	D-20	3/4		D-H-OH-45	
FIRE BARRIERS, 1 HR RATING: ENCLOSURES FOR SHAFTS, EXIT ACCESS STAIRWAYS, EXITE ACCESS RAMPS, INTERIOR EXIT STAIRWAYS, INTERIOR EXIT RAMPS, & EXIT PASSAGEWAY WALLS	1	1	100 SQ IN [c]	≤100 sq. in. = D-H-60 >100 sq. in.= D-H-T-W-60	NOT PERMITTED	1	NOT PERMITTED	W-60

a.Two doors, each with a fire protection rating of 11/2 hours, installed on opposite sides of the same opening in a fire wall, shall be deemed equivalent in fire protection rating to one 3-hour fire door.

b.Fire-resistance-rated glazing tested to ASTM E119 in accordance with Section 716.2 shall be permitted, in the maximum size tested.

c.Except where the building is equipped throughout with an automatic sprinkler and the fire-rated glazing meets the criteria established in Section 716.5.5.

d.Under the column heading "Fire-rated glazing marking door vision panel," W refers to the fire-resistance rating of the glazing, not the frame.

e.See Section 716.5.8.1.2.1.

GENERAL NOTES - LIFE SAFETY AND CODE REQUIREMENTS

FOLLOWING ARE SOME OF THE MIN. CODE REFERENCES THAT CONTRACTOR (S) SHALL COMPLY WITH DURING CONSTRUCTION. THIS LIST BY NO MEANS DEFINES A COMPLETE AND COMPHRENENSIVE APPLICABLE CODE CITATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MEET ALL APPLICABLE CODE REQUIRMENTS AND AS PER IDENTIFIED BY THE AHJ FOR THIS PROJECT.

1. CONSTRUCTION TOLERANCES ARE CRITICAL TO UNIFORM ENFORCEMENT OF CODE PROVISIONS. WHEN RANGES ARE SPECIFIED IN THE CODE AND THE INSTALLATION FALLS OUTSIDE OF THE MAXIMUM / MINIMUM REQUIREMENTS REINSTALLATION OF THE ITEM WILL BE REQUIRED. IF A SPECIFIC ITEM IS REQUIRED BY CODE TO BE A SPECIFIC DIMENSION THEN A CONSTRUCTION TOLERANCE OF +/- 1/4" IS PERMITTED. AGAIN IF THE ITEM IS INSTALLED OUTSIDE OF THE CONSTRUCTION TOLERANCE REINSTALLATION WILL BE REQUIRED.

2. STANDPIPES ARE REQUIRED TO BE INSTALLED AS EACH FLOOR FRAMING AND SLAB IS COMPLETED. REFERENCE: NFPA 1 (2018) 16.4.5. AND 16.4.3.3.2 PROVIDE A READILY ACCESSIBLE AND CONSPICUOUS FIRE DEPARTMENT CONNECTION. PROVIDE A HOSE CONNECTION ON EACH FLOOR.

3. DURING CONSTRUCTION, UNTIL THE PERMANENT STAIRWAYS ARE CONSTRUCTED, AT LEAST ONE TEMPORAY STAIRWAY SHALL BE PROVIDED TO THE LEVEL WHERE WORK IS BEING PERFORMED, AND SUCH STAIR SHALL BE A MINIMUM OF 48" IN WIDTH, INCLUDING LANDINGS. THIS IS TO FACILITATE THE USE OF GURNEYS BY FIRST RESPONDERS. TEMPORARY STAIRWAY SHALL PROVIDE THE SAFETY REQUIRMENTS FOR THE GURDRAILS AND FALL PROTECTION AND MEET THE MINIMUM OSHA REQUIREMENTS. REFER TO NFPA 1 - (2018) SECTION 16.3.4.5 CONSTRUCTION STAIRS REQUIREMENTS. LADDERS ARE NOT ACCEPTED AS THE MEANS OF EGRESS.

4. REFER TO NFPA 1 (2018) SECTION 16.3.6 FOR REQUIREMENTS OF FIRST AID AND FIRE FIGHTING EQUIPMENT DURING CONSTRUCTION.

5. THE LANDINGS ON EACH SIDE OF ANY DOOR SHALL NOT VARY BY MORE THAN ONE-HALF INCH FOR THE LENGTH OF THE WIDEST LEAF OF THE DOOR. REF: NFPA-101 7.2.1.3.2

6. THE STAIR DIMENSIONS ARE HIGHLY CRITICAL. STRICT ENFORCEMENT OF STAIR DIMENSIONS IS ENFORCED IN ACCORDANCE WITH THE REQUIREMENTS FLORIDA FIRE PREVENTION CODE & FLORIDA BUILDING CODE. FOR DIMENSIONAL UNIFORMITY THE VARIATION IN ADJACENT RISER AND TREAD DIMENSIONS CANNOT EXCEED 3/16". NFPA 101 (2018) 7.2.2.3.6.

INTERIOR FINISHES

PER FBC SECTION 803.1 INTERIOR WALL AND CEILING FINISH MATERIALS SHALL BE CLASSIFIED FOR FIRE PERFORMANCE AND SMOKE DEVELOPMENT IN ACCORDANCE WITH SECTION 803.1 OR 803.
FLAME SPREAD RATINGS AND SMOKE DEVELOPMENT PER NFPA 101 SECTION 10.2.3.4 AND FBC 803.1.1 ARE OUTLINED BELOW:

CLASSIFICATION	FLAME SPREAD RATING	SMOKE DEVELOPMENT INDEX
Class A	0 – 25	0 - 450
Class B	26 - 75	0 - 450
Class C	76 - 200	0 - 450

FFPC (NFPA 101) SECTION 12.3.3 AND 14.3.3.2 DICTATE INTERIOR FINISH CLASSIFICATIONS REQUIRED FOR SPECIFIC ELEMENTS OF ASSEMBLY AND EDUCATIONAL OCCUPANCIES. IN GENERAL, THESE SECTIONS REQUIRE EITHER CLASS A OR CLASS B INTERIOR FINISHES. HOWEVER, SECTION 10.2.8 ALLOWS THAT IN A FULLY SPRINKLERED BUILDING, CLASS C INTERIOR WALL AND CEILING FINISH MATERIALS MAY BE USED IN ANY LOCATION WHERE CLASS B IS REQUIRED, AND CLASS B INTERIOR WALL AND CEILING FINISH MATERIALS MAY BE USED IN ANY LOCATION WHERE CLASS A IS REQUIRED. THIS EXCEPTION DOES NOT APPLY TO SPECIFIC MATERIALS DISCUSSED IN SECTION 10.2.4 (TEXTILE, EXPANDED VINYL, CELLULAR/FOAMED PLASTIC WALLS/CEILINGS, ETC.). THE INTERIOR FINISH REQUIREMENTS IN ACCORDANCE WITH FBC AND NFPA ARE SUMMARIZED IN THE FOLLOWING TABLES (THE MOST RESTRICTIVE REQUIREMENT IS INDICATED):

MINIMUM INTERIOR FINISH REQUIREMENTS FOR EDUCATIONAL OCCUPANCIES

BUILDING ELEMENT	INTERIOR FINISH REQUIREMENT
EXITS	Class A
EXIT ACCESS CORRIDORS	Class C
OTHER THAN EXITS	Class A of Class B
LOW HEIGHT PARTITIONS NOT EXCEEDING 60 IN. AND USED IN LOCATIONS OTHER THAN EXITS	Class C
INTERIOR FLOOR FINISH	Class II

MINIMUM INTERIOR FINISH REQUIREMENTS FOR ASSEMBLY OCCUPANCIES

BUILDING ELEMENT	INTERIOR FINISH REQUIREMENT
EXITS	Class A
EXIT ACCESS CORRIDORS	Class A OR CLASS B
OTHER THAN EXITS	Class B
INTERIOR FLOOR FINISH	Class II

FLORDA PRODUCT APPROVAL ENVELOPE COMPONENTS SCHEDULE

TAG #	COMPONENT	MANUFACTURER	MODEL #	FPA NUMBER	LMI	ZONE /LEVEL
FPA-1	STOREFRONT	KAWNEER CO.	IR521T	FL47012.1	Y	Zone 3, Level D
FPA-2	STOREFRONT DOOR	KAWNEER CO.	350 IR	FL8786.2	Y	Zone 3, Level D
FPA-3	WINDOW - FIXED	KAWNEER CO.	8400 TL	FL16792.1	Y	Zone 3, Level D
FPA-4	WINDOW -SLIDING	KAWNEER CO.	8400 TL	FL15115.1	Y	Zone 3, Level D
FPA-5	LOUVER	RUSKIN CO.	EME520MD	21829.11	Y	Zone 3, Level D
FPA-6	ROOF HATCH	HART AND COOLEY	M1 3'-0" x 2'-6"	16737.1	Y	Zone 3, Level D
FPA-7	SINGLE PLY MEMBRANE ROOF SYSTEM	SEAMAN CORP.	FIBERTITE -KEE	FL4930.1 - LWC-1	Y	Zone 3, Level D
FPA-8	STANDING SEAM METAL PANEL ROOF...	BERRIDGE MANUF.	ZEE-LOCK - 180 SEAM	FL11241.4	Y	Zone 3, Level D

VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL SCHOOL
WEST - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
VERO BEACH, FLORIDA 32968

SCHENKEL SHULTZ

834 N. Orange Avenue
Winter Park, FL 32789
voice 407-872-3322

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REVISIONS

MARK	DESCRIPTION	DATE
5	Addendum -04 - IRC BUILDING REVIEW COMMENTS	6/6/2025

COMM. NO.: 2024117
ISSUE DATE: 12/23/2024
DRAWN BY: JL

CODE SUMMARY & CALCULATIONS

G010
BID/ PERMIT DOCUMENTS

UL DESIGN NO. U411

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 Certified 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 Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

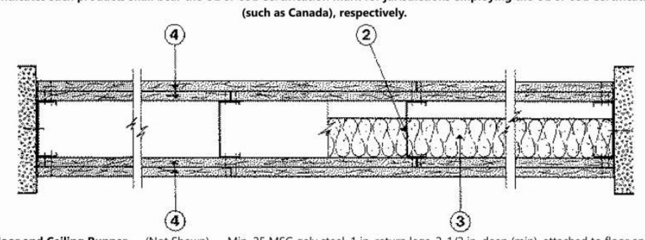
See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. **U411**

February 16, 2024

Nonbearing Wall Rating — 2 Hr.
*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Floor and Ceiling Runner —** (Not Shown) — Min. 25 MSG galv steel, 1 in. return legs, 2-1/2 in. deep (min), attached to floor and ceiling with fasteners 24 in. OC max.

1A. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — As an alternate to Item 1 - For use with Item 2A, channel shaped, min 2-1/2 in. deep, attached to floor and ceiling with fasteners 24 in. OC. max.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CEMCO, LLC — Viper20™ Track

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

1B. **Floor and Ceiling Runners —** (Not Shown) — For use with Item 2B- Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min width to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1C. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — As an alternate to Item 1 - For use with Item 2C, channel shaped, min 2-1/2 in. wide fabricated from min 0.015 in. thick galv steel, attached to floor and ceiling with fasteners 24 in. OC. max.
CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMFCWBS L L C — ProTRAK

MBA METAL FRAMING — ProTRAK

RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

1D. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — As an alternate to Item 1 - For use with Item 2D, channel shaped, min 2-1/2 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners 24 in. OC. max.
TELLING INDUSTRIES L L C — TRUE-TRACK™

1E. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — As an alternate to Item 1 - For use with Item 2E, channel shaped, min 2-1/2 in. wide fabricated from min 25 MSG steel, attached to floor and ceiling with fasteners 24 in. OC. max.
KIRII (HONG KONG) LTD — Type KIRII

1F. **Floor and Ceiling Runners —** (Not Shown) — Channel shaped, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below, attached to floor and ceiling with fasteners spaced max 24 in. OC.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

1G. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — As an alternate to Item 1 - For use with Item 2G, channel shaped, min 2-1/2 in. deep, attached to floor and ceiling with fasteners 24 in. OC. max.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

1H. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — As an alternate to Item 1 - For use with Item 2J. Channel shaped, attached to floor and ceiling with fasteners 24 in. OC. max.
BAILEY METAL PRODUCTS LTD — Type PLATINUM PLUS

1I. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — As an alternate to Item 1 - For use with Item 2K, channel shaped, min 3-1/2 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners 24 in. OC. max.
RESCUE METAL FRAMING, L L C — AlphaTRAK

1J. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — As an alternate to Item 1 - For use with Item 2L. Channel shaped, attached to floor and ceiling with fasteners 24 in. OC. max.
OEG BUILDING MATERIALS — OEG Track

1K. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — As an alternate to Item 1 - For use with Item 2M, channel shaped, min 2-1/2 in. deep, formed of min. 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners 24 in. OC. max.
CEMCO, LLC — Viper X Track

1L. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — As an alternate to Item 1 - For use with Item 2N. Channel shaped, min. 2-1/2 in. deep, attached to floor and ceiling with fasteners 24 in. OC. max.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D25

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D25

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D25

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D25

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D25

TELLING INDUSTRIES L L C — Type SUPREME D25

UNITED METAL PRODUCTS INC — Type SUPREME D25

1M. **Floor and Ceiling Runner —** (Not shown) - As an alternate to Item 1, For use with Items 2O and 4O - Min 25 MSG galv steel, 1-5/8 in. deep (min), attached to floor and ceiling with fasteners 24 in. OC. max.

1N. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 – For use with Item 2P, proprietary channel shaped runners, 1-1/4 in. wide by min. 2-1/2 in. deep fabricated from min 0.019 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

PANEL REY S A – SUPRA Track 20EQ/19 mil

2. **Steel Studs —** Min 2-1/2 in. deep, formed of min 25 MSG galv steel max stud spacing 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

2A. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1G, channel shaped studs, min 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CEMCO, LLC — Viper20™

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

2B. **Steel Studs —** (As an alternate to Item 2, For use with Item 4D, 4H, and 4J) — 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 Item 1C, channel shaped studs, min 2-1/2 in. wide fabricated from min 0.015 in. thick galv 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 METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

2D. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1D, channel shaped studs, min 2-1/2 in. wide fabricated from min 0.018 in. thick galv 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™

2E. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1E, channel shaped studs, min 2-1/2 in. wide fabricated from min 25 MSG steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
KIRII (HONG KONG) LTD — Type KIRII

2F. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1G, channel shaped studs, min 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

2G. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, Min 2-1/2 in. deep, formed of min 25 MSG galv steel max stud spacing 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
EB METAL INC — NITROSTUD

2H. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, Min 2-1/2 in. deep, formed of min 25 MSG galv steel max stud spacing 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
OLMAR SUPPLY INC — PRIMESTUD

2I. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1A (3-5/8 in. wide track), channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 1-1/4 in. wide by 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™

2J. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1H, channel shaped, min 3-5/8 in. wide, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
BAILEY METAL PRODUCTS LTD — Type PLATINUM PLUS

2K. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1I, channel shaped studs, min 3-1/2 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
RESCUE METAL FRAMING, L L C — AlphaSTUD

2L. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1J, channel shaped studs, Min 2-1/2 in. deep, formed of min 25 MSG galv steel max stud spacing 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
OEG BUILDING MATERIALS — OEG Stud

2M. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1K, channel shaped studs, min 2-1/2 in. deep, formed of min. 25 MSG (0.018 in. min. bare metal thickness), spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
CEMCO, LLC — Viper X

2N. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1L, channel shaped studs, min depth 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D25

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D25

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D25

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D25

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D25

TELLING INDUSTRIES L L C — Type SUPREME D25

UNITED METAL PRODUCTS INC — Type SUPREME D25

2O. **Framing Members — Steel Studs —** (As an alternate to Item 2) For use with Items 1M and 4O - channel shaped studs min 1-5/8 in. deep, formed of 25 MSG galv steel, max stud spacing 24 in. OC. Studs cut 3/8 in. less than assembly height.

2P. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 – For use with Item 1N, proprietary channel shaped steel studs, min 1-1/4 in. wide by min 2-1/2 in. deep with 1/4 in. return lips fabricated from min 0.019 in. thick galv steel, spaced 24 in. OC max. Studs cut 3/4 in. less in length than assembly height.

PANEL REY S A – SUPRA Stud 20EQ/19 mil

3. **Batts and Blankets* —** (Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity.
See **Batts and Blankets** (BZJZ) category for names of manufacturers

ROCKWOOL — Type AFB, min. density 1.69 pcf / 27.0 kg/m³

ROCKWOOL MALAYSIA SDN BHD — Type Acoustical Fire Batts

3A. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 3) — (100% Borate Formulation) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft³, in accordance with the application instructions supplied with the product.
Applegate Greenfiber Acquisition LLC — Insulmax and SANCTUARY for use with wet or dry application.

3B. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 3) — Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.
NU-WOOL CO INC — Cellulose Insulation

3C. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 3) — Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft³.
INTERNATIONAL CELLULOSE CORP — Celbar-RL

3D. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 3) — Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft³.

Applegate Greenfiber Acquisition LLC— Applegate Advanced Stabilized Cellulose Insulation

3E. **Foamed Plastic* —** As an alternate to Batts and Blankets (Items 3-3D), for use with Item 4Q — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness.

CARLISLE SPRAY FOAM INSULATION — Types SealTite ONE, SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

3F. **Foamed Plastic* —** As an alternate to Batts and Blankets (Items 3-3E), for use with Item 4Q — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with min. 20 MSG thickness.

BASF CORP- Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite® HP+, FE137®, FE158®, Spraytite® 158, Spraytite® SP, Spraytite® 81205, Spraytite® Comfort XL, Walltite® XL, Walltite® MAX

4. **Gypsum Board* —** 5/8 in. thick, outer layer paper, glass mat or vinyl surfaced. (Laminated System) Gypsum board applied vertically in two layers. Inner layer attached to studs with 1 in. long Type S steel screws spaced 8 in. OC along vertical edges, and 12 in. OC in the field and outer layer laminated to inner layer with joint compound, applied with a notched spreader producing continuous beads of compound about 3/8 in. in diameter, spaced not greater than 2 in. OC. Joints of laminated outer layer offset 12 in. from inner layer joints Outer layer gypsum board attached to floor and ceiling runner track with 1-5/8 in. long Type S steel screws spaced 12 in. OC. Optional, (Direct Attached System), Inner layer attached to studs with 1 in. long Type S steel screws spaced 16 in. OC in the field and along the vertical edges. Outer layer attached to the studs over the inner layer with 1-5/8 in. long Type S steel screws spaced 16 in. OC in the field and along the vertical edges and 12 in. OC to the floor and ceiling runners. Joints of screw-attached outer layer offset from inner layer joints. Joints of outer layer may be taped or untaped.

Nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced.

AMERICAN GYPSUM CO — Types AG-C, AGX-1, M-Glass, AGX-11, LightRoc

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1

CABOT MANUFACTURING ULC — Type X, 5/8 Type X, Type Blueglass Exterior Sheathing

CERTAINTEED GYPSUM INC — Types EGRG, GlasRoc, GlasRoc-2, Type X-1, Type C, or 5/8" Easi-Lite Type X, Type LWTX

CGC INC — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC or WRX

CERTAINTEED GYPSUM INC — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD, LGLLX, CLLX

GEORGIA-PACIFIC GYPSUM L L C — Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPFS6, LS, TG-C, Type X, Veneer Plaster Base-Type X, Water Rated-Type X, Sheathing Type-X, Soffit-Type X, GreenGlass Type X, Type X ComfortGuard Sound Deadening Gypsum Board, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type-DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X, Sheathing - Type LW2X, Soffit - Type LW2X, Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type DGL2W

NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSW, FSW-3, FSW-5, FSW-6, FSW-8, FSW-C, FSW-G, FSMR-C, FSL, Type SBWB, RSX.

NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — Type FR, or WR.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type C, PG-3, PG-5, PG-9, PG-11, PG-C, PGS-WRS, PGI

PANEL REY S A — Types GREX, GRIX, PRX, RHX, MDX, ETX, PRC, PRC2, PRX2

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air

THAI GYPSUM PRODUCTS PCL — Type C, M2Tech Type C andType X

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX

4A. **Gypsum Board* —** (As an alternate to Item 4) — Nom 3/4 in. thick, installed as described in Item 4 with 1-1/4 in. long Type S screws for inner layer and 2-1/4 in. long Type S screws for outer layer.
CGC INC — Types AR, IP-AR

UNITED STATES GYPSUM CO — Types AR, IP-AR

USG MEXICO S A DE C V — Types AR, IP-AR

4B. **Gypsum Board* —** (As an alternate to Items 4 and 4A) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Horizontal joints need not be backed by steel framing. Secured as described in Item 4 for the direct attached system. When used in widths other than 48 in., gypsum panels to be installed horizontally.
CERTAINTEED GYPSUM INC — Type C, Type GlasRoc

CGC INC — Type SHX

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air

THAI GYPSUM PRODUCTS PCL — Type X, and Type C, M2Tech Type C

UNITED STATES GYPSUM CO — Type SHX, FRX-G

USG MEXICO S A DE C V — Type SHX

4C. **Gypsum Board* —** (As an alternate to Items 4, 4A and 4B) — Two layers of 5/8 in. thick gypsum board applied horizontally or vertically. Inner layer attached to studs with No. 6 by 1 in. long Type S bugle head screws spaced 24 in. OC along the top and bottom tracks starting 2 in. and then 12 in. from the vertical edge. Inner layer screws spaced 24 in. OC along the studs, starting 2 in. and then 12 in. from the top and bottom of the studs and starting 1-1/4 in. from the horizontal joints when installed horizontally. Outer layer attached to studs with 1-5/8 in. long Type S bugle head screws spaced 16 in. OC along the top and bottom tracks starting 1-3/4 in. from the vertical edge. Outer layer screws spaced 16 in. OC along the studs, starting 1-3/4 in. and then 8 in. from the top and bottom of the studs and starting 1-1/4 in. and then 8 in. from the horizontal joints when installed horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers 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 staggered a min of 12 in. When outer layers are installed horizontally, vinyl or casein, dry or premixed joint compound shall be applied in two coats to joints and screw heads of outer layer. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced.
GEORGIA-PACIFIC GYPSUM L L C — Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPFS6, LS, TG-C, Type X, Veneer Plaster Base-Type X, Water Rated-Type X, Sheathing Type-X, Soffit-Type X, GreenGlass Type X, Type X ComfortGuard Sound Deadening Gypsum Board, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type-DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X, Sheathing - Type LW2X, Soffit - Type LW2X, Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type DGL2W

4D. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2B) — 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. Gypsum board 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.
RAY-BAR ENGINEERING CORP — Type RB-LBG

4E. **Gypsum Board* —** (As an alternate to Items 4 through 4D) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types QuietRock ES

4F. **Gypsum Board* —** (As an alternate to Items 4 through 4E) —5/8 in. thick, applied vertically or horizontally as the outer layer to one side of the assembly. Horizontal joints need not be backed by steel framing. Secured as described in Item 4 for the direct attached system. When used in widths other than 48 in., gypsum panels to be installed horizontally.
CERTAINTEED GYPSUM INC — Type SilentFX

4G. **Gypsum Board* —** As an alternate to Item 4 — Nom. 5/8 in. thick, inner layer attached vertically to studs with 1 in. long Type S steel screws spaced 16 in. OC in the field and along the vertical edges. Outer layer attached to the studs horizontally over the inner layer with 1-5/8 in. long Type S steel screws spaced 16 in. OC in the field and along the vertical edges and 12 in. OC to the floor and ceiling runners. Joints of outer layer must be taped. Nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard.
CABOT MANUFACTURING ULC — Type Blueglass Exterior Sheathing

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-11, PGS-WRS

4H. **Gypsum Board* —** (Not Shown) — (As an alternate to Items 4. For direct attachment only to steel studs Item 2B) — For Direct Application to Studs Only- For use as the base layer on one or both sides of the wall. 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 1-5/8 in. long Type S 12 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. Fasteners for face layer gypsum panels when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4. To be used with Lead Batten Strips (see Item 5A) or Lead Discs (see Item 6A).
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4I. **Gypsum Board* —** (As an alternate to Item 4, not for use with Items 1C and 2C or 1L and 2N) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 4.
CGC INC — Type ULX

UNITED STATES GYPSUM CO — Type ULX

USG MEXICO S A DE C V — Type ULX

4J. **Gypsum Board* —** (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2B) — 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

4K. **Gypsum Board —** (As an alternate to Items 4 through 4J, not for use with Items 1C and 2C.) — Two layers of nominal 15 mm thick gypsum board applied vertically. Inner layer attached to studs with No. 3.5 x 1-3/8 in. long bugle head, self-drilling screws spaced 23-5/8 in. OC in the field and 15-3/4 in. OC in the perimeter, with the first screw 2 in. from the edge. Outer layer attached to the studs over the inner layer with No. 3.5 x 1-3/4 in. long bugle head, self-drilling screws spaced 11-13/16 in. OC in the field and 7-7/8 in. OC in the perimeter, with the first screw 3/4 in. from the edge. Outer layer screws staggered from inner layer screws. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layer staggered one stud cavity. Self-adhesive fiberglass mesh (9x9 mesh) tape, nom 2 in. wide, applied over all joints of outer layer panels. Dry or premixed joint compound applied in two coats to joints over the mesh tape and screw heads of outer layer.
GYPSEMNA CO LLC — Types MRFW, FW, TF

4L. **Gypsum Board* —** (As an alternate to Items 4 through 4K) — Two layers of 5/8 in. thick gypsum board applied vertically or horizontally. Inner layer attached to studs with #6 x 1 in. long bugle head screws spaced 12 in. OC along the top and bottom tracks and 16 in. OC in the field and along the vertical edges. Outer layer attached to studs with #6 x 1-5/8 in. long bugle head screws spaced 12 in. OC along the top and bottom tracks and 16 in. OC in the field and along the vertical edges. Vertical joints are centered over studs and staggered between layers and on opposite sides of the wall. Horizontal joints on the face layer are staggered 12 in. from the base layer. Horizontal joints need not to be backed by steel framing.
CERTAINTEED GYPSUM INC — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD

4M. **Wall and Partition Facings and Accessories* —** (As an alternate to Items 4 through 4L) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527.

4N. **Gypsum Board* —** (As an alternate to Item 4 through 4M) — For direct application to studs only - Four layers nom. 5/16 in. thick gypsum panels applied vertically or horizontally. When applied horizontally, base layer secured to studs with 1 in. Type S screws spaced 24 in. OC. Second layer installed with joints offset 12 in. from base layer and secured with 1 in. Type S screws spaced 24 in. OC. Third layer installed with joints in line with base layer and secured with 1-1/2 in. Type S screws spaced 16 in. OC. Fourth layer installed with joints in line with second layer and secured with 1-5/8 in. Type S screws spaced 12 in. OC. For all layers, screws offset 4 in. from previous layer. When applied vertically, base layer secured with 1 in. Type S screws spaced 24 in. OC. Second layer secured with joints offset one stud cavity and secured with 1 in. Type S screws spaced 24 in. OC. Third layer installed with joints in line with base layer and secured with 1-1/2 in. Type S screws spaced 12 in. OC. Fourth layer secured with joints in line with second layer and secured with 1-5/8 in. Type S screws spaced 8 in. OC along vertical edges and 12 in. OC in the field. For all layers, screws offset 4 in. from previous layer.
NATIONAL GYPSUM CO — Type FSW

4O. **Gypsum Board* —** (As an alternate to Items 4 through 4N) — Two layers of 5/8 in. thick gypsum board applied vertically or horizontally. Inner layer attached to studs with 1 in. long Type S screws spaced 16 in. OC in the field and vertical edges and along top and bottom tracks. Outer layer attached to studs with 1-5/8 in. long Type S screws spaced 16 in. OC in the field and vertical edges and along the top and bottom tracks. Vertical joints are centered over studs and staggered between layers and on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Horizontal edge joints and horizontal butt joints in adjacent layers need not be staggered.
NATIONAL GYPSUM CO — Type FSLX

4P. **Wall and Partition Facings and Accessories* —** (As an alternate to Item 4) — Nominal 1-3/8 in. thick, 4 ft wide panels, applied vertically or horizontally. Fastened with #6 x 2 in. long drywall screws spaced 8 in. OC along the perimeter and 12 in. OC in the field.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 545

4Q. **Gypsum Board***— (As an alternate to Item 5 when Foam Plastic insulation (Item 3E or 3F) is used) **—** Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 5 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-1/4 in. long Type S steel screws spaced 8 in. OC at perimeter and in the field. For 2 layer assemblies outer layer will be attached to studs over inner layer with the 1-7/8 in. long steel screws spaced 8 in. OC.

5. **Lead Batten Strips —** (Not Shown, For Use With Item 4D) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with 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 batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum board (Item 4D) and optional at remaining stud locations. Required behind vertical joints.

5A. **Lead Batten Strips —** (Not Shown, for use with Item 4H) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 6) and optional at remaining stud locations.

6. **Lead Discs or Tabs —** (Not Shown, For Use With Item 4D) — Used in lieu of or in addition to the lead batten strips (Item 5) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4D) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

6A. **Lead Discs —** (Not Shown, for use with Item 4H) — Max 5/16 in. diam by max0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

7. **Mineral and Fiber Board* —** (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling runners with 1-5/8 in. long Type S steel screws, spaced 12 in. OC. The required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
HOMASOTE CO — Homasote Type 440-32

7A. **Mineral and Fiber Board —** (Optional, Not Shown) — For optional use as an additional layer on one side of wall - Nom 1/2 in. thick, 4 ft wide, square edge fiber boards applied vertically to studs on one side of the wall in between the wood studs and the UL Classified Gypsum Board (Item 4). Fiber boards installed with 1-1/4 in. long, Type S steel screws spaced 12 in. OC max, with the last screws spaced 2 in. and 6 in. from edge of board. Gypsum board (Item 4) installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
BLUE RIDGE FIBERBOARD INC — SoundStop

8. **Furring Channels —** (Optional, Not Shown — not for use with Items 4D, 4H, 4J, or 4N) — 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.

8A. **Framing Members* —** (Optional on one or both sides, Not Shown — not for use with Items 4D, 4H, 4J, or 4N) — As an alternate to Item 8, furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b.

b. **Steel Framing Members* —** Used to attach furring channels (Item 8Aa) to studs. Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75) 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 and RSIC-V (2.75) 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. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75)

8B. **Framing Members* —** (Optional on one or both sides, Not Shown — Not for use with Items 4D, 4H, 4J, or 4N) — As an alternate to Item 8, furring channels and Steel Framing Members 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. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.Gypsum board attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

8C. **Steel Framing Members* —** (Optional on one or both sides, Not Shown — Not for use with Items 4D, 4H, 4J, or 4N) — As an alternate to Item 8, furring channels and Steel Framing Members 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 8Cb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 8Ca) to studs. Clips spaced 48 in. OC, and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

8D. **Steel Framing Members* —** (Optional on one or both sides, Not Shown — Not for use with Items 4D, 4H, 4J, or 4N) — As an alternate to Item 8, furring channels and Steel Framing Members as described below:
a. **Resilient Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach resilient channels (Item 8Da) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

8E. **Steel Framing Members* —** (Optional on one or both sides, Not Shown — Not for use with Items 4D, 4H, 4J, or 4N) — As an alternate to Item 8, furring channels and Steel Framing Members 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. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 8Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 10 x 2 in. screw through the center hole. Furring channels are friction fit into clips.
MASON INDUSTRIES INC — Type CWC-50

8F **Steel Framing Members* —** (Optional on one or both sides, Not Shown — Not for use with Items 4D, 4H, 4J, or 4N) — As an alternate to Item 8, furring channels and Steel Framing Members as described below:
a **Furring Channels —** Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 4.

b **Steel Framing Members* —** Used to attach furring channels (Item 8Fa) to studs. Clips spaced maximum 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.

CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

9. **Barrier Mesh —** (Optional, Not Shown) - Attached to steel studs on one or both sides of the wall using Barrier Mesh Clips spaced at maximum 12 inches on center vertically, using a flat head type screw penetrating through the steel at least 3/8 of an inch. For Steel Studs less than 0.033 inches in thickness, use self-piercing screws. For Steel Studs equal to or greater than 0.033 inches in thickness, use steel drill screws (self-tapping). Gypsum Board (Item 4) to be installed directly over the Barrier Mesh using prescribed screw patterns with lengths increased by a minimum 1/8 in. Barrier Mesh may be installed with the long dimension of the diamond pattern positioned vertically or horizontally. Barrier Mesh joints may occur as butt joints at the framing members and secured using the Barrier Mesh Clips or occur in between framing members as overlapping joints secured using 18 SWG wire ties spaced a maximum 12 in. on center.
CLARKDIETRICH BUILDING SYSTEMS — Barrier Mesh, Barrier Mesh Clips

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

UL DESIGN NO. U415

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 Certified 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 Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

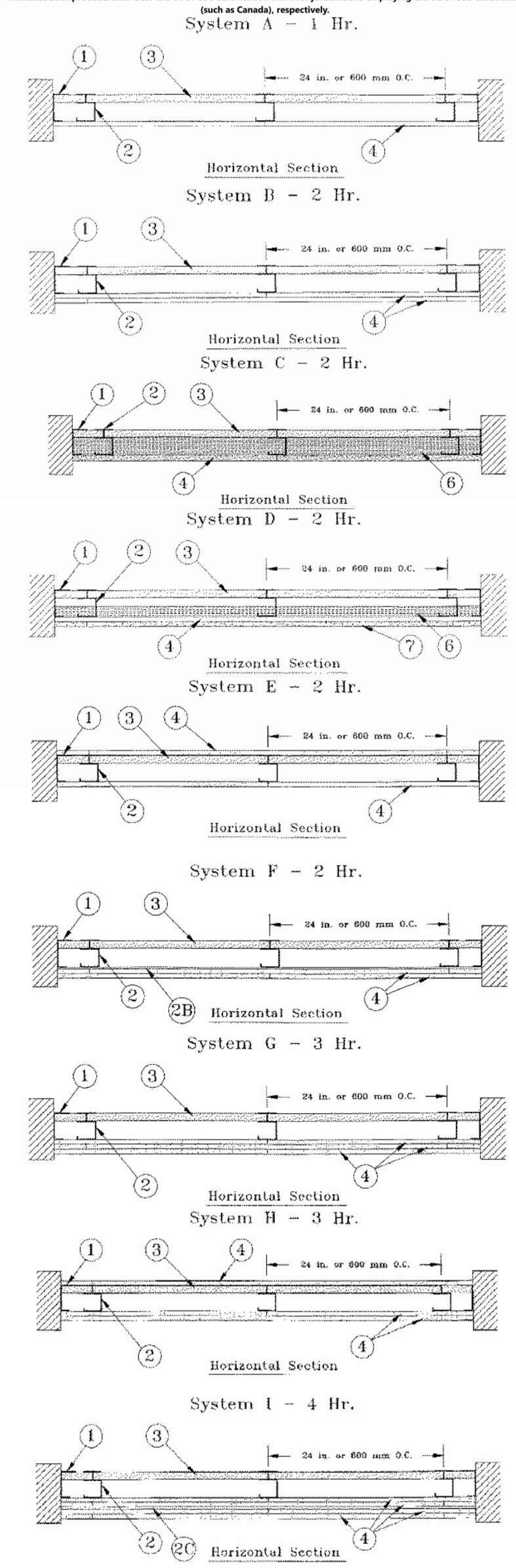
See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. **U415**

February 14, 2022

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr
*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Floor, Side and Ceiling Runners —** "J" - shaped runner, min 2-1/2 in. deep (min 4 in. deep when System C is used), with unequal legs of 1 in. and 2 in., fabricated from min 24 MSG (min 20 MSG when Item 4A, 4B, 4C, 4D or 7 are used) galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. "E" - shaped studs (Item 2A) may be used as side runners in place of "J" - shaped runners.

2. **Steel Studs —** "C-H" - shaped studs, min 2-1/2 in. deep (min 4 in. deep when System C is used), fabricated from min 25 MSG (min 20 MSG when Items 2D, 4A, 4B, 4C, 4D or 7 is used) galv steel. Cut to lengths 3/8 to 1/2 in. less than floor-to-ceiling height and spaced 24 in. or 600 mm OC (max 16 in. OC when Items 4A, 4B, 4C, or 4D are used).

2A. **Steel Studs —** (Not Shown) — "E" - shaped studs installed back to back in place of "C-H" - shaped studs (Item 2) "E" - shaped studs secured together with steel screws spaced a maximum 12 in. OC. Fabricated from min 25 MSG (min 20 MSG when Item 2D, 4A, 4B or 7 is used) galv steel, min 2-1/2 in. deep (min 4 in. deep when System C is used), with one leg 1 in. long and two legs 3/4 in. long. Shorter legs 1 in. apart to engage gypsum liner panels. Cut to lengths 3/8 to 1/2 in. less than floor to ceiling heights.

2B. **Furring Channels —** (Optional, Not Shown) — For use with single or double layer systems. Resilient furring channels fabricated from min 25MSG corrosion protected steel, installed horizontally, and spaced vertically a max 24 in. OC. Flange portion of channel attached to each intersecting "C-H" or "E" stud on side of stud opposite the 1 in. liner panels with 1/2 in. long Type S or S-12 pan-head steel screws. When furring channels are used, wallboard to be installed vertically only. . Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

2C. **Furring Channels —** For use with System I - "Hat" - shaped, 25 MSG galv steel furring channels attached directly over the inner layers of wallboard to each stud with 2 in. long Type S pan head steel screws. Screws alternate from top flange to bottom flange at each stud intersection. Furring channels spaced vertically max 24 in. OC.

2D. **Steel Framing Members* —** (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 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 installed vertically only and attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75)

VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
VERO BEACH, FLORIDA 32963

SCHENKEL SHULTZ

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Winter Park, FL 32789
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2E. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. . Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
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. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.Gypsum board attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Ea) to studs. Clips spaced 24 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

2F. **Steel Framing Members* —** (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
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 installed vertically only and attached to furring channels as described in Item 3.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

PLITEQ INC — Type GENIECLIP

2G. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
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 2Gb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Ga) to studs. Clips spaced 24 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

2H. **Steel Framing Members* —** (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
a. **Resilient Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach resilient channels (Item 2Ha) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

2I. **Steel Framing Members* —** (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-23/32 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 installed vertically only and attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Ia) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

3. **Gypsum Board* —** Gypsum liner panels, nom 1 in. thick, 24 in. or 600 mm (for metric spacing) wide. Panels cut 1 in. less in length than floor to ceiling height. Vertical edges inserted in "H" portion of "C-H" studs or the gap between the two 3/4 in. legs of the "E" studs. Free edge of end panels attached to long leg of vertical "J" - runners with 1-5/8 in. long Type S steel screws spaced not greater than 12 in. OC. When wall height exceeds liner panel length, liner panel may be butted to extend to the full height of the wall. Horizontal joints need not be backed by steel framing. In System I, butt joints in liner panels are staggered min 36 in. Butt joints backed with 6 in. by 22 in. strips of 3/4 in. thick gypsum wallboard (Item 4). Wallboard strips centered over butt joints and secured to liner panels with six 1-1/2 in. long Type G steel screws, three screws along the 22 in. dimension at the top and bottom of the strips.
CGC INC — Type SLX

UNITED STATES GYPSUM CO — Type SLX

USG BORAL DRYWALL SFZ LLC — Type SLX

USG MEXICO S A DE C V — Type SLX

4. **Gypsum Board* —**

System A — 1 Hr
Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. when installed vertically or 8 in OC when installed horizontally. Horizontal joints need not be backed by steel framing.

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, WRC, WRX, USGX.

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System B — 2 Hr
Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in two layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 12 in. OC when installed vertically and staggered 12 in. from base layer screws or 8 in. OC when installed horizontally and staggered 8 in. from base layer screws. Horizontal joints between inner and outer layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in.

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR, or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System C — 2 Hr
Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, secured with 1-1/4 in. long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field when installed vertically or 8 in. OC along the vertical edges and in the field when installed horizontally. Horizontal joints need not be backed by steel framing. Screws along side joints offset 4 in. Requires min 4 in. deep framing per Items 1, 2 and 3. Requires min 3 in. thick mineral wool batts per Item 6.

CGC INC — Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — Type ULTRACODE

USG MEXICO S A DE C V — Types IP-X3 or ULTRACODE

System D — 2 Hr
Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached directly to studs with 1 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Horizontal joints need not be backed by steel framing. Requires face layer of 1/2 or 5/8 in. thick cementitious backer units per Item 7 and min 1-1/2 in. thick mineral wool batts per Item 6.

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System E — 2 Hr
Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. OC when installed vertically or 8 in. when installed horizontally. Horizontal joints need not be backed by steel framing.

CGC INC — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System F — 2 Hr
Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically in two layers. Inner or base layer attached to resilient furring channels (Item 2B) with 1 in. long Type S steel screws spaced 24 in. Outer or face layer attached to resilient furring channels (Item 2B) with 1-5/8 in. long Type S steel screws spaced 12 in. OC and staggered 12 in. from base layer screws. Joints between inner and outer layers staggered 24 in.

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System G — 3 Hr
Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in three layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in OC when installed horizontally. Middle layer attached to studs with 1-5/8 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 2-1/4 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. . Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

CGC INC — Types C, IP-X2, IPC-AR, ULIX, WRC

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX, WRC

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

System H — 3 Hr
Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, two layers over the flange of the "C" section of the studs, one layer over the flange of the "H" section of the studs. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

CGC INC — Types C, IP-X2, IPC-AR, ULIX, WRC

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX, WRC

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

System I — 4 Hr
Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 4 ft wide (or 1200 mm for metric spacing) wallboard with square or tapered edges. Total of four layers to be used. First and second (inner) layers applied vertically or horizontally over the steel studs. Horizontal joints need not be backed by steel framing. When applied vertically, joints centered over studs and staggered min 24 in., otherwise all joints staggered min 12 in. First layer secured to studs with 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to studs with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Third layer applied vertically over the furring channels (Item 2C) with a 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Fourth layer applied vertically or horizontally with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. When applied vertically, joints to be staggered min 24 in. from third layer, otherwise all joints staggered min 12 in.

CGC INC — Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — Type ULTRACODE

USG MEXICO S A DE C V — Types IP-X3 or ULTRACODE

4A. **Gypsum Board* —** (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 in. 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. See Items 1, 2, 2A, 2B and 2D. 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. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9) or Lead Discs or Tabs (see Item 10).
RAY-BAR ENGINEERING CORP — Type RB-LBG

4B. **Gypsum Board* —** (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — 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 #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 — Type Nelco

4C. **Gypsum Board* —** (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — 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. See Items 1, 2, 2A, 2B and 2D. 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. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A). 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 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip.
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4D. **Gypsum Board* —** (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — 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

5. **Joint Tape and Compound —** (Not Shown)

Systems A, B, C, E, F, G, H, I
Joints on outer layers of gypsum boards (Item 4 and 4A) covered with paper tape and joint compound. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges. Exposed screw heads covered with joint compound.

6. **Batts and Blankets* —**

Systems A, B, E, F, G, H, I
(Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt mineral bearing the UL Classification Marking as to Fire Resistance.

Systems C & D
Min 3 in. (System C) and min 1-1/2 in. (System D) thick mineral wool batts, friction fitted between the studs and floor and ceiling runners.

ROCKWOOL — Type AFB, min. density 1.8 pcf / 28.8 kg/m^3

THERMAFIBER INC — Type SAFB, SAFB FF

7. **Cementitious Backer Units* —** (System D) — Nom 1/2 or 5/8 in. thick panels, square edge, attached to studs over gypsum wallboard with 1-5/8 in. long, Type S-12, corrosion resistant steel screws spaced 8 in. OC and staggered 8 in. from gypsum wall board screws. Joints covered with glass fiber mesh tape. Vertical joints staggered one stud cavity from gypsum wallboard joints. Horizontal joints staggered a min of 12 in. from the gypsum wallboard joints.
UNITED STATES GYPSUM CO — Type DCB

8. **Laminating Adhesive* —** (Optional, Not Shown) — Used to bond outer layer of Cementitious Backer Units (Item 7) to inner layers of Gypsum Board (Item 4) in System D. ANSI A136.1 Type 1 organic adhesive applied with 1/4 in. square notched trowel. See Adhesives (BYWR) in the Fire Resistance Directory or Adhesives (BJLZ) in the Building Materials Directory for names of Classified companies.

9. **Lead Batten Strips —** (Not Shown, For Use With Item 4A) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with 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 batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4A) and optional at remaining stud locations. Required behind vertical joints.

9A. **Lead Batten Strips —** (Not Shown, for use with Item 4C) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D".. Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 6) and optional at remaining stud locations.

10. **Lead Discs or Tabs —** (Not Shown, For Use With Item 4A) — Used in lieu of or in addition to the lead batten strips (Item 9) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4A) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

10A. **Lead Discs —** (Not Shown, for use with Item 4C) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

11. **Lead Batten Strips —** (Not Shown, For Use With Item 4B) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4B) and optional at remaining stud locations.

12. **Lead Tabs —** (Not Shown, For Use With Item 4B) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 4B) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

UL DESIGN NO. U419

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 Certified 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 Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

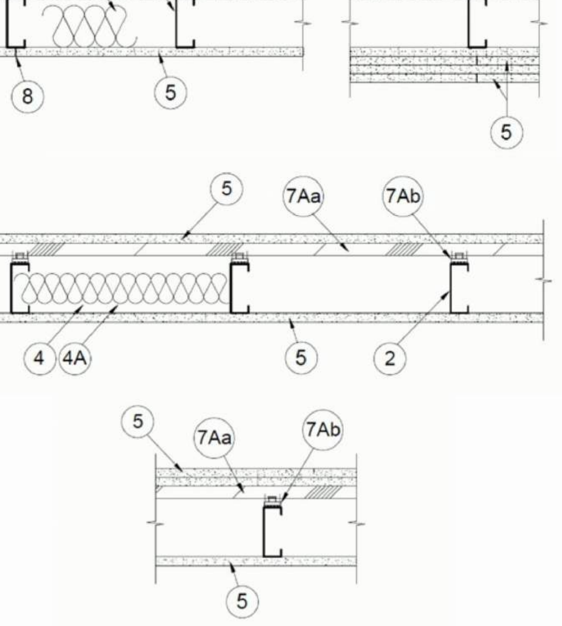
See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No**. U419**

February 16, 2024

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5J)
*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



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 Runner —** Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.
CEMCO, LLC — Viper25™ Track

CRACO MFG INC — SmartTrack25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper25™ Track

1B. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CEMCO, LLC — Viper20™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

1C. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — In lieu of Item 1 — Channel shaped, attached to floor and ceiling with fasteners 24 in. OC. max.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

1D. **Floor and Ceiling Runners —** (Not Shown) — For use with Item 2A — 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.

1E. **Framing Members* — Floor and Ceiling Runners —** (Not Shown, As an alternate to Item 1) — For use with Items 2E, 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 METAL FRAMING — ProTRAK

RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

1F. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2F, 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

1G. **Framing Members* — Floor and Ceiling Runner —** For use with Item 2G, 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

1H. **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 0.018 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

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

1I. **Framing Members* — Floor and Ceiling Runners —** (Not Shown, As an alternate to Item 1) — For use with Items 2H, 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™

1J. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

1K. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2J, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1L. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-1/2 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
RESCUE METAL FRAMING, L L C — AlphaTRAK

1M. **Framing Members* — Floor and Ceiling Runners —** Not Shown — As an alternate to Item 1 — For use with Item 2O, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
RONDO BUILDING SERVICES PTY LTD — Rondo Wall Track

1N. **Framing Members* — Floor and Ceiling Runners —** Not Shown — As an alternate to Item 1 — For use with Item 2P, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
OEG BUILDING MATERIALS — OEG Track

1O. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2Q, proprietary channel shaped runners, min width to accommodate stud size, fabricated from min. 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max.
CEMCO, LLC — Viper X Track

1P. **Framing Members* — Floor and Ceiling Runner —** (Not Shown — Alternate to Item 1) — For use with Item 2R, channel shaped runners pre-equipped with proprietary attachment clips. Min. 3-5/8 in. wide. Legs of top runners minimum 3-1/4 in. wide. Legs of bottom runners minimum 1-1/2 in. wide. Runners attached to floor and ceiling with fasteners 24 in. OC max.

HYPERFRAME INC - Hypertrack

1Q. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2S , proprietary channel shaped runners, min width to accommodate stud size, fabricated from min. 20 EQ/22 mils. (min. 0.0221 in. thick) galvanized steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

JJC INTERNATIONAL DISTRIBUTORS — Non-structural Tracks 3-5/8" and 6".

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. **Steel Studs —** (As an alternate to Item 2, For use with Items 5B, 5E, 5H, 5J or Type ULIX) — 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.

2B. **Framing Members* - Steel Studs —** (As an alternate to Item 2, For use with Items 5C, 5I or Type ULIX) — 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 installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.
CEMCO, LLC — Viper25™

CRACO MFG INC — SmartStud25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™

IMPERIAL MANUFACTURING GROUP INC — Viper25™

2C. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.
CEMCO, LLC — Viper20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2D. **Framing Members* — Steel Studs —** In lieu of Item 2 — 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 D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

2E. **Framing Members* — Steel Studs —** (Not Shown, As an alternate to Item 2) — For use with Items 5F or 5G or 5I or Type ULIX 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 METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

2F. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — 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

2G. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — 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

2H. **Framing Members* — Steel Studs —** (Not Shown, As an alternate to Item 2) — 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™

2I. **Framing Members* — Steel Studs —**

2J. **Framing Members* — Metal Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights

2K. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, 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.
EB METAL INC — NITROSTUD

2L. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, 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.
OLMAR SUPPLY INC — PRIMESTUD

2M. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, 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.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™

2N. **Framing Members*— Steel Studs —** As an alternate to Item 2 — proprietary channel shaped steel studs, min depth 3-1/2 in. and as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in length than assembly height.
RESCUE METAL FRAMING, L L C — AlphaSTUD

2O. **Framing Members* — Steel Studs —** As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.
RONDO BUILDING SERVICES PTY LTD — Rondo Lipped Wall Stud

2P. **Framing Members* — Steel Studs —** As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, min 25 MSG galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.
OEG BUILDING MATERIALS — OEG Stud

2Q. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1O, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.
CEMCO, LLC — Viper X

2R. **Framing Members* — Steel Studs —** (Not Shown — Alternate to Item 2, For use with Item 1P) — Channel shaped steel studs with attachment clips at top and bottom, min 3-5/8 in. depth, spaced a max of 24 in. OC. Studs clipped into floor and ceiling runners (Item 1P). Max 2-3/8 in. extension reveal from top of stud to inside of ceiling runner.

HYPERFRAME INC— Hyperstud

2S. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1Q, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min. 20 EQ/22 mils. (min. 0.0221 in. thick) galvanized steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

JJC INTERNATIONAL DISTRIBUTORS — Non-structural Studs 3-5/8" and 6".

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, gypsum panels attached over OSB or plywood panels and 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 – as an alternate to item 4) — 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.

4B. **Fiber, Sprayed* —** (Optional – as an alternate for items 4 or 4A, for use with Type ULIX) Where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See **Fiber, Sprayed** (CCAZ).
AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

4C. **Foamed Plastic* —** (As an alternate for items 4, 4A or 4B, for use with Item 5K) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness.

CARLISLE SPRAY FOAM INSULATION — Types SealTite ONE, SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

4D. **Foamed Plastic* —** (As an alternate for items 4, 4A or 4B, for use with Item 5K) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for up to 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness.

BASF CORP - Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite HP+, FE137®, FE158®, Spraytite® 158, Spraytite® SP, Spraytite® 81205, Spraytite® Comfort XL, Walltite® XL, and Walltite® MAX

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. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) with Type ULIX need not be staggered. 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, 2C, 2D, 2F, 2G, 2O	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 layers, 3/4 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
4	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, ULIX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — 1/2 in. thick Type C and 5/8 in. thick Type SCX

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, ULIX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, 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 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) — Nom 5/8 in. or 3/4 in. may be used as alternate to all 5/8 in. or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or 3/4 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 2A 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 2B) — 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, ULIX.

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX

UNITED STATES GYPSUM CO — Type SCX, SGX, ULIX.

USG BORAL DRYWALL SFZ LLC — Type SCX

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.
CGC INC — Type USGX

UNITED STATES GYPSUM CO — Type USGX

USG BORAL DRYWALL SFZ LLC — Type USGX

USG MEXICO S A DE C V — 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 2A, 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 1E and 2E 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.
THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX

UNITED STATES GYPSUM CO — 5/8 in. thick Type SCX, SGX, ULIX

USG BORAL DRYWALL SFZ LLC — 5/8 in. thick Type SCX, SGX

5G. **Gypsum Board* —** (As an alternate to Item 5) — For use with Items 1E and 2E 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 2E	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, ULIX or 3/4 in. thick Types IP-X3 or ULTRACODE

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — 1/2 in. thick Types C and 5/8 in. thick SCX

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C, , FRX-G, IP-AR, IP-X2, IPC-AR, ULIX; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, 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 2A, (not to be used with Item 3) - Nom 5/8 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 ULIX, ULX

UNITED STATES GYPSUM CO — Type ULIX, 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 2A, 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

5K. **Gypsum Board* —** (As an alternate to Item 5 when Foam Plastic insulation (Items 4C or 4D) is used) **—** Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 5 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-1/4 in. long Type S steel screws spaced 8 in. OC at perimeter and in the field. For 2 layer assemblies outer layer will be attached to studs over inner layer with the 1-7/8 in. long steel screws spaced 8 in. OC.

VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
VERO BEACH, FLORIDA 32963

SCHENKEL SHULTZ

834 N. Orange Avenue
Winter Park, FL 32789
voice 407-872-3322

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UL DESIGN NO. U419 CONTD.

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. **Single layer system with Type ULIX:** 1 in. long, spaced 12 in. OC in the field and perimeter, when panels are applied horizontally or 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.

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.

7A. **Framing Members* —** (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. 2-9/16 in. or 2-23/32 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.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75) 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 and RSIC-V (2.75) 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. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

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.

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* —** (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.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ca) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
PLITEQ INC — Type GENIECLIP

7D. **Steel Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members 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. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Da) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

7E. **Steel Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members 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 7Eb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.. 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 7Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

7F. **Steel Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — Resilient channels and Steel Framing Members as described below:
a. **Resilient Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 5. Not for use with Item 5A and 5E.

b. **Steel Framing Members* —** Used to attach resilient channels (Item 7Fa) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

7G. **Framing Members* —** (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. 2-23/32 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.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ga) to studs (Item 2). Clips spaced max. 48 in. OC. Clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips.
CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

8. **Joint Tape and Compound —** Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

9. **Siding, Brick or Stucco —** (Optional, Not Shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.

10. **Caulking and Sealants* —** (Optional, Not Shown) — A bead of acoustical sealant applied around the partition perimeter for sound control.
UNITED STATES GYPSUM CO — Type AS

11. **Lead Batten Strips —** (Not Shown, For Use With Item 5B) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with 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 batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5B) and optional at remaining stud locations. Required behind vertical joints.

11A. **Lead Batten Strips —** (Not Shown, For Use With Item 5H) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations.

12. **Lead Discs or Tabs —** (Not Shown, For Use With Item 5B) — Used in lieu of or in addition to the lead batten strips (Item 11) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5B) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

12A. **Lead Discs —** (Not Shown, for use with Item 5H) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

13. **Lead Batten Strips —** (Not Shown, For Use With Item 5E) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5E) and optional at remaining stud locations.

14. **Lead Tabs —** (Not Shown, For Use With Item 5E) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 5E) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

15. **Barrier Mesh —** (Optional, Not Shown) - Attached to steel studs on one or both sides of the wall using Barrier Mesh Clips spaced at maximum 12 inches on center vertically, using a flat head type screw penetrating through the steel at least 3/8 of an inch. For Steel Studs less than 0.033 inches in thickness, use self-piercing screws. For Steel Studs equal to or greater than 0.033 inches in thickness, use steel drill screws (self-tapping). Gypsum Board (Item 5) to be installed directly over the Barrier Mesh using prescribed screw patterns with lengths increased by a minimum 1/8 in. Barrier Mesh may be installed with the long dimension of the diamond pattern positioned vertically or horizontally. Barrier Mesh joints may occur as butt joints at the framing members and secured using the Barrier Mesh Clips or occur in between framing members as overlapping joints secured using 18 SWG wire ties spaced a maximum 12 in. on center.
CLARKDIETRICH BUILDING SYSTEMS — Barrier Mesh, Barrier Mesh Clips

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

UL DESIGN NO. U905

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 Certified 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 Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

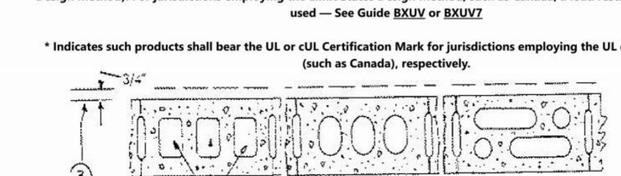
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. **U905**

April 14, 2023

Bearing Wall Rating — 2 HR.
Nonbearing Wall Rating — 2 HR
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



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).
ATLAS ROOFING CORP — EnergyShield Pro Wall Insulation, EnergyShield Pro 2 Wall Insulation, EnergyShield CGF Pro, EnergyShield Ply Pro, EnergyShield® CGF, EnergyShield® PanelCast, EnergyShield® and "EnergyShield® XR

DUPONT DE NEMOURS, INC. — Types Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax IH Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (HDP), TUFF-R™ ci Insulation, Thermax Butler Stylwall Insulation Board and Thermax Morton Heavy Duty Insulation Board

FIRESTONE BUILDING PRODUCTS CO L L C — "Enverge™ CI Foil Exterior Wall Insulation" and "Enverge™ CI Glass Exterior Wall Insulation"

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Types "Xci-Class A", "Xci Foil (Class A)", "Xci 286"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — Types "TSX-8500", "ECOMAXci FR", "TSX-8510", "ECOMAX xi FR White", "ECOMAXci", "ECOMAXci FR Air Barrier", "Thermasheath-XP", "Thermasheath", "Durasheath"

JOHNS MANVILLE — Type "AP Foil-Faced Foam Sheathing"

5A. **Building Units* —** As an alternate to Items 5, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in.

ATLAS ROOFING CORP — EnergyShield® Ply

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — "Xci NB", "Xci Ply"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — "Thermasheath-SI", "ECOBASEci", "ThermaBase-CI", "ECOMAXci FR Ply", "ECOMAXci Ply".

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2023-04-14

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UL DESIGN NO. V497

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 Certified 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.
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BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

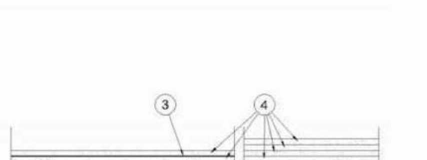
See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. V497

November 15, 2022

Nonbearing Wall Rating - 1 or 2 Hr
*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



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.

1A. **Framing Members*— Floor and Ceiling Runners —** (Not Shown) — As an alternate to Item 1. For use with Item 2A, channel shaped, 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.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track

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.

2A. **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.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™

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* —** 1 Hr Rating - 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 one stud cavity. 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 Types eXP-C, FSL, FSW, FSK, FSW-3, FSW-5, FSW-G, FSK-G, FSW-6, FSW-8, FSW-C, FSMR-C, FSK-C, Type SBWB

4A. **Gypsum Board* —** (As an alternate to Items 3 and 4) -- 1 Hr Rating - 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 or horizontally with vertical joints centered over studs and staggered one stud cavity in adjacent layers. Horizontal edge joints and horizontal butt joints in adjacent layers staggered a minimum of 12 in. Horizontal joints need not be backed by steel framing. First layer applied with 1 in. Type S screws spaced 24 in. oc. Second layer applied with 1-5/8 in. Type S screws spaced 24 in. oc. Face layer applied vertically 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 eXP-C, FSL, FSW, FSK, FSW-3, FSW-5, FSW-G, FSK-G, FSW-6, FSW-C, FSMR-C, FSK-C, Type SBWB

4B. **Gypsum Board* —** 1 Hr Rating - (As an alternate to Item 4A) - Nom. 5/16 in. thick gypsum panels applied vertically. Two layers of 5/16 in. for every single layer of 5/8 in. gypsum board described in Item 4A. Horizontal joints on the same side need not be staggered. Inner layer of each double 5/16 in. layer attached with fasteners, as described in item 4A, spaced 24 in. OC. Outer layer of each double 5/16 in. layer attached per Item 4A.
NATIONAL GYPSUM CO — Type FSW

4C. **Gypsum Board* — 2 Hour Rating —** Applied to one side of steel studs (Item 2). Four layers of 5/8 in. gypsum panels with beveled, square or tapered edges. Gypsum panels applied vertically or horizontally with vertical joints centered over studs and staggered one stud cavity in adjacent layers. Horizontal edge joints and horizontal butt joints in adjacent layers staggered a minimum of 12 in. Horizontal joints need not be backed by steel framing. First layer applied with 1 in. Type S screws spaced 24 in. oc. Second layer applied with 1-5/8 in. Type S screws spaced 24 in. oc. Third layer applied with 2-1/2 in. Type S screws spaced 16 in. oc. Fourth layer applied with 3" Type S screws spaced 12 in. o.c.
NATIONAL GYPSUM CO — 5/8 in. thick Type eXP-C, FSL, FSW, FSK, FSW-3, FSW-5, FSW-G, FSK-G, FSW-6, FSW-C, FSMR-C, FSK-C, Type SBWB

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 outer panels.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2022-11-15

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UL DESIGN NO. D916

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 Certified 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 Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

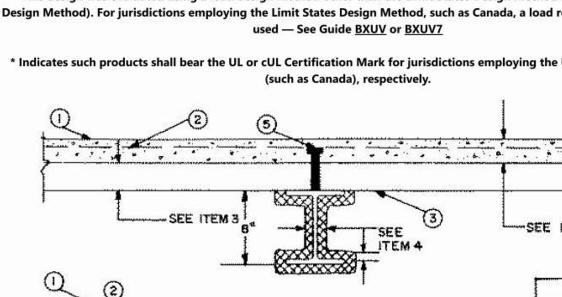
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. D916

February 8, 2024

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)
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



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, or pelletized expanded blast furnace slag aggregate, 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 —** 6x6 - W1.4xW1.4.

3. **Steel Floor and Form Units* —** Composite or non-composite, 1-1/2, 1-5/8, 1-13/16, 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 L L C — 32 in. wide Types NH-32, NHN-32, NHF-32; 36 in. wide Types BH-36, BHN-36, BHN-35-1/4, BHF-36, BHF-36A, 2WH-36, 2WHS-36, 2WHF-36, 2WHF-36A, 3WxH-36, 3WxHF-36, 3WxHF-36A, 3WH-36, 3WHF-36, 3WHF-36A, 3W-36, 3WF-36, DG3W-36, DG3WF-36. All units may be galvanized or Prime Shield. Non-cellular decks may be vented designated with a "V" suffix to the product name. Cellular deck top and bottom sections may be riveted together (designated with "Fr") vs. arc spot welded, "F".

CANAM GROUP INC — 36 in. wide Type P-3623, P-3606, P-3615 and 24 in wide Type P-2432 composite; 24 or 36 in. wide Type 3 in. LOK-Floor; 36 in. wide Types 1.5B, 1.5BI, 1.5BL and 1.5BL; 24 in. or 36 in. wide, vented Types LF2 and LF3.

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.

KAM INDUSTRIES LTD, DBA CORDECK — 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. wide 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.

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.

DECKCO LLC – 36 in. wide, Types DC 1.5B, DC 1.5 Form, DC 1.5 Inverted Composite, DC 1.5 Inverted Form, DC 1.5 Composite, DC 2 Form, DC 2 Composite, DC 3 Form, DC 3 Composite.

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.

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.

INTSEL STEEL EAST LLC — 36 in. wide Types 1.5" COMPOSITE/FLOOR, 2" COMPOSITE/FLOOR, 3" COMPOSITE/FLOOR.

KAM INDUSTRIES LTD, DBA CORDECK — 24 in. wide, Types 2 or 3 in. WDR.

MARLYN STEEL DECKS INC — Type 1.5 CF, 2.0 CF or 3.0 CF.

NEW MILLENNIUM BUILDING SYSTEMS L L C — 24 in. wide Type Versa-Dek.

NEW MILLENNIUM BUILDING SYSTEMS L L C — 24 or 36 in. wide Types 2.0CD, 3.0CD, 2.0CFD, 3.0CFD, 3.0CFDES; 24, 30 or 36 in. wide Types 1.5CD, 1.5CDI, 1.5CDR, 1.5CFD. Fluted 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.

STEEL MASTERS INTERNATIONAL DEPENDABLE STEEL — 36 in. wide Types 2WH-36, 3WH-36. Units may be phos/painted or galvanized.

TATA STEEL INTERNATIONAL MIDDLE EAST FZE — 36 in. wide, Type ComFlor 46.

VALLEY JOIST+DECK — 24 or 36 in. wide Types WVC 1-1/2 or WVC 2.

VERCO DECKING INC - A NUCOR CO — FORMLOK™ deck types PLB, B, BR, PLN3, N3, PLN, N, PLW2, W2, PLW3, W3. Units may be galvanized, phos./ptd., or mill finish. Units may be cellular or acoustical cellular, with the suffix "CD" or "CD-AC" added to the product name, respectively. All non-cellular deck may be vented or non-vented. 12 in. wide PLW2, W2, PLW3 or W3 units may be blended with 24 or in. wide PLW2, W2, PLW3 or W3 units, respectively; or Types N3, PLN3.

VICWEST INC. — Types HB938, HB938CL, HB938-INV, HB308-INV, HB306, HB30V; Types HBS938, HBS938CL and HBS938CL-IN Composite Steel Decks; Types RDS938, RDS938CL and RDS938CL-IN Non-Composite Steel Decks.

VULCRAFT, DIV OF NUCOR CORP — 24, 30 or 36 in. wide Types 1.5VL, 1.5VLI, 1.5PLVLI, 1.5VLP, 1.5PLVLP, 1.5VLR; 24 or 36 in. wide Types 1.5VLPA, 1.5PLVLPA, 2VLI, 2.0PLVLI, 2VLJ, 2VLP, 2.0PLVLP, 2VLPA, 2.0PLVLPA, 3VLI, 3.0PLVLI, 3VLJ, 3VLP, 3.0PLVLP, 3VLPA, 3.0PLVLPA. Types 1.5VL, 1.5VLI, 1.5PLVLI, 1.5VLR, 2VLI, 2.0PLVLI, 2VLJ, 3VLI, 3.0PLVLI, 3VLJ units may be phos/ptd. 24 or 36 in. wide Types 2VLJ, 3VLJ units ++ may be used for max 2 hr Restrained Assembly Rating. 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. 36 in. wide Types 1.5 SB, 1.5 SBR; 24 or 36 in wide Types 2.0 SB, 3.0 SB, 36 in. wide Type High Strength 1.5 SBI, 36 in. wide Type High Strength 1.5 SBN.

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.

++ Side joints of Types 2VLJ or 3VLJ units may be fastened together with No. 8, 3/4 in. long self-drilling Tek screws driven diagonally from the top side through the joint of the units at 36 in. O. C. max.

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 or 36 in. wide, 22 MSG or thicker fluted with clear spans not more than 7 ft 8 in.

(b) 1-1/2 in. deep, 24 or 36 in. wide, 20 MSG or thicker fluted with clear spans not more than 8 ft 8 in.

(c) 1-1/2 in. deep, 24 or 36 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

GCP KOREA INC — Types MK-6/CBF, MK-6/ED, MK-6/HY, MK-6s, Monokote Acoustic 1.

PYROK INC — Type LD.

SOUTHWEST FIREPROOFING PRODUCTS CO — Types 4, 5, 5EF, 5GP, 5MD, 7GP, 7HD, 8EF, 8GP, 8MD, 9EF, 9GP, 9MD.

GCP APPLIED TECHNOLOGIES INC — Types MK-6/HY, MK-6s, RG, Monokote Acoustic 1.

4A. **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. When fluted steel deck is used the area between the steel deck and the beams top flange shall be sprayed min avg and min ind density of 19/18 pcf, respectively for Types 7GP, 7HD, 105. Min avg and min ind density of 22/19 pcf, respectively for Types Z-106, Z-106/G, Z-106/HY. 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 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	1-5/16

+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	Type of Concrete Slab	Spray Applied Fire Resistive Mtl Thkns In. Joist & Bridging
1	1	NW or LW	1-1/8
1-1/2	1-1/2	NW or LW	1-3/4
2	2	NW or LW	2-1/4
3	3	NW or LW	2-7/8

GCP KOREA INC — Types Z-106, Z-106/G, Z-106/HY, Monokote Acoustic 5.

SOUTHWEST FIREPROOFING PRODUCTS CO — Types 7GP, 7HD.

GCP APPLIED TECHNOLOGIES INC — Types Z- 105, Z-106, Z-106/G, Z-106/HY, Monokote Acoustic 5.

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.

CONTINUED

VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
VERO BEACH, FLORIDA 32963

SCHENKEL SHULTZ

834 N. Orange Avenue
Winter Park, FL 32789
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COMM. NO.: 2024117
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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

GCP KOREA INC — Type Z-146 investigated for exterior use

GCP APPLIED TECHNOLOGIES INC — 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."**
KAM INDUSTRIES LTD, DBA CORDECK — 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.
KAM INDUSTRIES LTD, DBA CORDECK — 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 10A) when used. Cast dry density and 28—day min. compressive strength of 190 psi as determined with ASTM C495— 66.
AERIX INDUSTRIES — Cast dry density of 37 (+ or -) 3.0 pcf.

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.

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.
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 (CIYX) 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.
AERIX INDUSTRIES — 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 1.0 + 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.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2024-02-08

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UL DESIGN W419

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 Certified 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 Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings – ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

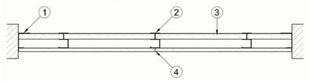
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. **W419**

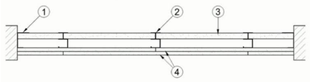
August 4, 2023

Nonbearing Wall Rating — 1, 2, 3, or 4 Hr.
*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

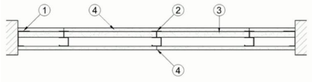
System A - 1 Hr.



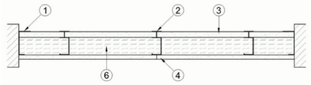
System B - 2 Hr.



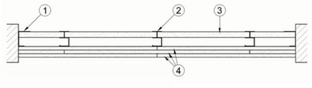
System C - 2 Hr.



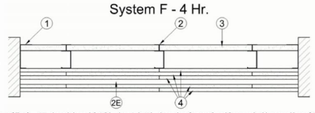
System D - 2 Hr.



System E - 3 Hr.



System F - 4 Hr.



1. **Channel Track —** "J" -shaped channel, 2-1/2 in. deep (min. 4 in. deep when Systems D and F are used) with unequal legs of 1 in. and 2 in., fabricated from No. 25 MSG galv steel. Channel positioned with short leg toward finished side of wall. Channel attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC.

2. **Steel Studs —** (Not shown) "I" -shaped studs, min 2-1/2 in. deep (min. 4 in. deep when System F is used, not for use with System D) by 1-1/2 in. wide, fabricated from min 25 MSG galv steel. Cut to lengths 1/2 in. less than floor to ceiling height and spaced 24 in. OC.

2A. **Steel Studs —** — "C-H" -shaped studs, min 2-1/2 in. deep (min. 4 in. deep when Systems D and F are used) by 1-1/2 in. wide, fabricated from min 25 MSG galv steel. Cut to lengths 1/2 in. less than floor to ceiling height and spaced 24 in. OC.

2B. **Steel Studs —** (Not Shown) — "C-T" - shaped studs, min 2-1/2 in. deep (min. 4 in. deep when Systems D and F are used) by 1-1/2 in. wide, fabricated from min 25 MSG galv steel. Cut to lengths 1/2 in. less than floor to ceiling height and spaced 24 in. OC.

2C. **Furring Channels —** (Optional, Not Shown) — For use with single or double layer systems. Resilient furring channels fabricated from min. 25 MSG corrosion protected steel, installed horizontally, and spaced vertically a max. 24 in. OC. Flange portion of channel attached to each intersecting stud on side of stud opposite the 1 in. liner panels with 1/2 in. long Type S or S-12 pan-head steel screws. When furring channels are used, gypsum board to be installed vertically.

2D. **Steel Framing Members* —** (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with cementitious backer units (Item 7)
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 installed vertically only and attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Da) to studs (Items 2, 2A, or 2B). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
PAC INTERNATIONAL L L C — Types RSIC-1

2E. **Furring Channels —** For use with System F. "Hat" shaped, min. 22 MSG galv steel furring channels attached directly over the three liner layers of wallboard to each stud with 2-1/4 in. long Type S bugle head steel screws. Screws alternate from top flange to bottom flange at each stud intersection. Furring channels spaced vertically max 16 in. OC.

2F. **Steel Framing Members* —** (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with cementitious backer units (Item 7):
a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-5/8 in. wide by 7/8 in deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board installed vertically only and attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Fa) to studs (Items 2, 2A, or 2B). Clips spaced 24 in. OC, and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.

STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type AZ37R

2G. **Steel Framing Members* —** (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with cementitious backer units (Item 7):
a. **Furring Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with a double strand of No. 18 AWG twisted steel wire. Gypsum board installed vertically only and attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Ga) to studs (Items 2, 2A, or 2B). Clips spaced 24 in. OC, and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

2H. **Steel Framing Members* —** (Optional, Not Shown) — For use with single or double layer systems. Resilient channels and Steel Framing Members as described below. Not to be used with cementitious backer units (Item 7):
a. **Resilient Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach resilient channels (Item 2Ha) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

3. **Gypsum Board* —** 1 in. thick gypsum wallboard liner panels, supplied in nom 24 in. widths. Panels cut 1 in. less in length than floor to ceiling heights. Vertical edges inserted in "I" studs. Free edge of end panels attached to long leg of channel track with 1-5/8 in. long Type S self-drilling, self-tapping bugle head steel screws spaced not greater than 24 in. OC. For System F, screws spaced not greater than 12 in. OC.
NATIONAL GYPSUM CO — Types FSW, FSW-8, FSW-7

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System A - 1 Hr.

4. **Gypsum Board* —** 5/8 in. thick, 4 ft wide, applied horizontally or vertically and attached to studs with 1 in. long Type S steel screws spaced 12 in. OC along the edges and in the field of the boards. When Furring Channels (Item 2C) are used, gypsum board attached vertically to furring channels with 1 in. long Type S steel screws spaced 12 in. OC.
NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSL, FSLX, FSMR-C, FSW, FSW-3, FSW-5, FSW-C, FSW-6, and FSW-8

4A. **Gypsum Board* —** (As an alternate to Item 4) - 5/8 in. thick, 4 ft wide, applied vertically and attached to studs with 1 in. long Type S steel screws spaced 12 in. OC along the edges and in the field of the boards. When Furring Channels (Item 2C) are used, gypsum board attached vertically to furring channels with 1 in. long Type S steel screws spaced 12 in. OC.
NATIONAL GYPSUM CO — Types FSW-3, FSMR-C.

4B. **Gypsum Board* —** (As an alternate to Items 4 through 4A) — Installed as described in Item 4. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically and fastened to the studs with 1 in. long Type S steel screws spaced 8 in. OC.
NATIONAL GYPSUM CO — Type SBWB

4C. **Gypsum Board* —** (As an alternate to 5/8 in. Type FSW in Item 4) — 2 layers nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal joints on the same side need not be staggered. Inner layer attached with fasteners, as described in item 4, spaced 24 in. OC. Outer layer attached per Item 4.
NATIONAL GYPSUM CO — Type FSW

System B - 2 Hr.

4. **Gypsum Board* —** 1/2 in. or 5/8 in. thick, 4 ft wide wallboard applied vertically in two layers. Inner or base layer attached to studs with 1 in. long Type S self-drilling, self-tapping bugle head steel screws spaced 24 in. OC along the edges and in the field of the boards. Outer or face layer attached to studs and channel track with 1-5/8 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. along the edges and in the field of the boards, staggered from screws in inner layer. When furring channels (Item 2C) are used, inner or base layer attached to furring channels with 1 in. long Type S self-drilling, self-tapping bugle head steel screws. Outer or face layer attached to furring channels with 1-5/8 in. long Type S self-drilling, self-tapping bugle head steel screws spaced 12 in. OC and staggered 12 in. from base layer screws. Joints between inner and outer layers staggered. Outer layer joints covered with paper tape and joint compound. Exposed screw heads covered with joint compound.
NATIONAL GYPSUM CO — 1/2 in. thick Types eXP-C, FSK-C, FSMR-C, 5/8 in. thick Types eXP-C, FSMR-C, FSK, FSK-C, FSL, FSW-C, FSW, FSW-3, FSW-5, FSW-6, and FSW-8

4A. **Gypsum Board* —** (As an alternate to 5/8 in. Type FSW in Item 4) — Nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Two layers of 5/16 in. for every single layer of 5/8 in. gypsum board described in Item 4. Horizontal joints on the same side need not be staggered. Inner layer of panels attached to studs, as described in Item 4, spaced 24 in. OC. Outer layer of each double 5/16 in. layer attached per Item 4.
NATIONAL GYPSUM CO — Type FSW

4B. **Gypsum Board* —** (As an alternate to Items 4 and 4A) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically only and secured as described in Item 4.
NATIONAL GYPSUM CO — Type SBWB

4C. **Gypsum Board* —** (As an alternate to Items 4 through 4B) - 1/2 or 5/8 in. thick, 4 ft wide, applied in two layers. Base layer attached horizontally to studs and side "J" runners with 1 in. long Type S self-tapping steel screws starting at 2 in. from the floor and ceiling runners and spaced a maximum 24 in. OC along the vertical edges and in the field of the boards. Face layer installed vertically to studs and side "J" runners and attached with 1-5/8 in. long Type S self-tapping steel screws, starting at 3 in. from the floor and ceiling runners and spaced a maximum 12 in. OC along the vertical edges and in the field of the boards. Face layer joints covered with paper tape and two coats of joint compound. Exposed screw heads covered with two coats of joint compound.
NATIONAL GYPSUM CO — 1/2 in. thick Types eXP-C, FSW-C, FSMR-C, 5/8 in. thick Types eXP-C, FSK, FSW, FSL, FSMR-C, FSW-3, FSW-8, FSW-C, FSW-G.

4D. **Gypsum Board* —** (As an alternate to Items 4 through 4C) - For use with 1 in. Type FSW-7 gypsum board (Item 3) only. 5/8 in. thick, 4 ft wide, applied in two layers. Base layer attached vertically to studs and side "J" runners with 1 in. long Type S self-tapping steel screws spaced 16 in. OC. Face layer installed vertically to studs and side "J" runners and attached with 1-5/8 in. long Type S self-tapping steel screws spaced 12 in. OC. Face layer vertical joints staggered minimum one stud cavity from base layer vertical joints. Face layer joints covered with paper tape and two coats of joint compound. Exposed screw heads covered with two coats of joint compound.
NATIONAL GYPSUM CO — Type FSLX

System C - 2 Hr.

4. **Gypsum Board* —** 1/2 in. or 5/8 in. thick, 4 ft wide applied either horizontally or vertically and attached to studs and runners with 1 in. long Type S steel screws spaced 12 in. OC. When Furring Channels (Item 2C) are used, gypsum board attached vertically to furring channels with 1 in. long Type S steel screws spaced 12 in. OC. Outer layer joints covered with paper tape and joint compound. Exposed screw heads covered with joint compound.
NATIONAL GYPSUM CO — 1/2 in. thick Types eXP-C, FSK-C, FSW-C, FSMR-C, 5/8 in. thick Types eXP-C, FSMR-C, FSK, FSK-C, FSL, FSW-C, FSW, FSW-3, FSW-5, FSW-6, and FSW-8

4A. **Gypsum Board* —** (As an alternate to Item 4) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically only and secured as described in Item 4.
NATIONAL GYPSUM CO — Type SBWB

System D - 2 Hr.

3A. **Gypsum Board* —** (As an alternate to item 3) - 1 in. thick gypsum wallboard liner panels, supplied in nom 24 in. widths. Panels cut 1 in. less in length than floor to ceiling height. Vertical edges inserted in "T"-shaped section of "C-T" studs or "H"-shaped section of "C-H" studs (minimum 4 in. wide). Free edges of end panels attached to long leg of "J"-runners with 1-5/8 in. long Type S self-drilling, self-tapping bugle head steel screws spaced not greater than 12 in. OC.
NATIONAL GYPSUM CO — Type FSW-7, FSW-9

4. **Gypsum Board* —** 3/4 in. thick, 4 ft wide, applied vertically and secured with 1-1/4 in. long Type S self-drilling, self-tapping steel screws spaced 16 in. OC along floor and ceiling runners and 12 in. OC along studs and in the field.
NATIONAL GYPSUM CO — Type UltraShield

System E - 3 Hr.

4. **Gypsum Board* —** 5/8 in. thick, 4 ft wide wallboard applied vertically in three layers. Vertical joints centered over steel studs (Item 2, 2A, or 2B) and staggered min 24 in. First layer secured to studs with 1 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 24 in. OC at the perimeter and in the field. Second layer secured to studs with 1-5/8 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC at the perimeter and in the field. Joints in second layer shall be secured to first layer of gypsum board with 1-1/2 in. long Type G screws spaced 12 in. OC vertically, 2 in. from each side of the joint. Third layer secured to studs with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC at the perimeter and in the field. Third layer also secured to inner layers with 1-1/2 in. long Type G screws spaced 12 in. OC vertically, 2 in. from each side of the joint. Screws and horizontal butt joints staggered.
NATIONAL GYPSUM CO — Types eXP-C, FSW-C, FSK-C

System F - 4 Hr.

4. **Gypsum Board* —** 5/8 in. thick, 4 ft wide wallboard applied vertically in five layers. Vertical joints centered over steel studs (Item 2) and staggered min 24 in. First layer secured to studs with 1-1/8 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC at the perimeter and in the field. Second layer secured to studs with 1-5/8 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC at the perimeter and in the field. Horizontal butt joints in second layer shall be secured to first layer of gypsum board with 1-1/2 in. long Type G screws spaced 8 in. OC on both sides of the joint and in joint corners. Third layer secured to studs with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC at the perimeter and in the field. Third layer also secured to inner layers with 1-1/2 in. long Type G screws spaced 12 in. OC vertically and centered between the Type S screws in the studs. Horizontal butt joints in third layer shall be secured to inner layers of gypsum board with 1-1/2 in. long Type G screws spaced 8 in. OC on both sides of the joint and in joint corners. Fourth layer secured to the furring channels (Item 3) with 1-1/8 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Horizontal butt joints in fourth layer shall be centered over furring channels (Item 3) and secured to furring channels with 1-1/8 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 8 in. OC on both sides of the joint. Fifth layer secured to furring channels with 1-5/8 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Fifth layer also secured to fourth layer with 1-1/2 in. long Type G screws spaced 16 in. OC along the vertical joints and centered between the Type S screws in the furring channels. Horizontal butt joints in fifth layer shall be centered over furring channels (Item 3) and secured to furring channels with 1-5/8 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 8 in. OC on both sides of the joint. Screws and horizontal butt joints staggered.
NATIONAL GYPSUM CO — Type eXP-C, FSW-C, FSK-C

5. **Joint Tape and Compound —** (Not Shown) — Joints on outer layer of gypsum board (Item 4) covered with paper tape and joint compound. Paper tape and joint compound may be omitted when gypsum panels are supplied with square edges. Exposed screw heads covered with joint compound.

6. **Batts and Blankets* —** (Optional for all except System D) — When optional, mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt bearing the UL Classification Marking as to Fire Resistance, See Batts and blankets (BZJZ) Category For Names of Classified Companies. Required for System D - Nom 3 in. thick mineral wool batts, having a min. density of 2.5 lbs/ft^3, friction fitted between the studs and floor and ceiling runners. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

6A. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 6) — (100% Borate Formulation) — Not for use with System D. Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft^3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft^3, in accordance with the application instructions supplied with the product.
Applegate Greenfiber Acquisition LLC — Insulmax and SANCTUARY for use with wet or dry application.

6B. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 6) and Item 6A — Not for use with System D. Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.
NU-WOOL CO INC — Cellulose Insulation

6C. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 6) — Not for use with System D. Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft^3.
INTERNATIONAL CELLULOSE CORP — Cellular-fil,

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

UL DESIGN NO. CETW.R13527

CETW.R13527
Metal Roof Deck Panels

BERRIDGE MFG CO
1720 MAURY ST
HOUSTON, TX 77026 USA

R13527

1. **Mechanically Attached Metal Roof Panels —** 12-3/4 in. wide, Type TP standing seam system or 17-3/4 in. wide Type HSTP standing seam system (24 msg min. gauge coated steel) to be secured to the panel clips by engaging manufacturer's snap-on seam with vinyl insert. The panel clips are to be attached to the corrugated metal substratum with one No. 10 pancake head tek screw. The corrugated metal substratum is placed over the specified roof insulation and fastened through the roof insulation to the steel deck with min. No. 10 tek screw.

2. **Mechanically Attached Metal Roof Panels —** 16 in. wide, Type DV batten seam system (24 msg min. gauge coated steel) to be secured to hat section purlins with one No. 10 hex-head tek screw. The steel hat sections are placed over the specified roof insulation and fastened through the roof insulation to the steel roof deck with min. No. 14 self drilling, self-tapping screw. The size and spacing of these screws shall be determined by structural load requirements. In addition, any compressible UL Classified glass fiber insulation with or without a vapor-retarder facing may be used between the specified roof insulation and metal roof.

3. **Mechanically Attached Metal Roof Panels 16" wide,** Type ZL standing seam panel system (24 MSG minimum gage coated steel) to be placed over specified insulations and/or roof covering for the respective design. The roof panels are secured during installation to the continuous Zee Rib bearing member by a mechanical seaming device. A No. 12-14 self-drilling self-tapping fastener at various lengths shall restrain the Zee Rib and is to penetrate the assembly, through the decking, and into the structural member or attached into the decking only. One fastener is required at each structural member. One layer minimum of No. 30 saturated asphalt roofing felt is required between panel and roof covering.

4. **Mechanically Attached Metal Roof Panels —** 16-3/4 in. wide, Type CL standing seam panel system (24 MSG minimum gauge coated steel) to be placed over specified insulations and/or roof covering for the respective design. The snap lock roof panels are secured by hand pressure during installation to the continuous Cee rib bearing member. A No. 12-14 self-drilling, self-tapping fastener at various lengths shall restrain the Cee rib and is to penetrate the assembly, through the decking and into the structural member or attached into the decking only. One fastener is required at each structural member. One layer minimum of No. 30 saturated asphalt roofing is required between panel and roof covering.

Metal Roof Panels, Types CL, DV, HSTP, TP, ZL.

For use in Design Nos. P224, P225, P227, P230, P237, P250, P259, P508, P510, P512, P514, P518, P701, P711, P713, P717, P719, P720, P722-P723, P726, P736, P731, P732, P734, P801, P815, P819, P824.

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
VERO BEACH, FLORIDA 32963

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834 N. Orange Avenue
Winter Park, FL 32789
voice 407-872-3322
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MARK	DESCRIPTION	DATE

COMM. NO.: 2024117
ISSUE DATE: 12/23/2024
DRAWN BY: JL

UL ASSEMBLIES

G024
BID/ PERMIT DOCUMENTS

UL DESIGN NO. HW-D-0020

XHBN - Joint Systems

XHBN7 - Joint Systems Certified for Canada

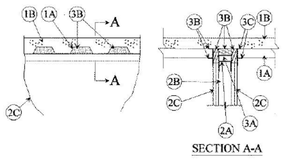
See General Information for Joint Systems

See General Information for Joint Systems Certified for Canada

System No. HW-D-0020

June 21, 2023

ANSI/UL2079	CAN/ULC S115
Assembly Ratings — 1 and 2 Hr (See Items 2 and 3B)	F Ratings — 1 and 2 Hr (See Items 2 and 3B)
Nominal Joint Width - 1 In.	FT Ratings — 1 and 2 Hr (See Items 2 and 3B)
Class II Movement Capabilities — 25% Compression or Extension	FH Ratings— 1 and 2 Hr (See Items 2 and 3B)
L Rating At Ambient — Less Than 1 CFM/sq ft (See Item 3C)	FTH Ratings — 1 and 2 Hr (See Items 2 and 3B)
L Rating At 400 F — Less Than 1 CFM/sq ft (See Item 3C)	Nominal Joint Width - 25 mm
	Class II Movement Capabilities — 25% Compression or Extension
	L Rating At Ambient — Less Than 1.55 L/s/lin m (See Item 3C)
	L Rating At 400 F — Less Than 1.55 L/s/lin m (See Item 3C)



SECTION A-A

1. **Floor Assembly —** The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D700 or D900 Series Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Steel Floor And Form Units* —** Max 3 in. (76 mm) deep galv steel fluted floor deck.

A1. **Spray Applied Fire Resistive Material* —** (Optional, Not Shown) — Prior to the installation of the Deflective Channel, Forming Material and Fill, Void or Cavity Material (Items 3A, 3B, 3C), the steel floor units may be sprayed with a min 5/16 in. (8 mm) thickness to max 11/16 in. (18 mm) thickness of fire resistive material

GCP APPLIED TECHNOLOGIES INC — Type MK-6/HY

B. **Concrete —** Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.

1A. **Roof Assembly —** (Not Shown) — As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling

Design in the UL Fire Resistance Directory. **The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly.** The roof assembly shall include the following construction features:

A. **Steel Roof Deck —** Max 3 in. (76 mm) deep galv steel fluted roof deck.

B. **Roof Insulation —** Max 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the floor units.

2. **Wall Assembly —** The 1 or 2 hr fire rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Steel Floor And Ceiling Runners —** Floor and ceiling runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs (Item 2B). When optional deflection channel (Item 3A) is used, ceiling runner to be provided with 3 in. (76 mm) flanges. Ceiling runner installed within the deflection channel with 1 in. (25 mm) gap maintained between the top of ceiling runner and top of deflection channel. When deflection channel is not used, flange height of ceiling runner shall be min 3/4 in. (19 mm) greater than nom joint width. Ceiling runner is installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors or by welds spaced max 24 in. (610 mm) OC. When optional spray-applied fire resistive material is used on the steel deck and when deflection channel is not used, ceiling runner secured through spray-applied material to each valley of steel deck with min 3/16 in. (5 mm) diam steel masonry anchors spaced max 12 in. (305 mm) OC.

A1. **Light Gauge Framing* — Slotted Ceiling Runner —** As an alternate to the ceiling runner in Item 2A, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Slotted ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors spaced max 24 in. (610 mm) OC. When slotted ceiling runner is used, deflection channel (Item 3A) shall not be used. When optional spray-applied fire resistive material is used on the steel deck, slotted ceiling runner secured through spray-applied material to each valley of steel deck with min 3/16 in. (5 mm) diam steel masonry anchors spaced max 12 in. (305 mm) OC.

CEMCO, LLC — CST

CLARKDIETRICH BUILDING SYSTEMS — Type SLT, SLT-H

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — SDT250, SDT300

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Type SLT

METAL-LITE INC — The System

OLMAR SUPPLY INC — STT250, STT300

R & P SUPPLY — SCT250, SCT300

RAM SALES L L C — RAM Slotted Track

SCAFCO STEEL STUD MANUFACTURING CO

STEELER INC — Steeler Slotted Ceiling Runner

TELLING INDUSTRIES L L C — True-Action Deflection Track

A2. **Light Gauge Framing* — Floor and Ceiling Runners —** As an alternate to the ceiling and floor runners in Item 2A, 2A1 and 2A2, floor and ceiling runners to consist of galv steel channel sized to accommodate the **Light Gauge Framing* Slotted Stud** (Item 2B1)

or **Light Gauge Framing* Slider C-Clip System** (Item 2B2). Floor and ceiling runners to be provided with min 1-1/4 in. and 3 in. (32 and 76 mm) flanges, respectively. Ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors spaced max 12 in. (305 mm) OC. When ceiling runner is used, deflection channel (Item 3A) shall not be used. When optional spray-applied fire resistive material is used on the steel deck, ceiling runner is secured through spray-applied material to each valley of steel deck with min 3/16 in. (5 mm) diam steel masonry anchors spaced max 12 in. (305 mm) OC.

STEELER INC — Floor and Ceiling Runners

A3. **Light Gauge Framing* — Notched Ceiling Runner —** As an alternate to the ceiling runners in Items 2A through 2A3, notched ceiling runners to consist of C-shaped galv steel channel with notched return flanges sized to accommodate steel studs (Item 2B). Notched ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors spaced max 24 in. (610 mm) OC. When notched ceiling runner is used, deflection channel (Item 3A) shall not be used. When optional spray-applied fire resistive material is used on the steel deck, notched ceiling runner secured through spray-applied material to each valley of steel deck with min 3/16 in. (5 mm) diam steel masonry anchors spaced max 12 in. (305 mm) OC.

OLMAR SUPPLY INC — Type SCR

A4. **Light Gauge Framing* — Floor and Ceiling Runners —** As an alternate to the ceiling and floor runners in Item 2A, through 2A4, floor and ceiling runners to consist of galv steel channel sized to accommodate the **Light Gauge Framing* Steel Studs** (Item 2B3). Floor and ceiling runners to be provided with min 1-3/4 in. flanges. Ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors spaced max 12 in. (305 mm) OC. When ceiling runner is used, deflection channel (Item 3A) shall not be used. When optional spray-applied fire resistive material is used on the steel deck, ceiling runner is secured through spray-applied material to each valley of steel deck with min 3/16 in. (5 mm) diam steel masonry anchors spaced max 12 in. (305 mm) OC.

CEMCO, LLC — ViperTrack™

B. **Studs —** Steel studs to be min 3-1/2 in. (89 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in and resting on floor runner and with top nesting in ceiling runner without attachment. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13

mm) long wafer head steel screws at midheight of slot on each side of wall. Stud spacing not to exceed 24 in (610 mm) OC.

B1. **Light Gauge Framing* — Slotted Studs —** Slotted steel stud to be used in conjunction with **Light Gauge Framing* — Floor and Ceiling Runners** (Item 2A3). Slotted studs to be min 3-1/2 in. (89 mm) wide. Slotted steel studs cut 1 in. (25 mm) less in length than assembly height with bottom nesting in and secured to both ceiling and floor runners. Ceiling runner secured to preformed slot within steel stud by means of No. 10 by 3/4 in. (19 mm) long low profile head steel screw. Floor runner attached to bottom of steel stud by means of No. 8 by 1/2 in. (13 mm) long pan head steel screw. Slotted steel stud spacing not to exceed 24 in. (610 mm) OC.

STEELER INC — Slotted Stud

B2. **Light Gauge Framing* — Slider C-Clip System —** As an alternate to the **Light Gauge Framing* — Slotted Steel Studs** (Item 2B1), a Slider C-Clip System consisting of a C shaped steel clip with a slotted opening and a steel stud to be used in conjunction with **Light Gauge Framing* — Floor and Ceiling Runners** (Item 2A3). Steel clips and studs to be min 3-1/2 in. (89 mm) wide. Steel clip inserted into inside flange of steel stud without attachment. Total length of steel stud cut 1 in. (25 mm) less than assembly height with bottom of steel stud nesting in and secured to floor runner. Floor runner attached to bottom of steel stud by means of No. 8 by 1/2 in. (13 mm) long pan head steel screw. Ceiling runner secured to steel C-Clip by means of No. 10 by 3/4 in. (19 mm) long pan head steel screw located 3/8 in. (10 mm) below top of ceiling runner. Top row of gypsum board screws shall be centered within the preformed slot of the C-Clip. Steel stud and steel clips spacing not to exceed 24 in. (610 mm) OC.

STEELER INC — Slider C Clip System

B3. **Light Gauge Framing* — Steel Studs —** Steel Studs to be used in conjunction with **Light Gauge Framing* — Floor and Ceiling Runners** (Item 2A5). Steel studs to be min 3-5/8 in. (92 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in and resting on floor runner and with top nesting in ceiling runner without attachment. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. Stud spacing not to exceed 24 in (610 mm) OC.

CEMCO, LLC — ViperStud™

C. **Gypsum Board* —** Gypsum board sheets installed to a min total thickness of 5/8 in. and 1-1/4 in. (16 and 32 mm) on each side of wall for 1 and 2 hr rated assemblies, respectively. Wall to be constructed as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that a nom 1 in. (25 mm) gap shall be maintained between the top of the gypsum board and the bottom of the steel floor or roof deck and the top row of screws shall be installed into the studs 3-1/2 in. (89 mm) below the lower surface the floor or roof deck. **The hourly fire rating of the joint system is equal to the hourly fire rating of the wall.**

The hourly Assembly, F, FH FT and FTH Ratings of the joint system are equal to the hourly fire rating of the wall.

3. **Joint System — Max separation between bottom of floor or roof and top of wall is 1 in. (25 mm). The joint system is designed to accommodate a max 25 percent compression or extension from its installed width.** The joint system consists of an optional deflection channel, forming material and a fill material, as follows:

A. **Deflection Channel —** (Optional) — A nom 3-5/8 in. (92 mm) wide by 3 in. (76 mm) deep min 24 ga steel U-shaped channel. Deflection channel installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors or by welds spaced max 24 in. (610 mm) OC. When optional spray-applied fire resistive material is used on the steel deck, deflection channel secured through spray-applied material to each valley of steel deck with min 1-1/2 in. (38 mm) long by min 3/16 in. (5 mm) diam steel masonry anchors spaced max 12 in. (305 mm) OC. The ceiling runner (Item 2A) is installed within the deflection channel to maintain a 1 in. (25 mm) gap between the top of the ceiling runner and the top of the deflection channel. The ceiling runner is not fastened to the deflection channel.

B. **Forming Material* —** Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m^3) density mineral wool batt insulation cut to the shape of the fluted deck, approx 20 percent larger than the area of the flutes and compressed into flutes of the steel floor or roof deck between the top of the deflection channel or ceiling runner and the steel deck. Additional pieces of min 4 pcf (64 kg/m^3) mineral wool batt insulation are to be cut to the contour of the flutes with an additional 1-3/8 in. (35 mm) high section at the bottom of the shapes to fill the 1 in. (25 mm) gap between the top of the gypsum board and bottom of the steel floor or roof deck. The additional pieces of mineral wool are compressed and firmly packed into the flutes and the gap between the top of the gypsum board and bottom of the steel floor units on both sides of the wall and shall be a min 3/4 in. (19 mm) thick for 1 hr Rated Design and a min 1-1/2 in. (38 mm) thick for 2 hr Rated Design.

INDUSTRIAL INSULATION GROUP L L C — MinWool-1200 Safing

ROCK WOOL MANUFACTURING CO — Delta Board or Delta-8

ROCKWOOL MALAYSIA SDN BHD — Type Safe

ROCKWOOL — Type Safe

THERMAFIBER/OWENS CORNING — Type SAF

B1. **Forming Material* —** (Optional, Not Shown) — Preformed mineral wool plugs, formed to the shape of the fluted floor units, friction fit to completely fill the flutes above the ceiling channel. The plugs shall project beyond each side of the ceiling runner and shall be recessed from both wall surfaces to accommodate the required thickness of fill material (Item 3C). Additional forming material, described in Item 3B, to be used in conjunction with the plugs to fill the gap between the top of gypsum board and bottom of steel deck.

THERMAFIBER/OWENS CORNING — TopStop mineral wool deck plugs Type SAF batts

C. **Fill, Void or Cavity Material* —** Min 1/16 in. (1.6 mm) dry (1/8 in. or 3.2 mm wet) thickness of fill material sprayed or brushed on each side of the wall in the flutes of the steel floor or roof deck units and between the top of the gypsum board and the bottom of the steel floor or roof deck units to completely cover mineral wool and overlap a min of 1/2 in. (13 mm) into gypsum board and steel floor deck on both sides of wall. When the steel floor deck is coated with spray-applied material (Item A1), the fill material shall overlap min 2 in. (51 mm) onto the spray-applied material.

3M COMPANY — FireDam™ Spray 200

C1. **Fill, Void or Cavity Material* — Tape —** As an alternate to Item C, Tape cut to size and press applied within fluted areas of joint to completely cover mineral wool lapping min 1 in. (25 mm) onto the contour of the steel floor units, or min 2 in. (51 mm) onto the spray applied fire resistive material (Item 1A1) on the steel floor units, and extending to lap min 1 in. (25 mm) onto the gypsum board. Additional pieces of Tape are applied along the joint to completely cover the remaining mineral wool between bottom of steel deck and top edge of gypsum board along length of joint, lapping min 1 in. (25 mm) onto the steel floor units, or min 2 in. (51 mm) onto the spray applied fire resistive material (Item 1A1) on the steel

floor units, and min 1 in. (25 mm) onto gypsum board. Adjoining lengths of Tape shall overlap min 1/2 in. (13 mm). Tape shall be applied at both sides of wall.

3M COMPANY — 3M Fire and Water Barrier Tape

L Ratings apply only when FireDam™ Spray 200 is used.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2023-06-21

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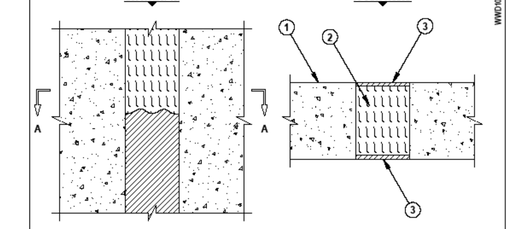
UL/cUL SYSTEM NO. WW-D-1011

FIRE-RATED JOINT THROUGH CONCRETE WALL ASSEMBLY

ASSEMBLY RATING = 3-HR.

CLASS II MOVEMENT CAPABILITIES - 14% COMPRESSION OR EXTENSION



1. **CONCRETE WALL ASSEMBLY (3-HR. FIRE-RATING) :**
   - **A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MINIMUM 4-3/4" THICK).**
   - **B. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL.**
2. **MINIMUM 4-1/4" THICKNESS MINERAL WOOL SAFING (MIN. 4 PCF DENSITY) COMPRESSED MINIMUM 42%.**
3. **MINIMUM 1/4" DEPTH HILTI CP 601S ELASTOMERIC FIRESTOP SEALANT OR HILTI CFS-S SIL GG FIRESTOP SILICONE SEALANT.**

NOTE : MAXIMUM WIDTH OF JOINT = 3-1/2".

Hilti Firestop Systems

HILTI, Inc.
Plano, Texas USA (800) 879-8000

Sheet	1 of 1
Scale	1/4" = 1"
Date	May 25, 2021
Drawing No.	WWD 1011g

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VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL SCHOOL WEST - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
VERO BEACH, FLORIDA 32968

SCHENKEL SHULTZ

834 N. Orange Avenue
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5	Addendum -04 - IRC BUILDING REVIEW COMMENTS	6/6/2025

COMM. NO.: 2024117
ISSUE DATE: 12/23/2024
DRAWN BY: Author

UL ASSEMBLIES

5

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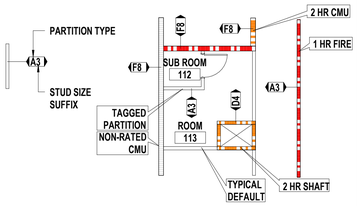
Autodesk Docs://2024117 Vero Classical School/2024117-VERO CLASSICAL SCHOOL-A-R2025.rvt

PARTITION TAG EXAMPLE

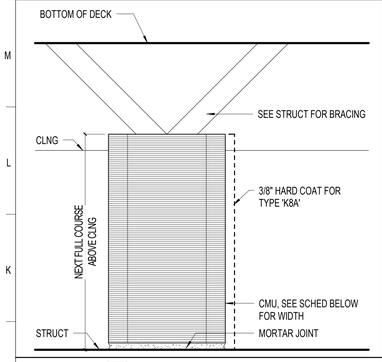
PARTITION IDENTIFICATION EXAMPLE



- **GRAPHIC PARTITIONS ARE CALLED OUT FORCLARIFICATION OF EXAMPLE ONLY AND MAY NOT BE CALLED OUT ON PLANS.**
- **RATINGS AS SHOWN WILL BE INDICATED ONLIFE SAFETY PLANS ONLY.**

PARTITION ID DIAGRAM

NOT TO SCALE



FLOOR PLAN DESIGNATION — PARTITION TYPE (K#) — SIZE SUFFIX

DESIGN CRITERIA REFER TO LIFE SAFETY PLANS FOR PARTITION RATINGS

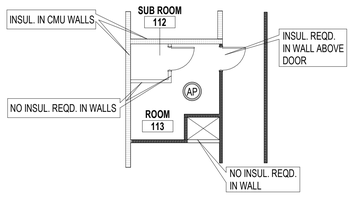
RATING	UL DESIGN #	GRAPHIC	STC	STC W/ 3" SAB
NON-RATED	N/A		N/A	N/A

CONSTRUCTION

SUFFIX	CMU WIDTH	OVERALL WIDTH	REMARKS
4	3 5/8"	3 5/8" *	* SOLID UNITS ONLY AT RATED WALL ** SEE EQUIV. THICKNESS TABLE AT RATED WALL
6	5 5/8"	5 5/8" **	
8	7 5/8"	7 5/8"	
8A	7 5/8"	8"	

PARTITION TYPE K

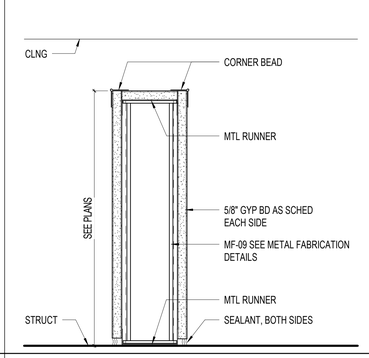
ACOUSTIC PARTITION EXAMPLE



NOTE: REFER TO SOUND ATTENUATION SCHEDULE FOR TYPE OF INSULATION REQUIRED.
SOUND ATTENUATION BATTS SHOWN FOR CLARIFICATION OF EXAMPLE ONLY AND WILL NOT BE GRAPHICALLY INDICATED ON PLANS

ACOUSTIC PARTITION DIAGRAM

NOT TO SCALE



FLOOR PLAN DESIGNATION — PARTITION TYPE (H#) 48" — HEIGHT OF PARTITION

DESIGN CRITERIA REFER TO LIFE SAFETY PLANS FOR PARTITION RATINGS

RATING	UL DESIGN #	GRAPHIC	STC	STC W/ 3" SAB
NON-RATED	N/A		N/A	N/A

CONSTRUCTION

SUFFIX	STUD SIZE	OVERALL WIDTH	REMARKS
3	3 5/8"	4 7/8"	
4	4"	5 1/4"	
6	6"	7 1/4"	
8	8"	9 1/4"	

PARTITION TYPE H

ABUSE RESISTANT GYPSUM BOARD EXAMPLE

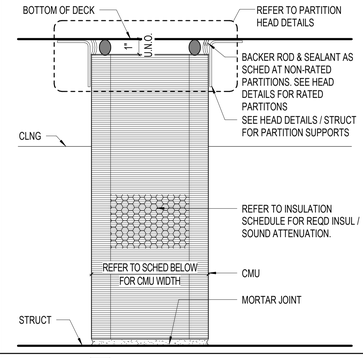
PROVIDE ABUSE RESISTANT GYP. BD. TO HT. INDICATED IN GYP. BD. SCHED. ON TAGGED ROOM SIDE OF ALL GYP. BD. PARTITIONS.

IMPACT RESISTANT SIMILAR BUT WITH IR TAG. IR

NOTE: DASHED LINE AT ABUSE RESISTANT GYP. BD. SHOWN FOR CLARIFICATION OF EXAMPLE ONLY AND WILL NOT BE SHOWN ON PLANS

ABUSE RESISTANT GYP. BD. DIAGRAM

NOT TO SCALE



FLOOR PLAN DESIGNATION — PARTITION TYPE (F#) — SIZE SUFFIX

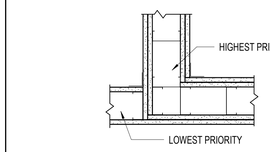
DESIGN CRITERIA REFER TO LIFE SAFETY PLANS FOR PARTITION RATINGS

RATING	UL DESIGN #	GRAPHIC	STC	STC W SOUND
NON-RATED	N/A		45	53
SMOKE RES.	N/A		45	53
1 HR.	U905		45	53

CONSTRUCTION

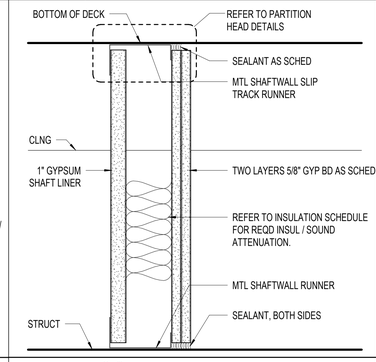
SUFFIX	CMU WIDTH	OVERALL WIDTH	REMARKS
4	3 5/8"	3 5/8" *	* SOLID UNITS ONLY AT RATED WALL ** SEE EQUIV. THICKNESS TABLE AT RATED WALL
6	5 5/8"	5 5/8" **	
8	7 5/8"	7 5/8"	
10	9 5/8"	9 5/8"	
12	11 5/8"	11 5/8"	

PARTITION TYPE F



PARTITION PRIORITIES

TWO HOUR FIRE AND SMOKE WALL	PRIORITY 1 (HIGHEST)
TWO HOUR FIRE WALL TWO HOUR SHAFT WALL	PRIORITY 2
ONE HOUR FIRE AND SMOKE WALL	PRIORITY 3
ONE HOUR FIRE WALL ONE HOUR SHAFT WALL	PRIORITY 4
SMOKE TIGHT WALL	PRIORITY 5
NON-RATED WALL	PRIORITY 6 (LOWEST)



FLOOR PLAN DESIGNATION — PARTITION TYPE (D#) — SIZE SUFFIX — 2-HOUR SHAFTWALL

DESIGN CRITERIA REFER TO LIFE SAFETY PLANS FOR PARTITION RATINGS

RATING	UL DESIGN #	GRAPHIC	STC	STC W/ 3" SAB
2 HR.	U415 - SYSTEM C U469		43	50

CONSTRUCTION

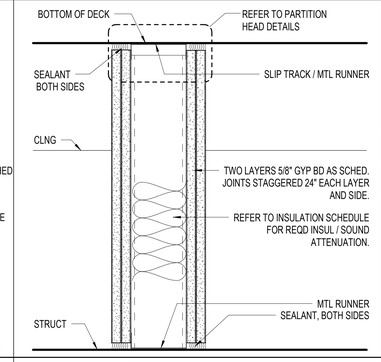
SUFFIX	STUD SIZE	OVERALL WIDTH	REMARKS
2	2 1/2"	3 3/4"	AT WALLS TO RECEIVE TILE USE U415 - SYSTEM D, ADD THICKNESS OF CEMENT BD
4	4"	5 1/4"	
6	6"	7 1/4"	

PARTITION TYPE D

TYPE "X" 5/8" GYPSUM BOARD	ALL LOCATIONS UNLESS NOTED BELOW OR DETAILED OTHERWISE
5/8" ABUSE RESISTANT GYPSUM BOARD	REFER TO FLOORPLANS FOR AR TAG. PROVIDE ABUSE RESISTANT GYP. BD. ON ALL WALLS ENCLOSING TAGGED ROOM TO 4'-0" A.F.F. UNLESS NOTED OTHERWISE. SEE ABUSE RESISTANT DIAGRAM.
5/8" IMPACT RESISTANT GYPSUM BOARD	REFER TO FLOORPLANS FOR IR TAG. PROVIDE IMPACT RESISTANT GYP. BD. ON ALL WALLS ENCLOSING TAGGED ROOM TO 4'-0" A.F.F. UNLESS NOTED OTHERWISE. SEE ABUSE RESISTANT DIAGRAM.
5/8" MOISTURE AND MOLD RESISTANT GYPSUM BOARD	"WET WALLS" NOT RECEIVING TILE WITH PLUMBING FIXTURES SUCH AS DRINKING FOUNTAINS, WATER CLOSETS, LAVATORIES, URINALS AND SIMILAR.
1/2" TILE BACKER BOARD	ALL WALLS RECIEVING TILE, U.N.O.
1/2" CEMENTITIOUS BACKER BOARD	WALLS EXPOSED DIRECTLY TO RUNNING WATER AND SCHEDULED TO RECEIVE TILE - BATHTUBS, SHOWERS, SAUNAS, WATER THERAPY, ETC. NOTE: CEMENT BD. SHALL BE APPLIED OVER PARTITIONS WATER RESISTANT OR GLASS MAT GYPSUM BOARD AT RATED WALLS.

GYPSUM BOARD SCHEDULE

NOT TO SCALE



FLOOR PLAN DESIGNATION — PARTITION TYPE (B#) — SIZE SUFFIX

DESIGN CRITERIA REFER TO LIFE SAFETY PLANS FOR PARTITION RATINGS

RATING	UL DESIGN #	GRAPHIC	STC	STC W/ 3" SAB
2-HR	U412		50	55

CONSTRUCTION

SUFFIX	STUD SIZE	OVERALL WIDTH	REMARKS
1	1 5/8"	2 7/8"	
2	2 1/2"	3 3/4"	
3	3 5/8"	4 7/8"	
4	4"	5 1/4"	
6	6"	7 1/4"	
8	8"	9 1/4"	

PARTITION TYPE B

MISCELLANEOUS STUFFING INSULATION	WHERE DETAILED AND/OR NOTED, TO INFILL OPENINGS IN NON-RATED WALLS AROUND PIPES, STRUCTURAL COMPONENTS, CONDUITS AND SIMILAR. TO SEAL TOPS OF NON-RATED MASONRY WALLS TO DECK, AT EXPANSION JOINTS TO INSULATE.
UNFACED BATT INSULATION	WHERE DETAILED AND/OR NOTED, WITHIN STUD CAVITY OF ALL EXTERIOR WALLS WHERE INSULATION IS ENCAPSULATED UNLESS NOTED OR DETAILED OTHERWISE.
SEMI-RIGID FIBERGLASS INTERIOR INSULATION	WHERE DETAILED AND/OR NOTED, AT ALL EXTERIOR WALLS WHERE INSULATION IS NOT ENCAPSULATED UNLESS NOTED OR DETAILED OTHERWISE.
SOUND ATTENUATION BLANKETS (SAB)	WHERE DETAILED AND/OR NOTED, AT ALL NON-RATED PARTITIONS INDICATED TO BE ACOUSTICAL. REFER TO ACOUSTICAL PARTITION SCHEDULE AND PLANS FOR AP TAG.
MINERAL WOOL INSULATION	WHERE DETAILED AND/OR NOTED, AT ALL FIRE RATED PARTITIONS INDICATED TO BE ACOUSTICAL. REFER TO ACOUSTICAL PARTITION SCHEDULE AND PLANS FOR AP TAG.
SPRAY POLYURETHANE FOAM	WHERE DETAILED AND/OR NOTED, AT ALL **MASONRY** PARTITIONS INDICATED TO BE ACOUSTICAL. REFER TO ACOUSTICAL PARTITION SCHEDULE AND PLANS FOR AP TAG.

INSULATION SCHEDULE

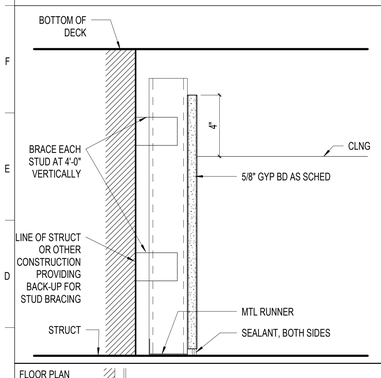
NOT TO SCALE

WALL RATING LEGEND

GRAPHIC PATTERN	WALL RATING
	SMOKE
1 H	1 - HOUR

GENERAL NOTES - PARTITIONS

1. PARTITIONS ARE DISTINGUISHED ON FLOOR PLANS BY GRAPHIC AND TWO-PART SYMBOL DESIGNATIONS. THE ALPHANUMERIC SYMBOL INDICATES THE PARTITION TYPE AND THE NUMERIC CHARACTER DESIGNATES THE STUD, CMU OR CONCRETE WIDTH. REFER TO THE PARTITION TYPE DIAGRAMS.
2. PARTITIONS REQUIRED TO BE SMOKE AND/OR FIRE RESISTANT ARE DISTINGUISHED GRAPHICALLY ON THE LIFE SAFETY PLANS. REFER TO THE FIRE & SMOKE RESISTANCE LEGEND.
3. FLR, CLNG AND STRUCT DELINEATED IN THE PARTION TYPE SECTIONS ARE DIAGRAMMATIC AND DO NOT REFLECT EXACT CONSTRUCTION CONDITIONS OR GEOMETRY.
4. GYPSUM BOARD TYPES INDICATED IN THE PARTITION TYPE SECTIONS IS TYPICAL UNLESS NOTED OTHERWISE IN THE GYPSUM BOAD SCHEDULE FOR THE PARTITION LOCATION (EXAMPLE: TYPE "A3" PARTITION AT A WET WALL WILL RECEIVE 5/8" MOISTURE AND MOLD RESISTANT GYP BD IN LIEU OF 5/8" GYP BD; TYPE "A3" PARTITION SCHEDULED TO RECEIVE TILE WILL HAVE ½" TILE BACKER IN LIEU OF 5/8" GYP BD).
5. REFER TO PARTITION HEAD DETAILS FOR CONSTRUCTION AT RATED PARTITIONS. WHERE A SPECIFIC DETAIL IS NOTE PROVIDED, COORDINATE WITH ARCHITECT.
6. ALL DIMENSIONS ARE FROM FACE OF GYPSUM BOARD TO FACE OF GYPSUM BOARD. REFER TO PARTITION TYPE MATRICES FOR PARTITION WIDTH DIMENSIONS UNLESS INDICATED TO BE SHOWN ON PLANS.
7. SEALANT: REFER TO THE SEALANT SCHEDULE FOR SEALANT TYPES AT ALL PARTITIONS. ALL PARTITIONS SHALL HAVE SCHEDULED SEALANT AT THE HEAD, SILL, THRU-PENETRATIONS, OPENINGS AND JUNCTURES WITH DISSIMILAR MATERIALS.
8. INSULATION: REFER TO INSUALTION SCHEDULE FOR INSULATION TYPE AT ALL PARTITIONS.
9. FOR PARTITONS DESIGNATED TO RECEIVE SOUND ATTENUATION BLANKETS (SAB), EXTEND SAB TO FULL HEIGHT OF PARTITION U.N.O. FLOOR TRACK TO BE SET IN A CONT BED OF SCHEDULED SEALANT.
10. IF NO SYMBOL DESIGNATION IS PROVIDED, STUD WALLS SHALL BE TYPE A3 AND MASONRY WALLS SHALL BE TYPE F8.
11. REFER TO SPECIFICATIONS MINIMUM STUD THICKNESS, MAXIMUM SPACING AND ALLOWABLE LIMITING HEIGHTS AND DEFLECTION CRITERIA FOR GYPSUM BOARD ASSEMBLIES.
12. FIRE RESISTANT AND SMOKE RESISTANT SMOKE BARRIER RATINGS ARE TO SURROUND ALL OPENINGS IN RATED PARTITIONS.
13. SMOKE RESISTANT, FIRE RESISTANT AND FIRE RESISTANT SMOKE BARRIER PARTITIONS SHALL EXTEND AND SEAL TO THE INSIDE FACE OF EXTERIOR SHEATHING, INCLUDING EXTENSIONS THROUGH SOFFITS.
14. EACH NEW FIRE WALL, FIRE FIRE PARTITION, SMOKE BARRIER, SMOKE PARTITION, OR ANY OTHER NEW WALL REQUIRED TO HAVE PROTECTED OPENINGS SHALL BE PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING ABOVE ANY DECORATIVE CEILING AND IN CONCEALED SPACES WITH THE WORDING, "FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS ". SUCH SIGNS OR STENCILING SHALL BE IN 4 INCH HIGH LETTERS, 1/2 INCH STROKE, AND NOT MORE THAN 15 FEET ON CENTER OR AS REQUIRED BY LOCAL CODE.
15. REFER TO STRUCTURAL DRAWINGS FOR REINFORCING INFORMATION.
16. REFER TO CASEWORK AND TOILET ACCESSORY SHEETS FOR MOUNTING INFORMATION AND BACKING REQUIREMENTS.
17. DO NOT UTILIZE BULLNOSE BLOCK AT CMU WALLS DESIGNATED TO RECEIVE CORNER GUARDS.
18. ALL PENETRATIONS THRU FIRE OR SMOKE RATED PARTITION SHALL BE SEALED TO MAINTAIN THE INTEGRITY OF THE PARTITION RATING. REFER TO SEALANT SCHEDULE.
19. ALL PENETRATIONS THRU SOUND RATED PARTITION SHALL BE SEALED TO MAINTAIN THE INTEGRITY OF THE PARTITION RATING. REFER TO SEALANT SCHEDULE.



FLOOR PLAN DESIGNATION — PARTITION TYPE (J#) — SIZE SUFFIX

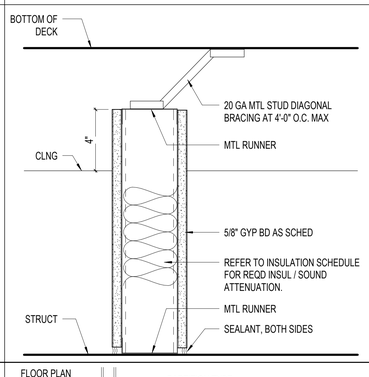
DESIGN CRITERIA REFER TO LIFE SAFETY PLANS FOR PARTITION RATINGS

RATING	UL DESIGN #	GRAPHIC	STC	STC W/ 3" SAB
NON-RATED	N/A		N/A	N/A

CONSTRUCTION

SUFFIX	STUD SIZE	OVERALL WIDTH	REMARKS
0	7/8" HAT CHANNEL	1 1/2"	
1	1 5/8"	3"	
2	2 1/2"	4"	
3	3 5/8"	5"	
4	4"	6"	

PARTITION TYPE J



FLOOR PLAN DESIGNATION — PARTITION TYPE (G#) — SIZE SUFFIX

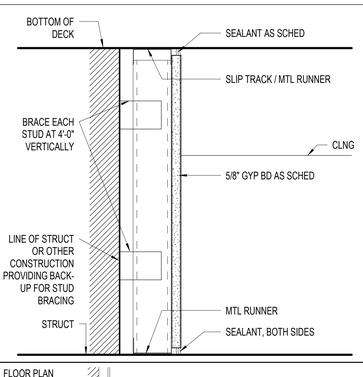
DESIGN CRITERIA REFER TO LIFE SAFETY PLANS FOR PARTITION RATINGS

RATING	UL DESIGN #	GRAPHIC	STC	STC W/ 3" SAB
NON-RATED	N/A		N/A	N/A

CONSTRUCTION

SUFFIX	STUD SIZE	OVERALL WIDTH	REMARKS
1	1 5/8"	2 7/8"	
2	2 1/2"	3 3/4"	
3	3 5/8"	4 7/8"	
4	4"	5 1/4"	
6	6"	7 1/4"	
8	8"	9 1/4"	

PARTITION TYPE G



FLOOR PLAN DESIGNATION — PARTITION TYPE (E#) — SIZE SUFFIX

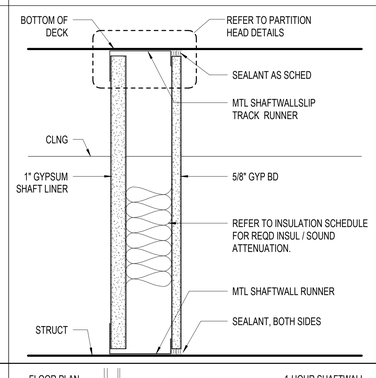
DESIGN CRITERIA REFER TO LIFE SAFETY PLANS FOR PARTITION RATINGS

RATING	UL DESIGN #	GRAPHIC	STC	STC W/ 3" SAB
NON-RATED	N/A		N/A	N/A

CONSTRUCTION

SUFFIX	STUD SIZE	OVERALL WIDTH	REMARKS
0	7/8" HAT CHANNEL	1 1/2"	
1	1 5/8"	3"	
2	2 1/2"	4"	
2A	2 1/2"	5"	
3	3 5/8"	5"	
4	4"	6"	

PARTITION TYPE E



FLOOR PLAN DESIGNATION — PARTITION TYPE (C#) — SIZE SUFFIX — 1-HOUR SHAFTWALL

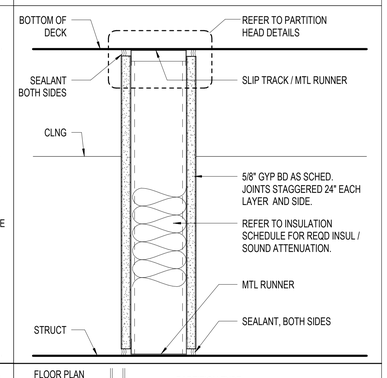
DESIGN CRITERIA REFER TO LIFE SAFETY PLANS FOR PARTITION RATINGS

RATING	UL DESIGN #	GRAPHIC	STC	STC W/ 3" SAB
1 HR.	U415 - SYSTEM A		40	49

CONSTRUCTION

SUFFIX	STUD SIZE	OVERALL WIDTH	REMARKS
2	2 1/2"	3 1/8"	AT WALLS TO RECEIVE TILE USE U415 - SYSTEM D, ADD THICKNESS OF CEMENT BD
4	4"	4 5/8"	
6	6"	6 5/8"	

PARTITION TYPE C



FLOOR PLAN DESIGNATION — PARTITION TYPE (A#) — SIZE SUFFIX

DESIGN CRITERIA REFER TO LIFE SAFETY PLANS FOR PARTITION RATINGS

RATING	UL DESIGN #	GRAPHIC	STC	STC W/ 3" SAB
NON-RATED	N/A		40	49
SMOKE RES.	N/A		40	49
1 HR.	U419		40	49

CONSTRUCTION

SUFFIX	STUD SIZE	OVERALL WIDTH	REMARKS
1	1 5/8"	2 7/8" *	* REFER TO UL FOR MIN. GYP BD THICKNESS AND REQ'D INSULATION.
2	2 1/2"	3 3/4" *	
3	3 5/8"	4 7/8"	
4	4"	5 1/4"	
6	6"	7 1/4"	
8	8"	9 1/4"	

PARTITION TYPE A

VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
VERO BEACH, FLORIDA 32963

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PARTITION TYPES & NOTES

G031

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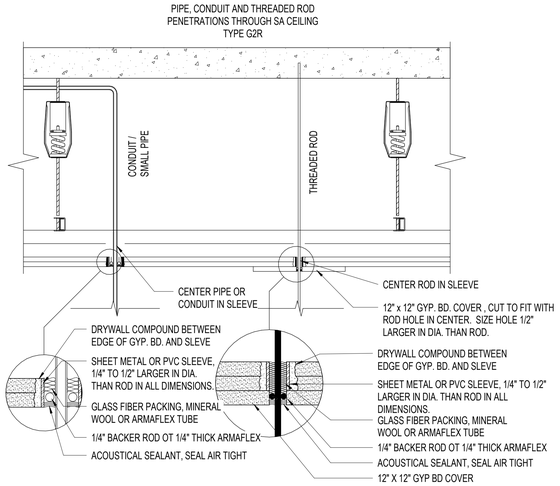
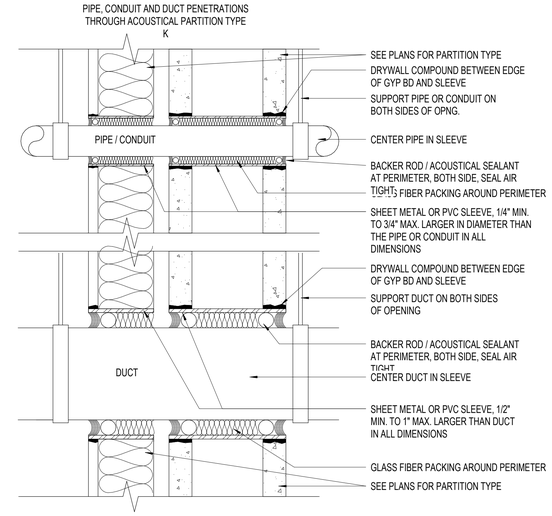


PIPE, CONDUIT AND THREADED ROD PENETRATIONS THROUGH SA CEILING TYPE G2R

L1 ACOUSTICAL PENETRATIONS AT SOUND ISOLATION CEILING

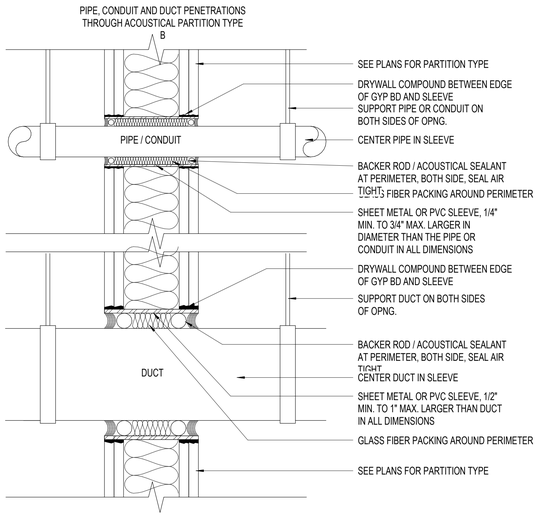
1 1/2" = 1'-0"



PIPE, CONDUIT AND DUCT PENETRATIONS THROUGH ACOUSTICAL PARTITION TYPE K

L6 ACOUSTICAL PENETRATIONS AT PARTITION TYPE K

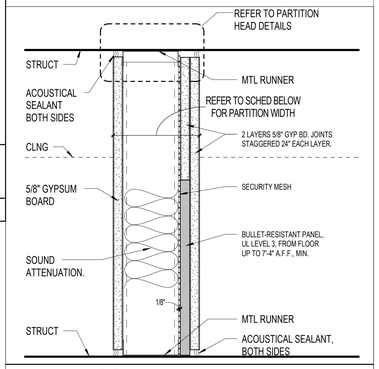
3" = 1'-0"



PIPE, CONDUIT AND DUCT PENETRATIONS THROUGH ACOUSTICAL PARTITION TYPE B

L11 ACOUSTICAL PENETRATIONS AT PARTITION TYPE B

3" = 1'-0"



FLOOR PLAN DESIGNATION — V#

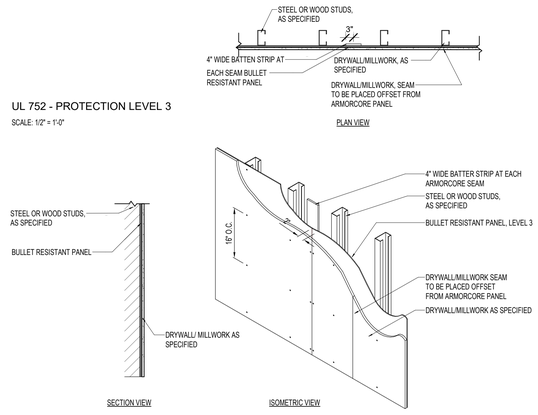
DESIGN CRITERIA — REFER TO LIFE SAFETY PLANS FOR PARTITION RATINGS

RATING	UL DESIGN #	GRAPHIC	STC	STC W/ 3" SAB
NON-RATED	N/A		40	49
SMOKE RES.	N/A		40	49

CONSTRUCTION

SUFFIX	STUD SIZE	OVERALL WIDTH	REMARKS
3	3 5/8"	5 5/8"	REFER TO UL FOR MIN. GYP BD THICKNESS AND REQ'D INSULATION.

PARTITION TYPE V (BALLISTICS RATED PARTITION UL LEVEL 3)



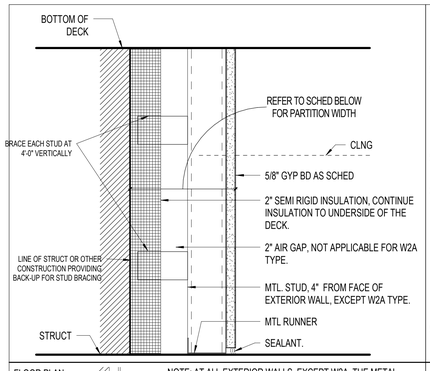
UL 752 - PROTECTION LEVEL 3

SCALE: 1/2" = 1'-0"

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWING.
3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.

E1 BULLET RESISTANT PANEL, PARTITION TYPE V, CONSTRUCTION

NOT TO SCALE



FLOOR PLAN DESIGNATION — W#

NOTE: AT ALL EXTERIOR WALLS, EXCEPT W2A, THE METAL STUD IS 4" FROM THE INTERIOR FACE OF THE STRUCTURAL WALL AS INDICTED ABOVE. UNLESS NOTED OTHERWISE, W2 IS THE TYPICAL INTERIOR PARTITION TYPE FOR ALL EXTERIOR WALLS.

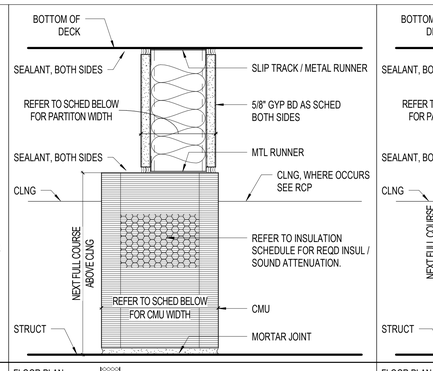
DESIGN CRITERIA — REFER TO LIFE SAFETY PLANS FOR PARTITION RATINGS

RATING	UL DESIGN #	GRAPHIC	STC	STC W/ 3" SAB
NON-RATED	N/A		N/A	N/A

CONSTRUCTION

SUFFIX	STUD SIZE	OVERALL WIDTH	REMARKS
2A	2 1/2"	5 1/8"	NOTE: WALLS WITH PLASTER FINISH ARE IDENTIFIED WITH "W#p" THICKNESS IS NOT SHOWN FOR CLARITY IN FLOOR PLAN
2	2 1/2"	7 1/8"	
3	3 5/8"	8 1/4"	
6	6"	10 5/8"	

PARTITION TYPE W



FLOOR PLAN DESIGNATION — X# — PARTITION TYPE — SIZE SUFFIX

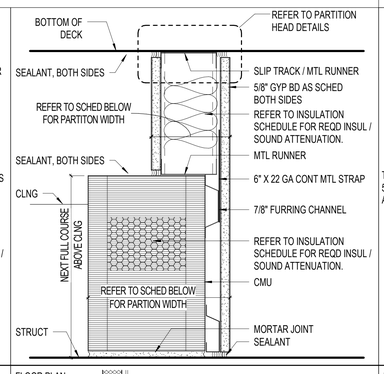
DESIGN CRITERIA — REFER TO LIFE SAFETY PLANS FOR PARTITION RATINGS

RATING	UL DESIGN #	GRAPHIC	STC	STC W/ 3" SAB
NON-RATED	N/A		N/A	N/A

CONSTRUCTION

SUFFIX	CMU WIDTH	STUD SIZE	OVERALL WIDTH	REMARKS
8	7 5/8"	3 5/8"	7 5/8"	
12	11 5/8"	3 5/8"	11 5/8"	

PARTITION TYPE X



FLOOR PLAN DESIGNATION — XB# — PARTITION TYPE — SIZE SUFFIX

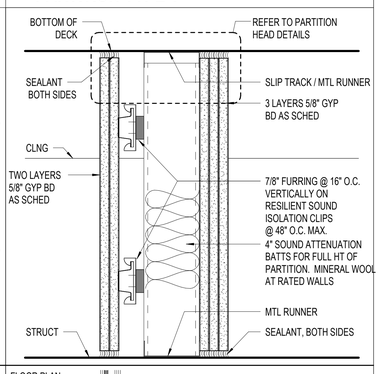
DESIGN CRITERIA — REFER TO LIFE SAFETY PLANS FOR PARTITION RATINGS

RATING	UL DESIGN #	GRAPHIC	STC	STC W/ 3" SAB
NON-RATED	N/A		40	49

CONSTRUCTION

SUFFIX	CMU WIDTH	STUD SIZE	OVERALL WIDTH	REMARKS
8	7 5/8"	3 5/8"	9 1/4"	STC BASED UPON STUD PARTITION
12	11 5/8"	3 5/8"	13 1/4"	

PARTITION TYPE XB



FLOOR PLAN DESIGNATION — L# — PARTITION TYPE — SIZE SUFFIX

DESIGN CRITERIA — REFER TO LIFE SAFETY PLANS FOR PARTITION RATINGS

RATING	UL DESIGN #	GRAPHIC	STC	STC W/ 3" SAB
NON-RATED	N/A		N/A	61
SMOKE RES.	N/A		N/A	61
1 HR.	U419		N/A	61

CONSTRUCTION

SUFFIX	STUD SIZE	OVERALL WIDTH	REMARKS
3	3 5/8"	8 3/8"	3 LAYERS OF GYP BD SHALL GO ON THE SIDE OF WALL REQUIRING ATTENUATION
6	6"	11 3/8"	

PARTITION TYPE L

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
VERO BEACH, FLORIDA 32963

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PARTITION TYPES AND DETAILS

G032

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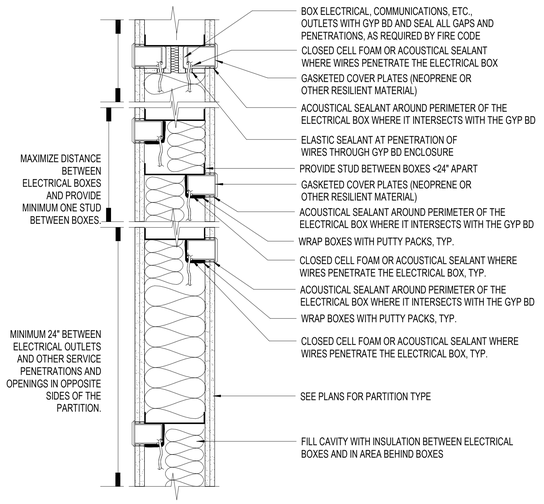
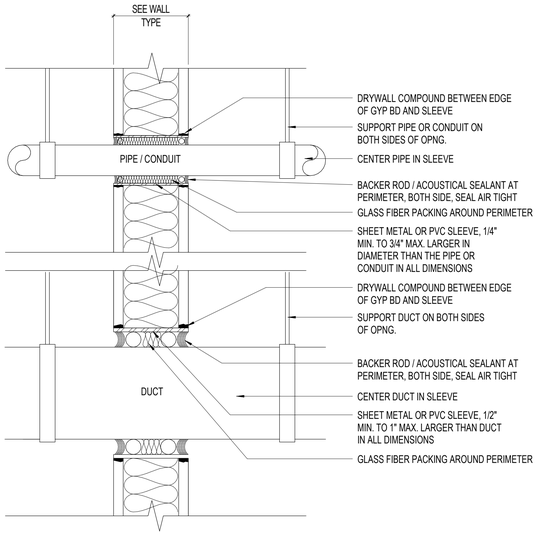


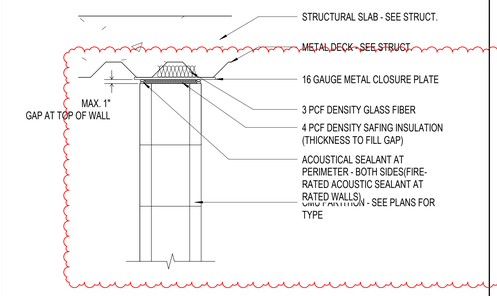
L1 — PENETRATIONS AT ACOUSTICAL PARTITONS 2

1 1/2" = 1'-0"



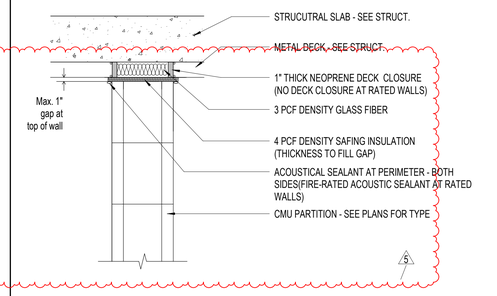
E1 — PENETRATIONS AT ACOUSTICAL PARTITIONS

3" = 1'-0"



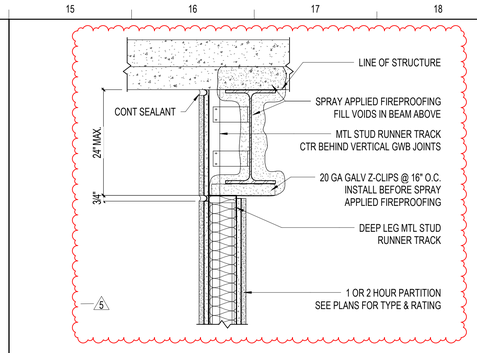
N17 — ACOUSTICAL CMU WALL AT DECK - PARALLEL

1 1/2" = 1'-0"



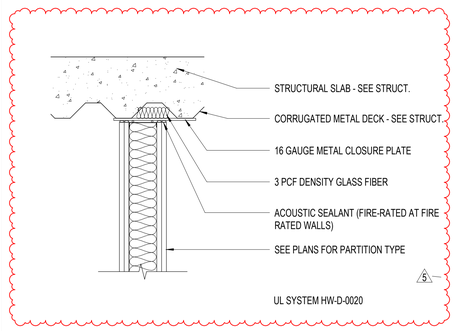
N11 — ACOUSTIC CMU WALL AT DECK - PERPENDICULAR

1 1/2" = 1'-0"



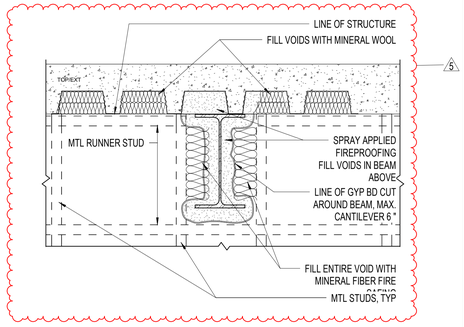
N15 — HEAD AT RATED PARTITION UNDER BEAM (OFFSET)

1 1/2" = 1'-0"



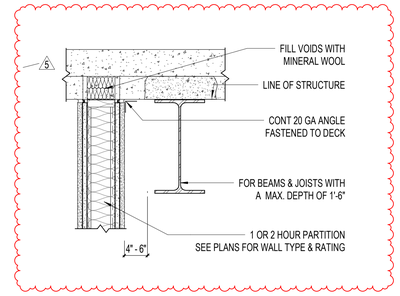
J17 — ACOUSTICAL WALL AT DECK - PARALLEL

1 1/2" = 1'-0"



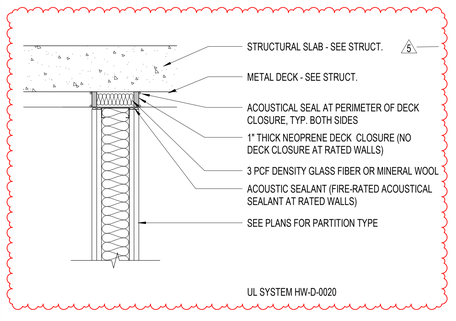
J11 — HEAD AT RATED PARTITION PERPENDICULAR TO BEAM

1 1/2" = 1'-0"



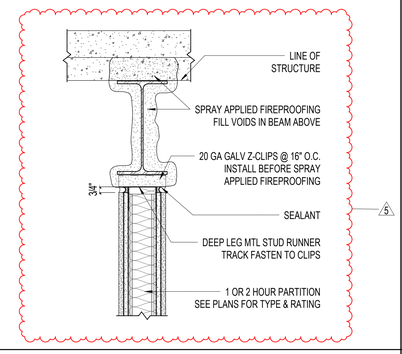
J15 — HEAD AT RATED PARTITION ADJACENT TO BEAM (4"-6")

1 1/2" = 1'-0"



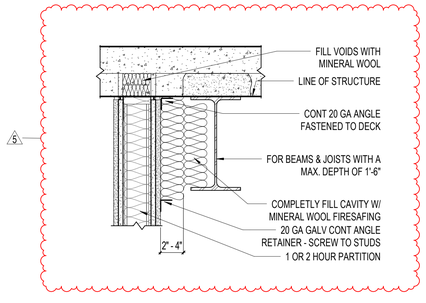
E17 — ACOUSTICAL WALL AT DECK - PERPENDICULAR

1 1/2" = 1'-0"



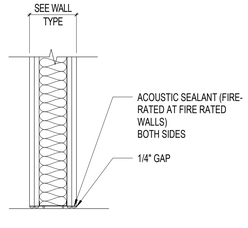
E11 — HEAD AT RATED PARTITION UNDER BEAM (CENTERED)

1 1/2" = 1'-0"



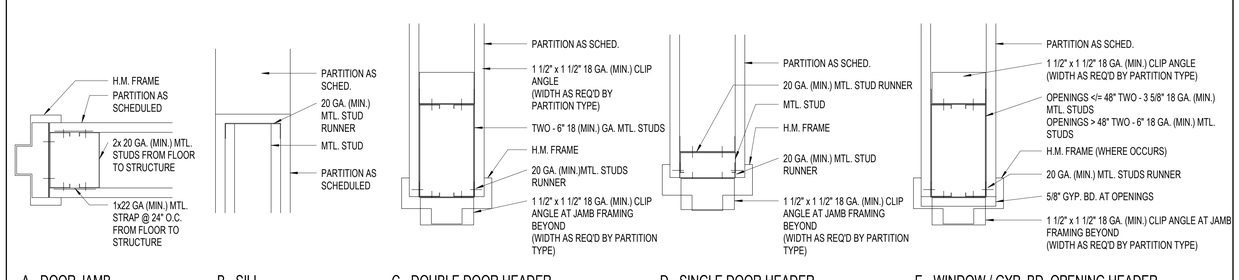
E15 — HEAD AT RATED PARTITION ADJACENT TO BEAM (2" -4")

1 1/2" = 1'-0"



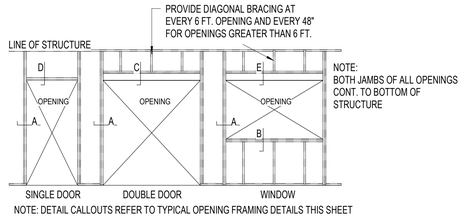
A1 — ACOUSTICAL WALL AT PLATE

1 1/2" = 1'-0"



A5 — TYPICAL OPENING FRAMING DETAILS

3" = 1'-0"



A15 — TYPICAL METAL STUD PARTITION DETAILS

1/4" = 1'-0"

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VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL SCHOOL WEST - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
VERO BEACH, FLORIDA 32968

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Winter Park, FL 32789
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5	Addendum -04 - IRC BUILDING REVIEW COMMENTS	6/6/2025

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ISSUE DATE: 12/23/2024
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TYPICAL PARTITION DETAILS

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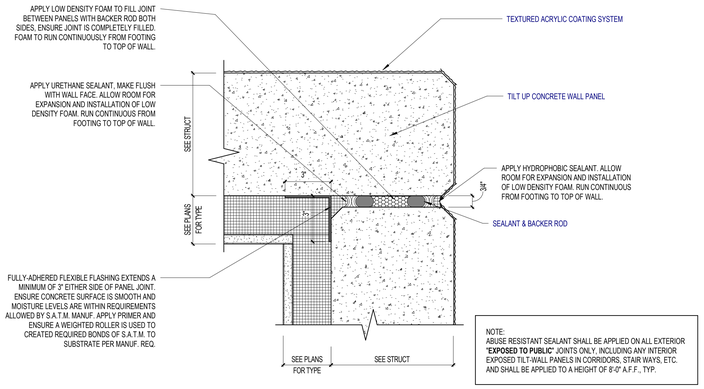
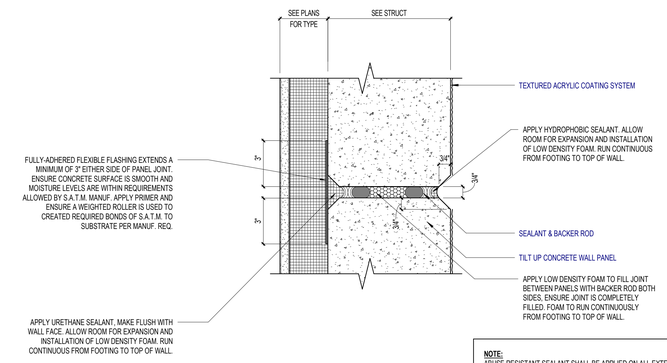


NOTE:
ABUSE RESISTANT SEALANT SHALL BE APPLIED ON ALL EXTERIOR **"EXPOSED TO PUBLIC"** JOINTS ONLY, INCLUDING ANY INTERIOR EXPOSED TILT-WALL PANELS IN CORRIDORS, STAIR WAYS, ETC. AND SHALL BE APPLIED TO A HEIGHT OF 8'-0" A.F.F., TYP.

M1 TW_W_03-TYPICAL EXTERIOR CORNER CONDITION PLAN DETAIL

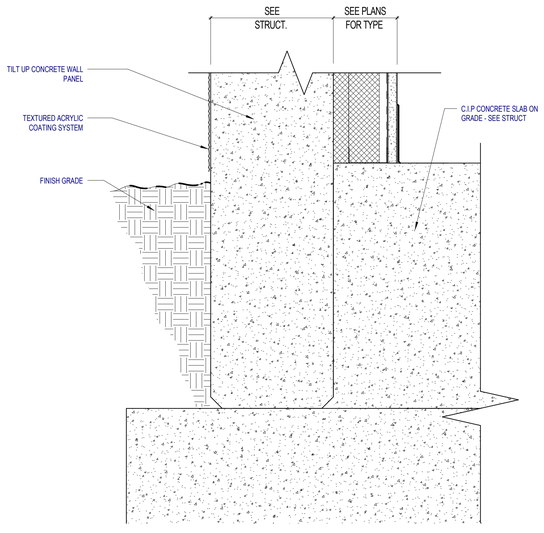
3" = 1'-0"



NOTE:
ABUSE RESISTANT SEALANT SHALL BE APPLIED ON ALL EXTERIOR **"EXPOSED TO PUBLIC"** JOINTS ONLY, INCLUDING ANY INTERIOR EXPOSED TILT-WALL PANELS IN CORRIDORS, STAIR WAYS, ETC. AND SHALL BE APPLIED TO A HEIGHT OF 8'-0" A.F.F., TYP.

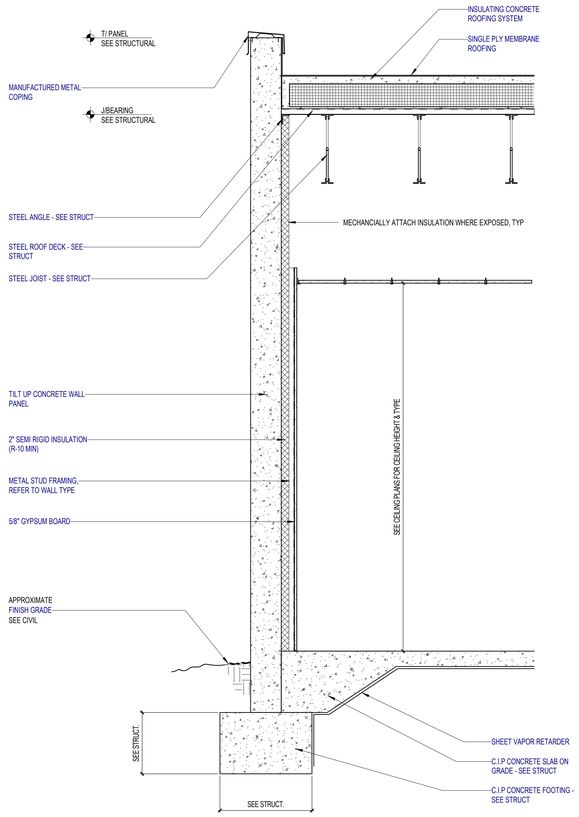
G1 TW_W_06-TYPICAL VERTICAL PANEL JOINT

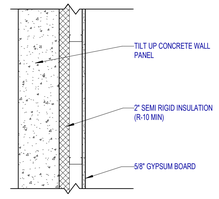
3" = 1'-0"



A1 WALL FOOTING (EWS-TW)

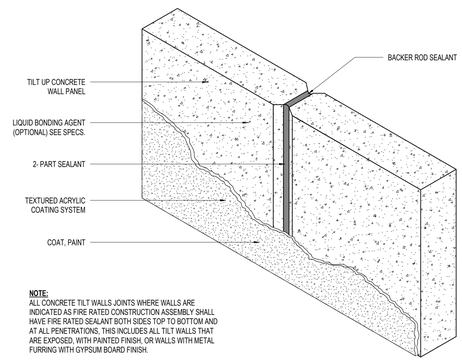
3" = 1'-0"





CALCULATED R- VALUE

ASSEMBLY ITEM	R-VALUE
OUTSIDE AIR FILM	0.17
AIR SPACE (MIN. 1/2")	1.00
TILT WALL PANEL	0.05
SEMI- RIGID INSULATION - 2" (MIN. R-VALUE)	10.00
GYPSUM BOARD	0.56
INSIDE AIR FILM	0.68
TOTAL CALCULATED MIN. CONTINUOUS R-VALUE	12.91



NOTE:
ALL CONCRETE TILT WALLS JOINTS WHERE WALLS ARE INDICATED AS FIRE RATED CONSTRUCTION ASSEMBLY SHALL HAVE FIRE RATED SEALANT BOTH SIDES TOP TO BOTTOM AND AT ALL PENETRATIONS, THIS INCLUDES ALL TILT WALLS THAT ARE EXPOSED, WITH PAINTED FINISH, OR WALLS WITH METAL FURRING WITH GYPSUM BOARD FINISH.

3D_18-TILT-UP SYSTEM COMPONENT

VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
VERO BEACH, FLORIDA 32963

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EXTERIOR WALL SYSTEM DETAILS - TILT WALL 01

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OCC SCHEDULE_EDUCATIONAL-1ST FL

LEVEL	NUMBER	NAME	AREA	MODIFIER	OCC LOAD
FIRST FLOOR	1-116	CLASSROOM	689 SF	20 SF	36
FIRST FLOOR	1-117	MUSIC	740 SF	20 SF	39
FIRST FLOOR	1-118	CLASSROOM	649 SF	20 SF	33
FIRST FLOOR	1-119	DRAMA	706 SF	20 SF	37
FIRST FLOOR	1-120	CLASSROOM	649 SF	20 SF	33
FIRST FLOOR	1-121	ART	723 SF	20 SF	37
FIRST FLOOR	1-122	CLASSROOM	649 SF	20 SF	33
FIRST FLOOR	1-123	CLASSROOM	649 SF	20 SF	33
FIRST FLOOR	1-124	CLASSROOM	674 SF	20 SF	35
FIRST FLOOR	1-125	CLASSROOM	611 SF	20 SF	33
FIRST FLOOR	1-126	CLASSROOM	648 SF	20 SF	33
					382

OCC SCHEDULE_EDUCATIONAL- 2ND FL

LEVEL	NUMBER	NAME	AREA	MODIFIER	OCC LOAD
SECOND FLOOR	1-202	SCIENCE	843 SF	20 SF	43
SECOND FLOOR	1-205	CLASSROOM	764 SF	20 SF	39
SECOND FLOOR	1-206	CLASSROOM	697 SF	20 SF	36
SECOND FLOOR	1-207	CLASSROOM	697 SF	20 SF	36
SECOND FLOOR	1-208	CLASSROOM	697 SF	20 SF	36
SECOND FLOOR	1-209	CLASSROOM	697 SF	20 SF	36
SECOND FLOOR	1-213	CLASSROOM	697 SF	20 SF	36
SECOND FLOOR	1-214	CLASSROOM	684 SF	20 SF	35
SECOND FLOOR	1-215	CLASSROOM	722 SF	20 SF	37
SECOND FLOOR	1-216	CLASSROOM	672 SF	20 SF	36
SECOND FLOOR	1-217	CLASSROOM	696 SF	20 SF	36
SECOND FLOOR	1-218	CLASSROOM	659 SF	20 SF	34
					440

OCCUPANT LOAD CALCULATIONS - FBC (TABLE 1004.5) , NFPA 101 (TABLE 7.3.1.2)

TOTAL GYM OCCUPANT LOAD OF THE PROJECT : 1,254
7 S.F./ 1 OCCUPANCY (GYM COURT: 1,140 + GYM LOBBY : 114) SEE BELOW PLAN FOR TWO DIFFERENT SCENARIOS FOR GYM FLOOR OCCUPANT LOADS.

TOTAL ASSEMBLY OCCUPANT LOAD OF THE PROJECT : 48
15 S.F./ 1 OCCUPANCY (STAFF BREAK ROOM: 25 + CONFERENCE : 23)

TOTAL BUSINESS OCCUPANT LOAD OF THE PROJECT : 14
150 S.F./ 1 OCCUPANCY (ADMIN AREA:9 + MAINT. OFFICE:1 + CONCESSION:2 + COACH OFFICE:2)

TOTAL PREP ROOM OCCUPANT LOAD OF THE PROJECT : 6
100 S.F./ 1 OCCUPANCY

TOTAL STORAGE OCCUPANT LOAD OF THE PROJECT : 2
300 S.F./ 1 OCCUPANCY

TOTAL EDUCATIONAL OCCUPANT LOAD OF THE PROJECT : 822
20 S.F./ 1 OCCUPANCY (1ST FL: 382 + 2ND FL: 440) CLASSROOMS

TOTAL LIBRARY OCCUPANT LOAD OF THE PROJECT : 34
50 S.F./ 1 OCCUPANCY

TOTAL LOCKER OCCUPANT LOAD OF THE PROJECT : 16
50 S.F./ 1 OCCUPANCY (BOYS: 8 + GIRLS:8)

TOTAL OCC LOAD OF 1ST FLOOR : [(A) 1254] + [(B) 48+14+6+2] + [(E) 382+16] = 1,722

TOTAL OCC LOAD OF 2ND FLOOR CLASSROOM BUILDING : [(E) 440 + 34 = 474

TOTAL OCC LOAD OF THE PROJECT: 2,196

Vero Classical School West - Phase I 6/6/2025
Plumbing Fixture Calculations

	Assembly	Business	Educational
Total Occupant Load based on Life safety Calculations	1254	70	872
Maximum student station stations reported to the Indian River County Planning Department for the Special Exception Application Approval	1254	70	330

FBC Table 403.1 - Minimum Number of Required Plumbing Fixtures

CLASSIFICATION	DESCRIPTION	WATER CLOSETS (URINALS: SEE SECTION 424.2)		LAVATORIES		BATHTUBS / SHOWERS	DRINKING FOUNTAIN (SEE SECTION 410)	OTHER
		MALE	FEMALE	MALE	FEMALE			
Assembly	Gymnasiums	1 per 125	1 per 65	1 per 200		--	1 per 500	1 service sink
Business	Buildings for the transaction of business, professional services.	1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50		1 per 40 for the first 80 and 1 per 80 for the remainder exceeding 80		--	1 per 100	1 service sink
Educational	Educational facilities	1 per 50		1 per 50		--	1 per 100	1 service sink

Required Plumbing Fixture Calculations Based on the Life Safety Building Occupant Loads

Assembly	Gymnasiums/Lobby	$\frac{1254}{125} = 9.03$	$\frac{1254}{65} = 9.65$	$\frac{1254}{200} = 3.125$	$\frac{1254}{200} = 3.125$	1254/500 = 3	1
Business	Admin, Offices, including conference room, staff break room and Prep room	70 total Occ. 2+1=3		2		70/100=0.7	1
Educational	Classrooms/Library	$\frac{436}{50} = 8.72$	$\frac{437}{50} = 8.72$	$\frac{436}{50} = 8.72$	$\frac{437}{50} = 8.72$	872/100 = 8.72	1

Required Plumbing Fixture Calculations Based on Maximum Students Stations (330 Students)

Assembly	Gymnasiums/Lobby	$\frac{330}{125} = 9.03$	$\frac{330}{65} = 9.65$	$\frac{330}{200} = 3.125$	$\frac{330}{200} = 3.125$	1254/500 = 3	1
Business	Admin, Offices, including conference room, staff break room and Prep room	70 total Occ. 2+1=3		2		70/100=0.7	1
Educational	Classrooms/Library	$\frac{330}{50} = 3.3$	$\frac{330}{50} = 3.3$	$\frac{330}{50} = 3.3$	$\frac{330}{50} = 3.3$	330/100 = 3.3	1

Provided Plumbing Fixtures

Assembly	Gymnasiums/Lobby	7	15	4	5	2	4	1
Business	Admin, Offices, including conference room, staff break room and Prep room	5		5		1	2	1
Educational	Classrooms/Library	10	15	10	10		10	1

First Floor 165/50 =3.3 regd. 8 provided (male & female)
Second Floor 165/50 =3.3 regd. 8 provided (male & female)
Additional fixtures provided
4 (2 Outdoor Dining + 2 Gym Lockers)

Tabulation for Occupant Load Supported by the Provided Plumbing Fixtures

Assembly	Gymnasiums/Lobby	7 x 125 = 875 Occ.	15 x 65 = 950 Occ.	4 x 200 = 800 Occ.	5 x 200 = 1000 Occ.	2	4 x 500 =2000 Occ.	1
Business	Admin, Offices, including conference room, staff break room and Prep room	5 fix. (50 =150)=300 Occ.		5 fix. (80 = 240) =320 Occ.		1	2 x 100 = 200 Occ.	1
Educational	Classrooms/Library	10 x 50 = 500 Occ.	10 x 50 = 500 Occ.	10 x 50 = 500 Occ.	10 x 500 = Occ.		10 x 100 = 1000 Occ.	1

	CURRENT BUILDING OCCUPANT LOAD CALCULATION PER FBC TABLE 1004.5	OCCUPANT LOAD SUPPORTED BY PROVIDED PLUMBING FIXTURES
Assembly: Gymnasiums/Lobby	1254	1125
Business: Admin, Offices, including conference room, staff break room and Prep room	70	200
Educational: Classrooms/Library	872	1000

OCCUPANCY LOAD CLASSIFICATION

- ASSEMBLY EXHIBIT GALLERY AND MUSEUM
- ASSEMBLY W/O FIXED SEATS - UNCONCENTRATED
- ASSEMBLY W/O FIXED SEATS - CONCENTRATED
- ASSEMBLY W/O FIXED SEATS - STANDING AREA
- ASSEMBLY W/O FIXED SEATS - UNCONCENTRATED
- ASSEMBLY W/FIXED SEATS - UNCONCENTRATED
- BUSINESS AREA
- EDUCATIONAL - CLASSROOM
- EDUCATIONAL - SHOPS & OTHER VOCATIONAL
- EDUCATIONAL - SREF - CCTV
- EDUCATIONAL - SREF - DRESSING ROOM
- EDUCATIONAL - SREF - GYMNASIUM (MAIN COURT) ADD BLEACHER SEATING CAPACITY
- EDUCATIONAL - SREF - INTERIOR COURTYARD
- EDUCATIONAL - SREF - LOCKER ROOM
- EDUCATIONAL - SREF - MEDIA CENTER SMALL GROUP
- KITCHEN - COMMERCIAL
- READING ROOM
- STACKS
- LOCKER ROOM OCCUPANCY
- ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM
- MERCANTILE BASEMENT & GRADE
- MERCANTILE STOCKING
- PARKING GARAGE
- STAGE / PLATFORM OCCUPANCY
- WAREHOUSE
- EXERCISE ROOM

PATH OF TRAVEL - 1ST FLOOR

PATH ID	COMMON PATH OF TRAVEL	TOTAL TRAVEL DISTANCE
TD-1A	45'	123'
TD-1B	49'	129'
TD-1C	48'	59'
TD-1D	38'	132'
TD-1E	0'	73'
TD-1F	0'	57'
TD-1G	15'	75'

GRAPHIC PATTERN — **WALL RATING**

DENOTES SMOKE PARTITION

DENOTES 1 HOUR FIRE RATED CONSTRUCTION

TP — PATH ID — MAXIMUM TRAVEL DISTANCE PATH

CP — PATH ID — COMMON PATH OF TRAVEL

PRIMARY EGRESS

EXIT SIGN - CEILING MOUNT — EXIT SIGN - WALL MOUNT

FE — FIRE EXTINGUISHER ON WALL BRACKET — FEC — FIRE EXTINGUISHER IN SEMI-RECESSED CABINET

LOCK BOX- EXACT LOCATION TO BE COORDINATED WITH LOCAL FIRE DEPARTMENT. MOUNTING HT. 4'-0" A.F.F., TIE TO FIRE ALARM

ROOM CAPACITY TAG

NAME — ROOM NAME
1-101 — ROOM NUMBER
SF — NET OR GROSS ROOM AREA PER LIFE SAFETY CODE
— ## — ROOM OCCUPANT CAPCITY / OCCUPANCY MODIFIER PER LIFE SAFETY CODE

STAIR CAPACITY TAG

1911 — EGRESS CAPACITY PER CODE

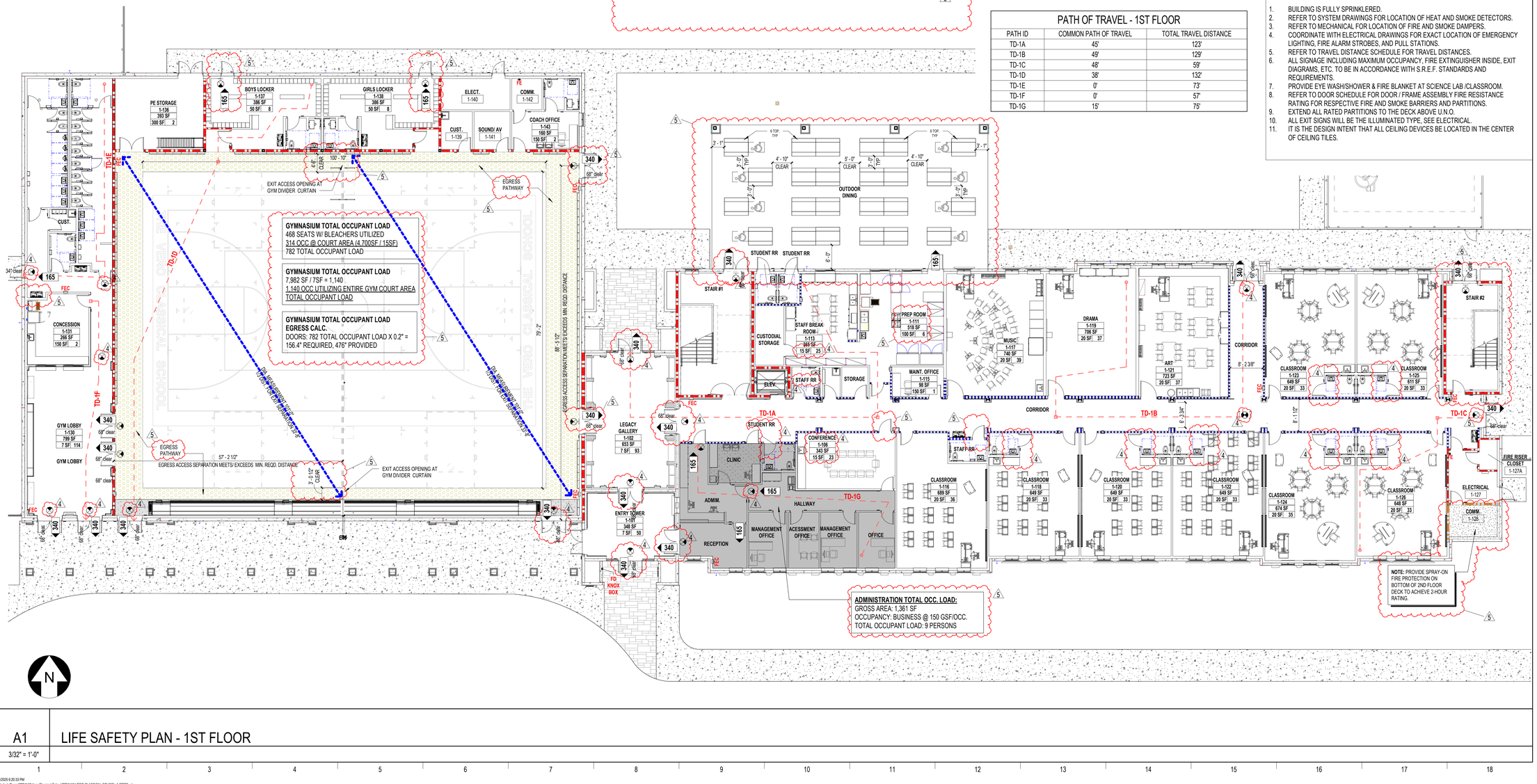
DOOR CAPACITY TAGS

1340 — EGRESS CAPACITY PER CODE

1340 — ARROW INDICATES DIRECTION OF TRAVEL

GENERAL LIFE SAFETY NOTES:

1. BUILDING IS FULLY SPRINKLERED.
2. REFER TO SYSTEM DRAWINGS FOR LOCATION OF HEAT AND SMOKE DETECTORS.
3. REFER TO MECHANICAL FOR LOCATION OF FIRE AND SMOKE DAMPERS.
4. COORDINATE WITH ELECTRICAL DRAWINGS FOR EXACT LOCATION OF EMERGENCY LIGHTING, FIRE ALARM STROBES, AND PULL STATIONS.
5. REFER TO TRAVEL DISTANCE SCHEDULE FOR TRAVEL DISTANCES.
6. ALL SIGNAGE INCLUDING MAXIMUM OCCUPANCY, FIRE EXTINGUISHER INSIDE, EXIT DIAGRAMS, ETC. TO BE IN ACCORDANCE WITH S.R.E.F. STANDARDS AND REQUIREMENTS.
7. PROVIDE EYE WASH/SHOWER & FIRE BLANKET AT SCIENCE LAB /CLASSROOM.
8. REFER TO DOOR SCHEDULE FOR DOOR / FRAME ASSEMBLY FIRE RESISTANCE RATING FOR RESPECTIVE FIRE AND SMOKE BARRIERS AND PARTITIONS.
9. EXTEND ALL RATED PARTITIONS TO THE DECK ABOVE U.N.O.
10. ALL EXIT SIGNS WILL BE THE ILLUMINATED TYPE, SEE ELECTRICAL.
11. IT IS THE DESIGN INTENT THAT ALL CEILING DEVICES BE LOCATED IN THE CENTER OF CEILING TILES.



Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL SCHOOL WEST - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
VERO BEACH, FLORIDA 32968

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MARK	DESCRIPTION	DATE
4	IRC BUILDING PLUMBING REVIEW COMMENTS	5/12/2025
5	Addendum -04 - IRC BUILDING REVIEW COMMENTS	9/6/2025

COMM. NO.: 2024117
ISSUE DATE: 12/23/2024
DRAWN BY: JL

LIFE SAFETY PLAN

A1 — LIFE SAFETY PLAN - 1ST FLOOR
3/32" = 1'-0"

G101
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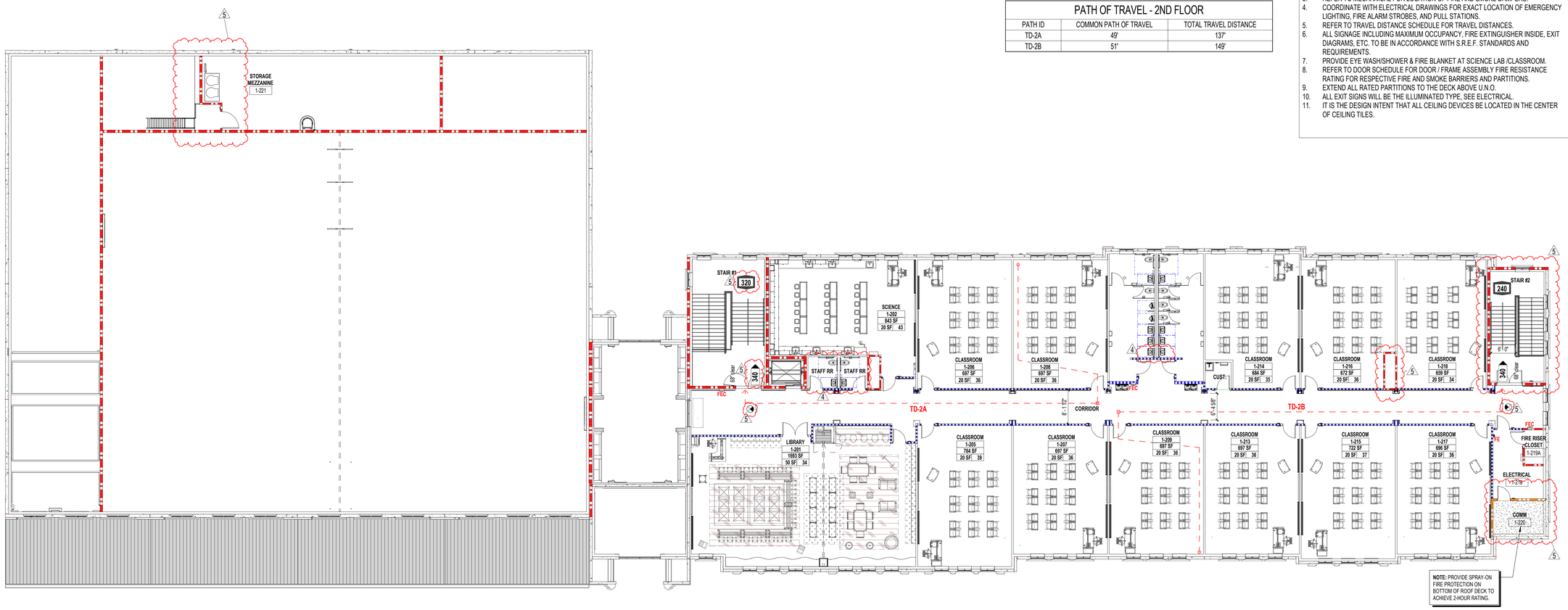

OCCUPANCY LOAD CLASSIFICATION

- ASSEMBLY EXHIBIT GALLERY AND MUSEUM
- ASSEMBLY W/O FIXED SEATS - UNCONCENTRATED
- ASSEMBLY W/O FIXED SEATS - CONCENTRATED
- ASSEMBLY W/O FIXED SEATS - STANDING AREA
- ASSEMBLY W/O FIXED SEATS - UNCONCENTRATED
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- MERCANTILE STOCKING
- PARKING GARAGE
- STAGE / PLATFORM OCCUPANCY
- WAREHOUSE
- EXERCISE ROOM

PATH OF TRAVEL - 2ND FLOOR

PATH ID	COMMON PATH OF TRAVEL	TOTAL TRAVEL DISTANCE
TD-2A	49'	137'
TD-2B	51'	149'

GRAPHIC PATTERN / **WALL RATING**

- DENOTES SMOKE PARTITION
- DENOTES 1 HOUR FIRE RATED CONSTRUCTION

- TP PATH ID — MAXIMUM TRAVEL DISTANCE PATH
- CP PATH ID — COMMON PATH OF TRAVEL
- PRIMARY EGRESS
- EXIT SIGN - CEILING MOUNT
- EXIT SIGN - WALL MOUNT
- FE FIRE EXTINGUISHER ON WALL BRACKET
- FEC FIRE EXTINGUISHER IN SEMI-RECESSED CABINET
- LOCK BOX- EXACT LOCATION TO BE COORDINATED WITH LOCAL FIRE DEPARTMENT. MOUNTING HT. 4'-0" A.F.F., TIE TO FIRE ALARM

ROOM CAPACITY TAG

NAME / 1-101 / ### SF / ## ##
- ROOM NAME
- ROOM NUMBER
- NET OR GROSS ROOM AREA PER LIFE SAFETY CODE
- ROOM OCCUPANT CAPCITY
- OCCUPANCY MODIFIER PER LIFE SAFETY CODE

STAIR CAPACITY TAG

1911 — EGRESS CAPACITY PER CODE

DOOR CAPACITY TAGS

1340 1340 — EGRESS CAPACITY PER CODE

1340 1340 — ARROW INDICATES DIRECTION OF TRAVEL

GENERAL LIFE SAFETY NOTES:

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3. REFER TO MECHANICAL FOR LOCATION OF FIRE AND SMOKE DAMPERS.
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11. IT IS THE DESIGN INTENT THAT ALL CEILING DEVICES BE LOCATED IN THE CENTER OF CEILING TILES.

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5	Addendum 04 - IRC BUILDING REVIEW COMMENTS	6/6/2025

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LIFE SAFETY PLAN

A1
3/32" = 1'-0"

LIFE SAFETY PLAN - 2ND FLOOR

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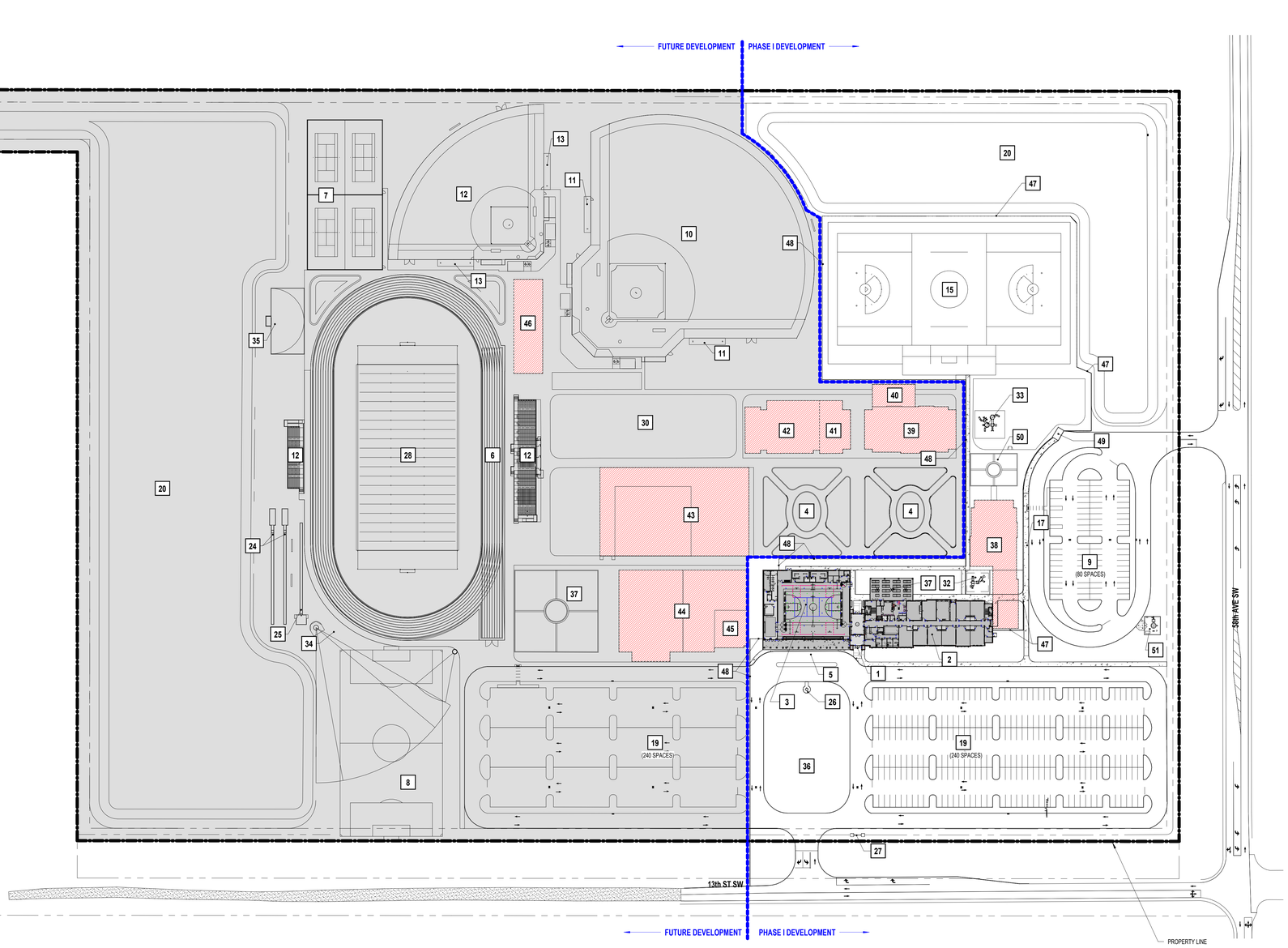

SITE PLAN LEGEND

1	MAIN ENTRANCE	31	BASEBALL AND SOFTBALL EQUIPMENT STORAGE
2	LOWER CLASSROOM BUILDING	32	TOT LOT
3	GYM BUILDING	33	YOUTH LOT (FUTURE)
4	COURT YARD	34	SHOT PUT
5	PARENT DROP-OFF AREA	35	HIGH JUMP
6	8 RANE RUNNING TRACK AND FIELD	36	GREEN FIELD
7	TENNIS COURT (6)	37	COVERED OUTDOOR DINNING
8	SOCCER PRACTICE FIELD	38	LOWER SCHOOL (FUTURE)
9	STAFF PARKING	39	UPPER SCHOOL (FUTURE)
10	BASEBALL FIELD	40	OUT-DOOR COVERED DINNING (FUTURE)
11	BASEBALL DUGOUT	41	SHARED US/MS LAPS (FUTURE)
12	SOFTBALL FIELD	42	MIDDLE SCHOOL CLASSROOM (FUTURE)
13	SOFTBALL DUGOUT	43	COMPETITION GYMNASIUM (FUTURE)
14	BLEACHERS	44	PERFORMING ART CENTER (FUTURE)
15	MULTI-PURPOSE PRACTICE FIELD	45	BLACK BOX/ MULTI PURPOSE SPACE (FUTURE)
16	BAND PRACTICE FIELD	46	FIELD HOUSE/ CONCESSION (FUTURE)
17	BUS DROP-OFF AREA	47	6' HIGH BLACK VINYL COATED CHAINLINK FENCE AND GATES
18	STUDENT PARKING	48	6' HIGH CONSTRUCTION CHAINLINK FENCE AND GATES
19	VISITOR/ STUDENT PARKING	49	DUMPSTER ENCLOSURE
20	RETENTION POND	50	EVENT PLAZA (FUTURE)
21	OUT DOOR BIKE STORAGE	51	LIFT STATION
22	DUMPSTER AREA		
23	OUTDOOR LEARING STEP		
24	LONG JUMP LANE		
25	POLE VAULT		
26	FLAG POLE		
27	LIGHTENED ENTRAY MONUMENT SCHOOL SIGN		FUTURE BUILDINGS
28	FOOTBALL PRACTICE FIELD		
29	SPORT EQUIPMENT STORAGE		
30	VOLLEYBALL COURT		

NOTE:
1. SEE CIVIL FOR TYPES AND MESSAGING ON ALL DIRECTIONAL SIGNS.
2. COORDINATE WITH THE OWNER FOR REQUIRED DIRECTIONAL SIGNAGE IN ADDITION TO SIGN SHOWN.
3. ALL TYPICAL SCHOOL SITE SIGNS INCLUDING THE REGULATORY SIGNS SHOWN ON CIVIL DRAWINGS MUST BE INCLUDED IN THE SCOPE OF WORK.

N

A1 ARCHITECTURAL MASTER SITE PLAN

1" = 80'-0"

80ft 0 80ft 160ft

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VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
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ARCHITECTURAL MASTER SITE PLAN - OVERALL

AS100
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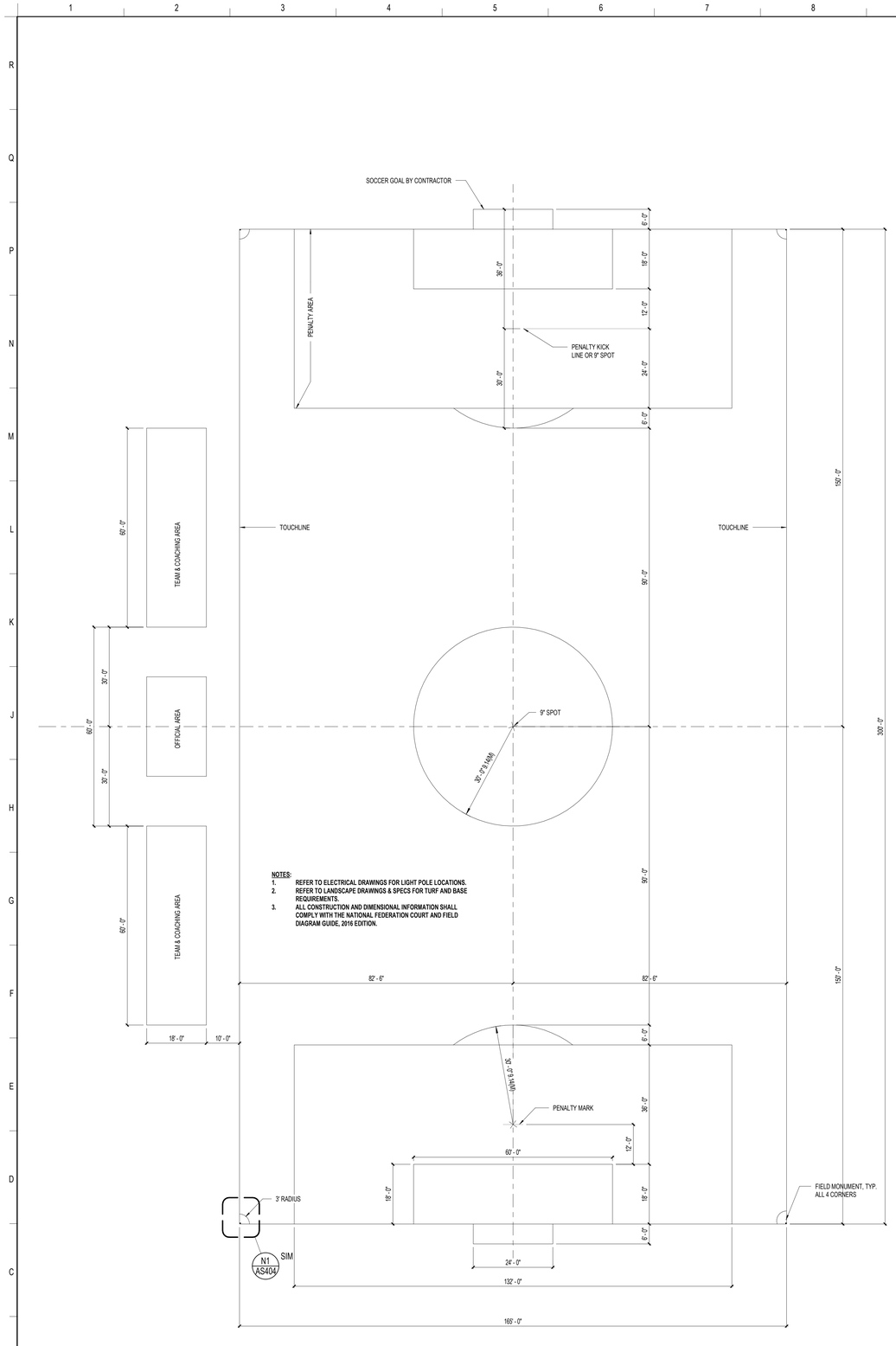
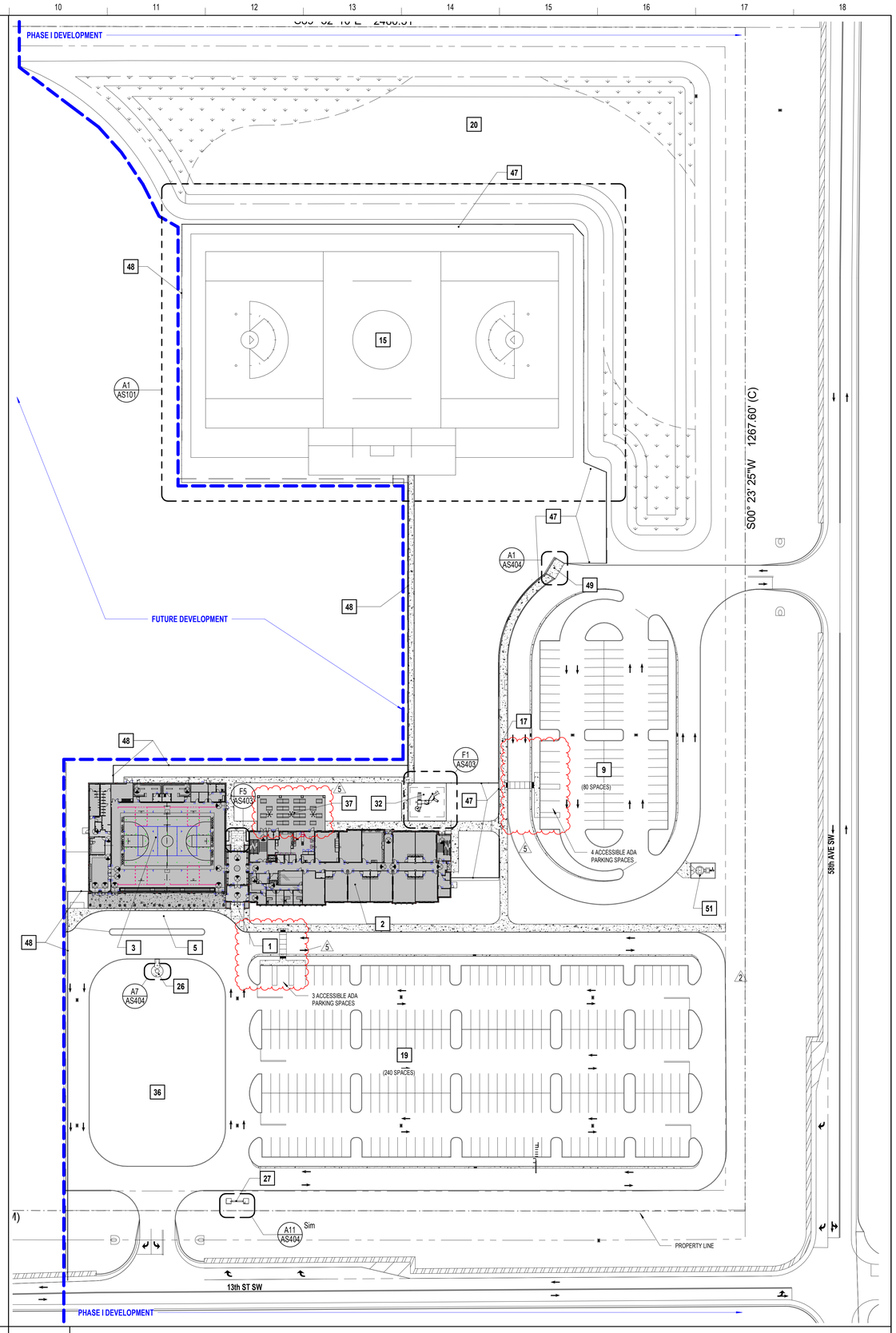


A1

SOCCER FIELD PLAN

1/16" = 1'-0"



A2

ARCHITECTURAL SITE PLAN - Phase I

1" = 50'-0"

VERO CLASSICAL SCHOOL

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51 Old Dixie Hwy, Vero Beach, FL 32962

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2	Addendum 02	02 07 2025
5	Addendum -04 - IRC BUILDING REVIEW COMMENTS	06/05/25

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ENLARGED SITE PLAN

AS101

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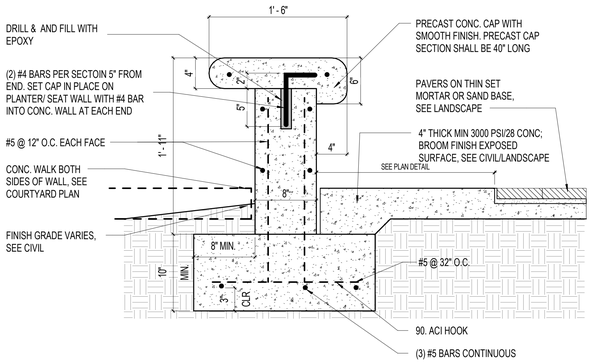
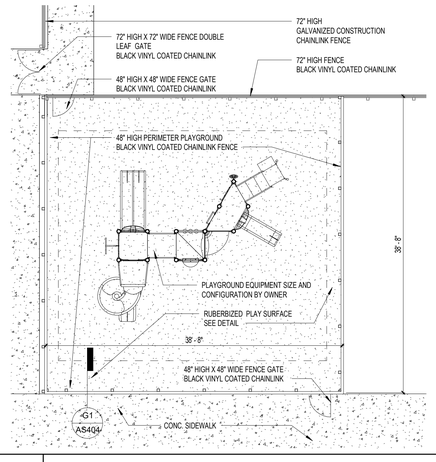


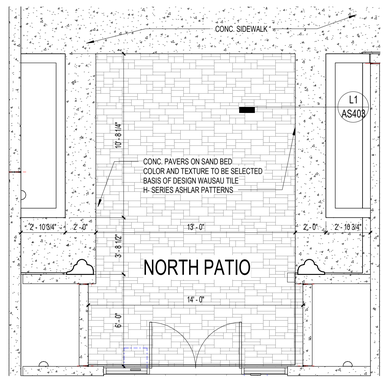
L1 PLANTER SEATING WALL

1 1/2" = 1'-0"



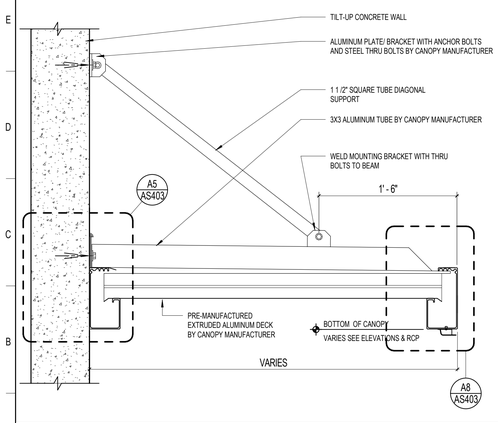
F1 PLAYGROUND PLAN

1/8" = 1'-0"



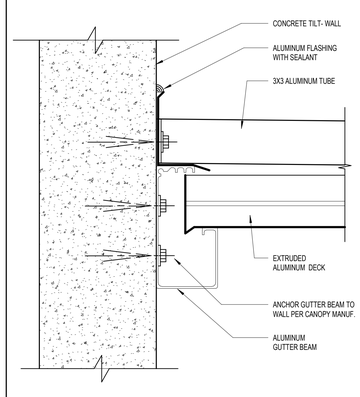
F5 NORTH PATIO PLAN

1/4" = 1'-0"



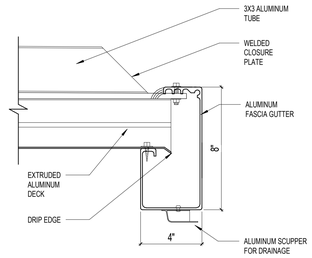
A1 ALUMINUM CANOPY SECTION @ TILT-WALL

1 1/2" = 1'-0"



A5 ALUMINUM CANOPY CONNECTION AT TILT-WALL

3" = 1'-0"



A8 ALUMINUM CANOPY EDGE DETAIL

3" = 1'-0"

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CANOPY DETAILS

AS403
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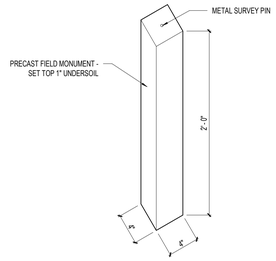
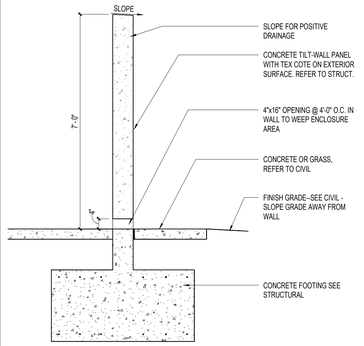


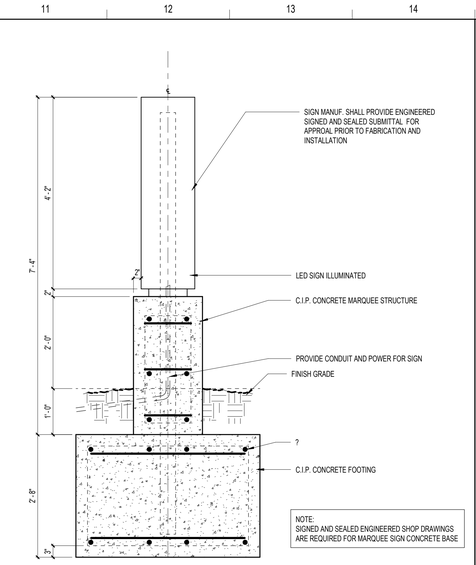
N1 SOCCER FIELD MONUMENT

1 1/2" = 1'-0"



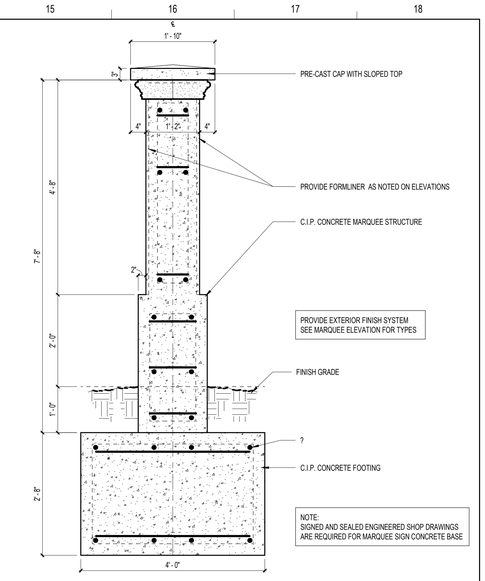
N4 DUMPSTER WALL SECTION

1/2" = 1'-0"



L11 MARQUEE SIGN - SECTION B

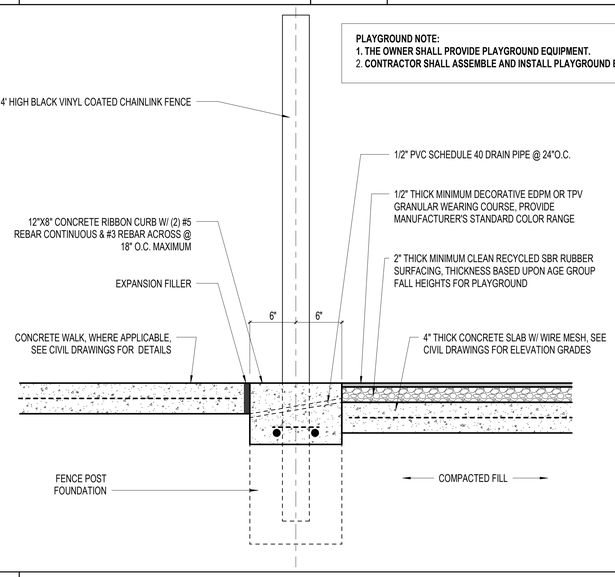
3/4" = 1'-0"



L15 MARQUEE SIGN - SECTION A

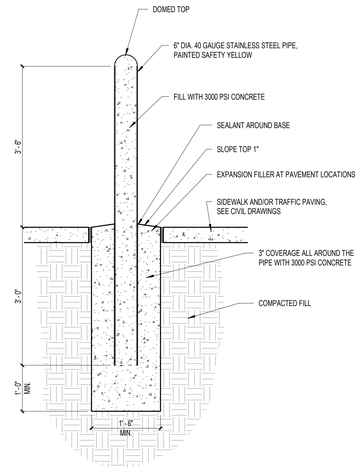
3/4" = 1'-0"

PLAYGROUND NOTE:
1. THE OWNER SHALL PROVIDE PLAYGROUND EQUIPMENT.
2. CONTRACTOR SHALL ASSEMBLE AND INSTALL PLAYGROUND EQUIPMENT.



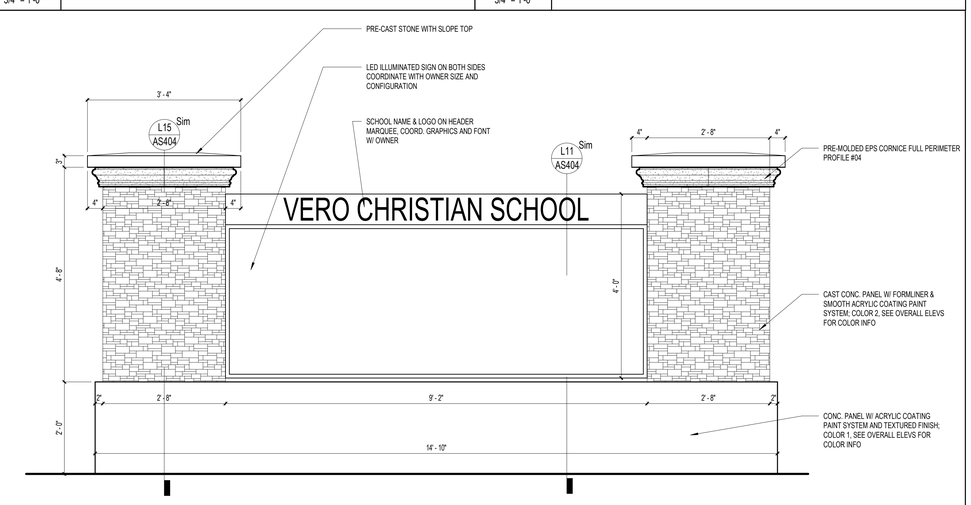
G1 PLAYGROUND EDGE DETAIL

1 1/2" = 1'-0"



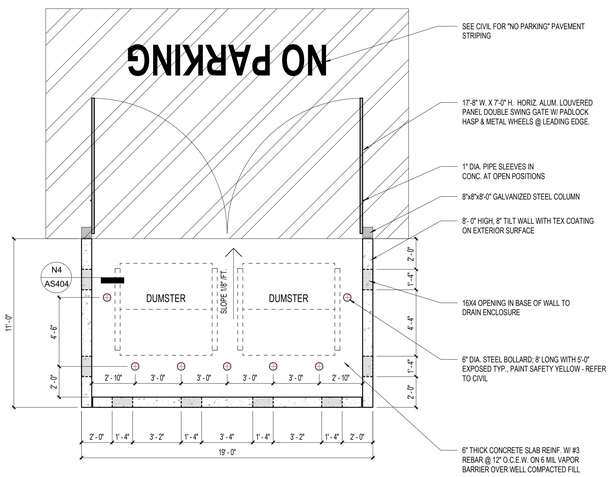
G7 BOLLARD DETAIL

3/4" = 1'-0"



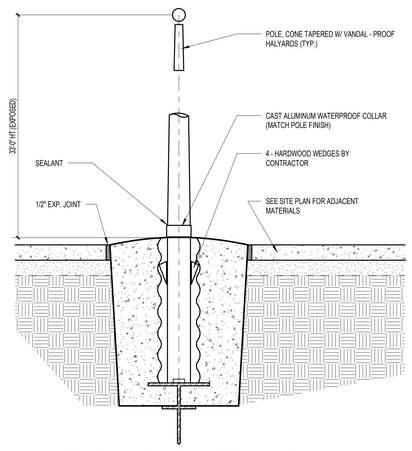
E11 MARQUEE SIGN - ELEVATION

3/4" = 1'-0"



A1 ENLARGED DUMPSTER ENCLOSURE PLAN

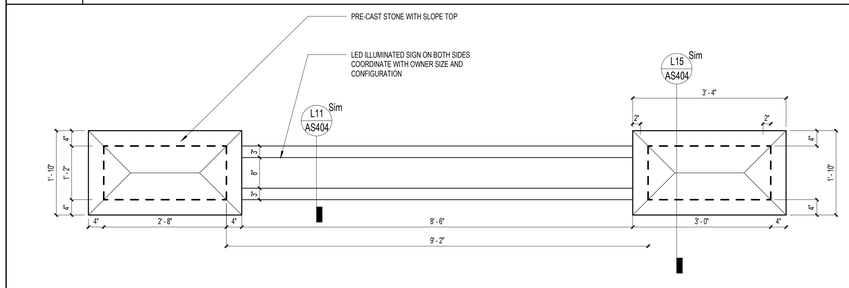
1/4" = 1'-0"



FLAGPOLE FOUNDATIONS AND CONNECTIONS SHALL BE DESIGNED BY VENDOR'S ENGINEER. SEE STRUCTURAL FOR FURTHER CRITERIA.

A7 FLAG POLE DETAIL

3/4" = 1'-0"



A11 MARQUEE SIGN - PLAN

3/4" = 1'-0"

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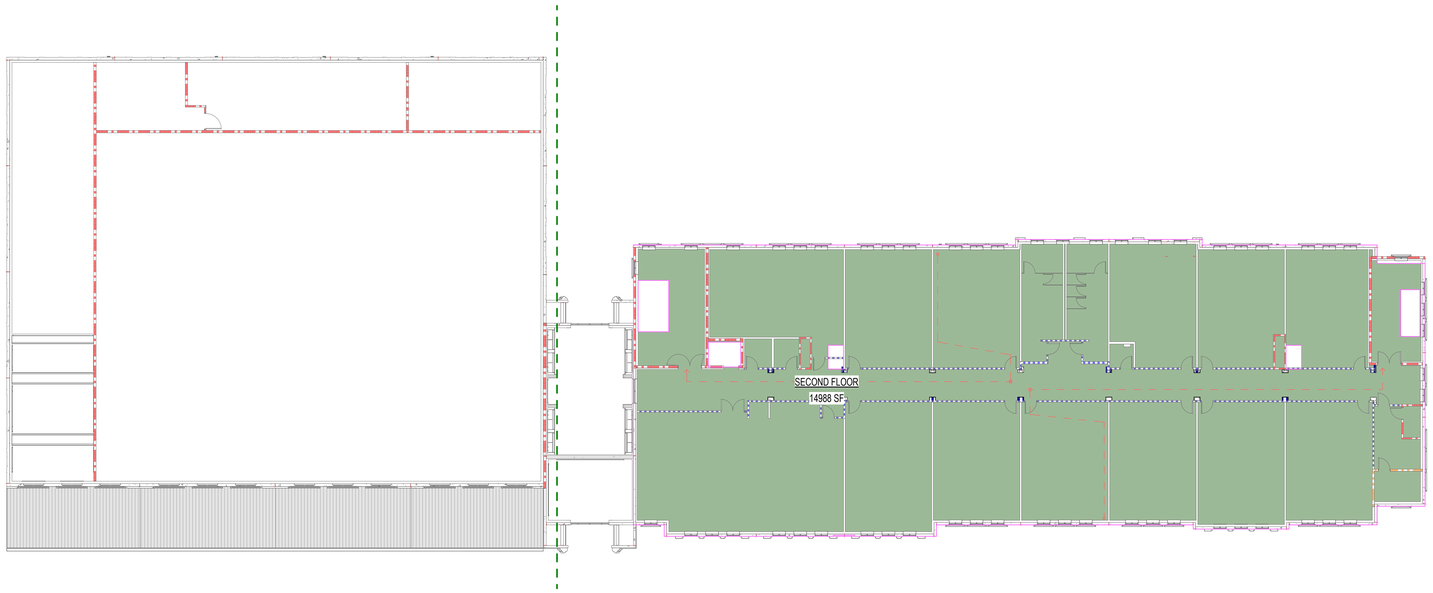

Building Area Legend

Gross Building Area

J1 SECOND FLOOR - AREA PLAN

1/16" = 1'-0"

* GROSS INTERIOR BUILDING AREA	
FLOOR	AREA
FIRST FLOOR CLASSROOM BUILDING	16473 SF
GYM	15748 SF
SECOND FLOOR	14988 SF
TOTAL INTERIOR AREA (PHASE 1):	47210 SF

* GROSS - EXTERIOR AREA	
FLOOR	AREA
COVERED OUTDOOR DINING	2484 SF
COVERED PARENTS DROP OFF	2187 SF
TOTAL EXTERIOR AREA (PHASE 1):: 2	4671 SF

Building Area Legend

Exterior Area

Gross Building Area

A1 FIRST FLOOR - AREA PLAN

1/16" = 1'-0"

6/9/2025 6:20:50 PM
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VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL SCHOOL WEST - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
VERO BEACH, FLORIDA 32968

SCHENKEL SHULTZ

834 N. Orange Avenue
Winter Park, FL 32789
voice 407-872-3322

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5	Addendum -04 - IRC BUILDING REVIEW COMMENTS	6/6/2025

COMM. NO.: 2024117
ISSUE DATE: 12/23/2024
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AREA PLANS

A001

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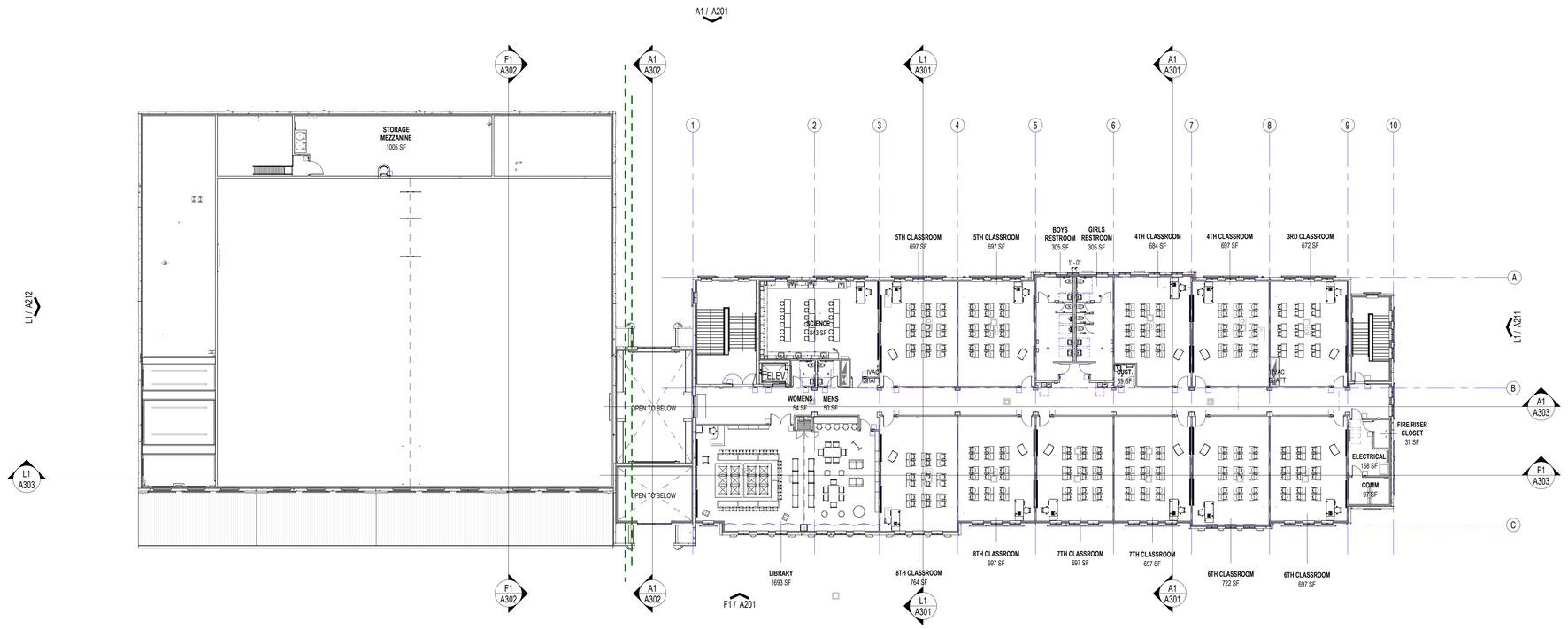
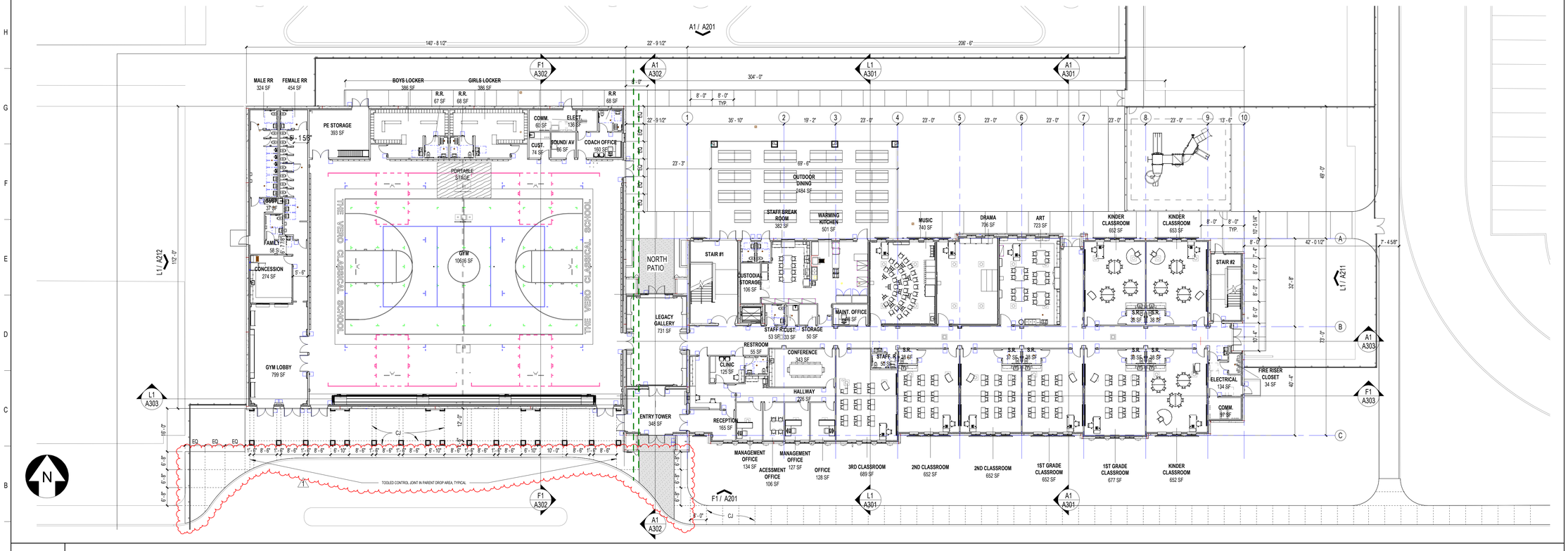


J1 FLOOR PLAN - 2ND FLOOR_OVERALL

1/16" = 1'-0"



A1 FLOOR PLAN - 1ST FLOOR_OVERALL

1/16" = 1'-0"

1/28/2025 5:16:09 PM
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VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
VERO BEACH, FLORIDA 32963

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OVERALL FLOOR PLANS

A101

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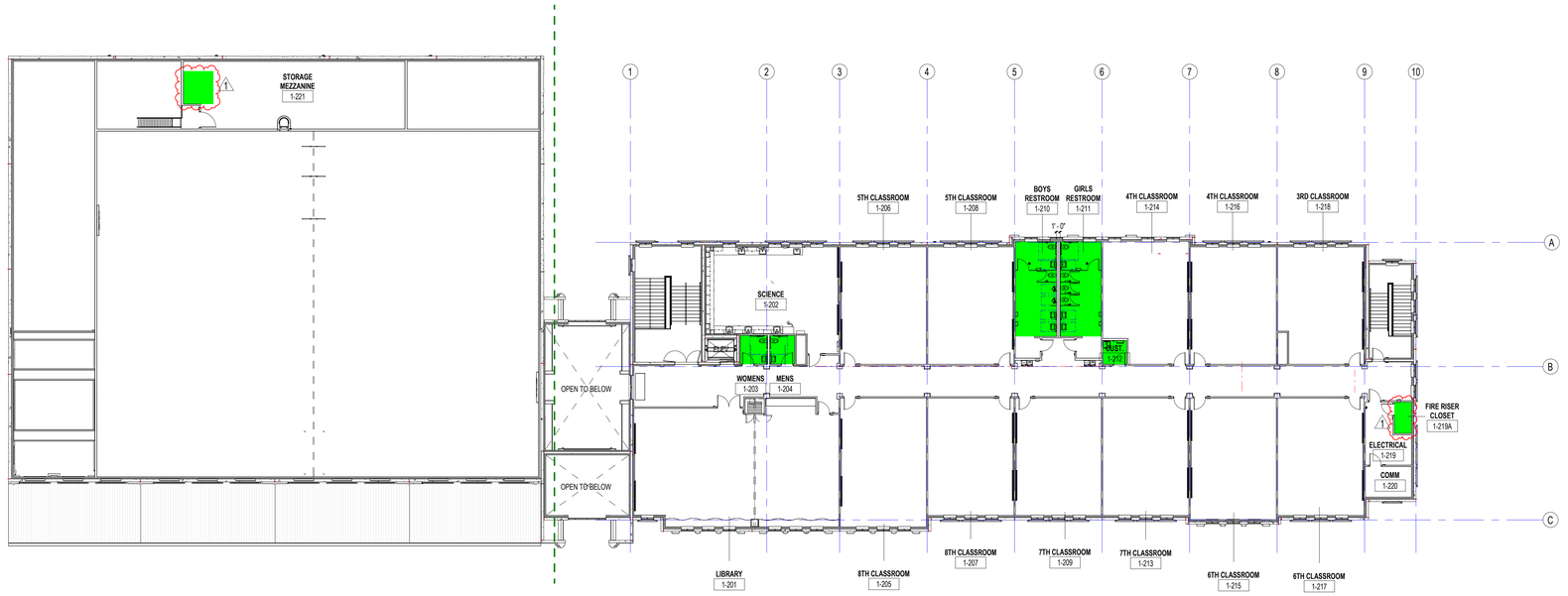
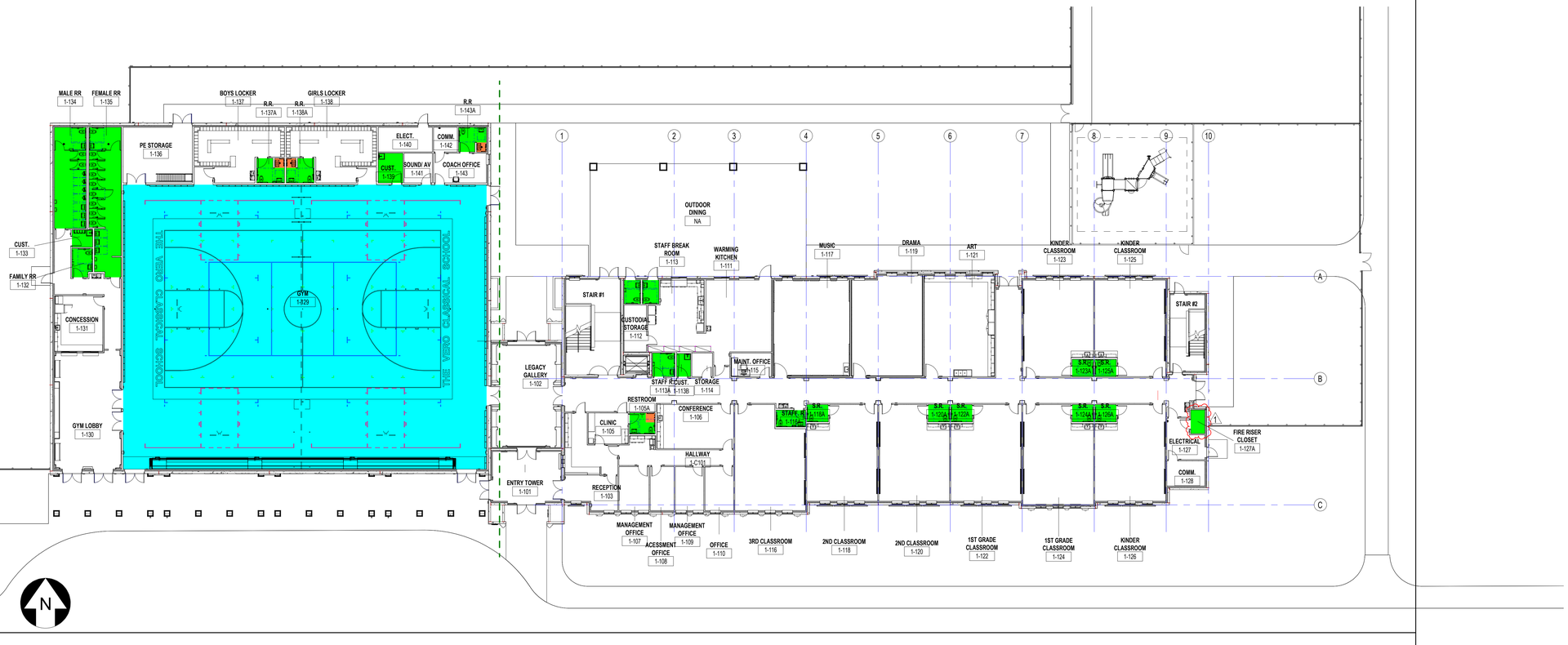


J1 SLAB DEPRESSION PLAN - 2ND FLOOR_OVERALL

1/16" = 1'-0"

SLAB DEPRESSION LEGEND

- 3/4" SLAB DEPRESSION
- 2" SLAB DEPRESSION
- 2-1/2" SLAB DEPRESSION



A1 SLAB DEPRESSION PLAN - 1ST FLOOR

1/16" = 1'-0"

VERO CLASSICAL SCHOOL

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VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

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FLOOR DEPRESSION PLANS

A102

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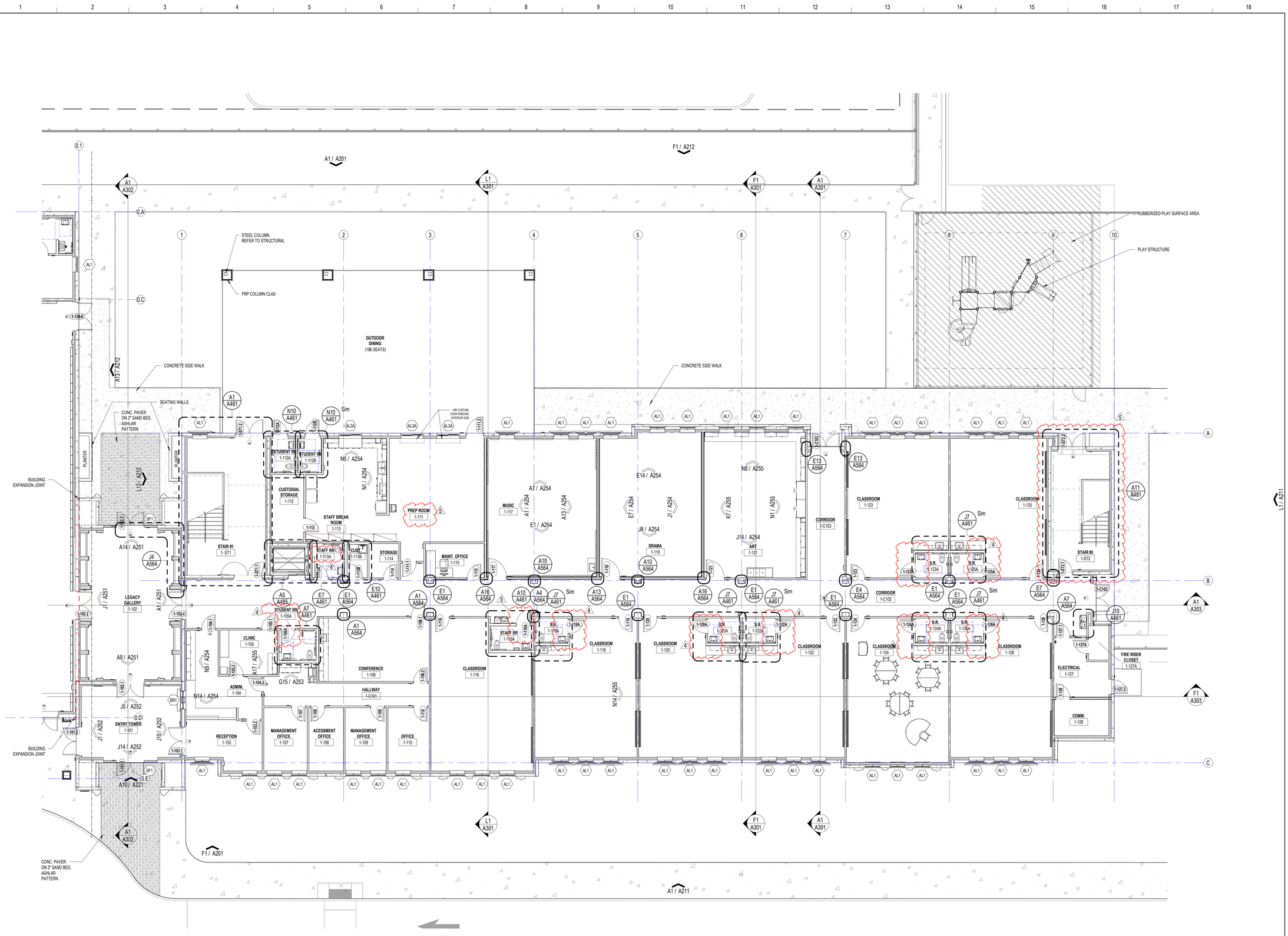

A1	FLOOR PLAN - 1ST FLOOR_AREA A
1/8" = 1'-0"	

6/8/2025 6:20:37 PM
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VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL SCHOOL WEST - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
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4	IRC BUILDING PLUMBING REVIEW COMMENTS	5/12/2025
5	Addendum 04 - IRC BUILDING REVIEW COMMENTS	6/6/2025

AREA B
AREA A
KEYPLAN

COMM. NO.: 2024117
ISSUE DATE: 12/23/2024
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PARTIAL FLOOR PLAN - 1ST FLOOR_AREA A

A111.A
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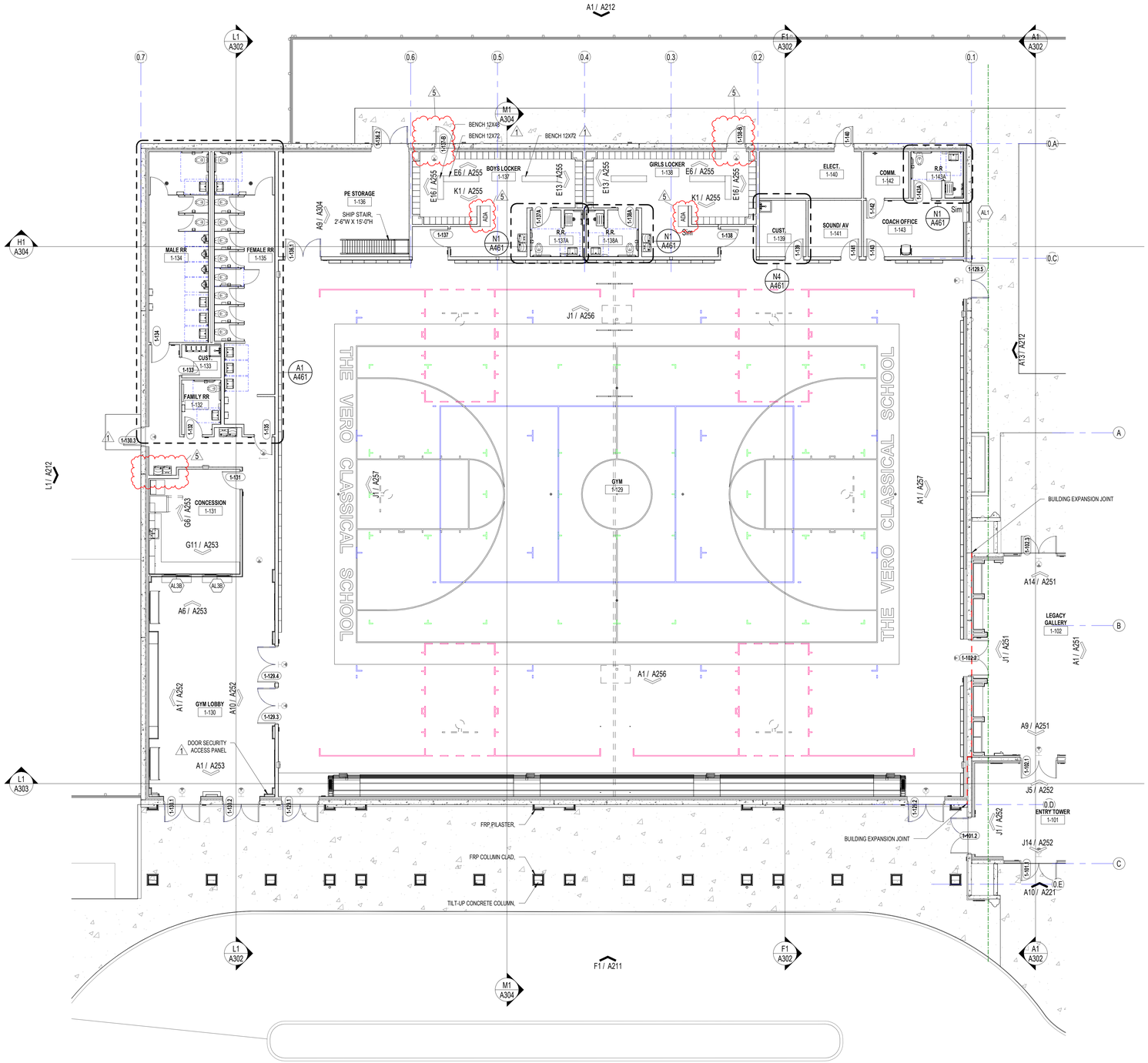

Vero Classical School
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VERO CLASSICAL SCHOOL WEST - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
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1	Addendum 01	01/ 24/ 2025
5	Addendum 04 - IRC BUILDING REVIEW COMMENTS	06/2025

AREA B

AREA A

KEYPLAN

COMM. NO.: 2024117
ISSUE DATE: 12/23/2024
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PARTIAL FLOOR PLAN - 1ST FLOOR_AREA B

A1 | FLOOR PLAN - 1ST FLOOR_AREA B
1/8" = 1'-0"

A111.B
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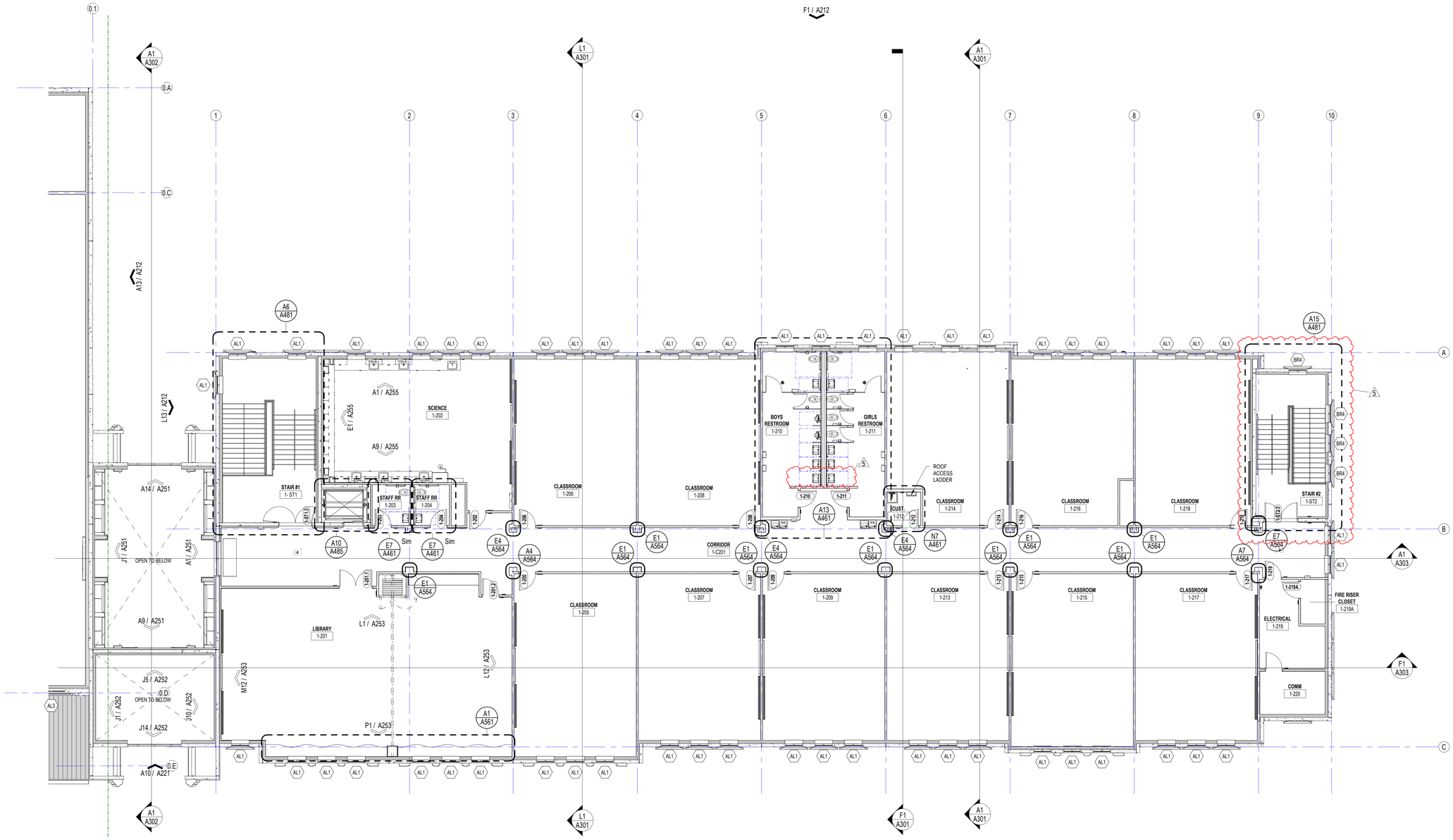

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL SCHOOL WEST - PHASE I

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5	Addendum -04 - IRC BUILDING REVIEW COMMENTS	6/6/2025

AREA B
AREA A
KEYPLAN

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PARTIAL FLOOR PLAN - 2ND FLOOR_AREA A

A112.A
BID/ PERMIT DOCUMENTS

A1
1/8" = 1'-0"

FLOOR PLAN - 2ND FLOOR_AREA A

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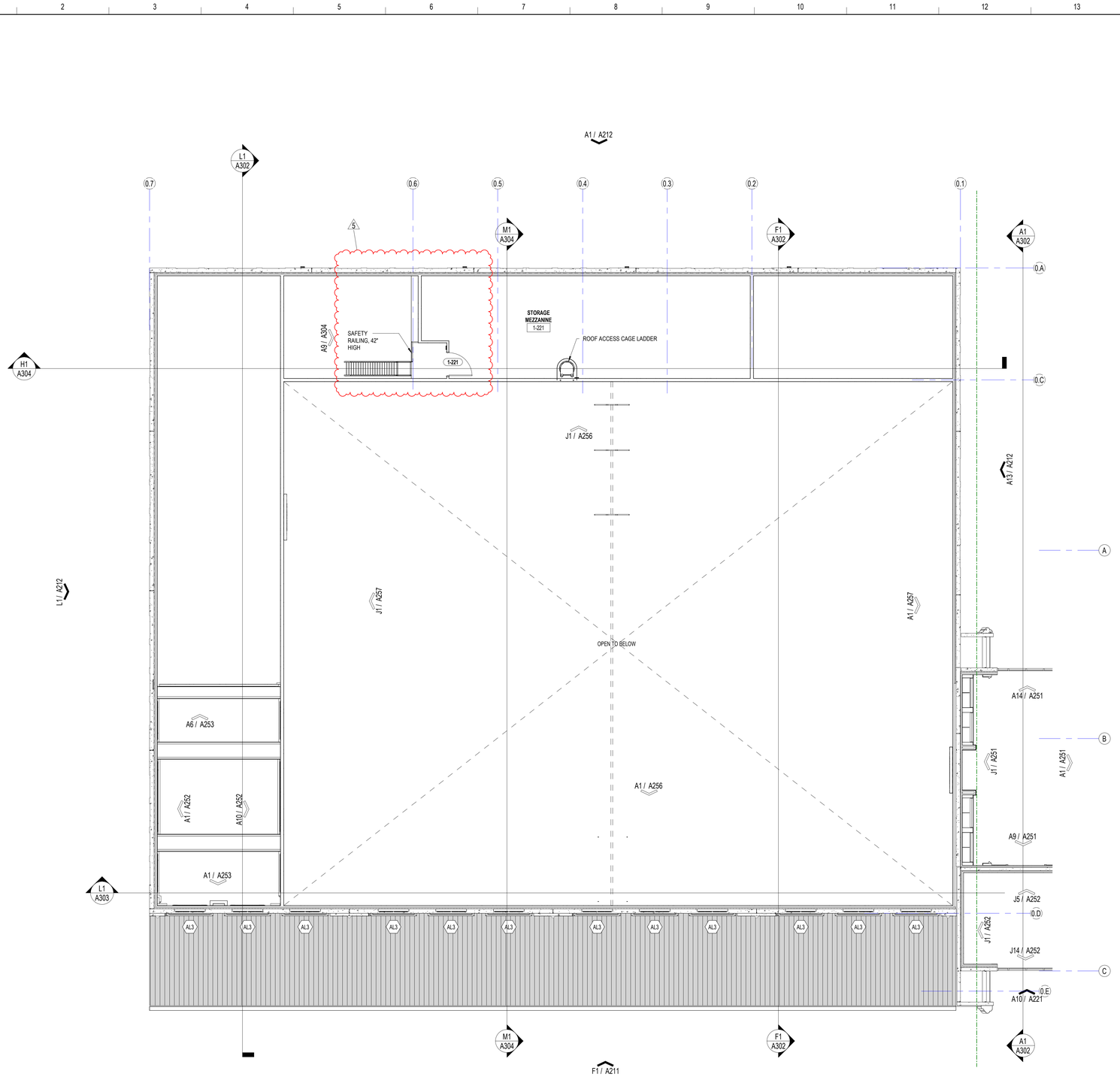

A1 | FLOOR PLAN - 2ND FLOOR_AREA B

1/8" = 1'-0"

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VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL SCHOOL WEST - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
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5	Addendum -04 - IRC BUILDING REVIEW COMMENTS	6/6/2025

AREA B
AREA A
KEYPLAN

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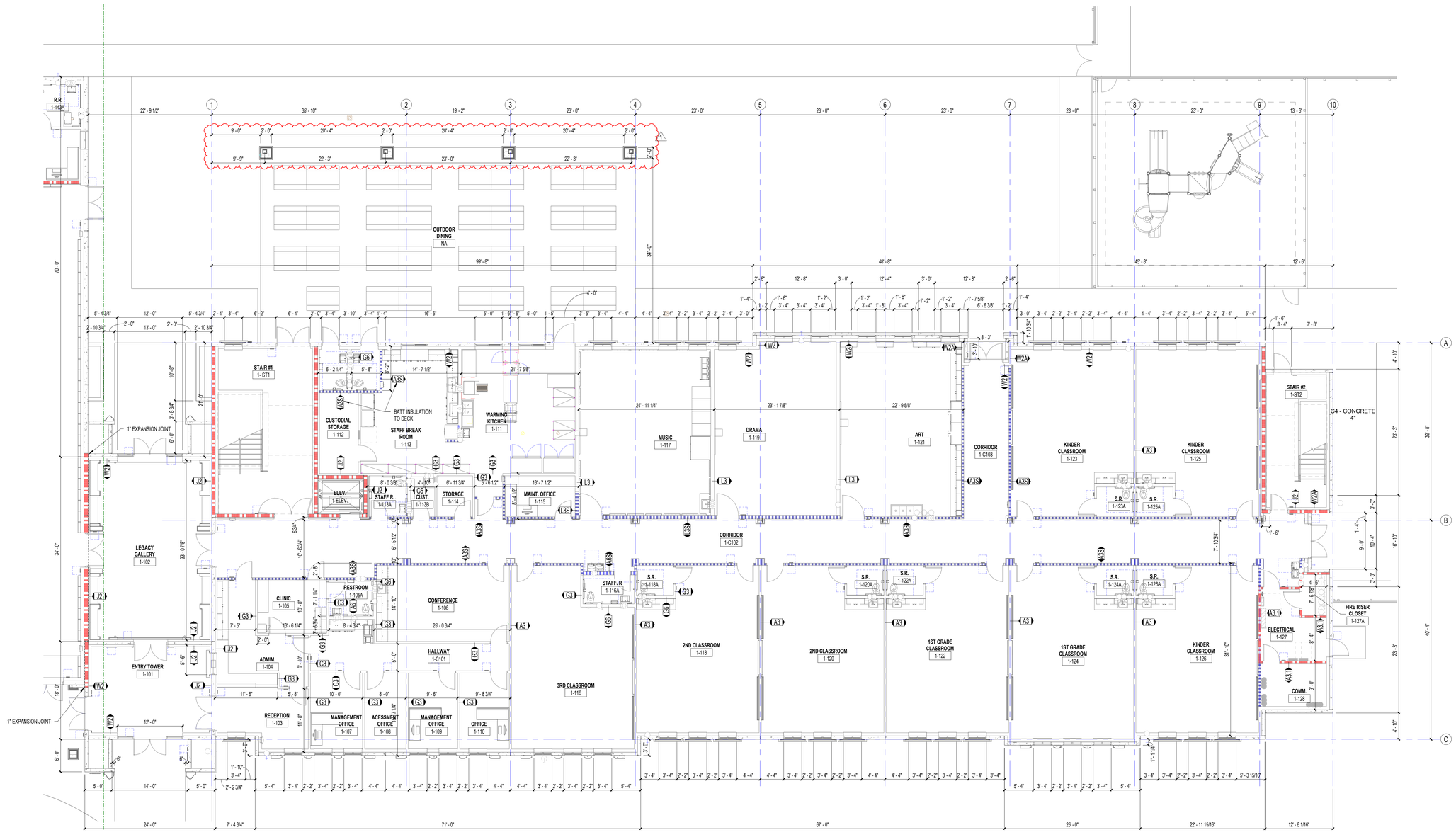
PARTIAL FLOOR PLAN - 2ND FLOOR_AREA B

A112.B
BID/ PERMIT DOCUMENTS

DIMENSION PLAN NOTES

1. ALL STUD PARTITIONS SHALL BE TYPE A3 U.N.O.
2. ALL INTERIOR WALL FURRING TO ABOVE CLG. SHALL BE TYPE E2 U.N.O.
3. ALL EXTERIOR WALL FURRING TO ABOVE CLG. SHALL BE TYPE W2 U.N.O.
4. ALL CMU WALLS SHALL BE F8 U.N.O
5. REFER TO SHEETS G-031 & G-032 FOR TYPICAL PARTITION TYPES.
6. REFER TO SHEETS G-033 & G-034 FOR TYPICAL PARTITION DETAILS.
7. ALL DIMENSIONS ARE TO FACE OF GYPSUM BOARD, COLUMN GRID, FACE OF CMU OR FACE OF TIL-UP.
8. PROVIDE FULL HEIGHT CEMMENTITIOUS PANEL AT WET AREAS ON RESTROOMS, SHOWERS AND CUSTODIALS.
9. REFER TO SHEETS G-031 FOR GYPSUM BD SCHEDULE AND INSULATION SCHEDULE.
10. SLAB RECESSED 3/4" AT ALL RESTROOMS.
11. SLAB RECESSED 2" AT SHOWERS.
12. SLAB RECESSED 2-1/2" AT GYM SPORTS FLOORING.

GRAPHIC PATTERN	WALL RATING
	DENOTES SMOKE PARTITION
	DENOTES 1 HOUR FIRE RATED CONSTRUCTION



AREA B

AREA A

KEYPLAN

A1	DIMMENSIONAL PLAN - 1ST FLOOR_AREA A
1/8" = 1'-0"	

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VERO CLASSICAL SCHOOL

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VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
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DIMENSION PLAN - 1ST FLOOR_AREA A

A121.A
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DIMENSION PLAN NOTES

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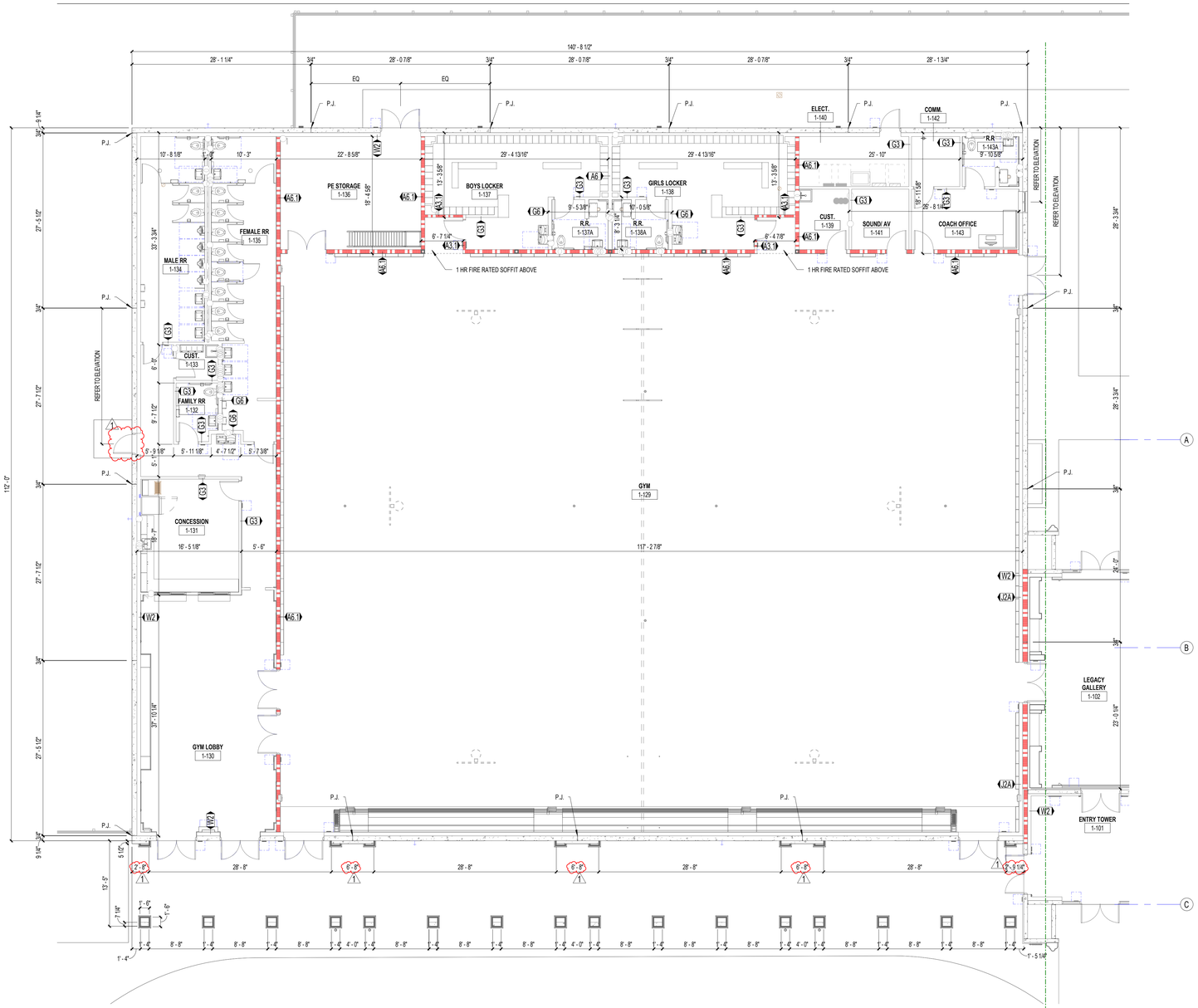
GRAPHIC PATTERN	WALL RATING
	DENOTES SMOKE PARTITION
	DENOTES 1 HOUR FIRE RATED CONSTRUCTION



A1 DIMMENSIONAL PLAN - 1ST FLOOR_AREA B

1/8" = 1'-0"

VERO CLASSICAL SCHOOL

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51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

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AREA B
AREA A
KEYPLAN

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DIMENSION PLAN - 1ST FLOOR_AREA B

A121.B
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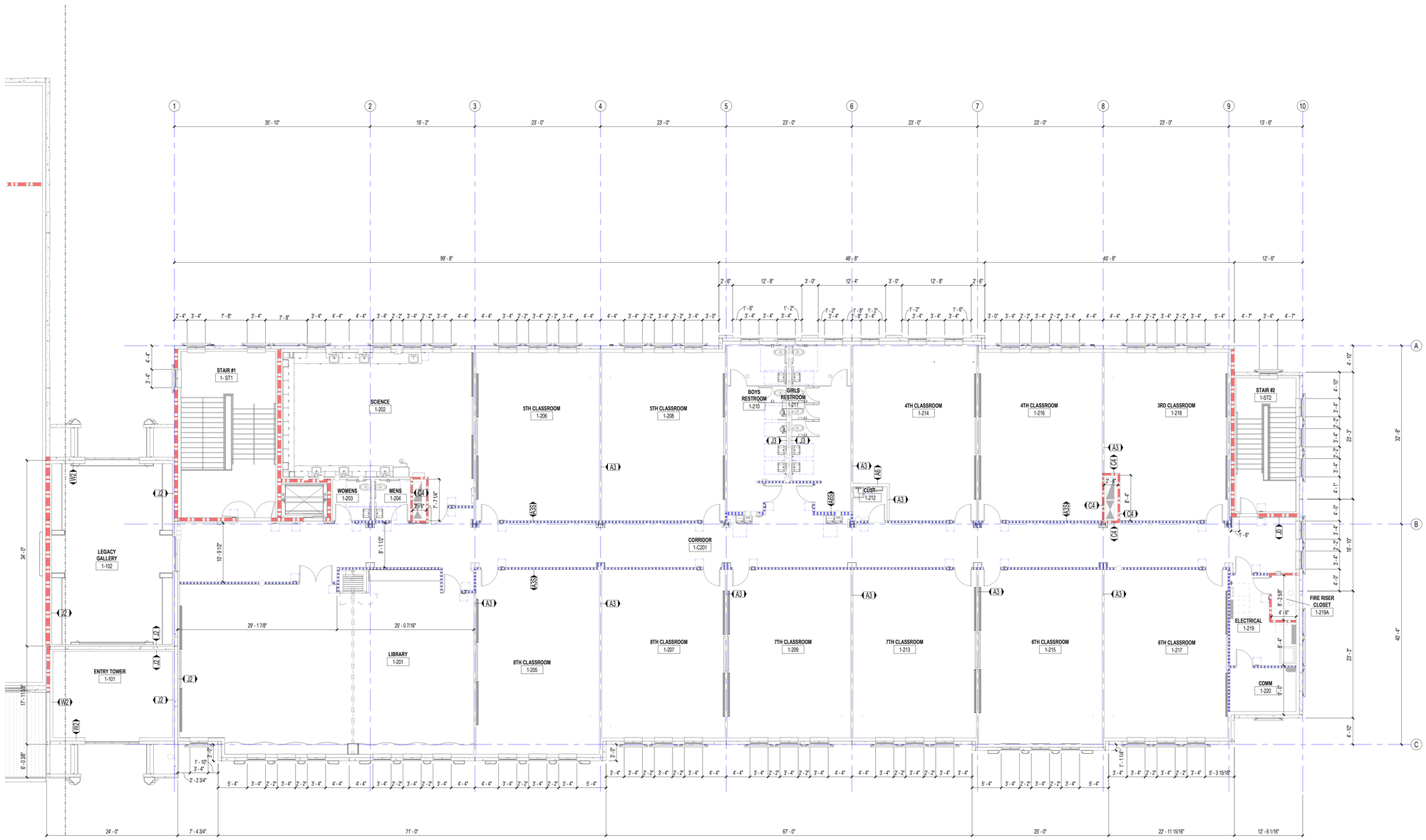
	DENOTES SMOKE PARTITION
	DENOTES 1 HOUR FIRE RATED CONSTRUCTION



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AREA B
AREA A
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DIMENSION PLAN - 2ND FLOOR_AREA A

A1 DIMMENSIONAL PLAN - 2ND FLOOR_AREA A
1/8" = 1'-0"

A122.A
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DIMENSION PLAN NOTES

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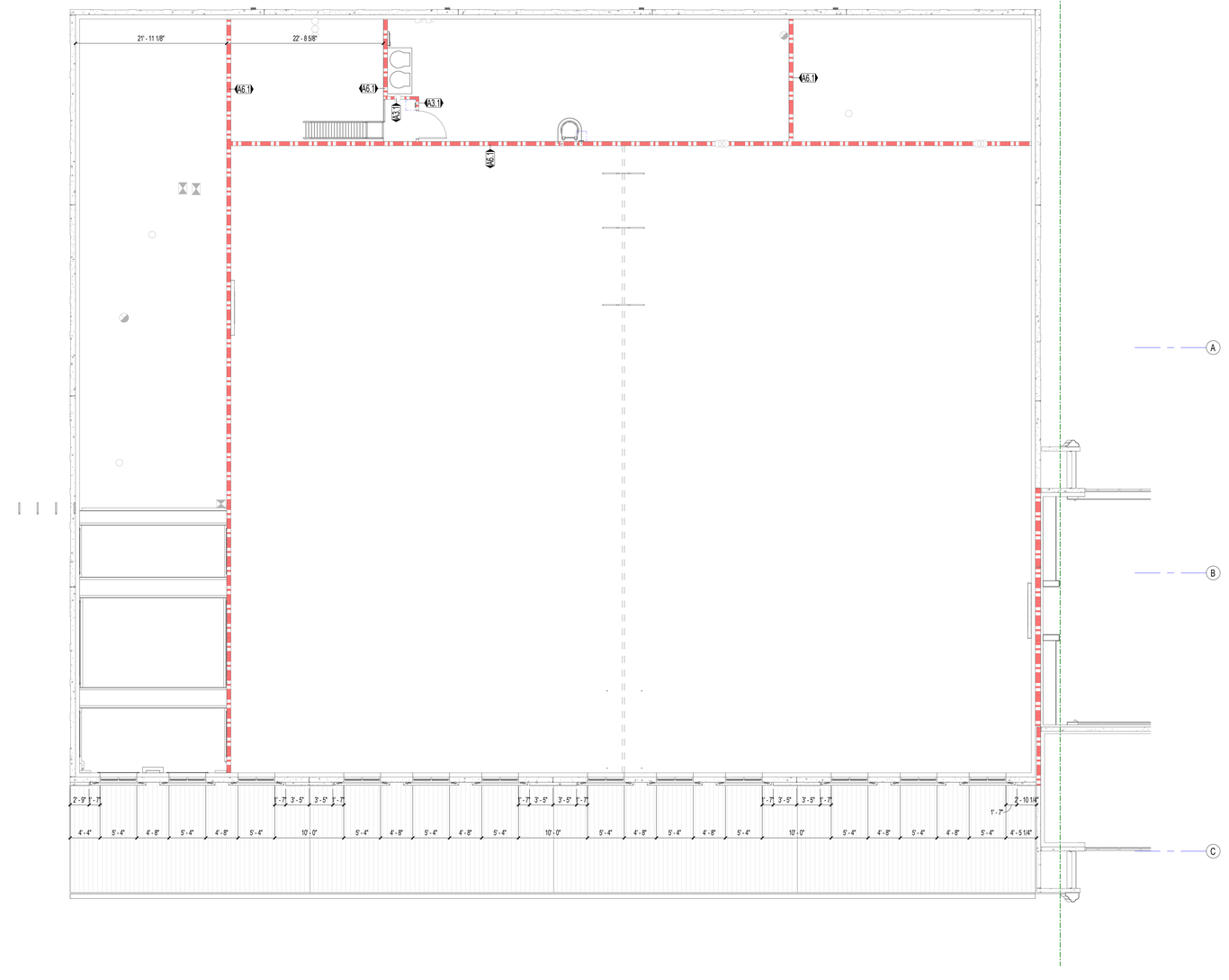
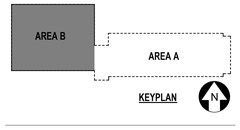
GRAPHIC PATTERN	WALL RATING
	DENOTES SMOKE PARTITION
	DENOTES 1 HOUR FIRE RATED CONSTRUCTION





KEYPLAN

A1 | DIMMENSIONAL PLAN - 2ND FLOOR_AREA B

1/8" = 1'-0"

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VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
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ISSUE DATE: 12/23/2024
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DIMENSION PLAN - 2ND FLOOR_AREA B

A122.B
BID/ PERMIT DOCUMENTS

REFLECTED CEILING LEGEND

INDICATION	DESCRIPTION
○	1 1/2" PENDANT
⊘	RECESSED DOWNLIGHT
○	SURFACE MOUNT DOWNLIGHT
⊗	EXIT SIGN
●	FIRE SPRINKLER
◭	DATA DEVICE
- - - - -	LED LINEAR COVE LIGHT
■ ■ ■ ■	CROWN MOULDING
— · — · —	UNDER CABINET LIGHTING

INDICATION	DESCRIPTION
▭	RECESSED LINEAR LIGHT
▬	LINEAR FIXTURE
▬●	EMERGENCY LINEAR FIXTURE
◱ ◲	CEILING ACCESS PANEL/ BAFFLE PLENUM ACCESS
▭	SUSPENDED LINEAR LIGHT FIXTURE
▬	TRACK LIGHTING
□	2'X2' TROFFER LIGHT
⊡	2'x2' EMERGENCY TROFFER LIGHT
⊠	AIR SUPPLY DIFFUSER

INDICATION	DESCRIPTION
⊠	AIR RETURN DIFFUSER
⊠	EXHAUST
▬	LINEAR AIR SUPPLY DIFFUSER
◨	CAMERA
Ⓢ	SPEAKER
(F) (F)	FIRE ALARM DEVICE
⧓	SMOKE DETECTOR
(OS)	OCCUPANCY SENSOR

INDICATION	DESCRIPTION
✕	CEILING FAN
▯	STANDARD YOKE LIGHT
○	DOWN LIGHTS - HIGH BAY

NOTE: SEE MEP DRAWINGS FOR MORE SYMBOLS

REFLECTED CEILING LEGEND

A1 VARIES	24" x 24" FINE FISSURED, TEGULAR EDGE, 0.70 NRC
A2 VARIES	24" x 24" FRASCH- VIBE COFFER PANELS
C1 VARIES	5/8" GYPSUM BD ON 3-5/8" METAL STUD FRAMING
D1 VARIES	EXTERIOR FINISH SYSTEM ON 5/8" EXTERIOR GYPSUM SHEATHING ON 3-5/8"METAL STUD FRAMING
D2 VARIES	EXTERIOR FINISH SYSTEM ON 5/8" EXTERIOR GYPSUM SHEATHING ON 7/8" HAT CHANNEL FURRING ON SUSPENDED 1 1/2" METAL CHANNEL GRID
F1 VARIES	EXPOSED STRUCTURE
F2 VARIES	EXPOSED STRUCTURE WITH DRYFALL BLACK PAINT
F3 VARIES	EXPOSED STRUCTURE WITH DRYFALL WHITE PAINT
M1 VARIES	METAL CANOPY
T1 VARIES	TECTUM CEILING
A3 VARIES	24" x 24" NON-PERFORATED - VINYL FACED, SQUARE EDGE

CEILING GENERAL NOTES

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2. ALL SOFFITS/CASED OPENINGS ARE TO ALIGN WITH THE FINISHED FACE OF ADJACENT WALLS, U.N.O
3. ALL DEVICES ARE TO BE CENTERED IN CEILING TILES WHERE APPLICABLE, UNLESS NOTED OTHERWISE
4. SEE CONSULTANT DOCUMENTS FOR THE LOCATIONS OF ALL WALL MOUNTED DEVICES. COORDINATE
5. ALIGNMENT OF WALL DEVICES WITH EACH OTHER AND CEILING DEVICES WHERE POSSIBLE.
6. ALIGN DEVICES AS INDICATED WITH CENTERLINES.
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9. ALL STRUCTURE (INCLUDING BOTTOM OF DECK), CONDUIT, HVAC DUCTWORK, EQUIPMENT SUPPORTS, CABLE TRAY, DEVICES, CEILING SUPPORT SYSTEMS, ETC ABOVE OPEN CLG AREAS TO BE PAINTED.
10. ALL SPACES WITH GYPSUM CEILING IN RESTROOM OR WET AREAS SHALL BE MOISTURE RESITANT TYPE. SEE SPECS.
11. ALL STRUCTURE (INCLUDING BOTTOM OF DECK), CONDUIT, HVAC DUCTWORK, EQUIPMENT SUPPORTS, CABLE TRAY, DEVICES, CEILING SUPPORT SYSTEMS, ETC ABOVE OPEN CLG AREAS TO BE PAINTED.

AREA B

AREA A

KEYPLAN

N

A1	RCP -1ST FLOOR_AREA A
1/8" = 1'-0"	

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL SCHOOL WEST - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
VERO BEACH, FLORIDA 32968

SCHENKEL SHULTZ

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Winter Park, FL 32789
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MARK	DESCRIPTION	DATE
1	Addendum- 01	01/ 24/ 2025
5	Addendum -04 IRC BUILDING REVIEW COMMENTS	6/6/2025

COMM. NO.: 2024117
ISSUE DATE: 12/23/2024
DRAWN BY: JL/ CB

RCP - 1ST FLOOR_AREA A

A141.A
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REFLECTED CEILING LEGEND

INDICATION	DESCRIPTION
○	1 1/2" PENDANT
⊘	RECESSED DOWNLIGHT
○	SURFACE MOUNT DOWNLIGHT
⊗	EXIT SIGN
●	FIRE SPRINKLER
◭	DATA DEVICE
- - - - -	LED LINEAR COVE LIGHT
- - - - -	CROWN MOULDING
— · — · —	UNDER CABINET LIGHTING

INDICATION	DESCRIPTION
	RECESSED LINEAR LIGHT
	LINEAR FIXTURE
	EMERGENCY LINEAR FIXTURE
	CEILING ACCESS PANEL/ BAFFLE PLENUM ACCESS
	SUSPENDED LINEAR LIGHT FIXTURE
	TRACK LIGHTING
	2'X2' TROFFER LIGHT
	2'x2' EMERGENCY TROFFER LIGHT
	AIR SUPPLY DIFFUSER

INDICATION	DESCRIPTION
	AIR RETURN DIFFUSER
	EXHAUST
	LINEAR AIR SUPPLY DIFFUSER
	CAMERA
(S)	SPEAKER
(F) (F)	FIRE ALARM DEVICE
	SMOKE DETECTOR
(OS)	OCCUPANCY SENSOR

INDICATION	DESCRIPTION
	CEILING FAN
	STANDARD YOKE LIGHT
	DOWN LIGHTS - HIGH BAY

NOTE: SEE MEP DRAWINGS FOR MORE SYMBOLS

REFLECTED CEILING LEGEND

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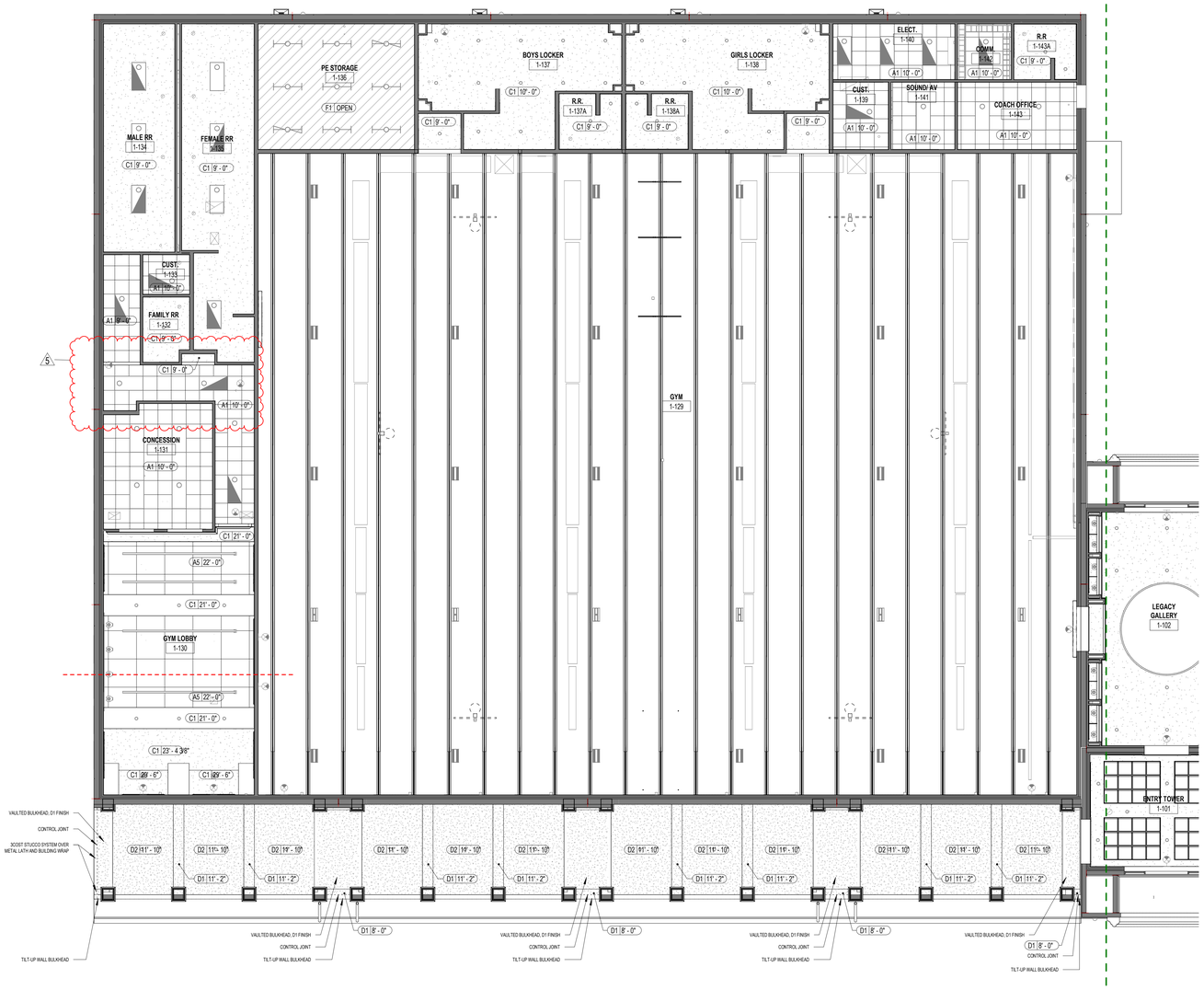

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5	Addendum -04 - IRC BUILDING REVIEW COMMENTS	6/6/2025

AREA B
AREA A
KEYPLAN

COMM. NO.: 2024117
ISSUE DATE: 12/23/2024
DRAWN BY: JL/ CB

RCP - 1ST FLOOR_AREA B

A1
1/8" = 1'-0"

RCP -1ST FLOOR_AREA B

A141.B
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⊠	EXHAUST
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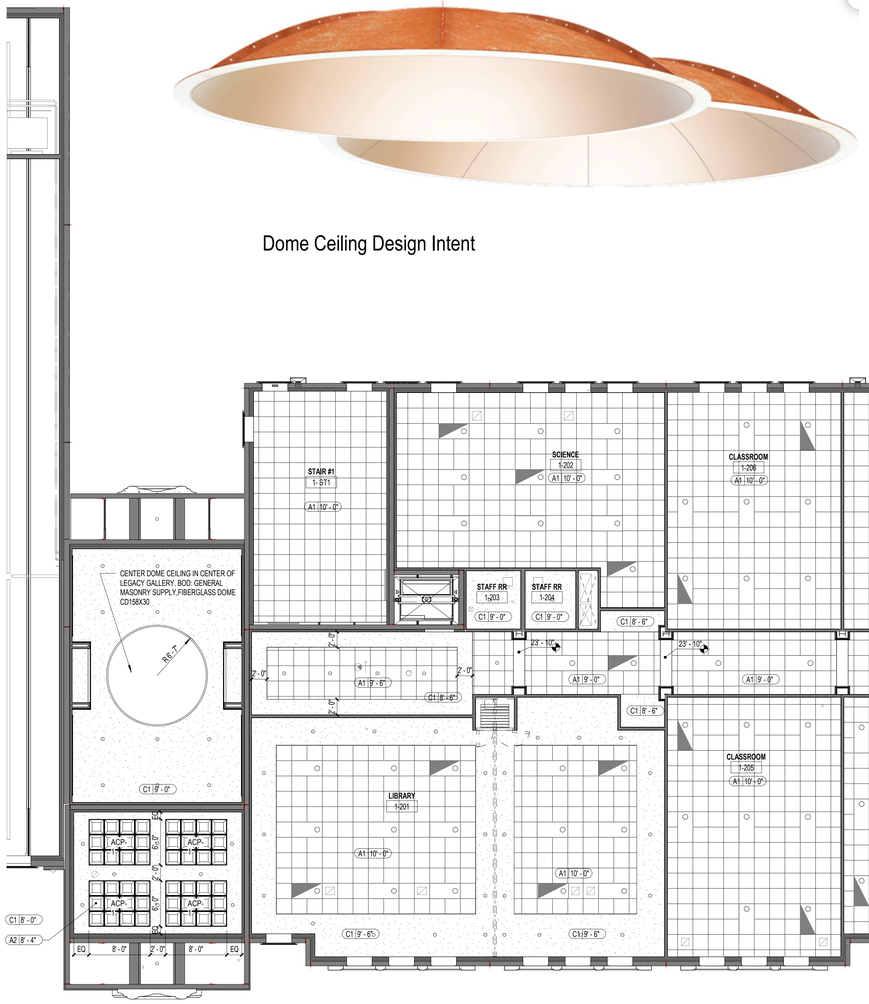
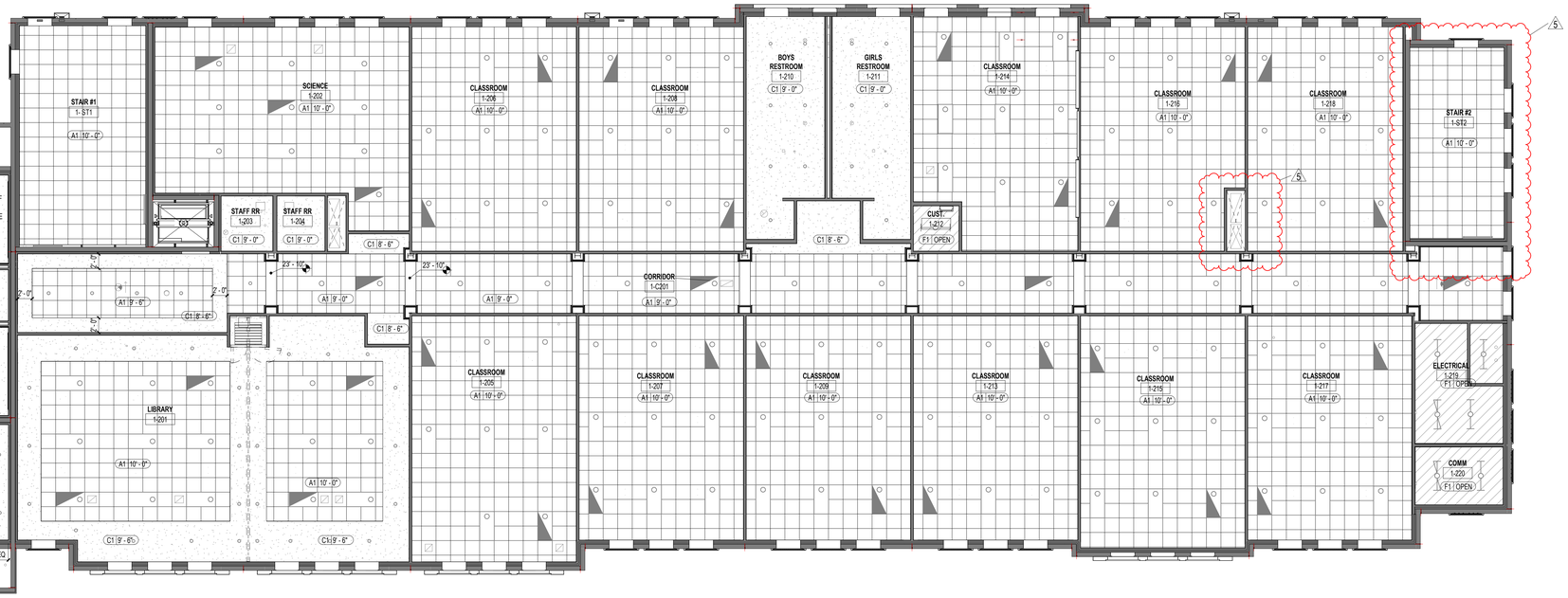
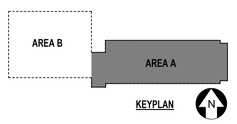


Dome Ceiling Design Intent





KEYPLAN

A1	RCP - 2ND FLOOR_AREA A
1/8" = 1'-0"	

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COMM. NO.: 2024117
ISSUE DATE: 12/23/2024
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RCP - 2ND FLOOR_AREA A

A142.A
BID/ PERMIT DOCUMENTS

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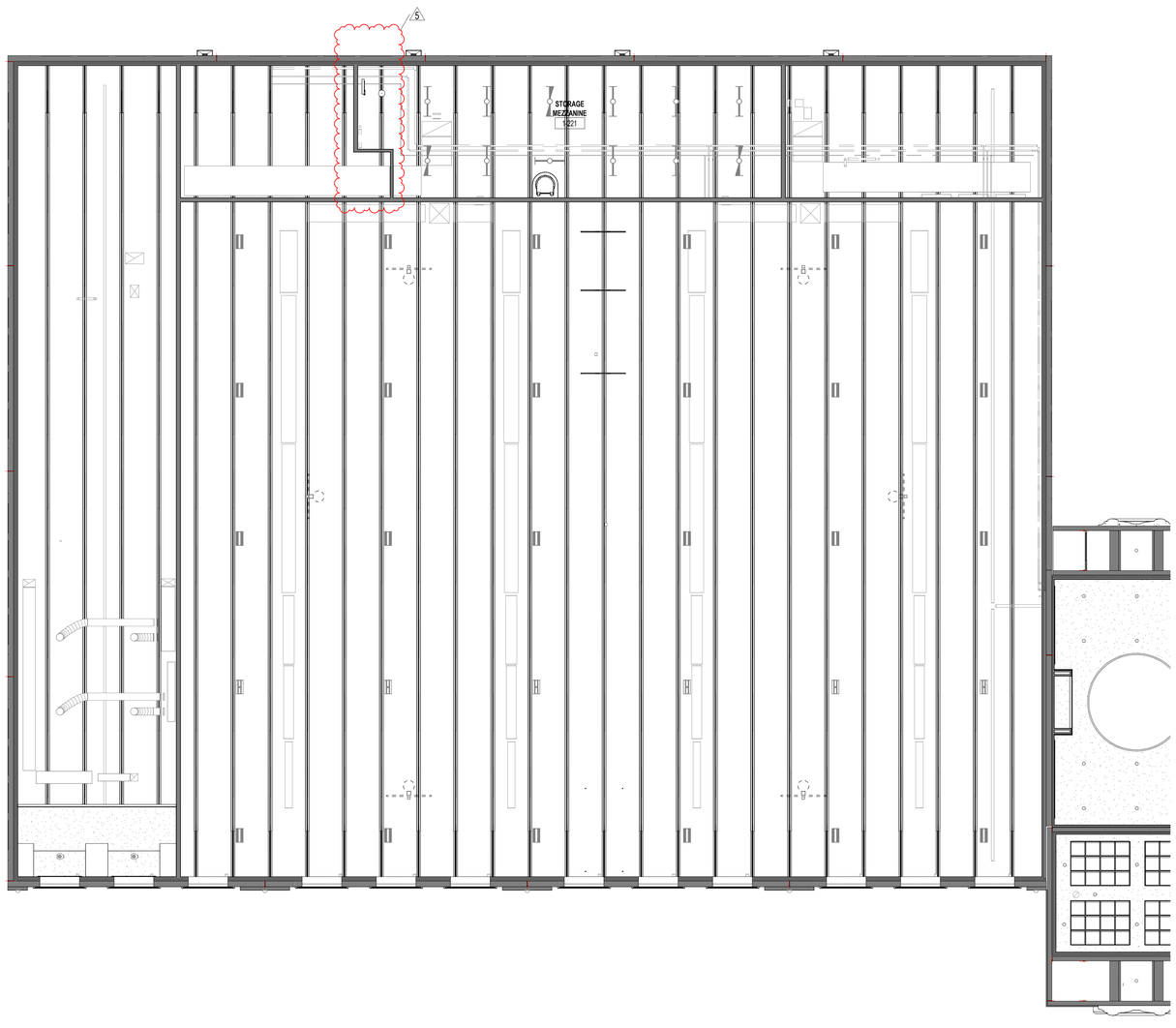

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A1 | RCP - 2ND FLOOR_AREA B

1/8" = 1'-0"

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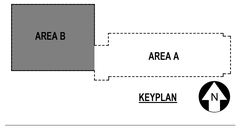

KEYPLAN

COMM. NO.: 2024117
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DRAWN BY: JL/ CB

RCP - 2ND FLOOR_AREA B

A142.B
BID/ PERMIT DOCUMENTS

GENERAL NOTES:

1. PROVIDE MANUF. STANDARD DETAILS FOR ROOF PENETRATIONS
2. SEE. MECH & PLUMBING EQUIP. PLANS FOR EXTENT OF ROOFTOP EQUIPMENT, CURBS, VENTS, PIPES, AND CONDUITS PENETRATING THE ROOF.
3. PROVIDE CRICKETS TO PROVIDED POSITIVE DRAINAGE AROUND ALL ROOF TOP EQUIPMENT AND HATCHES. CRICKETS SHALL SLOPE AT 1/2" PER FT. MINIMUM.
4. OVERFLOW SCUPPERS (O.S.) SHALL BE INSTALLED WITH EACH CONDUCTOR HEAD AND DOWNSPOUT (CH/DS) UNLESS NOTED OTHERWISE.
5. PROVIDE CONCRETE SPLASH BLOCKS WHERE DOWNSPOUTS DISCHARGE ONTO ROOF BELOW.
6. COORDINATE TILT-WALL OPENINGS WITH SCUPPER REQUIREMENTS.
7. COORDINATE WALL MTD. ITEMS WITH EXTERIOR ELEVATIONS.
8. COORDINATE ALL ROOF DRAINAGE WITH CIVIL.
9. ALL WALK PADS SHALL BOUND THE PERIMETER OF ROOF MTD. EQUIPMENT AND ROOF HATCHES A MINIMUM OF 4'-0" ON EACH SIDE. INSTALL WALK PADS SUCH THAT CROSS DRAINAGE IS NOT IMPEDED.
10. REFER TO A-55# SERIES DRAWINGS FOR ROOF DETAILS. REFER TO WALL SECTIONS & DETAILS FOR ADDITIONAL ROOF DETAILING. ALUMINUM CANOPIES PROVIDED FOR REFERENCE ONLY.
11. REFER TO A553 & A554 FOR ROOF LADDER DETAILS.
12. CONDUCTOR HEAD/DOWNSPOUT LOCATIONS TO BE COORDINATED WITH EXTERIOR ELEVATIONS.

ROOF LEGEND

SYMBOL	DESCRIPTION
O.S.	OVERFLOW SCUPPER
D.S.	ALUMINUM DOWNSPOUT
CH/DS	CONDUCTOR HEAD AND DOWNSPOUT
R.D.	ROOF DRAIN
O.D.	OVERFLOW ROOF DRAIN
	SMOKE VENT 5'-0" X 6'-0"
R.H.	36" x 36" ROOF HATCH WITH TELESCOPING SAFETY BAR
R.H.	30" x 54" ROOF HATCH WITH TELESCOPING SAFETY BAR
RAL.	ROOF ACCESS LADDER
G/DS	GUTTER WITH SQUARE DOWNSPOUT
G/DS	GUTTER WITH ROUND DOWNSPOUT
	TOP OF WALL SEE STRUCT. AND EXTERIOR ELEVATIONS

STORM DRAINAGE ROOF CALCULATIONS

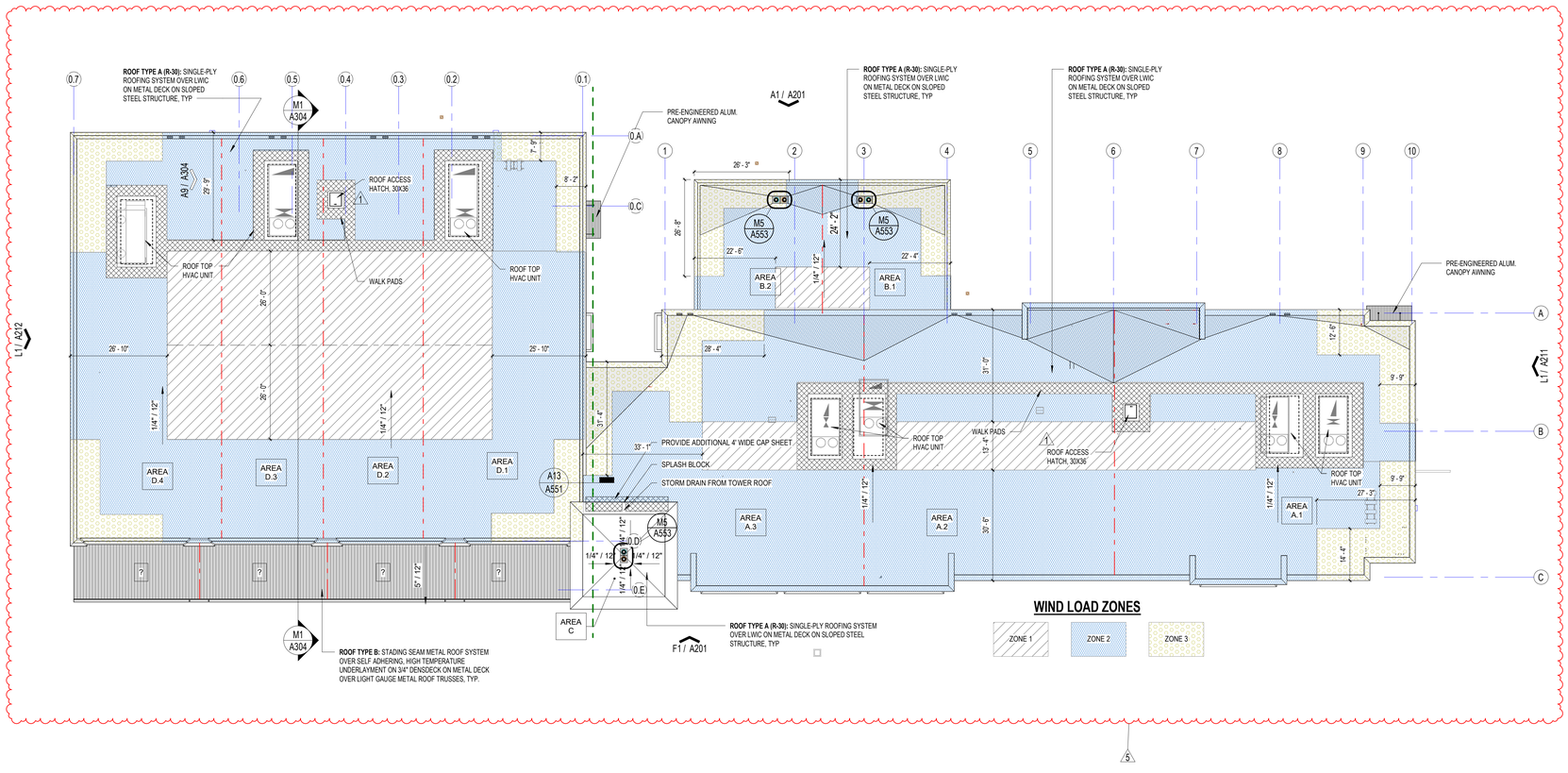
ROOF	AREA	50% OF WALL AREA	TOTAL AREA (AREA + ROOF CALC HALF WALL ARE)	FACTOR	RAIN FACTOR	GPM	FROM TABLE 1106.3 VERTICAL LEADER SIZING (INCHES)	PROVIDED LEADER	PROVIDED ROOF SLOPE	TABLE 1106.6 HORIZONTAL GUTTER SIZING	ROOF CALC PROVIDED GUTTER - SLOPE	COMMENTS
AREA A.1	5813 SF	523 SF	6336 SF	0.0104	4.5	296.5	5" -or- 4 X 5" -or- 4 1/2 X 4 ½"	6 X 6"	1/4" PER FOOT	(10") - (1/16 SLOPE)	NA	
AREA A.2	5073 SF	333 SF	5406 SF	0.0104	4.5	253.0	5" -or- 4 X 5" -or- 4 1/2 X 4 ½"	6 X 6"	1/4" PER FOOT	(10") - (1/16 SLOPE)	NA	
AREA A.3	4974 SF	733 SF	5707 SF	0.0104	4.5	267.1	5" -or- 4 X 5" -or- 4 1/2 X 4 ½"	6 X 6"	1/4" PER FOOT	(10") - (1/16 SLOPE)	NA	
AREA B.1	1205 SF	770 SF	1975 SF	0.0104	4.5	92.4	4" -or- 3 X 4 ½" -or- 3 1/2 X 4"	SEE PLUMBING	1/4" PER FOOT	(4 X 2 ½") - (1/4 SLOPE)	NA	
AREA B.2	1208 SF	770 SF	1978 SF	0.0104	4.5	92.6	4" -or- 3 X 4 ½" -or- 3 1/2 X 4"	SEE PLUMBING	1/4" PER FOOT	(4 X 2 ½") - (1/4 SLOPE)	NA	
AREA C	520 SF	184 SF	704 SF	0.0104	4.5	32.9	2 ½" -or- 2 ½ X 2 ½"	SEE PLUMBING	1/2" PER FOOT	(4") - (1/8 SLOPE)	NA	
AREA D.1	4783 SF	354 SF	5137 SF	0.0104	4.5	240.4	5" -or- 4 X 5" -or- 4 1/2 X 4 ½"	6 X 6"	1/4" PER FOOT	(8") - (1/8 SLOPE)	NA	
AREA D.2	3045 SF	84 SF	3129 SF	0.0104	4.5	146.5	4" -or- 3 X 4 ½" -or- 3 1/2 X 4"	6 X 6"	1/4" PER FOOT	(3 X 3 ½") - (1/2 SLOPE)	NA	
AREA D.3	3108 SF	84 SF	3192 SF	0.0104	4.5	149.4	4" -or- 3 X 4 ½" -or- 3 1/2 X 4"	6 X 6"	1/4" PER FOOT	(3 X 3 ½") - (1/2 SLOPE)	NA	
AREA D.4	4431 SF	286 SF	4717 SF	0.0104	4.5	220.7	5" -or- 4 X 5" -or- 4 1/2 X 4 ½"	6 X 6"	1/4" PER FOOT	(3 X 5") - (1/2 SLOPE)	NA	
	34161 SF					1791.6						

ROOF DRAINAGE CALCULATIONS

CITY OF VERO BEACH, FL
Rainfall Rate per IBC: (100 YEAR OF RAINFALL IN INCHES PER HOUR)
4.5 INCHES PER HOUR
VERTICAL LEADER PIPE SIZE IN PROJECT:
VARIES, SEE ROOFS PLAN

EQUATION:
GALLONS PER MIN = (Rain inch x 1 hr x Area) x 7.48 (gallons of water per cubic feet)
12 (in ft) 60 min

***GALLONS PER MIN = 0.0104 (conversion factor) X R (inches per rain) x A (area)**



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MARK	DESCRIPTION	DATE
1	Addendum -01	01/ 24/ 2025
5	Addendum -04 : IRC BUILDING REVIEW COMMENTS	6/6/2025

COMM. NO.: 2024117
ISSUE DATE: 12/23/2024
DRAWN BY: JL

ROOF PLAN

A1
1/16" = 1'-0"

OVERALL ROOF PLAN

A151
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6/6/2025 6:20:18 PM
Autodesk Docs://2024117 Vero Classical School/2024117-VERO CLASSICAL SCHOOL-A-R2025.rvt

INTERIOR FINISHES

FINISH CODE	MANUFACTURER	MODEL / STYLE	COLOR	SIZE	FLAME SPREADING RATE	REMARKS
ACOUSTICAL CEILING PANEL						
ACP-1	FRASCH	VIBE COFR	44 IVORY	24x24"	CLASS I	
ACOUSTICAL WALL PANEL FABRIC						
AWP-1	GUILFORD OF MAINE	TBD	TBD	3'W X 3'H	CLASS I	MUSIC RM, DRAMA RM, AND ART RM
AWP-2	GUILFORD OF MAINE	TBD	TBD	3'W X 3'H	CLASS I	MUSIC RM, DRAMA RM, AND ART RM
AWP-3	NATIONAL WALLCOVERING	TBD	PRINTED GRAPHIC	VARIES-SEE ELEVATION	CLASS I	GYM LOBBY
AWP-4	NATIONAL WALLCOVERING	TBD	TBD	VARIES	CLASS I	ELEVATOR
AWP-5	GUILFORD OF MAINE	TBD	TBD	VARIES	CLASS I	BACK OF BENCHES AT
AWP-6	GUILFORD OF MAINE	TBD	TBD	VARIES	CLASS I	AT LEGACY GALLERY, ENTRY TOWER AND GYM LOBBY
CARPET TILE						
CPT-1	TARKETT	FALLOW GROUND	CANDLELIT GRAY	18" X 36"	CLASS I	RECEPTION, OFFICES, CONFERENCE ROOM
CPT-2	INTERFACE	HUMAN CONNECTIONS	MOSS- GRANITE /EDGE 8340001	50CM X 50CM	CLASS I	LIBRARY
CPT-3	INTERFACE	HUMAN CONNECTIONS	MOSS IN STONE-GRANITE/MOSS 8341001	50CM X 50CM	CLASS I	LIBRARY ACCENT
CPT-4	INTERFACE	HUMAN CONNECTIONS	KERBSTONE-GRANITE 8339001	50CM X 50CM	CLASS I	MUSIC
CONCRETE						
SCS	SIKA	FORMULA ONE	STAINED / POLISHED CONCRETE	N/A	CLASS I	2 MED REFLECTANCY
SCS-2	SIKA	FORMULA ONE	SEALED CONCRETE	N/A	CLASS I	2 MED REFLECTANCY
LUXURY VINYL TILE						
LVT-1	TARKETT	ID LATITIUDE	TBD		CLASS I	COACH OFFICE AND GYM FLOORING
MISCELLANEOUS						
MISC-1	TILE MOSAIC MEDALLIONS	PORCELAIN TILE CLASSIC COMPASS ROSE MOSAIC MEDALLION W/ LETTERING	TBD	72" DIAMETER		GALLERY FLOOR ACCENT
MISC-2	FIL DOUX	VINYL FABRIC	TBD			AT LIBRARY BENCH
MISC-3	FIL DOUX	VINYL FABRIC	TBD			AT GALLERY BENCH
PAINT - EPOXY						
PTE-1	SHERWIN WILLIAMS	SW 7012	CREAMY	N/A	CLASS I	RESTROOMS, WET AREAS, AND GYM AS NOTED
PTE-2	SHERWIN WILLIAMS	SW 7541	GRECIAN IVORY	N/A	CLASS I	RESTROOMS, WET AREAS, AND GYM AS NOTED
PTE-3	SHERWIN WILLIAMS	SW 6808	CELESTIAL BLUE	N/A	CLASS I	RESTROOMS, WET AREAS, AND GYM AS NOTED
PAINT - LATEX, LOW VOC						
PTL-1	SHERWIN WILLIAMS	SW 7012	CREAMY	N/A	CLASS I	FIELD PAINT COLORWAY. TYPICAL THROUGHOUT U.N.O.
PTL-2	SHERWIN WILLIAMS	SW 7541	GRECIAN IVORY	N/A	CLASS I	ACCENT PAINT COLORWAY
PTL-3	SHERWIN WILLIAMS	SW 9550	MERCURIAL	N/A	CLASS I	ACCENT PAINT COLORWAY
PTL-4	SHERWIN WILLIAMS	SW 7742	AGATE GREEN	N/A	CLASS I	ACCENT PAINT COLORWAY
PTL-5	SHERWIN WILLIAMS	SW 6808	CELESTIAL	N/A	CLASS I	ACCENT PAINT COLORWAY
PTL-6	SHERWIN WILLIAMS	SW 9176	DRESS BLUES	N/A	CLASS I	ACCENT PAINT COLORWAY
PLASTIC LAMINATES						
PL-1	WILSONART	BELLAIR	B234K-05	N/A	CLASS I	ENTRY AND LEGACY GALLERY
PL-2	FORMICA	CAMEL ELM	5795-NG	N/A	CLASS I	CASEWORK CLASSROOMS/ STORAGE (UPPER CABINETS AS NOTED)
PL-3	FORMICA	BEIGE ELM	5794-NG	N/A	CLASS I	CASEWORK CLASSROOMS/ STORAGE (LOWER CABINETS AS NOTED)
PL-4	FORMICA	TBD	TBD	N/A	CLASS I	COUNTERS/BACKSPLASHES IN DRY LOCATIONS AS NOTED
PORCELAIN FLOOR TILE						
PFT-1	TRINITY TILE	ADORA	WHITE ONYX	24X48	CLASS 1	ENTRY,LEGACY GALLERY, AND GYM ENTRY
PFT-2	TRINITY TILE	ADORA	GREY ONYX	12X24	CLASS 1	ENTRY, LEGACY GALLERY, AND GYM ENTRY
PFT-3	TRINITY TILE	BLAIRE	TBD	12X24	CLASS 1	RESTROOM FLOORING
PFT-4	TRINITY TILE	BLAIRE	TBD	2X2"	CLASS 1	RESTROOM SHOWER FLOORING
PORCELAIN WALL BASE						
PWB-1	TRINITY TILE	ADORA	WHITE ONYX		CLASS 1	6" H WALL BASE
PWB-2	TRINITY TILE	BLAIR	TBD		CLASS 1	CUT TO 6" H- WALL BASE AT RR WITH FINISH TRIM
PORCELAIN WALL TILE						
PWT-1	TRINITY TILE	BLAIR	TBD	12x24	CLASS 1	RESTROOMS
PWT-2	TRINITY TILE	BLAIRE	TBD	12x24	CLASS 1	RESTROOMS and WATER FOUNTAINS
PWT-3	TRINITY TILE	BLAIRE	TBD	TBD	CLASS 1	SHOWERS
QUARTZ						
QTZ-1	WILSONART	CLOUDS REST	Q4049	2CM EASED PROFILE	CLASS I	RECEPTION DESK
RESINOUS COUNTER TOPS						
EPR-1	WILSONART	DURCON-EPOXY RESIN COUNTER	BLACK ONYX- BEVELED EDGE	1 INCH THICKNESS	CLASS A	SCIENCE ROOM COUNTER TOPS
RESINOUS FLOORING						
EPX-1	SHERWIN WILLIAMS FLOORING	DECO FLAKE RESIN SYSTEM	GROUND HAZELNUT	1/4" THICKNESS	CLASS I	LOCKER ROOM AND KITCHEN/BREAK FLOORING WITH 6" INTEGTRAL BASE
SOLID SURFACE						
SS-1	WILSONART	CHILLED EARTH	9228SS		CLASS I	COUNTER TOPS AT WET AREAS
TOILET PARTITION						
TP-1	SCRANTON	HINY HIDERS	TBD		CLASS B	GROUP RESTROOMS
TRANSITION TRIM						
TR-1	SCHLUTER SYSTEMS	JOLLY	TBD		CLASS I	FINISH TILE EDGE
TR-2	SCHLUTER SYSTEMS	DILEX-EHK	TBD		CLASS I	COVE AT RESTROOMS
TR-3	SCHLUTER SYSTEMS	RENO	TBD		CLASS I	TILE TO EPOXY OR SEALED CONCRETE
TR-4	SCHLUTER SYSTEMS	COVE	TBD		CLASS I	WALL TILE TO SEALED CONCRETE
TR-5	SCHLUTER SYSTEMS	JOLLY G60	GREY	TBD	CLASS 1	CAPPING FOR 4" EPOXY COVE BASE. LOCKER ROOMS
VINYL WALL BASE						
VB-1	TARKETT/ JOHNSONITE	4" TRAD PROFILE	TBD	4"H	CLASS I	TYPICAL THROUGHOUT U.N.O.
VB-2	TARKETT/ JOHNSONITE	VENTED COVE BASE	TBD	4"H	CLASS I	GYMNASIUM BASE
VB-3	TARKETT/ JOHNSONITE	MILLWORK INFLECTIONS	TBD	6"H	CLASS I	CONFERENCE ROOM, OFFICES AND CORRIDORS
WALL PROTECTION						
WP-1	INPRO	CORNER GUARD	TBD	2"X 4' H	CLASS I	ALL EXPOSED OUTSIDE DRYWALL CORNERS U.NO.
WP-2	BY GC	CORNER GUARD	STAINLESS STEEL	3"X 6-8' H	CLASS I	ALL EXPOSED OUTSIDE CORNERS IN FOOD SERVICE AND PANTRY
WP-3	MARLITE	SYMMETRIX TILE FRP PANELS	SYM SS917-SKY-G63-PS WHITE/GREY SUBWAY	3"X 6-8' H	CLASS I	FOOD SERVICE AND PANTRY AS NOTED
WP-4	INPRO	PALLADIUM RIGID SHEETS	PATTERN AND COLOR TBD		CLASS I	AT GYM LOBBY

INTERIOR FINISHES

FINISH CODE	MANUFACTURER	MODEL / STYLE	COLOR	SIZE	FLAME SPREADING RATE	REMARKS
WALLCOVERING						
WC-1	KOROSEAL	VINYL WALLCOVERING	TBD		CLASS I	AT LIBRARY ACCENT WALL
WC-2	KOROSEAL	VINYL WALLCOVERING	TBD		CLASS I	AT LOBBY DOME
WC-3	KOROSEAL	VINYL WALLCOVERING	TBD		CLASS I	AT CONFERENCE ROOM
WOOD						
WD-1	BY GC	BASEBOARD MOULDING	PAINTED	10" H	CLASS I	AT ENTRY/ GALLERY
WD-2	BY GC	CHAIR RAIL MOULDING	PAINTED	3" H	CLASS I	AT ENTRY AND CORRIDORS
WD-3	BY GC	PANEL MOULDING	PAINTED	4" H	CLASS I	AT ENTRY/ GALLERY AND GYM LOBBY
WD-4	BY GC	CASING	PAINTED	4" H	CLASS I	
WD-5	BY GC	CROWN MOULDING	PAINTED	5"	CLASS I	AT ENTRY,GALLERY,GYM LOBBY
WD-6	BY GC	CROWN MOULDING	PAINTED	3"	CLASS I	AT CORRIDORS
WD-7	BY GC	PICTURE MOULDING	PAINTED	3"	CLASS 1	AT ENTRY/ GALLERY
WD-8	ROBBINS 1ST	BIO CUSHION CLASSIC	SEE SPECS	SEE SPECS	CLASS I	GYM FLOORING. WOOD #2 GRADE
WD-9	VT INDUSTRIES	SELECT WHITE BIRCH	CLEAR, CL 18	VARIES	CLASS I	INTERIOR DOOR VENEER

DIMENSION PLAN NOTES

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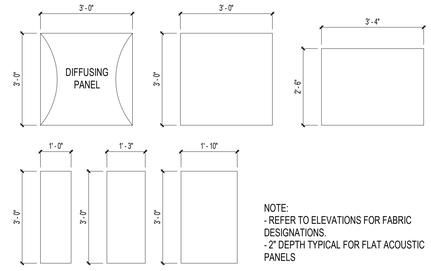
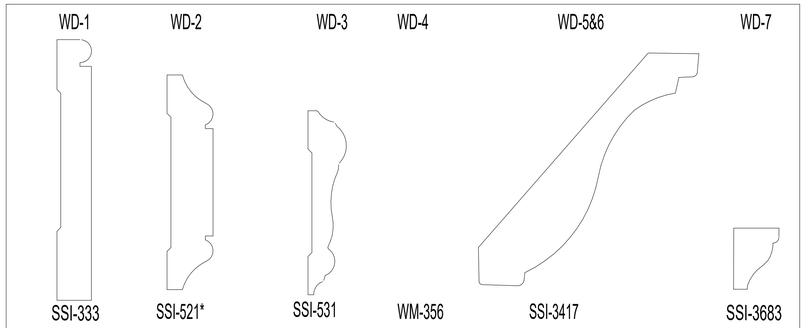
2. ALL FLOORING SHOULD BE WALL TO WALL AND UNDER ALL CASEWORK AND CABINETRY SHOWN ON PLANS U.O.N.
3. ALL FLOORING TRANSITIONS WHERE TO FLOORING TYPES MEET, BOTH TO BE CENTERED WITHIN ALL DOOR FRAMES U.O.N.
4. REFER TO SHEET A-561 FOR INTERIOR DETAILS AND FLOORING TRANSITION DETAILS.
5. FIELD VERIFY ALL AS BUILT CONDITIONS PRIOR TO FABRICATION.
6. ALL FURNITURE SHOWN WITHIN DRAWINGS ARE FOR REFERENCE ONLY. OWNER TO PROCURE AND INSTALL FURNISHINGS.
7. REFER TO FINISH SCHEDULE FOR FINISH TYPE DESIGNATIONS.
8. REFER TO FINISH PLANS, ENLARGED PLANS, AND INTERIOR ELEVATIONS FOR FINISH TYPE LOCATIONS.

ACOUSTIC PANEL SIZES



NOTE:
- REFER TO ELEVATIONS FOR FABRIC DESIGNATIONS.
- 2" DEPTH TYPICAL FOR FLAT ACOUSTIC PANELS

TRIM PROFILES:



BASE MOULDING 1" X 10"	CHAIR RAIL MOULDING 1" X 3-1/2"	PANEL MOULDING 1" X 4"	DOOR CASING 3 1/2" TYP. 5" AT ENTRY GALLERY AS NOTED	CROWN MOULDING 1" X 5-1/8" AT ENTRY/ GALLERY 1" X 3-1/8" AT CORRIDORS	PANEL MOULDING 1.5" X 3"

ID_FINISHES VENDOR INFORMATION

MANUFACTURER	VENDOR CONTACT INFORMATION		
	NAME	EMAIL	PHONE NUMBER
BY GC	<varies>		
FIL DOUX			
FORMICA	Muriel Holy	muriel.holy@formica.com	407-712-3504
FRASCH	Mark MacPhee	mark@macpheecontractsolutions.com	863-409-0951
GUILFORD OF MAINE	Customer Service	guilfordsales@guilfordofmaine.com	800-544-0200
GULIFORD OF MAINE	Customer Service	guilfordsales@guilfordofmaine.com	800-544-0200
INPRO	Lauren Dunn	<varies>	<varies>
INTERFACE	Jennifer Kunz	<varies>	<varies>
KOROSEAL	Lauren Dunn		
MARLITE	Lauren Dunn		
NATIONAL WALLCOVERING	Customer Service	guilfordsales@guilfordofmaine.com	800-544-0200
ROBBINS 1ST			
SCHLUTER SYSTEMS	<varies>	<varies>	<varies>
SCRANTON	Mason Stokes	mason@ssarchsales.com	678-425-7583
SHERWIN WILLIAMS	Joy L. Babur	joy.lbabur@sherwin.com	407-694-7994
SHERWIN WILLIAMS FLOORING	Herb Mimler	herb.emimler@sherwin.com	352-304-0948
SIKA	Scott Travis	travis.scott@us.sika.com	689-219-9909
TARKETT	Kelli Russell	Kelli.russell@tarkett.com	407-280-9531
TARKETT/ JOHNSONITE	Kelli Russell	kelli.russell@tarkett.com	407-280-9531
TILE MOSAIC MEDALLIONS			
TRINITY TILE	Sarah Worrell	sworrell@trinitysurfaces.com	239-371-1433
VT INDUSTRIES	Doug Bachand	dbachand@vtindustries.com	919-452-3716
WILSONART	<varies>	<varies>	<varies>

VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
VERO BEACH, FLORIDA 32963

SCHENKEL SHULTZ

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INTERIOR FINISH SCHEDULE, LEGENDS AND DETAILS

A160

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N1 — COMPASS ROSE MEDALLION MOSAIC-BASIS OF DESIGN

NOT TO SCALE — SEE SCHEDULE FOR DETAILS

DIMENSION PLAN NOTES

1. ALL INTERIOR WALLS TO BE PAINTED PTL-1 UNLESS OTHERWISE NOTED.
2. ALL FLOORING SHOULD BE WALL TO WALL AND UNDER ALL CASEWORK AND CABINETRY SHOWN ON PLANS U.O.N.
3. ALL FLOORING TRANSITIONS WHERE TO FLOORING TYPES MEET, BOTH TO BE CENTERED WITHIN ALL DOOR FRAMES U.O.N.
4. REFER TO SHEET A-561 FOR INTERIOR DETAILS AND FLOORING TRANSITION DETAILS.
5. FIELD VERIFY ALL AS BUILT CONDITIONS PRIOR TO FABRICATION.
6. ALL FURNITURE SHOWN WITHIN DRAWINGS ARE FOR REFERENCE ONLY. OWNER TO PROCURE AND INSTALL FURNISHINGS.
7. REFER TO FINISH SCHEDULE FOR FINISH TYPE DESIGNATIONS.
8. REFER TO FINISH PLANS, ENLARGED PLANS, AND INTERIOR ELEVATIONS FOR FINISH TYPE LOCATIONS.

FLOOR FINISH LEGEND

- FLOOR FINISH VCT-1 — STATIC FREE
- FLOOR FINISH SCS-1, TYPICAL U.N.O.
- FLOOR FINISH PTF-1
- FLOOR FINISH PTF-2
- FLOOR FINISH PTF-3
- FLOOR FINISH CPT-1
- FLOOR FINISH CPT-2
- FLOOR FINISH EPX-1
- FLOOR FINISH WD-6
- FLOOR FINISH LVT-1

A1 — FINISH PLAN - 1ST FLOOR_AREA A

1/8" = 1'-0"

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AREA B
AREA A
KEYPLAN

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FINISH PLAN - 1 ST FLOOR PLAN_AREA A

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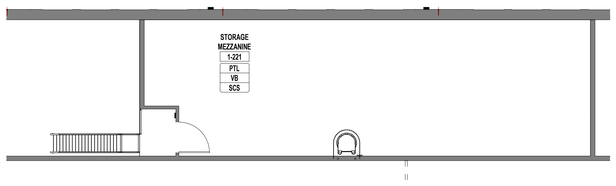
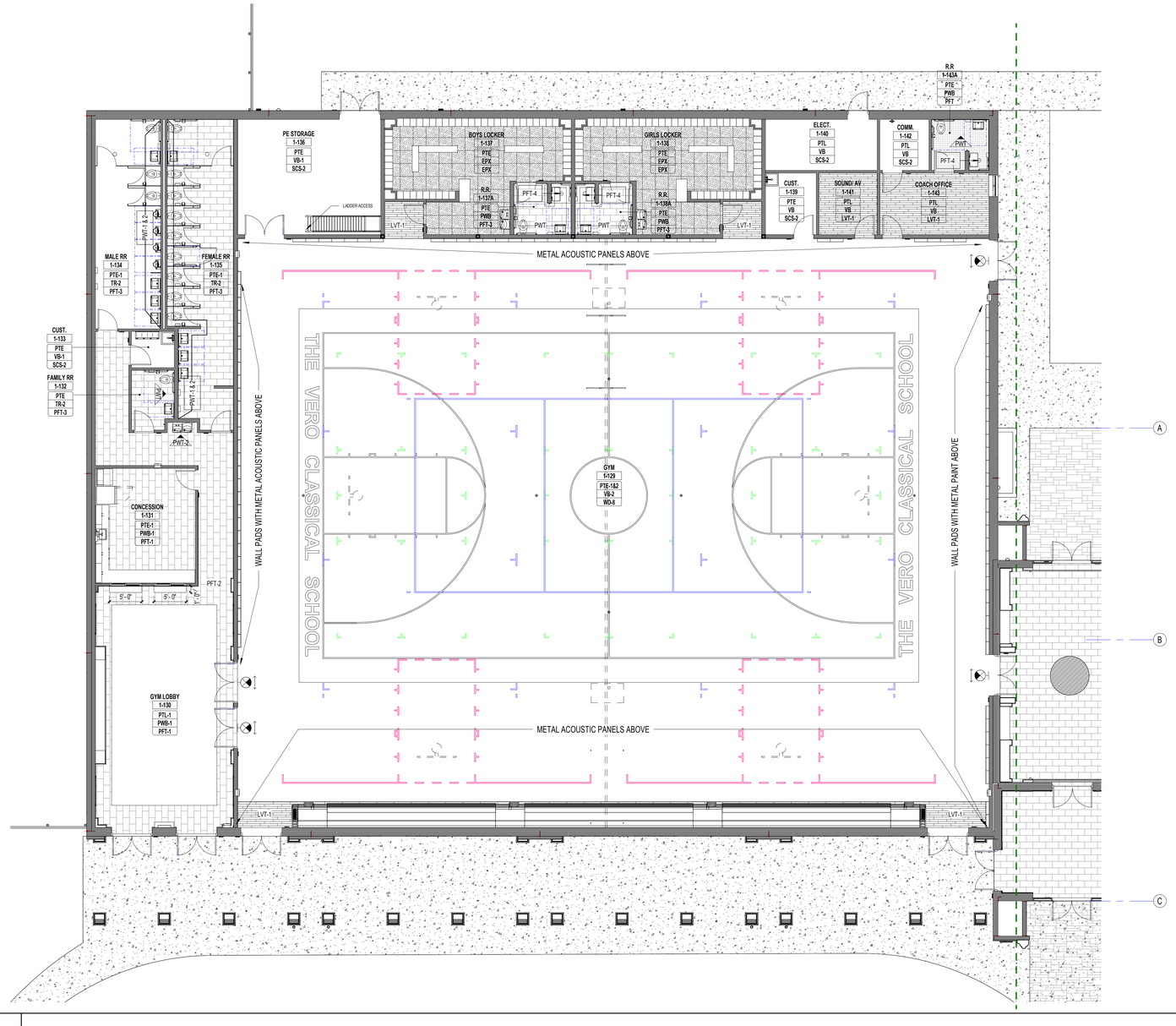


N1 — FINISH PLAN - 2ND FLOOR_AREA B_MEZZANINE

1/8" = 1'-0"



A1 — FINISH PLAN - 1ST FLOOR_AREA B

1/8" = 1'-0"

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3. ALL FLOORING TRANSITIONS WHERE TO FLOORING TYPES MEET, BOTH TO BE CENTERED WITHIN ALL DOOR FRAMES U.O.N.
4. REFER TO SHEET A-561 FOR INTERIOR DETAILS AND FLOORING TRANSITION DETAILS.
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8. REFER TO FINISH PLANS, ENLARGED PLANS, AND INTERIOR ELEVATIONS FOR FINISH TYPE LOCATIONS.

FLOOR FINISH LEGEND

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- FLOOR FINISH SCS-1, TYPICAL U.N.O.
- FLOOR FINISH PTF-1
- FLOOR FINISH PTF-2
- FLOOR FINISH PTF-3
- FLOOR FINISH CPT-1
- FLOOR FINISH CPT-2
- FLOOR FINISH EPX-1
- FLOOR FINISH WD-6
- FLOOR FINISH LVT-1

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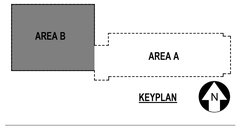

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FINISH PLAN - 1 ST & 2 ND FLOOR PLANS_AREA B

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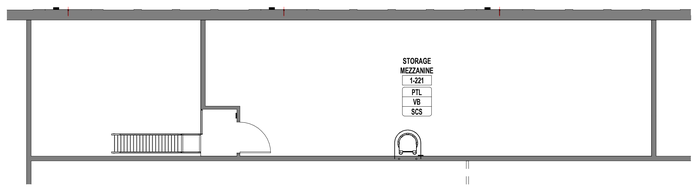
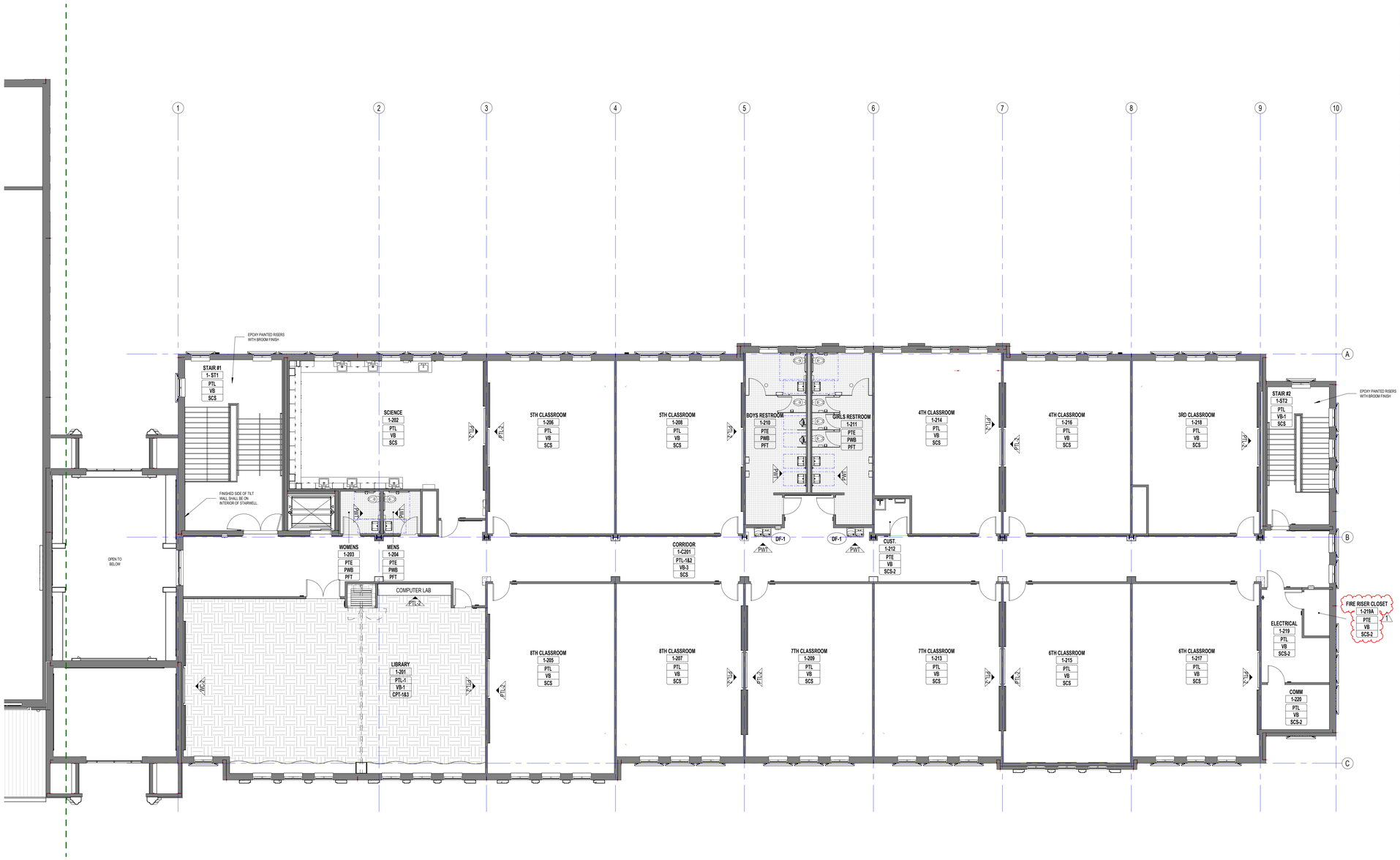


N1 — FINISH PLAN - 2ND FLOOR_AREA B

1/8" = 1'-0"



A1 — FINISH PLAN - 2ND FLOOR_AREA A

1/8" = 1'-0"

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- FLOOR FINISH PTF-1
- FLOOR FINISH PTF-2
- FLOOR FINISH PTF-3
- FLOOR FINISH CPT-1
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- FLOOR FINISH EPX-1
- FLOOR FINISH WD-6
- FLOOR FINISH LVT-1

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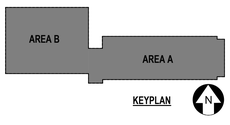

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FINISH PLAN - 2ND FLOOR PLAN

A162

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EQUIPMENT SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL/ ITEM#	CONTRACTOR FURNISH	CONTRACTOR INSTALL	OWNER FURNISH	OWNER INSTALL
E1	2 TIER x 72 HIGH LOCKER	DeBourgh Manufacturing Co.	Corregidoor Team Locker	YES	YES		
E2	TREATMENT COT					YES	YES
E3	COMPACT LAB REFRIGERATOR					YES	YES
E4	FLOOR COPY/PRINT MACHINE	Generic	Generic			YES	YES
E5	20 cu. ft. 36-Inch Width Counter-Depth French Door Refrigerator with Interior Dispense Réfrigérateur à portes françaises, profondeur de comptoir, 20 pi cu, 36 po	KitchenAid	KRFC300ESS			YES	YES
E6	MICROWAVE 1000 W 0.8 Cu ft	Generic	Generic			YES	YES
E7	PORTABLE WARMING CABINET	Avantco	HPI-1812 120V			YES	YES
E8	FULL HEIGHT HEATED CABINET	Avantco	HPI-1836 120V			YES	YES
E9	COMMERCIAL ICE MACHINE	Manitowoc Ice	IY1050A		YES	YES	
E10	S/S WORKTABLE	Aero Manufacturing	2TS-3060			YES	YES
E11	ROLL-IN REFRIGERATED CABINET	Traulsen	RIH232LUT-FHS			YES	YES
E12	DRY STORAGE SHELVING UNITS	Intermetro				YES	YES
E13	2 Compartment Sink	AERO Manufacturing	MF2-2116-24L	YES	YES		
E14	MUSIC LIBRARY SYSTEM - 6 SHELF, 3 UNITS	Wenger Corporation	6 Shelf Standard			YES	YES
E15	MUSIC STORAGE - CABINET TYPE #19 W/ GRILL DOOR- HOLDS 6 ACOUSTIC GUITARS	Wenger Corporation	#19A			YES	YES
E16	MUSIC STORAGE - CELLO MOBILE RACK	Wenger Corporation	4 Unit			YES	YES
E17	Ships Stairs (ships ladders) for rooftop access, mezzanine access, or crossover obstacles	Precision Ladders, LLC	Aluminum Ships Stairs	YES	YES		
E18	WALL PADDING			YES	YES		
E19	Roll-Up Divider Curtain	Performance Sports Systems	4030	YES	YES		
E20	WHITE BOARD 8'-0" W X 4'-0" H		As Specified	YES	YES		
E21	TV SCREEN AT CLASSROOMS		52" X 92"			YES	YES
E22	SAFETY GLASSES CABINET (SHELDON#31170 OR EQUAL)			YES	YES		
E23	FIRE BLANKET CABINET			YES	YES		
E24	FIRST AID CABINET & SUPPLIES			YES	YES		

GENERAL NOTES:

CASEWORK & FURNITURE LEGEND

CASEWORK* — * DIMENSIONS & NOMENCLATURE SEE MILLWORK SHEETS

FURNITURE / WORKSTATIONS

- TV MONITORS BRACKETS ARE TO BE PROVIDED & INSTALLED BY CONTRACTOR.
-CONTRACTOR TO OBTAIN BRACKET SPEC FROM OWNER.
-CONTRACTOR PROVIDE ADEQUATE BLOCKING & BACKING SUBSTRATE WITHIN THE WALLS TO SUPPORT MONITORS
-SEE SHEET A175 FOR TYPICAL CLASSROOM FURNITURE.

FURNITURE SCHEDULE

MARK	DESCRIPTION
F1	PODIUM
F2	3'H MOBILE METAL BOOKCASE
F2A	STACKING CANTILEVER - ZUMA
F2B	STACKING CANTILEVER - ZUMA
F2C	STACKING CANTILEVER - ZUMA
F2D	STACKING CANTILEVER - ZUMA
F3	TYPICAL CLASSROOM DESKS
F4	STOOL
F5	4000 SERIES ACTIVITY TABLE
F6	LAB TABLE
F7	PORTABLE RISERS
F8	STACKED - ARM CHAIR
F9	KINDERGARTEN TRAPEZOID TABLE
F10	CONFERENCE TABLE WITH 12 TASK CHAIRS
F11	TASK CHAIR
F12	BOOK SHELF
F13	TEACHER'S DESK
F14	MOBILE FILE CABINET
F15	TASK CHAIR
F16	FILE CABINET
F17	CART
F18	TRASH CAN
F19	42"X60"X30"H TABLE
F20	ART DRYING RACK
F21	ART DRYING RACK
F22	36X60X30 LIBRARY TABLE WITH 6 CHAIRS
F23A	SQUARE OTTOMAN-COLOR 1
F23B	SQUARE OTTOMAN-COLOR 2
F24A	ROUND OTTOMAN-COLOR 1
F24B	ROUND OTTOMAN-COLOR 2
F25	40" DIAM. LARGE OTTOMAN
F26	50" W LOVE SEAT
F27	MAGNETIC MOBILE MARKERBOARD
F28	TASK CHAIR-LIBRARY
F29	72X24X30 MOBILE FLIP-TOP TABLE
F30	4-LEG STACKABLE CHAIR
F31	FLOOR ROCKER CHAIR OR SIM. ACCENT CHAIR
F32	FLOOR SITTING PILLOW CUSHIONS
F33	LARGE RUG-LIBRARY
F34	TEACHER'S STORAGE LECTERN
F35	24X24X67H METAL SIDE ACCESS BOOKCASE FILE STOR.
F37	72X48 SIT TO STAND STAFF DESK
F38	BENCH 30"X84"
F39	METAL BOOKCASE
F40	MUSIC STAND
F41	5.5'X1.5' BENCH
F42	6X6 DESK WITH TASK ARMCHAIR

VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL SCHOOL WEST - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
VERO BEACH, FLORIDA 32968

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834 N. Orange Avenue
Winter Park, FL 32789
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REVISIONS			
MARK	DESCRIPTION		DATE
5	Addendum -04 _ IRC BUILDING REVIEW COMMENTS		6/6/2025

AREA B
AREA A
KEYPLAN

COMM. NO.: 2024117
ISSUE DATE: 12/23/2024
DRAWN BY: JL

EQUIPMENT AND FURNITURE PLAN - 1ST FLOOR_AREA A

A171.A
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A1 — EQUIPMENT PLAN - 1ST FLOOR AREA A
1/8" = 1'-0"

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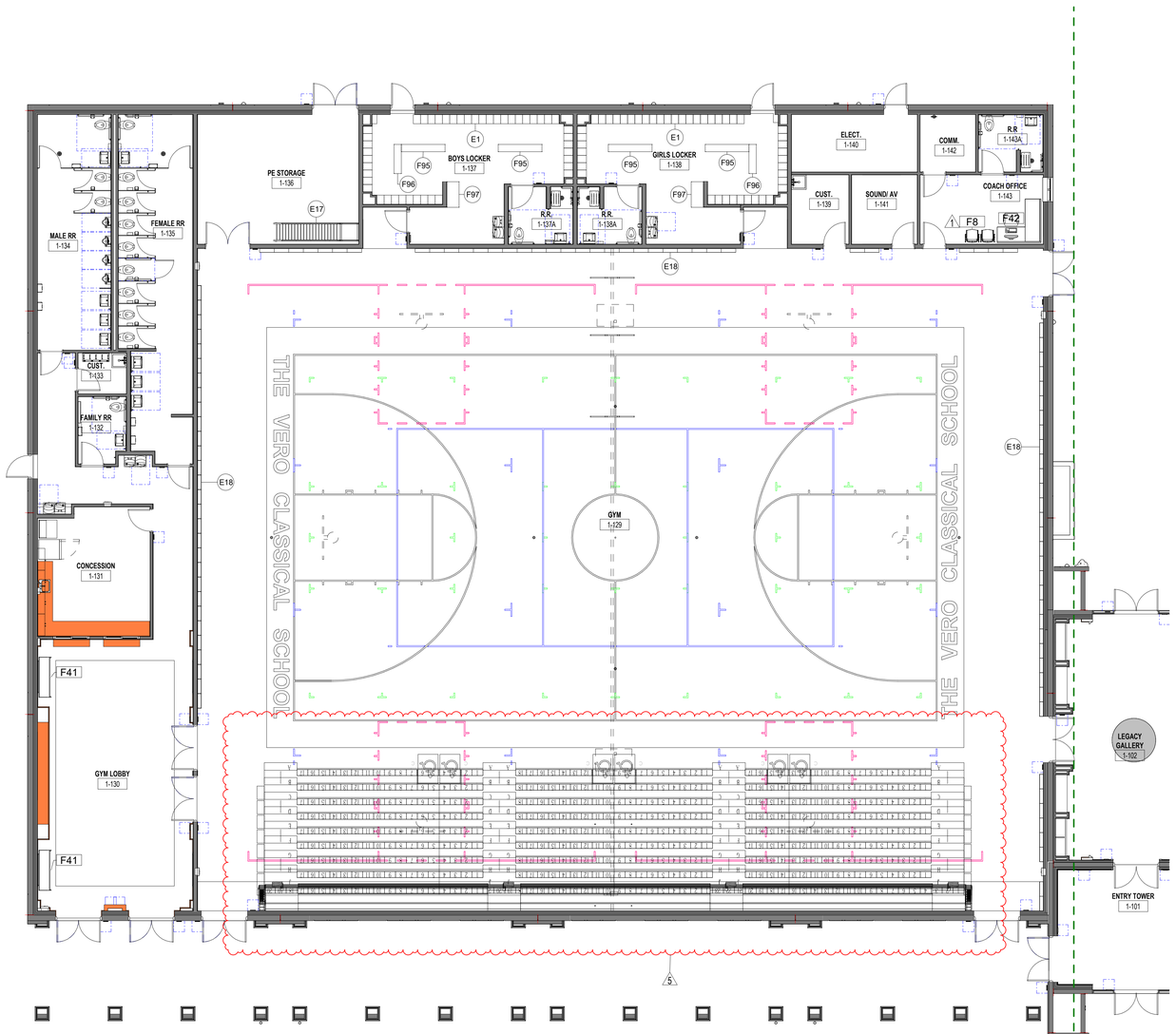

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F24A	ROUND OTTOMAN-COLOR 1
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F25	40" DIAM. LARGE OTTOMAN
F26	50" W LOVE SEAT
F27	MAGNETIC MOBILE MARKERBOARD
F28	TASK CHAIR-LIBRARY
F29	72X24X30 MOBILE FLIP-TOP TABLE
F30	4-LEG STACKABLE CHAIR
F31	FLOOR ROCKER CHAIR OR SIM. ACCENT CHAIR
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F40	MUSIC STAND
F41	5.5'X1.5' BENCH
F42	6X6 DESK WITH TASK ARMCHAIR

EQUIPMENT SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL/ ITEM#	CONTRACTOR FURNISH	CONTRACTOR INSTALL	OWNER FURNISH	OWNER INSTALL
E1	2 TIER x 72 HIGH LOCKER	DeBourgh Manufacturing Co.	Corregidoor Team Locker	YES	YES		
E2	TREATMENT COT					YES	YES
E3	COMPACT LAB REFRIGERATOR					YES	YES
E4	FLOOR COPY/PRINT MACHINE	Generic	Generic			YES	YES
E5	20 cu. ft. 36-Inch Width Counter-Depth French Door Refrigerator with Interior Dispense Réfrigérateur à portes françaises, profondeur de comptoir, 20 pi cu, 36 po	KitchenAid	KRFC300ESS			YES	YES
E6	MICROWAVE 1000 W 0.8 Cu ft.	Generic	Generic			YES	YES
E7	PORTABLE WARMING CABINET	Avantco	HPI-1812 120V			YES	YES
E8	FULL HEIGHT HEATED CABINET	Avantco	HPI-1836 120V			YES	YES
E9	COMMERCIAL ICE MACHINE	Manitowoc Ice	IYT0500A		YES	YES	
E10	S/S WORKTABLE	Aero Manufacturing	2TS-3060			YES	YES
E11	ROLL-IN REFRIGERATED CABINET	Traulsen	RIH232LUT-FHS			YES	YES
E12	DRY STORAGE SHELVING UNITS	Intermetro				YES	YES
E13	2 Compartment Sink	AERO Manufacturing	MF2-2116-24L	YES	YES		
E14	MUSIC LIBRARY SYSTEM - 6 SHELF, 3 UNITS	Wenger Corporation	6 Shelf Standard			YES	YES
E15	MUSIC STORAGE - CABINET TYPE #19 W/ GRILL DOOR- HOLDS 6 ACOUSTIC GUITARS	Wenger Corporation	#19A			YES	YES
E16	MUSIC STORAGE - CELLO MOBILE RACK	Wenger Corporation	4 Unit			YES	YES
E17	Ships Stairs (ships ladders) for rooftop access, mezzanine access, or crossover obstacles	Precision Ladders, LLC	Aluminum Ships Stairs	YES	YES		
E18	WALL PADDING			YES	YES		
E19	Roll-Up Divider Curtain	Performance Sports Systems	4030	YES	YES		
E20	WHITE BOARD 8'-0" W X 4'-0" H		As Specified	YES	YES		
E21	TV SCREEN AT CLASSROOMS		52" X 92"			YES	YES
E22	SAFETY GLASSES CABINET (SHELDON#31170 OR EQUAL)			YES	YES		
E23	FIRE BLANKET CABINET			YES	YES		
E24	FIRST AID CABINET & SUPPLIES			YES	YES		

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL SCHOOL WEST - PHASE I

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MARK	DESCRIPTION	DATE
1	Addendum- 01	01/ 24/ 2025
5	Addendum -04 - IRC BUILDING REVIEW COMMENTS	6/6/2025

AREA B
AREA A
KEYPLAN

COMM. NO.: 2024117
ISSUE DATE: 12/23/2024
DRAWN BY: JL

EQUIPMENT AND FURNITURE PLAN - 1ST FLOOR_AREA B

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A1
1/8" = 1'-0"
EQUIPMENT PLAN - 1ST FLOOR_AREA B

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FURNITURE SCHEDULE

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E1	2 TIER x 72 HIGH LOCKER	DeBourgh Manufacturing Co.	Corregidoor Team Locker	YES	YES		
E2	TREATMENT COT					YES	YES
E3	COMPACT LAB REFRIGERATOR					YES	YES
E4	FLOOR COPY/PRINT MACHINE	Generic	Generic			YES	YES
E5	20 cu. ft. 36-Inch Width Counter-Depth French Door Refrigerator with Interior Dispense Réfrigérateur à portes françaises, profondeur de comptoir, 20 pi cu, 36 po	KitchenAid	KRFC300ESS			YES	YES
E6	MICROWAVE 1000 W 0.8 Cu ft.	Generic	Generic			YES	YES
E7	Whirlpool® 5.8 Cu. Ft. Smart Slide-in Gas Range	Whirlpool	WEG750H0H			YES	YES
E8	SINGLE DOOR REACH-N REFRIGERATOR	Victory	RS-1D-S1			YES	YES
E9	COMMERCIAL ICE MACHINE	Manitowoc Ice	IYT0500A		YES	YES	
E10	S/S WORKTABLE	Aero Manufacturing	2TS-3060			YES	YES
E11	ROLL-IN REFRIGERATED CABINET	Traulsen	RIH232LUT-FHS			YES	YES
E12	DRY STORAGE SHELVING UNITS	Intermetro				YES	YES
E13	2 Compartment Sink	AERO Manufacturing	MF2-2116-24L	YES	YES		
E14	MUSIC LIBRARY SYSTEM - 6 SHELF, 3 UNITS	Wenger Corporation	6 Shelf Standard			YES	YES
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E16	MUSIC STORAGE - CELLO MOBILE RACK	Wenger Corporation	4 Unit			YES	YES
E17	Ships Stairs (ships ladders) for rooftop access, mezzanine access, or crossover obstacles	Precision Ladders, LLC	Aluminum Ships Stairs	YES	YES		
E18	WALL PADDING			YES	YES		
E19	Roll-Up Divider Curtain	Performance Sports Systems	4030	YES	YES		
E20	WHITE BOARD 8'-0" W X 4'-0" H		As Specified	YES	YES		
E21	TV SCREEN AT CLASSROOMS		52" X 92"			YES	YES
E22	SAFETY GLASSES CABINET (SHELDON#31170 OR EQUAL)			YES	YES		
E23	FIRE BLANKET CABINET			YES	YES		
E24	FIRST AID CABINET & SUPPLIES			YES	YES		

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A1 — EQUIPMENT PLAN - 2ND FLOOR_AREA A

1/8" = 1'-0"

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VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
VERO BEACH, FLORIDA 32963

SCHENKEL SHULTZ

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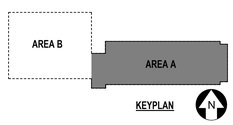
REVISIONS		
MARK	DESCRIPTION	DATE



KEYPLAN

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ISSUE DATE: 12/23/2024
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EQUIPMENT AND FURNITURE PLAN - 2ND FLOOR_AREA A

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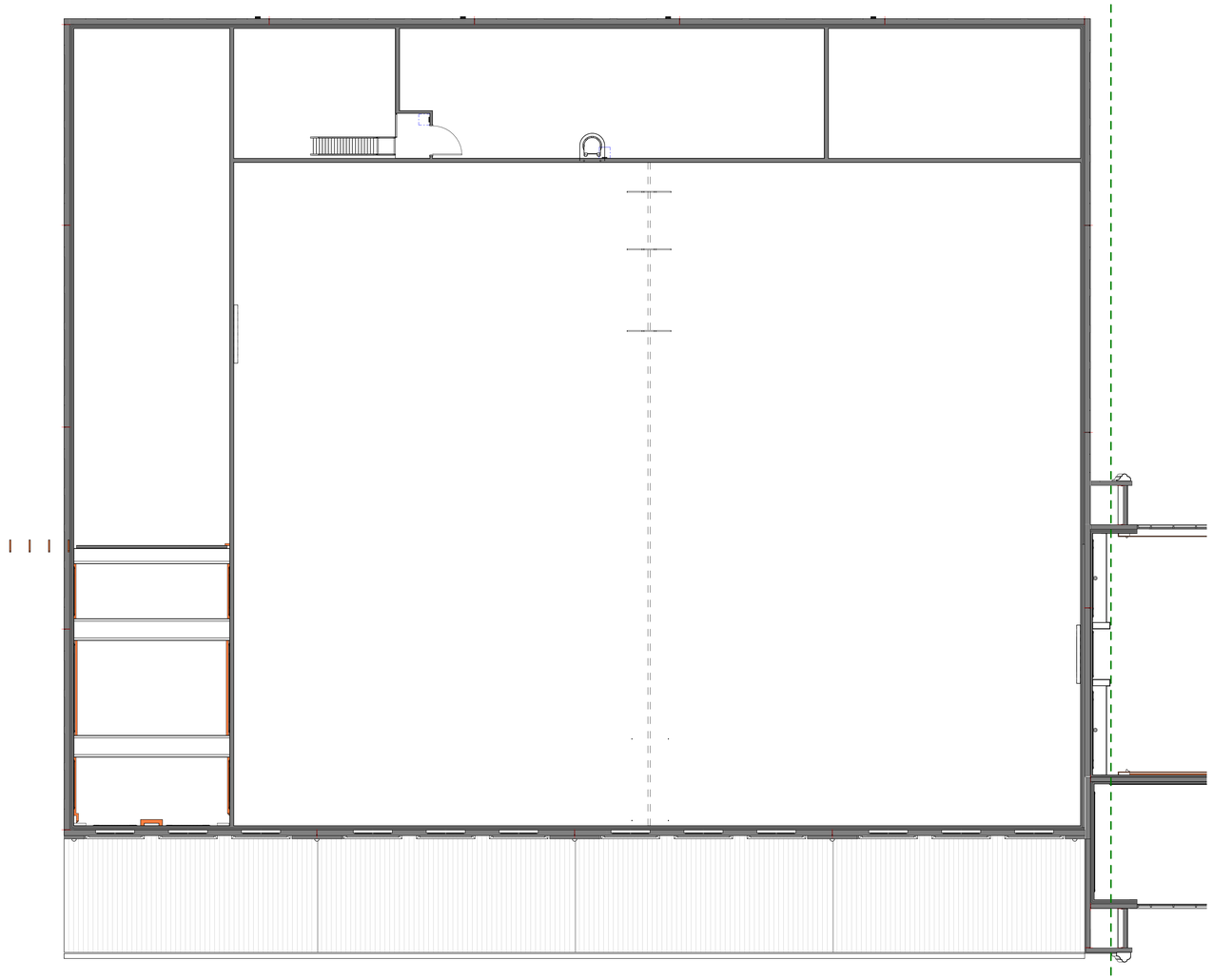

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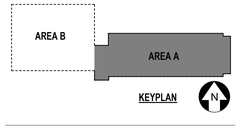
REVISIONS

MARK	DESCRIPTION	DATE



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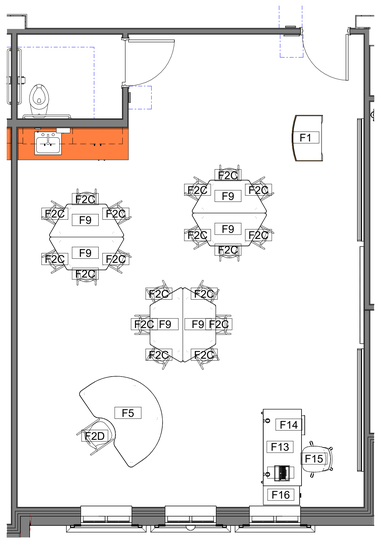
EQUIPMENT AND FURNITURE PLAN - 2ND FLOOR_AREA B

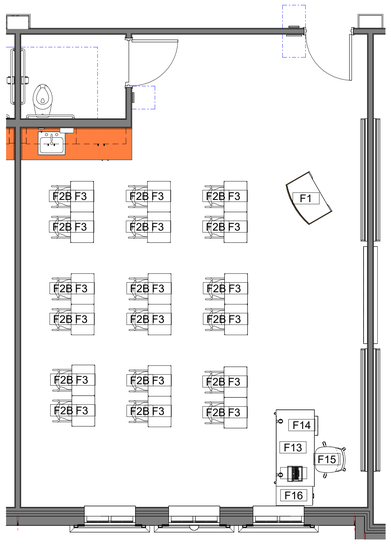
A172.B
BID/ PERMIT DOCUMENTS

A1 — EQUIPMENT PLAN - 2ND FLOOR_AREA B
1/8" = 1'-0"



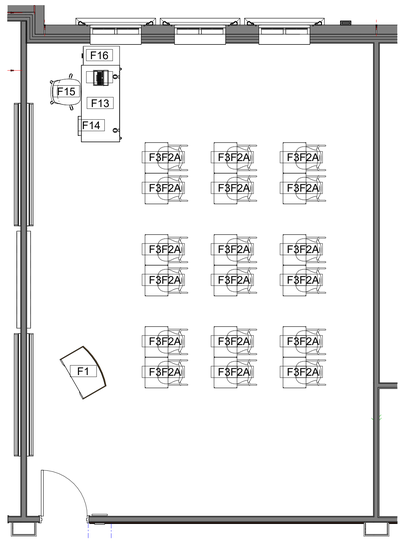
K1 — TYPICAL FURNITURE PLAN - CLASSROOM KINDERGARTEN

1/4" = 1'-0"



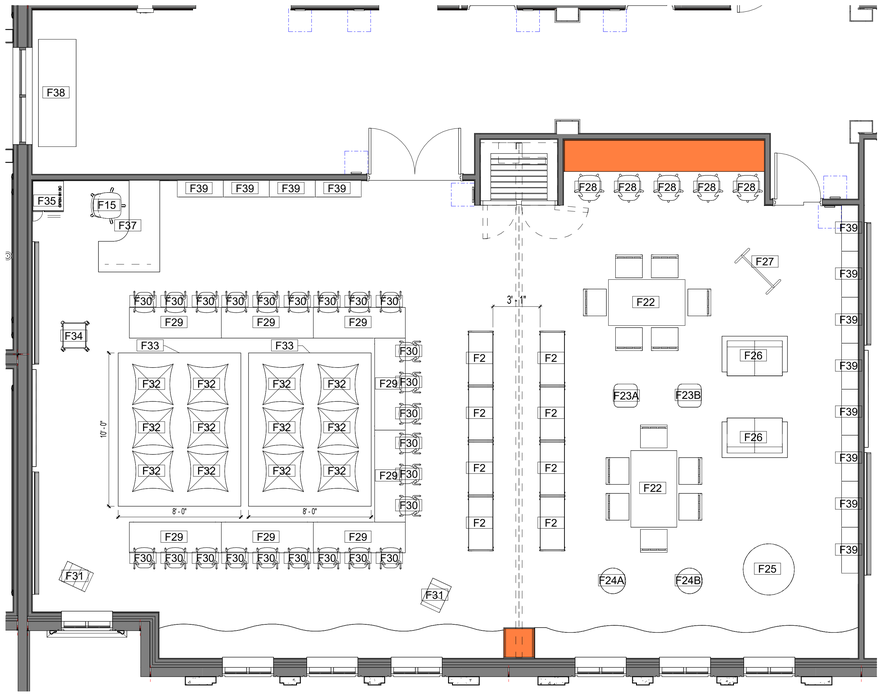
K5 — TYPICAL FURNITURE PLAN - CLASSROOM 1ST TO 3RD

1/4" = 1'-0"



K9 — TYPICAL FURNITURE PLAN - CLASSROOM 4TH TO 8TH

1/4" = 1'-0"



A1 — TYPICAL FURNITURE PLAN - LIBRARY

1/4" = 1'-0"

FURNITURE SCHEDULE

MARK	DESCRIPTION
F1	PODIUM
F2	3'H MOBILE METAL BOOKCASE
F2A	STACKING CANTILEVER - ZUMA
F2B	STACKING CANTILEVER - ZUMA
F2C	STACKING CANTILEVER - ZUMA
F2D	STACKING CANTILEVER - ZUMA
F3	TYPICAL CLASSROOM DESKS
F4	STOOL
F5	4000 SERIES ACTIVITY TABLE
F6	LAB TABLE
F7	PORTABLE RISERS
F8	STACKED - ARM CHAIR
F9	KINDERGARTEN TRAPEZOID TABLE
F10	CONFERENCE TABLE WITH 12 TASK CHAIRS
F11	TASK CHAIR
F12	BOOK SHELF
F13	TEACHER'S DESK
F14	MOBILE FILE CABINET
F15	TASK CHAIR
F16	FILE CABINET
F17	CART
F18	TRASH CAN
F19	42"X60"X30"H TABLE
F20	ART DRYING RACK
F21	ART DRYING RACK
F22	36X60X30 LIBRARY TABLE WITH 6 CHAIRS
F23A	SQUARE OTTOMAN-COLOR 1
F23B	SQUARE OTTOMAN-COLOR 2
F24A	ROUND OTTOMAN-COLOR 1
F24B	ROUND OTTOMAN-COLOR 2
F25	40" DIAM. LARGE OTTOMAN
F26	50" W LOVE SEAT
F27	MAGNETIC MOBILE MARKERBOARD
F28	TASK CHAIR-LIBRARY
F29	72X24X30 MOBILE FLIP-TOP TABLE
F30	4-LEG STACKABLE CHAIR
F31	FLOOR ROCKER CHAIR OR SIM. ACCENT CHAIR
F32	FLOOR SITTING PILLOW CUSHIONS
F33	LARGE RUG-LIBRARY
F34	TEACHER'S STORAGE LECTERN
F35	24X24X67H METAL SIDE ACCESS BOOKCASE FILE STOR.
F36	COFFEE TABLE
F37	72X48 SIT TO STAND STAFF DESK
F38	BENCH 30"X84"
F39	METAL BOOKCASE
F40	MUSIC STAND
F41	5.5'X1.5' BENCH
F42	6X6 DESK WITH TASK ARMCHAIR

GENERAL NOTES:

CASEWORK & FURNITURE LEGEND

CASEWORK* — * DIMENSIONS & NOMENCLATURE SEE MILLWORK SHEETS

FURNITURE / WORKSTATIONS

- TV MONITORS BRACKETS ARE TO BE PROVIDED & INSTALLED BY CONTRACTOR.
-CONTRACTOR TO OBTAIN BRACKET SPEC FROM OWNER.
-CONTRACTOR PROVIDE ADEQUATE BLOCKING & BACKING SUBSTRATE WITHIN THE WALLS TO SUPPORT MONITORS
-SEE SHEET A175 FOR TYPICAL CLASSROOM FURNITURE.

EQUIPMENT SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL/ ITEM#	CONTRACTOR FURNISH	CONTRACTOR INSTALL	OWNER FURNISH	OWNER INSTALL
E1	2 TIER x 72 HIGH LOCKER	DeBourgh Manufacturing Co.	Corregidoor Team Locker	YES	YES		
E2	TREATMENT COT					YES	YES
E3	COMPACT LAB REFRIGERATOR					YES	YES
E4	FLOOR COPY/PRINT MACHINE	Generic	Generic			YES	YES
E5	20 cu. ft. 36-Inch Width Counter-Depth French Door Refrigerator with Interior Dispense Réfrigérateur à portes françaises, profondeur de comptoir, 20 pi cu, 36 po	KitchenAid	KRFC300ESS			YES	YES
E6	MICROWAVE 1000 W 0.8 Cu ft.	Generic	Generic			YES	YES
E7	Whirlpool® 5.8 Cu. Ft. Smart Slide-in Gas Range	Whirlpool	WEG750H0H			YES	YES
E8	SINGLE DOOR REACH-N REFRIGERATOR	Victory	RS-1D-S1			YES	YES
E9	COMMERCIAL ICE MACHINE	Manitowoc Ice	IYT0500A		YES	YES	
E10	S/S WORKTABLE	Aero Manufacturing	2TS-3060			YES	YES
E11	ROLL-IN REFRIGERATED CABINET	Traulsen	RIH232LUT-FHS			YES	YES
E12	DRY STORAGE SHELVING UNITS	Intermetro				YES	YES
E13	2 Compartment Sink	AERO Manufacturing	MF2-2116-24L	YES	YES		
E14	MUSIC LIBRARY SYSTEM - 6 SHELF, 3 UNITS	Wenger Corporation	6 Shelf Standard			YES	YES
E15	MUSIC STORAGE - CABINET TYPE #19 W/ GRILL DOOR- HOLDS 6 ACOUSTIC GUITARS	Wenger Corporation	#19A			YES	YES
E16	MUSIC STORAGE - CELLO MOBILE RACK	Wenger Corporation	4 Unit			YES	YES
E17	Ships Stairs (ships ladders) for rooftop access, mezzanine access, or crossover obstacles	Precision Ladders, LLC	Aluminum Ships Stairs	YES	YES		
E18	WALL PADDING			YES	YES		
E19	Roll-Up Divider Curtain	Performance Sports Systems	4030	YES	YES		
E20	WHITE BOARD 8'-0" W X 4'-0" H		As Specified	YES	YES		
E21	TV SCREEN AT CLASSROOMS		52" X 92"			YES	YES
E22	SAFETY GLASSES CABINET (SHELDON#31170 OR EQUAL)			YES	YES		
E23	FIRE BLANKET CABINET			YES	YES		
E24	FIRST AID CABINET & SUPPLIES			YES	YES		

VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
VERO BEACH, FLORIDA 32963

SCHENKEL SHULTZ

834 N. Orange Avenue
Winter Park, FL 32789
voice 407-872-3322

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www.schenkelshultz.com

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REVISIONS

MARK	DESCRIPTION	DATE

COMM. NO.: 2024117
ISSUE DATE: 12/23/2024
DRAWN BY: JL

ENLARGED FURNITURE & EQUIPMENT PLANS

A175

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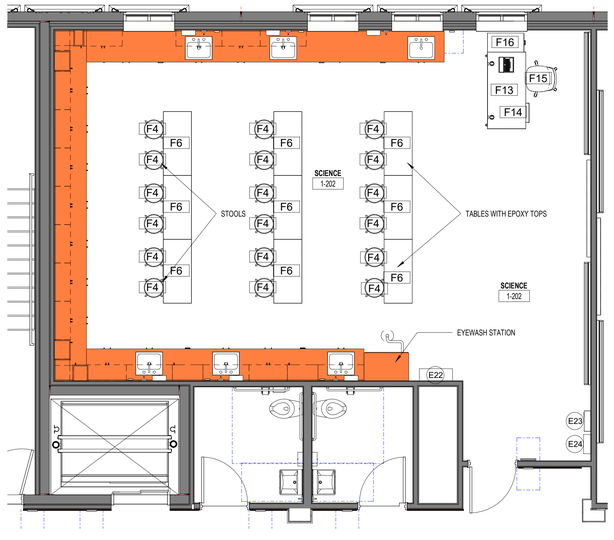
J1

TYPICAL FURNITURE PLAN - MISIC, DRAMA & ART CLASSROOM

1/4" = 1'-0"



A1

TYPICAL FURNITURE PLAN - SCIENCE CLASSROOM

1/4" = 1'-0"

FURNITURE SCHEDULE

MARK	DESCRIPTION
F1	PODIUM
F2	3'H MOBILE METAL BOOKCASE
F2A	STACKING CANTILEVER - ZUMA
F2B	STACKING CANTILEVER - ZUMA
F2C	STACKING CANTILEVER - ZUMA
F2D	STACKING CANTILEVER - ZUMA
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F25	40" DIAM. LARGE OTTOMAN
F26	50" W LOVE SEAT
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F28	TASK CHAIR-LIBRARY
F29	72X24X30 MOBILE FLIP-TOP TABLE
F30	4-LEG STACKABLE CHAIR
F31	FLOOR ROCKER CHAIR OR SIM. ACCENT CHAIR
F32	FLOOR SITTING PILLOW CUSHIONS
F33	LARGE RUG-LIBRARY
F34	TEACHER'S STORAGE LECTERN
F35	24X24X67H METAL SIDE ACCESS BOOKCASE FILE STOR.
F36	COFFEE TABLE
F37	72X48 SIT TO STAND STAFF DESK
F38	BENCH 30"X84"
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EQUIPMENT SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL/ ITEM#	CONTRACTOR FURNISH	CONTRACTOR INSTALL	OWNER FURNISH	OWNER INSTALL
E1	2 TIER x 72 HIGH LOCKER	DeBourgh Manufacturing Co.	Corregidoor Team Locker	YES	YES		
E2	TREATMENT COT					YES	YES
E3	COMPACT LAB REFRIGERATOR					YES	YES
E4	FLOOR COPY/PRINT MACHINE	Generic	Generic			YES	YES
E5	20 cu. ft. 36-Inch Width Counter-Depth French Door Refrigerator with Interior Dispense Réfrigérateur à portes françaises, profondeur de comptoir, 20 pi cu, 36 po	KitchenAid	KRFC300ESS			YES	YES
E6	MICROWAVE 1000 W 0.8 Cu ft.	Generic	Generic			YES	YES
E7	Whirlpool® 5.8 Cu. Ft. Smart Slide-in Gas Range	Whirlpool	WEG750H0H			YES	YES
E8	SINGLE DOOR REACH-N REFRIGERATOR	Victory	RS-1D-S1			YES	YES
E9	COMMERCIAL ICE MACHINE	Manitowoc Ice	IYT0500A		YES	YES	
E10	S/S WORKTABLE	Aero Manufacturing	2TS-3060			YES	YES
E11	ROLL-IN REFRIGERATED CABINET	Traulsen	RIH232LUT-FHS			YES	YES
E12	DRY STORAGE SHELVING UNITS	Intermetro				YES	YES
E13	2 Compartment Sink	AERO Manufacturing	MF2-2116-24L	YES	YES		
E14	MUSIC LIBRARY SYSTEM - 6 SHELF, 3 UNITS	Wenger Corporation	6 Shelf Standard			YES	YES
E15	MUSIC STORAGE - CABINET TYPE #19 W/ GRILL DOOR- HOLDS 6 ACOUSTIC GUITARS	Wenger Corporation	#19A			YES	YES
E16	MUSIC STORAGE - CELLO MOBILE RACK	Wenger Corporation	4 Unit			YES	YES
E17	Ships Stairs (ships ladders) for rooftop access, mezzanine access, or crossover obstacles	Precision Ladders, LLC	Aluminum Ships Stairs	YES	YES		
E18	WALL PADDING			YES	YES		
E19	Roll-Up Divider Curtain	Performance Sports Systems	4030	YES	YES		
E20	WHITE BOARD 8'-0" W X 4'-0" H		As Specified	YES	YES		
E21	TV SCREEN AT CLASSROOMS		52" X 92"			YES	YES
E22	SAFETY GLASSES CABINET (SHELDON#31170 OR EQUAL)			YES	YES		
E23	FIRE BLANKET CABINET			YES	YES		
E24	FIRST AID CABINET & SUPPLIES			YES	YES		

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REVISIONS		
MARK	DESCRIPTION	DATE

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ISSUE DATE: 12/23/2024
DRAWN BY: JL

ENLARGED FURNITURE & EQUIPMENT PLANS

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SIGNAGE GENERAL NOTES

1. CONTRACTOR TO PROVIDE & INSTALL ALL SIGNAGE, COMPONENTS & INSERTS INDICATED IN THE DRAWINGS AND REQUIRED BY ALL APPLICABLE CODES.
2. EMERGENCY EVACUATION MAPS SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL BE DESIGNED SPECIFIC TO THE SIGN LOCATION.
3. REFER TO SIGNAGE PLANS FOR LOCATION AND PLACEMENT OF ALL SIGNAGE.
4. TEXT, NUMBERING, COLORS AND SIGNAGE TYPE TO MATCH EXISTING AND TO BE VERIFIED BY OWNER AND ARCHITECT PRIOR TO FABRICATION AND INSTALLATION.
5. CENTER PICTOGRAMS U.N.O.
6. ADA MOUNTING HEIGHT NOTE: PER SECTION 703.4.1 HEIGHT ABOVE FINISH FLOOR OR GROUND. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES (1220mm) MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES (1525 mm) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER.
7. GRADE II BRAILLE: BRAILLE TEXT TO BE SAME AS TEXT DIRECTLY ABOVE.

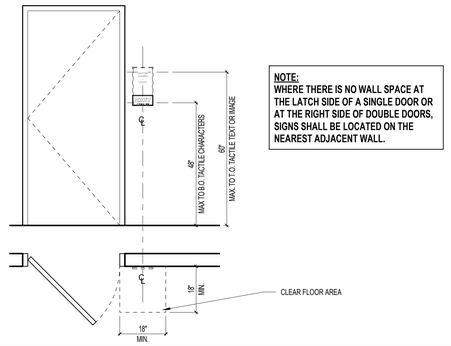
TYPICAL SIGN FEATURES

SIGN
- CORNER RADIUS: 1/2"
- COLOR: TO MATCH EXISTING

TEXT
- RAISED TACTILE LETTERING
- COLOR: TO MATCH EXISTING
- FONT: TO MATCH EXISTING
- BRAILLE: DOMED GRADE 2

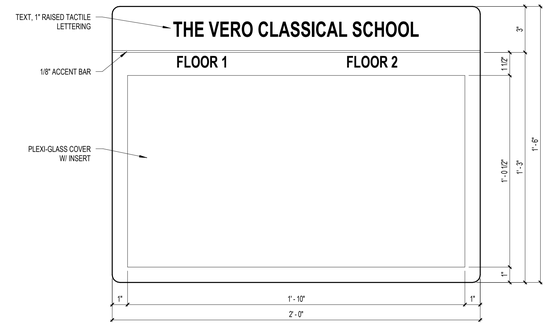
SIGNAGE SCHEDULE

MARK	SIGN	MOUNT. HEIGHT (AFF TO CL)	FONT SIZE	SYMBOL SIZE
S1	SCHOOL DIRECTORY	50"	5/8"	
S2	EVACUATION MAP	53 1/2"	1/4"	
S3	ROOM NAME AND NUMBER	50"	5/8"	
S4	ROOM NAME AND NUMBER WITH SLOT	50"	5/8"	
S5	RESTROOM MALE	50"	5/8"	
S6	RESTROOM FEMALE	50"	5/8"	
S7	RESTROOM UNISEX	50"	5/8"	
S8	EXIT SIGN	50"	5/8"	
S9	SECURED ACCESS SIGN	50"	5/8"	
S10	EXIT ONLY ALARM SIGN	50"	5/8"	
S11	STAIR SIGN	50"	5/8"	
S12	ELEVATOR IN CASE OF FIRE SIGN	50"	5/8"	
S13	FLOOR LEVEL SIGN	50"	5/8"	
S14	MAX CAPACITY SIGN	54"	3/4"	
S15	FIRE RISER INSIDE SIGN	50"	5/8"	
S16	ROOF ACCESS SIGN	50"	5/8"	
S17	ROOF ACCESS INSIDE SIGN	50"	5/8"	
S18	BUILDING NUMBER	56"		
S19	NO ACID DISPOSAL	44"	5/8"	
SP	BUILDING PLAQUE	50"		



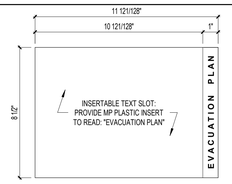
NOTE:
WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL.

TYP. SIGN MOUNTING LOCATION



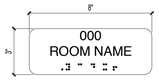
BUILDING DIRECTORY SIGN ACCOMMODATES INSERT

S1 — SCHOOL DIRECTORY — 3" = 1'-0"

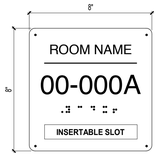


CLEAR ACRYLIC, BENT FOR 8 1/2" X 11" INSERT

S2 — EVACUATION MAP SIGN — 3" = 1'-0"



S3 — ROOM NAME & NUMBER SIGN — 3" = 1'-0"



S4 — ROOM NAME & NUMBER SIGN W/ SLOT — 3" = 1'-0"

TEXT IS TO READ AS DESIGNATED PER ROOM AS SHOWN ON THE SIGNAGE FLOOR PLANS

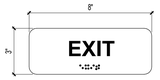
S5 — BOYS/ MALE RESTROOM SIGN — 3" = 1'-0"

TEXT IS TO READ AS DESIGNATED PER ROOM AS SHOWN ON THE SIGNAGE FLOOR PLANS

S6 — GIRLS/ FEMALE RESTROOM SIGN — 3" = 1'-0"

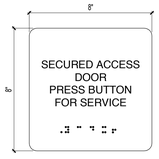
TEXT IS TO READ AS DESIGNATED PER ROOM AS SHOWN ON THE SIGNAGE FLOOR PLANS

S7 — UNISEX (STAFF/ STUDENT) RESTROOM SIGN — 3" = 1'-0"

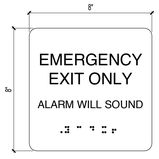


PROVIDE ONE (1) AT EACH EXIT DOOR, UNLESS S9 TYPE IN USE

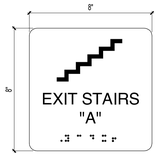
S8 — EXIT SIGN — 3" = 1'-0"



S9 — SECURED ACCESS SIGN — 3" = 1'-0"



S10 — EXIT ONLY ALARM SIGN — 3" = 1'-0"



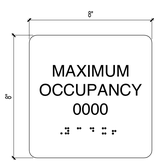
S11 — STAIR SIGN — 3" = 1'-0"

S12 — IN CASE OF FIRE - STAIR SIGN — 3" = 1'-0"

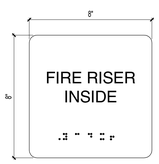
PROVIDE AT 2ND LEVEL DOORS INSIDE STAIR & ON COLUMNS ON EXTERIOR STAIRS

PROVIDE AT 1ST LEVEL DOORS INSIDE STAIR & ON COLUMNS ON EXTERIOR STAIRS

S13 — FLOOR LEVEL SIGN — 3" = 1'-0"



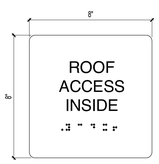
S14 — MAX CAPACITY SIGN — 3" = 1'-0"



COORDINATE LOCATIONS WITH MEP & FIRE ALARM PLANS

S15 — FIRE RISER INSIDE SIGN — 3" = 1'-0"

S16 — ROOF ACCESS SIGN — 3" = 1'-0"



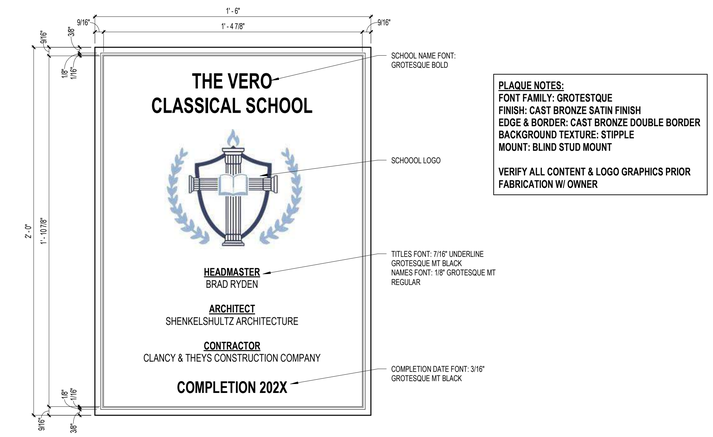
S17 — ROOF ACCESS INSIDE SIGN — 3" = 1'-0"

1234

BUILDING NAME & NUMBER SIGN

MATERIAL: 1" DEEP ALUMINUM (CAST METAL) - PIN MOUNTED
MOUNTING HEIGHT: SEE EXTERIOR ELEVATIONS
STROKE: 3"
FONT SIZE: 24"
FONT: HELVETICA MEDIUM, UPPER CASE
COLOR: AS SELECTED FROM MANUF. COLOR CHART

S18 — EXTERIOR BUILDING NUMBERS — 3" = 1'-0"



PLAQUE NOTES:
FONT FAMILY: GROTESTQUE
FINISH: CAST BRONZE SATIN FINISH
EDGE & BORDER: CAST BRONZE DOUBLE BORDER
BACKGROUND TEXTURE: STIPPLE
MOUNT: BLIND STUD MOUNT

VERIFY ALL CONTENT & LOGO GRAPHICS PRIOR FABRICATION W/ OWNER

P — BUILDING PLAQUE — 3" = 1'-0"

VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
VERO BEACH, FLORIDA 32963

SCHENKEL SHULTZ

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SIGNAGE TYPES & NOTES

A190
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SIGNAGE LEGEND:

SEE SHEET A190 FOR SIGNAGE TYPE.

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AREA B

AREA A

KEYPLAN

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SIGNAGE PLAN - 1ST FLOOR_AREA A

A1

SIGNAGE PLAN - 1ST FLOOR AREA A

1/8" = 1'-0"

A191.A

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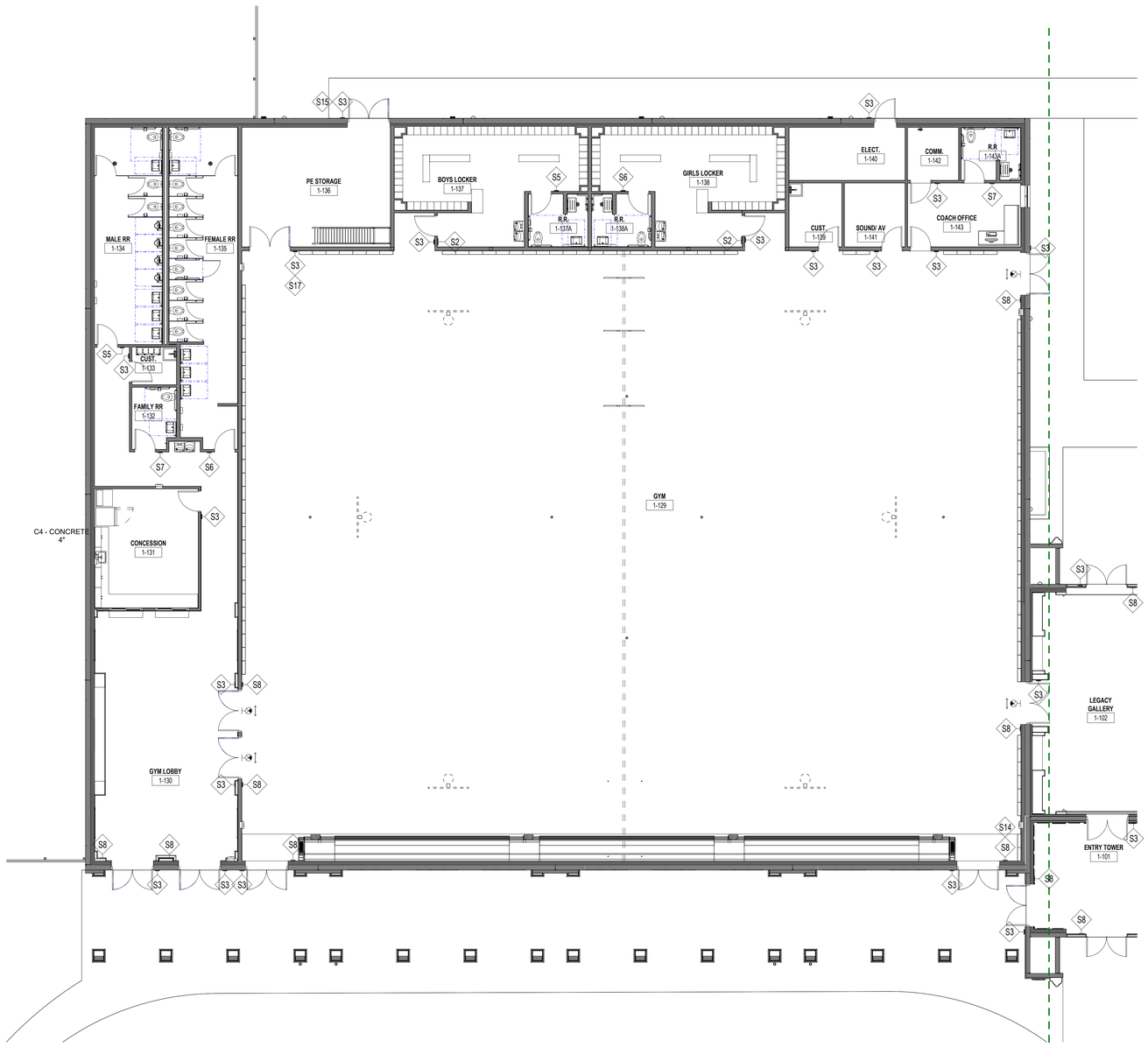
SIGNAGE LEGEND:

SH — SEE SHEET A190 FOR SIGNAGE TYPE.



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AREA B

AREA A

KEYPLAN

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SIGNAGE PLAN - 1ST FLOOR_AREA B

A1 — SIGNAGE PLAN - 1ST FLOOR AREA B
1/8" = 1'-0"

A191.B
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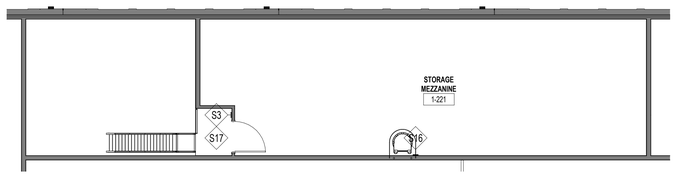

N1 SIGNAGE PLAN - 2ND FLOOR_AREA B

1/8" = 1'-0"

A1 SIGNAGE PLAN - 2ND FLOOR_AREA A

1/8" = 1'-0"

SIGNAGE LEGEND:

S## — SEE SHEET A190 FOR SIGNAGE TYPE.

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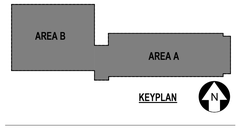

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SIGNAGE PLAN - 2ND FLOOR

A192.A
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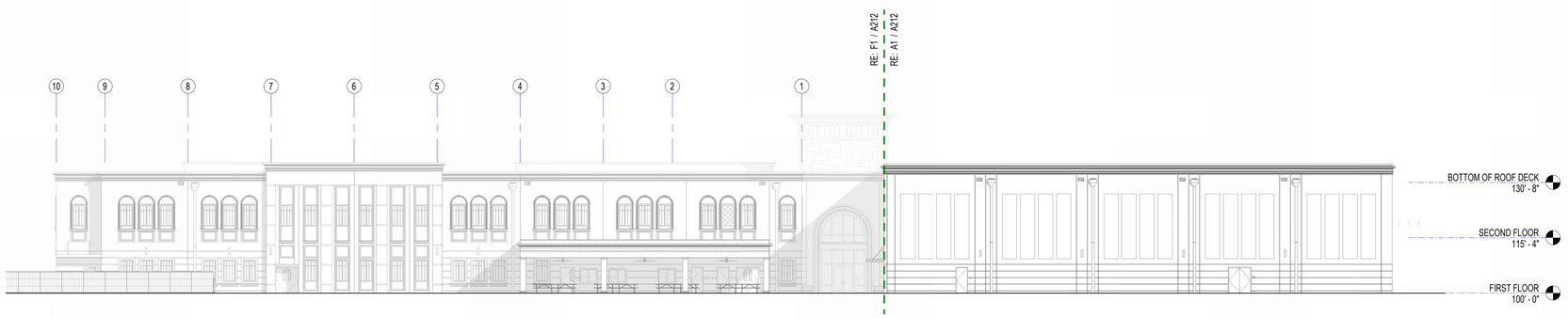
L1 EXT. VIEW FRONT

NOT TO SCALE

F1 SOUTH ELEVATION - OVERALL

1/16" = 1'-0"



A1 NORTH ELEVATION - OVERALL

1/16" = 1'-0"

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EXTERIOR ELEVATIONS

A201

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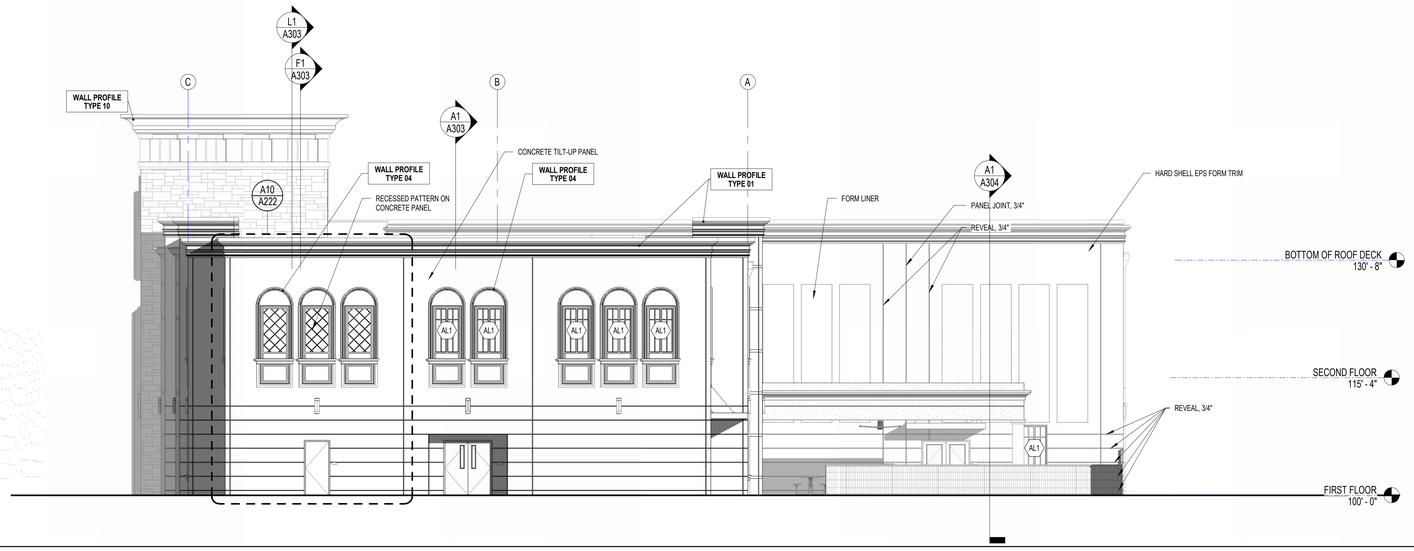
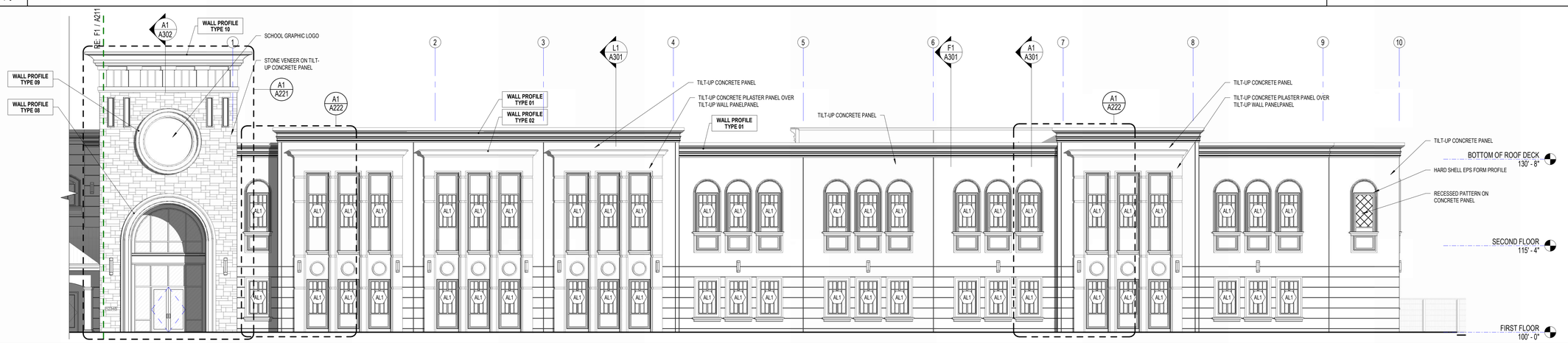


ELEVATION NOTE:
1. SEE SHEET A522 FOR EPS EXTERIOR WALL PROFILE DETAILS.

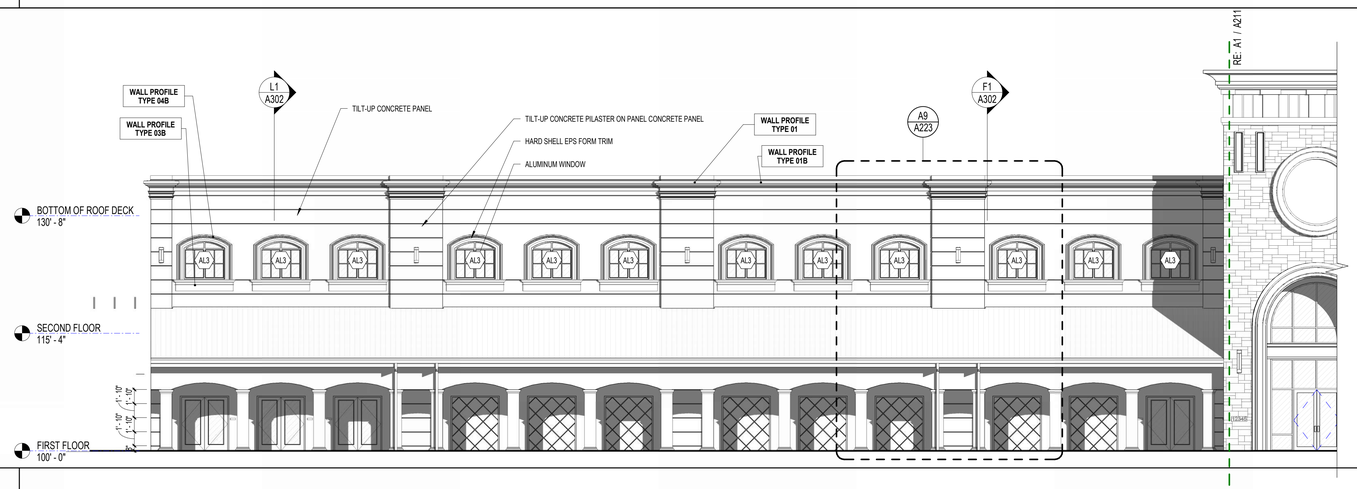
L1 EAST ELEVATION

1/8" = 1'-0"



A1 SOUTH ELEVATION_AREA A

1/8" = 1'-0"



F1 SOUTH ELEVATION_AREA B

1/8" = 1'-0"

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EXTERIOR ELEVATIONS

A211
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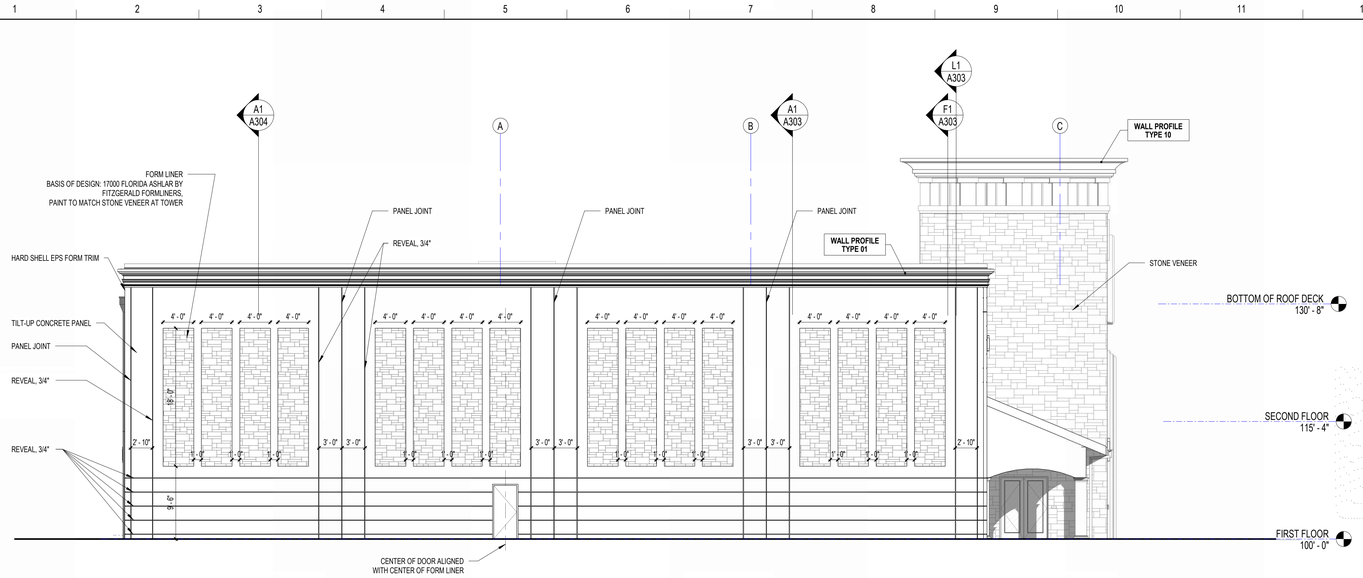
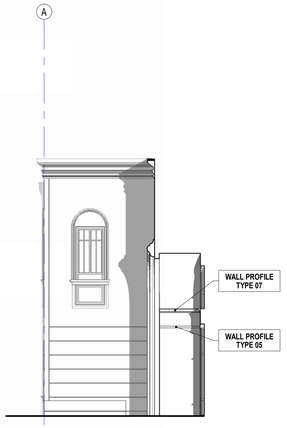


L1 — WEST ELEVATION

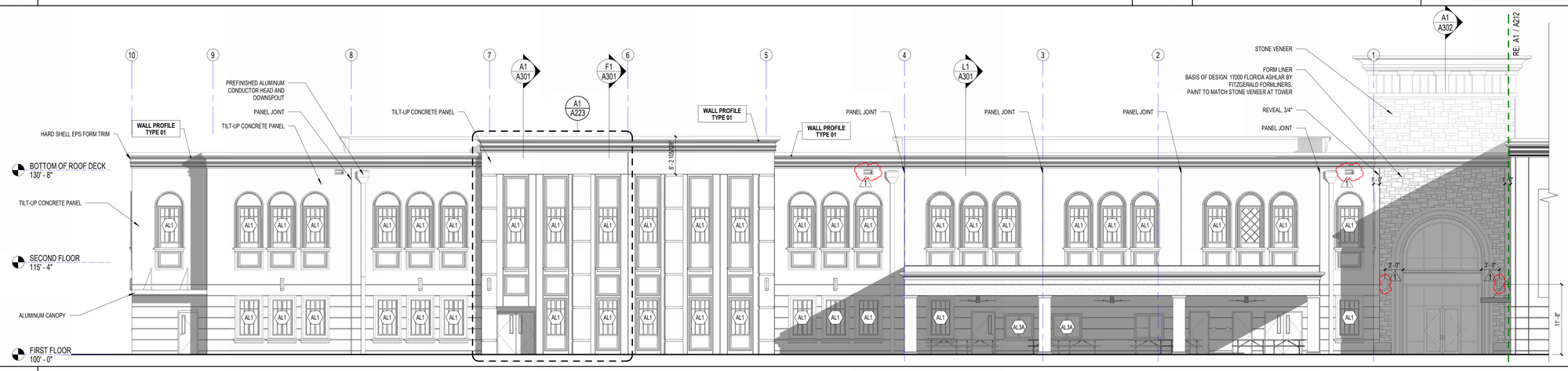
1/8" = 1'-0"



L13 — NORTH ELEVATION

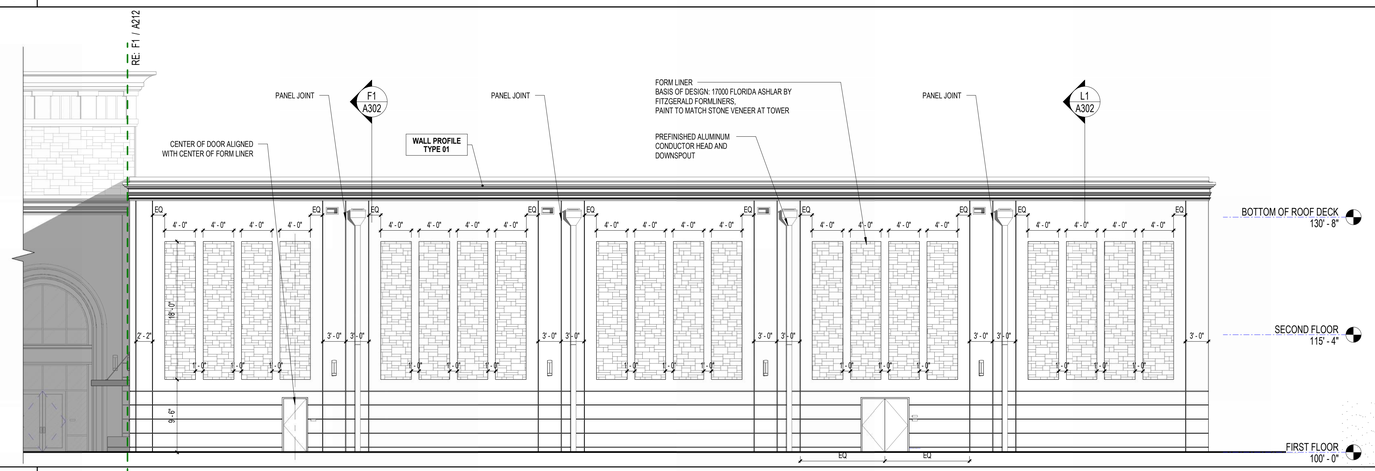
1/8" = 1'-0"

ELEVATION NOTE:
1. SEE SHEET A522 FOR EPS EXTERIOR WALL PROFILE DETAILS.



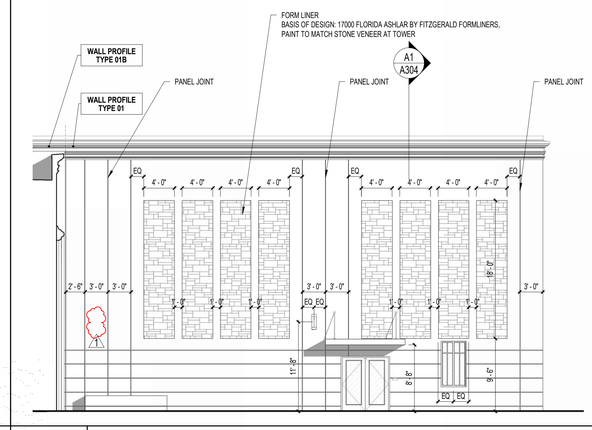
F1 — NORTH ELEVATION_AREA A

1/8" = 1'-0"



A1 — NORTH ELEVATION_AREA B

1/8" = 1'-0"



A13 — NORTH ELEVATION

1/8" = 1'-0"

VERO CLASSICAL SCHOOL

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EXTERIOR ELEVATIONS

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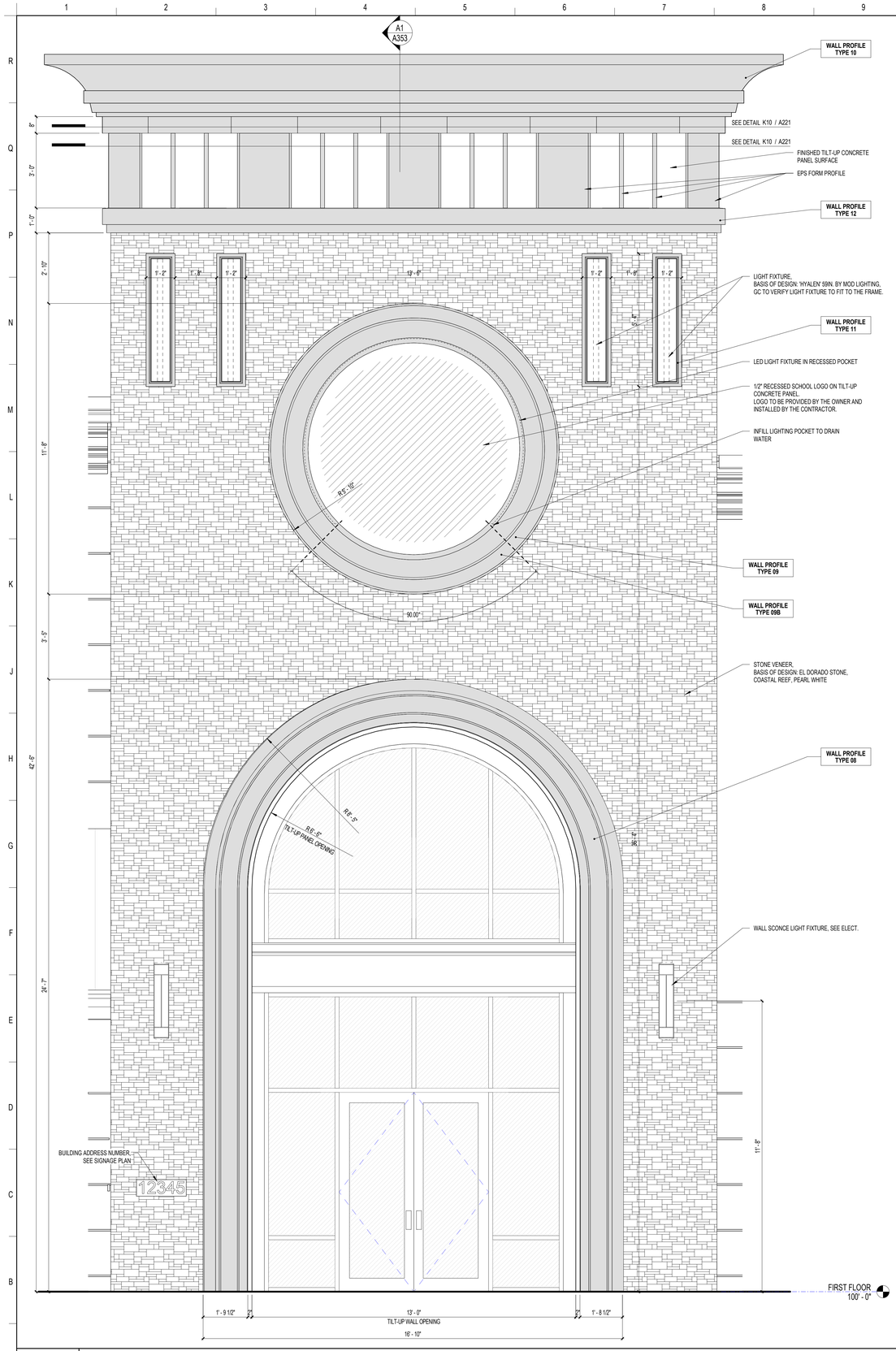
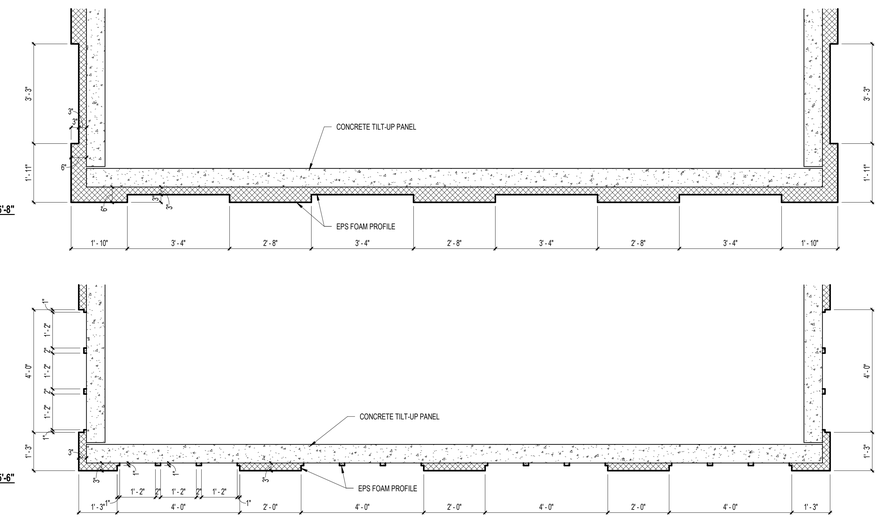
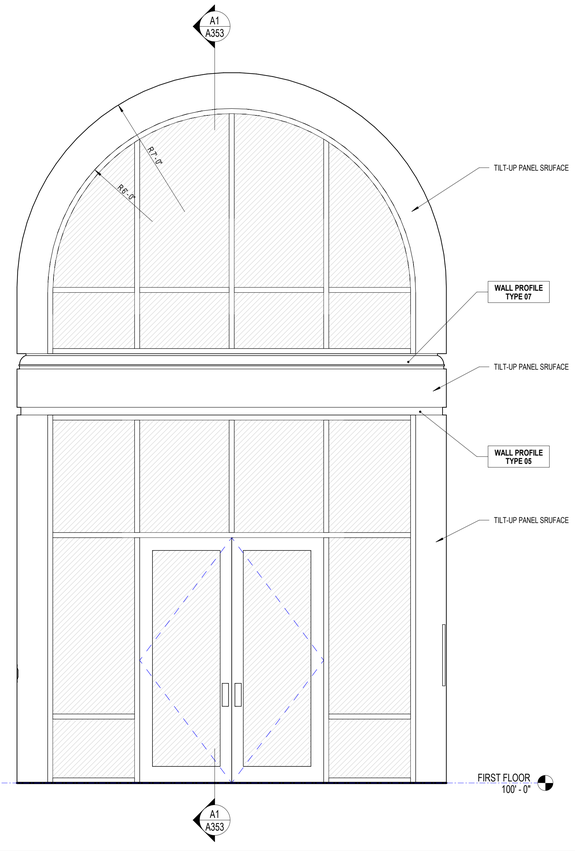


ELEVATION NOTE:
1. SEE SHEET A522 FOR EPS EXTERIOR WALL PROFILE DETAILS.



K10 — TOWER CAPITAL PROFILE PLAN DETAIL
1/2" = 1'-0"



A1 — ENLARGED ELEVATION 01
1/2" = 1'-0"

A10 — ENLARGED ELEVATION 02
1/2" = 1'-0"

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ENLARGED EXTERIOR ELEVATIONS

A221
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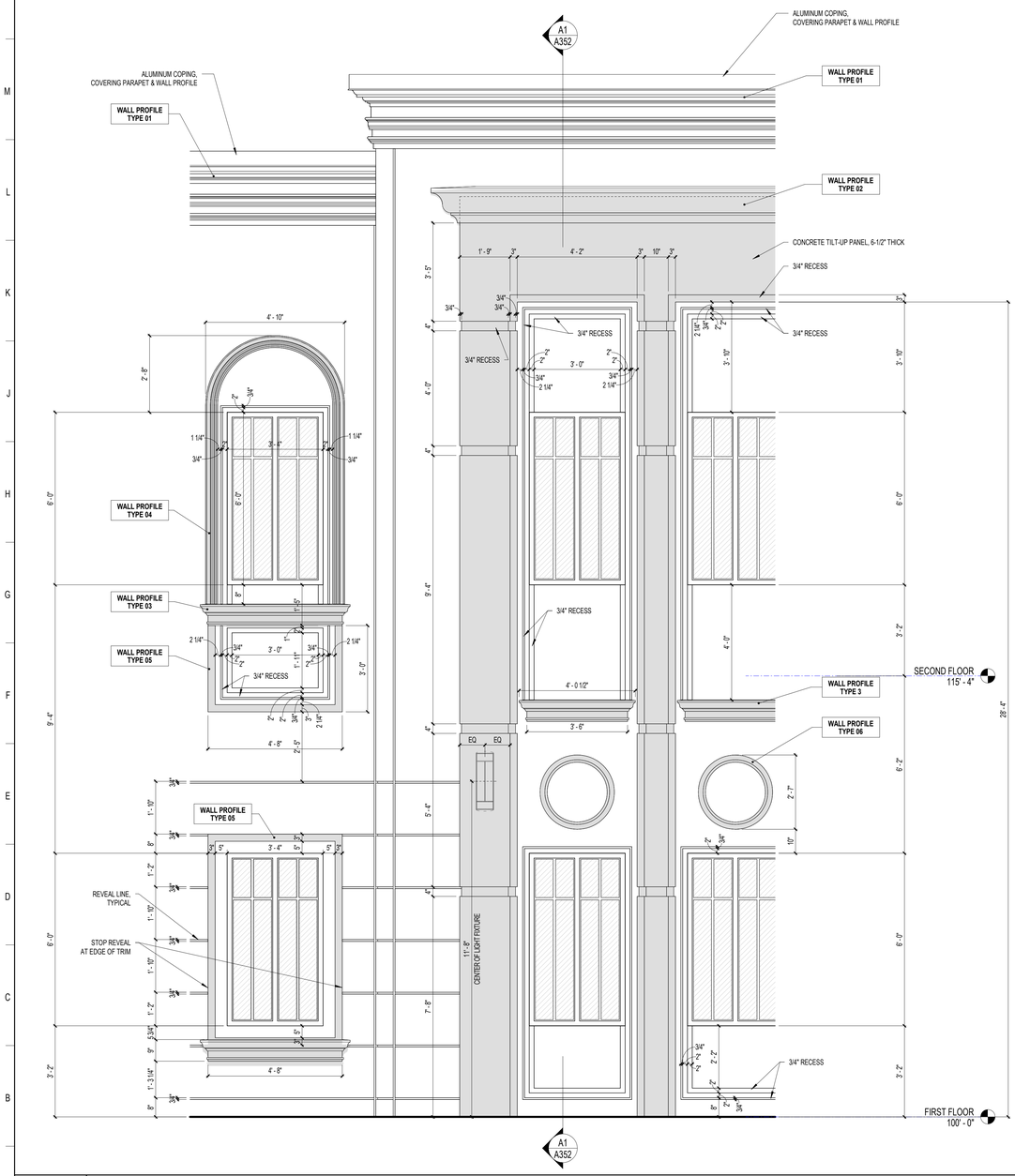
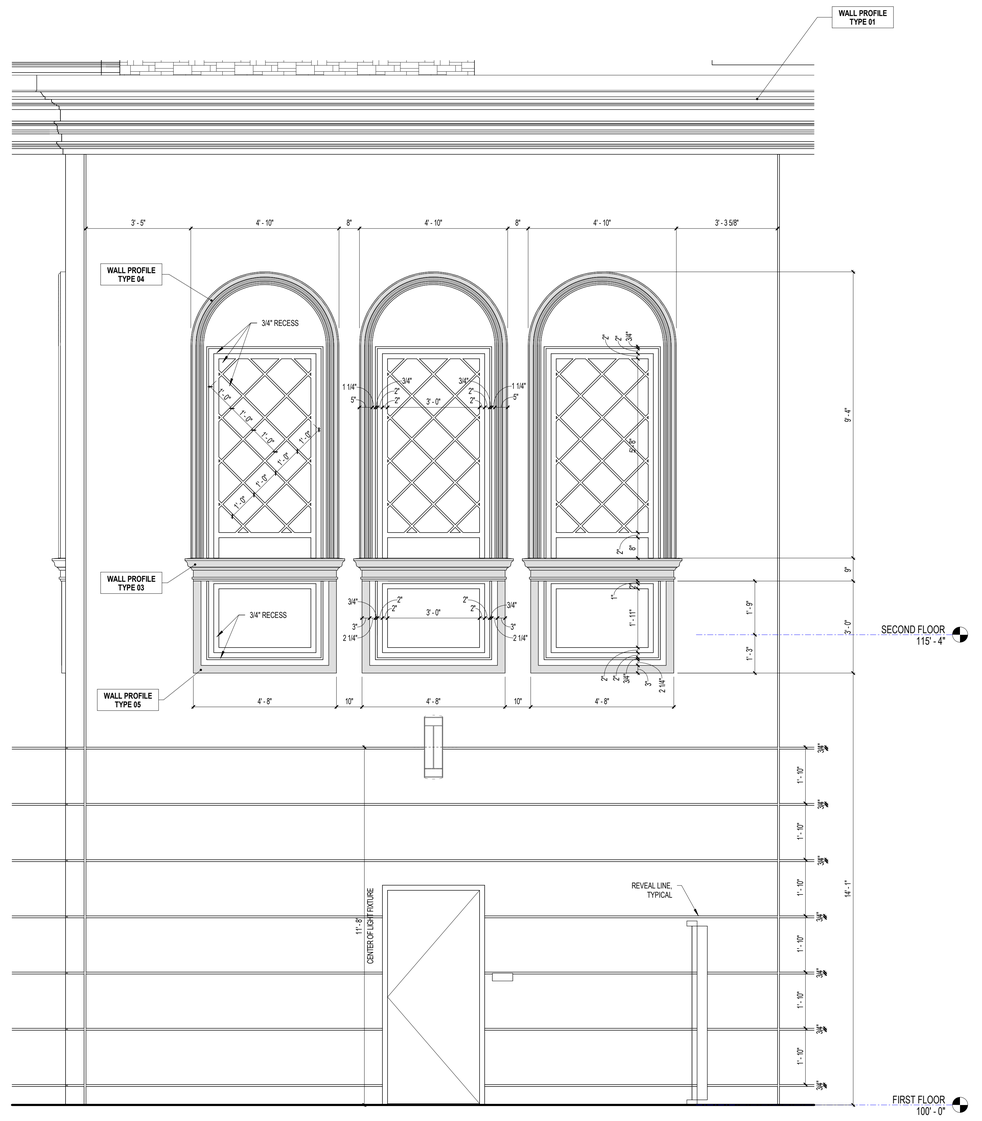
ELEVATION NOTE:
1. SEE SHEET A522 FOR EPS EXTERIOR WALL PROFILE DETAILS.



A1 ENLARGED ELEVATION 03
1/2" = 1'-0"



A10 ENLARGED ELEVATION 04
1/2" = 1'-0"

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ENLARGED EXTERIOR ELEVATIONS

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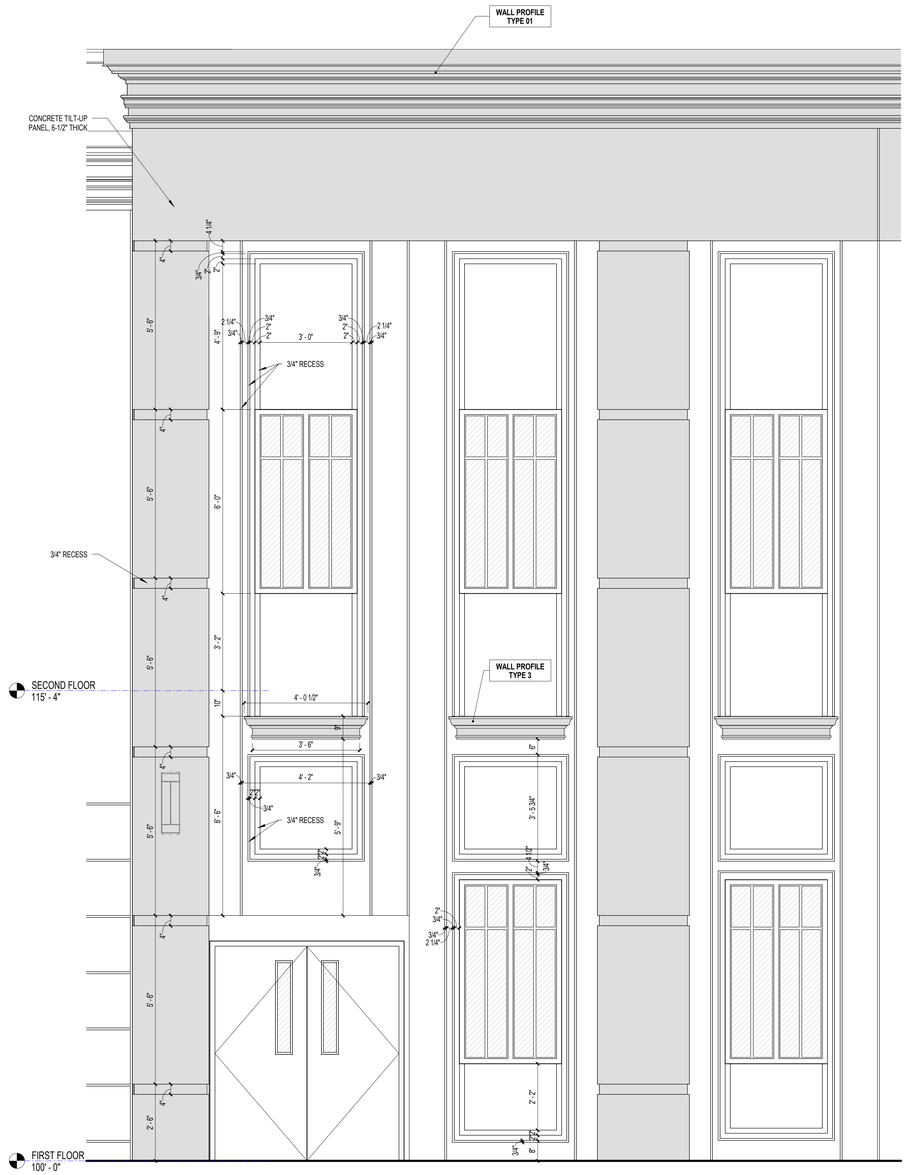
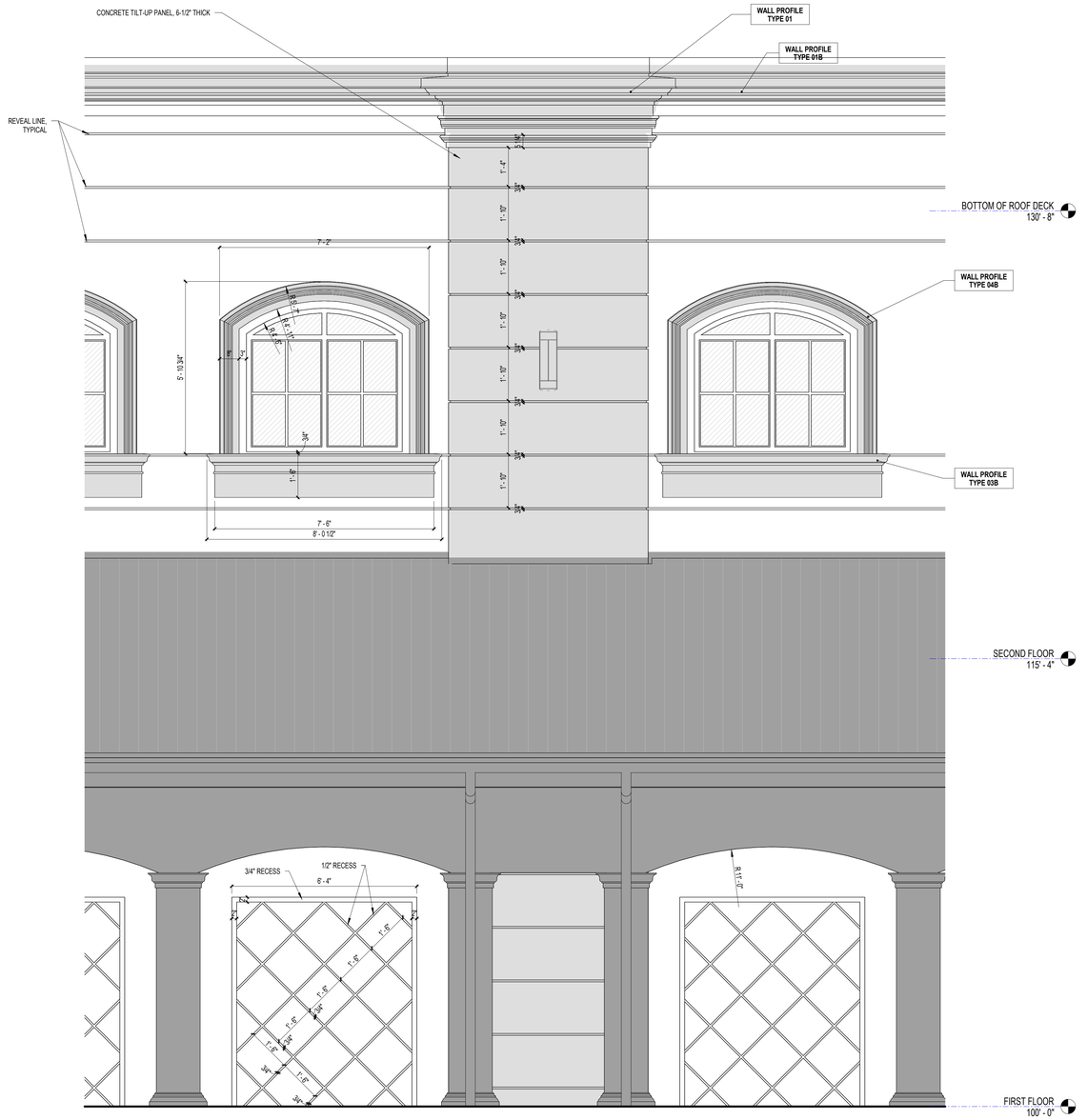
ELEVATION NOTE:
1. SEE SHEET A522 FOR EPS EXTERIOR WALL PROFILE DETAILS.



A1 ENLARGED ELEVATION 05
1/2" = 1'-0"



A9 ENLARGED ELEVATION 06
1/2" = 1'-0"

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ENLARGED EXTERIOR ELEVATIONS

A223
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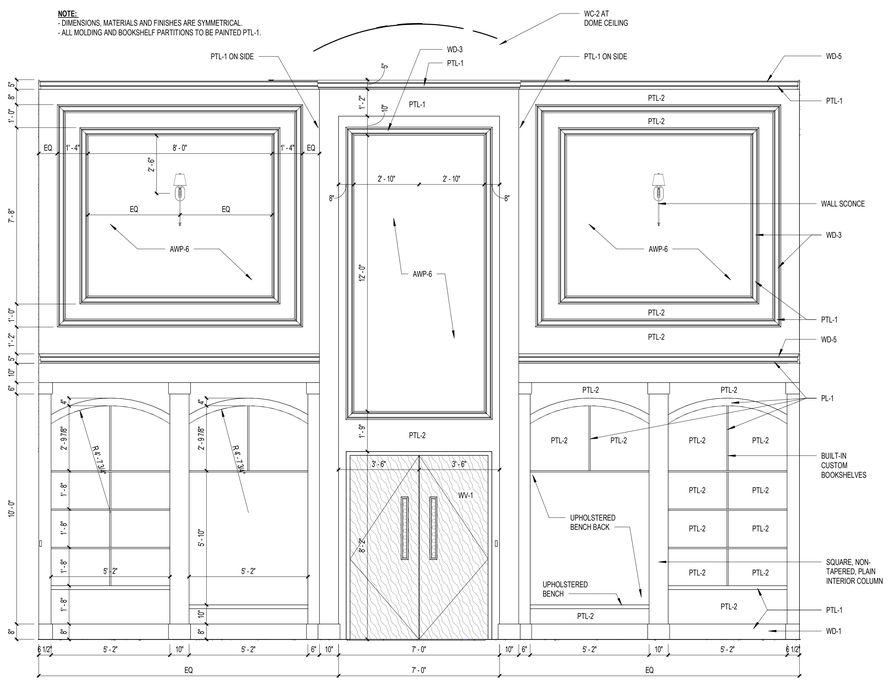
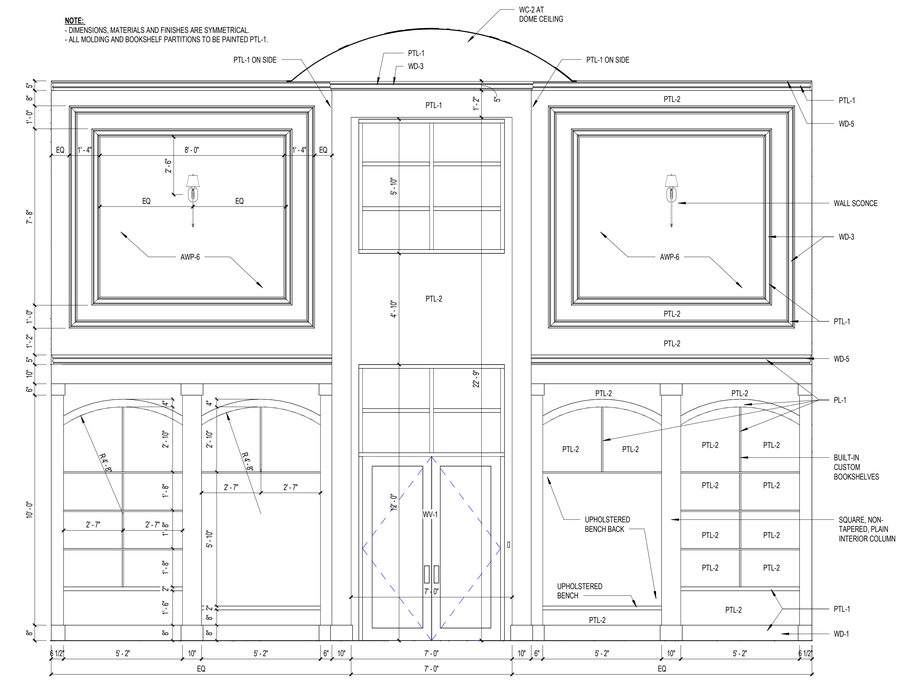


J1 LEGACY GALLERY - WEST

3/8" = 1'-0"

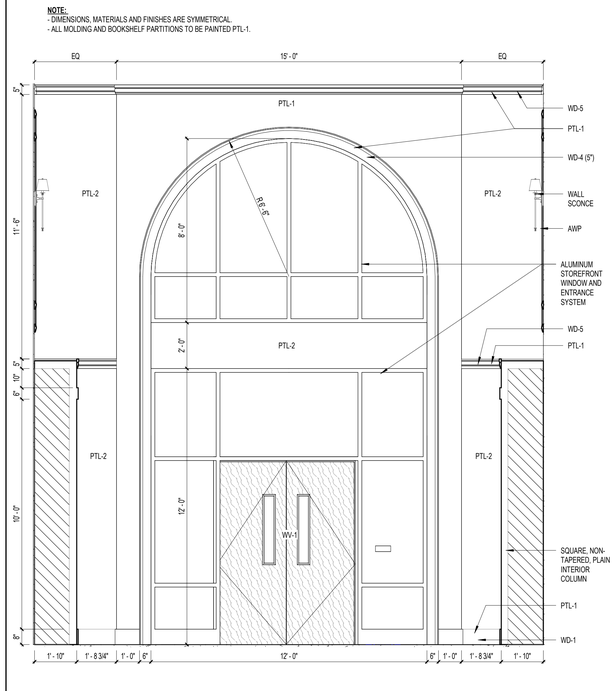
LEGACY GALLERY RENDER

NOTE: RENDERINGS FOR DESIGN INTENT ONLY.
REFER TO INTERIOR ELEVATIONS AND FLOOR PLANS FOR DIMENSIONS, SELECTED FINISHES AND ANY OTHER ELEMENT RELATED TO THE CONSTRUCTION OF THESE SPACES.



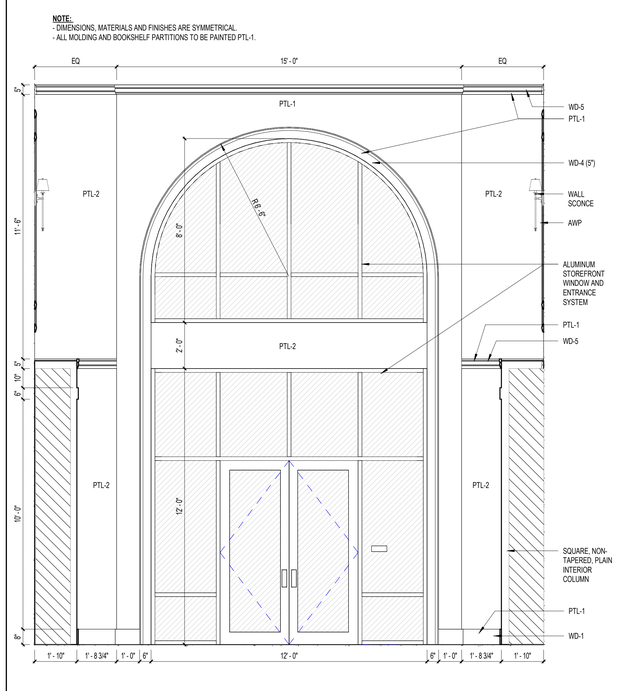
A1 LEGACY GALLERY - EAST

3/8" = 1'-0"



A9 LEGACY GALLERY - SOUTH

3/8" = 1'-0"



A14 LEGACY GALLERY - NORTH

3/8" = 1'-0"

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INTERIOR ELEVATIONS

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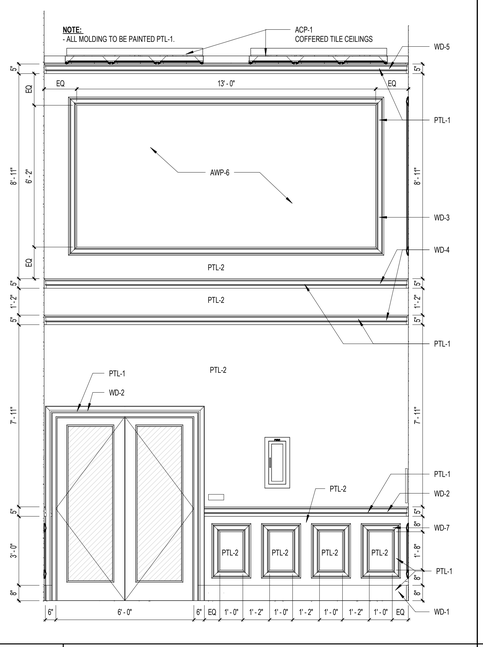
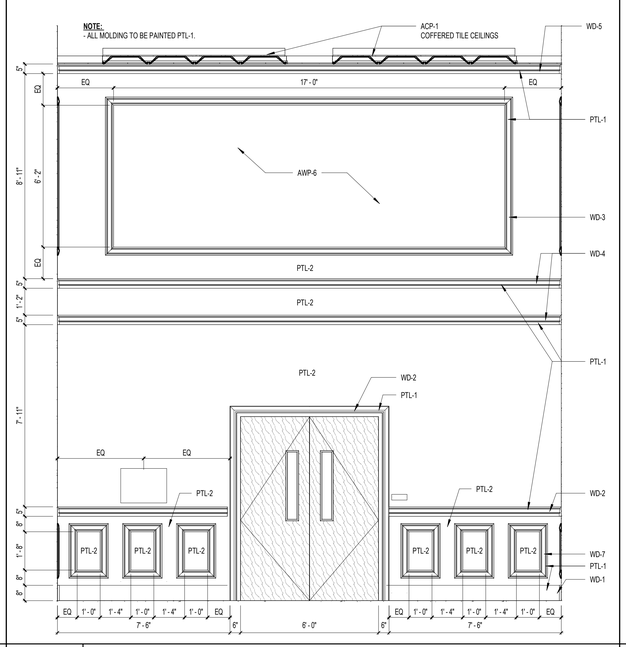


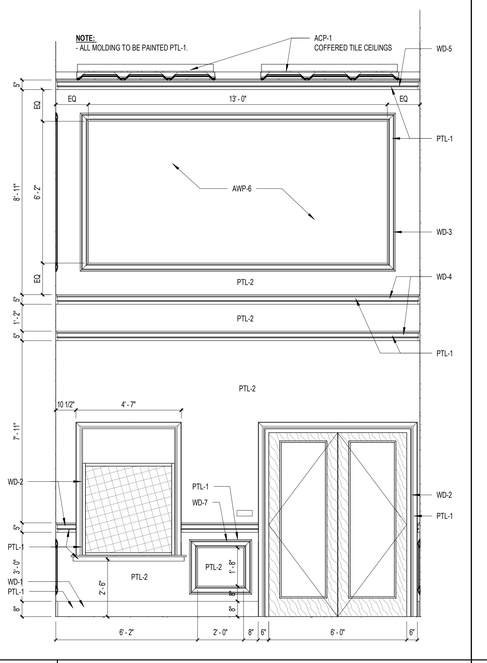
J1 — 1-101 ENTRY TOWER - WEST

3/8" = 1'-0"



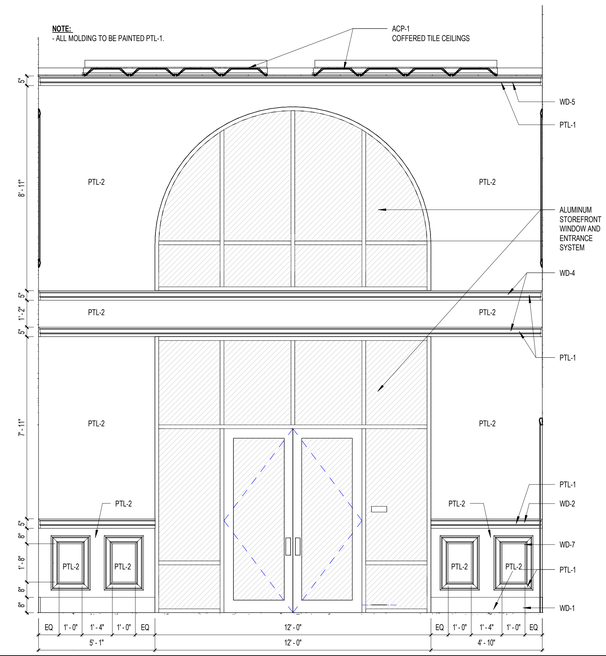
J5 — 1-101 ENTRY TOWER - NORTH

3/8" = 1'-0"



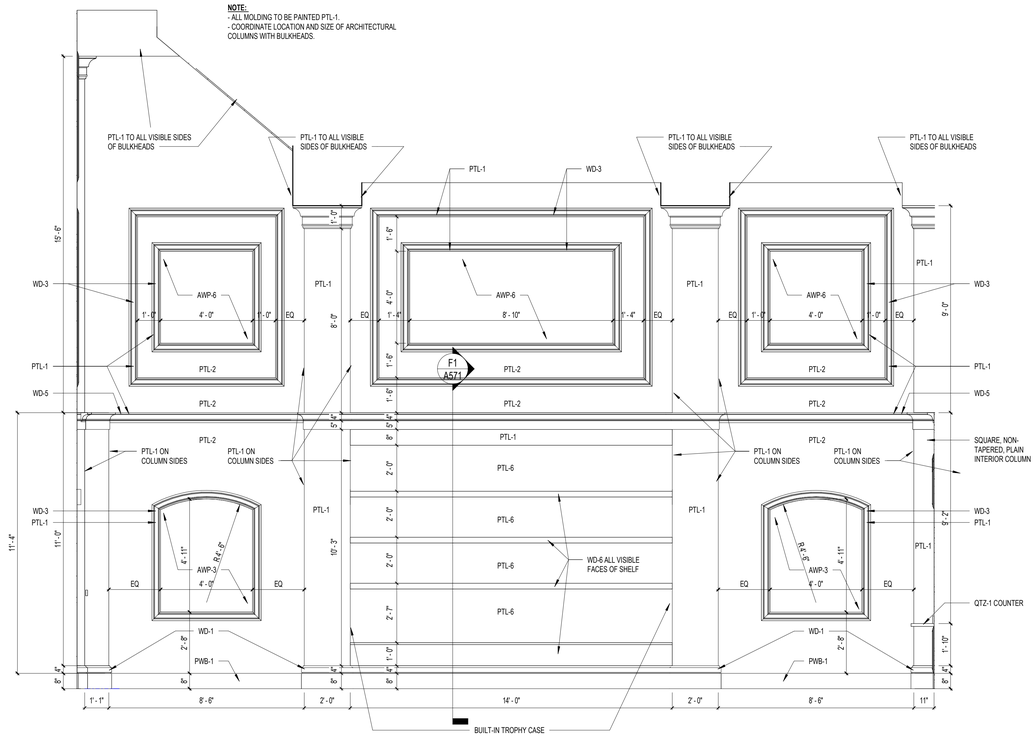
J10 — 1-101 ENTRY TOWER - EAST

3/8" = 1'-0"



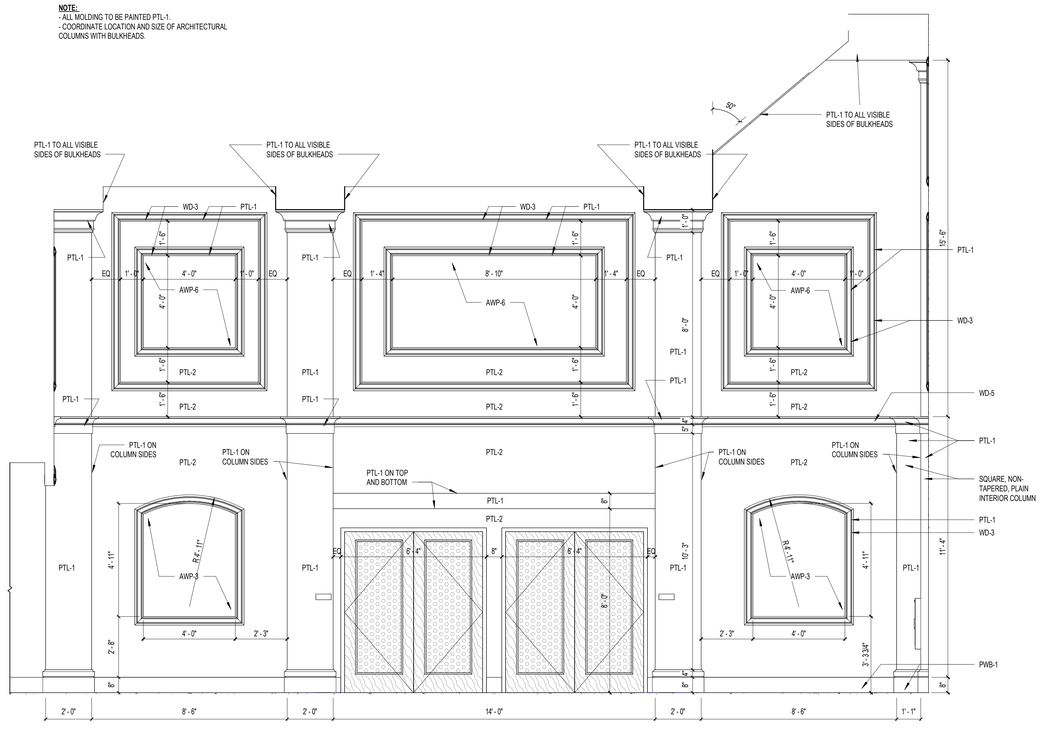
J14 — 1-101 ENTRY TOWER - SOUTH

3/8" = 1'-0"



A1 — ELEVATION AT GYM LOBBY

3/8" = 1'-0"



A10 — ELEVATION AT GYM ENTRY

3/8" = 1'-0"

VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
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INTERIOR ELEVATIONS

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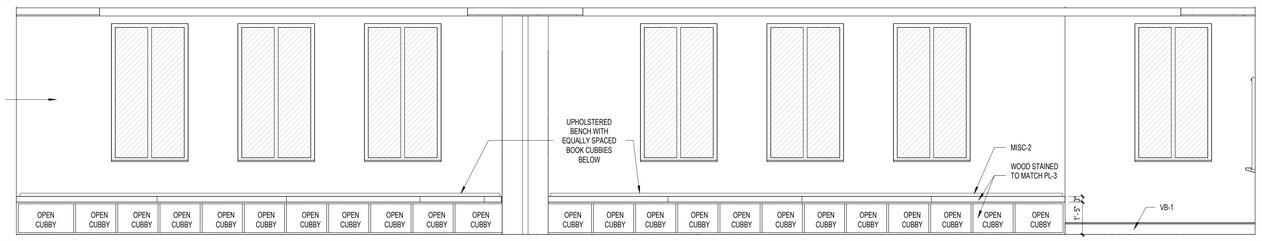
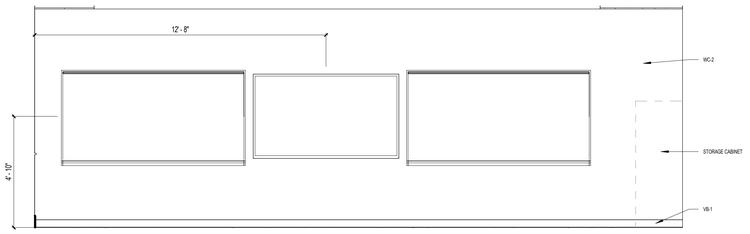


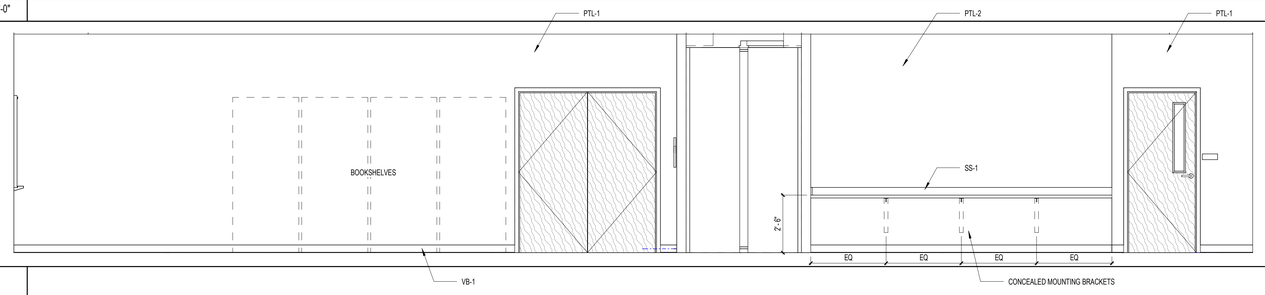
P1 ELEVATION AT LIBRARY

3/8" = 1'-0"



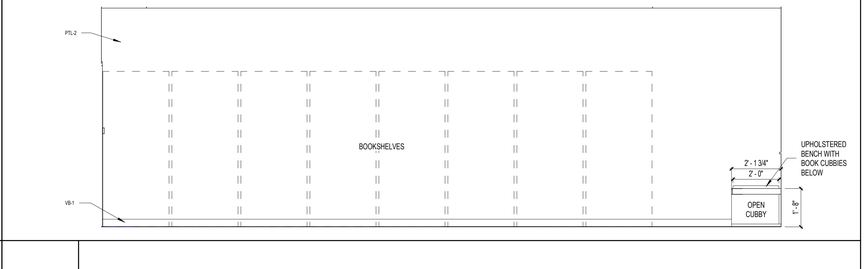
M12 ELEVATION AT LIBRARY TEACHING WALL

3/8" = 1'-0"



L1 ELEVATION AT LIBRARY-COMPUTER STATIONS

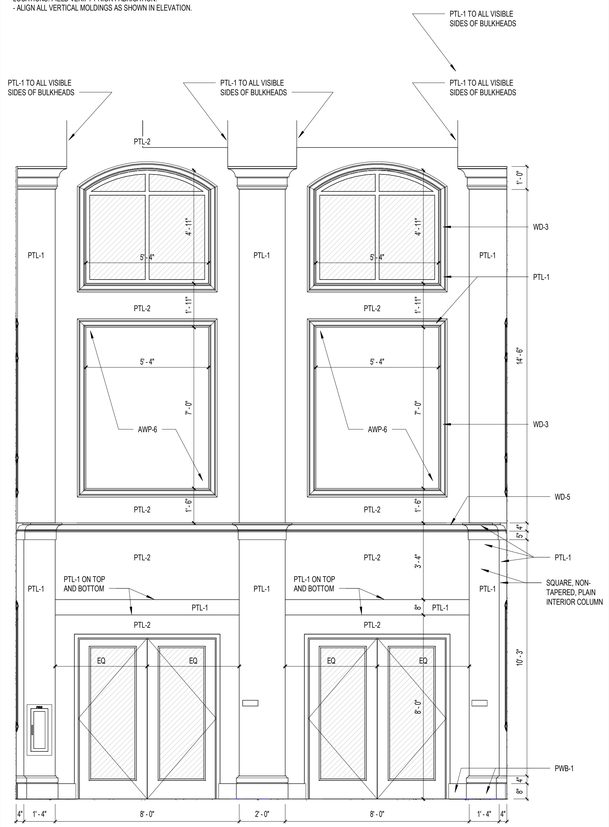
3/8" = 1'-0"



L12 ELEVATION AT LIBRARY BOOKSHELVES

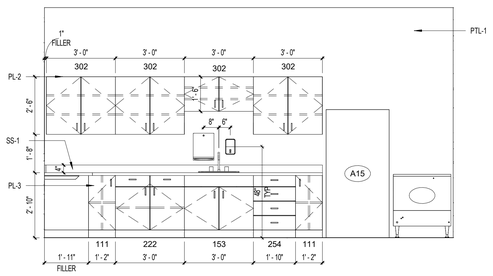
3/8" = 1'-0"

NOTE:
- ALL MOLDING TO BE PAINTED PTL-1.
- COORDINATE LOCATION AND SIZE OF ARCHITECTURAL COLUMNS WITH BULKHEADS.
- COORDINATE MOLDING DIMENSIONING WITH WINDOWS' LOCATIONS. FIELD VERIFY PRIOR FABRICATION.
- ALIGN ALL VERTICAL MOLDINGS AS SHOWN IN ELEVATION.



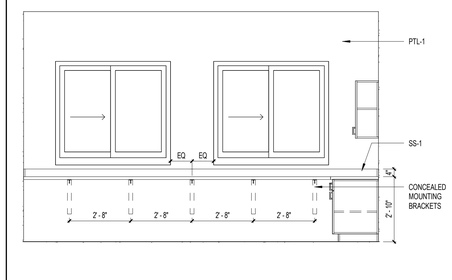
A1 GYM LOBBY ENTRY

3/8" = 1'-0"



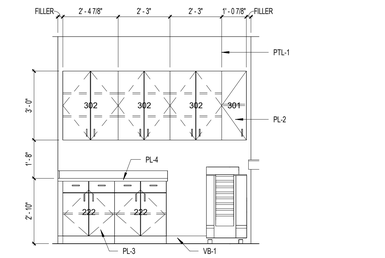
G6 CONCESSION ELEVATION - 1

3/8" = 1'-0"



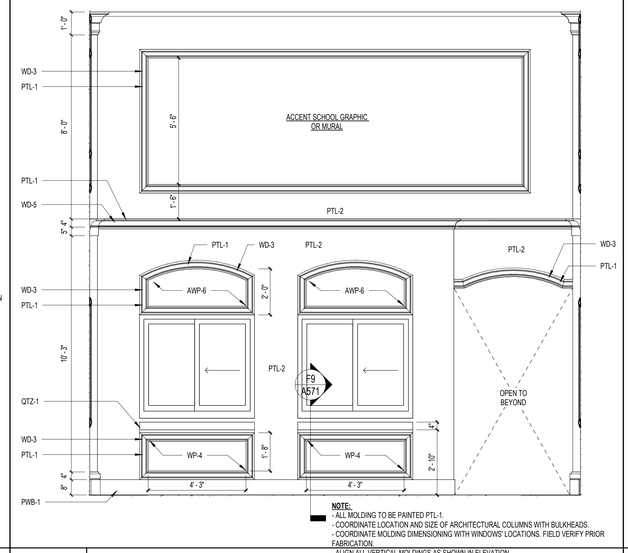
G11 CONCESSION ELEVATION 2

3/8" = 1'-0"



G15 COPY STATION

3/8" = 1'-0"



NOTE:
- ALL MOLDING TO BE PAINTED PTL-1.
- COORDINATE LOCATION AND SIZE OF ARCHITECTURAL COLUMNS WITH BULKHEADS.
- COORDINATE MOLDING DIMENSIONING WITH WINDOWS' LOCATIONS. FIELD VERIFY PRIOR FABRICATION.
- ALIGN ALL VERTICAL MOLDINGS AS SHOWN IN ELEVATION.

A6 ELEVATION AT CONCESSIONS

3/8" = 1'-0"

GYM LOBBY ENTRY RENDER

NOTE: RENDERINGS FOR DESIGN INTENT ONLY.
REFER TO INTERIOR ELEVATIONS AND FLOOR PLANS FOR DIMENSIONS, SELECTED FINISHES AND ANY OTHER ELEMENT RELATED TO THE CONSTRUCTION OF THESE SPACES.

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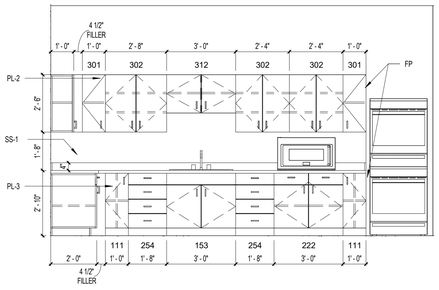
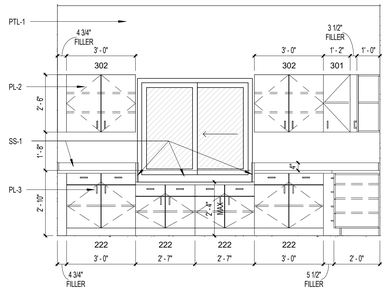


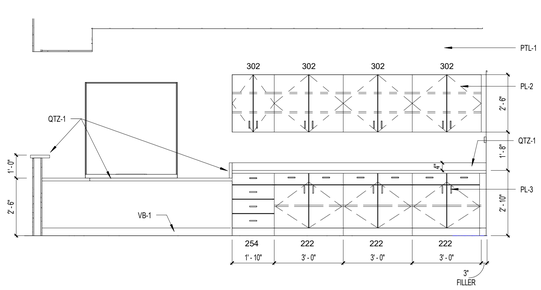
N1 STAFF BREAK RM-1

3/8" = 1'-0"



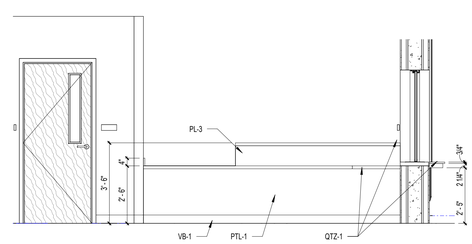
N5 STAFF BREAK RM-2

3/8" = 1'-0"



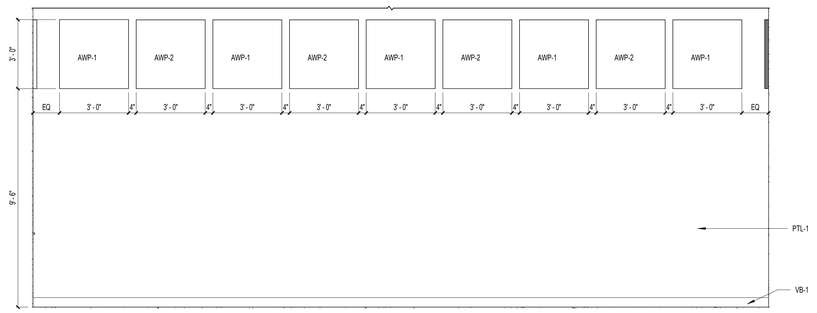
N9 RECEPTION DESK

3/8" = 1'-0"



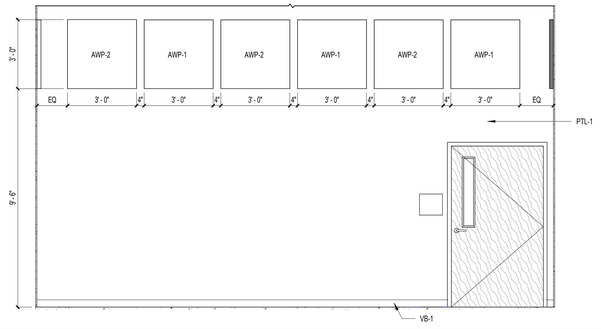
N14 RECEPTION DESK

3/8" = 1'-0"



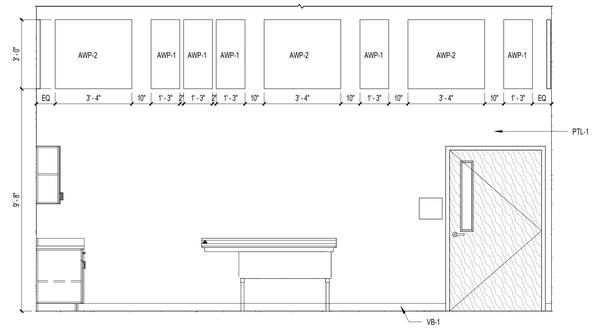
J1 ELEVATION AT DRAMA-3

3/8" = 1'-0"



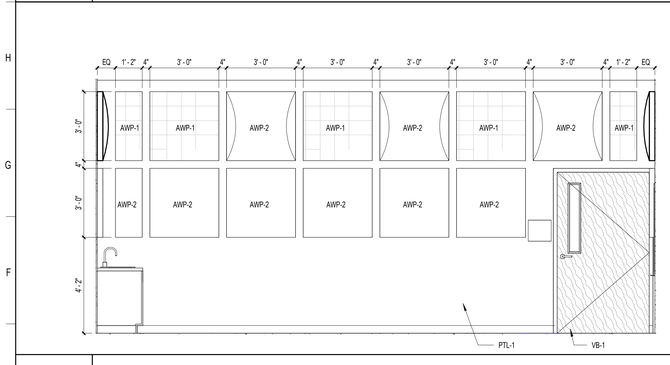
J8 ELEVATION AT DRAMA-4

3/8" = 1'-0"



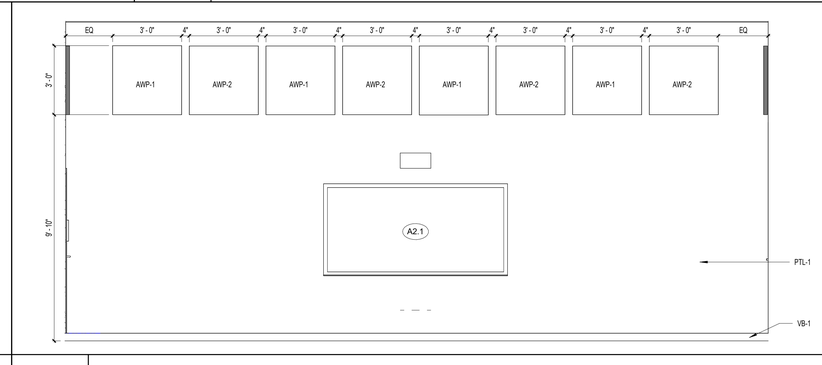
J14 ELEVATION AT ART-4

3/8" = 1'-0"



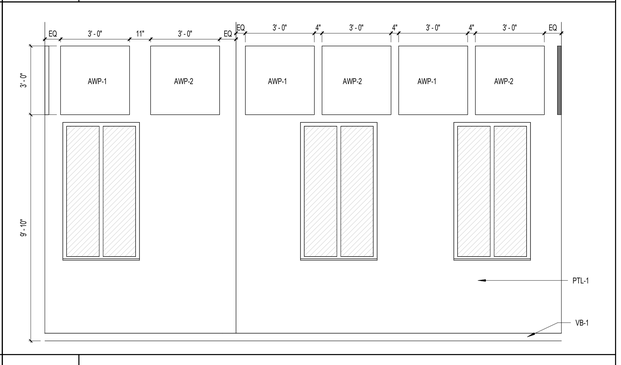
E1 ELEVATION AT MUSIC-4

3/8" = 1'-0"



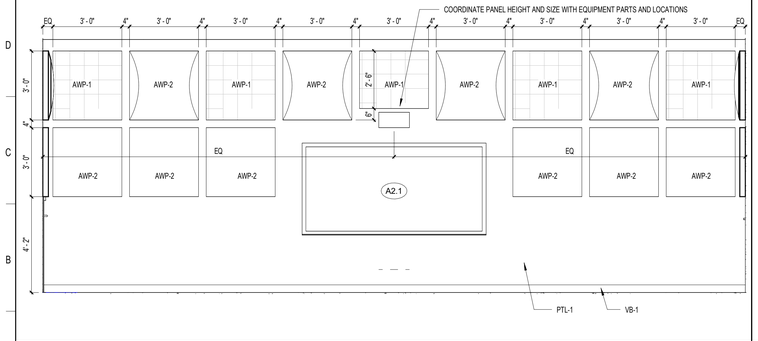
E7 ELEVATION AT DRAMA-1

3/8" = 1'-0"



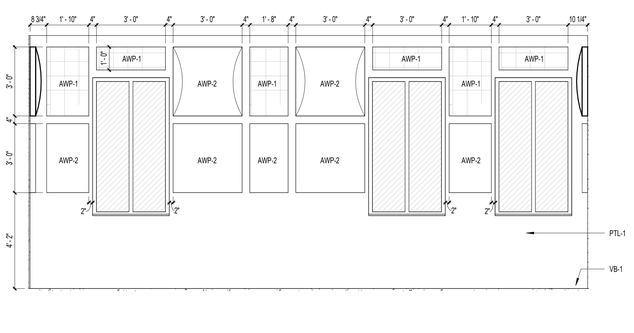
E14 ELEVATION AT DRAMA-2

3/8" = 1'-0"



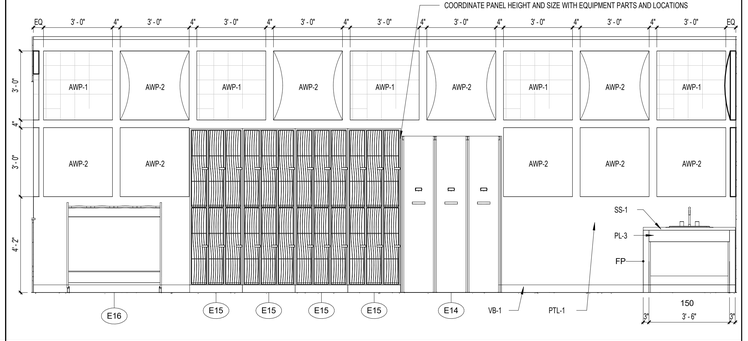
A1 ELEVATION AT MUSIC-1

3/8" = 1'-0"



A7 ELEVATION AT MUSIC-2

3/8" = 1'-0"



A13 ELEVATION AT MUSIC-3

3/8" = 1'-0"

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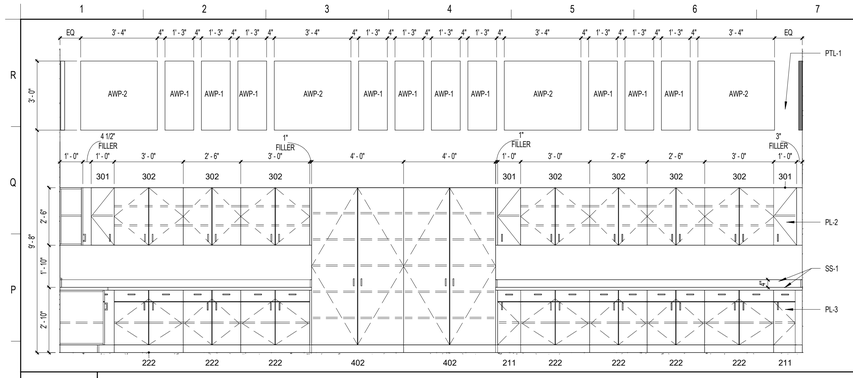
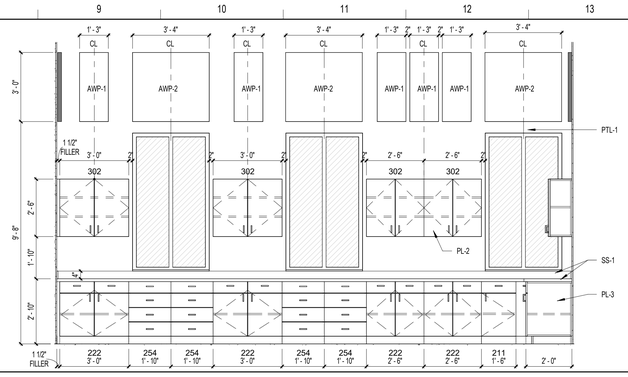


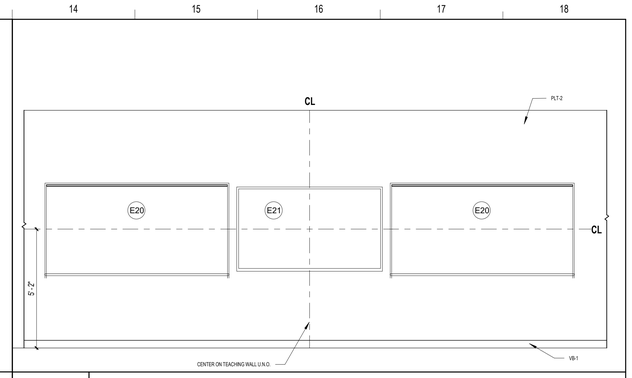
N1 ART ROOM-3

3/8" = 1'-0"



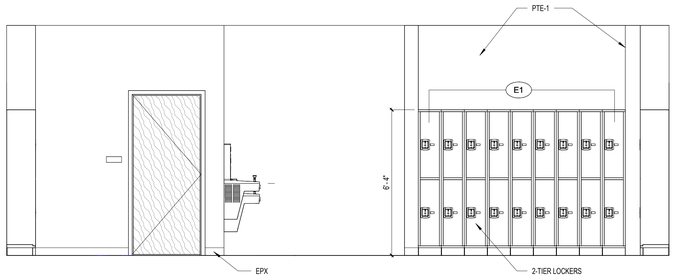
N8 ART ROOM- 2

3/8" = 1'-0"



N14 TYPICAL TEACHING WALL

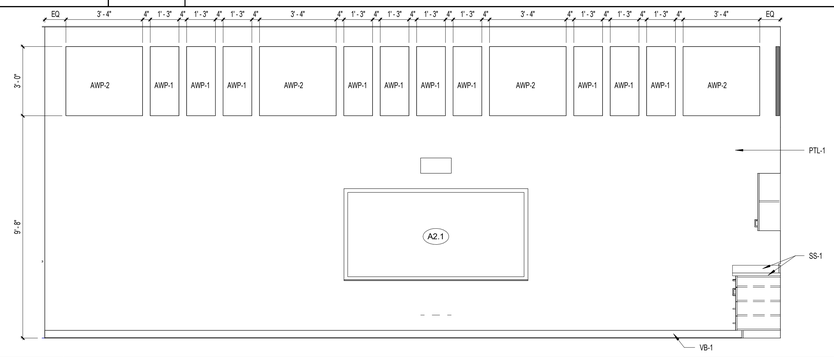
3/8" = 1'-0"



K1 BOYS LOCKER RM 3

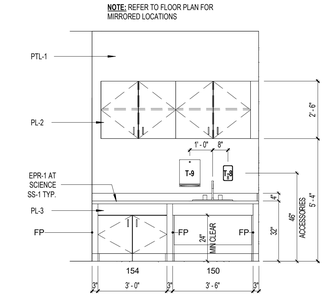
3/8" = 1'-0"

GIRLS LOCKER ROOM SIM./OPP. HAND



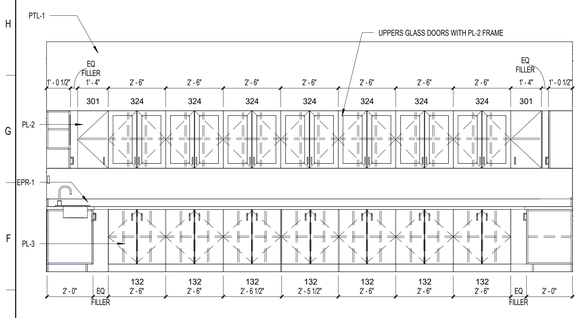
K7 ART ROOM-1

3/8" = 1'-0"



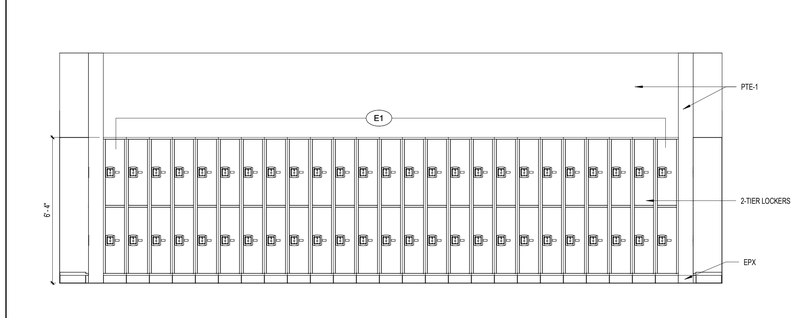
K14 TYP. SINK CLASSRM

3/8" = 1'-0"



E1 ELEVATION AT SCIENCE ROOM 3

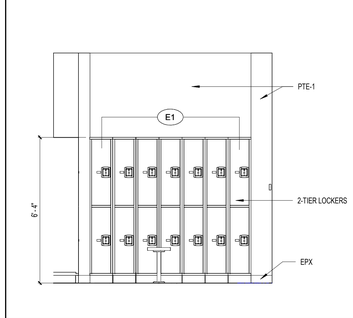
3/8" = 1'-0"



E6 BOYS LOCKER RM 1

3/8" = 1'-0"

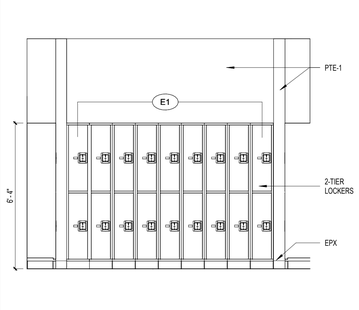
GIRLS LOCKER ROOM SIM./OPP. HAND



E13 BOYS LOCKER RM 2

3/8" = 1'-0"

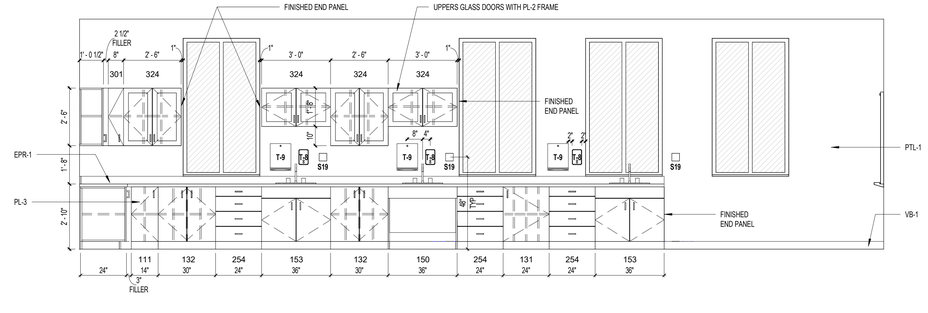
GIRLS LOCKER ROOM SIM./OPP. HAND



E16 BOYS LOCKER RM 4

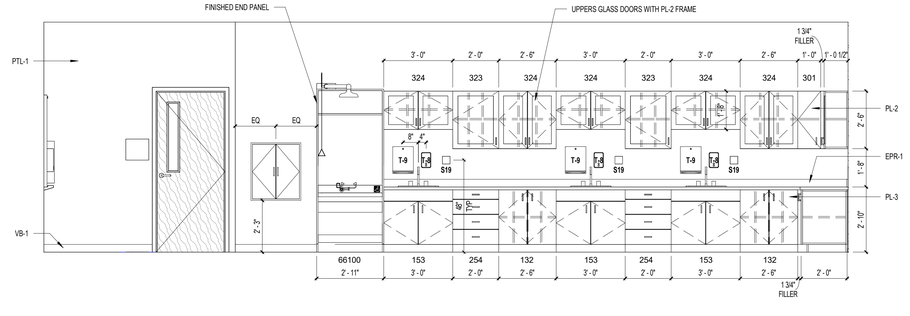
3/8" = 1'-0"

GIRLS LOCKER ROOM SIM./OPP. HAND



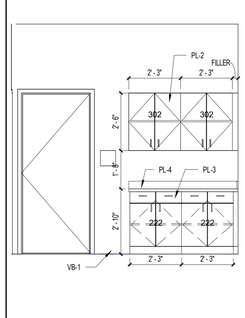
A1 ELEVATION AT SCIENCE RM 1

3/8" = 1'-0"



A9 ELEVATION AT SCIENCE RM 2

3/8" = 1'-0"



A17 CLINIC

3/8" = 1'-0"

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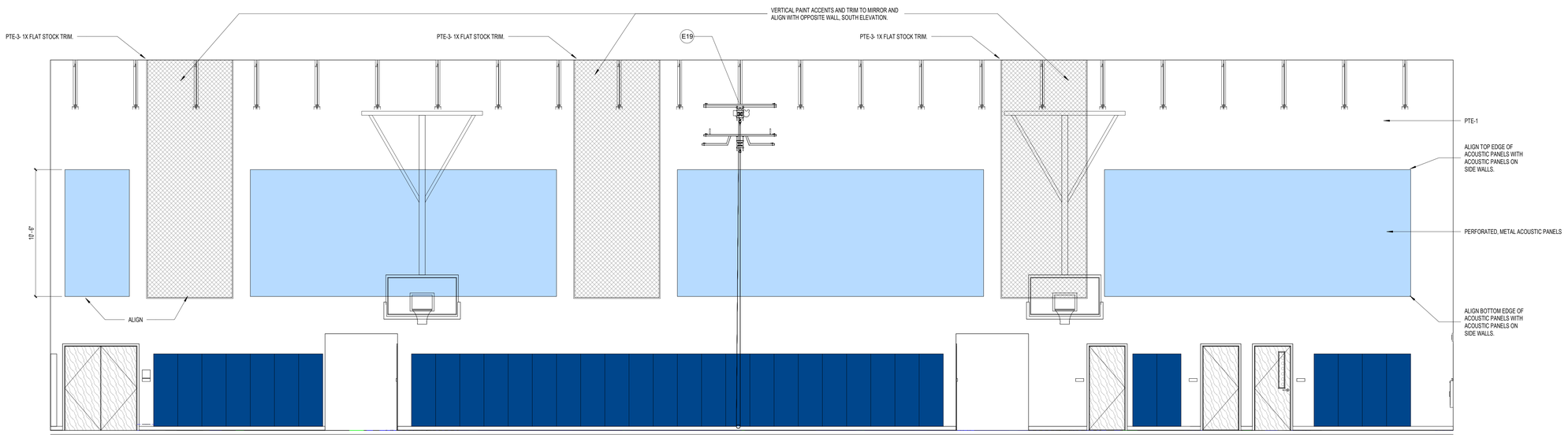
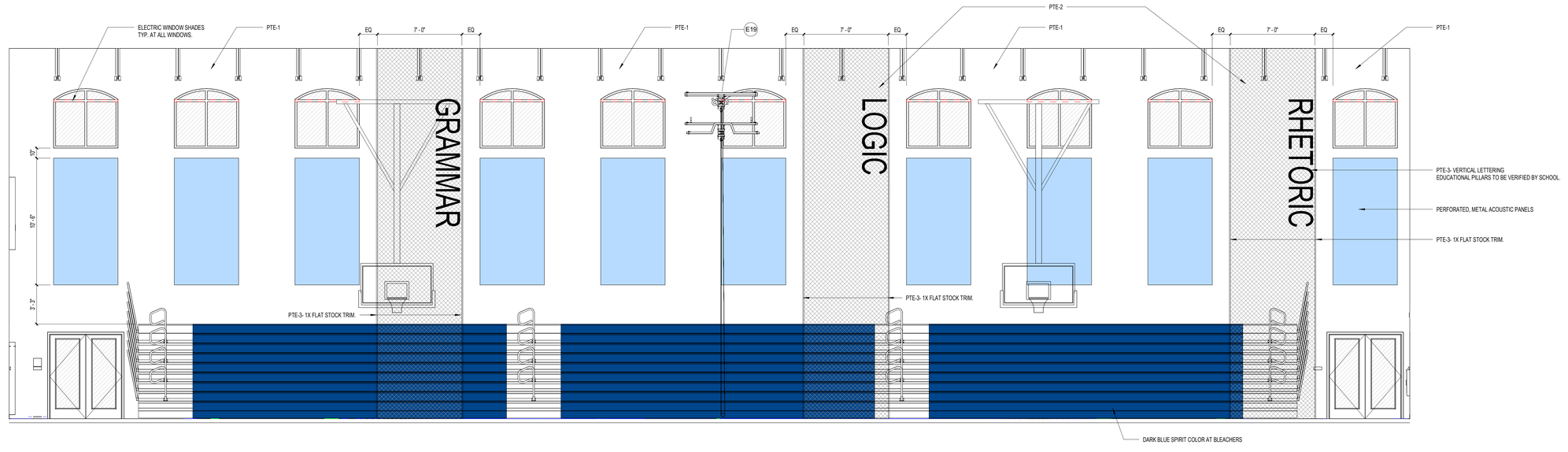


J1 GYMNASIUM INTERIOR ELEVATION - NORTH

1/4" = 1'-0"



A1 GYMNASIUM INTERIOR ELEVATION - SOUTH

1/4" = 1'-0"

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INTERIOR ELEVATIONS - GYMNASIUM

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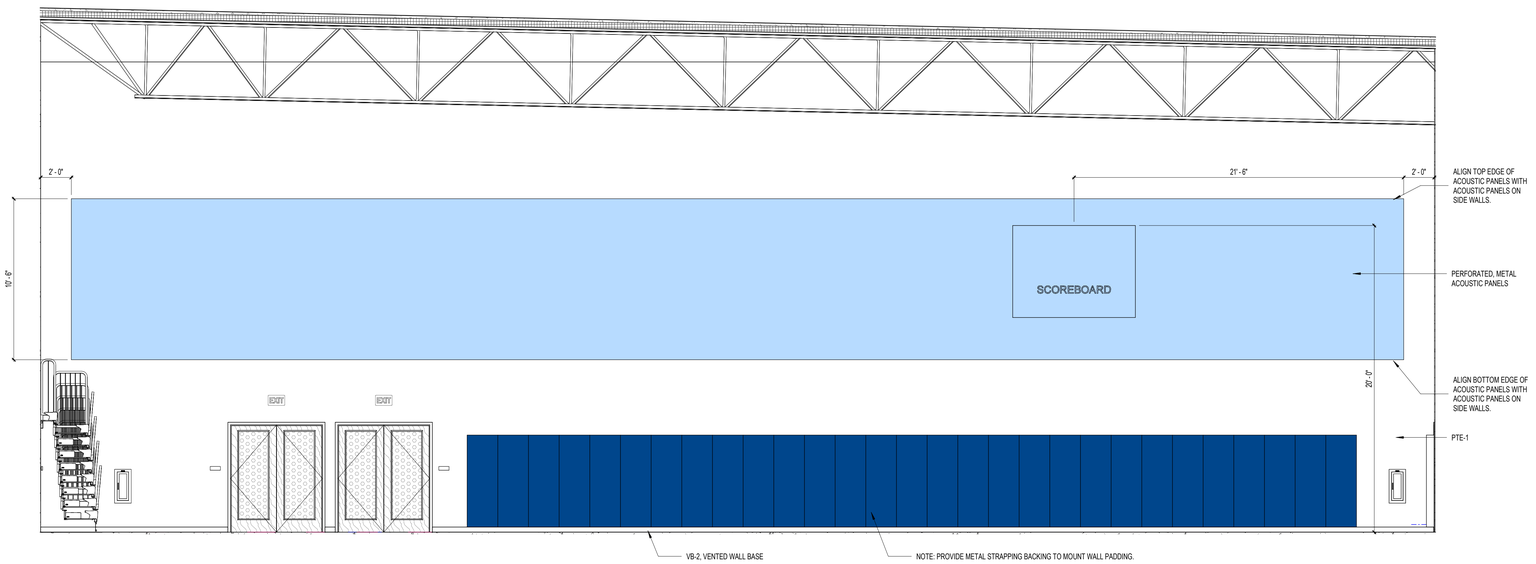
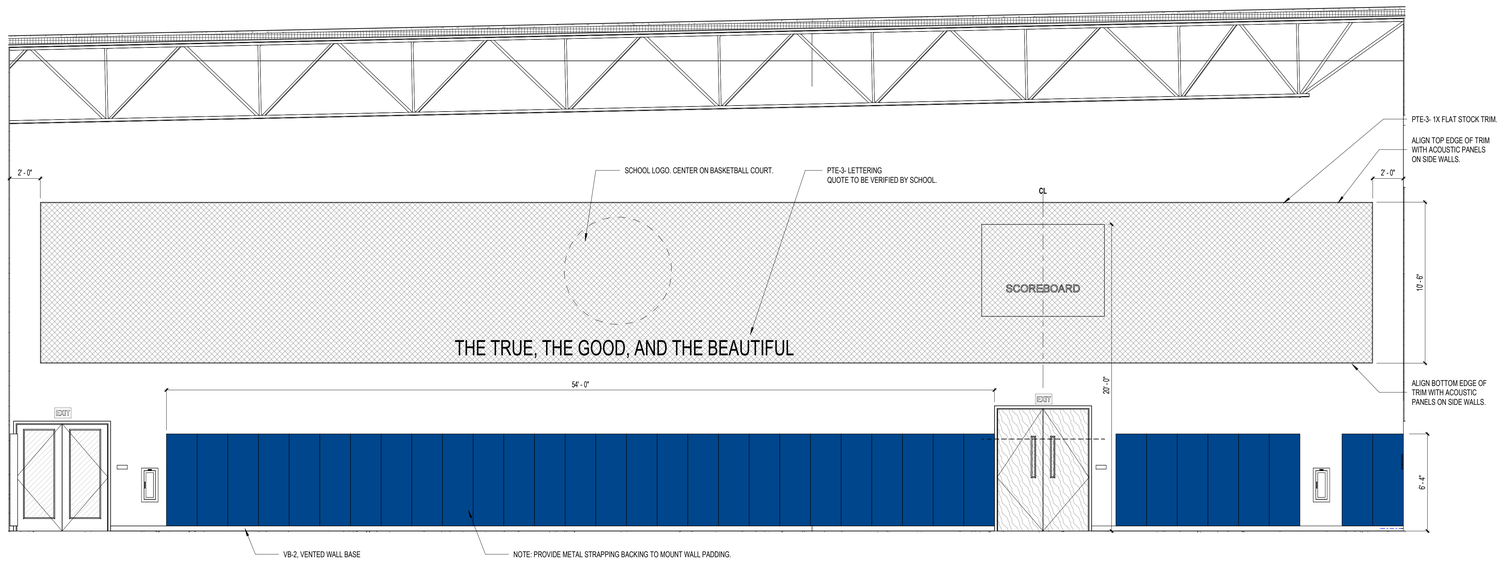


J1 GYMNASIUM INTERIOR ELEVATION - WEST

1/4" = 1'-0"



A1 GYMNASIUM INTERIOR ELEVATION - EAST

1/4" = 1'-0"

GYMNASIUM RENDER

NOTE: RENDERINGS FOR DESIGN INTENT ONLY.
REFER TO INTERIOR ELEVATIONS AND FLOOR PLANS FOR DIMENSIONS, SELECTED FINISHES AND ANY OTHER ELEMENT RELATED TO THE CONSTRUCTION OF THESE SPACES.

VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
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INTERIOR ELEVATIONS - GYMNASIUM

A257
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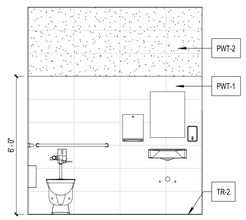
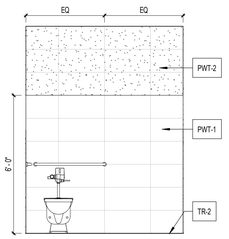
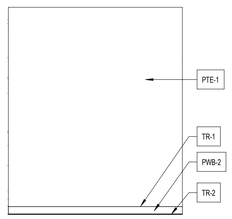


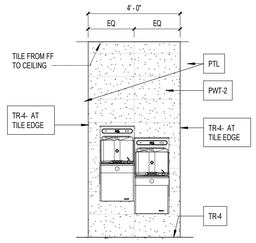
N1 TYPICAL STAFF RESTROOM
3/8" = 1'-0"



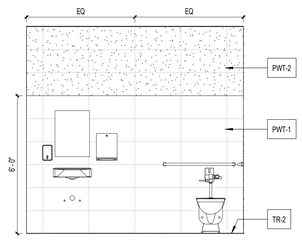
N4 TYPICAL PRIMARY RESTROOM
3/8" = 1'-0"



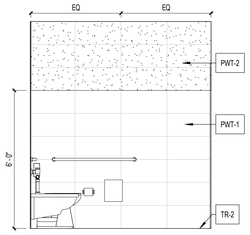
N7 TYPICAL NON-WET WALL AT RESTROOMS
3/8" = 1'-0"



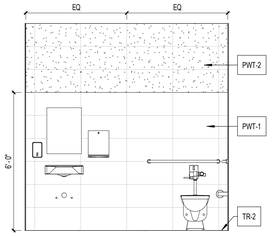
N10 TYPICAL WATER FOUNTAIN ELEVATION
3/8" = 1'-0"



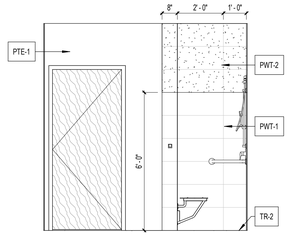
N13 STAFF R.
3/8" = 1'-0"



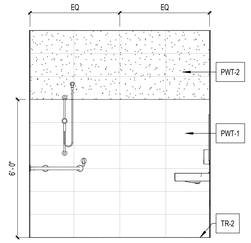
J1 TYPICAL GYM RESTROOM
3/8" = 1'-0"



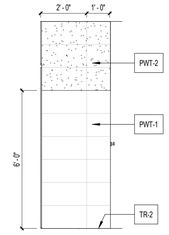
J4 TYPICAL GYM RESTROOM
3/8" = 1'-0"



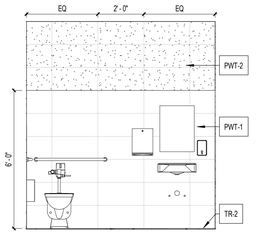
J7 TYPICAL GYM RESTROOM
3/8" = 1'-0"



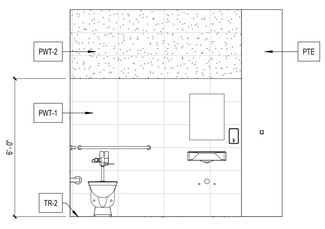
J10 TYPICAL GYM RESTROOM
3/8" = 1'-0"



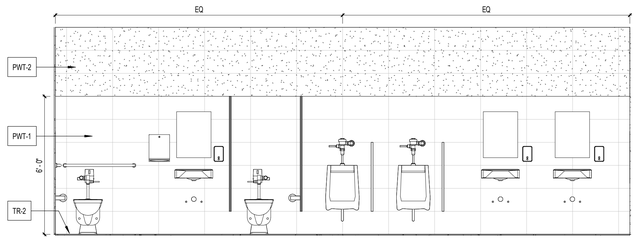
J13 TYPICAL GYM RESTROOM
3/8" = 1'-0"



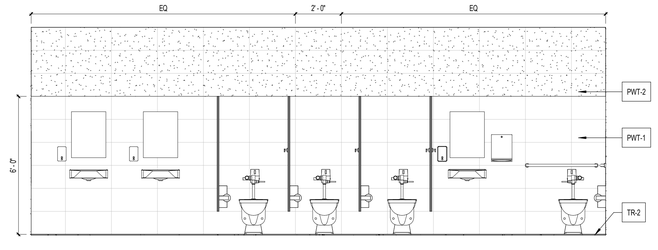
J16 CLINIC RESTROOM
3/8" = 1'-0"



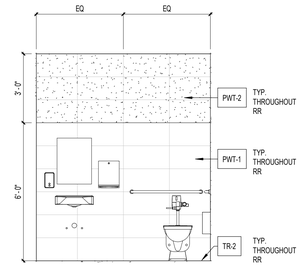
E1 GYM GROUP RESTROOM_FAMILY
3/8" = 1'-0"



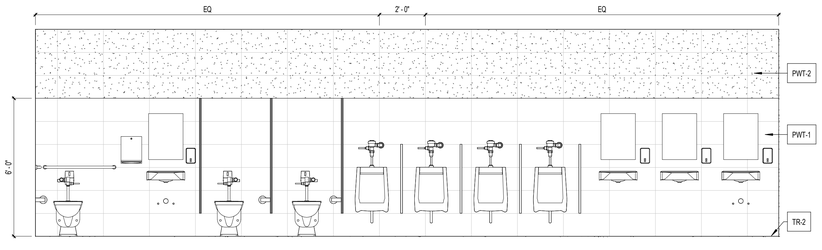
E4 CLASS ROOM GROUP RESTROOM_BOYS
3/8" = 1'-0"



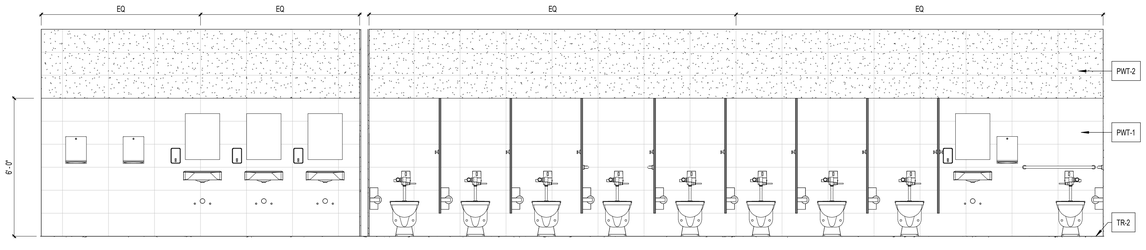
E10 CLASS ROOM GROUP RESTROOM_GIRLS
3/8" = 1'-0"



E16 OUTDOOR DINING RESTROOM
3/8" = 1'-0"
TYPICAL FOR ALL WALLS IN RESTROOMS



A1 GYM GROUP RESTROOM_MALE
3/8" = 1'-0"



A9 GYM GROUP RESTROOM_FEMALE
3/8" = 1'-0"

VERO CLASSICAL SCHOOL

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51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

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TOILET ROOM ELEVATIONS

A261
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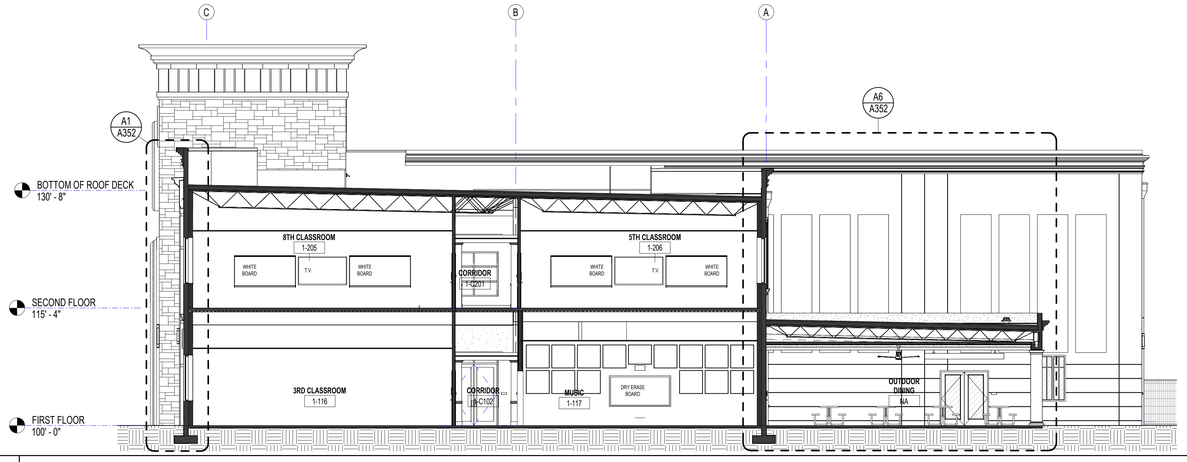
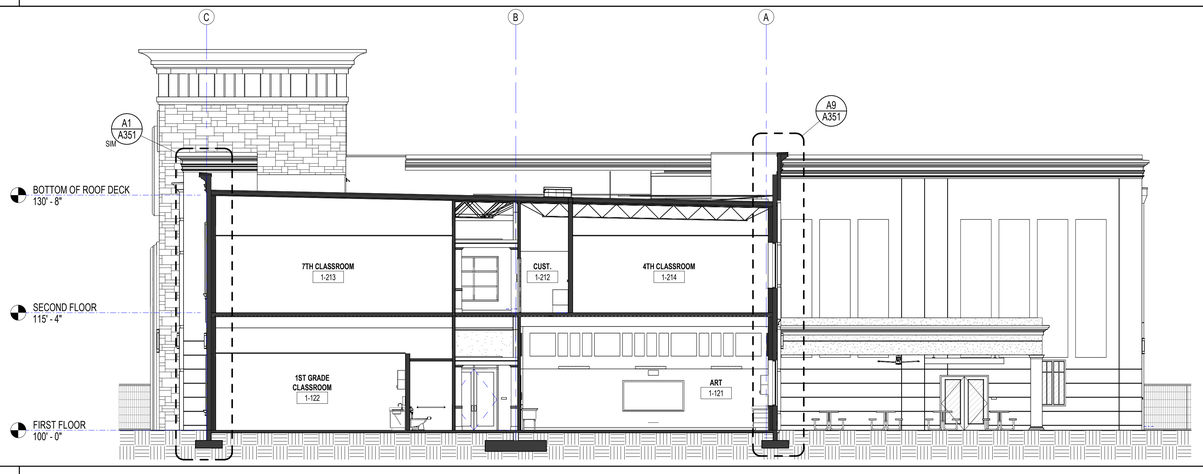


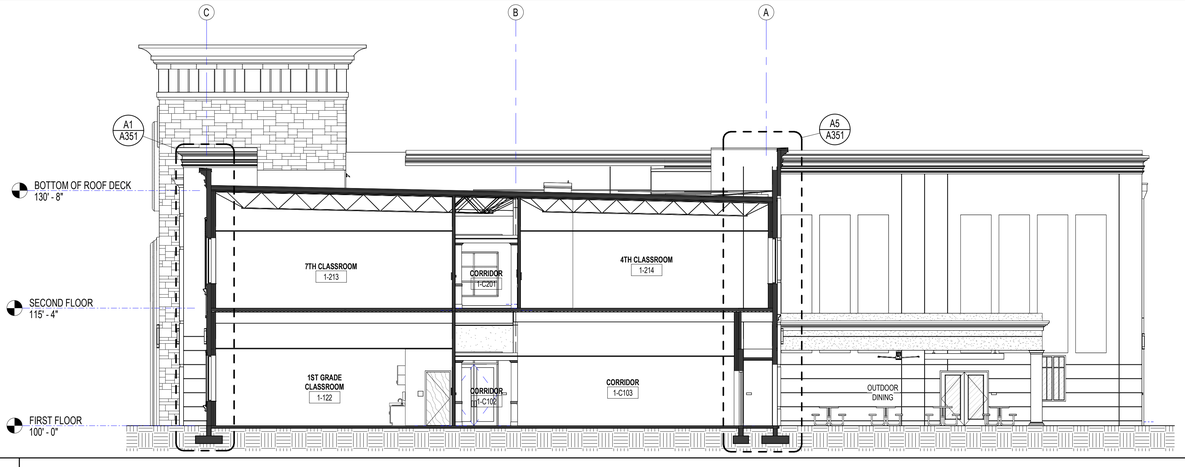
L1 BUILDING SECTION_NS 03

1/8" = 1'-0"



F1 BUILDING SECTION_NS 02

1/8" = 1'-0"



A1 BUILDING SECTION_NS 01

1/8" = 1'-0"

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VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

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BUILDING SECTIONS

A301

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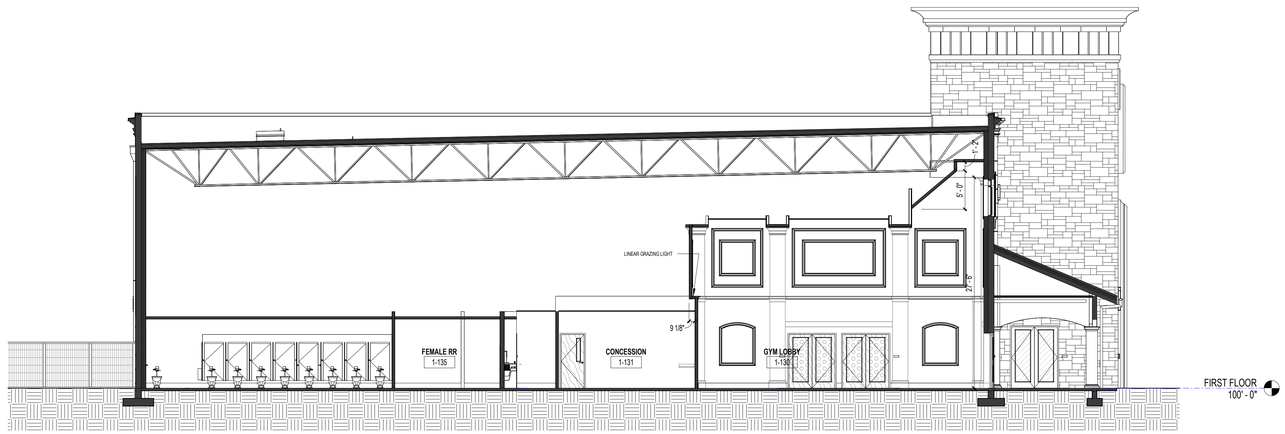

L1 BUILDING SECTION_NS 06

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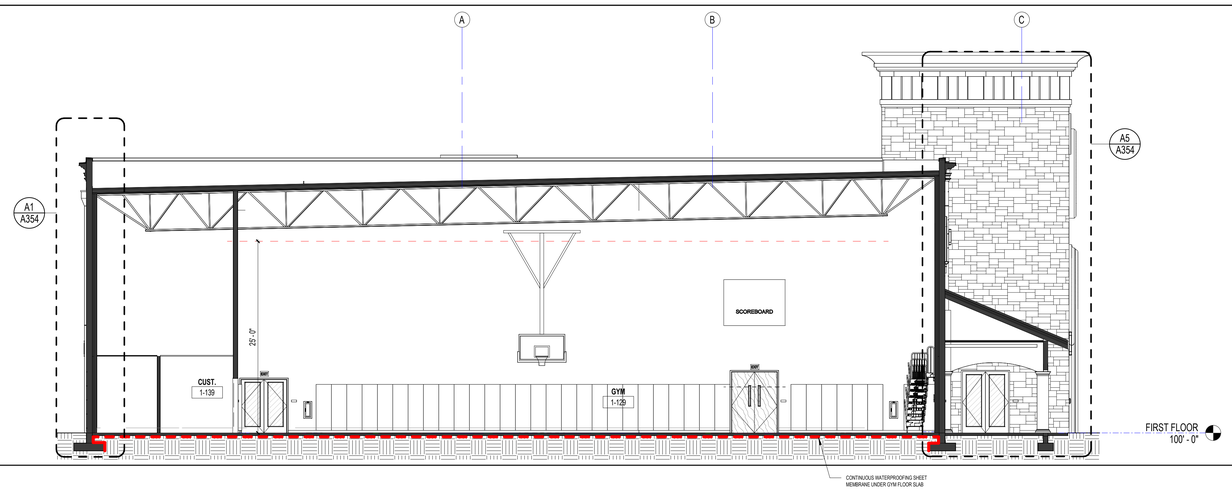

F1 BUILDING SECTION_NS 05

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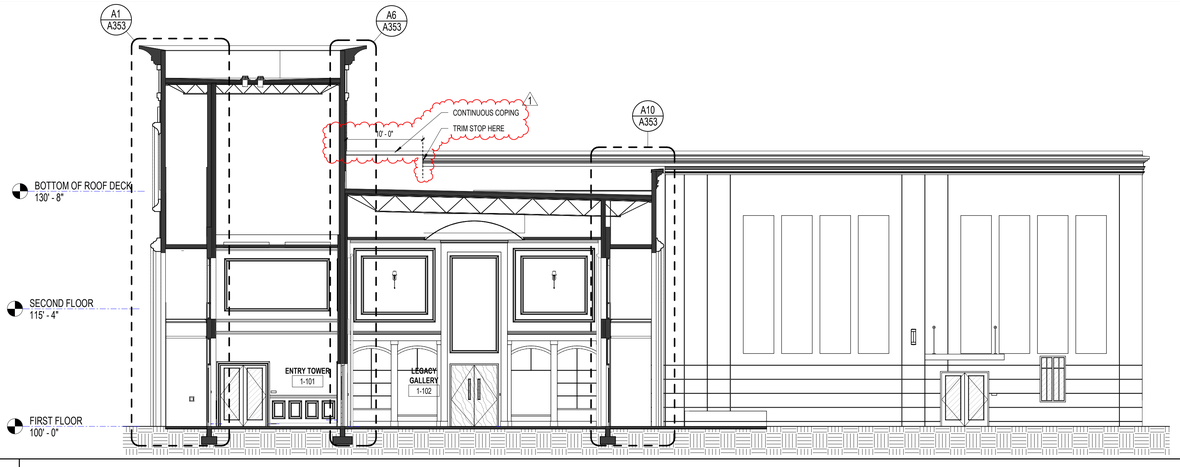

A1 BUILDING SECTION_NS 04

1/8" = 1'-0"

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A302
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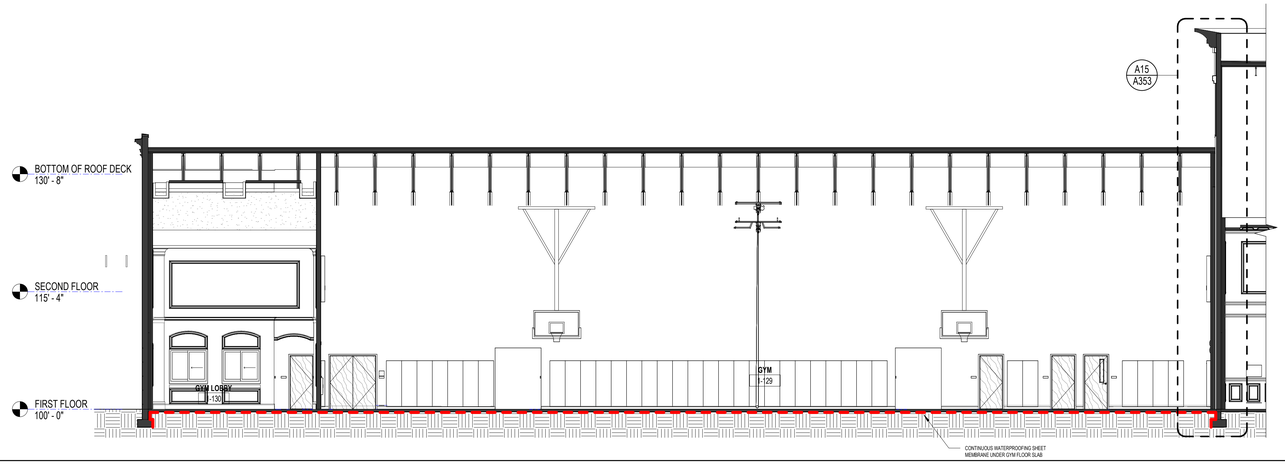

L1 BUILDING SECTION_EW 03

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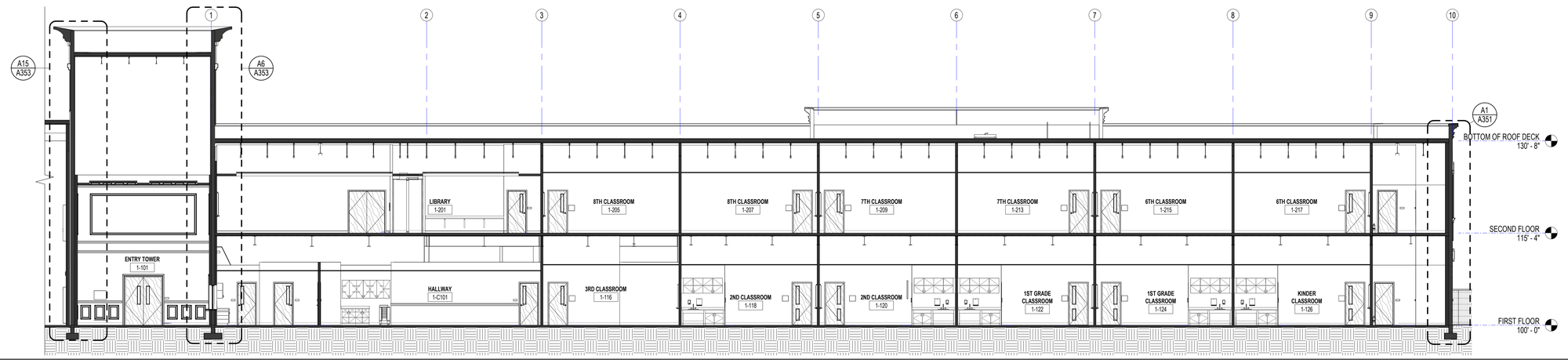

F1 BUILDING SECTION_EW 02

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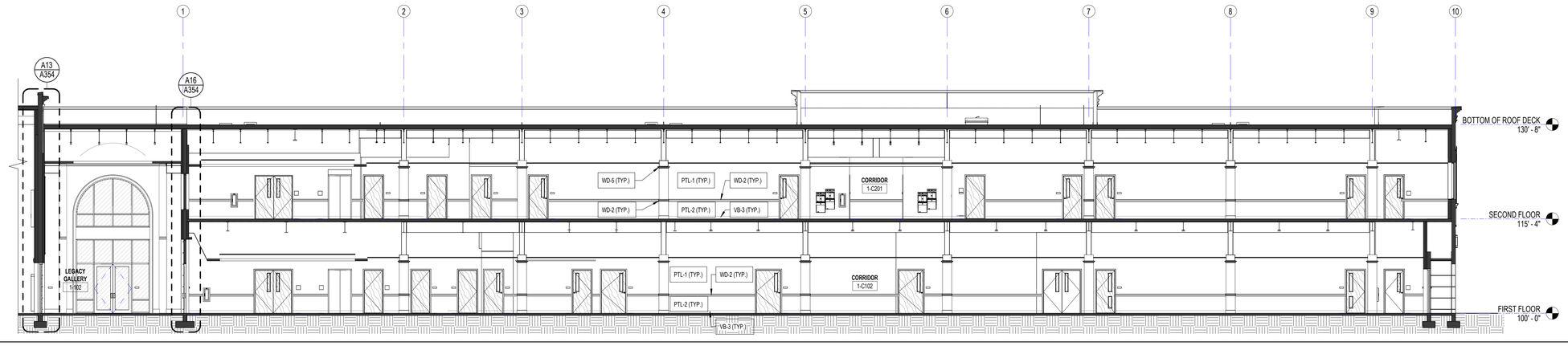

A1 BUILDING SECTION_EW 01

1/8" = 1'-0"

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VERO CLASSICAL SCHOOL

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51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

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BUILDING SECTIONS

A303
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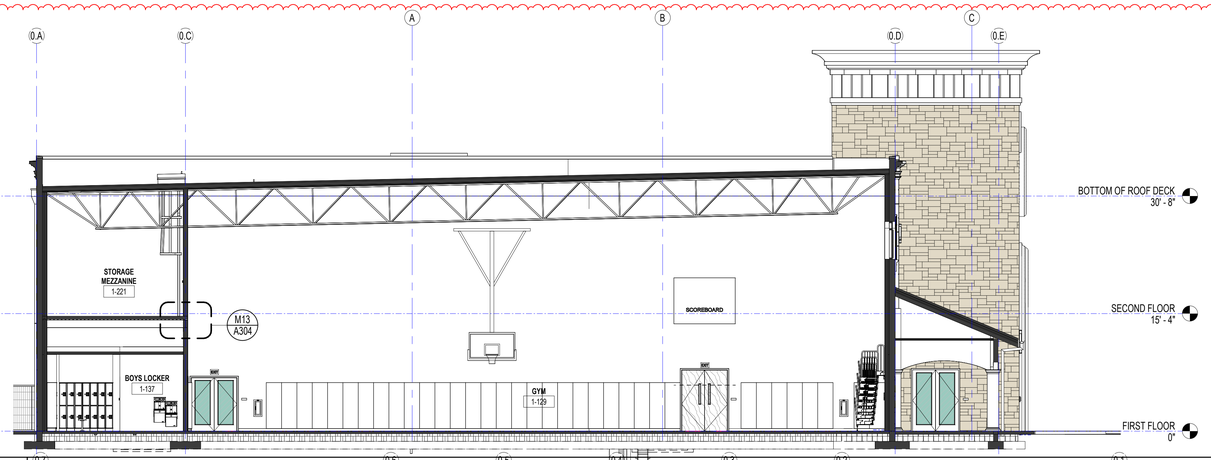
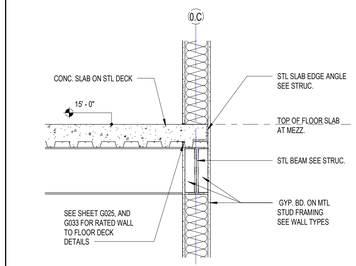


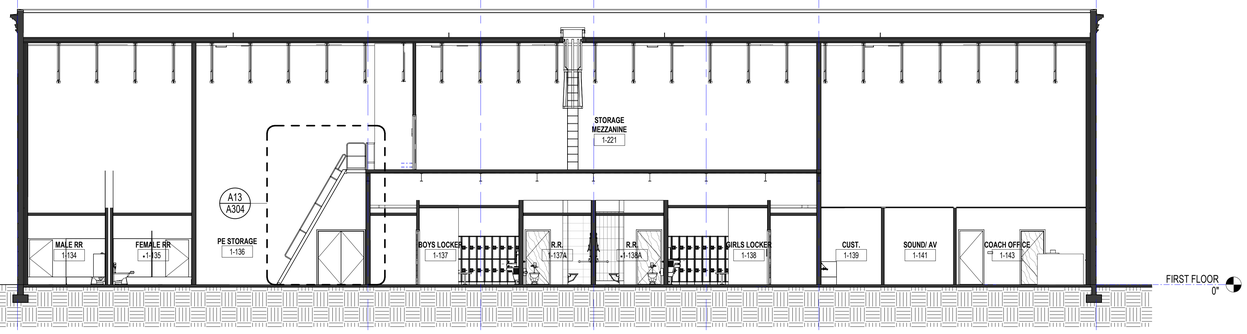
M1 BUILDING SECTION

1/8" = 1'-0"



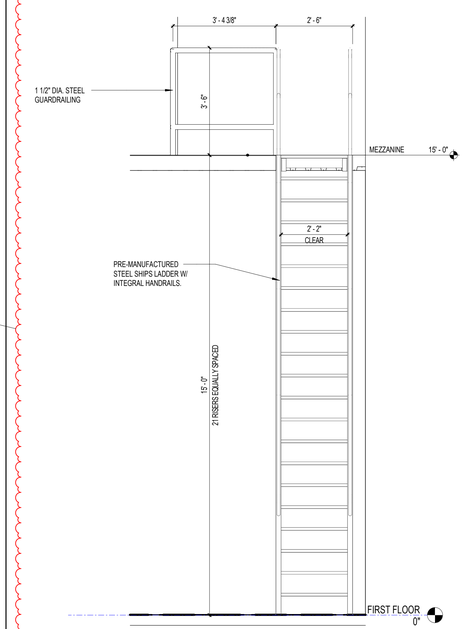
M13 WALL AND FLOOR SECTION DETAIL

3/4" = 1'-0"



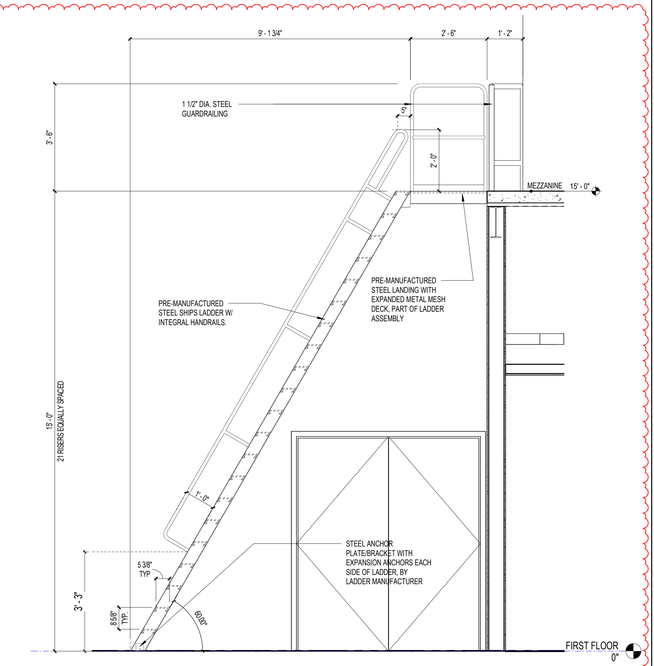
H1 BUILDING SECTION_EW 04

1/8" = 1'-0"



A9 SHIP LADDER ELEVATION

1/2" = 1'-0"



A13 SHIP LADDER DETAIL

1/2" = 1'-0"

VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL SCHOOL WEST - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
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A304
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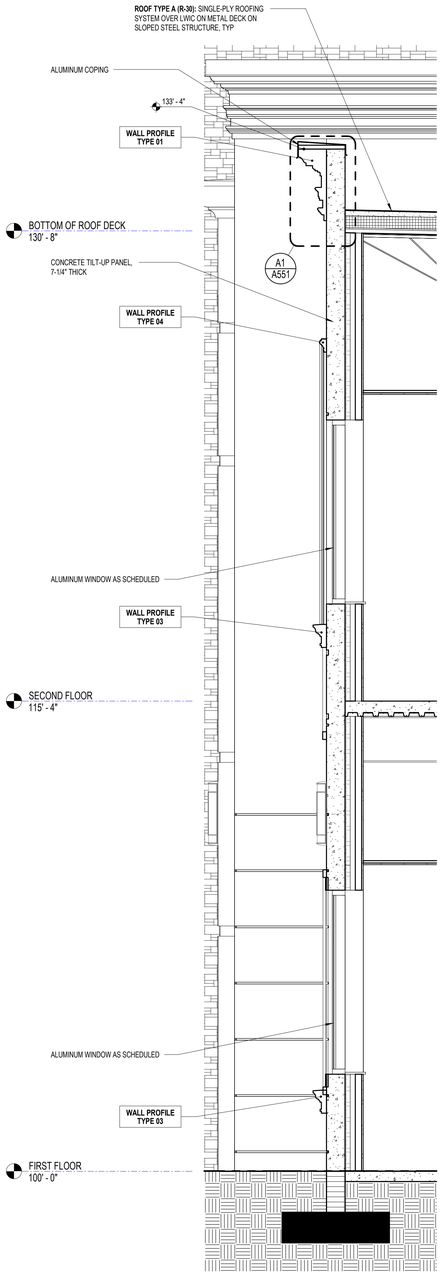
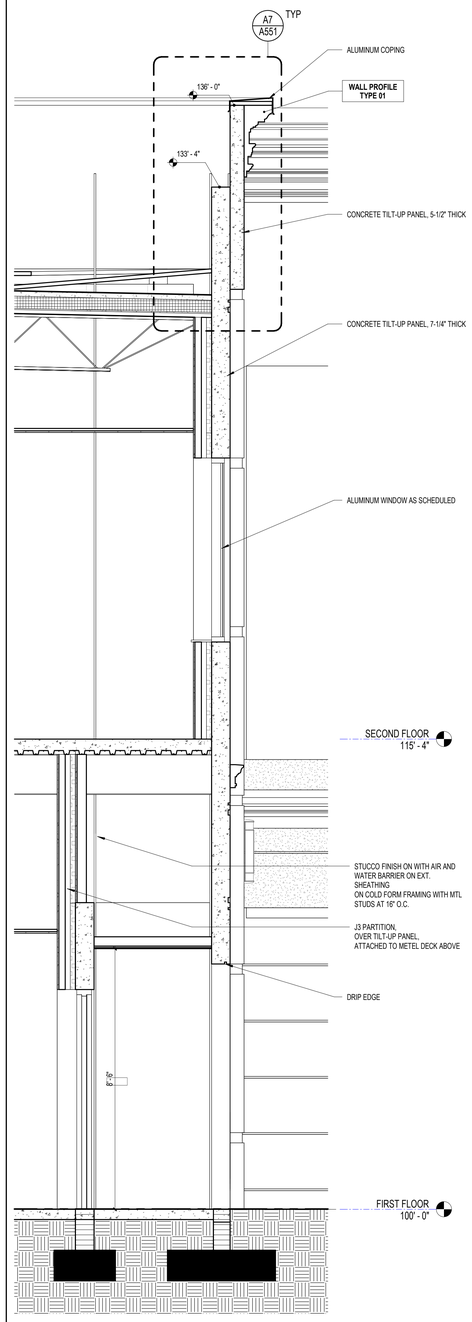


A1 WALL SECTION

1/2" = 1'-0"



A5 WALL SECTION

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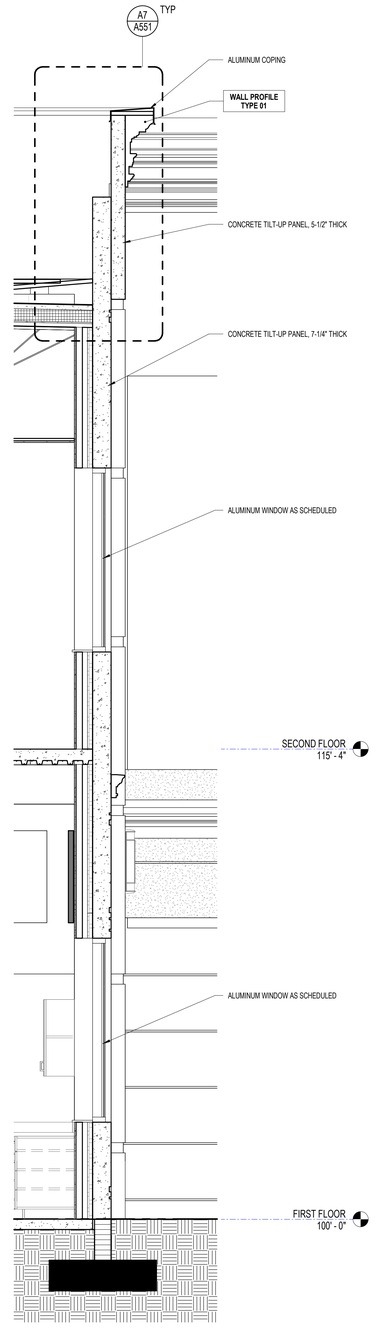

A9 WALL SECTION

1/2" = 1'-0"

VERO CLASSICAL SCHOOL

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51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

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WALL SECTIONS

A351

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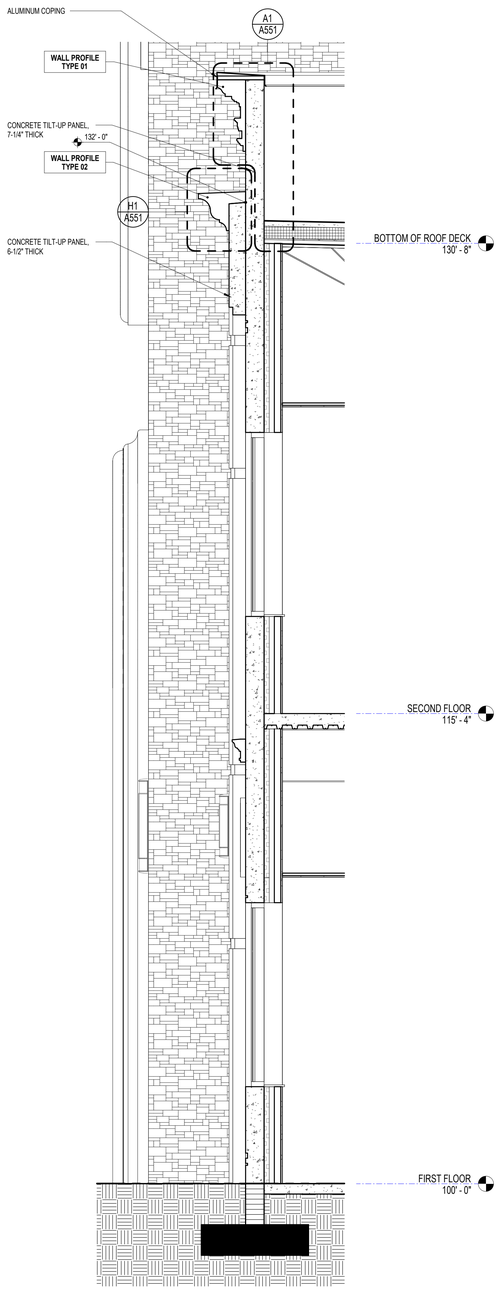
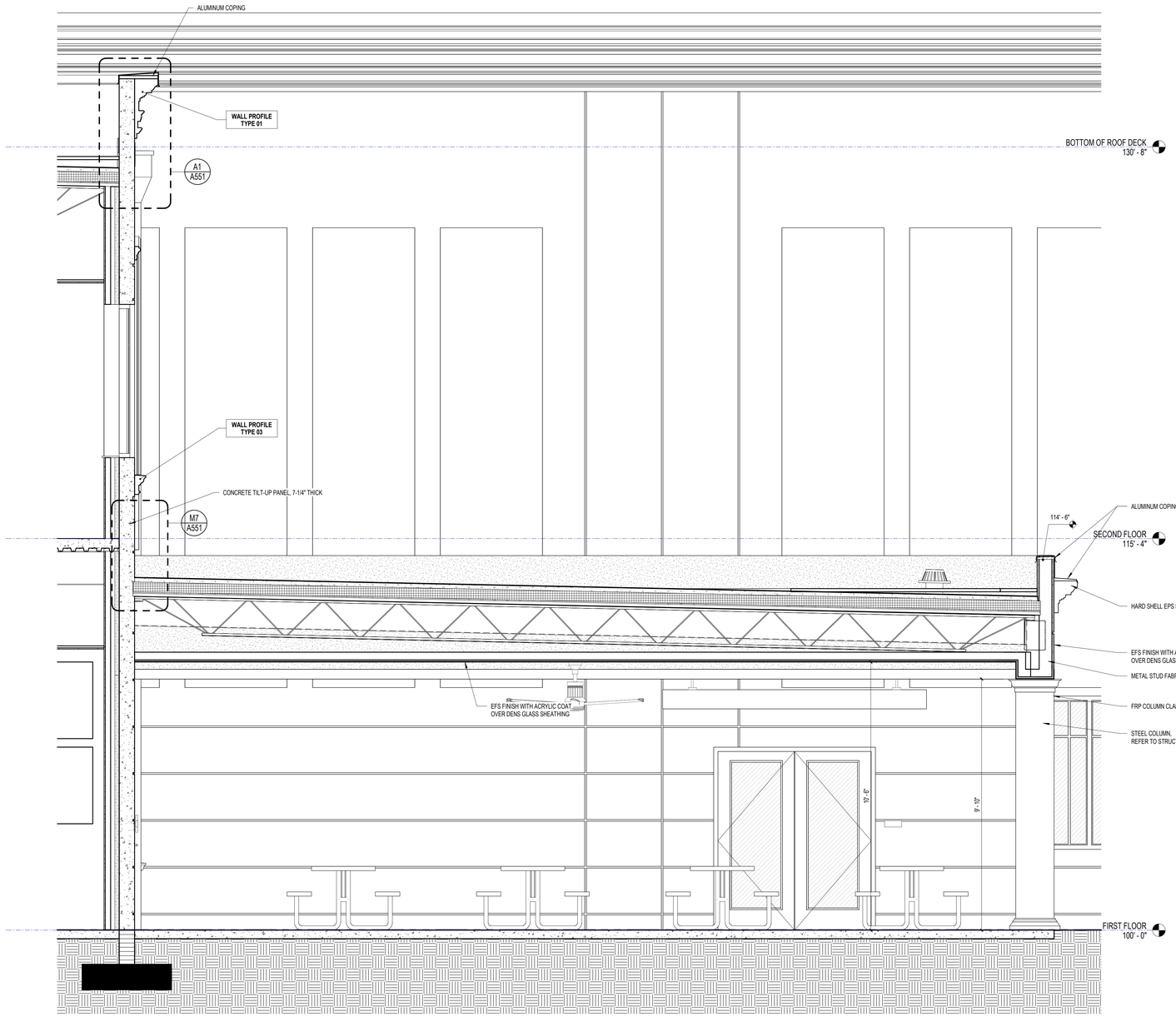


A1 WALL SECTION

1/2" = 1'-0"



A6 WALL SECTION

1/2" = 1'-0"

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VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
VERO BEACH, FLORIDA 32963

SCHENKEL SHULTZ

834 N. Orange Avenue
Winter Park, FL 32789
voice 407-872-3322

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WALL SECTIONS

A352
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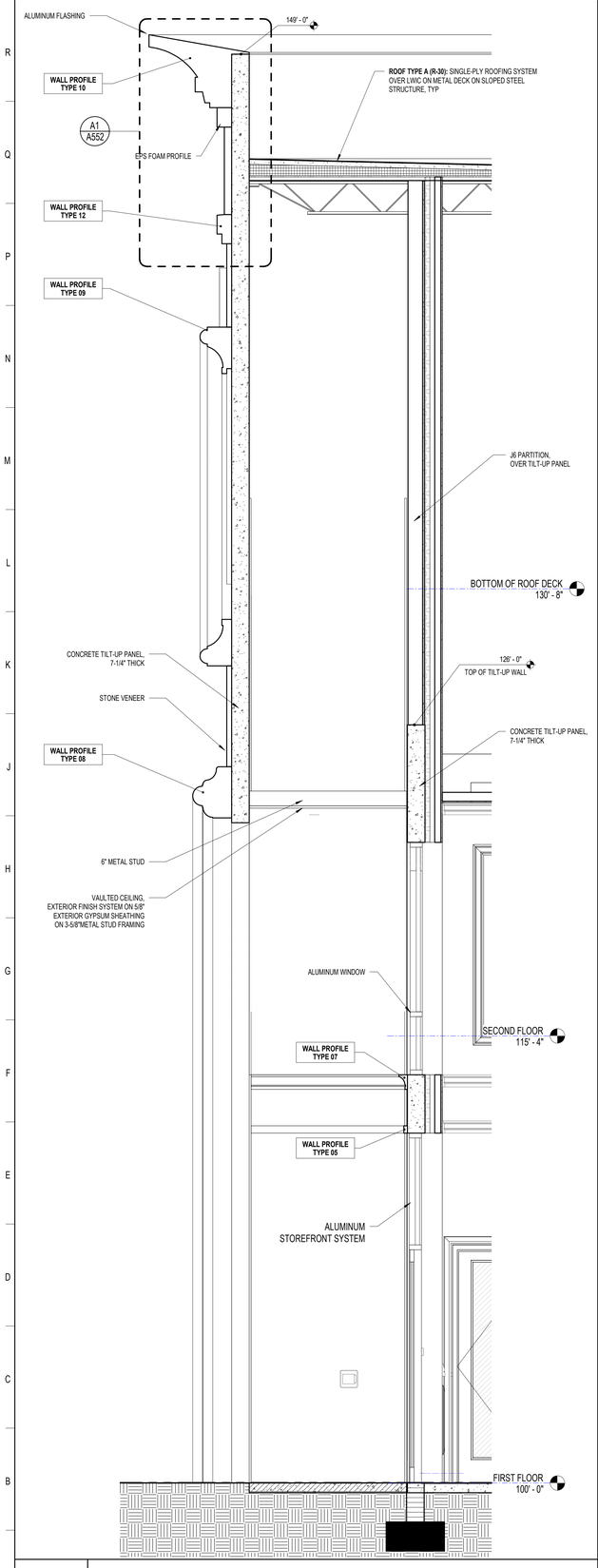
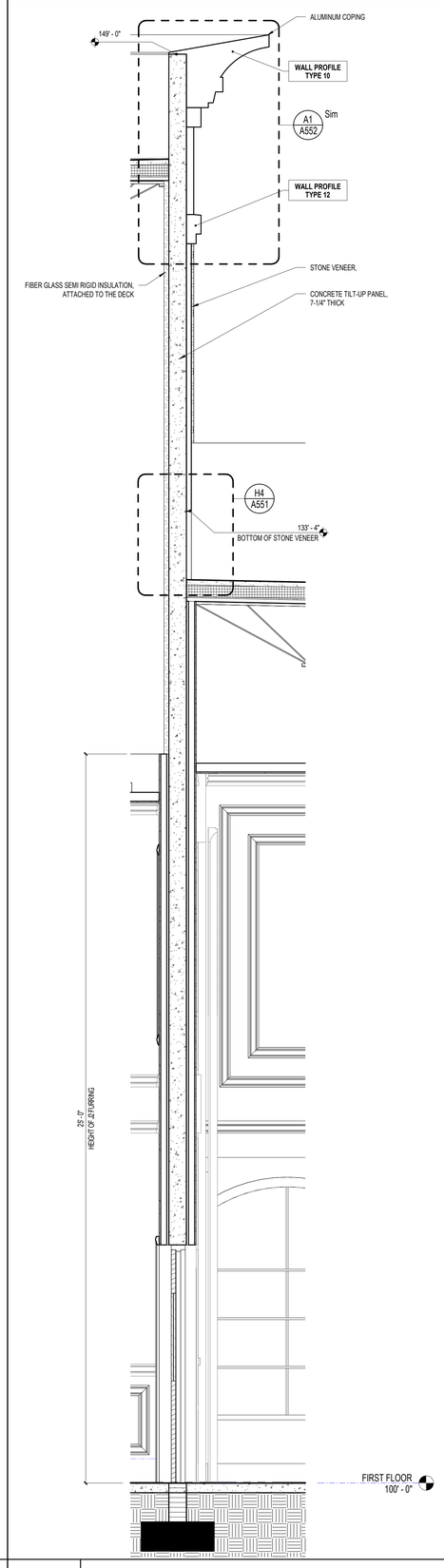


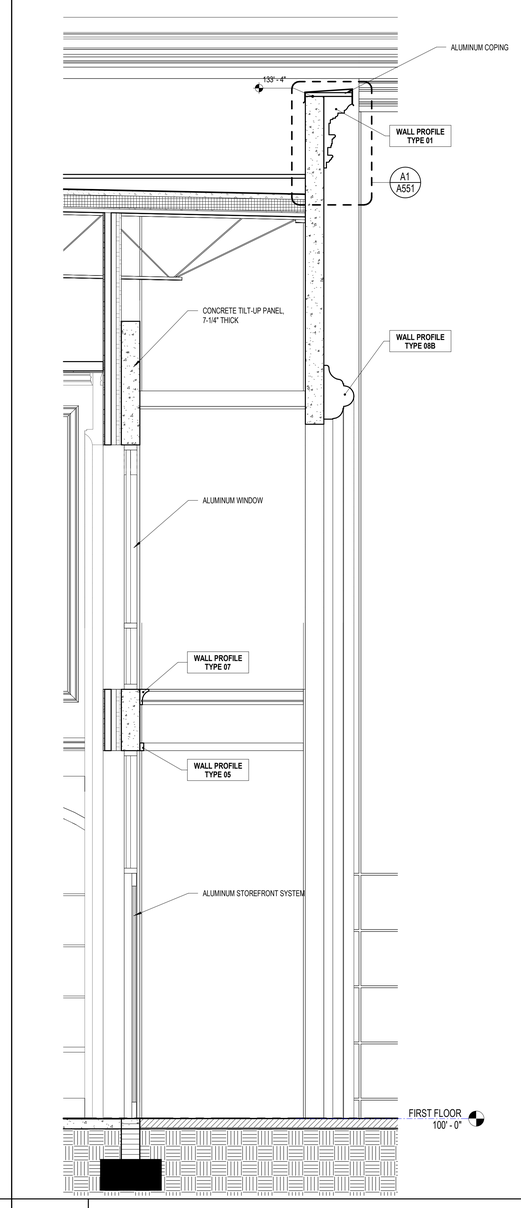
A1 WALL SECTION

1/2" = 1'-0"



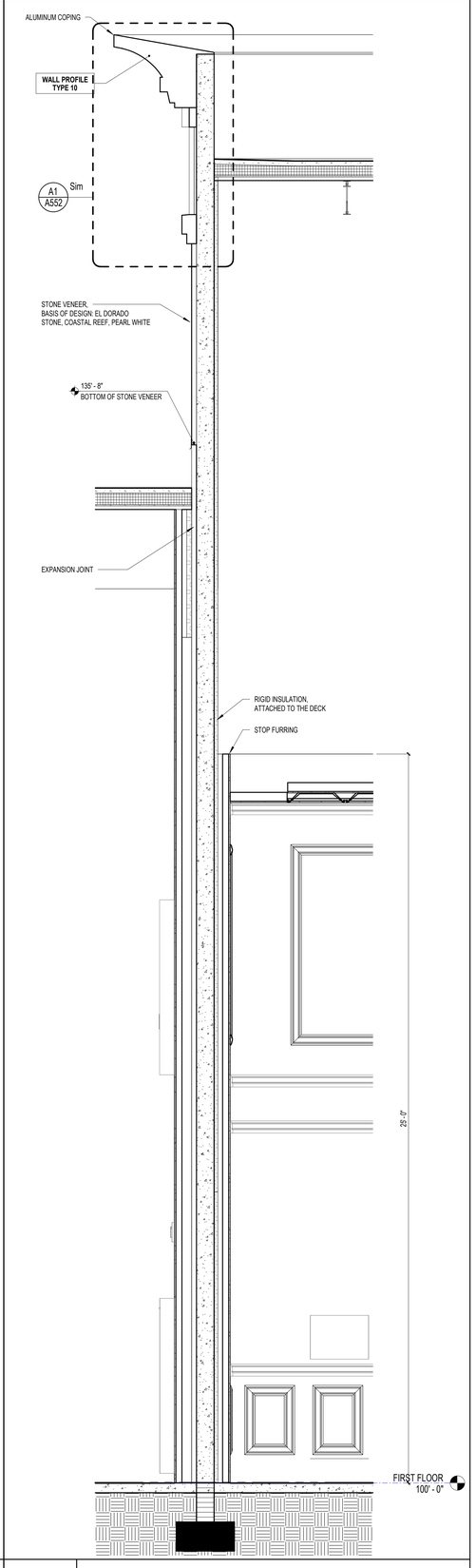
A6 WALL SECTION

1/2" = 1'-0"



A10 WALL SECTION

1/2" = 1'-0"



A15 WALL SECTION

NOT TO SCALE

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51 Old Dixie Hwy, Vero Beach, FL 32962

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WALL SECTIONS

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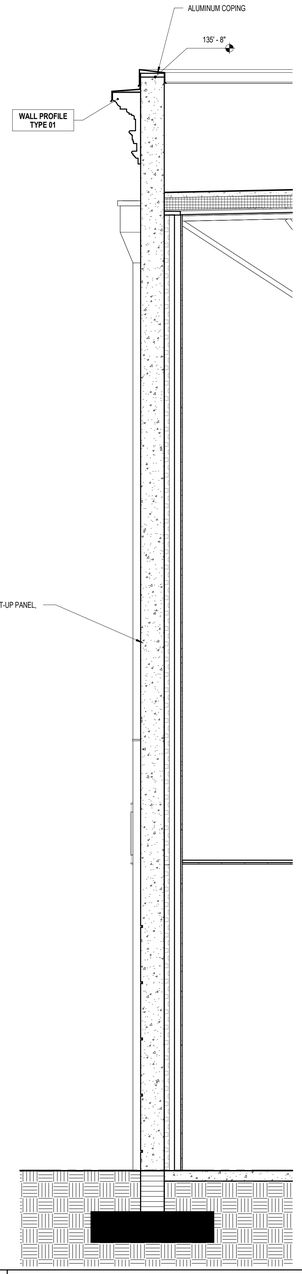
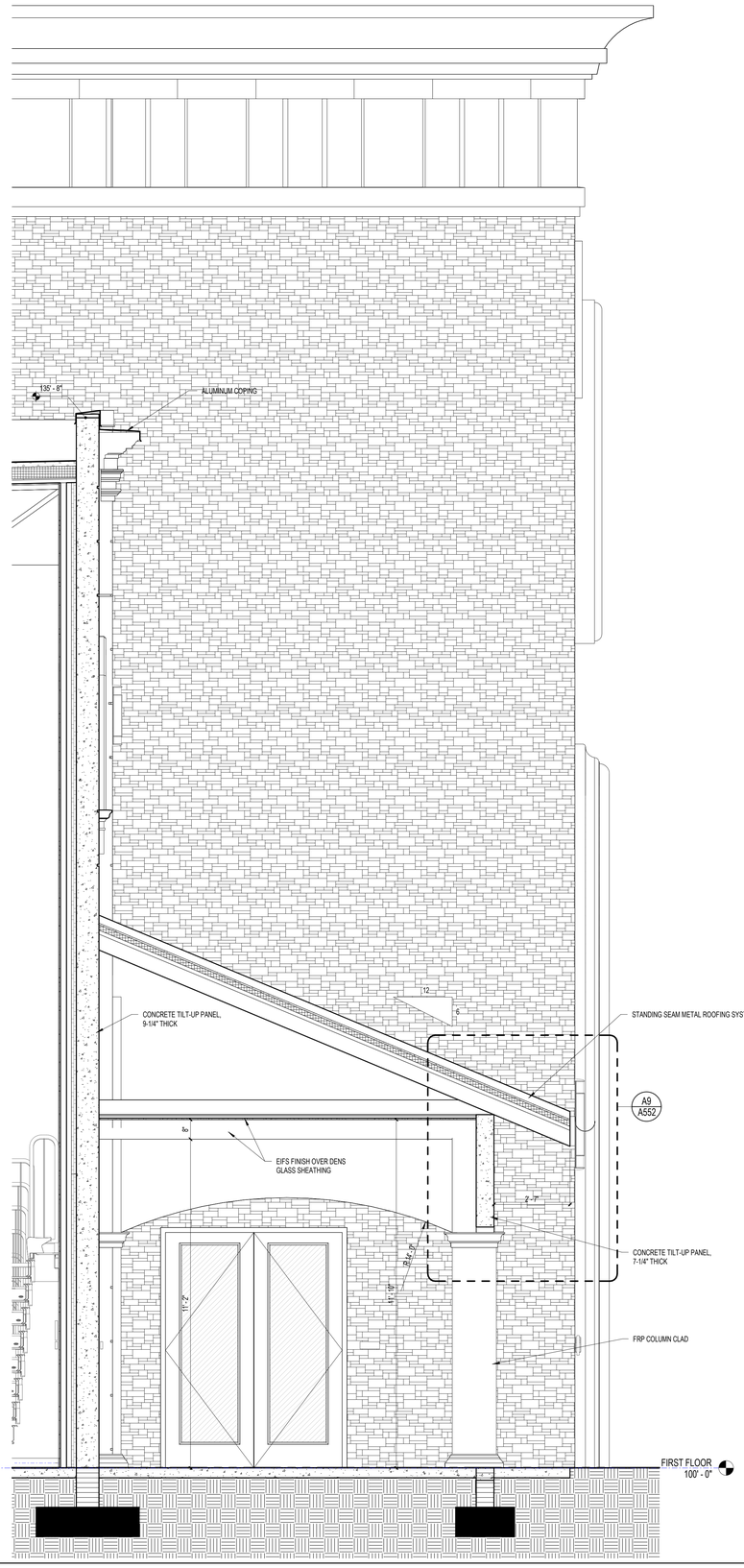


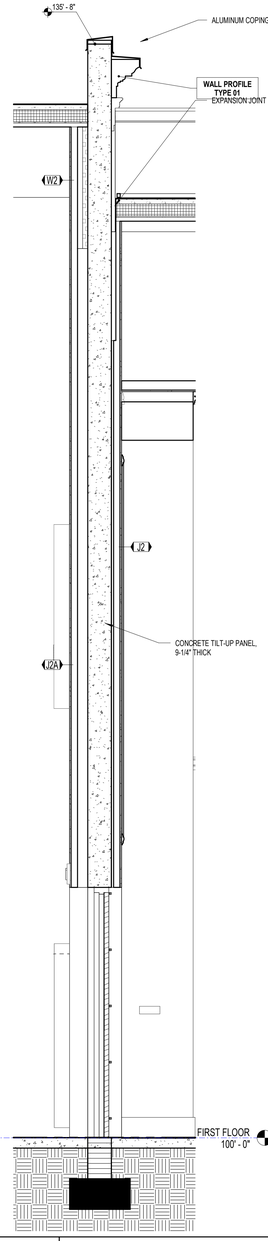
A1 WALL SECTION

1/2" = 1'-0"



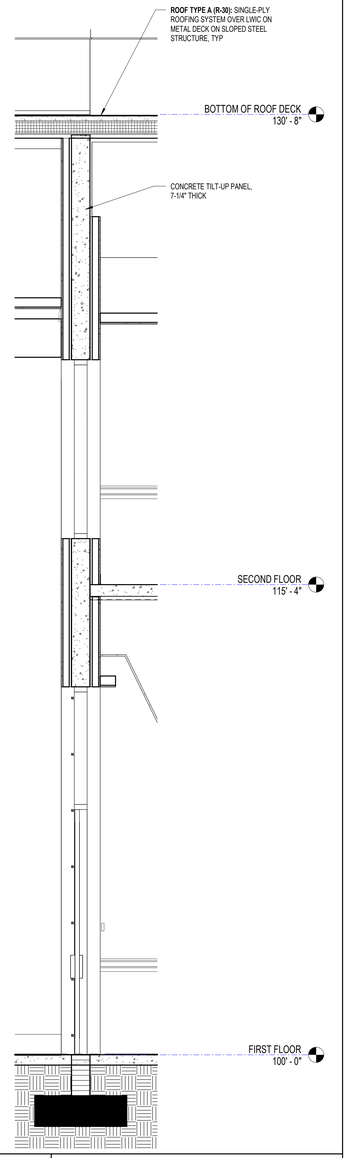
A5 WALL SECTION

1/2" = 1'-0"



A13 WALL SECTION

1/2" = 1'-0"



A16 WALL SECTION

1/2" = 1'-0"

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WALL SECTIONS

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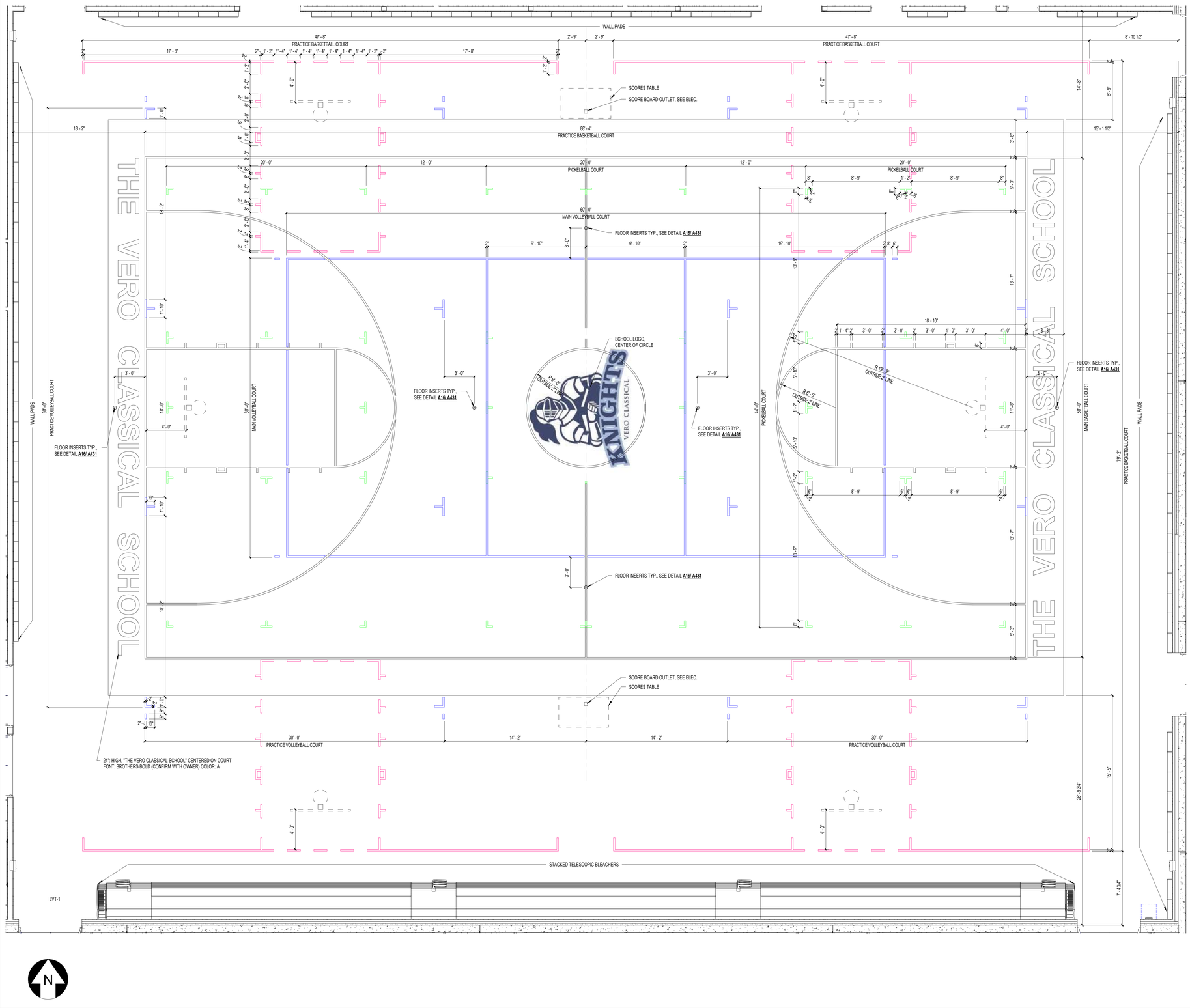


A1 ENLARGED PLAN - 1ST FLOOR_AREA B- COURT STRIPING

1/4" = 1'-0"

GYMNASIUM COURT GENERAL NOTES

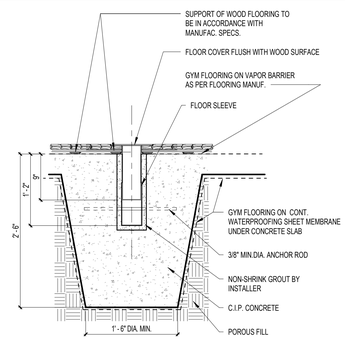
1. ALL COURT STRIPING SHALL BE 2 INCHES WIDE U.N.O.
2. ALL STRIPING DIMENSIONS SHALL MEET THE REQUIREMENTS OF THE NATIONAL FEDERATION OF HIGH SCHOOLS - COURT AND FIELD DIAGRAM GUIDE.
3. SCHOOL LOGO DESIGN (GRAHICS AND COLORS) TO BE ISSUED UNDER SEPERATE COVER DURING THE SHOP DRAWING PHASE.
4. HATCHING DESIGNATES COLOR OF COURT BORDER AND BASKETBALL COURT KEY.
5. BASKETBALL COURT DIMENSIONS SHALL BE TO THE INSIDE OF THE STRIPE.
6. VOLLEYBALL DIMENSIONS SHALL BE TO THE OUTSIDE OF THE STRIPE.
7. COURT DIMENSIONS ARE SYMETRICAL. FOR DIMENSIONS THAT ARE NOT INDICATED, LOOK FOR THE SIMILAR DIMENSION ON THE OPPOSITE SIDE OF THE COURT.
8. REFER TO EQUIPMENT PLANS FOR EQUIPMENT TAG LEGEND.
9. REFER TO MEP DRAWING FOR FUTURE BLEACHER POWER CONNECTION.
10. REFER TO SHEET A431 FOR COURT STRIPING DIMENSIONS.

COURT STRIPING LEGEND

COLOR KEY	COLOR	LOCATION
COLOR A	TBD	MAIN BASKETBALL COURT BOARDER STRIPING / SCHOOL NAME / DEDICATION NAME TEXT
COLOR B	TBD	SIDE BASKETBALL COURT STRIPING
COLOR C	TBD	BASKETBALL KEYS AND DEDICATION NAME TEXT
COLOR D	TBD	MAIN VOLLEYBALL COURT STRIPING
COLOR E	TBD	SIDE VOLLEYBALL COURT STRIPING
COLOR F	TBD	PICKLEBALL COURT STRIPING
COLOR G	TBD	MAIN COURT BOARDER AND BASKETBALL STRIPPING

A16 FLOOR INSERT SLEEVE DETAIL

1" = 1'-0"



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ENLARGED PLAN - GYM FLOOR STRIPING

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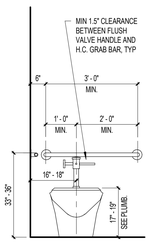
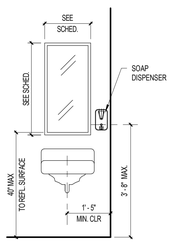
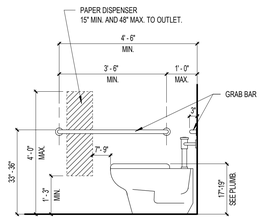
ACCESSORY MOUNTING HEIGHTS

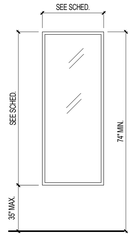


TYPICAL RESTROOM ELEVATION

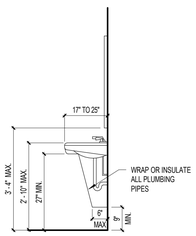




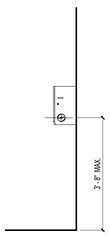
SIDE VIEW - TOILET



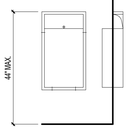
MIRROR



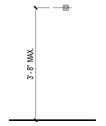
WALL HUNG SINKS / MIRROR



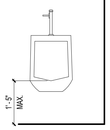
HAND TOWEL DISPENSER



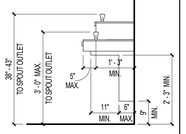
WASTE RECEPTACLE



TOWEL / ROBE / COAT HOOK

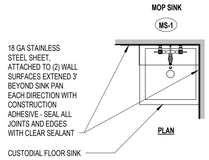


URINAL - HC

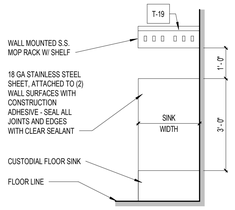


ELECTRIC WATER COOLER

MOP SINK — MS-1

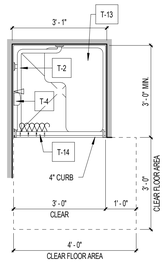


PLAN

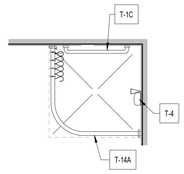


ELEVATION

TRANSFER TYPE ACCESSIBLE SHOWER — SH-1



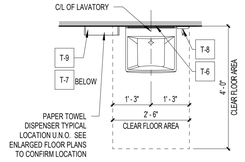
CLININC SHOWER — SH-2



ACCESSIBLE LAVATORY

LAV-1A - 30" A.F.F. TO RIM

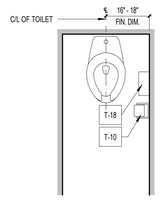
LAV-1B - 33" A.F.F. TO RIM



WATER CLOSET

WC-1A - 15" A.F.F. TO SEAT

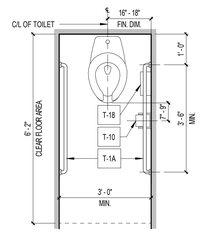
WC-1B - 17" A.F.F. TO SEAT



AMBULATORY WATER CLOSET

WC-2A - 15" A.F.F. TO SEAT, 25" A.F.F. TO TOP OF GRAB BAR

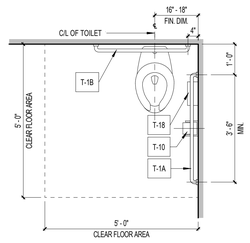
WC-2B - 17" A.F.F. TO SEAT, 33" A.F.F. TO TOP OF GRAB BAR



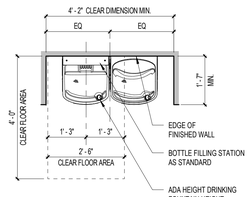
ACCESSIBLE WATER CLOSET

WC-3A - 15" A.F.F. TO SEAT, 25" A.F.F. TO TOP OF GRAB BAR

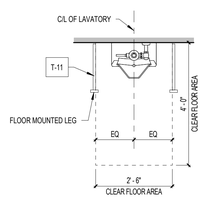
WC-3B - 17" A.F.F. TO SEAT, 33" A.F.F. TO TOP OF GRAB BAR



BI-LEVEL DRINKING FOUNTAIN — DF-1



URINAL — UR-1

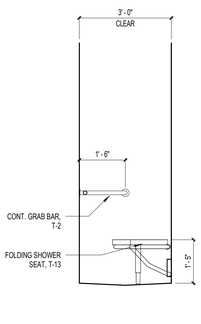


NOTE: PROVIDE T-11 URINAL SCREEN WHERE EXPOSED TO VIEW , SEE PLANS.

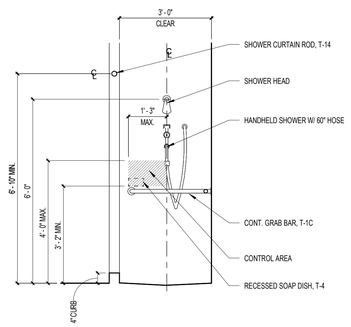
NOTES:

1. ALL TOILET ACCESSORIES SHOWN ARE DIAGRAMMATIC IN NATURE AND NOT INTENDED TO ACCURATELY REFLECT THE SPECIFIED PRODUCT. REFER TO TOILET ACCESSORY SCHEDULE AND SPECIFICATIONS.
2. PLUMBING FIXTURES SHOWN ARE DIAGRAMMATIC IN NATURE AND NOT INTENDED TO ACCURATELY REFLECT THE SPECIFIED PRODUCT. REFER TO PLUMBING FIXTURE SCHEDULE.
3. ALL DIMENSIONS ARE TO FINISH.
4. CONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE REQUIRED INSTALLATION MOUNTING HEIGHTS AND CLEARANCES PRIOR TO INSTALLATION OF FIXTURES AND/OR ACCESSORIES.
5. ITEM T-18 SANITARY NAPKIN RECEPTACLE. SHALL BE INSTALLED IN FEMALE TOILET ROOMS / STALLS ONLY.
6. PROVIDE ITEM T-3 ROBE HOOK. SHALL BE INSTALLED ON THE BACK OF ALL TOILET ROOM / TOILET STALL DOORS, AND AT EACH SHOWER LOCATION, U.N.O.
7. PROVIDE ITEM T-3A HEAVY DUTY HOOK. SHALL BE INSTALLED AT ALL TOILET ROOMS / STALLS. SEE ADITTIONAL LOCATION IN ELARGED FLOOR PLANS
8. ITEM T-9 PAPER TOWEL DISPENSER, TO BE LOCATED AS INDICATED ON FLOOR PLANS.
9. ITEMS LAV-3 & LAV-4 ARE SPECIALTY LAVATORIES, SEE SPECIFICATIONS AND FINISH SCHEDULE FOR MORE INFORMATION.
10. PROVIDE ITEM T-6 AT ALL LAVATORIES U.N.O.
11. PROVIDE T-6B FOR ALL ITEM DESIGNATED AS LAV-4.
12. PROVIDE T-16 AT ALL MAIN RESTROOMS. SEE LOCATION IN PLANS.

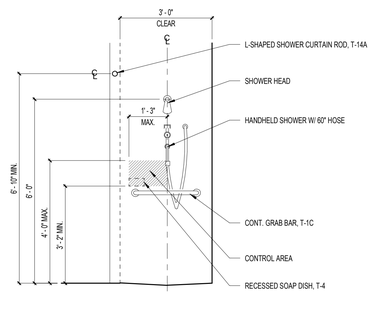
TYPICAL PLUMBING FIXTURE CONFIGURATION LEGEND



BACK WALL ON TRANSFER SHOWER SH-1



CONTROL WALL ON TRANSER SHOWER SH-1



CONTROL WALL ON ROLL-IN SHOWER SH-2
(SHOWER AND CONTROL LOCATION AT SHOWERS WITHOUT SEAT)

NOTES:

1. ALL HEIGHTS TO MEET FLOORDIA ACCESSIBILITY STANDARD
2. COORDINATE MOUNTING HEIGHTS W/ MEP DRAWINGS

PLUMBING ACCESSORY MOUNTING HEIGHTS

TOILET ACCESSORY SCHEDULE

TAG #	FIXTURE OR ACCESSORY	MANUFACTUR...	MODEL #	REMARKS	OFOI	OFCI	CFCI
T-1	GRAB BAR - 48 INCH	BOBRICK	B-5806				X
T-1A	GRAB BAR - 42 INCH	BOBRICK	B-5806				X
T-1B	GRAB BAR - 36 INCH	BOBRICK	B-5806				X
T-1C	GRAB BAR - 24 INCH	BOBRICK	B-5806				X
T-1D	GRAB BAR - 18 INCH	BOBRICK	B-5806				X
T-2	GRAB BAR - HORIZONTAL COMPARTMENT BAR 24X36 INCH	BOBRICK	B-58616				X
T-3	ROBE/COAT HOOK	BOBRICK	B-76717	60" H. TYPICAL. 44" H. MAX AT HANDYCAP LOCATIONS.			X
T-3A	HEAVY DUTY HOOK	BOBRICK	B-2116	60" H. TYPICAL. 44" H. MAX AT HANDYCAP LOCATIONS.			X
T-4	SOAP DISH	BOBRICK	B-6807				X
T-5	FOLDING SHOWER SEAT - BARIATRIC	BOBRICK	B-918116				X
T-6	MIRROR - GLASS WITH S.S. FRAME	BOBRICK	B-293 1830	18" X 30" HT.			X
T-6A	MIRROR - GLASS FULL WIDTH FRAMELESS			FULL LENGH BY 30" HT			X
T-6B	MIRROR - GLASS WITH S.S.FRAME	BOBRICK	B-293 2436	24" X 36" HT.			X
T6-C	MIRROR - GLASS FULL WIDTH WITH S.S. FRAME AT VERTICAL EDGE			6'-0" HT. BOTTOM @ 8" A.F.F. FOR WIDTH SEE EQUIPMENT PLANS			X
T-6D	MIRROR - SS. REFLECTION SURFACE SS. FRAME			18" X 30" HT.			X
T-7	WASTE RECEPTACLE - SURFACED MOUNTED	BOBRICK	B-277	NOT USED			
T-7A	WASTE RECEPTACLE - SEMI RECESSED			NOT USED			
T-7B	WASTE RECEPTACLE - RECESSED	BOBRICK	B-3664				X
T-8	SOAP DISPENSER	BY OWNER	818615		X		
T-9	PAPER TOWEL DISPENSER. DOUBLE ROLL - SURFACE MOUNTED	BY OWNER	B-2974		X		
T-10	TOILET PAPER - SINGLE ROLL	BY OWNER	B-4288		X		
T-10A	TOILET PAPER - JUMBO ROLL			NOT USED			
T-10B	TOILET PAPER - TWIN JUMBO ROLL			NOT USED			
T-11	URINAL SCREEN						X
T-12	RESTROOM PARTITION - FLOOR TO CEILING						X
T-13	FOLDING SHOWER SEAT	BOBRICK	B-518				X
T-14	SHOWER ROD / SHOWER CURTAIN HOOK / SHOWER CURTAIN	BOBRICK	B-4207 / 204-1 / 204-2				X
T-14A	CORNER SHOWER ROD / SHOWER CURTAIN HOOK / SHOWER CURTAIN						X
T-15	ELECTRIC HAND DRYER			NOT USED			
T-16	WALL-MOUNTED BABY CHANGING STATION			INSTALL ON ALL MAIN RESTROOMS. HANDLE AT 48" A.F.F. MAX. INSTALL PER MANUFACTURER SPECS.			X
T-17	TOILET SEAT COVER DISPENSER	BY OWNER			X		
T-18	SANITARY NAPKIN RECEPTACLE	BY OWNER			X		
T-19	SHELF, RAG, & HOOK BROOM HOLDER	BOBRICK	B-239 X 34		X		

VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
VERO BEACH, FLORIDA 32963

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Winter Park, FL 32789
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TOILET ACCESSORY SCHEDULE, & LEGEND

A460
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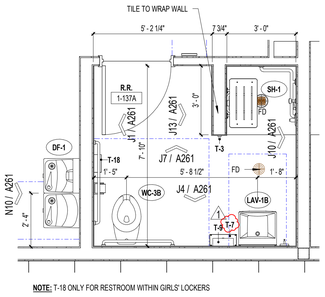
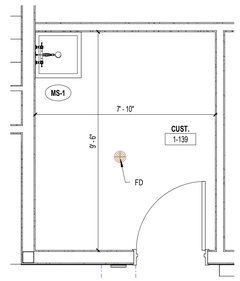


NOTE: T-18 ONLY FOR RESTROOM WITHIN GIRLS' LOCKERS

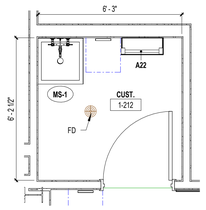
N1 TYPICAL GYM RESTROOM

3/8" = 1'-0"



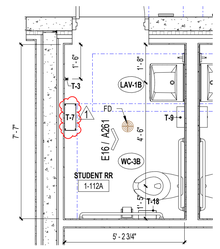
N4 CUSTODIAL_# 1-139

3/8" = 1'-0"



N7 CUSTODIAL_# 1-212

3/8" = 1'-0"

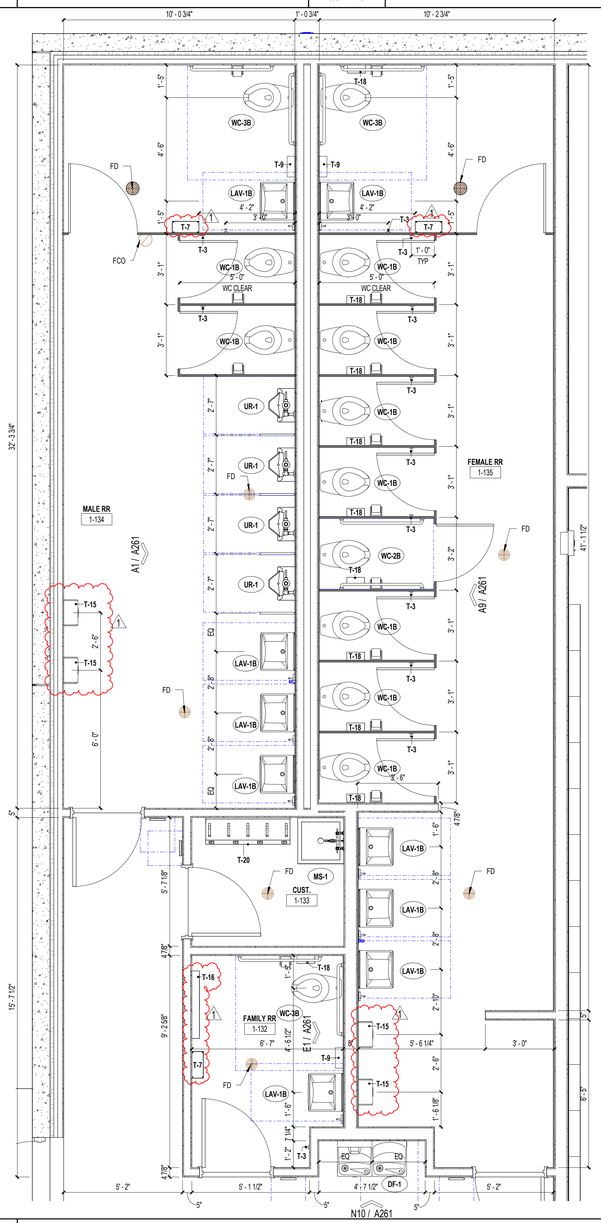


N10 OUTDOOR DINING RESTROOM

3/8" = 1'-0"

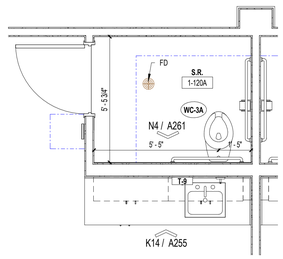
GENERAL NOTES:

1. FOR ADDITIONAL ACCESSORIES INFORMATION, SEE SHEET A460



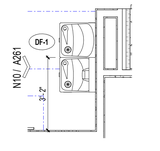
A1 GROUP RESTROOM @ GYM

3/8" = 1'-0"



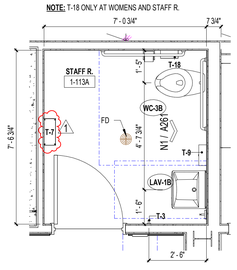
J7 TYPICAL KINDER/ PRIMARY RESTROOM

3/8" = 1'-0"



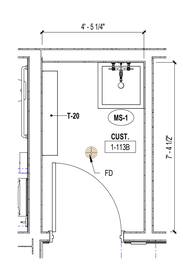
J10 DRINKING FOUNTAIN @ 2ND FLOOR

3/8" = 1'-0"



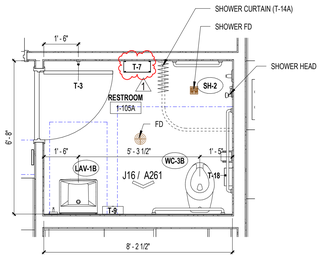
E7 TYPICAL STAFF RESTROOMS

3/8" = 1'-0"



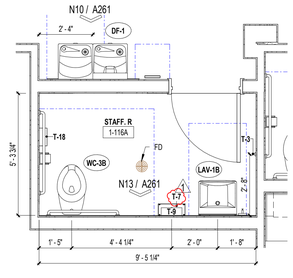
E10 CUSTODIAL_# 1-113B

3/8" = 1'-0"



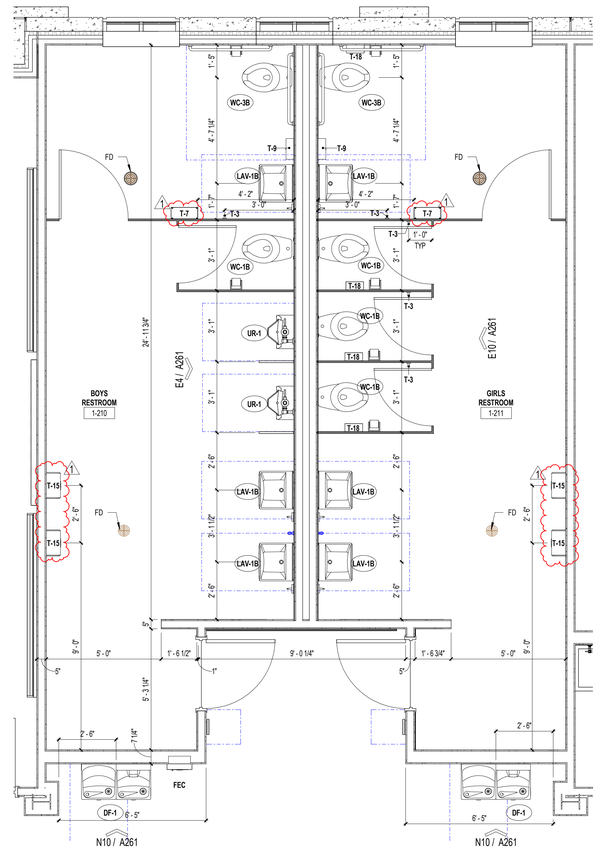
A7 CLINIC RESTROOM

3/8" = 1'-0"



A10 RESTROOM_#1-116A

3/8" = 1'-0"



A13 GROUP RESTROOM @ CLASSROOM BUILDING

3/8" = 1'-0"

VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

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ENLARGED FLOOR PLANS - RESTROOM

A461

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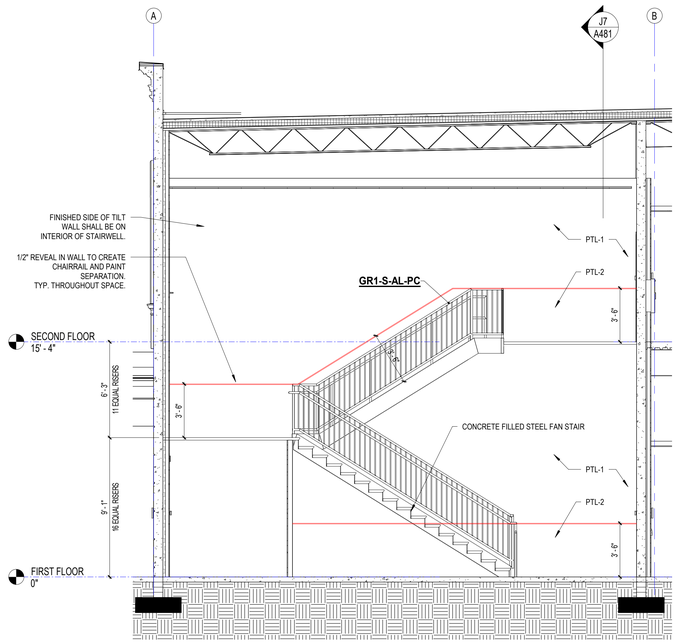
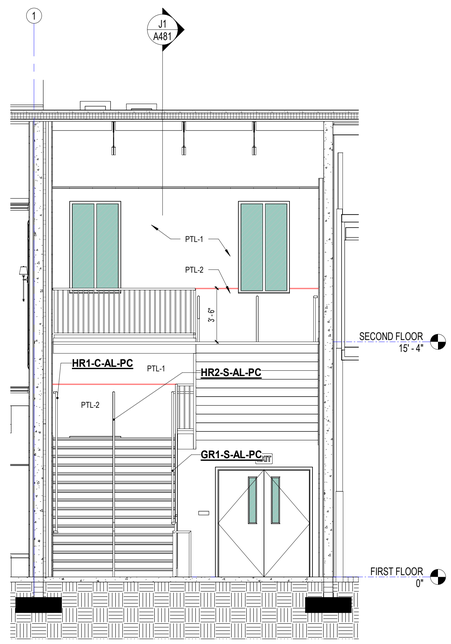
NOTES:

1. FOR GUARDRAIL AND HANDRAIL DETAILS, SEE TYPICAL STAIR HAND & GUARD RAILING DETAILS ON SHEET A491.
2. FOR GUARDRAIL AND HANDRAIL TYPES, SEE 'HANDRAIL & GUARDRAIL TYPES SCHEDULE' ON SHEET A491.



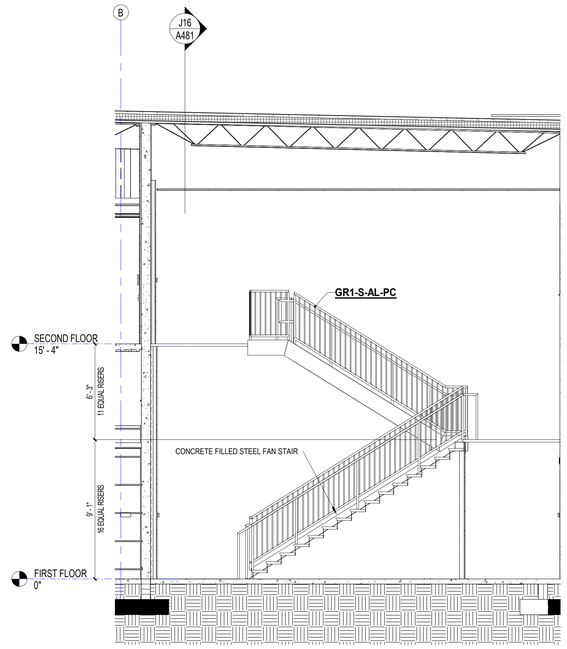
J1 — STAIR SECTION 1 - STAIR #1

1/4" = 1'-0"



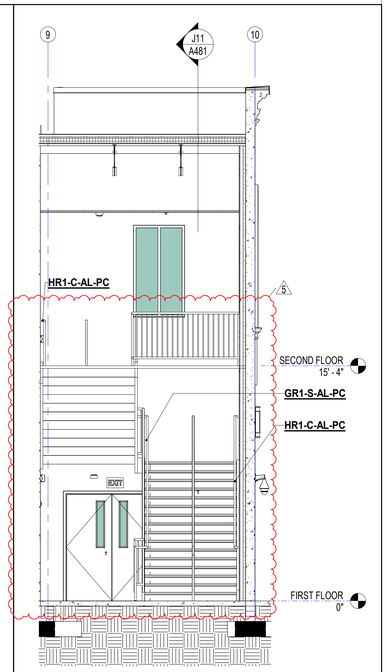
J7 — STAIR SECTION 2 - STAIR #1

1/4" = 1'-0"



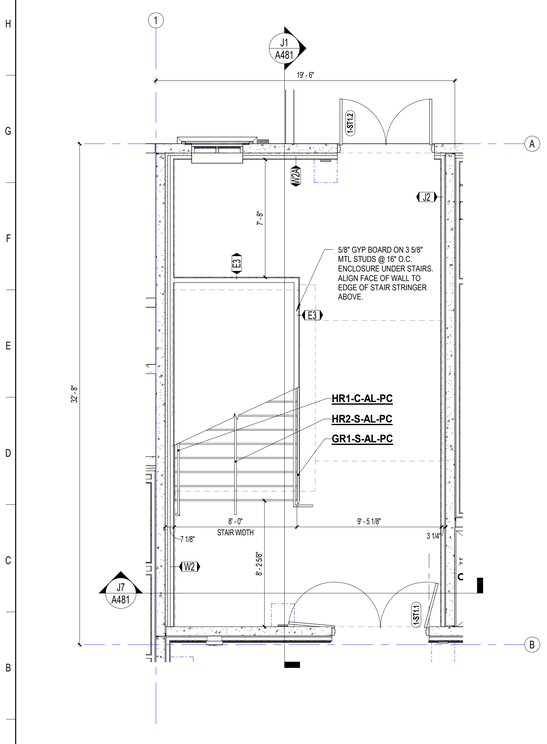
J11 — STAIR SECTION 1 - STAIR #2

1/4" = 1'-0"



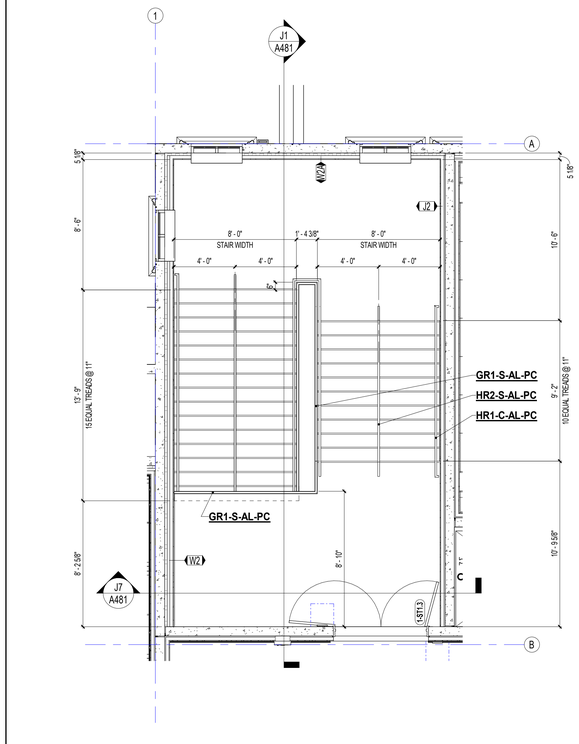
J16 — STAIR SECTION 2 - STAIR #2

1/4" = 1'-0"



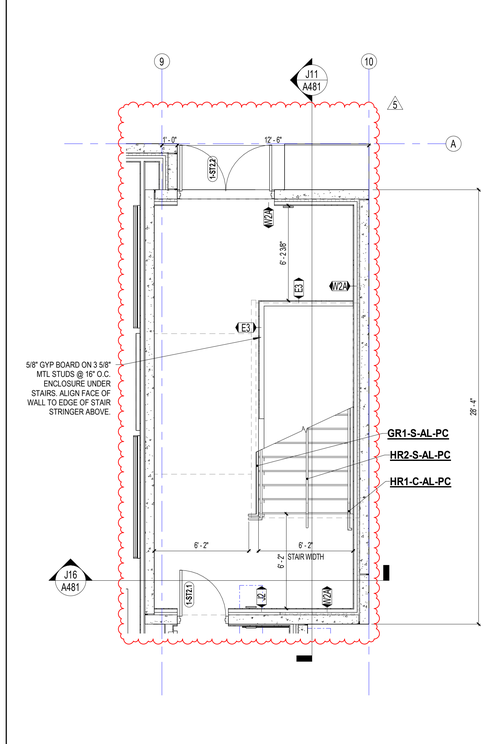
A1 — STAIR PLAN - STAIR #1 - 1ST FLOOR

1/4" = 1'-0"



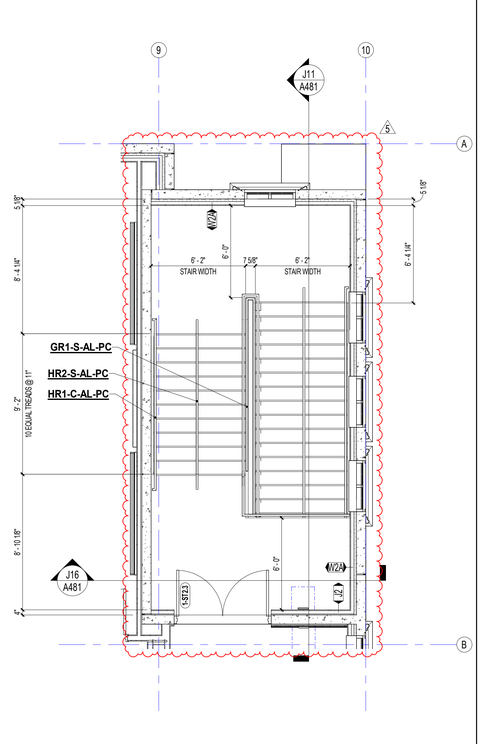
A6 — STAIR PLAN - STAIR #1 - 2ND FLOOR

1/4" = 1'-0"



A11 — STAIR PLAN - STAIR #2 - 1ST FLOOR

1/4" = 1'-0"



A15 — STAIR PLAN - STAIR #2 - 2ND FLOOR

1/4" = 1'-0"

VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL SCHOOL WEST - PHASE I

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STAIR PLANS & SECTIONS

A481

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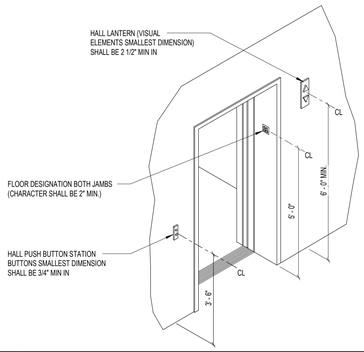
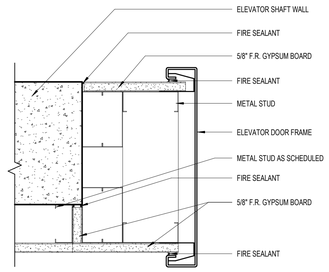


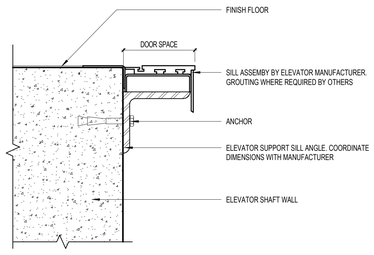
N1 ELEVATOR ENTRY AND MOUNTING HEIGHTS

NOT TO SCALE



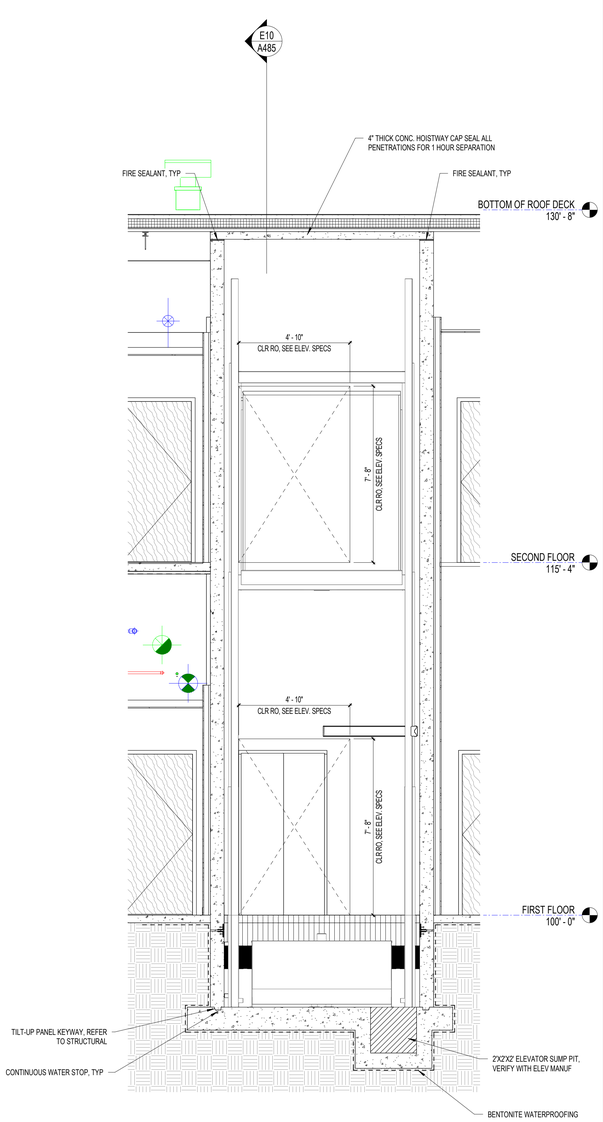
J1 ELEVATOR HEAD AND JAMB DETAIL

3" = 1'-0"



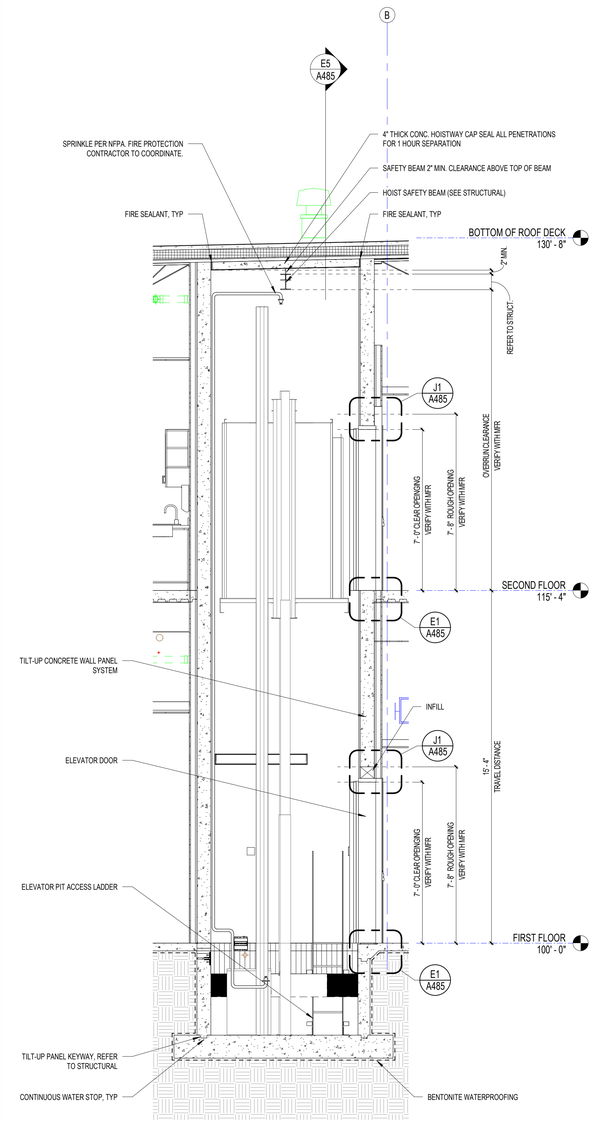
E1 ELEVATOR SILL DETAIL

3" = 1'-0"



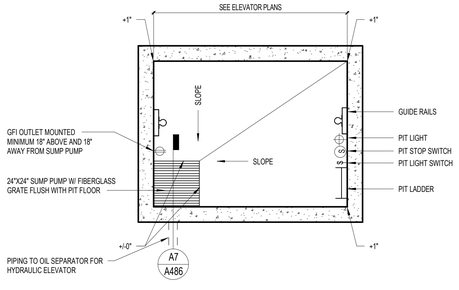
E5 ELEVATOR SECTION 1

3/8" = 1'-0"



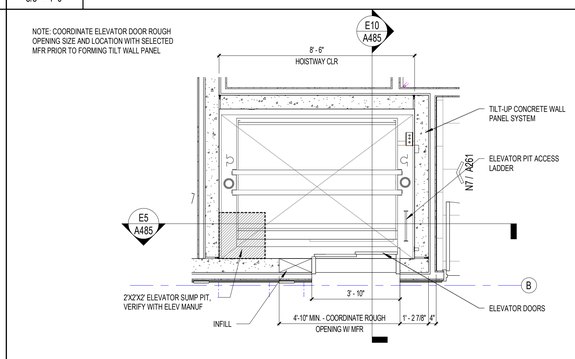
E10 ELEVATOR SECTION 2

3/8" = 1'-0"



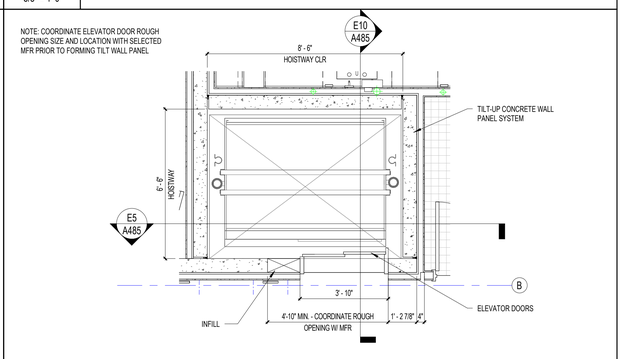
A1 ELEVATOR ENLARGED PIT PLAN

3/8" = 1'-0"



A5 ELEVATOR FLOOR PLAN - 1ST FLOOR

3/8" = 1'-0"



A10 ELEVATOR FLOOR PLAN - 2ND FLOOR

3/8" = 1'-0"

ELEVATOR GENERAL NOTES:

1. ALL ELEVATOR DESIGN AND DETAILS ARE PER THE BASIS OF DESIGN ELEVATOR. CONTRACTOR SHALL COORDINATE ALL ASPECTS OF THE ELEVATOR DESIGN AND DETAILS IF ANOTHER ELEVATOR MANUFACTURER OR MODEL IS SELECTED.
2. CONTRACTOR SHALL MAINTAIN SHAFT FIRE RATING CONTINUITY.
3. SEE FINISH SCHEDULE FOR ELEVATOR CAB FINISHES.
4. CONTRACTOR TO USE ELEVATOR MANUFACTURER'S DRAWINGS FOR ROUGH OPENINGS AND DOOR LOCATION.

BASIS OF DESIGN:

SHAFT FIRE RATED:	1 HR.
ELEVATOR MANUFACTURER:	THYSSENKRUPP
TYPE:	HYDRAULIC HOLELESS MACHINE ROOMLESS
MODEL:	ENDURA 3000 MRL (SEE SPEC BELOW)
CAPACITY:	3000 LBS
CABIN DIMENSIONS:	6'-8" x 4'-9" x 7'-11"
CLEAR CABIN HEIGHT:	7'-4"
DOORS:	1
MIN. DOOR ROUGH OPENING:	6'-0" x 8'-3"
DOOR SIZE:	3'-6" x 7'-0"
SHAFT SIZE:	8'-4" x 6'-4 3/4"
MIN. PIT DEPTH:	4'-0"
FLOOR TO FLOOR DISTANCE:	15'-0"
TOTAL OF TRAVEL DISTANCE:	15'-0"
NUMBER OF LEVELS:	2
MIN. CLEAR OVERHEAD:	____
HOIST BEAM HEIGHT:	SEE SECTIONS
SPEED:	110 FPM UP / 135 FPM DOWN
POWER:	460 V, 3 PHASE, 60 CYCLES

VERO CLASSICAL SCHOOL

Vero Classical School
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VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
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ELEVATOR PLANS, SECTIONS, DETAILS

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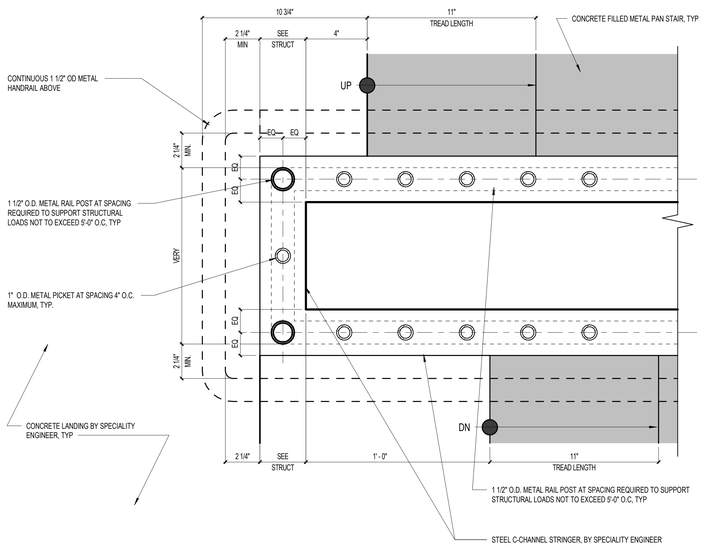
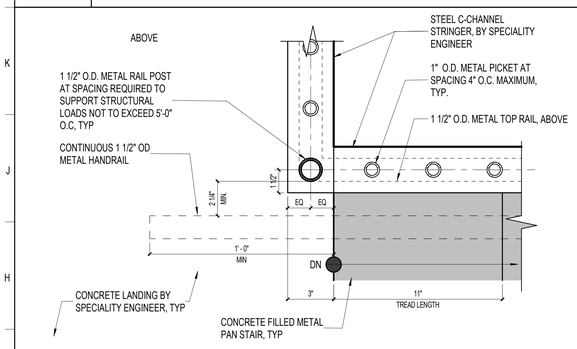


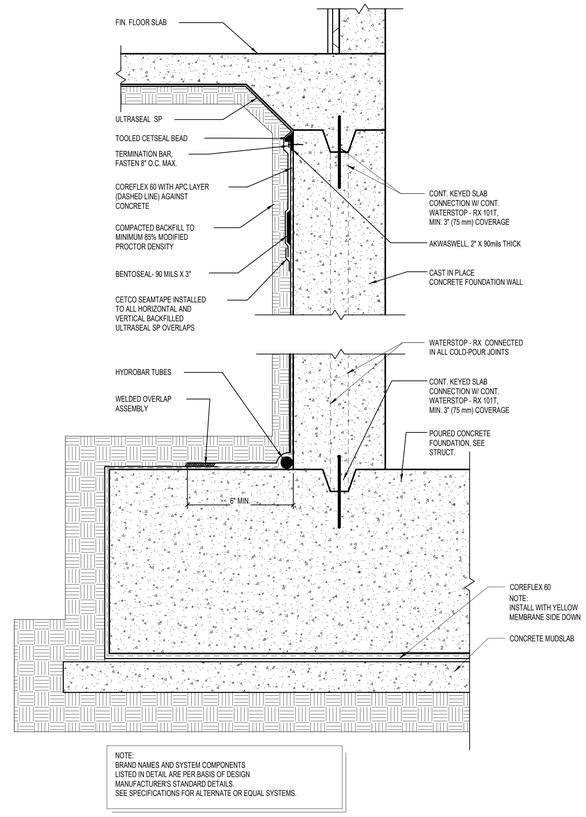
1 GUARDRAIL PLAN DETAIL

3" = 1'-0"



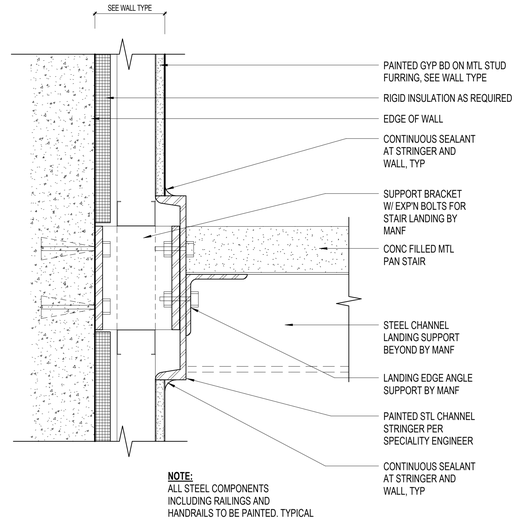
2 GUARDRAIL PLAN DETAIL

3" = 1'-0"



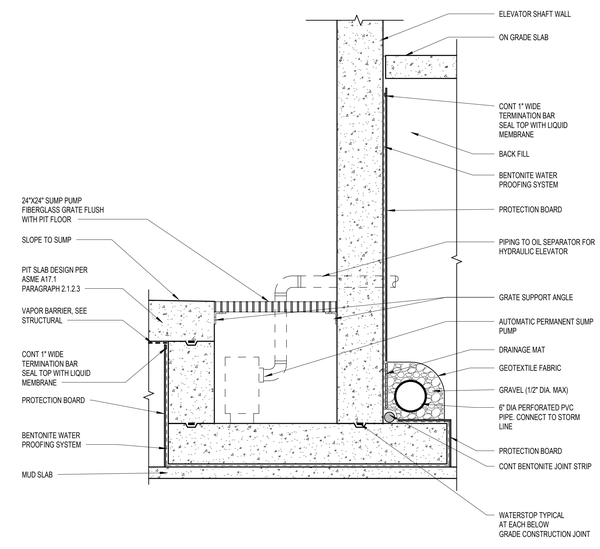
G13 TYPICAL VERTICAL WALL WATERPROOFING DETAIL

1 1/2" = 1'-0"



3 STAIR STRINGER DETAIL

3" = 1'-0"



A7 ELEVATOR PIT SECTION AT WATER PUMP

1" = 1'-0"

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VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

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ELEVATOR / STAIR DETAILS

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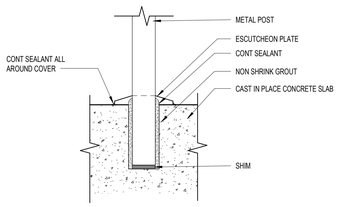
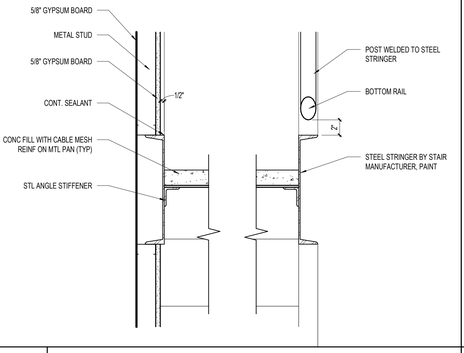


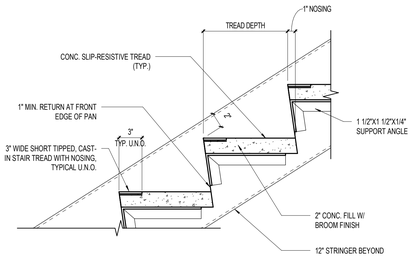
N1 GUARDRAIL POST DETAIL

3" = 1'-0"



N4 STAIR DETAIL- CROSS SECTION AT TREAD

1 1/2" = 1'-0"



N8 STAIR DETAIL- TREAD AND RISER

1 1/2" = 1'-0"

HR3-C-AL-CA

HANDRAIL OR GUARD RAIL TYPE — FINISH

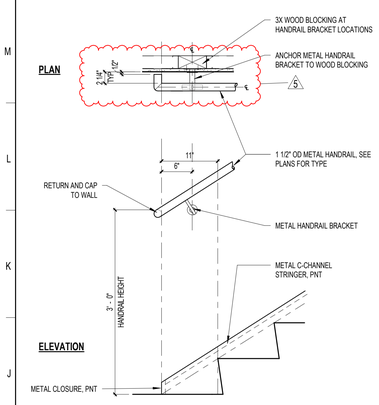
SUBSTRATE FOR RAILING OR HANDRAIL — MATERIAL

HANDRAIL & GUARDRAIL TYPES SCHEDULE

TYPE	TOP RAILING SIZE	BOTTOM RAILING SIZE	RAILING MATERIAL	RAILING FINISH	POST SIZE	PICKETS SIZE	HANDRAIL SIZE	MATERIAL	FINISH
HR1-C-AL-PC	-	-	-	-	-	-	1 1/2" OD.	ALUMINUM	POWDER COAT-TBD
HR2-S-AL-PC	-	-	-	-	1 1/2" OD.	-	1 1/2" OD.	ALUMINUM	POWDER COAT-TBD
GR1-S-AL-PC	1 1/2" OD.	1 1/2" OD.	ALUMINUM	POWDER COAT TBD	1 1/2" OD.	1" OD. 4" O.C. MAX. PICKETS	1 1/2" OD.	ALUMINUM	POWDER COAT-TBD

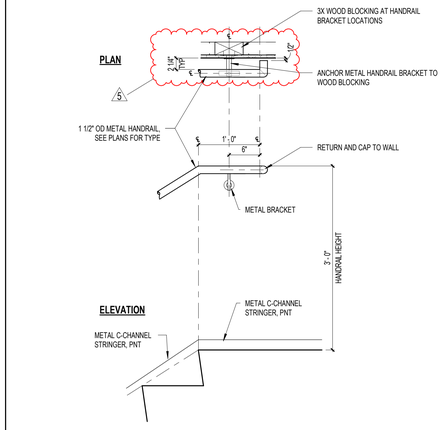
NOTES:

1. FOR GUARDRAILS AND HANDRAILS DETAILS, SEE TYPICAL STAIR HAND & GUARD RAILING DETAILS ON SHEET A491.
2. ALL HANDRAILS LOCATED AT WALLS MUST BE RETURNED TO THE WALL FACE AT EACH END, TYPICAL.



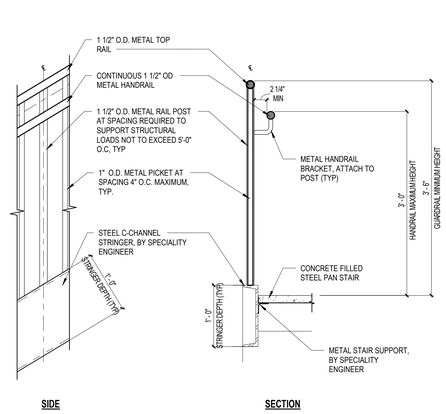
H1 HANDRAIL @ BOTTOM LANDING

1" = 1'-0"



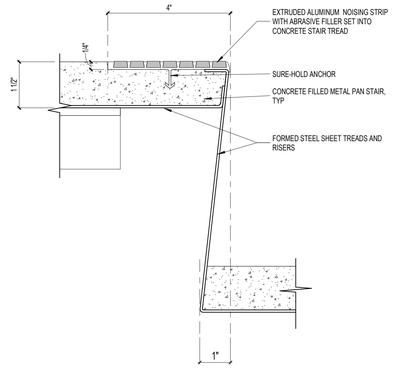
H4 HANDRAIL @ TOP LANDING

1" = 1'-0"



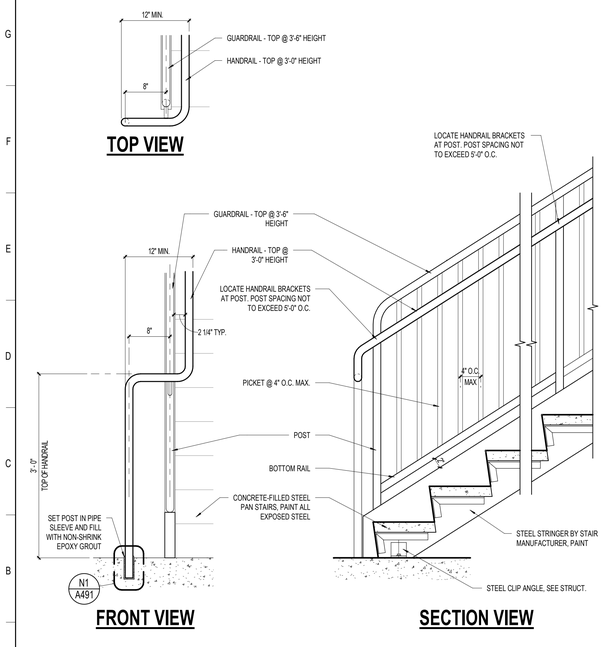
H8 STAIR GUARDRAIL DETAIL

1" = 1'-0"



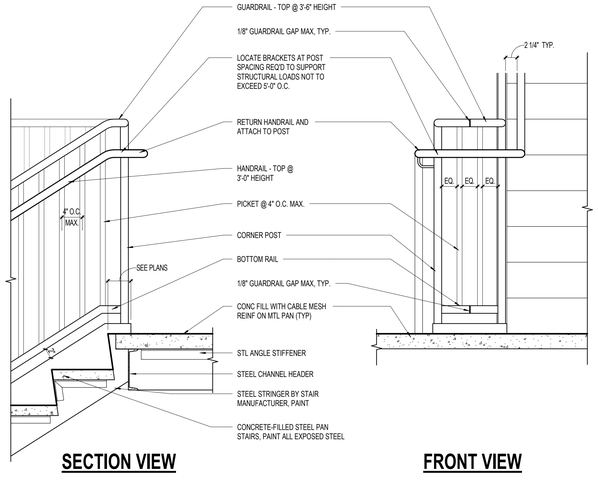
H12 TYPICAL STAIR NOSING DETAIL

6" = 1'-0"



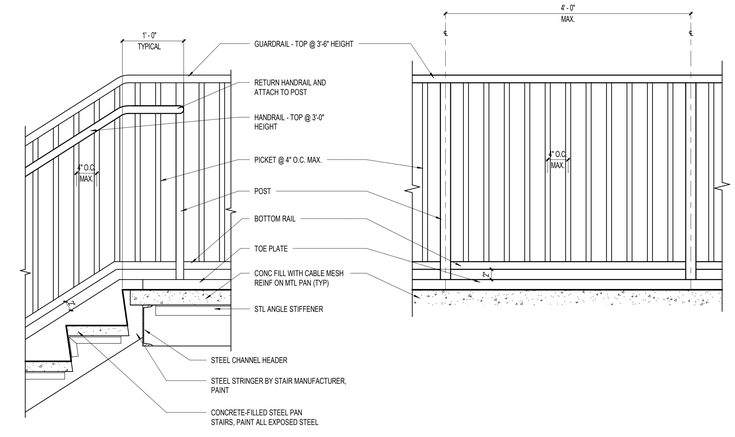
A1 STAIR HANDRAIL & GUARDRAIL DETAIL AT BOTTOM

1" = 1'-0"



A6 STAIR HANDRAIL & GUARDRAIL DETAIL AT INTERMEDIATE LANDING

1" = 1'-0"



A12 STAIR HANDRAIL & GUARDRAIL DETAIL AT TOP LANDING

1" = 1'-0"

VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL SCHOOL WEST - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
VERO BEACH, FLORIDA 32968

SCHENKEL SHULTZ

834 N. Orange Avenue
Winter Park, FL 32789
voice 407-872-3322

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www.schenkelshultz.com

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SEE FOR POLICY AND INFORMATION

REVISIONS

MARK	DESCRIPTION	DATE
5	Addendum -04 - IRC BUILDING REVIEW COMMENTS	6/6/2025

COMM. NO.: 2024117
ISSUE DATE: 12/23/2024
DRAWN BY: Author

STAIR DETAILS

A491
BID/ PERMIT DOCUMENTS

6/6/2025 8:20:57 PM
Autodesk Docs://2024117 Vero Classical School/2024117-VERO CLASSICAL SCHOOL-A-R2025.rvt

DOOR SCHEDULE

DOOR NUMBER	DOOR PANEL HEIGHT	DOOR PANEL WIDTH	DOOR PANEL TYPE	DOOR PANEL MATERIAL	DOOR PANEL GLAZING	DOOR FRAME TYPE	DOOR FRAME MATERIAL	DOOR/FRAME RATING	DOOR/ FRAME STC RATING	ACCESS CONTROL	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	DOOR HARDWARE	COMMENTS
1-101.1	8' - 0"	6' - 0"	FG(2)	ALUM.	GL-1	ST	ALUM.			YES	J10/ A511	J10/ A511	A5/ A511	01	5, 6, 15 1
1-101.2	8' - 0"	6' - 0"	FG(2)	ALUM.	GL-1	2	ALUM.				J5/ A511	E5/ A511	A5/ A511	02	
1-102.1	8' - 0"	6' - 0"	N(2)	WD	GT	2	HM			YES	E10/ A511	E10/ A511	-	12	5, 15, 16, 18 1
1-102.2	8' - 0"	6' - 0"	N(2)	WD	FG-45	2	HM	45			N1/ A511	N1/ A511	-	14	
1-102.3	8' - 0"	6' - 0"	FG(2)	ALUM.	GL-1	ST	ALUM.			YES	J10/ A511	J10/ A511	A5/ A511	01	5, 6, 15 1
1-102.4	8' - 0"	6' - 0"	FG(2)	ALUM.	GT	ST	ALUM.				J10/ A511	N5/ A511	-	13	6
1-103.1	8' - 0"	6' - 0"	FG(2)	WD	GT	2	HM			YES	N1/ A511	N1/ A511	-	17	5, 16, 15
1-103.2	7' - 0"	3' - 0"	N	WD	GT	1	HM				N14/ A511	N14/ A511	-	26	
1-104.1	7' - 0"	3' - 0"	N	WD	GT	1	HM				N14/ A511	N14/ A511	-	26	
1-104.2	7' - 0"	3' - 0"	N	WD	GT	1	HM				N14/ A511	N14/ A511	-	26	
1-105.1	7' - 0"	3' - 0"	N	WD	GT	1	HM				N14/ A511	N14/ A511	-	26	
1-105.2	7' - 0"	3' - 0"	N	WD	GT	1	HM				N14/ A511	N14/ A511	-	29A	
1-105A	7' - 0"	3' - 0"	F	HM	-	1	HM				N14/ A511	N14/ A511	-	25	
1-106.1	7' - 0"	3' - 0"	N	WD	GT	1	HM				N14/ A511	N14/ A511	-	26	
1-106.2	7' - 0"	3' - 0"	N	WD	GT	1	HM				N14/ A511	N14/ A511	-	29	
1-107	7' - 0"	3' - 0"	N	WD	GT	1	HM				N14/ A511	N14/ A511	-	29	
1-108	7' - 0"	3' - 0"	N	WD	GT	1	HM				N14/ A511	N14/ A511	-	29	
1-109	7' - 0"	3' - 0"	N	WD	GT	1	HM				N14/ A511	N14/ A511	-	29	
1-110	7' - 0"	3' - 0"	N	WD	GT	1	HM				N14/ A511	N14/ A511	-	29	
1-111.1	7' - 0"	3' - 0"	N	WD	GT	1	HM				N14/ A511	N14/ A511	-	26	
1-111.2	7' - 0"	3' - 8"	N	HM	GL-1	1	HM				J1/ A511	E1/ A511	A1/ A511	09	
1-112	7' - 0"	3' - 0"	F	WD	-	1	HM				N14/ A511	N14/ A511	-	22	
1-112A	7' - 0"	3' - 0"	F	HM	-	1	HM				J1/ A511	E1/ A511	A1/ A511	10	
1-112B	7' - 0"	3' - 0"	F	HM	-	1	HM				J1/ A511	E1/ A511	A1/ A511	10	
1-113A	7' - 0"	3' - 0"	F	WD	-	1	HM				N14/ A511	N14/ A511	-	24	
1-113B	7' - 0"	3' - 0"	F	WD	-	1	HM				N14/ A511	N14/ A511	-	22	
1-114	7' - 0"	3' - 0"	F	WD	-	1	HM				N14/ A511	N14/ A511	-	22	
1-115	7' - 0"	3' - 0"	N	WD	GT	1	HM				N14/ A511	N14/ A511	-	28	
1-116	7' - 0"	3' - 0"	N	WD	GT	1	HM				N14/ A511	N14/ A511	-	26	
1-116A	7' - 0"	3' - 0"	F	HM	-	1	HM				N14/ A511	N14/ A511	-	24	
1-117	7' - 0"	4' - 0"	N	WD	GT	1	HM		45		N14/ A511	N14/ A511	A14/ A511	27	2,7 1
1-118	7' - 0"	3' - 0"	N2	WD	GT	1	HM				N14/ A511	N14/ A511	-	26	
1-118A	7' - 0"	3' - 0"	F	WD	-	1	HM				N14/ A511	N14/ A511	-	25	
1-119	7' - 0"	4' - 0"	N	WD	GT	1	HM		45		N14/ A511	N14/ A511	A14/ A511	27	2,7 1
1-120	7' - 0"	3' - 0"	N2	WD	GT	1	HM				N14/ A511	N14/ A511	-	26	
1-120A	7' - 0"	3' - 0"	F	WD	-	1	HM				N14/ A511	N14/ A511	-	25	
1-121	7' - 0"	4' - 0"	N	WD	GT	1	HM				N14/ A511	N14/ A511	-	23	
1-122	7' - 0"	3' - 0"	N2	WD	GT	1	HM				N14/ A511	N14/ A511	-	26	
1-122A	7' - 0"	3' - 0"	F	WD	-	1	HM				N14/ A511	N14/ A511	-	25	
1-123	7' - 0"	3' - 0"	N2	WD	GT	1	HM				N14/ A511	N14/ A511	-	26	
1-123A	7' - 0"	3' - 0"	F	WD	-	1	HM				N14/ A511	N14/ A511	-	25	
1-124	7' - 0"	3' - 0"	N2	WD	GT	1	HM				N14/ A511	N14/ A511	-	26	
1-124A	7' - 0"	3' - 0"	F	WD	-	1	HM				N14/ A511	N14/ A511	-	25	
1-125	7' - 0"	3' - 0"	N2	WD	GT	1	HM				N14/ A511	N14/ A511	-	26	
1-125A	7' - 0"	3' - 0"	F	WD	-	1	HM				N14/ A511	N14/ A511	-	25	
1-126	7' - 0"	3' - 0"	N2	WD	GT	1	HM				N14/ A511	N14/ A511	-	26	
1-126A	7' - 0"	3' - 0"	F	WD	-	1	HM				N14/ A511	N14/ A511	-	25	
1-127.1	7' - 0"	3' - 0"	F	WD	-	1	HM	45			N14/ A511	N14/ A511	-	21	PANIC HARDWARE
1-127.2	7' - 0"	3' - 0"	F	HM	-	1	HM				J1/ A511	E1/ A511	A1/ A511	07A	PANIC HARDWARE
1-127A	7' - 0"	3' - 0"	F	WD	-	1	HM	45			N14/ A511	N14/ A511	-	22	
1-128	7' - 0"	3' - 0"	F	HM	-	1	HM	90			N14/ A511	N14/ A511	-	22	
1-129.1	7' - 0"	6' - 0"	FG(2)	ALUM.	GL-1	2	ALUM.				J5/ A511	E5/ A511	A5/ A511	02	6
1-129.2	7' - 0"	6' - 0"	FG(2)	ALUM.	GL-1	2	ALUM.			1	J5/ A511	E5/ A511	A5/ A511	02	6 1
1-129.3	7' - 0"	6' - 0"	FG(2)	WD	FG-45	2	HM	45			N14/ A511	N14/ A511	-	15	18
1-129.4	7' - 0"	6' - 0"	FG(2)	WD	FG-45	2	HM	45			N14/ A511	N14/ A511	-	15	18
1-129.5	7' - 0"	6' - 0"	FG(2)	HM	GL-1	2	HM				J5/ A511	E5/ A511	A5/ A511	05	
1-130.1	7' - 0"	6' - 0"	FG(2)	ALUM.	GL-1	2	ALUM.				J5/ A511	E5/ A511	A5/ A511	02	6
1-130.2	7' - 0"	6' - 0"	FG(2)	ALUM.	GL-1	2	ALUM.			YES	J5/ A511	E5/ A511	A5/ A511	01	5, 6, 15
1-130.3	7' - 0"	3' - 0"	F	HM	-	1	HM				J1/ A511	E1/ A511	A1/ A511	07	
1-131 1	7' - 0"	3' - 0"	N	WD	GT	1	HM				N14/ A511	N14/ A511	-	22	
1-132	7' - 0"	3' - 0"	F	WD	-	1	HM				N14/ A511	N14/ A511	-	24	
1-133	7' - 0"	3' - 0"	F	WD	-	1	HM				N14/ A511	N14/ A511	-	22	
1-134	7' - 0"	3' - 0"	F	WD	-	1	HM				N14/ A511	N14/ A511	-	31	
1-135	7' - 0"	3' - 0"	F	WD	-	1	HM				N14/ A511	N14/ A511	-	31	
1-136.1	7' - 0"	6' - 0"	F(2)	WD	-	2	HM	45			N14/ A511	N14/ A511	-	18	
1-136.2	7' - 0"	6' - 0"	F(2)	HM	-	2	HM				J1/ A511	E1/ A511	A1/ A511	06	
1-137	7' - 0"	3' - 0"	F	WD	-	1	HM	45			N14/ A511	N14/ A511	-	30	
1-137-B	7' - 0"	3' - 0"	F	HM	-	1	HM				J1/ A511	E1/ A511	A1/ A511	-	
1-137A	7' - 0"	3' - 0"	F	WD	-	1	HM				N14/ A511	N14/ A511	-	24	
1-138	7' - 0"	3' - 0"	F	WD	-	1	HM	45			N14/ A511	N14/ A511	-	30	
1-138-B	7' - 0"	3' - 0"	F	HM	-	1	HM				J1/ A511	E1/ A511	A1/ A511	-	
1-138A	7' - 0"	3' - 0"	F	WD	-	1	HM				N14/ A511	N14/ A511	-	24	
1-139	7' - 0"	3' - 0"	F	WD	-	1	HM	45			N14/ A511	N14/ A511	-	22	
1-140	7' - 0"	3' - 0"	F	HM	-	1	HM				J1/ A511	E1/ A511	A1/ A511	07	
1-141	7' - 0"	3' - 0"	F	WD	-	1	HM	45			N14/ A511	N14/ A511	-	22	
1-142	7' - 0"	3' - 0"	F	HM	-	1	HM				N14/ A511	N14/ A511	-	22	
1-143	7' - 0"	3' - 0"	N	WD	FG-45	1	HM	45			N14/ A511	N14/ A511	-	28	
1-143A	7' - 0"	3' - 0"	F	WD	-	1	HM				N14/ A511	N14/ A511	-	25	
1-201.1	7' - 0"	6' - 0"	SD	WD	-	2	HM		45		J14/ A511	J14/ A511	A14/ A511	16 5	2

DOOR SCHEDULE

DOOR NUMBER	DOOR PANEL HEIGHT	DOOR PANEL WIDTH	DOOR PANEL TYPE	DOOR PANEL MATERIAL	DOOR PANEL GLAZING	DOOR FRAME TYPE	DOOR FRAME MATERIAL	DOOR/FRAME RATING	DOOR/ FRAME STC RATING	ACCESS CONTROL	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	DOOR HARDWARE	COMMENTS
1-201.2	7' - 0"	3' - 0"	N	WD	GT	1	HM		45		N14/ A511	N14/ A511	A14/ A511	20	2 1
1-202	7' - 0"	3' - 0"	N	WD	GT	1	HM				N14/ A511	N14/ A511	-	26	
1-203	7' - 0"	3' - 0"	F	WD	-	1	HM				N14/ A511	N14/ A511	-	24	
1-204	7' - 0"	3' - 0"	F	WD	-	1	HM				N14/ A511	N14/ A511	-	24	
1-205	7' - 0"	3' - 0"	N	WD	GT	1	HM				N14/ A511	N14/ A511	-	26	
1-206	7' - 0"	3' - 0"	N	WD	GT	1	HM				N14/ A511	N14/ A511	-	26	
1-207	7' - 0"	3' - 0"	N	WD	GT	1	HM				N14/ A511	N14/ A511	-	26	
1-208	7' - 0"	3' - 0"	N	WD	GT	1	HM				N14/ A511	N14/ A511	-	26	
1-209	7' - 0"	3' - 0"	N	WD	GT	1	HM				N14/ A511	N14/ A511	-	26	
1-210	7' - 0"	3' - 0"	F	WD	-	1	HM				N14/ A511	N14/ A511	-	31	
1-211	7' - 0"	3' - 0"	F	WD	-	1	HM				N14/ A511	N14/ A511	-	31	
1-212	7' - 0"	3' - 0"	F	WD	-	1	HM				N14/ A511	N14/ A511	-	22	
1-213	7' - 0"	3' - 0"	N	WD	GT	1	HM				N14/ A511	N14/ A511	-	26	
1-214	7' - 0"	3' - 0"	N	WD	GT	1	HM				N14/ A511	N14/ A511	-	26	
1-215	7' - 0"	3' - 0"	N	WD	GT	1	HM				N14/ A511	N14/ A511	-	26	
1-216	7' - 0"	3' - 0"	N	WD	GT	1	HM				N14/ A511	N14/ A511	-	26	
1-217	7' - 0"	3' - 0"	N	WD	GT	1	HM				N14/ A511	N14/ A511		26	
1-218	7' - 0"	3' - 0"	N	WD	GT	1	HM				N14/ A511	N14/ A511	-	26	
1-219	7' - 0"	3' - 0"	F	WD	-	1	HM				N14/ A511	N14/ A511		21	
1-219A	7' - 0"	3' - 0"	F	WD	-	1	HM	45			N14/ A511	N14/ A511	-	22	
1-220	7' - 0"	3' - 0"	F	WD	-	1	HM	90			N14/ A511	N14/ A511	-	22	
1-221	7' - 0"	4' - 0"	F	HM	-	1	HM	45 5			N14/ A511	N14/ A511		23	1
1-C102	7' - 0"	6' - 0"	N(2)	HM	GL-1	2	HM			YES	J1/ A511	E1/ A511	A1/ A511	03	5, 15, 18
1-C103	7' - 0"	6' - 0"	N(2)	HM	GL-1	2	HM			YES	J1/ A511	E1/ A511	A1/ A511	03	5, 15, 18
1-ST1.1	7' - 0"	6' - 0"	N(2)	WD	FG-60	2	HM	60			N10/ A511	N10/ A511	-	11	1, 14
1-ST1.2	7' - 0"	6' - 0"	N(2)	HM	GL-1	2	HM				J1/ A511	E1/ A511	A1/ A511	04	18
1-ST1.3	7' - 0"	6' - 0"	N(2)	WD	FG-60	2	HM	60			N10/ A511	N10/ A511	-	11	14
1-ST2.1	7' - 0"	3' - 0"	N	HM	FG-60	3	HM	60			N1/ A511	N1/ A511	-	19	14
1-ST2.2	7' - 0"	6' - 0"	N(2)	HM	GL-1	2	HM				J1/ A511	E1/ A511	A1/ A511	08	1
1-ST2.3	7' - 0"	6' - 0"	N(2)	WD	FG-60	2	HM	60			N1/ A511	N1/ A511	-	19 5	14

NOTE: SEE SPECIFICATIONS FOR DOOR HARDWARE SETS

GENERAL DOOR NOTES:

- GALVANIZED DOOR & FRAME - ALL EXTERIOR DOORS AND INTERIOR DOORS WHERE WATER MAY OCCUR.
- INSULATED DOOR - ALL EXTERIOR DOORS.
- TAMPER PROOF HINGES - ALL EXTERIOR DOORS.
- DOOR GASKET (SOUND SEALS) AROUND DOOR PERIMETER - ALL SPACES.
- KEYED REMOVABLE MULLION - ALL DOOR PAIRS WITH EGRESS HARDWARE.
- DOOR GASKET (SMOKE SEAL) AROUND DOOR PERIMETER - ALL DOORS IN RATED CORRIDORS THAT ARE NOT EDUCATIONAL SPACES.
- WEATHER SEALS AROUND DOOR PERIMETER - ALL EXTERIOR DOORS.
- THRESHOLD - ALL EXTERIOR DOORS.
- DOORS TO BE SUPPLIED BY KITCHEN EQUIPMENT SUPPLIER.
- OVERHEAD DOOR OVERALL HEIGHT MUST INCLUDE OPENING HEIGHT PLUS DISTANCE TO HOUSING/OPERATOR LOCATION ABOVE CEILING.
- PROVIDE ALUM. DOOR DRIP EDGE FOR ALL EXTEROPR DOORS, TYPICAL U.N.O.
- UNDERCUT AND OVERCUT DOOR FOR TOILET ROOMS, TYPICAL U.N.O.

DOOR COMMENTS

1. 180 DEGREE SWING - COORDINATE LOCATION IN WALL TO ALLOW FOR FULL SWING. IF DOUBLE DOOR, BOTH PANELS ARE TO SWING 180 DEGREES WHERE APPLICABLE.
2. SOUND CONTROL ADJUSTABLE DOOR GASKET / AUTOMATIC DOOR BOTTOM / THRESHOLD.
3. ~~PROVIDE WIDE ANGLE VIEWER.~~
4. ~~ADA DOOR OPERATOR - ONE LEAF - SEE ELECT AND DOOR HARDWARE.~~
5. PREP FRAME AND DOOR FOR ACCESS CONTROL.
6. HARDWARE BY MANUFACTURER.
7. METAL SOUND CONTROL DOOR ASSEMBLY / STC 45 MINIMUM.
8. ~~EXISTING ACCESS CONTROL TO BE PROGRAMMED - COORDINATE WITH OWNER.~~
9. ~~BULLET RESISTANT DOOR, FRAME, HARDWARE, AND GLAZING - UL 752 RATING LEVEL 3 BALLISTIC.~~
10. ~~BULLET RESISTANT DOOR, FRAME, HARDWARE, AND GLAZING - UL 752 RATING LEVEL 7 BALLISTIC.~~
11. ~~SECURITY HARDWARE.~~
12. ~~DOOR INTERLOCKED SO ONLY ONE CAN BE OPENED AT A TIME. TO BE ON A 30 SEC. DELAY W/PROXY CARD OVERRIDE.~~
13. ~~MESH FENCE GATE, LATCH AND DEADBOLT.~~
14. HOLD OPEN DOOR STOP.
15. LATCH CONFIRMATION.
16. REMOTE LOCK/UNLOCK FOR DOOR FROM RECEPTION WORKSTATION, BUZZER SWITCH.
17. ~~KEY ACTIVATED MOTORIZED OVERHEAD DOOR WITH SECURITY CONTACTS.~~
18. KEYED REMOVABLE CENTER MULLION.

1

VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL SCHOOL WEST - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
VERO BEACH, FLORIDA 32968

SCHENKEL SHULTZ

834 N. Orange Avenue
Winter Park, FL 32789
voice 407-872-3322

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REVISIONS

MARK	DESCRIPTION	DATE
1	Addendum 01	01/ 24/ 2025
5	Addendum -04 - IRC BUILDING REVIEW COMMENTS	5/6/2025

COMM. NO.: 2024117
ISSUE DATE: 12/23/2024
DRAWN BY: JL

DOOR SCHEDULE

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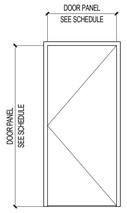
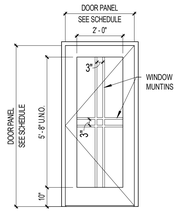
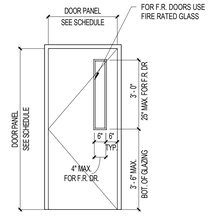
DOOR PANEL TYPES



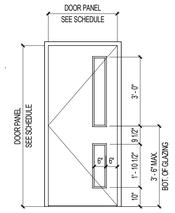
PANEL TYPE: F



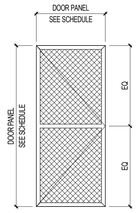
PANEL TYPE: FG



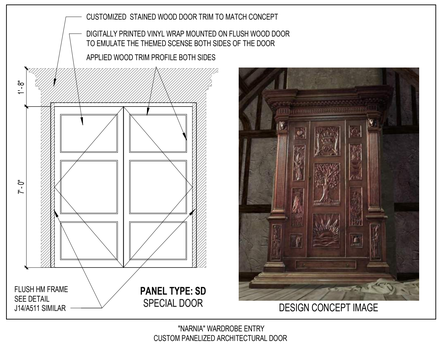
PANEL TYPE: N



PANEL TYPE: N2
PRIMARY CLASS ROOM



PANEL TYPE: GD
GATE DOOR



PANEL TYPE: SD
SPECIAL DOOR

DESIGN CONCEPT IMAGE

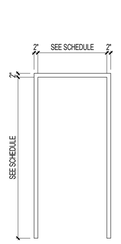
"NARNIA" WARDROBE ENTRY
CUSTOM PANELIZED ARCHITECTURAL DOOR

GLAZING LEGEND

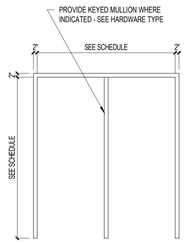
GL-1	INSULATED, LAMINATED AND TINTED GLAZING - LARGE MISSILE IMPACT RESISTANT
SP-1	INSULATED AND TINTED SPANDREL GLAZING
SP-2	CLEAR SPANDREL GLAZING
GT	1/4" TEMPERED CLEAR GLAZING
GBR-3	BULLET RESISTANT GLAZING, LEVEL 3 (PER UL-752)
FG-45	FIRE RATED GLAZING - 45 MIN.
FG-60	FIRE RATED GLAZING - 60 MIN.

NOTE:
1. ALL EXTERIOR GLAZING SHALL BE 'GL-1' UNLESS NOTED OTHERWISE.
2. ALL INTERIOR GLAZING SHALL BE 'GT' (1/4" TEMPERED CLEAR GLAZING) UNLESS NOTED OTHERWISE.
3. ALL INTERIOR GLAZING ON STAIR DOOR SHALL BE 'FG-60' UNLESS NOTED OTHERWISE.

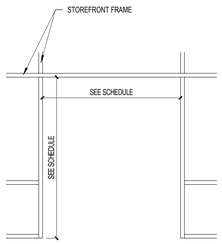
DOOR FRAME TYPES



DOOR FRAME TYPE: 1

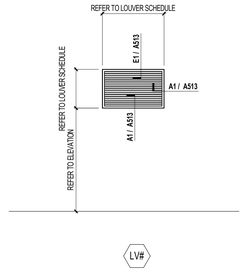


DOOR FRAME TYPE: 2

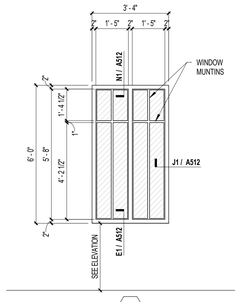


DOOR FRAME TYPE: ST
DOOR FRAME INTEGRATED INTO STOREFRONT SYSTEM,
REFER TO STORE FRONT ELEVATION

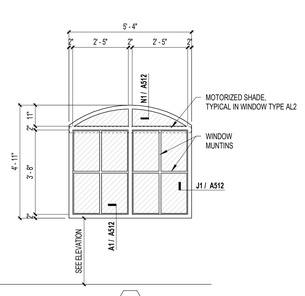
LOUVERS



EXTERIOR WINDOW TYPES

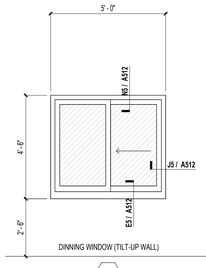


AL1
GLAZING TYPE: GL-1



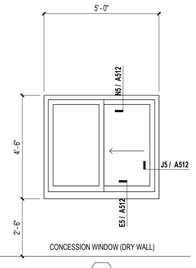
AL2
GLAZING TYPE: GL-1

DINING/ CONCESSION WINDOWS



DINNING WINDOW (TILT-UP WALL)

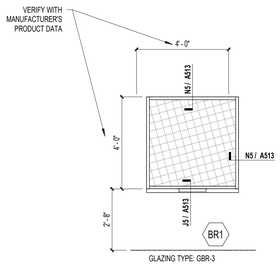
AL3A
GLAZING TYPE: GL-1



CONCESSION WINDOW (DRY WALL)

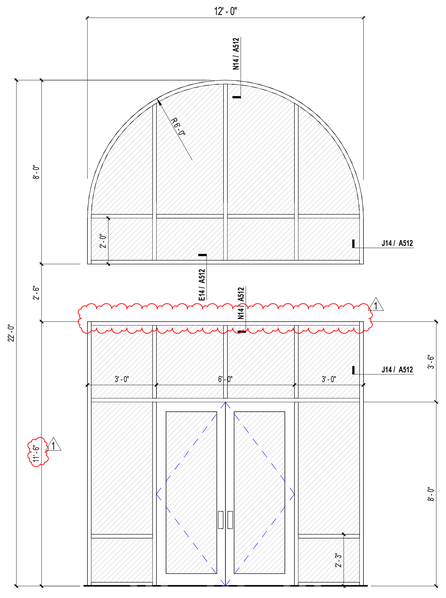
AL3B
GLAZING TYPE: GT

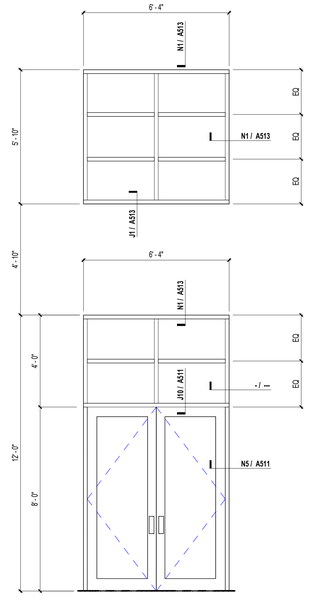
TRANSACTION WINDOW



BR1
GLAZING TYPE: GBR-3

STOREFRONT TYPES





SF2
GLAZING TYPE: GT

VERO CLASSICAL SCHOOL

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VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

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REVISIONS

MARK	DESCRIPTION	DATE
1	Addendum - 01	01/ 24/ 2025

COMM. NO.: 2024117
ISSUE DATE: 12/23/2024
DRAWN BY: JL

DOORS, STOREFRONT, WINDOWS AND LOUVER TYPES

A501

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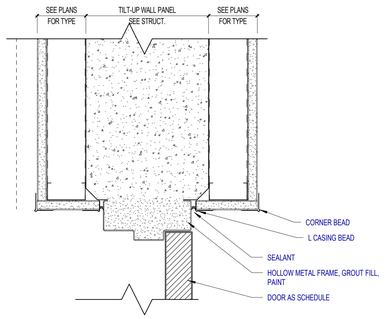
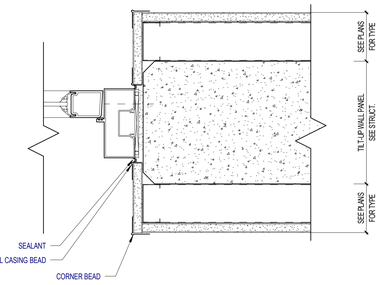


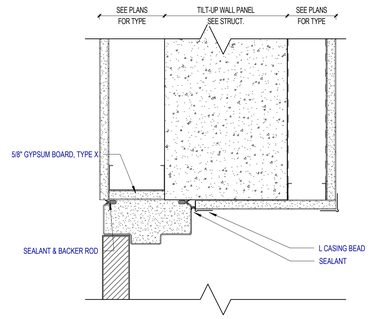
N1 — DOOR_INT. - CTW - HM HEAD/JAMB

3" = 1'-0"



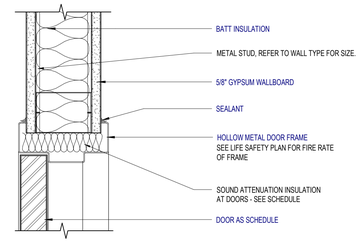
N5 — DOOR_INT. - CTW - AL JAMB

3" = 1'-0"



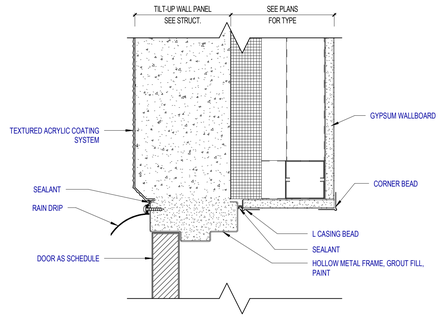
N10 — DOOR_INT. - CTW - HM HEAD/JAMB (OPEN 180 DEGREE)

3" = 1'-0"



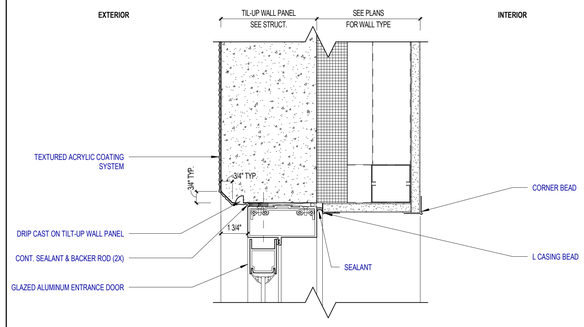
N14 — DOOR_INT. - GW - HM HEAD/ JAMB

3" = 1'-0"



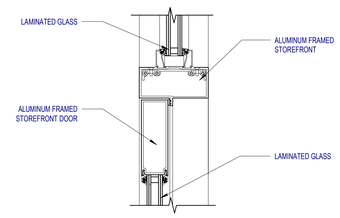
J1 — DOOR_EXT. - CTW - HM HEAD

3" = 1'-0"



J5 — DOOR_EXT. - CTW - AL HEAD

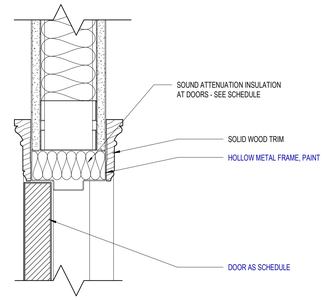
3" = 1'-0"



NOTE:
THE LANDINGS ON EACH SIDE OF ANY DOOR SHALL NOT VARY BY MORE THAN ONE-HALF INCH FOR THE LENGTH OF THE WIDEST LEAF OF THE DOOR. REF: NFPA-101 7.2.1.3.2

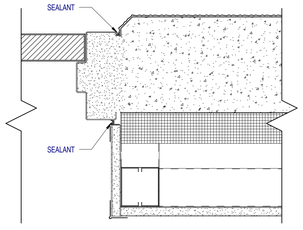
J10 — DOOR TRANSOM_ AL HEAD/ JAMB

3" = 1'-0"



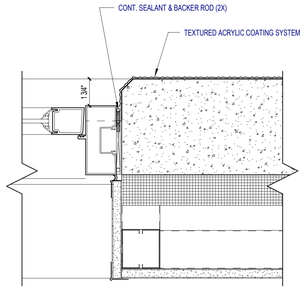
J14 — DOOR_INT. - GW - HM HEAD/ JAMB (LIBRARY DOOR)

3" = 1'-0"



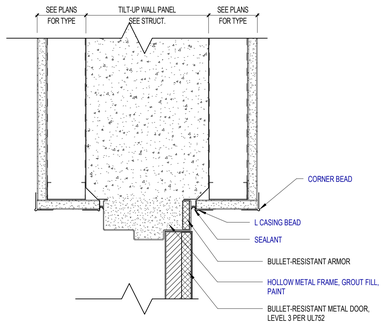
E1 — DOOR_EXT. - CTW - HM JAMB

3" = 1'-0"



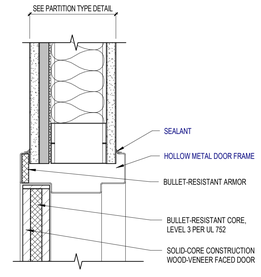
E5 — DOOR_EXT. - CTW - AL JAMB

3" = 1'-0"



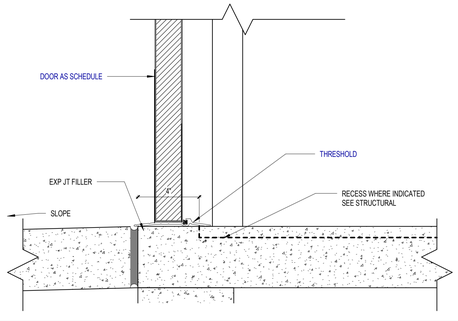
E10 — DOOR_INT. (BALLISTIC) - CTW - METAL HEAD/JAMB

3" = 1'-0"



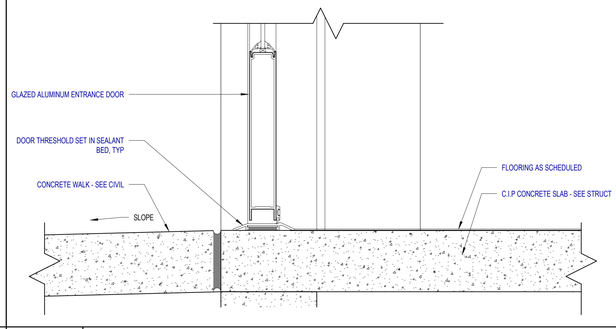
E14 — DOOR_INT. (BALLISTIC) - GW - HM HEAD/ JAMB

3" = 1'-0"



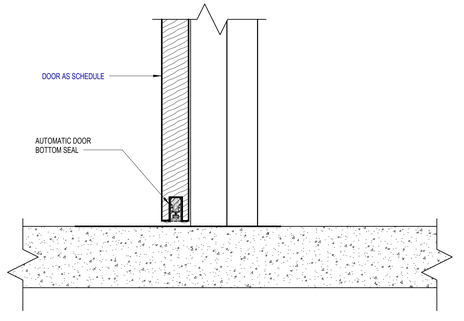
A1 — DOOR_EXT. - CTW. SILL

3" = 1'-0"



A5 — DOOR_EXT. - SF - AL SILL

NOT TO SCALE



A14 — DOOR_INT. - AUTOMATIC SILL

3" = 1'-0"

VERO CLASSICAL SCHOOL

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VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

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DETAILS - DOOR

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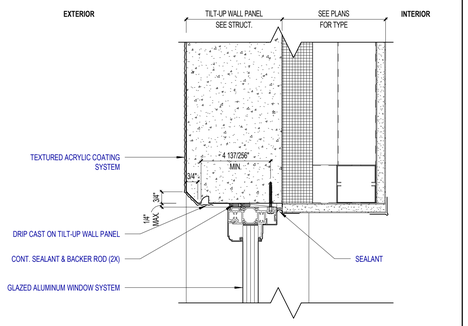
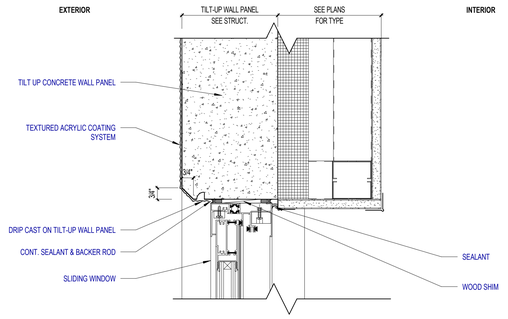


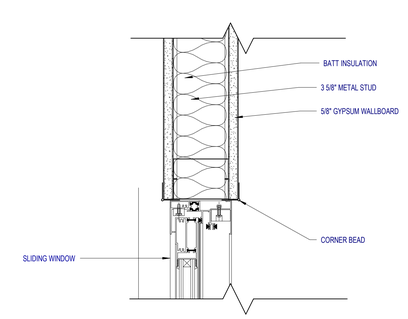
N1 WINDOW DETAIL - CTW - HEAD

3" = 1'-0"



N5 WINDOW DETAIL - CTW - SLIDING HEAD

3" = 1'-0"



N10 WINDOW DETAIL - GW - SLIDING HEAD

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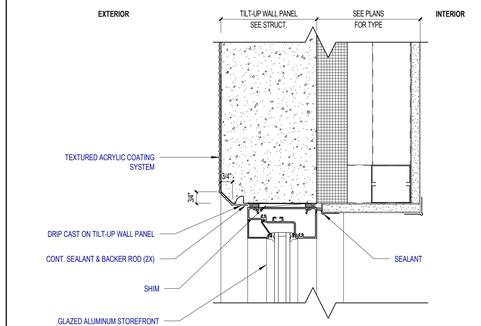
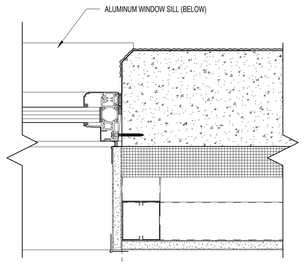


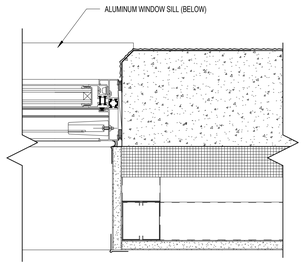
N14 STOREFRONT DETAIL - CTW - HEAD

3" = 1'-0"



J1 WINDOW DETAIL - CTW - JAMB

3" = 1'-0"



J5 WINDOW DETAIL - CTW - SLIDING JAMB

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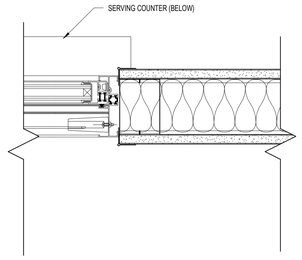

J10 WINDOW DETAIL - GW - SLIDING JAMB

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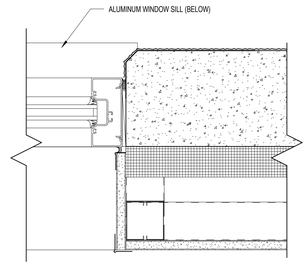
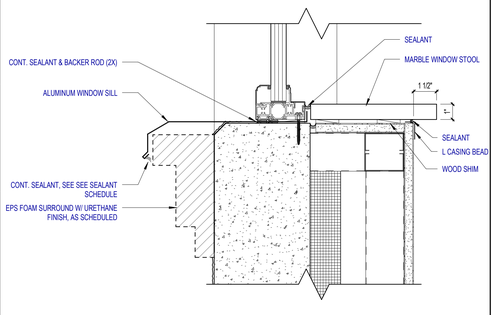


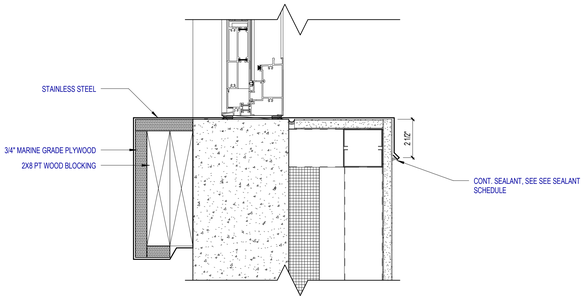
J14 STOREFRONT DETAIL - CTW - JAMB

3" = 1'-0"



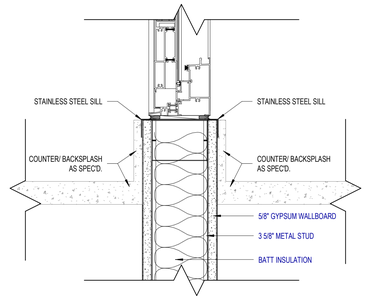
E1 WINDOW DETAIL - CTW - SILL

3" = 1'-0"



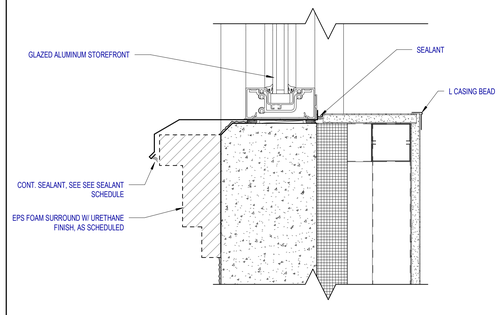
E5 WINDOW DETAIL - CTW - SLIDING SILL

3" = 1'-0"



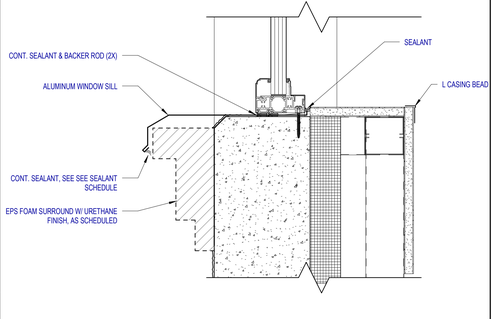
E10 WINDOW DETAIL - GW - SLIDING SILL

3" = 1'-0"



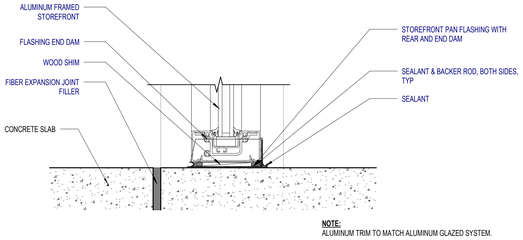
E14 STOREFRONT DETAIL - CTW - SILL

3" = 1'-0"



A1 WINDOW DETAIL - CTW - SILL (CLERESTORY)

3" = 1'-0"



NOTE:
ALUMINUM TRIM TO MATCH ALUMINUM GLAZED SYSTEM.

A14 STOREFRONT DETAIL - SILL AT FLOOR

3" = 1'-0"

VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
VERO BEACH, FLORIDA 32963

SCHENKEL SHULTZ

834 N. Orange Avenue
Winter Park, FL 32789
voice 407-872-3322

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DETAILS - WINDOW

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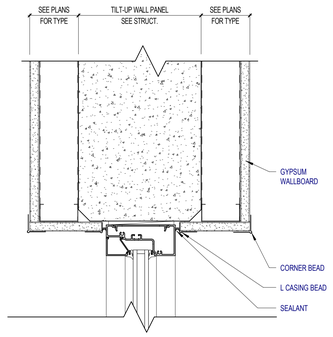
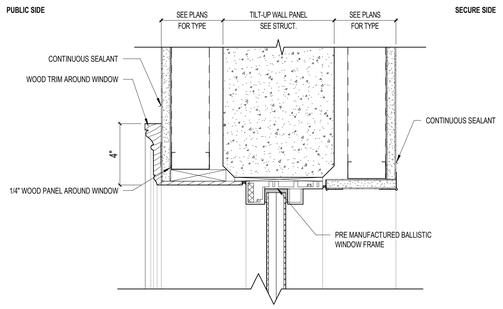


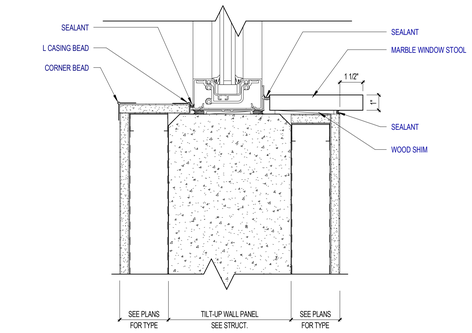
N1 STOREFRONT_INT. - CTW - HEAD/ JAMB

3" = 1'-0"



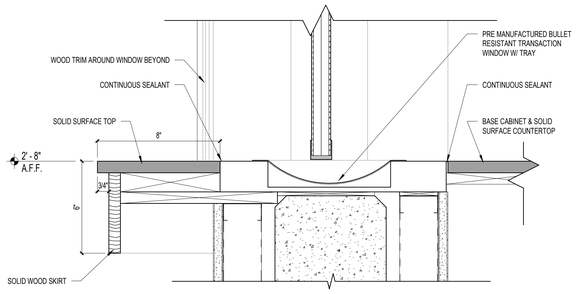
N5 WINDOW DETAIL - CTW - TRANSACTION HEAD/ JAMB

3" = 1'-0"



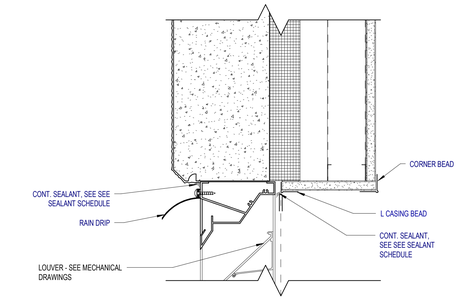
J1 STOREFRONT_INT. - CTW - SILL

3" = 1'-0"



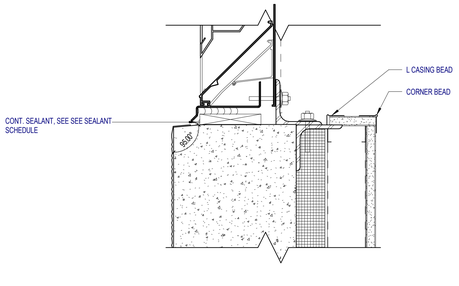
J5 WINDOW DETAIL - CTW - TRANSACTION SILL

3" = 1'-0"



E1 LOUVER DETAIL - CTW - HEAD

3" = 1'-0"



A1 LOUVER DETAIL - CTW - JAMB/ SILL

3" = 1'-0"

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DETAILS - WINDOW/ LOUVER

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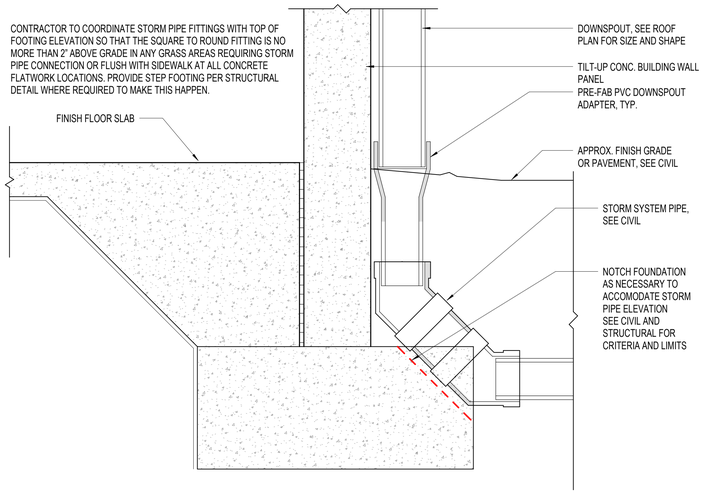
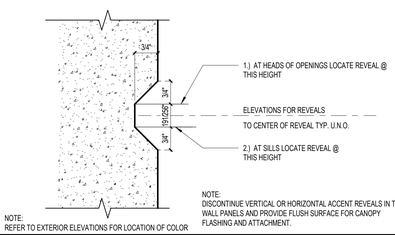


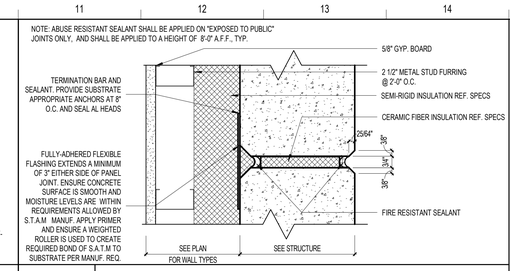
J1 TYPICAL DOWNSPOUT CONNECTION TO STORM

1 1/2" = 1'-0"



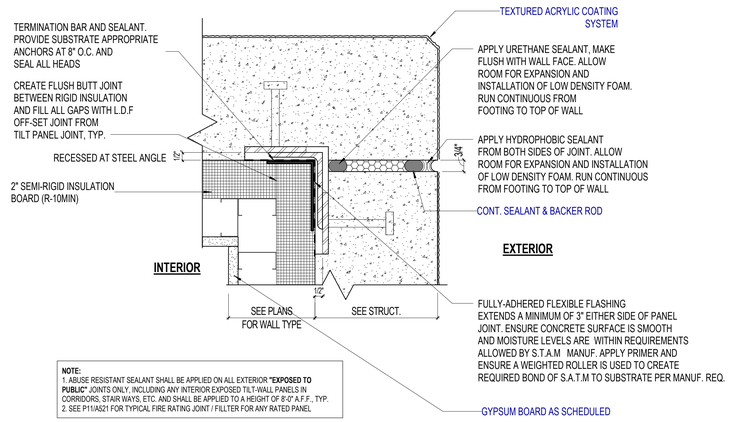
P7 TYPICAL HORIZ. OR VERT. REVEAL AT CONC. TILT WALL

6" = 1'-0"



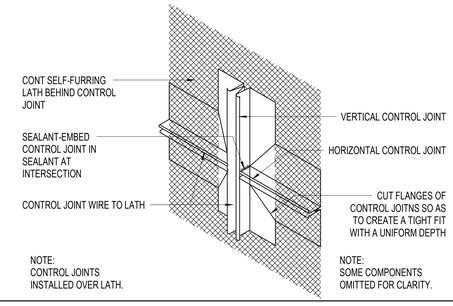
P11 TYPICAL VERTICAL FIRE RATED PANEL JOINT

3" = 1'-0"



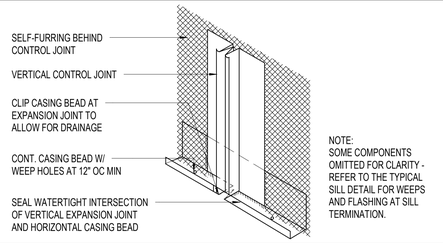
J7 BUTT CORNER PANEL JOINT

3" = 1'-0"



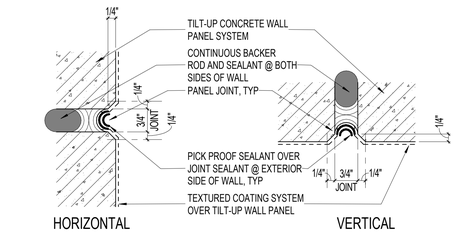
K14 CONTROL JOINT INTERSECTION

1" = 1'-0"



G14 CONTROL JOINT TERMINATION

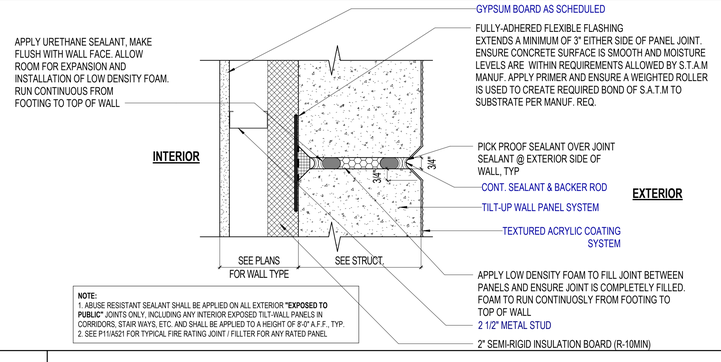
1" = 1'-0"



NOTE:
SEALANT SHALL BE APPLIED ON "EXPOSED TO PUBLIC" JOINTS TO A HEIGHT OF 8'-0" A.F.F., TYP. REFER TO ARCH SITE PLAN

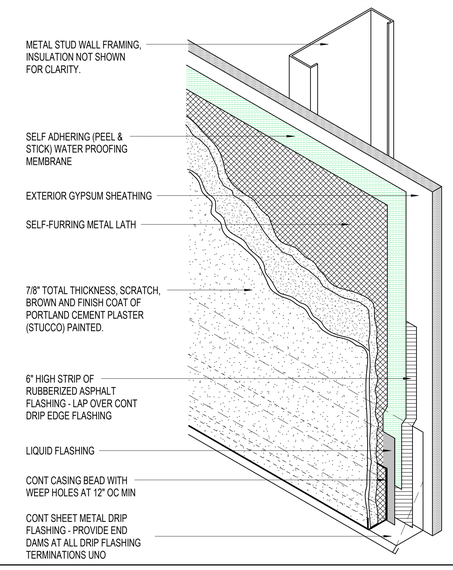
E1 TYPICAL JOINT DETAILS

6" = 1'-0"



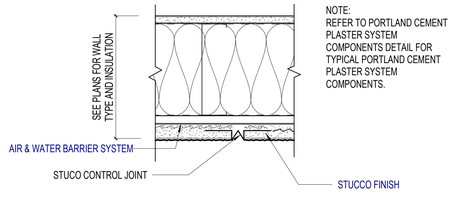
E7 TYPICAL VERTICAL PANEL JOINT

3" = 1'-0"



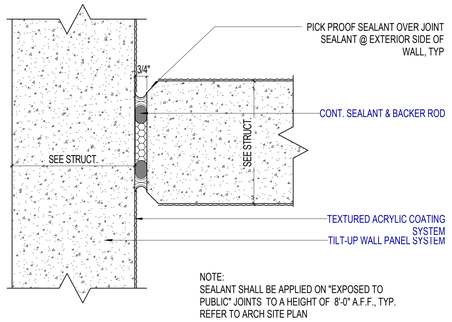
A14 PORTLAND CEMENT PLASTER SYSTEM

1 1/2" = 1'-0"



A1 VERTICAL CONTROL JOINT

3" = 1'-0"



A7 INTERIOR WLL EXPANSION JOINT

3" = 1'-0"

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DETAILS - TILT PANEL

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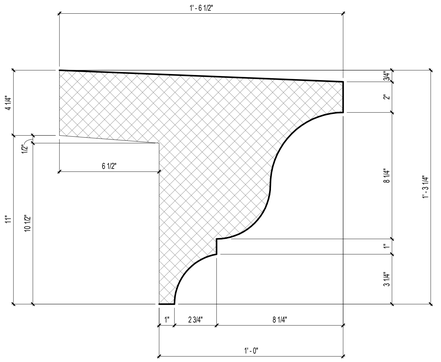
EPS FOAM NOTE:
1. ALL EXTERIOR EPS FOAMS SHALL HAVE HARD SHELL, PAINTED FINISH.
2. ALL EXTERIOR EPS FOAMS SHALL BE DIRECTLY ATTACHED TO THE WALL STRUCTURE USING PHYSICAL FASTENERS AS WELL AS CHEMICAL ADHESIVES.



L1 EPS PROFILE #02
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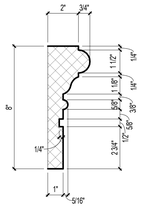
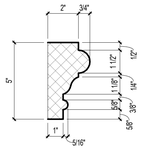


N5 EPS PROF. #04B
3" = 1'-0"



K5 EPS PROF. #04
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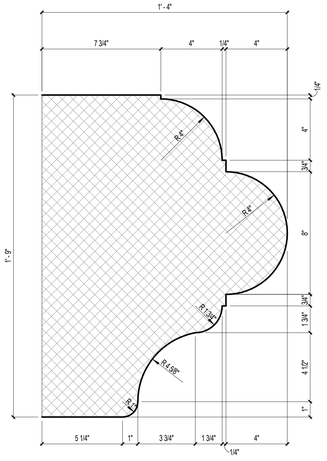

L7 EPS PROFILE #08
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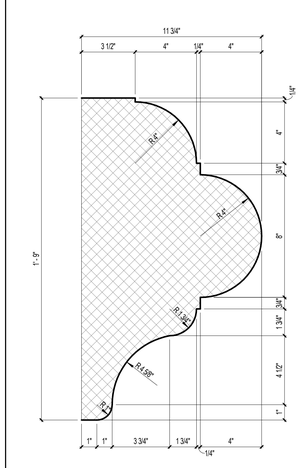

L10 EPS PROFILE #08B
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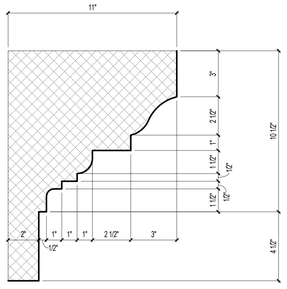
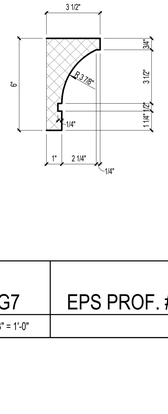


G1 EPS PROFILE #01B
3" = 1'-0"



A5 EPS PROF. #03
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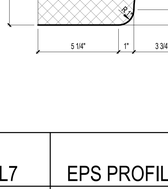

E5 EPS PROF. #03B
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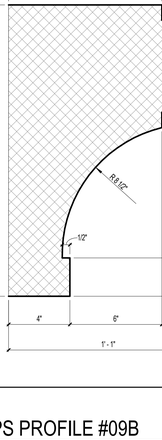
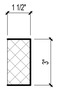
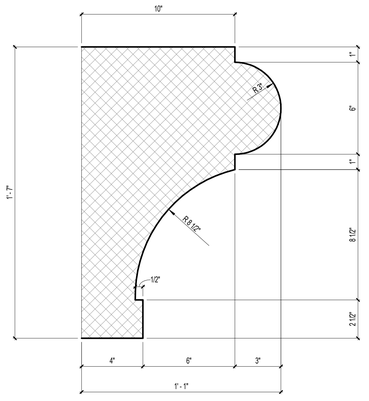


G7 EPS PROF. #07
3" = 1'-0"

D7 EPS PROF. #06
3" = 1'-0"





F9 EPS PROFILE #09B
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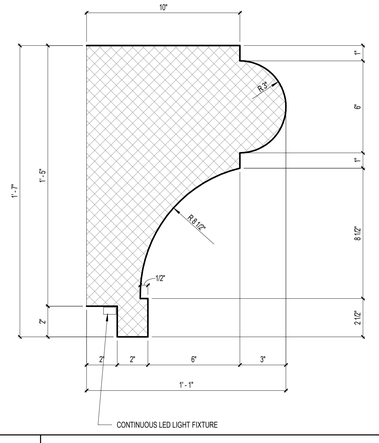

A9 EPS PROFILE #09
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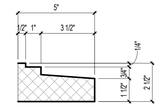
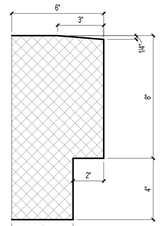


H13 EPS PROF. #11
3" = 1'-0"



H15 EPS PROF. #12
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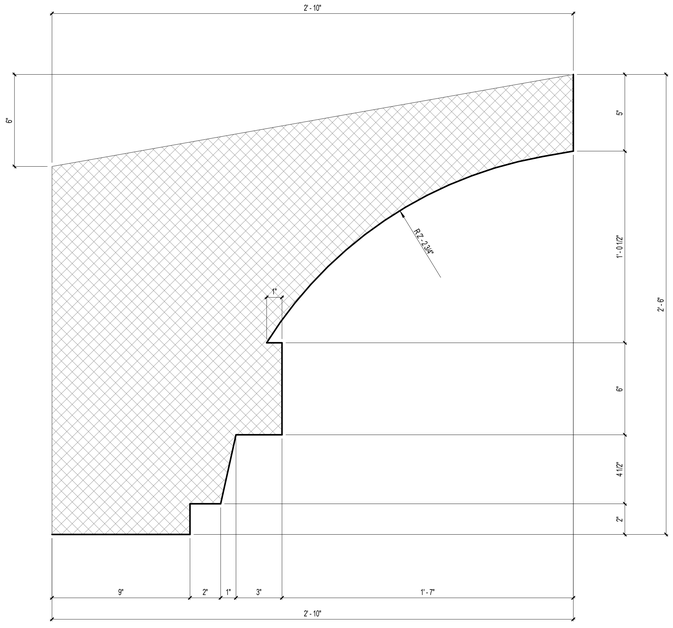

A13 EPS PROFILE #10
3" = 1'-0"

Vero Classical School
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VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

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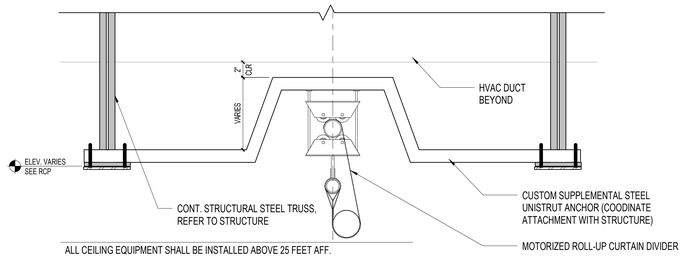
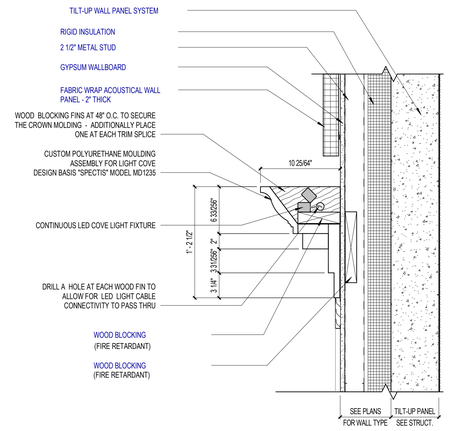


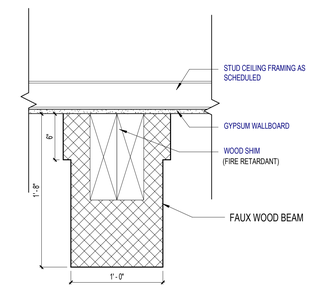
N13 — GYM CURTAIN DIVIDER DETAIL

1 1/2" = 1'-0"



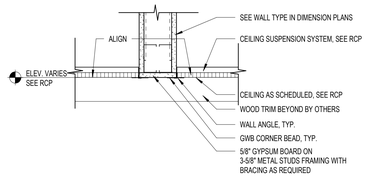
J9 — SECTION DETAIL - COVE LIGHT MOULDING

1 1/2" = 1'-0"



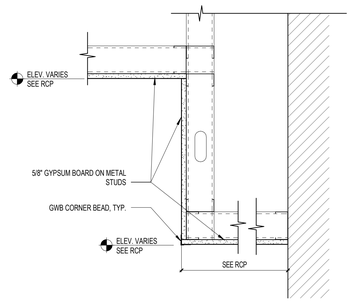
J13 — CEILING FAUX WOOD BEAM

1 1/2" = 1'-0"



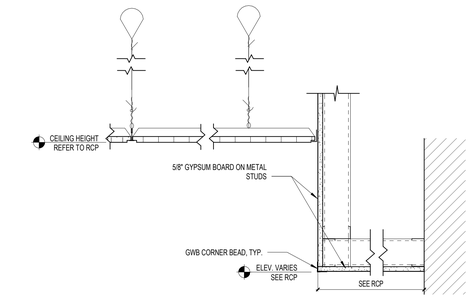
E1 — CEILING DETAIL

1 1/2" = 1'-0"



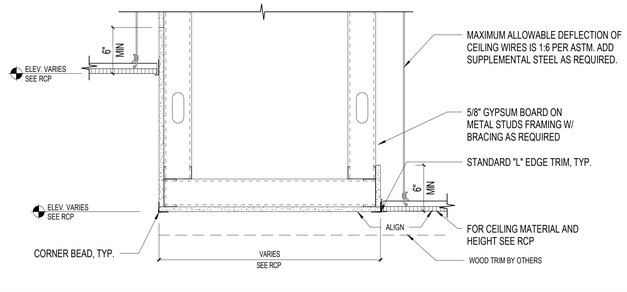
E9 — TIER GYPSUM CEILING DETAIL

1 1/2" = 1'-0"



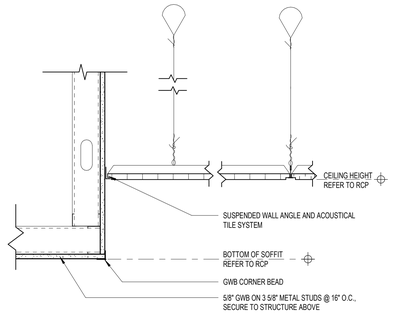
E13 — CEILING DETAIL

1 1/2" = 1'-0"



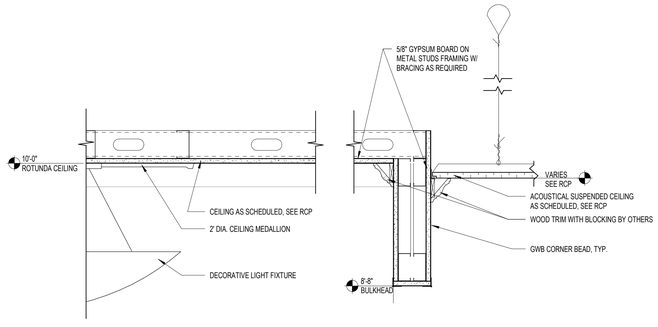
A1 — CEILING DETAIL

1 1/2" = 1'-0"



A9 — SOFFIT DETAIL AT ACOUSTICAL CEILING TYP.

1 1/2" = 1'-0"



A13 — BULKHEAD DETAIL AT CENTER ROTUNDA

1 1/2" = 1'-0"

VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
VERO BEACH, FLORIDA 32963

SCHENKEL SHULTZ

834 N. Orange Avenue
Winter Park, FL 32789
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DETAILS - CEILING

A541

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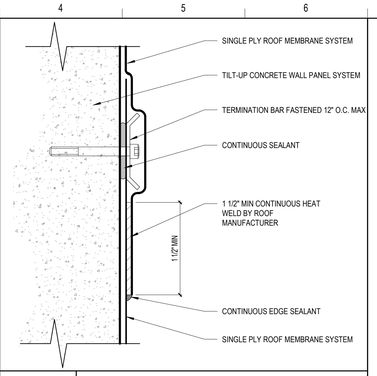
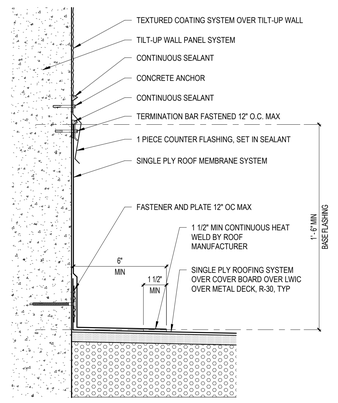


N4 — PARAPET TERMINATION BAR DETAIL

12" = 1'-0"



M7 — ROOF DETAIL

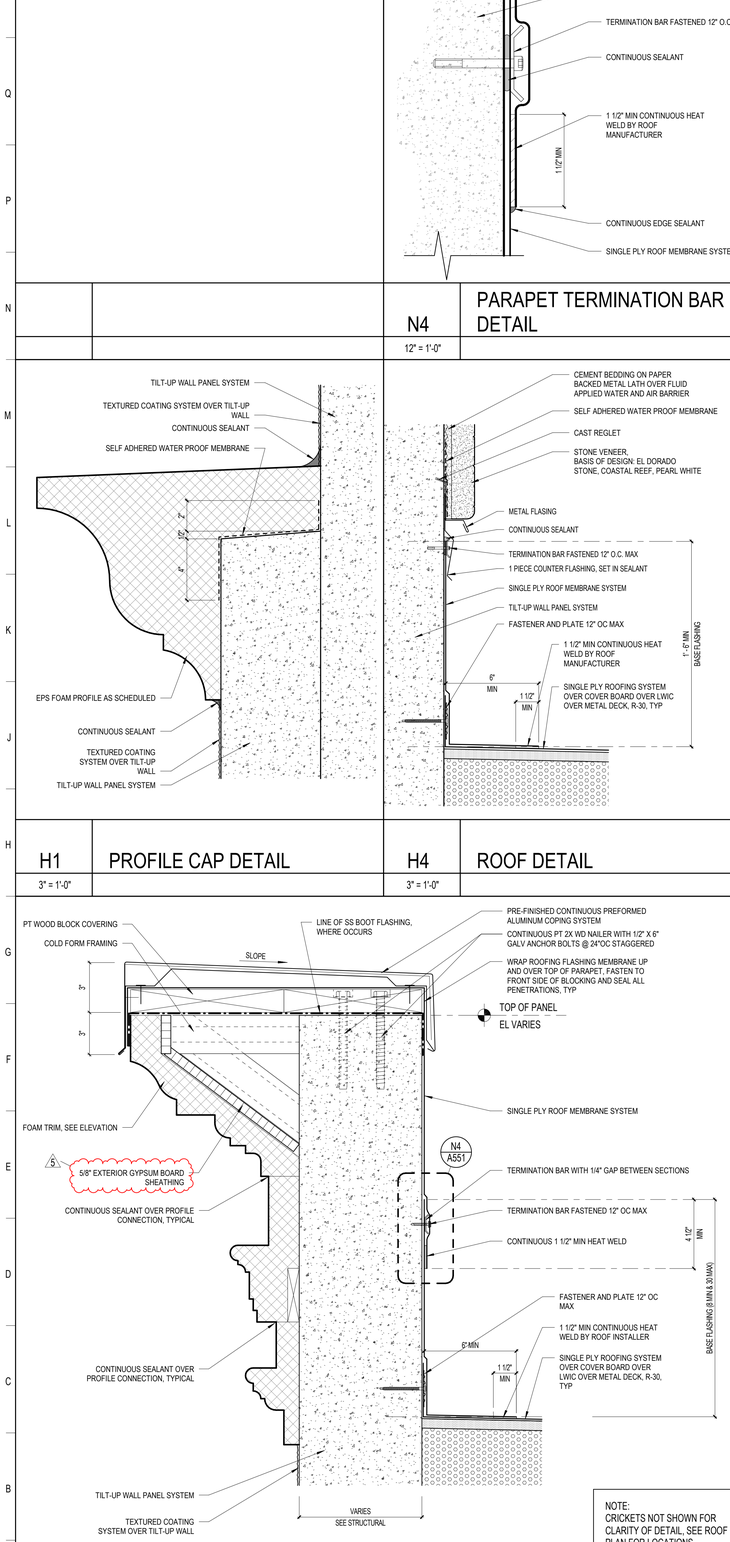
3" = 1'-0"

H1 — PROFILE CAP DETAIL

3" = 1'-0"

H4 — ROOF DETAIL

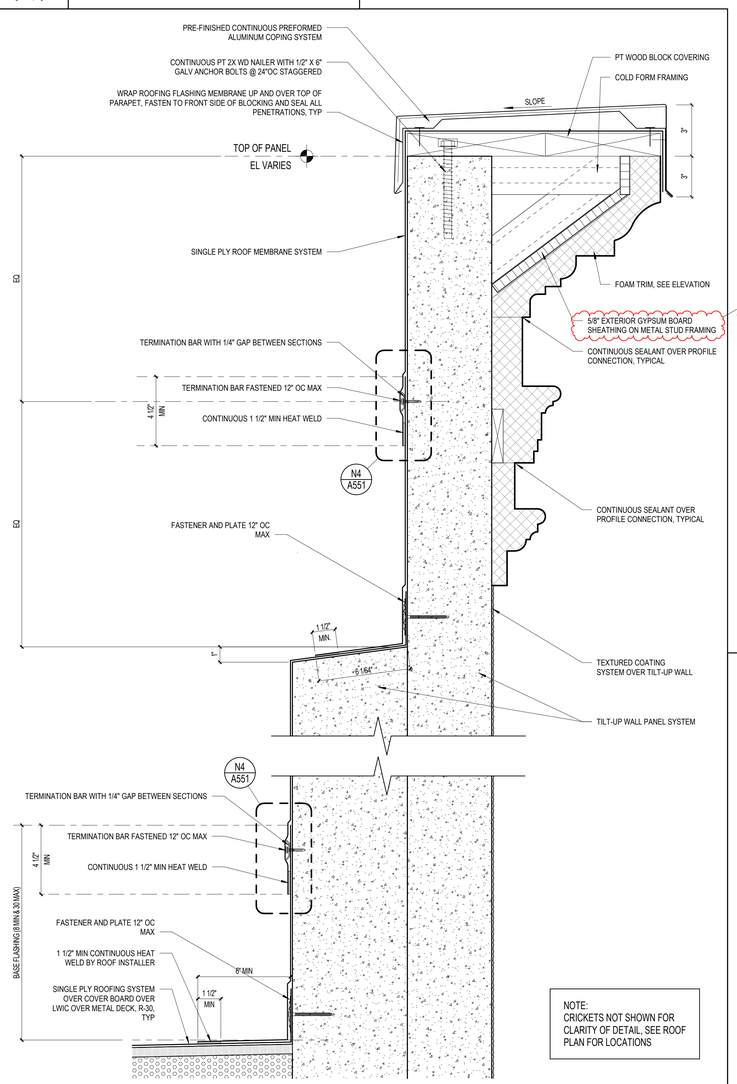
3" = 1'-0"



NOTE:
CRICKETS NOT SHOWN FOR CLARITY OF DETAIL, SEE ROOF PLAN FOR LOCATIONS

A1 — PARAPET DETAIL TYP.

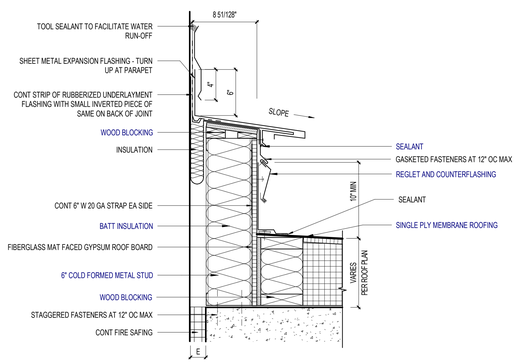
3" = 1'-0"



NOTE:
CRICKETS NOT SHOWN FOR CLARITY OF DETAIL, SEE ROOF PLAN FOR LOCATIONS

A7 — PARAPET DETAIL AT DOUBLE WALL

3" = 1'-0"



A13 — ROOF EXPANSION JOINT DETAIL

1 1/2" = 1'-0"

VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL SCHOOL WEST - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
VERO BEACH, FLORIDA 32968

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2	Addendum 02	02/ 07/ 2025
5	Addendum -04 - IRC BUILDING REVIEW COMMENTS	06/05/25

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DETAILS - ROOF

A551
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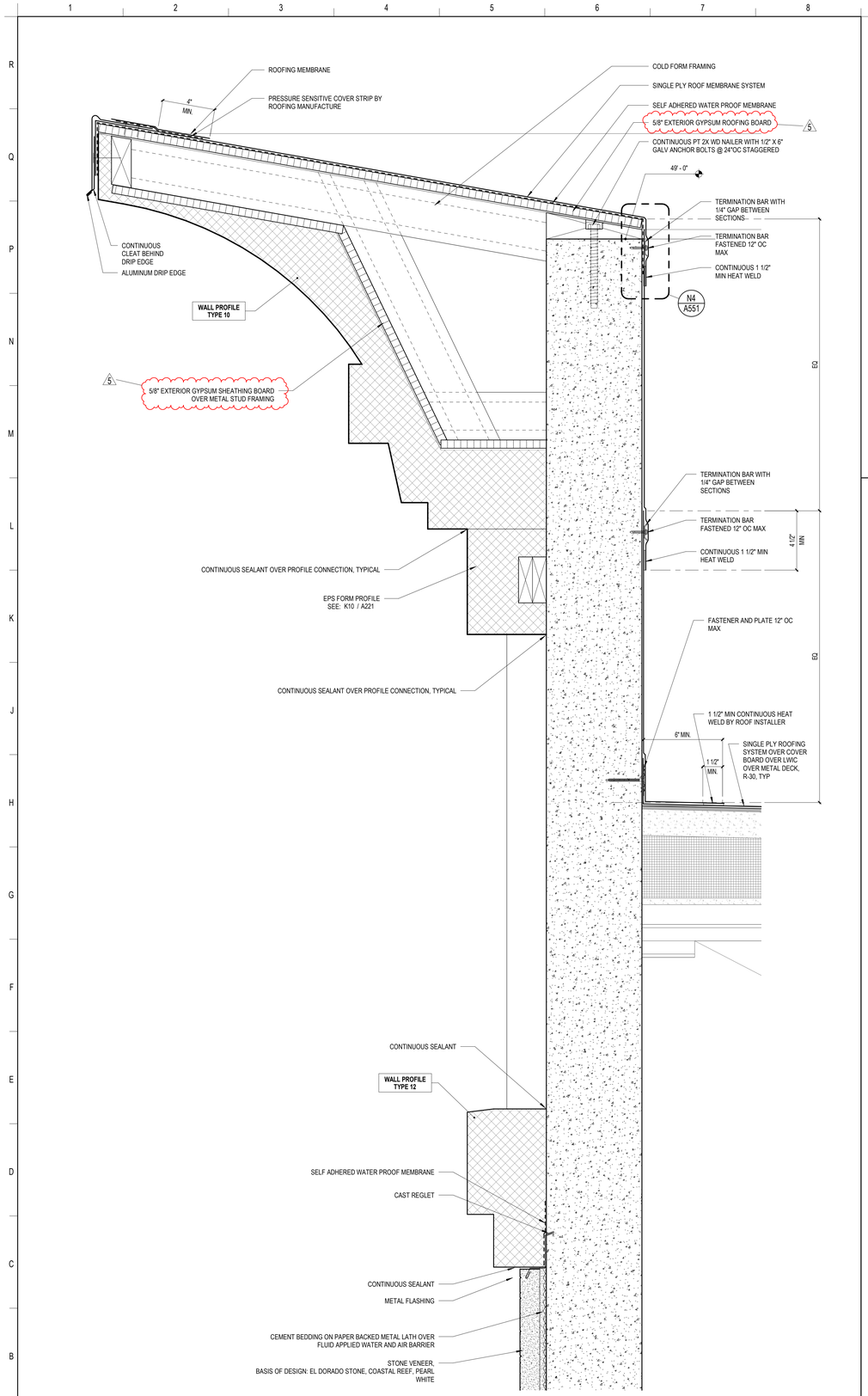
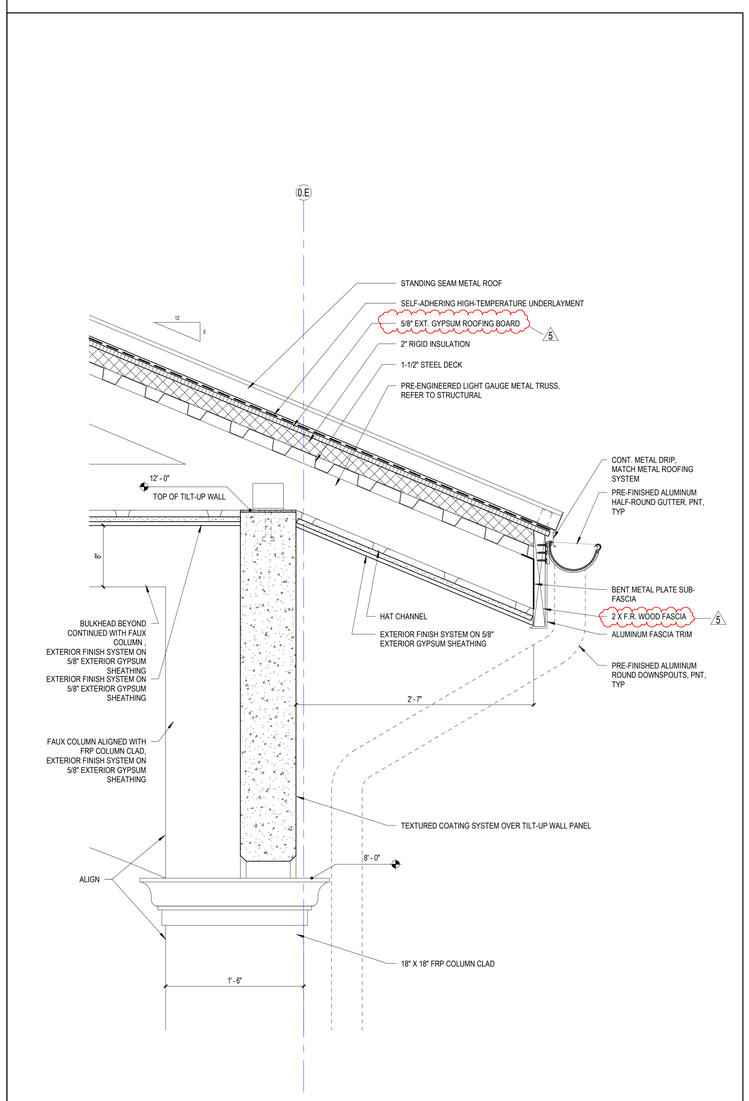


A1 PARAPET DETAIL AT TOWER

3" = 1'-0"



A9 BUILDING SECTION 06

1 1/2" = 1'-0"

VERO CLASSICAL SCHOOL

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5	Addendum -04 _ IRC BUILDING REVIEW COMMENTS	6/6/2025

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DETAILS - ROOF

A552
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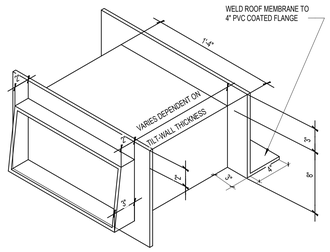
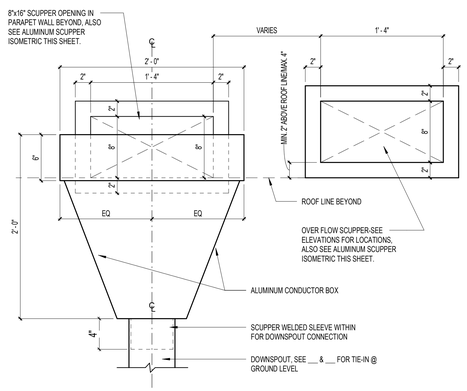
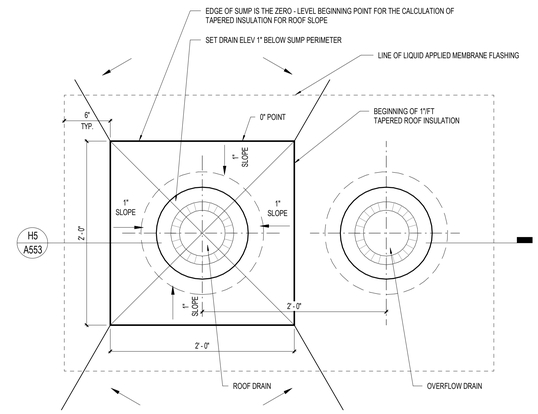


OVERFLOW SCUPPER DETAIL



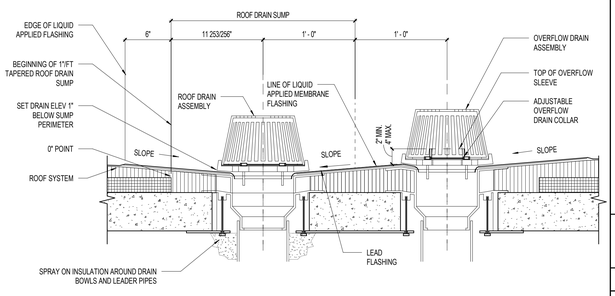
H1 SCUPPER & CONDUCTOR HEAD DETAIL

1 1/2" = 1'-0"



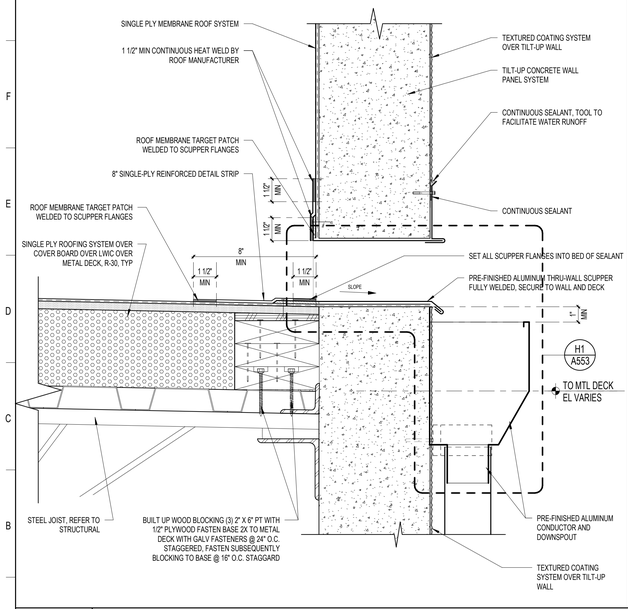
M5 ROOF DRAIN WITH ADJACENT OVERFLOW DRAIN

1 1/2" = 1'-0"



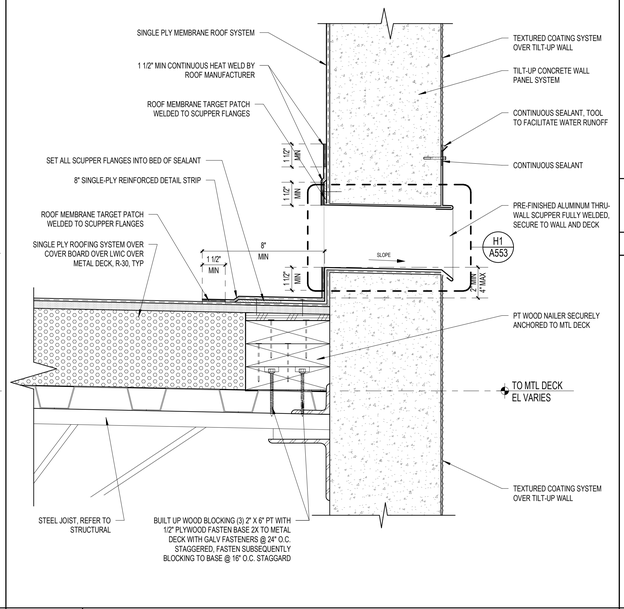
H5 ROOF DRAIN/ OVERFLOW SECTION

1 1/2" = 1'-0"



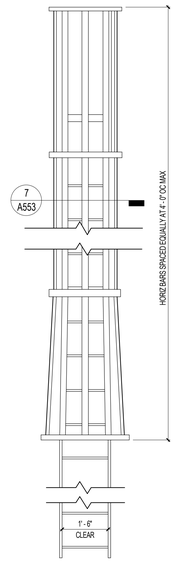
A1 SCUPPER - TILT WALL

3" = 1'-0"

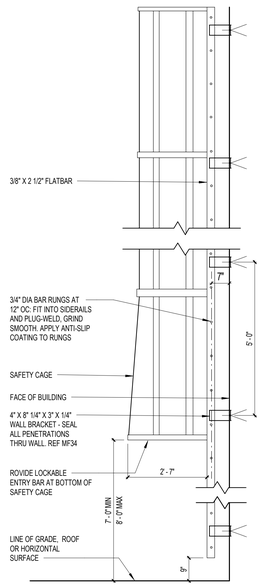


A7 OVERFLOW SCUPPER - TILT WALL

3" = 1'-0"



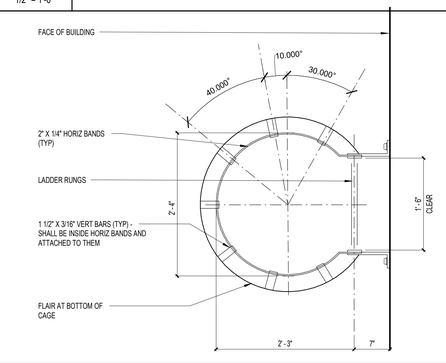
FRONT ELEVATION



SIDE ELEVATION

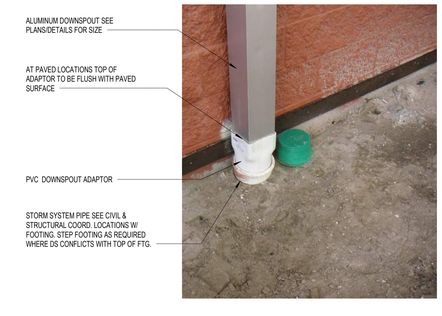
6 CAGED ROOF ACCESS LADDER

1/2" = 1'-0"



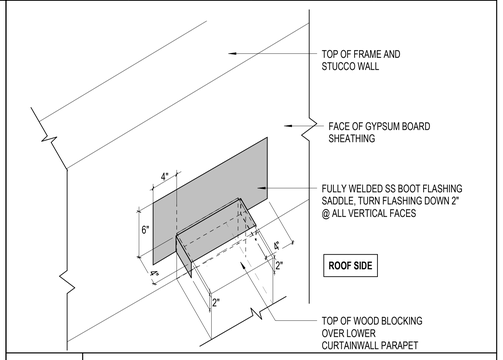
7 CAGE PLAN BELOW PLATFORM

1" = 1'-0"



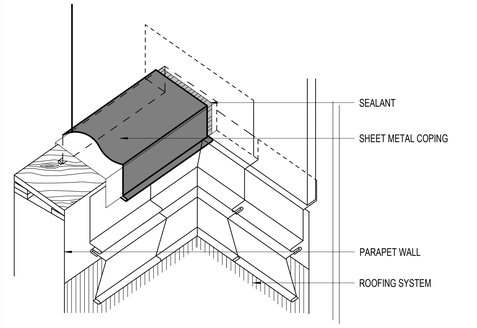
8 SQ. DOWNSPOUT CONNECTION

3/4" = 1'-0"



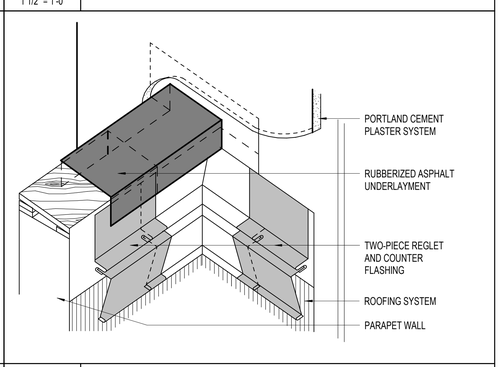
5 COPING AND BOOT FLASHING T-TRANSITION

1 1/2" = 1'-0"



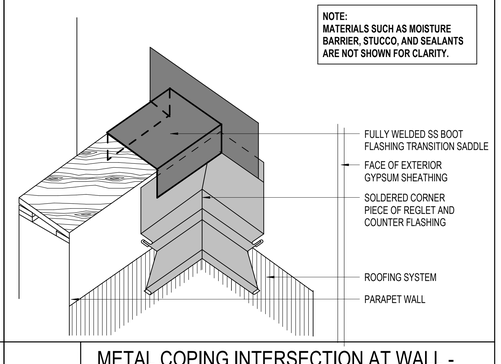
4 METAL COPING INTERSECTION AT WALL - STEP 3 (EWS-CPS)

1 1/2" = 1'-0"



2 METAL COPING INTERSECTION AT WALL - STEP 2 (EWS-CPS)

1 1/2" = 1'-0"



1 METAL COPING INTERSECTION AT WALL - STEP 1 (EWS-CPS)

1 1/2" = 1'-0"

VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

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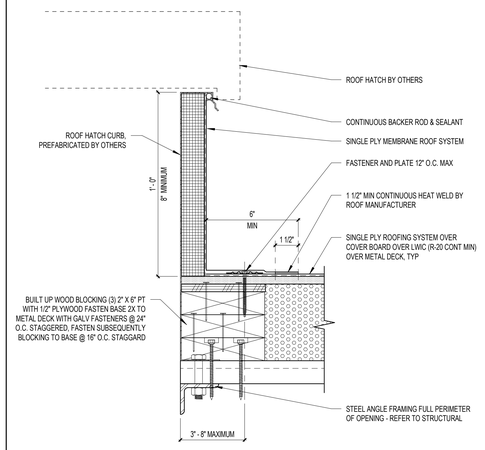
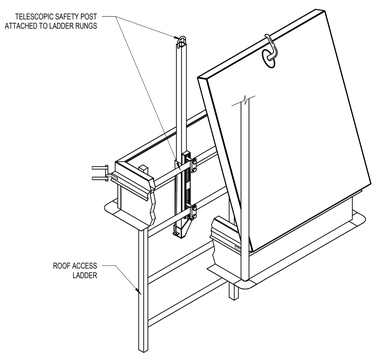


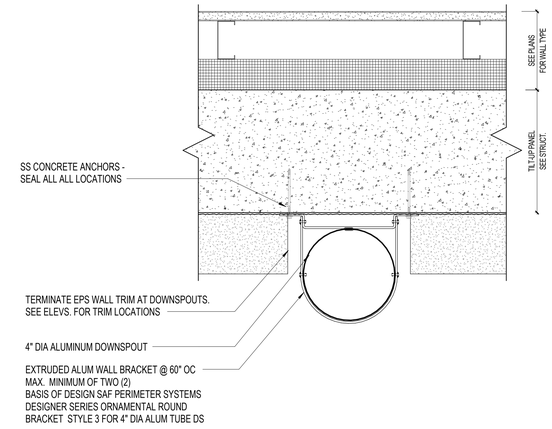
M5 — ROOF HATCH CURB ROOF DETAIL

3" = 1'-0"



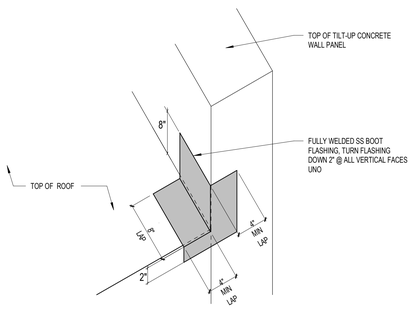
G9 — ROOF HATCH DETAIL

NOT TO SCALE

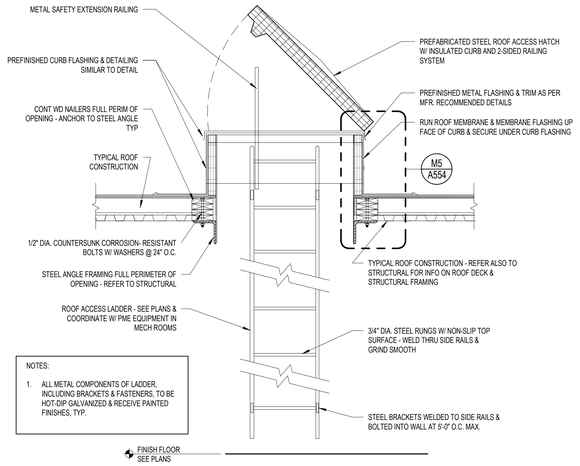


M14 — DOWNSPOUT BRACKET DETAIL

3" = 1'-0"



AXO OF BOOT FLASHING



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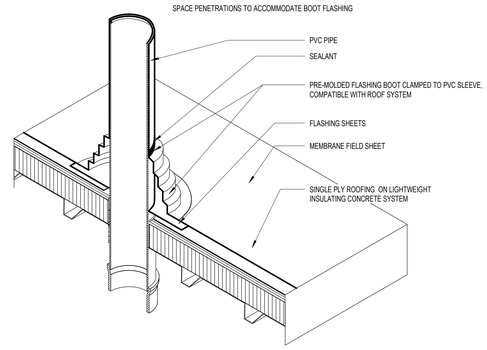
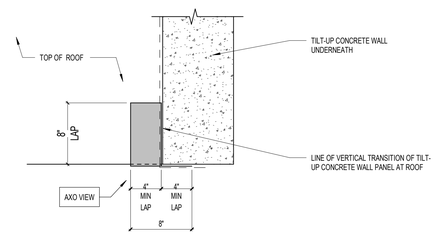
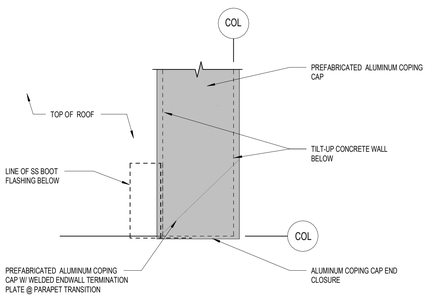


G14 — STACK VENT/ PIPE PENETRATION DETAIL

NOT TO SCALE



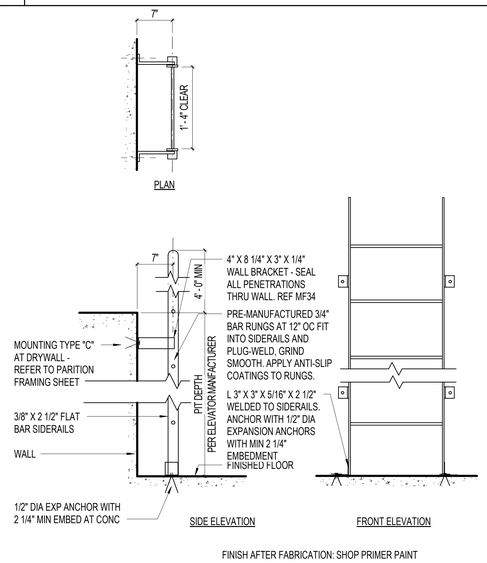
TOP VIEW @ BOOT FLASHING



TOP VIEW

A5 — ROOF DETAIL - CORNER FLASHING

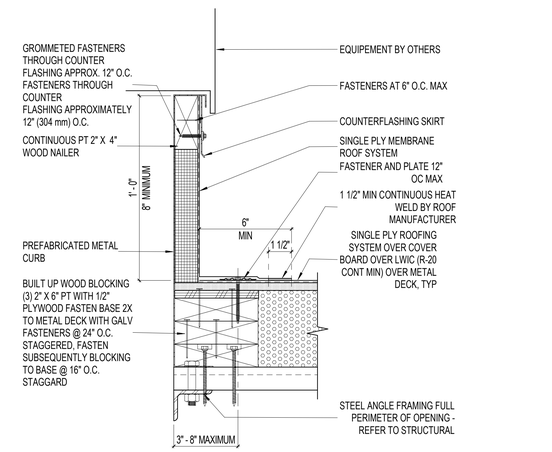
NOT TO SCALE



FINISH AFTER FABRICATION: SHOP PRIMER PAINT

A9 — INTERIOR ACCESS LADDER

NOT TO SCALE



A14 — EQUIPMENT CURB ROOF DETAIL

3" = 1'-0"

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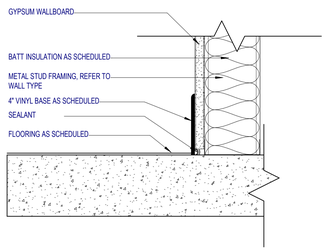
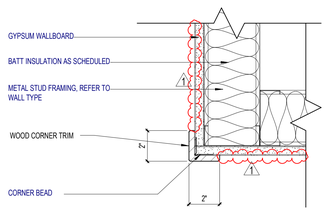


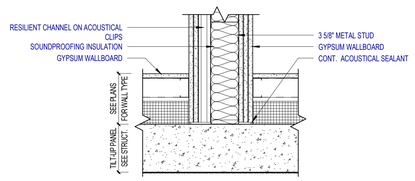
N1 VINYL BASE DETAIL

3" = 1'-0"



N5 WALL CORNER TRIM DETAIL@ LEGACY GALLERY AND GYM LOBBY, TYP.

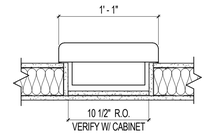
3" = 1'-0"



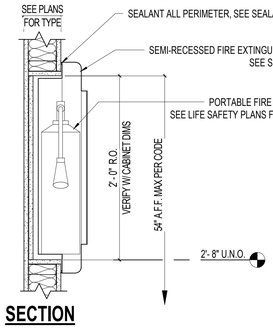
N9 ENLARGED PLAN DETAIL - ACOUSTICAL WALL

1 1/2" = 1'-0"

NOTE: ALL SEMI-RECESSED FIRE EXTINGUISHER CABINETS SHALL BE MINIMUM OF 1 HOUR RATED CONSTRUCTION



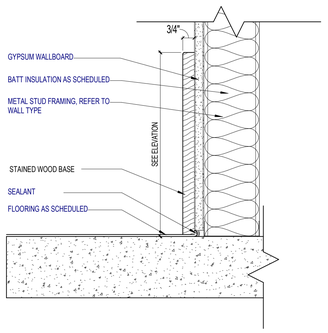
PLAN



SECTION

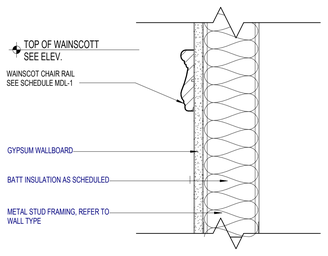
N13 SEMI RECESSED FIRE EXTINGUISHER CABINET DETAIL

1 1/2" = 1'-0"



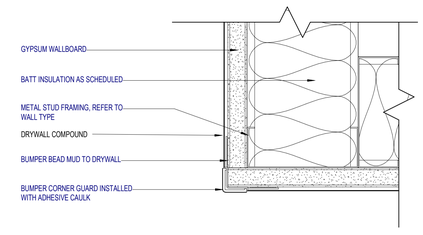
J1 WOOD BASE DETAIL

3" = 1'-0"



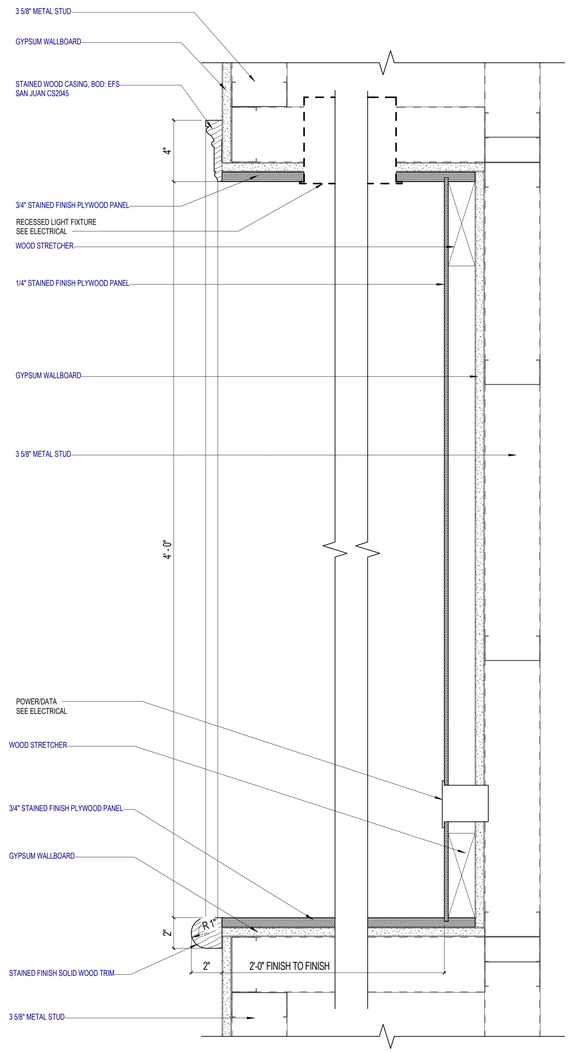
E5 WAINSCOT TYPE B - WALL COVER TOP DETAIL

3" = 1'-0"



E9 BUMPER CORNER GUARD DETAIL - TYPICAL

6" = 1'-0"



A13 NICHE SECTION

3" = 1'-0"

VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
VERO BEACH, FLORIDA 32963

SCHENKEL SHULTZ

834 N. Orange Avenue
Winter Park, FL 32789
voice 407-872-3322

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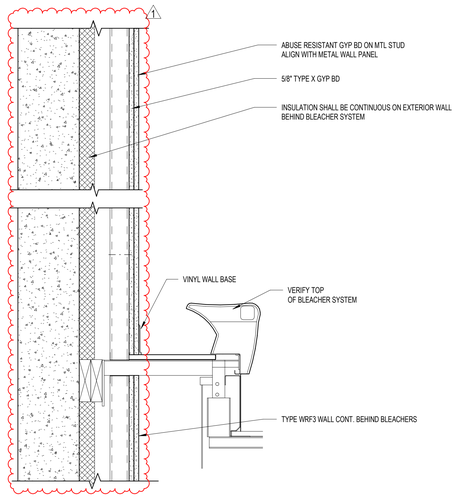
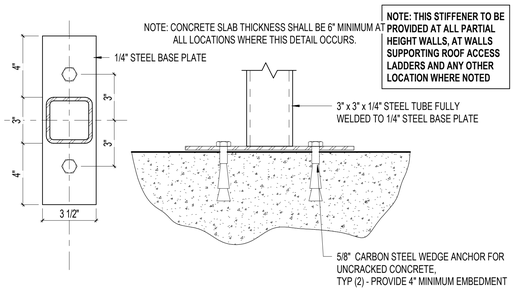
J1 — SANITIZED SAFETY GOGGLE CABINET WITH BRACKET DETAIL

1 1/2" = 1'-0"



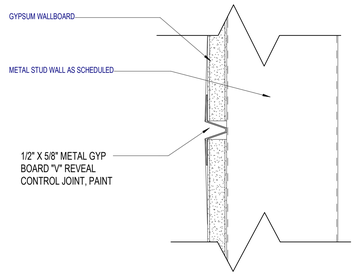
J5 — DETAIL AT GYM BLEACHERS

1 1/2" = 1'-0"



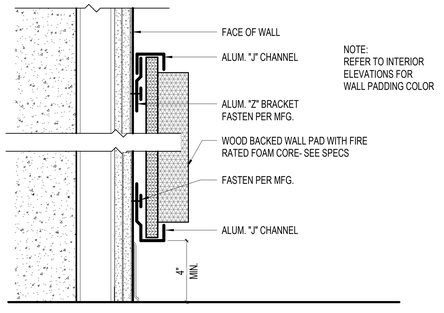
N9 — STEEL TUBE STIFFENER AT STUD WALLS

3" = 1'-0"



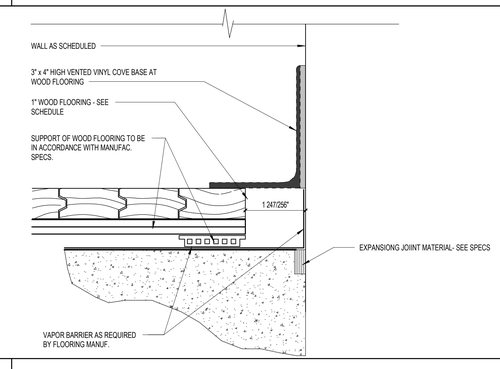
J9 — TYPICAL GYPSUM BOARD CONTROL JOINT

6" = 1'-0"



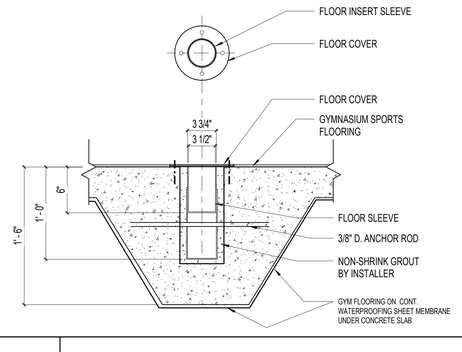
E5 — GYMNASIUM WALL PADDING DETAIL

3" = 1'-0"



E9 — BASE DETAIL AT GYM FLOOR VENTED VINYL COVE

6" = 1'-0"



A5 — VOLLEY BALL FLOOR INSERT @ GYM

1 1/2" = 1'-0"

A9

Vero Classical School
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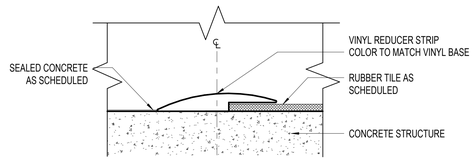
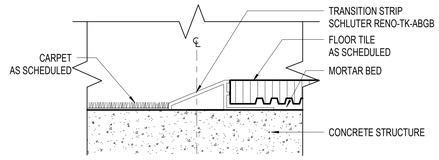


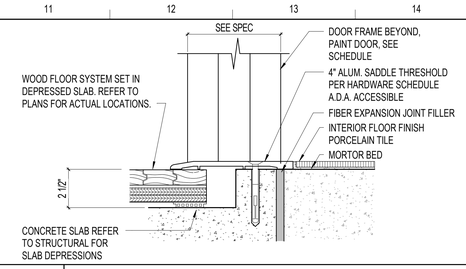
P1 TRANS. DETAIL - CPT TO RUBBER

12" = 1'-0"



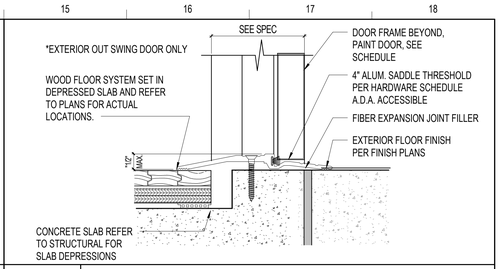
P7 TRANS. DETAIL - CPT TO PTF

12" = 1'-0"



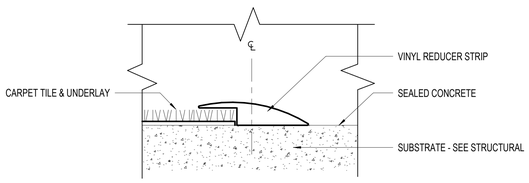
P11 INT. DOOR THRESHOLD @ GYM

3" = 1'-0"



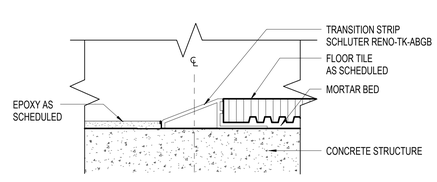
P15 EXT. DOOR THRESHOLD @ GYM

3" = 1'-0"



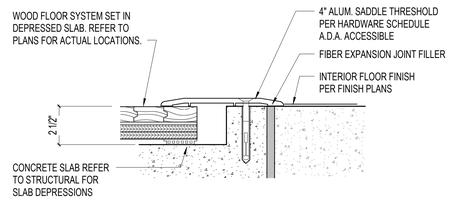
L1 TRANS. DETAIL - CPT TO SCS

12" = 1'-0"



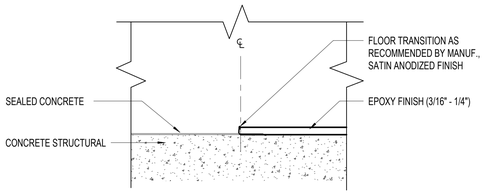
L7 TRANS. DETAIL - EPX TO PTF

12" = 1'-0"



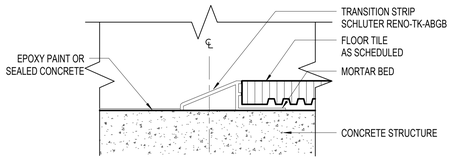
L11 TRANS. DETAIL - GYM WD - SCS

3" = 1'-0"



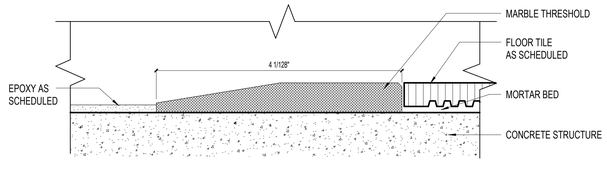
K1 TRANS. DETAIL - SCS TO EPOXY

12" = 1'-0"



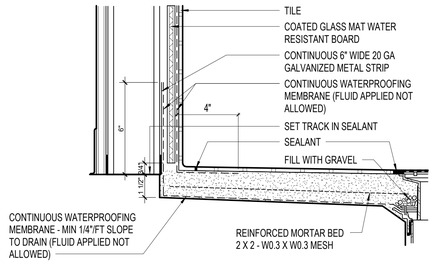
K7 TRANS. DETAIL - SCS TO PTF

12" = 1'-0"



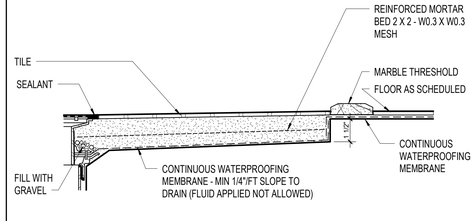
E1 TRANS. DETAIL - EPX TO PTF - ADA MARBLE THRESHOLD

12" = 1'-0"



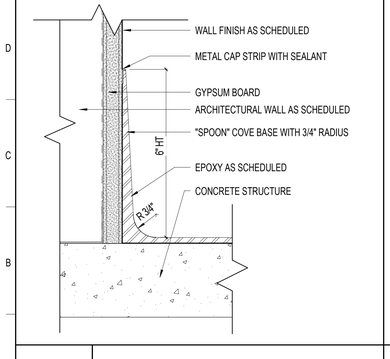
D7 SHOWER DETAIL @ FLOOR TO WALL

3" = 1'-0"



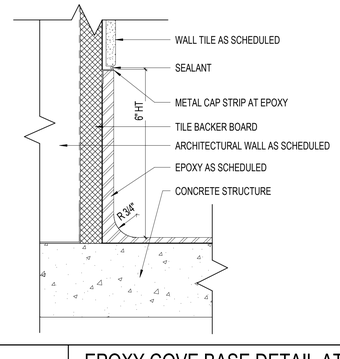
D11 SHOWER DETAIL @ ENTRY

3" = 1'-0"



A1 EPOXY COVE BASE DETAIL

6" = 1'-0"



A4 EPOXY COVE BASE DETAIL AT WALL TILE

6" = 1'-0"

GENERAL NOTES - FLOORING TRANSITIONS

1. WHERE FLOORING TRANSITION OCCURS AT A DOOR, THE CENTERLINE OF THE FLOORING TRANSITION SHALL BE AT THE CENTERLINE OF THE DOOR U.N.O.
2. FLOORING MATERIALS INDICATED IN THE DETAILS IS GENERIC IN NATURE. REFER TO THE FINISH MATERIALS LEGEND FOR ALL MATERIAL TYPES / MFG / COLORS / ETC.

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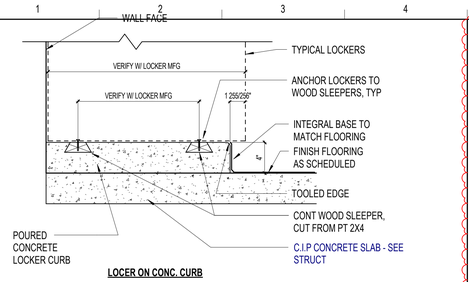
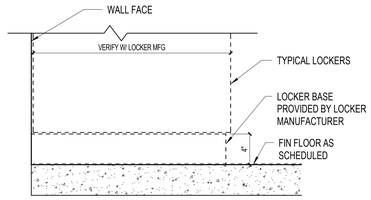


LOCER ON CONC. CURB

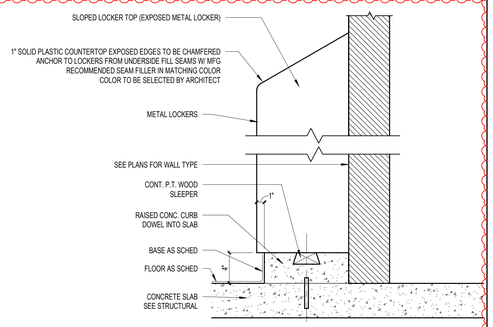
NOTE:
CONCRETE BASE ONLY AT GYM LOCKERS

N1 — TYP LOCKER BASE DETAIL @ CONC. CURB
1 1/2" = 1'-0"

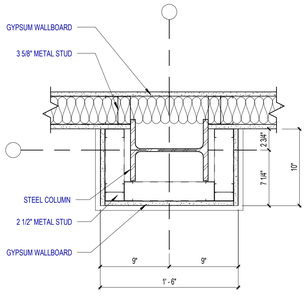


LOCKER ON SLAB

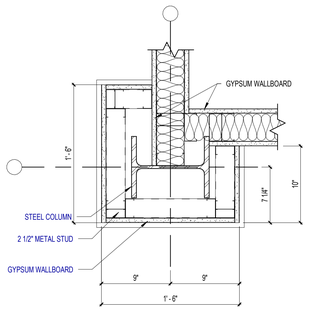
J1 — LOCKER BASE DETAIL @ LOCKER W/ BASE
1 1/2" = 1'-0"



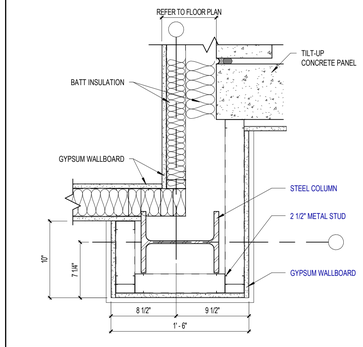
J5 — LOCKER DETAIL- GYM LOCKERS
1 1/2" = 1'-0"



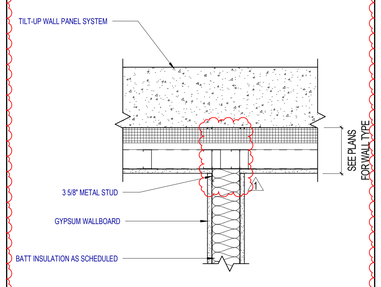
E1 — PLAN DETAIL AT CORRIDOR COLUMN
1 1/2" = 1'-0"



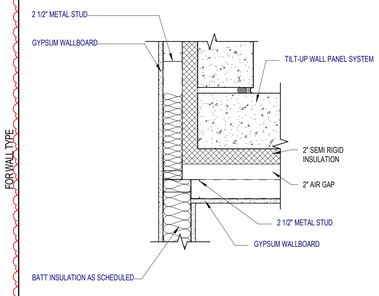
E4 — PLAN DETAIL AT CORRIDOR COLUMN
1 1/2" = 1'-0"



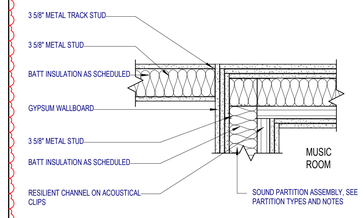
E7 — PLAN DETAIL AT CORRIDOR COLUMN
1 1/2" = 1'-0"



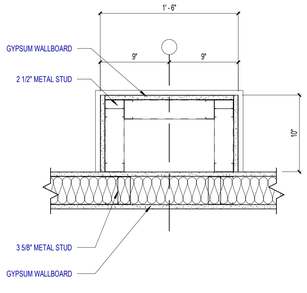
E10 — TYPICAL PLAN DETAIL AT TILT-UP PANELS
1 1/2" = 1'-0"



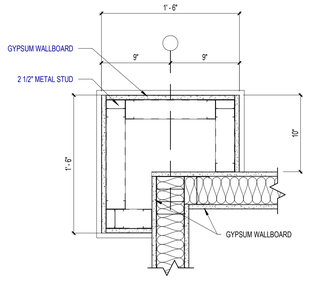
E13 — PLAN DETAIL
1 1/2" = 1'-0"



E16 — PLAN DETAIL
1 1/2" = 1'-0"



A1 — PLAN DETAIL AT CORRIDOR COLUMN
1 1/2" = 1'-0"



A4 — PLAN DETAIL AT CORRIDOR COLUMN
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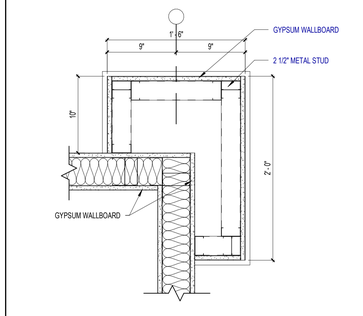
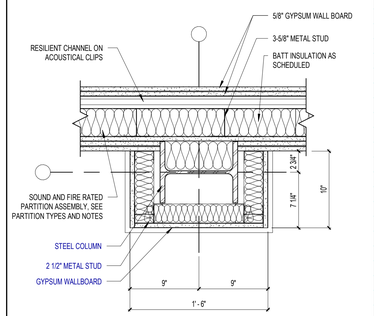
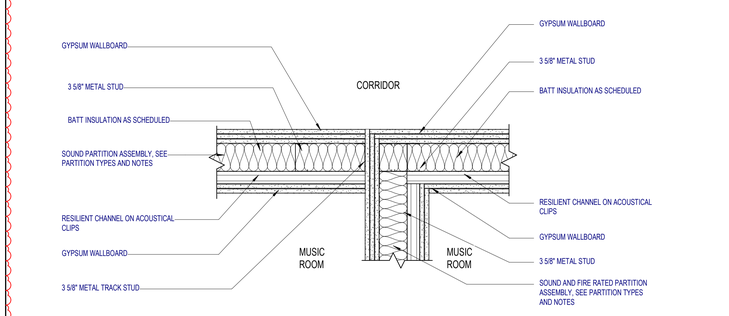


A7 — PLAN DETAIL AT CORRIDOR COLUMN
1 1/2" = 1'-0"



A10 — PLAN DETAIL AT CORRIDOR COLUMN
1 1/2" = 1'-0"



A13 — PLAN DETAIL
1 1/2" = 1'-0"

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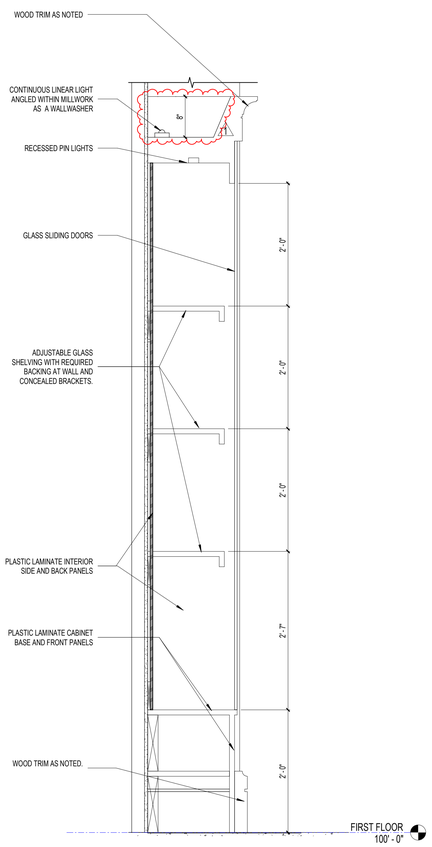
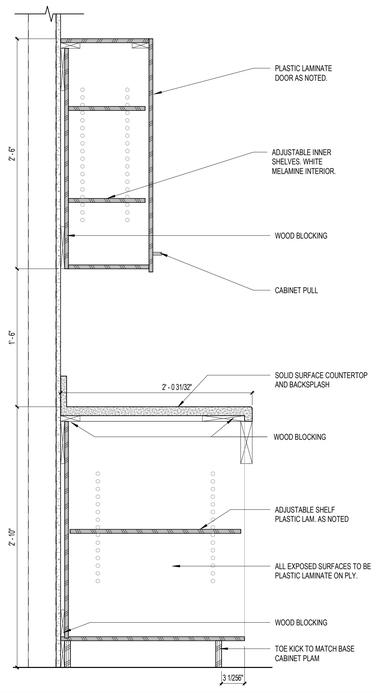


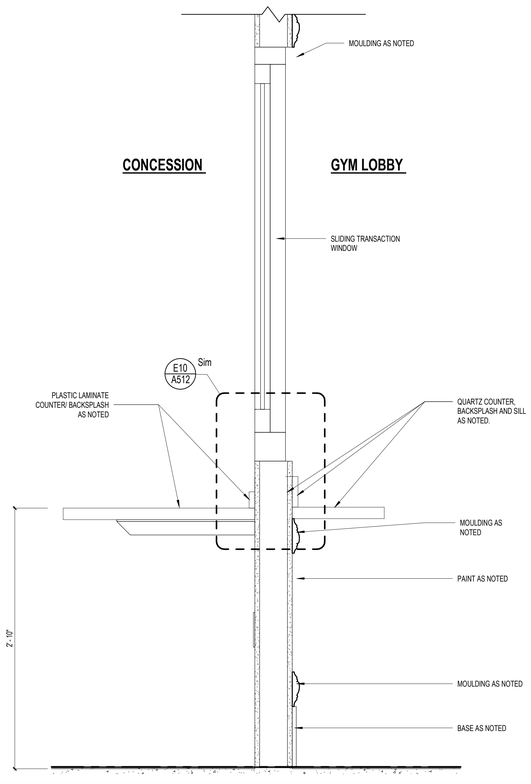
F1 GYM LOBBY-BUILT-IN TROPHY CASE

1" = 1'-0"



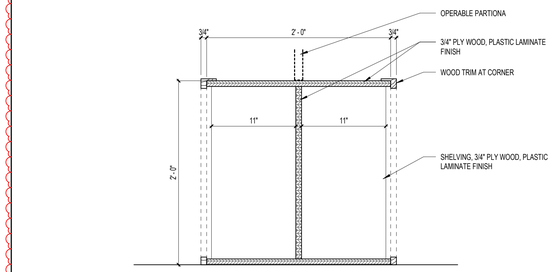
F5 CASEWORK SECTION - MAIL SLOTS

1 1/2" = 1'-0"



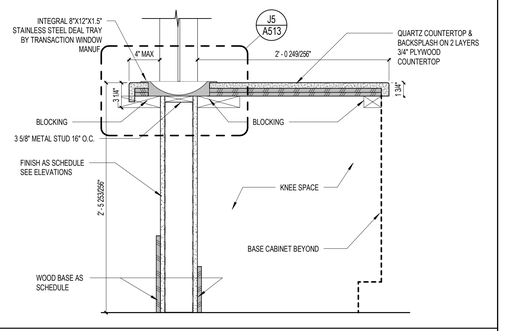
F9 CONCESSION COUNTER

1 1/2" = 1'-0"



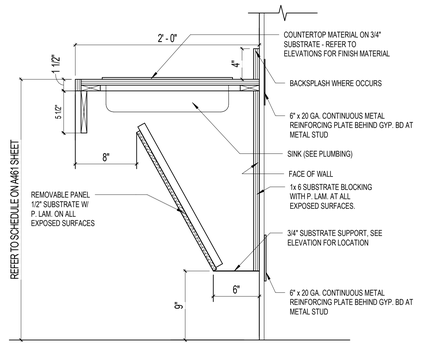
K14 BOOK CASE/ OPERABLE PARTITION RECEIVER

1 1/2" = 1'-0"



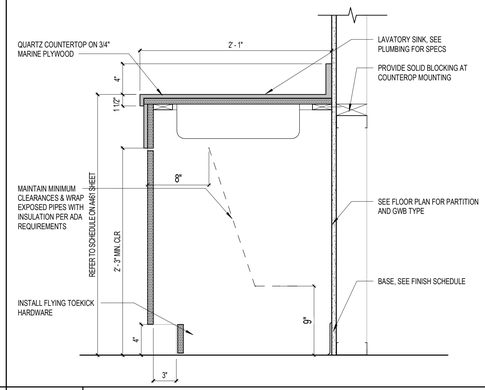
F14 RECEPTION DESK - TRANSACTION WINDOW

1 1/2" = 1'-0"



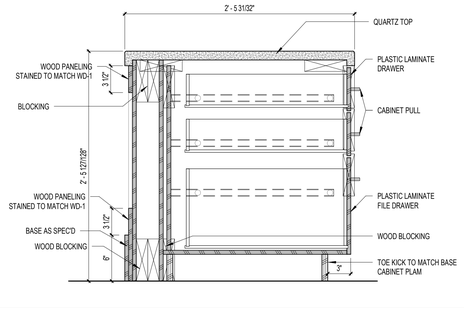
A1 ADA SINK APRON BASE DETAIL

1 1/2" = 1'-0"



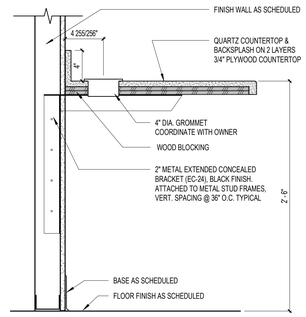
A5 ADA VANITY SINK - FLYING TOEKICK

1 1/2" = 1'-0"



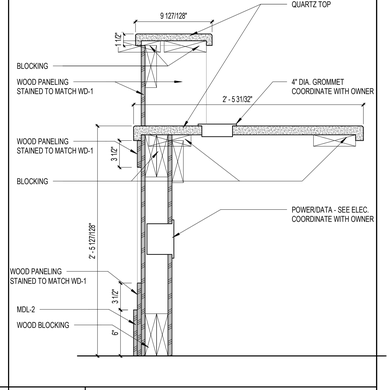
A9 RECEPTION DESK - BASE CAB AWI 101 & 102

1 1/2" = 1'-0"



A13 CONCEALED BRACKET TYP.

1 1/2" = 1'-0"



A16 RECEPTION DESK - OPEN BASE

1 1/2" = 1'-0"

VERO CLASSICAL SCHOOL

Vero Classical School
51 Old Dixie Hwy, Vero Beach, FL 32962

VERO CLASSICAL CHRISTIAN SCHOOL - PHASE I

PROJECT LOCATION: 1275 58TH AVE. SW
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ISSUE DATE: 12/23/2024
DRAWN BY: JL

MILLWORK & CASEWORK DETAILS

A571

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