PROJECT

NEW CONSTRUCTION FOR:

CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS - BUILDING A

19TH LANE, VERO BEACH, FLORIDA 32966

RELEASE

CONSTRUCTION DOCUMENTS

01

DRAWING INDEX & REVISION SCHEDULE

		DRAWING RELEASE DATE	CONSTRUCTION DOCS. 4.23.2023	ADDENDUM A 8.23.2023	ADDENDUM B 9.22.2023	BULLETIN NO. 01 06.16.2025
TITLE						
T001A	TITLE SHEET - BUILDING A	X	X	X	X	
CIVIL						
G-1	COVER SHEET	X				
G-2	GENERAL NOTES	X				
C-1	EXISTING CONDITIONS	X				
C-2	OVERALL SITE PLAN	X				
C-3	PAVING, DRAINAGE, & GRADING PLAN	X				
C-4A	PAVING, GRADING, AND DRAINAGE DETAILS	X				
C-4B	PAVING, GRADING, AND DRAINAGE DETAILS	X				
C-5	UTILITY PLAN	X				
C-6	UTILITY DETAILS - WATER & SEWER	X				
C-7	STORMWATER POLLUTION PREVENTION PLAN	X				
C-8	STORMWATER POLLUTION PREVENTION DETAILS	X				
GENERAL INFORMATION						
G001	GENERAL INFORMATION	X				
ARCHITECTURAL SITE PLAN						
AS01	ARCHITECTURAL SITE PLAN	X				
LIFE SAFETY						
LS01	LEVEL 100 LIFE SAFETY PLAN - BUILDING A	X		X		
LS02	LEVEL 200 LIFE SAFETY PLAN - BUILDING A	X		X		
LS01	LEVEL 300 LIFE SAFETY PLAN - BUILDING A	X		X		
ARCHITECTURAL						
A001	PARTITION TYPES	X				
A002	FIRE RESISTANCE TABLE & UL ASSEMBLIES	X				
A003	UL & HILTI ASSEMBLIES	X				
A004	UL & HILTI ASSEMBLIES	X				
A021	DOOR SCHEDULE, ELEVATIONS & DETAILS	X			X	
A022	DOOR & WINDOW DETAILS - BUILDING A	X				
A051	HALLWAY DOOR SYSTEM DETAILS	X				
A052	UNIT DIVIDING PARTITION ASSEMBLY DETAILS	X				
A101	LEVEL 100 FLOOR PLAN - BUILDING A	X			X	
A102	LEVEL 200 FLOOR PLAN - BUILDING A	X			X	
A103	LEVEL 300 FLOOR PLAN - BUILDING A	X			X	
A104	COVERED RV PARKING PLAN - BUILDING B					
A105	COVERED RV PARKING PLAN - BUILDING C					
A106	COVERED RV PARKING PLAN - BUILDING D					
A121	ENLARGED FLOOR PLAN - BUILDING A	X		X	X	
A151	ROOF PLAN - BUILDING A	X				
A155	ROOF DETAILS - BUILDING A	X	X		X	
A156	ROOF DETAILS - BUILDING A	X	X			
A201	EXTERIOR ELEVATIONS - BUILDING A	X	X			
A202	ENLARGED ELEVATIONS - BUILDING A & DUMPSTER ELEVATIONS	X				
A204	ELEVATIONS & SECTIONS - BUILDING B					
A205	ELEVATIONS & SECTIONS - BUILDING C					
A206	ELEVATIONS & SECTIONS - BUILDING D					
A221	EXTERIOR PERSPECTIVE VIEWS		X			
A251	BUILDING SECTIONS - BUILDING A	X				
A301	VERTICAL CIRCULATION PLANS - BUILDING A	X			X	

DRAWING INDEX & REVISION SCHEDULE

		DRAWING RELEASE DATE	CONSTRUCTION DOCS. 4.23.2023	ADDENDUM A 8.23.2023	ADDENDUM B 9.22.2023	BULLETIN NO. 01 06.16.2025
A302	VERTICAL CIRCULATION SECTIONS & DETAILS - BUILDING A		X			X
A501	WALL SECTIONS - BUILDING A		X			
A502	WALL SECTIONS - BUILDING A		X			
A503	WALL SECTIONS - BUILDING A		X			
A521	SECTION DETAILS - BUILDING A		X			
A541	TYPICAL EIFS DETAILS		X			
A542	TYPICAL EIFS DETAILS		X			
A543	TYPICAL STUCCO DETAILS		X			
A551	PLAN DETAILS - BUILDING A		X			
A552	PLAN DETAIL - BUILDING A		X			
STRUCTURAL						
S0.1A	GENERAL NOTES & SCHEDULES (BUILDING A)		X			
S1.1A	FOUNDATION PLAN (BUILDING A)		X			
S2.1A	SECOND FLOOR FRAMING PLAN (BUILDING A)		X			
S2.2A	THIRD FLOOR FRAMING PLAN (BUILDING A)		X			
S2.3A	ROOF FRAMING PLAN (BUILDING A)		X			
S3.1A	FOUNDATION DETAILS (BUILDING A)		X			
S4.1A	FRAMING DETAILS (BUILDING A)		X			
S4.2A	FRAMING DETAILS (BUILDING A)		X			
S4.3A	FRAMING DETAILS & SECTIONS (BUILDING A)		X			
S4.4A	FRAMING DETAILS & SECTIONS (BUILDING A)		X			
S4.5A	MASONRY DETAILS * SECTION (BUILDING A)		X			
S5.1A	SCHEDULE OF SPECIAL INSPECTIONS (BUILDING A)		X			
S0.1B	GENERAL NOTES, FOUNDATION PLAN, AND DETAILS (BUILDING B)					
S5.1B	SCHEDULE OF SPECIAL INSPECTIONS (BUILDING B)					
S0.1C	GENERAL NOTES, FOUNDATION PLAN, AND DETAILS (BUILDING C)					
S5.1C	SCHEDULE OF SPECIAL INSPECTIONS (BUILDING C)					
S0.1D	GENERAL NOTES, FOUNDATION PLAN, AND DETAILS (BUILDING D)					
S5.1D	SCHEDULE OF SPECIAL INSPECTIONS (BUILDING D)					
MECHANICAL						
M001	MECHANICAL NOTES & SCHEDULES		X			
M002	MECHANICAL DETAILS		X			
M101	MECHANICAL LEVEL 100 FLOOR PLAN - BUILDING A		X			
M102	MECHANICAL LEVEL 200 FLOOR PLAN - BUILDING A		X			
M103	MECHANICAL LEVEL 300 FLOOR PLAN - BUILDING A		X			
M104	MECHANICAL ROOF PLAN - BUILDING A		X			
PLUMBING						
P001	PLUMBING NOTES & SCHEDULES		X			
P002	PLUMBING DETAILS		X			
P101	PLUMBING LEVEL 100 FLOOR PLAN - BUILDING A		X			
P102	PLUMBING LEVEL 200 FLOOR PLAN - BUILDING A		X			
P103	PLUMBING LEVEL 300 FLOOR PLAN - BUILDING A		X			
P104	PLUMBING ROOF PLAN - BUILDING A		X			
ELECTRICAL						
E001	ELECTRICAL LEGEND, NOTES & DETAILS		X			
E002	ELECTRICAL RISER DIAGRAM		X			
E003	ELECTRICAL PANEL SCHEDULES		X			
E004	LIGHTING SCHEDULE AND ENERGY REPORT		X			
E100	SITE PLAN - ELECTRICAL		X			
E101	LEVEL 1 FLOOR PLAN - BUILDING A - ELECTRICAL		X			
E102	LEVEL 2 FLOOR PLAN - BUILDING A - ELECTRICAL		X			
E103	LEVEL 3 FLOOR PLAN - BUILDING A - ELECTRICAL		X			
E104	ROOF PLAN - BUILDING A - ELECTRICAL		X			

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E201	LEVEL 1 FLOOR PLAN - BUILDING A - LIGHTING		X			
E202	LEVEL 2 FLOOR PLAN - BUILDING A - LIGHTING		X			
E203	LEVEL 3 FLOOR PLAN - BUILDING A - LIGHTING		X			
BE001	ELECTRICAL LEGEND, NOTES & DETAILS					
BE002	ELECTRICAL RISER DIAGRAM					
BE100	SITE PLAN - ELECTRICAL					
BE201	FLOOR PLAN - BUILDING B - LIGHTING					
CE001	ELECTRICAL LEGEND, NOTES & DETAILS					
CE002	ELECTRICAL RISER DIAGRAM					
CE100	SITE PLAN - ELECTRICAL					
CE201	FLOOR PLAN - BUILDING C - LIGHTING					
DE001	ELECTRICAL LEGEND, NOTES & DETAILS					
DE002	ELECTRICAL RISER DIAGRAM					
DE100	SITE PLAN - ELECTRICAL					
DE201	FLOOR PLAN - BUILDING D - LIGHTING					



FLORIDA PRODUCT APPROVAL

NOTE: IF CONTRACTOR USES ALTERNATE MATERIALS OTHER THEN MATERIALS INDICATED BELOW, THEY SHALL NOTIFY THE OWNER AND SUBMIT THE NOTICE OF ACCEPTANCE (NOA) OR THE FLORIDA PRODUCT APPROVAL NUMBER FOR THE PROPOSED PRODUCT TO THE AHJ FOR APPROVAL PRIOR TO PURCHASING & INSTALLING.

- EIFS SYSTEMS
  DRYVIT OUTSULATION PLUS
  FL # 3423.3-R10
- HOLLOW METAL FLUSH SINGLE DOOR
  CECO FLUSH SINGLE DOORS
  FL # 16355.2
- ALUMINUM STOREFRONT SYSTEM
  YKK AP AMERICA INC. - YHS 50 FI
  FL # 14218-R12
- ALUMINUM AUTOMATIC SLIDING DOOR
  STANLEY ACCESS TECHNOLOGIES - DURA STORM
  FL # 23979.1
- SINGLE PLY ROOF SYSTEM
  FIRESTONE BUILDING PRODUCTS NO., LLC-ULTRAPLY TPO
  FL # 15894-R19
- ROOFING INSULATION
  ATLAS ROOFING INSULATION AND SHEATHING
  NOA NO. 23-0207.02
- SNAP LOCK STANDING SEAM PANEL
  MCBI, PART OF THE COERNERSTON BUILDING BRANDS FAMILY, ULTRADEK PANEL, MAX. 24" WIDE COVERAGE AND 3" HIGH RIBS.
  FL # 11819.9-R5
- STEEL AND ALUMINUM ROOF HATCH
  S/HZ DOOR ASSY
  NOA NO. 20-1104.24

NOTES

CONTRACT DOCUMENTS

1) THE PLANS ARE COMPLIMENTARY; THEREFORE, THE CONTRACTOR SHALL SEE ALL DISCIPLINE PLANS; AND WHAT IS REQUIRED BY ANY ONE SHALL BE BINDING AS IF REQUIRED BY ALL. THE INTENTION OF THE DOCUMENTS IS TO INCLUDE ALL LABOR, MATERIALS, EQUIPMENT AND OTHER ITEMS NECESSARY FOR THE PROPER EXECUTION OF THIS PROJECT.
2) THE WRITTEN SPECIFICATIONS, ANY ADDENDA AND / OR BULLETINS FOR THIS PROJECT COMPLIMENTS THE DRAWINGS, AND IS HEREBY MADE A PART THESE PLANS AND SHALL BE SPECIFICATIONS FOR ALL MATERIALS USED ON THIS PROJECT.
3) ALL DRAWINGS AND DETAILS INCORPORATING EXISTING CONDITIONS ARE REPRESENTATIVE OF EXISTING CONDITIONS ONLY. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF ALL DETAILS WITH ACTUAL CONDITIONS AND COORDINATE WITH THE ARCHITECT ANY DEVIATIONS OF THE DETAILS TO EXECUTE THE INTENT OF THESE DETAILS.
4) THE ARCHITECT'S APPROVAL OF SHOP DRAWINGS OR SAMPLES SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ANY DEVIATION FROM THE CONTRACT DOCUMENTS, NOR SHALL THE ARCHITECTS APPROVAL RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN THE SHOP DRAWINGS OR SAMPLES.

GENERAL NOTES

1) THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL WORK CONCERNING PROVISIONS FOR AND INSTALLATION OF EQUIPMENT NOTED NIC (NOT IN CONTRACT).
2) ARCHITECT SHALL BE NOTIFIED IMMEDIATELY UPON THE DISCOVERY OF ANY POSSIBLE HISTORIC OR ANTHROPOLOGIC FINDS DURING CONSTRUCTION.
3) OWNER AND ARCHITECT SHALL BE NOTIFIED IMMEDIATELY UPON THE DISCOVERY OF ANY POSSIBLE ASBESTOS OR HAZARDOUS FINDS DURING CONSTRUCTION. WORK IN THE SUSPECTED AREA SHALL STOP IMMEDIATELY UNTIL THE PROPER INVESTIGATION AND ABATEMENT MEASURES ARE TAKEN.

DIMENSIONS

1) ALL INTERIOR DIMENSIONS SHOWN ON FLOOR PLANS FOR METAL STUD PARTITIONS ARE TO THE FACE OF FRAMING MEMBER, (UNLESS CENTER LINE IS SHOWN), OR TO THE CENTERLINE OF ANY COLUMN GRID SHOWN.
2) CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND JOB CONDITIONS AT THE SITE, REPORTING ALL DISCREPANCIES BETWEEN THE JOB AND DRAWINGS TO THE ARCHITECT.
3) ALL EXTERIOR DIMENSIONS SHOWN ON FLOOR PLANS ARE TO THE FACE OF EXTERIOR WALLS OR TO THE CENTERLINE OF ANY COLUMN GRID SHOWN.
4) DO NOT SCALE DRAWINGS, ALL DRAWINGS ARE CAD GENERATED AND HAVE THE ABILITY TO BE PRINTED AT VARIOUS SCALES; IF DIMENSIONS ARE NOT INDICATED ON THE DRAWINGS NOTIFY THE ARCHITECT AND DIMENSIONS WILL BE PROVIDED.

OWNER

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CODE JURISDICTION:
CITY: VERO BEACH
COUNTY: INDIAN RIVER COUNTY
STATE: FLORIDA
COUNTRY: UNITED STATES OF AMERICA

CURRENT MANDATORY CODES:
https://floridabuilding.org/c/default.aspx

2020 FLORIDA BUILDING CODE - BUILDING 7TH EDITION WITH AMENDMENTS
2018 FLORIDA PREVENTION CODE - 7TH EDITION
2020 FLORIDA BUILDING CODE - PLUMBING 7TH EDITION WITH AMENDMENTS
2020 FLORIDA BUILDING CODE - MECHANICAL 7TH EDITION WITH AMENDMENTS
2020 FLORIDA BUILDING CODE - FUEL GAS 7TH EDITION WITH AMENDMENTS
2020 FLORIDA PREVENTION CODE, 7TH EDITION
2020 FLORIDA BUILDING CODE - ENERGY CONSERVATION 7TH EDITION WITH AMENDMENTS
STANDARDS FOR THE INSTALLATION OF SPRINKLER SYSTEMS 2016 OF FLORIDA WITHOUT AMENDMENTS
NATIONAL ELECTRICAL CODE 2017 FOR FLORIDA WITHOUT AMENDMENTS
2020 FLORIDA BUILDING CODE - ACCESSIBILITY 7TH EDITION
2010 ADA STANDARDS

USE: SELF-STORAGE

OCCUPANCY:
PER FBC CHAPTER 3 - ORDINARY HAZZARD STORAGE S1
PER FPC-LSC CHAPTER 6 - STORAGE.

CONSTRUCTION TYPE:
PER FBC - TYPE IIB
PER NFPA 220 - TYPE II (000)

FIRE SPRINKLERING: EQUIPPED WITH NFPA 13 SPRINKLER SYSTEM, REQUIRED BY FBC 903.2.9 (1) AND (3)

ALLOWABLE BUILDING AREA (WITH AREA INCREASES):
PER FLOOR
SINGLE STORY MAX AREA 83,125 SF
MULTI-STORY MAX AREA 249,375 SF (83,125 SF PER FLOOR)

MAXIMUM FLOOR AREA SHOWN 21,771 < 83,125 THEREFORE OK

TOTAL BUILDING:
3 (NUMBER OF STORIES ABOVE GRADE) X 83,125 (AREA PER FLOOR) = 249,375 SF

AREA SHOWN = 64,788 < 249,375 THEREFORE OK

ALLOWABLE BUILDING HEIGHT:

HEIGHT IN STORIES - THREE SHOWN = THREE MAX THEREFORE O.K

HEIGHT IN FEET - 35' ABOVE GRADE PLANE, BUILDING SHOWN 34' ABOVE AVERAGE GRADE PLANE<35' THEREFORE OK

CODE REQUIREMENT LEGEND

OCCUPANCY CLASSIFICATION:
S-1 STORAGE
TYPE OF CONSTRUCTION:
TYPE II-B
SPRINKLERED
SEISMIC DATA:
SITE CLASS DESIGN CATEGORY: D
SEISMIC USE GROUP: I
SEISMIC DESIGN CATEGORY C
ALLOWABLE AREA AND HEIGHT:
MAXIMUM FLOOR AREA: 83,125
MAXIMUM AREA: 249,375 W/ AREA INCREASE (IBC SECTION 506.1)

TABLE 506.1 AREA INCREASE
Aa = [At + (NS x If)] x Sa
Aa = [70,000 + (17,500 x 0.75)] x 3
Aa = [70,000 + 13,125] x 3
Aa = 249,375

TABLE 506.3.3 FRONTAGE INCREASE
If = [F / P - 0.25] W / 30
If = [660.0/660.0 - 0.25] 30 / 30
If = 0.75

TABLE 506.3.2 MINIMUM FRONTAGE DISTANCE
W = (L1 X W1 + L2 X W2...)/F
W = (660 X 30)/660.0
W =30.0

MAXIMUM BUILDING HEIGHT: 35 FEET
MAXIMUM STORIES: 3

BUILDING DESCRIPTION:
BUILDING AREA:

LEVEL 100	21,771	SF
LEVEL 200	21,510	SF
LEVEL 300	21,507	SF
TOTAL	64,788	SF

BUILDING OCCUPANCY:

LEVEL 100	43	PERSONS
LEVEL 200	39	PERSONS
LEVEL 300	39	PERSONS
TOTAL	121	PERSONS

TOTAL BUILDING STORIES: 3
TOTAL BUILDING HEIGHT: 34'-0"

TABLE 601 FIRE RESISTANCE RATING REQUIREMENT FOR BUILDING ELEMENTS (HOURS):

BUILDING ELEMENT	TYPE II-B
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS EXTERIOR	0
BEARING WALLS INTERIOR	0
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0

713.4 SHAFT FIRE-RESISTANCE RATING:

1 HOUR RATED ASSEMBLY WHERE CONNECTING LESS THAN 4 STORIES

2 HOUR RATED ASSEMBLY WHERE CONNECTING 4 OR MORE STORIES OR IN NON-SPRINKLERED ELEVATOR SHAFTS & MACHINE ROOMS

TABLE A7.6 COMMON PATH, DEAD-END, AND TRAVEL DISTANCE LIMITS:

COMMON PATH LIMIT	DEAD-END LIMIT	TRAVEL DISTANCE LIMIT
100	100	400

TABLE 716.1 OPENING FIRE PROTECTION ASSEMBLIES:

TYPE OF ASSEMBLY	REQUIRED WALL ASSEMBLY RATING	MIN. FIRE DOOR & FIRE SHUTTER ASSEMBLY RATING
FIRE WALLS AND FIRE BARRIERS HAVING A REQUIRED FIRE-RESISTANCE RATING GREATER THAN 1 HOUR	4	3
	3	3 a
	2	1½
	1½	1½
	2	1½
SHAFT, EXIT ENCLOSURES AND EXIT PASSAGEWAY WALLS	2	1½
FIRE BARRIERS: ENCLOSURES FOR SHAFTS, EXIT ACCESS STAIRWAYS & RAMPS, INTERIOR EXIT STAIRWAYS & RAMPS AND EXIT PASSAGEWAYS	1	1
OTHER FIRE BARRIERS	1	¾
FIRE PARTITIONS: CORRIDOR WALLS	1	½ b
	0.5	½ b
OTHER FIRE PARTITIONS	1	¾
	0.5	½
EXTERIOR WALLS	3	1½
	2	1½
OTHER FIRE BARRIERS	1	¾
	1	½ b

a. TWO DOORS, EACH WITH A FIRE PROTECTION RATING OF 1 1/2 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. FOR TESTING REQUIREMENTS, SEE SECT. 716.3.4

PLUMBING COUNT (2018 IPC)

OCCUPANCY TYPE: S-1

MEN:	1 PER 100
WOMEN:	1 PER 100
LAVATORIES:	1 PER 100
WATER FOUNTAIN:	1 PER 1,000

REQUIRED FIXTURE COUNT:
- WATER CLOSETS
  •• 2 TOTAL
- LAVATORY
  •• 2 TOTAL
- URINALS
  •• N/A
- DRINKING FOUNTAINS
  •• 1

ACTUAL FIXTURE COUNT:
- WATER CLOSETS
  •• 3 TOTAL
- LAVATORY
  •• 3 TOTAL
- URINALS
  •• 0 TOTAL
- DRINKING FOUNTAINS
  •• 2 TOTAL

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NEW CONSTRUCTION FOR:
CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS
19TH LANE VERO BEACH, FLORIDA, 32966

DRAWINGS PUBLISHED

27 APRIL 2023	CONSTRUCTION DOCUMENTS
23 AUGUST, 2023	ADDENDUM A
22 SEPTEMBER, 2023	ADDENDUM B
17 JUNE, 2025	BULLETIN NO. 01

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CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS

PROJECT 23002
PHASE ----

SHEET TITLE
TITLE SHEET - BUILDING A

SHEET
T001A

SMITH BOLAND ARCHITECTS, LLC. ALL RIGHTS RESERVED

19TH LANE VERO BREACH - BUILDING A STORAGE UNIT MIX TABULATION SHEET

SF PER UNIT		25	37.5	50	56	75	75	94	100	112	125	150	175	200	225	250	275	300	350	
CONDITION STORAGE:																				
LEVEL 100	GROSS SF	5X5	5X7.5	5X10	7.5X7.5	7.5X10	5X15	7.5X12.5	10X10	7.5X15	10X12.5	10X15	10X17.5	10X20	10X22.5	10X25	10X27.5	10X30	10X35	TOTAL
UNITS		19	0	30	0	2	0	0	25	0	0	13	0	16	0	10	0	12	0	127 TOTAL UNITS
TOTAL SF	**21,771**	475	-	1,500	-	150	-	-	2,500	-	-	1,950	-	3,200	-	2,500	-	3,600	-	15,875.0 NET RENTABLE
LEVEL 200	GROSS SF	5X5	5X7.5	5X10	7.5X7.5	7.5X10	5X15	7.5X12.5	10X10	7.5X15	10X12.5	10X15	10X17.5	10X20	10X22.5	10X25	10X27.5	10X30	10X35	TOTAL
UNITS		30	0	48	0	25	0	0	51	0	0	39	0	0	0	0	0	0	0	193 TOTAL UNITS
TOTAL SF	**21,510**	750	-	2,400	-	1,875	-	-	5,100	-	-	5,850	-	-	-	-	-	-	-	15,975.0 NET RENTABLE
LEVEL 300	GROSS SF	5X5	5X7.5	5X10	7.5X7.5	7.5X10	5X15	7.5X12.5	10X10	7.5X15	10X12.5	10X15	10X17.5	10X20	10X22.5	10X25	10X27.5	10X30	10X35	TOTAL
UNITS		30	0	47	0	25	0	0	51	1	0	39	0	0	0	0	0	0	0	193 TOTAL UNITS
TOTAL SF	**21,507**	750	-	2,350	-	1,875	-	-	5,100	112	-	5,850	-	-	-	-	-	-	-	16,037.0 NET RENTABLE
TOTAL	GROSS SF	5X5	5X7.5	5X10	7.5X7.5	7.5X10	5X15	7.5X12.5	10X10	7.5X15	10X12.5	10X15	10X17.5	10X20	10X22.5	10X25	10X27.5	10X30	10X35	TOTAL
UNITS		79	0	125	0	52	0	0	127	1	0	91	0	16	0	10	0	12	0	**513**
TOTAL SF	**64,788**	1,975	-	6,250	-	3,900	-	-	12,700	112	-	13,650	-	3,200	-	2,500	-	3,600	-	**47,887.0**
% UNITS		15.4%	0.0%	24.4%	0.0%	10.1%	0.0%	0.0%	24.8%	0.2%	0.0%	17.7%	0.0%	3.1%	0.0%	1.9%	0.0%	2.3%	0.0%	100.0%
																				93.3 AVG SF/UNIT

ACCESSIBLE UNITS		5X5	5X7.5	5X10	7.5X7.5	7.5X10	7.5X10	7.5X12.5	10X10	7.5X15	10X12.5	10X15	10X17.5	10X20	10X22.5	10X25	10X27.5	10X30	10X35	TOTAL	
UP TO LEVEL 200 @	5%	5	0	5	0	0	0	0	2	0	0	1	0	1	0	1	0	1	0	16	5.0%
OVER LEVEL 200 @	2%	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2.1%
TOTAL		7	0	7	0	0	0	0	2	0	0	1	0	1	0	1	0	1	0	20	

NOTE: UNIT SIZES INDICATED ARE NOMINAL, AND SUBJECT TO VARIATION.

OFFICE / RETAIL: 950 SF — 73.9% EFFICIENCY

19TH LANE VERO BEACH - RV STRUCTURE B - STORAGE UNIT MIX TABULATION SHEET

SF PER UNIT		25	37.5	50	56	75	94	100	112	125	150	175	200	225	250	275	300	350	540	
UN-CONDITION STORAGE:																				
LEVEL 100	GROSS SF	5X5	5X7.5	5X10	7.5X7.5	7.5X10	7.5X12.5	10X10	7.5X15	10X12.5	10X15	10X17.5	10X20	10X22.5	10X25	10X27.5	10X30	10X35	12X45	TOTAL
UNITS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	**6** TOTAL UNITS
TOTAL SF	**3,240**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,240	**3,240.0** NET RENTABLE
% UNITS		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
																				540.0 AVG SF/UNIT

ACCESSIBLE UNITS		5X5	5X7.5	5X10	7.5X7.5	7.5X10	7.5X12.5	10X10	7.5X15	10X12.5	10X15	10X17.5	10X20	10X22.5	10X25	10X27.5	10X30	10X35	12X45	TOTAL	
UP TO LEVEL 200 @	5%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
TOTAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

NOTE: UNIT SIZES INDICATED ARE NOMINAL, AND SUBJECT TO VARIATION.

100.0% EFFICIENCY

19TH LANE VERO BEACH - RV STRUCTURE C - STORAGE UNIT MIX TABULATION SHEET

SF PER UNIT		25	37.5	50	56	75	94	100	112	125	150	175	200	225	250	275	300	350	540	
UN-CONDITION STORAGE:																				
LEVEL 100	GROSS SF	5X5	5X7.5	5X10	7.5X7.5	7.5X10	7.5X12.5	10X10	7.5X15	10X12.5	10X15	10X17.5	10X20	10X22.5	10X25	10X27.5	10X30	10X35	12X45	TOTAL
UNITS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	**12** TOTAL UNITS
TOTAL SF	**6,480**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,480	**6,480.0** NET RENTABLE
% UNITS		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
																				540.0 AVG SF/UNIT

ACCESSIBLE UNITS		5X5	5X7.5	5X10	7.5X7.5	7.5X10	7.5X12.5	10X10	7.5X15	10X12.5	10X15	10X17.5	10X20	10X22.5	10X25	10X27.5	10X30	10X35	12,45	TOTAL	
UP TO LEVEL 200 @	5%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
TOTAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

NOTE: UNIT SIZES INDICATED ARE NOMINAL, AND SUBJECT TO VARIATION.

100.0% EFFICIENCY

19TH LANE VERO BEACH - RV STRUCTURE D - STORAGE UNIT MIX TABULATION SHEET

SF PER UNIT		25	37.5	50	56	75	94	100	112	125	150	175	200	225	250	275	300	350	540	
UN-CONDITION STORAGE:																				
LEVEL 100	GROSS SF	5X5	5X7.5	5X10	7.5X7.5	7.5X10	7.5X12.5	10X10	7.5X15	10X12.5	10X15	10X17.5	10X20	10X22.5	10X25	10X27.5	10X30	10X35	12X45	TOTAL
UNITS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	**24** TOTAL UNITS
TOTAL SF	**12,960**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12,960	**12,960.0** NET RENTABLE
% UNITS		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
																				540.0 AVG SF/UNIT

ACCESSIBLE UNITS		5X5	5X7.5	5X10	7.5X7.5	7.5X10	7.5X12.5	10X10	7.5X15	10X12.5	10X15	10X17.5	10X20	10X22.5	10X25	10X27.5	10X30	10X35	12X45	TOTAL	
UP TO LEVEL 200 @	5%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%
TOTAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

NOTE: UNIT SIZES INDICATED ARE NOMINAL, AND SUBJECT TO VARIATION.

100.0% EFFICIENCY

A01 STORAGE UNIT MIX MATRIX
G001 NTS

ABBREVIATION LIST

AB	ANCHOR BOLT	MACH	MACHINE
ACOUST	ACOUSTICAL	MAS	MASONRY
ACT	ACOUSTICAL CEILING TILE	MATL	MATERIAL
ADJ	ADJUSTABLE	MAX	MAXIMUM
AFF	ABOVE FINISH FLOOR	MB	MARKER BOARD
AGG	AGGREGATE	MCJ	MASONRY CONTROL JOINT
ALT	ALTERNATE	MECH	MECHANICAL
ALUM	ALUMINUM	MED	MEDIUM
ANOD	ANODIZED	MEMB	MEMBRANE
APPLIC	APPLICABLE	MEZZ	MEZZANINE
APPROX	APPROXIMATE	MFR	MANUFACTURER
ARCH	ARCHITECTURAL	MH	MANHOLE
ASP	ASPHALT	MIN	MINIMUM
AUTO	AUTOMATIC	MIR	MIRROR
AUX	AUXILIARY	MISC	MISCELLANEOUS
		MO	MASONRY OPENING
BD	BOARD	MTD	MOUNTED
BIT	BITUMINOUS	MTL	METAL
BR	BORROWED LITE	MUL	MULLION
BLDG	BUILDING		
BLK	BLOCK	N	NORTH
BLK	BLOCKING	NI	NOT INCLUDED
BM	BEAM	NIC	NOT IN CONTRACT
BOT	BOTTOM	NO	NUMBER
BR	BRONZE	NOM	NOMINAL
BRDG	BRIDGING	NTS	NOT TO SCALE
BRG	BEARING		
BRK	BRICK	OA DUCT	OUTSIDE AIR DUCT
BS	BOTH SIDES	OC	ON CENTER
BTWN	BETWEEN	OD	OUTSIDE DIAMETER
BUR	BUILT-UP ROOF	OFF	OFFICE
		OH	OVER HEAD
CAB	CABINET	OPNG	OPENING
CC	CENTER TO CENTER	OPP	OPPOSITE
CEM	CEMENT	OZ	OUNCE
CG	CORNER GUARD		
CHAM	CHAMFER	PC	PRECAST
CI	CAST IRON	PERF	PERFORATED
CIP	CAST IN PLACE	PL	PROPERTY LINE
CJ	CONTROL JOINT	PLAM	PLASTIC LAMINATE
CLG	CEILING	PLAS	PLASTIC
CLK	CAULKING	PWD	PLYWOOD
CL	CENTER LINE	PR	PAIR
CLO	CLOSET	PROP	PROPERTY
CMU	CONCRETE MASONRY UNIT	PSF	POUNDS PER SQUARE FOOT
CO	CASED OPENING	PSI	POUNDS PER SQUARE INCH
COL	COLUMN	PT	PRESSURE TREATED
COMB	COMBINATION	PTD	PAPER TOWEL DISPENSER
COMP	COMPOSITION	PTD/R	PAPER TOWEL DISPENSER / RECEPTACLE
CONC	CONCRETE	PTN	PARTITION
CON	CONNECTION	PVC	POLYVINYL CHLORIDE
CONST	CONSTRUCTION	PVMT	PAVEMENT
CONT	CONTINUOUS		
CONTR	CONTRACTOR	QT	QUARRY TILE
COR	CORRIDOR		
CT	CERAMIC TILE	R	RISER
CTR	CENTER	RAD	RADIUS
CU	CONDENSER UNIT	RD	ROOF DRAIN
		REF	REFRIGERATOR
DA	DOUBLE ACTING	REG	REGISTER
DBL	DOUBLE	REINF	REINFORCEMENT
DCJ	DRYWALL CONTROL JOINT	REQD	REQUIRED
DEPT	DEPARTMENT	RESIL	RESILIENT
DF	DRINKING FOUNTAIN	RET	RETAINING
DIA	DIAMETER	REV	REVISION
DIAG	DIAGONAL	RF	ROOF(ING)
DIFF	DIFFUSER	RM	ROOM
DIM	DIMENSION	RO	ROUGH OPENING
DISP	DISPENSER	ROW	RIGHT OF WAY
DIV	DIVIDER / DIVISION	RTN	RETURN
DN	DOWN		
DS	DOWNSPOUT	S	SOUTH
DTL	DETAIL	SAN	SANITARY
DV	DRYER VENT	SC	SOLID CORE
DWG	DRAWING	SCHED	SOAP DISPENSER
		SEC	SECTION
E	EAST	SF	SQUARE FOOT
EA	EACH	SH	SHELF
EF	EXHAUST FAN	SHT	SHEET
EHD	ELECTRIC HAND DRYER	SIM	SIMILAR
EIFS	EXTERIOR INSULATION FINISH SYSTEM	SND	SANITARY NAPKIN DISPENSER
EJ	EXPANSION JOINT	SNR	SANITARY NAPKIN RECEPTACLE
EJC	EXPANSION JOINT COVER	SPEC	SPECIFICATION
EL	ELEVATION	SPL BLK	SPLASH BLOCK
ELEC	ELECTRICAL	SQ	SQUARE
ELEV	ELEVATOR	SS	STAINLESS STEEL
EMER	EMERGENCY	STA	STANDARD
ENCL	ENCLOSURE	STD	STANDARD
ENTR	ENTRANCE	STL	STEEL
EP	ELECTRIC PANEL	STOR	STORAGE
EQ	EQUAL	STRUCT	STRUCTURAL
EQPT	EQUIPMENT	SUSP	SUSPENSION / SUSPENDED
ES	EACH SIDE	SYN	SYNTHETIC
EW	EACH WAY	SYS	SYSTEM
EWC	ELECTRIC WATER COOLER		
EXIST	EXISTING	T	TREAD
EXP	EXPANSION	T/B	TOP AND BOTTOM
EXT	EXTERIOR	TOC	TOP OF CURB
		TELE	TELEPHONE
FA	FIRE ALARM	TEMP	TEMPERED
FD	FLOOR DRAIN	TER	TERRAZZO
FE	FIRE EXTINGUISHER	T&G	TONGUE AND GROOVE
FEB	FIRE EXTINGUISHER ON BRACKET	THK	THICK
FEC	FIRE EXTINGUISHER ON CABINET	TOM	TOP OF MASONRY
FHC	FIRE HOSE CABINET	TOP	TOP OF PAVEMENT
FI	X-RAY FILM ILLUMINATOR	TPL	TOP OF PLATE
FIN	FINISH	TS	TUBULAR STEEL
FIN FLR	FINISH FLOOR	TOS	TOP OF STEEL
FIN SLAB	FINISH SLAB	TV	TELEVISION
FLR	FLOOR	TOW	TOP OF WALL
FLASH	FLASHING	TYP	TYPICAL
FLUOR	FLUORESCENT		
FOC	FACE OF CONCRETE	UL	UNDERWRITERS LABORATORIES
FO STD	FACE OF STUD	UNF	UNFINISHED
FO STL	FACE OF STEEL	UNO	UNLESS NOTED OTHERWISE
FOW	FACE OF WALL	UR	URINAL
FR	FIRE RESISTIVE	UTIL	UTILITY
FS	FULL SIZE		
FT	FOOT / FEET	VF	VENTILATION FAN
FTG	FOOTING	VIF	VERIFY IN FIELD
FURN	FURNISH	VIN	VINYL
FURR	FURRING	VCT	VINYL COMPOSITION TILE
FUT	FUTURE	VERT	VERTICAL
		VEST	VESTIBULE
GA	GAUGE	VTR	VENT THRU ROOF
GALV	GALVANIZED	VWC	VINYL WALL COVERING
GB	GRAB BAR		
GEN	GENERAL	W	WEST
GI	GALVANIZED IRON	W/	WITH
GL	GLASS	WC	WATER CLOSET
GND	GROUND	WD	WOOD
GR	GRADE	WH	WATER HEATER
GYP BD	GYPSUM WALL BOARD	W/O	WITH OUT
		WP	WATERPROOF
H	HIGH	WR	WATER RESISTIVE
HB	HOSE BIB	WSCT	WAINSCOT
HC	HOLLOW CORE	WT	WEIGHT
HDW	HARDWARE	WWM	WELDED WIRE MESH
HDWD	HARDWOOD		
HM	HOLLOW METAL		
HORIZ	HORIZONTAL		
HR	HOUR		
HT	HEIGHT		
ID	INSIDE DIAMETER		
INFO	INFORMATION		
INSUL	INSULATION		
INT	INTERIOR		
INV	INVERT		
IP	IRON PIPE		
JAN	JANITOR		
JT	JOINT		
JST	JOIST		
JST BRG	JOIST BEARING		
JV	JOB VERIFY		
KO	KNOCK OUT		
KD	KNOCK DOWN		
L	LENGTH		
LAD	LADDER		
LAM	LAMINATE		
LAV	LAVATORY		
LB	POUND		
LKR	LOCKER		
LT	LIGHT		
LVL	LEVEL		
LVR	LOUVER		
LW	LIGHTWEIGHT		

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CONSULTANT

Shamrock Building Systems, Inc.

NEW CONSTRUCTION FOR:
CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS
19TH LANE VERO BEACH, FLORIDA, 32966

DRAWINGS PUBLISHED
27 APRIL 2023 CONSTRUCTION DOCUMENTS

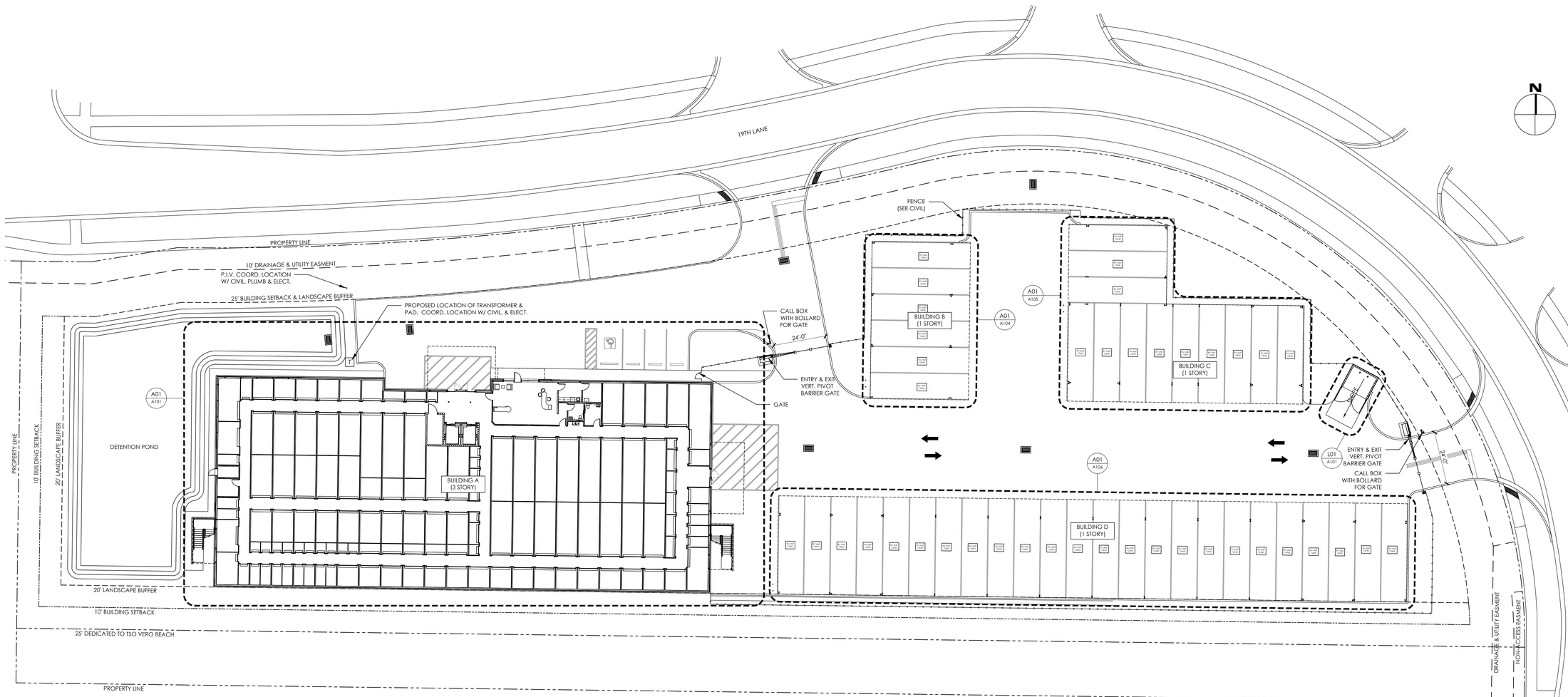
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CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS
PROJECT 23002
PHASE ----

SHEET TITLE
GENERAL INFORMATION

SHEET
G001

PLOTTED ON 04/26/2023



A01 ARCHITECTURAL SITE PLAN
A01 1" = 20'-0"

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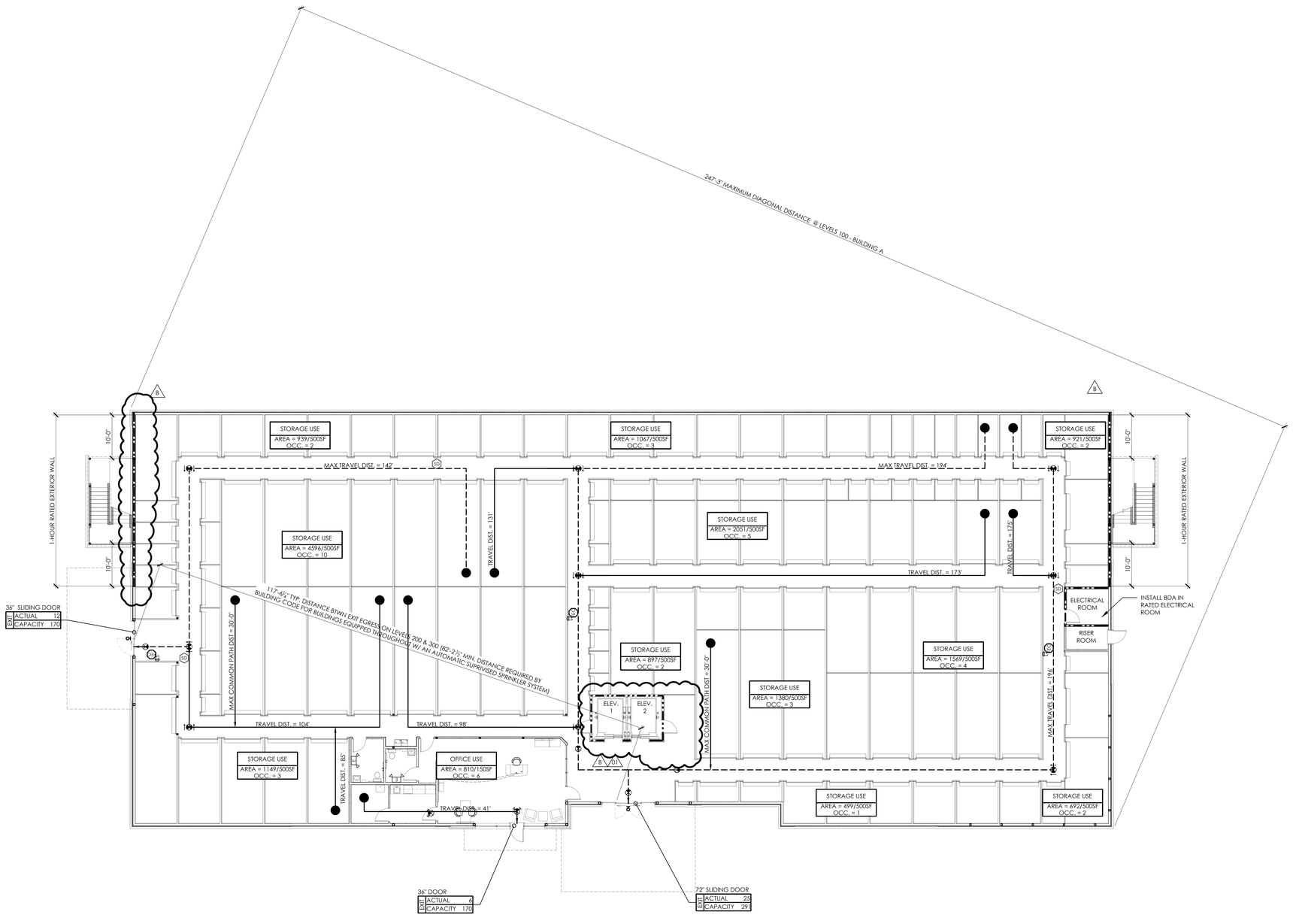
CUBE SMART 19TH LANE VERO
BEACH STORAGE BUILDINGS

PROJECT 23002
PHASE ----

SHEET TITLE
ARCHITECTURAL
SITE PLAN

SHEET
AS01

PLOTTED ON 7/24/2023



A01 LEVEL 100 LIFE SAFETY PLAN - BUILDING A
1/001 3/32" = 1'-0"

FIRE CODE ANALYSIS

- FLORIDA FIRE PREVENTION CODE 7TH EDITION 2018
- TYPE OF CONSTRUCTION : II-B / II (000)
- SQUARE FEET| 64,788 S.F.
- NUMBER OF STORIES: 3 STORIES
- FIRE SEPARATION OF OCCUPANCIES: N/A
- STAIRWELLS EXCLOSURES: EXTERIOR WITH 1-HOUR EXTERIOR RATED WALL 10' EXTENDED PAST STAIRS PER NFPA 101 7.2.2.5.2.1
- FEATURES OF FIRE PROTECTION:
  - •• 1 HOUR RATED EXTERIOR WALLS EXTENDING 10' PAST EXTERIOR EGRESS STAIRS.
  - •• 2-HOUR RATED WALLS AT ELEVATOR, ELEVATOR MACHINE ROOM & ELECTRICAL/BDA ROOM.
- NFPA 101 OCCUPANCY TYP: NFPA101: NEW STORAGE NFPA 101, CHAPTER 42
- MEANS OF EGRESS COMPONENTS: SEE SHEET A021 FOR DOOR SCHEDULE & TABLE 716.1 OPENING FIRE PROTECTION ASSEMBLIES ON THE CODE REQUIREMENT LEGEND LOCATED ON ALL LIFE SAFETY SHEETS.
- STAIRS, ENCLOSURES, PROTECTION STAIRS, HANDRAILS & GUARDRAILS: SEE SHEET A301 & A302
- OCCUPANT LOAD: 121 PP
- CAPACITY OF MEANS OF EGRESS: STAIRS 48"/.3 = 165 & LEVEL EGRESS 36"/.2=180 & 72"/.2=360
- NUMBER OF EGRESS: 2 EACH FLOOR REMOTELY LOCATED FROM EACH OTHER NFPA101:42.2.4.1
- ARRANGEMENT OF MEANS OF EGRESS: 248' (DIAGONAL DISTANCE), 82' BETWEEN EXITS (2ND & 3RD FLOOR 224' & 1ST FLOOR 119')
- TRAVEL DISTANCE TO EXIT:
  - •• LEVEL 100: 196' MAXIMUM TRAVEL DISTANCE LESS THAN REQUIRED 400' FOR SPRINKLERED BUILDING (NFPA 101, TABLE 42.2.6).
  - •• LEVELS 200-300: 187' MAXIMUM TRAVEL DISTANCE LESS THAN REQUIRED 400' FOR SPRINKLERED BUILDING (NFPA 101, TABLE 42.2.6 & A7.6.1)
- COMMON PATH: 30' MAX DISTANCE LESS THAN 100' FOR SPRINKLERED BUILDING (NFPA 101, TABLE 42.2.6)
- INTERIOR FINISHES: SEE SHEET A121
- ILLUMINATION OF MEANS OF EGRESS: SEE E201-E203 & LIFE SAFETY PLANS
- EMERGENCY LIGHTING: SEE SHEETS E201-E203
- MARKING OF MEANS OF EGRESS: SEE SHEETS E201-E203
- DETECTION, ALARM AND COMMUNICATIONS: SEPARATE PERMIT REQUIRED
- EXTINGUISHMENT REQUIREMENTS: SEPARATE PERMIT REQUIRED
- SMOKE DUCT DETECTORS: SEE SHEETS M101-M103
- FIRE DAMPERS: SEE SHEET M101
- IF STRUCTURE IS 12,000 S.F. OR MORE, PROVIDE A SURVEY FROM A LICENSED CONTRACTOR IN RADIO ENHANCEMENT FOR NFPA 1:11.10.1: PROVIDE ROOM "BDA"

LIFE SAFETY GENERAL NOTES:

1. REFERENCE SHEETS A001-A004 FOR WALL TYPE, WALL RATINGS & REQUIRED UL ASSEMBLIES FOR ALL RATED PARTITIONS INDICATED ON LIFE SAFETY PLANS PER THE LINE TYPES INDICATED ON THE LIFE SAFETY LEGEND.
2. REFERENCE DOOR SCHEDULE INCLUDED ON SHEET A021 FOR DOOR RATINGS & HARDWARE REQUIREMENTS. DOOR RATING SHALL ALSO COMPLY WITH RATINGS INDICATED ON THE LIFE SAFETY CODE LEGEND TABLE 716.1 OPENING FIRE PROTECTION ASSEMBLIES.
3. REFERENCE SHEET A301 & A302 FOR STAIR & ELEVATOR DETAILS & REQUIREMENTS.
4. COORDINATE WITH ELECTRICAL DRAWINGS FOR ALL EMERGENCY LIGHTING & ILLUMINATION OF MEANS OF EGRESS.

LIFE SAFETY PLAN LEGEND

- 4-HOUR RATED PARTITION
- 2-HOUR RATED PARTITION
- 1-HOUR RATED PARTITION
- 1-HOUR RATED SMOKE BARRIER
- SMOKE RATED PARTITION

(SEE A001-A003 FOR WALL PARTITION TYPE RATINGS & UL ASSEMBLIES.)

CAPACITY PER NFPA 7.3.3.1 & 12.2.3.2
STAIR = 0.3/PERSON
LEVEL = 0.20/PERSON

0.22/PERSON SHOWN:
36"W DOOR = 34" CLEAR = 155 CAPACITY
42"W DOOR = 40" CLEAR = 182 CAPACITY
48"W DOOR = 46" CLEAR = 209 CAPACITY
72"W DOOR = 68" CLEAR = 309 CAPACITY

OCCUPANCY PER NFPA 7.3.1.2

ASSEMBLY (CONCENTRATED USE)	=7 NSF/PERSON
ASSEMBLY (LESS CONCENTRATED USE)	=15 NSF/PERSON
KITCHENS	=100 NSF/PERSON
LIBRARY READING ROOMS	=50 NSF/PERSON
LIBRARY STACK AREA	=100 NSF/PERSON
STAGES	=15 NSF/PERSON
CLASSROOMS	=20 NSF/PERSON
BUSINESS USE	=150 NSF/PERSON
MERCANTILE (ON STREET LEVEL)	=30 NSF/PERSON
MERCANTILE (1 ABOVE STREET LEVEL)	=60 NSF/PERSON
STORAGE USE (OTHER THAN MERCANTILE)	= 500 NSF/PERSON

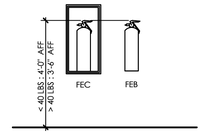
EQUIPMENT LEGEND
- FEC FIRE EXTINGUISHER & CABINET (LOCATION PER NFPA 10)
- FEB FIRE EXTINGUISHER & BRACKET (LOCATION PER NFPA 10)
- EXIT SIGNAGE (SHADING INDICATES FACE OF SIGN. ARROW SHOWN INDICATES DIRECTION TO EGRESS)
- MAGNETIC HOLD OPEN DEVICE
- FIRE ALARM PULL STATION
- FIRE ALARM HORN / STROBE LIGHT
- FIRE ALARM STROBE LIGHT (WALL MOUNTED)
- FIRE ALARM STROBE LIGHT (CEILING MOUNTED)
- FIRE ALARM SPEAKER
- SD SMOKE DETECTOR IN CEILING
- HD HEAT DETECTOR IN CEILING
- WALL MOUNTED EMERGENCY LIGHT

GRAPHICS LEGEND
- CLASSROOM / AREA = 620 SF / 20 OCC. = 31 — ROOM / SPACE NAME; ROOM / SPACE AREA & TOTAL OCCUPANCY
- EXIT ACTUAL 000 / CAPACITY 000 — ACTUAL & ALLOWABLE EGRESS CAPACITIES.
- TRAVEL PATH & DISTANCE (MAX 400 PER NFPA A7.6)
- PATH OF EGRESS WITHIN BUILDING
- (00) ACTUAL EGRESS COUNT

FIRE EXTINGUISHER MOUNTING

NOTE:
EVALUATE CONDITION OF EXISTING FIRE EXTINGUISHERS AND RECHARGE / REPLACE AS REQUIRED.

FIRE EXTINGUISHER SELECTIONS:
1. GENERAL PURPOSE - PROVIDE DRY CHEMICAL EXTINGUISHERS FOR CLASS "A, B AND C" FIRES WITH UNDERWRITERS LABATORY'S RATING OF 5 LB. 2A - 10BC. SEE SPECIFICATION 10 44 00 FOR ADDITIONAL INFORMATION.
2. KITCHENS - PROVIDE WET CHEMICAL EXTINGUISHERS FOR CLASS "K" FIRES WITH UNDERWRITERS LABORATORY RATING. SEE SPECIFICATION 10 44 00 FOR SIZE.



PROVIDE BLOCKING CONCEALED IN PARTITION. ALL WOOD BLOCKING USED IN (FIRE RATED) DRYWALL PARTITIONS SHALL BE FIRE RETARDANT TREATED.

CODE REQUIREMENT LEGEND

OCCUPANCY CLASSIFICATION:
S-1 STORAGE

TYPE OF CONSTRUCTION:
TYPE II-B
SPRINKLERED

SEISMIC DATA:

SITE CLASS DESIGN CATEGORY:	D
SEISMIC USE GROUP:	I
SEISMIC DESIGN CATEGORY	C

ALLOWABLE AREA AND HEIGHT:
MAXIMUM FLOOR AREA: 83,125
MAXIMUM AREA: 249,375 W/ AREA INCREASE (IBC SECTION 506.1)

TABLE 506.1 AREA INCREASE
Aa = [At + (NS x If)] x Sa
Aa = [70,000 + (17,500 x 0.75)] x 3
Aa = [70,000 + 13,125] x 3
Aa = 249,375

TABLE 506.3.3 FRONTAGE INCREASE
If = [F / P - 0.25] W / 30
If = [660.0/660.0 - 0.25] 30 / 30
If = 0.75

TABLE 506.3.2 MINIMUM FRONTAGE DISTANCE
W = (L1 X W1 + L2 X W2...)/F
W = (660 X 30)/660.0
W =30.0

MAXIMUM BUILDING HEIGHT: 35 FEET
MAXIMUM STORIES: 3

BUILDING DESCRIPTION:
BUILDING AREA:

LEVEL	100	21,771 SF
LEVEL	200	21,510 SF
LEVEL	300	21,507 SF
TOTAL		64,788 SF

BUILDING OCCUPANCY:

LEVEL	100	43 PERSONS
LEVEL	200	39 PERSONS
LEVEL	300	39 PERSONS
TOTAL		121 PERSONS

TOTAL BUILDING STORIES: 3
TOTAL BUILDING HEIGHT: 34'-0"

TABLE 601 FIRE RESISTANCE RATING REQUIREMENT FOR BUILDING ELEMENTS (HOURS):

BUILDING ELEMENT	TYPE II-B
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS EXTERIOR	0
BEARING WALLS INTERIOR	0
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0

713.4 SHAFT FIRE-RESISTANCE RATING:

1 HOUR RATED ASSEMBLY WHERE CONNECTING LESS THAN 4 STORIES

2 HOUR RATED ASSEMBLY WHERE CONNECTING 4 OR MORE STORIES OR IN NON-SPRINKLERED ELEVATOR SHAFTS & MACHINE ROOMS

TABLE A7.6 COMMON PATH, DEAD-END, AND TRAVEL DISTANCE LIMITS:

COMMON PATH LIMIT	DEAD-END LIMIT	TRAVEL DISTANCE LIMIT
100	100	400

TABLE 716.1 OPENING FIRE PROTECTION ASSEMBLIES:

TYPE OF ASSEMBLY	REQUIRED WALL ASSEMBLY RATING	MIN. FIRE DOOR & FIRE SHUTTER ASSEMBLY RATING
FIRE WALLS AND FIRE BARRIERS HAVING A REQUIRED FIRE-RESISTANCE RATING GREATER THAN 1 HOUR	4	3
	3	3 a
	2	1½
	1½	1½
	2	1½
SHAFT, EXIT ENCLOSURES AND EXIT PASSAGEWAY WALLS	2	1½
FIRE BARRIERS: ENCLOSURES FOR SHAFTS, EXIT ACCESS STAIRWAYS & RAMPS, INTERIOR EXIT STAIRWAYS & RAMPS AND EXIT PASSAGEWAYS	1	1
OTHER FIRE BARRIERS	1	¾
FIRE PARTITIONS: CORRIDOR WALLS	1	½ b
	0.5	½ b
OTHER FIRE PARTITIONS	1	¾
	0.5	½
EXTERIOR WALLS	3	1½
	2	1½
OTHER FIRE BARRIERS	1	¾
	1	½ b

a. TWO DOORS, EACH WITH A FIRE PROTECTION RATING OF 1 1/2 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. FOR TESTING REQUIREMENTS, SEE SECT. 716.3.4

PLUMBING COUNT (2018 IPC)

OCCUPANCY TYPE: S-1

MEN:	1 PER 100
WOMEN:	1 PER 100
LAVATORIES:	1 PER 100
WATER FOUNTAIN:	1 PER 1,000

REQUIRED FIXTURE COUNT:	ACTUAL FIXTURE COUNT:
• WATER CLOSETS	• WATER CLOSETS
•• 2 TOTAL	•• 3 TOTAL
• LAVATORY	• LAVATORY
•• 2 TOTAL	•• 3 TOTAL
• URINALS	• URINALS
•• N/A	•• 0 TOTAL
• DRINKING FOUNTAINS	• DRINKING FOUNTAINS
•• 1	•• 2 TOTAL

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Shamrock Building Systems, Inc.

NEW CONSTRUCTION FOR:
CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS
19TH LANE VERO BEACH, FLORIDA, 32966

DRAWINGS PUBLISHED
- 27 APRIL 2023 CONSTRUCTION DOCUMENTS
- 1 22 SEPTEMBER 2023 ADDENDUM 8
- 1 17 JUNE 2025 BULLETIN NO. 01

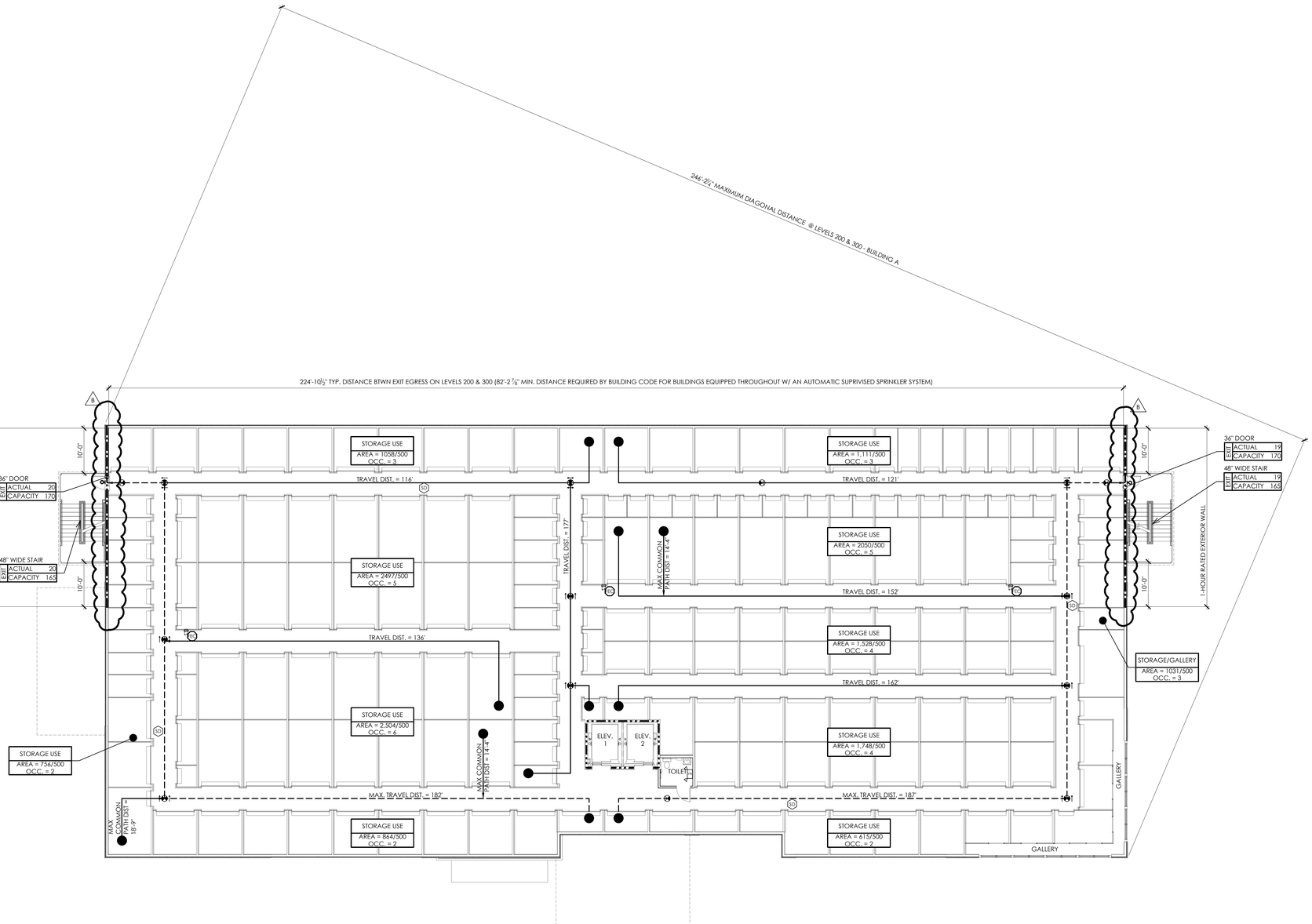
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CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS

PROJECT 23002
PHASE ----

SHEET TITLE
BUILDING A LIFE SAFETY PLAN - LEVEL 100

SHEET
LS01



A01 LEVEL 200 LIFE SAFETY PLAN - BUILDING A
1502 3/32" = 1'-0"

FIRE CODE ANALYSIS

- FLORIDA FIRE PREVENTION CODE 7TH EDITION 2018
- TYPE OF CONSTRUCTION : II-B / II (000)
- SQUARE FEET| 64,788 S.F.
- NUMBER OF STORIES: 3 STORIES
- FIRE SEPARATION OF OCCUPANCIES: N/A
- STAIRWELLS EXCLOSURES: EXTERIOR WITH 1-HOUR EXTERIOR RATED WALL 10' EXTENDED PAST STAIRS PER NFPA 101 7.2.2.5.2.1
- FEATURES OF FIRE PROTECTION:
  - 1 HOUR RATED EXTERIOR WALLS EXTENDING 10' PAST EXTERIOR EGRESS STAIRS.
  - 2-HOUR RATED WALLS AT ELEVATOR, ELEVATOR MACHINE ROOM & ELECTRICAL/BDA ROOM.
- NFPA 101 OCCUPANCY TYP: NFPA101: NEW STORAGE NFPA 101, CHAPTER 42
- MEANS OF EGRESS COMPONENTS: SEE SHEET A021 FOR DOOR SCHEDULE & TABLE 716.1 OPENING FIRE PROTECTION ASSEMBLIES ON THE CODE REQUIREMENT LEGEND LOCATED ON ALL LIFE SAFETY SHEETS.
- STAIRS, ENCLOSURES, PROTECTION STAIRS, HANDRAILS & GUARDRAILS: SEE SHEET A301 & A302
- OCCUPANT LOAD: 121 PP
- CAPACITY OF MEANS OF EGRESS: STAIRS 48",3 = 165 & LEVEL EGRESS 36',2=180 & 72",2=360
- NUMBER OF EGRESS: 2 EACH FLOOR REMOTELY LOCATED FROM EACH OTHER NFPA101:42.2.4.1
- ARRANGEMENT OF MEANS OF EGRESS: 248' (DIAGONAL DISTANCE), 82' BETWEEN EXITS (2ND & 3RD FLOOR 224' & 1ST FLOOR 119')
- TRAVEL DISTANCE TO EXIT:
  - LEVEL 100: 196' MAXIMUM TRAVEL DISTANCE LESS THAN REQUIRED 400' FOR SPRINKLERED BUILDING (NFPA 101, TABLE 42.2.6),
  - LEVELS 200-300: 187' MAXIMUM TRAVEL DISTANCE LESS THAN REQUIRED 400' FOR SPRINKLERED BUILDING (NFPA 101, TABLE 42.2.6 & A7.6.1)
- COMMON PATH: 30' MAX DISTANCE LESS THAN 100' FOR SPRINKLERED BUILDING (NFPA 101, TABLE 42.2.6)
- INTERIOR FINISHES: SEE SHEET A121
- ILLUMINATION OF MEANS OF EGRESS: SEE E201-E203 & LIFE SAFETY PLANS
- EMERGENCY LIGHTING: SEE SHEETS E201-E203
- MARKING OF MEANS OF EGRESS: SEE SHEETS E201-E203
- DETECTION, ALARM AND COMMUNICATIONS: SEPARATE PERMIT REQUIRED
- EXTINGUISHMENT REQUIREMENTS: SEPARATE PERMIT REQUIRED
- SMOKE DUCT DETECTORS: SEE SHEETS M101-M103
- FIRE DAMPERS: SEE SHEET M101
- IF STRUCTURE IS 12,000 S.F. OR MORE, PROVIDE A SURVEY FROM A LICENSED CONTRACTOR IN RADIO ENHANCEMENT FOR NFPA 1:11.10.1: PROVIDE ROOM "BDA"

LIFE SAFETY GENERAL NOTES:

1. REFERENCE SHEETS A001-A004 FOR WALL TYPE, WALL RATINGS & REQUIRED UL ASSEMBLIES FOR ALL RATED PARTITIONS INDICATED ON LIFE SAFETY PLANS PER THE LINE TYPES INDICATED ON THE LIFE SAFETY LEGEND.
2. REFERENCE DOOR SCHEDULE INCLUDED ON SHEET A021 FOR DOOR RATINGS & HARDWARE REQUIREMENTS. DOOR RATING SHALL ALSO COMPLY WITH RATINGS INDICATED ON THE LIFE SAFETY CODE LEGEND TABLE 716.1 OPENING FIRE PROTECTION ASSEMBLIES.
3. REFERENCE SHEET A301 & A302 FOR STAIR & ELEVATOR DETAILS & REQUIREMENTS.
4. COORDINATE WITH ELECTRICAL DRAWINGS FOR ALL EMERGENCY LIGHTING & ILLUMINATION OF MEANS OF EGRESS.

LIFE SAFETY PLAN LEGEND

- 4-HOUR RATED PARTITION
- 2-HOUR RATED PARTITION
- 1-HOUR RATED PARTITION
- 1-HOUR RATED SMOKE BARRIER
- SMOKE RATED PARTITION

(SEE A001-A003 FOR WALL PARTITION TYPE RATINGS & UL ASSEMBLIES.)

CAPACITY PER NFPA 7.3.3.1 & 12.2.3.2
STAIR = 0.3/PERSON
LEVEL = 0.20/PERSON

0.22/PERSON SHOWN:
36"W DOOR = 34" CLEAR = 155 CAPACITY
42"W DOOR = 40" CLEAR = 182 CAPACITY
48"W DOOR = 46" CLEAR = 209 CAPACITY
72"W DOOR = 68" CLEAR = 309 CAPACITY

OCCUPANCY PER NFPA 7.3.1.2

ASSEMBLY (CONCENTRATED USE)	=7 NSF/PERSON
ASSEMBLY (LESS CONCENTRATED USE)	=15 NSF/PERSON
KITCHENS	=100 NSF/PERSON
LIBRARY READING ROOMS	=50 NSF/PERSON
LIBRARY STACK AREA	=100 NSF/PERSON
STAGES	=15 NSF/PERSON
CLASSROOMS	=20 NSF/PERSON
BUSINESS USE	=150 NSF/PERSON
MERCANTILE (ON STREET LEVEL)	=30 NSF/PERSON
MERCANTILE (1 ABOVE STREET LEVEL)	=60 NSF/PERSON
STORAGE USE (OTHER THAN MERCANTILE)	= 500 NSF/PERSON

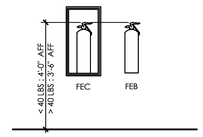
EQUIPMENT LEGEND
- FEC FIRE EXTINGUISHER & CABINET (LOCATION PER NFPA 10)
- FEB FIRE EXTINGUISHER & BRACKET (LOCATION PER NFPA 10)
- EXIT SIGNAGE (SHADING INDICATES FACE OF SIGN. ARROW SHOWN INDICATES DIRECTION TO EGRESS)
- MAGNETIC HOLD OPEN DEVICE
- FIRE ALARM PULL STATION
- FIRE ALARM HORN / STROBE LIGHT
- FIRE ALARM STROBE LIGHT (WALL MOUNTED)
- FIRE ALARM STROBE LIGHT (CEILING MOUNTED)
- FIRE ALARM SPEAKER
- SD SMOKE DETECTOR IN CEILING
- HD HEAT DETECTOR IN CEILING
- WALL MOUNTED EMERGENCY LIGHT

GRAPHICS LEGEND
- CLASSROOM / AREA = 620 SF / 20 OCC. = 31 — ROOM / SPACE NAME; ROOM / SPACE AREA & TOTAL OCCUPANCY
- EXIT ACTUAL 000 / CAPACITY 000 — ACTUAL & ALLOWABLE EGRESS CAPACITIES.
- TRAVEL PATH & DISTANCE (MAX 400 PER NFPA A7.6)
- PATH OF EGRESS WITHIN BUILDING
- (00) ACTUAL EGRESS COUNT

FIRE EXTINGUISHER MOUNTING

NOTE:
EVALUATE CONDITION OF EXISTING FIRE EXTINGUISHERS AND RECHARGE / REPLACE AS REQUIRED.

FIRE EXTINGUISHER SELECTIONS:
1. GENERAL PURPOSE - PROVIDE DRY CHEMICAL EXTINGUISHERS FOR CLASS "A, B AND C" FIRES WITH UNDERWRITERS LABATORY'S RATING OF 5 LB. 2A - 10BC. SEE SPECIFICATION 10 44 00 FOR ADDITIONAL INFORMATION.
2. KITCHENS - PROVIDE WET CHEMICAL EXTINGUISHERS FOR CLASS "K" FIRES WITH UNDERWRITERS LABORATORY RATING. SEE SPECIFICATION 10 44 00 FOR SIZE.



PROVIDE BLOCKING CONCEALED IN PARTITION, ALL WOOD BLOCKING USED IN (FIRE RATED) DRYWALL PARTITIONS SHALL BE FIRE RETARDANT TREATED.

CODE REQUIREMENT LEGEND

OCCUPANCY CLASSIFICATION:
S-1 STORAGE

TYPE OF CONSTRUCTION:
TYPE II-B
SPRINKLERED

SEISMIC DATA:
SITE CLASS DESIGN CATEGORY: D
SEISMIC USE GROUP: 1
SEISMIC DESIGN CATEGORY C

ALLOWABLE AREA AND HEIGHT:
MAXIMUM FLOOR AREA: 83,125
MAXIMUM AREA: 249,375 W/ AREA INCREASE (IBC SECTION 506.1)

TABLE 506.1 AREA INCREASE
Aa = [At + (NS x If)] x Sa
Aa = [70,000 + (17,500 x 0.75)] x 3
Aa = [70,000 + 13,125] x 3
Aa = 249,375

TABLE 506.3.3 FRONTAGE INCREASE
If = [F / P - 0.25] W / 30
If = [660.0/660.0 - 0.25] 30 / 30
If = 0.75

TABLE 506.3.2 MINIMUM FRONTAGE DISTANCE
W = (L1 X W1 + L2 X W2...)/F
W = (660 X 30)/660.0
W =30.0

MAXIMUM BUILDING HEIGHT: 35 FEET
MAXIMUM STORIES: 3

BUILDING DESCRIPTION:
BUILDING AREA:

LEVEL	100	21,771 SF
LEVEL	200	21,510 SF
LEVEL	300	21,507 SF
TOTAL		64,788 SF

BUILDING OCCUPANCY:

LEVEL	100	43 PERSONS
LEVEL	200	39 PERSONS
LEVEL	300	39 PERSONS
TOTAL		121 PERSONS

TOTAL BUILDING STORIES: 3
TOTAL BUILDING HEIGHT: 34'-0"

TABLE 601 FIRE RESISTANCE RATING REQUIREMENT FOR BUILDING ELEMENTS (HOURS):

BUILDING ELEMENT	TYPE II-B
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS EXTERIOR	0
BEARING WALLS INTERIOR	0
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0

713.4 SHAFT FIRE-RESISTANCE RATING:

1 HOUR RATED ASSEMBLY WHERE CONNECTING LESS THAN 4 STORIES

2 HOUR RATED ASSEMBLY WHERE CONNECTING 4 OR MORE STORIES OR IN NON-SPRINKLERED ELEVATOR SHAFTS & MACHINE ROOMS

TABLE A7.6 COMMON PATH, DEAD-END, AND TRAVEL DISTANCE LIMITS:

COMMON PATH LIMIT	DEAD-END LIMIT	TRAVEL DISTANCE LIMIT
100	100	400

TABLE 716.1 OPENING FIRE PROTECTION ASSEMBLIES:

TYPE OF ASSEMBLY	REQUIRED WALL ASSEMBLY RATING	MIN. FIRE DOOR & FIRE SHUTTER ASSEMBLY RATING
FIRE WALLS AND FIRE BARRIERS HAVING A REQUIRED FIRE-RESISTANCE RATING GREATER THAN 1 HOUR	4	3
	3	3 a
	2	1½
	1½	1½
	2	1½
SHAFT, EXIT ENCLOSURES AND EXIT PASSAGEWAY WALLS	2	1½
FIRE BARRIERS: ENCLOSURES FOR SHAFTS, EXIT ACCESS STAIRWAYS & RAMPS, INTERIOR EXIT STAIRWAYS & RAMPS AND EXIT PASSAGEWAYS	1	1
OTHER FIRE BARRIERS	1	¾
FIRE PARTITIONS: CORRIDOR WALLS	1	⅓ b
	0.5	⅓ b
OTHER FIRE PARTITIONS	1	¾
	0.5	⅓
EXTERIOR WALLS	3	1½
	2	1½
OTHER FIRE BARRIERS	1	¾
	1	⅓ b

a. TWO DOORS, EACH WITH A FIRE PROTECTION RATING OF 1 1/2 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. FOR TESTING REQUIREMENTS, SEE SECT. 716.3.4

PLUMBING COUNT (2018 IPC)

OCCUPANCY TYPE: S-1

MEN:	1 PER 100
WOMEN:	1 PER 100
LAVATORIES:	1 PER 100
WATER FOUNTAIN:	1 PER 1,000

REQUIRED FIXTURE COUNT:
- WATER CLOSETS
  - •• 2 TOTAL
- LAVATORY
  - •• 2 TOTAL
- URINALS
  - •• N/A
- DRINKING FOUNTAINS
  - •• 1

ACTUAL FIXTURE COUNT:
- WATER CLOSETS
  - •• 3 TOTAL
- LAVATORY
  - •• 3 TOTAL
- URINALS
  - •• 0 TOTAL
- DRINKING FOUNTAINS
  - •• 2 TOTAL

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NEW CONSTRUCTION FOR:
CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS
19TH LANE VERO BEACH, FLORIDA, 32966

DRAWINGS PUBLISHED
- 27 APRIL 2023 CONSTRUCTION DOCUMENTS
- 1 22 SEPTEMBER 2023 ADDENDUM 8

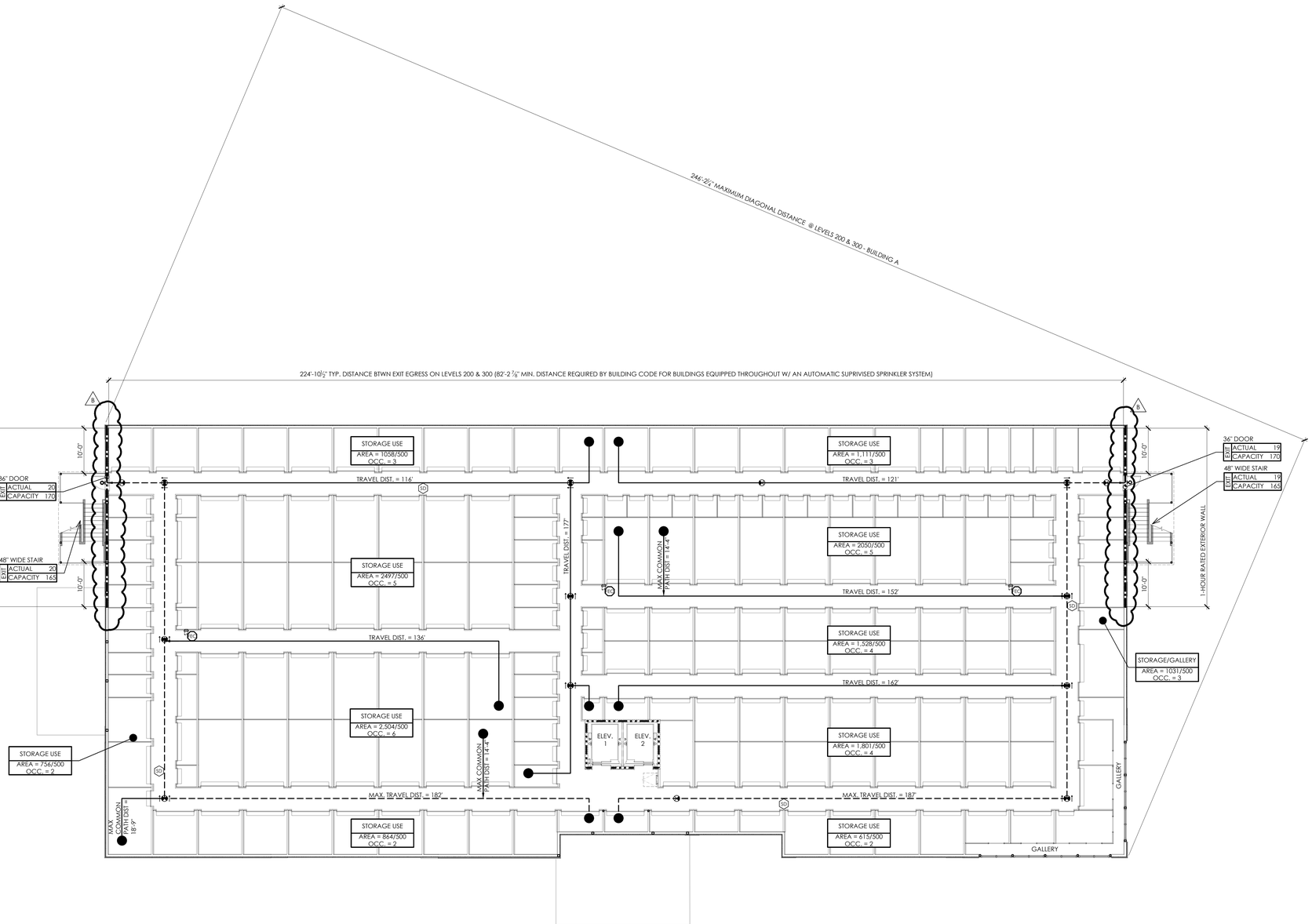
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CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS

PROJECT 23002
PHASE ----

SHEET TITLE
BUILDING A LIFE SAFETY PLAN - LEVEL 200

SHEET
LS02



A01 LEVEL 300 LIFE SAFETY PLAN - BUILDING A
LS03 3/32" = 1'-0"

FIRE CODE ANALYSIS

- FLORIDA FIRE PREVENTION CODE 7TH EDITION 2018
- TYPE OF CONSTRUCTION : II-B / II (000)
- SQUARE FEET| 64,788 S.F.
- NUMBER OF STORIES: 3 STORIES
- FIRE SEPARATION OF OCCUPANCIES: N/A
- STAIRWELLS EXCLOSURES: EXTERIOR WITH 1-HOUR EXTERIOR RATED WALL 10' EXTENDED PAST STAIRS PER NFPA 101 7.2.2.5.2.1
- FEATURES OF FIRE PROTECTION:
  - 1 HOUR RATED EXTERIOR WALLS EXTENDING 10' PAST EXTERIOR EGRESS STAIRS.
  - 2-HOUR RATED WALLS AT ELEVATOR, ELEVATOR MACHINE ROOM & ELECTRICAL/BDA ROOM.
- NFPA 101 OCCUPANCY TYP: NFPA101: NEW STORAGE NFPA 101, CHAPTER 42
- MEANS OF EGRESS COMPONENTS: SEE SHEET A021 FOR DOOR SCHEDULE & TABLE 716.1 OPENING FIRE PROTECTION ASSEMBLIES ON THE CODE REQUIREMENT LEGEND LOCATED ON ALL LIFE SAFETY SHEETS.
- STAIRS, ENCLOSURES, PROTECTION STAIRS, HANDRAILS & GUARDRAILS: SEE SHEET A301 & A302
- OCCUPANT LOAD: 121 PP
- CAPACITY OF MEANS OF EGRESS: STAIRS 48"/.3 = 165 & LEVEL EGRESS 36"/.2=180 & 72"/.2=360
- NUMBER OF EGRESS: 2 EACH FLOOR REMOTELY LOCATED FROM EACH OTHER NFPA101:42.2.4.1
- ARRANGEMENT OF MEANS OF EGRESS: 248' (DIAGONAL DISTANCE), 82' BETWEEN EXITS (2ND & 3RD FLOOR 224' & 1ST FLOOR 119')
- TRAVEL DISTANCE TO EXIT:
  - LEVEL 100: 196' MAXIMUM TRAVEL DISTANCE LESS THAN REQUIRED 400' FOR SPRINKLERED BUILDING (NFPA 101, TABLE 42.2.6).
  - LEVELS 200-300: 187' MAXIMUM TRAVEL DISTANCE LESS THAN REQUIRED 400' FOR SPRINKLERED BUILDING (NFPA 101, TABLE 42.2.6 & A7.6.1)
- COMMON PATH: 30' MAX DISTANCE LESS THAN 100' FOR SPRINKLERED BUILDING (NFPA 101, TABLE 42.2.6)
- INTERIOR FINISHES: SEE SHEET A121
- ILLUMINATION OF MEANS OF EGRESS: SEE E201-E203 & LIFE SAFETY PLANS
- EMERGENCY LIGHTING: SEE SHEETS E201-E203
- MARKING OF MEANS OF EGRESS: SEE SHEETS E201-E203
- DETECTION, ALARM AND COMMUNICATIONS: SEPARATE PERMIT REQUIRED
- EXTINGUISHMENT REQUIREMENTS: SEPARATE PERMIT REQUIRED
- SMOKE DUCT DETECTORS: SEE SHEETS M101-M103
- FIRE DAMPERS: SEE SHEET M101
- IF STRUCTURE IS 12,000 S.F. OR MORE, PROVIDE A SURVEY FROM A LICENSED CONTRACTOR IN RADIO ENHANCEMENT FOR NFPA 1:11.10.1: PROVIDE ROOM "BDA"

LIFE SAFETY GENERAL NOTES:

1. REFERENCE SHEETS A001-A004 FOR WALL TYPE, WALL RATINGS & REQUIRED UL ASSEMBLIES FOR ALL RATED PARTITIONS INDICATED ON LIFE SAFETY PLANS PER THE LINE TYPES INDICATED ON THE LIFE SAFETY LEGEND.
2. REFERENCE DOOR SCHEDULE INCLUDED ON SHEET A021 FOR DOOR RATINGS & HARDWARE REQUIREMENTS. DOOR RATING SHALL ALSO COMPLY WITH RATINGS INDICATED ON THE LIFE SAFETY CODE LEGEND TABLE 716.1 OPENING FIRE PROTECTION ASSEMBLIES.
3. REFERENCE SHEET A301 & A302 FOR STAIR & ELEVATOR DETAILS & REQUIREMENTS.
4. COORDINATE WITH ELECTRICAL DRAWINGS FOR ALL EMERGENCY LIGHTING & ILLUMINATION OF MEANS OF EGRESS.

LIFE SAFETY PLAN LEGEND

- 4-HOUR RATED PARTITION
- 2-HOUR RATED PARTITION
- 1-HOUR RATED PARTITION
- 1-HOUR RATED SMOKE BARRIER
- SMOKE RATED PARTITION

(SEE A001-A003 FOR WALL PARTITION TYPE RATINGS & UL ASSEMBLIES.)

CAPACITY PER NFPA 7.3.3.1 & 12.2.3.2
STAIR = 0.3/PERSON
LEVEL = 0.20/PERSON

0.22/PERSON SHOWN:
36"W DOOR = 34" CLEAR = 155 CAPACITY
42"W DOOR = 40" CLEAR = 182 CAPACITY
48"W DOOR = 46" CLEAR = 209 CAPACITY
72"W DOOR = 68" CLEAR = 309 CAPACITY

OCCUPANCY PER NFPA 7.3.1.2

ASSEMBLY (CONCENTRATED USE)	=7 NSF/PERSON
ASSEMBLY (LESS CONCENTRATED USE)	=15 NSF/PERSON
KITCHENS	=100 NSF/PERSON
LIBRARY READING ROOMS	=50 NSF/PERSON
LIBRARY STACK AREA	=100 NSF/PERSON
STAGES	=15 NSF/PERSON
CLASSROOMS	=20 NSF/PERSON
BUSINESS USE	=150 NSF/PERSON
MERCANTILE (ON STREET LEVEL)	=30 NSF/PERSON
MERCANTILE (I ABOVE STREET LEVEL)	=60 NSF/PERSON
STORAGE USE (OTHER THAN MERCANTILE)	= 500 NSF/PERSON

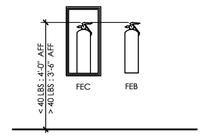
EQUIPMENT LEGEND
- FEC FIRE EXTINGUISHER & CABINET (LOCATION PER NFPA 10)
- FEB FIRE EXTINGUISHER & BRACKET (LOCATION PER NFPA 10)
- EXIT SIGNAGE (SHADING INDICATES FACE OF SIGN. ARROW SHOWN INDICATES DIRECTION TO EGRESS)
- MAGNETIC HOLD OPEN DEVICE
- FIRE ALARM PULL STATION
- FIRE ALARM HORN / STROBE LIGHT
- FIRE ALARM STROBE LIGHT (WALL MOUNTED)
- FIRE ALARM STROBE LIGHT (CEILING MOUNTED)
- FIRE ALARM SPEAKER
- SD SMOKE DETECTOR IN CEILING
- HD HEAT DETECTOR IN CEILING
- WALL MOUNTED EMERGENCY LIGHT

GRAPHICS LEGEND
- CLASSROOM / AREA = 620 SF / 20 OCC. = 31 — ROOM / SPACE NAME; ROOM / SPACE AREA & TOTAL OCCUPANCY
- EXIT ACTUAL 000 / CAPACITY 000 — ACTUAL & ALLOWABLE EGRESS CAPACITIES.
- TRAVEL PATH & DISTANCE (MAX 400 PER NFPA A7.6)
- PATH OF EGRESS WITHIN BUILDING
- (00) ACTUAL EGRESS COUNT

FIRE EXTINGUISHER MOUNTING

NOTE:
EVALUATE CONDITION OF EXISTING FIRE EXTINGUISHERS AND RECHARGE / REPLACE AS REQUIRED.

FIRE EXTINGUISHER SELECTIONS:
1. GENERAL PURPOSE - PROVIDE DRY CHEMICAL EXTINGUISHERS FOR CLASS "A, B AND C" FIRES WITH UNDERWRITERS LABATORY'S RATING OF 5 LB. 2A - 10BC. SEE SPECIFICATION 10 44 00 FOR ADDITIONAL INFORMATION.
2. KITCHENS - PROVIDE WET CHEMICAL EXTINGUISHERS FOR CLASS "K" FIRES WITH UNDERWRITERS LABORATORY RATING. SEE SPECIFICATION 10 44 00 FOR SIZE.



PROVIDE BLOCKING CONCEALED IN PARTITION, ALL WOOD BLOCKING USED IN (FIRE RATED) DRYWALL PARTITIONS SHALL BE FIRE RETARDANT TREATED.

CODE REQUIREMENT LEGEND

OCCUPANCY CLASSIFICATION:
S-1 STORAGE

TYPE OF CONSTRUCTION:
TYPE II-B
SPRINKLERED

SEISMIC DATA:

SITE CLASS DESIGN CATEGORY:	D
SEISMIC USE GROUP:	I
SEISMIC DESIGN CATEGORY	C

ALLOWABLE AREA AND HEIGHT:
MAXIMUM FLOOR AREA: 83,125
MAXIMUM AREA: 249,375 W/ AREA INCREASE (IBC SECTION 506.1)

TABLE 506.1 AREA INCREASE
Aa = [At + (NS x If)] x Sa
Aa = [70,000 + (17,500 x 0.75)] x 3
Aa = [70,000 + 13,125] x 3
Aa = 249,375

TABLE 506.3.3 FRONTAGE INCREASE
If = [F / P - 0.25] W / 30
If = [660.0/660.0 - 0.25] 30 / 30
If = 0.75

TABLE 506.3.2 MINIMUM FRONTAGE DISTANCE
W = (L1 X W1 + L2 X W2...)/F
W = (660 X 30)/660.0
W =30.0

MAXIMUM BUILDING HEIGHT: 35 FEET
MAXIMUM STORIES: 3

BUILDING DESCRIPTION:
BUILDING AREA:

LEVEL	100	21,771 SF
LEVEL	200	21,510 SF
LEVEL	300	21,507 SF
TOTAL		64,788 SF

BUILDING OCCUPANCY:

LEVEL	100	43 PERSONS
LEVEL	200	39 PERSONS
LEVEL	300	39 PERSONS
TOTAL		121 PERSONS

TOTAL BUILDING STORIES: 3
TOTAL BUILDING HEIGHT: 34'-0"

TABLE 601 FIRE RESISTANCE RATING REQUIREMENT FOR BUILDING ELEMENTS (HOURS):

BUILDING ELEMENT	TYPE II-B
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS	
EXTERIOR	0
INTERIOR	0
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0

713.4 SHAFT FIRE-RESISTANCE RATING:

1 HOUR RATED ASSEMBLY WHERE CONNECTING LESS THAN 4 STORIES

2 HOUR RATED ASSEMBLY WHERE CONNECTING 4 OR MORE STORIES OR IN NON-SPRINKLERED ELEVATOR SHAFTS & MACHINE ROOMS

TABLE A7.6 COMMON PATH, DEAD-END, AND TRAVEL DISTANCE LIMITS:

COMMON PATH LIMIT	DEAD-END LIMIT	TRAVEL DISTANCE LIMIT
100	100	400

TABLE 716.1 OPENING FIRE PROTECTION ASSEMBLIES:

TYPE OF ASSEMBLY	REQUIRED WALL ASSEMBLY RATING	MIN. FIRE DOOR & FIRE SHUTTER ASSEMBLY RATING
FIRE WALLS AND FIRE BARRIERS HAVING A REQUIRED FIRE-RESISTANCE RATING GREATER THAN 1 HOUR	4	3
	3	3 a
	2	1½
	1½	1½
	2	1½
SHAFT, EXIT ENCLOSURES AND EXIT PASSAGEWAY WALLS	2	1½
FIRE BARRIERS: ENCLOSURES FOR SHAFTS, EXIT ACCESS STAIRWAYS & RAMPS, INTERIOR EXIT STAIRWAYS & RAMPS AND EXIT PASSAGEWAYS	1	1
OTHER FIRE BARRIERS	1	¾
FIRE PARTITIONS: CORRIDOR WALLS	1	⅓ b
	0.5	⅓ b
OTHER FIRE PARTITIONS	1	¾
	0.5	⅓
EXTERIOR WALLS	3	1½
	2	1½
OTHER FIRE BARRIERS	1	¾
	1	⅓ b

a. TWO DOORS, EACH WITH A FIRE PROTECTION RATING OF 1 1/2 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. FOR TESTING REQUIREMENTS, SEE SECT. 716.3.4

PLUMBING COUNT (2018 IPC)

OCCUPANCY TYPE: S-1

MEN:	1 PER 100
WOMEN:	1 PER 100
LAVATORIES:	1 PER 100
WATER FOUNTAIN:	1 PER 1,000

REQUIRED FIXTURE COUNT:
- WATER CLOSETS
  - 2 TOTAL
- LAVATORY
  - 2 TOTAL
- URINALS
  - N/A
- DRINKING FOUNTAINS
  - 1

ACTUAL FIXTURE COUNT:
- WATER CLOSETS
  - 3 TOTAL
- LAVATORY
  - 3 TOTAL
- URINALS
  - 0 TOTAL
- DRINKING FOUNTAINS
  - 2 TOTAL

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Shamrock Building Systems, Inc.

NEW CONSTRUCTION FOR:
CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS
19TH LANE VERO BEACH, FLORIDA, 32966

DRAWINGS PUBLISHED
- 27 APRIL 2023 CONSTRUCTION DOCUMENTS
- 1 22 SEPTEMBER 2023 ADDENDUM 8

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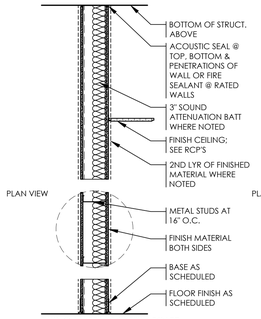
CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS

PROJECT 23002
PHASE ----

SHEET TITLE
BUILDING A LIFE SAFETY PLAN - LEVEL 300

SHEET
LS03

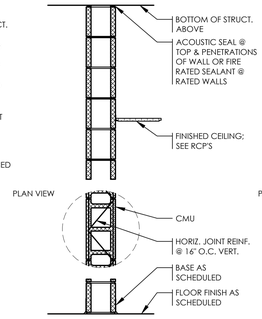
PLOTTED ON 9/26/2023
SMITH BOLAND ARCHITECTS, LLC



TWO (2) LAYERS OF GYPSUM BOARD, STAGGER JOINTS, SCREWED AND GLUED.

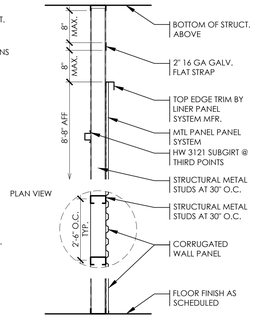
08 — 6" METAL STUDS
W/ ⅝" GYPSUM BOARD ON BOTH SIDES
NON-RATED UL # NONE
NON-LOAD BEARING STC - 40

08E — 6" METAL STUDS
W/ ⅝" MOIST. RESIST. GYP. BD. ON WET SIDE & ⅝" GYP. BD. ON OPP. SIDE W/ 3" SOUND ATTENUATION BATT
NON-RATED UL # NONE
NON-LOAD BEARING STC - 49

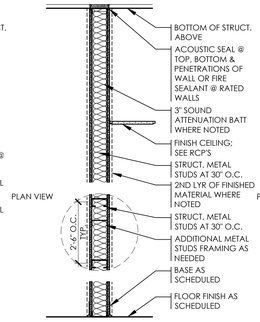


22A — 8" CONCRETE MASONRY UNITS
1-HOUR RATED UL # IBC SECTION 720
NON-LOAD BEARING STC - 49

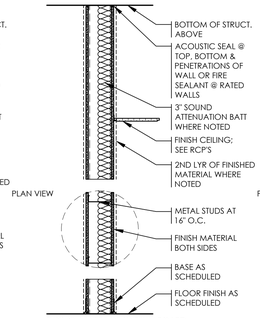
22B — 8" CONCRETE MASONRY UNITS
2-HOUR RATED UL # U905
NON-LOAD BEARING STC - 49



40 — 4" LOAD BEARING METAL STUDS
W/ METAL PANEL DIVIDING PARTITION ASSEMBLY
NON-RATED UL # NONE
LOAD BEARING STC - NA



41 — 4" LOAD BEARING METAL STUDS
W/ ⅝" GYPSUM BOARD ON BOTH SIDES
NON-RATED UL # NONE
LOAD BEARING STC - 40

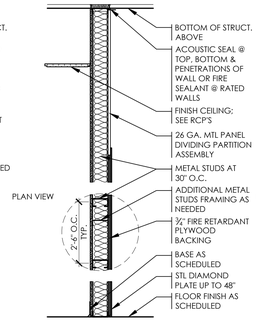


TWO (2) LAYERS OF GYPSUM BOARD, STAGGER JOINTS, SCREWED AND GLUED.

42 — 4" METAL STUDS
W/ ⅝" GYPSUM BOARD ON BOTH SIDES
NON-RATED UL # NONE
NON-LOAD BEARING STC - 40

42D — 4" METAL STUDS
W/ ⅝" MOISTURE RESIST. GYPSUM ON WET SIDE & ⅝" GYPSUM BOARD ON OPP. SIDE
NON-RATED UL # NONE
NON-LOAD BEARING STC - 40

42M — 4" METAL STUDS
W/ (2) LYRS OF ⅝" GYPSUM BOARD ON BOTH SIDES & MINERAL WOOL BATT
2-HOUR RATED UL # U419
NON-LOAD BEARING STC - 55



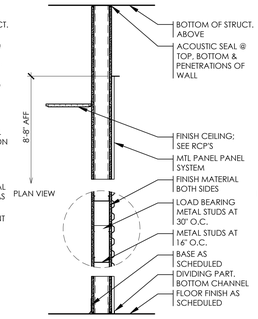
43 — 4" METAL STUDS
W/ ⅝" GYP. DB. ON ONE SIDE & 4' TALL ⅝" PLYD. BEHIND DIAMOND PATTERN STEEL PLATE BELOW MTL. PANELING ON CORRIDOR SIDE
NON-RATED UL # NONE
NON-LOAD BEARING STC - NA

43B — 4" METAL STUDS
W/ ⅝" MOIST. GYP. BD. BEHIND 4' TALL FRP ON WET SIDE & 4' TALL ⅝" PLYD. BEHIND DIAMOND PATTERN STEEL PLATE BELOW MTL. PANELING ON CORRIDOR SIDE
NON-RATED UL # NONE
NON-LOAD BEARING STC - NA

43C — 4" LOAD BEARING METAL STUDS
W/ ⅝" MOIST. GYP. BD. ON WET SIDE & 4' TALL ⅝" PLYD. BEHIND DIAMOND PATTERN STEEL PLATE BELOW MTL. PANELING ON CORRIDOR SIDE
NON-RATED UL # NONE
LOAD BEARING STC - NA

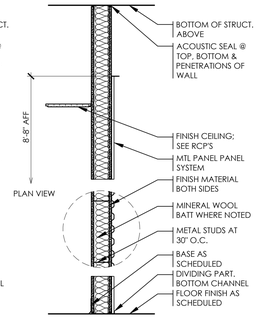
43E — 4" METAL STUDS
W/ ⅝" GYP. BD. ON ONE SIDE & 4' TALL ⅝" PLYD. BEHIND DIAMOND PATTERN STEEL PLATE BELOW MTL. PANELING ON CORRIDOR SIDE & MINERAL WOOL BATT
2-HOUR RATED UL # U419
NON-LOAD BEARING STC - NA

44B — 6" METAL STUDS
W/ ⅝" MOIST. GYP. BD. ON WET SIDE & 4' TALL ⅝" PLYD. BEHIND DIAMOND PATTERN STEEL PLATE BELOW MTL. PANELING ON CORRIDOR SIDE
NON-RATED UL # NONE
NON-LOAD BEARING STC - NA

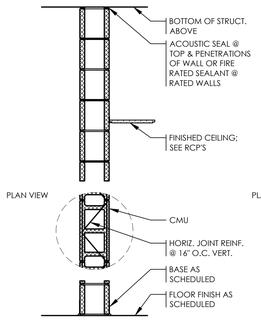


47 — 4" LOAD BEARING METAL STUDS
W/ 4" MTL. STUD INFILL, ⅝" GYP. BD. ON BOTH SIDES & MTL. PANEL ON ONE SIDE (REF. SHEET A052)
NON-RATED UL # NONE
LOAD BEARING STC - NA

47D — 4" LOAD BEARING METAL STUDS
W/ 4" MTL STUD INFILL ⅝" MOIST. RES. GYP. BD. ON WET SIDE & MTL. PANEL ON OPP. SIDE (REF. SHEET A052)
NON-RATED UL # NONE
LOAD BEARING STC - NA

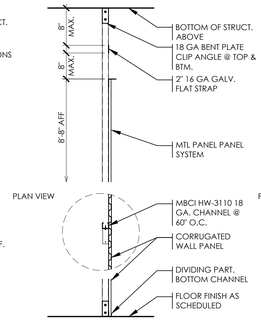


48D — 4" METAL STUDS
W/ ⅝" GYPSUM BOARD ON BOTH SIDES & METAL PANEL ON ONE SIDE & MINERAL WOOL BATT (REF. SHEET A052)
2-HOUR-RATED UL # U419
NON-LOAD BEARING STC - NA

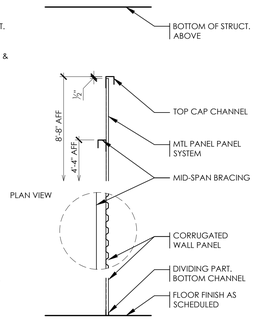


50A — 8" CONCRETE MASONRY UNITS
W/ 4' TALL DIAMOND PATTERN STEEL PLATE ON CORRIDOR SIDE
1-HOUR RATED UL # IBC SECTION 720
NON-LOAD BEARING STC - 49

50B — 8" CONCRETE MASONRY UNITS
W/ 4' TALL DIAMOND PATTERN STEEL PLATE ON CORRIDOR SIDE
2-HOUR RATED UL # U905
NON-LOAD BEARING STC - 49

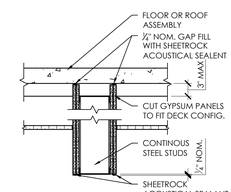


60 — METAL PANEL
DIVIDING PARTITION ASSEMBLY (REF. DETAIL A16/A052)
NON-RATED UL # NONE
NON-LOAD BEARING STC - NA

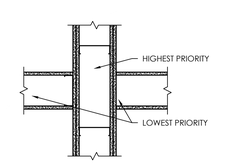


61 — METAL PANEL WALL SYSTEM
DIVIDING PARTITION ASSEMBLY (REF. DETAIL A01/A051)
NON-RATED UL # NONE
NON-LOAD BEARING STC - NONE

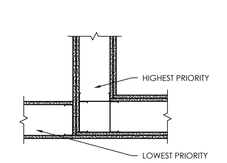
A01 — PARTITION TYPES
A001 3/4" = 1'-0"



E16 — RATED PRIORITY @ ASSEMBLY ABOVE
A001 1" = 1'-0" SECTION



C16 — PARTITION PRIORITY @ INTERSECTION
A001 1" = 1'-0" PLAN



A16 — PARTITION PRIORITY @ CORNER
A001 1" = 1'-0" PLAN

PARTITION NOTES

1. CONTRACTOR SHALL MAINTAIN U.L. RATING OF PARTITION TIGHT TO UNDERSIDE OF STRUCTURE WHERE MATERIALS TRANSITION.
2. SEE FLOOR PLANS FOR LOCATION AND EXTENT.
3. WHERE PARTITIONS IN THE SAME PLANE ARE SCHEDULED WITH VARYING THICKNESS OR MULTIPLE LAYERS OF GYPSUM WALLBOARD, CONTRACTOR SHALL OFFSET THE STUDS OR PROVIDE THICKER GYPSUM WALLBOARD OVER TO THE NEAREST CORNER. (WALLS IN SAME PLANE MUST BE FLUSH).
4. ADJUST WALL THICKNESS AS REQUIRED TO FLUSH BOTH SIDES OF NEW PARTITION WITH EXISTING ADJACENT PARTITION IN THE SAME PLANE.
5. FUR-IN AROUND ALL EXPOSED PIPES, CONDUIT AND DUCTWORK (UNLESS NOTED OTHERWISE). FUR-IN PARTITION TYPE TO MATCH ADJACENT PARTITION MATERIAL.
6. ALL WOOD BLOCKING USED IN (FIRE RATED) DRYWALL PARTITIONS SHALL BE FIRE RETARDANT TREATED.
7. ALL WET WALLS BEHIND PLUMBING FIXTURES TO BE MOISTURE RESISTANT GYPSUM WALLBOARD. REFER TO ROOM FINISH SCHEDULE FOR WALL TO RECEIVE MOISTURE RESISTANT GYPSUM WALLBOARD AND TILE BACKER BOARD, SIZE AND RATING AS REQUIRED FOR PARTITION TYPE.
8. PROVIDE RESILIENT CHANNEL ON NOISE GENERATING SIDE OF WALL.
9. WHERE STEEL BEAMS AND/OR JOISTS PENETRATE FIRE AND/OR SMOKE RATED WALLS, PROVIDE FIRESAFING AT INTERSECTION OF BEAM AND/OR JOISTS AND METAL ROOF DECK.
10. AT INTERSECTION OF A RATED WALL WITH RATED OR NON-RATED WALLS, THE HIGHER PRIORITY (HIGHER RATED) WALL SHALL PASS THROUGH THE LESSER PRIORITY WALL.
11. OUTSIDE FACE OF INTERIOR DOOR FRAMES SHALL BE 4-1/2" FROM ADJACENT WALL (UNLESS NOTED OTHERWISE).
12. SEAL ALL CONDUITS, PIPES, DUCTWORK, ETC., PASSING THROUGH FIRE RATED WALLS WITH APPROVED FIRE RATED MATERIALS AS PER THE REQUIRED ASSEMBLIES. ALL PENETRATIONS SHALL CONFORM TO ASTM E-814 OR UL DES. 1479 FOR FIRE RATINGS.
13. REFERENCE FINISH PLANS FOR BASE MOLDING LOCATIONS AND TYPE. ALL PARTITIONS RECEIVE BASE MOLDING UNLESS NOTED OTHERWISE.
14. DRYWALL PARTITIONS WHICH EXTEND TO STRUCTURE SHALL BE TIGHT AGAINST BEAMS, HEADERS, JOISTS OR DECKS AND BE CAULKED WITH SEALANT. AT RATED PARTITIONS, PROVIDE UL (UNDERWRITERS LABORATORIES) LISTED SEALANTS.
15. CORRIDOR PARTITIONS, SMOKE STOP PARTITIONS, HORIZONTAL EXIT PARTITIONS, EXIT ENCLOSURES AND OTHER FIRE PARTITIONS AS REQUIRED BY BUILDING CODES SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING AT 12'-0" O.C. MAX. IN A MANNER ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION. SUCH IDENTIFICATION SHALL BE ABOVE ANY DECORATIVE CEILING AND CONCEALED SPACES. SUGGESTED WORDING - " FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS."
16. BACK BOXES FOR ELECTRICAL, CABLE TV, AND TELEPHONE MUST BE SEALED AIRTIGHT BY EITHER ONE OF THE FOLLOWING APPROACHES:

    A. COVER THE BACK SURFACE OF THE BOXES WITH SHEET CAULK/FIREPROOFING PRODUCT EQUIVALENT TO IPC FSP1077 PUTTY PADS OR HILTI CP 617 FIRESTOP PUTTY PADS.
    B. FILL THE INTERIOR OF THE BOXES WITH EXPANDING POLYURETHANE FOAM SEALANT AFTER WIRING.

17. DO NOT LOCATE BACK BOXES BACK TO BACK.
18. CUT-OUTS IN THE WALL BOARD FOR BOXES SHOULD BE PERIMETER CAULKED AND SEALED WITH AN EXPANDING POLYURETHANE FOAM SEALANT.

REQUIRED STC RATINGS

THE FOLLOWING STC RATINGS SHALL BE MAINTAINED, AS REQUIRED BY THE OWNER.

FLOOR / CEILING ASSEMBLY: 55 STC

ALL OTHER CONDITIONS HAVING SOUND ATTENUATION NOT OTHERWISE MENTIONED: 47 STC

NOTE:
THESE RATINGS GENERALLY EXCEED THOSE REQUIRED BY LOCAL CODES AND LICENSING AGENCIES.

GYPSUM WALLBOARD SYSTEMS

09 29 00 - GYPSUM WALLBOARD SYSTEMS

NOTE:
CONSTRUCTION OF INTERIOR WALLS AND PARTITIONS TO ADEQUATELY RESIST THE APPLICABLE DESIGN LOADS AND A MINIMUM HORIZONTAL DESIGN LOAD OF 5 PSF APPLIED NORMAL TO THE WALL SURFACE. SEE SPECIFICATION SECTION 09 26 00 FOR INFORMATION REGARDING SIZE, GAUGE, SPACING, AND HEIGHT OF LIGHT GAUGE STEEL STUDS.

NOTE:
INTERIOR PARTITION LIMITING HEIGHT SHALL BE BASED ON WALL HEIGHT TABLES PUBLISHED BY STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) UNLESS TECHNICAL PUBLISHED DATA BY THE MANUFACTURER OF THE SPECIFIC LIGHT GAUGE STEEL STUDS IS SUBMITTED. (IBC SECTIONS 1603.1, 1607.13, AND 2210)

NOTE:
WOOD FRAMING FOR INTERIOR NONBEARING PARTITIONS WITH A FIRE-RESISTANCE-RATING NO GREATER THAN TWO (2) HOURS SHALL BE FIRE-RETARDANT-TREATED FOR BUILDINGS OF TYPE I AND TYPE II CONSTRUCTION EXCEPT FOR BLOCKING ASSOCIATED WITH HANDRAILS, MILLWORK, CABINETS, AND WINDOW AND DOOR FRAMES. (IBC SECTIONS 602.2 AND 603.1)

PARTITION PRIORITY LEGEND

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

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CONSULTANT

Shamrock Building Systems, Inc.

NEW CONSTRUCTION FOR:
CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS
19TH LANE VERO BEACH, FLORIDA, 32966

DRAWINGS PUBLISHED
27 APRIL 2023 CONSTRUCTION DOCUMENTS

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CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS

PROJECT 23002
PHASE ----

SHEET TITLE
PARTITION TYPES

SHEET
A001

PLOTTED ON 11/6/2023

BY ARCH 01 (BOLAND, MICHAEL P.)

FIRE AND SMOKE PROTECTION FEATURES

TABLE 721.1(2)
RATED FIRE-RESISTANCE PERIODS FOR VARIOUS WALLS AND PARTITIONS [a,b,c,f]

MATERIAL	ITEM NUMBER	CONSTRUCTION	MINIMUM FINISHED THICKNESS FACE-TO-FACE[g] (inches)			
			4 hours	3 hours	2 hours	1 hour
3. Concrete masonry units	3-1.1[d,e]	Expanded slag or pumice.	4.7	4.0	3.2	2.1
	3-1.2[d,e]	Expanded clay, shale or slate.	5.1	4.4	3.6	2.6
	3-1.3[f]	Limestone, cinders or air-cooled slag.	5.9	5.0	4.0	2.7
	3-1.4[d,e]	Calcareous or siliceous gravel.	6.2	5.3	4.2	2.8

For SI: 1 inch = 25.4 mm, 1 square inch = 645.2 mm^2, 1 cubic foot = 0.0283 m^3.

a. Staples with equivalent holding power and penetration shall be permitted to be used as alternate fasteners to nails for attachment to wood framing.

b. Thickness shown for brick and clay tile is nominal thicknesses unless plastered, in which case thicknesses are net. Thickness shown for concrete masonry and clay masonry is equivalent thickness defined in Section 722.3.1 for concrete masonry and Section 722.4.1 for clay masonry. Where all cells are filled with solid grouted or filled with siliceous-aggregate perlite loose-fill insulation; vermiculite loose-fill insulation; or expanded clay, shale or slate lightweight aggregate, the equivalent thickness shall be the thickness of the block or brick using specified dimensions as defined in Chapter 21. Equivalent thickness shall include the thickness of applied plaster and lath or gypsum wallboard, where specified.

c. For units in which the net cross-sectional area of cored brick in any plane parallel to the surface containing the cores is not less than 75 percent of the gross cross-sectional area measured in the same plane.

d. Shall be used for nonbearing purposes only.

e. For all of the construction with gypsum wallboard described in this table, gypsum base for veneer plaster of the same size, thickness and core type shall be permitted to be substituted for gypsum wallboard, provided that attachment is identical to that specified for the wallboard, and the joints on the face layer are reinforced and the entire surface is covered with not less than $\frac{1}{16}$ inch gypsum veneer plaster.

f. The fire-resistance time period for concrete masonry units meeting the equivalent thicknesses required for a 2-hour fire-resistance rating in Item 3, and having a thickness of not less than 3$^5/_8$ inches is 4 hours where cores that are not grouted are filled with siliceous-treated perlite loose-fill insulation; vermiculite loose-fill insulation; or expanded clay, shale or slate lightweight aggregate, sand or slag having a maximum particle size of $^3/_8$ inch.

g. The fire-resistance rating of concrete masonry units composed of a combination of aggregate types or where plaster is applied directly to the concrete masonry shall be determined in accordance with ACI 216.1/TMS 0216. Lightweight aggregates shall have a maximum combined density of 65 pounds per cubic foot.

ONLINE CERTIFICATIONS DIRECTORY

Design No. U419
BXUV.U419
Fire Resistance Ratings - ANSI/UL 263

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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

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263

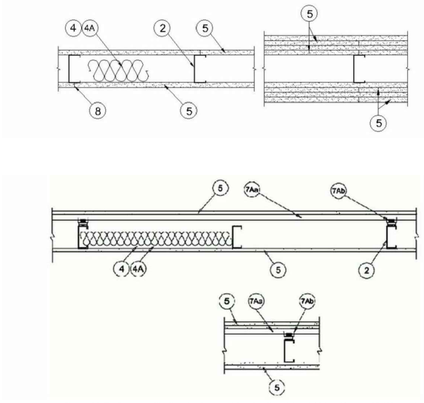
See General Information for Fire-resistance Ratings - CAN/ULC-S101 Certified for Canada

Design No. U419

October 02, 2017

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5K)

*** 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

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™ Track

CRACO MFG INC — SmartTrack25™

MARINO/WARE, DIV OF WARE INDUSTRIES 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 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track

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

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 Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

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 fastened to floor and ceiling with fasteners spaced max 24 in. OC.

MARINO/WARE, DIV OF WARE INDUSTRIES 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.

TELLING INDUSTRIES L L C — Viper25™ Track

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 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

TELLING INDUSTRIES L L C — Viper20™ Track

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.

STEEL INVESTMENT GROUP 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.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X Track

2. **Steel Studs —** Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2A. **Steel Studs —** (As an alternate to Item 2, For use with Items 5B, 5E, 5H, 5J and 5K) — 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 5K) — 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.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™

CRACO MFG INC — SmartStuds25™

MARINO/WARE, DIV OF WARE INDUSTRIES 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 of 24 in. OC, fabricated from min 0.020 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly height.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™

MARINO/WARE, DIV OF WARE INDUSTRIES 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 Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

2E. **Framing Members* — Steel Studs —** (Not Shown, As an alternate to Item 2) — For use with Items 5F or SG or 5I only, channel shaped studs, min depth as indicated under Item 5F, SG 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 — CRDCSTUD

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 —** (As an alternate to Item 2, For use with Items 5C or 5L or 5K) — 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.

TELLING INDUSTRIES L L C — Viper25™

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 0.020 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly height.

TELLING INDUSTRIES L L C — Viper20™

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.

OLHAR 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.

STEEL INVESTMENT GROUP 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 Stud —** 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.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X

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 with 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 BZRZ) Categories for names of Classified companies.

4A. **Batts and Blankets* —** (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.

See **Batts and Blankets** (BKNV or BZRZ) Categories for names of Classified companies.

4B. **Batts and Blankets* —** For use with Item 5K. Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.

See **Batts and Blankets** (BKNV or BZRZ) Categories for names of Classified companies.

4C. **Fiber, Sprayed* —** (Optional) and as an alternate to Batts and Blankets (Item 4B) 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** (CCAC).

AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

5. **Gypsum Board* —** Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Items 2, 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, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE

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

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

UNITED STATES GYPSUM CO — Type SCX, SGX.

USG BORAL ZAWAWI DRYWALL L L C SFZ — 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 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.

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

USG BORAL ZAWAWI DRYWALL L L C SFZ — 5/8 in. thick Type SCX

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, or; 3/4 in. thick Types IP-X3 or ULTRACODE

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

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

51. **Gypsum Board* —** (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5.

CGC INC — Type ULX

UNITED STATES GYPSUM CO — Type ULX

USG MEXICO S A DE C V — Type ULX

53. **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 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* —** (Not Shown) — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Items 2 through 2O	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4B)
1	3-5/8	1 layer, 5/8 in. thick	3-1/2 in.
2	1-5/8	2 layers, 5/8 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

UNITED STATES GYPSUM CO — 5/8 in. thick Type ULDX

6. **Fasteners —** (Not Shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Two layer systems:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 12 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 and 5E.

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 and 5E.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Aa) to side of 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. 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

UL Product iQ®

BXUV.U425 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL 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.

Fire-resistance Ratings - ANSI/UL 263

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

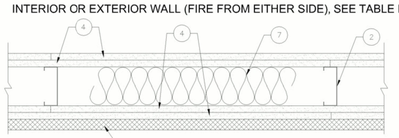
Design No. **U425**

February 21, 2023

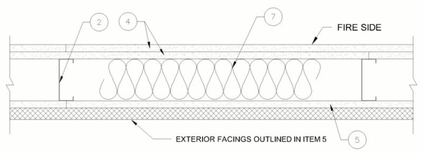
Bearing Wall Rating — 3/4 Hr., 1, 1-1/2 or 2 Hr.
(See Items 2, 4 and 5)
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor 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.**

INTERIOR OR EXTERIOR WALL (FIRE FROM EITHER SIDE), SEE TABLE I



EXTERIOR WALL (FIRE FROM INTERIOR SIDE ONLY), SEE TABLE II



1. **Steel Floor and Ceiling Tracks —** (Not Shown) — Top and bottom tracks of wall assemblies shall consist of steel members, min No. 20 MSG (0.0329 in., min bare metal thickness) steel or min No. 20 MSG (0.036 in. thick) galv steel or No. 20 MSG (0.033 in. thick) primed steel, that provide a sound structural connection between steel studs, and to adjacent assemblies such as a floor, ceiling, and/or other walls. Attached to floor and ceiling assemblies with steel fasteners spaced not greater than 24 in. O.C.

2. **Steel Studs —** Min 3-1/2 in. wide, No. 20 MSG (0.0329 in., min bare metal thickness) corrosion protected cold formed steel studs designed in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute. All design details enhancing the structural integrity of the wall assembly, including the axial design load of the studs, shall be as specified by the steel stud designer and/or producer, and shall meet the requirements of all applicable local code agencies. The max stud spacing of wall assemblies shall not exceed 24 in. OC (or 16 in. OC when Item 5b is used). Studs attached to floor and ceiling tracks with 1/2 in. long Type S-12 steel screws on both sides of studs or by welded or bolted connections designed in accordance with the AISI specifications.

2A. **Steel Studs — Framing Members* —** In lieu of Item 2 — Min 3-1/2 in. wide, No. 20 MSG (0.0329 in., min bare metal thickness) corrosion protected cold formed steel studs designed in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute. All design details enhancing the structural integrity of the wall assembly, including the axial design load of the studs, shall be as specified by the steel stud designer and/or producer, and shall meet the requirements of all applicable local code agencies. The max stud spacing of wall assemblies shall not exceed 24 in. OC (or 16 in. OC when Item 5b is used). Studs attached to floor and ceiling tracks with 1/2 in. long Type S-12 steel screws on both sides of studs or by welded or bolted connections designed in accordance with the AISI specifications.
EB METAL INC — NITROSTUD

2B. **Steel Studs — Framing Members* —** In lieu of Item 2 — Min 3-5/8 in. wide, No. 20 MSG (0.036 in. min. thickness) corrosion protected cold formed steel studs designed in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute. All design details enhancing the structural integrity of the wall assembly, including the axial design load of the studs, shall be as specified by the steel stud designer and/or producer, and shall meet the requirements of all applicable local code
.
ceiling tracks with 1/2 in. long Type S-12 steel screws on both sides of studs or by welded or bolted connections designed in accordance with the AISI specifications.
BAILEY METAL PRODUCTS LTD

3. **Lateral Support Members —** (Not Shown) — Where required for lateral support of studs, support may be provided by means of steel straps, channels or other similar means as specified in the design of a particular steel stud wall system.

4. **Gypsum Board* — Any 1/2 in. thick UL Classified Gypsum Board that is eligible for use in Design No. X515. Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, GS12 or U305.** Gypsum board bearing the UL Classification Marking as to Fire Resistance. Applied vertically with joints between layers staggered. Outer layer of 3 layer construction may be applied horizontally unless specified below. The thickness and number of layers and percent of design load for the 45 min, 1 hr, 1-1/2 hr and 2 hr ratings are as follows:

TABLE I
Interior or Exterior Walls (Fire From Either Side)

Rating	Wallboard Protection Both Sides of Wall - No. of Layers & Thkns of Board In. Each Layers	% of Design Load
45 min	1 layer, 1/2 in. thick	100
1 hr	1 layer, 5/8 in. thick	100
1-1/2 hr	2 layers, 1/2 in. thick	100
2 hr	2 layers, 5/8 in. thick or	80
2 hr	3 layers, 1/2 in. thick	100
2 hr	2 layers, 3/4 in. thick	100

Note: Exterior facings allowed for use with Item 5 are also allowed to be installed on one side of the above walls.

TABLE II
Exterior Walls (Fire from Interior Side Only)

Rating	Wallboard Protection on Interior Side of Wall - No. of Layers & Thkns of Board In. Each Layers	% of Design Load
45 min	1 layer, 5/8 in. thick	100
1 hr	2 layers, 1/2 in. thick	100
1-1/2 hr	2 layers, 5/8 in. thick	100
2 hr	3 layers, 1/2 in. thick	100
2 hr	2 layers, 3/4 in. thick	100

AMERICAN GYPSUM CO (View Classification) — CKNX.R14196

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) — CKNX.R19374

CABOT MANUFACTURING ULC (View Classification) — CKNX.R25370

CERTAINTEED GYPSUM INC (View Classification) — CKNX.R3660

CGC INC (View Classification) — CKNX.R19751

CERTAINTEED GYPSUM INC (View Classification) — CKNX.R18482

GEORGIA-PACIFIC GYPSUM L L C (View Classification) — CKNX.R2717

LOADMASTER SYSTEMS INC (View Classification) — CKNX.R11809

NATIONAL GYPSUM CO (View Classification) — Riyadh, Saudi Arabia — CKNX.15208

NATIONAL GYPSUM CO (View Classification) — CKNX.R3501

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification) — CKNX.R7094

PANEL REY S A (View Classification) — CKNX.R21796

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification) — CKNX.R19262

THAI GYPSUM PRODUCTS PCL (View Classification) — CKNX.R27517

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO (View Classification) — CKNX.R40305

UNITED STATES GYPSUM CO (View Classification) — CKNX.R1319

USG BORAL DRYWALL SFZ LLC (View Classification) — CKNX.R38438

USG MEXICO S A DE C V (View Classification) — CKNX.R16089

4A. **Gypsum Board —** Nom. 3/4 in. gypsum board applied vertically with joints between layers staggered. The thickness and number of layers and percent of design load for the 2 hr ratings are shown in the table above.
CGC INC — Types AR, IP-AR, IP-X3, or ULTRACODE

UNITED STATES GYPSUM CO — Types AR, IP-AR, IP-X3, or ULTRACODE

USG BORAL DRYWALL SFZ LLC — Type ULTRACODE

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

4B. **Gypsum Board* —** (As an alternate to Item 4) — Nom. 5/8 in. thick gypsum panels, with square edges, applied horizontally. Gypsum panels fastened to framing with 1 in. long bugle head steel screws spaced a max 8 in. OC, with last 2 screws 3/4 in. and 4 in. from each edge of board. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs on interior walls need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers on interior walls (multilayer systems) staggered a min of 12 in.
GEORGIA-PACIFIC GYPSUM L L C — GreenGlass Type X, Type DGG

NATIONAL GYPSUM CO — Type FSW-6.

CERTAINTEED GYPSUM INC — GlasRoc

4C. **Gypsum Board* —** (As an alternate to Item 4) — 5/8 in. thick, 4 ft. wide, paper surfaced applied vertically only and secured as described in Item 6.
GEORGIA-PACIFIC GYPSUM L L C — Type X ComfortGuard Sound Deadening Gypsum Board.

NATIONAL GYPSUM CO — Type SBWB

4D. **Wall and Partition Facings and Accessories* —** (As an alternate to Item 4) — 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 ES.

4E. **Wall and Partition Facings and Accessories* —** (As an alternate to Item 4) — 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.

4F. **Gypsum Board* —** (As an alternate to 5/8 in. Type FSW in Item 4) — 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 4. 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 4, spaced 24 in. OC. Outer layer of each double 5/16 in. layer attached per Item 4.
NATIONAL GYPSUM CO — Type FSW.

4G. **Wall and Partition Facings and Accessories* —** (As an alternate to 5/8 in. thick board as outlined in Item 4) — Nominal 1-3/8 in. thick, 4 ft wide panels, applied vertically or horizontally. Fastened to studs as described in item 6.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 545

5. **Gypsum Boards —** For exterior walls, Rating from Interior Side Only - 1/2 or 5/8 in. thick Classified or unclassified gypsum boards applied vertically and attached to studs and runner tracks with 1 in. long Type S-12 bugle head screws spaced 12 in. OC. along studs and tracks. One of the following exterior facings are to be applied over the gypsum board.
a. **Siding, Brick, or Stucco —** Aluminum siding, steel siding, brick veneer, or stucco attached to studs over gypsum sheathing and meeting the requirements of local code agencies. When a min 3-3/4 in. thick brick veneer facing is used, the Exterior Wall Rating is applicable with exposure on either face. Brick veneer wall attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick. When a min 3-3/4 in. thick brick veneer facing is used, Foamed Plastic (Item 10) may be used.

b. **Cementitious Backer Units* —** 1/2 or 5/8 in. thick, attached vertically or horizontally to steel studs over gypsum sheathing with 1-5/8 in. long, Type S-12, corrosion resistant, wafer head steel screws, spaced 8 in. OC. Studs spaced a max of 16 in. OC. Joints covered with glass fiber mesh tape.
UNITED STATES GYPSUM CO — Type DCB

NATIONAL GYPSUM CO — Type PermBase, or DuraBacker

c. **Fiber-Cement Siding —** Fiber-cement exterior sidings including smooth and patterned panel or lap siding.

d. **Molded Plastic* —** Solid vinyl siding mechanically secured to framing members in accordance with manufacturer's recommended installation details.
ALSIDE, DIV OF ASSOCIATED MATERIALS INC

e. **Wood Structural Panel or Lap Siding —** APA Rated Siding, Exterior, plywood, OSB or composite panels with veneer faces and structural wood core, per PS 1 or APA Standard PRP-108, including textured, rough sawn, medium density overlay, brushed, grooved and lap siding.

f. **Building Units* —** (Not Shown) — 3 in. thick 18 x 24 in. cellular glass blocks, applied to the gypsum board (Item 5) with PC 88 adhesive or fastened with F anchors spaced a maximum 24 in. OC. F anchors fastened to framing members with 1-1/4 in. long #6 drywall screws.
PITTSBURGH CORNING LLC — FOAMGLAS® T3+ Block; FOAMGLAS® T4+ Block, FOAMGLAS® S3 Block; FOAMGLAS® F Block

6. **Fasteners —** (Not Shown) — Screws used to attach wallboard to studs: self-tapping bugle head sheet steel type, spaced 12 in. O.C. First layer Type S-12 by 1 in. long for 1/2 and 5/8 in. thick wallboards and 1-1/4 in. long for 3/4 in. thick wallboard. Second layer Type S-12 by 1-5/8 in. long for 1/2 and 5/8 in. thick wallboards and 2-1/4 in. long for 3/4 in. thick wallboard. Third layer Type S-12 by 1-7/8 in. long. Fasteners when Item 4G is used: First layer #6 x 2 in. long drywall screw spaced 8 in. OC along the perimeter and 12 in. OC in the field. Second layer #6 x 4 in. long drywall screw spaced 8 in. OC along the perimeter and 12 in. OC in the field. Horizontal joints to be staggered 12 in. between layers.
7. **Batts and Blankets* —** Placed in stud cavities of all exterior walls. May or may not be used in interior walls. Any glass fiber or mineral wool batt material bearing the UL Classification Marking as to Fire Resistance, of a thickness to completely fill stud cavity.
See **Batts and Blankets*** (BZJZ) Category for names of Classified companies.

7A. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 7) — (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/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 — INS735, INS745, INS750LD, and Insulmax for use with wet or dry application. INS765LD and INS773LD are to be used for dry application only.

7B. **Fiber, Sprayed* —** As an alternate to Item 7 — 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. Nominal dry density of 4.58 lb/ft^3.
NU-WOOL CO INC — Cellulose Insulation

7C. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 7) — 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 — Celbar-RL

7D. **Fiber, Sprayed* —** (Optional) — As an alternate to Batts and Blankets (Item 7) — Spray applied mineral wool insulation. The fiber is applied with adhesive, at a minimum density of 4.0 pcf, to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCAZ).
AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

8. **Joint Tape and Compound —** (Not Shown) — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layer. Perforated paper tape, 2 in. wide, embedded in first layer of compound over all joints of outer layer.

9. **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.

10. **Foamed Plastic* —** (Optional, Not Shown) For use with brick veneer as outlined in Item 5a - Maximum 2 in. thick rigid polystyrene insulation attached to studs with fasteners of sufficient length to penetrate the foam and 3/16 in. into the stud. A minimum 1 in. air space is to be maintained between the outer surface of the foamed plastic and the inner surface of the brick veneer.
ATLAS MOLDED PRODUCTS, A DIVISION OF ATLAS ROOFING CORPORATION — Type ThermalStar

OWENS CORNING SCIENCE AND TECHNOLOGY, LLC

10A. **Foamed Plastic* —** (Optional, Not shown) — For use with brick veneer as outlined in Item 5a - Mortar drop protection - Foamed plastic with mortar control device attached, continuous, by drainage holes at bottom of air space behind brick veneer.
OWENS CORNING SCIENCE AND TECHNOLOGY, LLC — WeepGuard

10B. **Foamed Plastic* —** Polyisocyanurate foamed plastic insulation boards, any thickness, Classified in accordance with BRYX and / or CCVW. May be used with any exterior facing shown under items 5a, 5c, 5d and 5e.
ATLAS ROOFING CORP — "EnergyShield Pro Wall Insulation", "EnergyShield Pro 2 Wall Insulation", EnergyShield CGF Pro and EnergyShield Ply Pro

DUPONT DE NEMOURS, INC. — Type 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 — "Envergе™ CI Foil Exterior Wall Insulation" and "Envergе™ CI Glass Exterior Wall Insulation"

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Type "Xci-Class A", " Xci 2B6", "Xci Foil (Class A)", "Xci CG", "Xci Foil", "Xci CG NH", "Xci Foil NH"

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", "Duratheath"

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

10C. **Building Unit* —** Polyisocyanurate foamed plastic composite insulation boards, any thickness, Classified in accordance with BZXX. May be used with any exterior facing shown under items 5a, 5c, 5d and 5e.
HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Type "Xci NB" and "Xci Ply"

LAMINATORS INC — Type "Omega ci"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — Types Thermasheath-SI, ECOBASEci, ECOMAXci FR Ply, ThermaBase-CI, "ECOMAXci Ply", attached to studs with Type S screws long enough to penetrate the studs a minimum of three threads.

10D. **Foamed Plastic* —** (As an alternate to Item 10 - Not Shown) — Expanded polystyrene insulation installed to a maximum nominal density of 2.0 lb/ft^3.

BASF CORP STYRENIC FOAMS DIV — Types Neopor® GPS, Neopor® GPS IE GPS, Neopor® GPS EIFS GPS, Progressive Foam Technologies Halo, and ProBoard.

10E. **Foamed Plastic* —** (Optional, As an alternate to Item 10 - Not Shown) — Spray applied, foamed plastic insulation, at any thickness, Classified in accordance with CCVW. May be used with any exterior facing shown under items 5a, 5c, 5d and 5e.
CARLISLE SPRAY FOAM INSULATION — Types 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.

10F. **Foamed Plastic* —** (Optional, as an alternate to Item 10 - Not Shown) — Spray applied, foamed plastic insulation, at any thickness, Classified in accordance with CCVW. To be used with any exterior facing shown under items 5a, 5c, 5d and 5e when installed in accordance with the requirements of local code agencies.
BASF CORP — Types Enertite® NVI, Enertite® Q, FE1327®, FE1587®, Spraytite® 158, Spraytite® SP, Sprayrite® 81205, FE178®, Sprayrite® 178, Sprayrite® 81206, Wallrite® 200, Wallrite® US, Wallrite® US-N and Wallrite® HP+, Wallrite XL.

11. **Cementitious Backer Units* —** (Optional, Not Shown - For Use as an additional layer over required gypsum boards) - 7/16 in., 1/2 in., 5/8 in., 3/4 in. or 1 in. thick, min. 32 in. wide - Applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with cement board screws of adequate length to penetrate stud by a minimum of 3/8 in. spaced a max of 8 in. OC. When 4 ft. wide boards are used, horizontal joints need not be backed by framing.
NATIONAL GYPSUM CO — Type DuraBacker, PermaBase, DuraBacker Plus, or PermaBase Plus

11A. **Building Units –** (Optional Item Not Shown - For use over Gypsum Board, Item 4 or Item 5) 1 in., 2 in. or 3 in. thick, 4 ft. wide – Applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with wafer head screws of adequate length to penetrate framing by a minimum of of ¾ in., spaced a max 8 in. o.c.
NATIONAL GYPSUM CO – Type PBCI

12. **Wall and Partition Facings and Accessories* —** (CLBV) (Optional, Not Shown) — For use with Item 1, Items 2 and 2A, Item 3, Item 4 to 4B, Item 6, Item 7, Item 8 and Item 9. For maximum fire rating of 1 hour. On one side of the wall, over the first layer of Gypsum Board (Item 4 to 4B), install RefleXor membrane with the gold side facing outwards. Membrane installed with T50 staples spaced 12 inches on centre on both directions as per manufacturer's instructions, seams in membrane to be overlapped by 2 inches. When RefleXor membrane is used an additional layer of Gypsum Board that is identical to the one used in the first layer and as specified in Item 4 to 4B shall be installed over the membrane. The additional layer of Gypsum Board to be installed through the membrane to the stud as specified in Item 4 to 4B except the fastener length shall be increased by a minimum of 5/8 inch. Install Batts and Blankets in the stud cavity as per Item 7.

On the other side of the wall prior to the installation of the Gypsum Board install Resilient Channels , 25 MSG galv steel, spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws. Over the Resilient Channels install 3/4 inch thick SONOpan panel secured to the Resilient Channels with min. 1-1/4 in. long drywall screws and washers spaced at 16 in. OC on the perimeter of the panel and 8 in. OC in the field of the panel. Over the SONOpan panel install the same Gypsum Board as specified in Item 4 (or 4 alternates) with the fastener length increased by minimum 3/4 inch. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

Alternately, on the other side of the wall prior to the installation of the Gypsum Board (Item 4), install 3/4 in. thick SONOpan panels, secured to one side of studs either horizontally or vertically. Panels secured to each stud with min. 1-1/4 in. long drywall screws spaced 12 in. OC. Over the SONOpan, install 25 MSG galv steel, Resilient Channels, spaced vertically 24 in. OC. Resilient Channels fastened through panels to each stud with min. 2 in. long drywall screws or self-tapping screws. Over the Resilient Channels install Gypsum Board as specified in Item 4 (or 4 alternates) with drywall screws as specified in Item 6. Panels not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

MSL — RefleXor membrane, SONOpan panel.

13. **Wall and Partition Facings and Accessories* —** (Optional, Not Shown) - **When the Wall Assembly is used as an External Wall, on the External side of the wall one of the following Wall and Partition and Facing Accessories may be used, refer to items (A) to (C) below.**
A. **Non Insulated System with Metal Channels —** Install moisture barrier over the Gypsum Board Item 4 and Install Acry Metal Channels vertically at a horizontal spacing not greater than 24 inches OC over the moisture barrier. Acry Metal Channels attached through the moisture barrier and the Gypsum Board to the Steel Studs Item 2 using fasteners specified by the manufacturer and fasteners spaced max., 24 in. OC. Install Acrytec Panels on Acry Metal Channels using 1-1/4" long corrosion coated stainless steel screws spaced at a max spacing of 24 inches OC, along with manufacturer's approved adhesive (3M 540 or Tremco Vulcum 116). Adhesive to be applied in a zigzag pattern along every channel. Joint treatment in between panels shall be Tremco illmod 600 pre compressed polyurethane foam sealant.

B. **Insulated System with Metal Channels —** Install moisture barrier over the Gypsum Board Item 4. Install galvanized Z girt channels specified by the manufacturer over the moisture barrier and the Gypsum Board Item 4. Z girt channels to be installed horizontally at a max. spacing of 24" OC. Z girt channels attached through the Gypsum Board and the moisture barrier to the Steel Studs Item 2, with screws provided by the manufacturer at a max spacing of 24 inches OC. Install mineral wool insulation between the Z girts. Maximum thickness of mineral wool insulation not to exceed 6 in. As per manufacturer's instructions install Acry Metal Channels vertically over the Z girts at a max horizontal spacing of 24 in. OC. Acrytec Panels installed on Acry channel with 1-1/4" long corrosion coated stainless steel screws at a max spacing of 24 in. OC, along with manufacturers approved adhesive (3M 540 or Tremco Vulcum 116). Adhesive to be applied in a zigzag pattern along every channel. Joint treatment in between panels to be Tremco illmod 600 pre compressed polyurethane foam sealant.

C. **Non Insulated Wood Strapping System —** Install moisture barrier over the Gypsum Board Item 4 and Install 1" x 3" wood strapping vertically at a horizontal spacing not greater than 24 inches OC., over the moisture barrier. 1" x 3" wood strapping attached through the moisture barrier and the Gypsum Board to the Steel Studs Item 2, using fasteners specified by the manufacturer and fasteners spaced max., 24 in. OC. Acrytec Panels to be installed on the 1" x 3" wood strapping using manufacturers approved stainless steel fasteners spaced at maximum 24 inches OC along with Tremco Vulcum 116 adhesive applied in a zigzag pattern along every wood strap. Joint treatment in between panels to be Tremco illmod 600 pre compressed polyurethane foam sealant.

D. **Insulated Wood Strapping System —** Install moisture barrier over the Gypsum Board Item 4. Install Extruded Polystyrene Insulation over moisture barrier, max thickness of insulation not to exceed 4 inches. Install 1" x 3" wood strapping vertically at a horizontal spacing not greater than 24 inches OC. Wood strapping attached through the Insulation, the Gypsum Board and moisture barrier to the Steel Studs Item 2 using fasteners specified by the manufacturer and fasteners spaced max. 24 in. OC. Acrytec Panels to be installed over the wood strapping using manufacturers approved stainless steel fasteners at a max spacing of 24 in. OC and Tremco Vulcum 116 adhesive applied in a zigzag pattern along every wood strap. Joint treatment in between panels to be Tremco illmod 600 pre compressed polyurethane foam sealant.
ACRYTEC PANEL INDUSTRIES — Nominal 5/8 inch thick Acrytec Panel.

*** 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 2023-02-21

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UL Product iQ™

XHBN.HW-D-0174 - Joint Systems

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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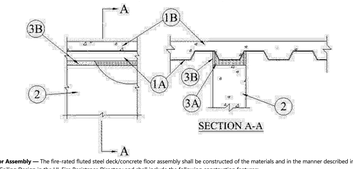
XHBN - Joint Systems

See General Information for Joint Systems

System No. HW-D-0174

October 21, 2015

Assembly Rating — 2 Hr
L Rating at Ambient - Less than 1 CFM/Ln Ft.
L Rating at 400 F - Less than 1 CFM/Ln Ft.
Nominal Joint Width - 1 in.
Class II Movement Capabilities - 25% Compression & Extension



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 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. deep galv steel fluted roof deck.

   B. **Concrete —** Min 2-1/2 in. 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 and shall include the following construction features:
   A. **Steel Roof Deck —** Max 3 in. deep galv steel fluted roof deck.

   B. **Roof Insulation —** Min 2-1/4 in. thick poured insulating concrete, as measured from the top plane of the deck.

2. **Wall Assembly —** Min 6-1/8 in. thick steel-reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***.
   See **Concrete Blocks** (CAZT) category in Fire Resistance Directory for names of manufacturers

3. **Joint System — Max separation between bottom of floor or roof and top of wall is 1 in. The joint system is designed to accommodate a max 25 percent compression or extension from its installed width.** The joint system consists of the following:
   A. **Forming Material* —** Min 4 pcf mineral wool batt insulation cut into min 5-5/8 in. wide strips, compressed approximately 33 percent in thickness to fill the max 1 in. gap between top of wall and bottom of steel floor or roof deck and recessed from both surfaces of wall to accommodate the required thickness of fill material.
   INDUSTRIAL INSULATION GROUP L L C — MinWool-1200 Safing

   JOHNS MANVILLE — Safing

   ROCK WOOL MANUFACTURING CO — Delta Board or Delta -8

   ROCKWOOL MALAYSIA SDN BHD — Type Safe

   ROCKWOOL — Type Safe

   THERMAFIBER INC — Type SAF

   B. **Fill, Void or Cavity Material* - Sealant —** Min 1/4 in. thickness of sealant installed on each side of wall between top of wall and bottom of floor or roof, flush with each surface of wall.
   3M COMPANY — FireBarrier 1000 NS

*** 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 2015-10-21

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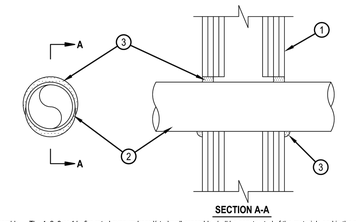
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WL 1252

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

System No. W-L-1252

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1, 2, 3 and 4 Hr (See Items 1 and 3)	F Ratings — 1, 2, 3 and 4 Hr (See Items 1 and 3)
T Rating — 0 Hr	T Rating — 0 HR.
L Rating At Ambient — Less Than 1 CFM/Sq Ft	FH Ratings — 1, 2, 3 and 4 Hr (See Items 1 and 3)
L Rating At 400 F — Less Than 1 CFM/Sq Ft	FTH Rating — 0 HR.
	L Rating At Ambient — Less Than 1 CFM/Sq Ft
	L Rating At 400 F — Less Than 1 CFM/Sq Ft



SECTION A-A

1. Wall Assembly — The 1, 2, 3 or 4 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or W400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing shall consist of steel channel studs. Steel studs to be min 3-1/2 in. (89 mm) wide spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* — Min 5/8 in. (16 mm) thick with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall or Partition Design. Max diam of opening is 5-3/4 in. (146 mm).
   The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrant — One metallic pipe, conduit or tube to be installed either concentrically or eccentrically within the firestop system. The annular space between the pipe, conduit or tube and periphery of opening shall be min 0 in. (point contact) to max 7/8 in. (22 mm). Pipe, conduit or tube to be rigidly supported on both sides of wall assembly.
   A. Steel Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit — Nom 4 in. (102 mm) diam (or smaller) rigid steel conduit.
   D. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic conduit.
   E. Copper Tubing — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
   F. Copper Pipe — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.

HILTI
Hilti Firestop Systems

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January 22, 2015

Page: 1 of 2

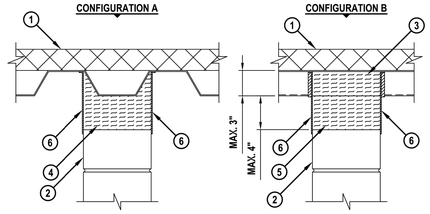
WL 1252

Classified by Underwriters

CD

ENGINEERING JUDGMENT FIRESTOP DETAIL

PROJECT : HERLONG STORAGE - JACKSONVILE,FL
CONTRACTOR : GA FIRE PROOFING
F-RATING = 1-HR., 2-HR., OR 3-HR. (SEE NOTE NO. 6 BELOW)



HILTI, Inc. Plano, Texas USA (800) 879-8000	Sheet	1 of 2	Drawing No.
Hilti Firestop Systems	Scale	9/64" = 1"	378357a
Patty Reid		Aug. 21, 2020	

Saving Lives through Innovation and Education

CD

ENGINEERING JUDGMENT FIRESTOP DETAIL

PROJECT : HERLONG STORAGE - JACKSONVILE,FL
CONTRACTOR : GA FIRE PROOFING
F-RATING = 1-HR., 2-HR., OR 3-HR. (SEE NOTE NO. 6 BELOW)

1. BUILT UP METAL ROOF DECK ASSEMBLY (NON FIRE-RATED).
2. CONCRETE WALL ASSEMBLY (1-HR., 2-HR., OR 3-HR. FIRE-RATING) :
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MINIMUM 6" THICK).
   B. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL.
3. HILTI CP 777 SPEED PLUGS FRICTION FITTED TO COMPLETELY FILL FLUTE, FLUSH WITH BOTH SIDES OF WALL. (SEE NOTE NO. 4 BELOW).
4. MINERAL WOOL SAFING (MINIMUM 4 PCF DENSITY) COMPRESSED 50%, TO COMPLETELY FILL FLUTES AND JOINT, FLUSH WITH BOTH SIDES OF THE WALL.
5. MINERAL WOOL SAFING (MINIMUM 4 PCF DENSITY) COMPRESSED 50%, FLUSH WITH WALL SURFACES.
6. MINIMUM 1/8" (WET) THICKNESS HILTI CFS-SP WB FIRESTOP JOINT SPRAY TO COMPLETELY COVER MINERAL WOOL AND TO OVERLAP MINIMUM 1/2" ONTO METAL DECK AND CONCRETE WALL.

NOTES :
1. MAXIMUM WIDTH OF JOINT = 4".
2. STEEL FLOOR UNITS MAY BE SPRAYED WITH A MINIMUM 5/16" THICKNESS TO MAXIMUM 1-3/4" THICKNESS OF UL CLASSIFIED MONOKOTE TYPE MK-6/HY FIREPROOFING MANUFACTURED BY W.R. GRACE & CO.
3. WHEN THE STEEL DECK IS COATED WITH FIREPROOFING, HILTI FIRESTOP SPRAY SHALL OVERLAP THE WALL MINIMUM 1/2" AND OVERLAP THE FIREPROOFING MINIMUM 2", ON BOTH SIDES OF THE WALL.
4. AS AN ALTERNATE TO HILTI CP 777 SPEED PLUGS, MINERAL WOOL (MIN. 4 PCF DENSITY) COMPRESSED 50% MAY BE USED.
5. T-RATING MAY NOT EQUAL F-RATING IN ACCORDANCE WITH UL 2079.
6. FIRE-RATING OF ASSEMBLY IS DEPENDENT UPON THE PERFORMANCE OF METAL ROOF DECK ASSEMBLY UNDER FIRE CONDITIONS.

THIS ENGINEERING JUDGMENT REPRESENTS A FIRESTOP SYSTEM THAT WOULD BE EXPECTED TO PASS THE STATED RATINGS IF TESTED.
(REFERENCE : UL/cUL SYSTEM NO. HW-D-1037 & HW-D-1058)

HILTI, Inc. Plano, Texas USA (800) 879-8000	Sheet	2 of 2	Drawing No.
Hilti Firestop Systems	Scale	-	378357a
Patty Reid		Aug. 21, 2020	

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FIRE-RESISTANCE DESIGN

Assembly Usage Disclaimer

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

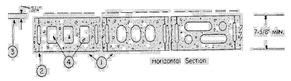
April 09, 2018

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 and EnergyShield Ply Pro

CARLISLE COATINGS & WATERPROOFING INC — Type R2+ SHEATHE

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

HUNTER PANELS — Types Xci-Class A, Xci 286

RMAX OPERATING L L C — "TSX-8500", "TSX-8510", "Thermasheath-XP", "ECOMAXci", "Thermasheath-3", "Durasheath-3"

THE DOW CHEMICAL CO — 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) and TUFF-R™ ci Insulation

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.
RMAX OPERATING L L C — "Thermasheath-SI", "ECOBASEci", "ThermaBase-CI"

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Last Updated on 2018-04-09

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CONSULTANT

Shamrock Building Systems, Inc.

NEW CONSTRUCTION FOR:
CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS
19TH LANE,VERO BEACH, FLORIDA, 32966

DRAWINGS PUBLISHED
27 APRIL 2023
CONSTRUCTION DOCUMENTS

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CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS

PROJECT 23002
PHASE ----

SHEET TITLE
UL & HILTI ASSEMBLIES

SHEET
A004

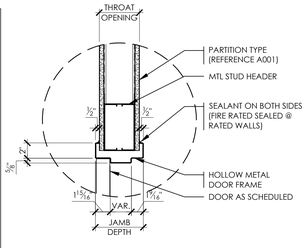
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BY JACK ST. JEOR III (AS ARCHITECT)

DOOR AND FRAME SCHEDULE

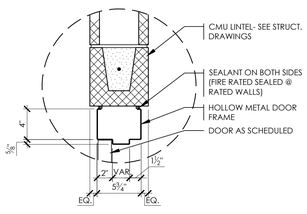
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1.100.A	5' STORAGE UNIT	E	MTL	3'-4"	7'-0"	3/4"	BY MANUF.	MTL	A051	A051			RD-01	STORAGE	PRE-FIN.	PRE-FIN.			1
1.100.B	7.5' STORAGE UNIT	E	MTL	5'-10"	7'-0"	3/4"	BY MANUF.	MTL	A051	A051			RD-01	STORAGE	PRE-FIN.	PRE-FIN.			1
1.100.C	10' STORAGE UNIT	E	MTL	8'-4"	7'-0"	3/4"	BY MANUF.	MTL	A051	A051			RD-01	STORAGE	PRE-FIN.	PRE-FIN.			1
1.101.A	LOBBY	3	ALUM	SEE ELEV.	SEE ELEV.	1 3/4"	3	ALUM	N10/A022	N14 & J04/A022	N17/A022		AL-01	ENTRY	PRE-FIN.	PRE-FIN.			4, 5
1.101.B	CART STORAGE	A	HM	3'-0"	7'-0"	1 3/4"	1	HM	N13/A021	K13/A021		1.5 HR	6.0	STOREROOM	PAINT	PAINT	2	ELEVATOR EQUIPMENT	
1.102.A	SALES OFFICE	D	ALUM.	3'-0"	7'-0"	1 3/4"	5	ALUM	E10/A022	E14/A022	N14/A022		AL-01	ENTRY	PRE-FIN.	PRE-FIN.			3
1.102.B	SALES OFFICE	D	ALUM.	3'-0"	7'-0"	1 3/4"	6	ALUM	G10 & G13/A021	E10 & E13/A021	K15/A021		AL-01	OFFICE	PRE-FIN.	PRE-FIN.	2	OFFICE	3
1.102.C	SALES OFFICE	C	HM	3'-0"	7'-0"	1 3/4"	1	HM	N10/A021	K10/A021	K15/A021		01	OFFICE	PAINT	PAINT	2	OFFICE	
1.103.A	BREAKROOM	C	HM	3'-0"	7'-0"	1 3/4"	1	HM	N10/A021	K10/A021	G15/A021		01	OFFICE	PAINT	PAINT	2	OFFICE	
1.104.A	UTILITY ROOM	A	HM	3'-0"	7'-0"	1 3/4"	1	HM	N10/A021	K10/A021	N15/A021		05	STOREROOM	PAINT	PAINT	2	UTILITY	
1.105.A	TOILET	A	HM	3'-0"	7'-0"	1 3/4"	1	HM	N10/A021	K10/A021	E15/A021		04	PRIVACY	PAINT	PAINT	3	RESTROOM	
1.107.A	TOILET	A	HM	3'-0"	7'-0"	1 3/4"	1	HM	N10/A021	K10/A021	C15/A022		04	PRIVACY	PAINT	PAINT	3	RESTROOM	
1.109.A	AUX. LOBBY	4	ALUM.	SEE ELEV.	SEE ELEV.	1 3/4"	4	ALUM	N10/A022	N14 & J04/A022	N17/A022		AL-01	ENTRY	PRE-FIN.	PRE-FIN.			4, 5
1.114.A	ELECTRICAL ROOM	A	HM	3'-0"	7'-0"	1 3/4"	1	HM	N10/A021	K10/A021		1.5 HR	06	STOREROOM	PAINT	PAINT	2	ELECTRICAL ROOM	
1.115.A	SPRINKLER RISER ROOM	A	HM	3'-0"	7'-0"	1 3/4"	1	HM	B01/A022	A10 & A14/A022	A17/A022		07	STOREROOM	PAINT	PAINT	2	RISER ROOM	2
1.117.A	CART STORAGE	A	HM	3'-0"	7'-0"	1 3/4"	1	HM	N13/A021	K13/A021		1.5 HR	6.0	STOREROOM	PAINT	PAINT	2	ELEVATOR EQUIPMENT	
2.100.A	5' STORAGE UNIT	E	MTL	3'-4"	7'-0"	3/4"	BY MANUF.	MTL	A051	A051			RD-01	STORAGE	PRE-FIN.	PRE-FIN.			1
2.100.C	10' STORAGE UNIT	E	MTL	8'-4	7'-0"	3/4"	BY MANUF.	MTL	A051	A051			RD-01	STORAGE	PRE-FIN.	PRE-FIN.			1
2.104.A	STAIR 1	B	HM	3'-0"	7'-0"	1 3/4"	1	HM	N01/A022	N04/A022	B04/A022	1 HR	7.0	STOREROOM	PAINT	PAINT	3	EXIT STAIRS	2
2.104.B	STAIR 2	B	HM	3'-0"	7'-0"	1 3/4"	1	HM	N01/A022	N04/A022	B04/A022	1 HR	7.0	STOREROOM	PAINT	PAINT	3	EXIT STAIRS	2
2.112.A	TOILET	A	HM	3'-0"	7'-0"	1 3/4"	1	HM	N10/A021	K10/A021	C10/A022		04	PRIVACY	PAINT	PAINT	3	RESTROOM	
3.100.A	5' STORAGE UNIT	E	MTL	3'-4"	7'-0"	3/4"	BY MANUF.	MTL	A051	A051			RD-01	STORAGE	PRE-FIN.	PRE-FIN.			1
3.100.B	7.5' STORAGE UNIT	E	MTL	5'-10"	7'-0"	3/4"	BY MANUF.	MTL	A051	A051			RD-01	STORAGE	PRE-FIN.	PRE-FIN.			1
3.100.C	10' STORAGE UNIT	E	MTL	8'-4	7'-0"	3/4"	BY MANUF.	MTL	A051	A051			RD-01	STORAGE	PRE-FIN.	PRE-FIN.			1
3.104.A	STAIR 1	B	HM	3'-0"	7'-0"	1 3/4"	1	HM	N01/A022	N04/A022	B04/A022	1 HR	7.0	STOREROOM	PAINT	PAINT	3	EXIT STAIRS	2
3.104.B	STAIR 2	B	HM	3'-0"	7'-0"	1 3/4"	1	HM	N01/A022	N04/A022	B04/A022	1 HR	7.0	STOREROOM	PAINT	PAINT	3	EXIT STAIRS	2

REMARKS:

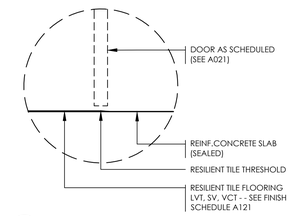
1. STORAGE UNIT DOORS, FRAMES & HARDWARE PROVIDED BY STORAGE UNIT SYSTEM MANUFACTURER.
2. INSULATED CORE HOLLOW METAL DOOR.
3. MEDIUM STYLE STOREFRONT ENTRANCE DOOR
4. COORD. W/ ELECT. TO PROVIDE POWER FOR DOOR & SENSOR.
5. EMERGENCY BREAKOUT SLIDING DOOR(S).



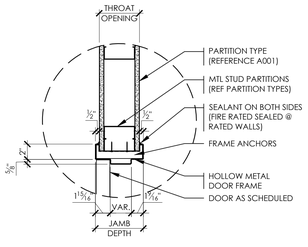
N10 / A021 — HM DOOR HEAD DETAIL @ MTL STUD PART. — 1 1/2" = 1'-0"



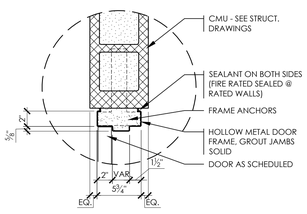
N13 / A021 — HM METAL DOOR DETAIL @ CMU — 1 1/2" = 1'-0"



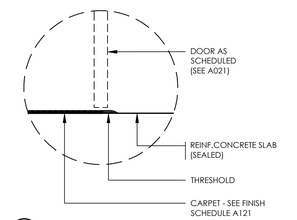
N15 / A021 — DOOR SILL DETAIL @ CONCRETE - RESILIENT TILE — 1 1/2" = 1'-0"



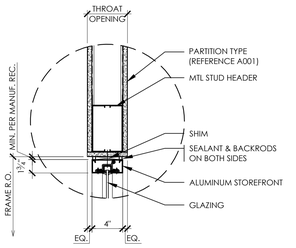
K10 / A021 — HM DOOR JAMB DETAIL @ MTL STUD PART. — 1 1/2" = 1'-0"



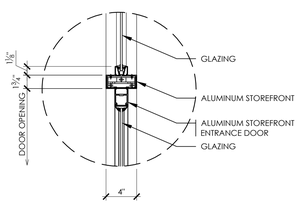
K13 / A021 — HM DOOR JAMB DETAIL @ CMU — 1 1/2" = 1'-0"



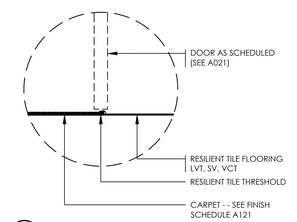
K15 / A021 — DOOR SILL DETAIL @ CONCRETE - CARPET — 1 1/2" = 1'-0"



G10 / A021 — STOREFRONT HEAD DETAIL — 1 1/2" = 1'-0"

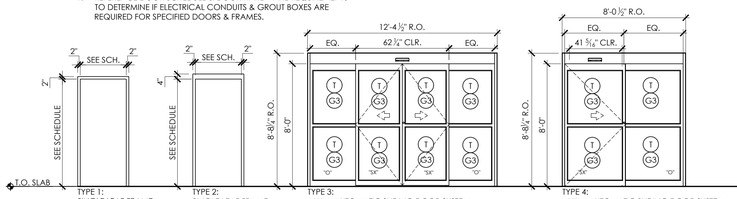


G13 / A021 — STOREFRONT DOOR HEAD DETAIL — 1 1/2" = 1'-0"

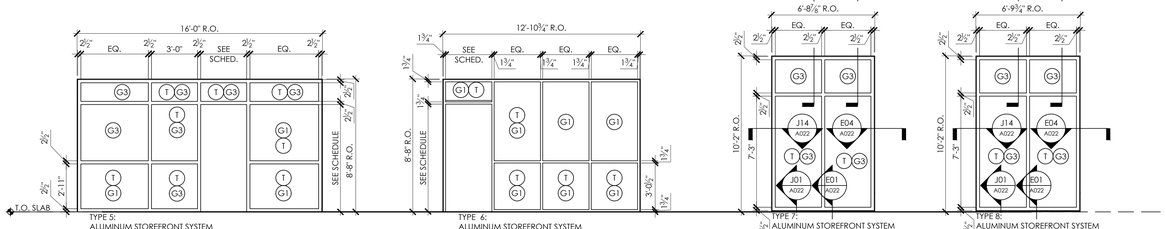


G15 / A021 — DOOR SILL DETAIL @ CARPET - RESILIENT TILE — 1 1/2" = 1'-0"

NOTE:
1. REFERENCE DOOR SCHEDULE & DOOR HARDWARE REQUIREMENTS TO DETERMINE IF ELECTRICAL CONDUITS & GROUT BOXES ARE REQUIRED FOR SPECIFIED DOORS & FRAMES.



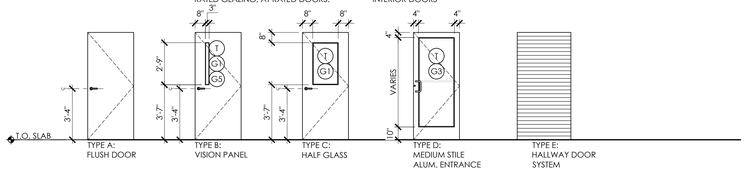
TYPE 1: SINGLE LEAF FRAME
TYPE 2: SINGLE LEAF FRAME W/ 4" HEAD
TYPE 3: ALUM. AUTOMATIC SLIDING DOOR SYSTEM (DESIGN BASIS: STANLEY DURA-GLIDE 2000 W/ BREAK-OUT PANELS, 1" INSUL. LOW-E CLEAR SAFETY GLASS)
TYPE 4: ALUM. AUTOMATIC SLIDING DOOR SYSTEM (DESIGN BASIS: STANLEY DURA-GLIDE 3000 SS W/ BREAK-OUT PANEL, 1" INSUL. LOW-E CLEAR SAFETY GLASS)



TYPE 5: ALUMINUM STOREFRONT SYSTEM (BASIS OF DESIGN YKK YHS 50 FI, 1 3/4" INSUL. LOW-E CLEAR SAFETY GLASS)
TYPE 6: ALUMINUM STOREFRONT SYSTEM (BASIS OF DESIGN KAWNEER TRIFAB 400)
TYPE 7: ALUMINUM STOREFRONT SYSTEM (BASIS OF DESIGN YKK YHS 50 FI, 1 5/16" INSUL. LOW-E CLEAR SAFETY GLASS)
TYPE 8: ALUMINUM STOREFRONT SYSTEM (BASIS OF DESIGN YKK YHS 50 FI, 1 5/16" INSUL. LOW-E CLEAR SAFETY GLASS)

C01 / A021 — DOOR & WINDOW FRAME ELEVATIONS — 1/4" = 1'-0"

TYPE B NOTE: USE G5, NON-WIRE FIRE RATED GLAZING, AT RATED DOORS.
TYPE D NOTE: USE G1 GLAZING AT INTERIOR DOORS

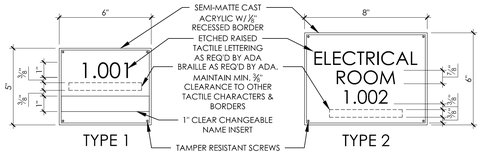


TYPE A: FLUSH DOOR
TYPE B: VISION PANEL
TYPE C: HALF GLASS
TYPE D: MEDIUM STILE ALUM. ENTRANCE
TYPE E: HALLWAY DOOR SYSTEM

A01 / A021 — DOOR LEAF ELEVATIONS — 1/4" = 1'-0"

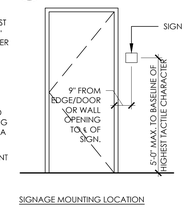
GENERAL NOTES FOR SIGNAGE:

1. ALL SIGNAGE COPY SHALL BE VERIFIED & APPROVED BY ARCHITECT & OWNER PRIOR TO FABRICATION & INSTALLATION.
2. SEE DOOR SCHEDULE FOR SCHEDULE OF DOOR SIGNAGE TYPES & COPY.



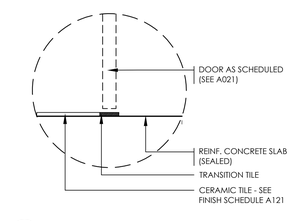
TYPE 1
TYPE 2
TYPE 3

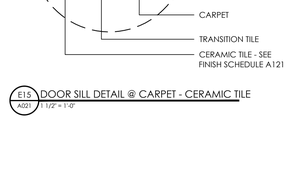
A07 / A021 — TYPICAL DOOR SIGNAGE DETAILS — 3" = 1'-0"



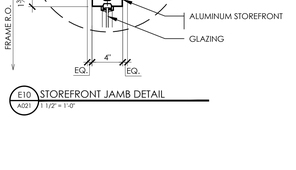
SIGNAGE MOUNTING LOCATION

C15 / A021 — DOOR SILL DETAIL @ CERAMIC TILE - CONCRETE — 1 1/2" = 1'-0"

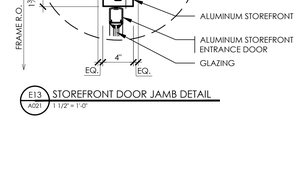




E15 / A021 — DOOR SILL DETAIL @ CARPET - CERAMIC TILE — 1 1/2" = 1'-0"



E10 / A021 — STOREFRONT JAMB DETAIL — 1 1/2" = 1'-0"



E13 / A021 — STOREFRONT DOOR JAMB DETAIL — 1 1/2" = 1'-0"

DOOR GENERAL NOTES

A. EXTERIOR HOLLOW METAL DOORS & FRAMES SHALL BE INSULATED UNLESS NOTED OTHERWISE.
B. REFERENCE TYPICAL MANUFACTURER EIFS DETAILS ON SHEET A022 FOR MANUFACTURER DETAIL REQUIREMENTS FOR DOOR AND WINDOW ASSEMBLIES.

DOOR HARDWARE SETS

HARDWARE SET NOTES:
A. PROVIDE HARDWARE FROM DESIGNATED HARDWARE SUPPLIERS REFERENCED, OR APPROVED EQUALS, PBB= PBB INC., CRPI = CAI-ROYAL PRODUCTS, INC., HC = HAGER COMPANIES, DONJ = DON-JO MANUFACTURING, LSDA = LOCKSMITH DEALERS OF AMERICA.
B. UNLESS NOTED OTHERWISE PROVIDE TYPE " LB " THUMB TURNS; WHICH ARE 40% LARGER THAN STANDARD THUMB TURNS TO MEET TOUGHER ADA REQUIREMENTS.

SET 1.0
DESCRIPTION: INTERIOR DOOR
FUNCTION: ENTRANCE / OFFICE LOCK

3 HINGES: BB81 4.5" X 4.5" BY PBB, US26D
1 LOCKSET: CGN00 X GND-234 X ASA BY CRPI, US26D
1 CLOSER, 5200 X MLT X 1-6 X 5203 X FC BY HC, ALM
1 FLOOR STOP: 242F BY HC, US26D
3 SILENCERS: 1608 BY DONJ, GRAY
1 MASTER KEY

SET 2.0
DESCRIPTION: EXTERIOR HM ENTRY / EXIT PAIR
FUNCTION: STOREROOM

8 HINGES: BB81 4.5" X 4.5" X NRP BY PBB, US26D
2 FLUSH BOLTS: 282D X 25" BY HC, US26D/INACTIVE
1 MORTISE LOCKSET: M4808D-5S BY CRPI, US26D/ACTIVE
1 CLOSER: 5100 X PAR X 1-6 X 5108 X HDHOCS X MC BY HC, ALM
2 ARMOR PLATE: 1985 X 8" X 34" BY HC, US32D
1 WEATHERSTRIPPING: 891SV X 72" X 72" BY HC, MIL
2 SWEEP STRIPS: 750SN X 36" BY HC, CLR
1 THRESHOLD: 412S X 72" BY HC, MIL
1 DRIP CAP: 810S X 76" BY HC, MIL
1 MASTER KEY

SET 3.0
DESCRIPTION: INTERIOR RATED DOOR
FUNCTION: PASSAGE

3 HINGES: BB81 4.5" X 4.5" BY PBB, US26D
1 PASSAGE SET: GN30 X GND-234 X ASA BY CRPI, US26D
1 CLOSER, 5200 X MLT X 1-6 X 5203 X FC BY HC, ALM
1 KICK PLATE: 1985 X 8" X 34" BY HC, US 32D
1 FLOOR STOP: 242F BY HC, US26D
1 WEATHERSTRIPPING: 736 BY HC, CHARCOAL

SET 4.0
DESCRIPTION: INTERIOR PRIVACY DOOR
FUNCTION: PRIVACY

3 HINGES: BB81 4.5" X 4.5" BY PBB, US26D
1 PRIVACY SET: CGN20 X GND-234 X ASA BY CRPI, US26D
1 KICK PLATE: 1985 X 8" X 34" BY HC, US 32D
1 FLOOR STOP: 242F BY HC, US26D
3 SILENCERS: 1608 BY DONJ, GRAY

SET 5.0
DESCRIPTION: INTERIOR STORAGE/UTILITY DOOR
FUNCTION: STOREROOM

3 HINGES: BB81 4.5" X 4.5" BY PBB, US26D
1 LOCKSET: CGN05 X GND-234 X ASA BY CRPI, US26D
1 KICK PLATE: 1985 X 8" X 34" BY HC, US 32D
1 FLOOR STOP: 242F BY HC, US26D
3 SILENCERS: 1608 BY DONJ, GRAY
1 MASTER KEY

SET 6.0
DESCRIPTION: INTERIOR RATED STOREROOM DOOR
FUNCTION: STOREROOM

3 HINGES: BB81 4.5" X 4.5" BY PBB, US26D
1 LOCKSET: CGN05 X GND-234 X ASA BY CRPI, US26D
1 KICK PLATE: 1985 X 8" X 34" BY HC, US 32D
1 FLOOR STOP: 242F BY HC, US26D
3 SILENCERS: 1608 BY DONJ, GRAY
1 MASTER KEY

SET 7.0
DESCRIPTION: EXTERIOR EGRESS DOOR
FUNCTION: STOREROOM

3 HINGES: BB81 4.5" X 4.5" BY PBB, US26D
1 MORTISE LOCKSET: NM8080-SS BY CRPI, US26D/ACTIVE
1 CLOSER: 5100 X MLT X 1-6 X 5103 X HDS X MC BY HC, ALM
1 WEATHERSTRIPPING: 891SV X 84" X 84" BY HC, MIL
1 SWEEP STRIPS: 750SN X 36" BY HC, CLR
1 THRESHOLD: 412S X 36" BY HC, MIL
1 DRIP CAP: 810S X 40" BY HC, MIL
1 MASTER KEY

SET AL-01
DESCRIPTION: ALUMINUM STOREFRONT DOORS
FUNCTION: EGRESS/ENTRANCE

1 CYLINDER-MORTISE: M1181SCC 5 PIN -AR CAM BY LSDA, 626
1 MASTER KEY

ALL OTHER HARWARE TO BE PROVIDED BY STOREFRONT SUPPLIER. CYLINERS TO HAVE ADAMS-RITE CAM. CONTRACTOR VERIFY THAT CYLINDER IS COMPATIBLE WITH STOREFRONT HARDWARE.

SET RD-01
DESCRIPTION: ROLL-UP STORAGE UNIT DOORS
FUNCTION: STORAGE

ALL HARDWARE BY MANUFACTURER. ALL DOORS ARE TO BE KEYED DIFFERENTLY FROM ONE ANOTHER.

WINDOW TYPE LEGEND

W1 WINDOW TYPE KEY SYMBOL

WINDOW & GLAZING NOTES

A. ALL WINDOW SYSTEMS SHOWN ON THIS SHEET ARE EITHER ALUMINUM STOREFRONT OR CURTAIN WALL WINDOW SYSTEMS.
B. ALL WINDOW FRAMES IN EXTERIOR WALLS SHALL BE THERMALLY BROKEN WITH RECEIVE INSULATED GLAZING UNITS.
C. ALL GLAZING UNITS LOCATED WITHIN 24" OF DOOR(S) AND/OR WHERE BOTTOM EDGE IS LESS THAN 18" ABOVE THE FINISHED FLOOR SHALL BE TEMPERED.
D. PROVIDE CONTINUOUS SEALANT JOINTS ON ALL SIDES OF WINDOW SYSTEMS BETWEEN FRAME & DIS-SIMILAR MATERIALS. SIZE & DEPTH OF JOINT TO BE DETERMINED BY MANUFACTURERS RECOMMENDATIONS.
E. ALL PRE-FINISHED ALUMINUM JAMB EXTENSIONS & EXPOSED FLASHINGS TO BE SUPPLIED BY WINDOW SYSTEM MANUFACTURER. COLORS ARE TO MATCH WINDOW SYSTEM.

GLAZING TYPE LEGEND

T TEMPERED GLASS
G1 1/4" CLEAR, UNCOATED GLAZING.
G2 UNCOATED, CLEAR, 1/4" INSULATED GLAZING UNIT.
G3 1 5/16" CLEAR-IMPACT INSULATED GLAZING (1/4" CLEAR ON VNE-53 #2 | AIR 1/2" | 1/4" CLEAR, 0.060" CLEAR PVB #4, 1/4" CLEAR)
G4 1 5/16" SPANDREL-IMPACT INSULATED GLAZING (1/4" CLEAR, 0.060" CLEAR PVB #2, 1/4" CLEAR | AIR 1/2" | 1/4" CLEAR W/ BLACK SPANDREL #6)
G5 CLEAR, FIRE RATED GLAZING

ARCHITECT
smith•boland ARCHITECTS
531 ROSELANE STREET, SUITE 310
MARIETTA, GEORGIA 30060
OFFICE 770.435.3080
E-MAIL INFO@SMITHBOLAND.COM
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SEAL
STATE OF FLORIDA · MICHAEL P. BOLAND · Michael Patrick Boland · AR101741 · REGISTERED ARCHITECT

CONSULTANT

Shamrock Building Systems, Inc.

NEW CONSTRUCTION FOR:
CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS
19TH LANE,VERO BEACH, FLORIDA, 32966

DRAWINGS PUBLISHED
27 APRIL 2023 CONSTRUCTION DOCUMENTS
⚠1 17 JUNE, 2025 BULLETIN NO. 01

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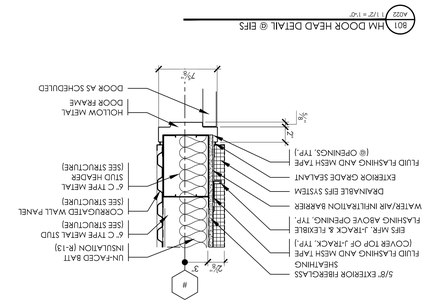
CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS

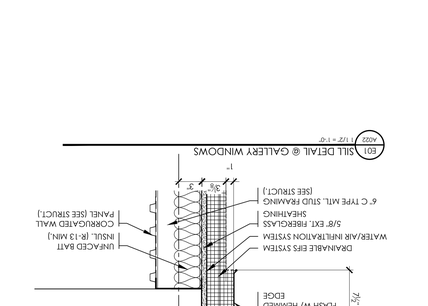
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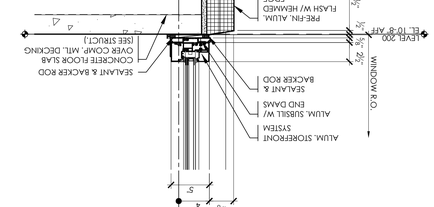
SHEET TITLE
DOOR SCHEDULE, ELEVATIONS & DETAILS

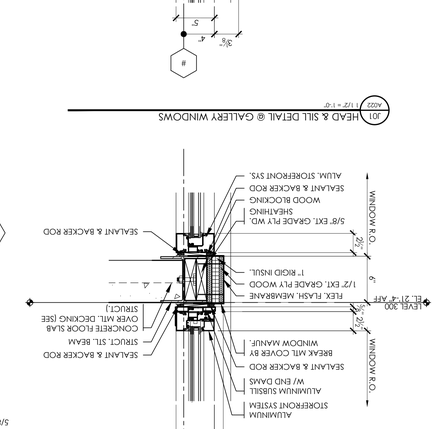
SHEET
A021

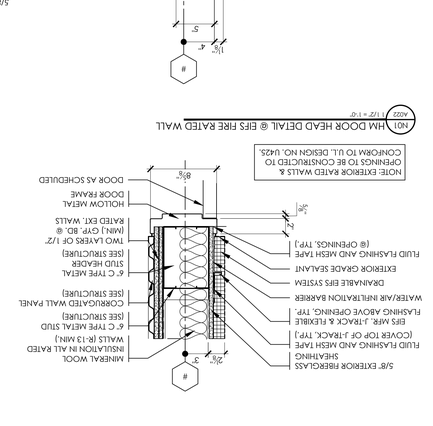
PLOTTED ON 6/17/2025
SM-ARCHITECTURE-A-(A021)-DOOR.RVT







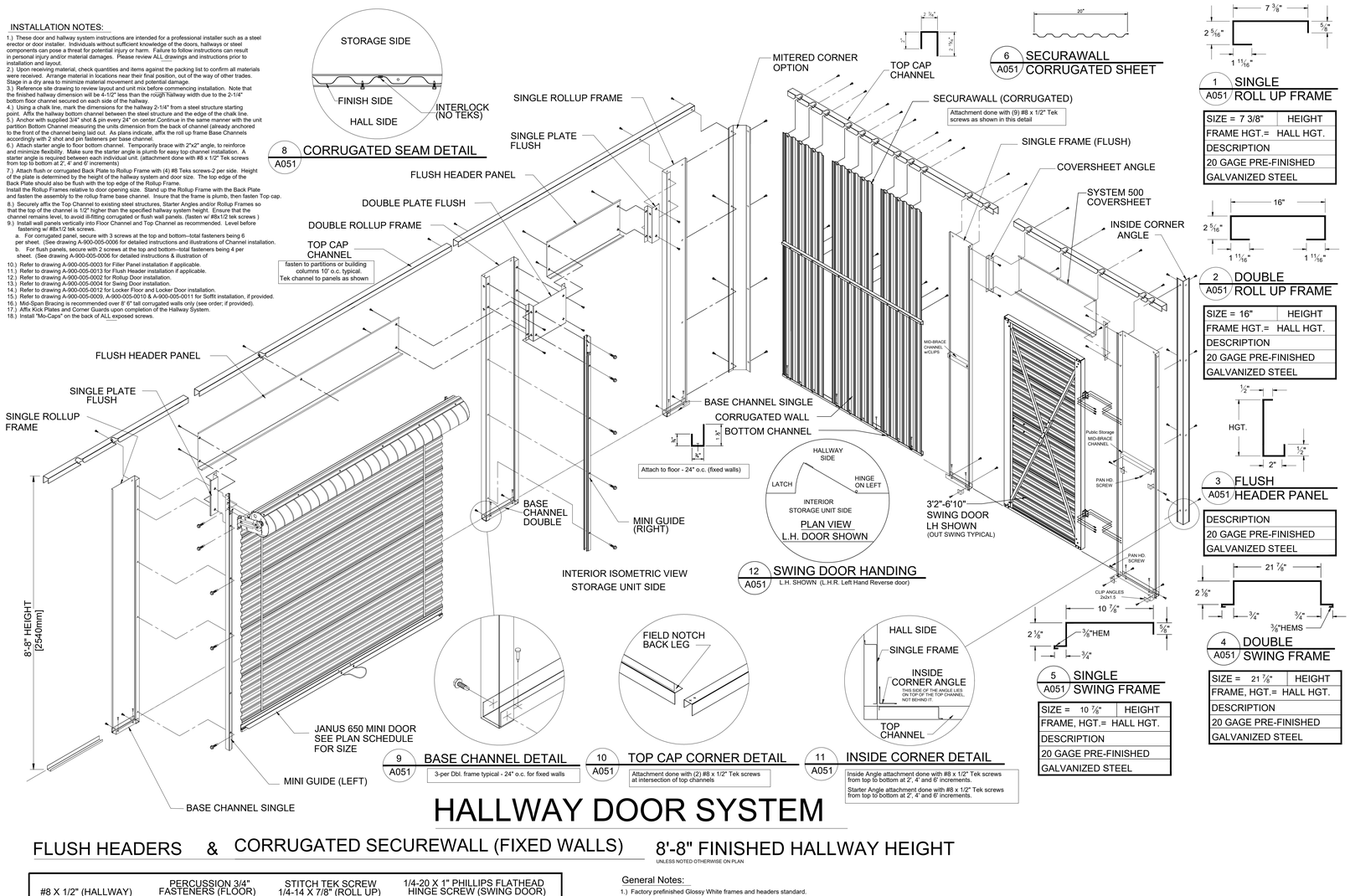




J00 HOLLOW METAL DOOR SILL DETAIL

INSTALLATION NOTES:

1.) These door and hallway system instructions are intended for a professional installer such as a steel erector or door installer. Individuals without sufficient knowledge of the doors, hallways or steel components can pose a threat for potential injury or harm. Failure to follow instructions can result in personal injury and/or material damages. Please review ALL drawings and instructions prior to installation and layout.
2.) Upon receiving material, check quantities and items against the packing list to confirm all materials were received. Arrange material in locations near their final position, out of the way of other trades. Stage in a dry area to minimize material movement and potential damage.
3.) Reference site drawing to review layout and unit mix before commencing installation. Note that the finished hallway dimension will be 4-1/2" less than the rough hallway width due to the 2-1/4" bottom floor channel secured on each side of the hallway.
4.) Using a chalk line, mark the dimensions for the hallway 2-1/4" from a steel structure starting point. Affix the hallway bottom channel between the steel structure and the edge of the chalk line.
5.) Anchor with supplied 3/4" shot & pin every 24" on center.Continue in the same manner with the unit partition Bottom Channel measuring the units dimension from the back of channel (already anchored to the front of the channel being laid out. As plans indicate, affix the roll up frame Base Channels accordingly with 2 shot and pin fasteners per base channel.
6.) Attach starter angle to floor bottom channel. Temporarily brace with 2"x2" angle, to reinforce and minimize flexibility. Make sure the starter angle is plumb for easy top channel installation. A starter angle is required between each individual unit. (attachment done with #8 x 1/2" Tek screws from top to bottom at 2', 4' and 6' increments)
7.) Attach flush or corrugated Back Plate to Rollup Frame with (4) #8 Teks screws-2 per side. Height of the plate is determined by the height of the hallway system and door size. The top edge of the Back Plate should also be flush with the top edge of the Rollup Frame.
Install the Rollup Frames relative to door opening size. Stand up the Rollup Frame with the Back Plate and fasten the assembly to the rollup frame base channel. Insure that the frame is plumb, then fasten Top cap.
8.) Securely affix the Top Channel to existing steel structures, Starter Angles and/or Rollup Frames so that the top of the channel is 1/2" higher than the specified hallway system height. Ensure that the channel remains level, to avoid ill-fitting corrugated or flush wall panels. (fasten w/ #8x1/2 tek screws)
9.) Install wall panels vertically into Floor Channel and Top Channel as recommended. Level before fastening w/ #8x1/2 tek screws.
   a. For corrugated panel, secure with 3 screws at the top and bottom--total fasteners being 6 per sheet. (See drawing A-900-005-0006 for detailed instructions and illustrations of Channel installation.
   b. For flush panels, secure with 2 screws at the top and bottom--total fasteners being 4 per sheet. (See drawing A-900-005-0006 for detailed instructions & illustration of
10.) Refer to drawing A-900-005-0003 for Filler Panel installation if applicable.
11.) Refer to drawing A-900-005-0013 for Flush Header installation if applicable.
12.) Refer to drawing A-900-005-0002 for Rollup Door installation.
13.) Refer to drawing A-900-005-0004 for Swing Door installation.
14.) Refer to drawing A-900-005-0012 for Locker Floor and Locker Door installation.
15.) Refer to drawing A-900-005-0009, A-900-005-0010 & A-900-005-0011 for Soffit installation, if provided.
16.) Mid-Span Bracing is recommended over 8' 6" tall corrugated walls only (see order; if provided).
17.) Affix Kick Plates and Corner Guards upon completion of the Hallway System.
18.) Install "Mo-Caps" on the back of ALL exposed screws.



8 A051 CORRUGATED SEAM DETAIL

6 A051 SECURAWALL CORRUGATED SHEET

1 A051 SINGLE ROLL UP FRAME

SIZE = 7 3/8"	HEIGHT
FRAME HGT.=	HALL HGT.
DESCRIPTION	
20 GAGE PRE-FINISHED	
GALVANIZED STEEL	

2 A051 DOUBLE ROLL UP FRAME

SIZE = 16"	HEIGHT
FRAME HGT.=	HALL HGT.
DESCRIPTION	
20 GAGE PRE-FINISHED	
GALVANIZED STEEL	

3 A051 FLUSH HEADER PANEL

DESCRIPTION
20 GAGE PRE-FINISHED
GALVANIZED STEEL

4 A051 DOUBLE SWING FRAME

SIZE = 21 7/8"	HEIGHT
FRAME, HGT.=	HALL HGT.
DESCRIPTION	
20 GAGE PRE-FINISHED	
GALVANIZED STEEL	

5 A051 SINGLE SWING FRAME

SIZE = 10 7/8"	HEIGHT
FRAME, HGT.=	HALL HGT.
DESCRIPTION	
20 GAGE PRE-FINISHED	
GALVANIZED STEEL	

12 A051 SWING DOOR HANDING
L.H. SHOWN (L.H.R. Left Hand Reverse door)

9 A051 BASE CHANNEL DETAIL
3-per Dbl. frame typical - 24" o.c. for fixed walls

10 A051 TOP CAP CORNER DETAIL
Attachment done with (2) #8 x 1/2" Tek screws at intersection of top channels

11 A051 INSIDE CORNER DETAIL
Inside Angle attachment done with #8 x 1/2" Tek screws from top to bottom at 2', 4' and 6' increments.
Starter Angle attachment done with #8 x 1/2" Tek screws from top to bottom at 2', 4' and 6' increments.

HALLWAY DOOR SYSTEM

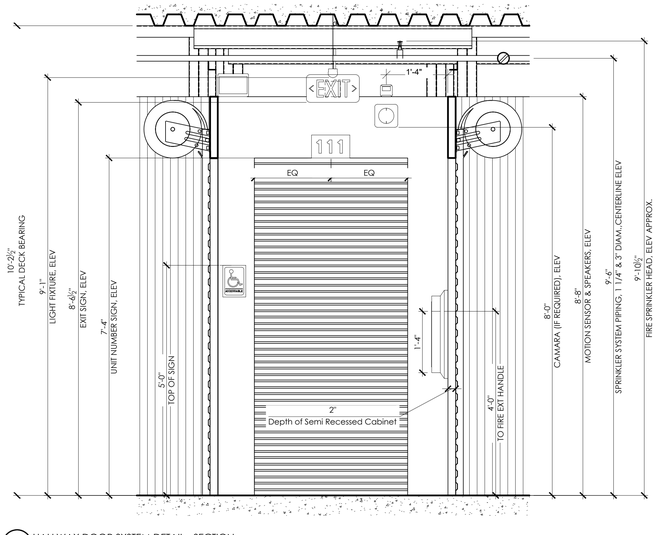
FLUSH HEADERS & CORRUGATED SECUREWALL (FIXED WALLS) 8'-8" FINISHED HALLWAY HEIGHT

UNLESS NOTED OTHERWISE ON PLAN

#8 X 1/2" (HALLWAY)	PERCUSSION 3/4" FASTENERS (FLOOR)	STITCH TEK SCREW 1/4-14 X 7/8" (ROLL UP)	1/4-20 X 1" PHILLIPS FLATHEAD HINGE SCREW (SWING DOOR)

General Notes:
1.) Factory prefinished Glossy White frames and headers standard.
2.) Non Load bearing hallway storage unit system shown.

A01 / A051 JANUS HALLWAY DOOR SYSTEM
NTS



A14 / A051 HALLWAY DOOR SYSTEM DETAIL - SECTION
3/4" = 1'-0"

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STATE OF FLORIDA MICHAEL P. BOLAND REGISTERED ARCHITECT
Michael Patrick Boland
AR101741

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19TH LANE VERO BEACH, FLORIDA, 32966

DRAWINGS PUBLISHED
27 APRIL 2023
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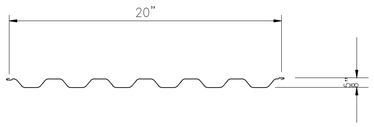
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CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS

PROJECT 23002
PHASE ----

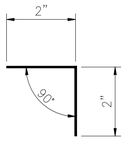
SHEET TITLE
HALLWAY DOOR SYSTEM DETAILS

SHEET
A051

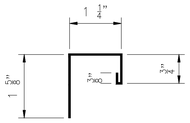


CORRUGATED SHEET PROFILE

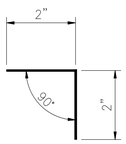
MATERIAL:
26 GAGE GALVALUME STEEL



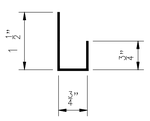
TOP ANGLE PROFILE
20 GAGE STEEL



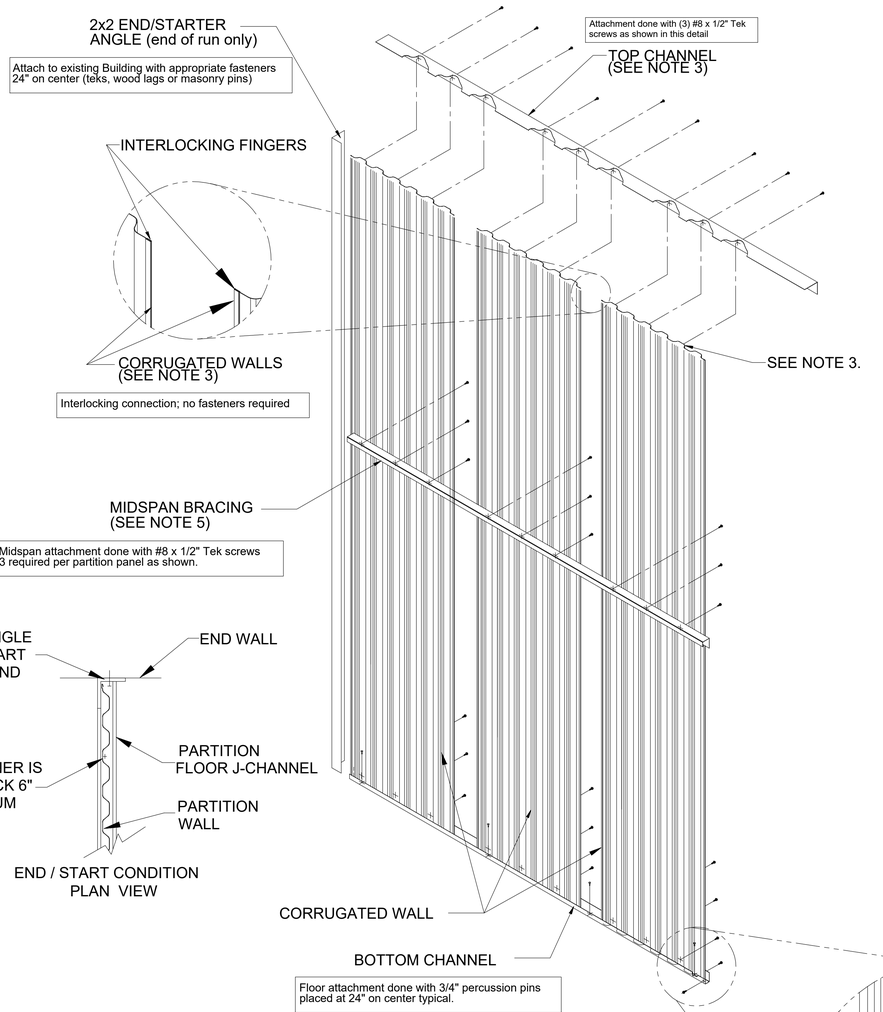
MIDSPAN CHANNEL PROFILE
20 GAGE STEEL

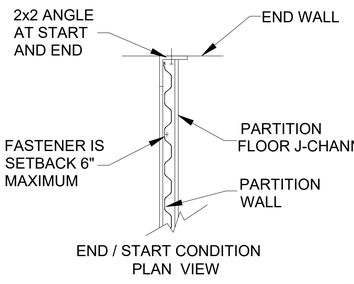


STARTER AND END ANGLE
20 GAGE STEEL



BOTTOM CHANNEL PROFILE
20 GAGE STEEL

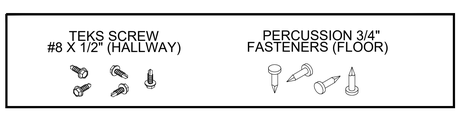




Rear View

Unit Dividing Partition Assembly

NON LOAD BEARING



A01 / A052 UNIT DIVIDING PARTITION ASSEMBLY DETAILS
NTS

NOTES:

1) FASTEN THE BOTTOM CHANNEL TO THE FLOOR 24" OC USING AIR, BUTANE OR POWDER ACTUATED FASTENERS.

2) CONNECT THE TOP ANGLE TO THE HALLWAY SYSTEM AND 2x2 MESH BRACING ANGLES WITH TEK SCREW FASTENERS.

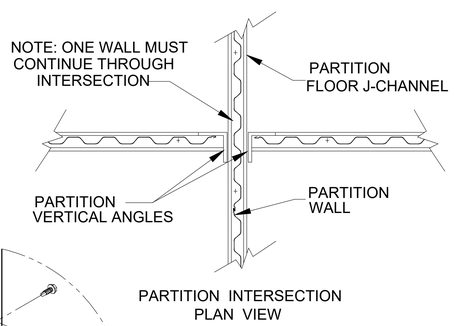
3) INSERT THE CORRUGATED WALL PANELS INTO THE TOP ANGLE AND BOTTOM CHANNEL. SLIDE INTERLOCKING "FINGERS" OF THE CORRUGATED UNTIL SECURE AND FASTEN THE TOP OF THE CORRUGATED WALL SECTIONS TO THE TOP ANGLE'S OUTER LIP USING TEKS SCREWS (AS SHOWN IN THE REAR VIEW).

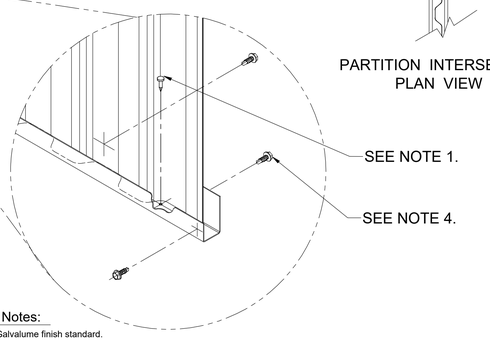
4) SECURE THE BOTTOM OF THE CORRUGATED WALL SECTIONS TO THE BOTTOM CHANNEL'S FRONT FACE USING TEKS SCREWS (AS SHOWN IN REAR VIEW).

5) SECURE THE MIDSPAN BRACING CHANNEL ACROSS THE BACK OF THE CORRUGATED WALL SECTIONS USING TEKS SCREWS (AS SHOWN IN REAR VIEW).

6) SECURITY MESH 2x2x16gage Galvanized WWF SUPPORTED WITH 2x2x120 ANGLES 60" OC. TOP OF MESH TO BE 18" MINIMUM BELOW SPRINKLER HEAD DIFFUSERS.

7) AT LEVEL 300 ONLY, PROVIDE SECURITY MESH 4x4x10 gage Galvanized WWF SUPPORTED WITH 2x2x120 ANGLES 60" OC. TOP OF MESH TO BE 18" MINIMUM BELOW SPRINKLER HEAD DIFFUSERS.

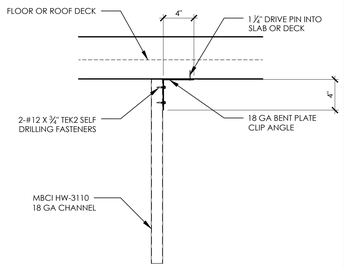




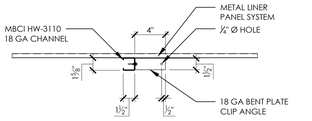
General Notes:
1.) Factory Galvalume finish standard.
2.) Non Load bearing Unit dividing system shown.

8'-8" FINISHED PARTITION HEIGHT

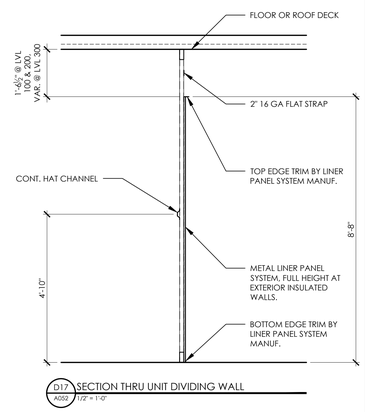
UNLESS NOTED OTHERWISE ON PLAN



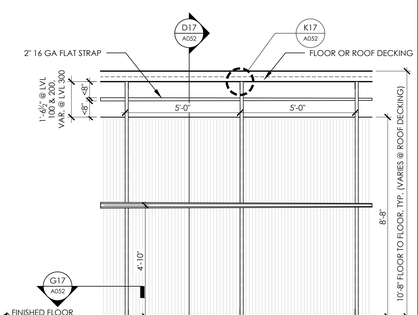
K17 / A052 UNIT WALL DECK ATTACHMENT DETAIL
1 1/2" = 1'-0"



G17 / A052 UNIT WALL FLOOR ATTACHMENT
1 1/2" = 1'-0"



D17 / A052 SECTION THRU UNIT DIVIDING WALL
1/2" = 1'-0"



A16 / A052 NON-LOAD BEARING STORAGE UNIT DIVIDING WALL ELEVATION
3/8" = 1'-0"

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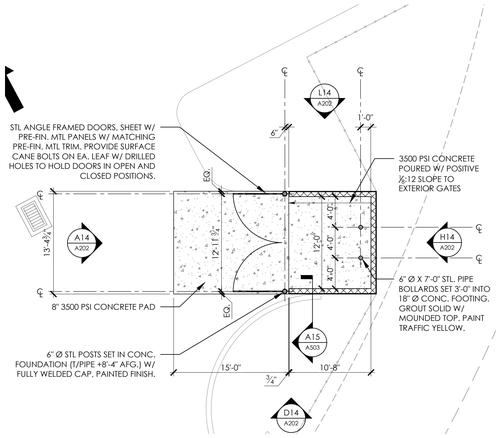
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CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS

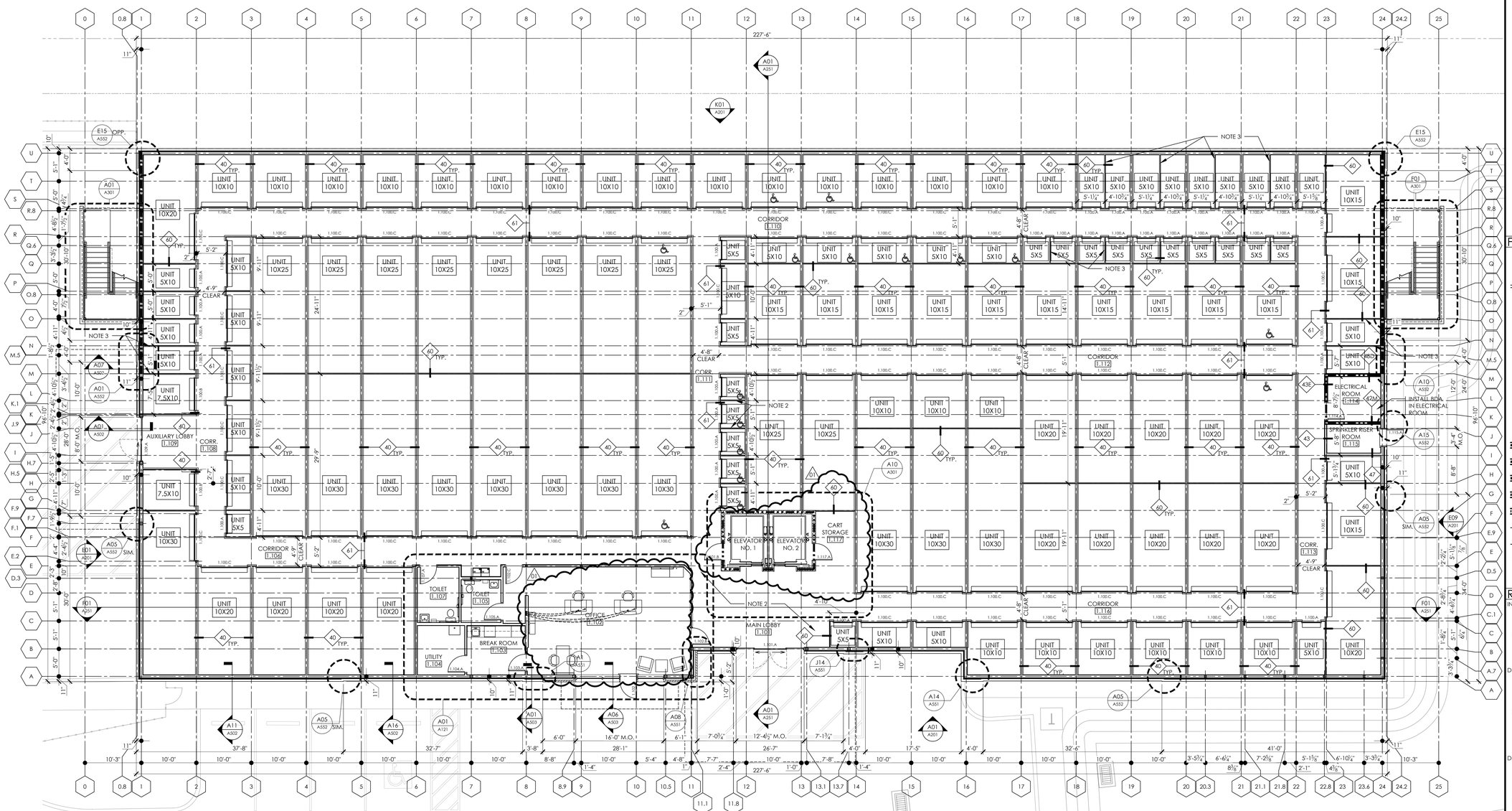
PROJECT 23002
PHASE ----

SHEET TITLE
UNIT DIVIDING PARTITION ASSEMBLY DETAILS

SHEET
A052



L01 A101 DUMPSTER ENCLOSURE PLAN
1/8" = 1'-0"



A01 A101 LEVEL 100 FLOOR PLAN - BUILDING A
1/8" = 1'-0"

FLOOR PLAN NOTES

NOTE #

1. REFERENCE SHEET A051 FOR HALLWAY AND HALLWAY DOOR SYSTEM DETAILS FOR STORAGE UNIT WALLS THAT ABUT A PUBLIC SPACE.
2. PROVIDE 48" TALL DIAMOND PLATING ON ALL CORRUGATED & LOBBY WALLS LOCATED WITHIN A 25' RADIUS OF THE ELEVATORS.
3. ANY INTERIOR STORAGE UNIT PARTITIONS NOT LOCATED ON A LOAD BEARING WALL OR ABUTTING A PUBLIC SPACE ARE TO BE CONSTRUCTED AS PARTITION TYPE 60.
4. INSTALL 3'-4" WIDE X 7'-0" TALL FALSE HALLWAY DOOR PROVIDED BY WALL DOOR SYSTEM MANUF. FALSE DOOR TO BE CENTERED ON THE ADJACENT WINDOW SYSTEM. FALSE DOOR COLOR TO BE FINISHED TO MATCH PAINT COLOR P02.
5. IN GALLERY SPACES, CORRUGATED WALL PANEL SYSTEM TO BE INSTALLED FULL HEIGHT FROM FLOOR TO BOTTOM OF DECKING ABOVE.

FLOOR PLAN LEGEND

- ROOM NAME AND NUMBER (ROOM 1.100)
- DOOR AND FRAME, SEE DOOR SCHEDULE ON A021
- 01A PARTITION TYPE SYMBOL, SEE SHEET A001
- A WINDOW ELEVATION SYMBOL, SEE SHEET A031
- A ACCESSORY SYMBOL
- DEPRESSED SLAB
- FLOOR DRAIN
- +8" FLOOR ELEVATION ABOVE F.F.E.
- 4-HOUR RATED PARTITION
- 2-HOUR RATED PARTITION
- 1-HOUR RATED PARTITION
- 1-HOUR RATED SMOKE BARRIER
- SMOKE RATED PARTITION
- E.J. EXPANSION JOINT
- C.J. CONTROL JOINT
- TYP. DIMENSION STRING TO FACE OF STUD OR FACE, MASONRY OR EXTERIOR FINISH.
- DIMENSION STRING TO COLUMN LINE

REFERENCE SYMBOL LEGEND

INTERIOR ELEVATION TAG: A01 / A601 — NUMBER / SHEET
EXTERIOR ELEVATION TAG: A02 / A201 — NUMBER / SHEET
DRAWING TITLE TAG: A01 / A101 FLOOR PLAN, 1/2" = 1'-0" — NUMBER, TITLE, SCALE, SHEET
SECTION CUT: A02 / A201 — NUMBER / SHEET
DETAIL CALLOUT: A03 / A451 — NUMBER / SHEET
DETAIL SECTION CALLOUT: A03 / A451 — NUMBER / SHEET

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1 17 JUNE, 2025 BULLETIN NO. 01

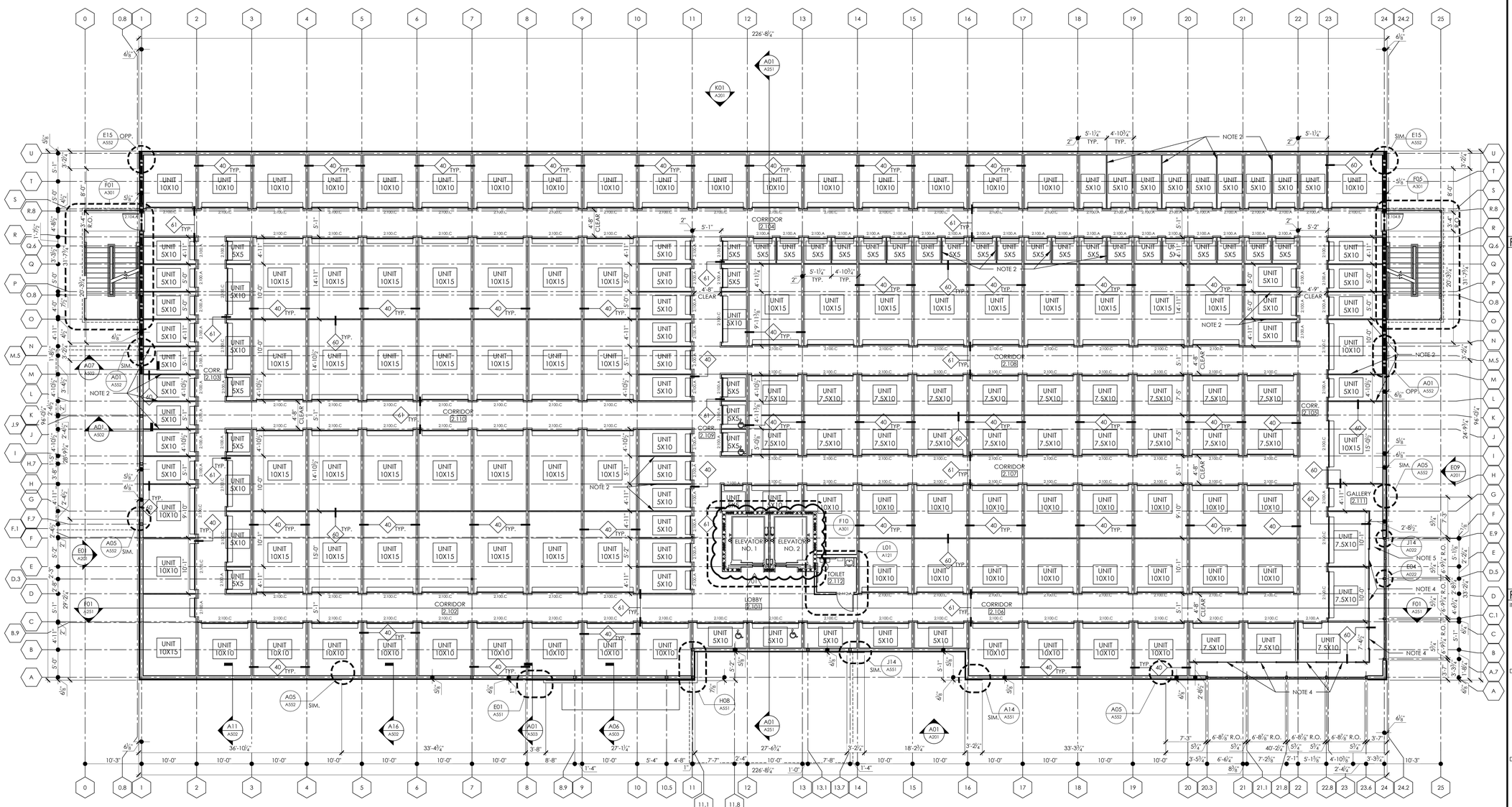
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CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS
PROJECT 23002
PHASE ----

SHEET TITLE
LEVEL 100 FLOOR PLAN - BUILDING A

SHEET
A101

PLOTTED ON 6/17/2025
BY JACKSON BUSBEE/SMITH BOLAND



A01 LEVEL 200 FLOOR PLAN - BUILDING A
A102 1/8" = 1'-0"

FLOOR PLAN NOTES

NOTE #

1. REFERENCE SHEET A051 FOR HALLWAY AND HALLWAY DOOR SYSTEM DETAILS FOR STORAGE UNIT WALLS THAT ABUT A PUBLIC SPACE.
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3. ANY INTERIOR STORAGE UNIT PARTITIONS NOT LOCATED ON A LOAD BEARING WALL OR ABUTTING A PUBLIC SPACE ARE TO BE CONSTRUCTED AS PARTITION TYPE 60.
4. INSTALL 3'-4" WIDE X 7'-0" TALL FALSE HALLWAY DOOR PROVIDED BY WALL DOOR SYSTEM MANUF. FALSE DOOR TO BE CENTERED ON THE ADJACENT WINDOW SYSTEM. FALSE DOOR COLOR TO BE FINISHED TO MATCH PAINT COLOR P02.
5. IN GALLERY SPACES, CORRUGATED WALL PANEL SYSTEM TO BE INSTALLED FULL HEIGHT FROM FLOOR TO BOTTOM OF DECKING ABOVE.

FLOOR PLAN LEGEND

- ROOM — ROOM NAME AND NUMBER
- DOOR AND FRAME, SEE DOOR SCHEDULE ON A021
- 01A — PARTITION TYPE SYMBOL, SEE SHEET A001
- A — WINDOW ELEVATION SYMBOL, SEE SHEET A031
- (A) — ACCESSORY SYMBOL
- DEPRESSED SLAB
- FLOOR DRAIN
- +8" — FLOOR ELEVATION ABOVE F.F.E.
- 4-HOUR RATED PARTITION
- 2-HOUR RATED PARTITION
- 1-HOUR RATED PARTITION
- 1-HOUR RATED SMOKE BARRIER
- SMOKE RATED PARTITION
- E.J. — EXPANSION JOINT
- C.J. — CONTROL JOINT
- TYP. DIMENSION STRING TO FACE OF STUD OR FACE, MASONRY OR EXTERIOR FINISH.
- DIMENSION STRING TO COLUMN LINE

REFERENCE SYMBOL LEGEND

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EXTERIOR ELEVATION TAG: A02 / A201 — NUMBER / SHEET
DRAWING TITLE TAG: A01 / A101 / 1/2" = 1'-0" — NUMBER, TITLE, FLOOR PLAN, SCALE, SHEET
SECTION CUT: NUMBER / A02 / A201 / SHEET
DETAIL CALLOUT: A03 / A451 — NUMBER / SHEET
DETAIL SECTION CALLOUT: A03 / A451 — NUMBER / SHEET

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27 APRIL 2023 CONSTRUCTION DOCUMENTS
1 17 JUNE, 2025 BULLETIN NO. 01

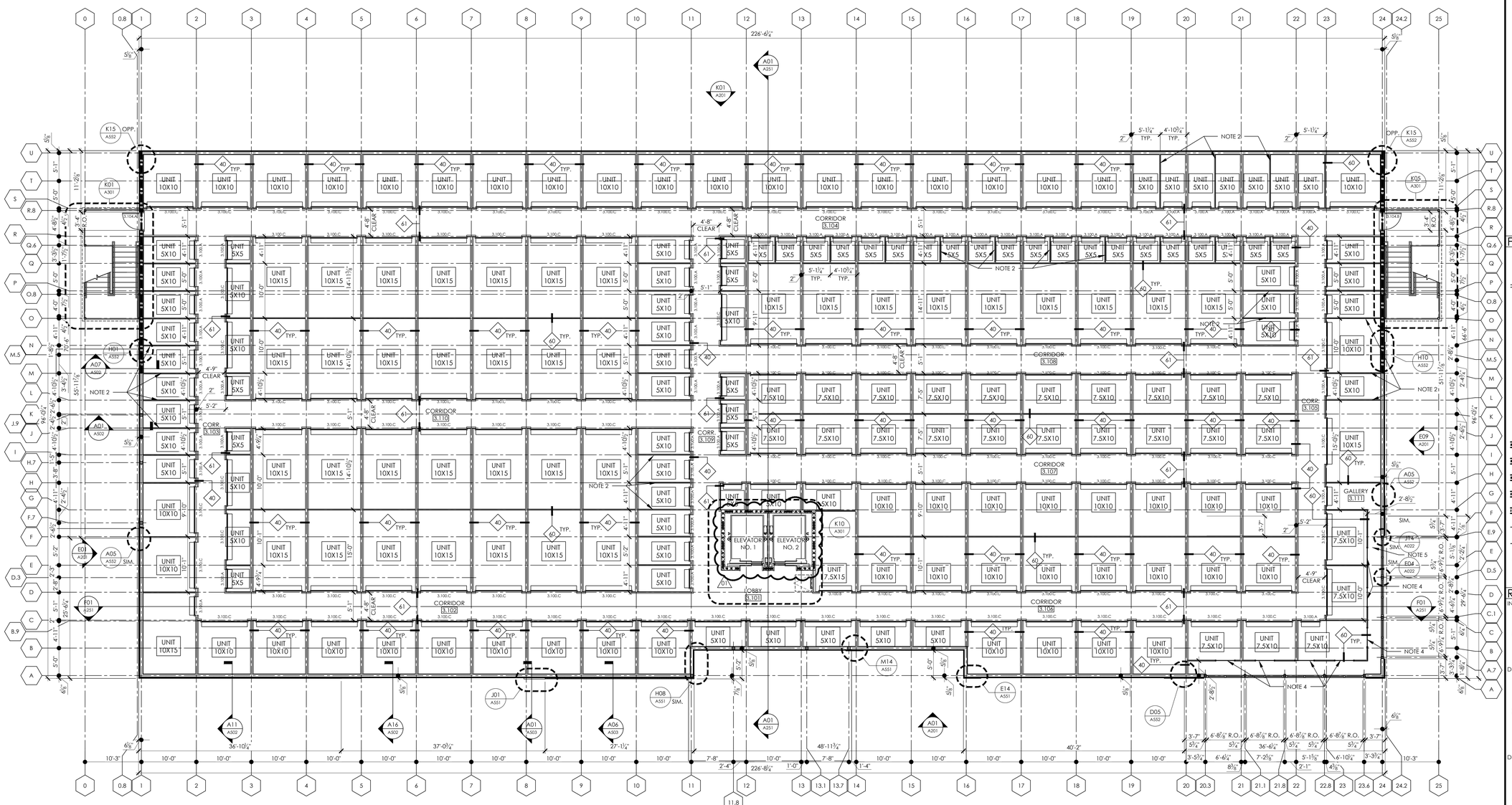
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CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS
PROJECT 23002
PHASE ----

SHEET TITLE
LEVEL 200 FLOOR PLAN - BUILDING A

SHEET
A102

PLOTTED ON 6/17/2025
SAVED AS 23-002-A-A102-LEVEL 200 FLOOR PLAN - BUILDING A.DWG



A01 LEVEL 300 FLOOR PLAN - BUILDING A
A103 1/8" = 1'-0"

FLOOR PLAN NOTES

NOTE #

1. REFERENCE SHEET A051 FOR HALLWAY AND HALLWAY DOOR SYSTEM DETAILS FOR STORAGE UNIT WALLS THAT ABUT A PUBLIC SPACE.
2. PROVIDE 48" TALL DIAMOND PLATING ON ALL CORRUGATED & LOBBY WALLS LOCATED WITHIN A 25' RADIUS OF THE ELEVATORS.
3. ANY INTERIOR STORAGE UNIT PARTITIONS NOT LOCATED ON A LOAD BEARING WALL OR ABUTTING A PUBLIC SPACE ARE TO BE CONSTRUCTED AS PARTITION TYPE 60.
4. INSTALL 3'-4" WIDE X 7'-0" TALL FALSE HALLWAY DOOR PROVIDED BY WALL DOOR SYSTEM MANUF. FALSE DOOR TO BE CENTERED ON THE ADJACENT WINDOW SYSTEM. FALSE DOOR COLOR TO BE FINISHED TO MATCH PAINT COLOR P02.
5. IN GALLERY SPACES, CORRUGATED WALL PANEL SYSTEM TO BE INSTALLED FULL HEIGHT FROM FLOOR TO BOTTOM OF DECKING ABOVE.

FLOOR PLAN LEGEND

- ROOM — ROOM NAME AND NUMBER
- DOOR AND FRAME, SEE DOOR SCHEDULE ON A021
- 01A — PARTITION TYPE SYMBOL, SEE SHEET A001
- A — WINDOW ELEVATION SYMBOL, SEE SHEET A031
- (A) — ACCESSORY SYMBOL
- DEPRESSED SLAB
- FLOOR DRAIN
- +8" — FLOOR ELEVATION ABOVE F.F.E.
- 4-HOUR RATED PARTITION
- 2-HOUR RATED PARTITION
- 1-HOUR RATED PARTITION
- 1-HOUR RATED SMOKE BARRIER
- SMOKE RATED PARTITION
- E.J. — EXPANSION JOINT
- C.J. — CONTROL JOINT
- TYP. DIMENSION STRING TO FACE OF STUD OR FACE, MASONRY OR EXTERIOR FINISH.
- DIMENSION STRING TO COLUMN LINE

REFERENCE SYMBOL LEGEND

INTERIOR ELEVATION TAG: A01 / A601 — NUMBER / SHEET
EXTERIOR ELEVATION TAG: A02 / A201 — NUMBER / SHEET
DRAWING TITLE TAG: A01 / A101 FLOOR PLAN 1/2" = 1'-0" — NUMBER, TITLE, SCALE, SHEET
SECTION CUT: A02 / A201 — NUMBER / SHEET
DETAIL CALLOUT: A03 / A451 — NUMBER / SHEET
DETAIL SECTION CALLOUT: A03 / A451 — NUMBER / SHEET

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CONSULTANT

Shamrock Building Systems, Inc.

NEW CONSTRUCTION FOR:
CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS
19TH LANE,VERO BEACH, FLORIDA, 32966

DRAWINGS PUBLISHED
27 APRIL 2023 CONSTRUCTION DOCUMENTS
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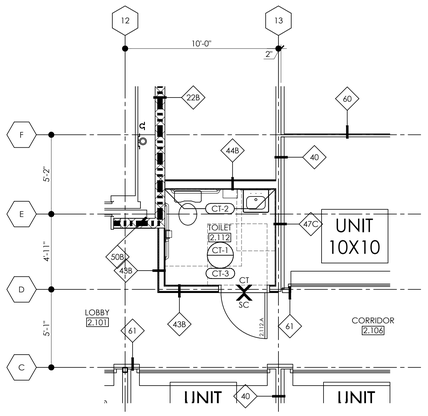
CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS

PROJECT 23002
PHASE ----

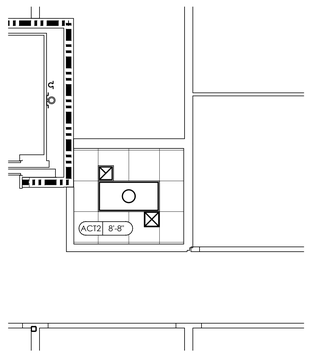
SHEET TITLE
LEVEL 300 FLOOR PLAN - BUILDING A

SHEET
A103

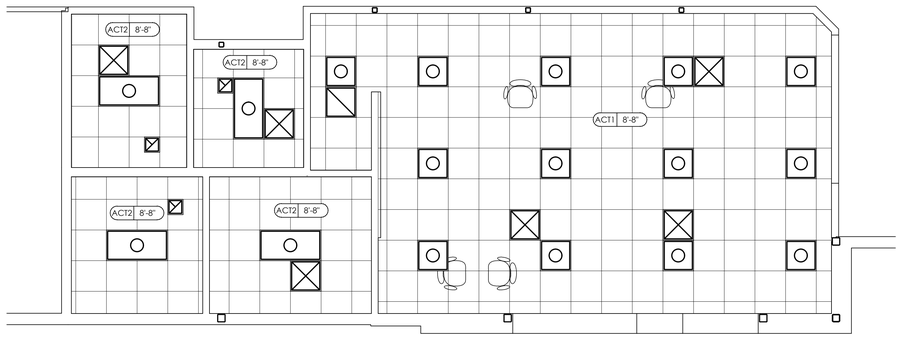
PLOTTED ON 6/17/2025
SMITH-BOLAND PLOT PLOTTED BY



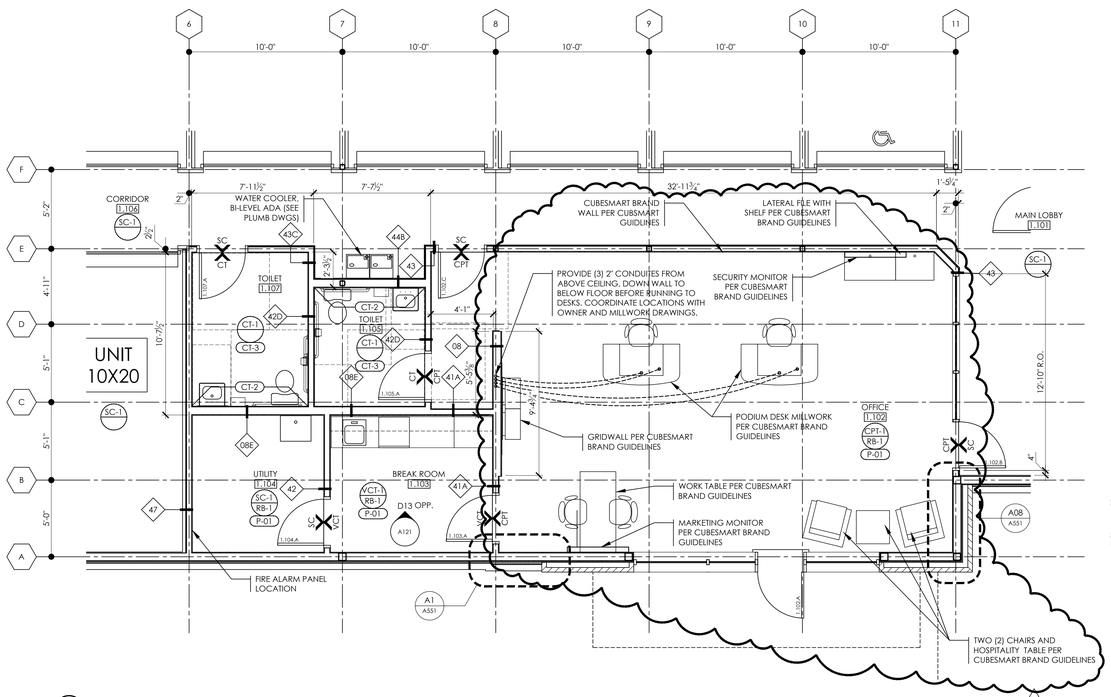
L01 A121 LEVEL 200 ENLARGED TOILET PLAN - BUILDING A
1/4" = 1'-0"



L05 A121 LEVEL 200 ENLARGED TOILET RCP-BUILDING A
1/4" = 1'-0"



G01 A121 LEVEL 100 ENLARGED OPPICE RCP-BUILDING A
1/4" = 1'-0"



A01 A121 LEVEL 100 ENLARGED OFFICE PLAN - BUILDING A
1/4" = 1'-0"

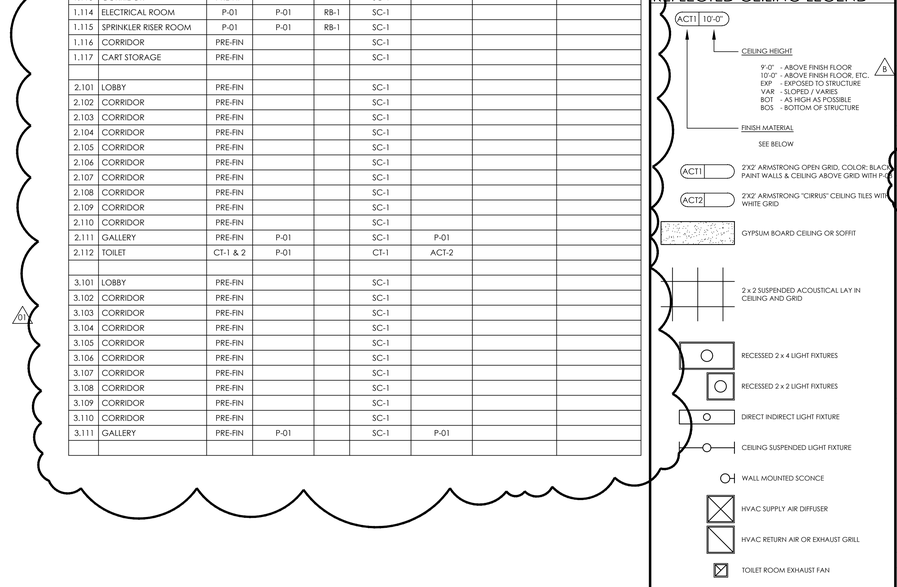
FINISH SCHEDULE

LOCATION / SPACE #		WALLS	TRIM	BASE	FLOOR	CEILING	MILLWORK	
							COUNTERTOPS	CABINETS
1.101	LOBBY	PRE-FIN			CPT-5			
1.102	OFFICE	P-01, P-02	P-01	RB-1	CPT-1	ACT-1, P-03		
1.103	BREAK ROOM	P-01	P-01	RB-1	VCT-1	ACT-2	SS-1	PL-1 & 2
1.104	UTILITY	P-01, FRP-1	P-01	RB-1	SC-1	ACT-2		
1.105	TOILET	CT-1 & 2	P-01		CT-1	ACT-2		
1.106	CORRIDOR	PRE-FIN			SC-1			
1.107	TOILET	CT-1 & 2	P-01		CT-1	ACT-2		
1.108	CORRIDOR	PRE-FIN			SC-1			
1.109	AUXILIARY LOBBY	PRE-FIN			SC-1			
1.110	CORRIDOR	PRE-FIN			SC-1			
1.111	CORRIDOR	PRE-FIN			SC-1			
1.112	CORRIDOR	PRE-FIN			SC-1			
1.113	CORRIDOR	PRE-FIN			SC-1			
1.114	ELECTRICAL ROOM	P-01	P-01	RB-1	SC-1			
1.115	SPRINKLER RISER ROOM	P-01	P-01	RB-1	SC-1			
1.116	CORRIDOR	PRE-FIN			SC-1			
1.117	CART STORAGE	PRE-FIN			SC-1			
2.101	LOBBY	PRE-FIN			SC-1			
2.102	CORRIDOR	PRE-FIN			SC-1			
2.103	CORRIDOR	PRE-FIN			SC-1			
2.104	CORRIDOR	PRE-FIN			SC-1			
2.105	CORRIDOR	PRE-FIN			SC-1			
2.106	CORRIDOR	PRE-FIN			SC-1			
2.107	CORRIDOR	PRE-FIN			SC-1			
2.108	CORRIDOR	PRE-FIN			SC-1			
2.109	CORRIDOR	PRE-FIN			SC-1			
2.110	CORRIDOR	PRE-FIN			SC-1			
2.111	GALLERY	PRE-FIN	P-01		SC-1	P-01		
2.112	TOILET	CT-1 & 2	P-01		CT-1	ACT-2		
3.101	LOBBY	PRE-FIN			SC-1			
3.102	CORRIDOR	PRE-FIN			SC-1			
3.103	CORRIDOR	PRE-FIN			SC-1			
3.104	CORRIDOR	PRE-FIN			SC-1			
3.105	CORRIDOR	PRE-FIN			SC-1			
3.106	CORRIDOR	PRE-FIN			SC-1			
3.107	CORRIDOR	PRE-FIN			SC-1			
3.108	CORRIDOR	PRE-FIN			SC-1			
3.109	CORRIDOR	PRE-FIN			SC-1			
3.110	CORRIDOR	PRE-FIN			SC-1			
3.111	GALLERY	PRE-FIN	P-01		SC-1	P-01		

GENERAL RCP NOTES

1) PAINT ALL DRYWALL SOFFITS UNLESS NOTED OTHERWISE.
2) REFLECTED CEILING MAY NOT SHOW THE FULL EXTENT OF LIGHTING, MECHANICAL PENETRATIONS OR REQUIRED ACCESS PANELS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. ALL LIGHTING FIXTURES, DIFFUSERS, SPRINKLER HEADS, ETC. SHALL BE LOCATED AT THE CENTER POINT OF THE CEILING TILE, UNLESS NOTED OTHERWISE.
3) CENTER HVAC COMPONENTS IN OPEN GRID.
4) CENTER SPRINKLER HEADS IN OPEN GRID.

REFLECTED CEILING LEGEND



INTERIOR FINISH NOTES

1) CONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES THAT MAY AFFECT APPLICATION OF FINISHES, INCLUDING DISCONTINUED OR DELAYED MATERIALS, PRIOR TO ANY PROCEEDINGS. NO SUBSTITUTIONS ALLOWED WITHOUT PRIOR ARCHITECT APPROVAL.
2) CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
3) INSTALLER SHALL EXAMINE CONDITIONS OF SURFACES ON WHICH NEW FINISHES ARE TO BE INSTALLED. CONTRACTOR TO NOTIFY ARCHITECT IMMEDIATELY OF ANY DEVIATIONS. BEGINNING OF WORK SHALL CONSTITUTE ACCEPTANCE OF SURFACES AS SATISFACTORY. PREPARE ALL SURFACES SCHEDULED TO RECEIVE NEW FINISHES TO BE SMOOTH, EVEN AND FREE OF IMPERFECTIONS.
4) CONTRACTOR TO APPROVE ALL NEW FINISHES AGAINST DEFECTS. IF ANY DEFECTS IN MATERIALS ARE FOUND, DO NOT PROCEED WITH INSTALLATION. NOTIFY THE MANUFACTURER AND ARCHITECT IMMEDIATELY.
5) EXTEND FINISHES INTO CLOSETS UNLESS NOTED OTHERWISE.
6) CONSULT WITH ARCHITECT ON ANY WALL BASE OR FLOOR FINISH TRANSITION PROBLEM PRIOR TO ANY WORK.
7) CAULK/SILICON ALL MILLWORK WHERE IT MEETS WALL. CAULK/SILICON WALL COVERING WHERE IT MEETS DOOR/WINDOW FRAMES.
   CAULK/SILICONE ACT GRID PERIMETER WHERE IT MEETS WALL.
8) CONTRACTOR TO PROVIDE MATERIALS THAT COMPLY TO THE FOLLOWING FINISH CLASSIFICATIONS: EXITS - A OR B & I OR II, ALL OTHER SPACES - A, B OR C.

CONCRETE

SC-1 SEALED CONCRETE

CARPET & CARPET TILE

CPT-1 CARPET TILE: PLAIN WEAVE BY INTERFACE. COLOR: 101085 RUSTIC
CPT-5 CARPET TILE: SUPREME NOP BY MATS INC. COLOR: #07 CHARCOAL

CARPET NOTES

1) ALL FLOOR COVERING TRANSITIONS AT DOORS SHALL OCCUR UNDER CENTERLINE OF DOOR, U.N.O.
2) PROVIDE FLOOR TRANSITION STRIPS WHEREVER FLOOR TYPES CHANGE. TRANSITION STRIPS TO MATCH ADJACENT FLOOR MATERIAL U.N.O. SUBMIT MANUFACTURERS FULL COLOR LINE TO DESIGNER FOR SELECTION. WHERE METAL TRANSITIONS ARE NOTED, USE SCHLUTER RENO-TK SATIN NICKEL STAINLESS STEEL.
3) CONTACT RHIANNON HALL @ RHIANNON.HALL@INTERFACE.COM FOR PURCHASING. CONTRACTOR MUST COORDINATE INSTALL WITH THE VENDOR.
4) CONTACT VENDOR 4 WEEKS IN ADVANCE TO MEASURE & PRICE OUT.

CERAMIC TILE

CT-1 CROSSVILLE; AB25 MERCURY; SIZE: 12" X 12" W/ #89 SMOKE GRAY GROUT BY LATICRETE
CT-2 ROCA TILE; U739 RED PEPPER; SIZE: 6" X 6" (NO COVE BASE) W/ #89 SMOKE GRAY GROUT BY LATICRETE
CT-3 DALTILE; K175 BISCUIT ST.; SIZE: 3" X 6" W/ #44 BRIGHT WHITE GROUT BY LATICRETE

TILE NOTES

1) INSTALL CERAMIC TILE IN A STACK BOND PATTERN.
2) PROVIDE INTERGAL COVE BASE FOR BOTTOM RUN OF CT-3 (SHAPE NUMBER: A3361MOD).

RESILIENT TILE FLOORING

VCT-1 ARMSTRONG, 51941 COLOR: POLAR WHITE

VCT NOTES

1) INSTALL VCT QUARTER-TURNED, UNLESS NOTED OTHERWISE.

PAINT

P-01 SHERMAN WILLIAMS, PROMAR 200; 7004 SNOWBOUND (WALL PAINT, DOORS & FRAMES)
P-02 SHERMAN WILLIAMS PROMAR 200; 6868 REAL RED (ACCENT PAINT)
P-03 BENJAMIN MOORE: #2127-10 TWILIGHT ZONE (CEILING ABOVE OPEN GRID)
P-04 SHERWIN WILLIAMS, PROMAR 200; 7068 GRIZZLE GRAY (ALL METAL SURFACES INCL. STAIRS & RAILS)

PAINT NOTES

1) PAINT HOLLOW METAL DOORS AND FRAMES SEMI-GLOSS & PAINT GRADE DOORS AND FRAMES GLOSS, U.N.O.
2) ALL WALLS TO BE PAINTED EGGSHELL FINISH. ALL SOFFITS, HEADERS AND CEILINGS TO BE PAINTED FLAT FINISH. ALL PAINT GRADE MILLWORK AND TRIM TO BE PAINTED SEMI-GLOSS FINISH. ALL STAINED MILLWORK TO BE SATIN FINISH, U.N.O.
3) ALL ACCESS PANELS, GRILLS, ETC. ON WALL OR CEILING TO BE PRIMED AND PAINTED TO MATCH ADJACENT SURFACE COLOR.
4) ALL WALLS IN JANITOR CLOSETS AND RESTROOMS TO BE SEMI-GLOSS FINISH UNLESS NOTED OTHERWISE.

WALL BASE

RB-1 BURKE MERCER, COLOR: 727 THUNDER, 4" CONTINUOUS ROLL, NO PREFABRICATED CORNERS.

SOLID SURFACE MATERIAL

SS-1 OMEGA , COLOR: HANEX, COUNTER TOP AND BACK SPLASH PER THE DRAWINGS

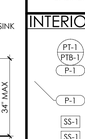
PLASTIC LAMINATE MATERIAL

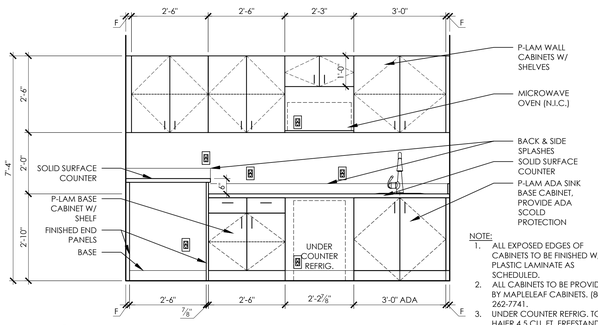
PL-1 WILSONART , COLOR: 1573-60 FROSTY WHITE, CABINETS PER THE DRAWINGS
PL-2 FORMICA , COLOR: 8820 LEAF GREEN, CABINETS PER THE DRAWINGS
PL-2 TBD , COLOR: BLACKLAMINATE, CABINETS PER THE DRAWINGS

PLASTIC LAMINATE NOTES

1) PROVIDE MILLWORK PER THE CUBESMART BRAND SPECIFICATIONS.
2) CUBESMART RECOMMENDED MILLWORK COMPANIES ARE WARWICK PRODUCTS IN CLEVELAND OH. & DILLON CABINET & MILLWORK IN LEBANON, TN.

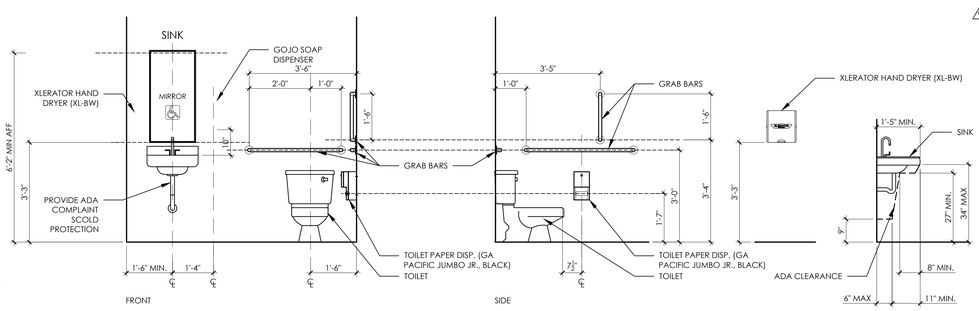
INTERIOR DESIGN KEY LEGEND





NOTE:
1. ALL EXPOSED EDGES OF CABINETS TO BE FINISHED W/ PLASTIC LAMINATE AS SCHEDULED.
2. ALL CABINETS TO BE PROVIDED BY MAPLELEAF CABINETS. (801) 262-7741.
3. UNDER COUNTER REFRIG. TO BE HAIER 4.5 CU. FT., FREESTANDING COMPACT REFRIGERATOR WITH FREEZER COMPARTMENT (VIRTUAL STEEL)

D13 A121 BREAK ROOM CABINET ELEVATION
1/2" = 1'-0"



A10 A121 PLUMBING FIXTURE AND ACCESSORY ELEVATIONS
1/2" = 1'-0"

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AR101741

CONSULTANT

Shamrock Building Systems, Inc.

NEW CONSTRUCTION FOR:
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19TH LANE VERO BEACH, FLORIDA, 32966

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CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS

PROJECT 23002
PHASE ----

SHEET TITLE
ENLARGED FLOOR PLANS - BUILDING A

SHEET
A121

PLOTTED ON 6/17/2025

SE MICHAEL BOLAND © ARCHITECTS

Roof Size (sq ft)

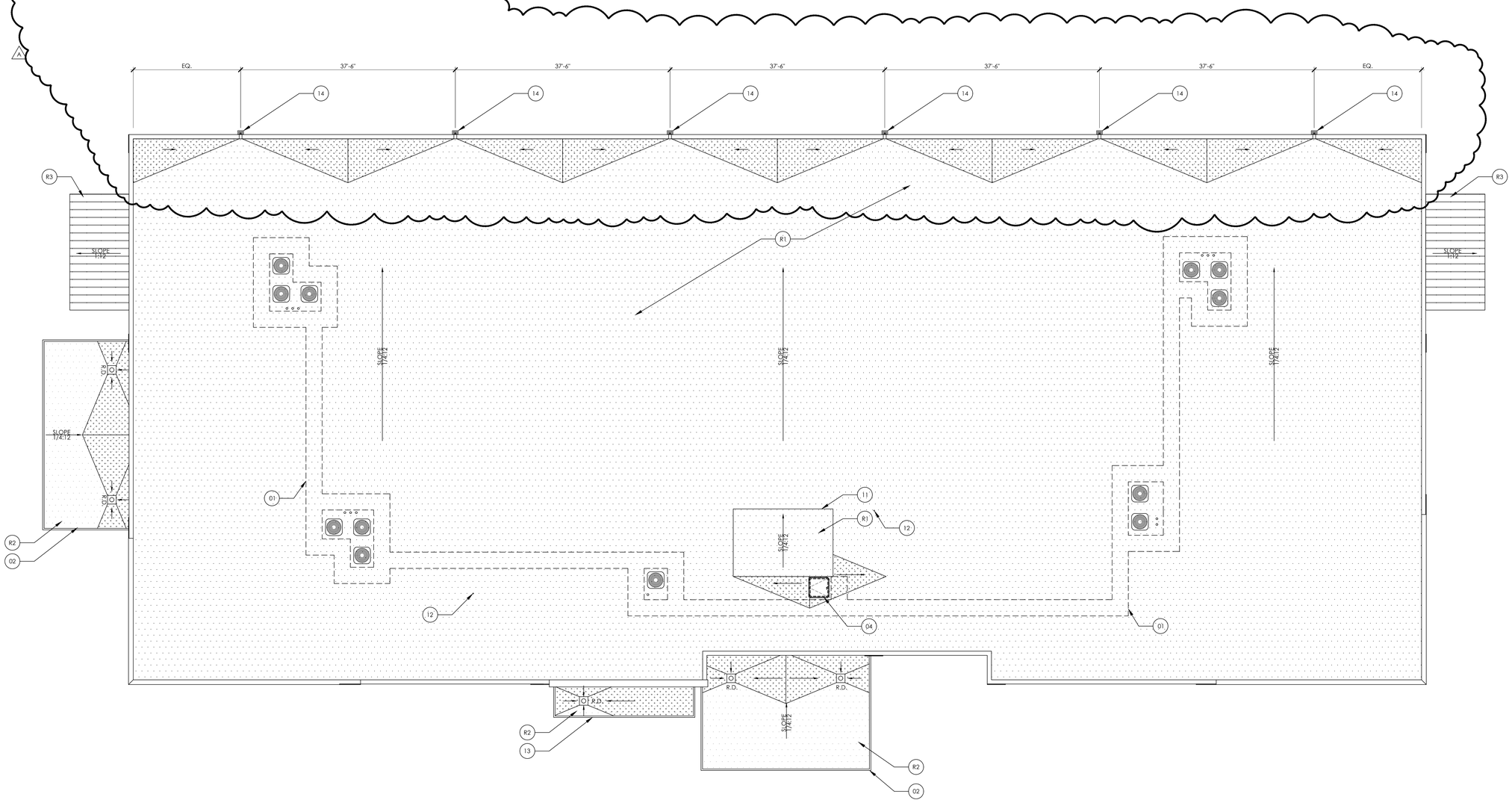
21171

State:

Florida | Miami

calculate

Diameter	Quantity
2"	34
3"	12
4"	6
5"	3
6"	2



A01 ROOF PLAN - BUILDING A
A151 1/8" = 1'-0"

ROOF PLAN KEY LEGEND

- GUTTER AND DOWNSPOUT
- SLOPE ROOF SLOPE AND OR PITCH
- D.S. DOWNSPOUT LOCATION
- R.D. ROOF DRAIN. COORDINATE EXACT LOCATION W/ ARCHITECTURAL, MECHANICAL, STRUCTURAL, PLUMBING, & ELECTRICAL DRAWINGS.
- D.S. DOWN SPOUT W/ CONDUCTOR HEAD. COORDINATE EXACT LOCATION W/ ARCHITECTURAL, MECHANICAL, STRUCTURAL, PLUMBING, & ELECTRICAL DRAWINGS.
- MECHANICAL UNIT (REFERENCE DETAILS A16 & C16/A155)

ROOF MATERIAL KEY LEGEND

- THERMOPLASTIC POLYOLEFIN MEMBRANE SYSTEM BASIS OF DESIGN: CARLISLE, 45 MIL COLOR: WHITE
- THERMOPLASTIC POLYOLEFIN MEMBRANE SYSTEM RIGID INSULATION, TAPERED BASIS OF DESIGN: CARLISLE, 45 MIL COLOR: WHITE
- METAL ROOFING BASIS OF DESIGN: MBCI, ULTRA-DEK BY MCBI COLOR: GALVALUME PLUS COATING

GENERAL ROOF NOTES

A. PROVIDE PRE-FINISHED ALUMINUM GUTTERS, DOWNSPOUTS AND ACCESSORIES IN KYNAR FINISH; COLOR SELECTION BY ARCHITECTS.
B. GUTTERS SHALL BE A-STYLE U.N.O. WITH PLAIN SMOOTH RECTANGULAR DOWNSPOUTS. SEE KEYNOTES FOR SIZES.
C. GUTTERS SHALL HAVE CONTINUOUS PERFORATED PRE-FINISHED ALUMINUM GUTTER GUARDS.
D. SECURE GUTTERS AND DOWNSPOUTS WITH NECESSARY CONCEALED HANGERS, STRAPS, AND ACCESSORIES.
E. IT IS THE SOLE RESPONSIBILITY OF THE INSTALLER TO COORDINATE PROPER SIZING OF GUTTERS AND DOWNSPOUTS TO ACCOMMODATE ROOF LOADS.
F. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE TO ALL DRAINAGE LOCATIONS INDICATED ON ALL ROOF PLANS.
G. CONTRACTOR SHALL COORDINATE SIZE OF ROOF PENETRATIONS BASED ON MECHANICAL AND PLUMBING DRAWINGS.
H. ALL ROOF PENETRATIONS SHALL OCCUR ON THE BACK SIDE OF ROOF. COORDINATE ANY DISCREPANCIES WITH THE ARCHITECT.
I. ALL ROOF PENETRATIONS SHALL BE PAINTED BLACK.
J. CONTRACTOR SHALL COORDINATE MAXIMUM ALLOWABLE VENT PIPING LENGTHS. IF LOCATIONS INDICATED ON DRAWINGS EXCEED MAXIMUM ALLOWABLE LENGTHS COORDINATE NEW LOCATION WITH ARCHITECT PRIOR TO RELOCATION.
K. RADON REDUCTION SYSTEM AS REQUIRED. REFER TO EPA 402-R-94-009 "MODEL STANDARDS AND TECHNIQUES FOR CONTROL OF RADON IN NEW RESIDENTIAL BUILDINGS."
L. MINIMUM R-VALUE FOR INSULATED ROOFING.
M. R-25ci (INSULATION ENTIRELY ABOVE DECK)
N. R-38 (ATTIC OR OTHER)

ROOF NOTES (A)

A. TIE DOWNSPOUT INTO STORM SEWER WHERE INDICATED ON CIVIL DRAWINGS.
B. DIRECT DOWNSPOUT TO INLET USING TRANSITION BOOT AND HDPE CORRUGATED PIPE.
C. PROVIDE ROOFING CANTS WHERE NECESSARY TO PROVIDE POSITIVE DRAINAGE ON ROOF SURFACES.

01 TPO WALKPAD
34" WIDE W/ YELLOW BORDER

02 STRUCTURAL CANOPY
(SEE DETAILS A01/A501 & A01/A502)

03 ROOF PENETRATION
(SEE DETAILS A01, A16 & G16/A155)

04 ROOF HATCH
(SEE DETAILS L12/A155)

05 METAL COPING / GRAVEL STOP
(SEE DETAIL G12/A155)

06 PARAPET RAKE DETAIL
(SEE TYPICAL DETAILS ON SHEET A155)

07 ROOF SCUPPER
(SEE DETAILS A01/A155)

08 DOWNSPOUT & GUTTERS BY PEMB MANUF.
TIE-INTO UNDERGROUND STORM WATER SYSTEM

09 GUTTER (6X8)

10 DOWNSPOUT (4X6)
TIE-INTO UNDER GROUND STORM WATER SYSTEM

11 ELEVATOR PENTHOUSE

12 PLUMBING VENT PENETRATION
(SEE DETAIL A16/A155)

13 STRUCTURAL CANOPY (A)
(SEE DETAILS A06/A503)

14 SCUPPER, CONDUCTOR & DOWNSPOUT
(SEE DETAILS A01/155 & A07/A556)

R1 ROOF TYPE 01 (NON VENTED) R-25 MINIMUM MECHANICALLY FASTENED TPO MEMBRANE
THERMOPLASTIC POLYOLEFIN MEMBRANE
1ST LAYER RIGID INSULATION (2.5" THICK, R-14.4 MIN.)
2ND LAYER RIGID INSULATION (2" THICK, R-11.4 MIN.), STAGGERED SEEMS
STEEL ROOF DECK (SEE STRUCTURAL)

R2 ROOF TYPE 02 (NON VENTED) MECHANICALLY FASTENED TPO MEMBRANE
THERMOPLASTIC POLYOLEFIN MEMBRANE
COVER BOARD (½" THICK, R-2.5)
STEEL ROOF DECK (SEE STRUCTURAL)

R3 ROOF TYPE 03 (NON VENTED) NON-INSULATED METAL ROOFING OVER METAL DECKING
METAL ROOF PANEL
STEEL ROOF DECKING

R4 ROOF TYPE 03 (NON VENTED) NON-INSULATED METAL ROOFING OVER PURLINS
METAL ROOF PANEL
STEEL PURLINS, SEE STRUCTURAL DRAWINGS

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Michael Patrick Boland

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27 APRIL 2023 CONSTRUCTION DOCUMENTS
1 23 AUGUST, 2023 ADDENDUM A

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CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS

PROJECT 23002
PHASE ----

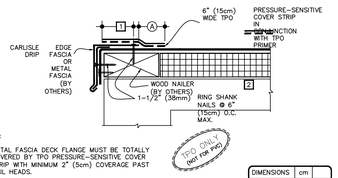
SHEET TITLE
ROOF PLAN - BUILDING A

SHEET
A151

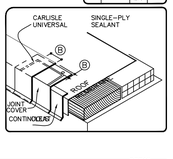
PLOTTED ON 9/20/2023
SB ARCH 30 X 42 (ARCH D)

THERMOPLASTIC MEMBRANE — TPO

CAUTION: DETAIL NOT FOR USE ON 25 OR 30-YEAR WARRANTY PROJECTS. ACCEPTABLE EDGING SHALL CONFORM WITH THERMOPLASTIC UNIVERSAL DETAILS U-1B, U-1C, U-1D, U-1E OR U-1F.



DIMENSIONS	cm	
A 2"	5	MIN.
B 1/2"	1.5	TO
1"	2.5	



NOTES:

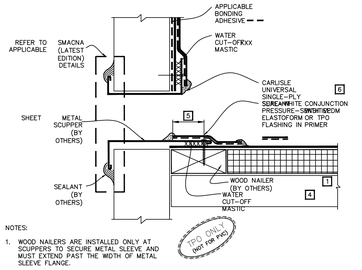
1. METAL FASCIA DECK FLANGE MUST BE TOTALLY COVERED BY TPO PRESSURE-SENSITIVE COVER STRIP WITH MINIMUM 2" (5cm) COVERAGE PAST NAIL HEADS.
2. WOOD NAILER MUST EXTEND PAST TOTAL WIDTH OF METAL FASCIA DECK FLANGE.
3. TO REMOVE FINISHING OILS, SCRUB METAL FLANGE WITH WEATHERED MEMBRANE CLEANER; ALLOW TO DRY PRIOR TO APPLYING TPO PRIMER.
4. APPLY TPO PRIMER TO METAL FLANGE AND MEMBRANE SURFACE PRIOR TO INSTALLING TPO PRESSURE-SENSITIVE COVER STRIP.
5. WHEN METAL FASCIA BY OTHERS IS USED, FASTENER TYPE AND FASTENING FREQUENCY SHALL BE RECOMMENDED BY METAL EDGE MANUFACTURER.
6. TO ENSURE TPO PRESSURE-SENSITIVE COVER STRIP CONFORMS TO STEP-OFFS, HEAT COVER STRIP AT SPLICE INTERSECTIONS PRIOR TO ROLLING.
7. THIS DETAIL IS NOT RECOMMENDED FOR ROOFS THAT ARE LIKELY TO EXPERIENCE SIGNIFICANT SNOW AND ICE UP-SLOPE FROM THE GUTTER /EDGE WITH A PITCH OF 3:12 OR GREATER.

SecurEdge DRIP EDGE FASCIA	DETAIL NO. U-1A
MAXIMUM WARRANTY: 20 YEARS	THERMOPLASTIC TPO

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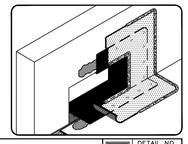
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THERMOPLASTIC MEMBRANE — TPO



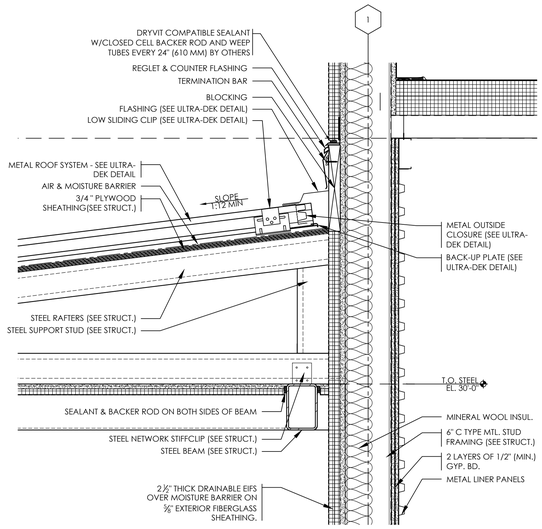
NOTES:

1. WOOD NAILERS ARE INSTALLED ONLY AT SCUPPERS TO SECURE METAL SLEEVE AND MUST EXTEND PAST THE WIDTH OF METAL SLEEVE FLANGE.
2. INSTALL WALL FLASHING PRIOR TO SCUPPER INSTALLATION.
3. METAL SCUPPER BOX MUST HAVE CONTINUOUS FLANGES WITH ROUNDED CORNERS; SOLDER ALL SCUPPER SEAMS WATER-TIGHT.
4. WATER CUT-OFF MASTIC UNDER SCUPPER FLANGE MUST BE UNDER CONSTANT COMPRESSION.
5. SCUPPER FLANGES MUST BE TOTALLY COVERED BY PRESSURE-SENSITIVE ELASTOFORM FLASHING WITH MINIMUM 2" (5cm) COVERAGE PAST NAIL HEAD.
6. UNIVERSAL SINGLE-PLY SEALANT IS REQUIRED AT FLASHING EDGES ON SCUPPER EDGE. TPO PRIMER MUST BE USED TO PREPARE SURFACES PRIOR TO THE APPLICATION OF SEALANT.

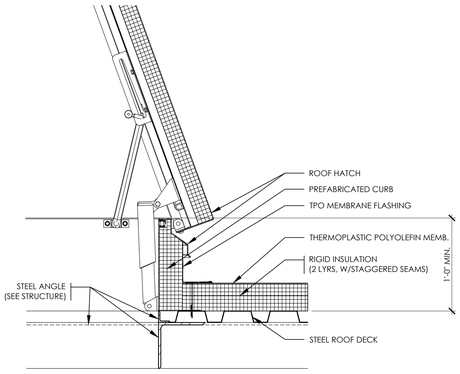


SCUPPER AT DECK- TPO	DETAIL NO. U-18B
MAXIMUM WARRANTY: 30 YEARS	THERMOPLASTIC TPO

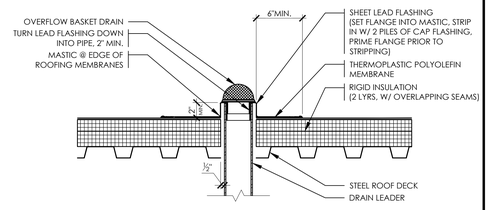
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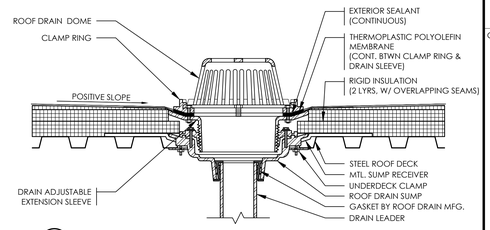
K07 / A155 DETAIL @ STAIR CANOPY & EIFS 1 1/2" = 1'-0"



L12 / A155 ROOF HATCH DETAIL 1 1/2" = 1'-0"

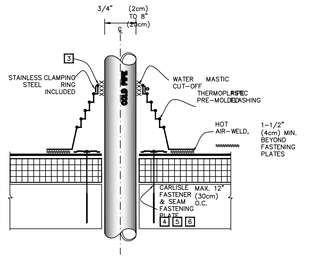


M16 / A155 ROOF OVERFLOW DRAIN DETAIL 1 1/2" = 1'-0"



K16 / A155 ROOF DRAIN DETAIL 1 1/2" = 1'-0"

THERMOPLASTIC MEMBRANE — PVC/TPO



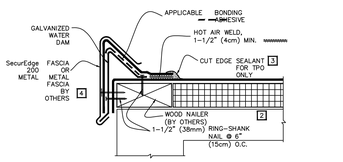
NOTES:

1. REMOVE ALL EXISTING LEAD AND FLASHING MATERIAL BEFORE INSTALLING PRE-MOLDED PIPE FLASHING.
2. TEMPERATURE OF THE PIPE PENETRATION MUST NOT EXCEED 140°F (60°C) WHEN USING PVC AND 160°F (71°C) WHEN USING TPO FLASHING.
3. PRE-MOLDED PIPE FLASHING MUST HAVE INTACT RIB AT THE TOP EDGE REGARDLESS OF PIPE DIAMETER.
4. INSTALL A MINIMUM OF 4 FASTENERS AND PLATES AROUND THE PIPE, EQUALLY SPACED. IF FASTENERS AND PLATES CANNOT BE INSTALLED AS SHOWN, THEY MAY ALSO BE POSITIONED OUTSIDE THE PIPE MAXIMUM 12" (30cm) O.C. AND FLASHED WITH THERMOPLASTIC REINFORCED MEMBRANE / TPO CUT-EDGE SEALANT. REFER TO DETAIL U-8B.
5. FASTENERS AND PLATES ARE NOT REQUIRED ON ADHERED SYSTEMS UNLESS PIPE DIAMETER EXCEEDS 18" (46cm).
6. ON MECHANICALLY FASTENED SYSTEMS, HP-X FASTENERS AND PIRANHA PLATES OR HP-XTRA FASTENERS AND PIRANHA XTRA PLATES ARE REQUIRED OVER STEEL AND WOOD DECKS. ON CONCRETE DECKS, CD-10 OR HD 14-10 FASTENERS ARE USED WITH PIRANHA PLATES.

PRE-MOLDED PIPE FLASHING	DETAIL NO. U-8A
MAXIMUM WARRANTY: 30 YEARS	THERMOPLASTIC UNIVERSAL

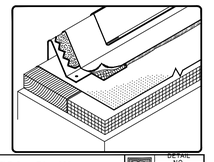
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THERMOPLASTIC MEMBRANE — PVC/TPO



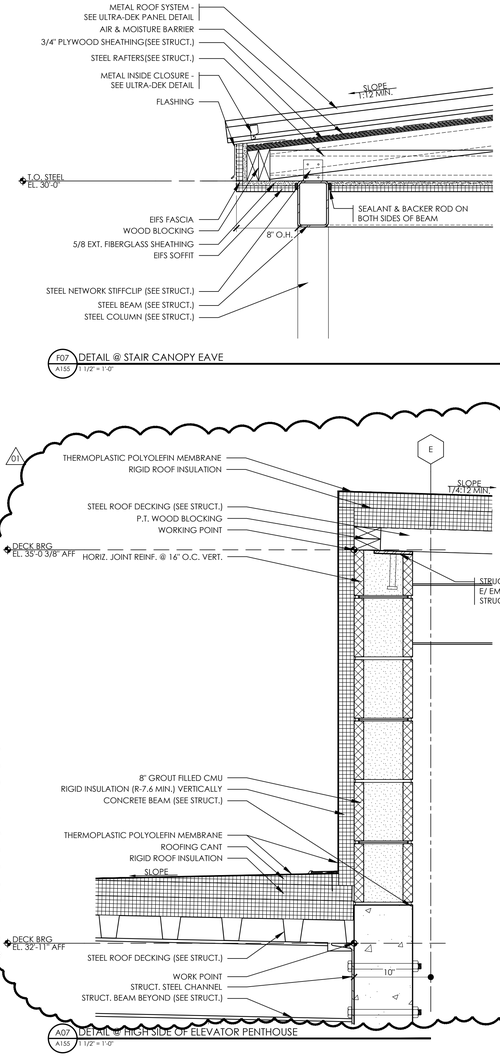
NOTES:

1. REFER TO SecurEdge 200 INSTRUCTION MANUAL FOR STEP-BY-STEP INSTALLATION PROCEDURES.
2. WOOD NAILER MUST EXTEND PAST TOTAL WIDTH OF SecurEdge DECK FLANGE.
3. APPROXIMATELY 1/8" (5mm) DIAMETER BEAD OF CUT-EDGE SEALANT IS REQUIRED ON CUT EDGES OF REINFORCED TPO MEMBRANE.
4. WHEN METAL FASCIA BY OTHERS IS USED, FASTENER TYPE AND FASTENING FREQUENCY SHALL BE RECOMMENDED BY METAL EDGE MANUFACTURER.

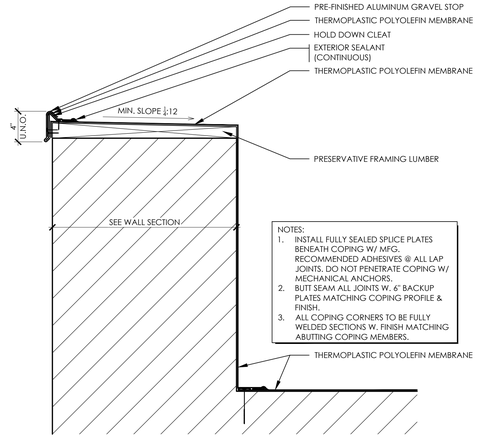


CARLISLE SecurEdge 200	DETAIL NO. U-1D
MAXIMUM WARRANTY: 30 YEARS	THERMOPLASTIC UNIVERSAL

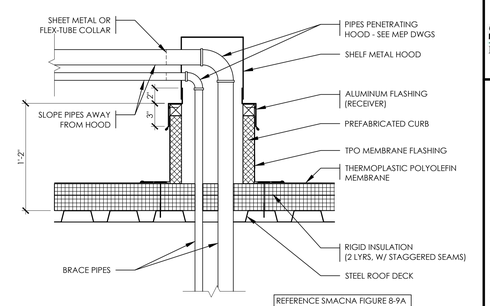
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F07 / A155 DETAIL @ STAIR CANOPY EAVE 1 1/2" = 1'-0"



G12 / A155 TYPICAL COPING DETAIL 1 1/2" = 1'-0"

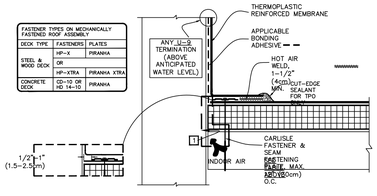


G16 / A155 PIPE PENETRATION DETAIL 1 1/2" = 1'-0"

THERMOPLASTIC MEMBRANE — PVC/TPO

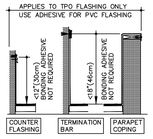
CAUTION: FASTENERS AND PLATES ARE REQUIRED AT 6" (15cm) O.C. FOR ADHERED SYSTEMS WITH WARRANTY WIND SPEED COVERAGE GREATER THAN 90 MPH AND FOR ALL PROJECTS WITH WARRANTIES GREATER THAN 20 YEARS.

FASTENER TYPES ON MECHANICALLY FASTENED ROOF ASSEMBLY		
DECK TYPE	FASTENERS	PLATES
STEEL & WOOD DECK	HP-X OR HP-XTRA	PIRANHA PIRANHA XTRA
CONCRETE DECK	CD-10 OR HD 14-10	PIRANHA



NOTES:

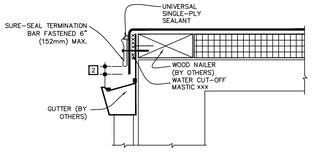
1. REFER TO SPEC SUPPLEMENTS:
   1.1. TO BLOCK INDOOR AIR INFILTRATION AND HUMIDITY AT THE JUNCTION (G-01-18).
   1.2. WHERE ROOF SYSTEM IS DESIGNED WITH A VAPOR RETARDER (G-08-19).
2. IN CASE WHERE FASTENERS MUST BE FASTENED INTO THE VERTICAL SURFACE, CARE MUST BE TAKEN TO CREASE THE MEMBRANE TIGHTLY INTO THE ANGLE CHANGE. PLACING THE PLATES TIGHT INTO THE ANGLE CHANGE WILL HELP HOLD THE MEMBRANE IN THE PROPER POSITION.



PARAPET FLASHING - FASTENED INTO DECK	DETAIL NO. U-12A
MAXIMUM WARRANTY: 30 YEARS	THERMOPLASTIC UNIVERSAL

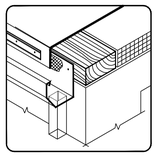
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THERMOPLASTIC MEMBRANE — PVC/TPO



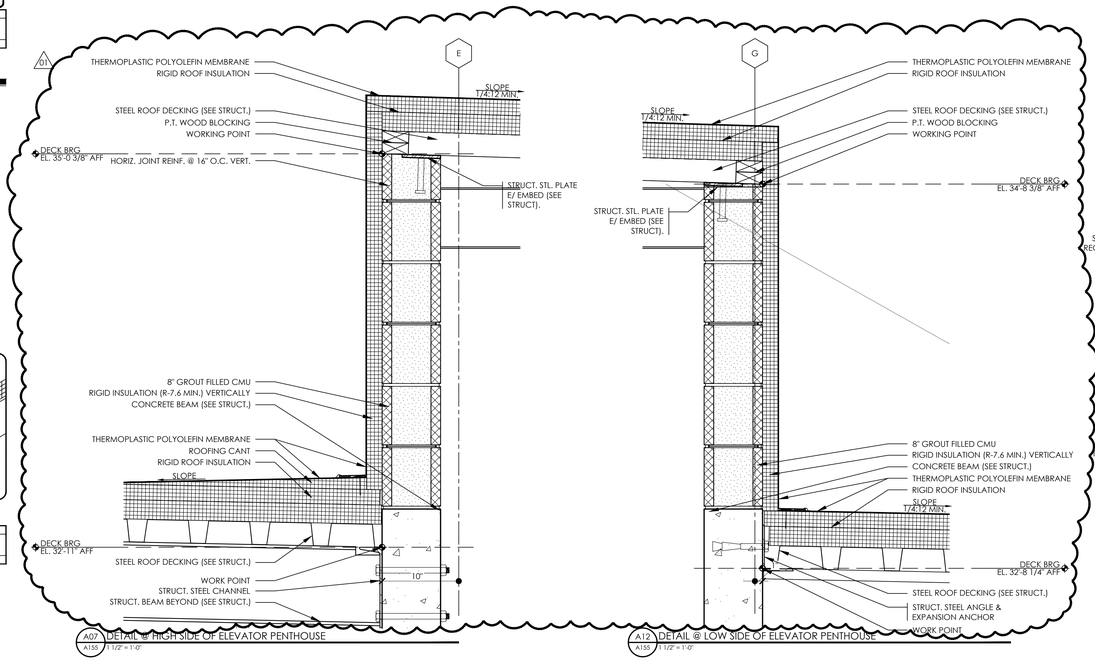
NOTES:

1. FASTENING OF METAL TERMINATION BAR MUST PROVIDE CONSTANT COMPRESSION ON WATER CUT-OFF MASTIC.
2. ALLOW MEMBRANE SHEET TO EXTEND 1/2" (13mm) MINIMUM BELOW THE METAL TERMINATION BAR.



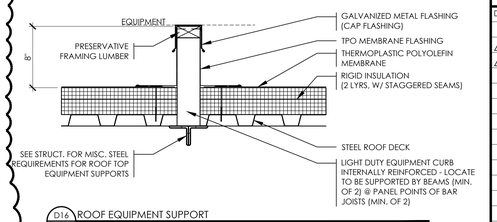
METAL BAR EDGE TERMINATION	DETAIL NO. U-1C
	THERMOPLASTIC UNIVERSAL

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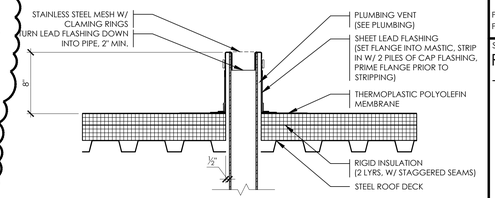


A07 / A155 DETAIL @ HIGH SIDE OF ELEVATOR PENTHOUSE 1 1/2" = 1'-0"

A12 / A155 DETAIL @ LOW SIDE OF ELEVATOR PENTHOUSE 1 1/2" = 1'-0"



D16 / A155 ROOF EQUIPMENT SUPPORT 1 1/2" = 1'-0"



A16 / A155 PLUMBING VENT PENETRATION 1 1/2" = 1'-0"

A01 / A155 TYPICAL TPO DETAILS NTS

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SEAL



CONSULTANT

Shamrock Building Systems, Inc.

CONSTRUCTION FOR:

NEW CONSTRUCTION FOR:
CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS
19TH LANE VERO BEACH, FLORIDA, 32966

DRAWINGS PUBLISHED

	27 APRIL 2023 CONSTRUCTION DOCUMENTS
1	23 AUGUST, 2023 ADDENDUM A
2	17 JUNE, 2025 BULLETIN NO. 01

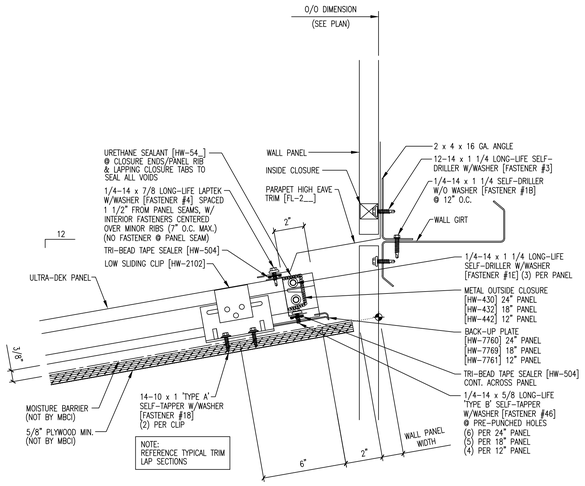
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CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS

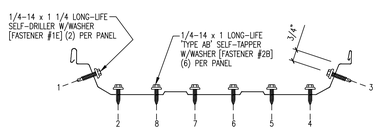
PROJECT 23002
PHASE ----

SHEET TITLE
ROOF DETAILS - BUILDING A

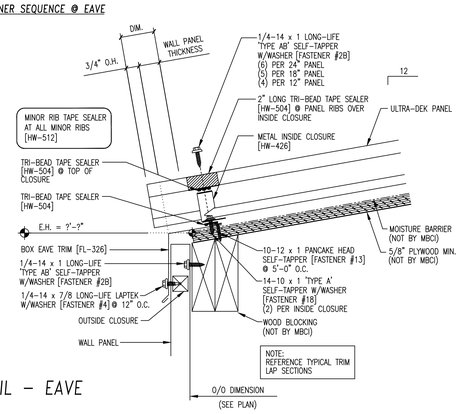
SHEET
A155



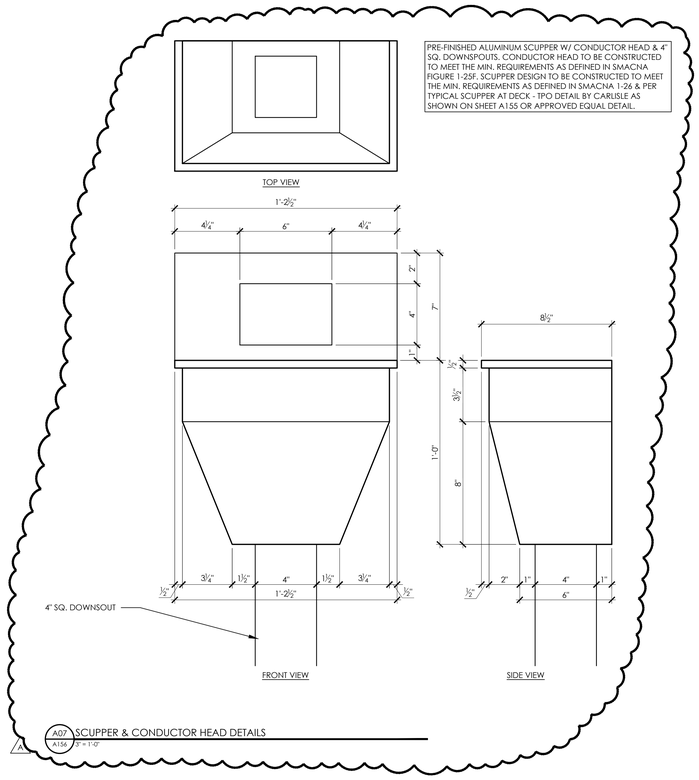
MBCI ULTRA-DEK DETAIL - ROOF TO WALL



FASTENER SEQUENCE @ EAVE



MBCI ULTRA-DEK DETAIL - EAVE



A01 TYPICAL METAL ROOF DETAILS
A156 3" = 1'-0"

A07 SCUPPER & CONDUCTOR HEAD DETAILS
A156 3" = 1'-0"

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MICHAEL P. BOLAND
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REGISTERED ARCHITECT

CONSULTANT

Shamrock Building Systems, Inc.

NEW CONSTRUCTION FOR:
CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS
19TH LANE VERO BEACH, FLORIDA, 32966

DRAWINGS PUBLISHED
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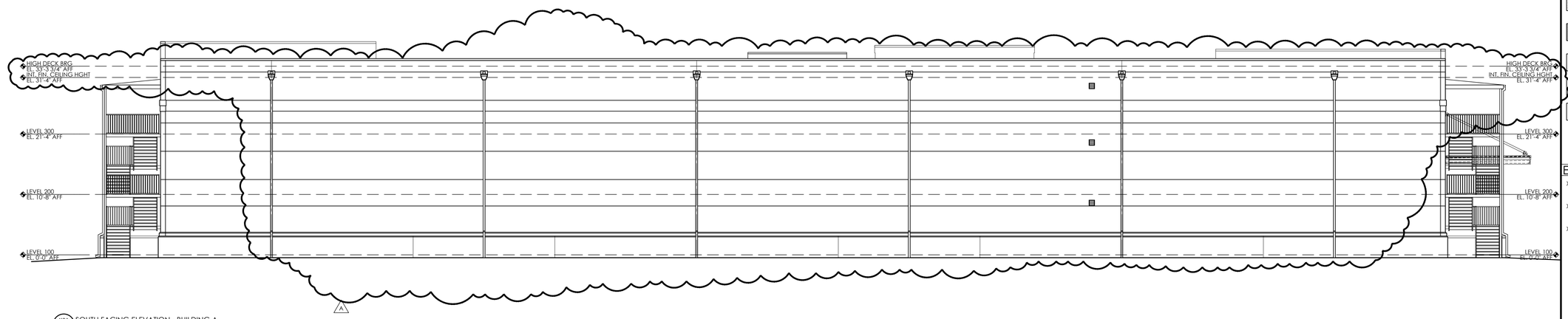
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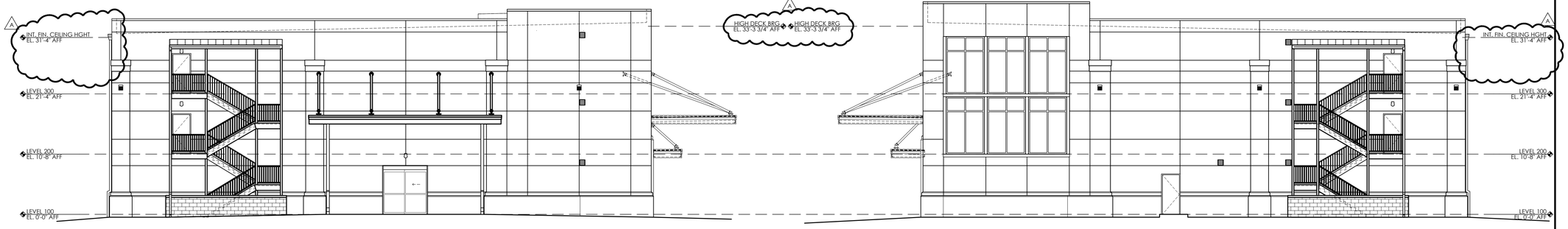
PROJECT 23002
PHASE ----

SHEET TITLE
ROOF DETAILS - BUILDING A

SHEET
A156



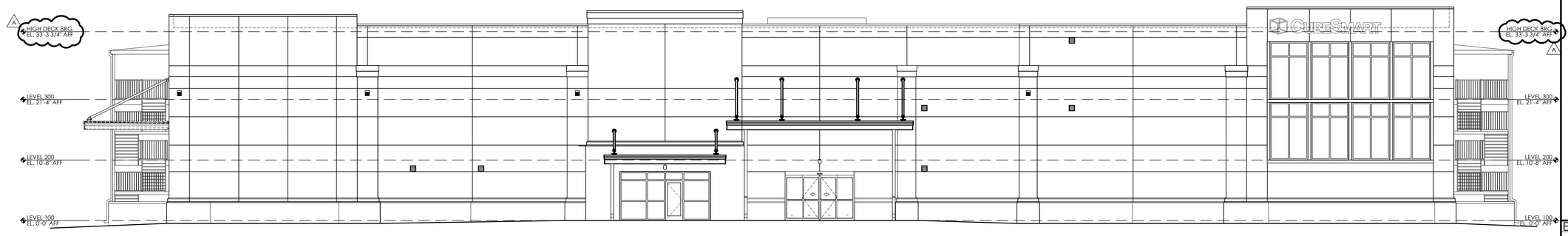
K01 SOUTH FACING ELEVATION - BUILDING A
A201 1/8" = 1'-0"



E01 EAST FACING ELEVATION - BUILDING A
A201 1/8" = 1'-0"



E09 WEST FACING ELEVATION - BUILDING A
A201 1/8" = 1'-0"



A01 NORTH FACING ELEVATION - BUILDING A
A201 1/8" = 1'-0"

EXTERIOR MATERIAL LEGEND

- SPLIT-FACED CMU
  INTEGRALLY COLORED 4X8X16" U.N.O.
  (ALL EXPOSED FACES TO BE SPLIT FACED)
  MANUFACTURER: TBD
  COLOR: CHARCOAL BY BAUER (OR ARCH. APPROVED, EQUAL)
  MORTAR: TO MATCH BLOCK COLOR
- DRAINABLE EIFS SYSTEM - COLOR 1
  DRYVIT OUTSULATION PLUS MD SYSTEM (DRAINABLE)
  COLOR: MATCH SW 7014 EIDER WHITE
  TEXTURE: SANDPEBBLE
- DRAINABLE EIFS SYSTEM - COLOR 2
  DRYVIT OUTSULATION PLUS MD SYSTEM (DRAINABLE)
  COLOR: MATCH SW 7018 DOVETAIL
  TEXTURE: SANDPEBBLE
- COMMERRCIAL CEMENT PLASTER - COLOR 1
  DRYVIT CCP2 (DRAINABLE)
  COLOR: MATCH SW 7014 EIDER WHITE
  TEXTURE: SANDPEBBLE
- METAL ROOFING
  BASIS OF DESIGN: MBCI, ULTRA-DEK
  COLOR: GALVALUME PLUS COATING
- METAL DECKING
  BASIS OF DESIGN: MBCI, PBR
  COLOR: GALVALUME PLUS COATING
- EIFS EXPANSION JOINT OR MASONRY CONTROL JOINT LOCATIONS

EXTERIOR PAINT COLORS

XP01	MANUF.:	SHERMAN WILLIAMS
	COLOR:	SW 7014 EILDER WHITE
	FINISH:	GLOSS
XP02	MANUF.:	SHERMAN WILLIAMS
	COLOR:	SW 7018 DOVETAIL
	FINISH:	GLOSS
XP03	MANUF.:	SHERMAN WILLIAMS
	COLOR:	SW 7020 BLACK FOX
	FINISH:	GLOSS

PRE-FINISHED COLORS

PF01	MATERIAL:	METAL COPINGS/FASCIA
	COLOR:	SW 7014 EIDER WHITE
PF02	MATERIAL:	STOREFRONT & ENTRIES
	COLOR:	DARK BRONZE ANNODIZED
PF03	MATERIAL:	DOWNSPOUTS, GUTTERS & CONDUCTOR HEADS
	COLOR:	SW 7020 BLACK FOX

EXTERIOR NOTES

1) PROVIDE METAL GUTTERS IN KYNAR FINISH; COLOR SELECTION BY ARCHITECTS. GUTTERS SHALL BE MINIMUM 6" ROUND STYLE WITH ROUND DOWNSPOUTS. ROOFER TO SIZE GUTTERS PROPERLY FOR ROOF LOAD. SECURE GUTTER AND DOWNSPOUTS WITH NECESSARY HANGERS, STRAPS, AND ACCESSORIES.

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NEW CONSTRUCTION FOR:
CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS
19TH LANE,VERO BEACH, FLORIDA, 32966

DRAWINGS PUBLISHED
27 APRIL 2023
CONSTRUCTION DOCUMENTS
1 23 AUGUST, 2023
ADDENDUM A

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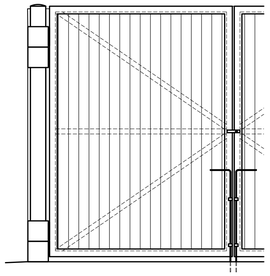
CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS

PROJECT 23002
PHASE ----

SHEET TITLE
EXTERIOR ELEVATIONS - BUILDING A

SHEET
A201

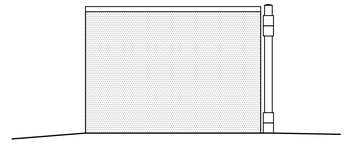
PLOTTED ON 9/26/2023
SK-ARCH-01 (03-08-21-ELEVATIONS)



G08 A202 ENLARGED ELEVATION OF DUMPSTER GATE & POST
1/2" = 1'-0"

A01 A202 ENLARGED ELEVATION @ ENTRY-BUILDING A
1/4" = 1'-0"

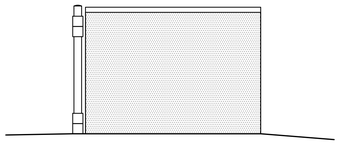
A08 A202 ENLARGED ELEVATION @ GALLERY-BUILDING A
1/4" = 1'-0"



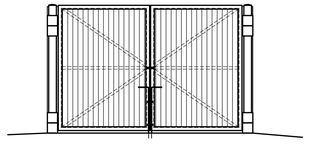
L14 A202 NORTHWEST FACING ELEVATION - DUMPSTER
1/4" = 1'-0"



H14 A202 NORTHEAST FACING ELEVATION - DUMPSTER
1/4" = 1'-0"



D14 A202 SOUTHEAST FACING ELEVATION - DUMPSTER
1/4" = 1'-0"



A14 A202 SOUTHWEST FACING ELEVATION - DUMPSTER
1/4" = 1'-0"

EXTERIOR MATERIAL LEGEND

- SPLIT-FACED CMU
  INTEGRALLY COLORED 4X8X16" U.N.O.
  (ALL EXPOSED FACES TO BE SPLIT FACED)
  MANUFACTURER: TBD
  COLOR: CHARCOAL BY BAUER (OR ARCH. APPROVED, EQUAL)
  MORTAR: TO MATCH BLOCK COLOR
- DRAINABLE EIFS SYSTEM - COLOR 1
  DRYVIT OUTSULATION PLUS MD SYSTEM (DRAINABLE)
  COLOR: MATCH SW 7014 EIDER WHITE
  TEXTURE: SANDPEBBLE
- DRAINABLE EIFS SYSTEM - COLOR 2
  DRYVIT OUTSULATION PLUS MD SYSTEM (DRAINABLE)
  COLOR: MATCH SW 7018 DOVETAIL
  TEXTURE: SANDPEBBLE
- COMMERRCIAL CEMENT PLASTER - COLOR 1
  DRYVIT CCP2 (DRAINABLE)
  COLOR: MATCH SW 7014 EIDER WHITE
  TEXTURE: SANDPEBBLE
- METAL ROOFING
  BASIS OF DESIGN: MBCI, ULTRA-DEK
  COLOR: GALVALUME PLUS COATING
- METAL DECKING
  BASIS OF DESIGN: MBCI, PBR
  COLOR: GALVALUME PLUS COATING
- EIFS EXPANSION JOINT OR MASONRY CONTROL JOINT LOCATIONS

EXTERIOR PAINT COLORS

XP01	MANUF.:	SHERMAN WILLIAMS
	COLOR:	SW 7014 EILDER WHITE
	FINISH:	GLOSS
XP02	MANUF.:	SHERMAN WILLIAMS
	COLOR:	SW 7018 DOVETAIL
	FINISH:	GLOSS
XP03	MANUF.:	SHERMAN WILLIAMS
	COLOR:	SW 7020 BLACK FOX
	FINISH:	GLOSS

PRE-FINISHED COLORS

PF01	MATERIAL:	METAL COPINGS/FASCIA
	COLOR:	SW 7014 EIDER WHITE
PF02	MATERIAL:	STOREFRONT & ENTRIES
	COLOR:	DARK BRONZE ANNODIZED
PF03	MATERIAL:	DOWNSPOUTS, GUTTERS & CONDUCTOR HEADS
	COLOR:	SW 7020 BLACK FOX

EXTERIOR NOTES

1) PROVIDE METAL GUTTERS IN KYNAR FINISH; COLOR SELECTION BY ARCHITECTS. GUTTERS SHALL BE MINIMUM 6" ROUND STYLE WITH ROUND DOWNSPOUTS. ROOFER TO SIZE GUTTERS PROPERLY FOR ROOF LOAD. SECURE GUTTER AND DOWNSPOUTS WITH NECESSARY HANGERS, STRAPS, AND ACCESSORIES.

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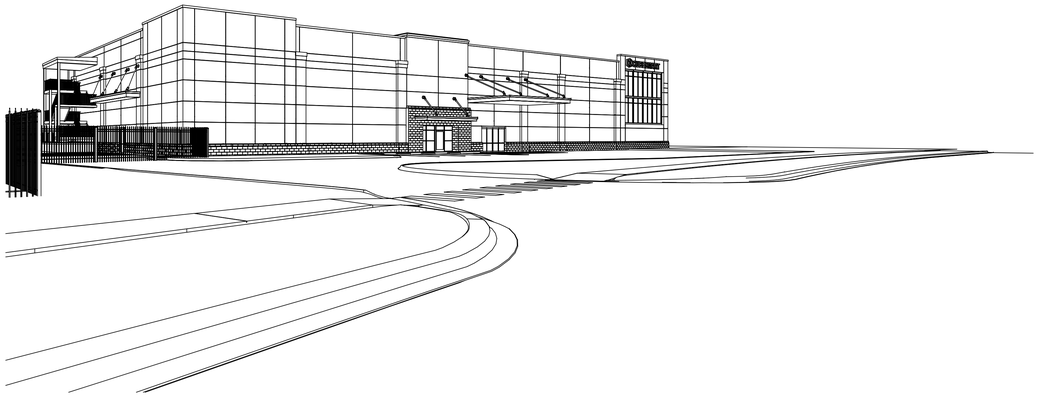
CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS

PROJECT 23002
PHASE ----

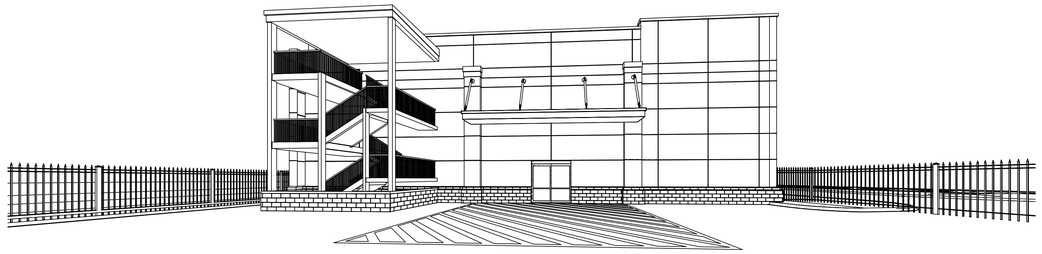
SHEET TITLE
ENLARGED ELEVATIONS - BUILDING A & DUMPSTER ELEVATIONS

SHEET
A202

PLOTTED ON 5/4/2023
SB ARCHITECTURE & DESIGN (MAVIS)



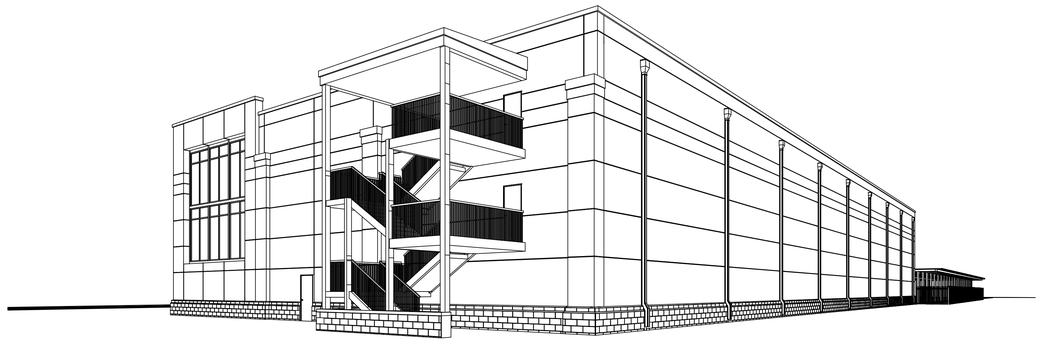
F01 A221 PERSPECTIVE VIEW LOOKING NORTHWEST
NTS



F11 A221 PERSPECTIVE VIEW LOOKING NORTH
NTS



A01 A221 PERSPECTIVE VIEW LOOKING SOUTHWEST
NTS



A10 A221 PERSPECTIVE VIEW LOOKING SOUTHEAST
NTS

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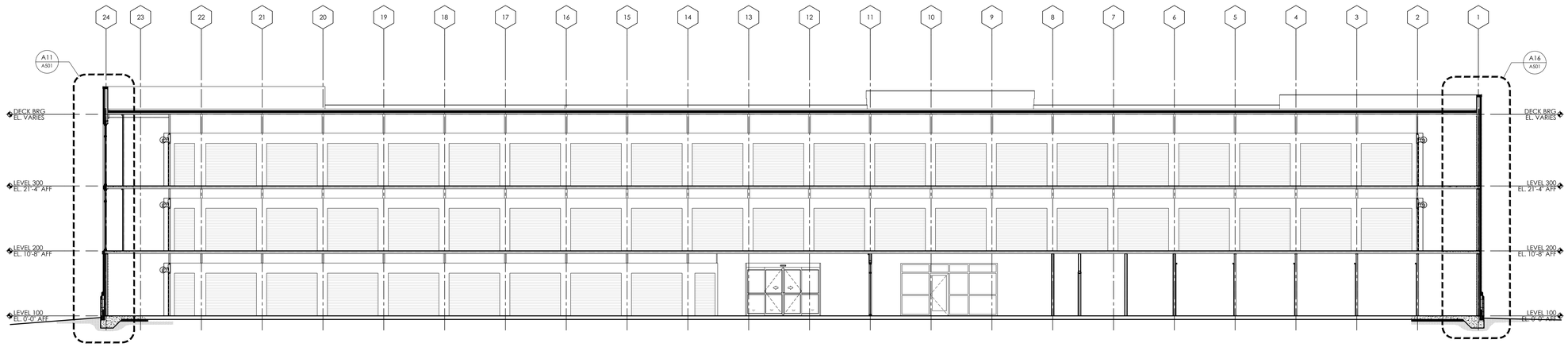
CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS

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PHASE ----

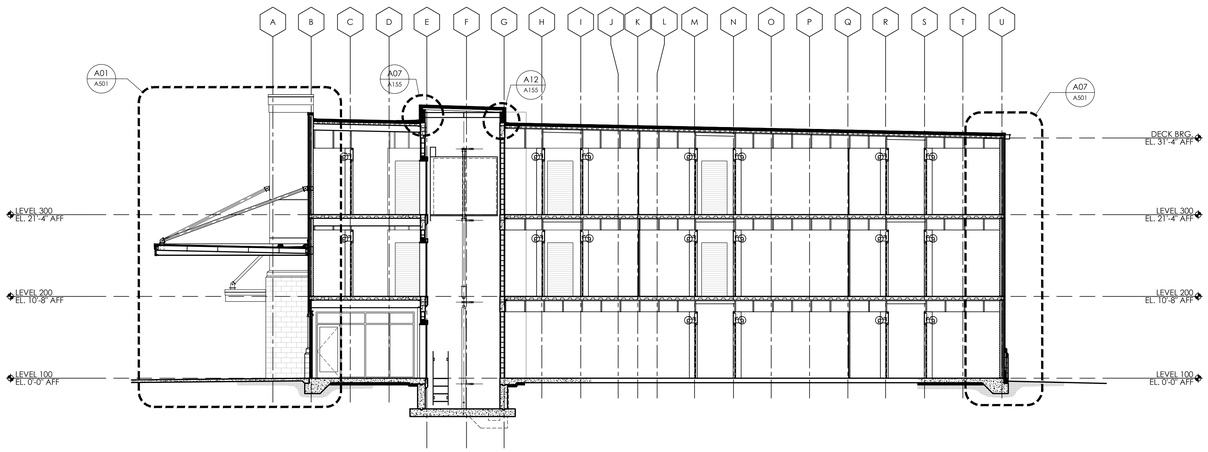
SHEET TITLE
EXTERIOR PERSPECTIVE VIEWS

SHEET
A221

ALL ARCH D (24X36 ALLOWED)



F01 BUILDING SECTION BTWN CL C & D
A501 1/8" = 1'-0"



A01 BUILDING SECTION THRU ENTRY & ELEVATOR
A501 1/8" = 1'-0"

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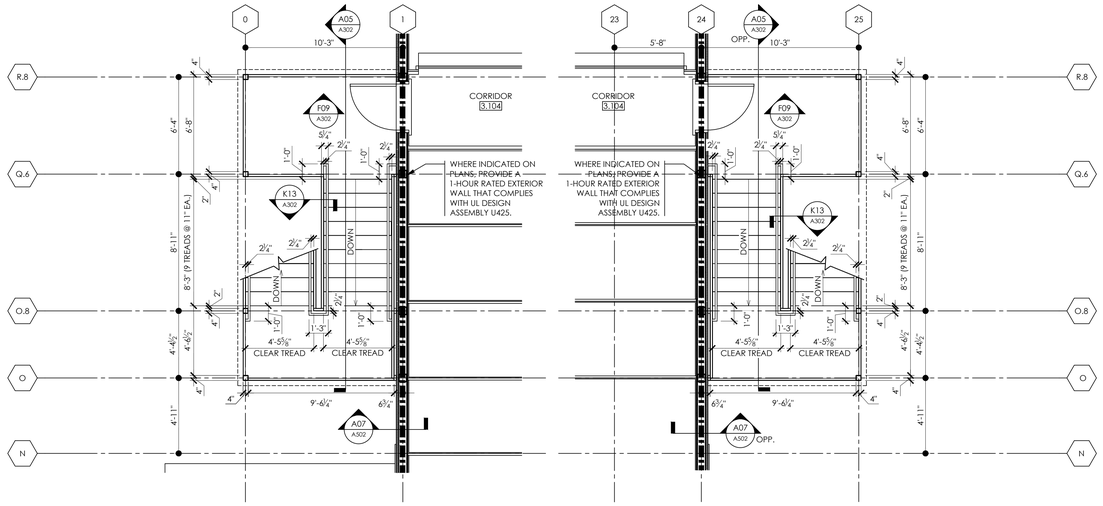
CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS

PROJECT 23002
PHASE ----

SHEET TITLE
BUILDING SECTIONS - BUILDING A

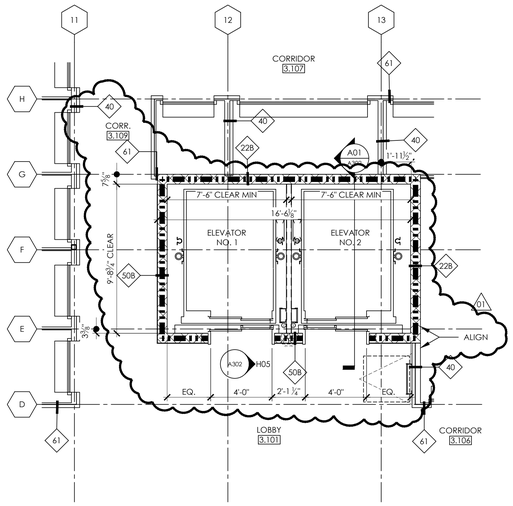
SHEET
A251

PLOTTED ON 4/26/2023
SE SMITH BOLAND ARCHITECTS

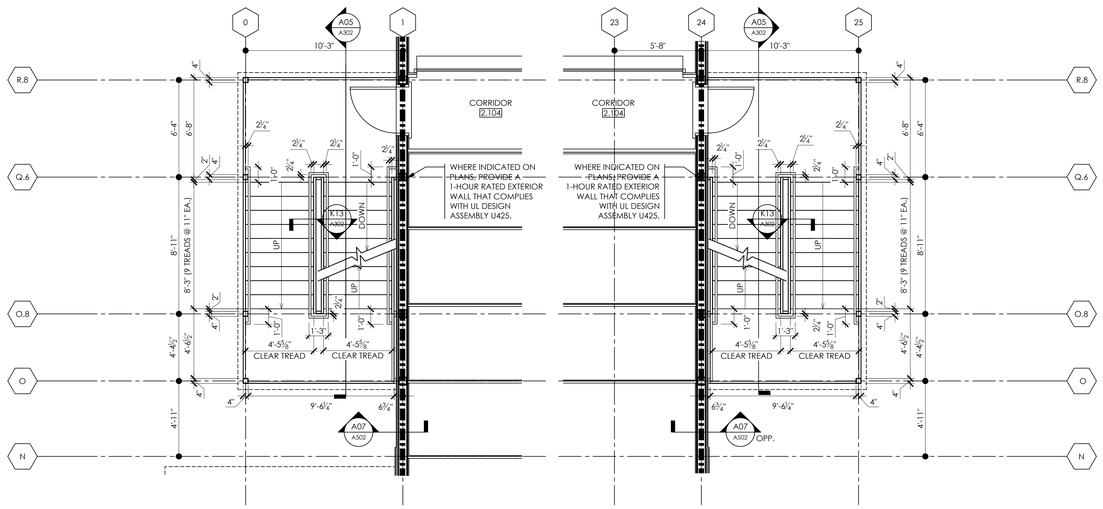


K01 A301 STAIR 1 - LEVEL 300 PLAN
1/4" = 1'-0"

K05 A301 STAIR 2 - LEVEL 300 PLAN
1/4" = 1'-0"

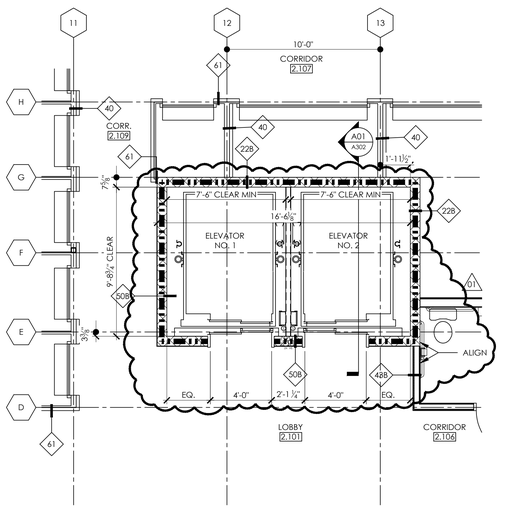


K10 A301 ELEVATOR PLAN - LEVEL 300
1/4" = 1'-0"

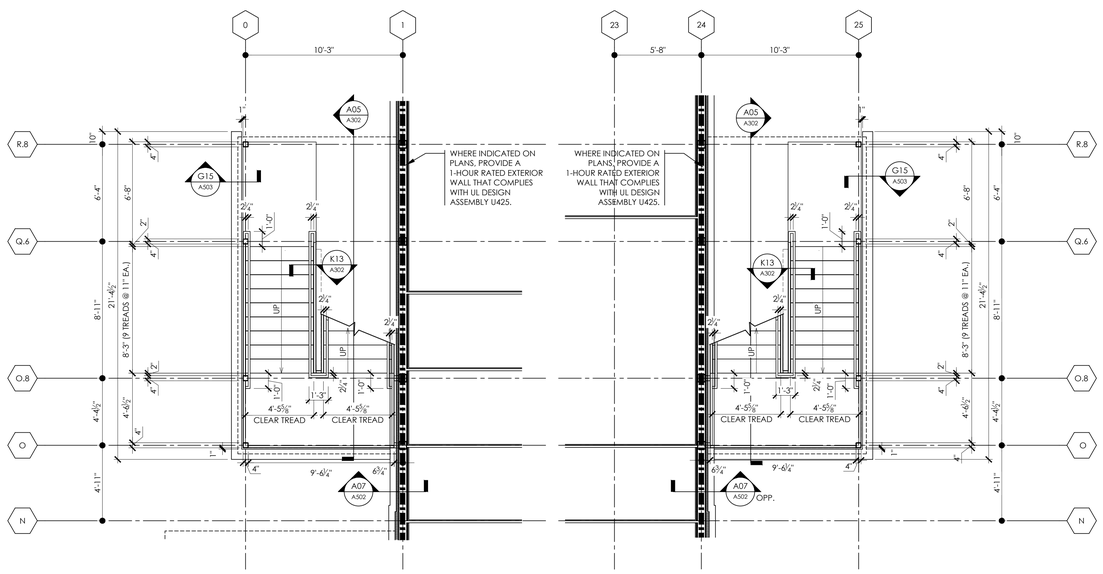


F01 A301 STAIR 1 - LEVEL 200 PLAN
1/4" = 1'-0"

F05 A301 STAIR 2 - LEVEL 200 PLAN
1/4" = 1'-0"

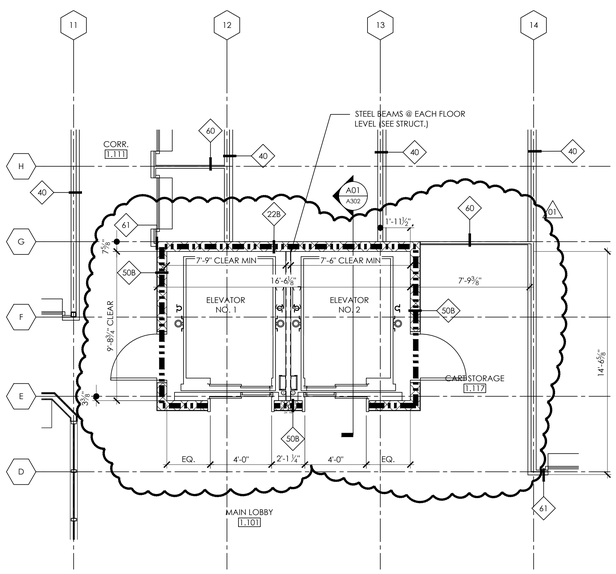


F10 A301 ELEVATOR PLAN - LEVEL 200
1/4" = 1'-0"



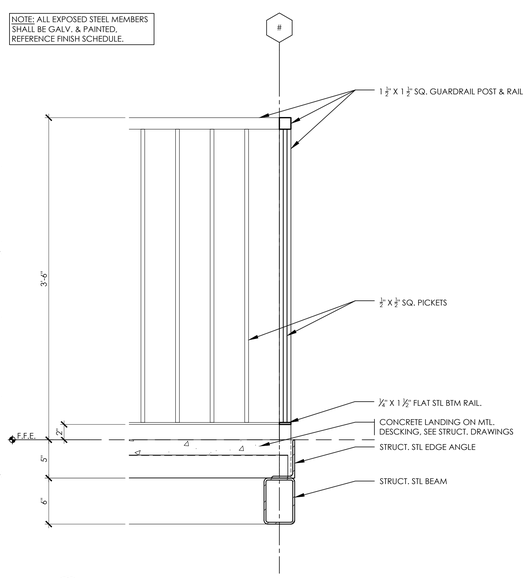
A01 A301 STAIR 1 - LEVEL 100 PLAN
1/4" = 1'-0"

A05 A301 STAIR 2 - LEVEL 100 PLAN
1/4" = 1'-0"



A10 A301 ELEVATOR PLAN - LEVEL 100
1/4" = 1'-0"

NOTE: ALL EXPOSED STEEL MEMBERS SHALL BE GALV. & PAINTED. REFERENCE FINISH SCHEDULE.



A15 A301 SECTION THRU EXTERIOR STAIR LANDING
1 1/2" = 1'-0"

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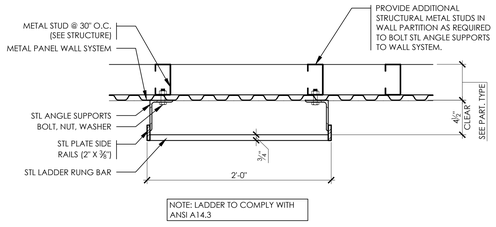
CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS

PROJECT 23002
PHASE ----

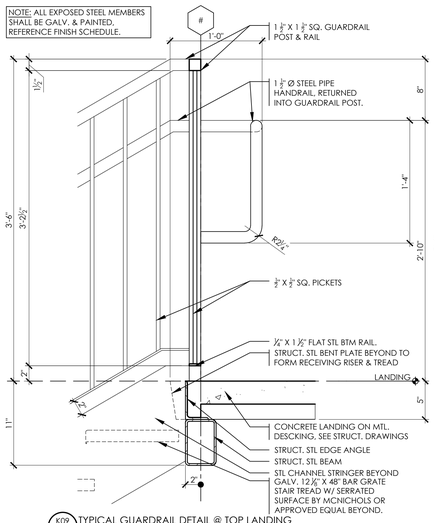
SHEET TITLE
VERTICAL CIRCULATION PLANS & SECTIONS - BUILDING A

SHEET
A301

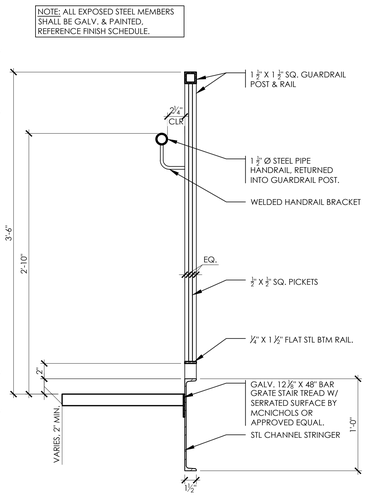
PLOTTED ON 6/17/2025
SHEET SET (2023) 4 (DEPARTURE)



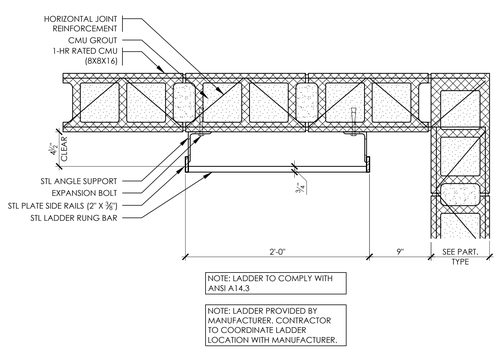
M05 A302 SECTION THRU ROOF ACCESS LADDER
1 1/2" = 1'-0"



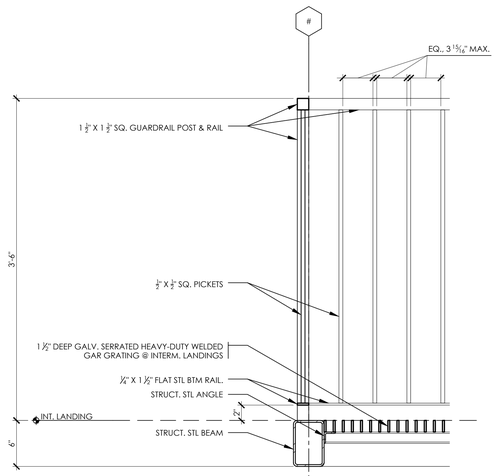
K09 A302 TYPICAL GUARDRAIL DETAIL @ TOP LANDING
1 1/2" = 1'-0"



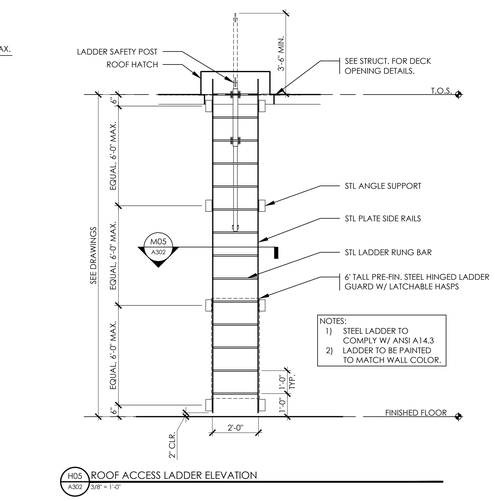
K13 A302 TYPICAL STAIR STRINGER DETAIL
1 1/2" = 1'-0"



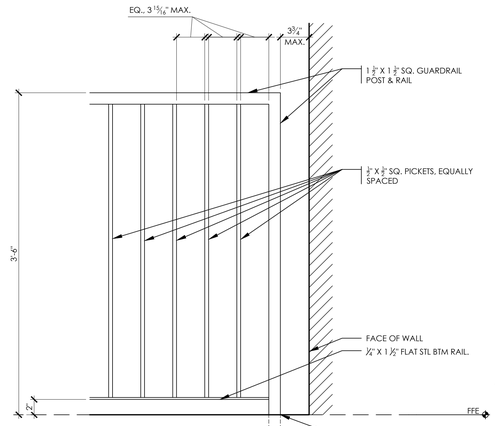
K16 A302 SECTION THRU ELEVATOR PIT LADDER
1 1/2" = 1'-0"



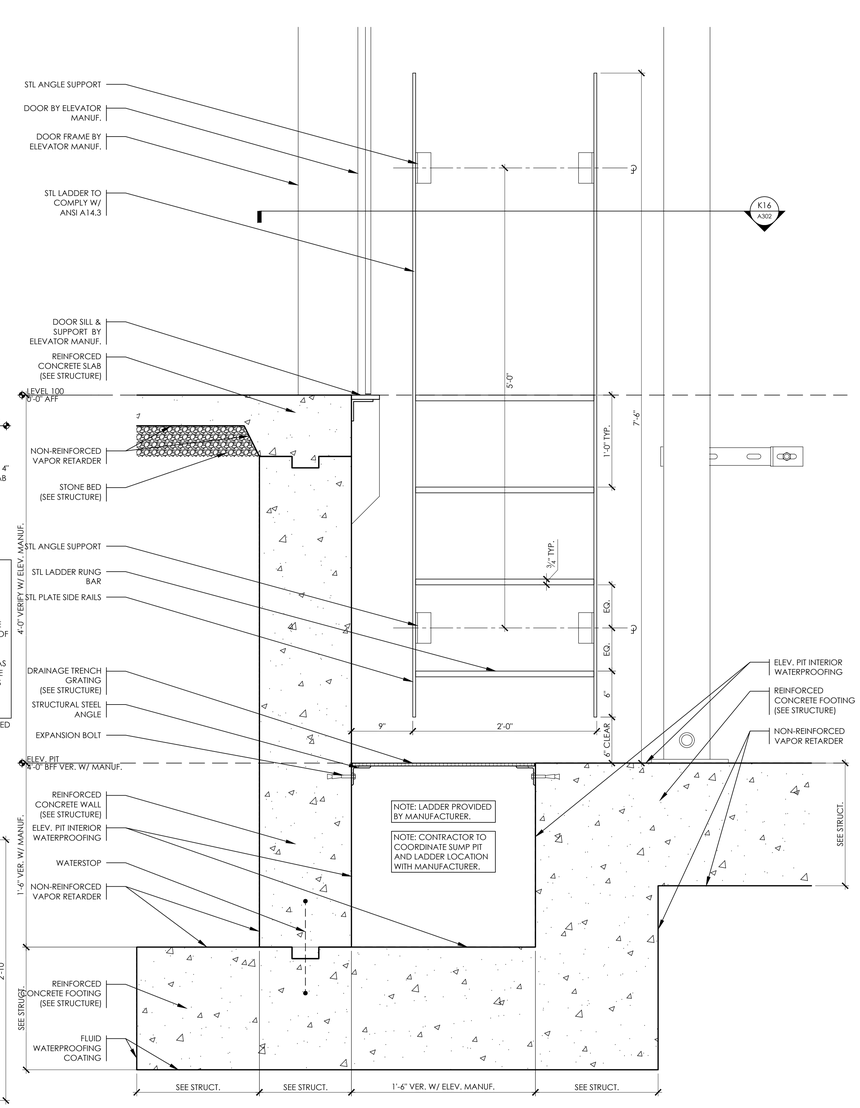
H01 A302 SECTION THRU INTERMEDIATE LANDING & GUARDRAIL
1 1/2" = 1'-0"



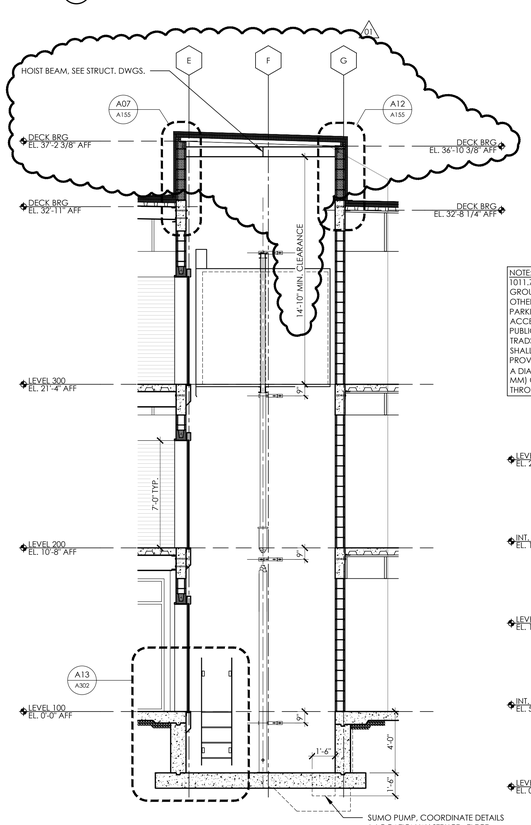
H05 A302 ROOF ACCESS LADDER ELEVATION
3/8" = 1'-0"



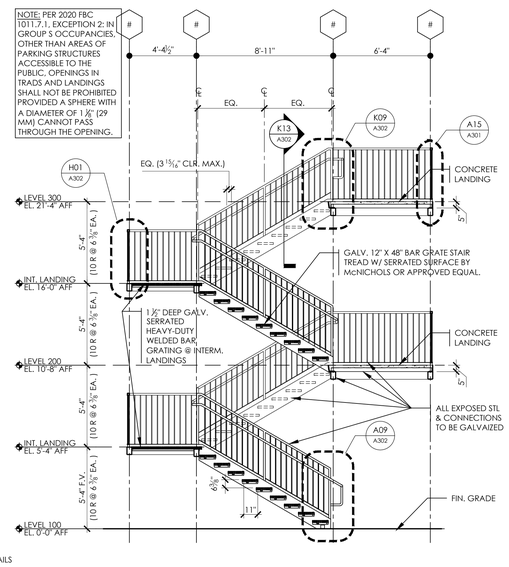
F09 A302 TYPICAL GUARDRAIL TERMINATION DETAIL
1 1/2" = 1'-0"



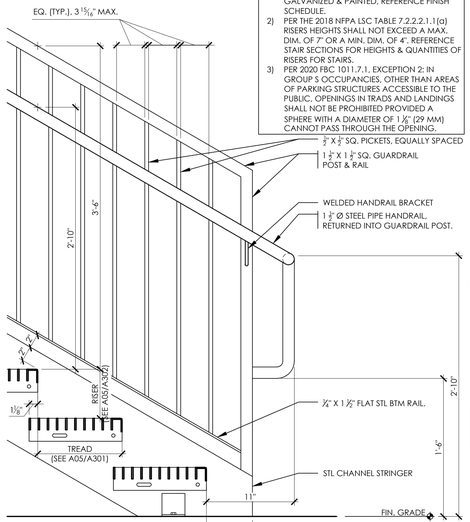
A13 A302 SECTION @ ELEVATOR PIT
1 1/2" = 1'-0"



A01 A302 SECTION THRU DOUBLE ELEVATOR - BUILDING A
1/4" = 1'-0"



A05 A302 TYPICAL SECTION THRU STAIR
1/4" = 1'-0"



A09 A302 TYPICAL DETAIL THRU STAIRS
1 1/2" = 1'-0"

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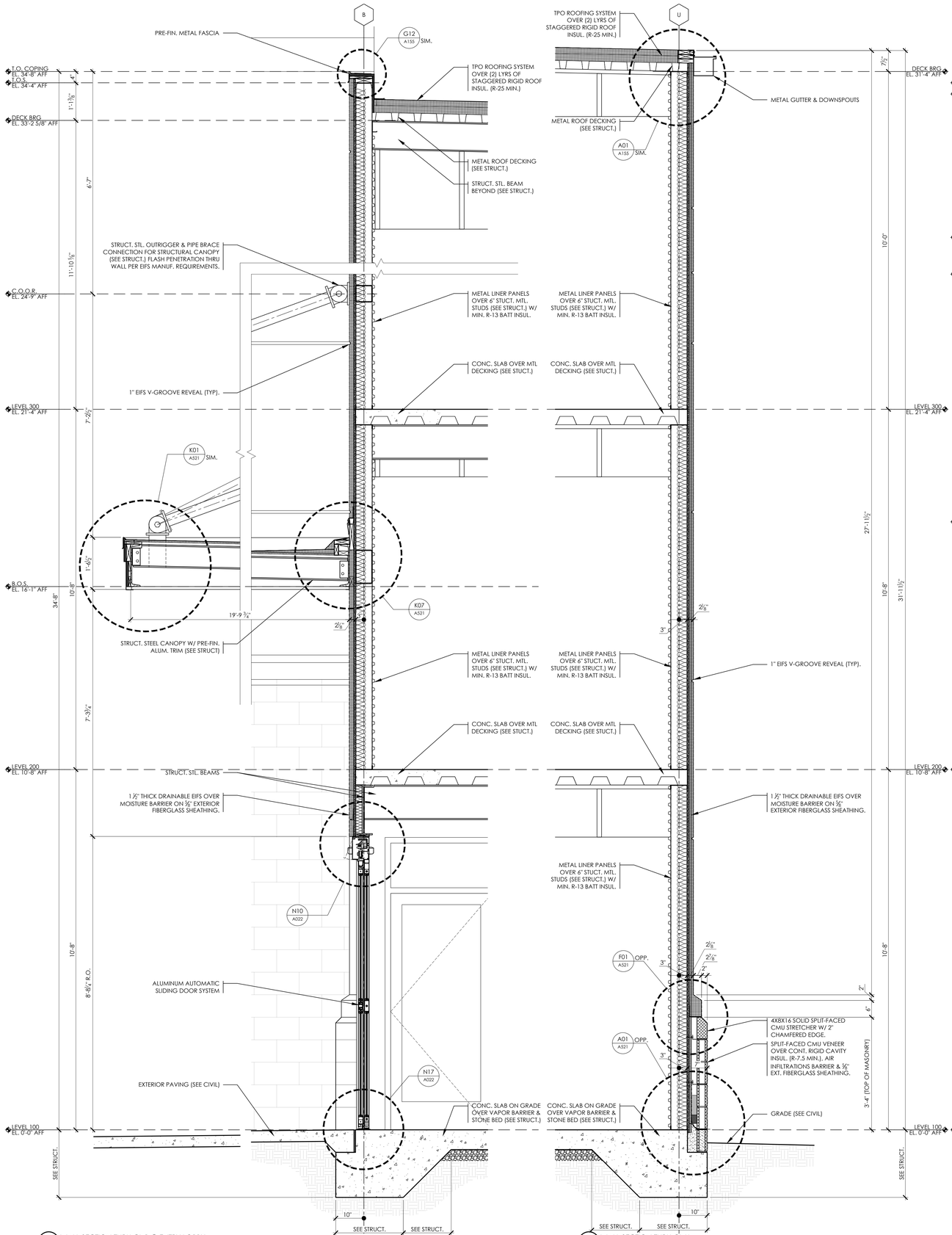
CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS

PROJECT 23002
PHASE ----

SHEET TITLE
VERTICAL CIRCULATION SECTIONS & DETAILS - BUILDING A

SHEET
A302

PLOTTED ON 6/17/2025
SB ARCH 01 (ED) 36 X 48 (ARCH E1).DWG



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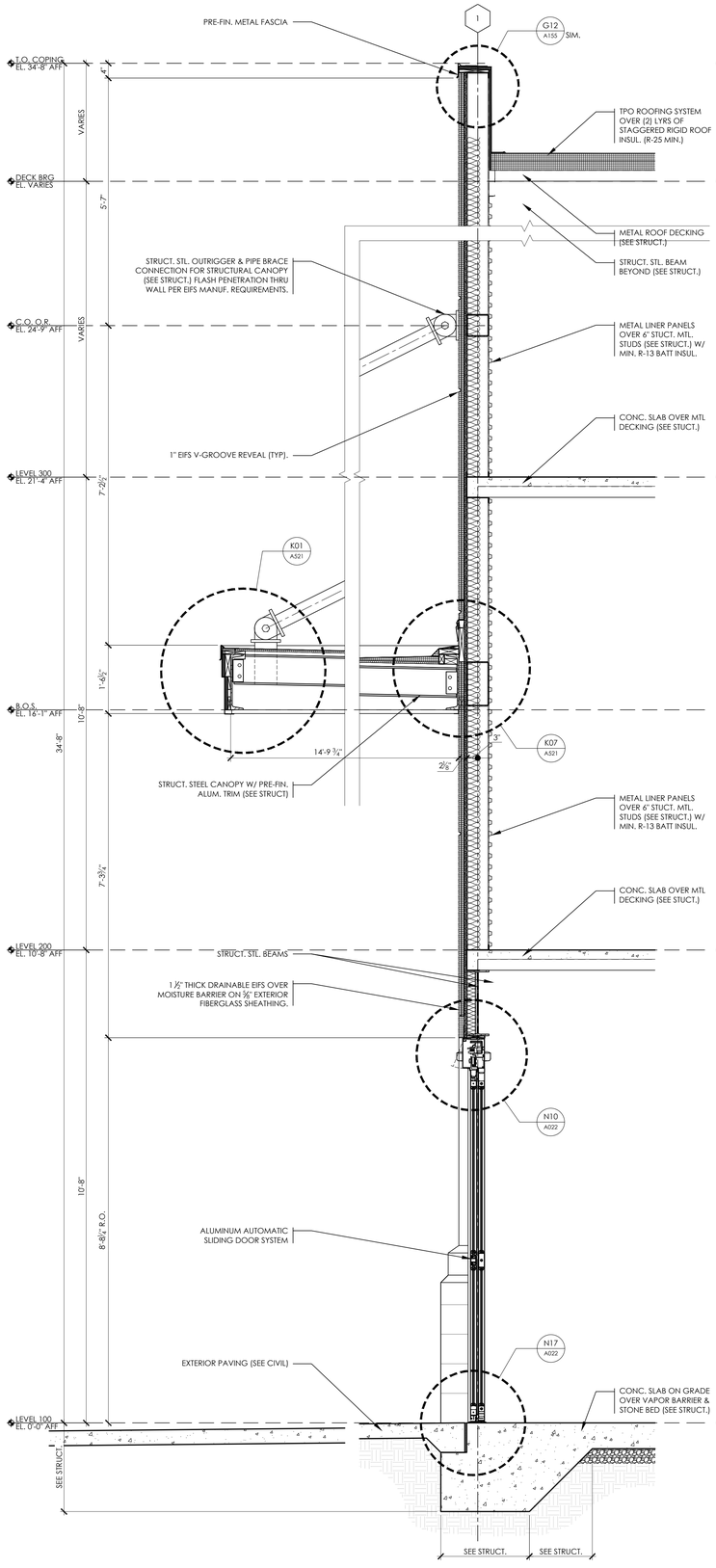
CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS

PROJECT 23002
PHASE ----

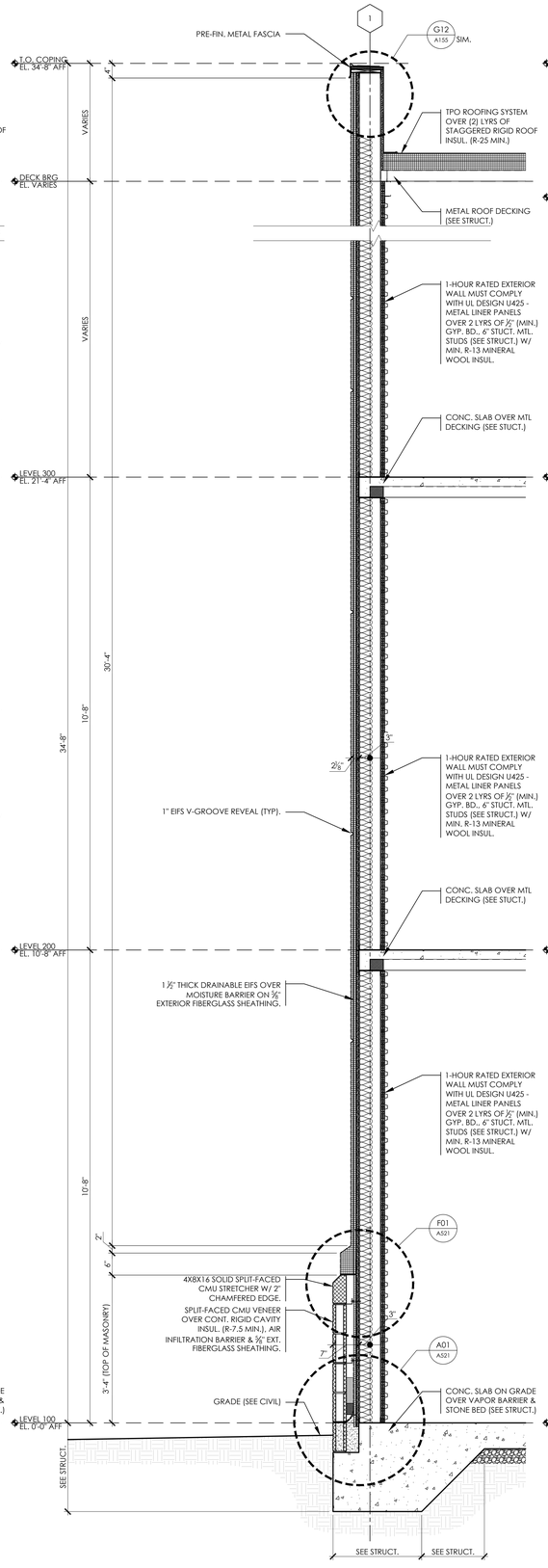
SHEET TITLE
WALL SECTIONS - BUILDING A

SHEET
A501

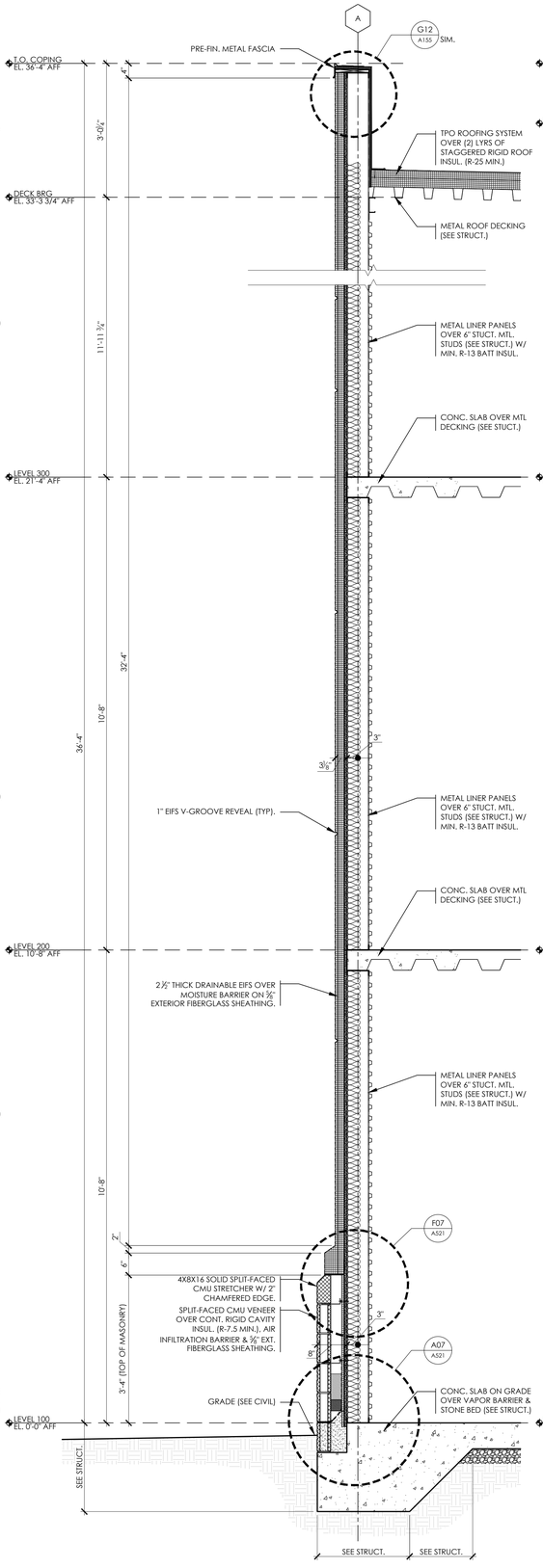
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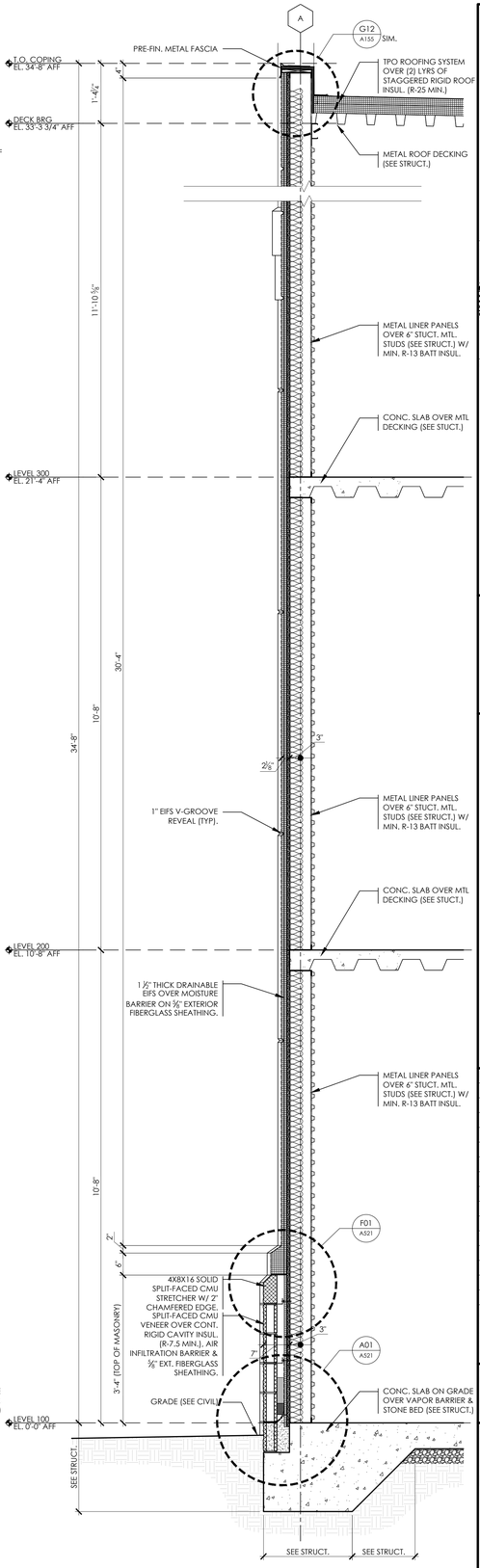
A01 / A502 WALL SECTION THRU CL 1 @ AUXILLARY LOBBY
3/4" = 1'-0"



A07 / A502 WALL SECTION THRU CL 1 @ RATED EXTERIOR WALL
3/4" = 1'-0"



A11 / A502 WALL SECTION THRU CL A BTWN CLS 2 & 3
3/4" = 1'-0"



A16 / A502 WALL SECTION THRU CL A BTWN CLS 5 & 6
3/4" = 1'-0"

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NEW CONSTRUCTION FOR:
CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS
19TH LANE VERO BEACH, FLORIDA, 32966

DRAWINGS PUBLISHED
27 APRIL 2023
CONSTRUCTION DOCUMENTS

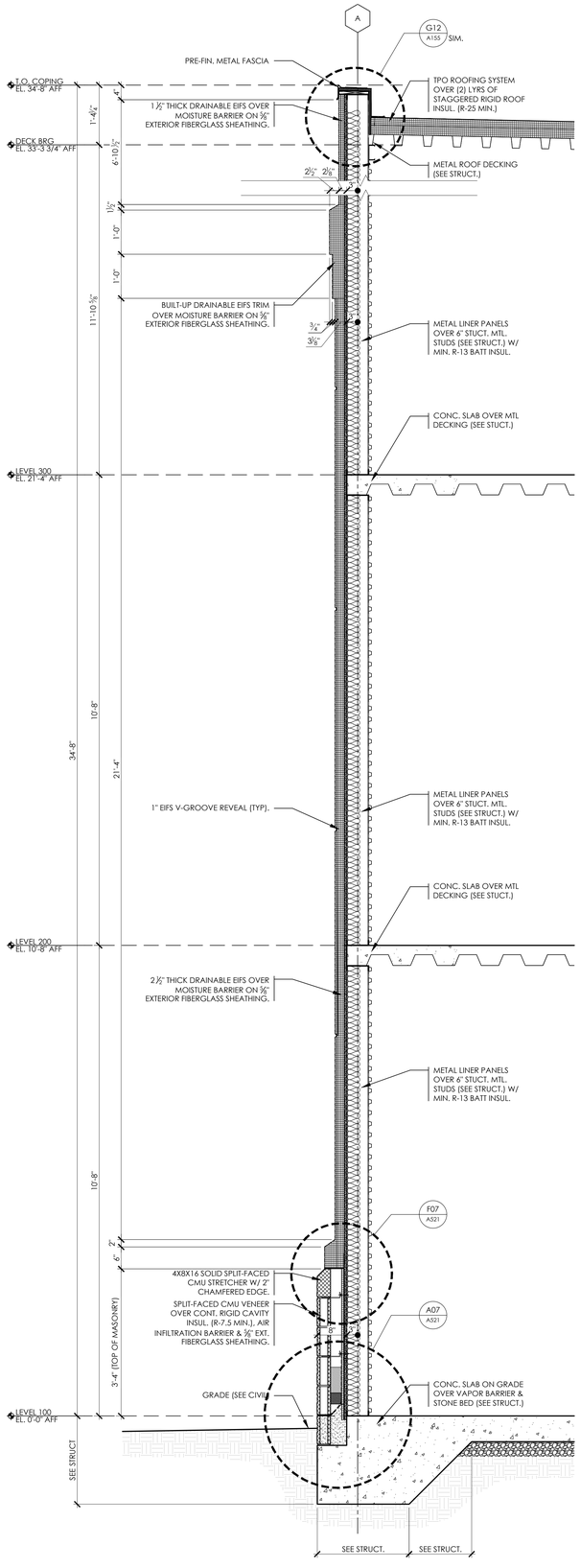
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CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS
PROJECT 23002
PHASE ----

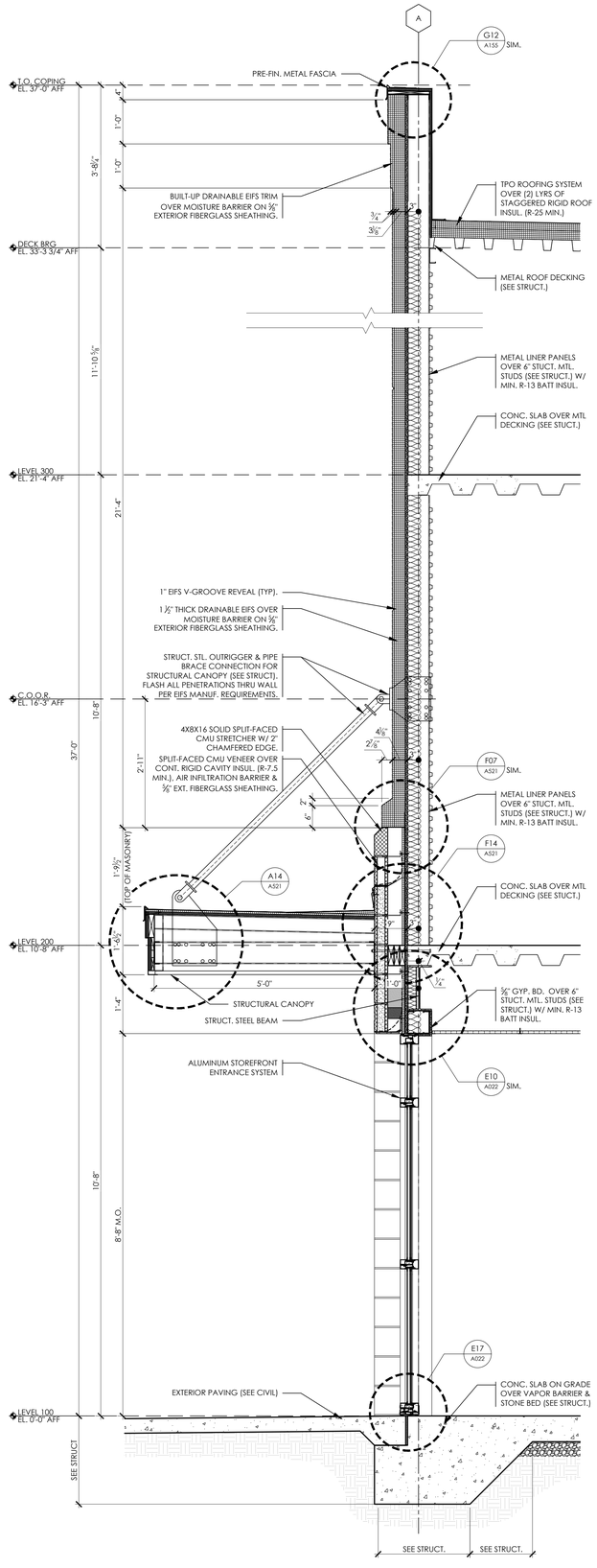
SHEET TITLE
WALL SECTIONS - BUILDING A

SHEET
A502

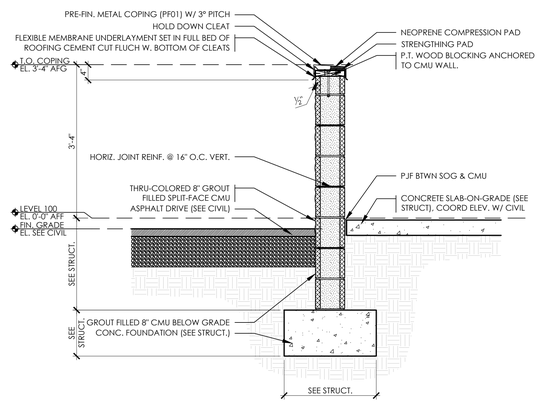
PLOTTED ON 4/26/2023
3/4" = 1'-0" (ARCH D SHEETS)



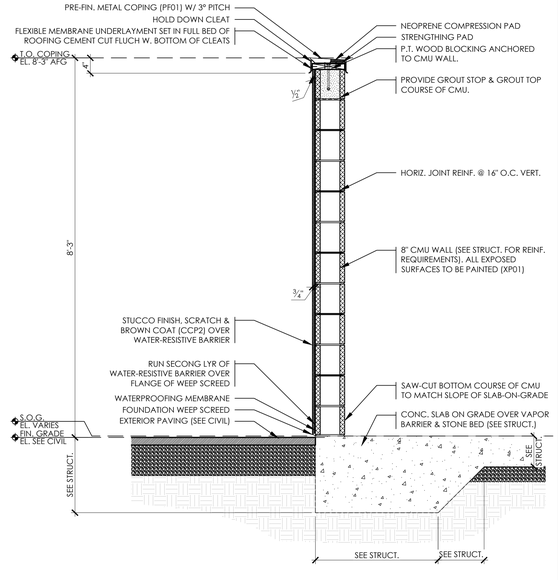
A01 WALL SECTION THRU CL A @ OFFICE
A503 3/4" = 1'-0"



A06 WALL SECTION THRU CL A @ OFFICE ENTRY CANOPY
A503 3/4" = 1'-0"



G15 WALL SECTION THRU LOW STAIR WALL
A503 3/4" = 1'-0"



A15 TYP. DUMPSTER WALL SECTION
A503 3/4" = 1'-0"

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NEW CONSTRUCTION FOR:
CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS
19TH LANE VERO BEACH, FLORIDA, 32966

DRAWINGS PUBLISHED
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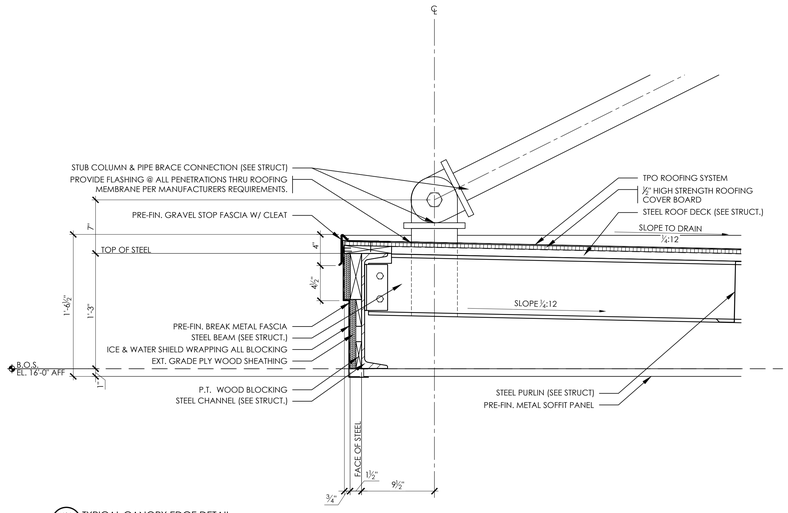
CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS

PROJECT 23002
PHASE ----

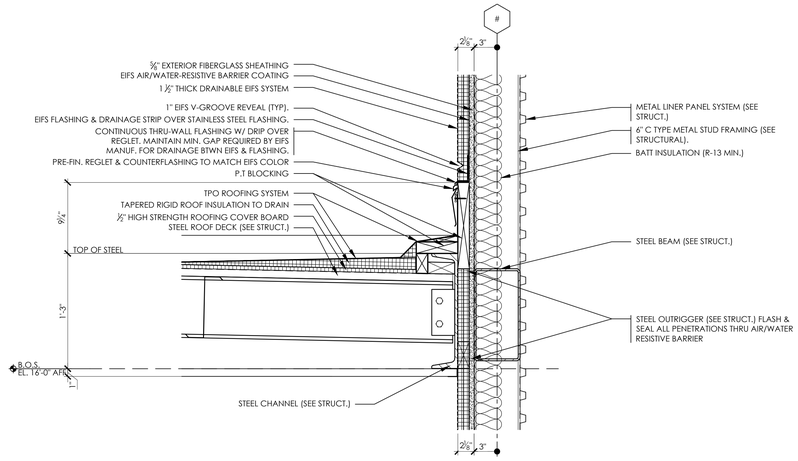
SHEET TITLE
WALL SECTIONS - BUILDING A

SHEET
A503

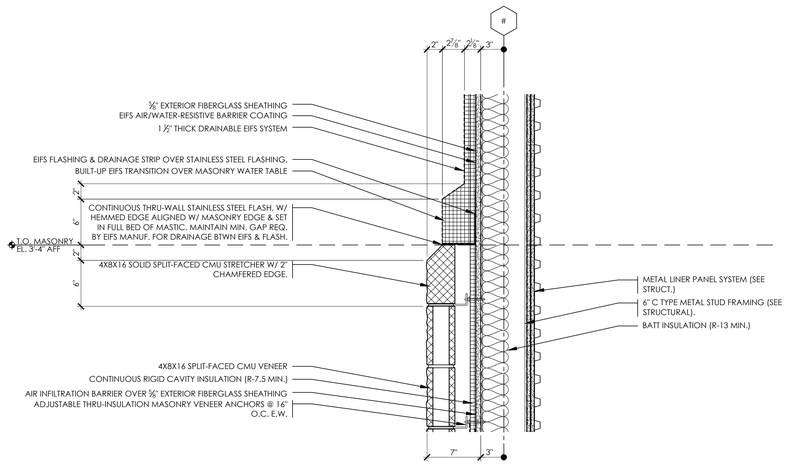
PLOTTED ON 04/26/23
SMITH BOLAND ARCHITECTS



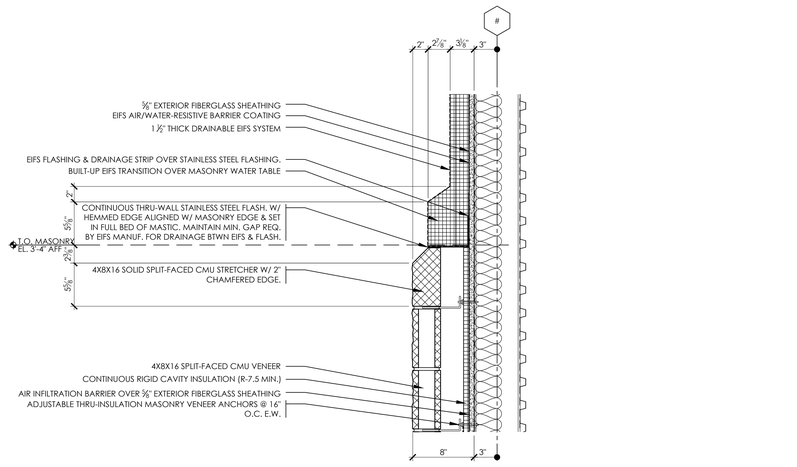
K01 TYPICAL CANOPY EDGE DETAIL
A521 1 1/2" = 1'-0"



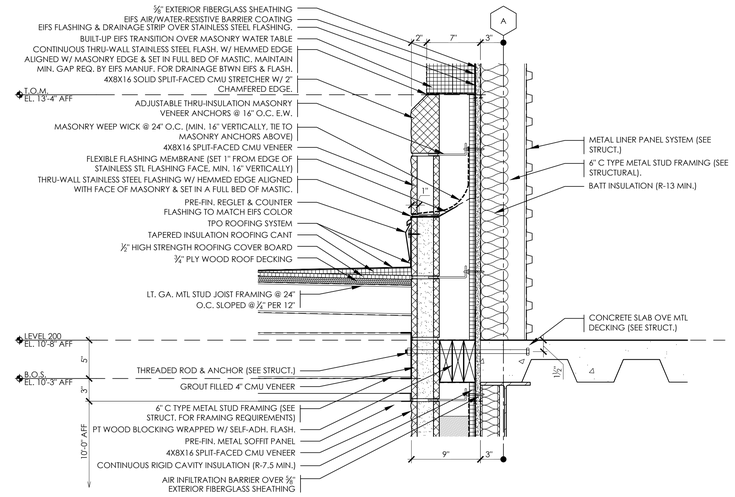
K07 TYPICAL CANOPY CONNECTION TO WALL
A521 1 1/2" = 1'-0"



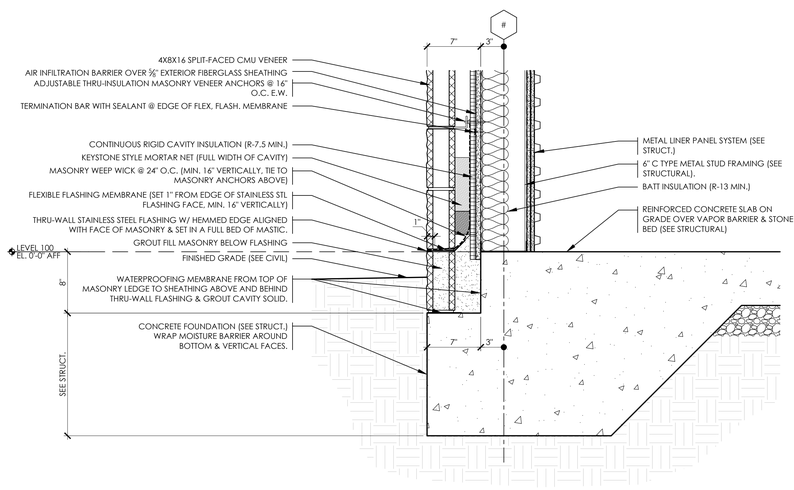
F01 TYPICAL WATER TABLE DETAIL
A521 1 1/2" = 1'-0"



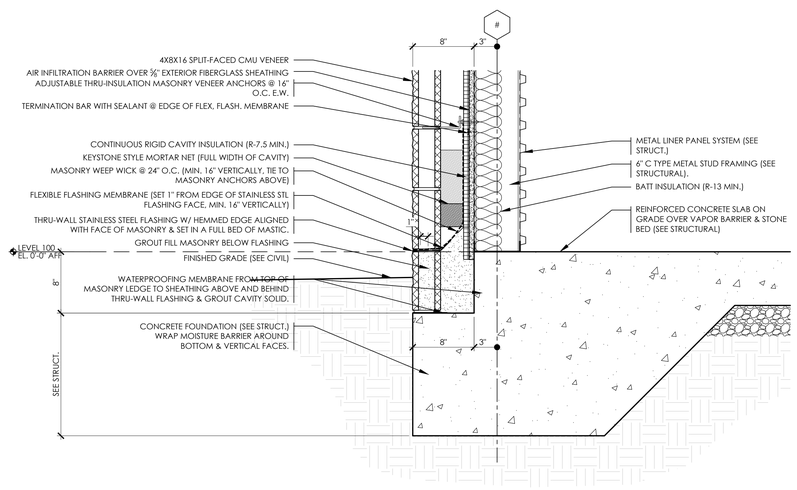
F07 WATER TABLE DETAIL @ THICKENED WALL
A521 1 1/2" = 1'-0"



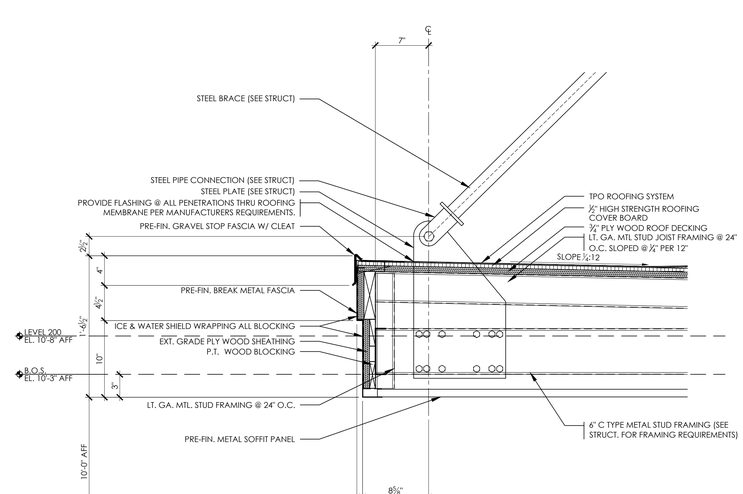
F14 SHORT CANOPY CONNECTION TO WALL
A521 1 1/2" = 1'-0"



A01 TYPICAL FOUNDATION DETAIL
A521 1 1/2" = 1'-0"



A07 FOUNDATION DETAIL @ THICKENED WALL
A521 1 1/2" = 1'-0"



A14 SHORT CANOPY EDGE DETAIL
A521 1 1/2" = 1'-0"

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NEW CONSTRUCTION FOR:
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19TH LANE,VERO BEACH, FLORIDA, 32966

DRAWINGS PUBLISHED
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CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS

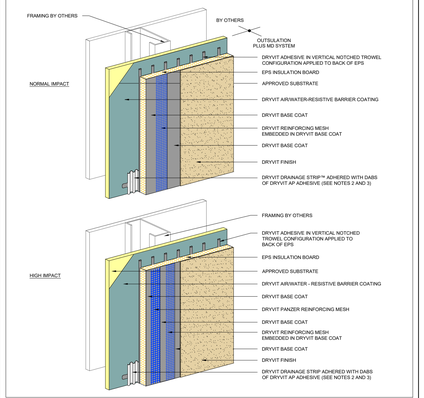
PROJECT 23002
PHASE ----

SHEET TITLE
SECTION DETAILS - BUILDING A

SHEET
A521

PLOTTED ON 4/26/2023
SM ARCH ST (ED) 36 X 24 (ARCH PLANS).DWG

OPMD 0.0.01



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NOTE:
1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD OR STANDARD PLUS MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.

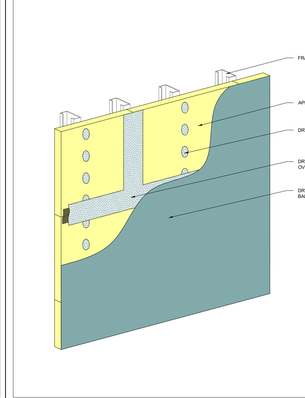
2. AS AN OPTION DRYVIT DRAINAGE TRACK™ CAN BE USED AT SYSTEM TERMINATION AT GRADE. REFER TO OPMD 0.0.08 FOR CONFIGURATION.

3. DRYVIT DRAINAGE TRACK SHALL ONLY BE USED AT GRADE LEVEL TERMINATIONS.

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OPMD 0.0.02



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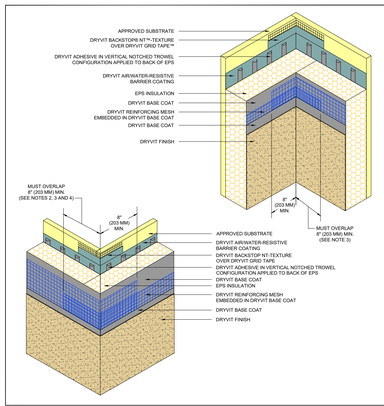
AWRB Application

NOTE:
1. FOR ADDITIONAL AIR/WATER-RESISTIVE BARRIER DETAILS, REFER TO DRYVIT PUBLICATION DS640.

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OPMD 0.0.06



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Inside/Outside Corners

NOTE:
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2. DOUBLE WRAP OUTSIDE CORNERS WITH REINFORCING MESH OR USE CORNER MESH.

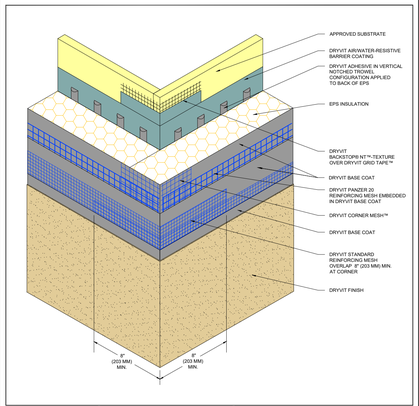
3. DO NOT LAP REINFORCING MESH WITHIN 8" (203 MM) OF A CORNER.

4. OUTSIDE INSULATION BOARD EDGES SHALL BE OFFSET.

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Outside Corner-High Impact

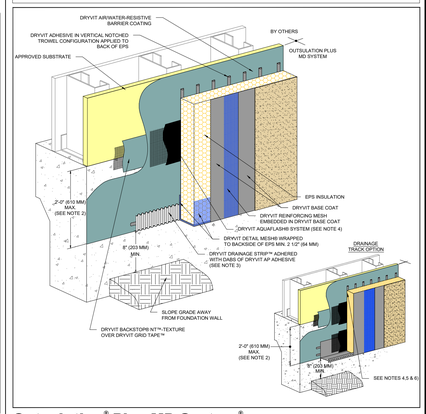
NOTE:
1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD OR STANDARD PLUS MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.

2. OUTSIDE INSULATION BOARD EDGES SHALL BE OFFSET.

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OPMD 0.0.08



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Grade Termination

NOTE:
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2. EXPANSION JOINT IS REQUIRED ALONG TOP OF FOUNDATION IF 2'-0" (610 MM) DIMENSION IS EXCEEDED.

3. ENSURE BOTTOM EDGE OF DRAINAGE STRIP IS LEFT FREE TO DRAIN.

4. DRYVIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED IN LIEU OF DRYVIT AQUAFLASH SYSTEM.

5. DRAINAGE TRACK USAGE IS LIMITED TO THE BASE OF THE SYSTEM AT FINISHED GRADE LEVEL.

6. LIGHTLY SAND SURFACE OF DRAINAGE TRACK TO MAXIMIZE ADHESION.

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OPMD 0.0.09

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Termination At Concrete Curb

NOTE:
1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD OR STANDARD PLUS MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.

2. ENSURE BOTTOM EDGE OF DRAINAGE STRIP IS LEFT FREE TO DRAIN.

3. LIGHTLY SAND SURFACE OF DRAINAGE TRACK TO MAXIMIZE ADHESION.

4. DRYVIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED IN LIEU OF DRYVIT AQUAFLASH® SYSTEM.

5. DRYVIT DRAINAGE TRACK SHALL ONLY BE USED AT GRADE LEVEL TERMINATIONS.

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OPMD 0.0.10

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Termination At ADA Compliant Sidewalk

NOTE:
1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD OR STANDARD PLUS MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.

2. USE OF THIS DETAIL IS LIMITED TO SLAB-ON-GRADE APPLICATIONS.

3. INCORPORATE MEASURES TO PROTECT STRUCTURE FROM MOISTURE INTRUSION, DAMPNESS, AND FROST HEAVE.

4. TO PREVENT DEBRIS ACCUMULATION, IT IS RECOMMENDED TO TERMINATE SYSTEM 2" ABOVE SIDEWALK.

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OPMD 0.0.17

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Termination at Waterproof Deck

NOTE:
1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD OR STANDARD PLUS MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.

2. ENSURE BOTTOM EDGE OF DRAINAGE STRIP IS LEFT FREE TO DRAIN.

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OPMD 0.0.18

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Preparation At Parapet/ Wall Intersection

NOTE:
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2. DRYVIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED IN LIEU OF DRYVIT AQUAFLASH SYSTEM.

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Termination At Parapet - Cap Flashing

NOTE:
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2. DRYVIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED IN LIEU OF DRYVIT AQUAFLASH SYSTEM.

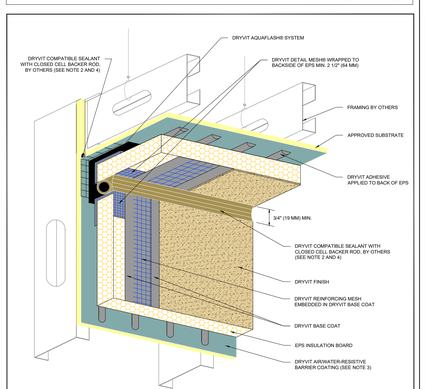
3. EDGE WRAPPING METHOD IS ACCEPTABLE IN LIEU OF BACK WRAPPING. DRYVIT REINFORCING MESH MUST BE FULLY EMBEDDED IN DRYVIT BASE COAT AT EDGE AND EXTEND ONTO SUBSTRATE 2 1/2".

4. MAXIMUM THICKNESS OF EPS BUILT OUT SHAPES SHALL NOT EXCEED 12" (305 MM) AT ANY POINT MEASURED FROM THE SUBSTRATE.

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OPMD 0.0.23



Outsulation® Plus MD System®

Vertical Wall/ Suspended Soffit Transition

NOTE:
1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD OR STANDARD PLUS MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.

2. DRYVIT DEMAND!TR OR COLOR PRIME™ ON SURFACES TO RECEIVE SEALANT.

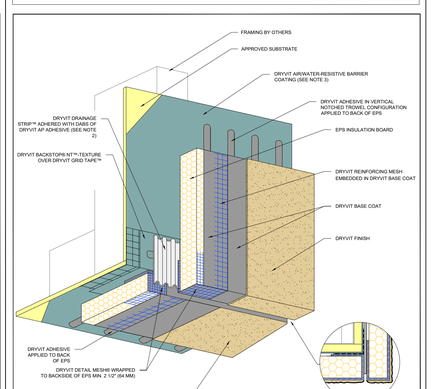
3. DRYVIT AIR/WATER-RESISTIVE BARRIER IS REQUIRED OVER VERTICAL SUBSTRATES. APPLICATION OVER HORIZONTAL SOFFIT SUBSTRATE IS OPTIONAL UNLESS REQUIRED AS PART OF A CONTINUOUS AIR BARRIER SYSTEM.

4. SEALANT JOINT IS REQUIRED FOR SUSPENDED SOFFITS. OPTIONAL FOR RIGIDLY FRAMED.

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OPMD 0.0.24



Outsulation® Plus MD System®

Transition At Soffit/ Fascia Intersection

NOTE:
1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD OR STANDARD PLUS MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.

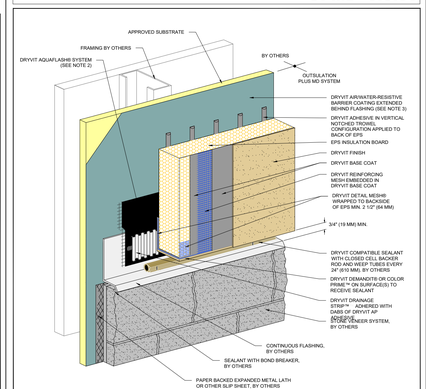
2. ENSURE BOTTOM EDGE OF DRAINAGE STRIP IS LEFT FREE TO DRAIN.

3. DRYVIT AIR/WATER-RESISTIVE BARRIER IS REQUIRED OVER VERTICAL SUBSTRATES. APPLICATION OVER HORIZONTAL SOFFIT SUBSTRATE IS OPTIONAL UNLESS REQUIRED AS PART OF A CONTINUOUS AIR BARRIER SYSTEM.

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OPMD 0.0.30



Outsulation® Plus MD System®

Horizontal Termination at Stone Veneer

NOTE:
1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD OR STANDARD PLUS MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.

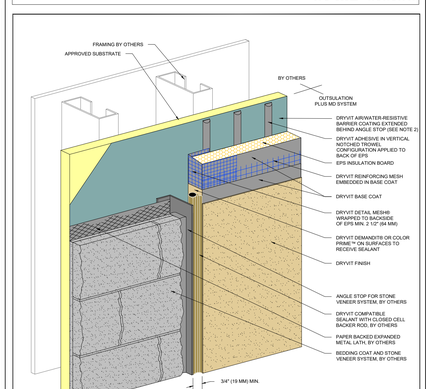
2. DRYVIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED IN LIEU OF DRYVIT AQUAFLASH SYSTEM.

3. FOR INSTALLATION OF DRYVIT AIR/WATER-RESISTIVE BARRIER COATING BENEATH CLADDINGS OTHER THAN DRYVIT EIFS, REFER TO DRYVIT PUBLICATION DS640.

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OPMD 0.0.38



Outsulation® Plus MD System®

Vertical Termination At Stone Veneer

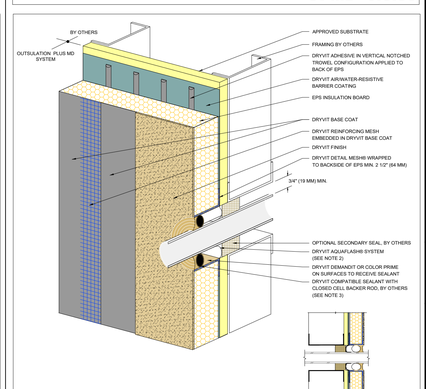
NOTE:
1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD OR STANDARD PLUS MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.

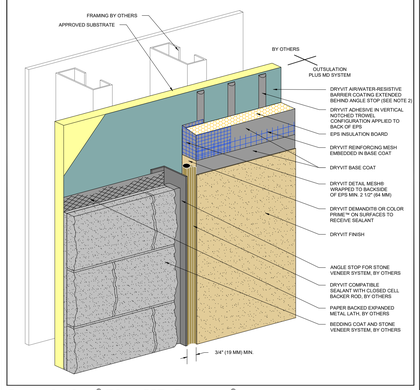
2. FOR INSTALLATION OF DRYVIT AIR/WATER-RESISTIVE BARRIER COATING BENEATH CLADDINGS OTHER THAN DRYVIT EIFS, REFER TO DRYVIT PUBLICATION DS640.

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OPMD 0.0.39


BY OTHERS
OUTSULATION PLUS MD SYSTEM
APPROVED SUBSTRATE
FRAMING BY OTHERS
DRYVIT ADHESIVE IN VERTICAL NOTCH



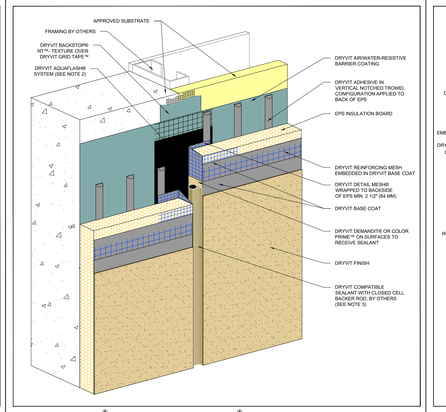
Outsulation® Plus MD System® Vertical Termination At Stone Veneer

NOTE:
1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER6 MESH PRIOR TO STANDARD OR STANDARD PLUS MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.

2. FOR INSTALLATION OF DRYVIT AIRWATER-RESISTIVE BARRIER COATING BENEATH CLADDINGS OTHER THAN DRYVIT EIFS, REFER TO DRYVIT PUBLICATION DS840.

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Outsulation® Plus MD System® Vertical Expansion Joint - Flush Option

NOTE:
1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER6 MESH PRIOR TO STANDARD OR STANDARD PLUS MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.

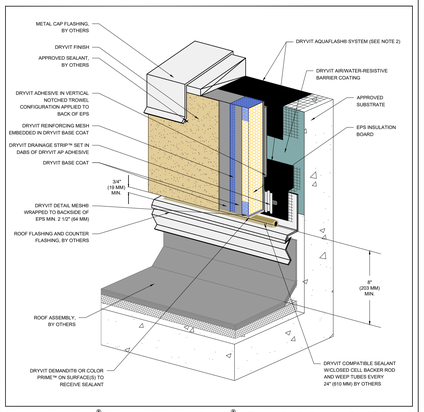
2. DRYVIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED IN LIEU OF DRYVIT AQUAFLASH SYSTEM.

3. SEALANT SHALL NOT BE IN DIRECT CONTACT WITH ASPHALTIC ADHESIVE ON DRYVIT FLASHING TAPE. COVER DRYVIT FLASHING TAPE LAPS WITH POLYETHYLENE TAPE OR BACKER ROD.

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OPMD 0.0.20



Outsulation® Plus MD System® Termination At Parapet - Solid Substrate

NOTE:
1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER6 MESH PRIOR TO STANDARD OR STANDARD PLUS MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.

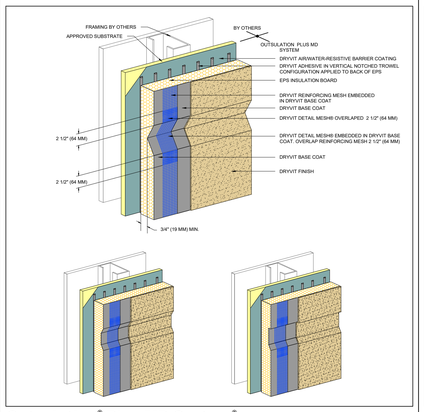
2. DRYVIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED IN LIEU OF DRYVIT AQUAFLASH SYSTEM.

3. EDGE WRAPPING METHOD IS ACCEPTABLE IN LIEU OF BACK WRAPPING. DRYVIT REINFORCING MESH MUST BE FULLY EMBEDDED IN DRYVIT BASE COAT AT EPS EDGE AND EXTEND ONTO SUBSTRATE 2 1/2" (64 MM) MIN.

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OPMD 0.0.41



Outsulation® Plus MD System® Aesthetic Reveals

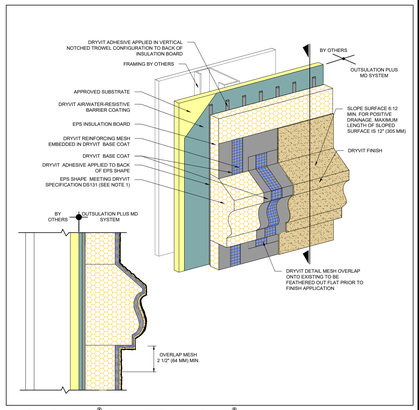
NOTE:
1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER6 MESH PRIOR TO STANDARD OR STANDARD PLUS MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.

2. SLOPE BOTTOM EDGE OF REVEAL FOR POSITIVE DRAINAGE.

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OPMD 0.0.44

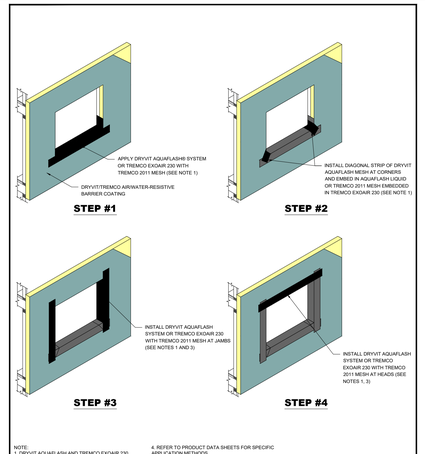


Outsulation® Plus MD System® EPS Shapes

NOTES:
1. MAXIMUM THICKNESS OF EPS BUILT OUT SHAPES SHALL NOT EXCEED 72 (330 MM) AT ANY POINT MEASURED FROM THE SUBSTRATE.

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NOTE:
1. DRYVIT AQUAFLASH AND TREMCO EXOAIR 230 WITH MESH SHALL EXTEND TO INTERIOR FACE OF OPENING.

2. REFER TO HEAD, SILL AND JAMB DETAILS FOR FLASHING INTEGRATION.

3. INSTALL WINDOW UNIT AND ASSOCIATED FLASHINGS PER MANUFACTURER'S RECOMMENDATIONS, CODE REQUIREMENTS AND PROJECT DOCUMENTS.

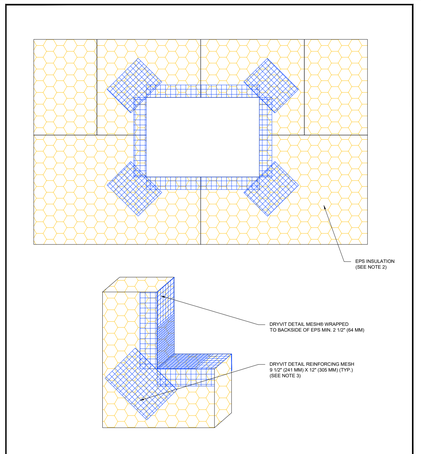
4. REFER TO PRODUCT DATA SHEETS FOR SPECIFIC APPLICATION METHODS.
5. FOR ADDITIONAL BACKSTOP NT DETAILS, REFER TO DRYVIT PUBLICATION DS840.

The architecture, engineering, and design of the project using the Dryvit and Tremco products are the responsibility of the project's design professional. All products and systems must comply with local building codes and standards. This detail is for general information and guidance only and Dryvit and Tremco specifically disclaims any liability for the use of this detail. The project design professional determines, in its sole discretion, whether this detail or a functionally equivalent detail is best suited for the project. This detail is subject to change without notice. Dryvit and Tremco to ensure you have the most recent version.

Outsulation® Plus MD System®

Detail: Opening Preparation - Dryvit AquaFlash® System or Tremco ExoAir 230 with Mesh Option	File Name: OPMD 3
Drawn by: KAB · Checked by: CB · Scale: NTS · Date: 9/2021	

Dryvit Technical Support: 800-556-7752 · Tremco Construction Products Group companies: Dryvit Systems, Inc., Nudura Inc., Protecto Wrap LLC, Schul International Co., LLC d/b/a Whitacre Tremco Incorporated



NOTE:
1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER6 MESH PRIOR TO STANDARD OR STANDARD PLUS MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.

2. LOCATE INSULATION BOARDS SUCH THAT BOARD EDGES DO NOT ALIGN WITH CORNERS OF PENETRATION.

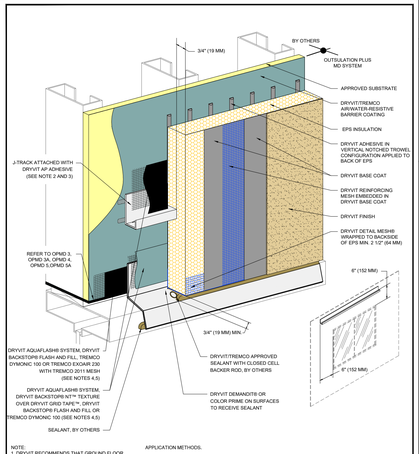
3. APPLY A PIECE OF 9 1/2" (241 MM) X 12" (305 MM) DETAIL REINFORCING MESH DIAGONALLY AT EACH CORNER.

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Outsulation® Plus MD System®

Detail: EPS Preparation at Wall Penetrations	File Name: OPMD 11
Drawn by: KAB · Checked by: CB · Scale: NTS · Date: 9/2021	

Dryvit Technical Support: 800-556-7752 · Tremco Construction Products Group companies: Dryvit Systems, Inc., Nudura Inc., Protecto Wrap LLC, Schul International Co., LLC d/b/a Whitacre Tremco Incorporated



NOTE:
1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER6 MESH PRIOR TO STANDARD OR STANDARD PLUS MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.

2. LIGHTLY SAND SURFACE OF J-TRACK TO MAXIMIZE ADHESION.

3. LENGTH OF TRACK NOT TO EXCEED 10 FT. (3 M).

4. REFER TO PRODUCT DATA SHEETS FOR SPECIFIC APPLICATION METHODS.

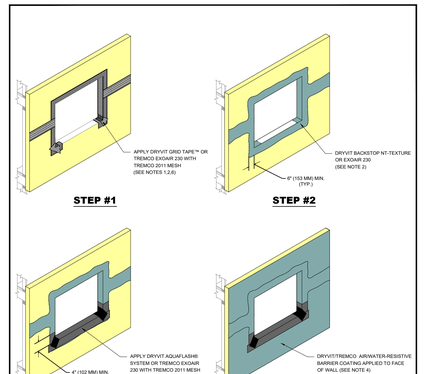
5. THE ONLY WRB TO BE USED WITH BACKSTOP® FLASH AND FILL IS BACKSTOP® NT™.

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Outsulation® Plus MD System®

Detail: Head J-Track Option	File Name: OPMD 15
Drawn by: KAB · Checked by: CB · Scale: NTS · Date: 9/2021	

Dryvit Technical Support: 800-556-7752 · Tremco Construction Products Group companies: Dryvit Systems, Inc., Nudura Inc., Protecto Wrap LLC, Schul International Co., LLC d/b/a Whitacre Tremco Incorporated



NOTE:
1. APPLY DRYVIT GRID TAPE OR TREMCO EXOAIR 230 WITH TREMCO 2011 MESH ON HEAD, JAMB, AND CORNERS OF OPENINGS AND SHEATHING JOINTS.

2. TROWEL APPLY DRYVIT BACKSTOP NT-TEXTURE OVER THE DRYVIT GRID TAPE OR APPLY TREMCO EXOAIR 230 WITH TREMCO 2011 MESH ALL THE WAY TO INSIDE FACE OF OPENING. ALL VOIDS MUST BE FILLED. BACK WRAPPING IS NOT REQUIRED. AS AN OPTION, DRYVIT GRID TAPE AND DRYVIT BACKSTOP NT-TEXTURE MAY ALSO BE APPLIED AT THE SILL PRIOR TO DRYVIT AQUAFLASH SYSTEM APPLICATION.

3. INSTALL WINDOW UNIT AND ASSOCIATED FLASHINGS PER MANUFACTURER'S RECOMMENDATIONS, CODE REQUIREMENTS AND PROJECT DOCUMENTS.

4. REFER TO HEAD, SILL, AND JAMB DETAILS FOR FLASHING INTEGRATION.

5. FOR ADDITIONAL BACKSTOP NT DETAILS, REFER TO DRYVIT PUBLICATION DS840.
6. REFER TO PRODUCT DATA SHEETS FOR SPECIFIC APPLICATION METHODS.

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Outsulation® Plus MD System®

Detail: Opening Preparation - Backstop® NT or Tremco 230 Option	File Name: OPMD 4
Drawn by: KAB · Checked by: CB · Scale: NTS · Date: 9/2021	

Dryvit Technical Support: 800-556-7752 · Tremco Construction Products Group companies: Dryvit Systems, Inc., Nudura Inc., Protecto Wrap LLC, Schul International Co., LLC d/b/a Whitacre Tremco Incorporated

NOTE:
1. REFER TO OPMD 12 AND OPMD 13 FOR INTEGRATION OF FLASHING.

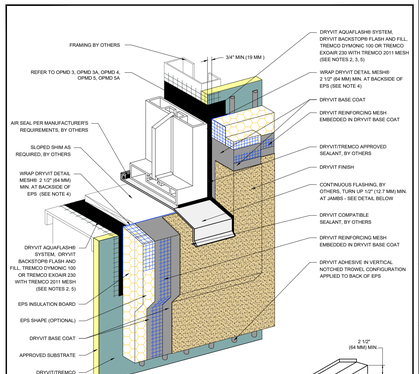
2. FOR ADDITIONAL BACKSTOP NT DETAILS, REFER TO DRYVIT PUBLICATION DS840.

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Outsulation® Plus MD System®

Detail: Opening Flashing Integration - AquaFlash® System or Tremco ExoAir 230 Option	File Name: OPMD 5
Drawn by: KAB · Checked by: CB · Scale: NTS · Date: 9/2021	

Dryvit Technical Support: 800-556-7752 · Tremco Construction Products Group companies: Dryvit Systems, Inc., Nudura Inc., Protecto Wrap LLC, Schul International Co., LLC d/b/a Whitacre Tremco Incorporated



SILL PAN FLASHING DETAIL

NOTE:
1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER6 MESH PRIOR TO STANDARD OR STANDARD PLUS MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.

2. REFER TO PRODUCT DATA SHEETS FOR SPECIFIC APPLICATION METHODS.

3. DRYVIT BACKSTOP® NT-TEXTURE OVER GRID TAPE™ IS AN ALTERNATIVE OPTION AT JAMB AND HEAD CONDITION PER DETAIL OPMD 3A.

4. EDGE WRAPPING METHOD IS ACCEPTABLE AT SILL AND JAMB IN LIEU OF BACK WRAPPING. DRYVIT REINFORCING MESH MUST BE FULLY EMBEDDED IN DRYVIT BASE COAT AT EPS EDGE AND MUST EXTEND ONTO SUBSTRATE 2 1/2" (64 MM) MIN.

5. THE ONLY WRB TO BE USED WITH BACKSTOP® FLASH AND FILL IS BACKSTOP® NT™.

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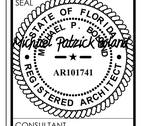
Outsulation® Plus MD System®

Detail: Storefront Window Sill - Jamb	File Name: OPMD 12
Drawn by: KAB · Checked by: CB · Scale: NTS · Date: 9/2021	

Dryvit Technical Support: 800-556-7752 · Tremco Construction Products Group companies: Dryvit Systems, Inc., Nudura Inc., Protecto Wrap LLC, Schul International Co., LLC d/b/a Whitacre Tremco Incorporated

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CONSULTANT

Shamrock Building Systems, Inc.

NEW CONSTRUCTION FOR:

CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS

19TH LANE VERO BEACH, FLORIDA, 32966

DRAWINGS PUBLISHED
27 APRIL 2023
CONSTRUCTION DOCUMENTS

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CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS

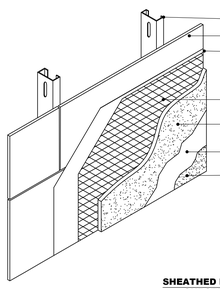
PROJECT 23002
PHASE -----

SHEET TITLE
TYPICAL EIFS DETAILS

SHEET
A542

PLOTTED ON 05/10/2023

CCP-2 0.0.01



SHEATHED FRAMING SUBSTRATE

Commercial Cement Plaster 2™

CCP 2 CUTAWAY

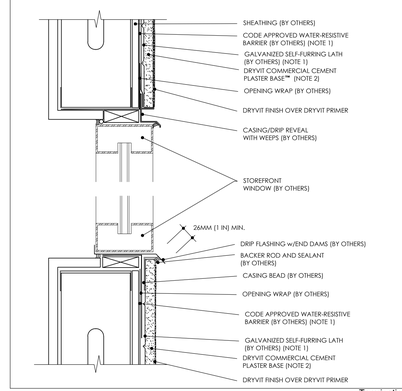
NOTE:

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Termination at Storefront Window-Head+Sill

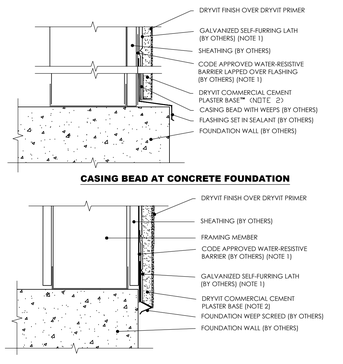
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CASING BEAD AT CONCRETE FOUNDATION

WEEP SCREED AT CONCRETE FOUNDATION

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Termination at Concrete Foundation

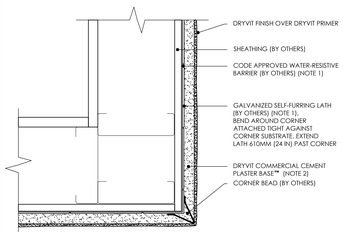
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Outside Corner

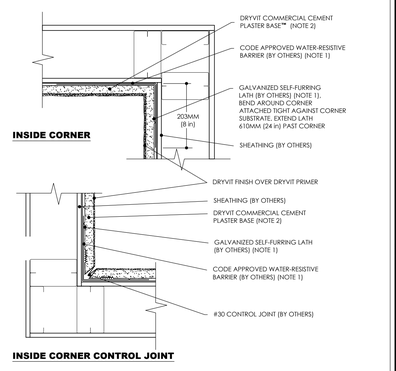
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INSIDE CORNER CONTROL JOINT

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Inside Corner Detail

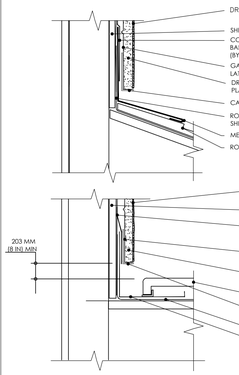
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Termination at Roof

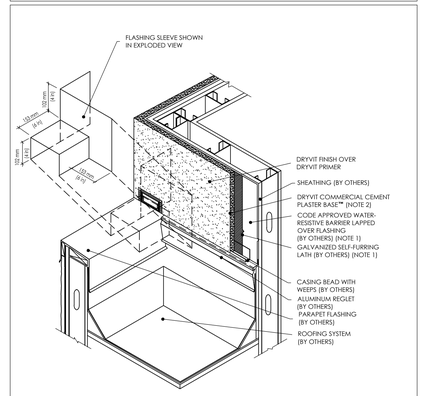
NOTE:

1. BUILDING CODES REQUIRE 2 LAYERS OVER WOOD BASED SUBSTRATES. COMPLY WITH ALL LOCAL CODE REQUIREMENTS.
2. LATH TO LAP OVER CONTROL JOINT FLANGES.
3. FRAMING BACKING IS REQUIRED AT ALL CONTROL JOINTS.

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Termination at Parapet/Wall Intersection

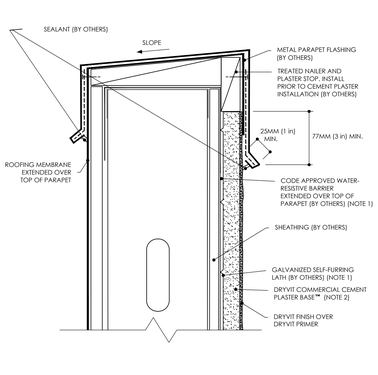
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Parapet Flashing

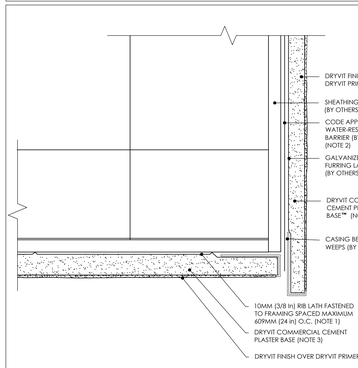
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Soffit/Fascia Intersection

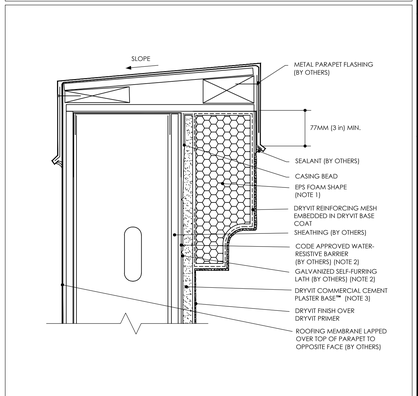
NOTE:

1. FRAMING JOIST SPACED AT 609MM (24") REQUIRES 10MM (3/8") RIB LATH PERPENDICULAR TO JOISTS.
2. BUILDING CODES REQUIRE 2 LAYERS OVER WOOD BASED SUBSTRATES. COMPLY WITH ALL LOCAL CODE REQUIREMENTS.
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EPS Cornice

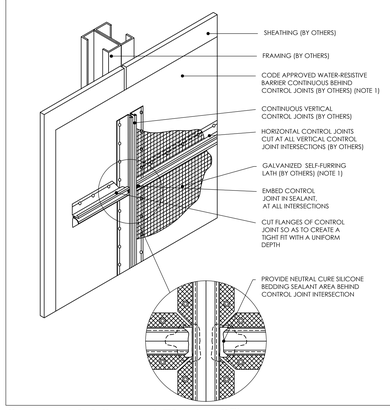
NOTE:

1. ADHESIVLY ATTACH EPS SHAPE TO CEMENT PLASTER BASE COAT WITH GENESIS OR GENESIS DM BASE COAT.
2. BUILDING CODES REQUIRE 2 LAYERS OVER WOOD BASED SUBSTRATES. COMPLY WITH ALL LOCAL CODE REQUIREMENTS.
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Expansion Joint Intersection

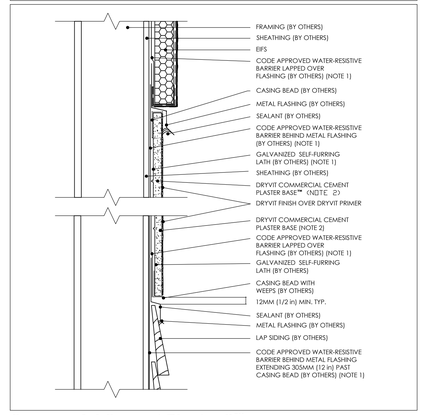
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Termination at EIFS/Lap Siding

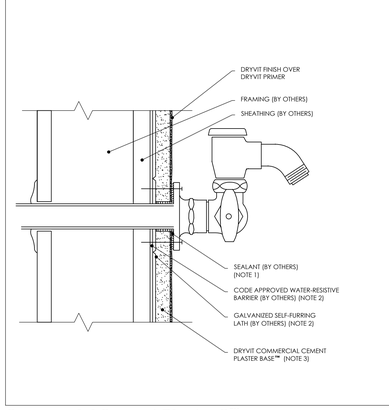
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Hose Bib Penetration

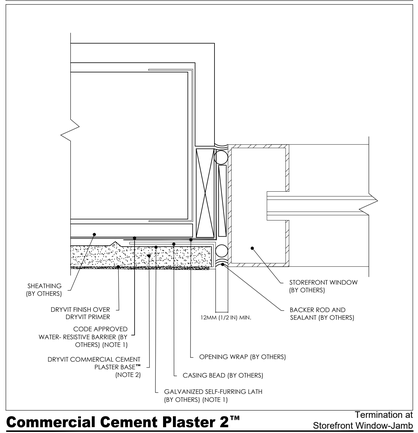
NOTE:

1. PRE-DRILLED HOLES SET IN SEALANT.
2. BUILDING CODES REQUIRE 2 LAYERS OVER WOOD BASED SUBSTRATES. COMPLY WITH ALL LOCAL CODE REQUIREMENTS.
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Termination at Storefront Window-Jamb

NOTE:

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REGISTERED ARCHITECT
AR101741

CONSULTANT

Shamrock Building Systems, Inc.

NEW CONSTRUCTION FOR:

CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS

19TH LANE,VERO BEACH, FLORIDA, 32966

DRAWINGS PUBLISHED

27 APRIL 2023
CONSTRUCTION DOCUMENTS

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CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS

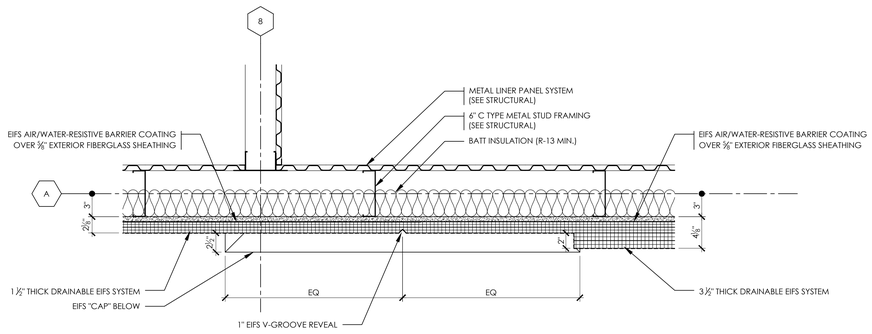
PROJECT 23002
PHASE ----

SHEET TITLE
TYPICAL STUCCO DETAILS

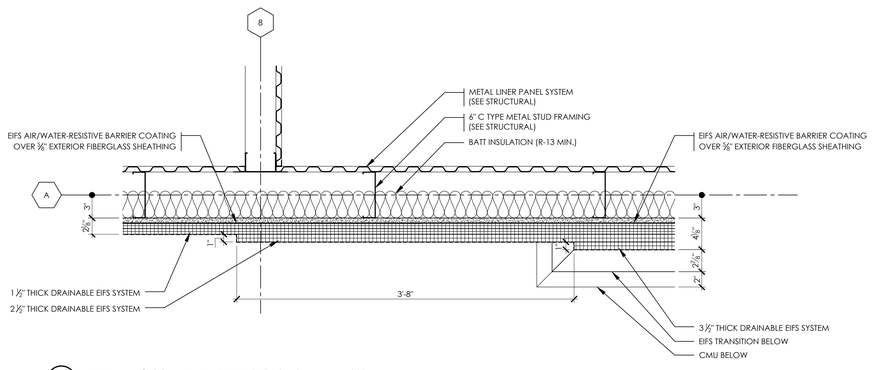
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PLOTTED ON 4/26/2023

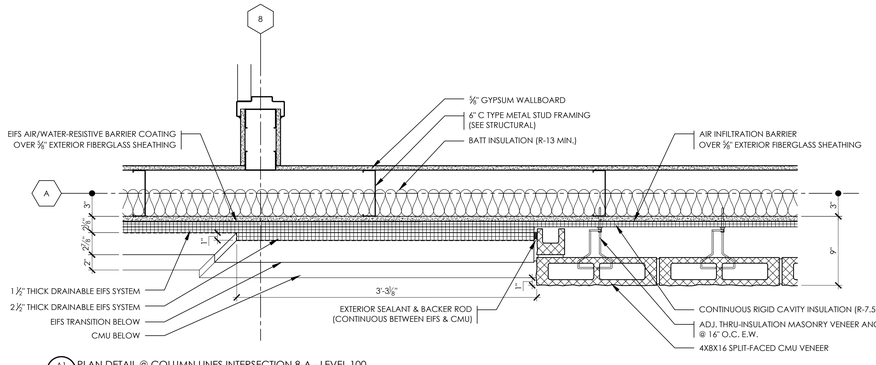
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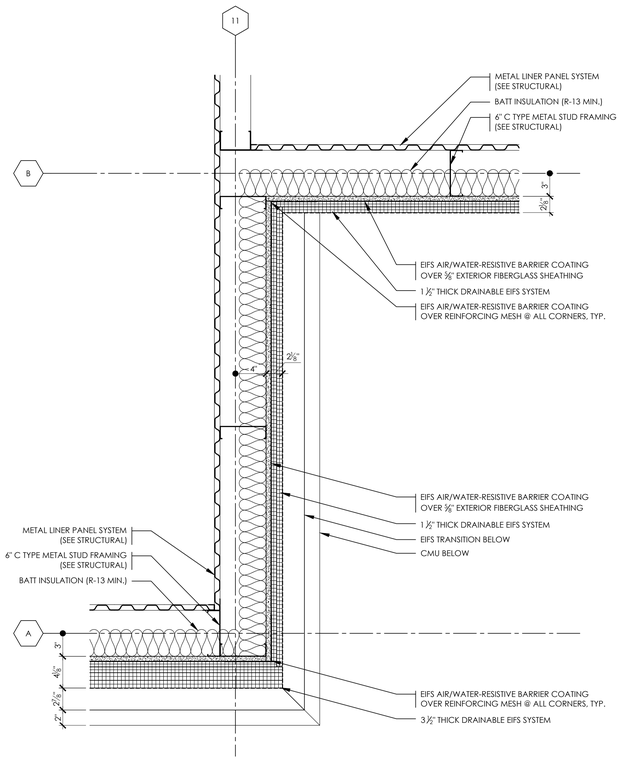
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1 1/2" = 1'-0"



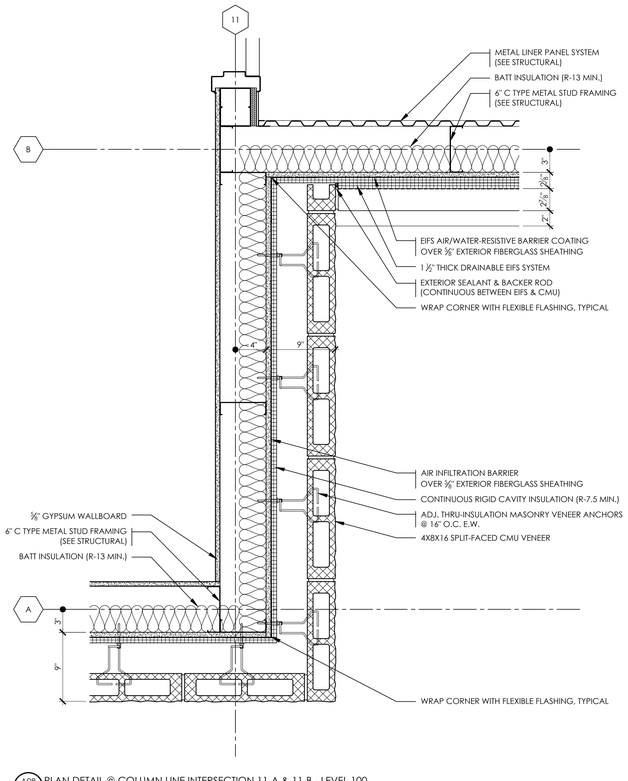
E01 A551 PLAN DETAIL @ COLUMN LINES INTERSECTION 8-A - LEVEL 200
1 1/2" = 1'-0"



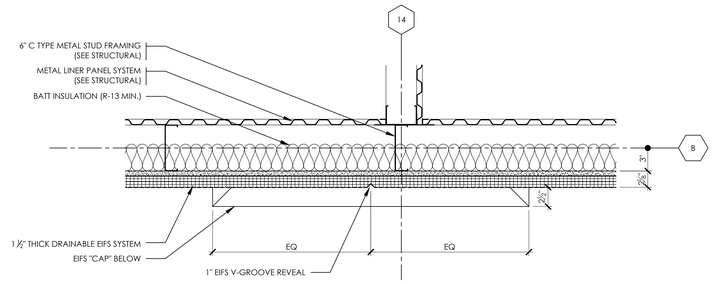
A1 A551 PLAN DETAIL @ COLUMN LINES INTERSECTION 8-A - LEVEL 100
1 1/2" = 1'-0"



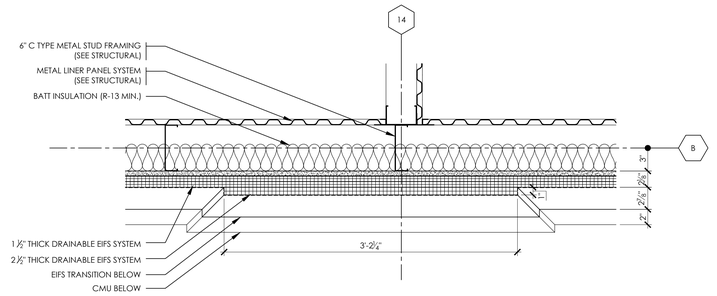
H08 A551 PLAN DETAIL @ COLUMN LINE INTERSECTION 11-A & 11-B - LEVEL 200
1 1/2" = 1'-0"



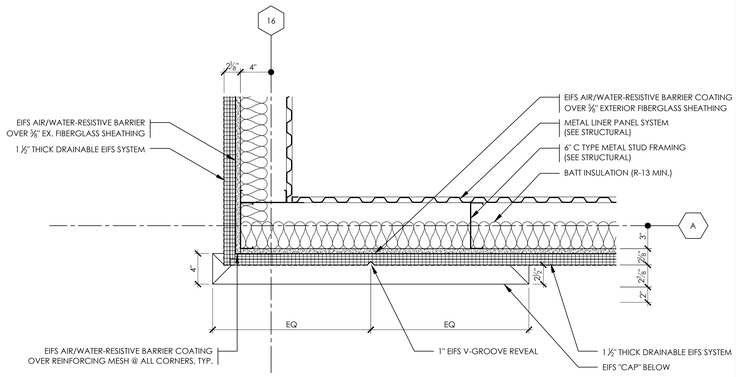
A08 A551 PLAN DETAIL @ COLUMN LINE INTERSECTION 11-A & 11-B - LEVEL 100
1 1/2" = 1'-0"



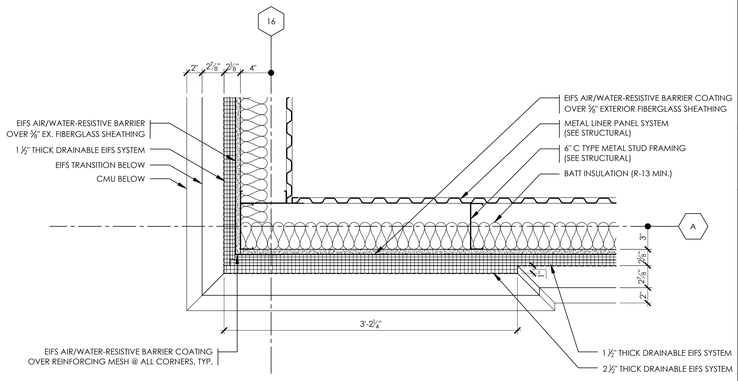
M14 A551 PLAN DETAIL @ COLUMN LINE INTERSECTION 14-B - LEVEL 300
1 1/2" = 1'-0"



J14 A551 PLAN DETAIL @ COLUMN LINE INTERSECTION 14-B - LEVEL 100
1 1/2" = 1'-0"



E14 A551 PLAN DETAIL @ COLUMN LINE INTERSECTION 16-A - LEVEL 300
1 1/2" = 1'-0"



A14 A551 PLAN DETAIL @ COLUMN LINE INTERSECTION 16-A - LEVEL 100
1 1/2" = 1'-0"

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NEW CONSTRUCTION FOR:
CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS
19TH LANE,VERO BEACH, FLORIDA, 32966

DRAWINGS PUBLISHED
27 APRIL 2023
CONSTRUCTION DOCUMENTS

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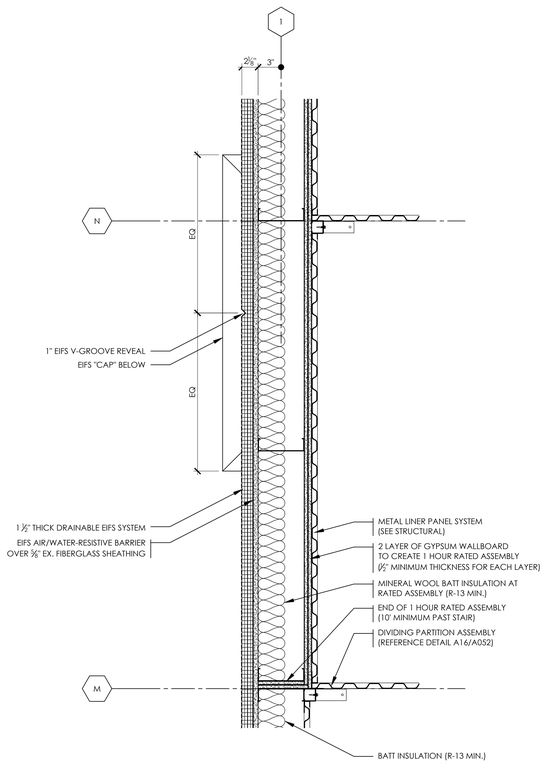
CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS

PROJECT 23002
PHASE ----

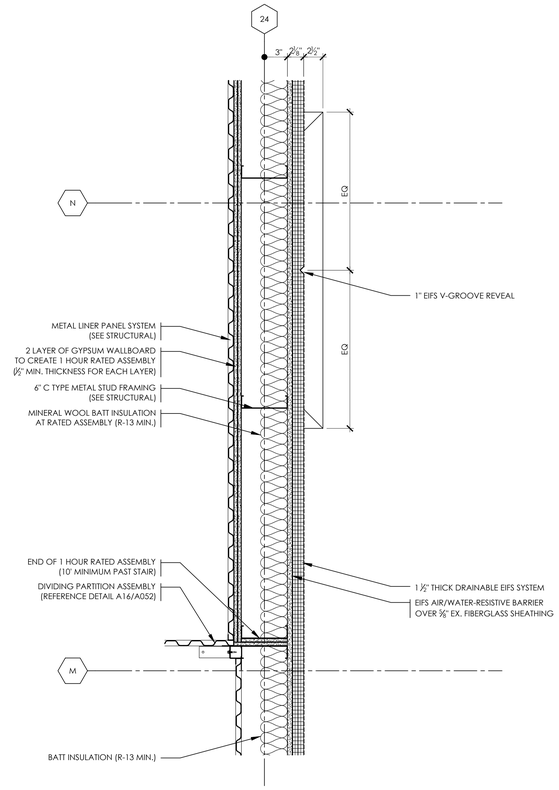
SHEET TITLE
PLAN DETAILS - BUILDING A

SHEET
A551

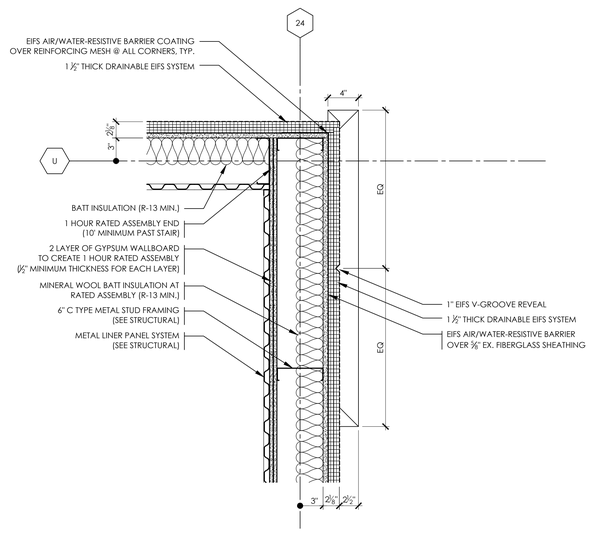
PLOTTED ON 4/26/2023
SK-ARCH-01 (SCALE IS AS INDICATED)



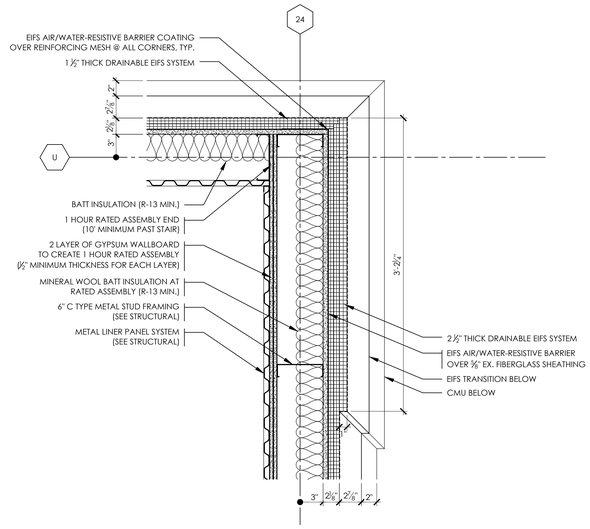
H01 PLAN DETAIL @ COLUMN LINE INTERSECTION 1-M & 1-N - LEVEL 300
A552 1 1/2" = 1'-0"



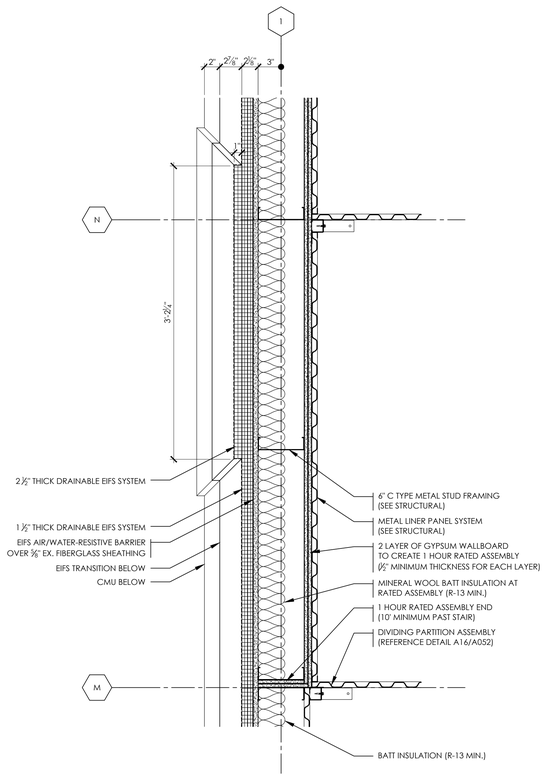
H10 PLAN DETAIL @ COLUMN LINE INTERSECTION 24-M & 24-N - LEVEL 300
A552 1 1/2" = 1'-0"



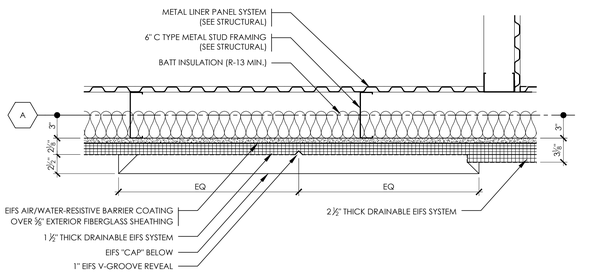
K15 PLAN DETAIL @ COLUMN LINE INTERSECTION 24-U - LEVEL 300
A552 1 1/2" = 1'-0"



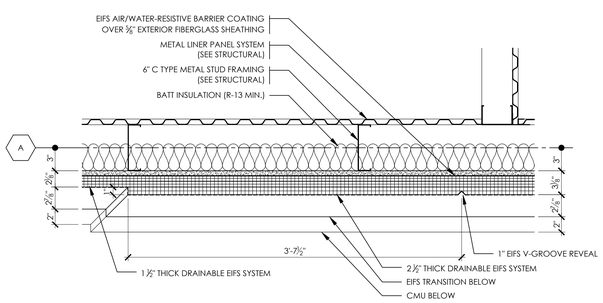
E15 PLAN DETAIL @ COLUMN LINE INTERSECTION 24-U - LEVEL 100
A552 1 1/2" = 1'-0"



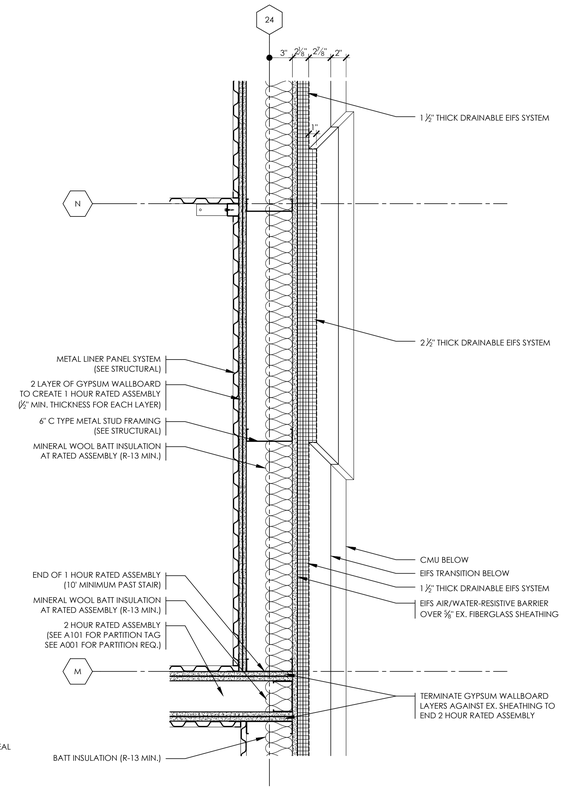
A01 PLAN DETAIL @ COLUMN LINE INTERSECTION 1-M & 1-N - LEVEL 100
A552 1 1/2" = 1'-0"



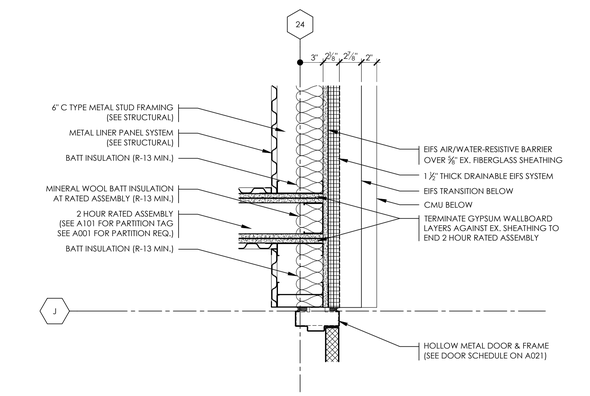
D05 PLAN DETAIL @ COLUMN LINE A - LEVEL 300
A552 1 1/2" = 1'-0"



A05 PLAN DETAIL @ COLUMN LINE A - LEVEL 100
A552 1 1/2" = 1'-0"



A10 PLAN DETAIL @ COLUMN LINE INTERSECTION 24-M & 24-N - LEVEL 100
A552 1 1/2" = 1'-0"



A15 PLAN DETAIL @ COLUMN LINE INTERSECTION 24-J - LEVEL 100
A552 1 1/2" = 1'-0"

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CUBE SMART 19TH LANE VERO BEACH STORAGE BUILDINGS

PROJECT 23002
PHASE ----

SHEET TITLE
PLAN DETAILS - BUILDING A

SHEET
A552

PLOTTED ON 04/26/2023
SHEET SET ID: 23002 A552 REVISED