PROJECT INFORMATION

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ARCHITECT OF RECORD: SCOTT STINARD
NY LICENSE NO. 032362

PROJECT LOCATION
1639 ROUTE 22
BREWSTER, NY 10509

MECHANICAL, ELECTRICAL AND PLUMBING

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STRUCTURAL ENGINEER OF RECORD:
JAMEY BROWN
NY LICENSE NO. 101116

BUILDING CODE SUMMARY

THE BUILDING DESCRIBED IN THESE PLANS SHALL BE CONSTRUCTED IN COMPLIANCE WITH THE FOLLOWING CODES:

2020 BUILDING CODE OF NEW YORK STATE ADOPTS WITH AMENDMENTS: 2018 INTERNATIONAL BUILDING CODE
2020 FIRE CODE OF NEW YORK STATE ADOPTS WITH AMENDMENTS: 2018 INTERNATIONAL FIRE CODE
2020 PLUMBING CODE OF NEW YORK STATE ADOPTS WITH AMENDMENTS: 2018 INTERNATIONAL PLUMBING CODE
2020 MECHANICAL CODE OF NEW YORK STATE ADOPTS WITH AMENDMENTS: 2018 INTERNATIONAL MECHANICAL CODE
2020 FUEL GAS CODE OF NEW YORK STATE ADOPTS WITH AMENDMENTS: 2018 INTERNATIONAL FUEL GAS CODE
2020 ENERGY CONSERVATION CODE OF NEW YORK STATE ADOPTS WITH AMENDMENTS: 2018 INTERNATIONAL ENERGY CONSERVATION CODE
2016 ASHRAE 90.1
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
2017 NATIONAL ELECTRIC CODE / NFPA 70

OCCUPANCY CLASSIFICATION:
GROUP S-1, MODERATE HAZARD STORAGE (311.2)

CONSTRUCTION TYPE:
TYPE II B (T 601)

BUILDING HEIGHT AND STORIES:

PROPOSED:	
HEIGHT	29'-3"
STORIES	LL+2
ALLOWABLE:	
HEIGHT (T 503.3)	75' (SPRINK)
STORIES (T 504.4)	3 (SPRINK)

BUILDING AREA:

PROPOSED:	
LOWER LEVEL	5,880 SF
1ST FLR	5,842 SF
2ND FLR	5,842 SF
TOTAL AREA	17,564 SF
ALLOWABLE - MIXED OCCUPANCY MULTI-STORY (506.2.4):	
TABULAR (T 506.2, S-1, II B, SM)	52,500 SF
FRONTAGE (506.3.3, NS):	
((366'/366')-.25)x(28.6'/30') = 73%	10,485 SF
ALLOWABLE AREA/FLR	62,985 SF/FLR
ACTUAL STORIES (3 MAX)	3 STORY
TOTAL ALLOWABLE BUILDING AREA	125,970 SF

FIRE RESISTIVE CONSTRUCTION:

EXTERIOR WALLS (T 602):	0 HR (>10')
EXTERIOR OPENINGS (705.8.1 EX 2)	NO LIMIT (0 HR)
FIRE BARRIER - SHAFT (707.3.1, 713.4, 1023.2)	1 HR (< 4 FLR)
1 HR FIRE BARRIER (PUMP ROOM)	1 HR
OPENING PROTECTION (T 716.1 (2)):	
1 HR FIRE BARRIER (EXIT, SHAFT)	1 HR
1 HR FIRE BARRIER (OTHER)	3/4 HR
CORRIDORS (T 1020.1)	0 HR (SPRINK)
ELEVATOR LOBBIES (713.14.2)	NOT REQD

FIRE PROTECTION SYSTEMS:

AUTOMATIC SPRINKLER SYSTEM (903.2.8)	NFPA 13
STAND PIPE SYSTEM (905.3)	NOT REQD (<30')
PORTABLE FIRE EXTINGUISHERS (906.1)	PROVIDED
FIRE ALARM / DETECTION SYSTEM (907.10)	ELEVATOR + SPRINK

OCCUPANT LOAD:

TABLE 1004.5 [NFPA 101 T7.3.1.2, 36.1.7, 42.1.7]:

LOWER LEVEL WAREHOUSE:	5,880 GSF @ 1/500	12
1ST FLR WAREHOUSE:	5,842 GSF @ 1/500	12
2ND FLR WAREHOUSE:	5,842 GSF @ 1/500	12
TOTAL OCCUPANTS:		36

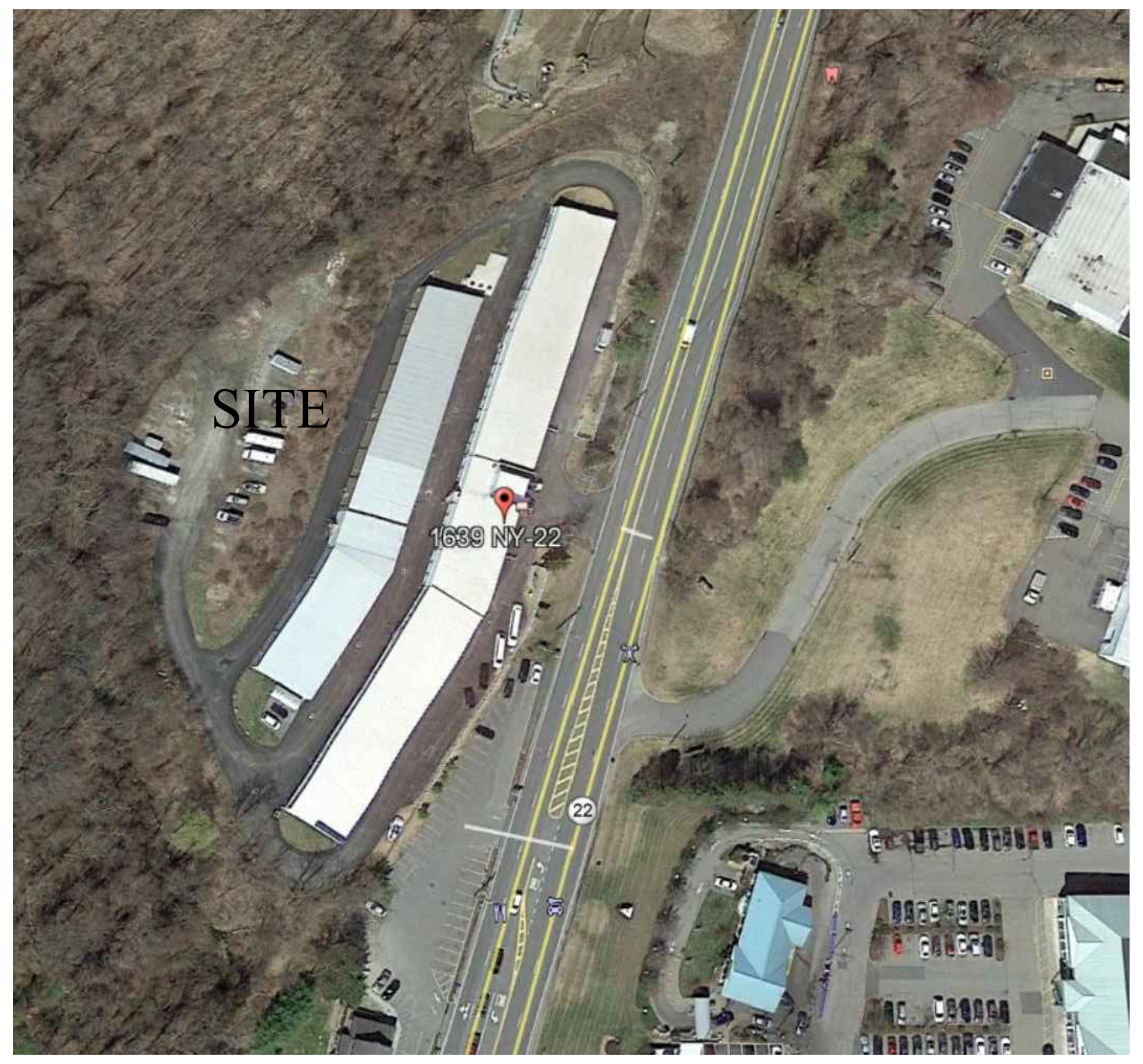
EGRESS ARRANGEMENT:

MAX COMMON PATH TRAVEL (T 1014.3) [NFPA101 T42.2.5]	100' (SPRINK)
MIN NUMBER OF EXITS (T 1021.2) [NFPA 101 42.2.4.1(3)]	2 PER STORY
MAX TRAVEL DISTANCE (T 1016.2) [NFPA 101 T42.2.6]	250' (SPRINK)
MAX DEAD END CORRIDOR (1018.4 EX 2) [NFPA 101 T42.2.5]	50' (SPRINK)

EGRESS CAPACITY:

DOORS:	
OCCUPANT LOAD x 0.2" (1005.3.2) [NFPA 101 T7.3.3.1]	3" (12 x 0.2)
MIN WIDTH (1010.1.1) [NFPA 101 7.2.1.2.3.2]	32"
CORRIDORS:	
OCCUPANT LOAD x 0.2" (1005.3.2) [NFPA 101 T7.3.3.1]	3" (12 x 0.2)
MIN WIDTH (T 1020.2) [NFPA 101 7.3.4]	36" (<50)
STAIRS:	
OCCUPANT LOAD x 0.3" (1005.3.1) [NFPA 101 T7.3.3.1]	4" (12 x 0.3)
MIN WIDTH (1011.2) [NFPA 101 7.2.2.2.1.2]	36" (<50)

VICINITY MAP



LIFE STORAGE #230
SELF STORAGE PHASE II

1639 ROUTE 22
BREWSTER, NY 10509

ABBREVIATIONS

@	AT
ABV	ABOVE
ACOUST	ACOUSTICAL
AFF	ABOVE FINISH FLOOR
ALUM	ALUMINUM
ALT	ALTERNATE
AMB	AIR MOISTURE BARRIER
ANOD	ANODIZED
AP	ACCESS PANEL
ARCH	ARCHITECTURAL
BD	BOARD
BLDG	BUILDING
BM	BEAM
CABT	CABINET
BOT	BOTTOM
CEM	CEMENT
CJ	CONTROL JOINT
CL	CENTERLINE, CLOSET
CLG	CEILING
CLR	CLEAR
CNTR	COUNTER
CMU	CONCRETE MASONRY UNIT
CO	CASED OPENING
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CPT	CARPET
CT	CERAMIC TILE
DBL	DOUBLE
DEMO	DEMOLITION
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DWG	DRAWING
EA	EACH
EF	EXHAUST FAN
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV, EL	ELEVATION
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXP	EXPANSION
EX	EXISTING
EXT	EXTERIOR
FC	FIBER CEMENT
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FG	FIBERGLASS
FIN	FINISH
FLR	FLOOR
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STEEL/STUD/SLAB
FRT	FIRE RETARDANT TREATED
FT	FEET
GA	GAUGE
GALV	GALVANIZED
GYP	GYPSUM
HB	HOSE BIBB
HC	HOLLOW CORE
HDWD	HARDWOOD
HDWR	HARDWARE
HGT	HEIGHT
HM	HOLLOW METAL
HOR	HORIZONTAL
HP	HIGH POINT
HR	HOUR
ID	INSIDE DIAMETER
IN	INCH
INT	INTERIOR
INSUL	INSULATION
JT	JOINT
LAM	LAMINATE
LAV	LAVATORY
LF	LINEAR FOOT
LGT	LIGHTING
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
MAINT	MAINTENANCE
MATL	MATERIAL
MAX	MAXIMUM
MBM	METAL BLDG MFR
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTL	METAL
MTD	MOUNTED
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPP	OPPOSITE
PL	PLATE
PLAM	PLASTIC LAMINATE
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT
PREFIN	PREFINISHED
PT	PRESSURE TREATED
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
QT	QUARRY TILE
R	RADIUS, RISER
RD	ROOF DRAIN
REINF	REINFORCEMENT
REQD	REQUIRED
REV	REVISION
RO	ROUGH OPENING
RM	ROOM
SAF	SELF-ADHERING FLASHING
SC	SOLID CORE
SCHED	SCHEDULED
SF	SQUARE FOOT
SIM	SIMILAR
S/S	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STN	STAIN
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL
T	TREAD
T&G	TONGUE & GROOVE
TAFS	TEXTURED ACRYLIC FINISH SYSTEM
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W/	WITH
WC	WATER CLOSET
WD	WOOD
W/O	WITHOUT
WP	WATERPROOF
WRB	WATER RESISTIVE BARRIER
WWF	WELDED WIRE FABRIC
XPS	EXTRUDED POLYSTYRENE
YD	YARD

GENERAL NOTES

1. **GENERAL**: NOTES AND DETAILS INDICATED ON DRAWINGS APPLY TO ALL SIMILAR CONDITIONS. DO NOT SCALE DRAWINGS. LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS. IN CASE OF CONFLICTING REQUIREMENTS FOR QUANTITIES OR QUALITY LEVELS, COMPLY WITH THE MOST STRINGENT REQUIREMENT.
2. **CONTRACT DOCUMENT AND FIELD CONDITION REVIEW**: THE GENERAL CONTRACTOR SHALL COMPARE THE CONTRACT DOCUMENTS WITH EACH OTHER AND THE FIELD CONDITIONS, AND REPORT ANY INCONSISTENCIES, ERRORS, OR OMISSIONS TO THE ARCHITECT BEFORE BEGINNING THE WORK. VERIFY DIMENSIONS AND FIELD CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE BEGINNING THE WORK. WHERE DETAILED INFORMATION IS LACKING, REQUEST INSTRUCTIONS FROM THE ARCHITECT.
3. **SPECIAL INSPECTIONS**: THE OWNER IS RESPONSIBLE FOR PROVIDING AN INSPECTION AND TESTING AGENCY APPROVED IN THE STATE WHERE THE PROJECT IS LOCATED TO PERFORM ALL SPECIAL INSPECTIONS AND FURNISH ALL REPORTS FOR THIS PROJECT IN ACCORDANCE WITH THE STATEMENT AND SCHEDULE OF SPECIAL INSPECTIONS - SEE STRUCTURAL FOR SPECIFIC REQUIREMENTS.
4. **LOW VOLTAGE SYSTEMS**: DESIGN OF LOW VOLTAGE SYSTEMS INCLUDING SECURITY, DATA, AND COMMUNICATIONS IS THE RESPONSIBILITY OF THE OWNER. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE OWNER'S REQUIREMENTS, AND PROVIDING CONDUIT TO LOCATIONS MADE INACCESSIBLE BY CONSTRUCTION AND EXTENDING COMMUNICATION LINES TO THE TELEPHONE BACKBOARD FOR CONNECTION TO TELEPHONE NEXT WORK AND DATA LINE TO OWNER'S MODEM.
5. **FIRE SPRINKLER SYSTEM**: DESIGN OF FIRE SPRINKLER SYSTEM IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE ENTIRE BUILDING IS TO BE FULLY SPRINKLERED IN ACCORDANCE WITH NFPA 13, AND ALL FEDERAL, STATE AND LOCAL CODES. SUBMIT SPRINKLER SYSTEM DRAWINGS PREPARED BY A CERTIFIED SPRINKLER CONTRACTOR TO THE FIRE MARSHAL FOR APPROVAL, AND OBTAIN A SEPARATE PERMIT FOR THE FIRE SPRINKLER SYSTEM. COORDINATE SPRINKLER SYSTEM WITH SURROUNDING CONSTRUCTION.
6. **FIRE ALARM SYSTEM**: DESIGN OF FIRE ALARM SYSTEM IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. PROVIDE A LIMITED FIRE ALARM SYSTEM FOR DUCT SMOKE DETECTORS, ELEVATOR EMERGENCY OPERATION, AND SPRINKLER SYSTEM SUPERVISION IN ACCORDANCE WITH NFPA 72, AND ALL FEDERAL, STATE AND LOCAL CODES. SUBMIT FIRE ALARM SYSTEM DRAWINGS PREPARED BY A CERTIFIED CONTRACTOR TO THE FIRE MARSHAL FOR APPROVAL, AND OBTAIN A SEPARATE PERMIT FOR THE FIRE ALARM SYSTEM. COORDINATE FIRE ALARM SYSTEM WITH SURROUNDING CONSTRUCTION.
7. **FIRE EXTINGUISHERS**: PROVIDE FIRE EXTINGUISHERS IN ACCORDANCE WITH THE FIRE MARSHAL'S REQUIREMENTS. SEMI-RECESSED CABINET. PROVIDE MINIMUM SIZE OF 2A 10BC, AND MOUNT IN CABINET WITH BOTTOM AT 27" ABOVE FINISH FLOOR.
8. **BUILDING ADDRESS**: POST ADDRESS ON EACH BUILDING IN ACCORDANCE WITH THE FIRE MARSHAL'S REQUIREMENTS.
9. **KEY LOCK BOX**: PROVIDE KEY LOCK BOX IN ACCORDANCE WITH THE FIRE MARSHAL'S REQUIREMENTS. CONTACT FIRE MARSHAL FOR APPLICATION.
10. **FIRE BARRIER IDENTIFICATION**: PROVIDE PERMANENT SIGNS OR STENCILING ON ALL FIRE AND/OR SMOKE RATED BARRIERS ABOVE ANY DECORATIVE CEILING AND/OR IN CONCEALED SPACES. IDENTIFICATION TO BE IN 2" HIGH LETTERING, SPACED EVERY 12 FEET, AND READ "1 HOUR FIRE AND SMOKE BARRIER PROTECT ALL OPENINGS", OR EQUIVALENT WORDING ACCEPTABLE TO AUTHORITY HAVING JURISDICTION.
11. **ACCESSIBLE STORAGE UNITS**: PROVIDE ACCESSIBLE STORAGE UNITS IN ACCORDANCE WITH ADA 2010 STANDARDS FOR ACCESSIBLE DESIGN SECTION 225.3.
12. **EXTERIOR SIGNAGE**: DESIGN OF EXTERIOR SIGNAGE IS BY OTHERS. COMPLY WITH ALL LOCAL CODES. SUBMIT SIGNAGE DRAWINGS TO THE AUTHORITY HAVING JURISDICTION FOR APPROVAL, AND OBTAIN A SEPARATE PERMIT FOR SIGNAGE. COORDINATE SIGNAGE WITH SURROUNDING CONSTRUCTION.
13. **EMERGENCY RESPONDER RADIO COVERAGE**: TEST EMERGENCY RESPONDER RADIO COVERAGE IN ACCORDANCE WITH INTERNATIONAL FIRE CODE SECTION 510, AND NOTIFY FIRE MARSHAL OF RESULTS. IF TEST RESULTS ARE UNACCEPTABLE, THE OWNER WILL PROVIDE AN EMERGENCY RESPONDER RADIO COVERAGE SYSTEM AND ACCEPTANCE TESTING IN ACCORDANCE WITH INTERNATIONAL FIRE CODE SECTION 510.

UNIT MIX TABULATION

LS 230 Brewster, NY
Unit Mix Tabulation

Stinard Architecture, Inc.
4/20/2023

SF per Unit		25	35	50	75	70	90	100	120	150	200		
Conditioned Storage:													
Lower Level	**Gross SF**	**5x5**	**5x7**	**5x10**	**5x15**	**7x10**	**9x10**	**10x10**	**10x12**	**10x15**	**10x20**	**Total**	
Units		10	0	9	0	2	0	21	1	4	0	47	Total Units
Total SF	5,880	250	0	450	0	140	0	2,100	120	600	0	3,660	Net Rentable
1st Floor	**Gross SF**	**5x5**	**5x7**	**5x10**	**5x15**	**7x10**	**9x10**	**10x10**	**10x12**	**10x15**	**10x20**	**Total**	
Units		0	6	3	2	0	0	2	1	15	4	33	Total Units
Total SF	5,842	0	210	150	150	0	0	200	120	2,250	800	3,880	Net Rentable
2nd Floor	**Gross SF**	**5x5**	**5x7**	**5x10**	**5x15**	**7x10**	**9x10**	**10x10**	**10x12**	**10x15**	**10x20**	**Total**	
Units		10	0	7	0	0	1	22	0	4	0	44	Total Units
Total SF	5,842	250	0	350	0	0	90	2,200	0	600	0	3,490	Net Rentable
Total	**Gross SF**	**5x5**	**5x7**	**5x10**	**5x15**	**7x10**	**9x10**	**10x10**	**10x12**	**10x15**	**10x20**	**Total**	
Units		20	6	19	2	2	1	45	2	23	4	124	Total Units
Total SF	17,564	500	210	950	150	140	90	4,500	240	3,450	800	11,030	Net Rentable
% Units		16%	5%	15%	2%	2%	1%	36%	2%	19%	3%	100%	
												89	Avg SF/Unit
												63%	Efficiency
Accessible Units:		**5x5**	**5x7**	**5x10**	**5x15**	**7x10**	**9x10**	**10x10**	**10x12**	**10x15**	**10x20**	**Total**	
Up to 200 @	5%	0	2	2	0	0	0	2	0	1	0	7	5%
Total		0	2	2	0	0	0	2	0	1	0	7	

Note: Unit sizes indicated are nominal, and are subject to variation.

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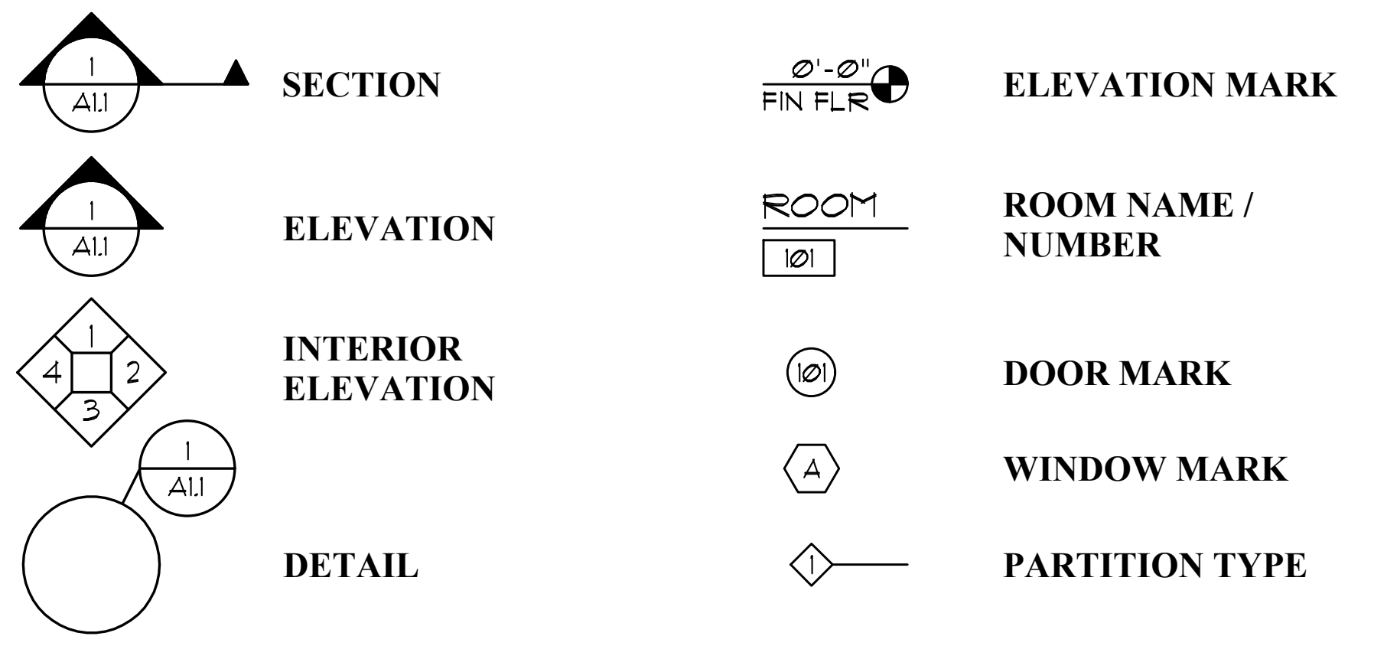
S5.1 SECTIONS AND DETAILS

GRAPHIC SYMBOLS



SCOTT D. STINARD
032362-1

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Life Storage #230
Self Storage Phase II

1639 Route 22
Brewster, NY 10509

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ISSUE: FOR CONSTRUCTION
REVISIONS:
△1 4-20-23 CITY COMMENTS

PROJECT NUMBER 201941
DATE 9-28-22

SHEET NUMBER
A0.1

UL DESIGNS

Through-penetration Firestop Systems

System No. C-AJ-1364

February 08, 2010

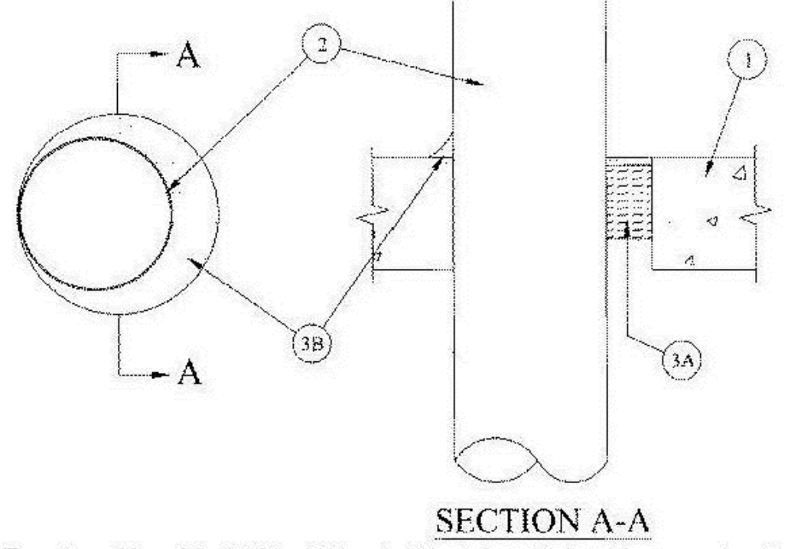
F Rating — 2 Hr

T Rating — 0 Hr

L Rating At Ambient — Less Than 1 CFM/sq ft

L Rating At 400 F — 2 CFM/sq ft

W Rating — Class 1



1. **Floor Assembly** — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600 - 2400 kg/m^3) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 25-7/8 in. (657 mm).

   See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Through Penetrants** — One metallic pipe, tubing or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between tube and periphery of opening shall be min 0 in.(point contact) to max 1-7/8 in. (48 mm). Penetrants to be rigidly supported on both sides of floor assembly. The following types and sizes of metallic pipes, tubing or conduit may be used:
   - A. **Steel Pipe** — Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   - B. **Iron Pipe** — Nom 24 in. (610 mm) diam (or smaller) cast or ductile iron pipe.
   - C. **Conduit** — Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit.
   - D. **Conduit** — Nom 4 in. (102 mm) (or smaller) steel electrical metallic tubing.
   - E. **Copper Tubing** — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tube.
   - F. **Copper Pipe** — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
3. **Firestop System** — The details of the firestop system shall be as follows:
   - A. **Packing Material** — Min 3 in. (76 mm) thickness of min 4 pcf (64 kg / m^3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor to accommodate the required thickness of fill material.
   - B. **Fill, Void or Cavity Materials* — Sealant** — Min 1/4 in. (6 mm) thickness of fill material applied within the annulus, flush with top surface of floor. Min 1/2 in. (13 mm) diam bead of caulk applied to the penetrant/concrete interface at the point contact location on the top surface of floor.

   3M COMPANY — FB-1000 NS, FB-1003 SL or FB-3000 WT

*Bearing the UL Classification Mark

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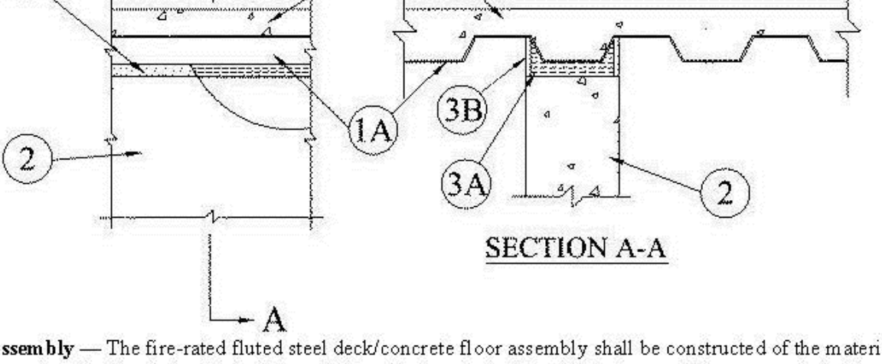
Joint Systems
System No. HW-D-0174

September 28, 2001

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



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.

   IIG MINWOOL L L C — MinWool-1200 Safing
   ROCK WOOL MANUFACTURING CO — Delta Board or Delta -8
   ROCKWOOL MALAYSIA SDN BHD — Type Safe
   ROXUL INC — 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

*Bearing the UL Classification Mark

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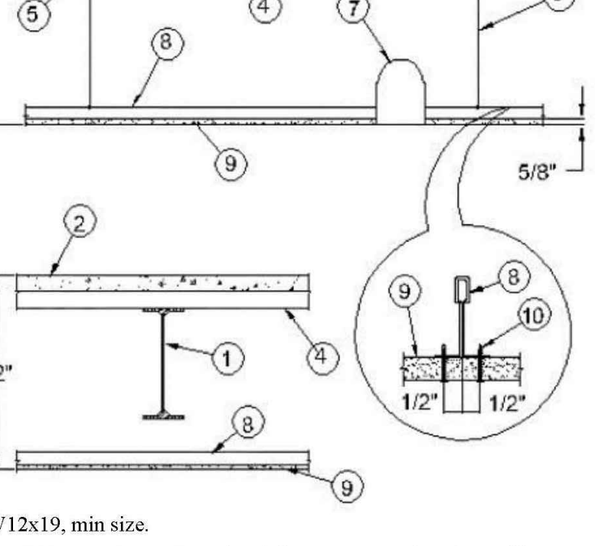
Design No. D503

April 28, 2014

Restrained Assembly Ratings - 1 or 2 Hr (See Item 2)
Unrestrained Assembly Ratings - 1 or 2 Hr (See Item 2)
Unrestrained Beam Ratings - 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. **Beam** — W12x19, min size.

2. **Normal Weight Concrete** — Normal weight concrete, carbonate or siliceous aggregate, 152 ± 3 pcf unit weight, 4000 psi compressive strength. Concrete thickness above top of steel floor units min. 2 in. for 1 hr assembly ratings and 2 hr unrestrained beam rating and 2-1/2 in. for 2 hr assembly ratings.

3. **Steel Fiber Reinforcement*** — (Not Shown) — Steel fibers added to concrete mix to control shrinkage cracks in concrete. See Fiber Reinforcement (CBXQ) Category for rate that fibers are added to concrete mix.

4. **Steel Floor Units*** — Min. 2 in. deep, min. 20-gauge galv fluted steel floor units welded to supports. Welds spaced 12 in. OC. Supports spaced max. 10 ft OC. See Steel Floor and Form Units (CHWX) Category for names of manufactures.

5. **Hanger Tab** — No. 18 GSG galv steel, 2 in. wide by 3-1/2 in. long, hooked at one end for attachment over male side joint of floor units; other end provided with hole for attachment of hanger wire. Spaced along side joints of floor units as required for hanger wire locations.

6. **Hanger Wire** — No. 12 SWG galv steel wire. Hanger wires spaced not over 48 in. O.C. along main runners and located at ends of main runners at walls.

7. **Recessed Luminaires Classified for Fire Resistance*** — Recessed incandescent luminaires having nominal 6 in diam. Spacing of luminaires not to exceed one luminiaire per 25 sq ft of ceiling area with a min separation of 3 ft between luminaires. Luminaires installed in accordance with accompanying instructions. Wired in conformance with the National Electrical Code. See **Luminaires Classified for Fire Resistance** (CDHW) Category for names of manufactures.

8. **Steel Framing Members*** — Main runners nom 12 ft long spaced 48 in. OC. Cross tees nom 4 ft long installed perpendicular to main runners and spaced 24 in. OC. Additional cross tees located 8 in. from and on both sides of each wallboard end joint.

CHICAGO METALLIC CORP — Type 650, 650C, 670, 670C

8A. **Steel Framing Members*** — As an alternate to Item 8. Main runners, cross tees, cross channels and wall angle as listed below:

   a. **Main Runners** — Nom 10 or 12 ft. long, 15/16 in. or 1-1/2 in. wide face, spaced 4 ft. OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Hanger wires to be located adjacent to main runner/cross tee intersections.

   b. **Cross Tees** — Nom 4 ft. long, 1-1/2 in. wide face, installed perpendicular to the main runners, spaced 24 in. OC. Additional cross tees or cross channels used at 8 in. from each side of butted wallboard end joints. The cross tees or cross channels may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.

   c. **Cross Channels** — Nom 4 ft. long installed perpendicular to main runners spaced 24 in. OC.

   d. **Wall Angle or Channel** — Painted or galv steel angle with 1 in. legs or channel with 1 in. legs, 1-9/16 in. deep attached to walls at perimeter of ceiling with fasteners 16 in. OC. To support steel framing member ends and for screw-attachment of the gypsum wallboard.

   CGC INC — Type DGL or RX.
   USG INTERIORS LLC — Type DGL or RX.

8B. **Steel Framing Members*** — (Not Shown) — As an alternate to Items 8 and 8A - Main runners nom 12 ft long, spaced 72 in. OC. Cross tees, nom 6 ft long, installed perpendicular to main runners and spaced 24 in. OC. Additional 6 ft long cross tees required at each gypsum board end joint with butted gypsum board end joints centered between cross tees spaced 8 in. OC. The main runners and cross tees may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.

USG INTERIORS LLC — Type DGL or RX

9. **Gypsum Board*** — 5/8 in. thick, 4 ft wide, installed with long dimension perpendicular to cross tees with side joints centered along main runners. Wallboard fastened to each cross tee with five wallboard screws with one screw located at the mid-span of the cross tee, one screw located 12 in. from and on each side of the cross tee mid-span, and one screw located 1-1/2 in. from each wallboard side joint. Except at wallboard end joints, wallboard screws shall be located on alternating sides of cross tee flange.

At wallboard end joints, wallboard screws shall be located 1/2 in. from the joint. Wallboard fastened to main runners with wallboard screws, 1/2 in. from side joints midway between intersections with cross tees (24 in. OC) End joints of adjacent wallboard sheets shall be staggered not less than 4 ft OC. Wallboard sheets screw-attached to leg of wall angle with wallboard screws spaced 12 in. OC.

When alternate **Steel Framing Members*** (Item 8B) are used, gypsum board sheets installed with long dimension (side joints) perpendicular to the 6 ft long cross tees with the end joints staggered min 4 ft and centered between cross tees which are spaced 8 in. OC. Gypsum board side joints may occur beneath or between main runners. Prior to installation of the gypsum board sheets, backer strips consisting of nom 7-3/4 in. wide pieces of gypsum board are to be laid atop the cross tee flanges and centered over each butted end joint location. The backer strips are to be secured to the flanges of the cross tees at opposite corners of the backer strip with hold down clips to prevent the backer strips from being uplifted during screw-attachment of the gypsum board sheets. Gypsum board fastened to cross tees with 1 in. drywall screws spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board. The butted end joints are to be secured to the backer strip with No. 10 by 1-1/2 in. long Type G laminating screws located 1 in. from each side of the butted end joint and spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board.

CGC INC — Type C
UNITED STATES GYPSUM CO — Type C
USG MEXICO S A DE C V — Type C

10. **Screw, Wallboard** — Type S-12, 1 in. long, self-drilling and self-tapping, 0.163 in. thread diam, 5/16 in. diam heads.

11. **Finishing System** — (Not Shown) — Paper tape embedded in compound over joints and covered with additional compound. Exposed screw heads covered with compound. Edges of compound feathered out.

12. **Wall Angle** — (Not Shown) — No. 26 MSG angle with 1-1/8 in. legs, nailed to the walls along perimeter of ceiling to support steel framing member ends and for screw-attachment of the gypsum wallboard.

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

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Design No. G701

October 17, 2017

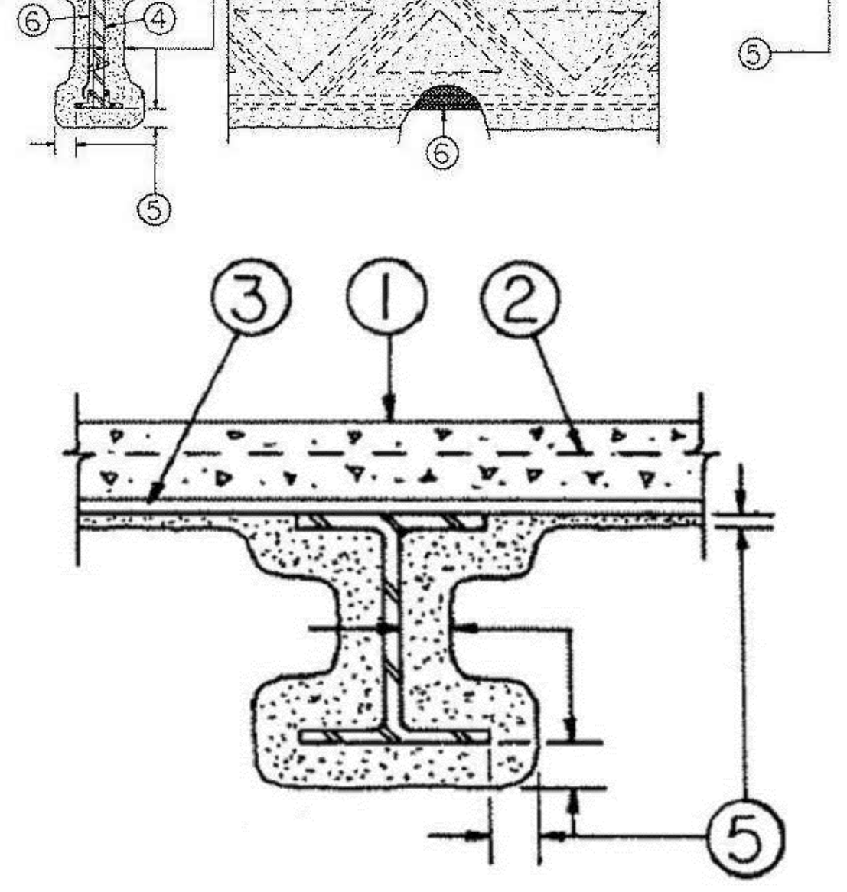
Restrained Assembly Ratings — 1, 1-1/2, 2 or 3 Hr (See Items 4, 4A, 5).

Unrestrained Assembly Ratings — 1, 1-1/2, or 2 Hr (See Items 1, 5).

Unrestrained Beam Ratings — 1, 1-1/2, 2 or 3 Hr (See Item 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.**



Beam — W8x28 min size. As alternate to steel beams, Joist girders — (Not Shown) — 20 in. min depth and 20 lb per lin ft min weight.

1. **Normal Weight or Lightweight Aggregate Concrete** — Normal weight, carbonate or siliceous aggregate concrete, 150 pcf unit weight, 3500 psi compressive strength, vibrated. Lightweight concrete, expanded shale, clay, or slate aggregate by rotary-kiln method, 117 pcf unit weight, 3500 psi compressive strength, vibrated, 2 oz air entrainment per bag of cement. For 1-1/2 and 2 hr assembly ratings, the 2-3/4 in. concrete topping thickness may be reduced to 2-1/2 in. when noncomposite joists are used. The Unrestrained Assembly Rating depends on the type of concrete aggregate and joist spacing as shown below.

	Unrestrained Assembly Rating Hr	
	Max Joist Spacing 3 Ft 6 In.	Joist Spacing Greater Than 3 Ft 6 In. OC
Lightweight aggregate	1-1/2 Hr.	1-1/2 Hr.
Normal Weight aggregate	2 Hr.	1-1/2 Hr.

2. **Welded Wire Fabric** — 6x6 — 8/8 SWG.

3. **Steel Form Units** — No. 28 MSG galv corrugated sheet steel min, 2-1/2 in. pitch and 1/2 in. depth of corrugations. Units welded to each joist, 36 welds per 100 sq ft of form units, with at least one weld at each joint.

Any manufacturer — Corrugated deck having a cross-section similar to above illustration.

4. **Steel Joists** — Min. 16K6 or heavier with min. 3/4 in. diam or larger cross sectional area for web members. As an alternate, any LH-Series steel joists spanning no greater than 60 ft may be used. For spans greater than 60 ft., LH-Series joists may be used provided that the deflection under their published total load shall not be greater than 1/277 of the joist span.

4A. **Horizontal Bridging** — (not shown) — Min 1-1/4x1-1/4x1/8 in. thick steel angles for use with noncomposite joists (Item 4). Number and spacing per Steel Joist Institute specifications. Welded to top and bottom chord of the joists. Min thickness of Spray-Applied Fire Resistive Materials on bridging angles is 1-1/2 in.

4B. **Composite Joists** — (Not Shown) — As an alternate to Items 4 and 4A, steel joists designed for full composite action with the concrete slab. Min. overall depth 13 in. Min area of joist members shall be 0.708 sq in. for top and bottom chord angles and 0.442 sq in. for web. Designed in accordance with SJI Specifications for K-Series joists as revised to November 15, 1989.

4C. **Structural Steel Members*** — (Not Shown) — As an alternate to 4, 4A and 4B — (Not Shown) — Composite joists with top chord embedded in concrete slab. Welded to end supports. Min area of joist members shall be 0.708 sq in. for top and bottom chord angles and 0.442 sq in. for web.

VESCOM STRUCTURAL SYSTEMS INC — Type V.

5. **Spray-Applied Fire Resistive Materials*** — Applied by mixing with water and spraying in more than one coat to a final thickness as shown below to steel surfaces which must be free of dirt, loose scale and oil. Min avg and min ind density of 15/14 pcf respectively. Min avg and min ind density of 19/18 pcf respectively for Type 7GP and 7HD. For method of density determination, see Design Information Section, sprayed materials.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Min Spray Applied Fire Resistive Mtl Thkns In.		
			Deck	Beam	Joist
1	1	1	1/2	7/16	1-1/2
1-1/2	1	1	1/2	7/16	1-1/2
1-1/2	1-1/2	1-1/2	1/2	3/4	1-1/2
2	1	1	1/2	7/16	1-1/2
2	1-1/2	1-1/2	1/2	3/4	1-1/2
2	2	2	1/2	1	1-1/2
3	1-1/2	1-1/2	1/2	3/4	1-1/2
3	2	2	1/2	1	1-1/2
3	2	3	1/2	1-5/16	—

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

PYROK INC — Type LD.

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

GCP APPLIED TECHNOLOGIES INC — Types MK-4, MK-6/HY, MK-6s, Monokote Acoustic 1, RG.

5A. **Alternate Spray-Applied Fire Resistive Materials*** — Applied by mixing with water and spraying in more than one coat to a final thickness as shown below to steel surfaces which must be free of dirt, loose scale and oil. Min avg and min ind density of 22/19 pcf, respectively. For method of density determination see Design Information Section, sprayed materials.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Min Spray Applied Fire Resistive Mtl Thkns In.		
			Deck	Beam	Joist
1	1	1	5/8	7/16	1-1/2
1-1/2	1	1	5/8	7/16	1-1/2
1-1/2	1-1/2	1-1/2	5/8	3/4	1-1/2
2	1	1	5/8	7/16	1-1/2
2	1-1/2	1-1/2	5/8	3/4	1-9/16
2	2	2	5/8	1	1-9/16
3	1-1/2	1-1/2	15/16	3/4	1-9/16
3	2	2	15/16	1	1-9/16
3	2	3	15/16	1-5/16	—

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

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

6. **Metal Lath** — (Optional) — Metal lath may be used to facilitate the spray application of Spray-Applied Fire Resistive Materials on steel bar joists and trusses. The diamond mesh, 3/8 in. expanded steel lath, 1.7 to 3.4 lb/sq yd is secured to one side of each steel joist with No. 18 SWG galv steel wire at joist web and bottom chord members, spaced 15 in. OC max. When used, the metal lath is to be fully covered with Spray-Applied Fire Resistive Materials with no min thickness requirements.

6A. **Nonmetallic fabric mesh** — (Optional, not shown) — As an alternate to metal lath, glass fiber mesh, weighing approximately 2.5 oz/sq yd, polypropylene fabric mesh, weighing approximately 1.25 oz/sq yd or equivalent, may be used to facilitate the spray application. The mesh is secured to one side of each joist web member. The method of attaching the mesh must be sufficient to hold the mesh and the spray-applied resistive material in place during application until it has cured. An acceptable method to attach the mesh is by embedding the mesh in minimum 1/4 in. long beads of hot melted glue. The beads of glue shall be spaced a maximum of 12 in. O.C. along the top chord of the bar joist. Another method to secure the mesh is by 1-1/4 in. long by 1/2 in. wide hairpin clips formed from No. 18 SWG or heavier steel wire.

7. **Metal Lath** — (Not Shown) — Where Type 7HD is applied to steel deck, 3/8 in. metal ribbed lath weighing 3.4 lb/yd^2 shall be secured to the underside of the steel deck (ribs upward) with S-12 by 3/8 in. long pan head, self-tapping steel screws spaced 12 in. OC in all directions. Steel screws shall be fitted with 1/2 in. diameter steel washers. Adjacent pieces of lath shall be overlapped 1 in. min.

*** 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 2017-10-17

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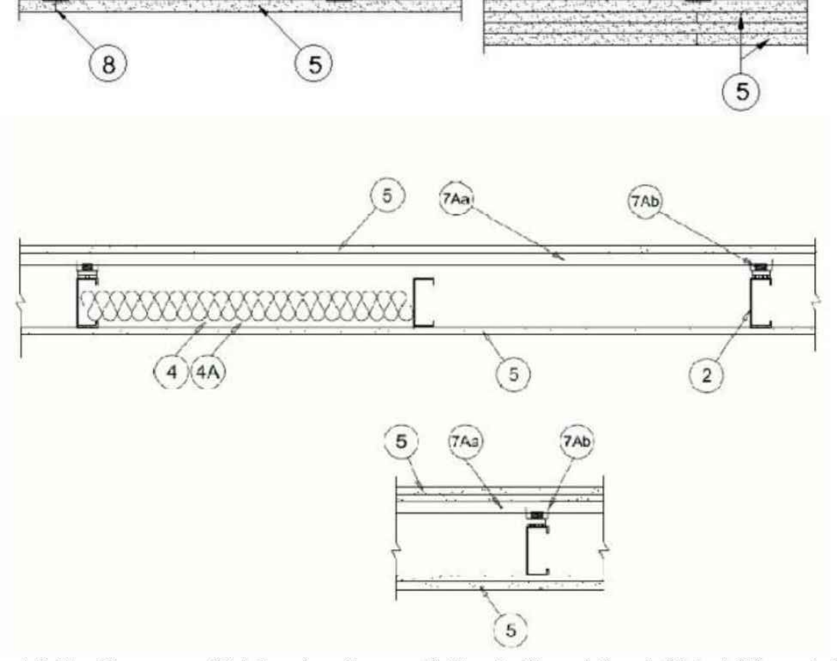
Fire-resistance Ratings - ANSI/UL 263

Design No. U419

June 10, 2013

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



1. **Floor and Ceiling Runners —** (Not shown) — For use with Item 2 - Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.
1A. **Framing Members* - Floor and Ceiling Runner —** Not shown - In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.
   CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™ Track
   CRACO MFG INC — SmartTrack™
   MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track
   PHILLIPS MFG CO L L C — Viper25™ Track

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
   PHILLIPS MFG CO L L C — 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 BUILDING SUPPLIES — ProTRAK
   RAM SALES L L C — Ram ProTRAK
   SOUTHEASTERN STUD & COMPONENTS INC — ProTRAK
   STEEL STRUCTURAL SYSTEMS L L C — Tri-S ProTRAK

1F. **Framing Members* - Floor and Ceiling Runner —** Not shown - In lieu of Item 1 — For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1- 1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
   SUPER STUD BUILDING PRODUCTS — The Edge

1G. **Framing Members* - Floor and Ceiling Runner —** For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max.
   STUDCO BUILDING SYSTEMS — CROCSTUD Track

1H. **Floor and Ceiling Runners —** (Not shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.02 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC.
   MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100.

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

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 and 5J) 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 or 5I) - Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a ½ in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.
   CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™
   CRACO MFG INC — SmartStud™
   MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™
   PHILLIPS MFG CO L L C — Viper25™

2C. **Framing Members* - Steel Studs —** Not shown - In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.020 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.
   CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™
   MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™
   PHILLIPS MFG CO L L C — Viper20™

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 5G or 5I only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
   CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD
   DMFCWBS L L C — ProSTUD
   MBA BUILDING SUPPLIES — ProSTUD
   RAM SALES L L C — Ram ProSTUD
   SOUTHEASTERN STUD & COMPONENTS INC — ProSTUD
   STEEL STRUCTURAL SYSTEMS L L C — Tri-S ProSTUD

2F. **Framing Members* - Steel Studs —** Not shown - In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.
   SUPER STUD BUILDING PRODUCTS — The Edge

2G. **Framing Members* - Steel Studs —** Not shown - In lieu of Item 2 - proprietary channel shaped studs, minimum width indicated under Item 5, Studs to be cut 3/8 to 3/4 in less than the assembly height.
   STUDCO BUILDING SYSTEMS — CROCSTUD

2H. **Framing Members*— Steel Studs —** (Not shown, As an alternate to Item 2) — Fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
   TELLING INDUSTRIES L L C — TRUE-STUD™

2I. **Framing Members* - Steel Studs —** (As an alternate to Item 2, For use with Items 5C or 5L) - 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 ½ 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 heights
   TELLING INDUSTRIES L L C — Viper20™

3. **Wood Structural Panel Sheathing —** (Optional, For use with Item 5 Only.)- (Not Shown) - 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, fastener lengths for gypsum panels increased by min. 1/2 in.
4. **Batts and Blankets* —** (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies.
4A. **Batts and Blankets* —** (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets (BKNV or BZJZ) Categories** for names of Classified companies.
5. **Gypsum Board* —** Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Items 2, 2C, 2D, 2F and 2G	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 MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7B, Steel Framing Members*, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

5A. **Gypsum Board* —** (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.
   CGC INC — Type SHX.
   UNITED STATES GYPSUM CO — Type FRX-G, SHX.
   USG MEXICO S A DE C V — Type SHX.

5B. **Gypsum Board* —** (Not Shown) - As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in or ¾ in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 in. or ¾ in. may be used as alternate to all 5/8 in. or ¾ in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or ¾ in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 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 MEXICO S A DE C V — Type SCX.

5D. **Gypsum Board* —** (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.
   UNITED STATES GYPSUM CO — Type USGX.

5E. **Gypsum Board* —** (Not Shown) - (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 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.

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 ; 3/4 in. thick Types IP-X3 or ULTRACODE
   USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

5H. **Gypsum Board* —** (Not Shown) - (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 11A) or Lead Discs (see Item 12A).
   MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

5I. **Gypsum Board* —** (As an alternate to Item 5) - Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5.
   CGC INC — Type ULX
   UNITED STATES GYPSUM CO — Type ULX
   USG MEXICO S A DE C V — Type ULX

5J. **Gypsum Board* —** (Not Shown) - (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
   RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

6. **Fasteners —** (Not shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Two layer systems:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. **Three-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. **Four-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.
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 studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.
      PAC INTERNATIONAL INC — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

7B. **Framing Members* —** (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below:
   a. **Furring Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A and 5E.
   b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.
      KINETICS NOISE CONTROL INC — Type Isomax

7C. **Framing Members* —** Optional - Not Shown - Used as an alternate method to attach resilient channels (Item 7). Clips attached at each intersection of the resilient channel and the steel studs (Item 2). Resilient channels are friction fitted into clips, and then clips are secured to the steel stud with min. 1 in. long Type S-12 steel screws through the center hole of the clip and the resilient channel flange.
   KEENE BUILDING PRODUCTS CO INC — Type RC Assurance.

7D. **Framing Members* —** (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
   a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.
   b. **Steel Framing Members* —** Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
      PLITEQ INC — Type GENIECLIP

7E. **Steel Framing Members —** (Optional, Not Shown)* - Furring channels and resilient sound isolation clip as described below:
   a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured together with four self-tapping No. 8x1/2 Self Drilling screws (2 per side 1 in. and 4 in. from overlap edge). Gypsum board attached to furring channels as described in Item 4. Side joint furring channels shall be attached to studs with RESILMOUNT Sound Isolation Clips - Type A237R located approximately 2 in. from each end of length of channel. Both Gypsum Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in. from joint edge. Not for use with Item 5A and 5E.
   b. **Steel Framing Members* —** Resilient sound isolation clip used to attach furring channels (Item 7Ea) to studs. Clips spaced 24 in. OC., and secured to studs with No. 10 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
      STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

8. **Joint Tape and Compound —** Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.
9. **Siding, Brick or Stucco —** (Optional, not shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.
10. **Caulking and Sealants* —** (Optional, not shown) — A bead of acoustical sealant applied around the partition perimeter for sound control.
   UNITED STATES GYPSUM CO — Type AS

11. **Lead Batten Strips —** (Not Shown, For Use With Item 5B) - Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5B) and optional at remaining stud locations. Required behind vertical joints.
11A. **Lead Batten Strips —** (Not Shown, For Use With Item 5H) Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grades "A, B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations.
12. **Lead Discs or Tabs —** (Not Shown, For Use With Item 5B) - Used in lieu of or in addition to the lead batten strips (Item 11) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5B) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
12A. **Lead Discs —** (Not Shown, for use with Item 5H) Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.9% meeting the Federal Specification QQ-L-201f, Grades "A, B, C or D".
13. **Lead Batten Strips —** (Not Shown, For Use With Item 5E) Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5E) and optional at remaining stud locations.
14. **Lead Tabs —** (Not Shown, For Use With Item 5E) 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 5E) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

*Bearing the UL Classification Mark

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032362-1
STATE OF NEW YORK

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ISSUE: FOR CONSTRUCTION
REVISIONS:

PROJECT NUMBER
201941

DATE
9-28-22

SHEET NUMBER

A0.2

OUTLINE SPECIFICATIONS

1 GENERAL

1.01 FORM OF AGREEMENT: AIA DOCUMENT A101-2007, "STANDARD FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR WHERE THE BASIS OF PAYMENT IS A STIPULATED SUM", WITH AIA DOCUMENT A201-2007 "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION".

ADMINISTRATION OF THE CONTRACT WILL BE BY THE OWNER.

1.02 CONTRACT DOCUMENT AND FIELD CONDITION REVIEW: THE GENERAL CONTRACTOR SHALL COMPARE THE CONTRACT DOCUMENTS WITH EACH OTHER AND THE FIELD CONDITIONS, AND REPORT ANY INCONSISTENCIES, ERRORS, OR OMISSIONS TO THE ARCHITECT BEFORE BEGINNING THE WORK. VERIFY DIMENSIONS AND FIELD CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE BEGINNING THE WORK. WHERE DETAILED INFORMATION IS LACKING, REQUEST INSTRUCTIONS FROM THE ARCHITECT.

1.03 DEFINITIONS:

FURNISH: UNLESS OTHERWISE DEFINED IN GREATER DETAIL, SUPPLY AND DELIVER AN ITEM TO THE PROJECT SITE, READY FOR INSTALLATION.

INSTALL: UNLESS OTHERWISE DEFINED IN GREATER DETAIL, PLACE AN ITEM IN THE PROJECT SO THAT IT IS READY FOR SERVICE OR USE.

PROVIDE: UNLESS OTHERWISE DEFINED IN GREATER DETAIL, FURNISH AND INSTALL AN ITEM, COMPLETE AND READY FOR INTENDED USE.

1.04 SUBMITTALS: THE CONTRACTOR SHALL REVIEW EACH SUBMITTAL FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS AND COORDINATION WITH THE WORK, AND APPLY THE CONTRACTOR'S SIGNED REVIEW STAMP TO THE SUBMITTAL CERTIFYING COMPLIANCE WITH THE CONTRACT DOCUMENTS. SUBMITTALS WITHOUT THE CONTRACTOR'S REVIEW STAMP WILL BE RETURNED WITHOUT REVIEW. TRANSMIT ALL SUBMITTALS TO THE ARCHITECT. REVISE AND RESUBMIT SUBMITTALS AS REQUIRED. SCHEDULE SUBMITTALS TO AVOID DELAY IN THE PROGRESS OF THE WORK, ALLOWING 10 WORKING DAYS FROM ARCHITECT'S RECEIPT FOR INITIAL SUBMITTAL REVIEW, AND 5 WORKING DAYS FOR SUBSEQUENT RESUBMITTAL REVIEWS. SUBMIT RELATED ITEMS AS A SINGLE PACKAGE.

PRODUCT DATA: SUBMIT PDFs MARKED TO CLEARLY INDICATE APPLICABLE PRODUCTS, MODELS, OPTIONS, AND ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS.

SHOP DRAWINGS: SUBMIT PDFs UNLESS OTHERWISE INDICATED OR REQUIRED. PROVIDE DIMENSIONED DRAWINGS AND DETAILS, INCLUDING ADJACENT CONSTRUCTION AND RELATED WORK, AND CLEARLY INDICATE ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS. WHERE INDICATED, SUBMIT SHOP DRAWINGS AND ENGINEERING CALCULATIONS SEALED BY A DESIGN PROFESSIONAL REGISTERED TO PRACTICE IN THE JURISDICTION WHERE THE PROJECT IS LOCATED. CLOUD AND IDENTIFY ALL REVISIONS ON EACH RESUBMITTAL.

SAMPLES: SUBMIT 2 SAMPLES PLUS THE NUMBER REQUIRED BY THE CONTRACTOR, UNLESS OTHERWISE INDICATED. SUBMIT ADDITIONAL SAMPLES AS NECESSARY TO INDICATE THE RANGE OF COLOR, FINISH AND TEXTURE TO BE PROVIDED.

1.05 CUTTING AND PATCHING: CONTRACTOR IS RESPONSIBLE FOR CUTTING, FITTING, AND PATCHING REQUIRED TO COMPLETE THE WORK OR TO MAKE ITS PARTS FIT TOGETHER PROPERLY. DO NOT CUT AND PATCH STRUCTURAL ELEMENTS IN AMANNER THAT WILL REDUCE THEIR LOAD CARRYING CAPACITY. PROTECT EXISTING CONSTRUCTION DURING CUTTING AND PATCHING TO PREVENT DAMAGE. PATCH WITH DURABLE SEAMS THAT ARE AS INVISIBLE AS POSSIBLE. RESTORE EXPOSED FINISHES OF PATCHED AREAS AND EXTEND FINISH RESTORATION INTO ADJOINING CONSTRUCTION IN A MANNER THAT WILL ELIMINATE EVIDENCE OF PATCHING.

1.06 PRODUCTS: PRODUCTS ARE ITEMS PURCHASED BY THE CONTRACTOR FOR INCORPORATION INTO THE WORK. SELECT PRODUCTS THAT COMPLY WITHT THE CONTRACT DOCUMENTS AND GOVERNING REGULATIONS ACCORDING TO THE FOLLOWING:

SEMI-PROPRIETARY SPECIFICATION: WHERE PRODUCTS OR MANUFACTURERES ARE NAMED FOLLOWED BY THE TERM "OR APPROVED SUBSTITUTE", THE CONTRACTOR MAY SUBMIT UNNAMED PRODUCTS TO THE ARCHITECT FOR APPROVAL.

COMPLIANCE SPECIFICATION: WHERE ONLY COMPLIANCE WITH A CODE, STANDARD, OR REGULATION IS INDICATED, PROVIDE A PRODUCT THAT COMPLIES.

DESCRIPTIVE SPECIFICATION: WHERE EXACT CHARACTERISTICS ARE INDICATED, PROVIDE A PRODUCT THAT COMPLIES.

DELIVER, STORE, AND HANDLE PRODUCTS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. INSTALL PRODUCTS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS; WHERE MANUFACTURER'S INSTRUCTIONS CONFLICT WITH THE CONTRACT DOCUMENTS, REQUEST DIRECTION FROM THE ARCHITECT.

1.07 QUALITY CONTROL: THE OWNER WILL PROVIDE AN INDEPENDENT AGENCY TO PERFORM TESTING AND INSPECTIONS INDICATED, OR REQUIRED BY THE AUTHORITIES HAVING JUSRISDICTION. THE CONTRACTOR IS RESPONSIBLE FOR THE COSTS OF RETESTING, WHERE THE RESULTS OF TESTS AND INSPECTIONS PERFORMED INDICATE NONCOMPLIANCE WITH REQUIREMENTS. COOPERATE WITH TESTING AND INSPECTION AGENCIES, INCLUDING SCHEDULING TESTS AND INSPECTIONS, PROVIDING ACCESS TO THE WORK, FURNISHING INCIDENTAL LABOR, AND PROVIDING SECURITY AND PROTECTION OF SAMPLES. PROTECT CONSTRUCTION EXPOSED BY OR FOR TESTING AND INSPECTION, AND REPAIR CONSTRUCTION DAMAGED BY TESTING OR INSPECTION.

2 SITEWORK

2.01 EARTHWORK

GENERAL: SEE CIVIL DRAWINGS, STRUCTURAL DRAWINGS, AND GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS THAT APPLY TO THIS SECTION.

GEOTECHNICAL ENGINEERING: PERFORM SITE PREPARATION, FILL, BACKFILL, COMPACTION AND GRADING OPERATIONS UNDER A QUALITY CONTROL PROGRAM MONITORED BY THE OWNER'S GEOTECHNICAL ENGINEER.

2.02 TERMITE TREATMENT: ENGAGE A LICENSED PROFESSIONAL PEST CONTROL OPERATOR TO APPLY A SOIL TREATMENT TERMITICIDE BEARING A FEDERAL REGISTRATION NUMBER OF THE EPA AND REGISTERED WITH THE LOCAL AUTHORITIES HAVING JURISDICTION. APPLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. TREAT UNDER ALL BUILDING SLABS, ALONG BOTH SIDES OF FOUNDATION WALLS, AT ALL PENETRATIONS, AND IN ALL HOLLOW VOIDS OF FOUNDATION CONSTRUCTION. REAPPLY TREATMENT TO AREAS DISTURBED BY SUBSEQUENT CONSTRUCTION OR LANDSCAPING. PROVIDE A FIVE YEAR WRITTEN WARRANTY AGAINST TERMITE INFESTATION, AGREEING TO RETREAT AND REPAIR DAMAGE.

2.03 FOUNDATION DRAINAGE:

PRODUCTS:

DRAINAGE PIPE: ASTM F667, CORRUGATED POLYETHYLENE PIPE AND FITTINGS, PERFORATED, WITH COUPLINGS FOR SOIL TIGHT JOINTS.

FILTER FABRIC: NONWOVEN SYNTHETIC FIBER GEOTEXTILE FABRIC; "MIRAFI 160N" BY TENCATE GEOSYNTHETICS AMERICAS, OR APPROVED SUBSTITUTE.

DRAINAGE FILL: WASHED CRUSHED STONE, ASTM C33 NO. 57.

INSTALLATION: INSTALL PERFORATED PIPE WITH PERFORATIONS DOWN, JOINING PIPES AND FITTINGS WITH SOILTIGHT JOINTS. PROVIDE CLEAN-OUTS AT MAXIMUM 75 FOOT INTERVALS. PLACE GRAVEL AS INDICATED, SURROUNDED BY FILTER FABRIC.

EXTEND PIPE TO DAYLIGHT, PITCHED IN DIRECTION OF FLOW AT MINIMUM 1% SLOPE.

3 CONCRETE

3.01 CAST-IN-PLACE CONCRETE:

GENERAL: SEE STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS THAT APPLY TO THIS SECTION.

SUBMITTALS: SUBMIT PRODUCT DATA FOR REVIEW.

TOLERANCES: PLACE CONCRETE AT INDICATED LOCATIONS AND ELEVATIONS, TRUE TO LINE, PLUMB, AND LEVEL (1/8" IN 10', 1/4" IN TOTAL).

DRAINAGE FILL: WASHED CRUSHED STONE, ASTM C33 NO. 57. PLACE AND COMPACT DRAINAGE FILL MATERIAL TO REQUIRED ELEVATIONS, WITH A TOLERANCE OF 1/2" IN 10'.

VAPOR RETARDER: MINIMUM 10 MIL PLASTIC SHEET COMPLYING WITH ASTM E1745, CLASS A. INSTALL IN ACCORDANCE WITH ASTM E1643. LAP JOINTS MINMUM 12", AND SEAL JOINTS, PERIMETER AND PENETRATIONS WITH MANUFACTURER'S RECOMMENDED MASTIC OR TAPE.

WATERSTOPS: FLEXIBLE COMPOUND OF BUTYL RUBBER AND SODIUM BENTONITE CLAY; "CCW MIRASTOP" BY CARLISLE COATINGS & WATERPROOFING, INC., OR APPROVED SUBSTITUTE.

PERIMETER INSULATION: ASTM C578 TYPE IV, EXTRUDED POLYSTYRENE BOARD INSULATION, THICKNESS INDICATED, MINIMUM 5 YEAR AGED R-VALUE OF 5.0 PER INCH AT 75 DEG F (ASTM C518), MINIMUM 25 PSI COMPRESSIVE STRENGTH, MAXIMUM FLAME SPREAD INDEX OF 25 AND MAXIMUM SMOKE DEVELOPED INDEX OF 450 (ASTM E84). INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

EXPANSION JOINT FILLER: ASPHALT SATURATED CELLULOSE FIBER STRIPS (ASTM D1751).

EXPANSION JOINT FILLER FOR SEALANT JOINT: ASTM D4819, TYPE II, CLOSED CELL POLYETHYLENE JOINT FILLER, WITH REMOVABLE STRIP FOR SEALANT JOINT; "DEK-O-FOAM" BY W.R. MEADOWS, INC., OR APPROVED SUBSTITUTE.

FINISHING:

INTERIOR SLABS: FLOAT INTERIOR SLABS AND APPLY TROWEL FINISH TO PRODUCE UNIFORM TEXTURE FREE OF TROWEL MARKS.

EXTERIOR SLABS: FLOAT EXTERIOR SLABS AND TREADS, AND APPLY NON-SLIP BROOM FINISH PERPENDICULAR TO TRAFFIC DIRECTION.

FORMED SURFACES: PROVIDE FORM MATERIALS TO PRODUCE A SMOOTH, UNIFORM TEXTURE FOR CONCRETE EXPOSED TO VIEW, WITH REGULAR SEAM AND TIE PATTERNS. FILL VOIDS AND REMOVE PROJECTIONS TO MATCH FORMED CONCRETE COLOR AND TEXTURE.

CONCRETE SURFACE CATEGORY: CSC 2 (ACI 347.3R-13).

CURING: COMPLY WITH ACI 308.1. PROTECT CONCRETE FROM PREMATURE DRYING AND EXCESSIVE HOT OR COLD TEMPERATURES IN ACCORDANCE WITH ACI 305.1 AND ACI 306.1. BEGIN CURING AS SOON AS FREE WATER HAS DISAPPEARED FROM CONCRETE SURFACES AFTER FINISHING.

CONCRETE CURING COMPOUND: ASTM C309 TYPE 1-D, DISSIPATING WATER-BASED LIQUID MEMBRANE-FORMING CONCRETE CURING COMPOUND WITH FUGITIVE DYE; "1100" BY W.R. MEADOWS, INC., OR APPROVED SUBSTITUTE. PREPARE SURFACES AND SPRAY APPLY TO NEW CONCRETE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

INTERIOR CONCRETE SLAB CONTROL AND CONSTRUCTION JOINT FILLER: TWO-COMPONENT, SEMI-RIGID EPOXY JOINT FILLER, 100% SOLIDS, MINIMUM 90 SHORE A HARDNESS (ASTM D 2240), MINIMUM 1,300 PSI TENSIL STRENGTH (ASTM D638), MINIMUM 45% ELONGATION (ASTM D638), CUSTOM COLOR; "MM-80" BY METZGER/MCGUIRE, OR APPROVED SUBSTITUTE. ALLOW CONCRETE SLABS TO CURE MINIMUM 90 DAYS AND STABILIZE INTERIOR TEMPERATURE AT FINAL OCCUPANCY LEVEL BEFORE INSTALLATION. PREPARE SUBSTRATES AND INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AT INTERIOR CONCRETE SLAB CONTROL AND CONSTRUCTION JOINTS. PRIME SUBSTRATES AS RECOMMENDED, INSTALL FULL DEPTH AT CONTROL JOINTS AND MINIMUM 2" DEPTH AT CONSTRUCTION JOINTS, AND TRIM FLUSH WITH CONCRETE SLAB SURFACE.

5 METALS

5.01 METAL FABRICATIONS

GENERAL: SEE STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS THAT APPLY TO THIS SECTION.

SUBMITTALS: SUMBIT SHOP DRAWINGS FOR INDICATED PRODUCTS SEALED BY A PROFESSIONAL ENGINEER REGISTERED TO PRACTICE IN THE JURISDICTION WHERE THE PROJECT IS LOCATED, SHOWING COMPLIANCE WITH THE INDICATED STRUCTURAL REQUIREMENTS WITHOUT EXCEEDING ALLOWABLE WORKING STRESS OF MATERIALS, INCLUDING ANCHORS AND CONNECTIONS.

QUALITY ASSURANCE: FIELD VERIFY DIMENSIONS PRIOR TO SHOP FABRICATION. QUALIFY WELDING PROCESSES AND OPERATORS IN ACCORDANCE WITH AWS D1.1 AND D1.3. COMPLY WITH RECOMMENDATIONS OF NAAMM AMP 510-92 METAL STAIRS MANUAL AND NAAMM AMP 521-01 PIPE RAILING MANUAL.

METALS:

STEEL WIDE FLANGE SHAPES: ASTM A992.

STEEL CHANNELS, ANGLES, AND PLATES: ASTM A36.

STEEL PIPE: ASTM A53, GRADE B.

HOLLOW STEEL SECTIONS (HSS): ASTM A500, GRADE B.

STEEL FLOOR PLATE: ASTM A786, DIAMOND PATTERN.

STEEL SHEET: ASTM A1011.

ALUMINUM DIAMOND PLATE: ASTM B632, 3003-H14 ALLOY.

FABRICATION: FABRICATE TO INDICATED SIZES, DIMENSIONS AND DETAILS. ASSEMBLE WORK TRUE-TO-LINE, WITH TIGHT, CLOSE FITTING JOINTS. EASE EXPOSED EDGES AND GRIND ALL EXPOSED WELDS SMOOTH. PROVIDE COMPONENTS REQUIRED FOR PROPER ANCHORAGE.

FLOOR GRATINGS: BAR TYPE STEEL GRATING DESIGNED IN ACCORDANCE WITH NAAMM MBG 531 TO SUPPORT 100 PSF LIVE LOAD WITH MAXIMUM DEFLECTION OF L/240. HOT-DIP GALVANIZE TO COMPLY WITH ASTM A123 GRADE 65.

STEEL STAIRS AND RAILINGS: FABRICATE TO INDICATED SIZES, DIMENSIONS AND DETAILS. SUMBIT SEALED SHOP DRAWINGS INDICATING COMPLIANCE WITH THE FOLLOWING STRUCTURAL REQUIREMENTS WITHOUT EXCEEDING ALLOWABLE WORKING STRESS OF MATERIALS, INCLUDING ANCHORS AND CONNECTIONS:

1. TREADS AND PLATFORMS: UNIFORM LOAD OF 100 PSF, AND CONCENTRATED LOAD OF 300 LB APPLIED TO AREA OF 4 SQ IN.
2. FRAMING: RESULTING LOADS, INCLUDING RAILING SYSTEM.
3. HANDRAIL OR TOP RAIL OF GUARDRAIL: CONCENTRATED LOAD OF 200 LB APPLIED IN ANY DIRECTION, AND UNIFORM LOAD OF 50 PLF APPLIED IN ANY DIRECTION.
4. INTERMEDIATE GUARDRAIL COMPONENTS: HORIZONTAL LOAD OF 50 LB APPLIED TO AN AREA OF 1 SQ FT.
5. MAXIMUM DEFLECTION: L/240.

FINISH INTERIOR FABRICATIONS WITH SHOP PRIMER. HOT-DIP GALVANIZE EXTERIOR STAIRS AND RAILING FABRICATIONS TO COMPLY WITH ASTM A123 GRADE 85.

STEEL LADDERS: FIXED-RAIL TYPE WITH KNURLED STEEL RUNGS SHOULDERED AND HEADED INTO AND WELDED TO RAILS. SUMBIT SEALED SHOP DRAWINGS INDICATING COMPLIANCE WITH CONCENTRATED LOAD OF 250 POUNDS AT ANY POINT WITHOUT EXCEEDING ALLOWABLE WORKING STRESS OF MATERIALS, INCLUDING ANCHORS AND CONNECTIONS. FINISH INTERIOR FABRICATIONS WITH SHOP PRIMER.

STEEL BOLLARDS: FABRICATE FROM SCHEDULE 40 STEEL PIPE. PROVIDE CUTOUTS FOR FIXTURES AND HOLES FOR WIRING. FINISH WITH SHOP PRIMER.

FINISH: REMOVE SCALE, RUST AND OTHER DELETERIOUS MATERIALS FROM FERROUS METAL IN ACCORDANCE WITH SSPC SP-3 "POWER TOOL CLEANING". UNLESS INDICATED TO BE GALVANIZED OR POWDER COATED, SHOP PRIME FERROUS METAL WITH FABRICATOR'S STANDARD RUST-INHIBITIVE PAINT, APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS TO PROVIDE A MINIMUM DRY FILM THICKNESS OF 2.5 MILS.

UNLESS OTHERWISE INDICATED, HOT-DIP GALVANIZE EXPOSED EXTERIOR ITEMS NOT INDICATED TO BE POWDER COATED, AND ITEMS EMBEDDED IN CONCRETE. COMPLY WITH ASTM A153 FOR FERROUS METAL HARDWARE, AND ASTM A123 GRADE 85 FOR FERROUS METAL SHAPES, PLATES AND BARS.

INSTALLATION: INSTALL WORK TRUE-TO-LINE, PLUMB AND LEVEL, ACCURATELY FITTED AND FREE OF DISTORTION AND DEFECTS. ANCHOR FABRICATIONS SECURELY IN PLACE WITH COMPATIBLE FASTENERS. TOUCH-UP PAINTING WITH SAME MATERIAL USED FOR SHOP PAINTING IMMEDIATELY AFTER ERECTION. REPAIR GALVANIZING TO COMPLY WITH ASTM A780.

FOR EXTERIOR APPLICATIONS AND WHERE BUILT INTO EXTERIOR WALLS, USE GALVANIZED FASTENERS WITH GALVANIZED FERROUS METAL, USE STAINLESS STEEL FASTENERS WITH STAINLESS STEEL AND ALUMINUM MATERIALS, AND USE CADMIUM PLATED FASTENERS WITH OTHER MATERIALS.

6 WOOD

6.01 ROUGH CARPENTRY:

GENERAL: STORE WOOD PRODUCTS OFF GROUND TO PREVENT TWISTING OR WARPING, WITH PROTECTION FROM WEATHER. REPLACE DAMAGED OR DETERIORATED MATERIALS.

SUBMITTALS: SUBMIT PRODUCT DATA FOR REVIEW.

LUMBER - BLOCKING: SOUTHERN YELLOW PINE, SPIB NO. 2, S4S AND GRADESTAMPED, 19% MAXIMUM MOISTURE CONTENT.

PLYWOOD: COMPLY WITH PS-1. PROVIDE APA RATED SHEATHING, EXPOSURE 1, GRADE C-D OR BETTER, THICKNESS AS INDICATED.

PRESERVATIVE PRESSURE TREATMENT (P.T.): PRESERVATIVE PRESSURE TREAT INTERIOR WOOD FRAMING INDICATED AS "P.T." WITH ZINC BORATE TO COMPLY WITH AWPA STANDARD U1 FOR USE CATAGORY 2, AND KILN DRIED AFTER TREATMENT TO MAXIMUM 19% MOISTURE CONTENT.

FIRE RETARDANT TREATMENT (FRT): PRESSURE TREAT WOOD INDICATED AS "FRT" TO COMPLY WITH AWPA STANDARD P49 TO PROVIDE WOOD WITH A FLAME SPREAD AND SMOKE DEVELOPED RATING OF LESS THAN 25 WHEN TESTED IN ACCORDANCE WITH ASTM E84 FOR MINIMUM 30 MINUTE DURATION. PROVIDE TREATMENT TYPE RECOMMENDED BY TREATMENT MANUFACTURER FOR INTENDED USE. TREATMENT TO PROVIDE PROTECTION AGAINST TERMITES AND FUNGAL DECAY, AND BE REGISTERED WITH EPA FOR USE AS A WOOD PRESERVATIVE. TREATED WOOD IN CONTACT WITH CARBON STEEL AND ALUMINUM TO HAVE CORROSION RATES OF LESS THAN 1 MIL PER YEAR WHEN TESTED IN ACCORDANCE WITH FED SPEC MIL-L-19140, PARAGRAPH 4.6.5.2. KILN DRY AFTER TREATMENT TO MAXIMUM MOISTURE CONTENT OF 19% FOR LUMBER AND 15% FOR PLYWOOD, AND STAMP EACH PIECE WITH UL LABEL CLASSIFICAION.

FASTENERS: PROVIDE FASTENERS AS REQUIRED, CORROSION RESISTANT WHERE EXPOSED TO THE EXTERIOR OR IN CONTACT WITH PRESERVATIVE PRESSURE TREATED OR FIRE RETARDANT TREATED WOOD.

INSTALLATION: DISCARD MATERIAL THAT IS TOO SHORT FOR OPTIMUM JOINT ARRANGEMENT, SPLIT, WARPED, BOWED, TWISTED, OR OTHERWISE DEFECTIVE. SET CARPENTRY WORK TO REQUIRED LINES AND ELEVATIONS, WITH MEMBERS PLUMB, LEVEL, SQUARE, AND STRAIGHT (1/4" IN 10', 1/2" TOTAL). CUT MEMBERS TO FIT TIGHTLY, AND SECURELY ATTACH TO SUBSTRATES AND SUPPORTING MEMBERS WITH FASTENERS THAT WILL NOT PENETRATE MEMBER WHERE OPPOSITE SIDE WILL BE EXPOSED TO VIEW OR RECEIVE FINISH MATERIALS. PROVIDE BLOCKING AS REQUIRED FOR ATTACHMENT OF OTHER WORK.

6.02 INSULATING SHEATHING:

GENERAL: PROTECT PRODUCTS FROM EXPOSURE TO WEATHER AND CONTACT WITH WET SURFACES.

SUBMITTALS: SUBMIT PRODUCT DATA FOR REVIEW.

MINERAL WOOL BOARD INSULATION: ASTM C612 TYPE IVB, THICKNESS INDICATED, MINIMUM R-VALUE OF 4.0 PER INCH AT 75 DEG F (ASTM C518), MAXIMUM FLAME SPREAD INDEX OF 0 AND MAXIMUM SMOKE DEVELOPED INDEX OF 0 (ASTM E84), MINIMUM DENSITY OF 11 PCF (ASTM C303); "COMFORTBOARD 110" BY ROCKWOOL, INC., OR APPROVED SUBSTITUTE.

INSTALLATION: INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ATTACH TO METAL FRAMING WITH MANUFACTURER'S RECOMMENDED CORROSION RESISTANT SCREWS AND WASHERS COMLYING WITH ASTM C1002 OR ASTM C954.

7 THERMAL AND MOISTURE PROTECTION

7.01 FLUID-APPLIED WATERPROOFING

GENERAL: SUBMIT PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR REVIEW.

PROJECT CONDITIONS: PERFORM WORK ONLY WHEN EXISTING AND FORECASTED WEATHER CONDITIONS ARE WITHIN THE LIMITS RECOMMENDED BY THE WATERPROOFING MANUFACTURER. DO NOT INSTALL WHEN TEMPERATURES ARE EXPECTED TO FALL BELOW 40 DEGREES F WITHIN 4 HOURS AFTER APPLICATION, OR TO DAMP OR CONTAMINATED SURFACES.

WARRANTY: PROVIDE MANUFACTURER'S 5 YEAR SYSTEM WARRANTY.

FLUID WATERPROOFING: ASTM C836, COLD LIQUID-APPLIED, SINGLE-COMPONENT, SOLVENT-FREE, NON-SHRINK ELASTOMERIC WATERPROOFING MEMBRANE, MINIMUM 82% SOLIDS CONTENT BY WEIGHT (ASTM D1644), MINIMUM 400% ELONGATION (ASTM D412), AND MAXIMUM 0.08 PERMS WATER VAPOR TRANSMISSION (ASTM E96 METHOD B). PROVIDE MANUFACTURER'S RECOMMENDED PRIMERS, SEALANTS, AND ACCESSORIES.

PRODUCT: "HYDRALASTIC 836" BY W.R. MEADOWS, INC., OR APPROVED SUBSTITUTE.

DRAINAGE BOARD: MOLDED POLYSTYRENE DRAINAGE SHEET WITH NONWOVEN GEOTEXTILE FABRIC FACING, MINIMUM 0.40" THICK, MINIMUM FABRIC APPARENT OPENING SIZE 70 US STD SIEVE (ASTM D4751), MINIMUM 15,000 PSF COMPRESSIVE STRENGTH (ASTM D1621 MOD), AND MINIMUM 17 GPM/FT CORE IN PLANE FLOW RATE AT GRADIENT 1.0 (ASTM D4716).

PRODUCT: "MEL-DRAIN 5035" BY W.R. MEADOWS, INC., OR APPROVED SUBSTITUTE.

INSTALLATION: INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. REMOVE PROJECTIONS, FILL VOIDS, AND CLEAN SURFACES TO RECEIVE WATERPROOFING. APPLY WATERPROOFING MEMBRANE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS TO PRODUCE A SEAMLESS MEMBRANE WITH INDICATED MINIMUM CURED THICKNESS. ALLOW MEMBRANE TO CURE. INSTALL DRAINAGE BOARD.

VERTICAL SURFACES: MINIMUM CURED MEMBRANE THICKNESS OF 60 MILS.

7.02 BENTONITE WATERPROOFING

GENERAL: SUBMIT PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR REVIEW.

BENTONITE WATERPROOFING: SODIUM BENTONITE CLAY BETWEEN TWO LAYERS OF NEEDLE-PUNCHED WOVEN AND NONWOVEN POLYPROPYLENE FABRIC; "CCW MIRACLAY" BY CARLISLE COATINGS & WATERPROOFING, INC. OR APPROVED SUBSTITUTE. PROVIDE MANUFACTURER'S RECOMMENDED FASTENERS AND ACESSORIES.

INSTALLATION: INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PROTECT PANELS FROM HYDRATING BEFORE BEING COVERED WITH OVERBURDEN. FOR UNDERSLAB APPLICATION, PLACE OVER LEVEL AND COMPACTED GRADE WITH NON-WOVEN SIDE UP. OVERLAP EDGES 4" MINIMUM AND STAPLE JOINTS. EXTEND MINIMUM 12" UP OR BEYOND PERIMETER FORMS. PROVIDE RECOMMENDED TREATMENT AT ALL PENETRATIONS.

7.03 INSULATION

GENERAL: PROTECT INSULATION PRODUCTS FROM EXPOSURE TO WEATHER AND CONTACT WITH WET SURFACES.

SUBMITTALS: SUBMIT PRODUCT DATA FOR REVIEW.

BATT INSULATION: ASTM C665, TYPE I, UNFACED GLASS FIBER THERMAL BATT INSULATION, MAXIMUM FLAME SPREAD INDEX OF 25 AND MAXIMUM SMOKE DEVELOPED INDEX OF 50 (ASTM E84).

VINYL FACED METAL BUILDING INSULATION: ASTM C991, TYPE I, FLEXIBLE GLASS FIBER INSULATION. PROVIDE WHITE POLYPROPYLENE LAMINATED FACING ON INTERIOR FACE OF FIBERGLASS, MAXIMUM FLAME SPREAD INDEX OF 25 AND MAXIMUM SMOKE DEVELOPED INDEX OF 50 (ASTM E84), AND PERMEANCE NOT EXCEEDING 0.05 WHEN TESTED IN ACCORDANCE WITH ASTM E96. PROVIDE EXTENDED TABS TO FACILITATE ATTACHMENT OVER PURLINS.

THERMAL BLOCKS: POLYISOCYANURATE CORE WITH 26 GAUGE STEEL CLADDING, AZ50 GALVALUME FINISH, MAXIMUM FLAME SPREAD INDEX OF 25 AND MAXIMUM SMOKE INDEX OF 150 (ASTM E84), 1" THICK x MINIMUM 2-1/2" WIDE; "SNS THERMAL SPACE" BY STEEL BUILDING INSULATION, OR APPROVED SUBSTITUTE.

INSTALLATION: INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PROVIDE THICKNESS OF INSULATION INDICATED OR REQUIRED TO ACHIEVE R-VALUE INDICATED. SET VAPOR-RETARDER MEMBRANE TO CONDITIONED SIDE OF CONSTRUCTION. CUT AND FIT TIGHTLY AROUND OBSTRUCTIONS AND FILL VOIDS TO PROVIDE CONTINUOUS FULL-DEPTH LAYER OF INSULATION. SEAL ALL PENETRATIONS THROUGH EXTERIOR WALLS AND UPPERMOST CEILING/ROOF WITH SEALANT.

SEAL ALL SEAMS AND PENETRATIONS IN EXPOSED FACINGS WITH MANUFACTURER'S RECOMMENDED TAPE.

7.04 WATER RESISTIVE BARRIER (WRB)

GENERAL: SUBMIT PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR REVIEW.

WATER RESISTIVE BARRIER (WRB): NON-PERFORATED, NON-WOVEN, SPUNBONDED POLYOLEFIN, < 0.04 CFM/FT^2 AT 75 Pa AIR PENETRATION (ASTM E2357), MINIMUM 280 CM WATER PENETRATION RESISTANCE (AATCC TEST METHOD 127), 28 PERMS WATER VAPOR TRANSMISSION (ASTM E96 METHOD B), MAXIMUM FLAME SPREAD INDEX OF 10 AND MAXIMUM SMOKE DEVELOPED INDEX OF 10 (ASTM E84); "TYVEK COMMERCIALWRAP" BY DUPONT, OR APPROVED SUBSTITUTE. PROVIDE MANUFACTURER'S RECOMMENDED FASTENERS AND SEAM TAPE.

SELF-ADHERED FLASHING (SAF): BUTYL RUBBER ON POLYETHYLENE LAMINATE CARRIER SHEET, 30 MIL MINUMUM TOTAL THICKNESS, COMPLYING WITH AAMA 711-07, CLASS A, LEVEL 3; "STRAIGHT FLASH" BY DUPONT, OR APPROVED SUBSTITUTE. PROVIDE "FLEXWRAP NF" AT SILLS AND WHERE FLEXIBLE SAF IS REQUIRED.

INSTALLATION: INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. APPLY OVER EXTERIOR WALL SUBSTRATE TO PROVIDE A CONTINUOUS DRAINAGE PLANE. COVER EXTERIOR WALL SUBSTRATE WITH CONTINUOUS LAYER OF WRB APPLIED TO DIVERT WATER TO THE EXTERIOR, AND FASTEN TO SUBSTRATE. WEATHERLAP HORIZONTAL AND VERTICAL JOINTS MINIMUM 6", AND EXTEND WRB MINIMUM 12" BEYOND CORNERS. LAP WRB MINIMUM 4" OVER ADJACENT FLASHINGS. PROVIDE SAF FLASHING AT ALL WALL OPENINGS, FABRICATING SILL PAN FLASHING FROM FLEXIBLE SAF, AND INTEGRATE INTO WRB TO MAINTAIN DRAINAGE TO EXTERIOR. SEAL ALL JOINTS WITH SEAM TAPE.

7.05 METAL ROOF PANELS

GENERAL: PROVIDE STRUCTURAL METAL ROOF PANEL SYSTEMS MEETING INDICATED REQUIREMENTS AS DETERMINED BY QUALIFIED TESTING FACILITY:

STRUCTURAL PERFORMANCE: WITHSTAND DESIGN WIND, SNOW, AND OTHER LIVE LOADS INDICATED, WITH MAXIMUM DEFLECTION OF 1/180 OF THE SPAN.

WIND UPLIFT RESISTANCE: COMPLY WITH UL 580 FOR CLASS UL-60.

THERMAL MOVEMENT: ALLOW FOR THERMAL MOVEMENT AND DEFLECTION FROM AMBIENT AND INTERNAL TEMPERATURE VARIATIONS.

SUBMITTALS: SUBMIT SHOP DRAWINGS INDICATING PANEL LAYOUT AND DETAILS OF EACH CONDITION OF INSTALLATION, INCLUDING EDGE CONDITIONS, JOINTS, OPENINGS, PENETRATIONS, FLASHINGS, TRIM, AND FASTENERS AND SEALANT PLACEMENT. INCLUDE PRODUCT DATA AND TEST REPORTS INDICATING COMPLIANCE WITH REQUIREMENTS.

METAL TRAPEZOIDAL SEAM ROOF PANELS: MECHANICALLY SEAMED, CONCEALED FASTENER, TRAPEZOIDAL SEAM STRUCTURAL METAL ROOF PANELS FABRICATED FROM MINIMUM 24 GAUGE STEEL WITH SMOOTH SURFACE; "DOUBLE-LOK" BY MBCI, OR APPROVED SUBSTITUTE. FABRICATE PANELS IN CONTINUOUS LENGTHS WHERE POSSIBLE.

WEATHER TIGHTNESS WARRANTY: 15 YEARS FROM DATE OF SUBSTANTIAL COMPLETION, WITH NO MONETARY LIMITATION.

AIR INFILTRATION: MAXIMUM 0.014 CFM/SQ FT AT 6.24 LBF/SQ FT STATIC AIR PRESSURE (ASTM E1680).

WATER PENETRATION: NO UNCONTROLLED WATER PENETRATION AT 12 LBF/SQ FT STATIC AIR PRESSURE (ASTM E1646).

PANEL SIZE: 24" WIDTH x 3" HEIGHT TRAPEZOIDAL DOUBLE FOLDED JOINT.

PROVIDE WINDCLAMPS WHERE REQUIRED TO WITHSTAND DESIGN WIND LOADS.

GALVALUME FINISH: ALUMINUM-ZINC ALLOY-COATED STEEL SHEET (ASTM A792, GRADE 50, COATING CLASS AZ55), UNPAINTED GALVALUME PLUS FINISH, WITH 20 YEAR WARRANTY.

ACCESSORIES: PROVIDE MANUFACTURER'S RECOMMENDED TWO-PIECE FLOATING CLIPS, FASTENERS, CLOSURES, SEALANTS, AND ACCESSORIES. PROVIDE FLASHING AND TRIM TO MATCH METAL PANEL MATERIAL, THICKNESS AND FINISH.

SNOW GUARDS: ALUMINUM BRACKETS WITH STAINLESS STEEL SET SCREWS DESIGNED TO CLAMP TO STANDING SEAM OF ROOFING PANEL WITHOUT PENETRATING PANEL, WITH ATTACHED SNOW BARS CAPABLE OF ACCEPTING METAL INSERT FINISHED TO MATCH ROOFING PANEL; "SNOWMAX STANDING SEAM" BY ALPINE SNOWGUARDS, OR APPROVED SUBSTITUTE. PROVIDE ONE ICE FLAG ON SNOW BAR CENTERED BETWEEN SEAMS FOR ROOFING PANELS 24" WIDE OR LESS, AND TWO ICE FLAGS EVENLY SPACED FOR ROOFING PANELS WIDER THAN 24".

INSTALLATION: INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PROVIDE SUPPLEMENTAL FRAMING SUPPORTS IN ACCORDANCE WITH ASTM C754. SET UNITS TRUE TO LINE, LEVEL, AND PLUMB (1/16" AT JOINT BETWEEN ADJACENT PANELS, 1/8" IN 10', 1/4" TOTAL).

7.06 METAL WALL PANELS

GENERAL: PROVIDE STRUCTURAL METAL WALL PANEL SYSTEMS MEETING INDICATED REQUIREMENTS AS DETERMINED BY QUALIFIED TESTING AGENCY:

STRUCTURAL PERFORMANCE: WITHSTAND DESIGN WIND LOADS INDICATED, WITH MAXIMUM DEFLECTION OF 1/120 OF THE SPAN.

THERMAL MOVEMENT: ALLOW FOR THERMAL MOVEMENT AND DEFLECTION FROM AMBIENT AND INTERNAL TEMPERATURE VARIATIONS.

SUBMITTALS: SUBMIT SHOP DRAWINGS INDICATING PANEL LAYOUT AND DETAILS OF EACH CONDITION OF INSTALLATION, INCLUDING EDGE CONDITIONS, JOINTS, OPENINGS, PENETRATIONS, FLASHINGS, TRIM, AND FASTENERS AND SEALANT PLACEMENT. INCLUDE PRODUCT DATA AND TEST REPORTS INDICATING COMPLIANCE WITH REQUIREMENTS.

RIBBED METAL WALL PANELS: MINIMUM 26 GAUGE GALVALUME STEEL, SMOOTH SURFACE, 36" WIDE x 1-1/4" HEIGHT, 12" RIB SPACING, WITH GASKETED EXPOSED FASTENING SYSTEM; "PBR" BY MBCI, OR APPROVED SUBSTITUTE.

AIR INFILTRATION: MAXIMUM 0.006 CFM/SQ FT AT 6.24 LBF/SQ FT STATIC AIR PRESSURE (ASTM E1680).

WATER PENETRATION: NO UNCONTROLLED WATER PENETRATION AT 20 LBF/SQ FT STATIC AIR PRESSURE (ASTM E1646).

PREFINISHED: ALUMINUM-ZINC ALLOY-COATED STEEL SHEET (ASTM A792, GRADE 50, COATING CLASS AZ50), 2-COAT 70% FLUOROPOLYMER FINISH SYSTEM IN COLOR INDICATED, WITH 25 YEAR WARRANTY.

GALVALUME FINISH: ALUMINUM-ZINC ALLOY-COATED STEEL SHEET (ASTM A792, GRADE 50, COATING CLASS AZ50), UNPAINTED GALVALUME PLUS FINISH, WITH 20 YEAR WARRANTY.

ACCESSORIES: PROVIDE MANUFACTURER'S RECOMMENDED FASTENERS, CLOSURES, TAPE SEALERS, SEALANTS, AND ACCESSORIES. PROVIDE FLASHING AND TRIM TO MATCH METAL PANEL MATERIAL, THICKNESS AND FINISH.

INSTALLATION: INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PROVIDE SUPPLEMENTAL FRAMING SUPPORTS IN ACCORDANCE WITH ASTM C754. SET UNITS TRUE TO LINE, LEVEL, AND PLUMB (1/16" AT JOINT BETWEEN ADJACENT PANELS, 1/8" IN 10', 1/4" TOTAL).

VERTICAL METAL WALL PANEL FASTENING: MINIMUM #12 TEK SCREWS SPACED 12" O.C. MAXIMUM INTO 16 GAUGE MINIMUM FRAMING SPACED 5'-4" O.C. MAXIMUM.

VERTICAL METAL WALL PANEL FASTENING AT PARAPET: MINIMUM #12 TEK SCREWS SPACED 6" O.C. MAXIMUM INTO 16 GAUGE MINIMUM FRAMING SPACED 4'-0" O.C. MAXIMUM .

7.07 FLASHING AND SHEET METAL

GENERAL: COMPLY WITH RECOMMENDATIONS OF SMACNA "ARCHITECTURAL SHEET METAL MANUAL". FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION. SUBMIT SHOP DRAWINGS INDICATING LAYOUT AND DETAILS, INCLUDING JOINTS AND ATTACHMENTS.

FABRICATION AND INSTALLATION: FABRICATE AND INSTALL IN ACCORDANCE WITH SMACNA "ARCHITECTURAL SHEET METAL MANUAL". INSTALL EXTERIOR FLASHING AND SHEET METAL WATER AND WEATHER TIGHT, TRUE TO LINE AND LEVEL. HEM EXPOSED EDGES OF FABRICATED SHEET METAL. SEPARATE METALS FROM CORROSIVE SUBSTRATES. PROVIDE FOR THERMAL EXPANSION AND BUILDING MOVEMENT. FABRICATE CLEATS AND ATTACHMENT DEVICES FROM SAME MATERIAL OR COMPATABLE NONCORROSIVE MATERIAL, THICKNESS AS RECOMMENDED BUT NOT LESS THAN METAL BEING SECURED. ANCHOR WORK IN PLACE WITH NON-CORROSIVE FASTENERS, CONCEALED WHERE POSSIBLE. SEAL JOINTS AND LAPS WITH ELASTOMERIC SEALANT.

GUTTERS AND DOWNSPOUTS: FABRICATE FROM MINIMUM 24 GAUGE GALVALUME STEEL (ASTM A792, GRADE 50, COATING CLASS AZ50), WITH 2-COAT FLUOROPOLYMER FINISH SYSTEM IN COLOR INDICATED. ATTACH DOWNSPOUTS TO GUTTERS AND STRAPS WITH STAINLESS STEEL RIVETS.

EXPOSED METAL TRIM: FABRICATE FROM MINIMUM 26 GUAGE GALVALUME STEEL (ASTM A792, GRADE 50, COATING CLASS AZ50), WITH 2-COAT FLUOROPOLYMER FINISH SYSTEM IN COLOR INDICATED.

EXPOSED METAL TRIM: FABRICATED FROM 0.032" PREFINISHED ALUMINUM IN (ASTM B209) IN COLOR AS SCHEDULED.

SELF-ADHERED FLASHING (SAF): BUTYL RUBBER ON POLYETHYLENE LAMINATE CARRIER SHEET, COMPLYING WITH AAMA 711-07, TYPE A, LEVEL 3.

7.08 PREFABRICATED ROOF SPECIALTIES

GENERAL: SUBMIT PRODUCT DATA FOR REVIEW.

ROOF HATCHES: SINGLE LEAF ROOF HATCH FABRICATED FROM 14 GAUGE GALVANIZED STEEL, 12" CURB HEIGHT, INSULATED AND WEATHERSTRIPPED, SPRING ASSISTED OPENING MECHANISM WITH AUTOMATIC LOCKING IN THE OPEN POSITION. FINISH WITH RED OXIDE ALKYD PRIMER.

36"x30" OPENING: "TYPE S ROOF HATCH" BY BILCO COMPANY, OR APPROVED SUBSTITUTE.

PROVIDE "LU-1 LADDERUP" SAFETY POST FOR INSTALLATION ON FIXED LADDER BELOW ROOF HATCH.

INSTALLATION: INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. SET UNITS LEVEL, PLUMB, AND ALIGNED WITH ADJACENT CONSTRUCTION.

7 THERMAL AND MOISTURE PROTECTION (CONTINUED)

7.09 SEALANTS

GENERAL: SUBMIT PRODUCT DATA FOR REVIEW.

SEALANTS: PROVIDE JOINT SEALANTS, JOINT FILLERS, AND OTHER RELATED MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH JOINT SUBSTRATES UNDER SERVICE AND APPLICATION CONDITIONS, AS RECOMMENDED BY THE MANUFACTURER. INSTALL SEALANTS IN COMPLIANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND ASTM C1193.

EXTERIOR ELASTOMERIC SEALANT: AT EXTERIOR JOINTS PROVIDE MULTI-COMPONENT CHEMICALLY-CURING, NON-SAG POLYURETHANE SEALANT COMPLYING WITH ASTM C920 TYPE M, GRADE NS, CLASS 50, USE M, A, G, T, AND O; "DYNATROL II" BY PECORA CORPORATION, OR APPROVED SUBSTITUTE. CUSTOM COLORS TO BE SELECTED. PRIME SUBSTRATES AS RECOMMENDED AND INSTALL OVER PLASTIC FOAM BACKER ROD OR BOND BREAKER TAPE.

INTERIOR GENERAL SEALANT: AT INTERIOR JOINTS NOT SUBJECT TO MOVEMENT, PROVIDE NON-SAG, MILDEW RESISTANT, PAINTABLE, ACRYLIC LATEX SEALANT COMPLYING WITH ASTM C834; "AC-20" BY PECORA CORPORATION, OR APPROVED SUBSTITUTE. INSTALL OVER CLOSED-CELL POLYURETHANE FOAM BACKER ROD OR BOND BREAKER TAPE.

INTERIOR FLOOR EXPANSION JOINT SEALANT: AT INTERIOR CONCRETE SLAB EXPANSION JOINTS, PROVIDE TWO-COMPONENT, NON-SAG POLYURETHANE SEALANT COMPLYING WITH ASTM C920 TYPE M, GRADE NS, CLASS 12.5, USE T, M, AND O, WITH MINIMUM 50 SHORE A HARDNESS (ASTM D2240 ULTIMATE); "DYNAFLEX" BY PECORA CORPORATION, OR APPROVED SUBSTITUTE. PRIME SUBSTRATES AS RECOMMENDED, AND INSTALL OVER CLOSED-CELL POLYURETHANE FOAM BACKER ROD OR BOND BREAKER TAPE AT EXPANSION JOINTS.

INTERIOR FIRE BARRIER SEALANT: AT FIRE-RATED ASSEMBLY JOINTS AND PENETRATIONS, PROVIDE NON-SLUMP, SINGLE COMPONENT, NEUTRAL CURE ELASTOMERIC FIRESTOP SEALANT, UL LISTED FOR APPLICATION INDICATED. PROVIDE MINERAL WOOL INSULATION BACKING AND INSTALL IN COMPLIANCE WITH UL LISTING.

8 OPENINGS

8.01 HOLLOW METAL DOORS AND FRAMES

GENERAL: COMPLY WITH ANSI A250.8/SDI 100.

SUBMITTALS: SUBMIT PRODUCT DATA AND SHOP DRAWINGS FOR REVIEW.

FIRE RATED OPENINGS: PROVIDE UL OR WH LABELED DOORS AND FRAMES TESTED IN ACCORDANCE WITH NFPA 252 OR UL 10C, AND COMPLYING WITH NFPA 80.

HOLLOW METAL FRAMES: FABRICATE FRAMES FROM MINIMUM 16 GAUGE COLD-ROLLED STEEL (ASTM A1008). PREPARE FRAMES TO RECEIVE MORTISED AND CONCEALED HARDWARE AND REINFORCE FRAMES TO RECEIVE SURFACE APPLIED HARDWARE IN ACCORDANCE WITH ANSI A250.6. MAKE PROVISIONS FOR INSTALLATION OF ELECTRICAL ITEMS. PREPARE FRAMES TO RECEIVE 3 SILENCERS ON STRIKE JAMB WHERE INDICATED. PROVIDE MINIMUM 2 FLOOR ANCHORS AND 6 JAMB ANCHORS FOR ALL FRAMES.

EXTERIOR AND MASONRY OPENINGS: FACE WELDED FRAMES WITH WELDS GROUND SMOOTH, FABRICATED FROM GALVANNEALED STEEL (ASTM A653 CLASS A60); "SU SERIES" STEEL FRAMES BY CECO DOOR, OR APPROVED SUBSTITUTE.

INTERIOR NON-MASONRY OPENINGS : FACE WELDED FRAMES WITH WELDS GROUND SMOOTH; "SU SERIES" STEEL FRAMES BY CECO DOOR, OR APPROVED SUBSTITUTE.

CONTRACTOR'S OPTION FOR INTERIOR NON-MASONRY OPENINGS LESS THAN 37" WIDE: KNOCKED-DOWN SLIP-ON DRYWALL TYPE FRAMES WITH INTERLOCKING MITERED CORNERS; "DU SERIES" STEEL FRAMES BY CECO DOOR, OR APPROVED SUBSTITUTE.

HOLLOW METAL DOORS: FABRICATE DOORS FROM MINIMUM 16 GAUGE COLD-ROLLED STEEL (ASTM A1008), WITH BEVELED EDGES, INVERTED CHANNEL REINFORCEMENT TOP AND BOTTOM, AND FULL FLUSH CONSTRUCTION. REINFORCE DOORS TO RECEIVE HARDWARE IN ACCORDANCE WITH ANSI A250.6.

VERTICAL EDGE SEAMS: VISIBLE INTERLOCKED EDGE SEAMS, EPOXY FILLED.

EXTERIOR OPENINGS: DOORS FABRICATED FROM GALVANNEALED STEEL (ASTM A653 CLASS A60), WITH CLOSURE AT TOP EDGE, 1.8 LB/CF DENSITY FOAMED IN PLACE POLYURETHANE CORE, MAXIMUM U-VALUE = 0.31 (ASTM C1363), MAXIMUM AIR INFILTRATION RATE OF 0.06 CFM/SF (ASTM E283); "IMPERIAL" BY CECO DOOR, OR APPROVED SUBSTITUTE.

INTERIOR OPENINGS: DOORS FABRICATED WITH KRAFT HONEYCOMB BONDED CORE; "REGENT" BY CECO DOOR, OR APPROVED SUBSTITUTE.

FINISHES: SHOP PRIME DOORS AND FRAMES WITH MANUFACTURER'S STANDARD BAKED-ON RUST-INHIBITIVE PRIMER IN ACCORDANCE WITH ASNI A250.3 AND A250.10, COMPATIBLE WITH SUBSTRATE AND FIELD APPLIED COATINGS.

INSTALLATION: INSTALL DOORS AND FRAMES IN ACCORDANCE WITH ANSI A250.11 AND ANSI A115.IG. SET FRAMES PLUMB, LEVEL, STRAIGHT, AND SQUARE, AND ANCHOR SECURELY IN PLACE. GROUT JAMBS IN MASONRY CONSTRUCTION. INSTALL DOORS TO ALIGN WITH FRAMES, WITH UNENCUMBERED OPERATION AND UNIFORM CLEARANCES OF 1/8" AT HEAD AND JAMBS, AND 3/4" AT SILL UNLESS OTHERWISE INDICATED. INSTALL FIRE RATED DOORS AND FRAMES IN ACCORDANCE WITH NFPA 80. INSTALL SMOKE AND DRAFT CONTROL DOOR ASSEMBLIES IN ACCORDANCE WITH NFPA 105 AND NFPA 80.

8.02 AUTOMATIC SLIDING ENTRANCES

GENERAL: SUBMIT SHOP DRAWINGS AND PRODUCT DATA FOR REVIEW. FIELD VERIFY ROUGH OPENING DIMENSIONS BEFORE FABRICATION.

AUTOMATIC SLIDING ENTRANCES: AUTOMATIC SLIDING DOOR ASSEMBLY FOR TWO-WAY TRAFFIC PATTERN IN CONFIGURATION INDICATED. PROVIDE EMERGENCY BREAKAWAY CAPABILITY FOR SLIDING LEAF(S) AND SIDELIGHT(S) REQUIRING NOT MORE THAN 50 LBF TO MANUALLY SET IN MOTION, AND COMPLYING WITH BHMA A156.10. FABRICATE FROM EXTRUDED 6063-T6 ALUMINUM MEMBERS. PROVIDE MAUNFACTURER'S STANDARD OPERATORS, ELECTRONIC CONTROLS, SAFETY DEVICES, MOTION AND PRESENCE SENSORS, EMERGENCY BREAKAWAY FEATURE, SLIDING WEATHERSTRIPPING, DOOR BOTTOM SWEEP, AND DOUBLE BEVEL ALUMINUM THRESHOLD.

NOMINAL 1-3/4"x4-1/2" FRAME, 2" STILES, 10" BOTTOM RAILS, AND 2" INTERMEDIATE RAILS.

LOCKING: PROVIDE ONE POINT LOCKING SYSTEM, WITH DEADBOLT OPERATED BY EXTERIOR CYLINDER AND INTERIOR THUMB TURN.

PROVIDE ACCESS CONTROL LOCKING SYSTEM FOR INTEGRATION WITH OWNER'S KEYPAD ACCESS SYSTEM, WITH FAIL-SECURE SOLENOID LOCKING DEVICE, KEYED CONTROL SWITCH, AND KEYED POWER SWITCH.

PRODUCT AND MANUFACTURER: "DURA-GLIDE 3000 SERIES" BY STANLEY ACCESS TECHNOLOGIES, OR APPROVED SUBSTITUTE.

FINISH: DARK BRONZE ANODIC COATING COMPLYING WITH AA-M12C22A44, ARCHITECTURAL CLASS I, AND AAMA 611.

INSTALLATION: INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. SET ENTRANCE PLUMB, LEVEL, STRAIGHT AND SQUARE, AND FASTEN SECURELY IN PLACE. ADJUST DOOR OPERATORS, CONTROLS, AND HARDWARE FOR SMOOTH AND SAFE OPERATION, AND WEATHERTIGHT CLOSURE. COORDINATE INTEGRATION OF OWNER'S KEYPAD ACCESS SYSTEM.

8.03 HARDWARE

GENERAL: SUBMIT PRODUCT DATA AND HARDWARE SCHEDULE FOR REVIEW BEFORE ORDERING HARDWARE.

HARDWARE: PROVIDE HARDWARE AS SCHEDULED BY MANUFACTURER INDICATED, OR APPOVED SUBSTITUTE.

KEYING: PROVIDE 6-PIN CYLINDERS FOR ALL LOCKS. RE-KEY ALL LOCKS AT END OF CONSTRUCTION IN MASTERKEY SYSTEM AS DIRECTED BY OWNER. PROVIDE OWNER WITH 8 MASTERKEYS AND 2 CHANGE KEYS FOR EACH LOCK.

INSTALLATION: INSTALL HARDWARE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND TO COMPLY WITH GOVERNING REGULATIONS. SET UNITS PLUMB, LEVEL, AND TRUE TO LINE AND LOCATION. REINFORCE SUBSTRATES AS REQUIRED FOR PORPER INSTALLATION AND OPERATION, AND DRILL AND COUNTERSINK UNITS THAT ARE NOT PREPARED FOR ACHORAGE FASTENERS. ADJUST HARDWARE TO PROVIDE UNENCUMBERED OPERATION.

REGISTERED ARCHITECT
SCOTT D. STINARD
032988-1
STATE OF NEW YORK

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PROJECT NUMBER
201941

DATE
9-28-22

SHEET NUMBER
A0.3

OUTLINE SPECIFICATIONS

8 OPENINGS (CONTINUED)

8.04 GLASS

GENERAL: COMPLY WITH REQUIREMENTS OF ASTM E1300, GLASS PRODUCT MANUFACTURERS, GANA GLAZING MANUAL, AND GANA LAMINATED GLAZING REFERENCE MANUAL. FOR SAFETY GLAZING COMPLY WITH CPSC 16 CFR PART 1201 AND ANSI Z97.1

PERFORMANCE REQUIREMENTS: PROVIDE GLASS LITES IN MINIMUM THICKNESS TO COMPLY WITH ASTM E1300, BUT NOT LESS THAN THE THICKNESS AND STRENGTH INDICATED OR REQUIRED TO WITHSTANDING DESIGN WIND LOADS INDICATED, THERMAL MOVEMENT RESULTING FROM AMBIENT AND SURFACE TEMPERATURE CHANGES, AND IMPACT LOADS.

SUBMITTALS: SUBMIT PRODUCT DATA FOR REVIEW.

WARRANTIES: MANUFACTURER'S STANDARD WARRANTY TO REPLACE THE FOLLOWING PRODUCTS DURING THE PERIOD INDICATED DUE TO DETERIORATION, INCLUDING PEELING, DISCOLORATION, VISION OBSTRUCTION, HERMATIC SEAL FAILURE, AND DELAMINATION:

COATED GLASS PRODUCTS: 10 YEAR WARRANTY.
INSULATING GLASS: 10 YEAR WARRANTY.

ANNEALED FLOAT GLASS: ASTM C1036, TYPE 1, CLASS 1 (CLEAR) OR CLASS 2 (TINTED) AS INDICATED, QUALITY q3. PROVIDE MINIMUM 6.0 mm THICKNESS UNLESS OTHERWISE INDICATED OR REQUIRED.

HEAT TREATED FLOAT GLASS: ASTM C1048, TYPE I, CLASS 1 (CLEAR) OR CLASS 2 (TINTED) AS INDICATED, QUALITY q3, AND KIND AS INDICATED OR REQUIRED. FABRICATE BY HORIZONTAL ROLLER-HEARTH PROCESS, WITH WAVE DISTORTION PARALLEL TO BOTTOM EDGE AS INSTALLED. PROVIDE MINIMUM 6.0 mm THICKNESS UNLESS OTHERWISE INDICATED OR REQUIRED.

KIND HS: PROVIDE HEAT STRENGTHENED FLOAT GLASS WHERE REQUIRED TO RESIST SHADING INDUCED THERMAL STRESSES AND IMPOSED LOADS.

KIND FT: PROVIDE FULLY TEMPERED FLOAT GLASS WHERE REQUIRED TO RESIST SHADING INDUCED THERMAL STRESSES AND IMPOSED LOADS, OR WHERE SAFETY GLASS IS INDICATED OR REQUIRED (COMPLY WITH CPSC 16 CFR PART 1201 AND ANSI Z97.1).

LOW-E COATED GLASS: ASTM C1376, FLOAT GLASS WITH METALLIC-OXIDE OR NITRIDE COATING APPLIED BY VACUUM DEPOSITION PROCESS AFTER MANUFACTURE, KIND AS INDICATED OR REQUIRED.

FABRICATION: FABRICATE GLAZING UNITS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND REFERENCED GLAZING PUBLICATIONS, TO COMPLY WITH SYSTEM PERFORMANCE REQUIREMENTS. PROVIDE SEALANTS, GLAZING TAPES, GASKETS, AND ACCESSORIES THAT HAVE BEEN TESTED FOR COMPATIBILITY WITH OTHER GLAZING MATERIALS.

INSULATING GLASS UNITS: ASTM E2190. PROVIDE ALUMINUM SPACERS, DUAL EDGE SEAL WITH POLYISOBUTYLENE PRIMARY AND SILICONE SECONDARY, AND DESICCANT.

1" CLEAR LOW-E INSULATING GLASS UNITS:

OUTBOARD LITE: 6mm CLEAR GLASS, KIND AS INDICATED OR REQUIRED, WITH LOW-E COATING ON #2 SURFACE; "SOLARBAN 90" BY VITRO ARCHITECTURAL GLASS, OR APPROVED SUBSTITUTE.

INBOARD LITE: 6mm CLEAR GLASS, KIND AS INDICATED OR REQUIRED.

UNIT PERFORMANCE:VISIBLE LIGHT TRANSMITTANCE = 51%, SHGC = 0.23, AND WINTER U-VALUE = 0.29.

INSTALLATION: COMPLY WITH THE MANUFACTURER'S INSTRUCTIONS. INSTALL GLASS LITES IN SERIES WITH UNIFORM PATTERN, DRAW, AND BOW.

9 FINISHES

9.01 GYPSUM BOARD ASSEMBLIES

GENERAL: PROTECT PRODUCTS FROM EXPOSURE TO WEATHER AND CONTACT WITH WET SURFACES. DO NOT BEGIN GYPSUM BOARD INSTALLATION UNTIL BUILDING ENVELOPE IS WATERTIGHT. DO NOT BEGIN TAPING AND FINISHING UNTIL TEMPERATURE HAS BEEN STABILIZED BETWEEN 50 AND 95 DEGREES F FOR MINIMUM 48 HOURS.

SUBMITTALS: SUBMIT PRODUCT DATA FOR REVIEW.

STEEL FRAMING: ASTM C645, GALVANIZED STEEL STUDS, RUNNERS, TRACK, AND FURRING MEMBERS. SIZE AND SPACING AS INDICATED, MINIMUM METAL THICKNESS AS REQUIRED BY STEEL FRAMING MANUFACTURER'S PUBLISHED LIMITING HEIGHT TABLES.

SUSPENSION SYSTEM: ASTM C635, FIRE RATED HEAVY DUTY CLASSIFICATION, GALVANIZED STEEL CONSTRUCTION WITH KNURLED FACES, FLUSH FIT MAIN TEES AND CROSS TEES. PROVIDE MANUFACTURER'S RECOMMENDED ACCESSORIES AND TRIM. SIZE ATTACHMENT DEVICES FOR 5 TIMES DESIGN LOAD INDICATED IN ASTM C635. PROVIDE MINIMUM 12 GAUGE WIRE FOR HANGERS AND TIES, ASTM A641, CLASS 1 ZINC COATING, SOFT TEMPER, PRE-STRETCHED, WITH YIELD STRESS LOAD AT LEAST THREE TIMES DESIGN LOAD.

GYPSUM BOARD: ASTM C1396, MAXIMUM FLAME SPREAD INDEX OF 25 AND MAXIMUM SMOKE DEVELOPED INDEX OF 450 (ASTM E84), THICKNESS INDICATED, TAPERED EDGES, REGULAR TYPE FOR WALLS AND SAG-RESISTANT TYPE FOR CEILINGS. PROVIDE TYPE X OR TYPE C WHERE INDICATED.

PROVIDE GYPSUM BOARD WITH MOISTURE AND MOLD RESISTANT CORE AND PAPER FACES; "SHEETROCK MOLD TOUGH" BY UNITED STATES GYPSUM COMPANY, "TOUGHROCK MOLD-GUARD" BY GEORGIA PACIFIC GYPSUM LLC, OR APPROVED SUBSTITUTE.

SCREWS: ASTM C1513, SELF-DRILLING, SELF-TAPPING SCREWS AT STEEL FRAMING. ASTM C954 OR ASTM C1002 TYPE S OR S-12 BUGLE OR PANCAKE HEAD AT GYPSUM BOARD TO STEEL FRAMING. PROVIDE CORROSION RESISTANT SCREWS AT COATED GLASS MAT GYPSUM BACKER BOARD AND CEMENT BACKER BOARD.

JOINT COMPOUND AND TAPE: ASTM C475, READY-MIXED ALL-PURPOUSE DRYING-TYPE VINYL BASED JOINT COMPOUND, AND 2" PAPER REINFORCING TAPE.

PROVIDE MANUFACTURER'S RECOMMENDED MOLD AND MILDEW RESISTANT JOINT COMPOUND.

CORNER BEAD AND EDGE TRIM: ASTM C1047, ZINC ALLOY FORMED BEAD, L-TRIM, OR U-TRIM WITH FLANGES FOR CONCEALMENT IN JOINT COMPOUND.

ACOUSTICAL SEALANT: ASTM C834, NON-SAG, PAINTABLE, NON-STAINING LATEX SEALANT, TESTED TO REDUCE AIRBORNE SOUND TRANSMISSION (ASTM E90), AND COMPLYING WITH ASTM E814.

INSTALLATION: COMPLY WITH ASTM C754 FOR STEEL FRAMING INSTALLATION, ASTM C636 FOR DRYWALL SUSPENSION SYSTEMS, AND ASTM C840 AND GA-216 FOR GYPSUM BOARD APPLICATION AND FINISHING. AT FIRE RATED ASSEMBLIES, PROVIDE MATERIALS AND INSTALLATION IDENTICAL TO THOSE LISTED BY UL. ISOLATE STEEL FRAMING FROM BUILDING STRUCTURE, AND PROVIDE SUPPLEMENTARY FRAMING AND BLOCKING TO SUPPORT ATTACHED WORK. APPLY GYPSUM BOARD TO MINIMIZE BUTT JOINTS, WITH END JOINTS STAGGERED MINIMUM 24". AND SCREW ATTACH TO SUPPORTS. PROVIDE CORNER BEAD AT ALL EXTERNAL CORNERS, AND EDGE TRIM WHERE BOARDS ABUT OTHER CONSTRUCTION. EMBED JOINT TAPE AND PAPER FACED METAL TRIM IN JOINT COMPOUND, THEN APPLY 3 COATS OF JOINT COMPOUND OVER JOINTS, TRIM, FASTENERS, AND SURFACE DEFECTS, SANDING AFTER EACH COAT AND LEAVING SURFACE SMOOTH AND FREE OF VISUAL DEFECTS (GA-214 LEVEL 4); EXCEPT APPLY 1 COAT AT CONCEALED SURFACES (GA-214 LEVEL 2).

9.02 RESILIENT TILE FLOORING

GENERAL: PROVIDE RESILIENT TILE FLOORING WITH CRITICAL RADIANT FLUX OF 0.45 WATTS/SQ CM OR GREATER, CLASS I (ASTM E648), AND MAXIMUM SMOKE DEVELOPED OF 450 (ASTM E662). MAINTAIN TEMPERATURE AND HUMIDITY RANGE RECOMMENDED BY MANUFACTURER FOR AT LEAST 48 HOURS BEFORE, DURING AND AFTER INSTALLATION.

SUBMITTALS: SUBMIT PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR REVIEW.

RUBBER TILE: ASTM F1344 CLASS 1, WET AND DRY STATIC COEFFICIENT GREATER THAN 0.60 (ASTM D2047); MANUFACTURER, PRODUCT, AND COLOR AS SCHEDULED. INSTALL WITH MANUFACTURER'S RECOMMENDED ADHESIVE. LAY TILE IN GRID PATTERN.

ACCESSORIES: PROVIDE PATCHING AND LEVELING COMPOUND AND LOW-VOC ADHESIVE AS RECOMMENDED BY RESILIENT FLOORING MANUFACTURER. PROVIDE RESILIENT EDGE/TRANSITION STRIPS TAPERED TO MEET ABUTTING MATERIALS.

INSTALLATION: PREPARE SUBSTRATES AND INSTALL FLOORING IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. EXAMINE SUBSTRATES FOR DEFECTS BEFORE BEGINNING INSTALLATION. REMOVE CONCRETE PROJECTIONS AND FILL LOW SPOTS WITH PATCHING AND LEVELING COMPOUND TO PROVIDE SMOOTH SURFACE. DO NOT DELIVER FLOORING MATERIALS UNTIL TEMPERATURE AND HUMIDITY CONDITIONS HAVE BEEN STABILIZED, AND ACCLIMATE FLOORING MATERIALS IN CONDITIONED SPACE FOR MINIMUM 48 HOURS BEFORE INSTALLATION. CLEAN SURFACES IMMEDIATELY BEFORE INSTALLING FLOORING. LAYOUT FLOORING AS INDICATED, OR TO PROVIDE EQUAL WITDH TILES GREATER THAN HALF-WIDTH AT OPPOSITE ENDS OF SPACES. INSTALL FLOORING BEFORE INSTALLING FLOOR SET CASEWORK AND EQUIPMENT. EXTEND FLOORING INTO RECESSES, AND SCRIBE AND CUT TO FIT PERMANENT CONSTRUCTION WHILE LEAVING RECOMMENDED EXPANSION SPACE. INSTALL RESILIENT EDGE STRIPS AT EDGES OF FLOORING THAT WOULD OTHERWISE BE EXPOSED. CLEAN RESILIENT FLOORING AFTER INSTALLATION.

ADHESIVE INSTALLATION: REMOVE DELETIRIOUS COATINGS FROM SUBSTRATE. TEST SUBSTRATE FOR DRYNESS (ASTM F1869 AND ASTM F2170), PH (ASTM F710) AND BOND - DO NOT PROCEED WITH INSTALLATION UNTIL RESULTS ARE ACCEPTABLE. ADHERE FLOORING TO SUBSTRATE.

9 FINISHES (CONTINUED)

9.03 PAINTING

GENERAL: DELIVER ALL PAINTING MATERIALS IN SEALED, ORIGINAL LABELED CONTAINERS BEARING MANUFACTURER'S NAME, PRODUCT DESCRIPTION, COLOR DESIGNATION, AND APPLICATION INSTRUCTIONS. PROTECT PRODUCTS FROM FREEZING. APPLY PAINT ONLY WHEN THE RELATIVE HUMIDITY IS BELOW 85%, AND THE AMBIENT AIR AND SUBSTRATE TEMPERATURES WILL BE BETWEEN 50 AND 95 DEGREES F DURING AND FOR 24 HOURS FOLLOWING APPLICATION.

SUBMITTALS: SUBMIT PRODUCT DATA FOR REVIEW.

PAINT: PROVIDE PAINT PRODUCTS INDICATED IN COLORS AS SCHEDULED; SHERWIN-WILLIAMS COMPANY UNLESS OTHERWISE INDICATED, OR APPROVED SUBSTITUTE. PROVIDE PRIMERS AND UNDERCOATS PRODUCED BY THE SAME MANUFACTURER AS FINISH COATS, AND THAT ARE COMPATIBLE WITH ONE ANOTHER AND THE SUBSTRATES INDICATED.

INSTALLATION: PREPARE SURFACES AND APPLY PAINT IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. APPLY PAINT ONLY WHEN AMBIENT TEMPERATURE AND RELATIVE HUMIDITY ARE WITHIN MANUFACTURER'S RECOMMENDED RANGE. CLEAN SUBSTRATES OF SUBSTANCES THAT COULD IMPAIR BOND OF PAINTS, INCLUDING DUST, DIRT, OIL, GREASE, AND INCOMPATIBLE PAINTS. UNIFORMLY APPLY COATINGS TO ACHIEVE MANUFACTURER'S RECOMMENDED DRY FILM THICKNESS, WITHOUT RUNS, DRIPS, SAGS, OR BRUSH MARKS. APPLY ADDITIONAL COATS WHEN UNDERCOATS, STAINS, OR OTHER CONDITIONS SHOW THROUGH FINAL COAT, UNTIL PAINT FILM IS OF UNIFORM FINISH, COLOR, AND APPEARANCE. UNLESS OTHERWISE INDICATED, PAINT AND FINISH ALL EXPOSED SURFACES THAT ARE NOT PREFINISHED. DO NOT PAINT CODE REQUIRED LABELS OR EQUIPMENT PLATES. PROVIDE THE FOLLOWING PAINT SYSTEMS FOR THE SUBSTRATES AND GLOSS INDICATED:

EXTERIOR: CONCRETE WALLS - PAINTED:
1ST COAT: LOXON CONCRETE & MASONRY PRIMER SEALER (A24W8300)
2ND COAT: A-100 EXTERIOR LATEX SATIN (A82 SERIES)
3RD COAT: A-100 EXTERIOR LATEX SATIN (A82 SERIES)

EXTERIOR FERROUS, ALUMINUM AND GALVANIZED METAL - SEMI-GLOSS:
1ST COAT (OMIT IF PRE-PRIMED): PRO-CRYL UNIVERSAL PRIMER (B66-310 SERIES)
2ND COAT: SOLO ACRYLIC SEMI-GLOSS (A76 SERIES)
3RD COAT: SOLO ACRYLIC SEMI-GLOSS (A76 SERIES)

INTERIOR MASONRY - EGG-SHELL:
1ST COAT: LOXON BLOCK SURFACER (A24W200)
2ND COAT: PROMAR 200 ZERO VOC LATEX EG-SHEL (B20-2600 SERIES)
3RD COAT: PROMAR 200 ZERO VOC LATEX EG-SHEL (B20-2600 SERIES)

INTERIOR FERROUS, ALUMINUM AND GALVANIZED METAL - SEMI-GLOSS:
1ST COAT (OMIT IF PRE-PRIMED): PRO-CRYL UNIVERSAL PRIMER (B66-310 SERIES)
2ND COAT: PROMAR 200 ZERO VOC LATEX SEMI-GLOSS (B31-2600 SERIES)
3RD COAT: PROMAR 200 ZERO VOC LATEX SEMI-GLOSS (B31-2600 SERIES)

INTERIOR GYPSUM BOARD - EGG-SHELL:
1ST COAT: PROMAR 200 ZERO VOC LATEX PRIMER (B28W2600)
2ND COAT: PROMAR 200 ZERO VOC LATEX EG-SHEL (B20-2600 SERIES)
3RD COAT: PROMAR 200 ZERO VOC LATEX EG-SHEL (B20-2600 SERIES)

INTERIOR CONCRETE FLOORS - CLEAR EPOXY COATING:
1ST COAT: ARMORSEAL 33 EPOXY PRIMER/SEALER (B58CQ33)
2ND COAT: ARMORSEAL 1000 HS EPOXY (B67-2000)
3RD COAT (WHERE SCHEDULED): ARMORSEAL 1000 HS EPOXY (B67-2000)

10 SPECIALTIES

10.01 EMERGENCY ENTRANCE SYSTEMS:

KEY LOCK BOX: UL LISTED KEY LOCK BOX, 1/4" STEEL WELDED HOUSING, 1/2" STEEL DOOR WITH GASKET AND STAINLESS STEEL HINGE, INTERIOR GASKET, BIASED CUT KEY LOCK WITH DUST COVER, INTERFACE FOR BUILDING ALARM SYSTEM, 5"x4"x3" DEEP; "KNOXBOX 3200" BY KNOX COMPANY, OR APPROVED SUBSTITUTE.

MOUNTING: RECESSED, WITH STEEL SHELL AND 7"x7" FLANGE.

COLOR: DARK BRONZE.

INSTALLATION: INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. SET UNITS PLUMB, LEVEL, AND SQUARE.

10.02 FIRE EXTINGUISHERS AND ACCESSORIES

GENERAL: PROVIDE FIRE EXTINGUISHER AT EACH LOCATION INDICATED, AND AT EACH FIRE EXTINGUISHER CABINET.

SUBMITTALS: SUBMIT PRODUCT DATA FOR REVIEW.

FIRE EXTINGUISHERS: NOMINAL 5 LB MULTI-PURPOSE CHEMICAL FIRE EXTINGUISHER, 2A-10BC RATED, PAINTED STEEL CYLINDER, "MP5" BY LARSEN'S MANUFACTURING CO., OR APPROVED SUBSTITUTE. PROVIDE WALL BRACKET FOR FIRE EXTINGUISHERS AT LOCATIONS WITHOUT CABINETS.

INTERIOR FIRE EXTINGUISHER CABINETS: SEMI-RECESSED WITH 2-1/2" ROLLED EDGE, STEEL BOX AND DOOR, FULL CLEAR ACRYLIC DOOR, RED BAKED ENAMEL FINISH; "2409-R3" BY LARSEN'S MANUFACTURING CO., OR APPROVED SUBSTITUTE.

INSTALLATION: INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. MOUNT CABINETS WITH BOTTOM AT 27" ABOVE FINISH FLOOR. SET UNITS PLUMB, LEVEL, AND SQUARE.

10.03 CALL BOX SYSTEM:

GENERAL: SUBMIT PRODUCT DATA FOR REVIEW.

SYSTEM COMPONENTS: ADA COMPLIANT EMERGENCY TWO-WAY COMMUNICATION SYSTEM TO ESTABLISH TWO WAY COMMUNICATION WITH REMOTE MONITORING LOCATION.

CALL BOXES: LINE POWERED, SURFACE MOUNTED, WITH ONE BUTTON 2 NUMBER PROGRAMMABLE CALLING; "2400-805SS" BY RATH AREA OF REFUGE, OR APPROVED SUBSTITUTE.

SIGNAGE: MINIMUM 8"x6" DIRECTIONS SIGN WITH LOCATION AND FLOOR DESIGNATIONS, WITH RAISED LETTERS AND BRAILLE; "7049" BY RATH AREA OF REFUGE, OR APPROVED SUBSTITUTE.

DATA CABLE: 2-HOUR RATED UNSHIELDED CIRCUIT INTEGRITY CABLE, UL 2196.

INSTALLATION: INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. SET UNITS PLUMB, LEVEL, AND SQUARE.

EXTEND DATA CABLES TO TELEPHONE BACKBOARD, FOR CONNECTION TO TELEPHONE NETWORK BY OWNER.

10.04 BOLLARD COVERS: 1/8" THICK POLYETHYLENE COVERS WITH DOMED TOPS DESIGNED TO FIT STANDARD STEEL PIPE BOLLARDS; "BOLLARDGARD" BY INNOPLAST, OR APPROVED SUBSTITTE. INSTALL IN ACCORDANCE WITH THE MAUNFACTURER'S INSTRUCTIONS.

COLOR: SAFETY YELLOW.

10 SPECIALTIES (CONTINUED)

10.05 STORAGE UNIT SYSTEMS

GENERAL: PROVIDE STORAGE UNIT SYSTEMS BY JANUS INTERNATIONAL CORPORATION, OR APPROVED SUBSTITUTE. PROTECT ALL SHARP OR UNFINISHED EDGES WITH PROTECTIVE COVERS OR BY HEMMING, AND COVER ALL EXPOSED FASTENER TIPS WITH PLASTIC COVERS. PROVIDE METAL REINFORCEMENT OR BACKING FOR ALL SURFACE MOUNTED EQUIPMENT, INCLUDING EQUIPMENT PROVIDED BY OTHERS. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

SUBMITTALS: SUBMIT SHOP DRAWINGS FOR REVIEW.

INTERIOR COILING DOORS: "MODEL 650" MANUALLY OPERATED OVERHEAD COILING DOOR, 26 GAUGE CORRUGATED CURTAIN FABRICATED FROM GALVANIZED STEEL, PAINTED FINISH IN COLOR AS SCHEDULED, EXTERIOR LIFT HANDLE(S) ON BOTTOM BAR.

LATCH: ZINC COATED STAINLESS STEEL; JANUS MINI LATCH.

COILING DOOR ELECTRIC OPERATOR: "PANTHEON" DRUM MOUNTED LOW VOLTAGE DC MOTOR OPERATOR, UL 325 COMPLIANT CONTROLLER WITH UP/DOWN/STOP OPERATION AND KEYED SWITCH, ELECTRONIC LIMITS, SOFT START AND SOFT STOP, AND MANUAL RELEASE FOR MANUAL OPERATION.

HALLWAY SYSTEM: PROVIDE RELATED HOT-DIP GALVANIZED FRAMING, CHANNELS, ANGLES, HARDWARE, AND FASTENERS. COVER ALL GYPSUM BOARD, FIREPROOFING, PIPES, WIRES, AND CONDUITS EXPOSED IN CORRIDORS AND LOBBIES WITH HEMMED 20 GAUGE GALVALUME STEEL COVER WITH PAINTED FINISH TO THE HEIGHT OF THE HALLWAY SYSTEM.

DOOR PIERS AND HEADERS: FLUSH PANELS FABRICATED FROM MINIMUM 20 GAUGE HOT-DIP GALVANIZED STEEL, WITH PAINTED FINISH IN COLOR AS SCHEDULED.

HALLWAY PANELS: CORRUGATED PANELS FABRICATED FROM MINIMUM 26 GAUGE HOT-DIP GALVANIZED STEEL, WITH PAINTED FINISH IN COLOR AS SCHEDULED. INSTALL VERTICALLY WITH MID-SPAN BRACING.

HALLWAY BASE: 18" HIGH x 0.080" THICK ALUMINUM DIAMOND PLATE BASE (ASTM B209 3003-H22) WITH RUBBER CAP AT ALL STORAGE CORRIDOR HALLWAY PANELS.

HALLWAY CORNERS: FABRICATED FROM MINIMUM 20 GAUGE HOT-DIP GALVANIZED STEEL, WITH PAINTED FINISH TO MATCH HALLWAY PANELS. PROVIDE 4"x4"x4' HIGH x 0.080" THICK ALUMINUM DIAMOND PLATE CORNER GUARDS (ASTM B209 3003-H22) WITH RUBBER CAP AT ALL STORAGE CORRIDOR OUTSIDE CORNERS.

LOBBY WAINSCOT: 48" HIGH x 0.080" THICK ALUMINUM DIAMOND PLATE WAINSCOT (ASTM B209 3003-H22) WITH RUBBER CAP AT ALL LOBBIES.

UNIT NUMBER PLAQUE: 4"x8" PLAQUE CONFORMING TO OWNER'S SIGNAGE STANDARDS. COORDINATE NUMBERING WITH OWNER.

UNIT PARTITION SYSTEM: CORRUGATED PANELS FABRICATED FROM MINIMUN 26 GAUGE GALVALUME STEEL SHEET. INSTALL VERTICALLY WITH MID-SPAN BRACING. PROVIDE RELATED HOT-DIP GALVANIZED FRAMING, CHANNELS, ANGLES, HARDWARE, AND FASTENERS. COVER ALL GYPSUM BOARD, FIREPROOFING, PIPES, WIRES, AND CONDUITS EXPOSED IN THE STORAGE UNITS WITH HEMMED 20 GAUGE GALVALUME STEEL COVERS TO THE HEIGHT OF THE PARTITION SYSTEM.

HORIZONTAL SECURITY MESH: 2"x2"x16 GAUGE GALVANIZED WELDED WIRE MESH INSTALLED OVER TOP OF ALL INTERIOR STORAGE UNITS. PROVIDE HOT-DIP GALVANIZED ANGLES AT 5' CENTERS AND AT TOP OF UNIT PARTITIONS TO SUPPORT MESH, AND FASTEN SECURELY IN PLACE.

10.07 PRE-ENGINEERED ALUMINUM CANOPY SYSTEMS

GENERAL: SEE STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS THAT APPLY TO THIS SECTION.

SUBMITTALS: SUMBIT SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER REGISTERED TO PRACTICE IN THE JURISDICTION WHERE THE PROJECT IS LOCATED, SHOWING COMPLIANCE WITH THE INDICATED STRUCTURAL REQUIREMENTS WITHOUT EXCEEDING ALLOWABLE WORKING STRESS OF MATERIALS, INCLUDING ANCHORS AND CONNECTIONS. MAXIMUM DEFLECTION OF L/180. ALLOW FOR THERMAL MOVEMENT FROM 120 DEG F AMBIENT TEMPERATURE RANGE, AND 180 DEG F MATERIAL SURFACE RANGE.

PROJECT CONDITIONS: FIELD VERIFY DIMENSIONS PRIOR TO SHOP FABRICATION.

MANUFACTURER: PROVIDE PRODUCTS MANUFACTURERD BY PEACHTREE PROTECTIVE COVERS, INC., OR APPROVED SUBSTITUTE.

MATERIALS:

INTERLOCKING DECKING, BEAMS AND GUTTERS: EXTRUDED ALUMINUM ALLOY 6063 TEMPER T6, COMPLYING WITH ASTM B221.

FLASHING: MINIMUM 0.040" ALUMINUM.

FASTENERS: STAINLESS STEEL WITH NEOPRENE WASHERS WHERE IN CONTACT WITH ALUMINUM. HOT-DIP GALVANIZED ANCHORS FOR ATTACHMENT TO MASONRY OR STEEL.

FABRICATION: FABRICATE TO INDICATED SIZES, DIMENSIONS AND DETAILS. ASSEMBLE WORK TRUE-TO-LINE, WITH TIGHT, CLOSE FITTING JOINTS. PROVIDE FULLY WELDED EXTRUDED ALUMINUM SYSTEM, WITH PROVISIONS FOR THERMAL EXPANSION. EASE EXPOSED EDGES AND GRIND ALL EXPOSED WELDS SMOOTH. PROVIDE COMPONENTS REQUIRED FOR PROPER ANCHORAGE. SHOP FINISH AS INDICATED.

FINISH: HIGH PERFORMANCE FLUOROPOLYMER COATING COMPLYING WITH AAMA 2604, TWO-COAT THERMOCURED SYSTEM OF INHIBITIVE PRIMER AND FLUOROPOLYMER TOPCOAT CONTAINING MINIMUM 70% PVDF RESIN, MINIMUM 1.2 MIL DRY FILM THICKNESS, COLOR AS SCHEDULED.

INSTALLATION: INSTALL WORK TRUE-TO-LINE AND PLUMB, WITH SLOPE FOR POSITIVE DRAINAGE. ANCHOR FABRICATIONS SECURELY IN PLACE WITH COMPATIBLE FASTENERS. PREVENT CONTACT BETWEEN ALUMINUM AND DISSIMILAR MATERIALS. PROVIDE FLASHING AT ADJACENT CONSTRUCTION. TEST DRAINAGE SYSTEM. TOUCH-UP FINISH IMMEDIATELY AFTER ERECTION.

14 CONVEYING SYSTEMS

HYDRAULIC ELEVATORS

GENERAL: COMPLY WITH ANSI/ASME 17.1 AND ISO 9001-2000.

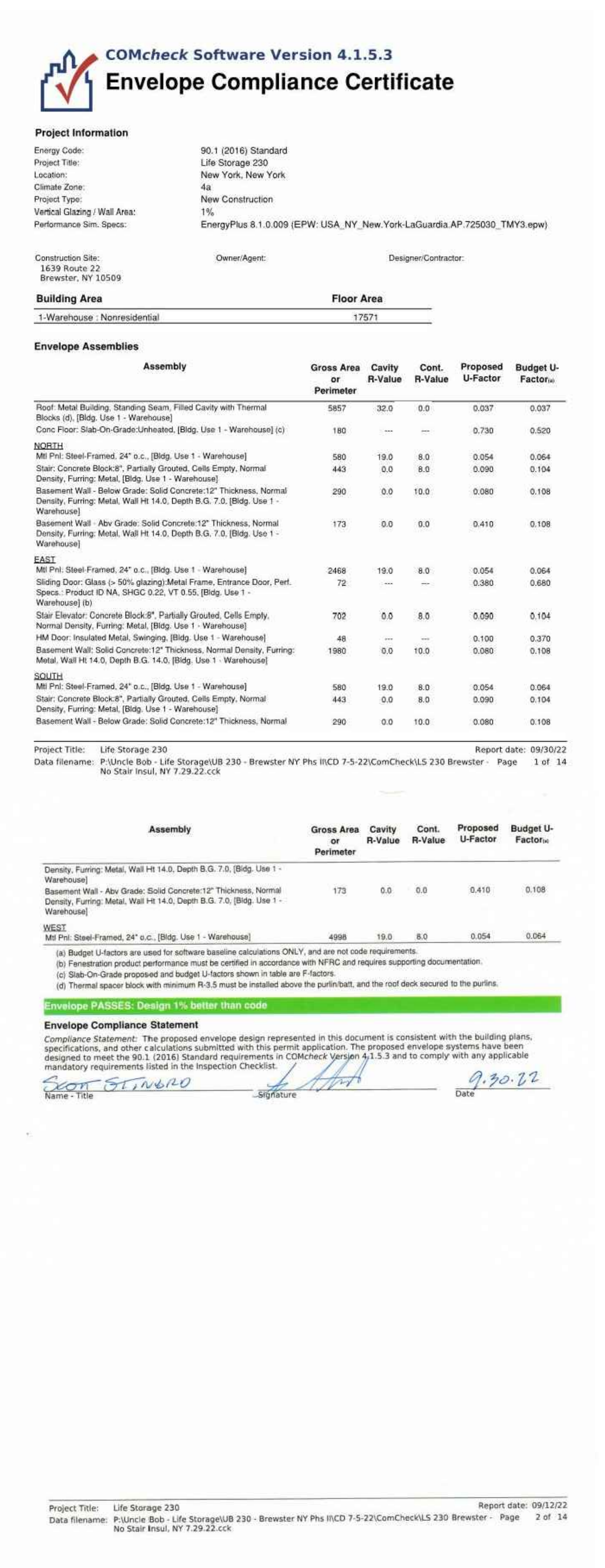
SUBMITTALS: SUBMIT MANUFACTURER'S SHOP DRAWINGS, OPERATION AND MAINTENANCE MANUALS, AND FINISH SAMPLES FOR REVIEW.

14.01 WARRANTY: PROVIDE MANUFCTURER'S STANDARD WARRANTY AND MAINTENANCE SERVICE INCLUDING 24 HOUR EMERGENCY CALLBACK FOR PERIOD OF ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION.

ELEVATOR: PROVIDE ELEVATORS SCHEDULED AS BASIS OF DESIGN, OR APPROVED SUBSTITUTE. PROVIDE MANUFACTURER'S STANDARD ELEVATOR COMPONENTS AND FEATURES, UNLESS OTHERWISE INDICATED.

INSTALLATION: INSTALL ELEVATORS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND ANSI/ASME 17.1. ADJUST ELEVTORS FOR PROPER OPERATION, SMOOTH ACCELERATION AND DECELERATION, AND AUTOMATIC LEVELING AT EACH FLOOR TO WITHIN 1/4" OF LANDING.

COMCHECK



COMcheck Software Version 4.1.5.3

Envelope Compliance Certificate

Project Information

Energy Code: 90.1 (2016) Standard
Project Title: Life Storage 230
Location: New York, New York
Climate Zone: 4a
Project Type: New Construction
Vertical Glazing / Wall Area: 1%
Performance Sim. Specs: EnergyPlus 8.1.0.009 (EPW: USA_NY_New.York-LaGuardia.AP.725030_TMY3.epw)

Construction Site:
1639 Route 22
Brewster, NY 10509

Owner/Agent:

Designer/Contractor:

Building Area	Floor Area
1-Warehouse : Nonresidential	17571

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Roof: Metal Building, Standing Seam, Filled Cavity with Thermal Blocks (d), [Bldg. Use 1 - Warehouse]	5857	32.0	0.0	0.037	0.037
Conc Floor: Slab-On-Grade:Unheated, [Bldg. Use 1 - Warehouse] (c)	180	---	---	0.730	0.520
NORTH					
Mtl Pnl: Steel-Framed, 24" o.c., [Bldg. Use 1 - Warehouse]	580	19.0	8.0	0.054	0.064
Stair: Concrete Block:8", Partially Grouted, Cells Empty, Normal Density, Furring: Metal, [Bldg. Use 1 - Warehouse]	443	0.0	8.0	0.090	0.104
Basement Wall - Below Grade: Solid Concrete:12" Thickness, Normal Density, Furring: Metal, Wall Ht 14.0, Depth B.G. 7.0, [Bldg. Use 1 - Warehouse]	290	0.0	10.0	0.080	0.108
Basement Wall - Abv Grade: Solid Concrete:12" Thickness, Normal Density, Furring: Metal, Wall Ht 14.0, Depth B.G. 7.0, [Bldg. Use 1 - Warehouse]	173	0.0	0.0	0.410	0.108
EAST					
Mtl Pnl: Steel-Framed, 24" o.c., [Bldg. Use 1 - Warehouse]	2468	19.0	8.0	0.054	0.064
Sliding Door: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf. Specs.: Product ID NA, SHGC 0.22, VT 0.55, [Bldg. Use 1 - Warehouse] (b)	72	---	---	0.380	0.680
Stair Elevator: Concrete Block:8", Partially Grouted, Cells Empty, Normal Density, Furring: Metal, [Bldg. Use 1 - Warehouse]	702	0.0	8.0	0.090	0.104
HM Door: Insulated Metal, Swinging, [Bldg. Use 1 - Warehouse]	48	---	---	0.100	0.370
Basement Wall: Solid Concrete:12" Thickness, Normal Density, Furring: Metal, Wall Ht 14.0, Depth B.G. 14.0, [Bldg. Use 1 - Warehouse]	1980	0.0	10.0	0.080	0.108
SOUTH					
Mtl Pnl: Steel-Framed, 24" o.c., [Bldg. Use 1 - Warehouse]	580	19.0	8.0	0.054	0.064
Stair: Concrete Block:8", Partially Grouted, Cells Empty, Normal Density, Furring: Metal, [Bldg. Use 1 - Warehouse]	443	0.0	8.0	0.090	0.104
Basement Wall - Below Grade: Solid Concrete:12" Thickness, Normal Density, Furring: Metal, Wall Ht 14.0, Depth B.G. 7.0, [Bldg. Use 1 - Warehouse]	290	0.0	10.0	0.080	0.108
Basement Wall - Abv Grade: Solid Concrete:12" Thickness, Normal Density, Furring: Metal, Wall Ht 14.0, Depth B.G. 7.0, [Bldg. Use 1 - Warehouse]	173	0.0	0.0	0.410	0.108
WEST					
Mtl Pnl: Steel-Framed, 24" o.c., [Bldg. Use 1 - Warehouse]	4998	19.0	8.0	0.054	0.064

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.
(d) Thermal spacer block with minimum R-3.5 must be installed above the purlin/batt, and the roof deck secured to the purlins.

Envelope PASSES: Design 1% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 90.1 (2016) Standard requirements in COM*check* Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

SCOTT STINARD
Name - Title

Signature

9.30.22
Date

Project Title: Life Storage 230 Report date: 09/30/22
Data filename: P:\Uncle Bob - Life Storage\UB 230 - Brewster NY Phs II\CD 7-5-22\ComCheck\LS 230 Brewster - No Stair Insul, NY 7.29.22.cck Page 1 of 14

Project Title: Life Storage 230 Report date: 09/12/22
Data filename: P:\Uncle Bob - Life Storage\UB 230 - Brewster NY Phs II\CD 7-5-22\ComCheck\LS 230 Brewster - No Stair Insul, NY 7.29.22.cck Page 2 of 14

SCOTT D. STINARD

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Life Storage #230
Self Storage Phase II

1639 Route 22
Brewster, NY 10509

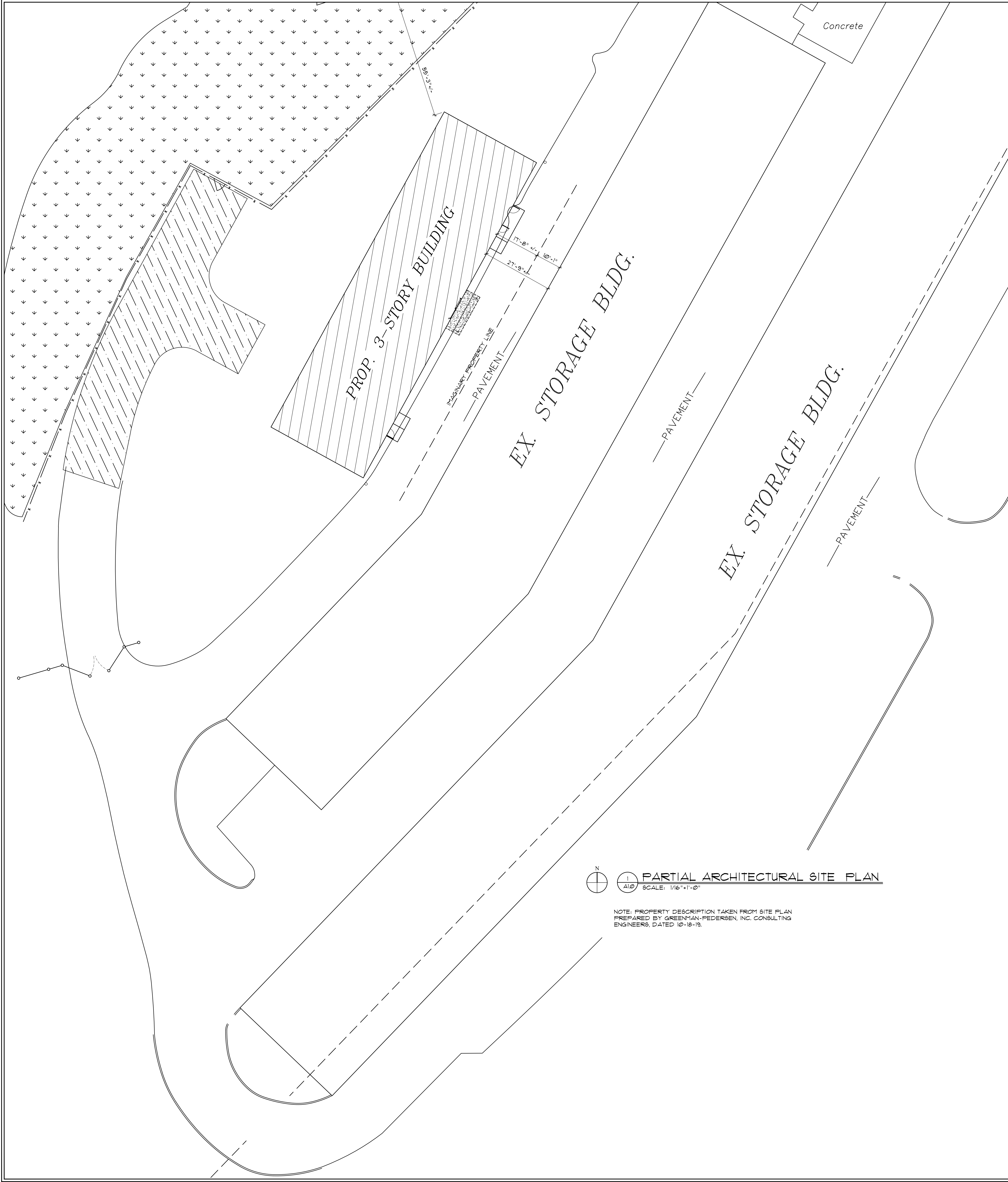
STINARD
ARCHITECTURE
INC

CARTERSVILLE GA 30120
217 S. ERWIN STREET
770.425.7400 (F) 770.425.7400
STINARDARCH.COM

ISSUE: FOR CONSTRUCTION
REVISIONS:

PROJECT NUMBER 201941
DATE 9-28-22

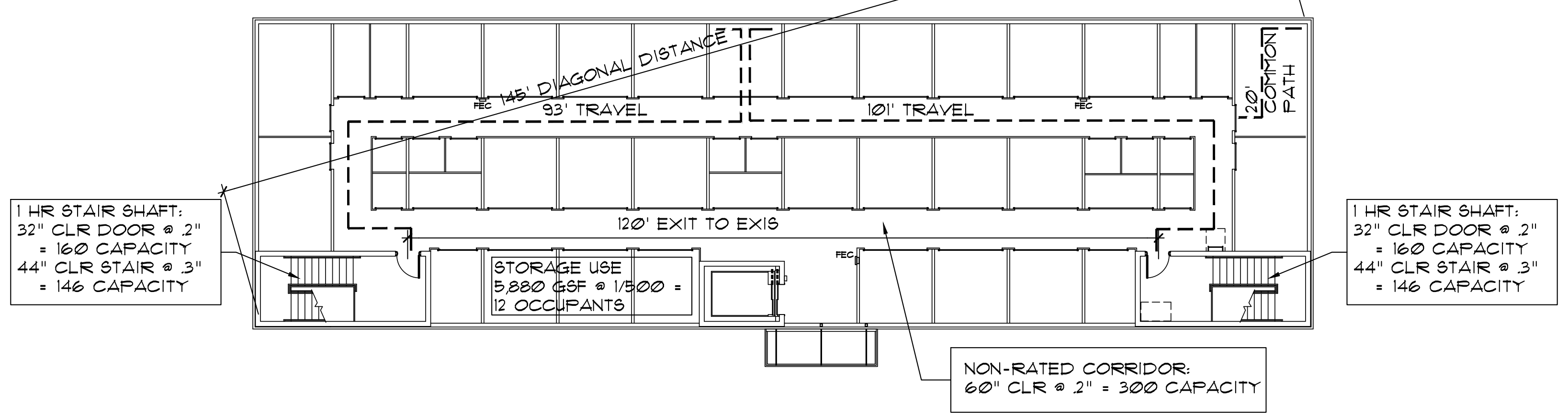
SHEET NUMBER
A0.4



1 / A1.0 PARTIAL ARCHITECTURAL SITE PLAN

SCALE: 1/16"=1'-0"

NOTE: PROPERTY DESCRIPTION TAKEN FROM SITE PLAN PREPARED BY GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS, DATED 10-18-19.



1 HR STAIR SHAFT:
32" CLR DOOR @ .2"
= 160 CAPACITY
44" CLR STAIR @ .3"
= 146 CAPACITY

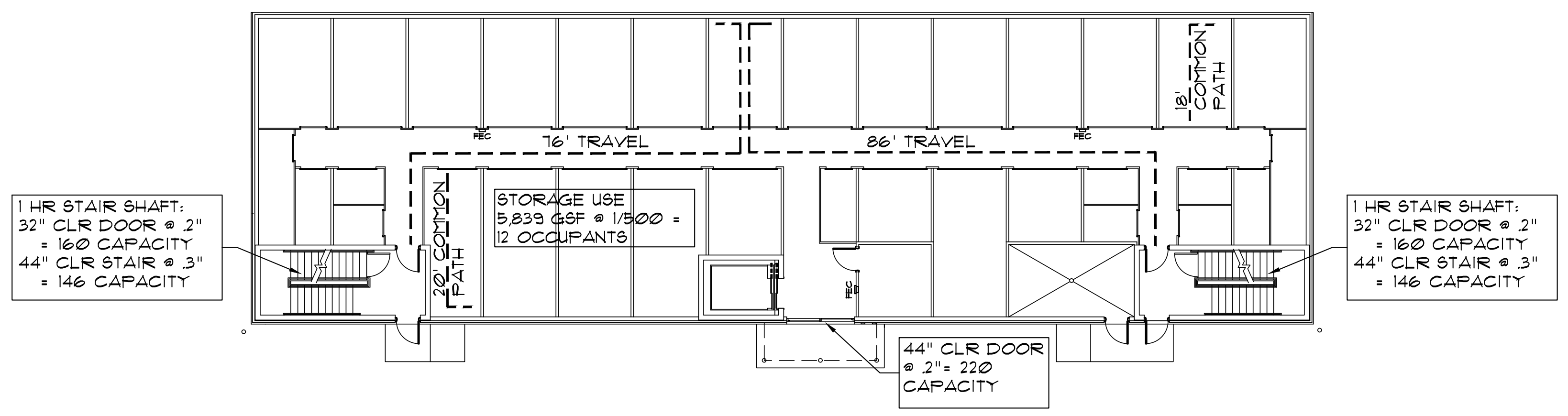
STORAGE USE
5,880 GSF @ 1/500 =
12 OCCUPANTS

NON-RATED CORRIDOR:
60" CLR @ .2" = 300 CAPACITY

1 HR STAIR SHAFT:
32" CLR DOOR @ .2"
= 160 CAPACITY
44" CLR STAIR @ .3"
= 146 CAPACITY

2 / A1.0 LOWER LEVEL LIFE SAFETY PLAN

SCALE: 1/16"=1'-0"



1 HR STAIR SHAFT:
32" CLR DOOR @ .2"
= 160 CAPACITY
44" CLR STAIR @ .3"
= 146 CAPACITY

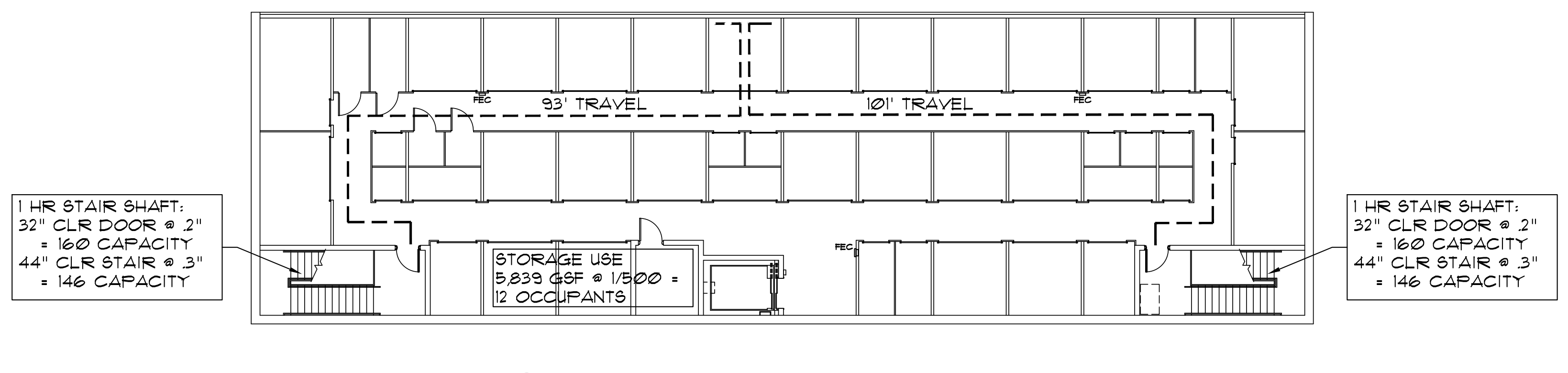
STORAGE USE
5,839 GSF @ 1/500 =
12 OCCUPANTS

44" CLR DOOR
@ .2"= 220
CAPACITY

1 HR STAIR SHAFT:
32" CLR DOOR @ .2"
= 160 CAPACITY
44" CLR STAIR @ .3"
= 146 CAPACITY

3 / A1.0 FIRST FLOOR LIFE SAFETY PLAN

SCALE: 1/16"=1'-0"



1 HR STAIR SHAFT:
32" CLR DOOR @ .2"
= 160 CAPACITY
44" CLR STAIR @ .3"
= 146 CAPACITY

STORAGE USE
5,839 GSF @ 1/500 =
12 OCCUPANTS

1 HR STAIR SHAFT:
32" CLR DOOR @ .2"
= 160 CAPACITY
44" CLR STAIR @ .3"
= 146 CAPACITY

4 / A1.0 SECOND FLOOR LIFE SAFETY PLAN

SCALE: 1/16"=1'-0"

SCOTT D. STINARD

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Life Storage #230
Self Storage Phase II

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ISSUE: FOR CONSTRUCTION
REVISIONS:

PROJECT NUMBER
201941

DATE
9-28-22

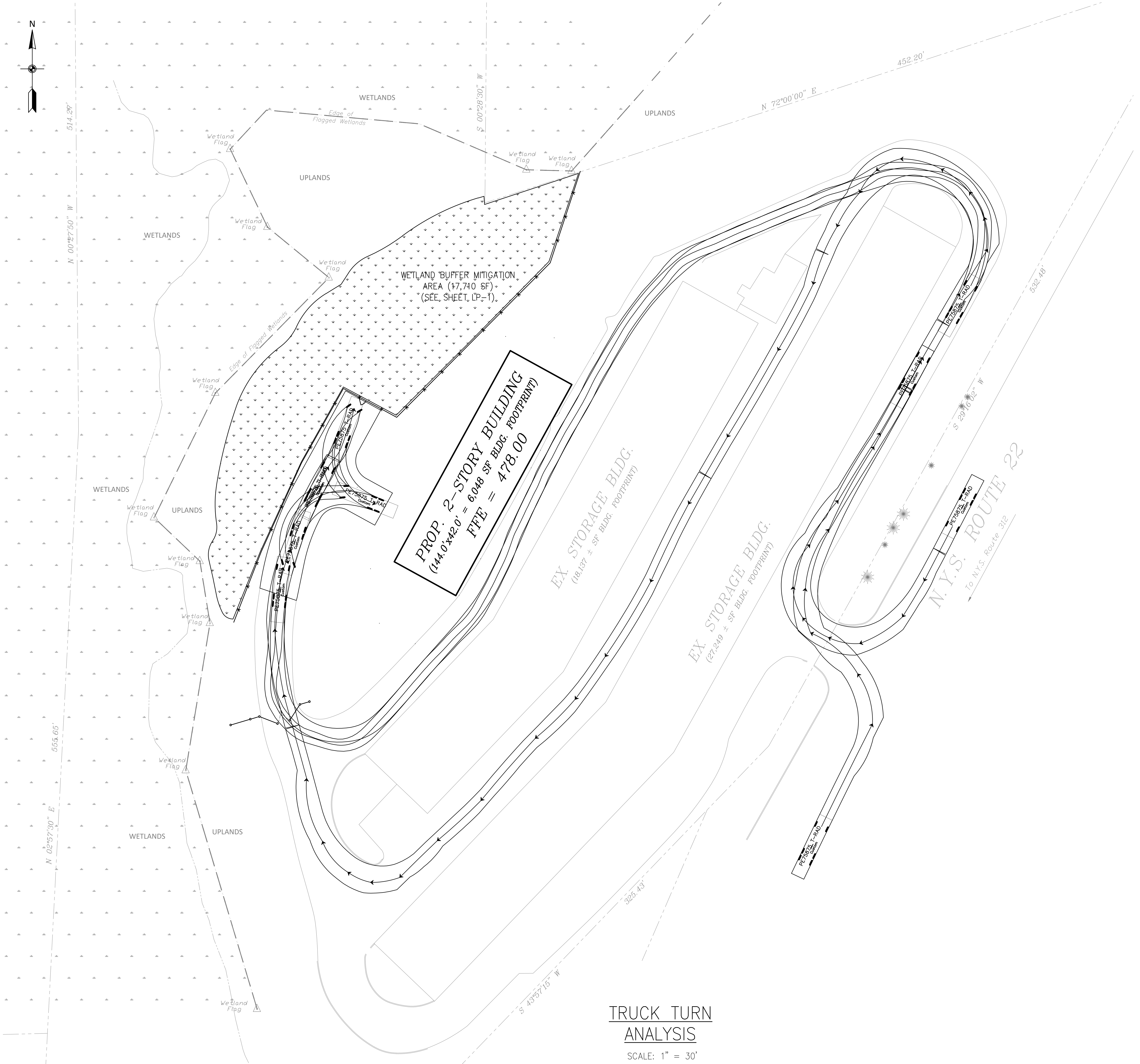
SHEET NUMBER

A1.0

NOTES:

1. TURNING MOVEMENTS SHOWN FROM TRANSOFT AUTOTURN
2. TRUCK DIMENSIONS AND SPECIFICATIONS PROVIDED BY KEN CLAIR, COMMISSIONER OF EMERGENCY SERVICES FOR PUTNAM COUNTY (SEE BELOW)

FWD Seagrave	FWD SEAGRAVE HOLDINGS, LP / 105 EAST 12TH STREET CLINTONVILLE, WI 54929 BREWSTER SOUTHEAST JOINT FIRE DISTRICT BREWSTER, NEW YORK	
PREPARED BY: DWL	DATE: 12-03-2018	MODEL: TR05CO
CAB: MARAUDER II.2 141	FRONT AXLE: MFS / 22.8K / DISC	
ENGINE: CUMMINS ISX12 500HP	REAR AXLE: RT-46-160 / 48K / S-CAM	
PUMP: N/A	FRONT TIRES: MI / 425 / 65R22.5 / XFE	
BODY: 3CR12 S/S / FORCE (248.50")	REAR TIRES: MI / 12R22.5 / X WORKS Z	
TANK: N/A	AERIAL: 100' / #500 FORCE	



TRUCK TURN ANALYSIS

SCALE: 1" = 30'

0 30' 60'
SCALE IN FEET

NOTE:
CONTRACTOR SHALL MAINTAIN ACCESS FOR PATRONS, EMPLOYEES AND EMERGENCY SERVICE VEHICLES TO THE EXISTING STORAGE BUILDINGS. PROVIDE TEMPORARY FENCING AS NEEDED DURING CONSTRUCTION TO MAINTAIN A SECURED SITE.

Dig Safely. New York
Call 811 before you dig

Greenman-Pedersen, Inc.
Engineering and Construction Services
In Western New York:
BUFFALO (716) 633-4844 • ROCHESTER (585) 486-4859 • JAMESTOWN (716) 488-2803

GPI

STATE OF NEW YORK
GREENMAN PEDERSEN, INC.
LICENSED PROFESSIONAL ENGINEER
No. 131

SCALE:	AS NOTED	DRAWN BY:	C.Y.
DATE:	OCTOBER 18, 2019	CHECKED BY:	T.W.
DWG NO.:	TT-1	JOB NO.:	BUF-2015049.041

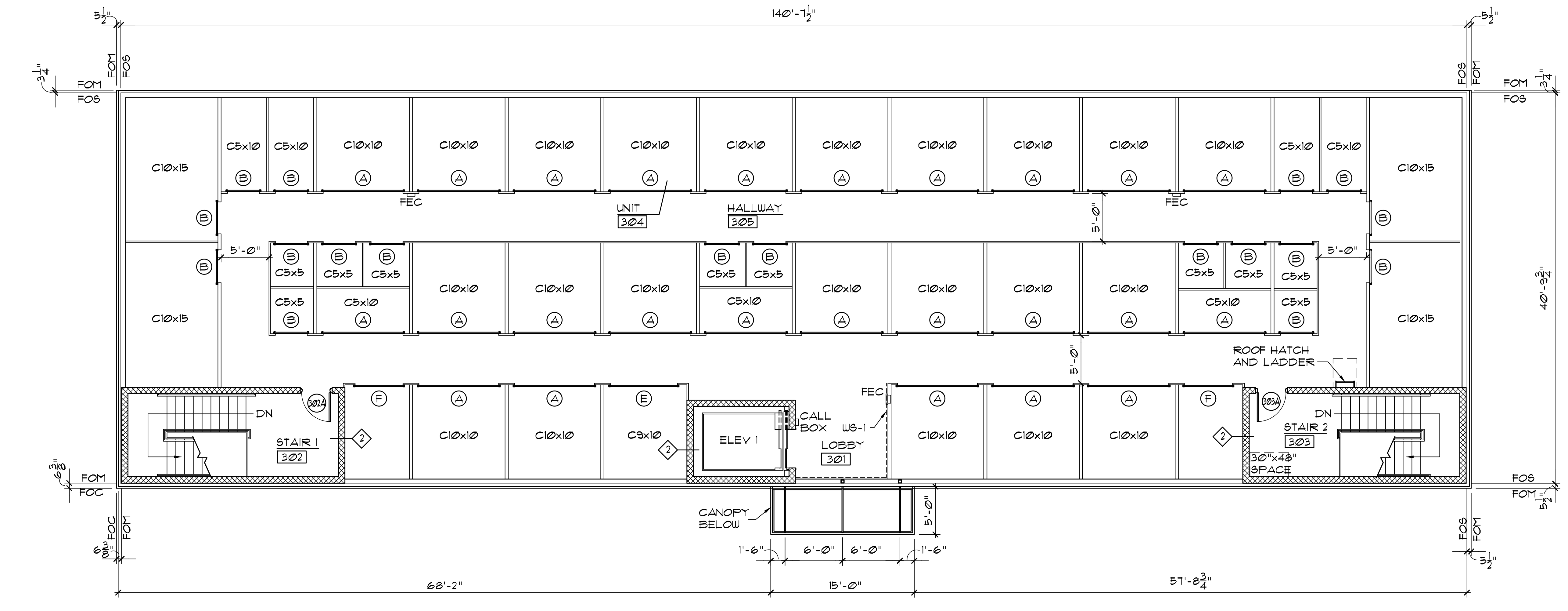
NO.	REVISIONS:	BY	DATE

TT-1_TRUCK TURN ANALYSIS

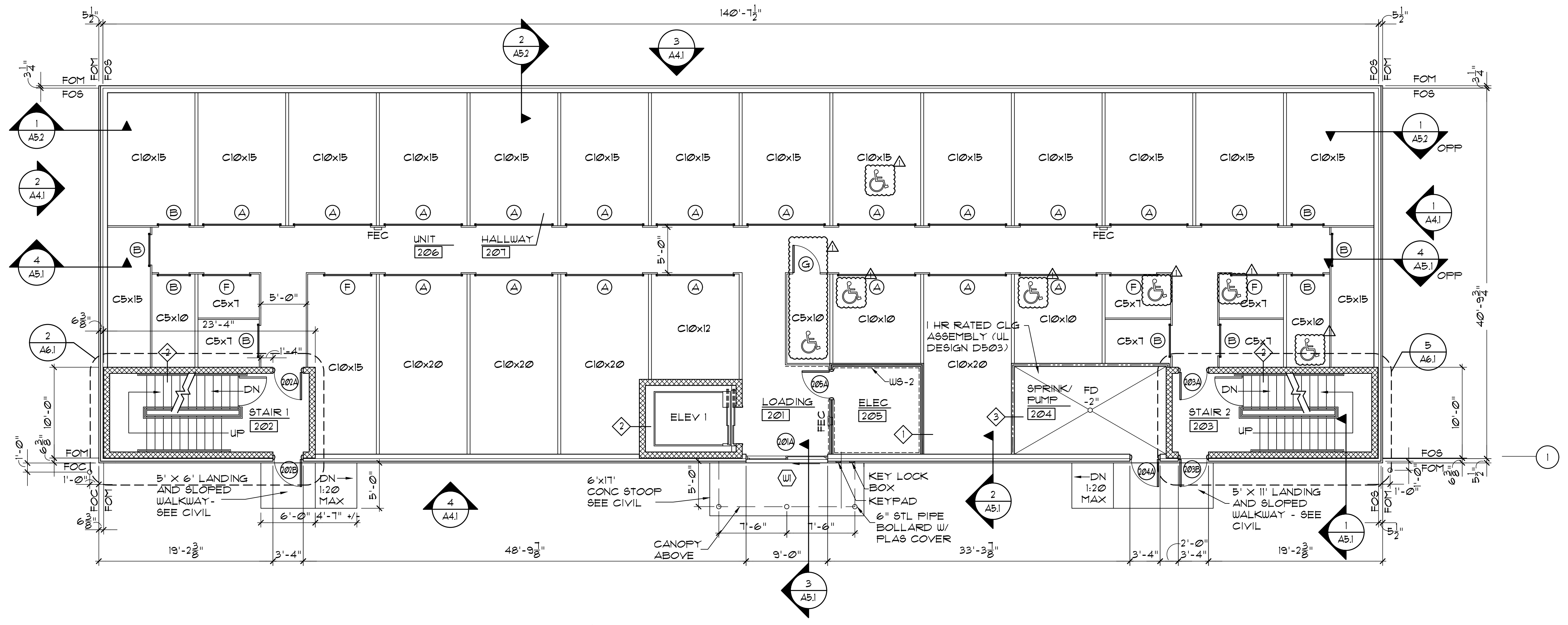
LIFE STORAGE, INC.
(SITE #230 BREWSTER)
TOWN OF SOUTHEAST - PUTNAM COUNTY, NY

SHEET NO.
14

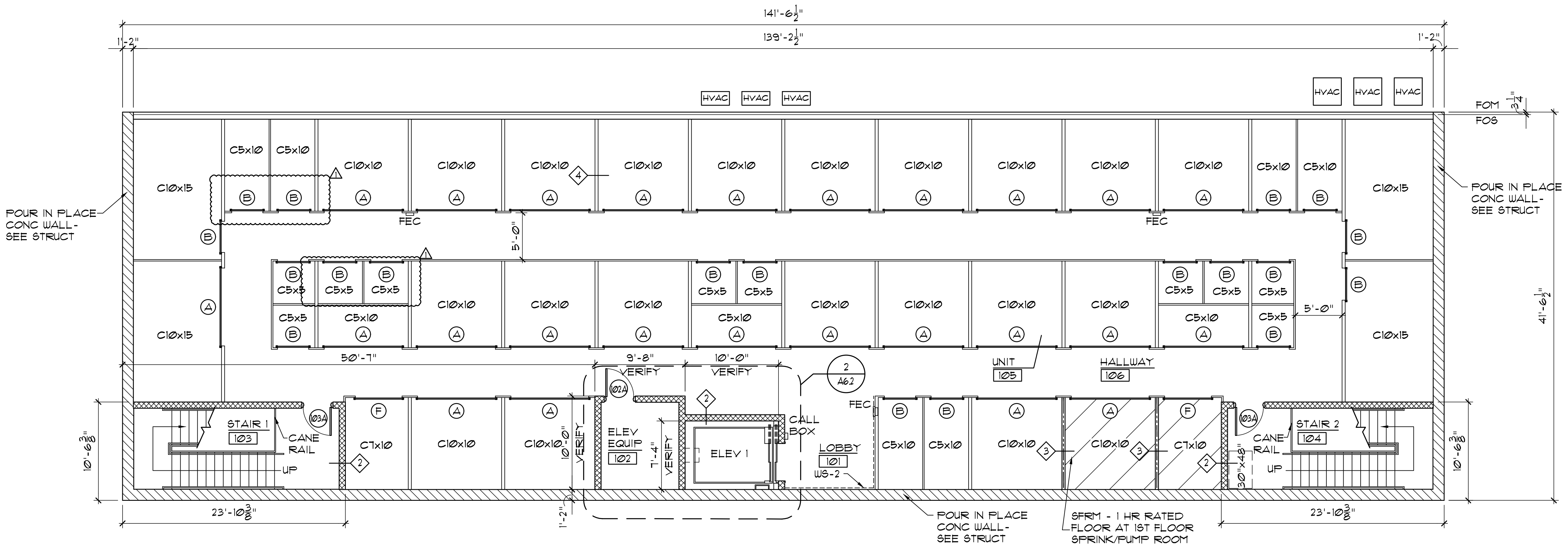
WARNING: ALTERATIONS TO THIS DOCUMENT NOT CONFORMING TO SECTION 7209, SUBDIVISION 2, STATE EDUCATION LAW, ARE PROHIBITED



3 A1.1 SECOND FLOOR PLAN
SCALE: 1/8"=1'-0"



2 A1.1 FIRST FLOOR PLAN
SCALE: 1/8"=1'-0"



1 A1.1 LOWER LEVEL PLAN
SCALE: 1/8"=1'-0"

SCOTT D. STINARD
032362-1

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Life Storage #230
Self Storage Phase II

1639 Route 22
Brewster, NY 10509

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ARCHITECTURE
INC

CARTERSVILLE GA 30120
217 S. ERWIN STREET
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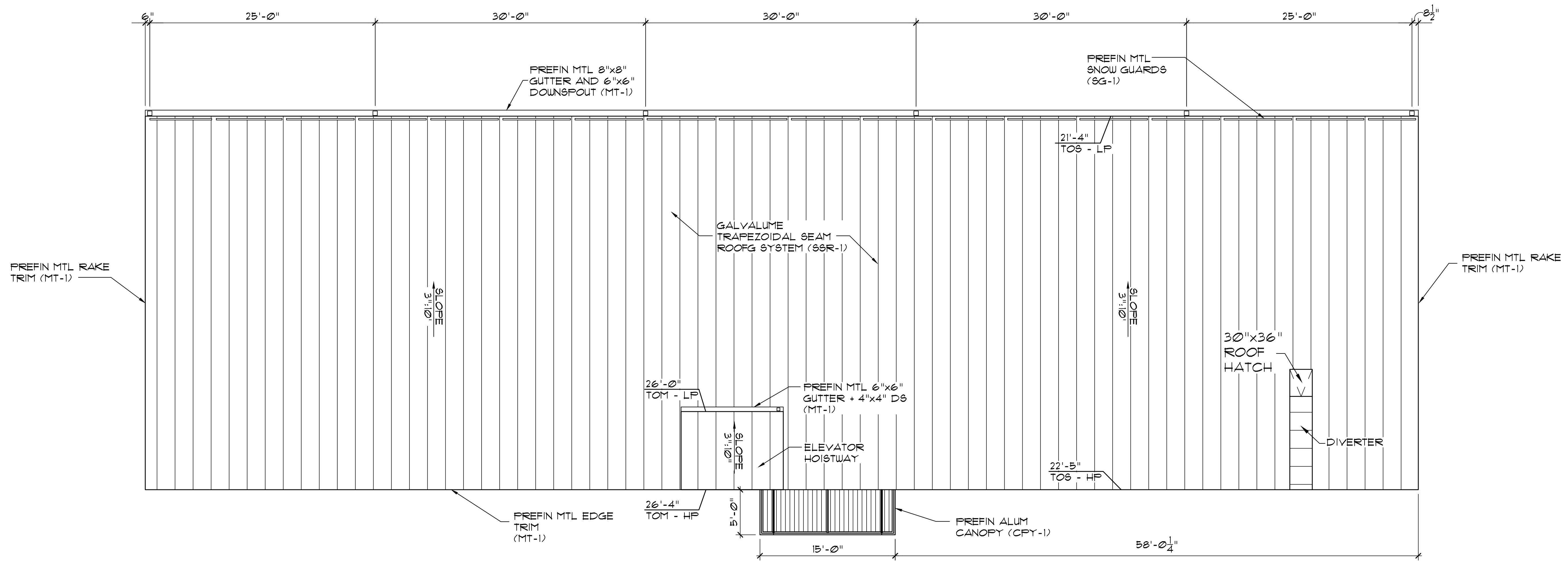
STINARDARCH.COM

ISSUE: FOR CONSTRUCTION
REVISIONS:
1 4-20-23 CITY COMMENTS

PROJECT NUMBER 201941
DATE 9-28-22

SHEET NUMBER
A1.1


6"
25'-0"
30'-0"
30'-0"
30'-0"
25'-0"
8 1/2"
PREFIN MTL 8"x8" GUTTER AND 6"x6" DOWNSPOUT (MT-1)
PREFIN MTL SNOW GUARDS (SG-1)
21'-4" TOS - LP
GALVALUME TRAPEZOIDAL SEAM ROOFG SYSTEM (SSR-1)
PREFIN MTL RAKE TRIM (MT-1)
PREFIN MTL RAKE TRIM (MT-1)
SLOPE 3":10'
SLOPE 3":10'
30"x36" ROOF HATCH
26'-0" TOM - LP
PREFIN MTL 6"x6" GUTTER + 4"x4" DS (MT-1)
SLOPE 3":10'
ELEVATOR HOISTWAY
DIVERTER
22'-5" TOS - HP
26'-4" TOM - HP
5'-0"
PREFIN MTL EDGE TRIM (MT-1)
PREFIN ALUM CANOPY (CPY-1)
15'-0"
58'-0 1/4"

N

1
A1.2
ROOF PLAN
SCALE: 1/8"=1'-0"

NOTES:

1. DESIGN ROOF STRUCTURE TO ACCOMMODATE FUTURE SOLAR PANELS, WITH A DEAD LOAD OF 5 POUNDS PER SQUARE FOOT

Life Storage #230 Brewster, NY
Gutter and Downspout Sizing

Bulding Parameters	**42' Length**		
Bldg Depth at Gutter (ft)	42		
Gutter Length (ft)	30		
Gutter Width (in)	8		
Gutter Depth (in)	8		
DS Width (in)	6		
DS Depth (in)	6		
2015 IBC Plumbing Code 1106			
100 Year Hourly Rainfall Rate (in per hr) F1106.1	3		
CF per Hr per DS or Gutter Length	315		
GPH per DS or Gutter Length	2357		
GPM per DS or Gutter Length	40		
Downspouts:			
Max GPM Capacity (T 1106.2)	538	**OK**	
Gutters:			
Max GPM Capacity @ 1/16" per ft (T 1106.2)	505	**OK**	
1993 SMACNA			
Slope Factor	1.00		
		10 Yr	**100 Yr**
5 Minute Intensity (in per hr for 5 min)		6.7	9.2
Roof Area per DS Area (sf per si)		180.0	130.0
Downspouts:			
DS Area (sq in)	36		
Max Roof Area per DS		6480	4680
Actual Factored Roof Area per DS	1260		
Check		**OK**	**OK**
Rectangular Gutters (NIST Formula):			
Gutter Depth-to-Width "M"	1.0000		
M^-4/7	1.0000		
L^3/28	1.4397		
IA^5/14		25.2524	28.28037
Min Gutter Width "W" (in)		4.6244	5.1789
Check		**OK**	**OK**
Min Gutter Depth (in)		4.6244	5.1789
Check		**OK**	**OK**

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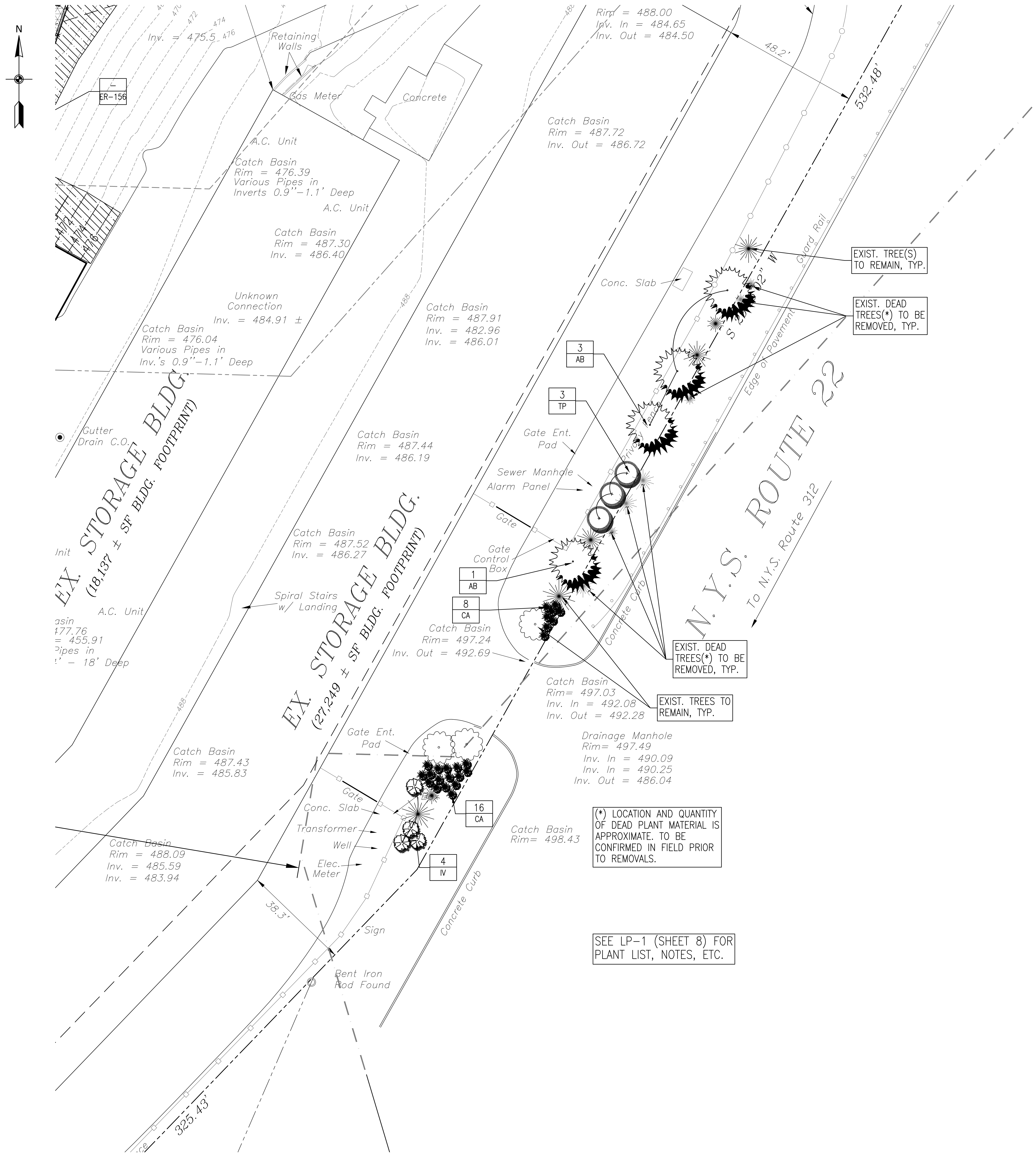
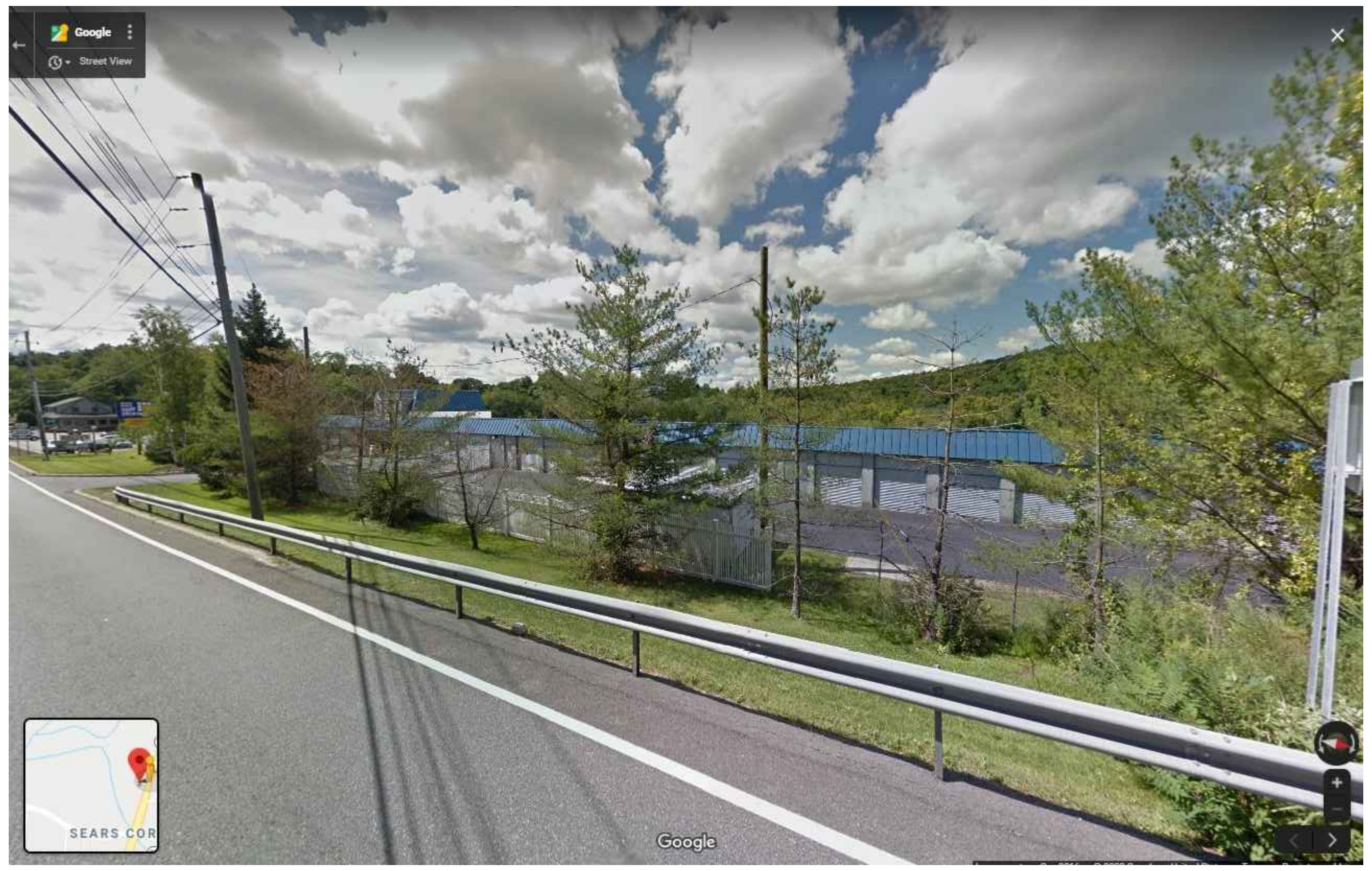


(*) LOCATION AND QUANTITY OF DEAD PLANT MATERIAL IS APPROXIMATE. TO BE CONFIRMED IN FIELD PRIOR TO REMOVALS.

SEE LP-1 (SHEET 8) FOR PLANT LIST, NOTES, ETC.

LANDSCAPE PLAN– SITE ENTRY

0 20' 40'
SCALE IN FEET



EXISTING CONDITIONS– NORTH OF SITE ENTRY

(IMAGE FROM GOOGLE STREET VIEW)

NOTE:
CONTRACTOR SHALL MAINTAIN ACCESS FOR PATRONS, EMPLOYEES AND EMERGENCY SERVICE VEHICLES TO THE EXISTING STORAGE BUILDINGS. PROVIDE TEMPORARY FENCING AS NEEDED DURING CONSTRUCTION TO MAINTAIN A SECURED SITE.

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GPI

No. 131

SCALE:	AS NOTED	DRAWN BY:	J.R.
DATE:	JANUARY 3, 2020	CHECKED BY:	T.W.
DWG NO.:	LP-2	JOB NO.:	BUF-2015049.041

NO.	REVISIONS:	BY	DATE

LP-2_SUPPLEMENTAL LANDSCAPE PLAN

LIFE STORAGE, INC.
(SITE #230 BREWSTER)
TOWN OF SOUTHEAST - PUTNAM COUNTY, NY

SHEET NO.
15

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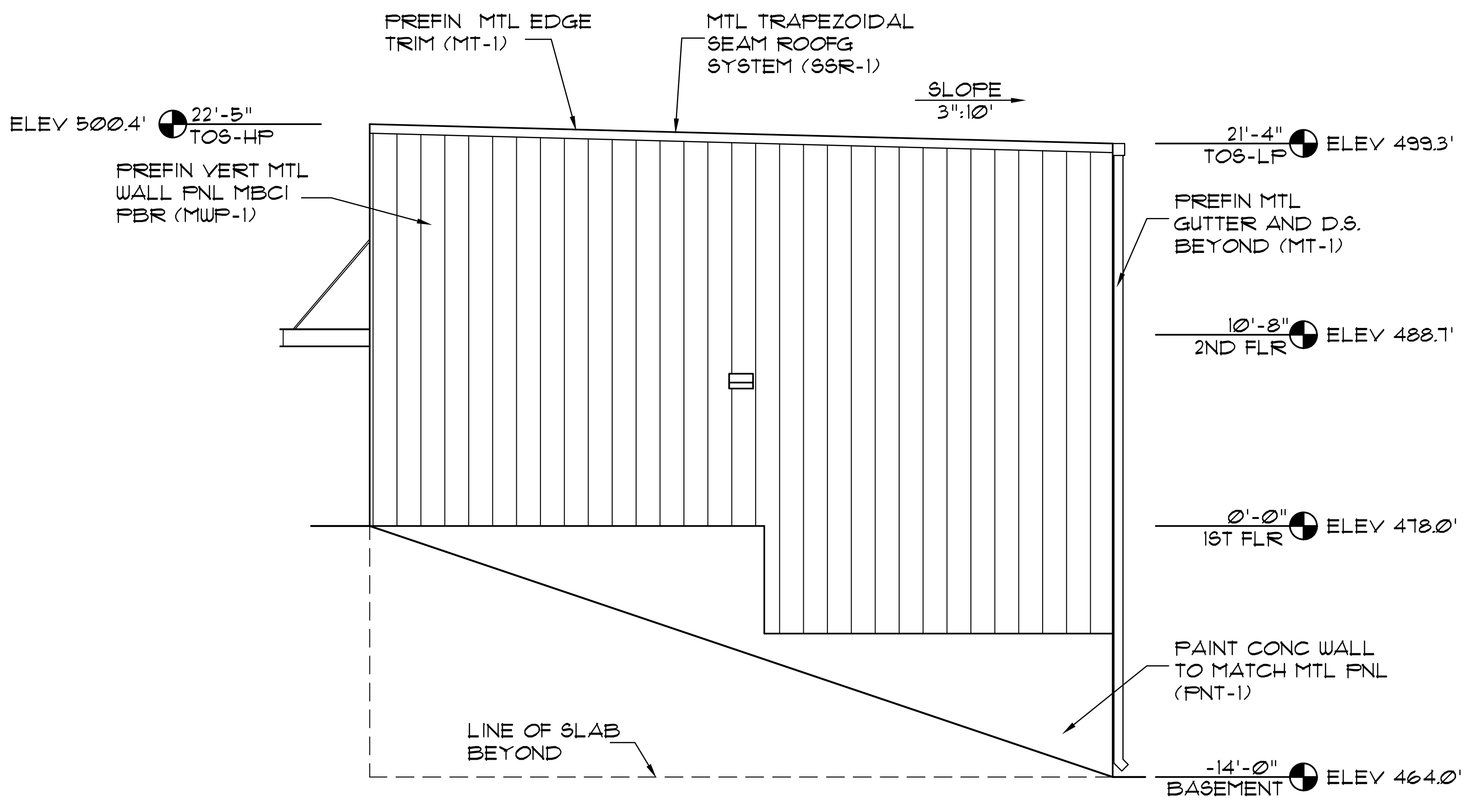
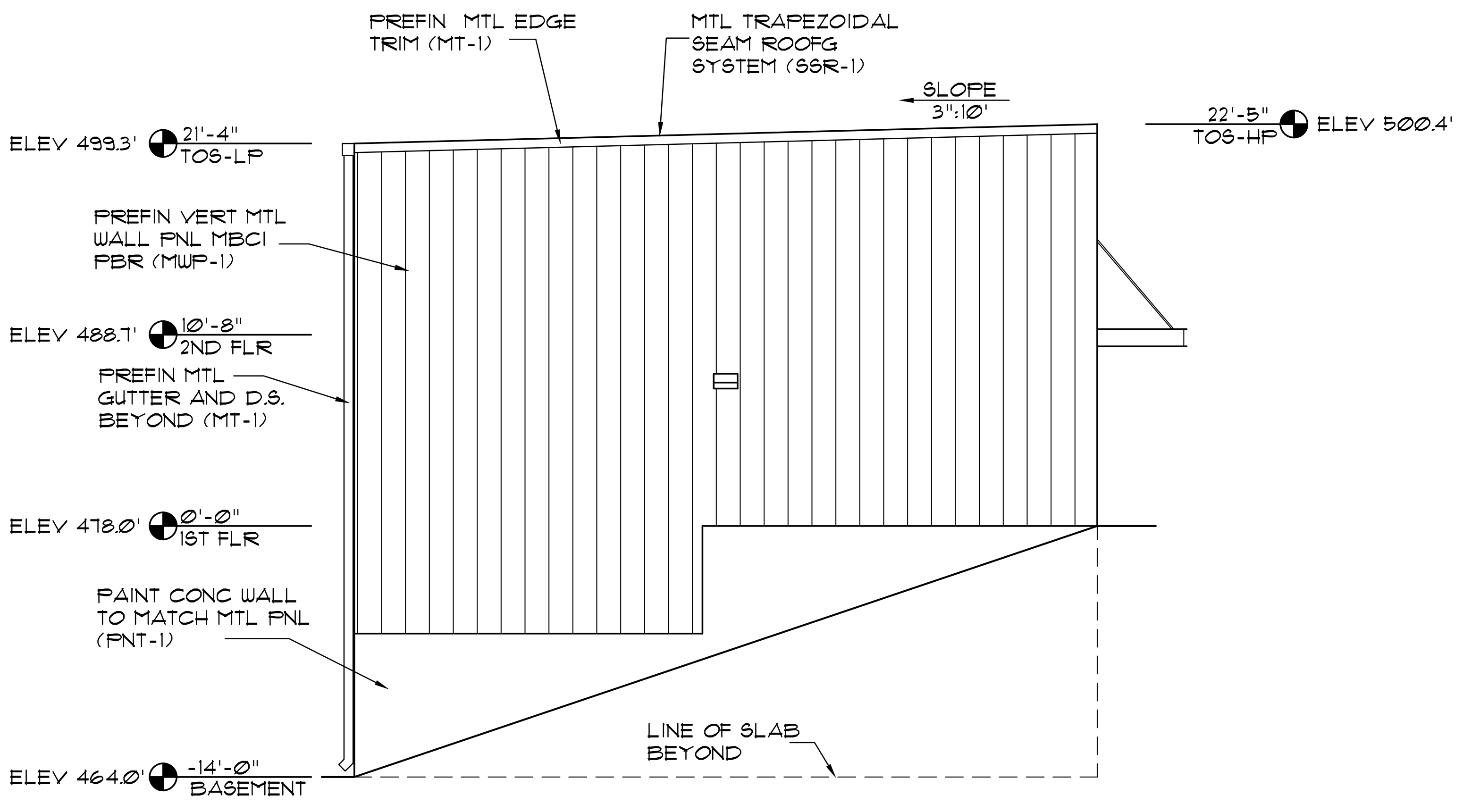
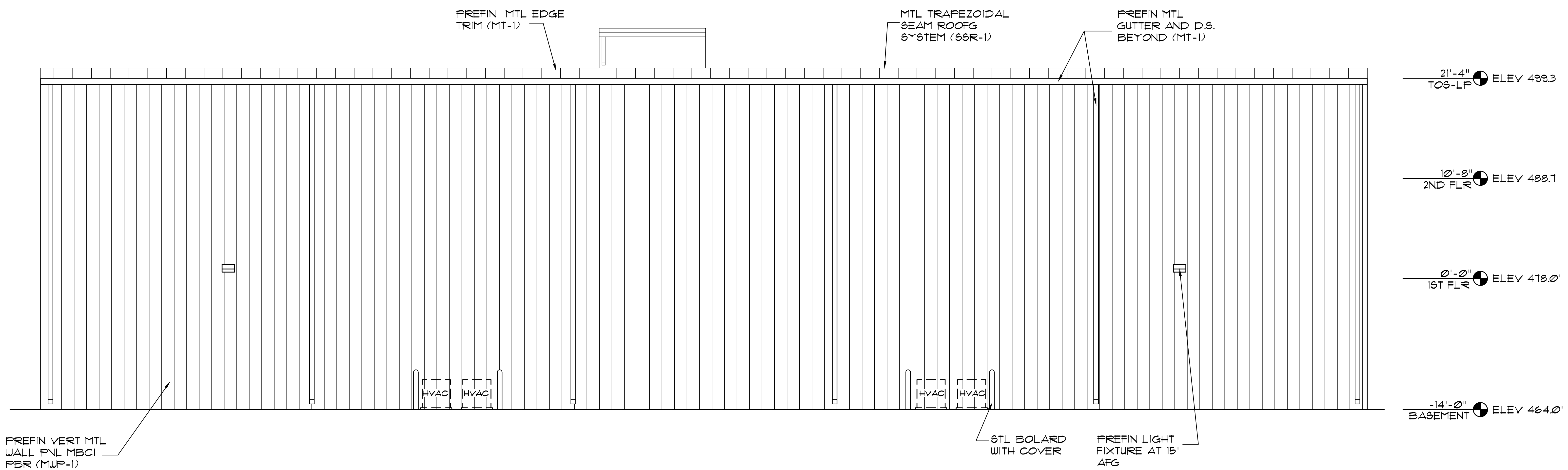

PREFIN MTL EDGE TRIM (MT-1)
MTL TRAPEZOIDAL SEAM ROOFG SYSTEM (SSR-1)
SLOPE 3":10'
ELEV 500.4' 22'-5" TOS-HP
PREFIN VERT MTL WALL PNL MBCI PBR (MWP-1)
21'-4" TOS-LP ELEV 499.3'
PREFIN MTL GUTTER AND D.S. BEYOND (MT-1)
10'-8" 2ND FLR ELEV 488.7'
0'-0" 1ST FLR ELEV 478.0'
PAINT CONC WALL TO MATCH MTL PNL (PNT-1)
LINE OF SLAB BEYOND
-14'-0" BASEMENT ELEV 464.0'

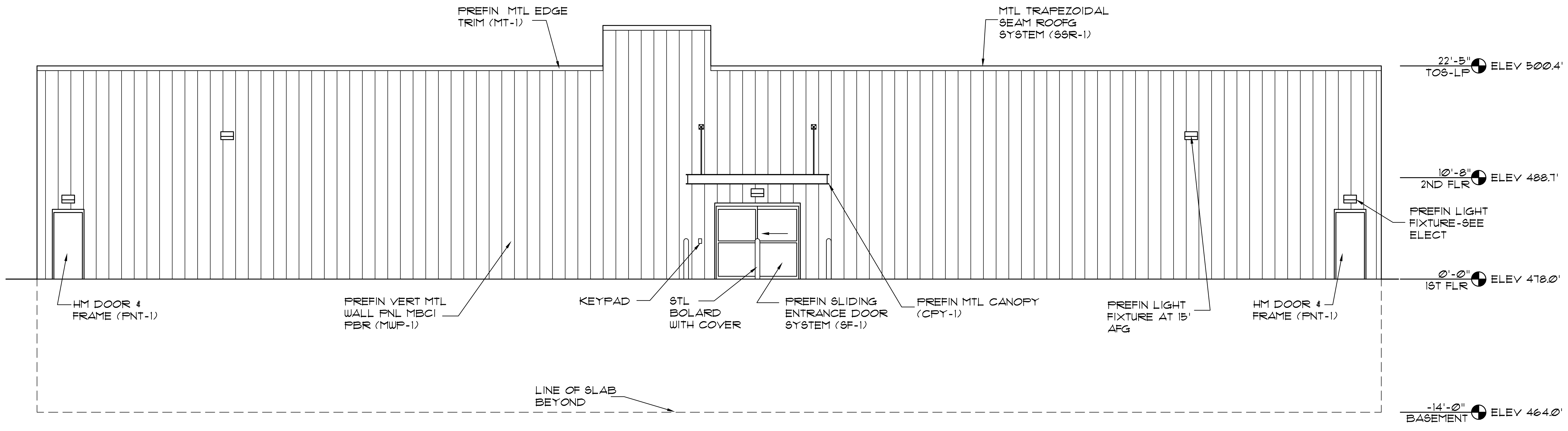
1
A4.1
NORTH ELEVATION
SCALE: 1/8"=1'-0"


PREFIN MTL EDGE TRIM (MT-1)
MTL TRAPEZOIDAL SEAM ROOFG SYSTEM (SSR-1)
SLOPE 3":10'
ELEV 499.3' 21'-4" TOS-LP
22'-5" TOS-HP ELEV 500.4'
PREFIN VERT MTL WALL PNL MBCI PBR (MWP-1)
ELEV 488.7' 10'-8" 2ND FLR
PREFIN MTL GUTTER AND D.S. BEYOND (MT-1)
ELEV 478.0' 0'-0" 1ST FLR
PAINT CONC WALL TO MATCH MTL PNL (PNT-1)
LINE OF SLAB BEYOND
ELEV 464.0' -14'-0" BASEMENT

2
A4.1
SOUTH ELEVATION
SCALE: 1/8"=1'-0"


PREFIN MTL EDGE TRIM (MT-1)
MTL TRAPEZOIDAL SEAM ROOFG SYSTEM (SSR-1)
PREFIN MTL GUTTER AND D.S. BEYOND (MT-1)
21'-4" TOS-LP ELEV 499.3'
10'-8" 2ND FLR ELEV 488.7'
0'-0" 1ST FLR ELEV 478.0'
HVAC
HVAC
HVAC
HVAC
-14'-0" BASEMENT ELEV 464.0'
PREFIN VERT MTL WALL PNL MBCI PBR (MWP-1)
STL BOLARD WITH COVER
PREFIN LIGHT FIXTURE AT 15' AFG

3
A4.1
WEST ELEVATION
SCALE: 1/8"=1'-0"


PREFIN MTL EDGE TRIM (MT-1)
MTL TRAPEZOIDAL SEAM ROOFG SYSTEM (SSR-1)
22'-5" TOS-LP ELEV 500.4'
10'-8" 2ND FLR ELEV 488.7'
PREFIN LIGHT FIXTURE-SEE ELECT
0'-0" 1ST FLR ELEV 478.0'
HM DOOR & FRAME (PNT-1)
PREFIN VERT MTL WALL PNL MBCI PBR (MWP-1)
KEYPAD
STL BOLARD WITH COVER
PREFIN SLIDING ENTRANCE DOOR SYSTEM (SF-1)
PREFIN MTL CANOPY (CPY-1)
PREFIN LIGHT FIXTURE AT 15' AFG
HM DOOR & FRAME (PNT-1)
LINE OF SLAB BEYOND
-14'-0" BASEMENT ELEV 464.0'

4
A4.1
EAST ELEVATION
SCALE: 1/8"=1'-0"

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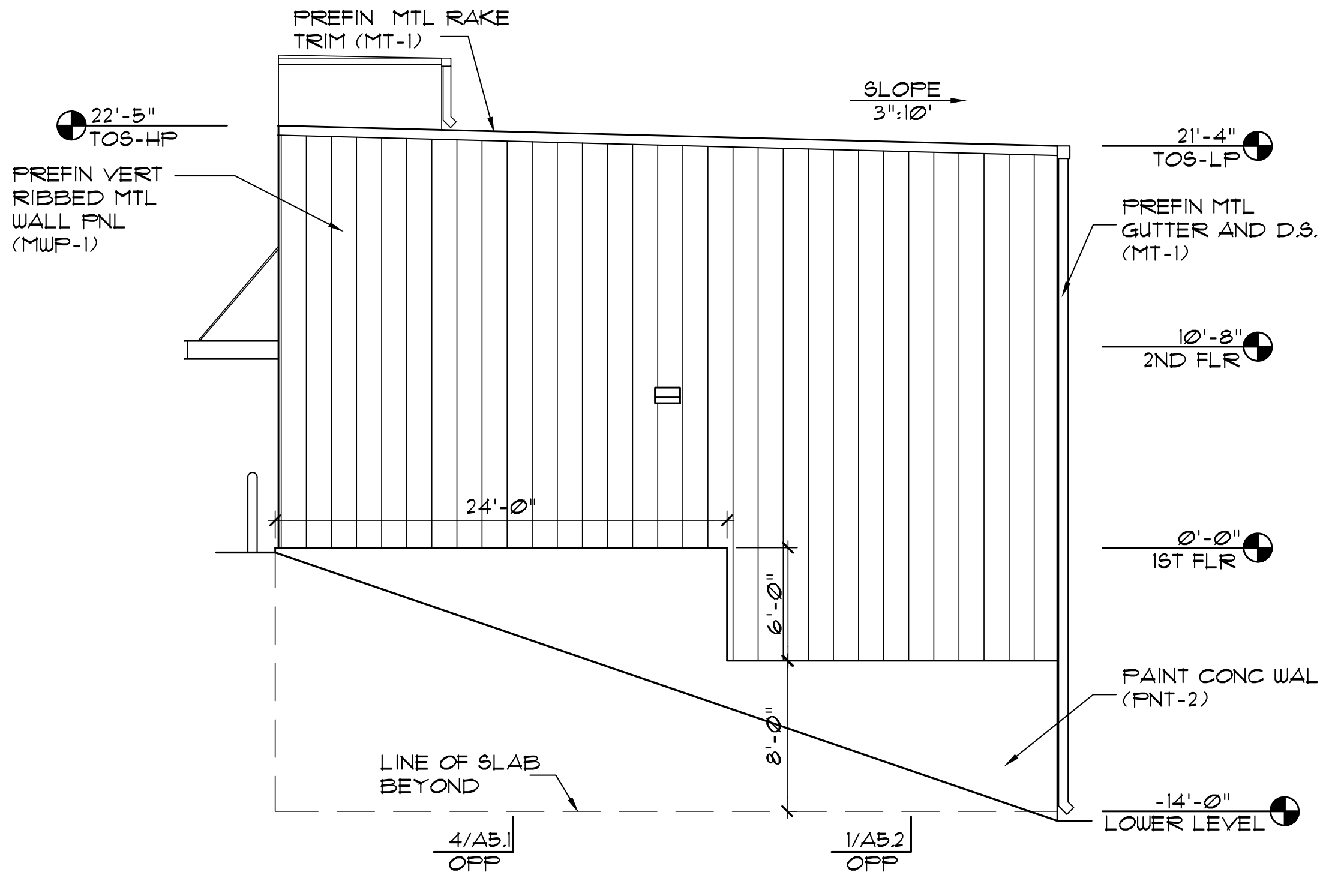
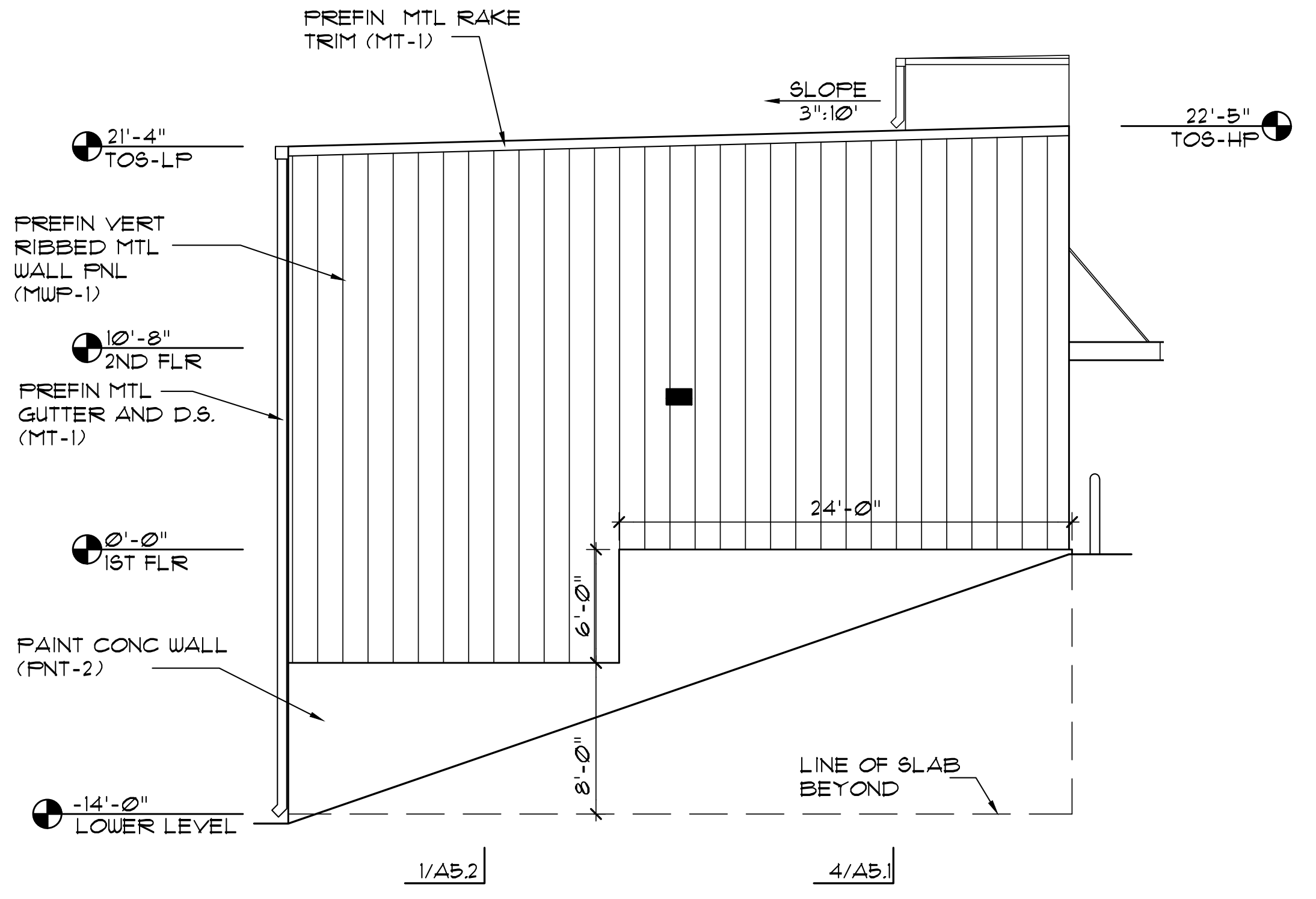
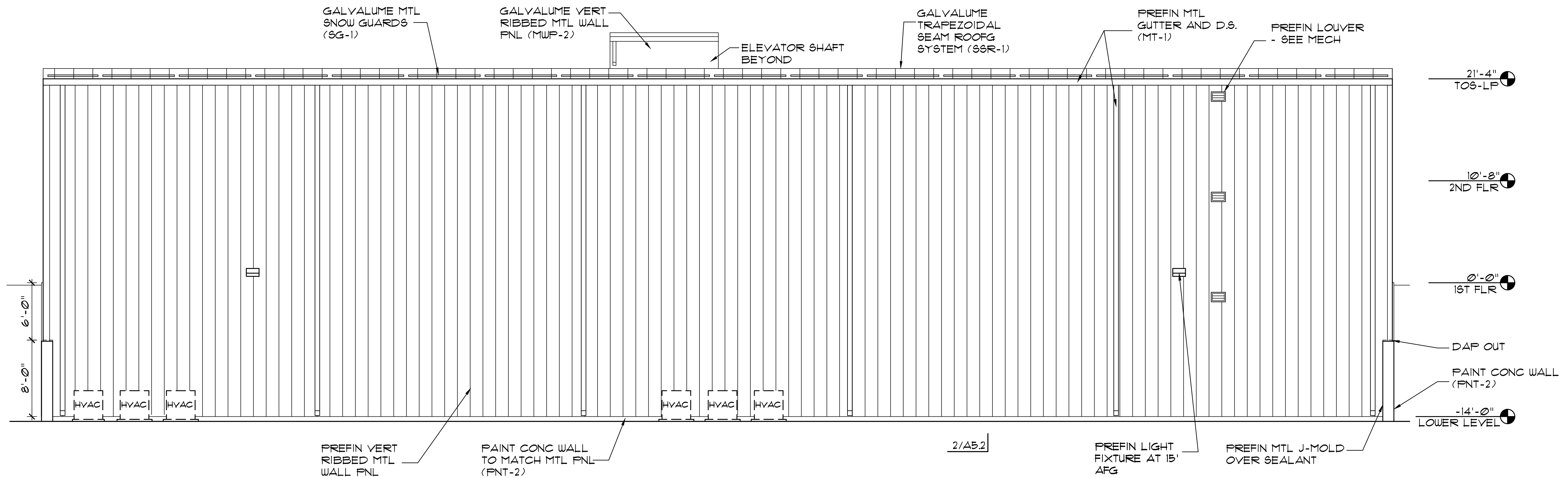


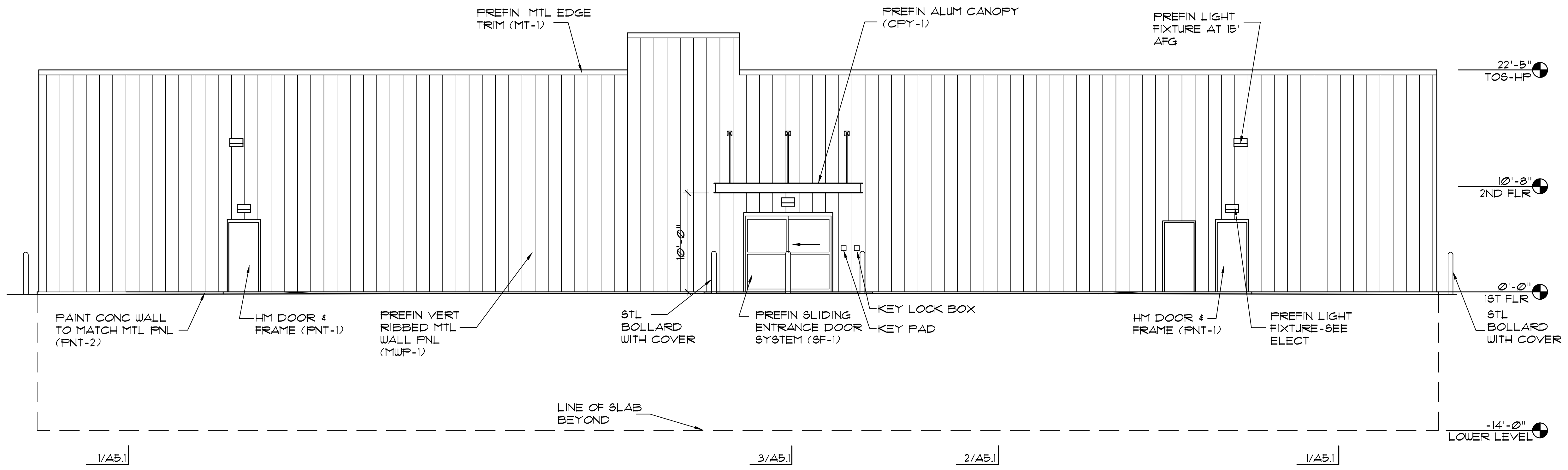
1 A4.1 NORTH ELEVATION
SCALE: 1/8"=1'-0"



2 A4.1 SOUTH ELEVATION
SCALE: 1/8"=1'-0"


GALVALUME MTL SNOW GUARDS (SG-1)
GALVALUME VERT RIBBED MTL WALL PNL (MWP-2)
ELEVATOR SHAFT BEYOND
GALVALUME TRAPEZOIDAL SEAM ROOFG SYSTEM (SSR-1)
PREFIN MTL GUTTER AND D.S. (MT-1)
PREFIN LOUVER - SEE MECH
21'-4" TOS-LP
10'-8" 2ND FLR
0'-0" 1ST FLR
6'-0"
8'-0"
DAP OUT
PAINT CONC WALL (PNT-2)
-14'-0" LOWER LEVEL
HVAC
HVAC
HVAC
HVAC
HVAC
HVAC
PREFIN VERT RIBBED MTL WALL PNL (MWP-1)
PAINT CONC WALL TO MATCH MTL PNL (PNT-2)
2/A5.2
PREFIN LIGHT FIXTURE AT 15' AFG
PREFIN MTL J-MOLD OVER SEALANT

3 A4.1 WEST ELEVATION
SCALE: 1/8"=1'-0"


PREFIN MTL EDGE TRIM (MT-1)
PREFIN ALUM CANOPY (CPY-1)
PREFIN LIGHT FIXTURE AT 15' AFG
22'-5" TOS-HP
10'-8" 2ND FLR
10'-0"
0'-0" 1ST FLR
PAINT CONC WALL TO MATCH MTL PNL (PNT-2)
HM DOOR & FRAME (PNT-1)
PREFIN VERT RIBBED MTL WALL PNL (MWP-1)
STL BOLLARD WITH COVER
PREFIN SLIDING ENTRANCE DOOR SYSTEM (SF-1)
KEY LOCK BOX
KEY PAD
HM DOOR & FRAME (PNT-1)
PREFIN LIGHT FIXTURE-SEE ELECT
STL BOLLARD WITH COVER
LINE OF SLAB BEYOND
-14'-0" LOWER LEVEL
1/A5.1
3/A5.1
2/A5.1
1/A5.1

4 A4.1 EAST ELEVATION
SCALE: 1/8"=1'-0"

EXT FINISH AND COLOR SCHEDULE

MARK	MATERIAL	COLOR
CPY-1	PREFIN ALUM CANOPY	MATCH SHERWIN WILLIAMS SW6811 "HONORABLE BLUE", SATIN
PNT-1	HM DOORS AND FRAMES	MBCI WHITE - MATCH EXISTING
PNT-2	CONCRETE	MATCH MWP-1
MWP-1	PREFIN VERT RIBBER MTL WALL PNL	MBCI WHITE - MATCH EXISTING
MWP-2	GALVALUME VERT RIBBED MTL WALL PNL - PARAPET	GALVALUME PLUS
MT-1	PREFIN MTL TRIM, GUTTERS, AND D.S.	MBCI WHITE - MATCH EXISTING
SF-1	PREFIN ALUM STOREFRONT	DARK BRONZE ANODIZED
SG-1	GALVALUME MTL SNOW GUARDS	GALVALUME PLUS
SSR-1	GALVALUME TRAPEZOIDAL SEAL MTL ROOFG SYSTEM	GALVALUME PLUS

LIGHT SCHEDULE

SYMBOL	LOCATION	COLOR
⊟	EXTERIOR ENTRY	BLACK

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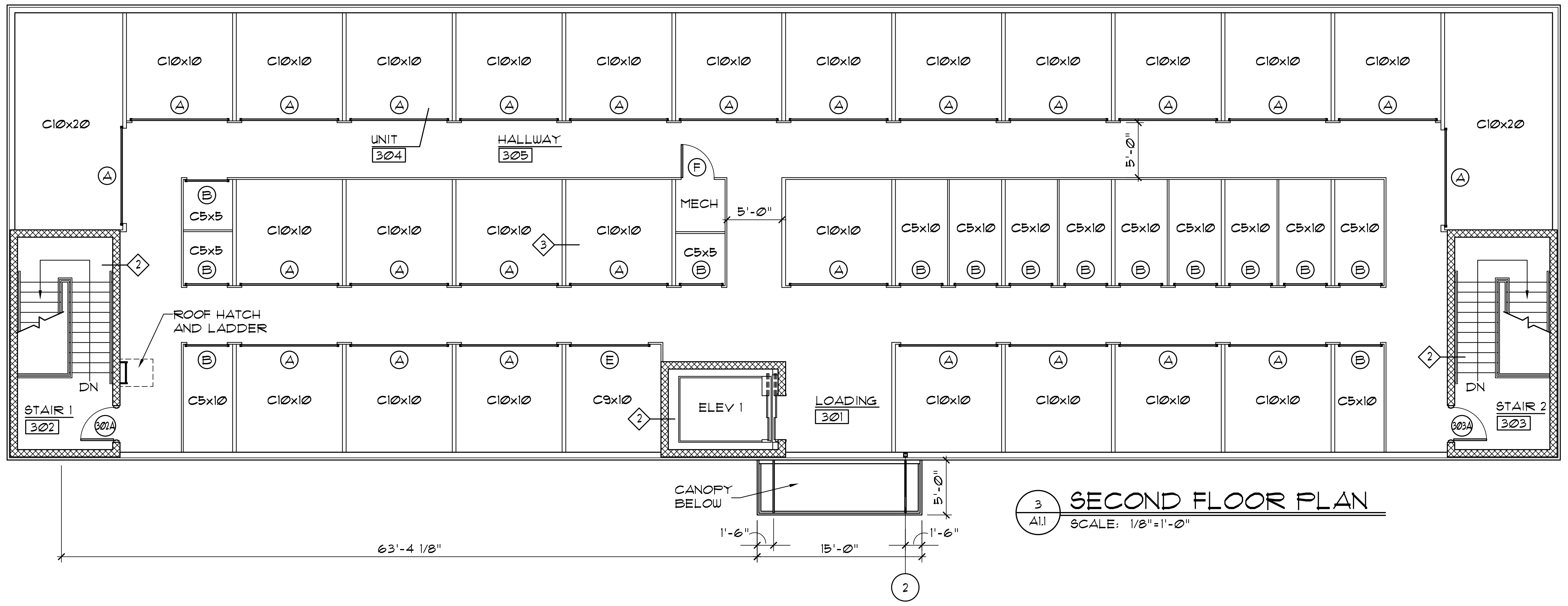
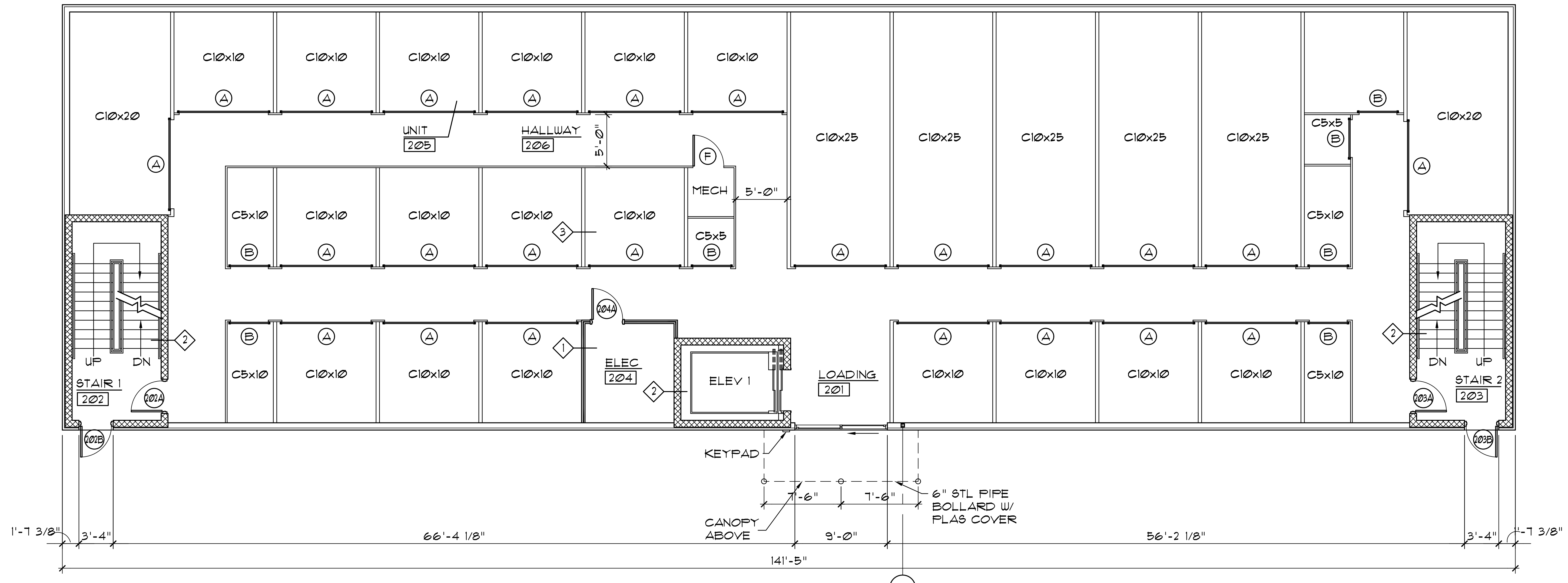


3
A1.1

SECOND FLOOR PLAN

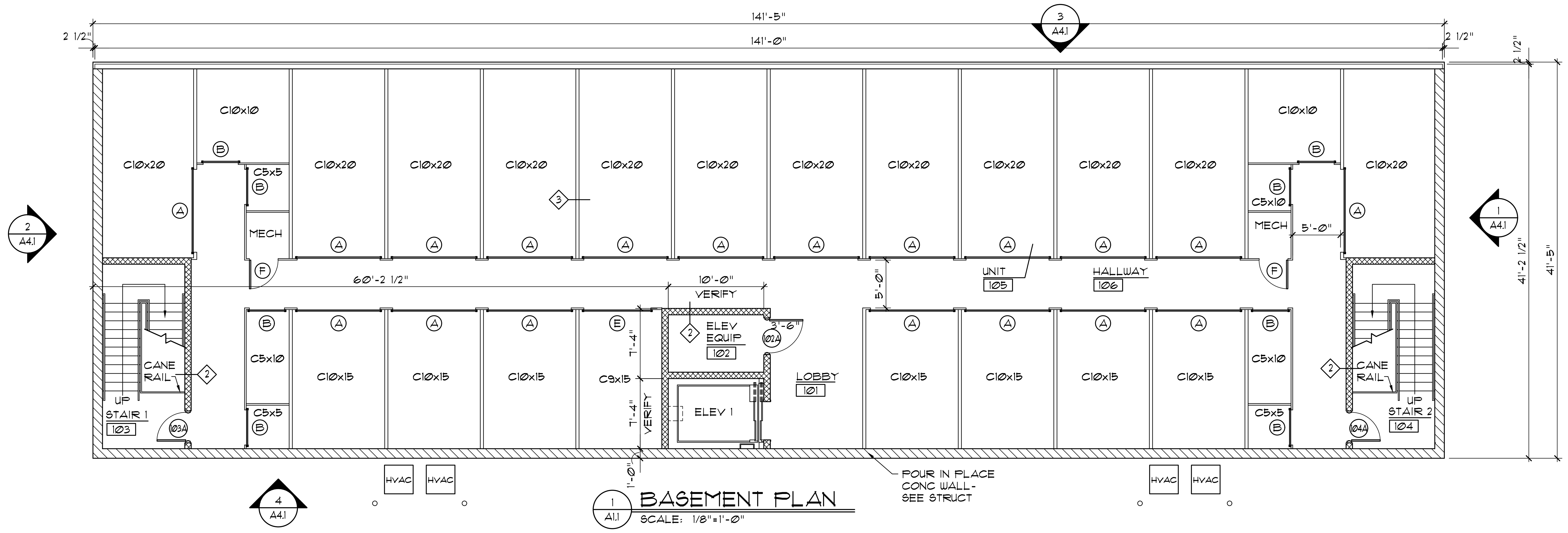
SCALE: 1/8"=1'-0"



2
A1.1

FIRST FLOOR PLAN

SCALE: 1/8"=1'-0"



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A1.1

BASEMENT PLAN

SCALE: 1/8"=1'-0"

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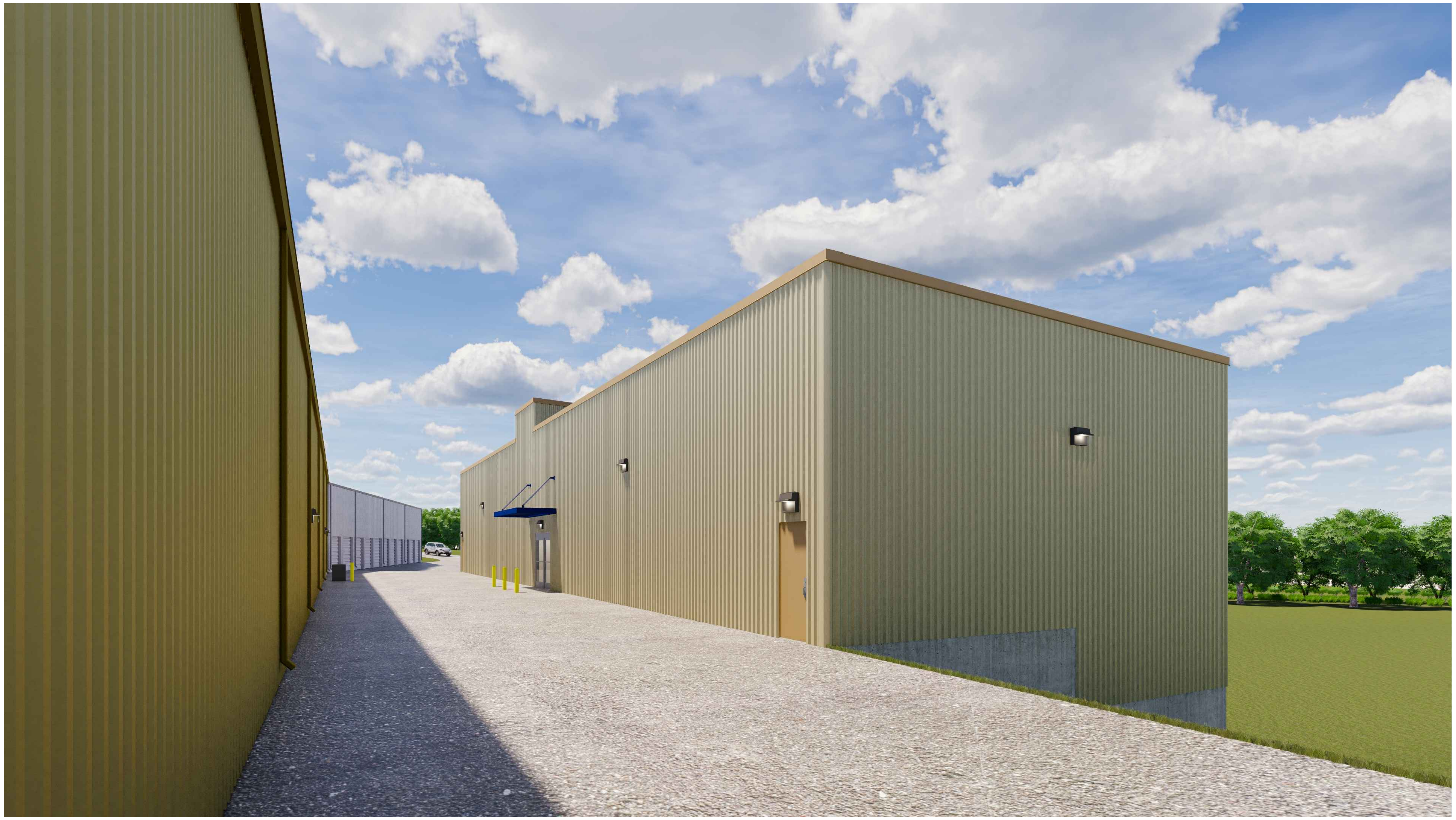

🟨

METAL PANEL

MBCI "LIGHT STONE"

🟫

METAL TRIM

MBCI "SADDLE TAN"
HOLLOW METAL DOORS TO MATCH

🟦

METAL CANOPY

SW 6811 "HONORABLE BLUE"

⬜

STOREFRONT

CLEAR ANODIZED ALUMINUM

PRELIMINARY
NOT FOR
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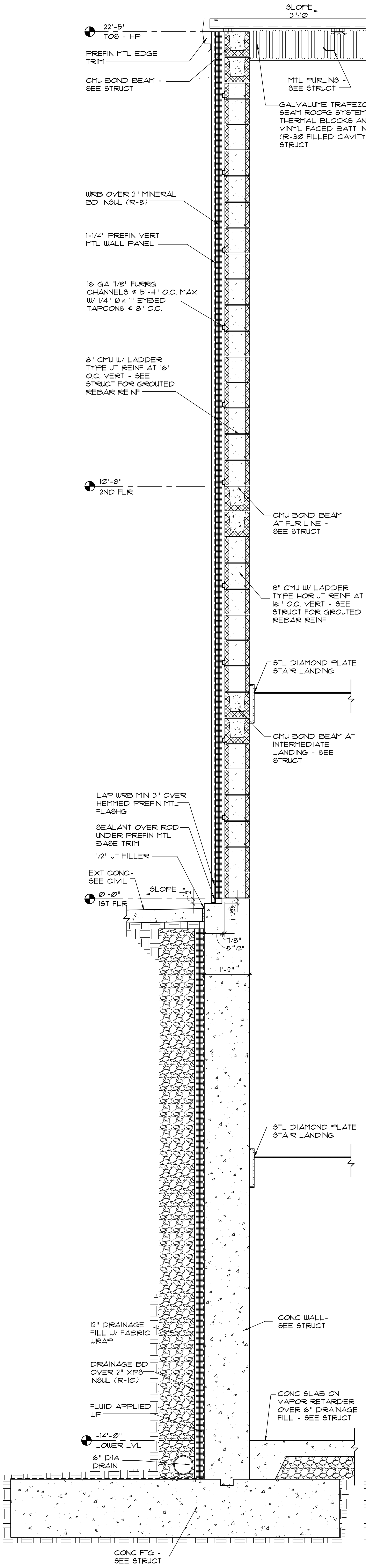
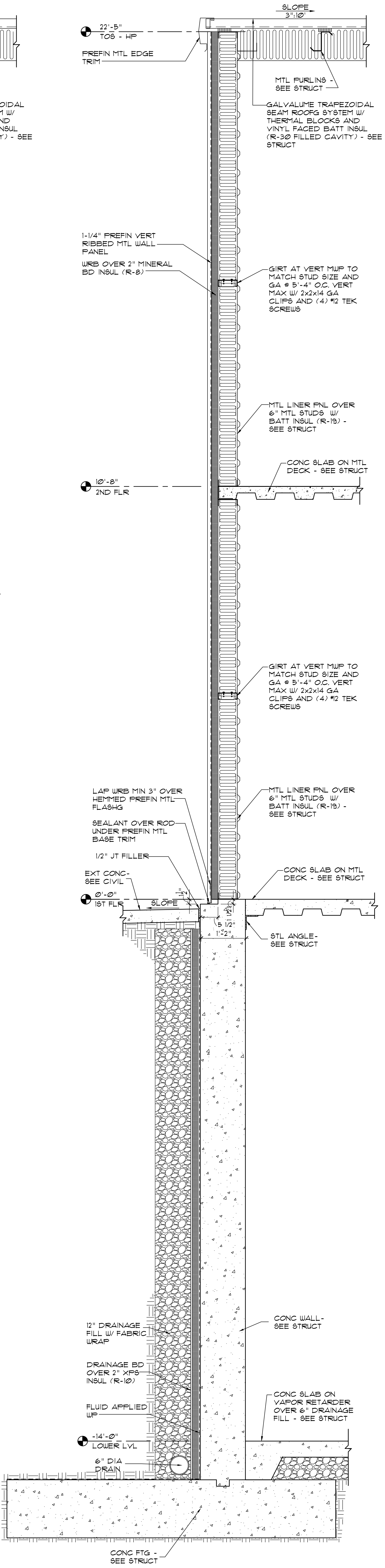

SLOPE
3":10'
22'-5"
TOS - HP
PREFIN MTL EDGE TRIM
CMU BOND BEAM - SEE STRUCT
MTL PURLINS - SEE STRUCT
GALVALUME TRAPEZOIDAL SEAM ROOFG SYSTEM W/ THERMAL BLOCKS AND VINYL FACED BATT INSUL (R-30 FILLED CAVITY) - SEE STRUCT
WRB OVER 2" MINERAL BD INSUL (R-8)
1-1/4" PREFIN VERT MTL WALL PANEL
16 GA 7/8" FURRG CHANNELS @ 5'-4" O.C. MAX W/ 1/4" Ø x 1" EMBED TAPCONS @ 8" O.C.
8" CMU W/ LADDER TYPE JT REINF AT 16" O.C. VERT - SEE STRUCT FOR GROUTED REBAR REINF
10'-8"
2ND FLR
CMU BOND BEAM AT FLR LINE - SEE STRUCT
8" CMU W/ LADDER TYPE HOR JT REINF AT 16" O.C. VERT - SEE STRUCT FOR GROUTED REBAR REINF
STL DIAMOND PLATE STAIR LANDING
CMU BOND BEAM AT INTERMEDIATE LANDING - SEE STRUCT
LAP WRB MIN 3" OVER HEMMED PREFIN MTL FLASHG
SEALANT OVER ROD UNDER PREFIN MTL BASE TRIM
1/2" JT FILLER
EXT CONC- SEE CIVIL
SLOPE
0'-0"
1ST FLR
1/2"
1 1/2"
7/8"
5 1/2"
1'-2"
STL DIAMOND PLATE STAIR LANDING
CONC WALL- SEE STRUCT
12" DRAINAGE FILL W/ FABRIC WRAP
DRAINAGE BD OVER 2" XPS INSUL (R-10)
FLUID APPLIED WP
CONC SLAB ON VAPOR RETARDER OVER 6" DRAINAGE FILL - SEE STRUCT
-14'-0"
LOWER LVL
6" DIA DRAIN
CONC FTG - SEE STRUCT

1
A5.1

WALL SECTION

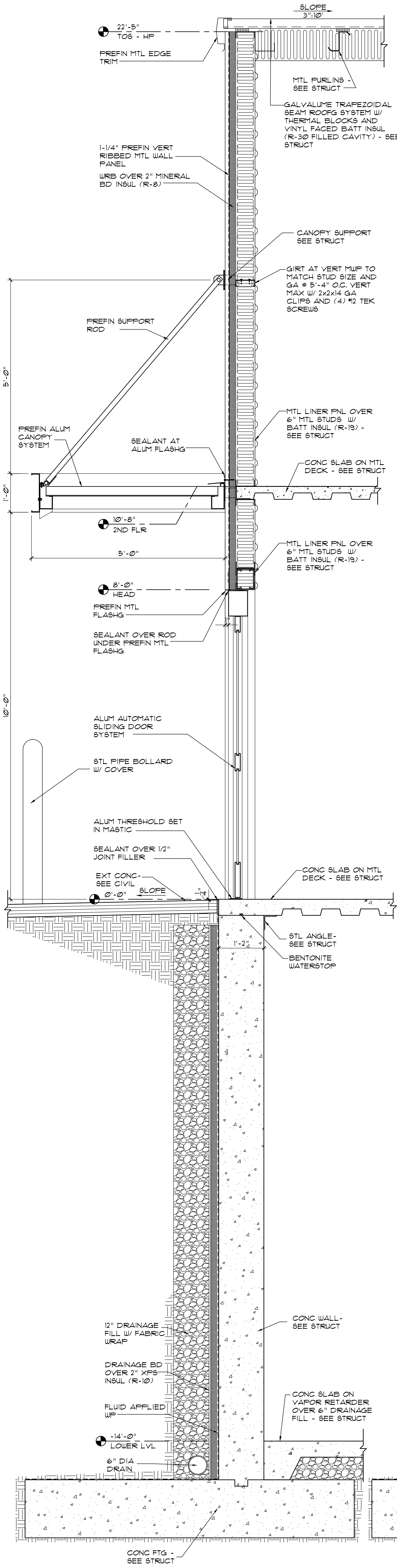
SCALE: 3/4"=1'-0"


SLOPE
3":10'
22'-5"
TOS - HP
PREFIN MTL EDGE TRIM
MTL PURLINS - SEE STRUCT
GALVALUME TRAPEZOIDAL SEAM ROOFG SYSTEM W/ THERMAL BLOCKS AND VINYL FACED BATT INSUL (R-30 FILLED CAVITY) - SEE STRUCT
1-1/4" PREFIN VERT RIBBED MTL WALL PANEL
WRB OVER 2" MINERAL BD INSUL (R-8)
GIRT AT VERT MWP TO MATCH STUD SIZE AND GA @ 5'-4" O.C. VERT MAX W/ 2x2x14 GA CLIPS AND (4) #12 TEK SCREWS
MTL LINER PNL OVER 6" MTL STUDS W/ BATT INSUL (R-19) - SEE STRUCT
CONC SLAB ON MTL DECK - SEE STRUCT
10'-8"
2ND FLR
GIRT AT VERT MWP TO MATCH STUD SIZE AND GA @ 5'-4" O.C. VERT MAX W/ 2x2x14 GA CLIPS AND (4) #12 TEK SCREWS
LAP WRB MIN 3" OVER HEMMED PREFIN MTL FLASHG
SEALANT OVER ROD UNDER PREFIN MTL BASE TRIM
1/2" JT FILLER
MTL LINER PNL OVER 6" MTL STUDS W/ BATT INSUL (R-19) - SEE STRUCT
EXT CONC- SEE CIVIL
CONC SLAB ON MTL DECK - SEE STRUCT
0'-0"
1ST FLR
SLOPE
1/2"
1 1/2"
5 1/2"
1'-2"
STL ANGLE- SEE STRUCT
12" DRAINAGE FILL W/ FABRIC WRAP
DRAINAGE BD OVER 2" XPS INSUL (R-10)
FLUID APPLIED WP
CONC WALL- SEE STRUCT
CONC SLAB ON VAPOR RETARDER OVER 6" DRAINAGE FILL - SEE STRUCT
-14'-0"
LOWER LVL
6" DIA DRAIN
CONC FTG - SEE STRUCT

2
A5.1

WALL SECTION

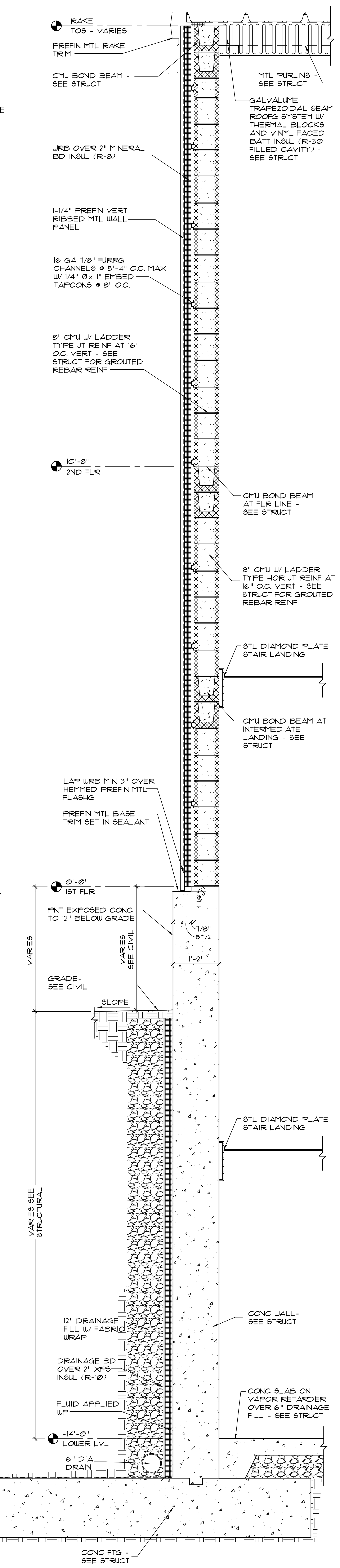
SCALE: 3/4"=1'-0"


SLOPE
3":10'
22'-5"
TOS - HP
PREFIN MTL EDGE TRIM
MTL PURLINS - SEE STRUCT
GALVALUME TRAPEZOIDAL SEAM ROOFG SYSTEM W/ THERMAL BLOCKS AND VINYL FACED BATT INSUL (R-30 FILLED CAVITY) - SEE STRUCT
1-1/4" PREFIN VERT RIBBED MTL WALL PANEL
WRB OVER 2" MINERAL BD INSUL (R-8)
CANOPY SUPPORT SEE STRUCT
GIRT AT VERT MWP TO MATCH STUD SIZE AND GA @ 5'-4" O.C. VERT MAX W/ 2x2x14 GA CLIPS AND (4) #12 TEK SCREWS
PREFIN SUPPORT ROD
5'-0"
PREFIN ALUM CANOPY SYSTEM
SEALANT AT ALUM FLASHG
MTL LINER PNL OVER 6" MTL STUDS W/ BATT INSUL (R-19) - SEE STRUCT
CONC SLAB ON MTL DECK - SEE STRUCT
1'-0"
10'-8"
2ND FLR
5'-0"
MTL LINER PNL OVER 6" MTL STUDS W/ BATT INSUL (R-19) - SEE STRUCT
8'-0"
HEAD
PREFIN MTL FLASHG
SEALANT OVER ROD UNDER PREFIN MTL FLASHG
1"
10'-0"
ALUM AUTOMATIC SLIDING DOOR SYSTEM
STL PIPE BOLLARD W/ COVER
ALUM THRESHOLD SET IN MASTIC
SEALANT OVER 1/2" JOINT FILLER
EXT CONC- SEE CIVIL
0'-0"
SLOPE
1/4"
CONC SLAB ON MTL DECK - SEE STRUCT
1'-2"
STL ANGLE- SEE STRUCT
BENTONITE WATERSTOP
12" DRAINAGE FILL W/ FABRIC WRAP
DRAINAGE BD OVER 2" XPS INSUL (R-10)
FLUID APPLIED WP
CONC WALL- SEE STRUCT
CONC SLAB ON VAPOR RETARDER OVER 6" DRAINAGE FILL - SEE STRUCT
-14'-0"
LOWER LVL
6" DIA DRAIN
CONC FTG - SEE STRUCT

3
A5.1

WALL SECTION

SCALE: 3/4"=1'-0"


RAKE
TOS - VARIES
PREFIN MTL RAKE TRIM
CMU BOND BEAM - SEE STRUCT
MTL PURLINS - SEE STRUCT
GALVALUME TRAPEZOIDAL SEAM ROOFG SYSTEM W/ THERMAL BLOCKS AND VINYL FACED BATT INSUL (R-30 FILLED CAVITY) - SEE STRUCT
WRB OVER 2" MINERAL BD INSUL (R-8)
1-1/4" PREFIN VERT RIBBED MTL WALL PANEL
16 GA 7/8" FURRG CHANNELS @ 5'-4" O.C. MAX W/ 1/4" Ø x 1" EMBED TAPCONS @ 8" O.C.
8" CMU W/ LADDER TYPE JT REINF AT 16" O.C. VERT - SEE STRUCT FOR GROUTED REBAR REINF
10'-8"
2ND FLR
CMU BOND BEAM AT FLR LINE - SEE STRUCT
8" CMU W/ LADDER TYPE HOR JT REINF AT 16" O.C. VERT - SEE STRUCT FOR GROUTED REBAR REINF
STL DIAMOND PLATE STAIR LANDING
CMU BOND BEAM AT INTERMEDIATE LANDING - SEE STRUCT
LAP WRB MIN 3" OVER HEMMED PREFIN MTL FLASHG
PREFIN MTL BASE TRIM SET IN SEALANT
0'-0"
1ST FLR
1 1/2"
PNT EXPOSED CONC TO 12" BELOW GRADE
7/8"
5 1/2"
1'-2"
VARIES
VARIES SEE CIVIL
GRADE- SEE CIVIL
SLOPE
STL DIAMOND PLATE STAIR LANDING
VARIES SEE STRUCTURAL
CONC WALL- SEE STRUCT
12" DRAINAGE FILL W/ FABRIC WRAP
DRAINAGE BD OVER 2" XPS INSUL (R-10)
FLUID APPLIED WP
CONC SLAB ON VAPOR RETARDER OVER 6" DRAINAGE FILL - SEE STRUCT
-14'-0"
LOWER LVL
6" DIA DRAIN
CONC FTG - SEE STRUCT

4
A5.1

WALL SECTION

SCALE: 3/4"=1'-0"

SHEET NUMBER
A5.1

PROJECT NUMBER
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DATE
9-28-22

ISSUE: FOR CONSTRUCTION
REVISIONS:

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Self Storage Phase II

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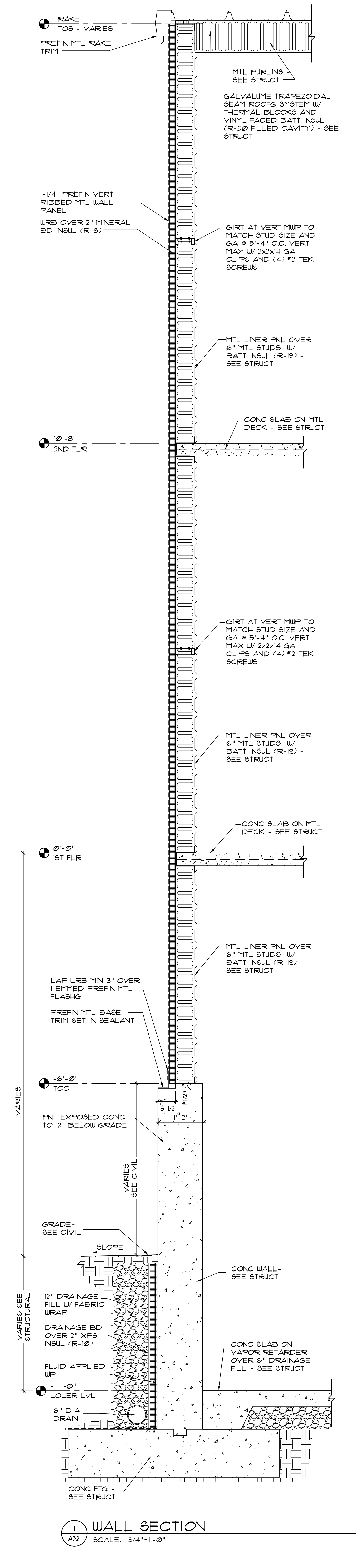
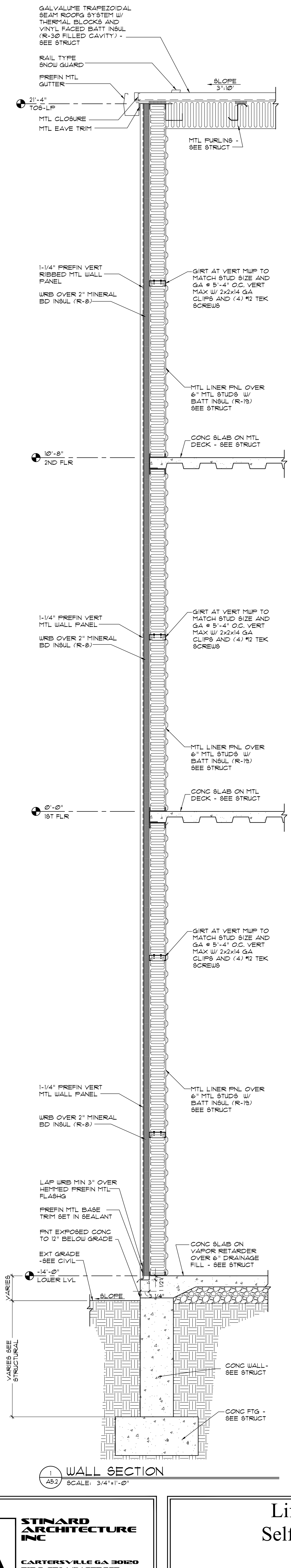

RAKE
TOS - VARIES
PREFIN MTL RAKE TRIM
MTL FURLING - SEE STRUCT
GALVALUME TRAPEZOIDAL SEAM ROOFG SYSTEM W/ THERMAL BLOCKS AND VINYL FACED BATT INSUL (R-30 FILLED CAVITY) - SEE STRUCT
1-1/4" PREFIN VERT RIBBED MTL WALL PANEL
WRB OVER 2" MINERAL BD INSUL (R-8)
GIRT AT VERT MUP TO MATCH STUD SIZE AND GA @ 5'-4" O.C. VERT MAX W/ 2x2x14 GA CLIPS AND (4) #12 TEK SCREWS
MTL LINER PNL OVER 6" MTL STUDS W/ BATT INSUL (R-19) - SEE STRUCT
CONC SLAB ON MTL DECK - SEE STRUCT
10'-8"
2ND FLR
GIRT AT VERT MUP TO MATCH STUD SIZE AND GA @ 5'-4" O.C. VERT MAX W/ 2x2x14 GA CLIPS AND (4) #12 TEK SCREWS
MTL LINER PNL OVER 6" MTL STUDS W/ BATT INSUL (R-19) - SEE STRUCT
CONC SLAB ON MTL DECK - SEE STRUCT
0'-0"
1ST FLR
MTL LINER PNL OVER 6" MTL STUDS W/ BATT INSUL (R-19) - SEE STRUCT
LAP WRB MIN 3" OVER HEMMED PREFIN MTL FLASHG
PREFIN MTL BASE TRIM SET IN SEALANT
-6'-0"
TOC
VARIES
1 1/2"
5 1/2"
1'-2"
PNT EXPOSED CONC TO 12" BELOW GRADE
VARIES SEE CIVIL
GRADE- SEE CIVIL
SLOPE
CONC WALL- SEE STRUCT
VARIES SEE STRUCTURAL
12" DRAINAGE FILL W/ FABRIC WRAP
DRAINAGE BD OVER 2" XPS INSUL (R-10)
FLUID APPLIED WP
CONC SLAB ON VAPOR RETARDER OVER 6" DRAINAGE FILL - SEE STRUCT
-14'-0"
LOWER LVL
6" DIA DRAIN
CONC FTG - SEE STRUCT

1
A5.2
WALL SECTION
SCALE: 3/4"=1'-0"


GALVALUME TRAPEZOIDAL SEAM ROOFG SYSTEM W/ THERMAL BLOCKS AND VINYL FACED BATT INSUL (R-30 FILLED CAVITY) - SEE STRUCT
RAIL TYPE SNOW GUARD
PREFIN MTL GUTTER
SLOPE
3"/10'
21'-4"
TOS-LIP
MTL CLOSURE
MTL EAVE TRIM
MTL FURLING - SEE STRUCT
1-1/4" PREFIN VERT RIBBED MTL WALL PANEL
WRB OVER 2" MINERAL BD INSUL (R-8)
GIRT AT VERT MUP TO MATCH STUD SIZE AND GA @ 5'-4" O.C. VERT MAX W/ 2x2x14 GA CLIPS AND (4) #12 TEK SCREWS
MTL LINER PNL OVER 6" MTL STUDS W/ BATT INSUL (R-19) SEE STRUCT
CONC SLAB ON MTL DECK - SEE STRUCT
10'-8"
2ND FLR
1-1/4" PREFIN VERT MTL WALL PANEL
WRB OVER 2" MINERAL BD INSUL (R-8)
GIRT AT VERT MUP TO MATCH STUD SIZE AND GA @ 5'-4" O.C. VERT MAX W/ 2x2x14 GA CLIPS AND (4) #12 TEK SCREWS
MTL LINER PNL OVER 6" MTL STUDS W/ BATT INSUL (R-19) SEE STRUCT
CONC SLAB ON MTL DECK - SEE STRUCT
0'-0"
1ST FLR
GIRT AT VERT MUP TO MATCH STUD SIZE AND GA @ 5'-4" O.C. VERT MAX W/ 2x2x14 GA CLIPS AND (4) #12 TEK SCREWS
1-1/4" PREFIN VERT MTL WALL PANEL
WRB OVER 2" MINERAL BD INSUL (R-8)
MTL LINER PNL OVER 6" MTL STUDS W/ BATT INSUL (R-19) SEE STRUCT
LAP WRB MIN 3" OVER HEMMED PREFIN MTL FLASHG
PREFIN MTL BASE TRIM SET IN SEALANT
PNT EXPOSED CONC TO 12" BELOW GRADE
EXT GRADE -SEE CIVIL
CONC SLAB ON VAPOR RETARDER OVER 6" DRAINAGE FILL - SEE STRUCT
-14'-0"
LOWER LVL
VARIES
SLOPE
1 1/2"
3 1/4"
VARIES SEE STRUCTURAL
CONC WALL- SEE STRUCT
CONC FTG - SEE STRUCT

1
A5.2
WALL SECTION
SCALE: 3/4"=1'-0"

SHEET NUMBER
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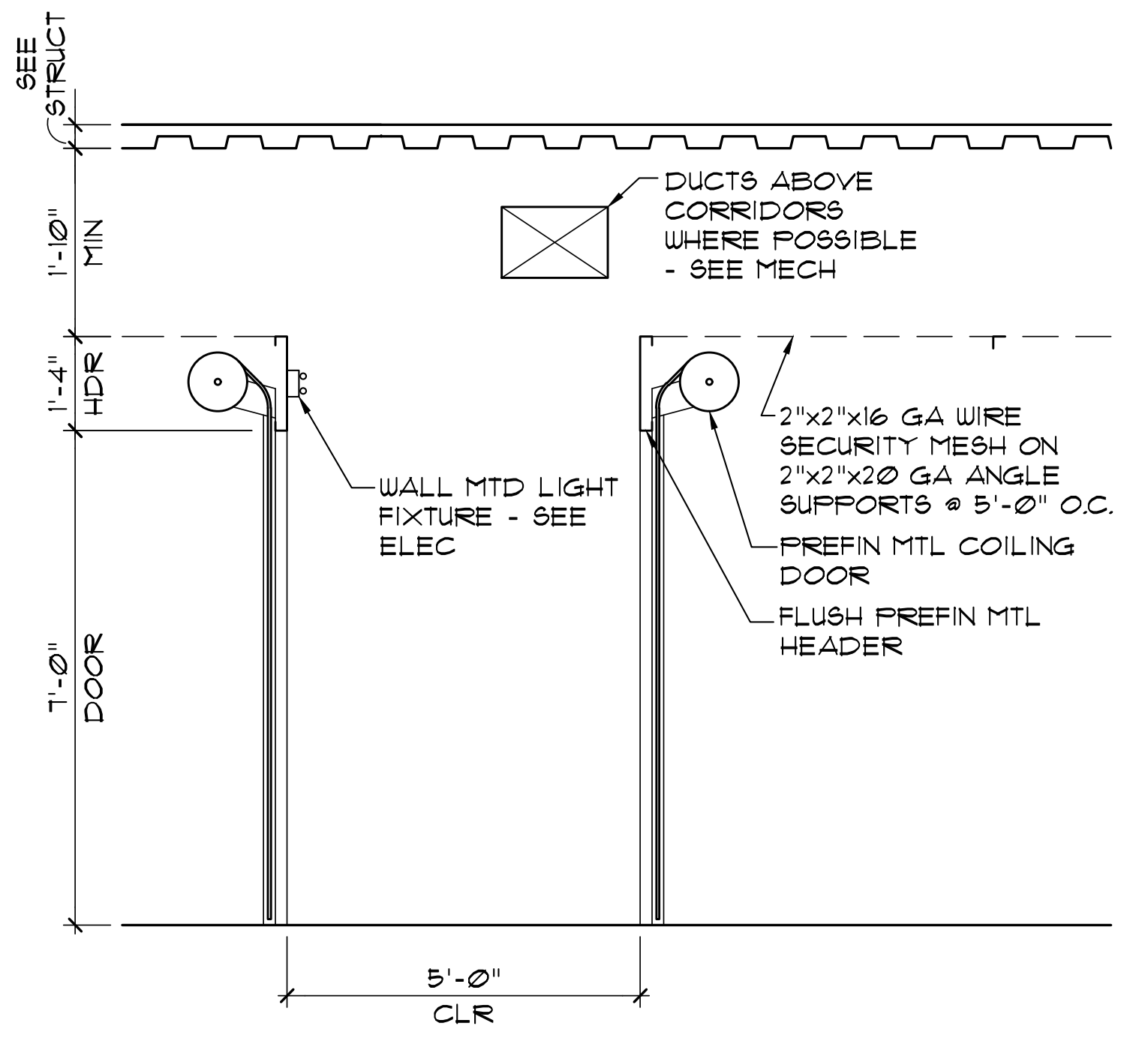
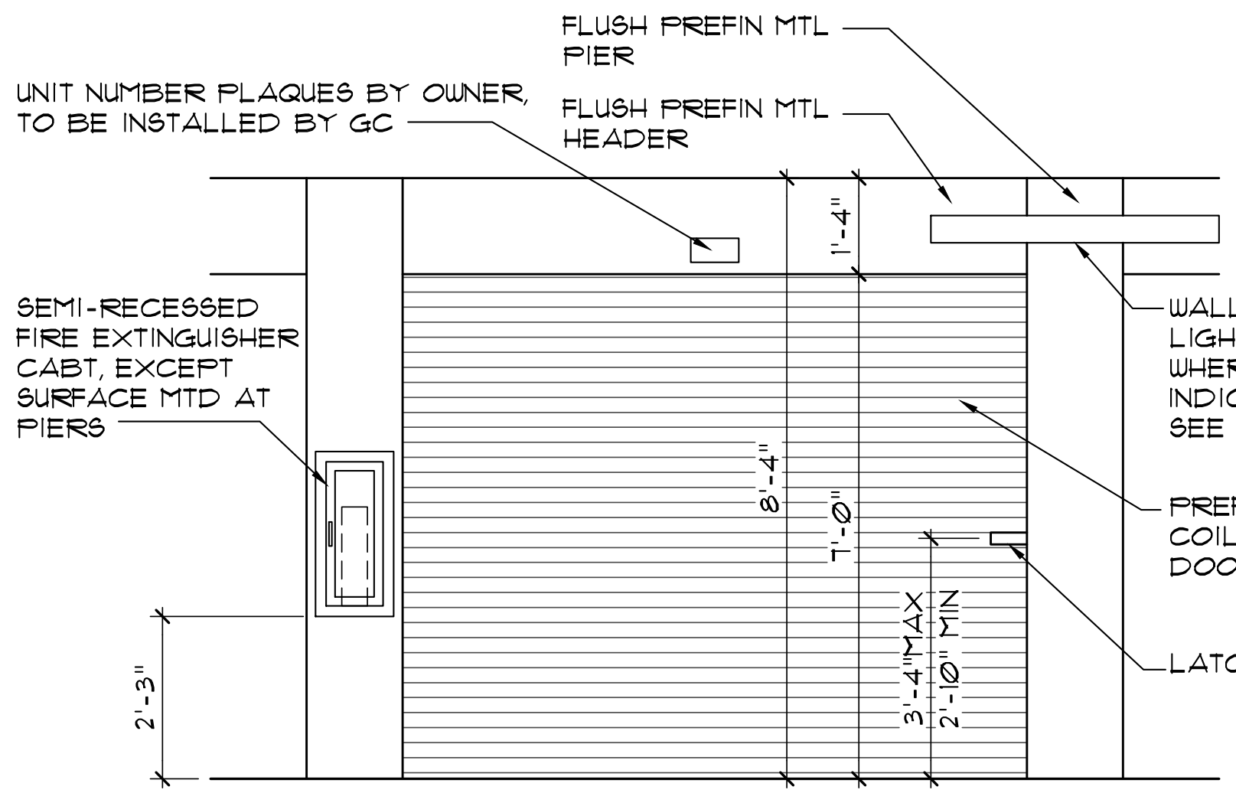

SEE STRUCT
1'-10" MIN
1'-4" HDR
7'-0" DOOR
DUCTS ABOVE CORRIDORS WHERE POSSIBLE - SEE MECH
WALL MTD LIGHT FIXTURE - SEE ELEC
2"x2"x16 GA WIRE SECURITY MESH ON 2"x2"x20 GA ANGLE SUPPORTS @ 5'-0" O.C.
PREFIN MTL COILING DOOR
FLUSH PREFIN MTL HEADER
5'-0" CLR

1 A5.3 TYPICAL CORRIDOR SECTION

SCALE: 3/8" = 1'-0"

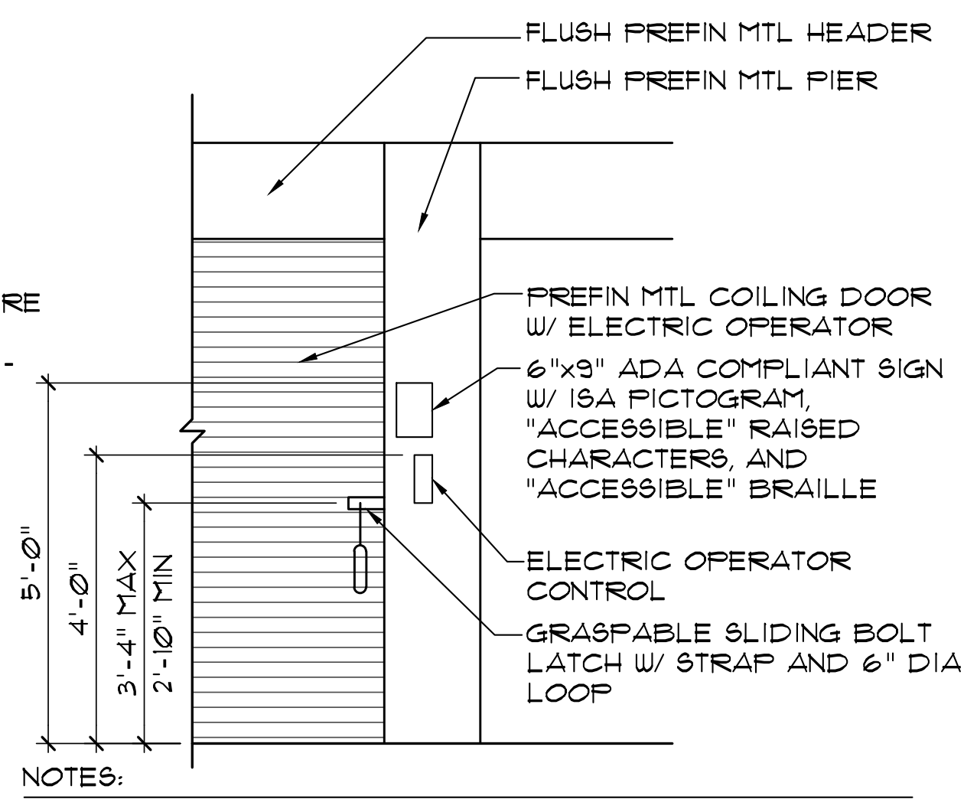

UNIT NUMBER PLAQUES BY OWNER, TO BE INSTALLED BY GC
FLUSH PREFIN MTL PIER
FLUSH PREFIN MTL HEADER
SEMI-RECESSED FIRE EXTINGUISHER CABT, EXCEPT SURFACE MTD AT PIERS
WALL MTD LIGHT FIXTURE WHERE INDICATED - SEE ELEC
PREFIN MTL COILING DOOR
LATCH
8'-4"
1'-4"
7'-0"
2'-3"
3'-4" MAX
2'-10" MIN

NOTES:

1. PROVIDE 2x2x16 GA WIRE MESH W/ 2x2x20 GA SUPPORT ANGLES ON A 5'x10' GRID ACROSS THE TOP OF STORAGE UNITS AT THE TOP OF METAL WALL PANELS, FOR PROTECTION OF SPRINKLER HEADS.

2 A5.3 TYPICAL INTERIOR STORAGE UNIT

SCALE: 3/8" = 1'-0"

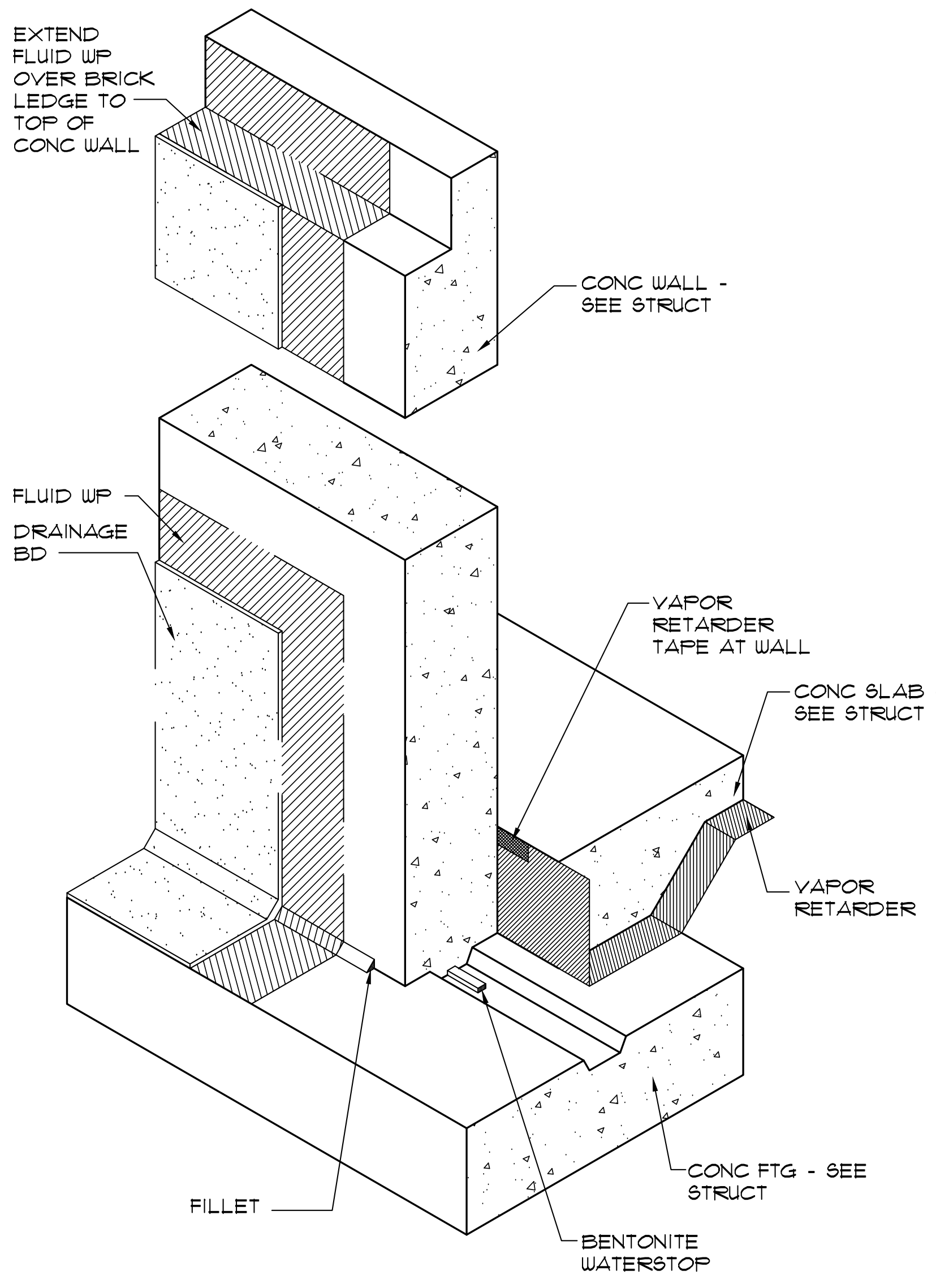

FLUSH PREFIN MTL HEADER
FLUSH PREFIN MTL PIER
PREFIN MTL COILING DOOR W/ ELECTRIC OPERATOR
6"x9" ADA COMPLIANT SIGN W/ ISA PICTOGRAM, "ACCESSIBLE" RAISED CHARACTERS, AND "ACCESSIBLE" BRAILLE
ELECTRIC OPERATOR CONTROL
GRASPABLE SLIDING BOLT LATCH W/ STRAP AND 6" DIA LOOP
5'-0"
4'-0"
3'-4" MAX
2'-10" MIN

NOTES:

1. PROVIDE HANDICAP ACCESSIBLE STORAGE UNITS WHERE INDICATED ON PLANS BY THE SYMBOL: ♿
2. DETAIL IS FOR ACCESSIBLE UNITS WITH COILING DOORS. FOR ACCESSIBLE UNITS WITH SWING DOORS, PROVIDE BOLT STRAP AND 6"x9" ADA COMPLIANT SIGN, .

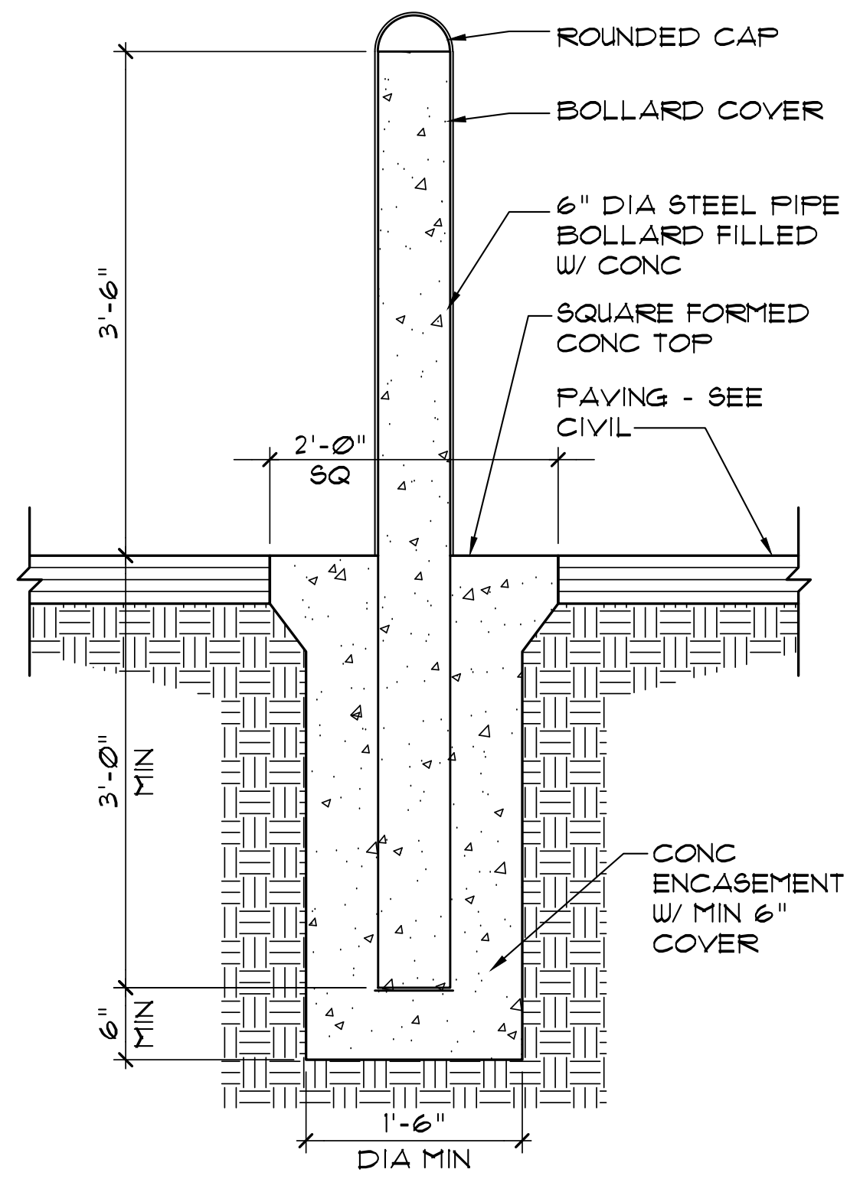
3 A5.3 HANDICAP ACCESSIBLE UNIT

SCALE: 3/8" = 1'-0"



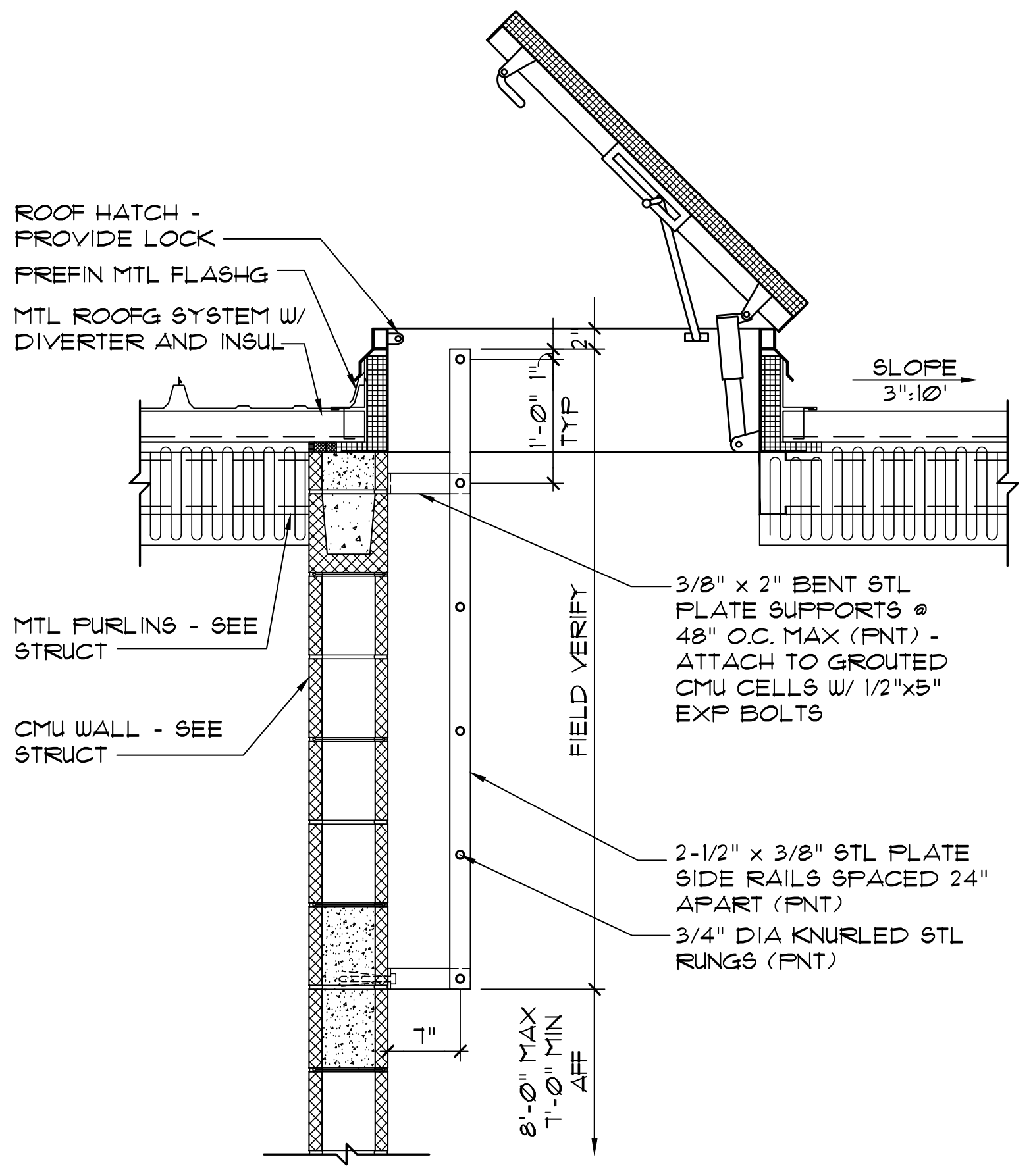
4 A5.3 FOUNDATION WATERPROOFING

SCALE: 3/4"=1'-0"



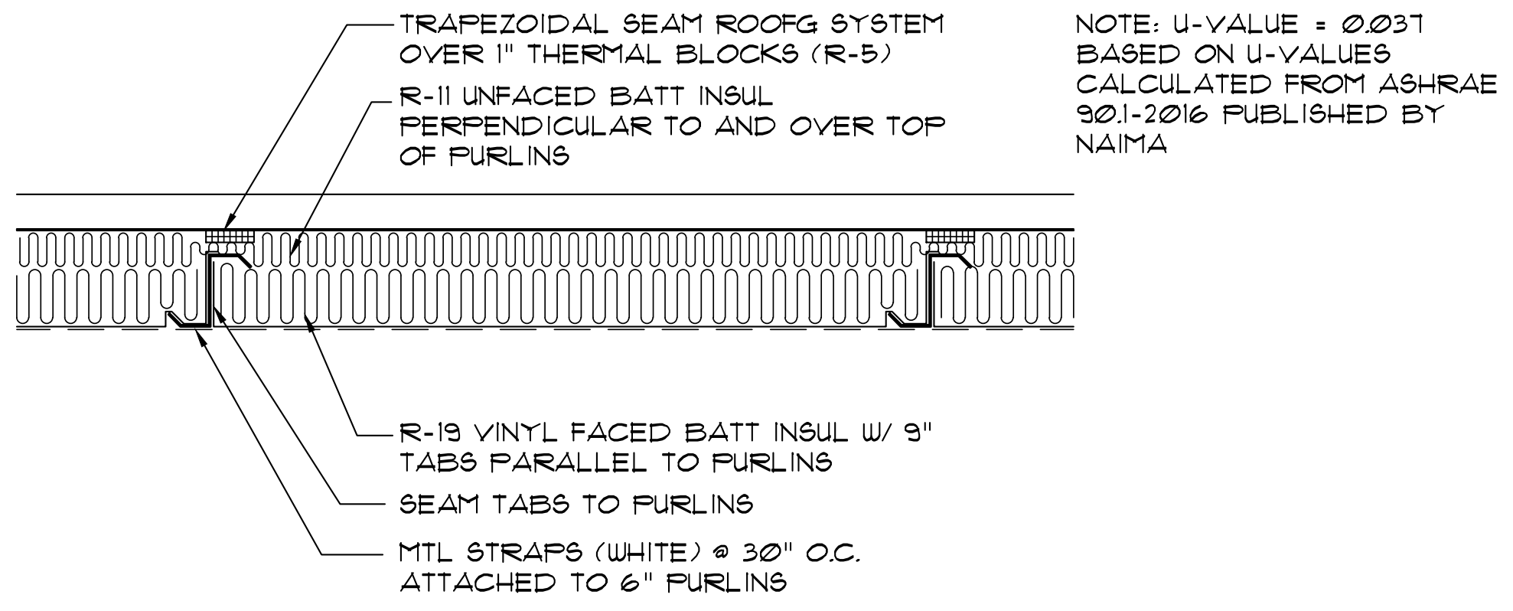
5 A5.3 BOLLARD DETAIL

SCALE: 3/4"=1'-0"


ROOF HATCH - PROVIDE LOCK
PREFIN MTL FLASHG
MTL ROOFG SYSTEM W/ DIVERTER AND INSUL
SLOPE 3":10'
2"
1"
1'-0" TYP
MTL PURLINS - SEE STRUCT
CMU WALL - SEE STRUCT
3/8" x 2" BENT STL PLATE SUPPORTS @ 48" O.C. MAX (PNT) - ATTACH TO GROUTED CMU CELLS W/ 1/2"x5" EXP BOLTS
FIELD VERIFY
2-1/2" x 3/8" STL PLATE SIDE RAILS SPACED 24" APART (PNT)
3/4" DIA KNURLED STL RUNGS (PNT)
7"
8'-0" MAX 7'-0" MIN AFF

6 A5.3 ROOF HATCH DETAIL

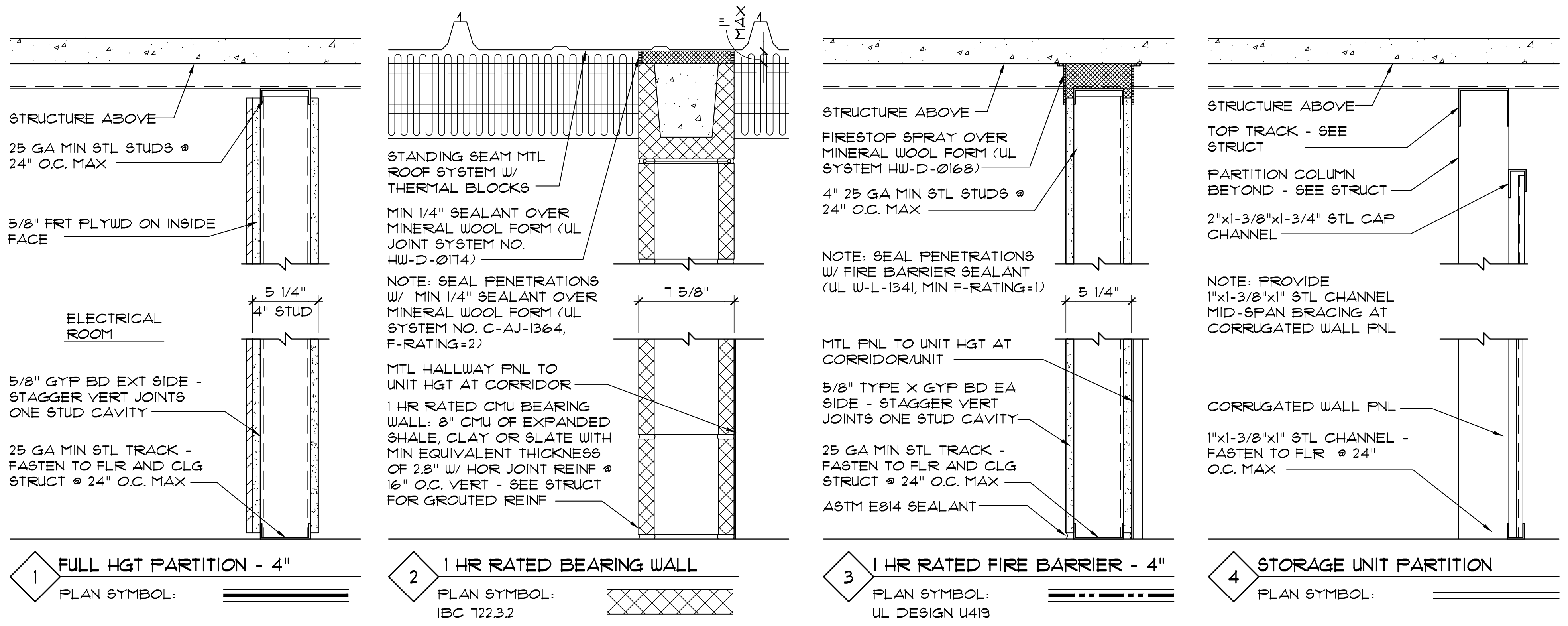
SCALE: 3/4" = 1'-0"


TRAPEZOIDAL SEAM ROOFG SYSTEM OVER 1" THERMAL BLOCKS (R-5)
R-11 UNFACED BATT INSUL PERPENDICULAR TO AND OVER TOP OF PURLINS
R-19 VINYL FACED BATT INSUL W/ 9" TABS PARALLEL TO PURLINS
SEAM TABS TO PURLINS
MTL STRAPS (WHITE) @ 30" O.C. ATTACHED TO 6" PURLINS

NOTE: U-VALUE = 0.037 BASED ON U-VALUES CALCULATED FROM ASHRAE 90.1-2016 PUBLISHED BY NAIMA

7 A5.3 R-30 FILLED CAVITY DETAIL

SCALE: 3/4"=1'-0"


STRUCTURE ABOVE
25 GA MIN STL STUDS @ 24" O.C. MAX
5/8" FRT PLYWD ON INSIDE FACE
ELECTRICAL ROOM
5 1/4"
4" STUD
5/8" GYP BD EXT SIDE - STAGGER VERT JOINTS ONE STUD CAVITY
25 GA MIN STL TRACK - FASTEN TO FLR AND CLG STRUCT @ 24" O.C. MAX
STANDING SEAM MTL ROOF SYSTEM W/ THERMAL BLOCKS
MIN 1/4" SEALANT OVER MINERAL WOOL FORM (UL JOINT SYSTEM NO. HW-D-0174)
NOTE: SEAL PENETRATIONS W/ MIN 1/4" SEALANT OVER MINERAL WOOL FORM (UL SYSTEM NO. C-AJ-1364, F-RATING=2)
MTL HALLWAY PNL TO UNIT HGT AT CORRIDOR
1 HR RATED CMU BEARING WALL: 8" CMU OF EXPANDED SHALE, CLAY OR SLATE WITH MIN EQUIVALENT THICKNESS OF 2.8" W/ HOR JOINT REINF @ 16" O.C. VERT - SEE STRUCT FOR GROUTED REINF
1" MAX
7 5/8"
STRUCTURE ABOVE
FIRESTOP SPRAY OVER MINERAL WOOL FORM (UL SYSTEM HW-D-0168)
4" 25 GA MIN STL STUDS @ 24" O.C. MAX
NOTE: SEAL PENETRATIONS W/ FIRE BARRIER SEALANT (UL W-L-1341, MIN F-RATING=1)
5 1/4"
MTL PNL TO UNIT HGT AT CORRIDOR/UNIT
5/8" TYPE X GYP BD EA SIDE - STAGGER VERT JOINTS ONE STUD CAVITY
25 GA MIN STL TRACK - FASTEN TO FLR AND CLG STRUCT @ 24" O.C. MAX
ASTM E814 SEALANT
STRUCTURE ABOVE
TOP TRACK - SEE STRUCT
PARTITION COLUMN BEYOND - SEE STRUCT
2"x1-3/8"x1-3/4" STL CAP CHANNEL
NOTE: PROVIDE 1"x1-3/8"x1" STL CHANNEL MID-SPAN BRACING AT CORRUGATED WALL PNL
CORRUGATED WALL PNL
1"x1-3/8"x1" STL CHANNEL - FASTEN TO FLR @ 24" O.C. MAX

1 FULL HGT PARTITION - 4"
PLAN SYMBOL: ═

2 1 HR RATED BEARING WALL
PLAN SYMBOL: ▨
IBC 722.3.2

3 1 HR RATED FIRE BARRIER - 4"
PLAN SYMBOL: ▬ ▪ ▪ ▬
UL DESIGN U419

4 STORAGE UNIT PARTITION
PLAN SYMBOL: ═

8 A5.3 PARTITION TYPES

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

SCOTT D. STINARD
032362-1

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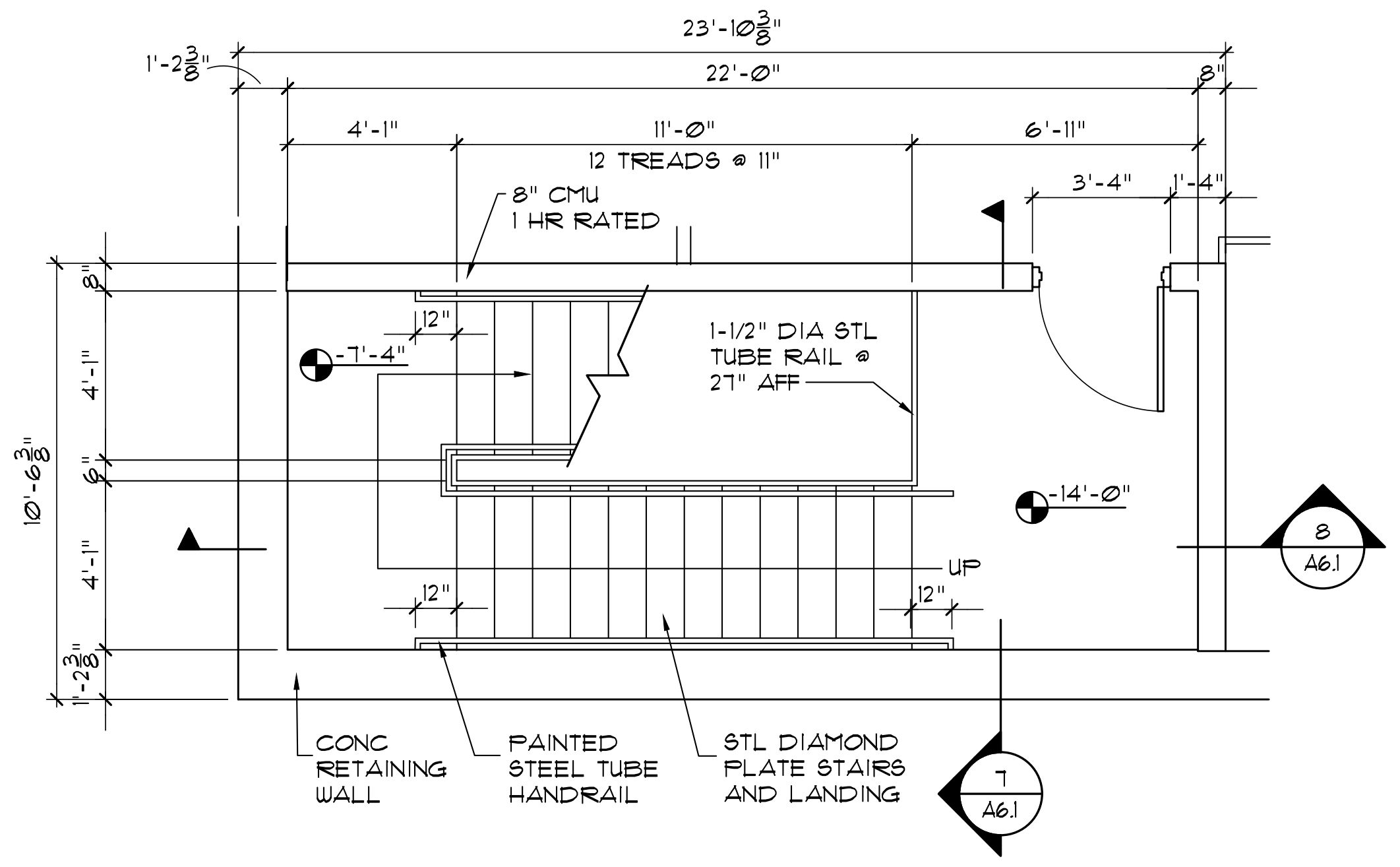
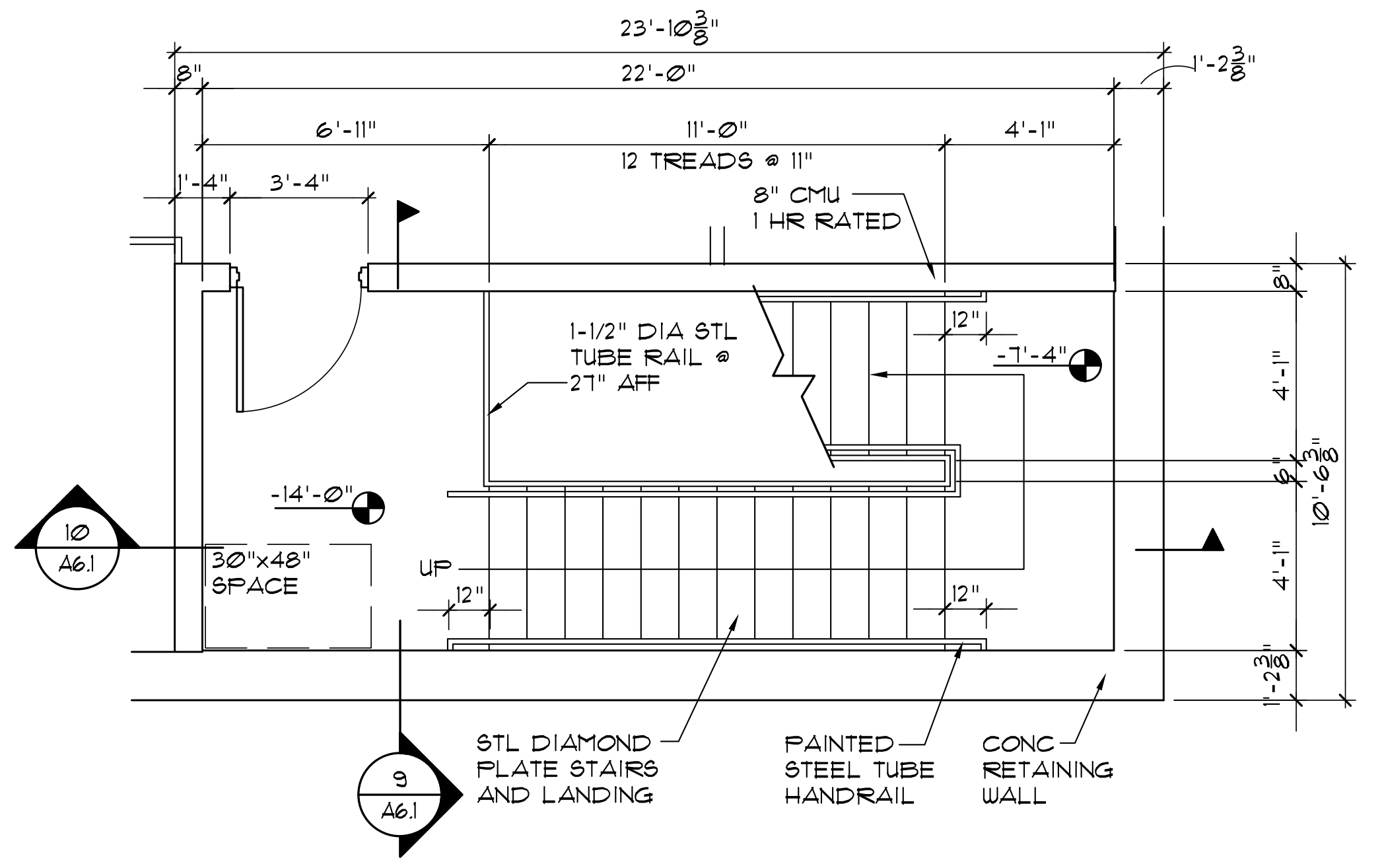
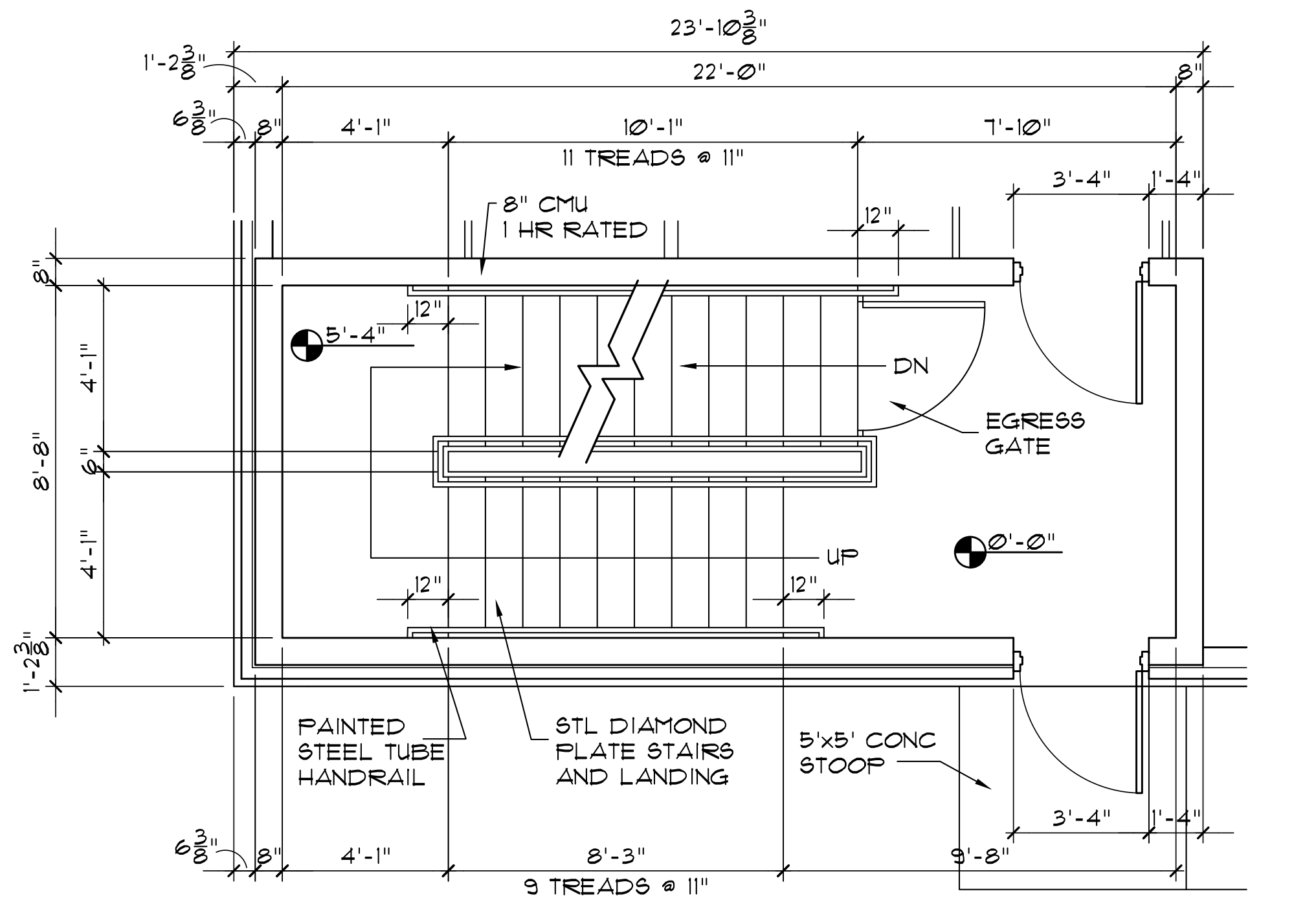


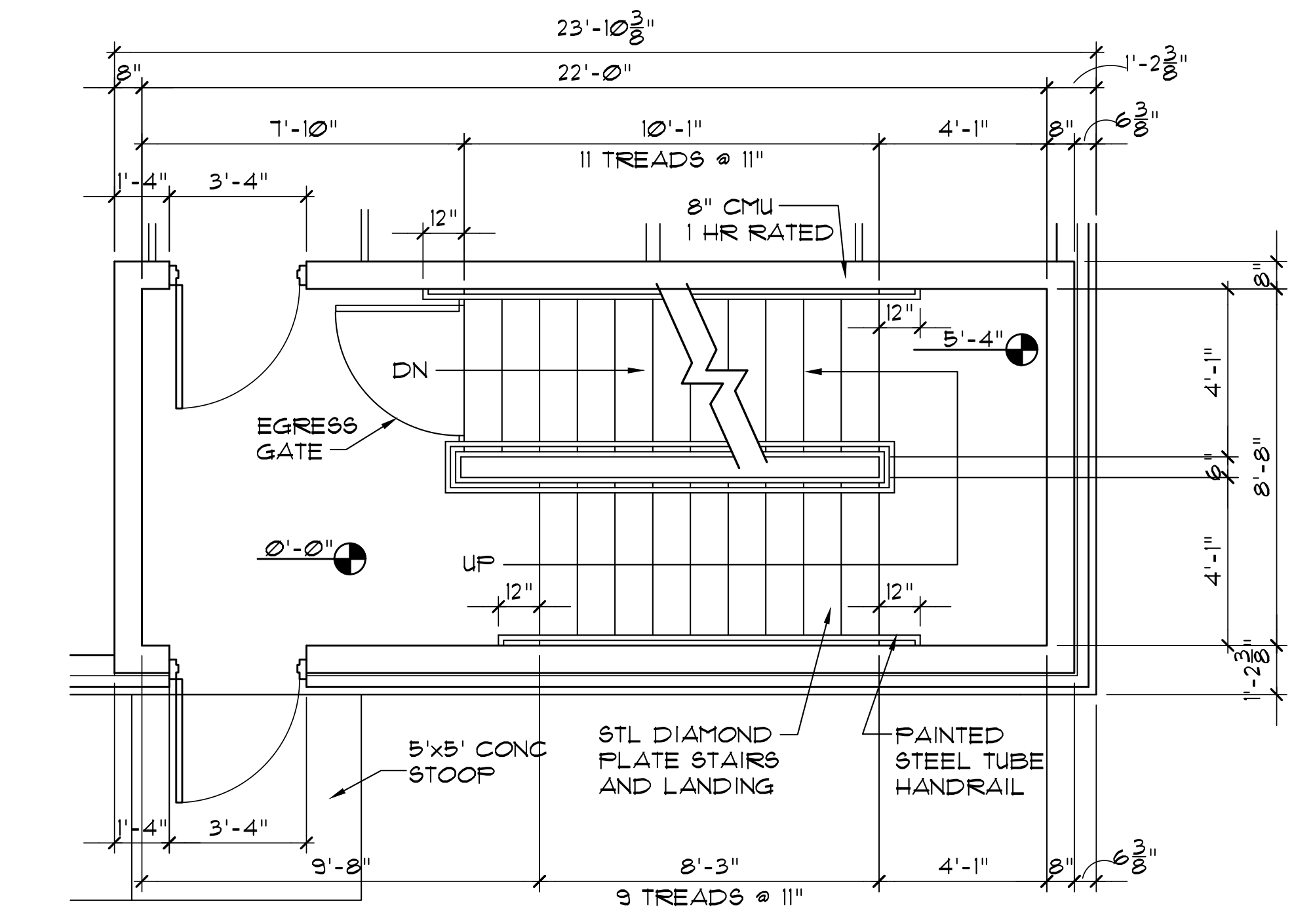
1 A6.1 LOWER LEVEL PLAN - STAIR 1
SCALE: 1/4"=1'-0"



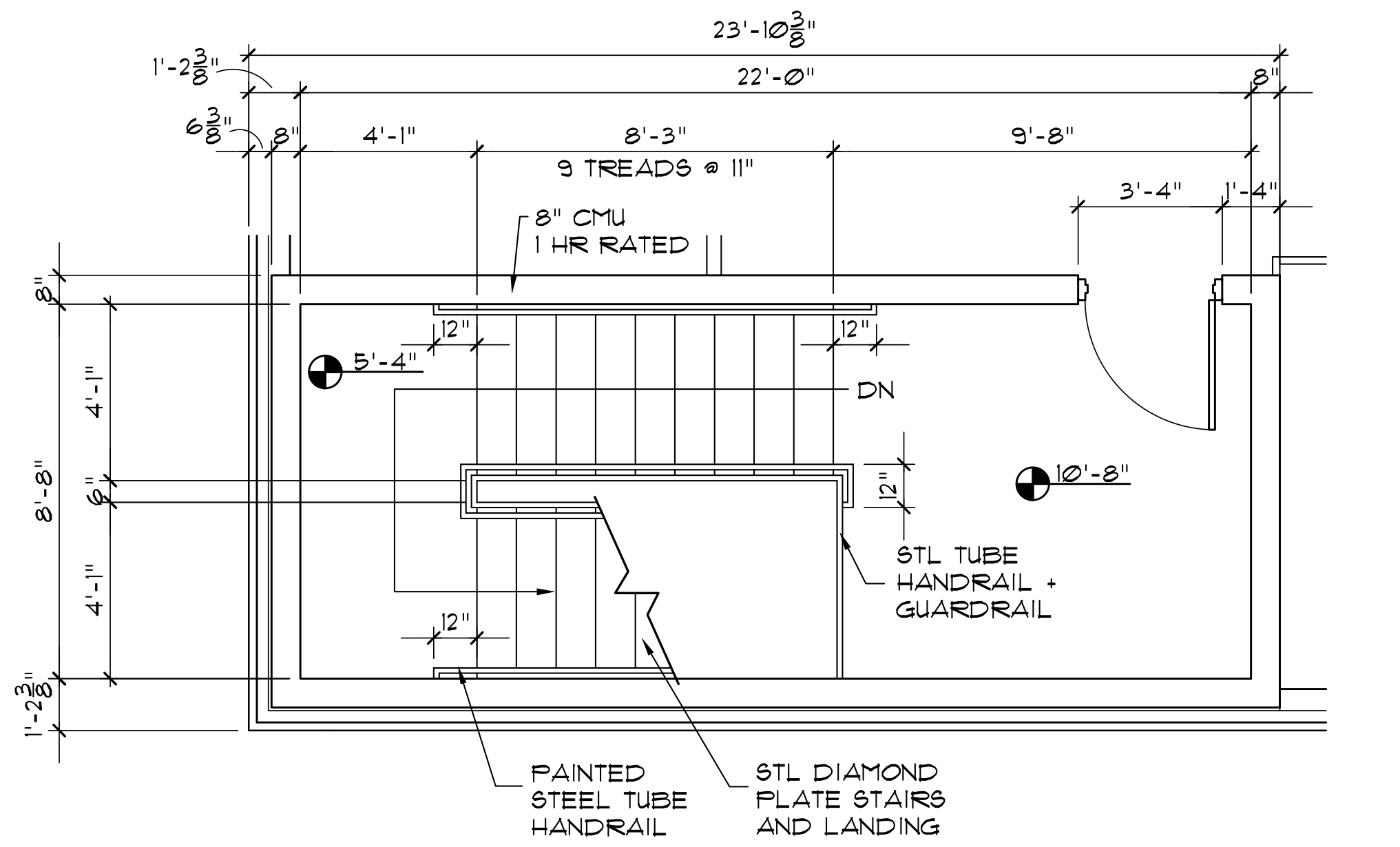
4 A6.1 LOWER LEVEL PLAN - STAIR 2
SCALE: 1/4"=1'-0"



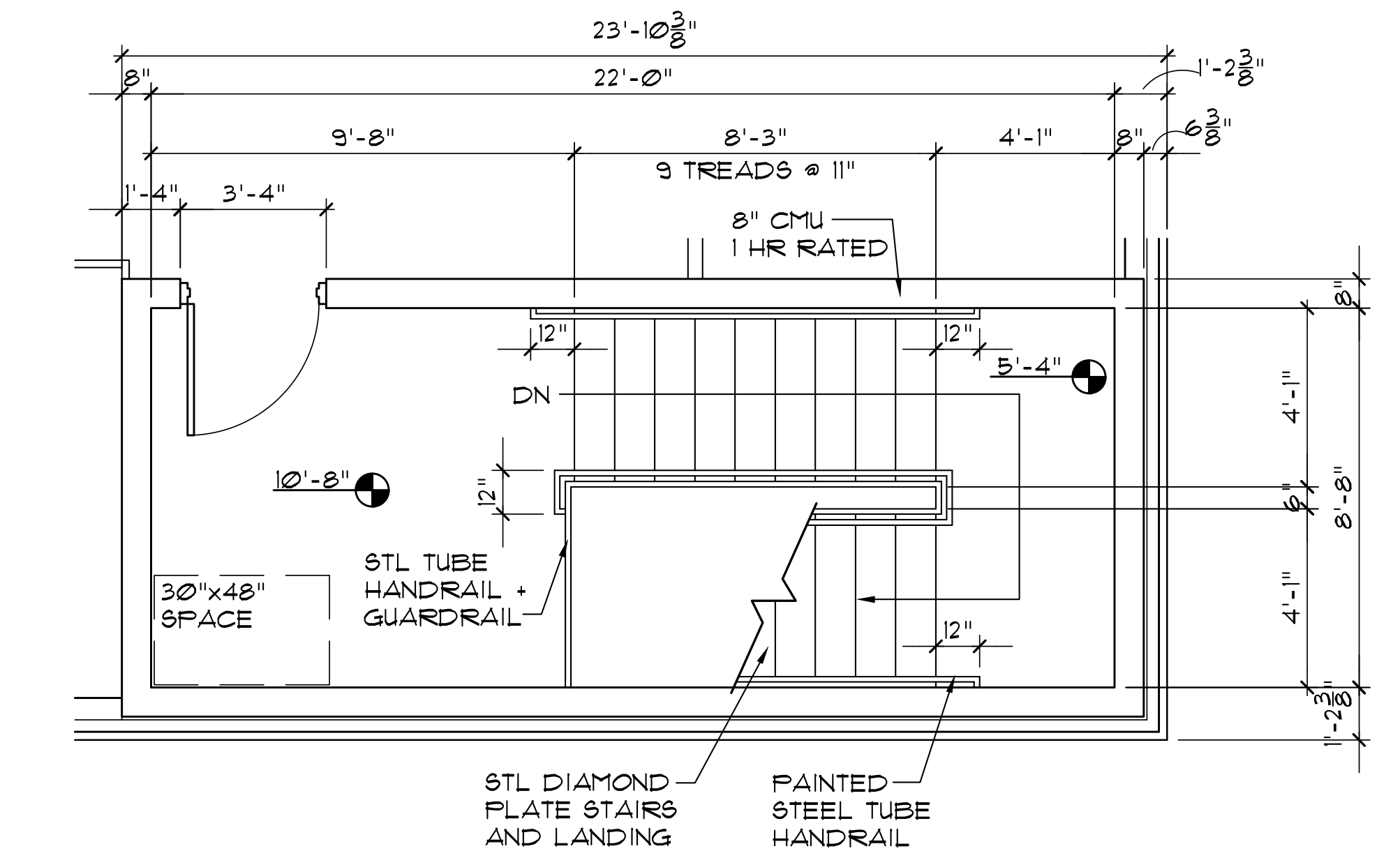
2 A6.1 FIRST FLOOR PLAN - STAIR 1
SCALE: 1/4"=1'-0"



5 A6.1 FIRST FLOOR PLAN - STAIR 2
SCALE: 1/4"=1'-0"

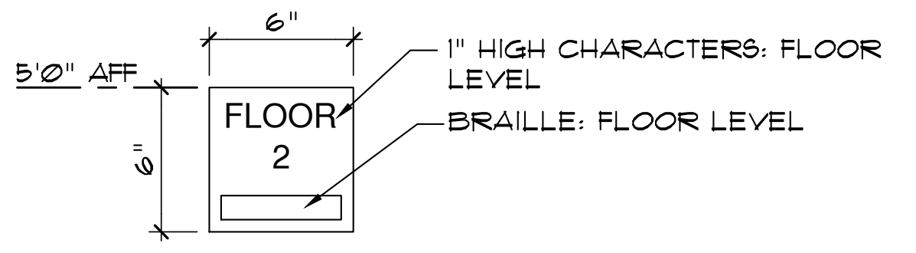


3 A6.1 SECOND FLOOR PLAN - STAIR 1
SCALE: 1/4"=1'-0"



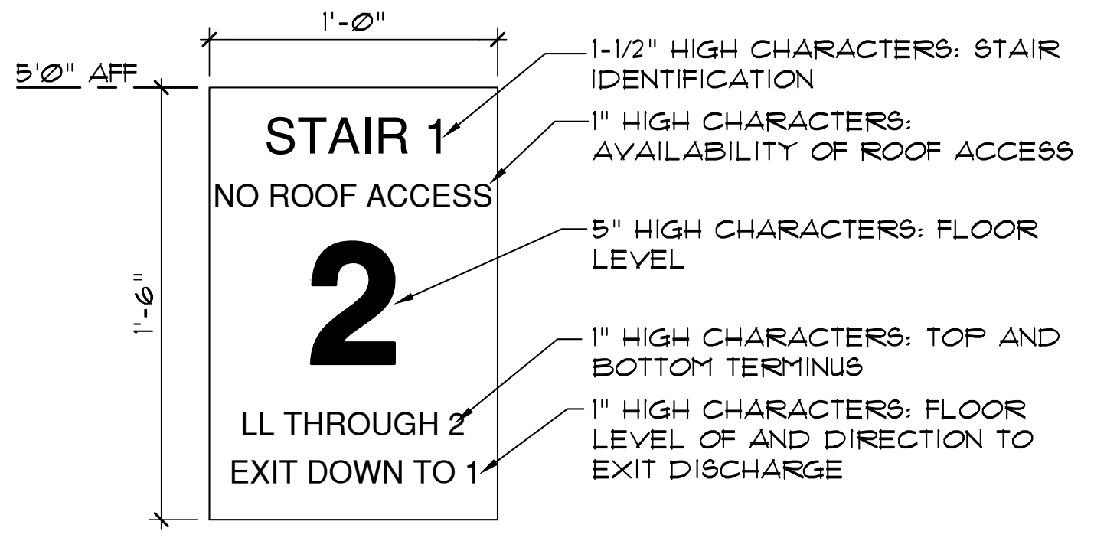
6 A6.1 SECOND FLOOR PLAN - STAIR 2
SCALE: 1/4"=1'-0"

STAIR SHAFT MASONRY IS DIMENSIONED TO FACE OF CMU UNLESS OTHERWISE INDICATED. MASONRY WALL THICKNESS DIMENSIONS ARE NOMINAL. HOLD OUTSIDE STAIR SHAFT DIMENSIONS.



NOTE: PROVIDE ADA COMPLIANT SIGN WITH MIN 1/32" RAISED CHARACTERS AND BRAILLE AT EACH STAIR FLOOR LANDING DOOR, LEADING FROM THE STAIR TO THE CORRIDOR, MOUNTED ADJACENT TO THE STRIKE JAMB

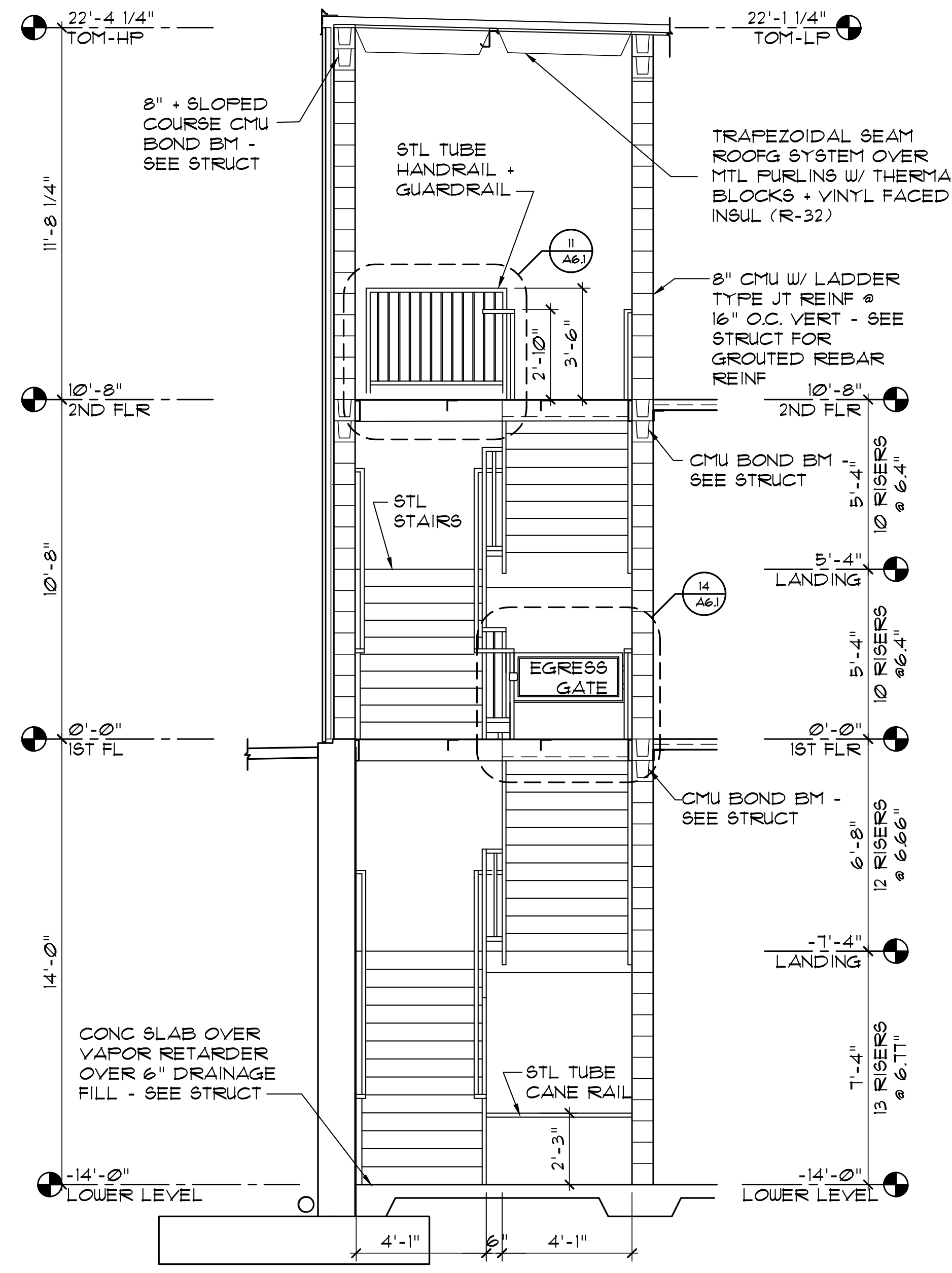
FLOOR LEVEL SIGN


1'-0"
5'0" AFF
1'-6"
STAIR 1
NO ROOF ACCESS
2
LL THROUGH 2
EXIT DOWN TO 1
1-1/2" HIGH CHARACTERS: STAIR IDENTIFICATION
1" HIGH CHARACTERS: AVAILABILITY OF ROOF ACCESS
5" HIGH CHARACTERS: FLOOR LEVEL
1" HIGH CHARACTERS: TOP AND BOTTOM TERMINUS
1" HIGH CHARACTERS: FLOOR LEVEL OF AND DIRECTION TO EXIT DISCHARGE

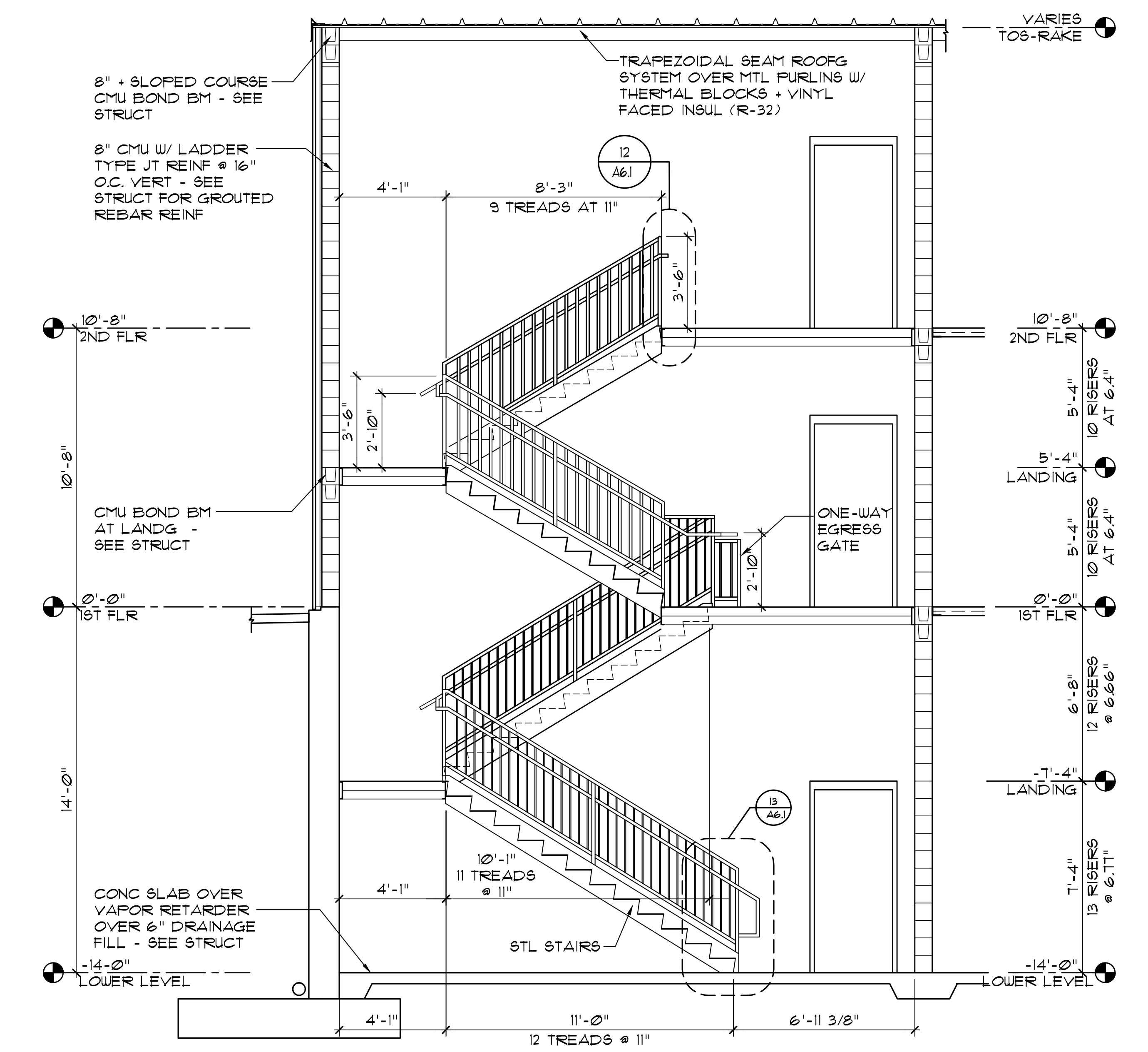
NOTE: PROVIDE ADA COMPLIANT SIGN WITH MIN 1/32" RAISED CHARACTERS AT EACH STAIR FLOOR LANDING, MOUNTED IN CENTER OF FLOOR LANDING WALL CLEAR OF DOOR SWINGS

STAIR IDENTIFICATION SIGN

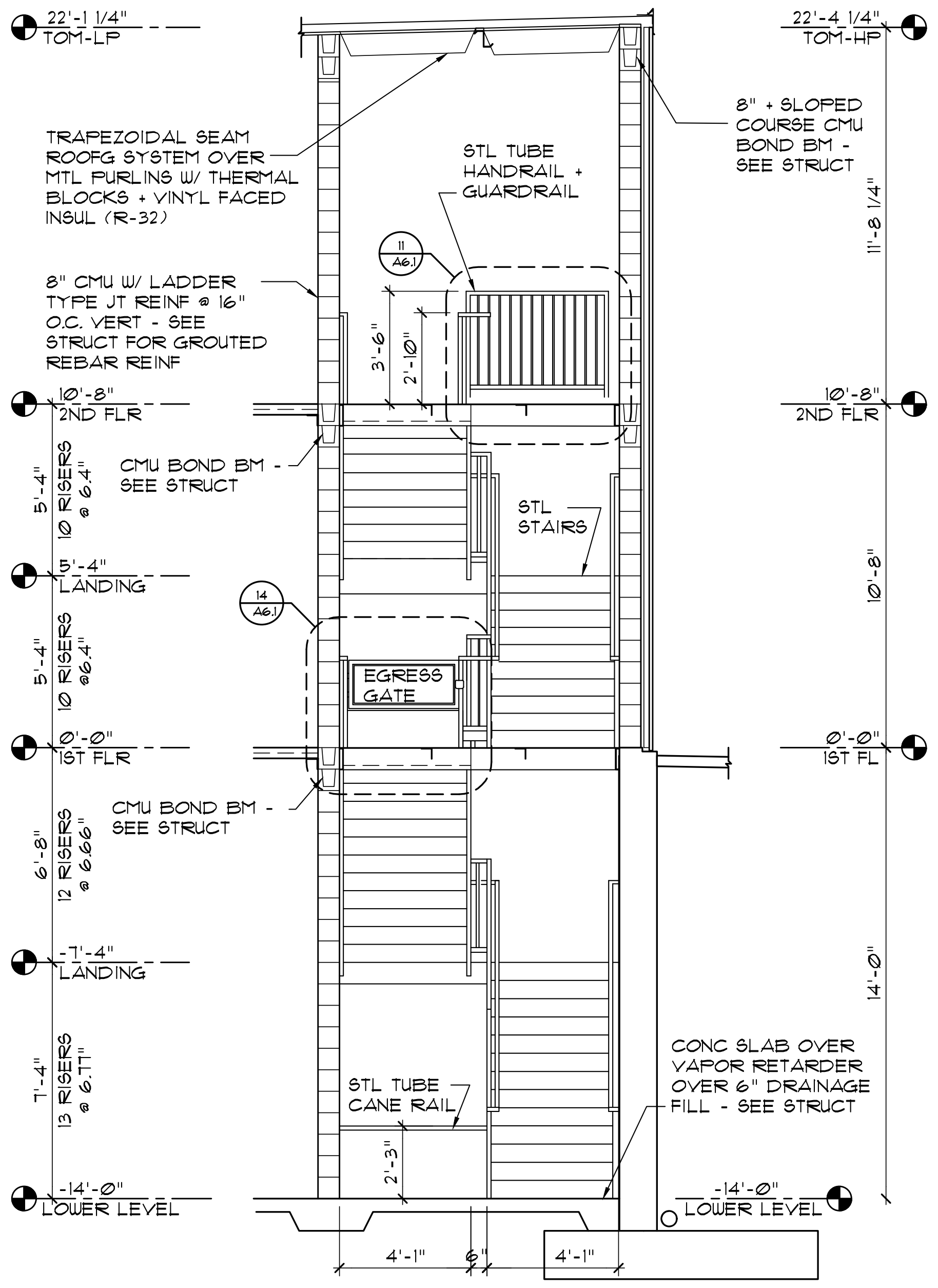
15 A6.1 STAIR SIGNAGE
SCALE: 1-1/2"=1'-0"


22'-4 1/4"
TOM-HP
22'-1 1/4"
TOM-LP
8" + SLOPED COURSE CMU BOND BM - SEE STRUCT
STL TUBE HANDRAIL + GUARDRAIL
TRAPEZOIDAL SEAM ROOFG SYSTEM OVER MTL PURLINS W/ THERMAL BLOCKS + VINYL FACED INSUL (R-32)
11
A6.1
8" CMU W/ LADDER TYPE JT REINF @ 16" O.C. VERT - SEE STRUCT FOR GROUTED REBAR REINF
2'-10"
3'-6"
11'-8 1/4"
10'-8"
2ND FLR
CMU BOND BM - SEE STRUCT
STL STAIRS
5'-4"
10 RISERS @ 6.4"
5'-4"
LANDING
14
A6.1
EGRESS GATE
0'-0"
1ST FL
1ST FLR
6'-8"
12 RISERS @ 6.66"
-7'-4"
LANDING
14'-0"
CONC SLAB OVER VAPOR RETARDER OVER 6" DRAINAGE FILL - SEE STRUCT
STL TUBE CANE RAIL
2'-3"
7'-4"
13 RISERS @ 6.77"
-14'-0"
LOWER LEVEL
4'-1"
6"
4'-1"

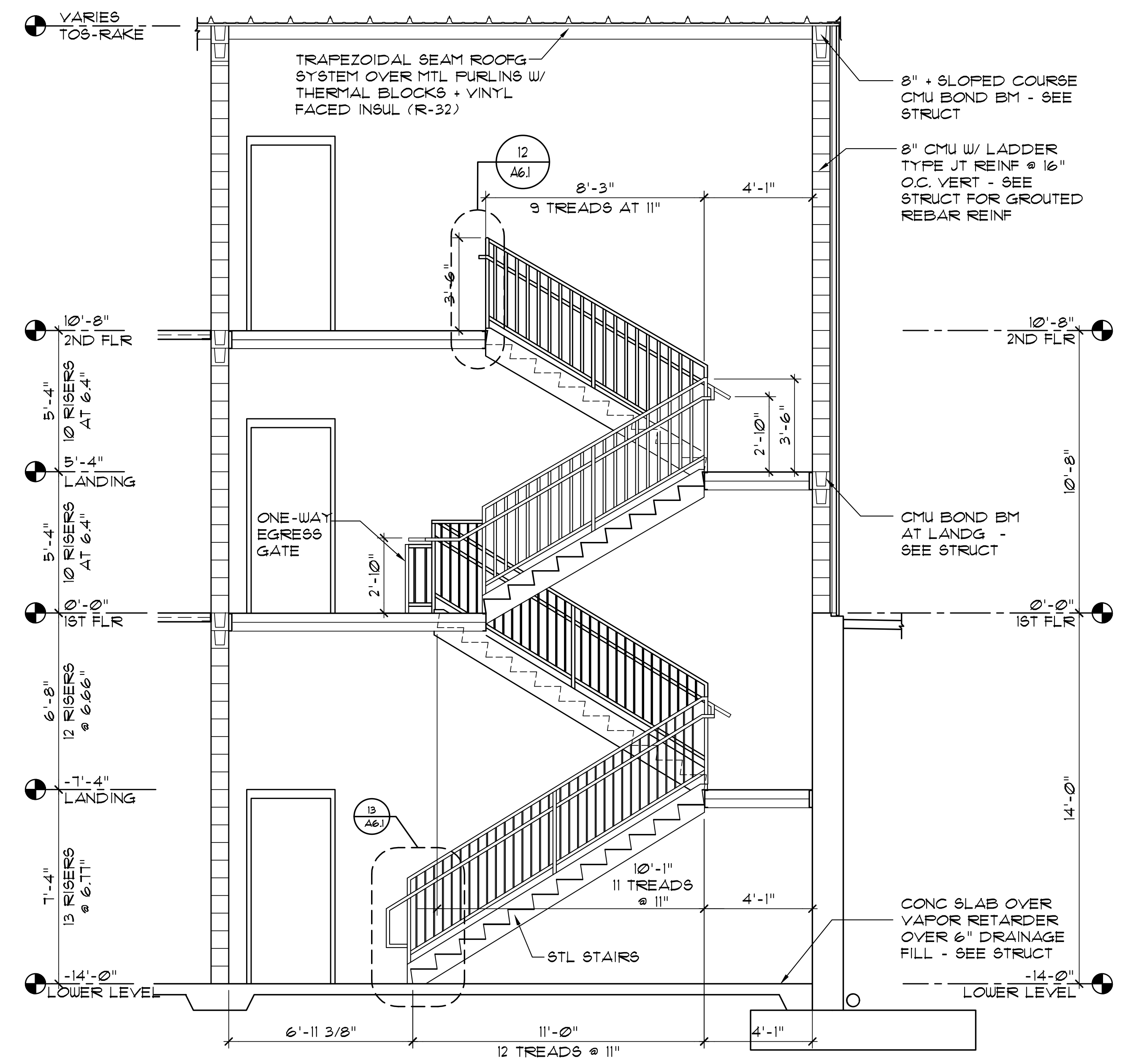
7 A6.1 STAIR 1 SECTION
SCALE: 1/4"=1'-0"


VARIES
TOS-RAKE
8" + SLOPED COURSE CMU BOND BM - SEE STRUCT
TRAPEZOIDAL SEAM ROOFG SYSTEM OVER MTL PURLINS W/ THERMAL BLOCKS + VINYL FACED INSUL (R-32)
8" CMU W/ LADDER TYPE JT REINF @ 16" O.C. VERT - SEE STRUCT FOR GROUTED REBAR REINF
12
A6.1
4'-1"
8'-3"
9 TREADS AT 11"
3'-6"
10'-8"
2ND FLR
2'-10"
5'-4"
10 RISERS AT 6.4"
5'-4"
LANDING
CMU BOND BM AT LANDG - SEE STRUCT
ONE-WAY EGRESS GATE
0'-0"
1ST FLR
6'-8"
12 RISERS @ 6.66"
-7'-4"
LANDING
14'-0"
13
A6.1
10'-1"
11 TREADS @ 11"
CONC SLAB OVER VAPOR RETARDER OVER 6" DRAINAGE FILL - SEE STRUCT
STL STAIRS
7'-4"
13 RISERS @ 6.77"
-14'-0"
LOWER LEVEL
4'-1"
11'-0"
12 TREADS @ 11"
6'-11 3/8"

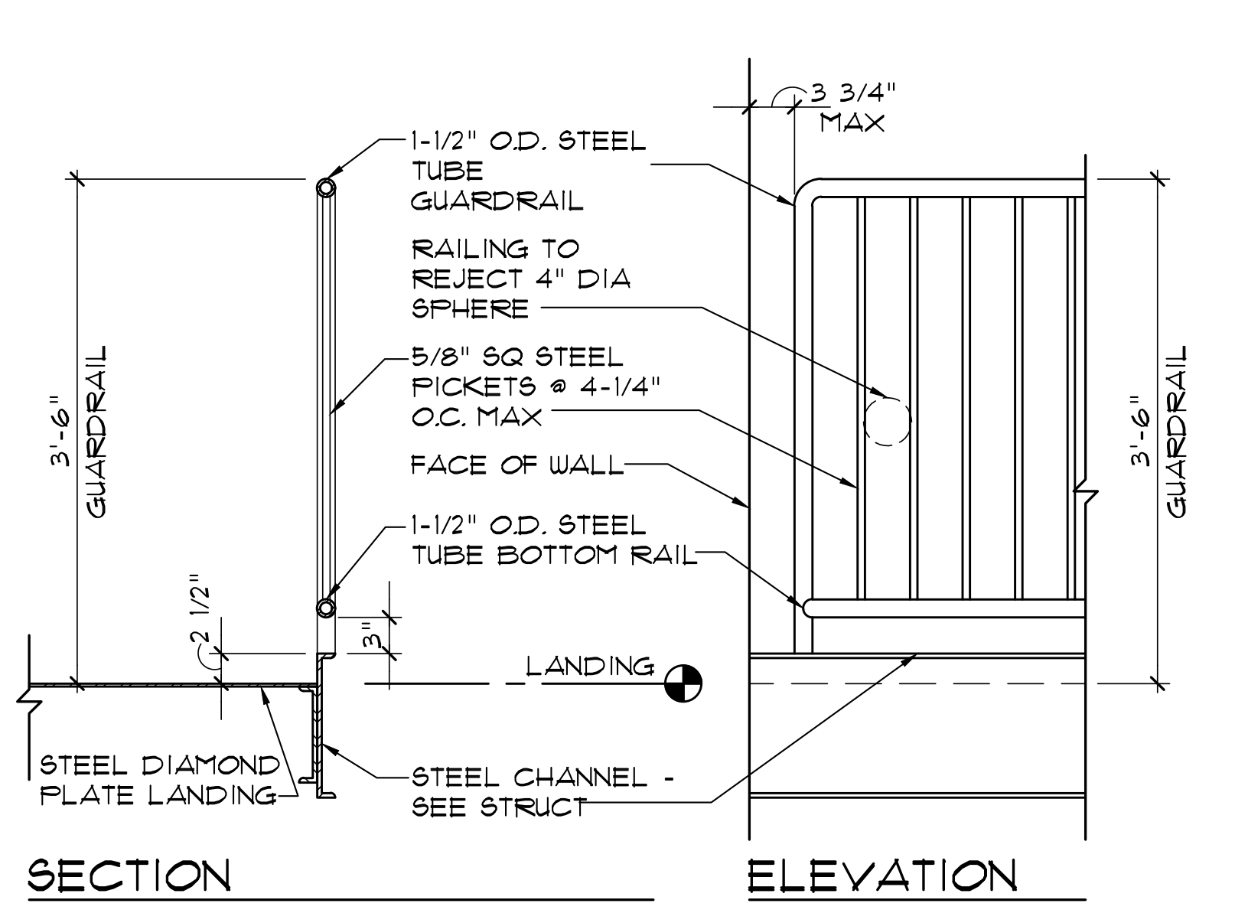
8 A6.1 STAIR 1 SECTION
SCALE: 1/4"=1'-0"



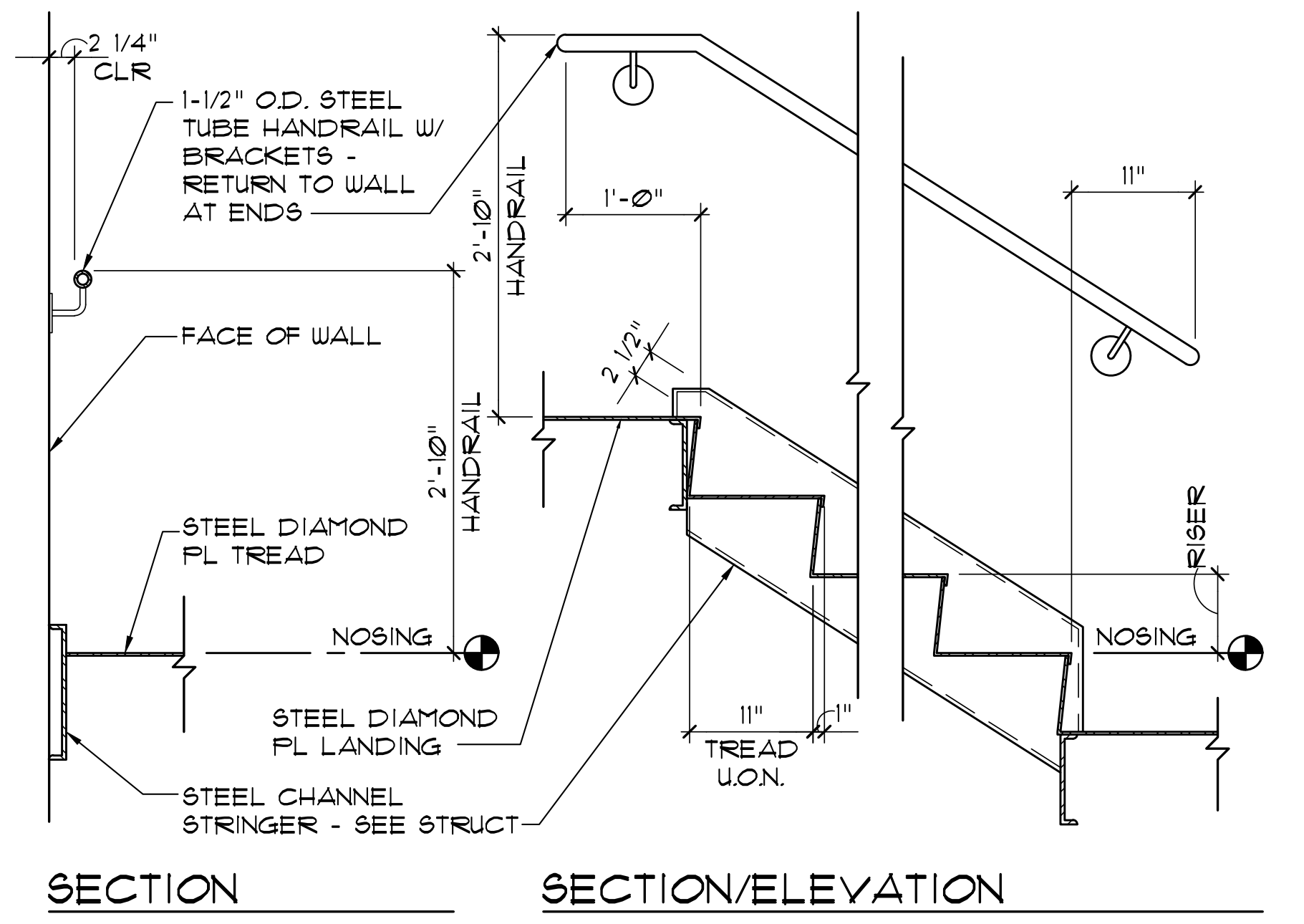
9 A6.1 STAIR 2 SECTION
SCALE: 1/4"=1'-0"


VARIES
TOS-RAKE
TRAPEZOIDAL SEAM ROOFG SYSTEM OVER MTL PURLINS W/ THERMAL BLOCKS + VINYL FACED INSUL (R-32)
8" + SLOPED COURSE CMU BOND BM - SEE STRUCT
8" CMU W/ LADDER TYPE JT REINF @ 16" O.C. VERT - SEE STRUCT FOR GROUTED REBAR REINF
12
A6.1
8'-3"
9 TREADS AT 11"
4'-1"
3'-6"
10'-8"
2ND FLR
5'-4"
10 RISERS AT 6.4"
2'-10"
3'-6"
5'-4"
LANDING
CMU BOND BM AT LANDG - SEE STRUCT
ONE-WAY EGRESS GATE
2'-10"
0'-0"
1ST FLR
6'-8"
12 RISERS @ 6.66"
-7'-4"
LANDING
14'-0"
13
A6.1
10'-1"
11 TREADS @ 11"
4'-1"
CONC SLAB OVER VAPOR RETARDER OVER 6" DRAINAGE FILL - SEE STRUCT
STL STAIRS
7'-4"
13 RISERS @ 6.77"
-14'-0"
LOWER LEVEL
6'-11 3/8"
11'-0"
12 TREADS @ 11"
4'-1"

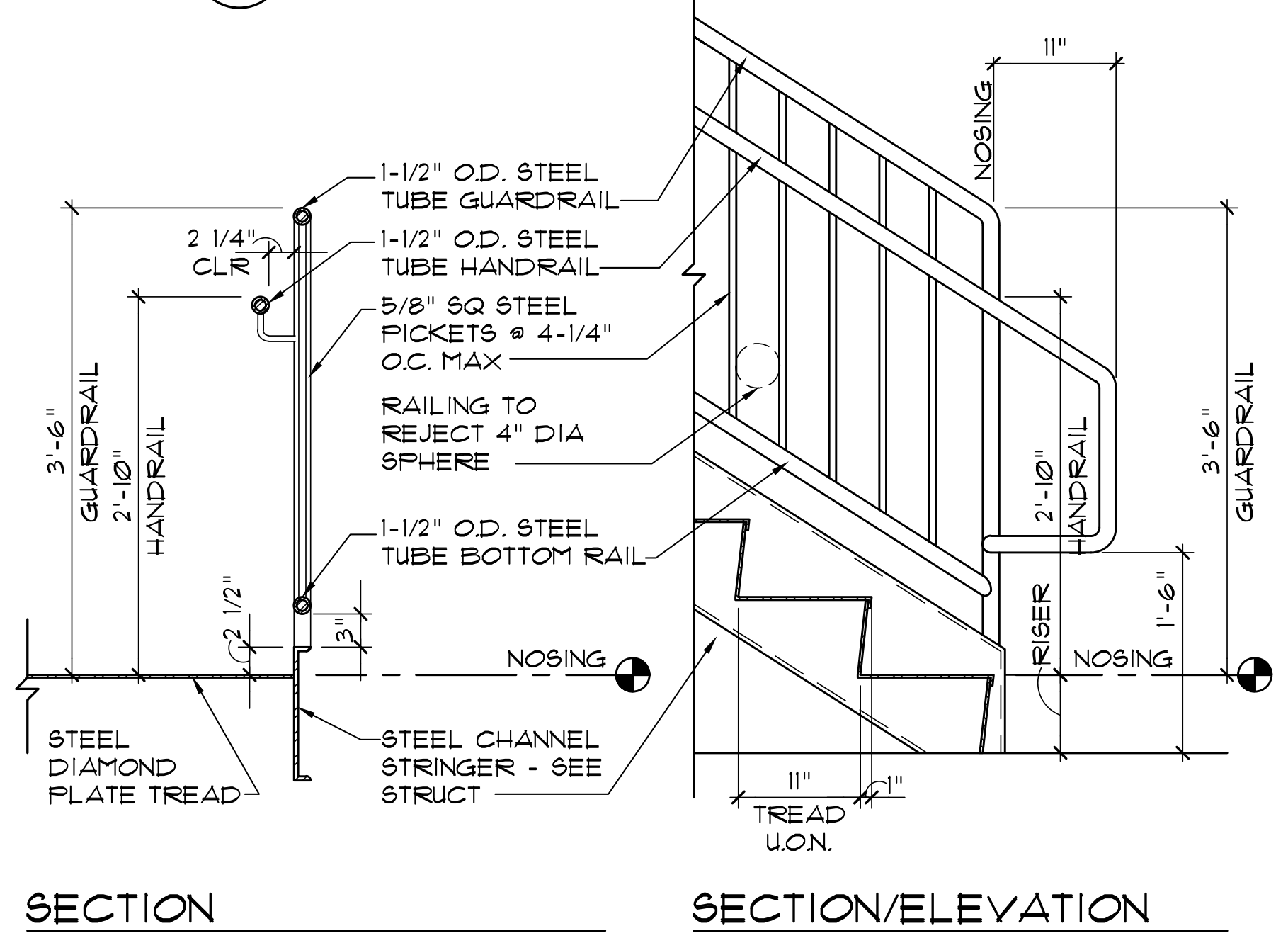
10 A6.1 STAIR 2 SECTION
SCALE: 1/4"=1'-0"


1-1/2" O.D. STEEL TUBE GUARDRAIL
RAILING TO REJECT 4" DIA SPHERE
5/8" SQ STEEL PICKETS @ 4-1/4" O.C. MAX
FACE OF WALL
1-1/2" O.D. STEEL TUBE BOTTOM RAIL
3 3/4" MAX
3'-6" GUARDRAIL
2 1/2"
3"
LANDING
STEEL DIAMOND PLATE LANDING
STEEL CHANNEL - SEE STRUCT
SECTION
ELEVATION

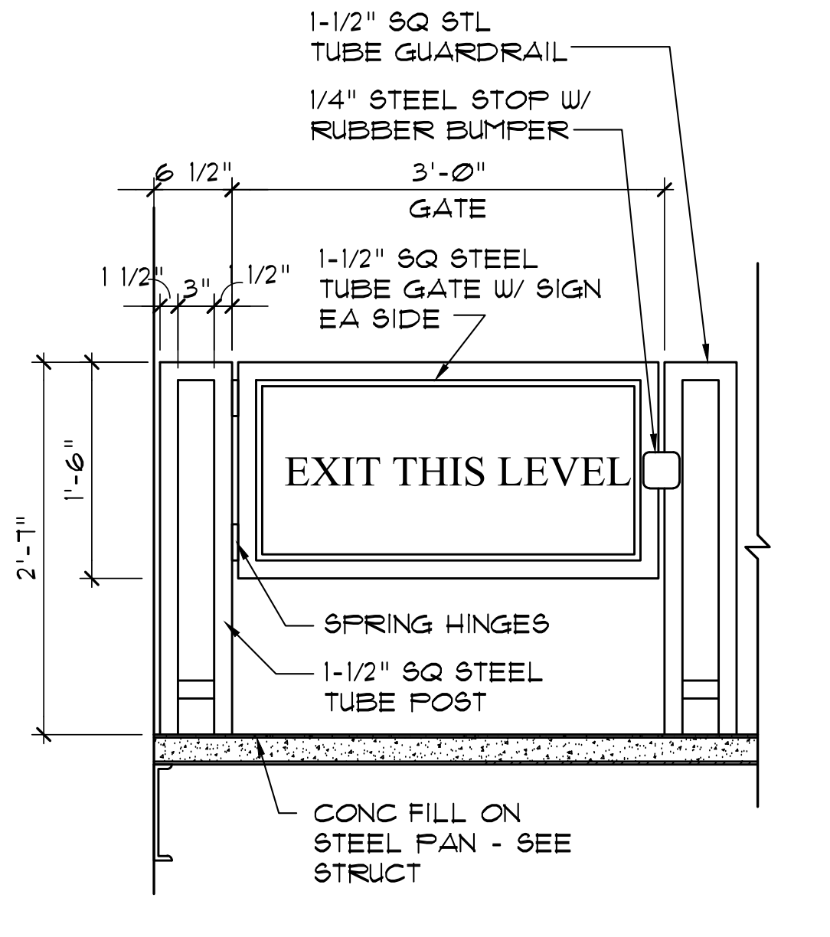
11 A6.1 GUARDRAIL AND LANDING DETAIL
SCALE: 3/4"=1'-0"



12 A6.1 WALL RAIL AND STAIR DETAIL
SCALE: 3/4"=1'-0"


1-1/2" O.D. STEEL TUBE GUARDRAIL
1-1/2" O.D. STEEL TUBE HANDRAIL
5/8" SQ STEEL PICKETS @ 4-1/4" O.C. MAX
RAILING TO REJECT 4" DIA SPHERE
1-1/2" O.D. STEEL TUBE BOTTOM RAIL
2 1/4" CLR
3'-6" GUARDRAIL
2'-10" HANDRAIL
2 1/2"
3"
NOSING
11"
RISER
1'-6"
STEEL DIAMOND PLATE TREAD
STEEL CHANNEL STRINGER - SEE STRUCT
11"
1"
TREAD U.O.N.
SECTION
SECTION/ELEVATION

13 A6.1 GUARDRAIL AND STAIR DETAIL
SCALE: 3/4"=1'-0"


1-1/2" SQ STL TUBE GUARDRAIL
1/4" STEEL STOP W/ RUBBER BUMPER
6 1/2"
3'-0" GATE
1 1/2"
3"
1 1/2"
1-1/2" SQ STEEL TUBE GATE W/ SIGN EA SIDE
EXIT THIS LEVEL
1'-6"
2'-7"
SPRING HINGES
1-1/2" SQ STEEL TUBE POST
CONC FILL ON STEEL PAN - SEE STRUCT

14 A6.1 ONE WAY EGRESS GATE
SCALE: 3/4"=1'-0"

REGISTERED ARCHITECT
SCOTT D. STINARD
032362-1
STATE OF NEW YORK

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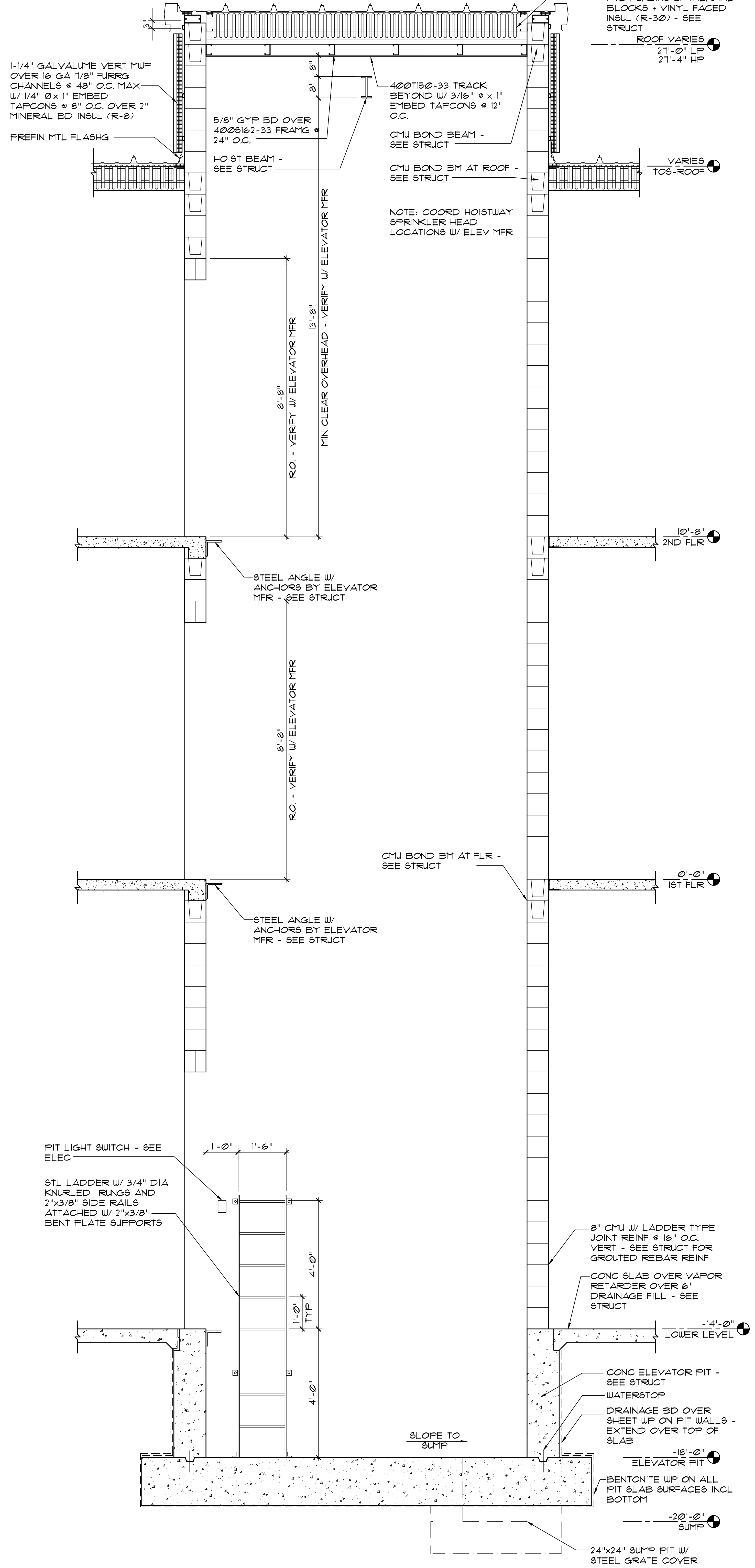
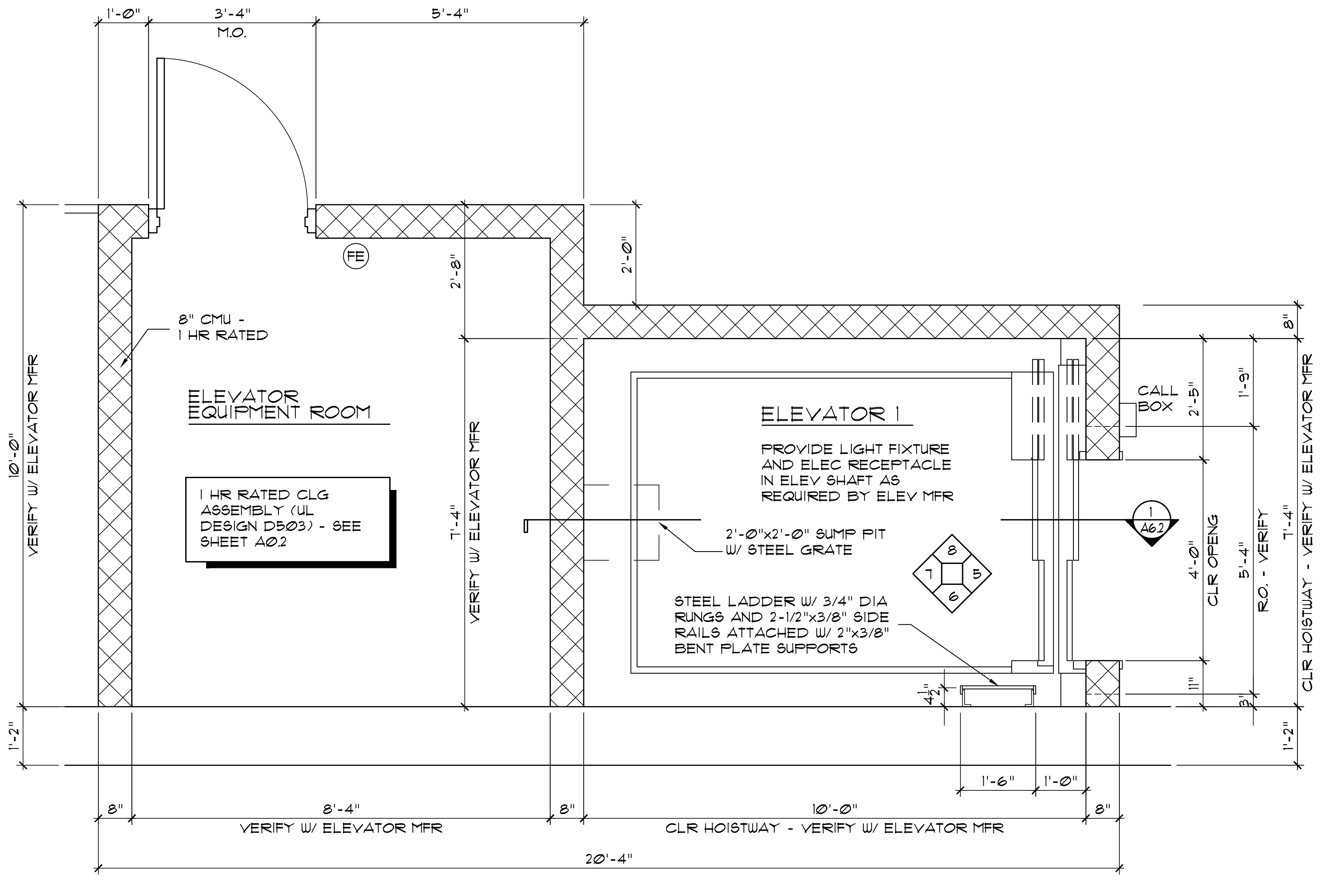
ISSUE: FOR CONSTRUCTION
REVISIONS:

PROJECT NUMBER 201941
DATE 9-28-22

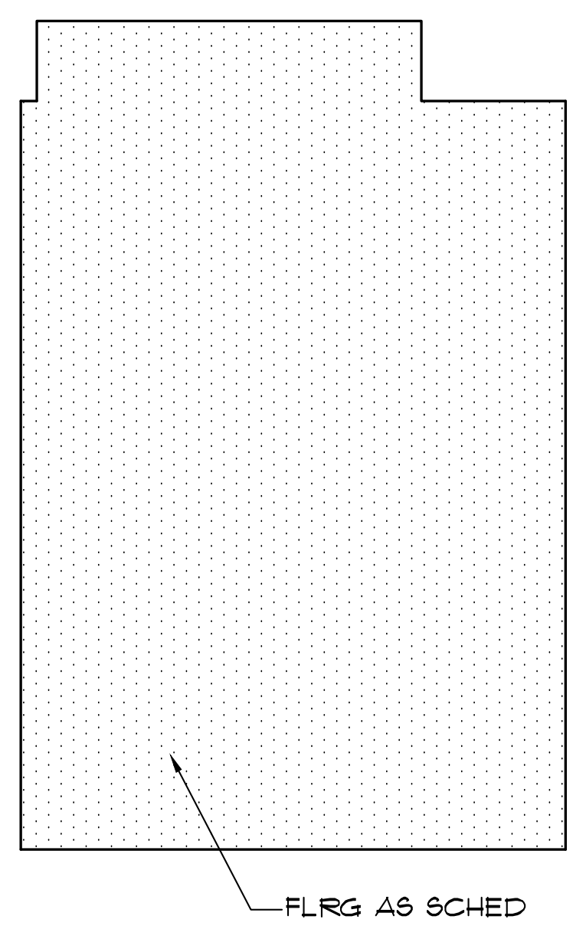
SHEET NUMBER
A6.1


TRAPEZOIDAL SEAM ROOFG SYSTEM OVER MTL PURLINS W/ THERMAL BLOCKS + VINYL FACED INSUL (R-30) - SEE STRUCT
ROOF VARIES
27'-0" LP
27'-4" HP
1-1/4" GALVALUME VERT MWP OVER 16 GA 7/8" FURRG CHANNELS @ 48" O.C. MAX W/ 1/4" Ø x 1" EMBED TAPCONS @ 8" O.C. OVER 2" MINERAL BD INSUL (R-8)
PREFIN MTL FLASHG
3"
8"
8"
5/8" GYP BD OVER 400S162-33 FRAMG @ 24" O.C.
HOIST BEAM - SEE STRUCT
400T150-33 TRACK BEYOND W/ 3/16" Ø x 1" EMBED TAPCONS @ 12" O.C.
CMU BOND BEAM - SEE STRUCT
CMU BOND BM AT ROOF - SEE STRUCT
VARIES
TOS-ROOF
NOTE: COORD HOISTWAY SPRINKLER HEAD LOCATIONS W/ ELEV MFR
13'-8" MIN CLEAR OVERHEAD - VERIFY W/ ELEVATOR MFR
8'-8" R.O. - VERIFY W/ ELEVATOR MFR
10'-8"
2ND FLR
STEEL ANGLE W/ ANCHORS BY ELEVATOR MFR - SEE STRUCT
8'-8" R.O. - VERIFY W/ ELEVATOR MFR
CMU BOND BM AT FLR - SEE STRUCT
0'-0"
1ST FLR
STEEL ANGLE W/ ANCHORS BY ELEVATOR MFR - SEE STRUCT
PIT LIGHT SWITCH - SEE ELEC
1'-0"
1'-6"
STL LADDER W/ 3/4" DIA KNURLED RUNGS AND 2"x3/8" SIDE RAILS ATTACHED W/ 2"x3/8" BENT PLATE SUPPORTS
4'-0"
1'-0" TYP
4'-0"
8" CMU W/ LADDER TYPE JOINT REINF @ 16" O.C. VERT - SEE STRUCT FOR GROUTED REBAR REINF
CONC SLAB OVER VAPOR RETARDER OVER 6" DRAINAGE FILL - SEE STRUCT
-14'-0"
LOWER LEVEL
CONC ELEVATOR PIT - SEE STRUCT
WATERSTOP
DRAINAGE BD OVER SHEET WP ON PIT WALLS - EXTEND OVER TOP OF SLAB
SLOPE TO SUMP
-18'-0"
ELEVATOR PIT
BENTONITE WP ON ALL PIT SLAB SURFACES INCL BOTTOM
-20'-0"
SUMP
24"x24" SUMP PIT W/ STEEL GRATE COVER

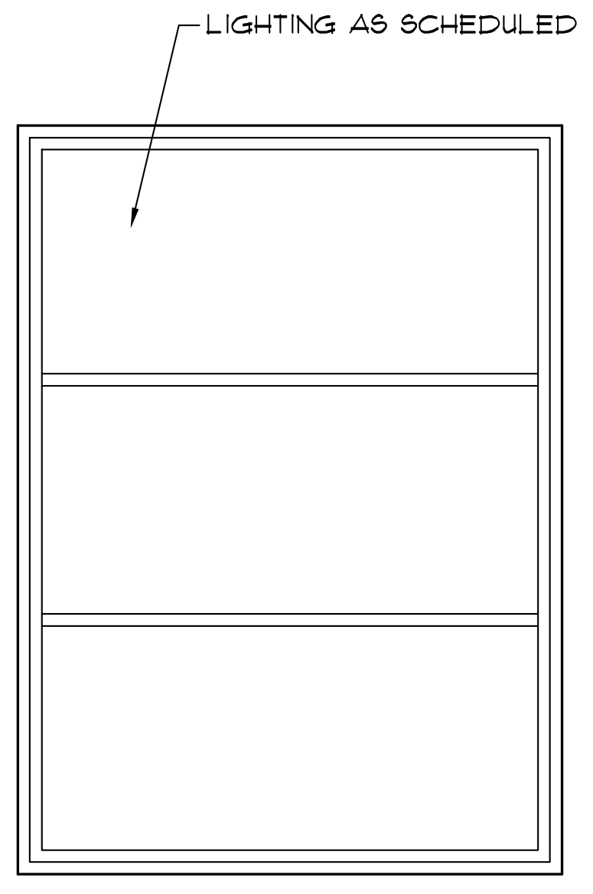
1
A6.2
ELEVATOR HOISTWAY SECTION
SCALE: 1/2"=1'-0"


1'-0"
3'-4"
M.O.
5'-4"
FE
2'-8"
2'-0"
8" CMU - 1 HR RATED
ELEVATOR EQUIPMENT ROOM
1 HR RATED CLG ASSEMBLY (UL DESIGN D503) - SEE SHEET A0.2
10'-0" VERIFY W/ ELEVATOR MFR
7'-4" VERIFY W/ ELEVATOR MFR
ELEVATOR 1
PROVIDE LIGHT FIXTURE AND ELEC RECEPTACLE IN ELEV SHAFT AS REQUIRED BY ELEV MFR
2'-0"x2'-0" SUMP PIT W/ STEEL GRATE
STEEL LADDER W/ 3/4" DIA RUNGS AND 2-1/2"x3/8" SIDE RAILS ATTACHED W/ 2"x3/8" BENT PLATE SUPPORTS
8
7
5
6
1
A6.2
CALL BOX
2'-5"
1'-9"
8"
4'-0" CLR OPENG
5'-4" R.O. - VERIFY
7'-4" CLR HOISTWAY - VERIFY W/ ELEVATOR MFR
11"
3"
4 1/2"
1'-2"
1'-2"
1'-6"
1'-0"
8"
8'-4"
VERIFY W/ ELEVATOR MFR
8"
10'-0"
CLR HOISTWAY - VERIFY W/ ELEVATOR MFR
8"
20'-4"

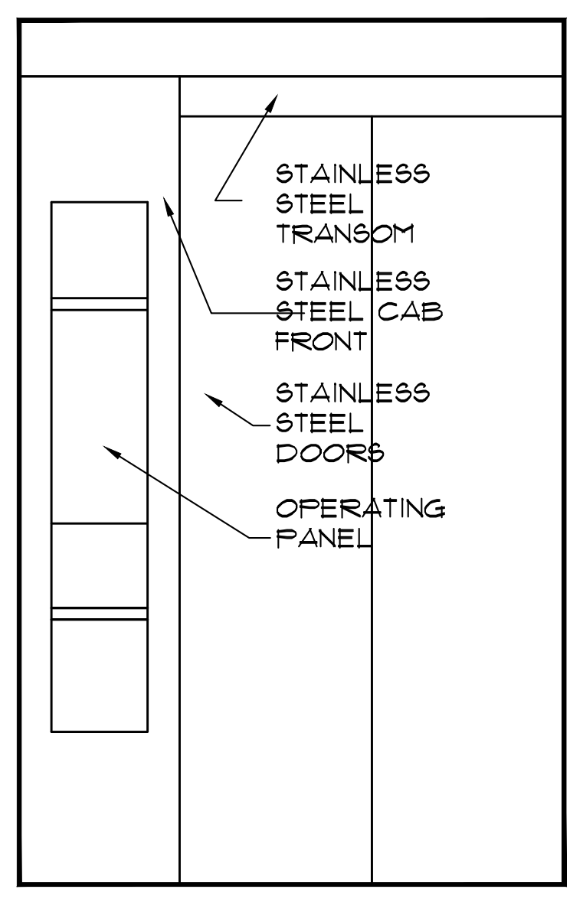
2
A6.2
ELEVATOR AND EQUIPMENT ROOM PLAN
SCALE: 1/2"=1'-0"



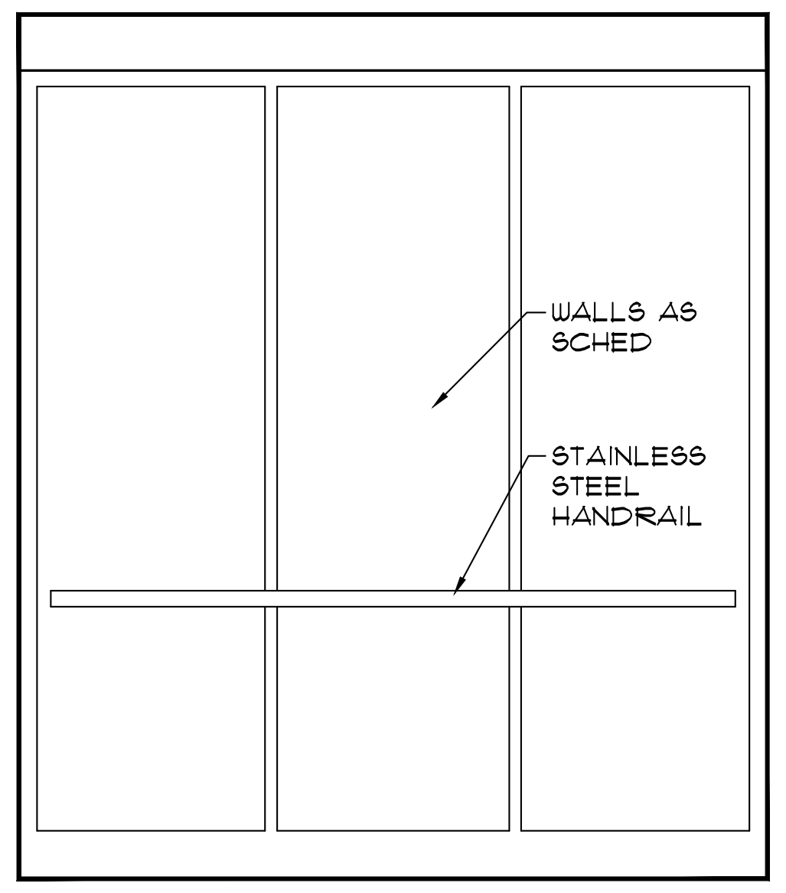
3
A6.2
CAB FLOOR FINISH PLAN
SCALE: 1/2"=1'-0"



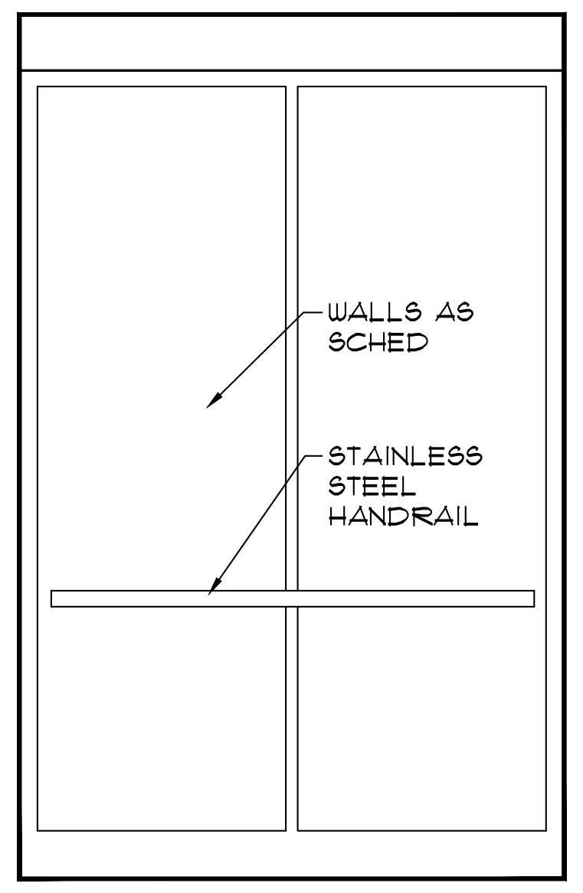
4
A6.2
CAB REFLECTED CLG PLAN
SCALE: 1/2"=1'-0"



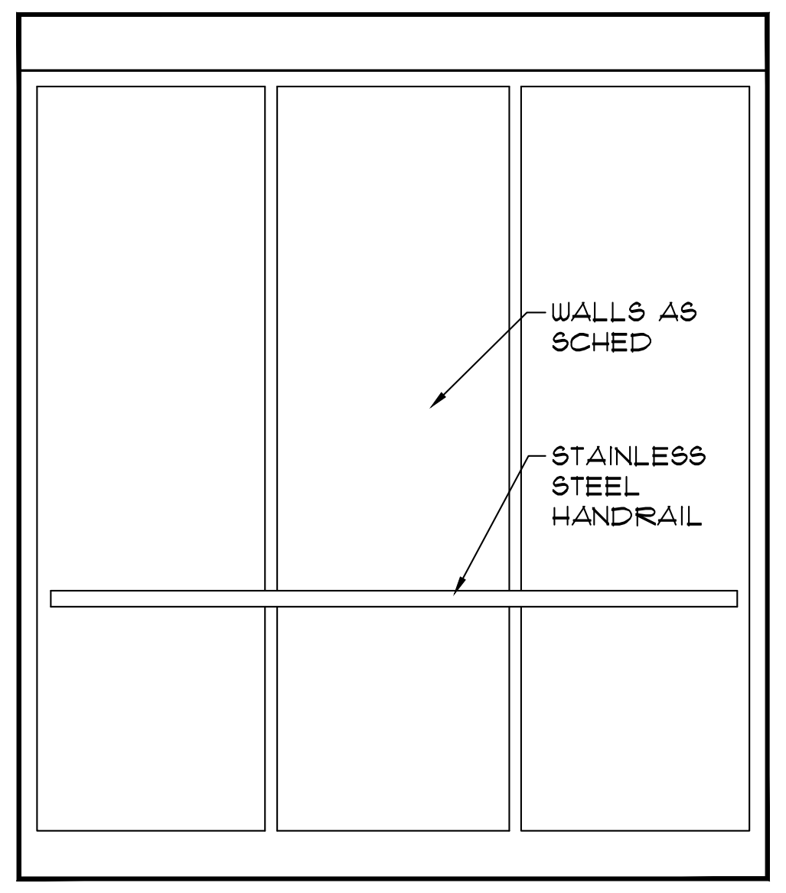
5
A6.2
CAB ELEVATION
SCALE: 1/2"=1'-0"



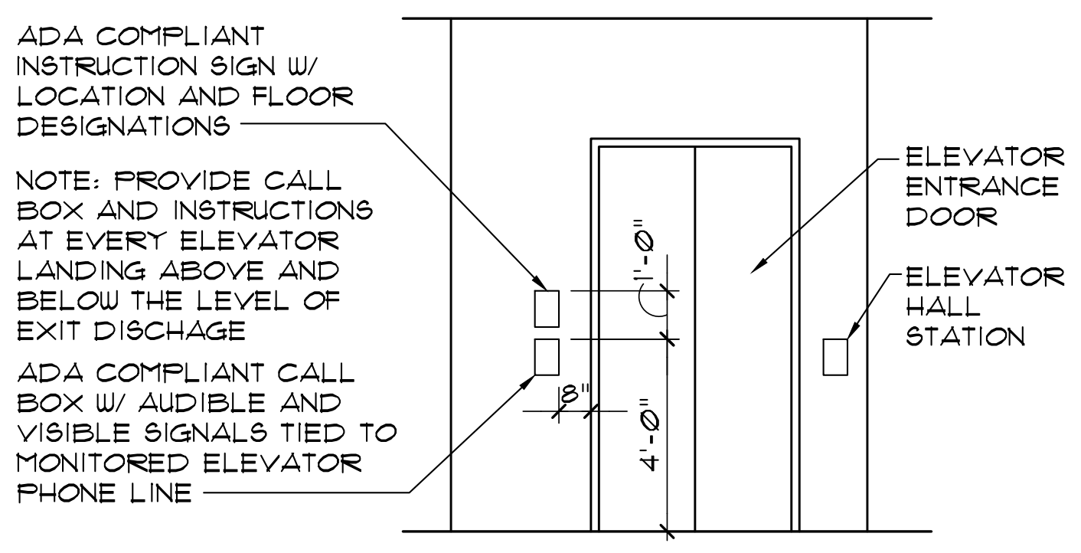
6
A6.2
CAB ELEVATION
SCALE: 1/2"=1'-0"



7
A6.2
CAB ELEVATION
SCALE: 1/2"=1'-0"



8
A6.2
CAB ELEVATION
SCALE: 1/2"=1'-0"


ADA COMPLIANT INSTRUCTION SIGN W/ LOCATION AND FLOOR DESIGNATIONS
NOTE: PROVIDE CALL BOX AND INSTRUCTIONS AT EVERY ELEVATOR LANDING ABOVE AND BELOW THE LEVEL OF EXIT DISCHAGE
ADA COMPLIANT CALL BOX W/ AUDIBLE AND VISIBLE SIGNALS TIED TO MONITORED ELEVATOR PHONE LINE
1'-0"
8"
4'-0"
ELEVATOR ENTRANCE DOOR
ELEVATOR HALL STATION

9
A6.2
ELEVATOR LANDING ELEV
SCALE: 1/4"=1'-0"

G.C. TO COORDINATE SPRINKLER HEAD LOCATIONS AND REQUIREMENTS IN THE ELEVATOR SHAFT AND ELEVATOR MACHINE ROOM W/ ELEVATOR MFR

ELEVATOR SHAFT MASONRY IS DIMENSIONED TO FACE OF CMU UNLESS OTHERWISE INDICATED. MASONRY WALL THICKNESS DIMENSIONS ARE NOMINAL. HOLD INSIDE ELEVATOR SHAFT DIMENSIONS.

ELEVATOR SCHEDULE

BASIS OF DESIGN	
MANUFACTURER	SCHINDLER 330A HYDRAULIC ELEVATOR
ELEVATOR SUMMARY	
CLASSIFICATION	HOSPITAL/SERVICE
JACK SYSTEM	HOLELESS TELESCOPING DUAL JACK
QUANTITY	1
CAPACITY	4500 POUNDS
SPEED	100 FPM
TRAVEL	14'-0"+ 10'-8" = 24'-8"
LANDINGS	3 (3 FRONT /0 REAR OPENINGS)
OPERATION	SELECTIVE COLLECTIVE AUTOMATIC
EMERGENCY RECALL	DESIGNATED LEVEL = 1ST FLR ALTERNATE LEVEL = 2ND FLR
CAB HEIGHT	9'-0"
DOOR OPENINGS	4'-0" WIDE x 8'-0" HIGH
DOOR TYPE	TWO SPEED SIDE OPENING
ENTRANCE RATING	1 HOUR
POWER SUPPLY	SEE ELEC
ELEVATOR CAB FINISHES	
DOORS	#4 STAINLESS STEEL
FRONT RETURN+TRANSOM	#4 STAINLESS STEEL
WALLS	CONCEALED STEEL
WALL PANELS	STAINLESS STEEL 5WL W/ #4 STAINLESS STEEL INLAY
WAINSCOT	NONE
CEILING	SC02 ALUM SUSPENSION SYSTEM WITH LEXAN PANELS
THRESHOLD	ALUMINUM
FINISHED FLOOR	RUBBER TILE FLOORING
HANDRAIL TYPE	FLAT 1/2"x2", #4 STAINLESS STEEL
HANDRAIL LOCATION	1 ROW AT SIDES AND REAR WALL
PROTECTIVE BLANKETS	1 SET
CAB FIXTURES	TYPE HT, BLACK LEXAN W/ #4 STAINLESS STEEL
HOISTWAY ENTRANCE FINISHES	
DOORS AND FRAMES	#4 STAINLESS STEEL
SILLS	ALUMINUM
HALL FIXTURES	TYPE HT - JAMB MOUNTED, BLACK LEXAN W/ #4 STAINLESS STEEL

SCOTT D. STINARD
032362-1

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Self Storage Phase II

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ISSUE: FOR CONSTRUCTION
REVISIONS:

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SHEET NUMBER
A6.2

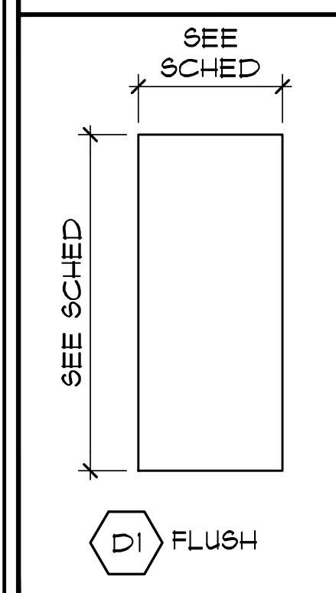
DOOR SCHEDULE

DOOR								FRAME						LABEL	HARDWARE	REMARKS
			DIMENSIONS								DETAILS					
NO.	DESCRIPTION	TYPE	WIDTH	HEIGHT	THICK	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	SILL			
LOWER LEVEL																
102A	ELEVATOR EQUIP	D1	3'-0"	7'-0"	1-3/4"	H.M.	PNT	F2	H.M.	PNT	H-2	J-2	---	1 HR	H-1, L-4, C-2, DS-1, WS-2	
103A	STAIR 1	D1	3'-0"	7'-0"	1-3/4"	H.M.	PNT	F2	H.M.	PNT	H-2	J-2	---	1 HR	H-1, L-1, C-1, DS-1, WS-2	SIGN ③
104A	STAIR 2	D1	3'-0"	7'-0"	1-3/4"	H.M.	PNT	F2	H.M.	PNT	H-2	J-2	---	1 HR	H-1, L-1, C-1, DS-1, WS-2	SIGN ③
1ST FLOOR																
201A	LOADING (EXT)	W1	5'-0"	7'-10"	1-3/4"	ALUM	PREFIN	W1	ALUM	PREFIN	3/A5.1	---	3/A5.1		HARDWARE BY DOOR MFR	AUTO SLIDING DOOR-COORD W/ ELEC
202A	STAIR 1	D1	3'-0"	7'-0"	1-3/4"	H.M.	PNT	F2	H.M.	PNT	H-2	J-2	---	1 HR	H-1, L-1, C-1, DS-1, WS-2	SIGN ①
202B	STAIR 1 (EXT)	D1	3'-0"	7'-0"	1-3/4"	INSUL H.M.	PNT	F2	H.M.	PNT	H-1	J-1	S-1	---	H-2, L-4, C-3, T-1, WS-1	SIGN ①
203A	STAIR 2	D1	3'-0"	7'-0"	1-3/4"	H.M.	PNT	F2	H.M.	PNT	H-2	J-2	---	1 HR	H-1, L-1, C-1, DS-1, WS-2	SIGN ①
203B	STAIR 2 (EXT)	D1	3'-0"	7'-0"	1-3/4"	INSUL H.M.	PNT	F2	H.M.	PNT	H-1	J-1	S-1	---	H-2, L-4, C-3, T-1, WS-1	SIGN ①
204A	SPRINK / PUMP (EXT)	D1	3'-0"	7'-0"	1-3/4"	INSUL H.M.	PNT	F2	H.M.	PNT	H-3	J-3	S-1	---	H-2, L-4, C-3, T-1, WS-1	
205A	ELECTRICAL	D1	3'-0"	7'-0"	1-3/4"	H.M.	PNT	F1	H.M.	PNT	H-4	J-4	---	---	H-1, L-4, C-2, DS-1, S-1	
2ND FLOOR																
302A	STAIR 1	D1	3'-0"	7'-0"	1-3/4"	H.M.	PNT	F2	H.M.	PNT	H-2	J-2	---	1 HR	H-1, L-1, C-1, DS-1, WS-2	SIGN ②
303A	STAIR 2	D1	3'-0"	7'-0"	1-3/4"	H.M.	PNT	F2	H.M.	PNT	H-2	J-2	---	1 HR	H-1, L-1, C-1, DS-1, WS-2	SIGN ②

HARDWARE LEGEND - INDICATED MANUFACTURERS ARE BASIS OF DESIGN

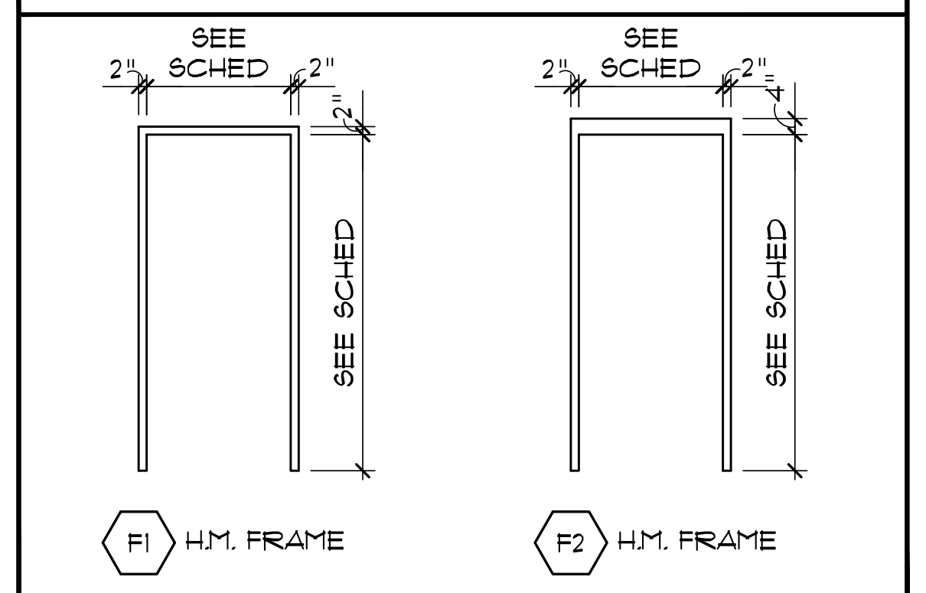
H-1	HAGER BB1279 HINGES 1-1/2 PR 4-1/2x4-1/2	652 (26D)
H-2	HAGER BB1191 NRP HINGES 1-1/2 PR 4-1/2x4-1/2	630 (32D)
L-1	SCHLAGE PASSAGE LATCH AL10S-SAT	626
L-2	SCHLAGE PRIVACY LOCK AL40S-SAT	626
L-3	SCHLAGE CLASSROOM LOCK AL70PD-SAT	626
L-4	SCHLAGE STOREROOM LOCK AL80PD-SAT	626
C-1	LCN 4030, HINGE SIDE MTD, SNB	ALUM
C-2	LCN 4030 EDA, PARALLEL ARM, SNB	ALUM
C-3	LCN 4040XP SCUSH, PARALLEL ARM, SNB	ALUM
DS-1	HAGER 234W WALL MTD DOOR STOP	652 (26D)
T-1	NGP BUMPER SEAL THRESHOLD 896S	ALUM
WS-1	NGP WEATHERSTRIPPING 700SA, SWEEP 200NA	ANOD
WS-2	NGP 5050C HEAD AND JAMB SMOKE SEAL	BLACK
S-1	SILENCERS: HAGER 307D	GRAY

DOOR TYPES



D1 FLUSH

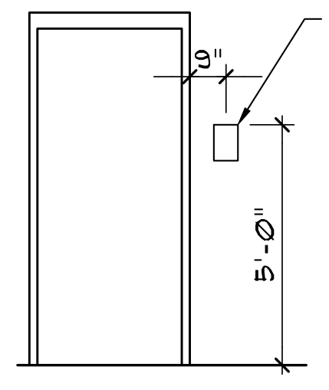
DOOR FRAME TYPES



F1 H.M. FRAME

F2 H.M. FRAME

DOOR SIGNAGE



6"x9" ADA COMPLIANT SIGN W/ PICTOGRAM, RAISED CHARACTERS, AND BRAILLE:

① PICTOGRAM: ISA
TEXT: EXIT
BRAILLE: ACCESSIBLE EXIT

② PICTOGRAM: STAIRS
TEXT: EXIT STAIR DOWN
BRAILLE: EXIT STAIR DOWN

③ PICTOGRAM: STAIRS
TEXT: EXIT STAIR UP
BRAILLE: EXIT STAIR UP

STORAGE UNIT DOORS

TYPE	DIMENSION	DESCRIPTION
A	8'-4"W x 7'-0"H	ROLL-UP
B	3'-4"W x 7'-0"H	ROLL-UP
C	8'-0"W x 7'-0"H	ROLL-UP
D	3'-0"W x 7'-0"H	ROLL-UP
E	6'-0"W x 7'-0"H	ROLL-UP
F	5-0"W x 7'-0"H	ROLL-UP
G	3'-0"W x 7'-0"H	SWING
H	8'-4"W x 7'-0"H	ROLL-UP, AUTOMATIC OPERATOR

NOTE:
STORAGE UNIT DOORS PROVIDE BY STORAGE UNIT SYSTEM MANUFACTURER

FINISH SCHEDULE

NO.	ROOM	FLOOR	BASE	WALLS	CLG	REMARKS
LOWER LEVEL						
101	LOBBY	CONC-S	---	EXP/P1	EXP	P1 AT CMU WALLS, WS-1
102	ELEVATOR EQUIP	CONC-S	---	CMU	GB-P1	
103	STAIR 1	CONC-S	---	CMU-P1	EXP	
104	STAIR 2	CONC-S	---	CMU-P1	EXP	
105	UNITS	CONC-S	---	EXP/P1	EXP	P1 AT CMU WALLS
106	HALLWAY	CONC-S	HB-1	EXP/P1	EXP	P1 AT CMU WALLS
1ST FLOOR						
201	LOADING	CONC-S	---	EXP/P1	EXP	P1 AT CMU WALLS, WS-1
202	STAIR 1	CONC-S	---	CMU-P1	EXP	
203	STAIR 2	CONC-S	---	CMU-P1	EXP	
204	SPRINK / PUMP	CONC-S	---	EXP/P1	EXP	P1 AT GB WALLS
205	ELECTRICAL	CONC-S	---	EXP-P1	EXP	P1 AT GB WALLS
206	UNITS	CONC-S	---	EXP/P1	EXP	P1 AT CMU WALLS
207	HALLWAY	CONC-S	HB-1	EXP/P1	EXP	P1 AT CMU WALLS
2ND FLOOR						
301	LOBBY	CONC-S	---	EXP/P1	EXP	P1 AT CMU WALLS, WS-1
302	STAIR 1	CONC-S	---	CMU-P1	EXP	
303	STAIR 2	CONC-S	---	CMU-P1	EXP	
304	UNITS	CONC-S	---	EXP/P1	EXP	P1 AT CMU WALLS
305	HALLWAY	CONC-S	HB-1	EXP/P1	EXP	P1 AT CMU WALLS

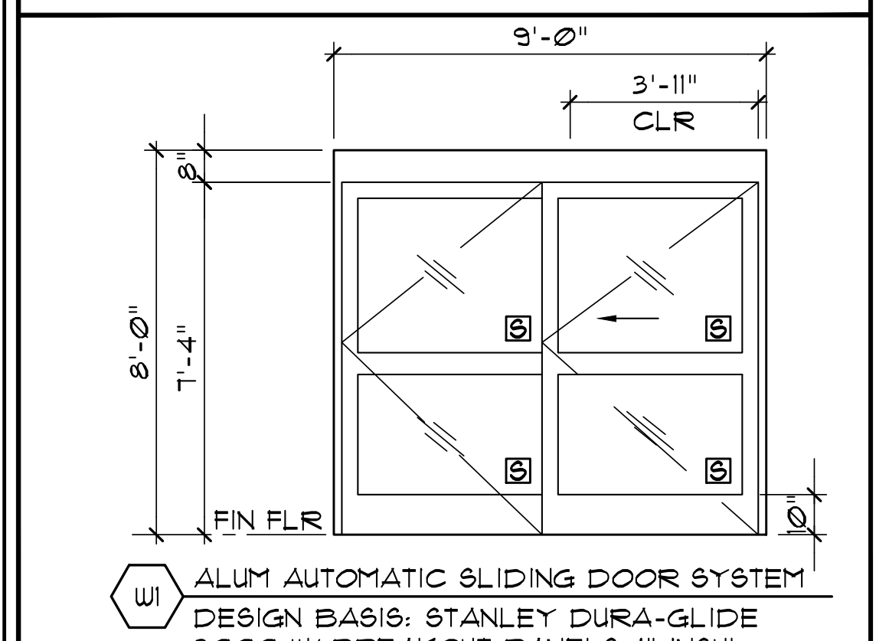
FINISH SCHEDULE NOTES

1. FINISH UNSCHEDULED CLOSETS AND SPACES TO MATCH ADJOINING ROOMS.
2. PAINT HOLLOW METAL DOORS AND FRAMES P5 U.N.O.
3. PAINT LADDERS, STAIR RAILS, STAIR STRUCTURE, AND STAIR FLOOR PLATE P4, SEMI GLOSS.
4. PROVIDE 0.080"x4"x4"x48" HIGH ALUM DIAMOND PLATE CORNER GUARDS AT ALL CORRIDOR/LOBBY OUTSIDE CORNERS.
5. PROVIDE HALLWAY SYSTEM WITH PIERS, HEADERS AND PANELS PAINTED SEMI GLOSS "GLOSSY WHITE", AND COILING DOORS AND FRAMES PAINTED SEMI GLOSS "GLOSSY WHITE", U.O.N.
6. COVER EXPOSED GYP BD IN LOBBIES AND STORAGE CORRIDORS WITH HALLWAY PANELS TO THE HEIGHT OF THE HALLWAY SYSTEM. PAINT EXPOSED GYP BD ABOVE HALLWAY PANELS P1.
7. COVER EXPOSED GYP BD IN STORAGE UNITS WITH UNIT PARTITION PANELS TO THE HEIGHT OF THE UNIT PARTITIONS. PAINT EXPOSED GYP BD ABOVE PARTITION PANELS P1.
8. PROVIDE RT-1 FLOORING IN ELEVATOR CABS.
9. COVER EXPOSED ELEVATOR CMU IN LOBBIES AND STORAGE CORRIDORS WITH HALLWAY PANELS TO THE HEIGHT OF THE HALLWAY SYSTEM. PAINT EXPOSED ELEVATOR CMU ABOVE HALLWAY PANELS IN LOBBIES AND STORAGE CORRIDORS P1. PAINT EXPOSED ELEVATOR CMU IN STORAGE UNITS FROM FLOOR TO CEILING P1.
10. PAINT EXPOSED STAIR CMU IN STORAGE CORRIDORS AND STORAGE UNITS FROM FLOOR TO CEILING P1.

FINISH SCHEDULE LEGEND

CMU	CONCRETE MASONRY UNITS - NO FINISH
CMU-Px	CONCRETE MASONRY UNITS - PAINT IN COLOR/GLOSS INDICATED
CONC-S	CONCRETE SLAB - SEAL WITH CLEAR EPOXY COATING - 2 COATS IN ALL SPACES EXCEPT 1 COAT INSIDE STORAGE UNITS
EXP	EXPOSED STRUCTURE - NO FINISH
EXP-Px	EXPOSED STRUCTURE - PAINT IN COLOR/GLOSS INDICATED
GB	GYPSUM BOARD - NO FINISH
GB-Px	GYPSUM BOARD - PAINT IN COLOR/GLOSS INDICATED
HB-1	HALLWAY BASE - 0.080" x 12" HIGH ALUM DIAMOND PLATE
P1	SHERWIN-WILLIAMS SW7028 "INCREDIBLE WHITE", EGGSHELL
P2	SHERWIN-WILLIAMS SW7028 "INCREDIBLE WHITE", SEMI-GLOSS
P3	SHERWIN-WILLIAMS SW7064 "PASSIVE", EGGSHELL
P4	SHERWIN WILLIAMS SW6811 "HONORABLE BLUE", MATTE
P5	SHERWIN WILLIAMS SW7067 "CITYSCAPE", SEMI-GLOSS
RT-1	RUBBER TILE - ROPPE 996 VANTAGE PROFILE, "DARK GRAY" 150.
WS-1	WAINSCOT - 0.080"x48" HIGH ALUM DIAMOND PLATE

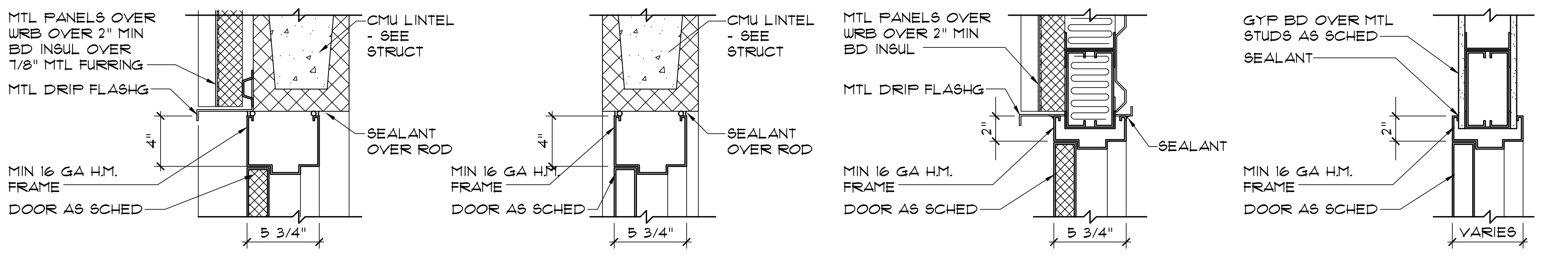
WINDOW TYPES



W1 ALUM AUTOMATIC SLIDING DOOR SYSTEM
DESIGN BASIS: STANLEY DURA-GLIDE 3000 W/ BREAKOUT PANELS, 1" INSUL LOW-E CLEAR SAFETY GLASS

DOOR AND WINDOW NOTES:

1. FIELD VERIFY ALL ROUGH OPENING DIMENSIONS.
2. S ON WINDOW AND DOOR TYPES INDICATES SAFETY GLASS LOCATIONS. PROVIDE SAFETY GLASS COMPLYING WITH CPSC 16 CFR 1201.

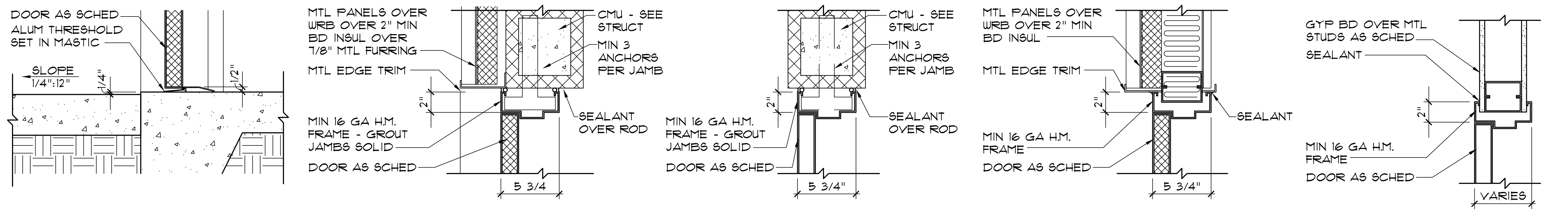

MTL PANELS OVER WRB OVER 2" MIN BD INSUL OVER 7/8" MTL FURRING
MTL DRIP FLASHG
CMU LINTEL - SEE STRUCT
SEALANT OVER ROD
4"
MIN 16 GA H.M. FRAME
DOOR AS SCHED
5 3/4"
MTL PANELS OVER WRB OVER 2" MIN BD INSUL
SEALANT
2"
GYP BD OVER MTL STUDS AS SCHED
VARIES

H-1 HEAD DETAIL

H-2 HEAD DETAIL

H-3 HEAD DETAIL

H-4 HEAD DETAIL


DOOR AS SCHED
ALUM THRESHOLD SET IN MASTIC
SLOPE 1/4":12"
1/4"
1/2"
MTL PANELS OVER WRB OVER 2" MIN BD INSUL OVER 7/8" MTL FURRING
MTL EDGE TRIM
CMU - SEE STRUCT
MIN 3 ANCHORS PER JAMB
SEALANT OVER ROD
2"
MIN 16 GA H.M. FRAME - GROUT JAMBS SOLID
5 3/4
5 3/4"
MTL PANELS OVER WRB OVER 2" MIN BD INSUL
SEALANT
MIN 16 GA H.M. FRAME
GYP BD OVER MTL STUDS AS SCHED
VARIES

S-1 SILL DETAIL

J-1 JAMB DETAIL

J-2 JAMB DETAIL

J-3 JAMB DETAIL

J-4 JAMB DETAIL

1 / A7.1 DOOR DETAILS

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

SCOTT D. STINARD
032362-1

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Life Storage #230
Self Storage Phase II

1639 Route 22
Brewster, NY 10509

STINARD
ARCHITECTURE
INC

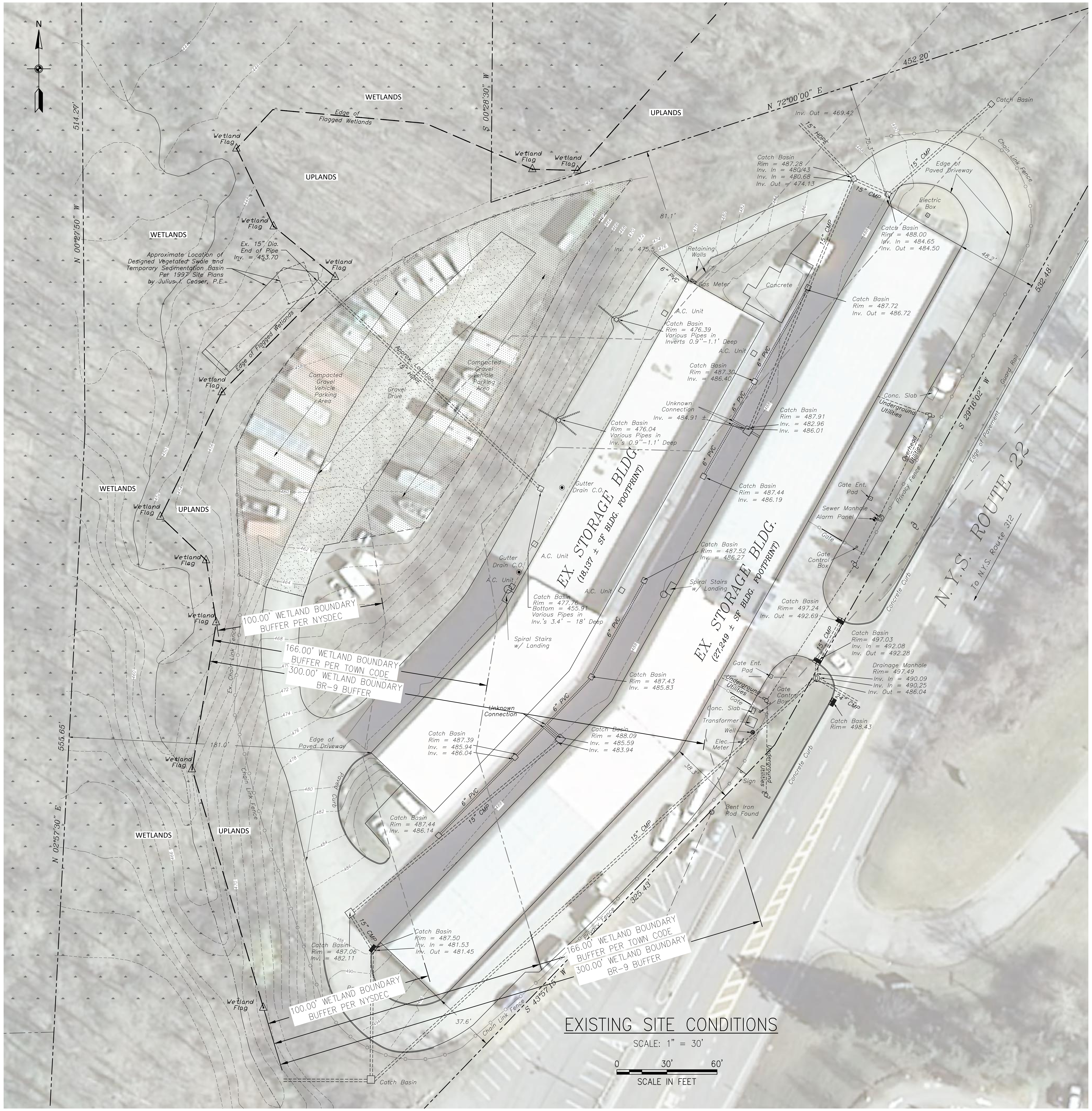
CARTERSVILLE GA 30120
217 S. ERWIN STREET
770.425.7400 (F) 770.425.7400
STINARDARCH.COM

ISSUE: FOR CONSTRUCTION
REVISIONS:

PROJECT NUMBER
201941

DATE
9-28-22

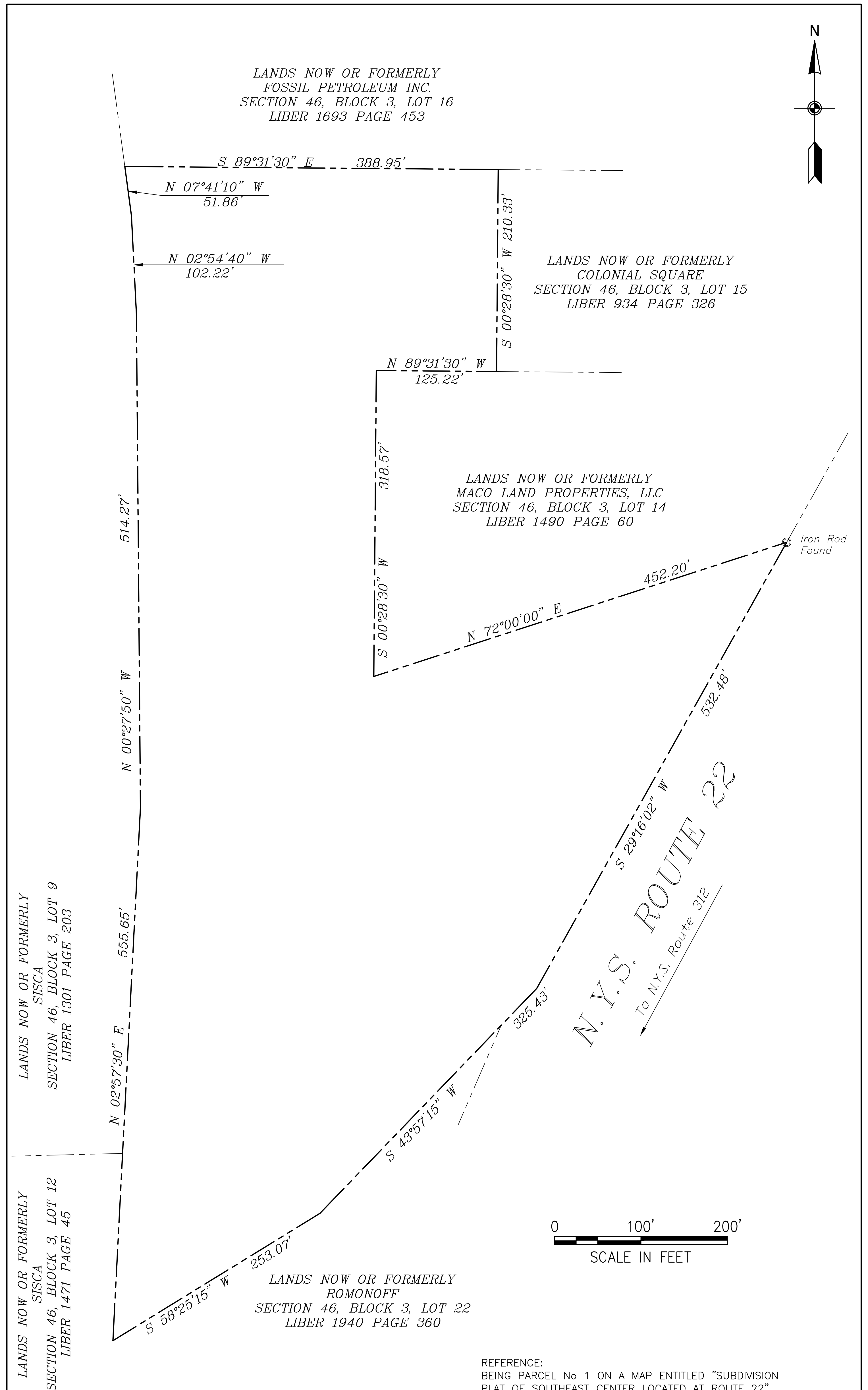
SHEET NUMBER
A7.1



EXISTING SITE CONDITIONS

SCALE: 1" = 30'

0 30' 60'
SCALE IN FEET


N
LANDS NOW OR FORMERLY FOSSIL PETROLEUM INC. SECTION 46, BLOCK 3, LOT 16 LIBER 1693 PAGE 453
S 89°31'30" E 388.95'
N 07°41'10" W 51.86'
N 02°54'40" W 102.22'
LANDS NOW OR FORMERLY COLONIAL SQUARE SECTION 46, BLOCK 3, LOT 15 LIBER 934 PAGE 326
S 00°28'30" W 210.33'
N 89°31'30" W 125.22'
LANDS NOW OR FORMERLY MACO LAND PROPERTIES, LLC SECTION 46, BLOCK 3, LOT 14 LIBER 1490 PAGE 60
318.57'
S 00°28'30" W
452.20'
N 72°00'00" E
Iron Rod Found
514.27'
N 00°27'50" W
555.65'
N 02°57'30" E
S 29°16'02" W
532.48'
N.Y.S. ROUTE 22
To N.Y.S. Route 312
325.43'
S 43°57'15" W
253.07'
S 58°25'15" W
LANDS NOW OR FORMERLY SISCA SECTION 46, BLOCK 3, LOT 9 LIBER 1301 PAGE 203
LANDS NOW OR FORMERLY SISCA SECTION 46, BLOCK 3, LOT 12 LIBER 1471 PAGE 45
LANDS NOW OR FORMERLY ROMONOFF SECTION 46, BLOCK 3, LOT 22 LIBER 1940 PAGE 360
0 100' 200'
SCALE IN FEET

REFERENCE:
BEING PARCEL No 1 ON A MAP ENTITLED "SUBDIVISION PLAT OF SOUTHEAST CENTER LOCATED AT ROUTE 22", FILED IN THE PUTNAM COUNTY CLERKS OFFICE ON OCTOBER 9, 1986, AS MAP # 2172.

TAX MAP DESIGNATION:
SECTION 46, BLOCK 3, LOT 13

DEED REFERENCE:
LIBER 1537 PAGE 318

TOTAL ACREAGE:
435,599 SQ. FT.
10.00± ACRES

SURVEY NOTES:

1. CERTIFICATIONS INDICATED HEREON SIGNIFY THAT THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE EXISTING CODE OF PRACTICE FOR LAND SURVEYORS ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS. SAID CERTIFICATIONS SHALL RUN ONLY TO THOSE NAMED INDIVIDUALS AND/OR INSTITUTIONS, THEIR SUCCESSORS AND/OR ASSIGNS OR SUBSEQUENT OWNERS.
2. UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYORS SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE N.Y. STATE EDUCATION LAW. ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYORS INKED SEAL OR HIS EMBOSSED DEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES.
3. SUBJECT TO AND UP TO DATE ABSTRACT OF TITLE. SUBJECT TO UNDERGROUND UTILITIES AND EASEMENTS NOT RECORDED AND/OR NOT VISIBLE AT TIME OF FIELD SURVEY.

TO BE A TRUE SURVEY COMPLETED IN THE FIELD ON MAY 25, 2016 AND THAT IT IS TO THE BEST OF MY KNOWLEDGE AND BELIEF CORRECT.

DANIEL P. YANOSH L.L.S.
N.Y.S. LIC. # 49561

JUNE 1, 2016
CERTIFIED TO:
LOCKE PREFERRED EQUITY, LLC.

PROPERTY SURVEY

SCALE: 1" = 100'

NOTE:

- WETLANDS DELINEATED BY GREENMAN-PEDERSEN, INC. MAY 18, 2016
- SURVEY LOCATED WETLAND BOUNDARY ON MAY 25, 2016

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Engineering and Construction Services
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GPI

STATE OF NEW YORK
GREENMAN PEDERSEN, INC.
No. 131
LICENSED PROFESSIONAL ENGINEER

SCALE:	AS NOTED	DRAWN BY:	C.Y.
DATE:	SEPTEMBER 16, 2019	CHECKED BY:	T.W.
DWG NO.: AP-1		JOB NO.:	BUF-2015049.041
NO.	REVISIONS:	BY	DATE

AP-1_AERIAL PHOTO EXISTING

LIFE STORAGE, INC.
(SITE #230 BREWSTER)
TOWN OF SOUTHEAST - PUTNAM COUNTY, NY

SHEET NO.
02

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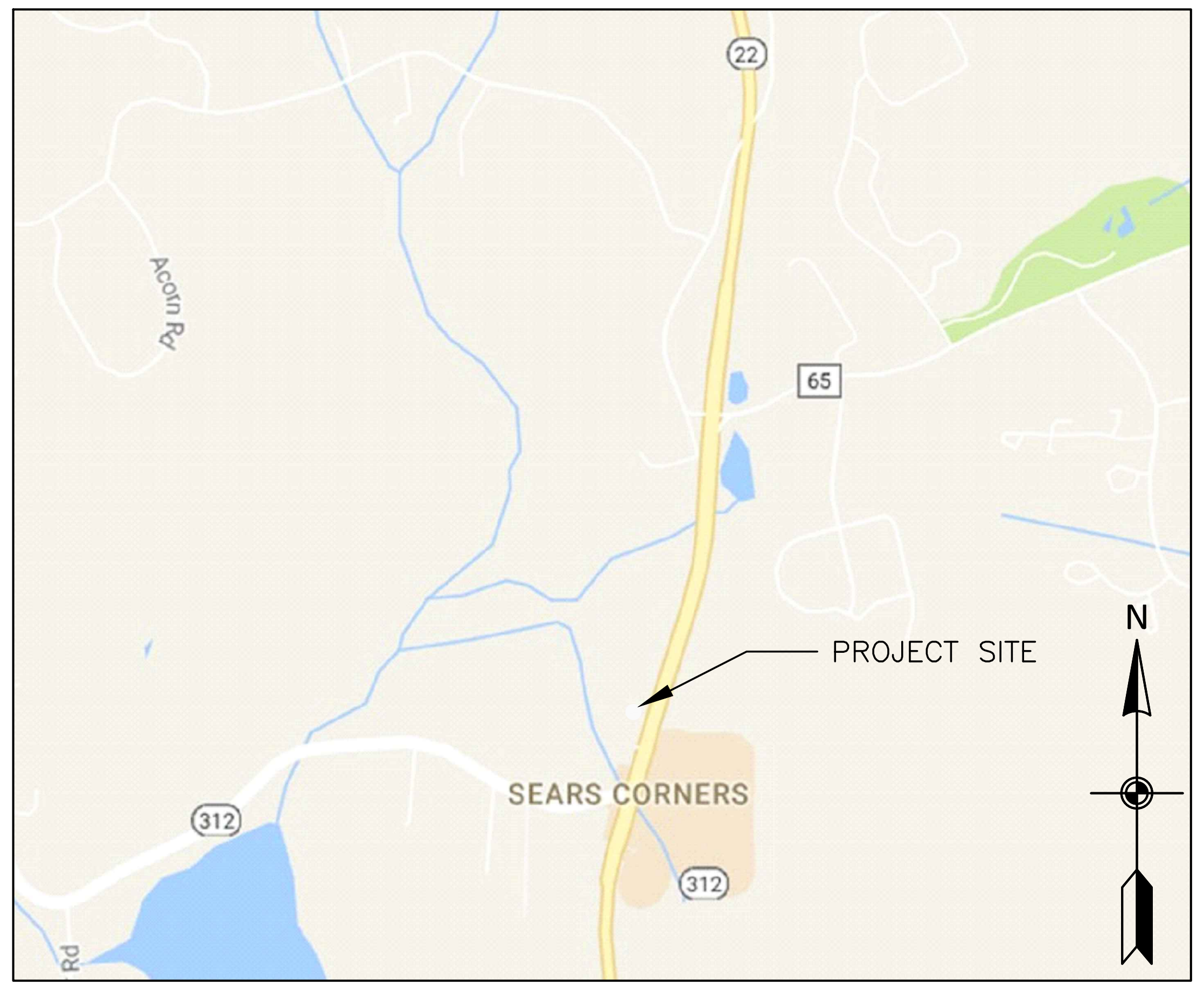
PROPOSED SITE MODIFICATIONS
FOR
LIFE STORAGE INC.

1639 NYS ROUTE 22
TOWN OF SOUTHEAST, NEW YORK

(SITE #230 BREWSTER)



PROJECT SITE LOCATION SKETCH

(NOT TO SCALE)

SCHEDULE OF DRAWINGS

SHEET NO.	DRAWING	DESCRIPTION	DATE
1 OF 18	CS–1	COVER SHEET	OCTOBER 18. 2019
2 OF 18	AP–1	AERIAL PHOTO EXISTING	SEPTEMBER 16. 2019
3 OF 18	EX–1	EXISTING SITE CONDITIONS & SURVEY	SEPTEMBER 16. 2019
4 OF 18	DP–1	DEMOLITION PLAN	SEPTEMBER 16. 2019
5 OF 18	SP–1	PROPOSED SITE & UTILITY PLAN	OCTOBER 18. 2019
6 OF 18	ECP–1	EROSION & SEDIMENT CONTROL PLAN	SEPTEMBER 16. 2019
7 OF 18	GD–1	GRADING & DRAINAGE PLAN	OCTOBER 18. 2019
8 OF 18	LP–1	PROPOSED WETLAND BUFFER MITIGATION PLAN	OCTOBER 18. 2019
9 OF 18	SD–1	SITE DETAILS	OCTOBER. 2019
10 OF 18	ECD–1	EROSION & SEDIMENT CONTROL DETAILS	SEPTEMBER 16. 2019
11 OF 18	LD–1	LIGHTING DETAILS 1	OCTOBER 18. 2019
12 OF 18	LD–2	LIGHTING DETAILS 2	OCTOBER 18. 2019
13 OF 18	LD–3	LIGHTING PHOTOMETRICS	OCTOBER 18. 2019
14 OF 18	TT–1	TRUCK TURN ANALYSIS	OCTOBER 18. 2019
15 OF 18 (#)	LP–2	SUPPLEMENTAL LANDSCAPE PLAN	JANUARY 3. 2020
16 OF 18 (*)	A1.1	FLOOR PLANS	SEPTEMBER 12. 2019
17 OF 18 (*)	A4.1	ELEVATIONS	SEPTEMBER 27. 2019
18 OF 18 (*)	A4.2	3D RENDER	NOVEMBER 20. 2019

(#) = TRANSMITTED AS PART OF JANUARY 2020 ARB SUBMISSION

(*) = TRANSMITTED AS PART OF NOVEMBER 2019 ARB SUBMISSION

LifeStorage

OWNER

LIFE STORAGE, INC.
6467 MAIN STREET
BUFFALO, NY 14221

CONTACT:
Mr. RICHARD PASTERNACK
PHONE: 716–650–6008

PRELIMINARY PLANS
NOT FOR CONSTRUCTION

N:\2015\buf-2015049.041 life storage brewster- ii\CADD\Design Plans\CS-1 COVER SHEET.dwg Friday, 24 January 2020 12:52PM

Greenman-Pedersen, Inc.
Engineering and Construction Services

In Western New York:
BUFFALO (716) 633-4844 • ROCHESTER (585) 486-4859 • JAMESTOWN (716) 488-2803

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STATE OF NEW YORK
GREENMAN PEDERSEN INC.
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DRAWN BY: C.Y.
DATE: SEPTEMBER 16, 2019
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DWG NO.: CS-1
JOB NO.: BUF-2015049.041

NO.	REVISIONS:	BY	DATE

CS-1_COVER SHEET

LIFE STORAGE, INC.
(SITE #230 BREWSTER)
TOWN OF SOUTHEAST - PUTNAM COUNTY, NY

SHEET NO.
01

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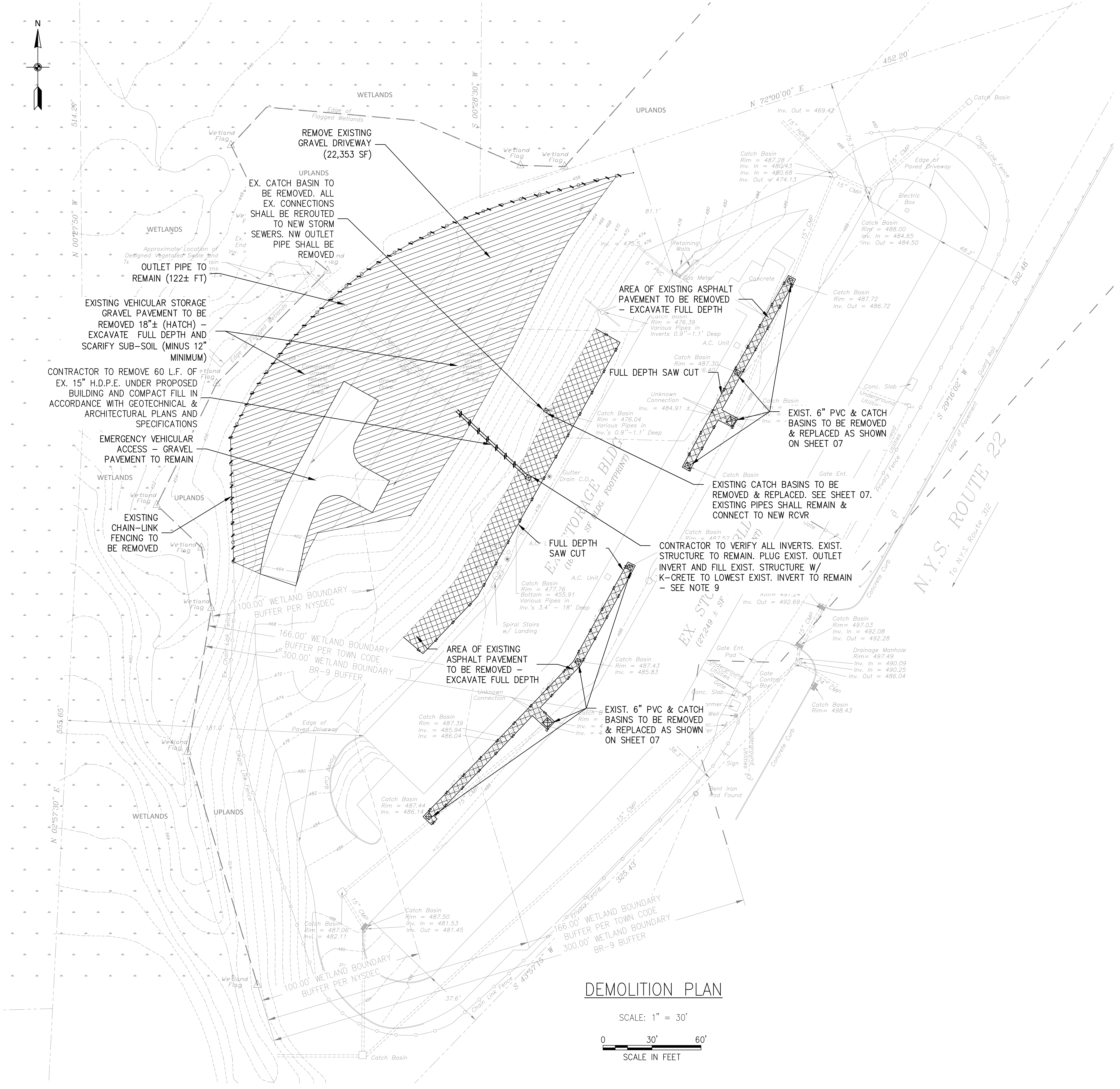
N
WETLANDS
UPLANDS
REMOVE EXISTING GRAVEL DRIVEWAY (22,353 SF)
EX. CATCH BASIN TO BE REMOVED. ALL EX. CONNECTIONS SHALL BE REROUTED TO NEW STORM SEWERS. NW OUTLET PIPE SHALL BE REMOVED
OUTLET PIPE TO REMAIN (122± FT)
EXISTING VEHICULAR STORAGE GRAVEL PAVEMENT TO BE REMOVED 18"± (HATCH) – EXCAVATE FULL DEPTH AND SCARIFY SUB-SOIL (MINUS 12" MINIMUM)
CONTRACTOR TO REMOVE 60 L.F. OF EX. 15" H.D.P.E. UNDER PROPOSED BUILDING AND COMPACT FILL IN ACCORDANCE WITH GEOTECHNICAL & ARCHITECTURAL PLANS AND SPECIFICATIONS
EMERGENCY VEHICULAR ACCESS – GRAVEL PAVEMENT TO REMAIN
EXISTING CHAIN-LINK FENCING TO BE REMOVED
AREA OF EXISTING ASPHALT PAVEMENT TO BE REMOVED – EXCAVATE FULL DEPTH
FULL DEPTH SAW CUT
EXIST. 6" PVC & CATCH BASINS TO BE REMOVED & REPLACED AS SHOWN ON SHEET 07
EXISTING CATCH BASINS TO BE REMOVED & REPLACED. SEE SHEET 07. EXISTING PIPES SHALL REMAIN & CONNECT TO NEW RCVR
FULL DEPTH SAW CUT
CONTRACTOR TO VERIFY ALL INVERTS. EXIST. STRUCTURE TO REMAIN. PLUG EXIST. OUTLET INVERT AND FILL EXIST. STRUCTURE W/ K-CRETE TO LOWEST EXIST. INVERT TO REMAIN – SEE NOTE 9
AREA OF EXISTING ASPHALT PAVEMENT TO BE REMOVED – EXCAVATE FULL DEPTH
EXIST. 6" PVC & CATCH BASINS TO BE REMOVED & REPLACED AS SHOWN ON SHEET 07
EX. STORAGE BLDG.
N.Y.S. ROUTE 22
To N.Y.S. Route 312
N 72°00'00" E
452.20'
S 00°28'30" W
514.29'
N 00°27'50" W
N 02°57'30" E
555.65'
S 29°16'02" W
532.48'
S 43°57'15" W
325.43'
100.00' WETLAND BOUNDARY BUFFER PER NYSDEC
166.00' WETLAND BOUNDARY BUFFER PER TOWN CODE
300.00' WETLAND BOUNDARY BR-9 BUFFER
Edge of Flagged Wetlands
Wetland Flag
Approximate Location of Designed Vegetated Swale and
Catch Basin
Edge of Paved Driveway
Chain Link Fence
Guard Rail
Concrete Curb
Electric Box
Retaining Walls
Gate Ent. Pad
Gate Control Box
Drainage Manhole
Spiral Stairs w/ Landing
A.C. Unit
Unknown Connection
Iron Rod Found
Sign
0 30' 60'
SCALE IN FEET

DEMOLITION PLAN

SCALE: 1" = 30'

KEY:

▨	EX. VEHICULAR STORAGE PAVEMENT/GRAVEL AREA TO BE REMOVED
▦	EX. ASPHALT PAVEMENT AREA TO BE REMOVED
-o-x-x-x-o-	EX. CHAIN-LINK FENCE TO BE REMOVED
—x—x—x—	EX. 15" PIPE TO BE REMOVED
—x—	FULL DEPTH SAWCUT, ASPHALT PAVEMENT
☒	EX CATCH BASIN TO BE REMOVED

NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO THE TOWN OF SOUTHEAST CONSTRUCTION SPECIFICATIONS AND DETAILS.
2. SAW-CUT EXISTING PAVEMENT AT MINIMUM WIDTH TO REMOVE AND REPLACE EXISTING CATCH BASINS AND 6" DIA. PVC WITH 12" DIA. HDPE PER TRENCHING DETAIL. REPLACE ASPHALT PAVEMENT PER SECTION DETAIL.
3. THE CONTRACTOR IS TO VERIFY EXACT DEPTHS AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
4. CONTRACTOR TO AVOID DISRUPTION TO EXISTING DRIVEWAYS AND ISLES AS MUCH AS POSSIBLE. ADDITIONAL PAVEMENT BLENDING MAY BE REQUIRED BEYOND PROPOSED LIMITS BASED ON EXISTING AND PROPOSED GRADES. CONTRACTOR TO COORDINATE WITH OWNER REGARDING CONSTRUCTION SCHEDULE.
5. CONTRACTOR SHALL REPLACE ANY EXISTING PAVEMENT DAMAGED DURING CONSTRUCTION.
6. NO WORK IS TO BE PERFORMED OUTSIDE OF EX. CHAIN-LINK FENCE UNLESS NOTED.
7. CONTRACTOR SHALL MAINTAIN ALL EXISTING DOWNSPOUT DRAINAGE CONNECTIONS WITHIN THE PROPOSED STORM SYSTEM. ADDITIONAL CONNECTIONS MAY EXIST BEYOND WHAT IS SHOWN.
8. CONTRACTOR TO SECURE & PROTECT THE PROJECT/CONSTRUCTION SITE.
9. CONTRACTOR TO COMPLETE SMOKE TEST ON THE LOWEST INCOMING PIPE ENTERING RCVR 10 FROM THE NORTH, WHICH IS AT AN INVERT ELEVATION OF APPROXIMATELY 460.1. ASSUMING THIS IS A ROOF DRAIN CONNECTION, THIS DRAIN SHALL BE REROUTED VERTICALLY TO OUTFALL INTO RCVR 10, 17 OR 11. IN THE EVENT THE SOURCE OF THE LINE CANNOT BE TRACED THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR DIRECTION.

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STATE OF NEW YORK
GREENMAN PEDERSEN, INC.
LICENSED PROFESSIONAL ENGINEER
No. 131

SCALE: AS NOTED		DRAWN BY:	C.Y.
DATE: OCTOBER 18, 2019		CHECKED BY:	T.W.
DWG NO.: DP-1		JOB NO.:	BUF-2015049.041
NO.	REVISIONS:	BY	DATE

DP-1_DEMOLITION PLAN

LIFE STORAGE, INC.
(SITE #230 BREWSTER)
TOWN OF SOUTHEAST - PUTNAM COUNTY, NY

SHEET NO.
04

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SPECIFICATIONS

GENERAL

CONTRACTOR SHALL REFER TO ALL RELATED DOCUMENTS, ARCHITECTURAL, STRUCTURAL, CIVIL AND MEP DRAWINGS, AND FULLY UNDERSTAND THE SCOPE OF WORK AND CONDITION OF CONSTRUCTION.

THE WORK UNDER THIS SPECIFICATIONS AND DRAWINGS SHALL INCLUDE ALL LABOR.

ALL INSTALLATION OF DEVICES AND CONNECTION OF CONDUCTORS SHALL BE PERFORMED BY LICENSED AND SKILLED ELECTRICIAN OR JOURNEYMAN.

ALL WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE OWNER. IF ANY PORTION OF THE WORK IS FOUND UNSATISFACTORY BY THE OWNER, IT SHALL BE REMOVED AND REINSTALLED WITHOUT DELAY AT NO COST TO THE OWNER.

THE WORK INCLUDES, BUT NOT LIMITED TO:
- THE COMPLETE ELECTRICAL DISTRIBUTION SYSTEM.
- ROUGH-IN AND FINAL CONNECTIONS TO ALL DEVICES REQUIRING ELECTRICAL POWER, INCLUDING OWNER PROVIDED EQUIPMENT.
- LIGHTING CONTROL
- LIGHTING FIXTURES

EACH CONTRACTOR SHALL OBTAIN ALL PERMITS AND INSPECTIONS REQUIRED BY THE REGULATORY AUTHORITIES. ALL FEES RELATED TO OBTAINING PERMITS AND INSPECTION SHALL BE PAID FOR BY EACH CONTRACTOR IN HIS TRADE.

ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH LOCAL, COUNTY, STATE, AND NATIONAL ELECTRICAL CODE 2017, SPECIFICATIONS, UTILITY COMPANY REQUIREMENTS AND ALL INDUSTRY STANDARDS.

ANY DIFFERENCES IN ABOVE MENTIONED REQUIREMENTS, THE MOST STERN SHALL OVERRULE ALL OTHERS.

IN ADDITION TO ABOVE MENTIONED CODES AND SPECIFICATIONS, THE FOLLOWING INDUSTRY STANDARDS SHALL BE COMPLIED IF THEY ARE MORE STRINGENT.
- IEEE
- IES
- IECC 2015
- ASHRAE 90.1
- NFPA
- NEMA
- UL
- ADA

THE MANUFACTURER'S PUBLISHED DIRECTIONS SHALL BE FOLLOWED IN THE DELIVERY, STORAGE, PROTECTION, INSTALLATION AND WIRING OF ALL EQUIPMENT AND MATERIAL.

THE DRAWINGS SHOW DIAGRAMMATICALLY THE LOCATIONS OF THE VARIOUS LINES, CONDUITS, FIXTURES, AND EQUIPMENT AND THE METHOD OF CONNECTING AND CONTROLLING THEM. IT IS NOT INTENDED TO SHOW EVERY CONNECTION IN DETAIL AND ALL FITTINGS REQUIRED FOR A COMPLETE SYSTEM. THE SYSTEMS SHALL INCLUDE BUT ARE NOT LIMITED TO THE ITEMS SHOWN ON THE DRAWINGS. EXACT LOCATIONS OF THESE ITEMS SHALL BE DETERMINED BY REFERENCE TO THE GENERAL PLANS AND MEASUREMENTS AT THE BUILDING AND IN COOPERATION WITH THE OTHER SUBCONTRACTORS, AND IN ALL CASES, SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER. THE OWNER RESERVES THE RIGHT TO MAKE ANY REASONABLE CHANGE IN THE LOCATION OF ANY PART OF THIS WORK WITHOUT ADDITIONAL COST TO THE OWNER.

CONTRACTOR SHALL SEEK APPROVAL FROM THE OWNER FOR ANY CHANGES TO THE SPECIFICATIONS OR CONTRACT DOCUMENTS.

ANY EXCEPTIONS, INCONSISTENCIES AND CONFLICTS IN CONTRACT DOCUMENTS, SPECIFICATIONS AND CONTRACT DOCUMENTS BY OTHER TRADE SHALL BE BROUGHT TO ATTENTION TO THE OWNER PRIOR TO BID.

CONTRACTOR SHALL COORDINATE AND VERIFY THE WORK WITH EXISTING CONDITIONS AND THE WORK OF OTHER TRADE PRIOR TO ANY FABRICATIONS OR INSTALLATION. IF THE LAYOUT OF THE DEVICES ON DRAWINGS ARE IMPRACTICAL TO THE CONDITION IN FIELD, CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY PRIOR TO ANY FABRICATION OR INSTALLATION.

ELECTRICAL DEVICES ARE INDICATED ON DRAWINGS AT APPROXIMATE LOCATIONS. THE OWNER RESERVE THE RIGHT TO MAKE REASONABLE CHANGES IN LOCATIONS WITHOUT ADDITIONAL COSTS.

THE LINES INDICATING BRANCH CIRCUITS DO NOT REPRESENT THE ROUTING OF ELECTRICAL CONDUITS. THEY INDICATE THE LAYOUT AND CONTROL OF CIRCUITS.

PRODUCTS AND WORK

MATERIALS FURNISHED SHALL BE NEW AND BY STANDARD MANUFACTURERS AND MUST CONFORM TO THE NATIONAL BOARD OF FIRE UNDERWRITER'S REQUIREMENTS AND BEAR THE UNDERWRITER'S LABORATORIES SEAL OF APPROVAL.

LISTED MANUFACTURERS, MODELS, OR CATALOGUE NUMBERS IN PART OR ALL SHALL ENTAIL TO INCLUDE THE PUBLISHED MANUFACTURER'S DESCRIPTION AND SPECIFICATION.

CONTRACTOR SHALL NOT INTERPRET THAT THE LISTED MANUFACTURERS IN SPECIFICATIONS OR DRAWINGS TO EXCLUDE ALL OTHER MANUFACTURERS

CONTRACTOR SHALL MAKE CERTAIN THAT ALL EQUIPMENT FIT IN THE SPACE DESIGNATED AND DESIGNED FOR THE SURROUNDINGS IT OCCUPIES.

COMPLETE CATALOGUE ILLUSTRATION AND DESCRIPTIONS OF ALL EQUIPMENT SHALL BE SUBMITTED TO THE OWNER PRIOR TO ORDERING ANY EQUIPMENT.

ALL HORIZONTAL RUNS OF CONDUITS SHALL BE SUPPORTED BY MEANS OF APPROVED HANGER FROM THE STRUCTURAL CEILING.

COORDINATE THE WORK UNDER THIS SECTION WITH ALL OTHER TRADES.

CONDUITS AND RACEWAYS:

MANUFACTURERS: SQUARE D, B-LINE, ALLIED TUBE & CONDUIT, HOFFMAN, CARLON ELECTRICAL, WIREMOLD.

OUTDOORS EXPOSED: RIGID STEEL.
OUTDOORS CONCEALED ABOVE GROUND: RIGID STEEL.
OUTDOORS UNDERGROUND: TYPE EPC-40-PVC
OUTDOORS CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND MOTOR DRIVEN EQUIPMENT): LFMC.
BOXES AND ENCLOSURES ABOVE GROUND: NEMA 3R UNLESS NOTED OTHERWISE ON PLANS.
INDOORS EXPOSED NOT SUBJECT TO PHYSICAL DAMAGE: EMT.
INDOORS EXPOSED NOT SUBJECT TO SEVERE PHYSICAL DAMAGE: EMT.
INDOORS EXPOSED SUBJECT TO SEVERE PHYSICAL DAMAGE: RIGID STEEL CONDUIT.
INDOORS CONCEALED IN CEILINGS AND INTERIOR WALLS AND PARTITIONS: EMT.
INDOORS CONNECTION TO VIBRATING EQUIPMENT: FMC, EXCEPT USE LFMC IN DAMP OR WET LOCATIONS.
INDOORS DAMP OR WET LOCATIONS: IMC.
INDOORS LOW-VOLTAGE CABLES: EMT.

CONDUCTORS:

COPPER CONDUCTORS #10 AND SMALLER:

LABELED PER UL 83, TYPE THHN/THWN, SOLID COPPER 600 VOLT INSULATION, UNIFORM COLOR CODED JACKET WITH JACKET DATA.
METAL CLAD (TYPE MC) CABLE WHERE INSTALLED IN ACCORDANCE WITH NEC ARTICLE 330.

COPPER CONDUCTORS #8 OR LARGER:

LABELED PER UL 83, TYPE THHN/THWN, STRANDED COPPER, 600VOLT INSULATION, UNIFORM COLOR CODED JACKET WITH JACKET DATA.

ACCEPTABLE MANUFACTURERS OF CONDUCTORS:
- PIRELLIE
- SOUTHWIRE
- AETNA
- REPUBLIC
- AFC
- ENCORE WIRE
- KERITE

CONTRACTOR MAY USE ALUMINUM CONDUCTORS FOR #4 AWG OR LARGER IN THE PLACE OF COPPER CONDUCTORS. CONTRACTOR SHALL REFER TO NEC TABLE 310-16 FOR EQUIVALENT AMPACITY AND SHALL COMPENSATE FOR VOLTAGE DROP.

SPECIFICATIONS

MOLDED CASE CIRCUIT BREAKER:

INCLUDE SCHEDULE OF ALL FUSES, RATINGS, TIME COORDINATION DATA, MANUFACTURER'S STANDARD DATA AND TIME-CURRENT CURVES. ALL DATA SHALL BE BASED ON TEST OF STANDARD PRODUCTS.

APPROVED MANUFACTURERS:
- GENERAL ELECTRIC
- CUTLER HAMMER
- SQUARE D
- SIEMENS

THERMAL-MAGNETIC BOLT-IN TYPE CIRCUIT BREAKERS WITH QUICK-MAKE, QUICK-BREAK CONTACTS, TRIP-FREE OPERATION WITH OVER-THE-CENTER TOGGLE HANDLE OR NON-REMOVABLE MONOLITHIC TIE-HANDLE.

MULTI-POLE BREAKERS SHALL HAVE INTERNAL COMMON TRIP AND COMMON RESET WITH A SINGLE TOGGLE HANDLE OR NON-REMOVABLE MONOLITHIC TIE-HANDLE.

TRIP RATINGS SHALL BE MOLDED ON THE HANDLE OR FACE OF BREAKER.

BREAKER TERMINALS SHALL BE RATED TO ACCOMMODATE A MINIMUM OF 75 DEGREE C. CONDUCTORS.

BREAKER SHALL BE RATED FOR MOUNTING AND OPERATION IN ANY POSITION; SHALL ACCOMMODATE AND MATCH THE TYPE OF TERMINATIONS REQUIRED.

SINGLE POLE BREAKERS RATED 15 AND 20 AMPERES SHALL BE UL LABELED AS "SWITCHING BREAKERS" AT THE APPLIED CIRCUIT VOLTAGE.

MULTI-POLE BREAKERS RATED 100 AMPERES AND LARGER SHALL BE MOLDED CASE THERMAL-MAGNETIC BOLT-IN TYPE BREAKER WITH ADJUSTABLE INSTANTANEOUS TRIP.

LIGHTING FIXTURE

SUBMITTAL:

SCHEDULE BY TYPE DESIGNATION ALL LIGHTING FIXTURES, EACH COMPLETE WITH DATA SHEET WITH COMPLETE PHYSICAL, ELECTRICAL AND LIGHTING CHARACTERISTICS, LAMP TYPE AND LAMP DATA.

REFER TO THE "LIGHTING FIXTURE SCHEDULE" IN THE DRAWINGS FOR INDIVIDUAL FIXTURE DESCRIPTIONS AND MANUFACTURER TYPES.

PROVIDE LAMPS FOR EACH FIXTURE OF QUANTITY, TYPE AND COLOR AS LISTED IN LIGHTING FIXTURE SCHEDULE. GE, SYLVANIA OR PHILIPS ARE ACCEPTABLE.

EACH LIGHTING FIXTURE SHALL BE UL LABELED FOR PROPER OPERATION IN THE TYPE OF CEILING CONSTRUCTION AND FOR THE MOUNTING ARRANGEMENT ON/IN WHICH IT IS INSTALLED.

FIELD VERIFY ACTUAL CEILING SLOPE FOR FIXTURES INSTALLED IN SAME AND ACTUAL FIELD DIMENSIONS AND ANGLES OF CONSTRUCTION FOR ANY FIXTURE CONFORMING THE SHAPE AND LENGTH OF SAME, FOR COORDINATION OF FIXTURE CONSTRUCTION.

PANELBOARD

SUBMITTAL:

INCLUDE SCHEDULE OF EACH PANELBOARD WITH ALL DEVICES AND COMPLETE WITH PHYSICAL AND ELECTRICAL DATA AND WITH RATINGS FOR EACH COMPONENT INCLUDING BREAKER/FUSE OVERLAY CURVES.

LABELED PER UL 67 AND 50, CONFORM WITH NEMA 250 AND PB1, NFPA 70-384 AND 70-373.

ALL JUNCTION BOXES SHALL BE LABELED WITH PANEL AND CIRCUIT DESIGNATION.

PROVIDE TYPED CIRCUIT DIRECTORY WITH EACH CIRCUIT SERVING DEVICES AND AREA IT'S SERVING.

APPROVED MANUFACTURERS:
- GENERAL ELECTRIC
- CUTLER HAMMER
- SQUARE D
- SIEMENS

LIGHTING CONTROL

TIME SWITCHES:

SOLID STATE, PROGRAMMABLE, WITH ALPHANUMERIC DISPLAY; COMPLYING WITH UL 917. 20-A BALLAST LOAD, 120/240VAC.

TWO ON-OFF SET POINTS ON A 24-HOUR SCHEDULE AND ANNUAL HOLIDAY SCHDULE THAT OVERRIDES THE WEEKLY OPERATION ON HOLIDAYS.

ALLOW CONNECTION OF A PHOTOELECTRIC RELAY AS SUBSTITUTE FOR ON-OFF FUNCTION OF A PROGRAM

BATTERY BACKUP FOR NOT LESS THAN SEVEN DAYS RESERVE TO MAINTAIN SCHEDULES AND TIME CLOCK.

INDOOR OCCUPANCY SENSORS:

WALL OR CEILING MOUNTED SOLID-STATE INDOOR OCCUPANCY SENSORS WITH A SEPARATE POWER PACK

ADJUSTABLE TIME-DELAY OVER A RANGE OF 1 TO 30 MINUTES.

SENSOR OUTPUT: CONTACTS RATED TO OPERATE THE CONNECTED RELAY, COMPLYING WITH UL773A. SENSOR IS POWERED FROM POWER PACK.

POWER PACK: DRY CONTACTS RATED FOR 20-A BALLAST LOAD AT 120 OR 277 VAC.
AUTOMATIC LIGHT-LEVEL SENSOR: ADJUSTABLE FROM 2 TO 200 FC (21.5 TO 2152 LUX); TURN LIGHTS OFF WHEN SELECTED LIGHTING LEVEL IS PRESENT.

DUAL SENSOR TYPE: DETECT OCCUPANCY AREA USING PIR (PASSIVE INFRA-RED) AND ULTRASONIC DETECTION METHOD.

GROUNDING AND BONDING

ALL GROUNDING AND BONDING SHALL CONFORM TO NEC ARTICLE 250.

COPPER WIRE OR CABLE INSULATED FOR 600V UNLESS REQUIRED BY APPLICABLE CODE OR AUTHORITIES HAVING JURISDICTION.

INSTALL SOLID CONDUCTOR FOR #8 AWG AND SMALLER AND STRANDED CONDUCTORS FOR #6 OR LARGER.

INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS FOR ALL EQUIPMENT.

ELECTRICAL GENERAL NOTES

THE DESIGN OF THIS SET OF DOCUMENT IS BASED ON NEC 2017.

ELECTRICAL CONTRACTOR SHALL REFER TO ALL OTHER DESIGN DRAWINGS PRIOR TO BID AND RETAIN FULL UNDERSTANDING OF THE SCOPE OF WORK.

FIXTURE TYPE INDICATED BY UPPER CASE CHARACTERS, SWITCHING AND GROUPING DESIGNATED BY LOWER CASE LETTER AND CIRCUIT BY NUMBER (WHERE APPLICABLE).

REFER TO THE ARCHITECTURAL/INTERIORS REFLECTED CEILING PLANS FOR EXACT FIXTURE PLACEMENT AND DIMENSIONS.

REFER TO THE ARCHITECTURAL/INTERIORS DOCUMENTS FOR ACTUAL DEVICE LOCATIONS AND DIMENSIONS.

COORDINATE THE INSTALLATION OF ALL CEILING MOUNTED DEVICES (FIRE ALARM SYSTEM DEVICES AND SPEAKERS, SOUND SYSTEM SPEAKER, ETC.) TO BE SYMMETRICAL ABOUT LIGHT FIXTURES AND SPRINKLER HEADS. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN. TYPICAL.

ALL MOUNTING OF EQUIPMENT IS AS SHOWN UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECT THE COLOR/FINISHES OF ALL ELECTRICAL DEVICES, OUTLETS, COVERPLATES AND TRIM.

EMERGENCY BATTERY PACKS AND EXIT SIGNS SHALL BE CONNECTED AHEAD OF ANY SWITCHING DEVICES.

REFER TO MECHANICAL DRAWINGS FOR DUCT SMOKE DETECTOR LOCATIONS AND QUANTITIES OPERATION SHALL INCLUDE DUAL CONTACT BASE WITH LOCAL EQUIPMENT SHUTDOWN AND FIRE ALARM SIGNAL INITIATION.

WHEN CONDUCTOR OR CONDUIT SIZE IS INDICATED FOR BRANCH CIRCUIT HOME RUN, THE CONDUCTOR AND CONDUIT SIZE INDICATED SHALL BE USED FOR THE COMPLETE CIRCUIT.

REFER TO THE APPROPRIATE DRAWINGS FOR THE EXACT LOCATION AND REQUIREMENTS OF EQUIPMENT INSTALLED UNDER OTHER DIVISIONS OF THE DOCUMENTS, WHICH REQUIRE ELECTRICAL SERVICE.

EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSTALLED IN ALL RACEWAYS.

WALL SWITCHES CONTROLLING CIRCUITS OF OPPOSITE PHASES SHALL NOT BE INSTALLED IN COMMON BOX UNLESS PERMANENT BARRIER IS PROVIDED.

ALL HOME RUNS SHALL RUN PARALLEL TO STRUCTURE AS MUCH AS POSSIBLE WHERE CEILING IS EXPOSED.

ALL RACEWAY AND EQUIPMENT SUPPORTS AND HANGERS SHALL BE FULLY COORDINATED WITH STRUCTURAL DRAWINGS TO INSURE LOCATION OF SAME OCCURS WITHIN FOUR (4) INCHES OF PANEL POINT ON BAR JOISTS.

COORDINATE LOCATION OF ALL FLOOR MOUNTED MECHANICAL AND PLUMBING EQUIPMENT IN ORDER TO VERIFY POWER & CONTROL RACEWAY CONCEALED IN SLABS TERMINATED AT PROPER LOCATION.

DISCONNECT SWITCHES, MOTOR STARTERS AND OTHER ELECTRICAL EQUIPMENT INSTALLED ABOVE ACCESSIBLE CEILINGS, AND REQUIRING ACCESS FOR MAINTENANCE, SHALL BE INSTALLED WITH BOTTOM OF DEVICE ONE (1) FOOT ABOVE CEILING TO PROVIDE READY ACCESSIBILITY.

MECHANICAL, PLUMBING, FIRE PROTECTION AND OTHER EQUIPMENT ARE SHOWN ON FLOOR PLAN IN APPROXIMATE LOCATION. COORDINATE WITH M, P, FP AND CONTRACT DRAWINGS/SUBMITTALS FOR EXACT LOCATION OF EQUIPMENT.

GENERAL DIAGRAMATIC RACEWAY INTERCONNECTIONS OF EQUIPMENT, FIXTURES AND DEVICES ARE INDICATED ON FLOOR AND REFLECTED CEILING PLANS, REFER TO STRUCTURAL AND ARCHITECTURAL PLANS FOR ELEVATION CHANGES AND RACEWAY ROUTES.

RACEWAY FOR EXTERIOR LIGHTING MAY BE INDICATED OUTSIDE OF BUILDING FOOTPRINT FOR CLARITY. ROUTE ALL EXTERIOR LIGHTING RACEWAY WITHIN BUILDING STRUCTURE.

POWER AND COMMUNICATIONS/DATA CONDUITS CAN CROSS AT 90°, BUT WHERE PARALLEL, SHALL BE A MINIMUM OF 8" APART.

TELEVISION AND RADIO ANTENNAS CABLES SHALL HAVE SURGE PROTECTION. GROUND ALL MASTS.

PROVIDE SURGE PROTECTION FOR ELECTRICAL AND TELEPHONE SERVICES.

PROVIDE TVSS FOR FIRE ALARM CONTROL PANEL.

FIELD COORDINATE MECHANICAL AND PLUMBING EQUIPMENT ELECTRICAL CHARACTERISTICS WITH DIV.15 CONTRACTOR PRIOR TO ROUGH-IN. ADJUST ELECTRICAL CONNECTIONS IF NECESSARY TO MATCH ACTUAL EQUIPMENT IN FIELD. FOR EXAMPLE, COORDINATE THE NAMEPLATE OVERCURRENT PROTECTION DEVICE RATING OF MECHANICAL EQUIPMENT AMONG MECHANICAL AND ELECTRICAL SUBCONTRACTORS. ADJUST CIRCUIT BREAKER TO MATCH NAMEPLATE RATING OF EQUIPMENT AT NO ADDITIONAL COST.

FIELD COORDINATE MECHANICAL AND PLUMBING EQUIPMENT REQUIREMENTS FOR ANY SUPPLEMENTAL POWER REQUIREMENTS, INCLUDING BUT NOT LIMITED TO CONTROL CIRCUITS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BRING ALL EQUIPMENT TO ITS INTENDED OPERATIONAL STATUS.

REFER TO FIRE PROTECTION DRAWINGS FOR LOCATIONS OF FLOW AND TAMPER SWITCHES.

EACH PENETRATION OF A FIRE RESISTANT RATED ASSYMBLY BY A PIPE, TUBE WIRE OR CONDUIT SHALL BE PROTECTED BY A THROUGH PENETRATION FIRE STOP SYSTEM THAT HAS BEEN TESTED ACCORDING TO ASTME 814 OR E199.

ELECTRIC RECEPTACLES, SWITCHES, OUTLETS, ETC. SHALL NOT BE INSTALLED BACK TO BACK ON FIRE RESISTANCE RATED WALLS. THEY SHALL BE AT LEAST 24-INCHES APART.

LIGHT SWITCHES AND ELECTRICAL OUTLETS, LOCATED IN ROOMS ACCESSIBLE TO THE DISABLED SHALL BE LOCATED NO HIGHER THAN 48 INCHES AND NO LOWER THAN 15 INCHES ABOVE THE FINISHED FLOOR SURFACE. IF THE REACH OR THE CONTROL IS OVER AN OBSTRUCTION, THE MINIMUM HEIGHT SHALL BE REACHED TO 44 INCHES FOR A FORWARD APPROACH OR 46 INCHES FOR A SIDE APPROACH.

REFER TO LOW VOLTAGE CONSULTANT'S DRAWINGS FOR VOICE, DATA AND CATV OUTLET LOCATIONS. REFER TO LV CONSULTANT'S DRAWINGS FOR ANY ADDITIONAL INFORMATION.

CONNECT ALL EXIT SIGNS TO NEAREST UNSWITCHED PORTION OF THE LIGHTING CIRCUIT IN THE AREA.

ELECTRICAL BOXES INSTALLED IN FIRE RATED WALLS SHALL MAINTAIN THE INTEGRITY OF THE RATED WALL.

SUPPORT ALL VERTICAL RACEWAY PER NEC TABLE 300.19(A).

MAKE ELECTRICAL CONNECTIONS TO ELECTRIC WATER COOLERS FROM GFCI PROTECTED OUTLET IN WALL BEHIND COOLER HOUSING. THE OUTLET AND CORD SHALL NOT BE VISIBLE FROM PUBLIC VIEW.

COORDINATE WITH CUTSHEETS OF ALL EQUIPMENT TO BE INSTALLED AND PROVIDE ADDITIONAL CIRCUITS FOR CONTROLS IF REQUIRED BY MANUFACTURER.

FINAL COLOR, FINISH AND OTHER AESTHETIC PORTIONS OF ALL DEVICES SHALL BE COORDINATED WITH ARCHITECT OR OWNER'S REPRESENTATIVE. THIS SET OF DRAWINGS DOES NOT SUPERCEDE ARCHITECTURAL OR INTERIOR DOCUMENTS.

ALL EXPOSED HORIZONTAL RUNS OF CONDUITS SHALL BE EITHER PARALLEL OR PERPENDICULAR TO EXTERIOR WALLS.

PROVIDE PLENUM RATED CABLES IF THE CABLES ARE EXPOSED AND ROUTED THROUGH PLENUM.

FOR ALL FUSES 1200A OR HIGHER, PROVIDE ARC ENERGY REDUCTION PER NEC 240.67.

LEGEND

SYMBOLS	DESCRIPTION	MOUNTING
	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	18" AFF
	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	42" AFF OR 6" ABOVE COUNTER TOP
	QUADRAPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	18" AFF
AC	QUADRAPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	42" AFF OR 6" ABOVE COUNTER TOP
	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	FLUSH WITH FINISHED FLOOR
	DUPLEX RECEPTACLE, 120V, 20A, NEMA 5-20R	IN CEILING
	SPECIAL RECEPTACLE, CONFIGURATION AND ELECTRICAL CHARACTERISTIC AS NOTED ON DWG	18" AFF
	JUNCTION BOX FLUSH IN WALL WITH COVER. SIZE PER NEC.	18" AFF
	JUNCTION BOX FLUSH IN CEILING WITH COVER. SIZE PER NEC.	IN CEILING
	JUNCTION BOX FLUSH IN FINSHED FLOOR WITH COVER. SIZE PER NEC.	FLUSH WITH FINISHED FLOOR
$	SWITCH	42" AFF
$ / $3	SWITCH -3 WAY	42" AFF
$ / $OS	SWITCH -WALL MTD, INTEGRAL OCCUPANCY SENSOR	42" AFF
$LV	SWITCH -WALL MTD, LOW VOLTAGE, PILOT LIGHT	42" AFF
$ / $D	SWITCH -WALL MTD, DIMMING	42" AFF
OS	SWITCH -CEILING MOUNTED OCCUPANCY SENSOR	IN CEILING
	TV OUTLET	18" AFF
▼	TELEPHONE OUTLET	18" AFF
▼	TELEPHONE OUTLET. SUBSCRIPT-F -FIREMAN'S PHONE, H -HOUSE PHONE, P -PAY PHONE	42" AFF OR 6" ABOVE COUNTER TOP
▼	TELEPHONE / DATA COMBINATION OUTLET	18" AFF
▼	TELEPHONE / DATA COMBINATION OUTLET	FLUSH WITH FINISHED FLOOR
▼	TELEPHONE / DATA COMBINATION OUTLET	42" AFF OR 6" ABOVE COUNTER TOP
▽	DATA OUTLET	18" AFF
▽	DATA OUTLET	42" AFF OR 6" ABOVE COUNTER TOP
	DISCONNECT SWITCH. SUBSCRIPT-AMP / # OF POLES / ENCLOSURE	AS INDICATED ON DWG
	FUSED DISCONNECT SWITCH. SUBSCRIPT-AMP / # OF POLES / ENCLOSURE / FUSE	AS INDICATED ON DWG
	ELECTRICAL PANELBOARD. REFER TO PANELBOARD SCHEDULE.	SURFACE MOUNTED ON WALL
■	EQUIPMENT AS NOTED ON DRAWING.	SURFACE MOUNTED ON WALL
M	MOTOR	
XX-#	HOME RUN WITH WIRE TICKS. XX -PANEL DESIGNATION, # -CIRCUIT DESIGNATION. WIRE TICKS -(1) NEUTRAL |, (3) HOT III -(1) GROUND •	
D / D	SMOKE DETECTOR. CEILING / WALL MOUNTED	
H / H	HEAT DETECTOR. CEILING/WALL MOUNTED	
☒	FIRE ALARM NOTIFICATION DEVICE. AUDIO AND VISUAL.	80" AFF
☒	FIRE ALARM NOTIFICATION DEVICE. AUDIO.	80" AFF
☒	FIRE ALARM NOTIFICATION DEVICE. VISUAL.	80" AFF
☒	FIRE ALARM INITIATION DEVICE. PULL STATION.	42" AFF

ABBREVIATIONS

AC	6" ABOVE COUNTER SPACE OR 42" AFF	IG	ISOLATED GROUND
AF	AMP FUSE	ISC	SHORT CIRCUIT CURRENT
AFF	ABOVE FINISHED FLOOR	LTG	LIGHTING
AL	ALUMINUM	MTD	MOUNTED
BFC	BELOW FINISHED CEILING	N	NEUTRAL
BKR	BREAKER	NL	NIGHT LIGHT
CND	CONDUIT	NEC	NATIONAL ELECTRICAL CODE
CONN	CONNECTED OR CONNECTION	PNL	PANEL
CTB	CABLE TV TERMINAL BACKBOARD	RECPT	RECEPTACLE
CU	COPPER	TEL	TELEPHONE
DN	DOWN	TTB	TELEPHONE TERMINAL BOARD
EC	EMPTY CONDUIT	TV	TELEVISION
ELEC	ELECTRICAL	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
FACP	FIRE ALARM CONTROL PANEL	TYP	TYPICAL
FAA	FIRE ALARM ANNUNCIATOR PANEL	XFMR	TRANSFORMER
G OR GRND	GROUND	UG	UNDERGROUND
GFCI OR GF	GROUND FAULT CIRCUIT INTERRUPTER	WP	WEATHERPROOF

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PROJECT NUMBER
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DATE
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SHEET NUMBER
E0.1

ADD ALTERNATE E UIPMENT SCHEDULE

CALLOUT	SYMBOL	VOLTS	KVA	BREAKER	CIRCUIT	WIRE CALLOUT	DISCONNECT DESCRIPTION
P		208V 3P 4W	2.49	20/3	B 2,4,6	1/2"C,3 12, 12N, 12G	30A/3P/NEMA 1

GENERAL NOTES

LABEL FIRE PUMP DISCONNECT SWITCH IN ACCORDANCE WITH NEC 695.4(B)(3)( ) AND LABEL FIRE PUMP CONTROLLER INDICATING LOCATION OF THIS DISCONNECT PER NEC 695.4(B)(3)(d).

DISCONNECT TO BE LOCKABLE IN CLOSED POSITION PER 695.4(B)(3)( )(3).

CONTRACTOR SHALL DESIGN THIS BUILDINGS SPRINKLER SYSTEM TO BE FED FROM FIRE PUMP LOCATED IN AD ACENT BUILDING AND UNDERGROUND TANKS. CONTRACTOR TO PROVIDE OWNER AN ADD ALTERNATE PRICING FOR THE INSTALLATION OF A FIRE PUMP DEDICATED TO THIS BUILDING, WITH ALL NECESSARY COMPONENTS. THIS SHALL BE PROVIDED AS A SEPARATE LINE ITEM TO THE BASE BID. REFER TO DRAWING FOR ADD ALTERNATE NOTES AND REFER TO ADD ALTERNATE SCHEDULE.

KEYNOTES

① CONDUCTORS SHALL BE ROUTED OUTSIDE OF BUILDING IN ACCORDANCE WITH NEC ARTICLE 230.6 UNTIL TERMINATION WITHIN FIRE PUMP CONTROLLER CABINET.

② DISCONNECTING MEANS SHALL BE RATED FOR FIRE PUMP SERVICE AND SERVICE ENTRANCE RATED.

P
A

ROOM
MOUNTING SURFACE
FED FROM DSC A
NOTE
VOLTS 208Y/120V 3P 4W
BUS AMPS 400
NEUTRAL 100
AIC 22,000
MAIN BKR MLO
LUGS STANDARD

CKT	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	200/3	54.0	ELEVATOR	2	20/1	0.0	SPACE
3				4	20/1	0.0	SPACE
5				6	20/1	1.0	TEL BACKBOARD
7	20/1	0.0	SHUNT TRIP	8	20/1	1.2	SIGNAGE
9	20/1	0.1	LIGHTING	10	20/1	0.7	KEYPAD, RECEPTACLE
11	25/2	3.5	CU 1	12	20/1	0.3	LIGHTING
13				14	30/2	4.8	MFCU 2, MHP 2
15	20/1	0.1	CAB LIGHTS	16			
17	20/2	1.2	SUMP PUMP	18	20/1	0.4	LIGHTING
19				20	20/1	0.2	RECEPTACLE
21	20/1	0.4	RECEPTACLE	22	20/1	1.1	SIGNAGE LETTERS, SIGNAGE LOGO
23	30/2	3.8	CU 2	24	20/2	3.0	EWH A
25				26			
27	30/2	3.8	CU 3	28	30/2	4.8	MFCU 3, MHP 3
29				30			
31	30/2	4.8	MFCU 1, MHP 1	32	20/2	3.0	EWH A
33				34			
35	20/1	1.2	FURN 1	36	20/1	1.3	RECEPTACLE
37	20/1	1.2	FURN 2	38	200/3	9.3	PANEL B
39	20/1	1.2	FURN 3	40			
41	35/1	3.0	DH 1	42			

	CONN KVA	CALC KVA	
LIGHTING	7.3	9.2	(125)
LARGEST MOTOR	54.0	13.5	(25)

	CONN KVA	CALC KVA	
MOTORS	95.6	95.6	(100)
RECEPTACLES	5.2	5.2	(50 10)
NONCONTINUOUS	1.0	1.0	(100)
TOTAL LOAD		124.5	
BALANCED 3 PHASE LOAD		345.6 A	
PHASE A		97.8	
PHASE B		95.2	
PHASE C		107	

P
B

ROOM
MOUNTING SURFACE
FED FROM A
NOTE
VOLTS 208Y/120V 3P 4W
BUS AMPS 200
NEUTRAL 100
AIC 22,000
MAIN BKR MLO
LUGS STANDARD

CKT	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	0.4	RECEPTACLE	2	20/3	2.5	OCKEY PUMP
3	20/1	0.0	SPACE	4			
5	20/1	1.3	RECEPTACLE	6			
7	20/1	0.0	SPACE	8	20/1	0.4	RECEPTACLE
9	20/1	1.3	LIGHTING	10	20/1	0.2	RECEPTACLE
11	20/1	0.3	LIGHTING	12	20/1	1.1	LIGHTING
13	20/1	0.3	LIGHTING	14	20/1	1.2	LIGHTING
15	20/1	0.0	SPACE	16	20/1	0.2	RECEPTACLE
17	20/1	0.4	RECEPTACLE	18	20/1	0.0	SPACE
19	20/1	0.0	SPACE	20	20/1	0.0	SPACE
21	20/1	0.0	SPACE	22	20/1	0.0	SPACE
23	20/1	0.0	SPACE	24	20/1	0.0	SPACE
25	20/1	0.0	SPACE	26	20/1	0.0	SPACE
27	20/1	0.0	SPACE	28	20/1	0.0	SPACE
29	20/1	0.0	SPACE	30	20/1	0.0	SPACE
31	20/1	0.0	SPACE	32	20/1	0.0	SPACE
33	20/1	0.0	SPACE	34	20/1	0.0	SPACE
35	20/1	0.0	SPACE	36	20/1	0.0	SPACE
37	20/1	0.0	SPACE	38	20/1	0.0	SPACE
39	20/1	0.0	SPACE	40	20/1	0.0	SPACE
41	20/1	0.0	SPACE	42	20/1	0.0	SPACE

	CONN KVA	CALC KVA	
LIGHTING	4.1	5.1	(125)
LARGEST MOTOR	2.5	0.6	(25)

	CONN KVA	CALC KVA	
MOTORS	2.5	2.5	(100)
RECEPTACLES	2.7	2.7	(50 10)
TOTAL LOAD		10.9	
BALANCED 3 PHASE LOAD		30.3 A	
PHASE A		97.5	
PHASE B		80.1	
PHASE C		122	

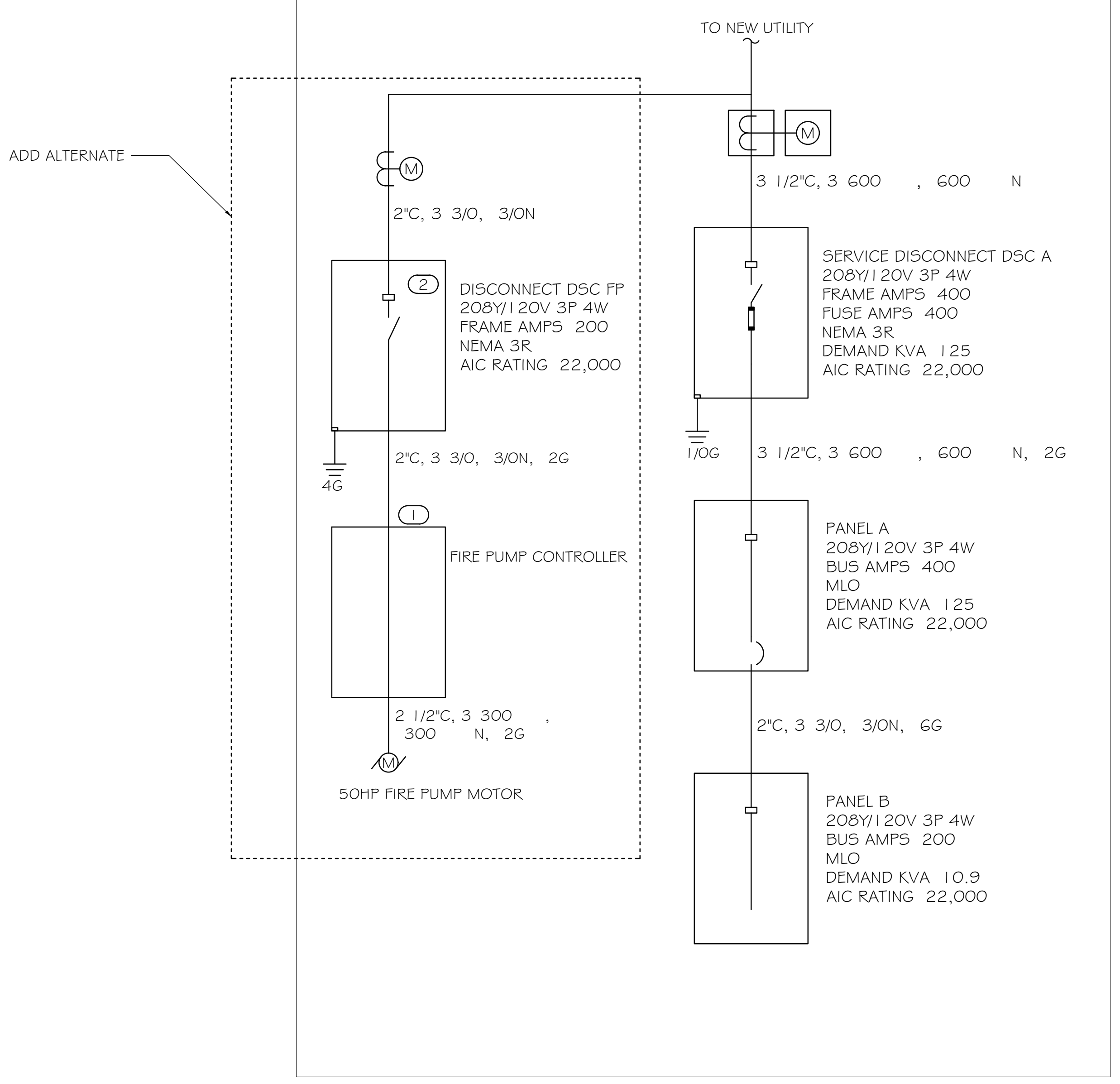
GENERAL SCHEDULE

CALLOUT	SYMBOL	VOLTS	KVA	BREAKER	CIRCUIT	WIRE CALLOUT	DISCONNECT DESCRIPTION
CU 1		208/120V 2P 3W	3.49	25/2	A 11,13	1/2"C,2 10, 10N, 10G	30A/2P/NEMA 3R
CU 2		208/120V 2P 3W	3.76	30/2	A 23,25	1/2"C,2 10, 10N, 10G	30A/2P/NEMA 3R
CU 3		208/120V 2P 3W	3.76	30/2	A 27,29	1/2"C,2 10, 10N, 10G	30A/2P/NEMA 3R
DH 1		120V 1P 2W	3	35/1	A 41	1/2"C,1 8, 8N, 10G	30A/1P/NEMA 1
E 1		208V 3P 4W	54.04	200/3	A 1,3,5	2"C,3 3/0, 3/0N, 6G	200A/3P/NEMA 4X/200
E B		120V 1P 2W	0.1	20/1	A 15	1/2"C,1 12, 12N, 12G	30/1P/NEMA 4X
ESP 1		208/120V 2P 3W	1.18	20/2	A 17,19	1/2"C,2 12, 12N, 12G	30/2P/NEMA 1
EWH A		208/120V 2P 3W	3	20/2	A 24,26	1/2"C,2 12, 12N, 12G	30A/2P/NEMA 1
EWH A		208/120V 2P 3W	3	20/2	A 32,34	1/2"C,2 12, 12N, 12G	30A/2P/NEMA 1
FURN 1		120V 1P 2W	1.18	20/1	A 35	1/2"C,1 12, 12N, 12G	30A/1P/NEMA 1
FURN 2		120V 1P 2W	1.18	20/1	A 37	1/2"C,1 12, 12N, 12G	30A/1P/NEMA 1
FURN 3		120V 1P 2W	1.18	20/1	A 39	1/2"C,1 12, 12N, 12G	30A/1P/NEMA 1
MFCU 1		208/120V 2P 3W	1.04	30/2	A 31,33	1/2"C,2 10, 10N, 10G	30A/2P/NEMA 1
MFCU 2		208/120V 2P 3W	1.04	30/2	A 14,16	1/2"C,2 10, 10N, 10G	30A/2P/NEMA 3R
MFCU 3		208/120V 2P 3W	1.04	30/2	A 28,30	1/2"C,2 10, 10N, 10G	30A/2P/NEMA 3R
MHP 1		208/120V 2P 3W	3.74	30/2	A 31,33	1/2"C,2 10, 10N, 10G	30A/2P/NEMA 3R
MHP 2		208/120V 2P 3W	3.74	30/2	A 14,16	1/2"C,2 10, 10N, 10G	30A/2P/NEMA 3R
MHP 3		208/120V 2P 3W	3.74	30/2	A 28,30	1/2"C,2 10, 10N, 10G	30A/2P/NEMA 3R

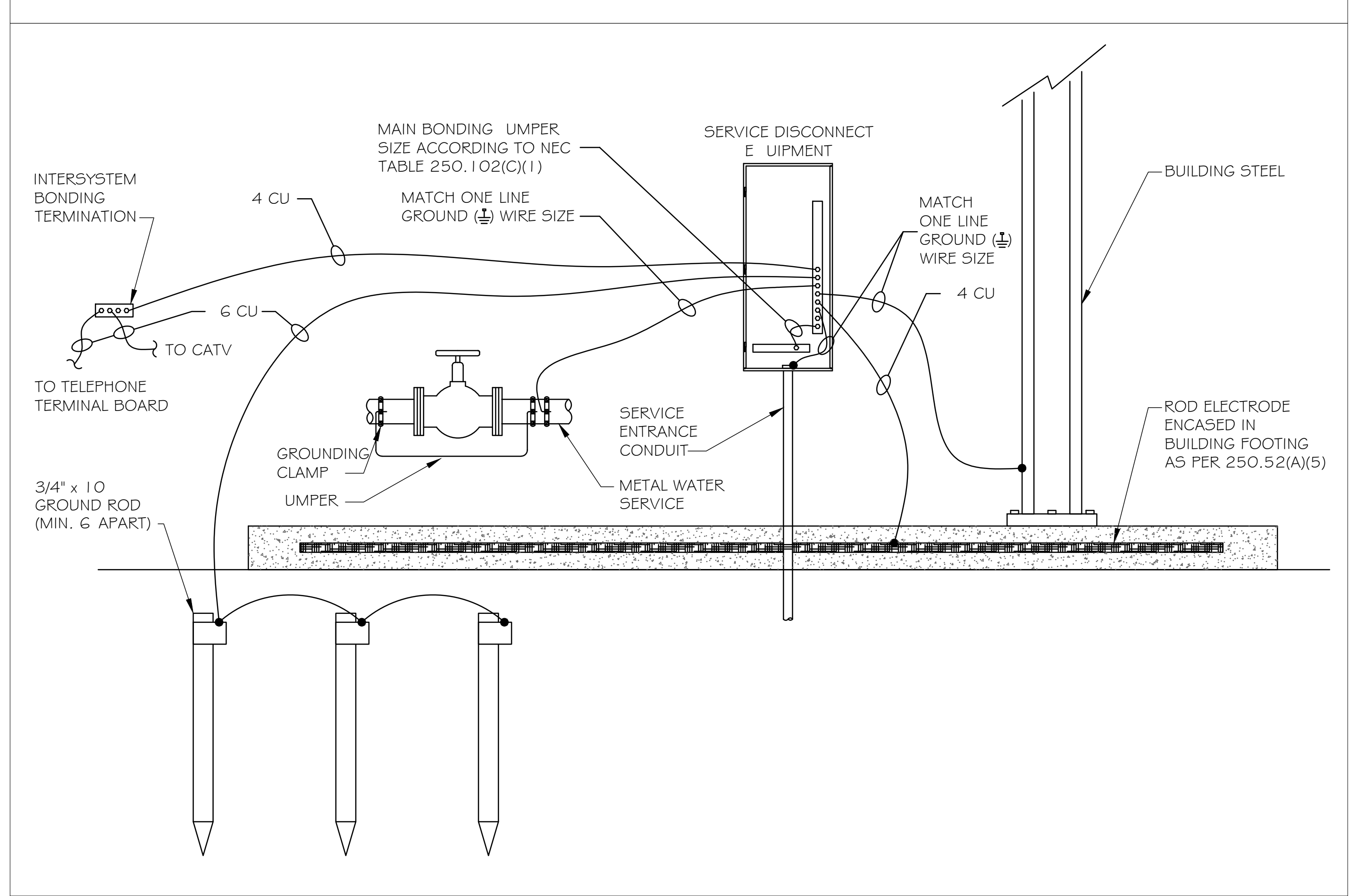
STORAGE LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	LAMP	DESCRIPTION	MODEL	VOLTS
A	○	(1) 42W LED	4 STRIP WITH OCCUPANCY SENSOR AND WIREGUARD WALL MTD @ 7 6" AFF	COLUMBIA MPS4 50ML CW EDU NXS MPSWG4	120V 1P 2W
A1	○	(1) 42W LED	4 STRIP WITH INTEGRAL OCCUPANCY SENSOR AND WIREGUARD SUSPENDED @ 9 AFF	COLUMBIA MPS4 50ML CW EDU NXS MPSWG4	120V 1P 2W
AE	●	(1) 42W LED	4 STRIP WITH EMERGENCY BATTERY, INTEGRAL OCCUPANCY SENSOR AND WIREGUARD WALL MTD @ 7 6" AFF	COLUMBIA MPS4 50ML CW EDU ELL14 NXS MPSWG4	120V 1P 2W
AE1	●	(1) 42W LED	4 STRIP WITH EMERGENCY BATTERY, INTEGRAL OCCUPANCY SENSOR AND WIREGUARD SUSPENDED @ 9 AFF	COLUMBIA MPS4 50ML CW EDU ELL14 NXS MPSWG4	120V 1P 2W
OA	◓	(1) 73W LED	LED EXTERIOR WALL PACK	LSI INDUSTRIES, INC XWM FT LED 12L 30 VOLTS COLOR	120V 1P 2W
OE	◓	(1) 50W LED	EXTERIOR WALL PACK W/ EMERGENCY BATTERY WHITE COLOR	LITHONIA WST LED1 10A700/40K SR4 120 ELCW SF DDBXD	120V 1P 2W
	⊣	(1) LED	ELEVATOR PIT LIGHT	BEGHELLI BS100LED 4HT LO WT40 120 277	120V 1P 2W
S	⊣	(1) 42W LED	WALL MOUNTED LED W/ EMERGENCY BATTERY, INTEGRAL OCCUPANCY SENSOR AND WIREGUARD WALL MTD @ 8 0"	COLUMBIA LBIL 4 40 ML E U 120 ELL14 LCLWG4	120V 1P 2W
X	⊗	(1) 5W LED	THERMOPLASTIC EXIT SIGN WITH BACKUP BATTERY	LITHONIA L M S W 3 R 120/277 EL N	120V 1P 2W

ONE LINE DIAGRAM



GROUNDING AND BONDING DETAIL


INTERSYSTEM BONDING TERMINATION
4 CU
6 CU
TO CATV
TO TELEPHONE TERMINAL BOARD
MAIN BONDING UMPER SIZE ACCORDING TO NEC TABLE 250.102(C)(1)
MATCH ONE LINE GROUND (⏚) WIRE SIZE
SERVICE DISCONNECT E UIPMENT
MATCH ONE LINE GROUND (⏚) WIRE SIZE
4 CU
BUILDING STEEL
GROUNDING CLAMP
UMPER
METAL WATER SERVICE
SERVICE ENTRANCE CONDUIT
ROD ELECTRODE ENCASED IN BUILDING FOOTING AS PER 250.52(A)(5)
3/4" x 10 GROUND ROD (MIN. 6 APART)

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9-28-22

SHEET NUMBER
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COM*check* Software Version 4.1.5.3
Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2007) Standard
Project Title: LIFE STORAGE #230
Project Type: New Construction

Construction Site:
1639 ROUTE 22
BREWSTER, NY 10509

Owner/Agent:

Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Warehouse	18000	0.80	14400
		Total Allowed Watts =	14400

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Warehouse				
LED: AE: 4' STRIP WITH EMERGENCY BATTERY: Other:	1	22	42	924
LED: A (STORAGE): 4' STRIP WITH OCCUPANCY SENSOR: Other:	1	51	42	2142
LED: A1: 4' STRIP WITH INTEGRAL OCCUPANC: Other:	1	6	42	252
LED: S: WALL MOUNTED LED W/ EMERGENCY B: Other: Electronic:	1	12	42	504
LED: AE1: 4' STRIP WITH EMERGENCY BATTERY: Other:	1	4	42	168
LED: OE: EXTERIOR WALL PACK W/ EMERGENCY: Other: Electronic:	1	3	50	150
LED: OA: LED EXTERIOR WALL PACK: Other: Electronic:	1	8	73	584
		Total Proposed Watts =		4724

Interior Lighting PASSES: Design 67% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2007) Standard requirements in COM*check* Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Brian M. Armenta -PE
Name - Title

Signature

10/03/2022
Date

COM*check* Software Version 4.1.5.3
Inspection Checklist

Energy Code: 90.1 (2007) Standard

Requirements: 89.0% were addressed directly in the COM*check* software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
4.2.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
8.4.1.1, 8.4.1.2 [PR6][2]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
9.4.1.1 [EL1][2]	Automatic controls to shut off all building lighting installed in buildings >5,000 ft2.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
9.4.1.2 [EL2][2]	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.4.1.4 [EL4][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.4.2 [EL5][3]	Ballasted one and three lamp fixtures with >30 W/lamp have two lamp tandem wired ballasts when >=2 fixtures in same space on same control.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.4.3 [EL6][1]	Exit signs do not exceed 5 watts per face.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.6.2 [EL8][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
8.7.1 [FI16][3]	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
8.7.2 [FI17][3]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.2.2.3 [FI18][1]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Interior Lighting fixture schedule for values.*

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

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GENERAL NOTES

REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES.

ALL RECEPTACLES SHALL BE GROUNDED AS RE UIRED BY ARTICLE 250 146.

PROVIDE UNSWITCHED HOT LEG OF CIRCUIT TO EMERGENCY LIGHTING AND EXIT SIGNS.

EXTERIOR FIXTURES SHALL BE CONNECTED TO LIGHTING CONTROL PANEL AND SHALL BE TIME CLOCK CONTROLLED UNLESS OTHERWISE NOTED.

LIGHTS LABELED NL ARE NIGHT LIGHTS.

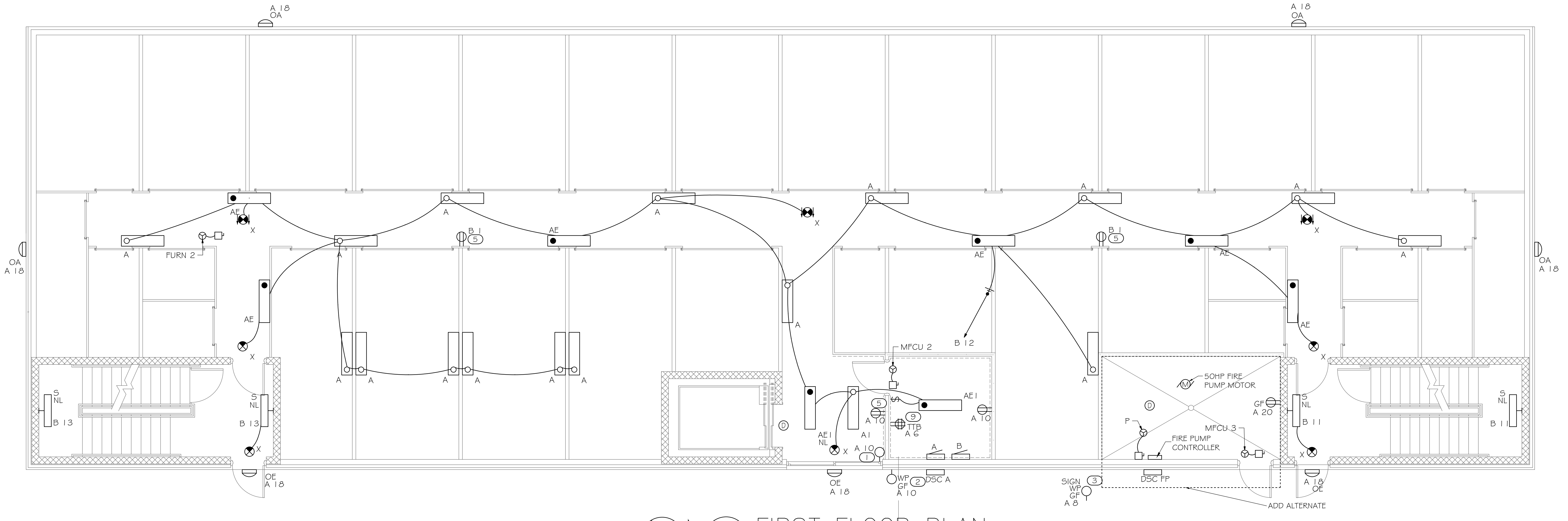
COORDINATE ALL PROGRAMMING OF LIGHTING CONTROL SYSTEMS WITH OWNER PRIOR TO DEVELOPMENT OF CLOSE OUT DOCUMENTS.

AUTOMATIC CONTROLS TO SHUT OFF ALL BUILDING LIGHTING INSTALLED IN ALL BUILDINGS. FIELD COORDINATE EXACT RE UIREMENT WITH OWNERS REPRESENTATIVE FOR THE SHUTOFF OPERATION. TIMECLOCK OR VACANCY SENSORS.

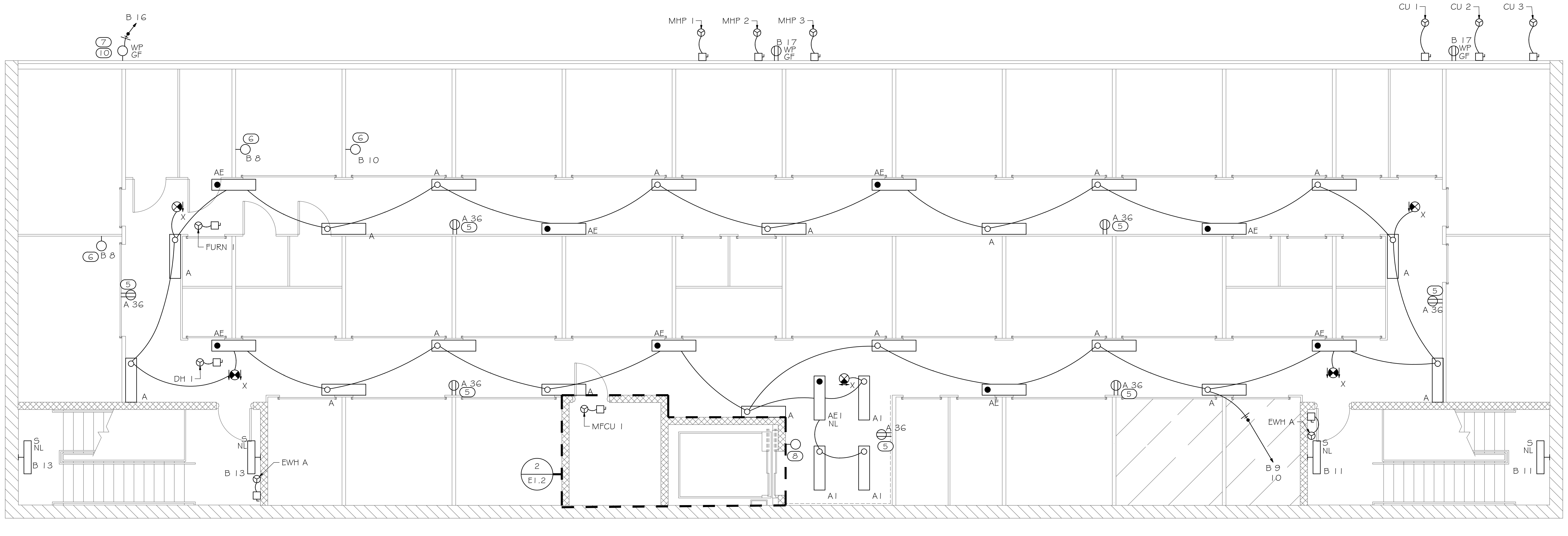
CONTRACTOR SHALL DESIGN THIS BUILDINGS SPRINKLER SYSTEM TO BE FED FROM FIRE PUMP LOCATED IN AD ACENT BUILDING AND UNDERGROUND TANKS. CONTRACTOR TO PROVIDE OWNER AN ADD ALTERNATE PRICING FOR THE INSTALLATION OF A FIRE PUMP DEDICATED TO THIS BUILDING, WITH ALL NECESSARY COMPONENTS. THIS SHALL BE PROVIDED AS A SEPARATE LINE ITEM TO THE BASE BID. REFER TO DRAWING FOR ADD ALTERNATE NOTES AND REFER TO ADD ALTERNATE SCHEDULE.

KEYNOTES

1. UNCTION BOX FOR SLIDING GLASS DOOR. COORDINATE EXACT LOCATION IN FIELD WITH DOOR INSTALLER.
2. PROVIDE UNCTION BOX FOR POWER TO KEYPAD. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION IN FIELD.
3. MONUMENT SIGNAGE. COORDINATE EXACT LOCATION AND RE UIREMENTS WITH ARCHITECT AND CIVIL ENGINEER. CONTROLLED VIA TIMECLOCK AND PHOTOCELL.
4. LOCATE RECEPTACLE BY EACH FURN FOR POWER FOR CONDENSATE PUMP. FIELD COORDINATE EXACT LOCATION.
5. PROVIDE RECEPTACLES IN CORRIDORS LOCATED AT 7 AFF WITH LOCKABLE COVERS.
6. PROVIDE DEDICATED POWER FOR HANDICAPPED DOOR MOTOR. FIELD COORDINATE EXACT LOCATION. TYPICAL.
7. UNCTION BOX TO POWER HEAT TRACE FOR CONDENSATE RISER. FIELD COORDINATE EXACT RE UIREMENT AND LOCATION WITH INSTALLER.
8. PROVIDE UNCTION BOX FOR CALL BOX. PROVIDE UNCTION BOX AND CONDUIT WITH PULL STRING TO HALLWAY SYSTEM.
9. ROUTE (2) 2" C FROM TELEPHONE UTILITY DEMARCATION POINT WITH PULL STRING.
10. POWER FOR HEAT TRACE. CONTRACTOR TO COORDINATE EXACT RE UIREMENT AND LOCATION.



2 E1.1 FIRST FLOOR PLAN
SCALE: 3/16" = 1'-0"



1 E1.1 LOWER LEVEL PLAN
SCALE: 3/16" = 1'-0"

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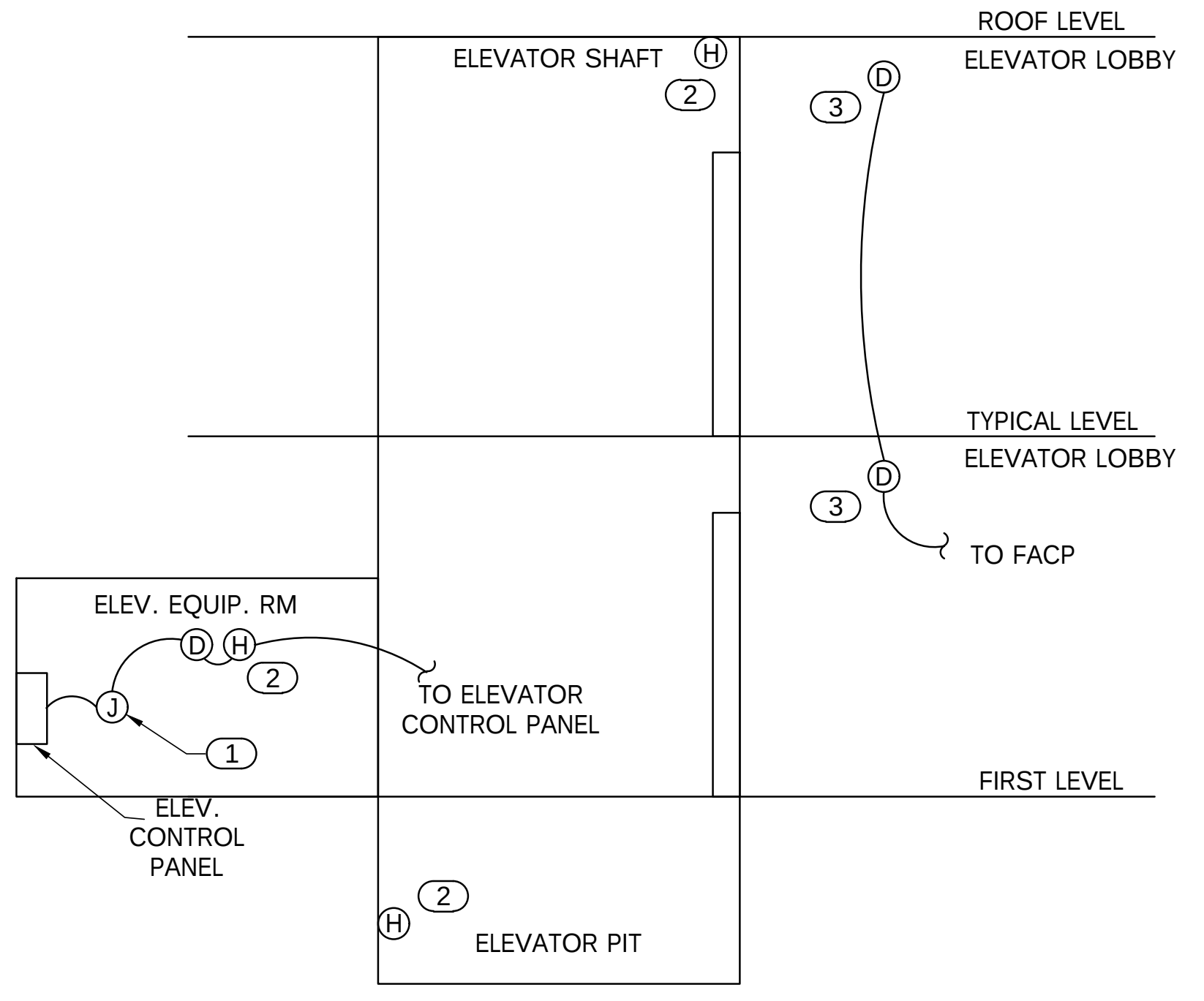
ELEVATOR FIRE ALARM RECALL SEQUENCE



KEYNOTES:

① FIRE ALARM DATA GATHERING POINT MONITORING SHUNT TRIP VOLTAGE SOURCE.

② HEAT DETECTORS CHARACTERISTICS SHALL BE FULLY COORDINATED WITH SPRINKLER HEAD CHARACTERISTIC AND SHALL BE MOUNTED WITHIN 24" OF SPRINKLER HEADS.

③ ELEVATOR LOBBY SMOKE DETECTORS SHALL BE INSTALLED WITHIN 21' OF THE CENTERLINE OF EACH ELEVATOR DOOR.

GENERAL NOTES:

1. ELEVATOR RECALL PHASE 1
   - 1.1. CONTROL MODULE 1: RECALL ELEVATOR TO ALTERNATE FLOOR IF SMOKE DETECTOR IN LOBBY OF DESIGNATED FLOOR IS IN ALARM.
   - 1.2. CONTROL MODULE 2: RECALL ELEVATOR TO DESIGNATED FLOOR.
2. ELEVATOR SHUTDOWN
   - 2.1. CONTROL MODULE 3: RECALL ELEVATOR TO NEAREST SAFE FLOOR. ACTIVATED BY SMOKE DETECTORS IN ELEVATOR EQUIPMENT ROOM.
   - 2.2. CONTROL MODULE 4: SHUT DOWN POWER TO ELEVATOR. ACTIVATED BY HEAT DETECTOR IN ELEVATOR EQUIPMENT ROOM
3. VERIFY ALL CONTROL MODULE PROGRAMMING INCLUDING ALTERNATE AND DESIGNATED FLOOR WITH AHJ.
4. PROVIDE ADDITIONAL PIT LIGHTING ON CIRCUIT AND SWITCH TO PROVIDE ASME A17.1 REQUIRED 10 FOOTCANDLE LIGHT LEVEL. PROVIDE SAME MANUFACTURER AND MODEL AS EXISTING. IF NOT AVAILABLE, PROVIDE APPROVED EQUAL.

GENERAL NOTES

REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES.

ALL RECEPTACLES SHALL BE GROUNDED AS REQUIRED BY ARTICLE 250-146.

PROVIDE UNSWITCHED HOT LEG OF CIRCUIT TO EMERGENCY LIGHTING AND EXIT SIGNS.

EXTERIOR FIXTURES SHALL BE CONNECTED TO LIGHTING CONTROL PANEL AND SHALL BE TIME CLOCK CONTROLLED UNLESS OTHERWISE NOTED.

LIGHTS LABELED NL ARE NIGHT LIGHTS.

CONTRACTOR SHALL ENSURE SELECTIVE COORDINATION IS MAINTAINED FOR ELEVATOR CIRCUITS.

PROVIDE 1-1/2" C WITH PULL STRING FROM ELECTRICAL ROOM TO ELEVATOR MACHINE ROOM FOR LOW VOLTAGE.

ALL CABLES AND WIRES BEING ROUTED IN PLENUM SPACES NOT IN CONDUITS SHALL BE PLENUM RATED.

COORDINATE ALL PROGRAMMING OF LIGHTING CONTROL SYSTEMS WITH OWNER PRIOR TO DEVELOPMENT OF CLOSE-OUT DOCUMENTS.

AUTOMATIC CONTROLS TO SHUT OFF ALL BUILDING LIGHTING INSTALLED IN ALL BUILDINGS. FIELD COORDINATE EXACT REQUIREMENT WITH OWNER'S REPRESENTATIVE FOR THE SHUTOFF OPERATION. TIMECLOCK OR VACANCY SENSORS.

KEYNOTES

① GFCI DUPLEX RECEPTACLE. PROVIDE ONE AT THE PIT AND ANOTHER AT THE TOP OF THE SHAFT.

② LIGHTING SHALL NOT BE CONNECTED TO LOAD SIDE OF GFCI RECEPTACLE. PROVIDE LIGHTING FIXTURES AT THE PIT AND AT THE TOP OF THE SHAFT.

③ ELEVATOR CONTROL PANEL. SEE ELEVATOR FIRE ALARM RECALL SEQUENCE.

④ 30A/1P/NEMA1DISCONNECT SWITCH FOR ELEVATOR CAB LIGHTING AND FAN.

⑤ PROVIDE LIGHT SWITCHES AT PIT LEVEL AND AT TOP OF THE SHAFT. EACH SWITCH SHALL CONTROL EACH RESPECTIVE LIGHT FIXTURE.

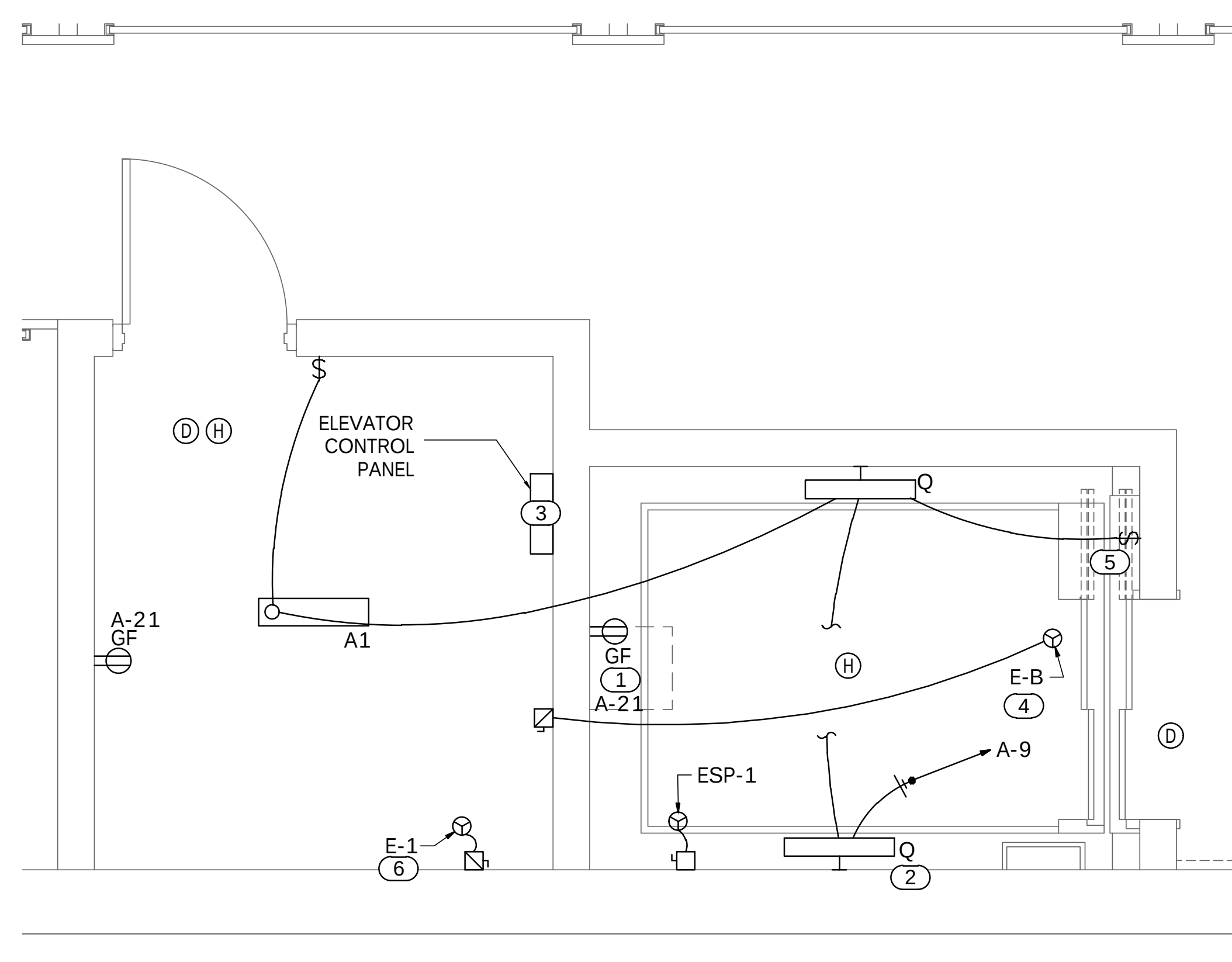
⑥ 200A/3P/NEMA 4X EQUIPMENT DISCONNECT SWITCH FOR ELEVATOR MOTOR.

⑦ PROVIDE JUNCTION BOX FOR CALL BOX. PROVIDE JUNCTION BOX AND CONDUIT WITH PULL STRING TO HALLWAY SYSTEM.

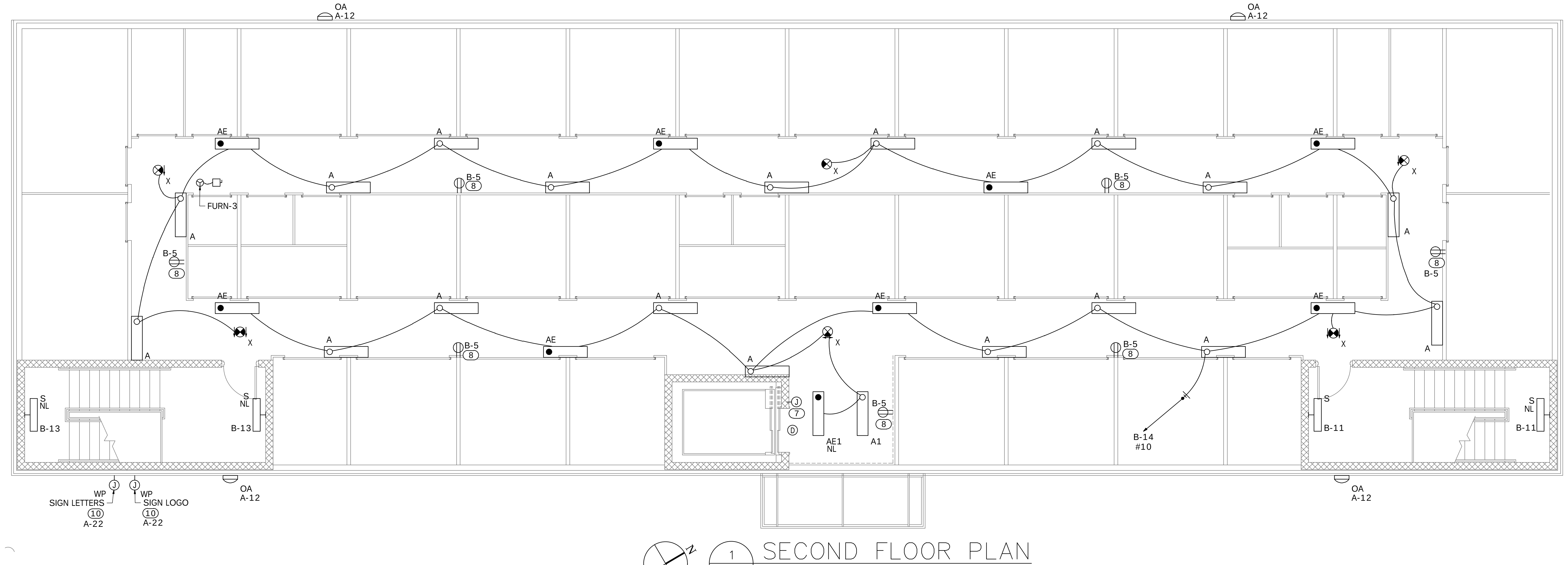
⑧ PROVIDE RECEPTACLES IN CORRIDORS LOCATED AT 7' AFF WITH LOCKABLE COVERS.

⑨ LOCATE RECEPTACLE BY EACH FURN FOR POWER FOR CONDENSATE PUMP. FIELD COORDINATE EXACT LOCATION.

⑩ WEATHERPROOF J-BOX FOR EXTERIOR SIGN. COORDINATE IN FIELD WITH SIGN INSTALLER FOR LOCATION AND OTHER REQUIREMENTS. EXTERIOR SIGN TO BE CONTROLLED BY LIGHTING CONTACTOR WITH PHOTOCELL AND TIMER.



2
E1.2
ENLARGED ELEVATOR PLAN
SCALE: 3/8" = 1'-0"



1
E1.2
SECOND FLOOR PLAN
SCALE: 3/16" = 1'-0"

BRIAN M. ARMENTA
090276

PROFICIENT
ENGINEERING
6991 Peachtree Industrial Blvd Building 700
Peachtree Corners, Georgia 30092
404.330.9798
PROJECT # 120185

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Life Storage #230
Self Storage Phase II

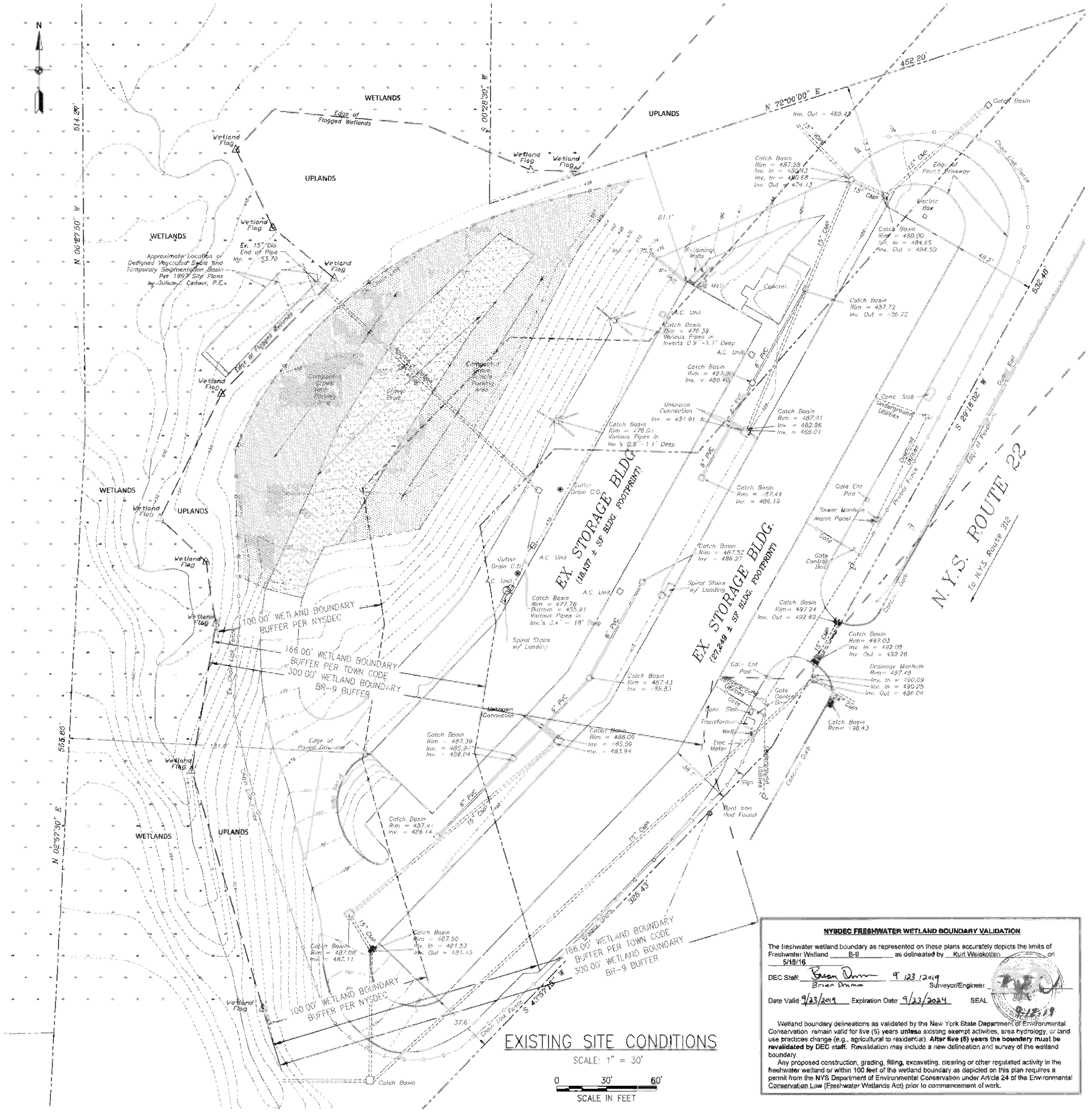
1639 Route 22
Brewster, NY 10509

STINARD
ARCHITECTURE
INC
cartersville ga 30120
217 s. erwin street
770.425.7400 (F) 770.425.7400
STINARDARCH.COM

ISSUE: FOR CONSTRUCTION
REVISIONS:

PROJECT NUMBER
201941
DATE
9-28-22

SHEET NUMBER
E1.2



EXISTING SITE CONDITIONS

SCALE: 1" = 30'

0 30' 60'

SCALE IN FEET

NYSDEC FRESHWATER WETLAND BOUNDARY VALIDATION

The freshwater wetland boundary as represented on these plans accurately depicts the limits of Freshwater Wetland B-9 as delineated by Kurt Weiskotten on 5/18/16

DEC Staff: Brian Drumm 9/23/2019

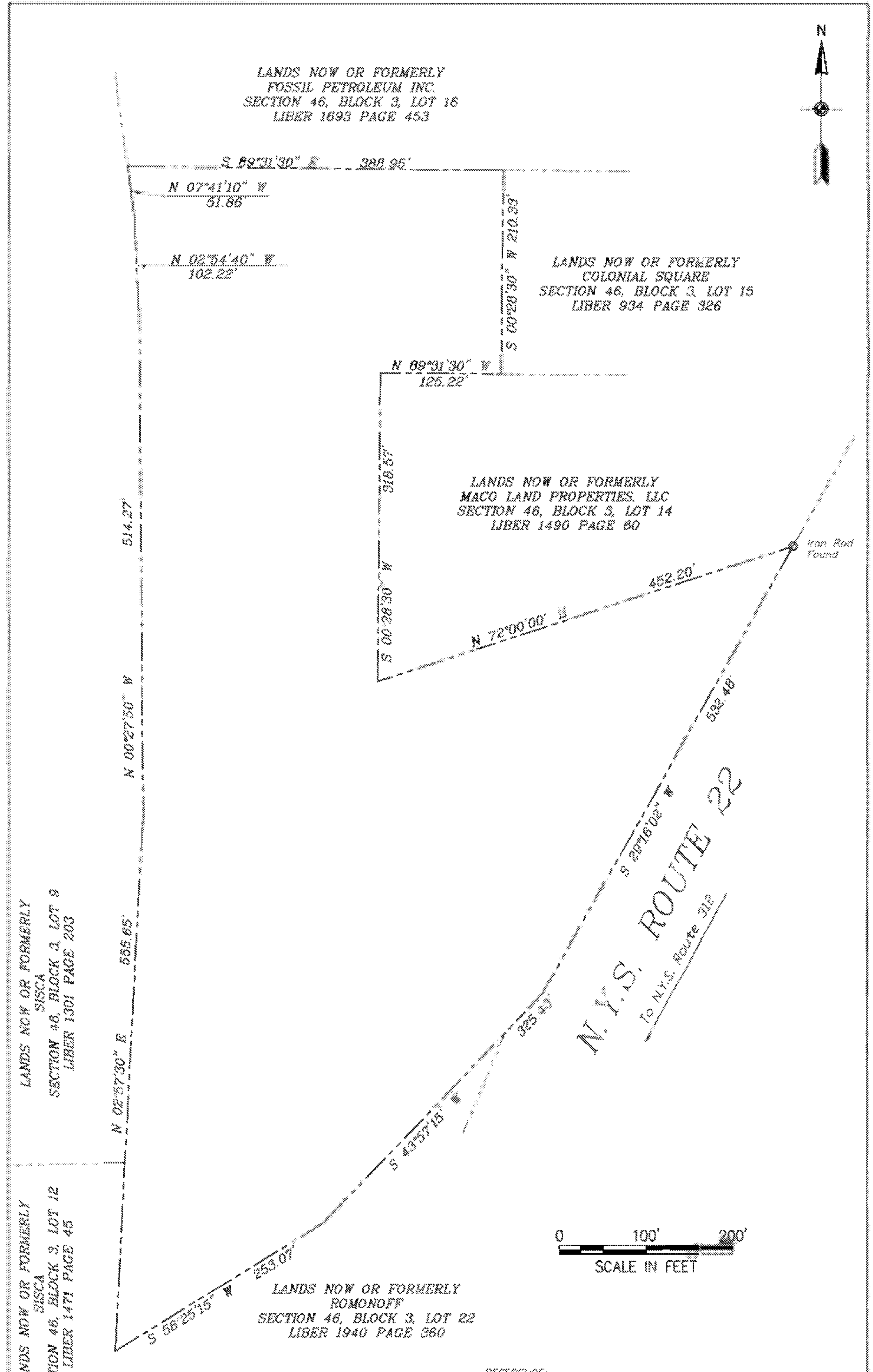
Brian Drumm

Surveyor/Engineer:

Date Valid 9/23/2019 Expiration Date 9/23/2024 SEAL

Wetland boundary delineations as validated by the New York State Department of Environmental Conservation remain valid for five (5) years **unless** existing exempt activities, area hydrology, or land use practices change (e.g., agricultural to residential). **After five (5) years the boundary must be revalidated by DEC staff.** Revalidation may include a new delineation and survey of the wetland boundary.

Any proposed construction, grading, filling, excavating, clearing or other regulated activity in the freshwater wetland or within 100 feet of the wetland boundary as depicted on this plan requires a permit from the NYS Department of Environmental Conservation under Article 24 of the Environmental Conservation Law (Freshwater Wetlands Act) prior to commencement of work.


N
LANDS NOW OR FORMERLY FOSSIL PETROLEUM INC. SECTION 46, BLOCK 3, LOT 16 LIBER 1693 PAGE 453
S 89°31'30" E 388.95'
N 07°41'10" W 51.86'
N 02°54'40" W 102.22'
LANDS NOW OR FORMERLY COLONIAL SQUARE SECTION 46, BLOCK 3, LOT 15 LIBER 934 PAGE 326
S 00°28'30" W 210.33'
N 89°31'30" W 125.22'
S 00°28'30" W 318.57'
LANDS NOW OR FORMERLY MACO LAND PROPERTIES, LLC SECTION 46, BLOCK 3, LOT 14 LIBER 1490 PAGE 60
N 72°00'00" E 452.20'
Iron Rod Found
N 00°27'50" W 514.27'
N 02°57'30" E 555.65'
LANDS NOW OR FORMERLY SISCA SECTION 46, BLOCK 3, LOT 9 LIBER 1301 PAGE 203
LANDS NOW OR FORMERLY SISCA SECTION 46, BLOCK 3, LOT 12 LIBER 1471 PAGE 45
S 29°16'02" W 532.48'
N.Y.S. ROUTE 22
To N.Y.S. Route 312
S 43°57'15" W 325.43'
S 56°25'15" W 253.07'
LANDS NOW OR FORMERLY ROMONOFF SECTION 46, BLOCK 3, LOT 22 LIBER 1940 PAGE 360
0 100' 200'
SCALE IN FEET

SURVEY NOTES:

1. CERTIFICATIONS INDICATED HEREON SIGNIFY THAT THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE EXISTING CODE OF PRACTICE FOR LAND SURVEYORS ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS. SAID CERTIFICATIONS SHALL RUN ONLY TO THOSE NAMED INDIVIDUALS AND/OR INSTITUTIONS, THEIR SUCCESSORS AND/OR ASSIGNS OR SUBSEQUENT OWNERS.
2. UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYORS SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE N.Y. STATE EDUCATION LAW. ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYORS INKED SEAL OR HIS EMBOSSED DEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES.
3. SUBJECT TO AND UP TO DATE ABSTRACT OF TITLE. SUBJECT TO UNDERGROUND UTILITIES AND EASEMENTS NOT RECORDED AND/OR NOT VISIBLE AT TIME OF FIELD SURVEY.

REFERENCE:
BEING PARCEL No 1 ON A MAP ENTITLED "SUBDIVISION PLAT OF SOUTHEAST CENTER LOCATED AT ROUTE 22", FILED IN THE PUTNAM COUNTY CLERKS OFFICE ON OCTOBER 9, 1986, AS MAP # 2172.

TAX MAP DESIGNATION:
SECTION 46, BLOCK 3 LOT 13

DEED REFERENCE:
LIBER 1537 PAGE 318

TOTAL ACREAGE:
435,599 SQ. FT.
10.00± ACRES

TO BE A TRUE SURVEY COMPLETED IN THE FIELD ON MAY 25, 2016 AND THAT IT IS TO THE BEST OF MY KNOWLEDGE AND BELIEF CORRECT.

DANIEL P. YANOSH L.L.S.
N.Y.S. LIC. # 48561

JUNE 1, 2018
CERTIFIED TO:
LOCKE PREFERRED EQUITY, LLC.

PROPERTY SURVEY

SCALE: 1" = 100'

NOTE:

- WETLANDS DELINEATED BY GREENMAN-PEDERSEN, INC. MAY 18, 2016
- SURVEY LOCATED WETLAND BOUNDARY ON MAY 25, 2016

RECEIVED
SEP 16 2019
Natural Resources
NYSDEC Region 3 - New Paltz

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Engineering and Construction Services
in Western New York
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GPI

SCALE	AS NOTED	DRAWN BY:	C.Y.
DATE:	SEPTEMBER 16, 2019	CHECKED BY:	T.W.
DWG NO.: EX-1		JOB NO.	BUF-2015049.041
NO	REVISIONS:	BY	DATE

EX-1_EXISTING SITE CONDITIONS & SURVEY

LIFE STORAGE, INC.
(SITE #230 BREWSTER)
TOWN OF SOUTHEAST - PUTNAM COUNTY, NY

SHEET NO.
03

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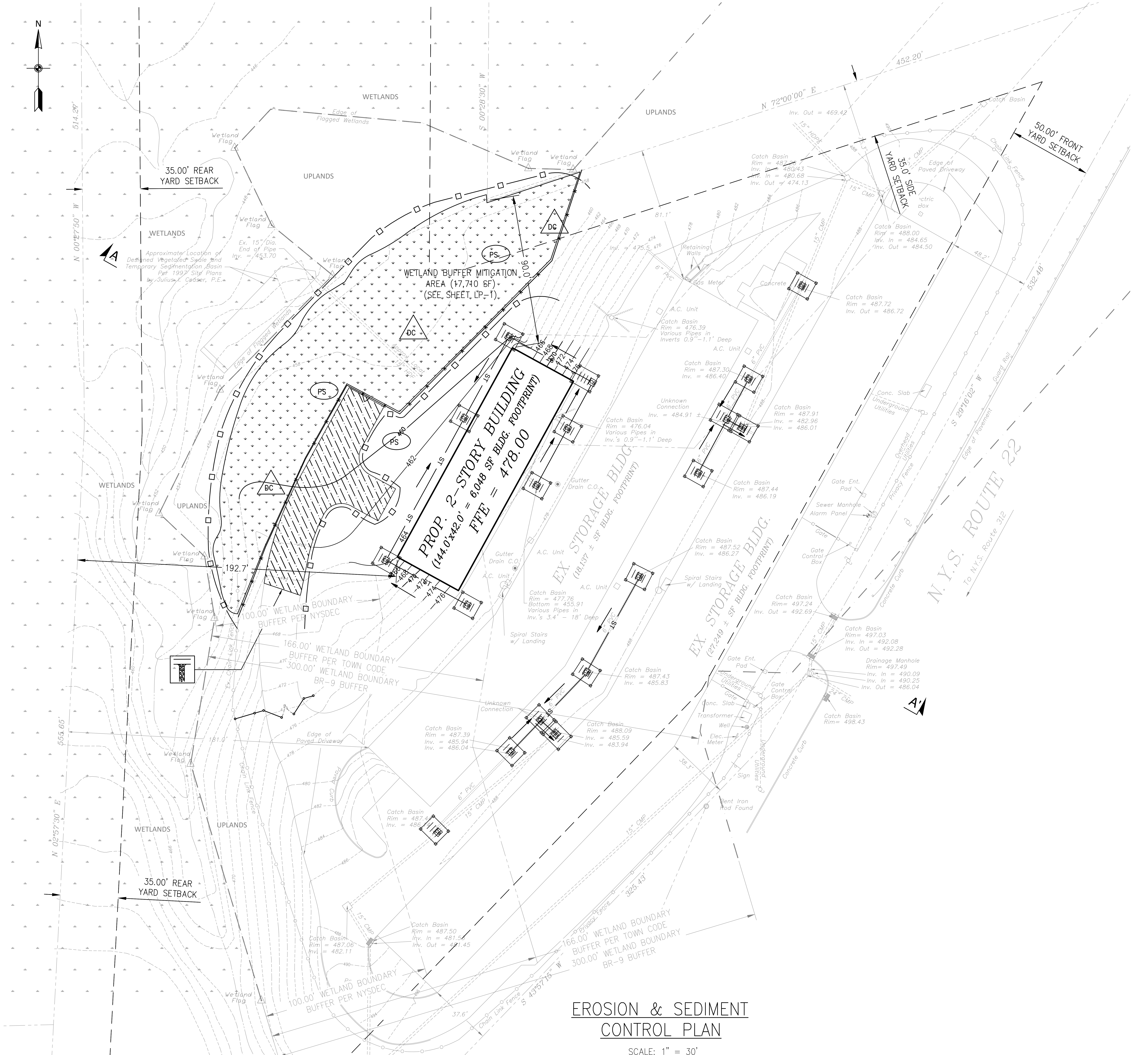
N
WETLANDS
UPLANDS
35.00' REAR YARD SETBACK
50.00' FRONT YARD SETBACK
35.0' SIDE YARD SETBACK
N 72°00'00" E
452.20'
WETLAND BUFFER MITIGATION AREA (17,740 SF) (SEE SHEET LP-1)
PS
DC
PROP. 2-STORY BUILDING (144.0'x42.0' = 6,048 SF BLDG. FOOTPRINT) FFE = 478.00
EX. STORAGE BLDG. (18,137 ± SF BLDG. FOOTPRINT)
EX. STORAGE BLDG. (27,219 ± SF BLDG. FOOTPRINT)
N.Y.S. ROUTE 22
To N.Y.S. Route 312
100.00' WETLAND BOUNDARY BUFFER PER NYSDEC
166.00' WETLAND BOUNDARY BUFFER PER TOWN CODE
300.00' WETLAND BOUNDARY BR-9 BUFFER
192.7'
A
A'
Approximate Location of Designed Vegetated Swale and Temporary Sedimentation Basin Per 1997 Site Plans by Julius J. Ceccher, P.E.

EROSION & SEDIMENT CONTROL PLAN

SCALE: 1" = 30'

0 30' 60'
SCALE IN FEET

LEGEND

CHECK DAM	◄◄◄
FILTER FABRIC/ FILTER BAG DROP INLET PROTECTION	▥
LAND GRADING	
SILT FENCE	–□–
TEMPORARY SEEDING	TS
STABILIZED CONSTRUCTION ENTRANCE	T
PERMANENT SEEDING	PS
DUST CONTROL	DC
INLET/OUTLET PROTECTION	CULV
TOPSOILING	▨

NOTE:

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.

CONTRACTOR SHALL NOT BEGIN DISTURBANCE UNTIL SPDES PERMIT IS OBTAINED FROM NYSDEC

NOTE:

CONTRACTOR SHALL MAINTAIN ACCESS FOR PATRONS, EMPLOYEES AND EMERGENCY SERVICE VEHICLES TO THE EXISTING STORAGE BUILDINGS. PROVIDE TEMPORARY FENCING AS NEEDED DURING CONSTRUCTION TO MAINTAIN A SECURED SITE.

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STATE OF NEW YORK
GREENMAN PEDERSEN, INC.
LICENSED PROFESSIONAL ENGINEER
No. 131

SCALE:	AS NOTED	DRAWN BY:	C.Y.
DATE:	SEPTEMBER 16, 2019	CHECKED BY:	T.W.
DWG NO.: ECP-1		JOB NO.:	BUF-2015049.041

NO.	REVISIONS:	BY	DATE

ECP-1_EROSION & SEDIMENT CONTROL PLAN

LIFE STORAGE, INC.
(SITE #230 BREWSTER)
TOWN OF SOUTHEAST - PUTNAM COUNTY, NY

SHEET NO.
06

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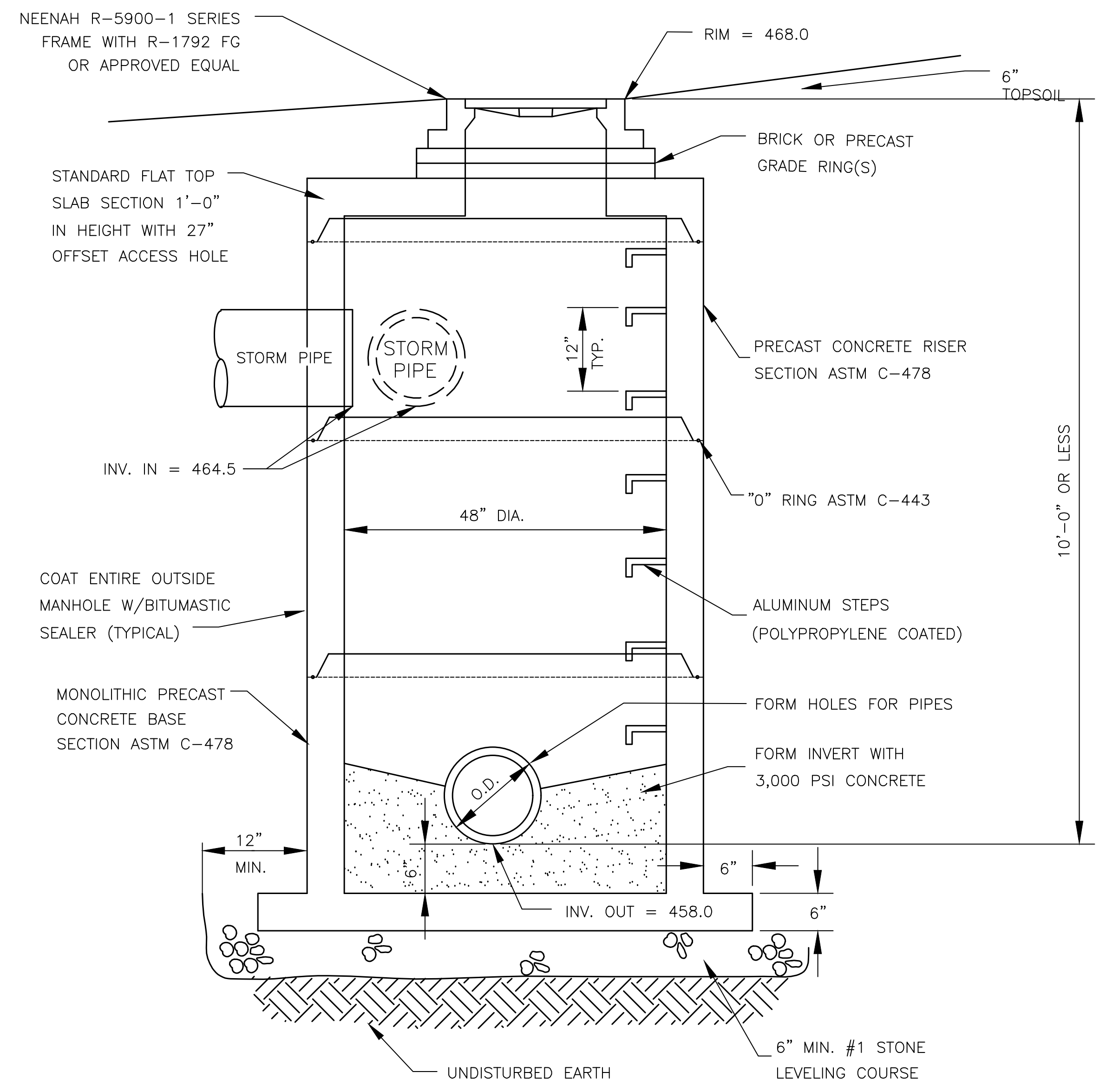
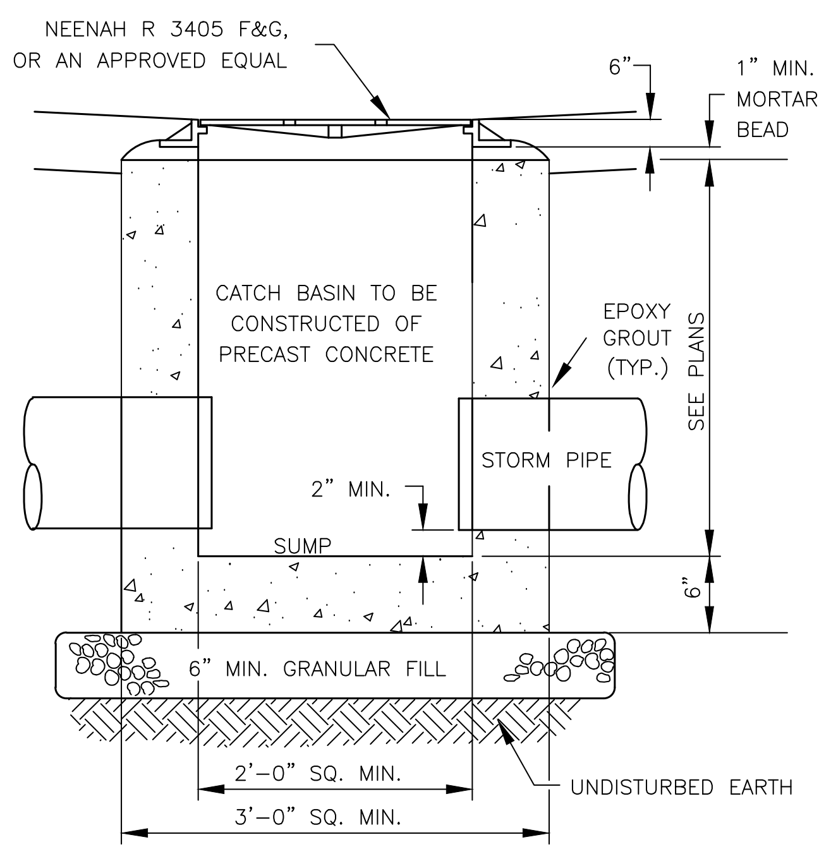

NEENAH R-5900-1 SERIES FRAME WITH R-1792 FG OR APPROVED EQUAL
RIM = 468.0
6" TOPSOIL
BRICK OR PRECAST GRADE RING(S)
STANDARD FLAT TOP SLAB SECTION 1'-0" IN HEIGHT WITH 27" OFFSET ACCESS HOLE
STORM PIPE
STORM PIPE
12" TYP.
PRECAST CONCRETE RISER SECTION ASTM C-478
INV. IN = 464.5
"0" RING ASTM C-443
10'-0" OR LESS
48" DIA.
COAT ENTIRE OUTSIDE MANHOLE W/BITUMASTIC SEALER (TYPICAL)
ALUMINUM STEPS (POLYPROPYLENE COATED)
MONOLITHIC PRECAST CONCRETE BASE SECTION ASTM C-478
FORM HOLES FOR PIPES
FORM INVERT WITH 3,000 PSI CONCRETE
O.D.
12" MIN.
6"
6"
6"
INV. OUT = 458.0
UNDISTURBED EARTH
6" MIN. #1 STONE LEVELING COURSE

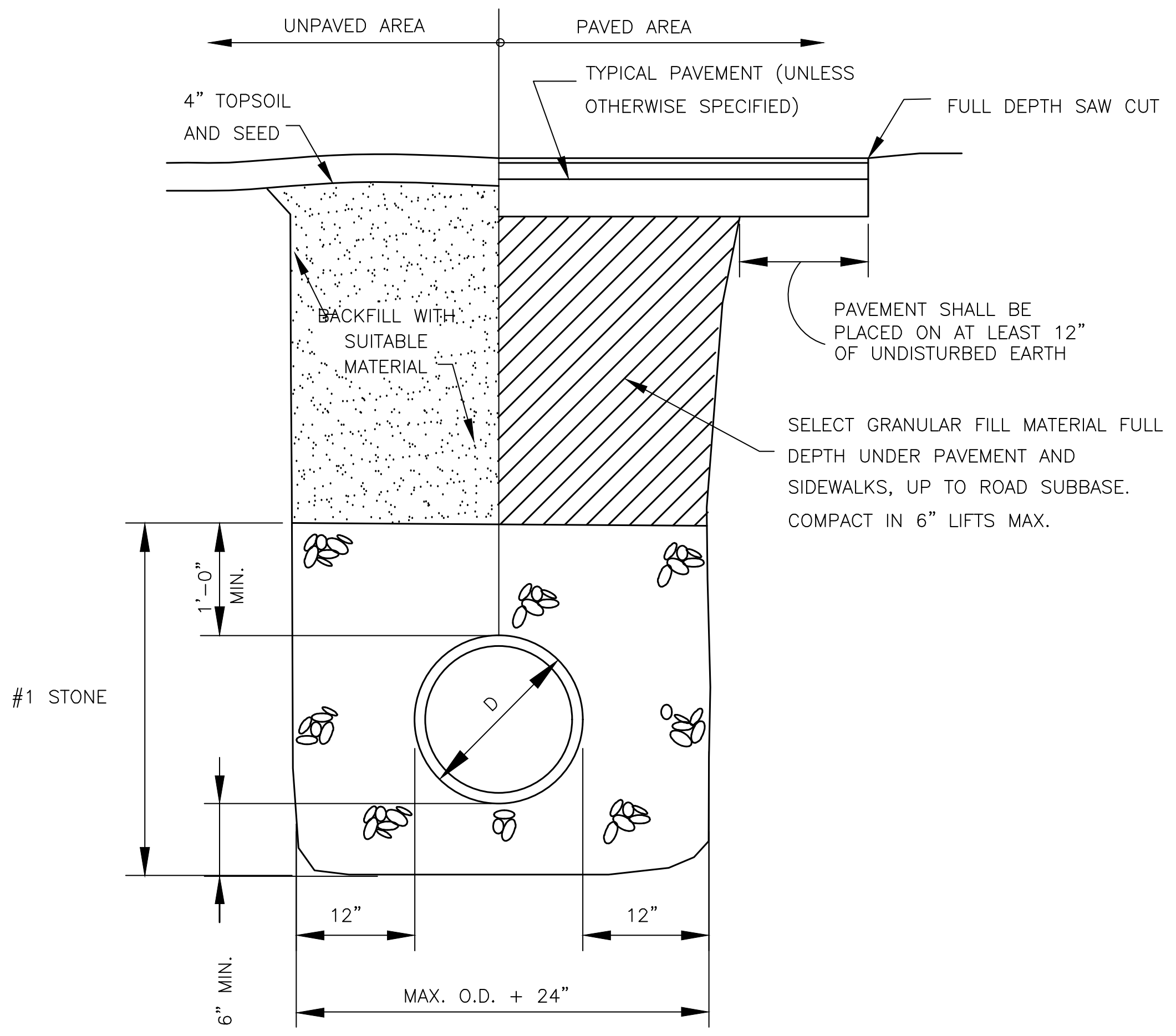
STORM SEWER MANHOLE DETAIL

(N.T.S.)



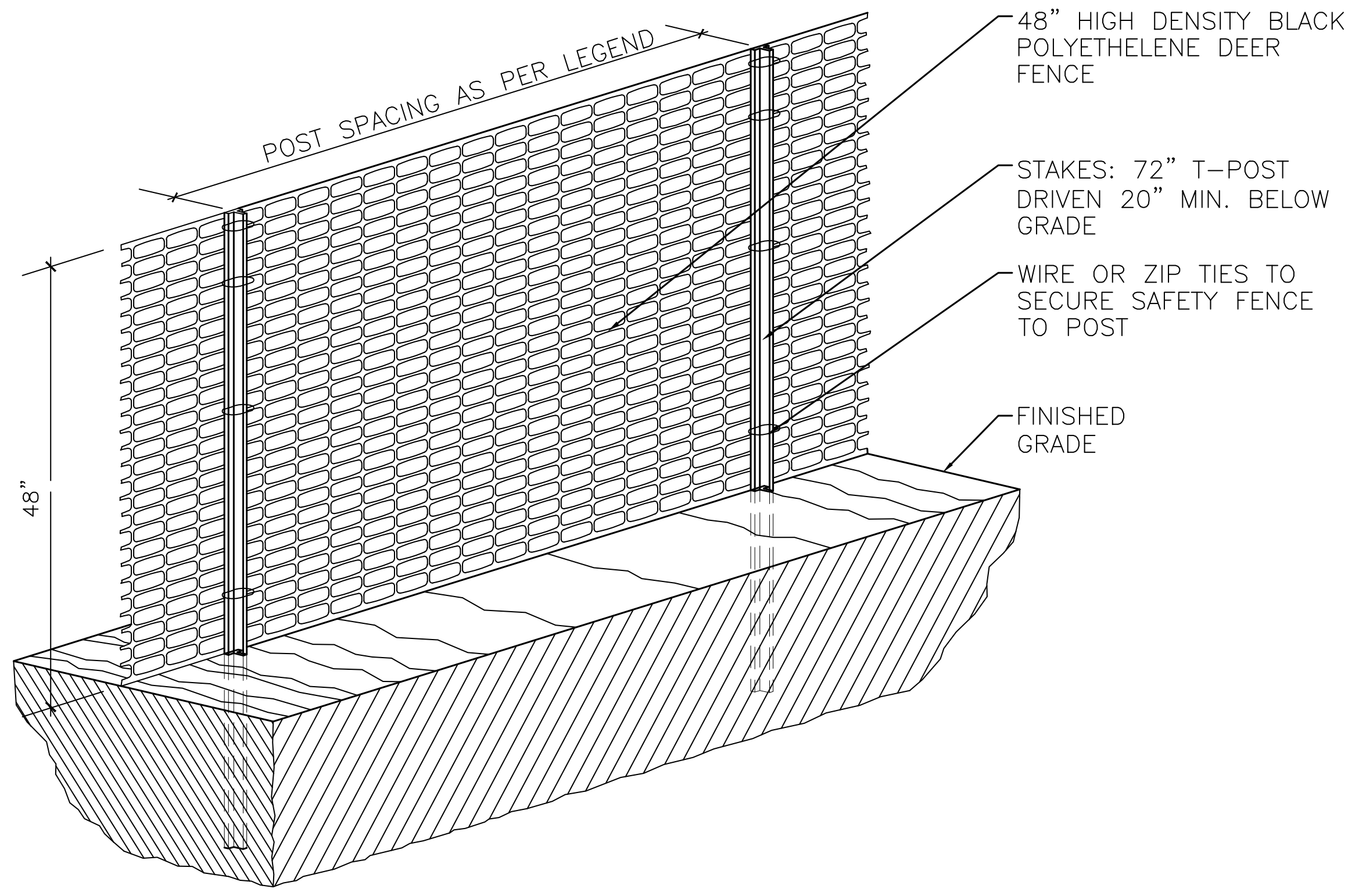
SECTION 'A'-'A'
TYPICAL CATCH BASIN DETAIL

(N.T.S.)


UNPAVED AREA
PAVED AREA
TYPICAL PAVEMENT (UNLESS OTHERWISE SPECIFIED)
4" TOPSOIL AND SEED
FULL DEPTH SAW CUT
BACKFILL WITH SUITABLE MATERIAL
PAVEMENT SHALL BE PLACED ON AT LEAST 12" OF UNDISTURBED EARTH
SELECT GRANULAR FILL MATERIAL FULL DEPTH UNDER PAVEMENT AND SIDEWALKS, UP TO ROAD SUBBASE. COMPACT IN 6" LIFTS MAX.
1'-0" MIN.
#1 STONE
D
12"
12"
6" MIN.
MAX. O.D. + 24"

TYPICAL TRENCH DETAIL

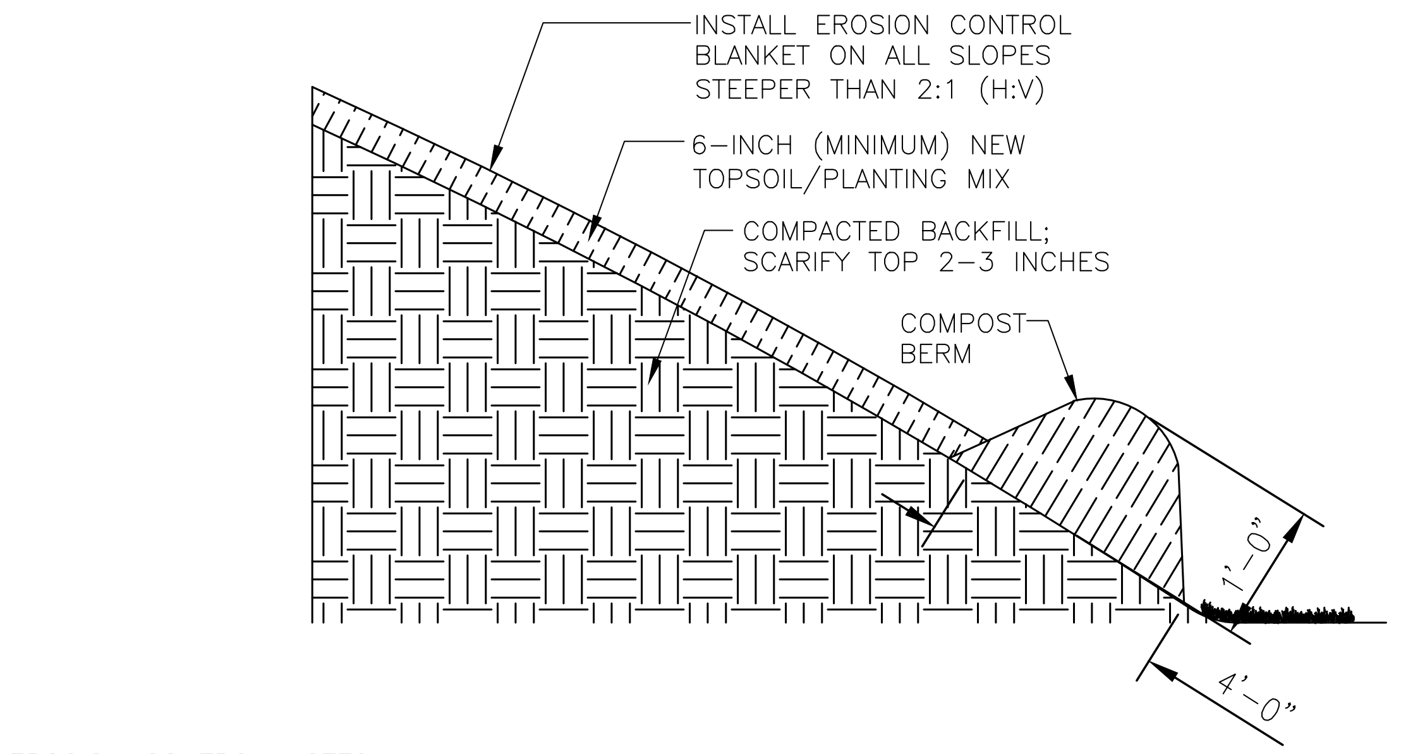
(N.T.S.)


POST SPACING AS PER LEGEND
48" HIGH DENSITY BLACK POLYETHELENE DEER FENCE
STAKES: 72" T-POST DRIVEN 20" MIN. BELOW GRADE
WIRE OR ZIP TIES TO SECURE SAFETY FENCE TO POST
FINISHED GRADE
48"

BLACK DEER BARRIER FENCE DETAIL

(N.T.S.)

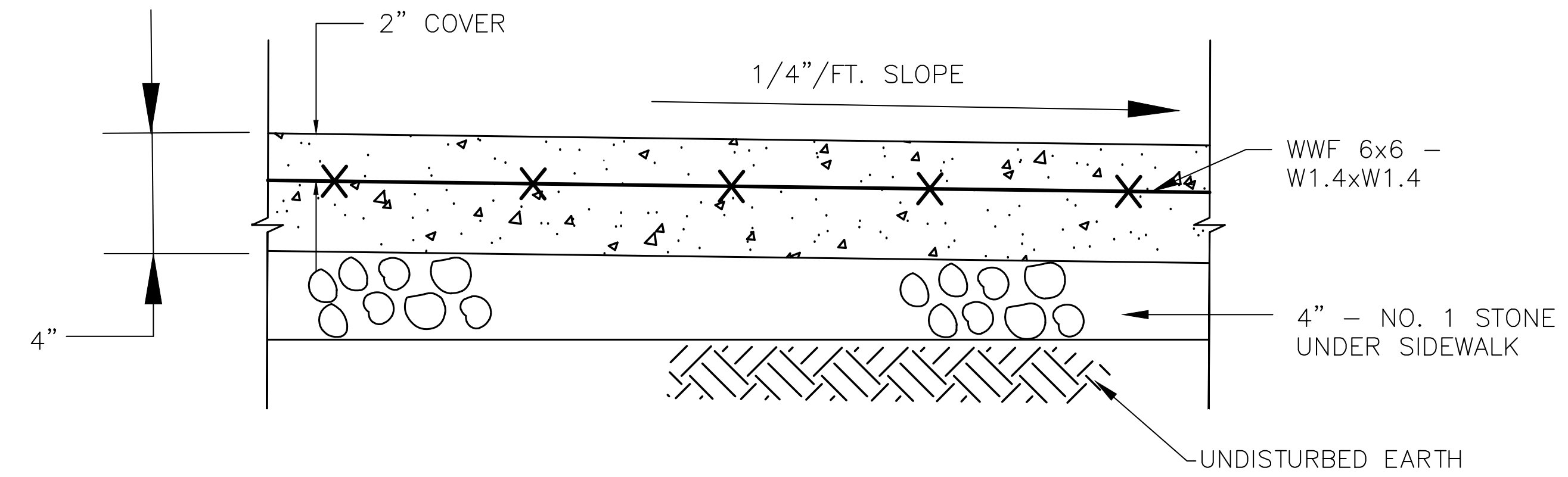
DEER FENCING NOTES:
1. ALL SENSITIVE AREAS SHALL BE PROTECTED AS PER PLAN.
2. DEER FENCE SHOULD BE FASTENED SECURELY TO THE T-POSTS.
3. THE FENCING MUST REMAIN IN PLACE A MINIMUM OF THREE YEARS; ANY CHANGE OF THE PROTECTIVE FENCING MUST BE APPROVED.


INSTALL EROSION CONTROL BLANKET ON ALL SLOPES STEEPER THAN 2:1 (H:V)
6-INCH (MINIMUM) NEW TOPSOIL/PLANTING MIX
COMPACTED BACKFILL; SCARIFY TOP 2-3 INCHES
COMPOST BERM
1'-0"
4'-0"

EROSION CONTROL NOTES:
1. ON SLOPES BETWEEN 2:1 AND 1.5:1 (H:V) THE CONTRACTOR SHALL INSTALL BIONET S150BN BIODEGRADABLE EROSION CONTROL BLANKETS AS MANUFACTURED BY NORTH AMERICAN GREEN, OR SIMILAR PRODUCT TO BE APPROVED BY GEOTECHNICAL ENGINEER, OVER THE 6" LAYER OF PLANTING MIX.
2. BLANKETS SHALL BE SECURED PER MANUFACTURER'S INSTRUCTIONS.

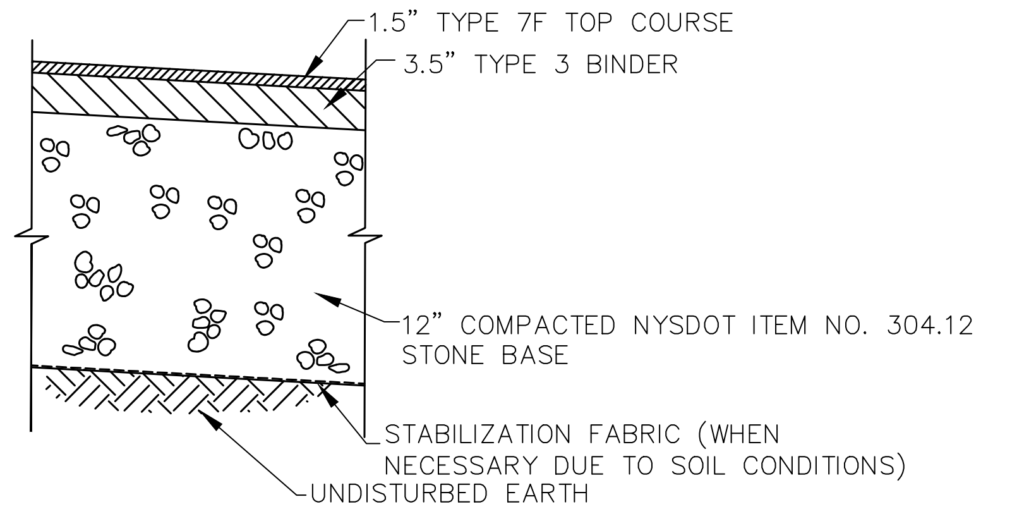
EROSION CONTROL DETAIL

(N.T.S.)



CONCRETE SIDEWALK DETAIL

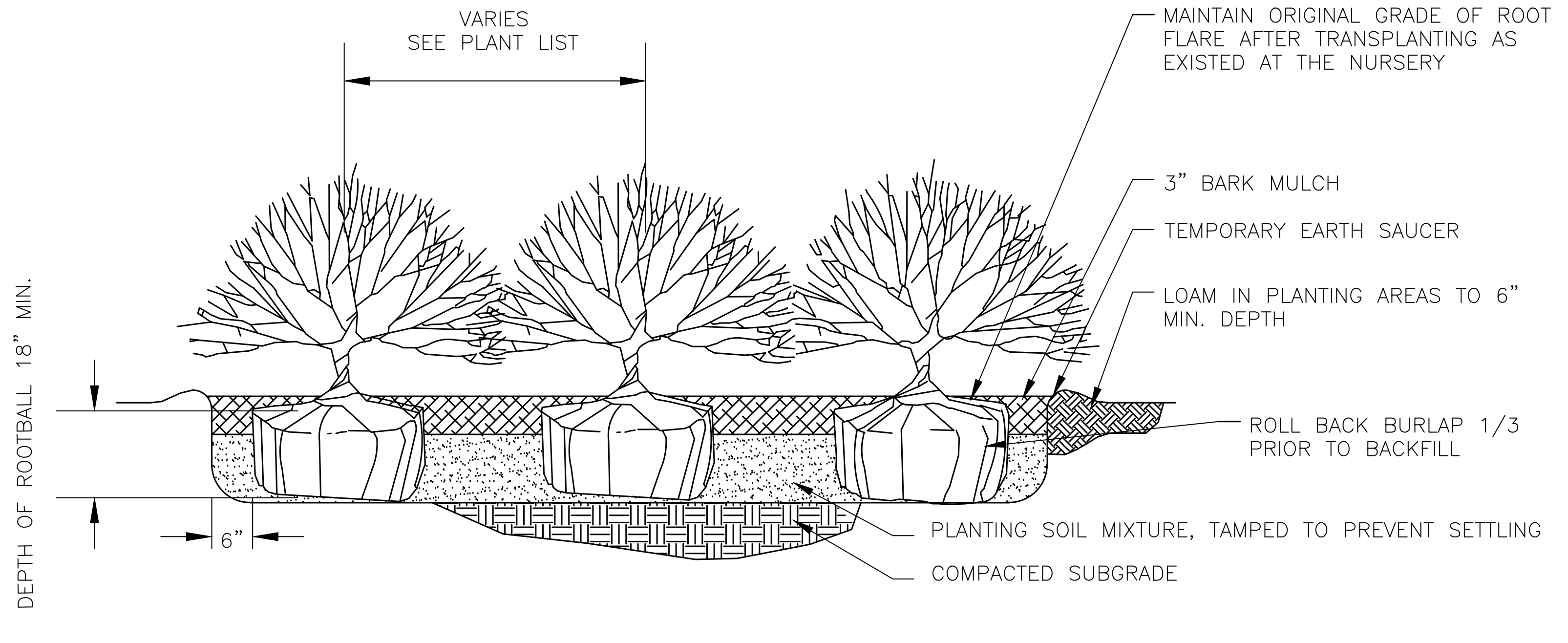
(N.T.S.)


1.5" TYPE 7F TOP COURSE
3.5" TYPE 3 BINDER
12" COMPACTED NYSDOT ITEM NO. 304.12 STONE BASE
STABILIZATION FABRIC (WHEN NECESSARY DUE TO SOIL CONDITIONS)
UNDISTURBED EARTH

TYPICAL PAVEMENT SECTION DETAIL

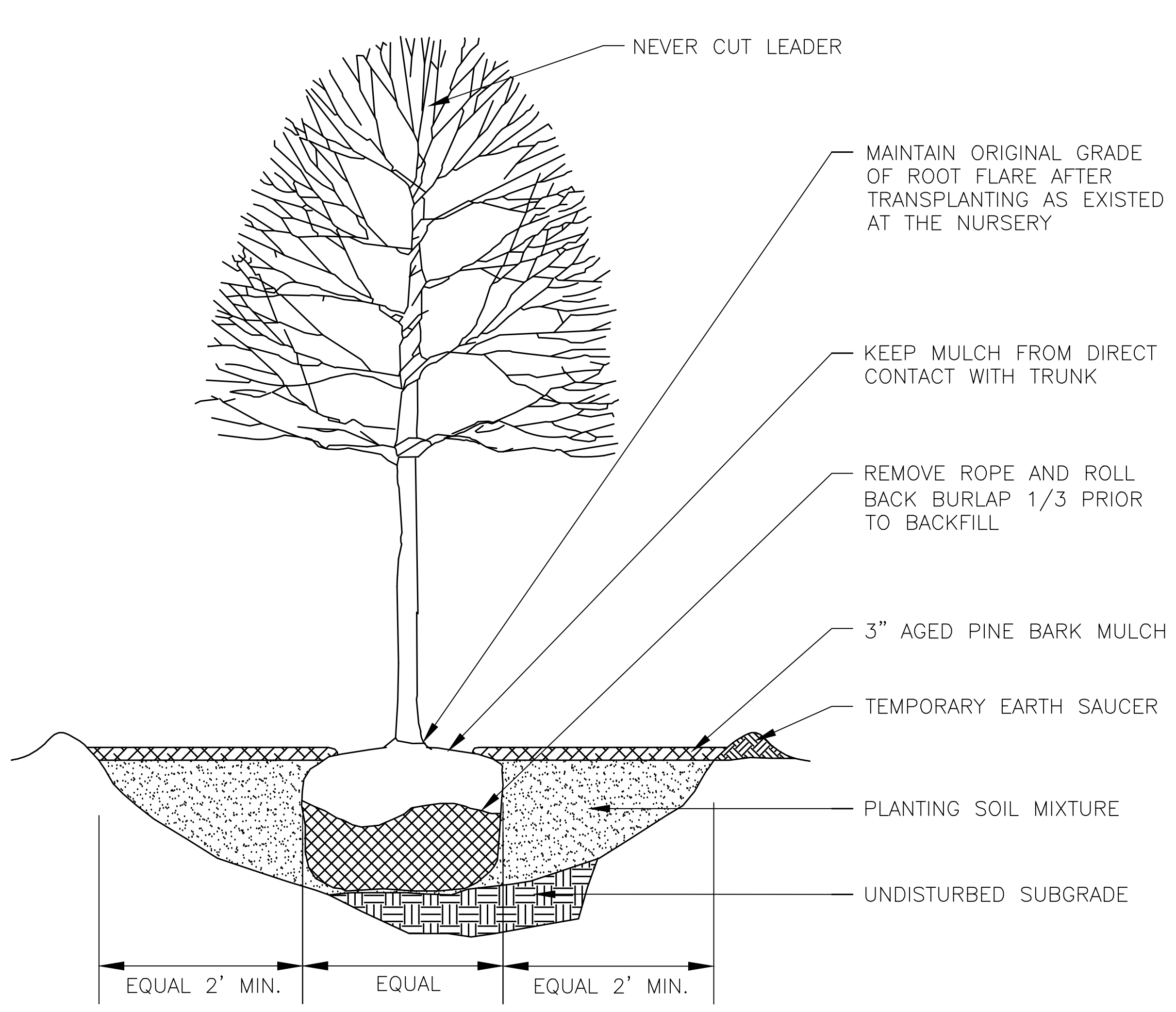
(N.T.S.)

CHAIN-LINK FENCING NOTES:
1. 2"x 9 GAUGE STEEL WIRE FABRIC (FINISHED SIZE 8 GAUGE) AND SHALL COMPLY WITH ASTM F668
2. ATTACH MESH FABRIC TO TOP RAIL AND INTERMEDIATE POST WITH GALVANIZED STEEL TIES, AS PER INDUSTRY STANDARD (4 PER 10' SECTION MIN. ON THE RAIL & 3 PER POST).
3. CONCRETE FOOTING TO BE ASTM C 94; TYPE II PORTLAND CEMENT; 2500 PSI@ 28 DAYS; 3" SLUMP, 3/4" MAX. SIZE AGGREGATE
4. BOLTS WHICH ARE INSTALLED 6' OR LESS ABOVE GRADE SHALL NOT PROTRUDE MORE THAN 1/ 4" BEYOND THE NUT AFTER TIGHTENING. ALL ROUGH EDGES SHALL BE FILED SMOOTH TO THE SATISFACTION OF THE ENGINEER.
5. FABRIC TO BE KNUCKLED AT TOP AND BOTTOM RAILS ON FENCES UP TO AND INCLUDING 6'-0" HIGH AND TWISTED AT TOP RAIL ON FENCES OVER 6'-0" HIGH.


VARIES SEE PLANT LIST
MAINTAIN ORIGINAL GRADE OF ROOT FLARE AFTER TRANSPLANTING AS EXISTED AT THE NURSERY
3" BARK MULCH
TEMPORARY EARTH SAUCER
LOAM IN PLANTING AREAS TO 6" MIN. DEPTH
ROLL BACK BURLAP 1/3 PRIOR TO BACKFILL
PLANTING SOIL MIXTURE, TAMPED TO PREVENT SETTLING
COMPACTED SUBGRADE
DEPTH OF ROOTBALL 18" MIN.
6"

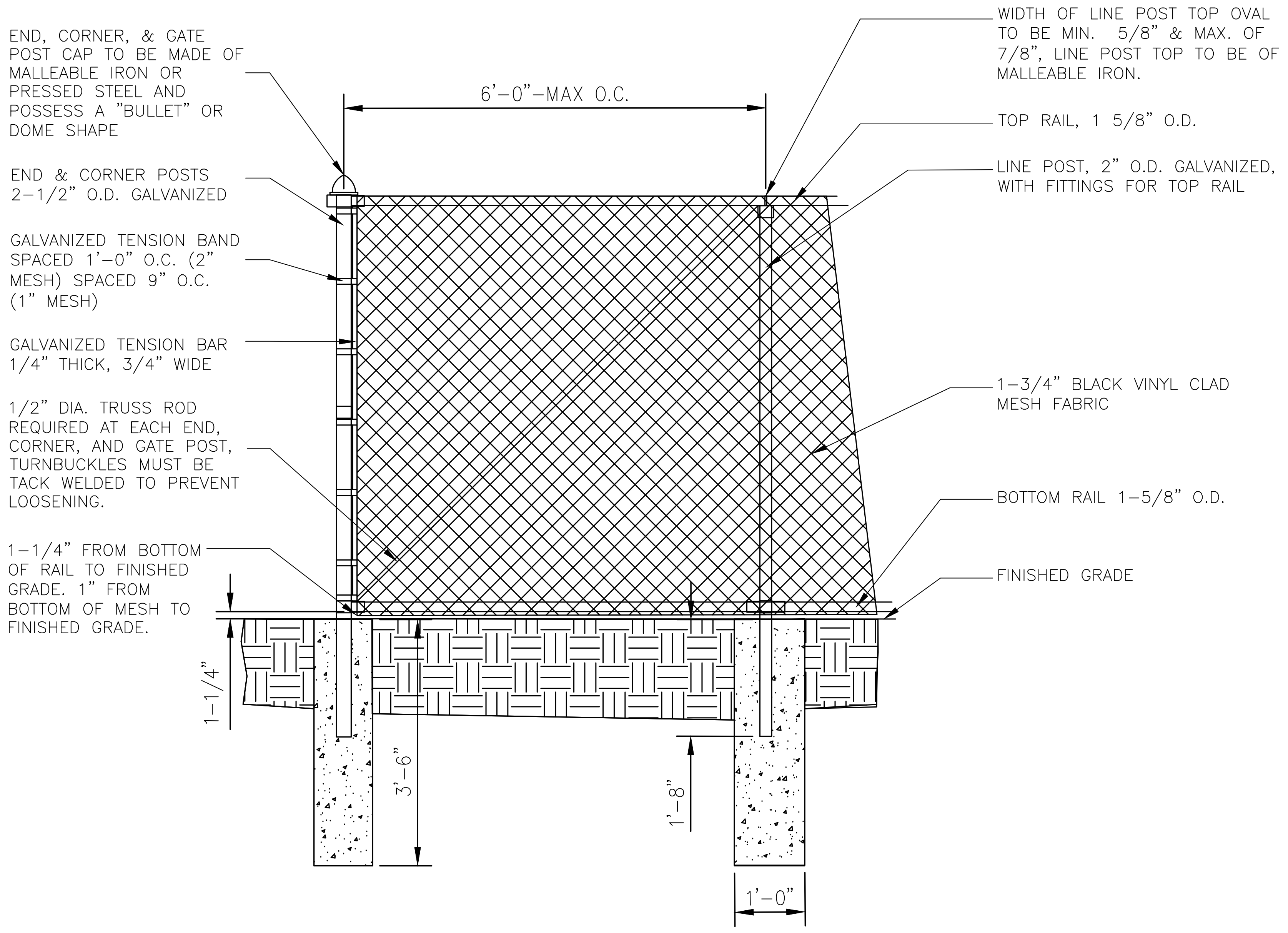
SHRUB PLANTING DETAIL

(N.T.S.)


NEVER CUT LEADER
MAINTAIN ORIGINAL GRADE OF ROOT FLARE AFTER TRANSPLANTING AS EXISTED AT THE NURSERY
KEEP MULCH FROM DIRECT CONTACT WITH TRUNK
REMOVE ROPE AND ROLL BACK BURLAP 1/3 PRIOR TO BACKFILL
3" AGED PINE BARK MULCH
TEMPORARY EARTH SAUCER
PLANTING SOIL MIXTURE
UNDISTURBED SUBGRADE
EQUAL 2' MIN.
EQUAL
EQUAL 2' MIN.

TREE PLANTING DETAIL

(N.T.S.)


END, CORNER, & GATE POST CAP TO BE MADE OF MALLEABLE IRON OR PRESSED STEEL AND POSSESS A "BULLET" OR DOME SHAPE
6'-0"-MAX O.C.
WIDTH OF LINE POST TOP OVAL TO BE MIN. 5/8" & MAX. OF 7/8", LINE POST TOP TO BE OF MALLEABLE IRON.
TOP RAIL, 1 5/8" O.D.
END & CORNER POSTS 2-1/2" O.D. GALVANIZED
LINE POST, 2" O.D. GALVANIZED, WITH FITTINGS FOR TOP RAIL
GALVANIZED TENSION BAND SPACED 1'-0" O.C. (2" MESH) SPACED 9" O.C. (1" MESH)
GALVANIZED TENSION BAR 1/4" THICK, 3/4" WIDE
1-3/4" BLACK VINYL CLAD MESH FABRIC
1/2" DIA. TRUSS ROD REQUIRED AT EACH END, CORNER, AND GATE POST, TURNBUCKLES MUST BE TACK WELDED TO PREVENT LOOSENING.
BOTTOM RAIL 1-5/8" O.D.
1-1/4" FROM BOTTOM OF RAIL TO FINISHED GRADE. 1" FROM BOTTOM OF MESH TO FINISHED GRADE.
FINISHED GRADE
1-1/4"
3'-6"
1'-8"
1'-0"

CHAIN-LINK FENCE DETAIL

(N.T.S.)

Greenman-Pedersen, Inc.
Engineering and Construction Services
In Western New York:
BUFFALO (716) 633-4844 • ROCHESTER (585) 486-4859 • JAMESTOWN (716) 488-2803

GPI

GREENMAN PEDERSEN INC.
No. 131

SCALE: AS NOTED	DRAWN BY: C.Y.	
DATE: OCTOBER 18, 2019	CHECKED BY: T.W.	
DWG NO.: SD-1	JOB NO.: BUF-2015049.041	
NO.	REVISIONS:	BY	DATE

SD-1_SITE DETAILS

LIFE STORAGE, INC.
(SITE #230 BREWSTER)
TOWN OF SOUTHEAST - PUTNAM COUNTY, NY

SHEET NO.
09

WARNING: ALTERATIONS TO THIS DOCUMENT NOT CONFORMING TO SECTION 7209, SUBDIVISION 2, STATE EDUCATION LAW, ARE PROHIBITED

STANDARD AND SPECIFICATIONS FOR PERMANENT CONSTRUCTION AREA PLANTING

Definition & Scope

Establishing **permanent** grasses with other forbs and/or shrubs to provide a minimum 80% perennial vegetative cover on areas disturbed by construction and critical areas to reduce erosion and sediment transport. Critical areas may include but are not limited to steep excavated cut or fill slopes as well as eroding or denuded natural slopes and areas subject to erosion.

Conditions Where Practice Applies

This practice applies to all disturbed areas void of, or having insufficient, cover to prevent erosion and sediment transport. See additional standards for special situations such as sand dunes and sand and gravel pits.

Criteria

All water control measures will be installed as needed prior to final grading and seedbed preparation. Any severely compacted sections will require chiseling or disking to provide an adequate rooting zone, to a minimum depth of 12". see Soil Restoration Standard. The seedbed must be prepared to allow good soil to seed contact, with the soil not too soft and not too compact. Adequate soil moisture must be present to accomplish this. If surface is powder dry or sticky wet, postpone operations until moisture changes to a favorable condition. If seeding is accomplished within 24 hours of final grading, additional scarification is generally not needed, especially on ditch or stream banks. Remove all stones and other debris from the surface that are greater than 4 inches, or that will interfere with future mowing or maintenance.

Soil amendments should be incorporated into the upper 2 inches of soil when feasible. The soil should be tested to determine **the amounts of amendments** needed. Apply ground agricultural limestone to attain a pH of 6.0 in the upper 2 inches of soil. If soil must be fertilized before results of a soil test can be obtained to determine fertilizer needs, apply commercial fertilizer at 600 lbs. per acre of 5-10-10 or equivalent. If manure is used, apply a quantity to meet the nutrients of the above fertilizer. This requires an appropriate manure analysis prior to applying to the site. Do not use manure on sites to be planted with birdsfoot trefoil or in the path of concentrated water flow.

Seed mixtures may vary depending on location within the state and time of seeding. Generally, warm season grasses should only be seeded during early spring, April to May. These grasses are primarily used for vegetating excessively drained sands and gravels. See Standard and Specification for Sand and Gravel Mine Reclamation. Other grasses may be seeded any time of the year when the soil is not frozen and is workable. When legumes such as birdsfoot trefoil are included, spring seeding is preferred. See Table 4.4, "Permanent Construction Area Planting Mixture Recommendations" for additional seed mixtures.

General Seed Mix:	Variety	lbs./acre	lbs/1000 sq. ft
Red Clover¹ OR	Acclaim, Rally, Red Head II, Renegade	8²	0.20
Common white clover¹	Common	8	0.20
PLUS			
Creeping Red Fescue	Common	20	0.45
PLUS			
Smooth Bromegrass OR	Common	2	0.05
Ryegrass (perennial)	Pennfine/Linn	5	0.10

¹ add inoculant immediately prior to seeding
² Mix 4 lbs each of Empire and Pardee OR 4 lbs of Birdsfoot and 4 lbs white clover per acre. All seeding rates are given for Pure Live Seed (PLS)

Pure Live Seed, or (PLS) refers to the amount of live seed in a lot of bulk seed. Information on the seed bag label includes the type of seed, supplier, test date, source of seed, purity, and germination. Purity is the percentage of pure seed. Germination is the percentage of pure seed that will produce normal plants when planted under favorable conditions.

Time of Seeding: The optimum timing for the general seed mixture is early spring. Permanent seedings may be made any time of year if properly mulched and adequate moisture is provided. Late June through early August is not a good time to seed, but may facilitate covering the land without additional disturbance if construction is completed. Portions of the seeding may fail due to drought and heat. These areas may need reseeding in late summer/fall or the following spring.

Method of seeding: Broadcasting, drilling, cultipack type seeding, or hydroseeding are acceptable methods. Proper soil to seed contact is key to successful seedings.

Mulching: Mulching is essential to obtain a uniform stand of seeded plants. Optimum benefits of mulching new seedings are obtained with the use of small grain straw applied at a rate of 2 tons per acre, and anchored with a netting or tackifier. See the Standard and Specifications for Mulching for choices and requirements.

Irrigation: Watering may be essential to establish a new seeding when a drought condition occurs shortly after a new seeding emerges. Irrigation is a specialized practice and care must be taken not to exceed the application rate for the soil or subsoil. When disconnecting irrigation pipe, be sure pipes are drained in a safe manner, not creating an erosion concern.

Table 4.4
Permanent Construction Area Planting Mixture Recommendations

Seed Mixture	Variety	Rate in lbs./acre (PLS)	Rate in lbs./ 1,000 ft²
Mix #1			
Creeping red fescue	Ensylva, Pennlawn, Boreal	10	.25
Perennial ryegrass	Pennfine, Linn	10	.25
*This mix is used extensively for shaded areas.			
Mix #2			
Switchgrass	Shelter, Pathfinder, Trailblazer, or Blackwell	20	.50
*This rate is in pure live seed, this would be an excellent choice along the upland edge of a wetland to filter runoff and provide wildlife benefits. In areas where erosion may be a problem, a companion seeding of sand lovegrass should be added to provide quick cover at a rate of 2 lbs. per acre (0.05 lbs. per 1000 sq. ft.).			
Mix #3			
Switchgrass	Shelter, Pathfinder, Trailblazer, or Blackwell	4	.10
Big bluestem	Niagara	4	.10
Little bluestem	Aldous or Camper	2	.05
Indiangrass	Rumsey	4	.10
Coastal panicgrass	Atlantic	2	.05
Sideoats grama	El Reno or Trailway	2	.05
Wildflower mix		.50	.01
*This mix has been successful on sand and gravel plantings. It is very difficult to seed without a warm season grass seeder such as a Truax seed drill. Broadcasting this seed is very difficult due to the fluffy nature of some of the seed, such as bluestems and indiangrass.			
Mix #4			
Switchgrass	Shelter, Pathfinder, Trailblazer, or Blackwell	10	.25
Coastal panicgrass	Atlantic	10	.25
*This mix is salt tolerant, a good choice along the upland edge of tidal areas and roadsides.			
Mix #5			
Saltmeadow cordgrass (Spartina patens)—This grass is used for tidal shoreline protection and tidal marsh restoration. It is planted by vegetative stem divisions. "Cape" American beachgrass can be planted for sand dune stabilization above the saltmeadow cordgrass zone.			
Mix #6			
Creeping red fescue	Ensylva, Pennlawn, Boreal	20	.45
Chewings Fescue	Common	20	.45
Perennial ryegrass	Pennfine, Linn	5	.10
Red Clover	Common	10	.45
*General purpose erosion control mix. Not to be used for a turf planting or play grounds.			

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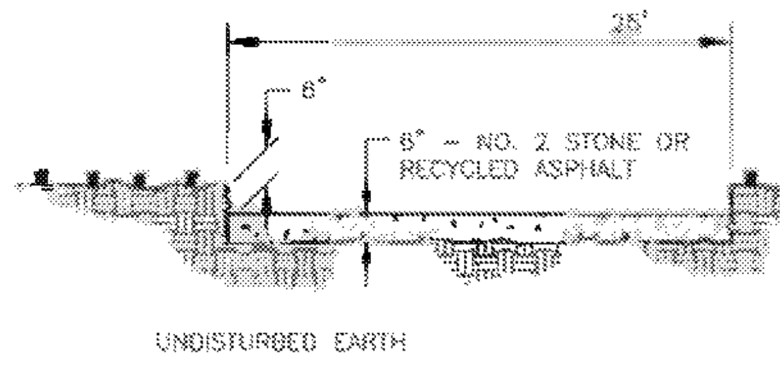
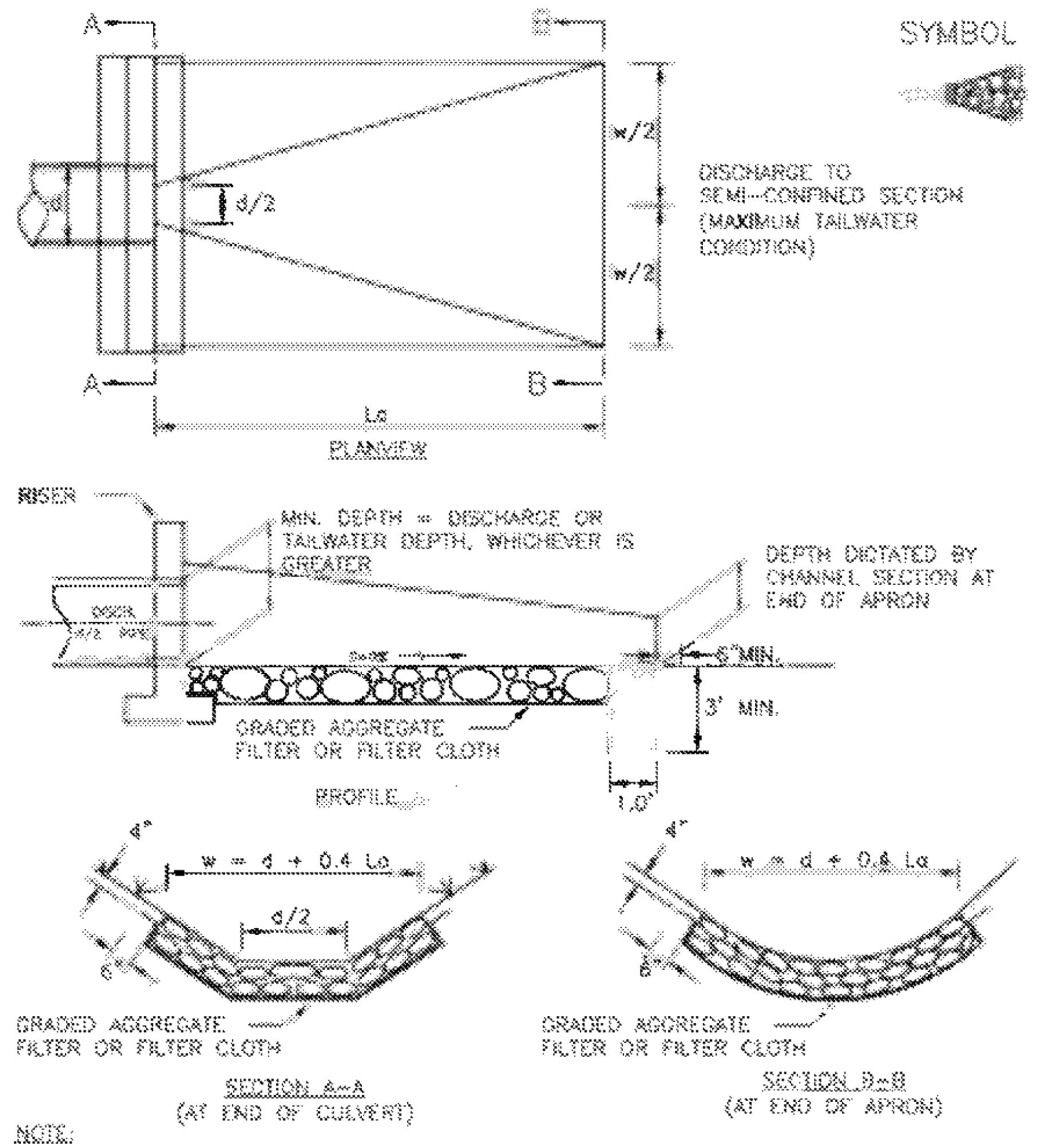


CONCRETE TRUCK WASH AREA DETAIL

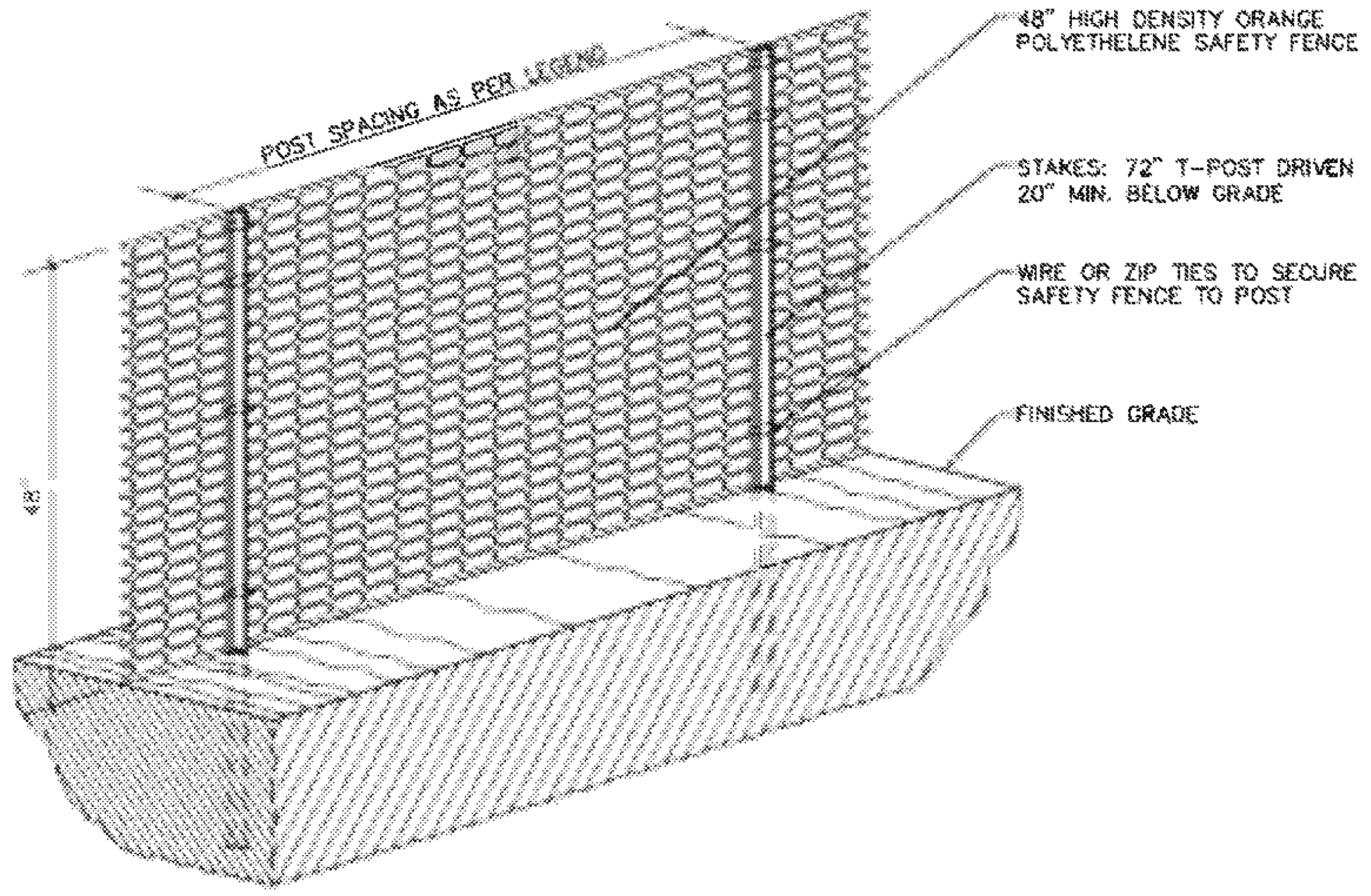
(N.T.S.)


A
B
A
B
SYMBOL
d
d/2
w/2
w/2
DISCHARGE TO SEMI-CONFINED SECTION (MAXIMUM TAILWATER CONDITION)
La
PLANVIEW
RISER
MIN. DEPTH = DISCHARGE OR TAILWATER DEPTH, WHICHEVER IS GREATER
DEPTH DICTATED BY CHANNEL SECTION AT END OF APRON
6" MIN.
3' MIN.
GRADED AGGREGATE FILTER OR FILTER CLOTH
PROFILE
1.0'
4"
w = d + 0.4 La
d/2
6"
GRADED AGGREGATE FILTER OR FILTER CLOTH
SECTION A–A (AT END OF CULVERT)
SECTION B–B (AT END OF APRON)

NOTE:
SEE RIPRAP STANDARDS AND SPECIFICATIONS MAXIMUM TAILWATER CONDITIONS

RIPRAP OUTLET PROTECTION EXAMPLE

(N.T.S.)


POST SPACING AS PER LEGEND
48" HIGH DENSITY ORANGE POLYETHELENE SAFETY FENCE
STAKES: 72" T-POST DRIVEN 20" MIN. BELOW GRADE
WIRE OR ZIP TIES TO SECURE SAFETY FENCE TO POST
FINISHED GRADE
48"

ORANGE CONSTRUCTION BARRIER FENCE DETAIL

(N.T.S.)

NOTES:
1. ALL SENSITIVE AREAS SHALL BE PROTECTED AS PER PLAN.
2. SAFETY FENCE SHOULD BE FASTENED SECURELY TO THE T-POSTS.
3. THE FENCING MUST REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION; ANY CHANGE OF THE PROTECTIVE FENCING MUST BE APPROVED.

48" Safety Fence, 72" T-Posts

LEGEND

SAF12	48" ORANGE FENCE, 12 FEET O.C.
SAF11	48" ORANGE FENCE, 11 FEET O.C.
SAF10	48" ORANGE FENCE, 10 FEET O.C.
SAF9	48" ORANGE FENCE, 9 FEET O.C.
SAF8	48" ORANGE FENCE, 8 FEET O.C.
SAF7	48" ORANGE FENCE, 7 FEET O.C.
SAF6	48" ORANGE FENCE, 6 FEET O.C.

STANDARD AND SPECIFICATIONS FOR DUST CONTROL

Definition & Scope

The control of dust resulting from land-disturbing activities, to prevent surface and air movement of dust from disturbed soil surfaces that may cause off-site damage, health hazards, and traffic safety problems.

Conditions Where Practice Applies

On construction roads, access points, and other disturbed areas subject to surface dust movement and dust blowing where off-site damage may occur if dust is not controlled.

Design Criteria

Construction operations should be scheduled to minimize the amount of area disturbed at one time. Buffer areas of vegetation should be left where practical. Temporary or permanent stabilization measures shall be installed. No specific design criteria is given; see construction specifications below for common methods of dust control.

Water quality must be considered when materials are selected for dust control. Where there is a potential for the material to wash off to a stream, ingredient information must be provided to the NYSDEC.

No polymer application shall take place without written approval from the NYSDEC.

Construction Specifications

A. **Non-driving Areas** – These areas use products and materials applied or placed on soil surfaces to prevent airborne migration of soil particles.

Vegetative Cover – For disturbed areas not subject to traffic, vegetation provides the most practical method of dust control (see Section 3).

Mulch (including gravel mulch) – Mulch offers a fast effective means of controlling dust. This can also include rolled erosion control blankets.

Spray adhesives – These are products generally composed of polymers in a liquid or solid form that are mixed with water to form an emulsion that is sprayed on the soil surface with typical hydroseeding equipment. The mixing ratios and application rates will be in accordance with the manufacturer's recommendations for the specific soils on the site. In no case should the application of these adhesives be made on wet soils or if there is a probability of precipitation within 48 hours of its proposed use. Material Safety Data Sheets will be provided to all applicators and others working with the material.

B. **Driving Areas** – These areas utilize water, polymer emulsions, and barriers to prevent dust movement from the traffic surface into the air.

Sprinkling - The site may be sprayed with water until the surface is wet. This is especially effective on haul roads and access routes to provide short term limited dust control.

Polymer Additives - These polymers are mixed with water and applied to the driving surface by a water truck with a gravity feed drip bar, spray bar or automated distributor truck. The mixing ratios and application rates will be in accordance with the manufacturer's recommendations. Incorporation of the emulsion into the soil will be done to the appropriate depth based on expected traffic. Compaction after incorporation will be by vibratory roller to a minimum of 95%. The prepared surface shall be moist and no application of the polymer will be made if there is a probability of precipitation within 48 hours of its proposed use. Material Safety Data Sheets will be provided to all applicators working with the material.

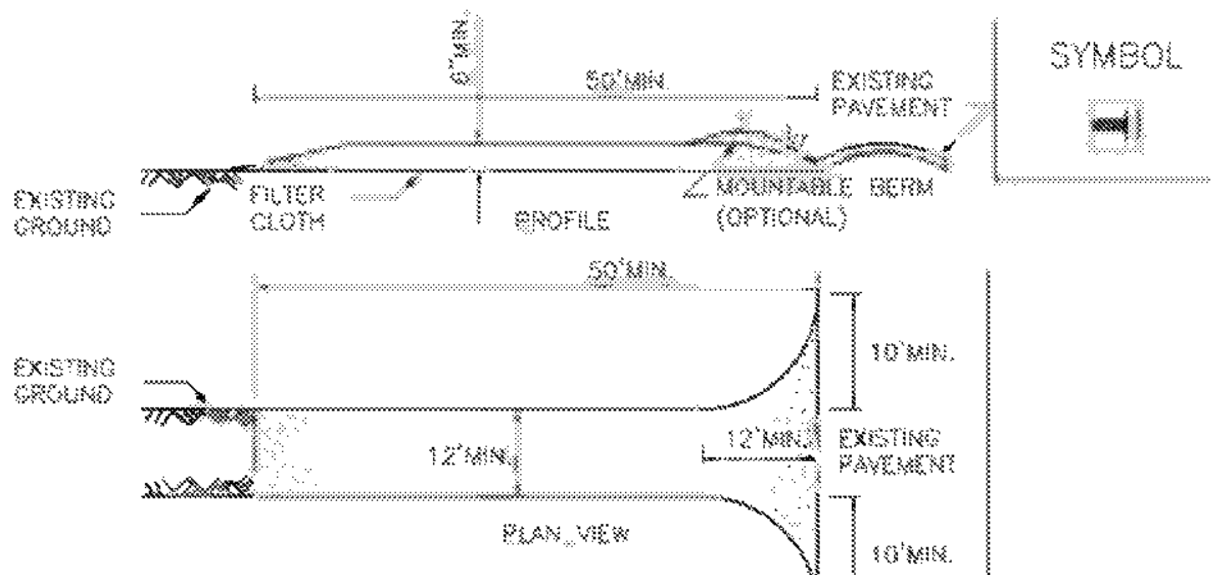
Barriers - Woven geo-textiles can be placed on the driving surface to effectively reduce dust throw and particle migration on haul roads. Stone can also be used for construction roads for effective dust control.

Windbreak - A silt fence or similar barrier can control air currents at intervals equal to ten times the barrier height. Preserve existing wind barrier vegetation as much as practical.

Maintenance

Maintain dust control measures through dry weather periods until all disturbed areas are stabilized.

New York State Standards and Specifications For Erosion and Sediment Control Page 2.25 November 2016

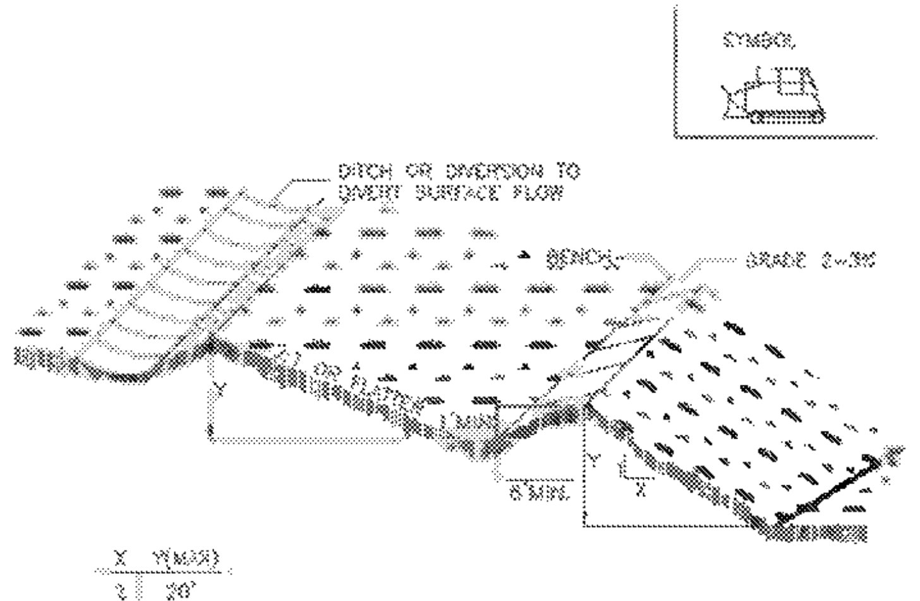


CONSTRUCTION SPECIFICATIONS

1. STONE SIZE – USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CON-STRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

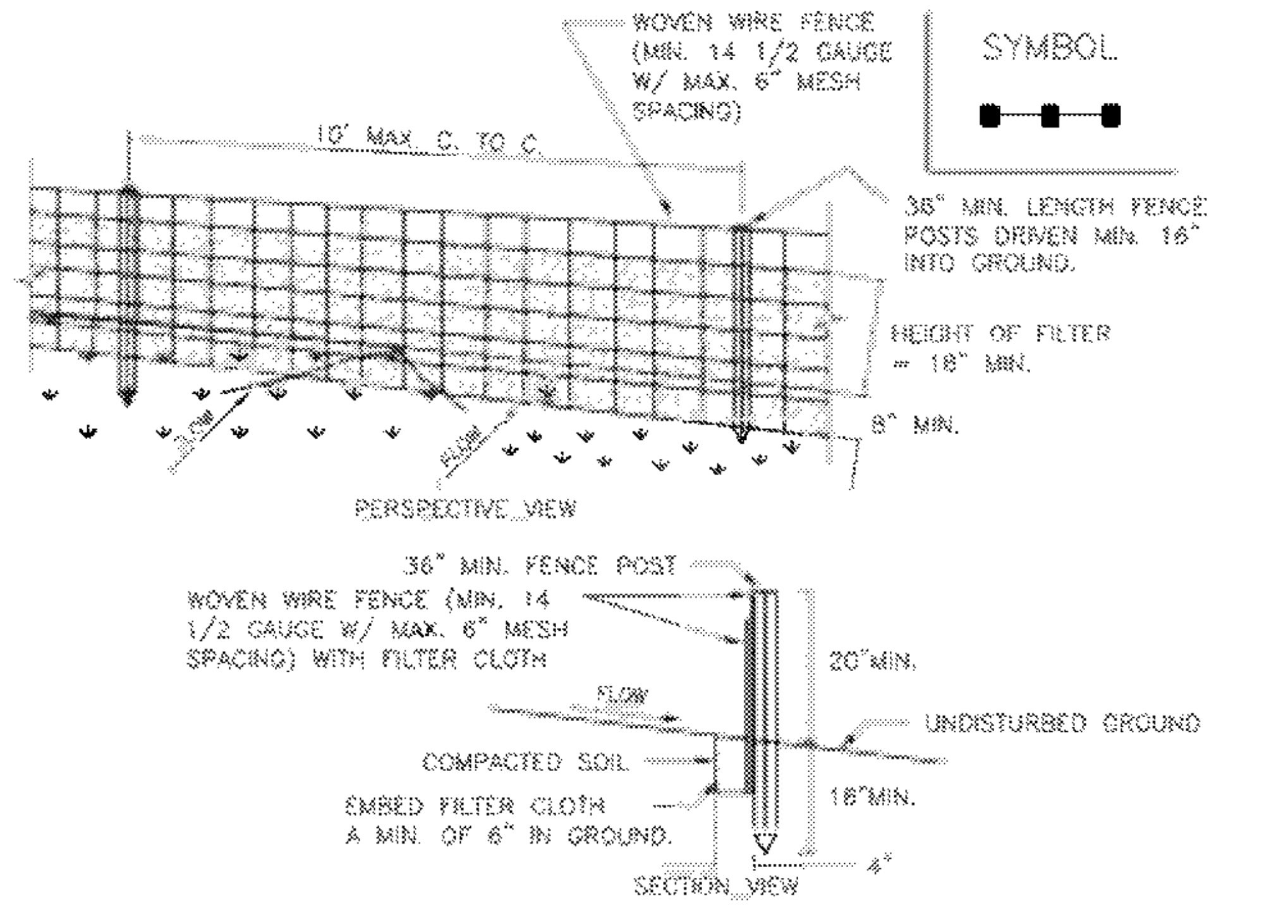
STABILIZED CONSTRUCTION ENTRANCE

(N.T.S.)



LANDGRADING

(N.T.S.)

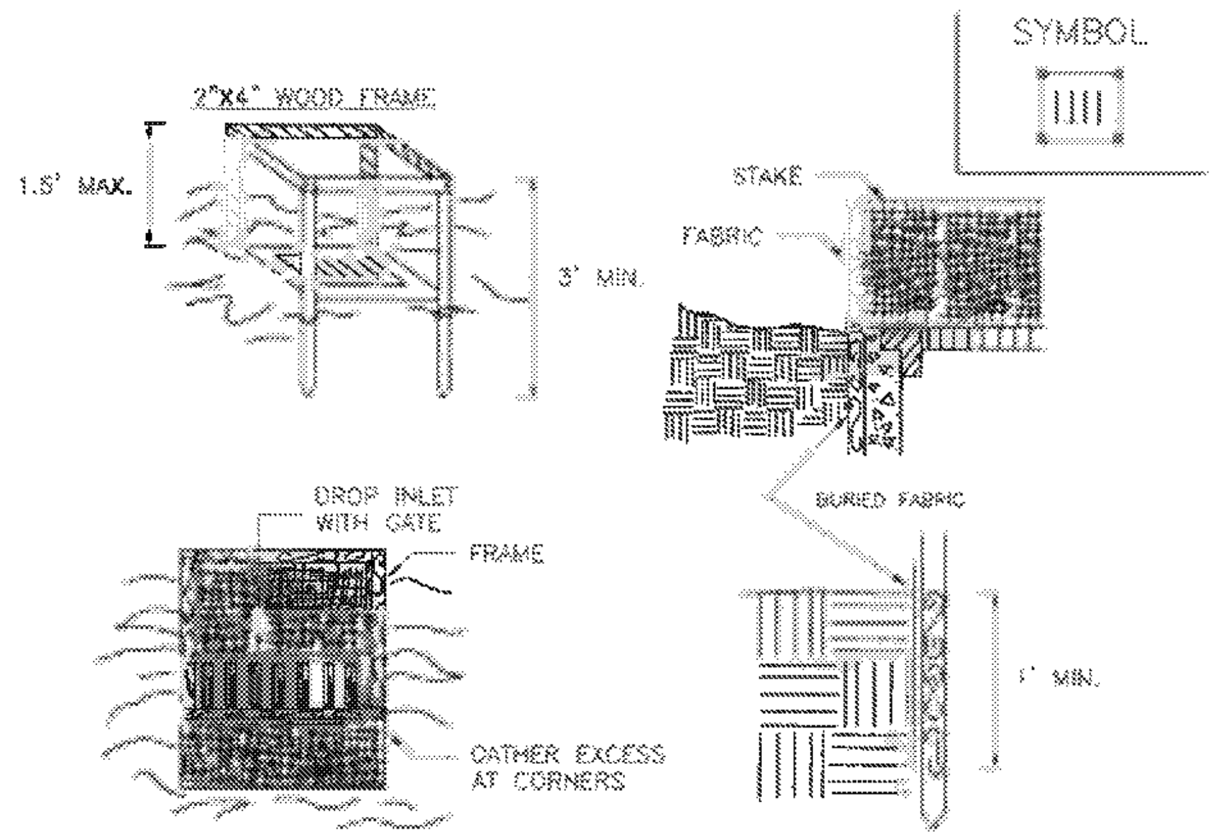

WOVEN WIRE FENCE (MIN. 14 1/2 GAUGE W/ MAX. 6" MESH SPACING)
SYMBOL
10' MAX. C. TO C.
36" MIN. LENGTH FENCE POSTS DRIVEN MIN. 16" INTO GROUND.
HEIGHT OF FILTER = 16" MIN.
FLOW
8" MIN.
PERSPECTIVE VIEW
36" MIN. FENCE POST
WOVEN WIRE FENCE (MIN. 14 1/2 GAUGE W/ MAX. 6" MESH SPACING) WITH FILTER CLOTH
20" MIN.
FLOW
UNDISTURBED GROUND
COMPACTED SOIL
EMBED FILTER CLOTH A MIN. OF 6" IN GROUND.
16" MIN.
4"
SECTION VIEW

CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE

(N.T.S.)



CONSTRUCTION SPECIFICATIONS

1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.
4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY. MAXIMUM DRAINAGE AREA 1 ACRE.
7. INSPECT THE FABRIC BARRIER AFTER EACH RAIN EVENT AND MAKE REPAIRS AS NEEDED. REMOVE SEDIMENT FROM THE POOL AREA AS NECESSARY WITH CARE NOT TO UNDERCUT OR DAMAGE THE FILTER FABRIC.

FILTER FABRIC DROP INLET PROTECTION

(N.T.S.)

LANDGRADING SPECIFICATIONS

1. ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN UNTIL THEY ARE PERMANENTLY STABILIZED.
2. ALL SEDIMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN AND THE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS".
3. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNT NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS.
4. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL.
5. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF FOUR INCHES PRIOR TO PLACEMENT OF TOPSOIL.
6. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
7. ALL FILL TO BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
8. EXCEPT FOR APPROVED LANDFILLS, FILL MATERIAL SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
9. FROZEN MATERIALS OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED IN FILLS.
10. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
11. ALL BENCHES SHALL BE KEPT FREE OF SEDIMENT DURING ALL PHASES OF DEVELOPMENT.
12. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
13. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.
14. STOCKPILES, BORROW AREAS AND SPOIL AREAS SHALL BE SHOWN ON THE PLANS AND SHALL BE SUBJECT TO THE PROVISIONS OF THIS STANDARD AND SPECIFICATION.

Greenman-Pedersen, Inc.
Engineering and Construction Services
in Western New York:
BUFFALO (716) 633-4844 • ROCHESTER (585) 486-4859 • JAMESTOWN (716) 488-2603

GPI

SCALE: AS NOTED		DRAWN BY:	C.Y.
DATE: SEPTEMBER 16, 2019		CHECKED BY:	T.W.
DWG NO.: ECD-1		JOB NO.:	BUF-2015049.041
NO.	REVISIONS	BY	DATE

ECD-1_EROSION & SEDIMENT CONTROL DETAILS

LIFE STORAGE, INC.
(SITE #230 BREWSTER)
TOWN OF SOUTHEAST - PUTNAM COUNTY, NY

SHEET NO.
10

WARNING: ALTERATION TO THIS DOCUMENT NOT CONFORMING TO SECTION 7209, SUBDIVISION 2 STATE EDUCATION LAW ARE PROHIBITED

PHILIPS
Stonco

Wall mount

LytePro LED Sconce

LPW16

Project:	
Location:	
Cat.No:	
Type:	
Quantity:	
Notes:	

The Philips Stonco LytePro LED Small Wall Sconce LPW16 features outstanding value in a compact, architectural design. This wall sconce features state-of-the-art, long-life and maintenance savings, in a combined discreet LED package with high precision over-optic design. This powerful and precise combination offers outstanding energy savings with excellent photometric performance. LPW16 is ideal for entryways and corridors in addition to wall lighting applications requiring strong lateral spacing and forward pattern projection.

Stocked luminaires – Ordering guide[1]

Catalog Number	Description	Master Pack, Qty	UPC Code
LPW16-58BZ	LPW16, 30W, 530mA, 4000K, 120-277V, Bronze textured paint	6	786034960540
LPW16-51BZPCB	LPW16, 30W, 530mA, 4000K, 120V, Bronze textured paint, w/button photocell	6	786034960557
LPW16-78BZ	LPW16, 40W, 700mA, 4000K, 120-277V, Bronze textured paint	6	786034960502
LPW16-78DGY	LPW16, 40W, 700mA, 4000K, 120-277V, Dark gray textured paint	6	786034960489
LPW16-71BZPCB	LPW16, 40W, 700mA, 4000K, 120V, Bronze textured paint, w/button photocell	6	786034960519

Stocked accessories - Ordering guide (Must be ordered separately)

Catalog Number	Description	Master Pack, Qty	UPC Code
LPWCVRPLT-BZ	LPW Universal wall cover mounting plate, Bronze textured paint	(none)	786034960618

Description of catalog codes

Family	Drive current	Voltage	Finish	Options
LPW16 = LytePro 16 LED Small Wall Sconce	5 = 530mA drive current 7 = 700mA drive current	8 = 120-277V 1 = 120V	BZ = Bronze textured paint DGY = Dark gray textured paint	PCB = Button photocontrol

1. Color availability and options vary by model; consult stock luminaires ordering guide above.

LPW16 LytePro LED Small Wall Sconce

Features

LPW16 wall sconce delivers 3,374 lumens at 36W, with an efficacy of 93 lumens per watt. Other wattages available per charts noted below--.

- LP16W-5, 30W LED may effectively replace 70-100W HID luminaires[2]
- LP16W-7, 40W LED may effectively replace 100-150W HID luminaires[1]
- 4000K neutral white at 70 CRI (minimum) is standard
- LPW16 offers two in-stock colors on standard units
- Button photocell available in 120V, bronze luminaires only
- 5-year limited warranty, see philips.com/warranties for specific details

Performance/Specifications (LP16W-7)

Distribution	Type 3
Initial Lumens	3,374
Average Wattage	36
Lumens/Watt	93
BUG Rating*	B1/U0/G1
Luminaire Weight	~6lbs (2.7Kg)

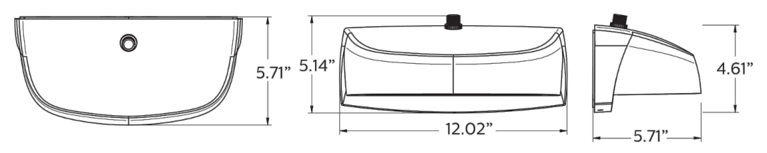
Performance/Specifications (LP16W-5)

Distribution	Type 3
Initial Lumens	2,698
Average Wattage	28
Lumens/Watt	96
BUG Rating	B1/U0/G1
Luminaire Weight	~6lbs (2.7Kg)

Ratings/Approbations/Certifications

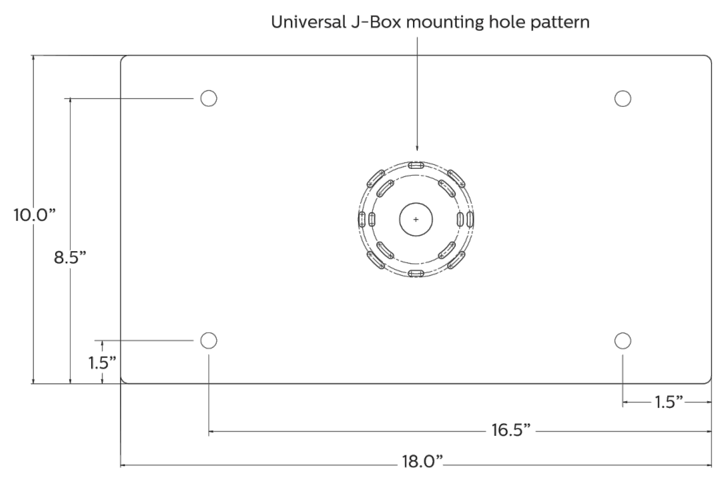
Ingress Protection	IP65 Optical
DLC Listed	DLC QPL
cETLus	Certified for use in wet locations
Rated Ambient Temperature	-40°C (-40°F) to 40°C (104°F)

Fixture Dimensions[3]



Accessory Dimensions (ordered separately)

LPWCVRPLT-BZ LPW Universal wall cover mounting plate, 0.08" aluminum, bronze textured paint (used to cover larger pre-existing opening or surfaces, field installed). Offers same J-Box pattern as luminaire or may lagged to wall using (4) knockouts.

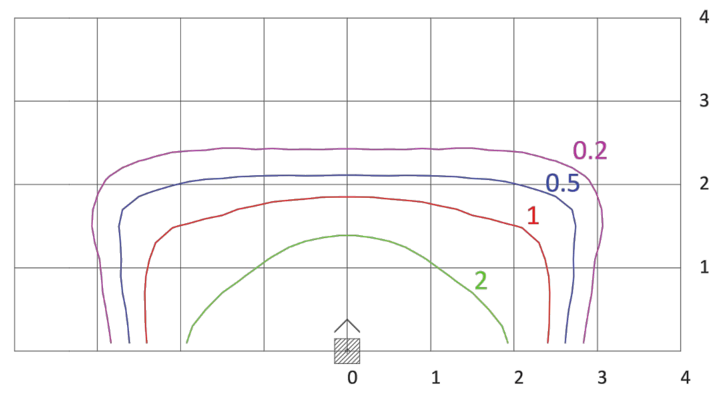


2. Comparable equivalency to HID and other lamp sources depends on multiple criteria including mounting height, fixture spacing, efficiency, performance and classification of the luminaire being replaced and application lighting criteria required for the given project.
3. PCB shown for placement only, available on specific models only (see ordering guide).

Distribution Pattern

LPW16-7 10' MOUNTING HEIGHT			
MOUNTING HEIGHT	8'	10'	12'
MULTIPLIER	1.60	1.0	0.70

- Isolines shown at 2.0, 1.0, 0.5, & 0.2 FC.
- Choose mounting height. Use MULTIPLIER (X) EXISTING FC VALUE = NEW FC VALUE.
- FC values are based on initial lumen output.
- Gridline spacing is in units of chosen mounting height
- For LPW16-5 configuration, scale down by 29%.



LPW16 LytePro LED Small Wall Sconce

General Description

The Philips Stonco LytePro LED Small Wall Sconce LPW16 combines excellent performance, design and value to meet the needs of the energy and budget conscious. The LPW16 is available for use in downward facing, surface wall mount applications, over recessed j-boxes or where power can be directly fed through back surface, whereby connections splices can be made inside the luminaire housing. Five SKU's are available as in-stock configurations (2-day quick ship).

40W Model: Two standard units are available in two different finishes. 120V button photocell is available in bronze only. 30W Model: Standard units available in bronze only, with and without photocell. 30W model is California Title 24 compliant.

Housing

Die-cast housing houses both the LED and driver assemblies. Design incorporates an integrated heat sink to maximize thermal performance and reliability. Backplate is corrosion free, composite polycarbonate, with built-in level bubble, offers integral interlocking hook and mount design for easy installation.

Mounting

Easy interlocking hook and mount housing/backplate design for easy installation. Mounts over 3.5", 4" octagonal j-boxes and single gang switch boxes or can be directly lagged to surface. Ensure proper steps for gasket/sealing luminaire to surface.

IP Rating

Optical compartment is IP65 rated.

LED Board and Array

Provides up to 93 lm/W in LPW16-7 and 96 lm/W in LPW16-5 at the system level. Standard color temp is 4000K +/- 250K, minimum 70 CRI.

Electrical

Driver efficiency (>90% standard). 120-277V. Temp range: -40°C (-40°F) to 40°C (104°F). Open/short circuit protection. Inherent surge protection up to (4KVA). RoHS compliant.

Listings

Product is cETLus listed suitable for Wet Locations. Suitable for use in ambients from -40°C to 40°C (-40°F to 104°F). DesignLights Consortium® qualified. Stocked SKUs of the LPW family are made in China.

Finish

Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Two standard colors are available: Dark Grey, and Bronze. Specific options are only available in bronze.

Warranty

LPW16 luminaires, the LED arrays, and the drivers are all covered by a 5-year limited warranty. See philips.com/warranties for details.

LED Performance:

PREDICTED LUMEN DEPRECIATION DATA[4,6]

Ambient Temp. °C	Calculated L70 hrs[5]	Reported L70 Per TM-21[5,6]	Calculated Lumen Maint. % @60,000 hrs
up to 40°C	>200,000 hrs	>60,000 hrs	94.0%

4. Calculated performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.
5. L70 is the predicted time when LED performance depreciates to 70% of initial lumen output.
6. Reported per IESNA TM21-11. Published L70 hours limited to 6 times actual LED test hours.

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philips.com/luminaires

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200 Franklin Square Drive, Somerset, NJ 08873
Tel. 855-486-2216

Imported by: Philips Lighting,
A division of Philips Electronics Ltd.
281 Hillmount Rd, Markham, ON, Canada L6C 2S3
Tel. 800-668-9008

Greenman-Pedersen, Inc.
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STATE OF NEW YORK LICENSED PROFESSIONAL ENGINEER
No. 131

SCALE: AS NOTED		DRAWN BY:	C.Y.
DATE: SEPTEMBER 16, 2019		CHECKED BY:	T.W.
DWG NO.: LD-1		JOB NO.:	BUF-2015049.041

NO.	REVISIONS:	BY	DATE

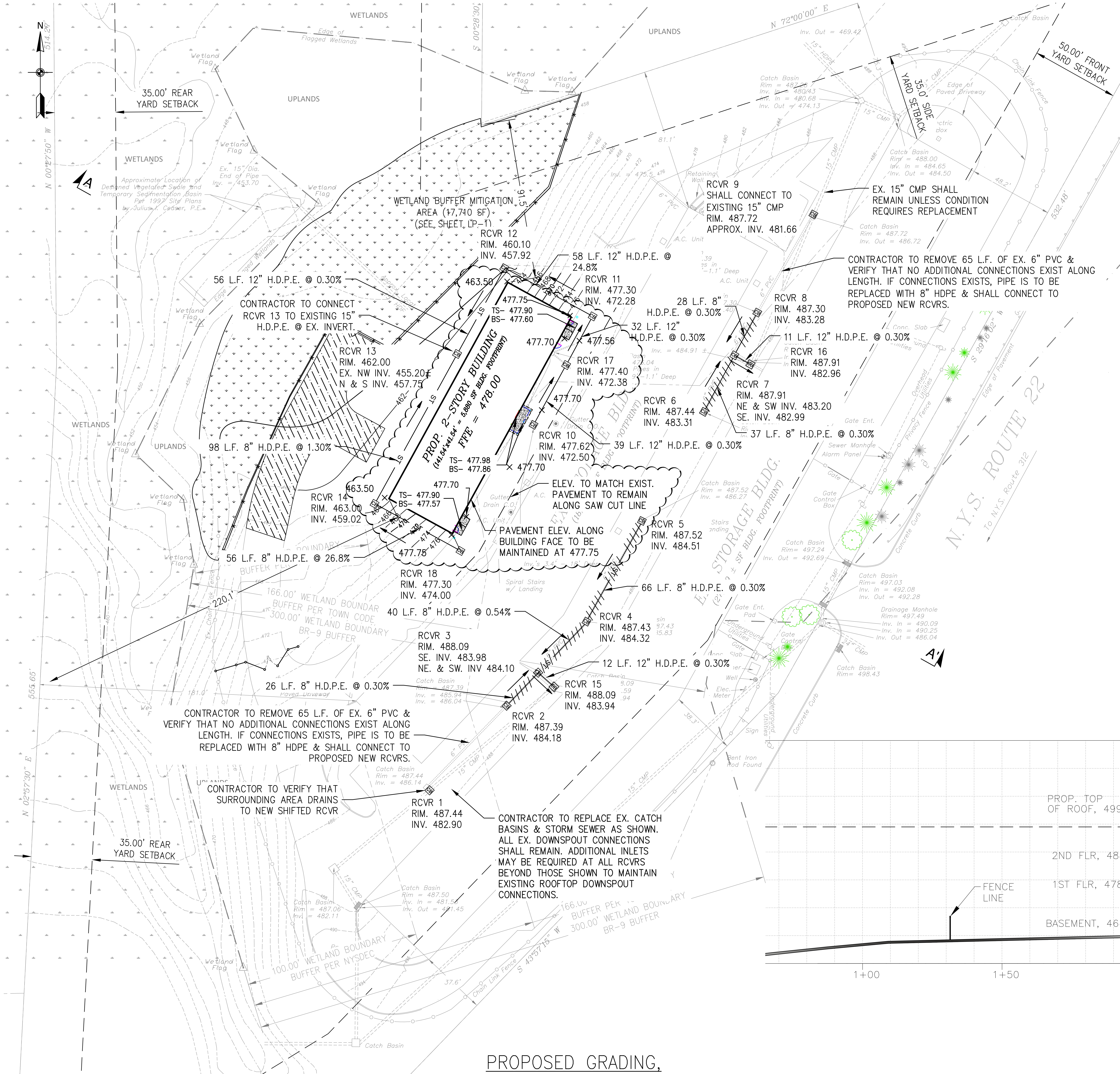
LD-1_LIGHTING DETAILS 1 1

LIFE STORAGE, INC.
(SITE #230 BREWSTER)
TOWN OF SOUTHEAST - PUTNAM COUNTY, NY

SHEET NO.
11

WARNING: ALTERATIONS TO THIS DOCUMENT NOT CONFORMING TO SECTION 7209, SUBDIVISION 2, STATE EDUCATION LAW, ARE PROHIBITED

N:\2015\buf-2015049.041 life storage brewster- ii\CADD\Design Plans\LD-X LIGHTING DETAILS.dwg Wednesday, 16 October 2019 2:31PM


N
WETLANDS
UPLANDS
35.00' REAR YARD SETBACK
WETLANDS
Approximate Location of Defined Vegetated Swale and Temporary Sedimentation Basin Per 1997 Site Plans by Julius I. Ceaser, P.E.
Ex. 15" Dia. End of Pipe Inv. = 453.70
Wetland Flag
WETLAND BUFFER MITIGATION AREA (17,710 SF) (SEE SHEET LP-1)
91.5'
N 72°00'00" E
RCVR 12 RIM. 460.10 INV. 457.92
56 L.F. 12" H.D.P.E. @ 0.30%
58 L.F. 12" H.D.P.E. @ 24.8%
RCVR 11 RIM. 477.30 INV. 472.28
CONTRACTOR TO CONNECT RCVR 13 TO EXISTING 15" H.D.P.E. @ EX. INVERT.
RCVR 13 RIM. 462.00 EX. NW INV. 455.20± N & S INV. 457.75
PROP. 2-STORY BUILDING (141.54'x41.54' = 5,880 SF BLDG. FOOTPRINT) FFE = 478.00
TS- 477.90 BS- 477.60
TS- 477.98 BS- 477.86
TS- 477.90 BS- 477.57
477.75
477.70
477.56
463.50
98 L.F. 8" H.D.P.E. @ 1.30%
RCVR 14 RIM. 463.00 INV. 459.02
56 L.F. 8" H.D.P.E. @ 26.8%
RCVR 17 RIM. 477.40 INV. 472.38
RCVR 10 RIM. 477.62 INV. 472.50
39 L.F. 12" H.D.P.E. @ 0.30%
ELEV. TO MATCH EXIST. PAVEMENT TO REMAIN ALONG SAW CUT LINE
PAVEMENT ELEV. ALONG BUILDING FACE TO BE MAINTAINED AT 477.75
RCVR 18 RIM. 477.30 INV. 474.00
RCVR 9 SHALL CONNECT TO EXISTING 15" CMP RIM. 487.72 APPROX. INV. 481.66
EX. 15" CMP SHALL REMAIN UNLESS CONDITION REQUIRES REPLACEMENT
CONTRACTOR TO REMOVE 65 L.F. OF EX. 6" PVC & VERIFY THAT NO ADDITIONAL CONNECTIONS EXIST ALONG LENGTH. IF CONNECTIONS EXISTS, PIPE IS TO BE REPLACED WITH 8" HDPE & SHALL CONNECT TO PROPOSED NEW RCVRS.
28 L.F. 8" H.D.P.E. @ 0.30%
32 L.F. 12" H.D.P.E. @ 0.30%
RCVR 8 RIM. 487.30 INV. 483.28
11 L.F. 12" H.D.P.E. @ 0.30%
RCVR 16 RIM. 487.91 INV. 482.96
RCVR 7 RIM. 487.91 NE & SW INV. 483.20 SE. INV. 482.99
37 L.F. 8" H.D.P.E. @ 0.30%
RCVR 6 RIM. 487.44 INV. 483.31
RCVR 5 RIM. 487.52 INV. 484.51
66 L.F. 8" H.D.P.E. @ 0.30%
RCVR 4 RIM. 487.43 INV. 484.32
40 L.F. 8" H.D.P.E. @ 0.54%
RCVR 3 RIM. 488.09 SE. INV. 483.98 NE. & SW. INV 484.10
12 L.F. 12" H.D.P.E. @ 0.30%
RCVR 15 RIM. 488.09 INV. 483.94
26 L.F. 8" H.D.P.E. @ 0.30%
RCVR 2 RIM. 487.39 INV. 484.18
CONTRACTOR TO REMOVE 65 L.F. OF EX. 6" PVC & VERIFY THAT NO ADDITIONAL CONNECTIONS EXIST ALONG LENGTH. IF CONNECTIONS EXISTS, PIPE IS TO BE REPLACED WITH 8" HDPE & SHALL CONNECT TO PROPOSED NEW RCVRS.
CONTRACTOR TO VERIFY THAT SURROUNDING AREA DRAINS TO NEW SHIFTED RCVR
RCVR 1 RIM. 487.44 INV. 482.90
CONTRACTOR TO REPLACE EX. CATCH BASINS & STORM SEWER AS SHOWN. ALL EX. DOWNSPOUT CONNECTIONS SHALL REMAIN. ADDITIONAL INLETS MAY BE REQUIRED AT ALL RCVRS BEYOND THOSE SHOWN TO MAINTAIN EXISTING ROOFTOP DOWNSPOUT CONNECTIONS.
35.00' REAR YARD SETBACK
50.00' FRONT YARD SETBACK
35.0' SIDE YARD SETBACK
N.Y.S. ROUTE 22
EX. STORAGE BLDG.
166.00' WETLAND BOUNDARY BUFFER PER TOWN CODE
300.00' WETLAND BOUNDARY BR-9 BUFFER
100.00' WETLAND BOUNDARY BUFFER PER NYSDEC
220.1'
555.65'
N 00°27'50" W
N 02°57'30" E
S 43°57'18" W
A
A'

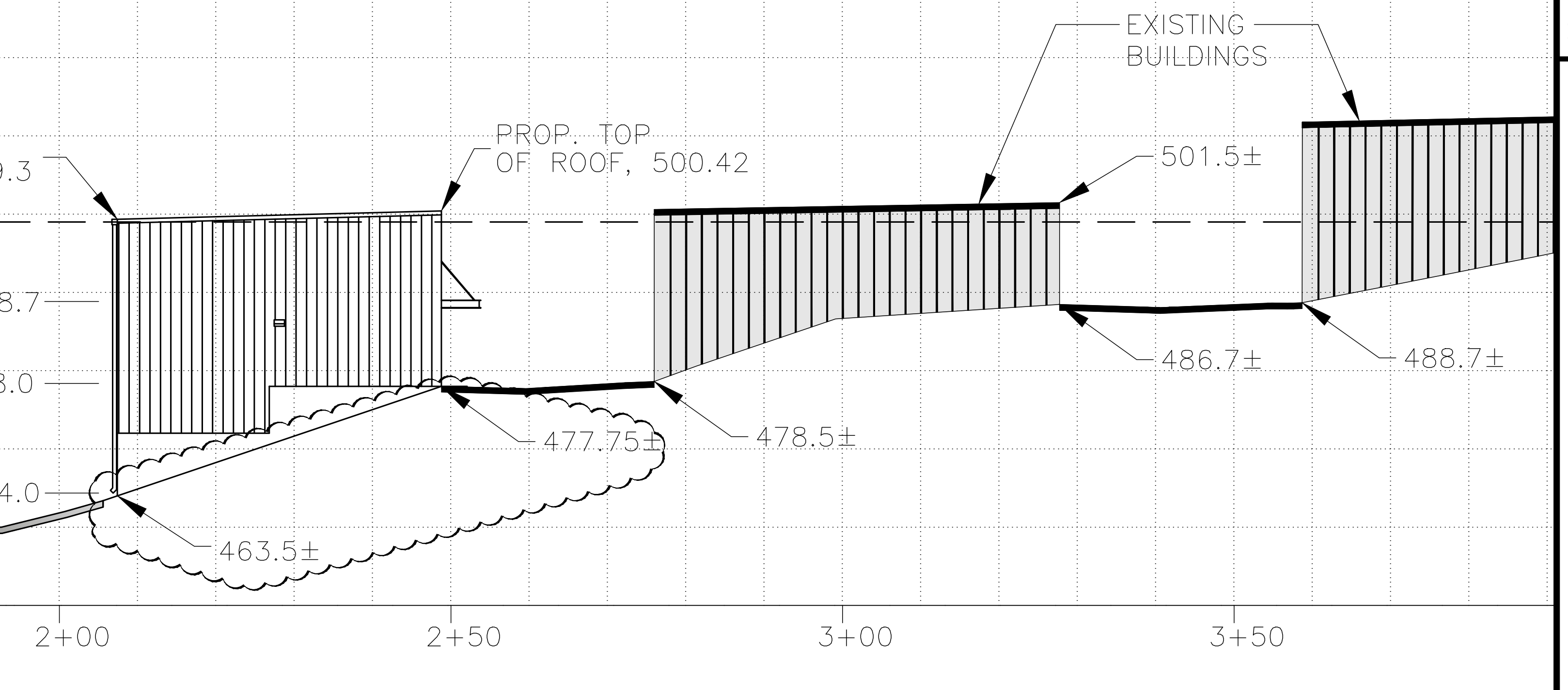
PROPOSED GRADING, DRAINAGE, & UTILITY PLAN

SCALE: 1" = 30'

0 30' 60'
SCALE IN FEET

NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO THE TOWN OF SOUTHEAST CONSTRUCTION SPECIFICATIONS AND DETAILS.
2. ///// BACKFILL WITH MECHANICALLY TAMPED SELECT MATERIAL IN MAXIMUM SIX INCH LIFTS.
3. HIGH DENSITY POLYETHYLENE PIPE (HDPE) SHALL MEET AASHTO M294 SPECIFICATIONS OR APPROVED EQUAL.
4. THE CONTRACTOR IS TO VERIFY EXACT DEPTHS AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
5. CONTRACTOR TO AVOID DISRUPTION TO EXISTING DRIVEWAYS AND AISLES AS MUCH AS POSSIBLE. ADDITIONAL PAVEMENT BLENDING MAY BE REQUIRED BEYOND PROPOSED LIMITS BASED ON EXISTING AND PROPOSED GRADES. CONTRACTOR TO COORDINATE WITH OWNER REGARDING CONSTRUCTION SCHEDULE.
6. CONTRACTOR SHALL REPLACE ANY EXISTING PAVEMENT DAMAGED DURING CONSTRUCION.
7. REPLACE ALL DEMOLISHED/REMOVED PAVEMENT WITH NEW PAVEMENT PER DETAIL ON SHEET NO. SD-1.
8. NO WORK IS TO BE PERFORMED OUTSIDE OF EX. CHAIN-LINK FENCE UNLESS NOTED.
9. CONTRACTOR SHALL MAINTAIN ALL EXISTING DOWNSPOUT DRAINAGE CONNECTIONS WITHIN THE PROPOSED STORM SYSTEM. ADDITIONAL CONNECTIONS MAY EXIST BEYOND WHAT IS SHOWN.
10. CONTRACTOR TO SECURE & PROTECT THE PROJECT/CONSTRUCTION SITE.
11. CONTRACTOR TO INVESTIGATE CONDITION OF THE EXISTING RCVR LOCATED AT PROPOSED RCVR 10 LOCATION AND IF POSSIBLE MAY FILL WITH LIGHTWEIGHT CONCRETE INSTEAD OF REPLACING WITH NEW RCVR. CONTRACTOR TO PLUG NW INVERT AND FILL WITH LIGHTWEIGHT CONCRETE AS NEEDED TO PROVIDE 1 FOOT MINIMUM SUMP PRIOR TO THE DISCHARGE INLET ELEVATION.
12. CONTRACTOR TO COMPLETE SMOKE TEST ON THE LOWEST INCOMING PIPE ENTERING RCVR 10 FROM THE NORTH, WHICH IS AT AN INVERT ELEVATION OF APPROXIMATELY 460.1. ASSUMING THIS IS A ROOF DRAIN CONNECTION, THIS DRAIN SHALL BE REROUTED VERTICALLY TO OUTFALL INTO RCVR 10, 17 OR 11. IN THE EVENT THE SOURCE OF THE LINE CANNOT BE TRACED THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR DIRECTION.



SECTION A-A'

NOTE:
CONTRACTOR SHALL MAINTAIN ACCESS FOR PATRONS, EMPLOYEES AND EMERGENCY SERVICE VEHICLES TO THE EXISTING STORAGE BUILDINGS. PROVIDE TEMPORARY FENCING AS NEEDED DURING CONSTRUCTION TO MAINTAIN A SECURED SITE.

Dig Safely. New York Call811 before you dig

Greenman-Pedersen, Inc.
Engineering and Construction Services
In Western New York:
BUFFALO (716) 633-4844 • ROCHESTER (585) 486-4859 • JAMESTOWN (716) 488-2803

GPI

STATE OF NEW YORK
GREENMAN PEDERSEN, INC.
No. 131
LICENSED PROFESSIONAL ENGINEER

SCALE: AS NOTED		DRAWN BY: C.Y.	
DATE: OCTOBER 18, 2019		CHECKED BY: T.W.	
DWG NO.: GD-1		JOB NO.: BUF-2015049.041	
NO.	REVISIONS:	BY	DATE
2	UPDATED ARCH. PLANS; EGRESS PADS	JDR	6/02/20
1	ADDED SECTION A-A'	CY	9/30/19

GD-1_GRADING & DRAINAGE PLAN

LIFE STORAGE, INC.
(SITE #230 BREWSTER)
TOWN OF SOUTHEAST - PUTNAM COUNTY, NY

SHEET NO.
07

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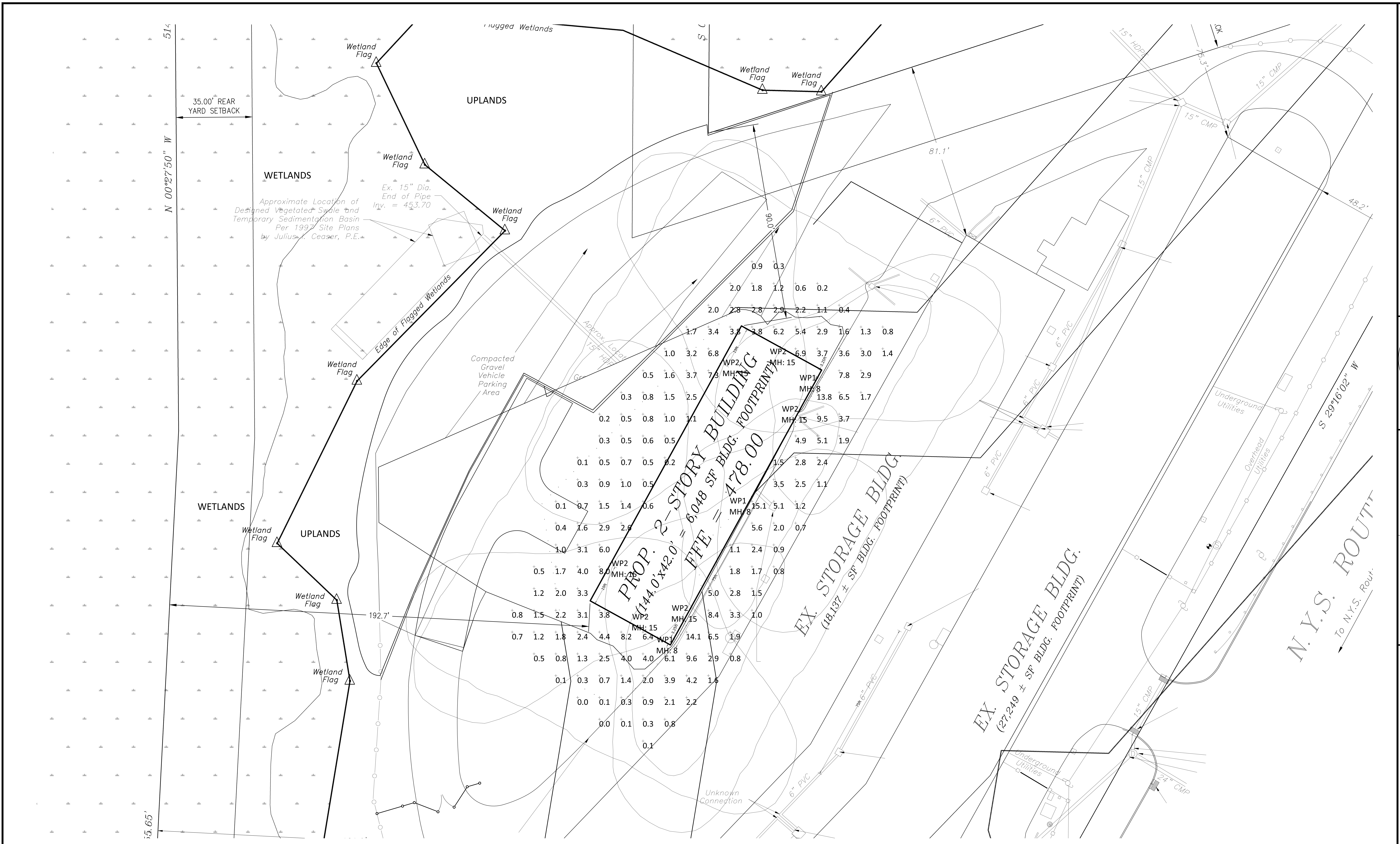
Flagged Wetlands
Wetland Flag
UPLANDS
35.00' REAR YARD SETBACK
N 00°27'50" W
WETLANDS
Ex. 15" Dia. End of Pipe Inv. = 453.70
Approximate Location of Designed Vegetated Swale and Temporary Sedimentation Basin Per 1997 Site Plans by Julius J. Ceaser, P.E.
Edge of Flagged Wetlands
Compacted Gravel Vehicle Parking Area
Approx. Location 15" HDPE
81.1'
90.0'
48.2'
15" HDPE
15" CMP
6" PVC
24" CMP
PROP. 2-STORY BUILDING (144.0'x42.0' = 6,048 SF BLDG. FOOTPRINT) FFE = 478.00
WP1 MH: 8
WP2 MH: 15
EX. STORAGE BLDG. (18,137 ± SF BLDG. FOOTPRINT)
EX. STORAGE BLDG. (27,249 ± SF BLDG. FOOTPRINT)
Underground Utilities
Overhead Utilities
S 29°16'02" W
N.Y.S. ROUTE
To N.Y.S. Route
WETLANDS
UPLANDS
192.7'
Unknown Connection
55.65'

LIGHTING PHOTOMETRICS

SCALE: 1" = 20'

0 20' 40'
SCALE IN FEET

FIXTURE	MOUNTING HEIGHT (ft)	QUANTITY	PRODUCT INFO
WP-1	8	3	LytePro 16 LED Wall Sconce, 30W, 530 mA, 4000K, 120-277V, DARK GRAY TEXTURED PAINT
WP-2	15	6	LytePro 32 LED Wall Sconce, 71W, 700 mA, 4000K, 120-277V, DARK GRAY TEXTURED PAINT

SEE ARCHITECTURAL ELEVATIONS, SHEET A4.1

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STATE OF NEW YORK
LICENSED PROFESSIONAL ENGINEER
No. 131

SCALE: AS NOTED		DRAWN BY:	C.Y.
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DWG NO.: LD-3		JOB NO.:	BUF-2015049.041
NO.	REVISIONS:	BY	DATE

LD-3_LIGHTING PHOTOMETRICS

LIFE STORAGE, INC.
(SITE #230 BREWSTER)
TOWN OF SOUTHEAST - PUTNAM COUNTY, NY

SHEET NO.
13

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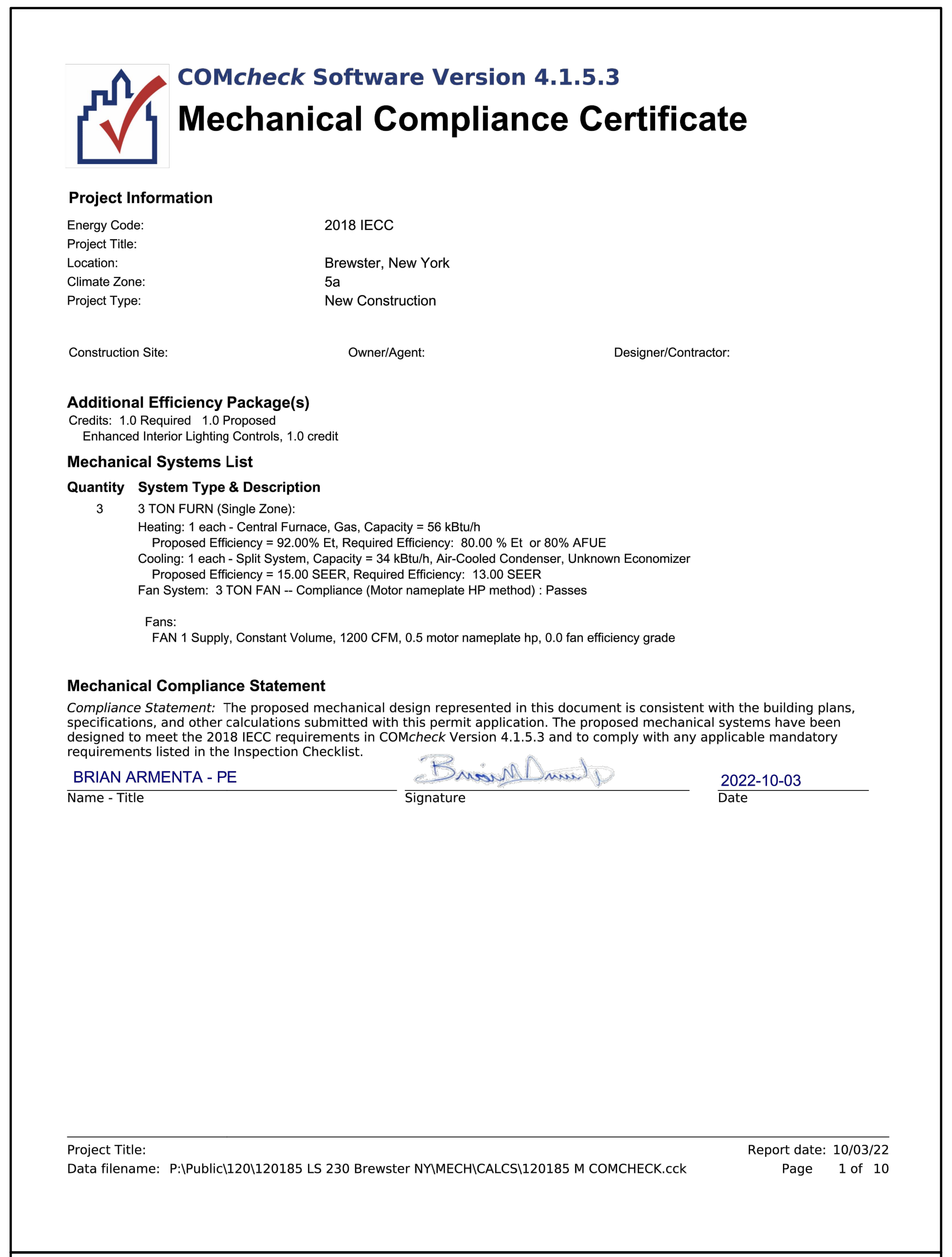


COM*check* Software Version 4.1.5.3

Mechanical Compliance Certificate

Project Information

Energy Code:	2018 IECC
Project Title:	
Location:	Brewster, New York
Climate Zone:	5a
Project Type:	New Construction

Construction Site: Owner/Agent: Designer/Contractor:

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed

Enhanced Interior Lighting Controls, 1.0 credit

Mechanical Systems List

Quantity	System Type & Description
3	3 TON FURN (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 56 kBtu/h Proposed Efficiency = 92.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE Cooling: 1 each - Split System, Capacity = 34 kBtu/h, Air-Cooled Condenser, Unknown Economizer Proposed Efficiency = 15.00 SEER, Required Efficiency: 13.00 SEER Fan System: 3 TON FAN -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 1 Supply, Constant Volume, 1200 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade

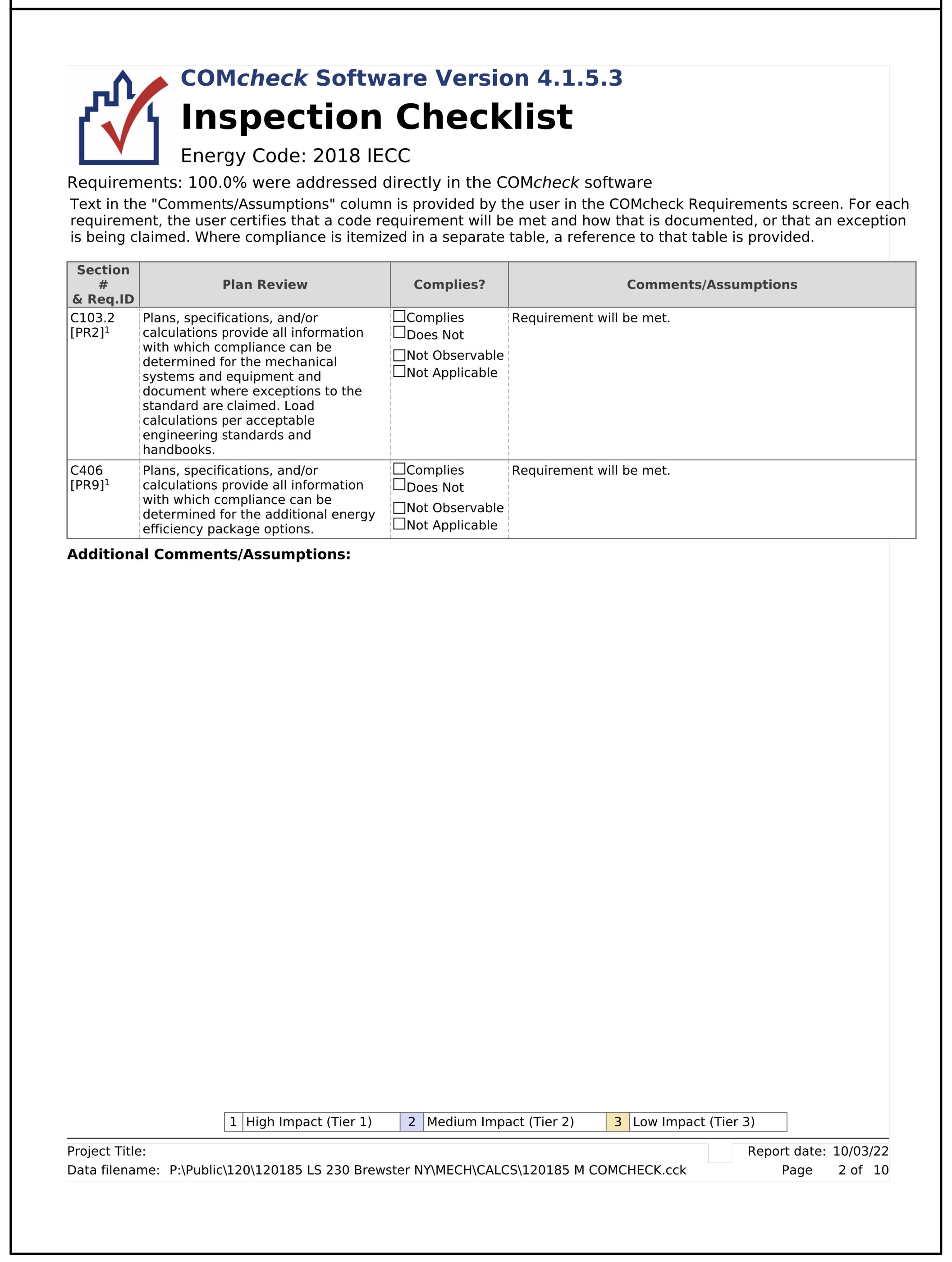
Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COM*check* Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

BRIAN ARMENTA - PE		2022-10-03
Name - Title	Signature	Date

Project Title: Report date: 10/03/22

Data filename: P:\Public\120\120185 LS 230 Brewster NY\MECH\CALCS\120185 M COMCHECK.cck Page 1 of 10



COM*check* Software Version 4.1.5.3

Inspection Checklist

Energy Code: 2018 IECC

Requirements: 100.0% were addressed directly in the COM*check* software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR2][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C406 [PR9][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Project Title: Report date: 10/03/22

Data filename: P:\Public\120\120185 LS 230 Brewster NY\MECH\CALCS\120185 M COMCHECK.cck Page 2 of 10

SPECIFICATIONS

GAS FURNACE

FURNISH A SCHEDULED FIXED CAPACITY GAS FIRED FURNACE FOR USE WITH NATURAL GAS OR PROPANE FURNISH COLD AIR RETURN PLENUM FURNISH EXTERNAL MEDIAL CABINET FOR USE WITH ACCESSORY MEDIA FILTER OR STANDARD FILTER.

QUALITY ASSURANCE UNIT WILL BE DESIGNED, TESTED AND CONSTRUCTED TO THE CURRENT ANSI Z 21.47/CSA 2.3 DESIGN STANDARD FOR GAS FIRED CENTRAL FURNACES. UNIT WILL BE 3RD PARTY CERTIFIED BY CSA TO THE CURRENT ANSI Z 21.47/CSA 2.3 DESIGN STANDARD FOR GAS FIRED CENTRAL FURNACES. UNIT WILL CARRY THE CSA BLUE STARR AND BLUE FLAMER LABELS. UNIT EFFICIENCY TESTING WILL BE PERFORMED PER THE CURRENT DOE TEST PROCEDURE AS LISTED IN THE FEDERAL REGISTER. UNIT WILL BE CERTIFIED FOR CAPACITY AND EFFICIENCY AND LISTED IN THE LATEST GAMA CONSUMER'S DIRECTORY OF CERTIFIED EFFICIENCY RATINGS. UNIT SHALL CARRY THE CURRENT FEDERAL TRADE COMMISSION ENERGY GUIDE EFFICIENCY LABEL.

DELIVERY, STORAGE AND HANDLING UNIT SHALL BE SHIPPED AS SINGLE PACKAGE ONLY AND IS STORED AND HANDLED PER UNIT MANUFACTURER'S RECOMMENDATIONS.

COMPONENTS SHALL INCLUDE SLOW OPENING GAS VALVE TO REDUCE IGNITION NOISE, REGULATE GAS FLOW, WITH ELECTRIC SWITCH GAS SHUT OFF FLAME PROVING SENSOR, HOT SURFACE IGNITER, PRESSURE SWITCH ASSEMBLY, FLAME ROLLOUT SWITCH, BLOWER AND INDUCER ASSEMBLY, 40VA TRANSFORMER DIGITAL LOW VOLTAGE HEATING/COOLING THERMOSTAT.

BLOWER WHEEL AND BLOWER MOTOR GALVANIZED BLOWER WHEEL SHALL BE CENTRIFUGAL TYPE, STATICALLY AND DYNAMICALLY BALANCED. BLOWER MOTOR OF PSC TYPE SHALL BE PERMANENTLY LUBRICATED WITH SEALED BEARINGS, AND SHALL BE MULTIPLE SPEED DIRECT DRIVE. BLOWER MOTOR SHALL BE SOFT MOUNTED TO THE BLOWER SCROLL TO REDUCE VIBRATION TRANSMISSION.

FURNACE MAY HAVE REUSABLE TYPE FILTERS.

CASING SHALL BE OF .030 IN. THICKNESS MINIMUM, PRE PAINTED GALVANIZED STEEL.

INDUCER MOTOR SHALL BE SOFT MOUNTED TO REDUCE VIBRATION TRANSMISSION.

DRAFT SAFEGUARD SWITCH SHALL BE FACTORY INSTALLED TO REDUCE THE POSSIBILITY OF VENT GAS INFILTRATION DUE TO A BLOCKED OR RESTRICTED VENT PIPE.

HEAT EXCHANGERS SHALL BE A 4 PASS 20 GAGE ALUMINIZED STEEL OF FOLD AND CRIMP SECTIONAL DESIGN WHEN APPLIED OPERATING UNDER NEGATIVE PRESSURE.

CONTROL SHALL INCLUDE A MICRO PROCESSOR BASED INTEGRATED ELECTRONIC CONTROL BOARD WITH AT LEAST 11 SERVICE TROUBLESHOOTING CODES DISPLAYED VIA DIAGNOSTIC FLASHING LED LIGHT ON THE CONTROL, A SELF TEST FEATURE THAT CHECKS ALL MAJOR FUNCTIONS OF THE FURNACE WITHIN ONE MINUTE, AND A REPLACEABLE AUTOMOTIVE TYPE CIRCUIT PROTECTION FUSE. MULTIPLE OPERATIONAL SETTINGS AVAILABLE INCLUDING, SEPARATE BLOWER SPEEDS FOR HEATING, COOLING AND CONTINUOUS FAN. CONTINUOUS FAN SPEED MAY BE ADJUSTED FROM THE THERMOSTAT. COOLING AIRFLOW WILL BE SELECTABLE BETWEEN 350 OR 400 CFM PER TON OF AIR CONDITIONING.

CONDENSER UNIT

OUTDOOR MOUNTED, AIR COOLED, SPLIT SYSTEM AIR CONDITIONER UNIT SUITABLE FOR GROUND OR ROOFTOP INSTALLATION. UNIT CONSISTS OF A HERMETIC COMPRESSOR, AN AIR COOLED COIL, PROPELLER TYPE CONDENSER FAN, AND A CONTROL BOX. UNIT WILL DISCHARGE SUPPLY AIR UPWARD AS SHOWN ON CONTRACT DRAWINGS. UNIT WILL BE USED IN A REFRIGERATION CIRCUIT TO MATCH UP TO A PACKAGED FAN COIL OR COIL UNIT.

QUALITY ASSURANCE
— UNIT WILL BE RATED IN ACCORDANCE WITH THE LATEST EDITION OF AHRI STANDARD 210.
— UNIT WILL BE CERTIFIED FOR CAPACITY AND EFFICIENCY, AND LISTED IN THE LATEST AHRI DIRECTORY.
— UNIT CONSTRUCTION WILL COMPLY WITH LATEST EDITION OF ANSI/ ASHRAE AND WITH NEC.
— UNIT WILL BE CONSTRUCTED IN ACCORDANCE WITH UL STANDARDS AND WILL CARRY THE UL LABEL OF APPROVAL. UNIT WILL HAVE C UL US APPROVAL.
— UNIT CABINET WILL BE CAPABLE OF WITHSTANDING FEDERAL TEST METHOD STANDARD NO. 141 (METHOD 6061) 500 HR SALT SPRAY TEST.
— AIR COOLED CONDENSER COILS WILL BE LEAK TESTED AT 150 PSIG AND PRESSURE TESTED AT 450 PSIG.
— UNIT CONSTRUCTED IN ISO9001 APPROVED FACILITY.

DELIVERY, STORAGE, AND HANDLING UNIT WILL BE SHIPPED AS SINGLE PACKAGE ONLY AND IS STORED AND HANDLED PER UNIT MANUFACTURER'S RECOMMENDATIONS.

FACTORY ASSEMBLED, SINGLE PIECE, AIR COOLED AIR CONDITIONER UNIT. CONTAINED WITHIN THE UNIT ENCLOSURE IS ALL FACTORY WIRING, PIPING, CONTROLS, COMPRESSOR, REFRIGERANT CHARGE R 410A, AND SPECIAL FEATURES REQUIRED PRIOR TO FIELD START UP.

UNIT CABINET WILL BE CONSTRUCTED OF GALVANIZED STEEL, BONDERIZED, AND COATED WITH A POWDER COAT PAINT. 3 PHASE EQUIPMENT AVAILABLE WITH DENSE GRILLE ONLY. SINGLE PHASE EQUIPMENT AVAILABLE WITH WIDE (W) OR DENSE (A) GRILLE OPTION.

FANS
— CONDENSER FAN WILL BE DIRECT DRIVE PROPELLER TYPE, DISCHARGING AIR UPWARD.
— CONDENSER FAN MOTORS WILL BE TOTALLY ENCLOSED, 1 PHASE TYPE WITH CLASS B INSULATION AND PERMANENTLY LUBRICATED BEARINGS. SHAFTS WILL BE CORROSION RESISTANT.
— FAN BLADES WILL BE STATICALLY AND DYNAMICALLY BALANCED.
— CONDENSER FAN OPENINGS WILL BE EQUIPPED WITH COATED STEEL WIRE SAFETY GUARDS.
COMPRESSOR
— COMPRESSOR WILL BE HERMETICALLY SEALED.
— COMPRESSOR WILL BE MOUNTED ON RUBBER VIBRATION ISOLATORS.

CONDENSER COIL
— CONDENSER COIL WILL BE AIR COOLED.
— COIL WILL BE CONSTRUCTED OF ALUMINUM FINS MECHANICALLY BONDED TO COPPER TUBES WHICH ARE THEN CLEANED, DEHYDRATED, AND SEALED.

REFRIGERATION COMPONENTS
— REFRIGERATION CIRCUIT COMPONENTS WILL INCLUDE LIQUID LINE SHUTOFF VALVE WITH SWEAT CONNECTIONS, VAPOR LINE SHUTOFF VALVE WITH SWEAT CONNECTIONS, SYSTEM CHARGE OF R 410 REFRIGERANT, AND COMPRESSOR OIL.
— UNIT WILL BE EQUIPPED WITH HIGH PRESSURE SWITCH, LOW PRESSURE SWITCH AND FILTER DRIER FOR PURON REFRIGERANT.

ELECTRIC WALL HEATER

ELECTRIC WALL HEATERS SHALL BE Q MARK MODEL AWH OR EQUAL.

THE HEATER ASSEMBLY WHICH FITS INTO THE BACK BOX SHALL CONSIST OF A FAN PANEL UPON WHICH IS MOUNTED ALL OF THE OPERATIONAL PARTS OF THE HEATER.

THE HEATING ELEMENT SHALL BE OF NON GLOWING DESIGN CONSISTING OF AN 80/20 NICKEL CHROMIUM RESISTANCE WIRE ENCLOSED IN A STEEL SHEATH TO WHICH PLATE FINS ARE COPPER BRAZED. IT SHALL BE WARRANTED FOR 5 YEARS.

THE FAN SHALL BE FIVE BLADED ALUMINUM. THE FAN MOTOR SHALL BE TOTAL ENCLOSED.

FAN CONTROL SHALL BE OF BI METALLIC, SNAP ACTION TYPE AND SHALL ACTIVATE FAN AFTER HEATING ELEMENT REACHES OPERATING TEMPERATURE. THE FAN SHALL CONTINUE TO OPERATE AFTER THE THERMOSTAT IS SATISFIED AND UNTIL THE HEATING ELEMENT IS COOL.

THE TAMPER PROOF THERMOSTAT SHALL BE OF BI METALLIC, SNAP ACTION TYPE WITH ENCLOSED CONTACTS. IT SHALL BE COMPLETELY CONCEALED BEHIND THE FRONT COVER TO BECOME TAMPER PROOF.

A THERMAL CUTOUT SHALL BE BUILT INTO THE SYSTEM TO SHUT OFF THE HEATER IN THE EVENT OF OVERHEATING.

A DOUBLE POLE SINGLE THROW DISCONNECT SWITCH SHALL BE MOUNTED ON THE BACK BOX FOR POSITIVE DISCONNECT OF POWER SUPPLY. IT WILL BE COMPLETELY CONCEALED BEHIND THE FRONT GRID PANEL.

WHERE SCHEDULED, NORMALLY OPEN 24 VOLT AND 120 VOLT LOW VOLTAGE HOLDING COIL RELAYS SHALL BE AVAILABLE TO CONTROL HEATERS IN CONJUNCTION WITH CENTRAL ENERGY CONTROL SYSTEMS. THE BUILT IN THERMOSTAT CAN THEN BE USED AS ONE OF THE THERMOSTATS IN AN AUTOMATIC NIGHT SET BACK OPERATION.

THE BACK BOX SHALL BE DESIGNED FOR DUTY AS RECESSED ROUGH IN BOX IN EITHER MASONRY OR FRAME INSTALLATIONS AND IS ALSO USED WITH THE SURFACE MOUNTING FRAME IN SURFACE MOUNTING INSTALLATIONS. THE BACK BOX SHALL BE 20 GAUGE GALVANIZED STEEL AND SHALL CONTAIN KNOCKOUTS THROUGH WHICH POWER LEADS ARE BROUGHT.

THE FRONT PANEL SHALL BE OF THE BAR GRILLE TYPE AND SHALL BE CONSTRUCTED OF 16 GAUGE COLD ROLLED STEEL, WELDED INTO A UNIFORM GRILLE AND FINISHED IN BAKED ENAMEL TO DIRECT THE WARMED AIR TOWARD THE FLOOR. THE FRONT GRILLE SHALL BE SURROUNDED BY A DECORATIVE SATIN FINISH ALUMINUM FRAME.

THE HEATER SHALL BE MADE OF A BACK BOX, A HEATER ASSEMBLY, AND A FRONT PANEL.

REFER TO EQUIPMENT SCHEDULE FOR BASIS OF DESIGN AND ACCEPTABLE ALTERNATES.

SPECIFICATIONS

GENERAL NOTES

REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL CEILING MOUNTED EQUIPMENT.

ALL DUCT DIMENSIONS INDICATED IN THESE DOCUMENTS ARE INSIDE CLEAR DIMENSIONS.

PORTIONS OF DUCTWORK OR PIPING VISIBLE THROUGH GRILLES AND REGISTERS IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK. PAINT BLACK BEHIND ALL GRILLES.

ALL WIRING IN THE CEILING PLENUM SHALL BE PLENUM RATED CABLE.

MOUNTING FRAME OF CEILING MOUNTED AIR DISTRIBUTION DEVICES SHALL BE COMPATIBLE WITH CEILING TYPE. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPE.

ALL FIRE SEPARATIONS MUST BE PROTECTED WHEN APPLICABLE.

PROVIDE NEW FILTERS (MERV 7 OR BETTER PER OWNER) FOR ALL APPLICABLE HVAC EQUIPMENT AT THE END OF CONSTRUCTION.

ALL MATERIAL IN PLENUM MUST MEET FIRE AND SMOKE SPREAD AS REQUIRED BY NFPA 90A.

ALL ROOF PENETRATIONS TO BE 12" APART AND AT LEAST 12" AWAY FROM CURBS, WALLS, AND DRAIN SUMPS TO PROVIDE ROOFING CONTRACTOR WITH SUFFICIENT ACCESS FOR FLASHING EACH ROOF PENETRATION.

SUBSTITUTIONS MUST BE APPROVED IN WRITING BY ARCHITECT PRIOR TO BID SUBMISSION.

CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS AND SHALL BE FAMILIAR WITH THE SCOPE AND REQUIREMENTS OF THIS PROJECT. ANY DISCREPANCIES OR LACK OF CLARITY IN THE DOCUMENTS SHALL BE IDENTIFIED TO THE ARCHITECT OR ENGINEER PRIOR TO THE SUBMISSION OF PRICING BIDS. WITH A SUBMITTED BID, CONTRACTOR IS ACCEPTING THESE DOCUMENTS AS SUFFICIENT DEFINITION OF THE SCOPE OF WORK, AND ANY ADDITIONAL COSTS BASED ON UNCLARITY OF CONTRACT DOCUMENTS WILL NOT BE CONSIDERED.

THE CONTRACTOR SHALL REFERENCE THE FULL SET OF CONSTRUCTION DOCUMENTS DURING PRICING AND CONSTRUCTION FOR COORDINATION BETWEEN DISCIPLINES RELATIVE TO THE MECHANICAL SCOPE.

DIFFUSERS, GRILLES, REGISTERS

DOUBLE DEFLECTION REGISTERS

ALUMINUM SUPPLY GRILLES SHALL BE OF THE SIZES AND MOUNTING TYPES SHOWN ON THE PLANS AND OUTLET SCHEDULE. THE DEFLECTION BLADES SHALL BE AVAILABLE PARALLEL TO THE LONG OR SHORT DIMENSION OF THE GRILLE OR REGISTER. CONSTRUCTION SHALL BE OF ALUMINUM WITH A 1 INCH WIDE BORDER ON ALL SIDES. SIZES 24 X 24 INCHES AND BELOW SHALL HAVE ROLL FORMED BORDERS WITH A MINIMUM THICKNESS OF 0.032 INCH. LARGER SIZES SHALL BE CONSTRUCTED USING CONTINUOUS ALUMINUM EXTRUSIONS WITH A NOMINAL THICKNESS OF 0.040 THROUGH 0.050 INCH AND SHALL BE INTERLOCKED AT THE FOUR CORNERS AND MECHANICALLY STAKED TO FORM A RIGID FRAME. SCREW HOLES SHALL BE COUNTERSUNK FOR A NEAT APPEARANCE.

DEFLECTION BLADES SHALL BE CONTOURED TO A SPECIFICALLY DESIGNED AND TESTED CROSS SECTION TO MEET PUBLISHED TEST PERFORMANCE DATA. BLADES SHALL BE SPACED ON ¾ INCH CENTERS. BLADES SHALL HAVE FRICTION PIVOTS ON BOTH SIDES TO ALLOW INDIVIDUAL BLADE ADJUSTMENT WITHOUT LOOSENING OR RATTLING OR BE INSERTED THROUGH THE FRAME AND HELD TIGHT WITH STEEL FRICTION WIRE INTERLOCKED TO THE FRAME ON BOTH ENDS OF EACH SIDE. PLASTIC BLADE PIVOTS ARE NOT ACCEPTABLE.

OPTIONAL OPPOSED BLADE VOLUME DAMPER SHALL BE CONSTRUCTED OF HEAVY GAUGE STEEL OR ALUMINUM. DAMPER MUST BE OPERABLE FROM THE FACE OF THE GRILLE.

THE GRILLE FINISH SHALL BE 26 WHITE. THE FINISH SHALL BE AN ANODIC ACRYLIC PAINT, BAKED AT 315 F FOR 30 MINUTES. THE PENCIL HARDNESS MUST BE HB TO H. THE PAINT MUST PASS A 100 HOUR ASTM B117 CORROSIVE ENVIRONMENTS SALT SPRAY TEST WITHOUT CREEPAGE, BLISTERING OR DETERIORATION OF FILM. THE PAINT MUST PASS A 250 HOUR ASTM D870 WATER IMMERSION TEST. THE PAINT MUST ALSO PASS THE ASTM D2794 REVERSE IMPACT CRACKING TEST WITH A 50 INCH POUND FORCE APPLIED.

THE MANUFACTURER SHALL PROVIDE PUBLISHED PERFORMANCE DATA FOR THE GRILLE. THE GRILLE SHALL BE TESTED IN ACCORDANCE WITH ANSI/ASHRAE STANDARD 70 2006.

DUCTWORK AND ACCESSORIES

INDUSTRY STANDARDS COMPLY WITH SMACNA (SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION) HVAC DUCT CONSTRUCTION STANDARDS, RECOMMENDATIONS FOR FABRICATION, GAUGES, CONSTRUCTION AND DETAILS, AND INSTALLATION PROCEDURES, EXCEPT AS OTHERWISE INDICATED.

COMPLY WITH ASHRAE (AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS) FUNDAMENTALS HANDBOOK RECOMMENDATIONS, EXCEPT AS OTHERWISE INDICATED.

DUCTWORK METAL AND GAUGES EXCEPT AS OTHERWISE INDICATED, FABRICATE DUCTWORK FROM GALVANIZED SHEET STEEL COMPLYING WITH ASTM A527, LOCKFORMING QUALITY, WITH ASTM A525 G90 ZINC COATING, MILL PHOSPHATIZED. GAUGES TO COMPLY WITH SMACNA STANDARDS.

DUCT SEALANT NON HARDENING, NON MIGRATING MASTIC OR LIQUID ELASTIC SEALANT (TYPE APPLICABLE FOR THE FABRICATION/INSTALLATION DETAIL) AS COMPOUNDED AND RECOMMENDED BY THE MANUFACTURER SPECIFICALLY FOR SEALING JOINTS AND SEAMS IN DUCTWORK.

DUCTWORK SUPPORT MATERIALS EXCEPT AS OTHERWISE INDICATED, PROVIDE UPPER ATTACHMENT, HANGERS OF GALVANIZED STEEL STRAPS, OR STEEL RODS AND LOWER ATTACHMENT FOR SUPPORT OF DUCTWORK. HANGING/SUPPORT SYSTEMS SHALL BE IN ACCORDANCE WITH SMACNA REQUIREMENTS.

EXPOSED DUCTWORK SHALL BE DOUBLE WALL SPIRAL PIPE WITH PAINT GRIP UNLESS OTHERWISE NOTED OR SUBSTITUTION APPROVED BY OWNER.

VOLUNTARY ALTERNATE EXPOSED DUCTWORK SHALL BE SINGLE WALL SPIRAL PIPE UNLESS OTHERWISE NOTED OR SUBSTITUTION APPROVED BY OWNER. ALL EXPOSED DUCTWORK SHALL BE LINED IN LIEU OF WRAPPED. DUCT LINER THERMAL RESISTANCE SHALL MEET THE MINIMUM VALUES SPECIFIED IN PARAGRAPH DUCT INSULATION BELOW.

DUCTWORK LOCATED OUTSIDE OF THE BUILDING ENVELOPE SHALL BE THERMADUCT PRODUCTS OR COVERED WITH 3M VENTURECLAD JACKETING, OR EQUAL PRODUCT, AND SEALED WEATHER TIGHT.

DUCT INSULATION

R 6 SUPPLY, OUTSIDE AND RETURN AIR DUCT INSULATION IN CONDITIONED AND UNCONDITIONED SPACES
R 8 SUPPLY AND RETURN AIR DUCT INSULATION OUTSIDE THE BUILDING
R 8 INSULATION BETWEEN DUCTS AND THE BUILDING EXTERIOR WHEN DUCTS ARE PART OF A BUILDING ASSEMBLY

WALL LOUVERS

THE WALL LOUVER SHALL BE AMCA CERTIFIED. THE WALL LOUVER SHALL BE A STATIONARY, DRAINABLE BLADE TYPE. THE LOUVER SHALL INCORPORATE DRAIN GUTTERS IN THE HEAD MEMBER AND HORIZONTAL BLADES TO CHANNEL WATER TO THE JAMBS WHERE WATER IS FURTHER CHANNELED THROUGH VERTICAL DOWNSPOUTS AND OUT A SLOPED SILL.

THE FRAME AND BLADES SHALL BE CONSTRUCTED FROM HEAVY GAUGE, EXTRUDED, ALUMINUM. THE LOUVER SHALL BE OF MECHANICALLY FASTENED CONSTRUCTION.

REFER TO THE EQUIPMENT SCHEDULE FOR A FULL LISTING OF REQUIRED LOUVER ACCESSORIES.

DUCTLESS SPLIT SYSTEM

WALL MOUNTED INDOOR UNIT
STANDARD PREFILTER IS INCLUDED WITH INDOOR UNIT
CHOICE OF FAN SPEEDS LOW, MEDIUM, HIGH
INDOOR UNIT POWERED FROM OUTDOOR UNIT
AUTO RESTART FOLLOWING A POWER OUTAGE
BASE HEATER
LIMITED WARRANTY FIVE YEARS ON PARTS AND DEFECTS AND SEVEN YEARS ON THE COMPRESSOR

SEE SCHEDULE FOR LIST OF ACCEPTABLE MANUFACTURERS.

LEGEND

SYMBOLS	DESCRIPTION
$\frac{X1}{X2}$	DIFFUSER, GRILLE, REGISTER OR LOUVER TAG X1 TYPE, X2 CFM
⊠	POSITIVE PRESSURE (AIR GOES OUT) DIFFUSER OR REGISTER, 4 WAY AIR PATTERN (UNLESS OTHERWISE NOTED)
◸	NEGATIVE PRESSURE (AIR GOES IN) GRILLE
→	POSITIVE PRESSURE AIRFLOW (TYP. SUPPLY)
⇢	NEGATIVE PRESSURE AIRFLOW (TYP. RETURN/EXHAUST)
‖‖‖‖	FLEXIBLE DUCT
⌈	MANUAL VOLUME DAMPER (MVD)
⏢	BACKDRAFT DAMPER (BDD)
FD	VERTICAL (TYP. WALL) FIRE DAMPER
FSD	VERTICAL (TYP. WALL) COMBINATION FIRE/SMOKE DAMPER
FD	HORIZONTAL (TYP. FLOOR/CEILING) FIRE DAMPER
FSD	HORIZONTAL (TYP. FLOOR/CEILING) COMBINATION FIRE/SMOKE DAMPER
Ⓣ	THERMOSTAT
Ⓗ	HUMIDISTAT
Ⓢ	REMOTE TEMPERATURE SENSOR
⏢	INTERNALLY LINED DUCT
◐	DUCT UP
⊠	DUCT UP
◸	DUCT DOWN
⏢	SUPPLY DUCT
UNIT	EQUIPMENT TYPE EQUIPMENT NUMBER. WHERE A LETTER IS USED, THERE ARE MULTIPLE INSTANCES.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	MA	MAKE UP AIR
BDD	BACKDRAFT DAMPER	MAU	MAKE UP AIR UNIT
AHU	AIR HANDLING UNIT	MAV	MANUAL AIR VENT
CO2	CARBON DIOXIDE	MBH	1,000 BTU PER HR
D	CONDENSATE DRAIN	MFCU	MINI FAN COIL UNIT
DB	DRY BULB	MHP	MINI HEAT PUMP
EA	EXHAUST AIR	MVD	MANUAL VOLUME DAMPER
EAT	ENTERING AIR TEMPERATURE	NC	NORMALLY CLOSED
EDH	ELECTRIC DUCT HEATER	NO	NORMALLY OPEN
EF	EXHAUST FAN	OA	OUTSIDE AIR
ESP	EXTERNAL STATIC PRESSURE	OBD	OPPOSED BLADE DAMPER
EWH	ELECTRIC WALL HEATER	PIU	POWER INDUCTION UNIT
F	DEGREES FAHRENHEIT	RA	RETURN AIR
FCU	FAN COIL UNIT	RH	RELIEF HOOD
FD	FIRE DAMPER	RTU	ROOFTOP UNIT
FSD	COMBINATION FIRE/SMOKE DAMPER	SA	SUPPLY AIR
H	HUMIDISTAT	SP	STATIC PRESSURE
IH	INTAKE HOOD	UC	UNDER CUT DOOR
LAT	LEAVING AIR TEMPERATURE	VAV	VARIABLE AIR VOLUME
LWT	LEAVING WATER TEMPERATURE	WB	WET BULB
M	MOTOR	WL	WALL LOUVER

SPECIFICATIONS

SHOP DRAWINGS

SUBMIT SHOP DRAWINGS FOR REVIEW. PDF FILES PREFERRED. SHOP DRAWINGS SHALL BE BOUND INTO VOLUMES (FILES), WITH EACH VOLUME (FILE) CONTAINING ONE COPY OF ALL SHOP DRAWINGS. ALL SHOP DRAWINGS SHALL BE SUBMITTED SIMULTANEOUSLY NO SHOP DRAWINGS WILL BE CHECKED UNTIL ALL HAVE BEEN SUBMITTED.

SUBMITTALS SHALL BE SUPPORTED BY DESCRIPTIVE MATERIAL, SUCH AS CATALOG CUTS, DIAGRAMS, PERFORMANCE CURVES AND CHARTS PUBLISHED BY THE MANUFACTURER, TO SHOW CONFORMANCE TO SPECIFICATION AND DRAWING REQUIREMENTS MODEL NUMBERS ALONE WILL NOT BE ACCEPTABLE. ALL LITERATURE SHALL CLEARLY INDICATE THE SPECIFIED MODEL NUMBER, DIMENSIONS, ARRANGEMENT, RATING AND CHARACTERISTICS OF THE PROPOSED EQUIPMENT. CAPACITIES AND RATINGS SHALL BE BASED ON CONDITIONS INDICATED OR SPECIFIED HEREIN. ANY DEVIATIONS FROM SPECIFIED EQUIPMENT (PARTICULARLY THOSE WHICH REQUIRE COORDINATION WITH OTHER TRADES) SHALL BE CLEARLY NOTED IN A CONCISE LIST ON A SEPARATE SHEET.

TEST AND BALANCE

THE CONTRACTOR SHALL RETAIN THE SERVICES OF AN INDEPENDENT TEST AND BALANCE AGENCY THAT IS INDEPENDENT OF ANY CONTRACTOR, SUB CONTRACTOR, OR MANUFACTURER TO PERFORM THE TESTING AND BALANCING AND PREPARE REPORTS TO THE GENERAL CONTRACTOR. THE INDEPENDENT TEST AND BALANCE AGENCY SHALL HAVE A CERTIFIED MEMBER OF THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB).

TEST AND BALANCE SHALL ALSO PROVIDE QUOTE TO PERFORM BALANCING FOR COMFORT SIX MONTHS AFTER THE SPACE IS OCCUPIED.

P TAB.COM OR EQUIVALENT.

GUARANTEE

GUARANTEE THAT EACH PIECE OF APPARATUS SHALL BE OF THE CUSTOMARY STANDARD AND QUALITY FURNISHED BY THE DESIGNED MANUFACTURER FOR THAT CATALOG NUMBER.

GUARANTEE THAT THE AIR SYSTEMS SHALL OPERATE WITHOUT AERODYNAMIC NOISE GENERATED FROM THE FAULTY INSTALLATION OF DUCT WORK OR ANY COMPONENT OF THE AIR DISTRIBUTION SYSTEM.

GUARANTEE THAT ALL SYSTEMS AND COMPONENTS SHALL BE PROVIDED WITH A ONE YEAR WARRANTY FROM THE TIME OF DATE OF SUBSTANTIAL COMPLETION. THE WARRANTY SHALL COVER ALL MATERIALS AND WORKMANSHIP. DURING THIS WARRANTY PERIOD, ALL DEFECTS IN MATERIALS AND WORKMANSHIP SHALL BE CORRECTED BY REPAIR OR REPLACEMENT WITHOUT INCURRING ADDITIONS TO THE CONTRACT.

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REVISIONS:

PROJECT NUMBER 201941
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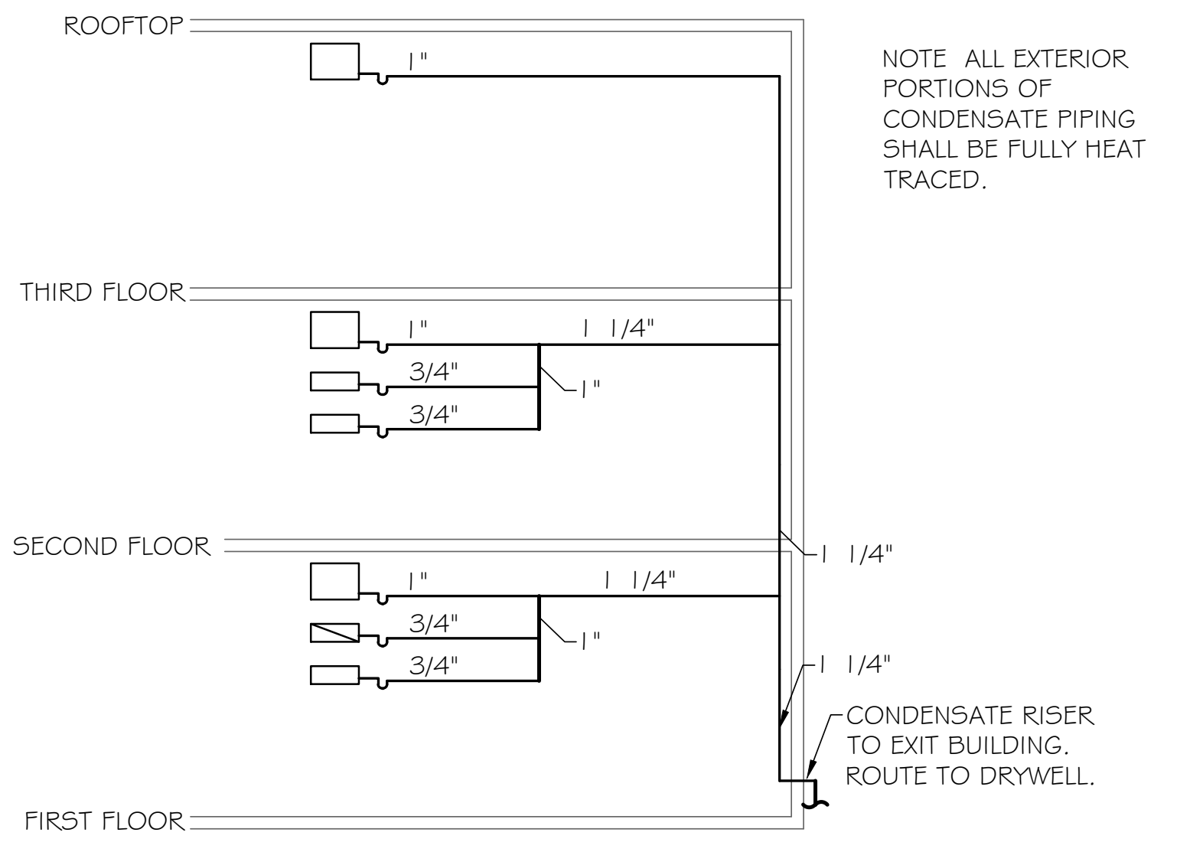
SHEET NUMBER
M0.1

CONDENSATE RISER

NO SCALE

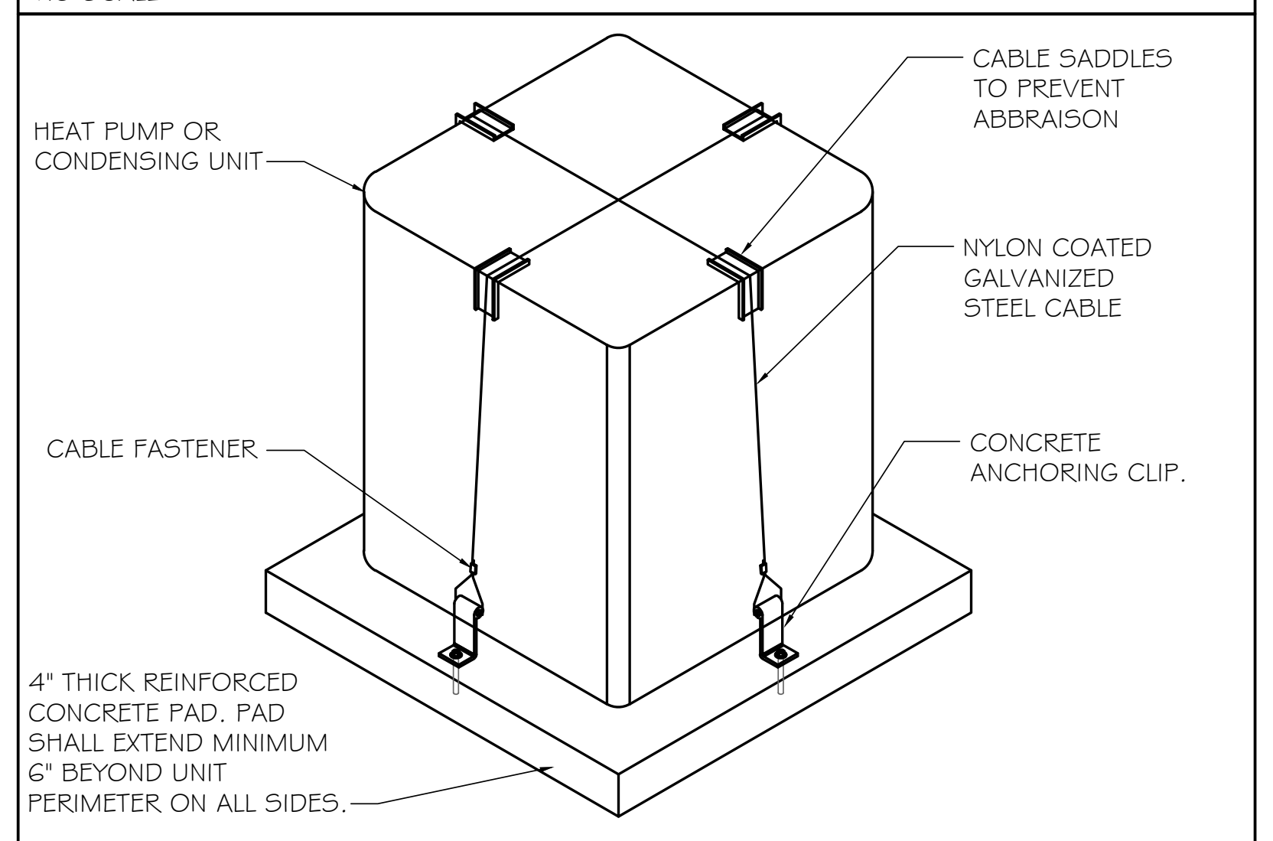


NOTE ALL EXTERIOR PORTIONS OF CONDENSATE PIPING SHALL BE FULLY HEAT TRACED.

TRAP ROUTE CONDENSATE DRAIN LINE FROM EACH FURNACE. REFER TO FLOOR PLANS FOR E UIPMENT TAGS AND LOCATIONS.

GRADE MOUNTED HP/CU WIND RESIST MOUNT

NO SCALE

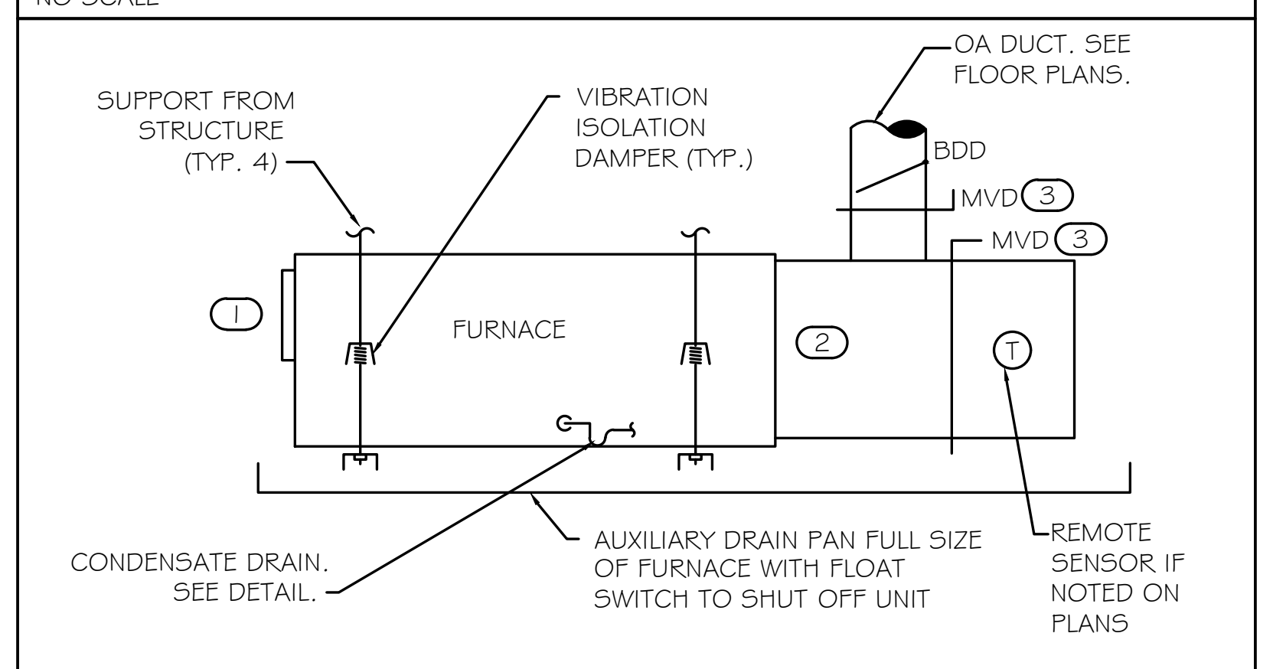

CABLE SADDLES TO PREVENT ABBRAISON
HEAT PUMP OR CONDENSING UNIT
NYLON COATED GALVANIZED STEEL CABLE
CABLE FASTENER
CONCRETE ANCHORING CLIP.
4" THICK REINFORCED CONCRETE PAD. PAD SHALL EXTEND MINIMUM 6" BEYOND UNIT PERIMETER ON ALL SIDES.

NOTES

1. PROVIDE NEOPRENE PADS BETWEEN UNIT AND CONCRETE SLAB.
2. CONTRACTOR SHALL PROVIDE SHOP DRAWING OF CONDENSER STRAP SYSTEM AS MANUFACTURED BY R.M. PRODUCTS OR E UAL TO MEET WIND LOADS PER STRUCTURAL DRAWINGS.

HORIZONTAL FURANCE DETAIL

NO SCALE

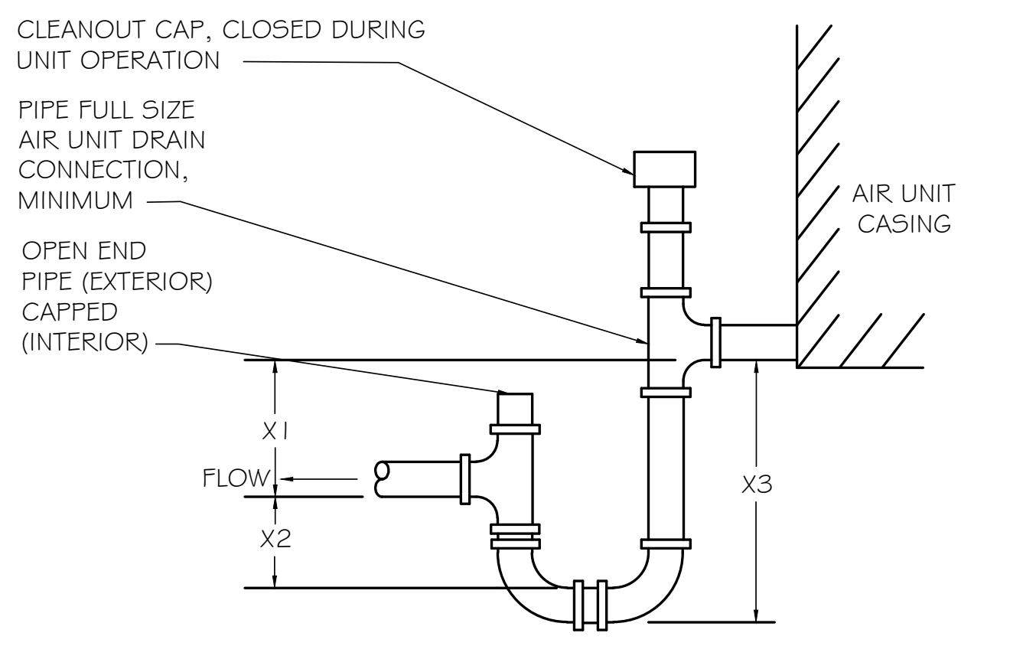

OA DUCT. SEE FLOOR PLANS.
SUPPORT FROM STRUCTURE (TYP. 4)
VIBRATION ISOLATION DAMPER (TYP.)
BDD
MVD 3
MVD 3
1
FURNACE
2
T
CONDENSATE DRAIN. SEE DETAIL.
AUXILIARY DRAIN PAN FULL SIZE OF FURNACE WITH FLOAT SWITCH TO SHUT OFF UNIT
REMOTE SENSOR IF NOTED ON PLANS

KEY NOTES

1. SUPPLY AIR DISCHARGE. PROVIDE FLEXIBLE CONNECTION AND TRANSITION TO SUPPLY AIR DUCT SIZE SHOWN ON FLOOR PLANS.
2. RETURN AIR PLENUM FULL SIZE OF RETURN AIR OPENING. SEE FLOOR PLAN(S) FOR DUCT CONNECTIONS.
3. PROVIDE MOTOR OPERATED DAMPERS WHERE ECONOMIZER OR DEMAND VENTILATION IS SCHEDULED.

CONDENSATE TRAP (DRAW THROUGH UNIT)

NO SCALE


CLEANOUT CAP, CLOSED DURING UNIT OPERATION
PIPE FULL SIZE AIR UNIT DRAIN CONNECTION, MINIMUM
OPEN END PIPE (EXTERIOR) CAPPED (INTERIOR)
AIR UNIT CASING
X1
FLOW
X2
X3

WHERE

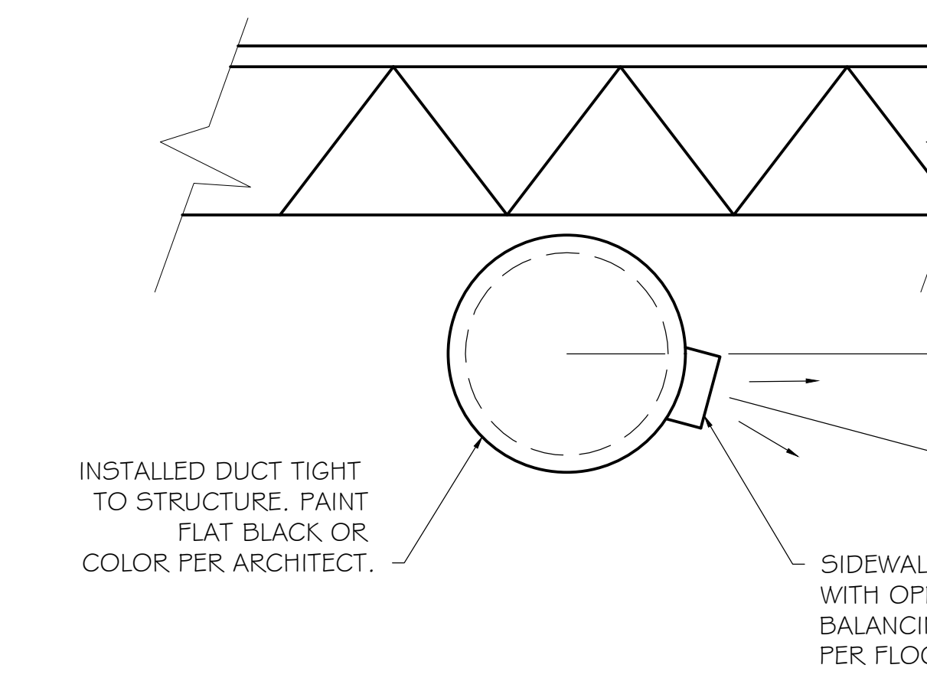
X1 1" PLUS MAXIMUM NEGATIVE STATIC PRESSURE
X2 HALF OF X1
X3 X1 X2 PIPE INSULATION

NOTES

1. LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING.

DIFFUSER DETAIL FOR EXPOSED DUCT

NO SCALE

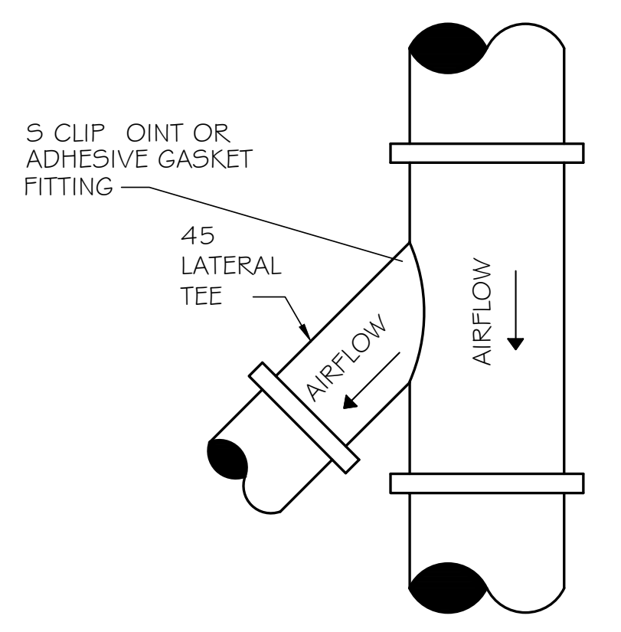

15
INSTALLED DUCT TIGHT TO STRUCTURE. PAINT FLAT BLACK OR COLOR PER ARCHITECT.
SIDEWALL DIFFUSER WITH OPPOSED BLADE BALANCING DAMPER PER FLOOR PLANS

NOTE

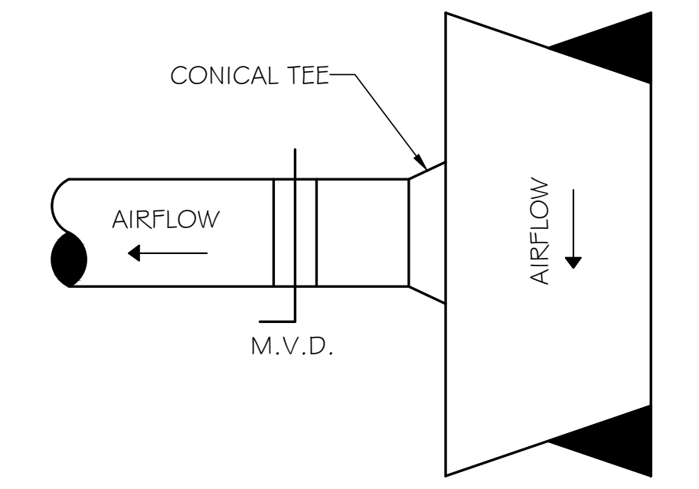
CURVED DIFFUSERS MOUNTED TO SPIRAL ACCEPTABLE ALTERNATIVE.

DUCTWORK DETAILS

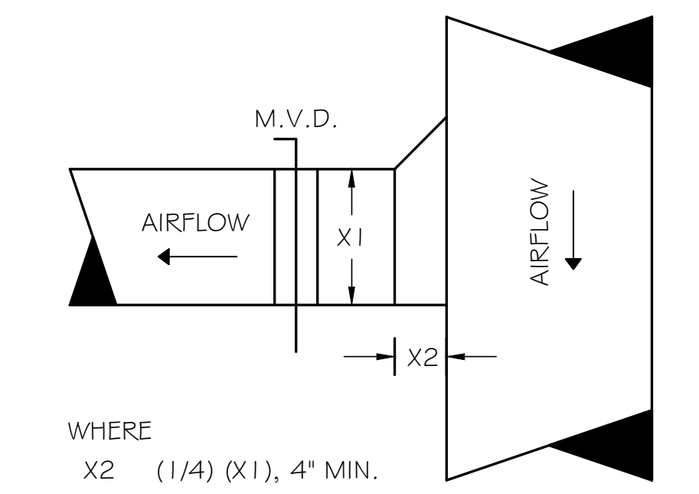
NO SCALE



ROUND ROUND



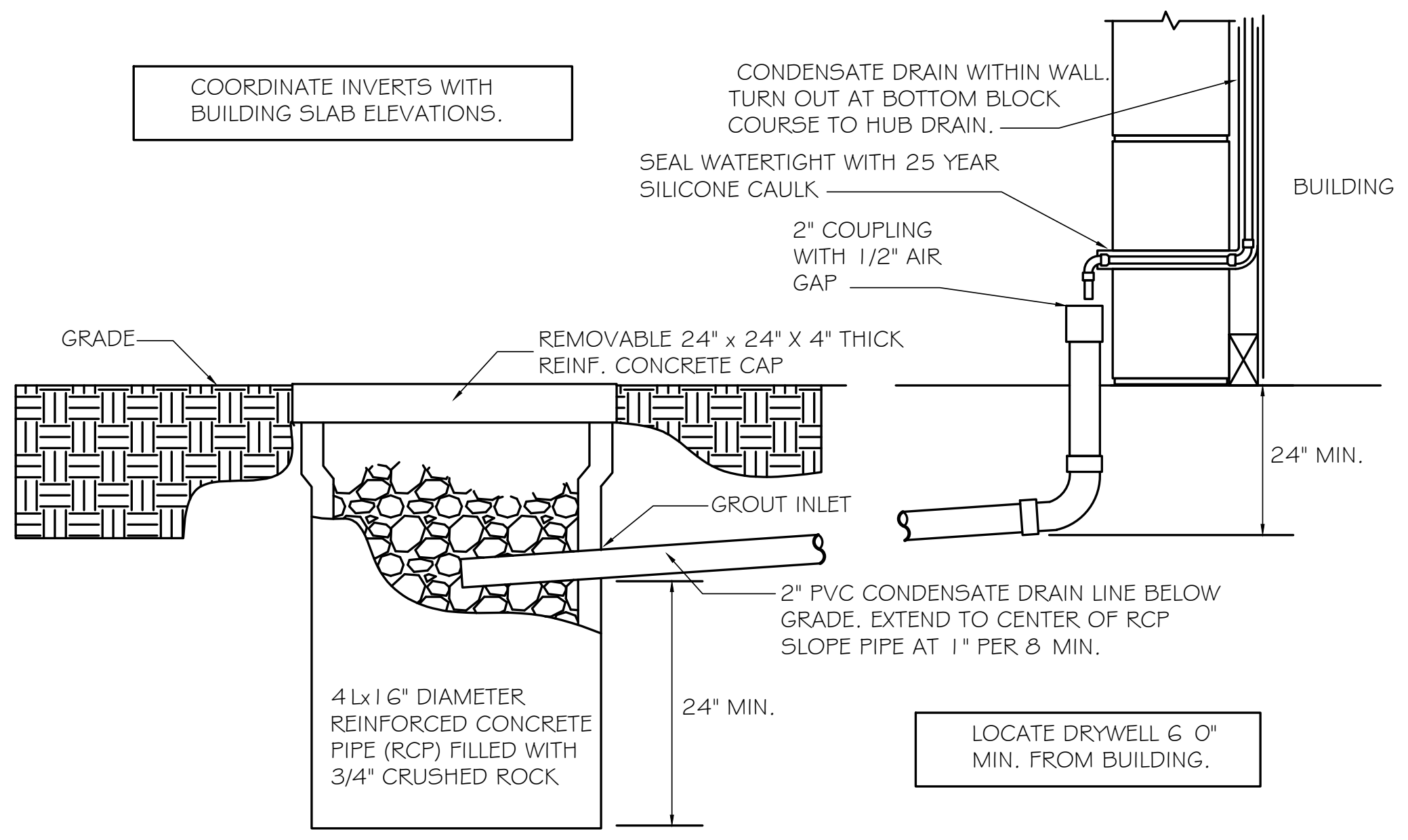
RECTANGULAR ROUND



RECTANGULAR RECTANGULAR

CONDENSATE DRYWELL DETAIL

NO SCALE


COORDINATE INVERTS WITH BUILDING SLAB ELEVATIONS.
CONDENSATE DRAIN WITHIN WALL. TURN OUT AT BOTTOM BLOCK COURSE TO HUB DRAIN.
SEAL WATERTIGHT WITH 25 YEAR SILICONE CAULK
BUILDING
2" COUPLING WITH 1/2" AIR GAP
GRADE
REMOVABLE 24" x 24" X 4" THICK REINF. CONCRETE CAP
24" MIN.
GROUT INLET
2" PVC CONDENSATE DRAIN LINE BELOW GRADE. EXTEND TO CENTER OF RCP SLOPE PIPE AT 1" PER 8 MIN.
4Lx16" DIAMETER REINFORCED CONCRETE PIPE (RCP) FILLED WITH 3/4" CRUSHED ROCK
24" MIN.
LOCATE DRYWELL 6 0" MIN. FROM BUILDING.

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SPLIT DIRECT EXPANSION (DX) EQUIPMENT

INDOOR UNIT																COMBINED COOLING CAPACITIES							REMARKS							
						HEATING										COOLING														
MARK	SERVES	TOTAL S.A. (CFM)	O.A. (CFM)	E.S.P. (IN WG)	MOTOR (hp)	GAS TYPE	EFF. AFUE	GAS IN (BTUH)	GAS OUT (BTUH)	CARRIER FURNACE BASIS OF DESIGN	CARRIER COIL BASIS OF DESIGN	MIN. SEER	REFR.	CARRIER BASIS OF DESIGN	NOMINAL TONNAGE	TOTAL (MBH)	SENS (MBH)	LAT (MBH)	Ent. Tdb (°F)	Ent. Twb (°F)	Lvg. Tdb (°F)	Lvg. Twb (°F)	1	2	3	4	5	6	7	8
FURN-1 / CU-1	BASEMENT	1,200	190	0.50	1/2 ECM	NATURAL	92%	60,000	56,000	59SP2A060E17--14	CNPVP3717AL	15.0	R-410A	24ACC436	3.0	35.2	25.5	9.7	77.4	65.9	57.0	56.0	X	X	X	X	X	X	X	
FURN-2 / CU-2	FIRST FLOOR	1,200	95	0.50	1/2 ECM	NATURAL	92%	60,000	56,000	59SP2A060E17--14	CNPVP3717AL	15.0	R-410A	24ACC436	3.0	34.7	25.3	9.5	76.2	65.0	56.0	55.0	X	X	X	X	X	X	X	
FURN-3 / CU-3	SECOND FLOOR	1,200	200	0.50	1/2 ECM	NATURAL	92%	60,000	56,000	59SP2A060E17--14	CNPVP3717AL	15.0	R-410A	24ACC436	3.0	35.6	25.6	9.9	77.5	66.0	57.0	56.0	X	X	X	X	X	X	X	

NOTES (APPLY TO ALL):

A. SEE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.

B. SUBMITTED UNIT CAPACITIES SHOULD BE WITHIN +/-10% OF SCHEDULED CAPACITIES.

C. BASIS OF DESIGN: CARRIER. SEE SPECIFICATIONS.
ACCEPTABLE ALTERNATES: JCI/YORK, TRANE, DAIKIN/MCQUAY, LENNOX

D. ALL EVAPORATORS AND COOLING COILS LOCATED ABOVE THE LOWEST LEVEL FINISHED FLOOR SHALL BE INSTALLED WITH AN AUXILIARY CONDENSATE DRAIN PAN UNDER THE UNIT. PROVIDE AN ELECTRONIC WATER LEVEL DETECTOR WIRED TO SHUTDOWN THE UNIT OPON DETECTION OF WATER IN THE AUXILIARY DRAIN PAN.

E. AS AN ALTERNATIVE TO THE AUXILIARY CONDENSATE DRAIN PAN, AN ELECTRONIC WATER LEVEL DETECTOR WIRED TO SHUTDOWN THE UNIT UPON DETECTION OF WATER MAY BE INSTALLED IN THE PRIMARY DRAIN LINE, THE OVERFLOW DRAIN LINE OR THE EQUIPMENT SUPPLIED DRAIN PAN. THE WATER LEVEL DETECTOR SHALL BE LOCATED AT A POINT HIGHER THAN TH EPRIMARY DRAIN LINE CONNECTION AND BELOW THE OVERFLOW RIM OF SUCH PAN.

REMARKS (APPLY AS SCHEDULED):

1. PROGRAMMABLE THERMOSTAT.
2. 2-PIPE DIRECT VENTING KIT. PROVIDE CONCENTRIC TERMINATION AT ROOF OR WALL; REFER TO FLOOR PLAN. VENT SIZE, MATERIALS AND TERMINATION SHALL BE PER MANUFACTURER'S REQUIREMENTS.
3. MOUNT OUTDOOR CONDENSING UNIT ON CONCRETE HOUSEKEEPING PAD. PAD SHALL BE A MINIMUM 4" THICK AND SHALL EXTEND 6" BEYOND UNIT ON ALL SIDES.
4. ANTI-SHORT CYCLE TIMER.
5. INDOOR FAN DELAY KIT.
6. DISCONNECT SWITCH PROVIDED BY ELECTRICAL SUBCONTRACTOR AT BOTH THE INDOOR AND OUTDOOR UNIT. REFER TO THE ELECTRICAL DOCUMENTS.
7. DISPOSABLE FILTER

ELECTRIC WALL HEATER

MARK	CFM	WATTS	HEAT (BTU/H)	BASIS OF DESIGN	REMARKS					
					1	2	3	4	5	6
EWH-A	100	3000	10235	QMARK AWH	X	X	X	X	X	X

REMARKS:

1. INTEGRAL THERMOSTAT TO MAINTAIN MINIMUM 45°F (ADJUSTABLE).
2. COORDINATE ELECTRICAL CHARACTERISTICS WITH ELECTRICAL CONTRACTOR.
3. FAN DELAY SWITCH.
4. THERMAL CUTOUT.
5. FACTORY DISCONNECT SWITCH.
6. SURFACE MOUNTING KIT.

DUCTLESS SPLIT DIRECT EXPANSION (DX) EQUIPMENT

INDOOR UNIT						OUTDOOR UNIT				COMBINED CAPACITIES	
MARK	SERVES	TYPE	MODEL/SERIES	NOMINAL TONS	CFM	MARK	MIN. SEER	MIN. HSPF	MODEL/SERIES	COOLING TOTAL (MBH)	HEATING @ 47°F (MBH)
MFCU-1	ELEVATOR EQUIPMENT	WALL-MOUNTED, HEAT PUMP	PKA-A24KA4	2.00	635/705/775	MHP-1	17.0	10.8	PUZ-A24NHA4	24.0	26.0
MFCU-2	ELECTRICAL ROOM	WALL-MOUNTED, HEAT PUMP	PKA-A24KA4	2.00	635/705/775	MHP-2	17.0	10.8	PUZ-A24NHA4	24.0	26.0
MFCU-3	SPRINKLER ROOM	WALL-MOUNTED, HEAT PUMP	PKA-A24KA4	2.00	635/705/775	MHP-3	17.0	10.8	PUZ-A24NHA4	24.0	26.0

NOTES (APPLY TO ALL):

A. BASIS OF DESIGN: MITSUBISHI. EQUAL PRODUCTS: DAIKIN, LENNOX, SAMSUNG, LG, SANYO, CARRIER, JCI/YORK.

B. SINGLE POWER CONNECTION AT OUTDOOR UNIT. DISCONNECT SWITCHES PROVIDED AT THE INDOOR AND OUTDOOR UNITS BY ELECTRICAL SUBCONTRACTOR. REFER TO THE ELECTRICAL DOCUMENTS.

C. R-410A REFRIGERANT.

D. FACTORY CONDENSATE PUMP OR CONDENSATE LIFT MECHANISM.

E. WALL MOUNTED WIRED REMOTE CONTROLLER.

F. INVERTER DRIVEN COMPRESSOR.

G. MOUNT OUTDOOR UNIT ON CONCRETE HOUSEKEEPING PAD. PAD SHALL BE A MINIMUM 4" THICK AND SHALL EXTEND 6" BEYOND UNIT ON ALL SIDES.

H. REFRIGERANT LINE SET TOTAL EQUIVALENT LENGTH SHALL NOT EXCEED 100 FEET. SHOULD AN ALTERNATE MANUFACTURER BE USED, CONTRACTOR SHALL COMPLY WITH ALTERNATE MANUCAFTURER LINE SET LIMITATIONS.

LOUVERS

SYMBOL	MODEL/ SERIES	SERVES	SIZE WxH (IN)	MIN FREE AREA (SQ FT)	CFM	MAX PRESS. DROP (IN WC)	OPERATOR	INTERLOCK	FRAME	REMARKS					
										1	2	3	4	5	6
WL-A	ESD-635 X	STORAGE OUTSIDE AIR	12 X 18	0.4	185	0.05	N/A	N/A	ALUMINUM	X	X	X			

NOTES (APPLY TO ALL):

A. FINAL COLOR SELECTION SHALL BE MADE BY ARCHITECT AT TIME OF SHOP DRAWING APPROVAL. PROVIDE COLOR/FINISH CHARTS AS PART OF SUBMITTAL.

B. DESIGN IS BASED ON PRODUCTS BY GREENHECK. ACCEPTABLE ALTERNATES SHALL BE BY UNITED ENERTECH, ARROW, RUSKIN.

REMARKS (APPLY AS SCHEDULED):

1. BIRD SCREEN
2. BAKED ON ENAMEL FINISH.
3. PRODUCT SHALL INCLUDE FLORIDA PRODUCT APPROVAL NUMBER AND SHALL BE LISTED FOR USE IN FLORIDA'S HIGH-VELOCITY HURRICANE ZONE.

DEHUMIDIFIER SCHEDULE

MARK	SERVES	REFRIGERANT	MINIMUM PERFORMANCE		BLOWER		BASIS OF DESIGN MODEL	REMARKS				
			WATER REMOVAL (PINTS / DAY)	EFFICIENCY (PINTS / KWH)	CFM	ESP		1	2	3	4	5
DH-1	STORAGE	R-410A	70.0	5.0	140	0.2	ULTRA-AIRE 70H	X	X	X	X	X

NOTES (APPLY TO ALL):

A. SEE ELECTRICAL PLANS FOR POWER CHARACTERISTICS.

B. DESIGN IS BASED ON PRODUCTS BY ULTRA-AIRE. ACCEPTABLE ALTERNATES SHALL BE BY APRILAIRE, LENNOX, HONEYWELL.

C. MINIMUM PERFORMANCE SCHEDULED IS BASED ON 80ºF DB , 60% RELATIVE HUMIDITY ENTERING AIR CONDITIONS.

REMARKS (APPLY AS SCHEDULED):

1. MERV-11 FILTER.
2. POWER CORD WITH GROUND.
3. DIGITAL CONTROL.
4. REMOTE HUMIDITY SENSOR.
5. CONDENSATE PUMP KIT.

DIFFUSER, GRILLE, AND REGISTER SCHEDULE

CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	NOISE CRITERIA @ MAX CFM	MODEL
SS0804	DOUBLE DEFLECTION SUPPLY	10x6	8x4	25	TITUS 300FS
SS1206	DOUBLE DEFLECTION SUPPLY	14x8	12x6	25	TITUS 300FS
SSD3608	DRUM LOUVER	38x10	36x8	0	TITUS DL

A. AIR DEVICE (I.E. DIFFUSERS, REGISTERS AND GRILLES) COLOR SELECTION SHALL BE MADE BY ARCHITECT. CONTRACTOR SHALL SUBMIT COLOR/FINISH CHARTS FOR ARCHITECTURAL REVIEW AND SELECTION.

B. THE CONTRACTOR SHALL COORDINATE AIR DEVICE FRAME AND/OR SUSPENSION TYPE WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.

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REVISIONS:

PROJECT NUMBER
201941

DATE
9-28-22

SHEET NUMBER
M0.3

GENERAL NOTES

A. EACH SUPPLY DIFFUSER/REGISTER RUNOUT SHALL BE PROVIDED WITH A VOLUME DAMPER. REFER TO THE DIFFUSER TAKE-OFF DETAIL FOR ADDITIONAL INFORMATION.

B. DRAWINGS ARE DIAGRAMMATIC ONLY; FINAL ROUTING OF DUCTWORK AND EQUIPMENT LOCATIONS SHALL BE DETERMINED IN THE FIELD. ADDITIONAL OFFSETS, ELBOWS, ETC. SHALL BE PROVIDED AND INSTALLED WITHOUT ADDITIONAL COST TO THE OWNER.

C. GENERAL CONTRACTOR SHALL COORDINATE AND FIELD-VERIFY ALL PROPOSED LOCATIONS OF SPRINKLER PIPING, LIGHT FIXTURES, AND OTHER EQUIPMENT PRIOR TO HVAC INSTALLATION. ALL CONFLICTS SHALL BE REPORTED TO THE OWNER AND DESIGN TEAM IMMEDIATELY UPON DISCOVERY FOR INSTRUCTION PRIOR TO PROCEEDING WITH ASSOCIATED WORK.

D. STORAGE FAN COIL UNITS SHALL BE HELD AS HIGH AS POSSIBLE. BOTTOM OF DUCT SHALL BE MINIMUM 8'-4" ABOVE FINISHED FLOOR.

E. CONDENSATE PIPING IS NOT PERMITTED BELOW 8'-4" ABOVE FINISHED FLOOR. CONTRACTOR SHALL PROVIDE CONDENSATE PUMPS WHERE NEEDED.

F. COORDINATE EXACT LOUVER LOCATIONS WITH ARCHITECTURAL ELEVATIONS.

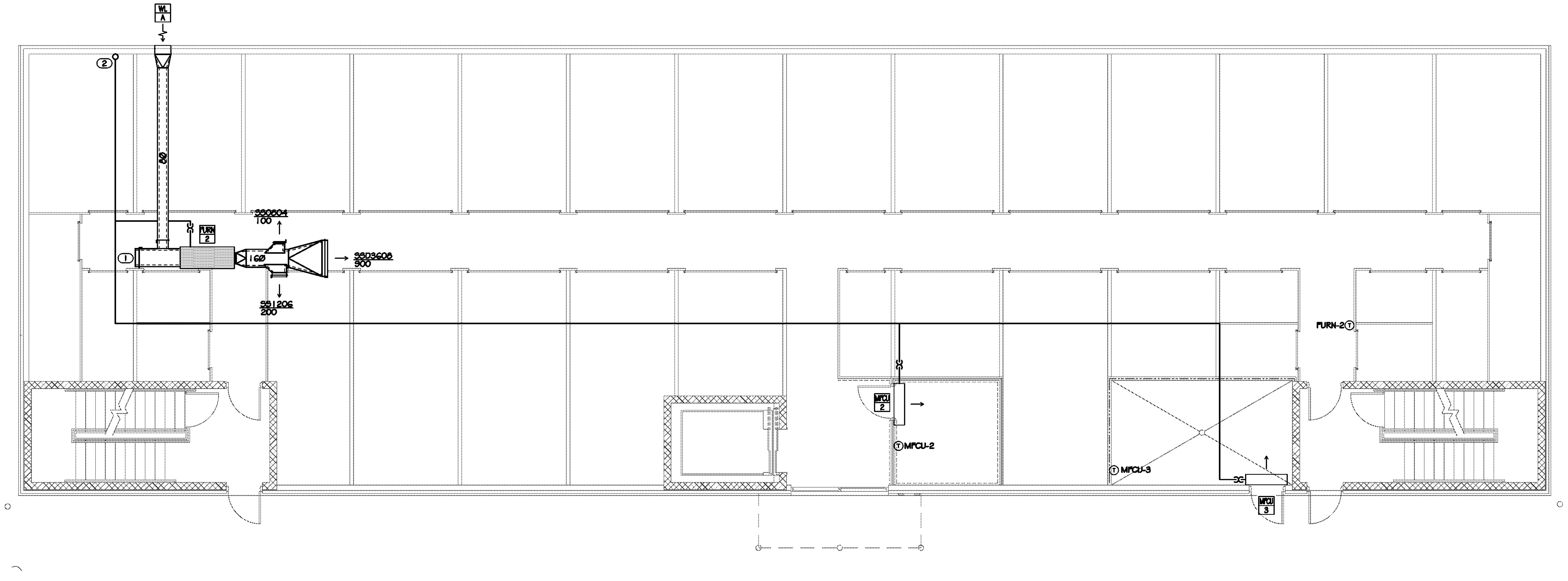
G. ALL EXHAUST TERMINATIONS SHALL BE LOCATED A MINIMUM OF 10'-0" FROM MECHANICAL AIR INTAKES AND A MINIMUM OF 3'-0" FROM OPERABLE BUILDING OPENINGS.

H. FURNACE AND CONDENSING UNIT REFRIGERANT LINE SET ROUTING AND SIZING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S LONG LINE SET GUIDELINES. CONTRACTOR SHALL ADVISE THE DESIGN TEAM SHOULD UNIT LOCATIONS BE OUTSIDE OF PERMITTED LINE SET LIMITATIONS.

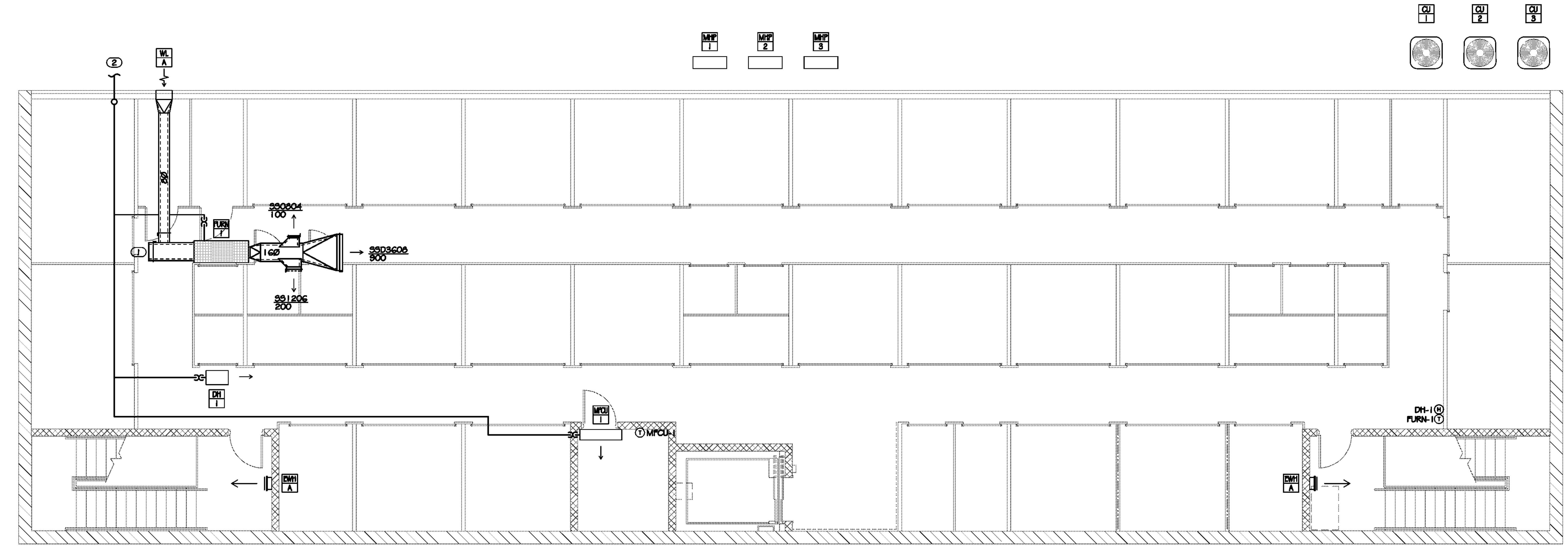
KEYNOTES

① LINED RETURN AIR PLENUM, FULL SIZE OF UNIT CONNECTION. MINIMUM 4'-0" IN LENGTH. COVER OPEN END OF PLENUM WITH WIRE MESH SCREEN.

② CONDENSATE RISER. REFER TO DETAILS.



2
M1.1
FIRST FLOOR PLAN
SCALE: 3/16" = 1'-0"



1
M1.1
LOWER LEVEL PLAN
SCALE: 3/16" = 1'-0"

BRIAN M. ARMENTA
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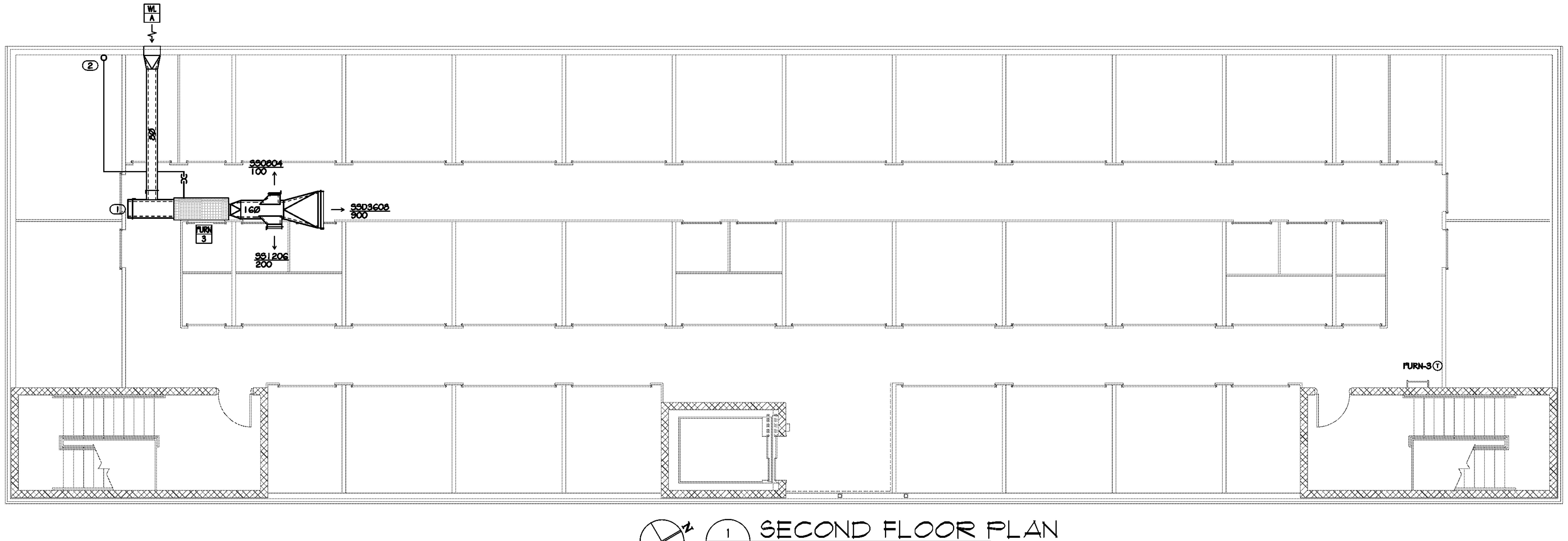

1
M1.2
SECOND FLOOR PLAN
SCALE: 3/16" = 1'-0"

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LEGEND

—— - —— - ——	COLD WATER PIPE
—— - - —— - - ——	HOT WATER PIPE
—— - - - —— - - - ——	HOT WATER RETURN PIPE
—— S ——	SANITARY PIPE
- - - - - - - - -	VENT PIPE
—— G ——	NATURAL GAS PIPE
—— GW ——	GREASE WASTE PIPE
—— F ——	FIRE SPRINKLER PIPE
—— ST ——	STORM PIPE
—— EST ——	EMERGENCY STORM PIPE
—— IW ——	INDIRECT WASTE PIPE
—— PD ——	PUMPED DISCHARGE
—— - —— FW —— - ——	FILTERED WATER PIPE
○—— ⊖——	PIPE UP / PIPE DOWN
	PIPE TEE FROM TOP / TEE FROM BOTTOM
	PIPE CAP / PIPE CONTINUATION
——►——	DIRECTIONAL FLOW ARROW
	BALL VALVE / CHECK VALVE
	MIXING VALVE / PRESSURE REDUCING VALVE
	BACKFLOW PREVENTER ASSEMBLY
	WALL HYDRANT / HOSE BIBB
	FLOOR DRAIN / FLOOR SINK
——■——	WATER HAMMER ARRESTOR
	GAS COCK / GAS SOLENOID VALVE
	P-TRAP
	HUB DRAIN
	TRAP PRIMER
⊙	FLOOR CLEANOUT / GRADE CLEANOUT
⊗	VENT THROUGH ROOF
	PIPE CLEANOUT / WALL CLEANOUT

ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE	IMB	ICE MACHINE BOX
A/C	ABOVE CEILING	IE	INVERT ELEVATION
A/F	ABOVE FLOOR	IWH	INSTANTANEOUS WATER HEATER
AFF, AFG	ABOVE FINISHED FLOOR/GRADE	L, LAV	LAVATORY
B/F, B/G	BELOW FLOOR/GRADE	MBH	1000 BTU/HR
BFP	BACKFLOW PREVENTER	MS	MOP SINK
CD	CONDENSATE DRAIN	MV	MIXING VALVE
CONT	CONTINUATION	O/H	OVERHEAD
CW	COLD WATER	G	NATURAL GAS
DN	DOWN	PD	PUMPED DISCHARGE
ET	EXPANSION TANK	PRV	PRESSURE REDUCING VALVE
EWC	ELECTRIC WATER COOLER	RP	RECIRCULATION PUMP
ex.	EXISTING	S, SAN	SANITARY
FCO	FLOOR CLEANOUT	SH	SHOWER
FD	FLOOR DRAIN	SK	SINK
FHB	FREEZEPROOF HOSE BIBB	TP	TRAP PRIMER
FS	FLOOR SINK	TYP	TYPICAL
FRH	FREEZEPROOF ROOF HYDRANT	UR	URINAL
FWH	FREEZEPROOF WALL HYDRANT	V	VENT
GCO	GRADE CLEANOUT	VTR	VENT THROUGH ROOF
GI	GREASE INTERCEPTOR	WC	WATER CLOSET
HB	HOSE BIBB	W.C.	WATER COLUMN
HD	HUB DRAIN	WCO	WALL CLEANOUT
HW	HOT WATER	WHA	WATER HAMMER ARRESTER
HWR	HOT WATER RETURN	WMB	WASHING MACHINE BOX

SPECIFICATIONS

GENERAL

ALL WORK SHALL COMPLY WITH ALL STATE, CITY AND LOCAL CODES, RULES AND REGULATIONS. CONTRACTOR SHALL SECURE ALL REQUIRED PERMITS AND INSPECTIONS ASSOCIATED WITH THIS WORK, AND SHALL PAY ALL COSTS AND FEES INVOLVED.

ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE BEST RECOGNIZED PRACTICE IN THE FIELD CONCERNED. MANUFACTURED ITEMS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED DIRECTIONS, SPECIFICATIONS AND RECOMMENDATIONS.

CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS AND SHALL BE FAMILIAR WITH THE SCOPE AND REQUIREMENTS OF THIS PROJECT. ANY DISCREPANCIES OR LACK OF CLARITY IN THE DOCUMENTS SHALL BE IDENTIFIED TO THE ARCHITECT OR ENGINEER PRIOR TO THE SUBMISSION OF PRICING BIDS. WITH A SUBMITTED BID, CONTRACTOR IS ACCEPTING THESE DOCUMENTS AS SUFFICIENT DEFINITION OF THE SCOPE OF WORK, AND ANY ADDITIONAL COSTS BASED ON UNCLARITY OF CONTRACT DOCUMENTS WILL NOT BE CONSIDERED.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS FOR EQUIPMENT INSTALLATION PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS. ALL EQUIPMENT AND DEVICES SHALL BE INSTALLED SUCH THAT THEY ARE EASILY ACCESSIBLE AND SERVICABLE. THIS EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO: PLUMBING FIXTURES, WATER HEATERS, EXPANSION TANKS, PUMPS, BACKFLOW PREVENTERS, VALVES, MIXING VALVES, THERMOMETERS, GAUGES, TRAP PRIMERS AND CLEANOUTS.

THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE FULL SET OF CONSTRUCTION DOCUMENTS, INCLUDING ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL & ELECTRICAL DRAWINGS (AS APPLICABLE) TO ENSURE ALL PLUMBING WORK IS COORDINATED WITH PHYSICAL CONDITIONS AND ALL OTHER TRADES.

THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE ARCHITECTURAL DRAWINGS TO ENSURE THERE IS ADEQUATE WALL THICKNESS SUCH THAT ALL PIPING, FIXTURE CARRIERS, WALL CLEANOUTS, WALL BOXES, WALL HYDRANTS AND ACCESS PANELS WILL FIT IN THE WALL SPACE. CONTRACTOR SHALL NOTIFY THE ARCHITECT IF WALL SPACE IS INADEQUATE PRIOR TO COMMENCING WORK.

THE CONTRACTOR SHALL OBTAIN EXACT WALL, FIXTURE, AND LAYOUT DIMENSIONS FROM THE ARCHITECTURAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ROUGH-IN AND INSTALLATION DRAWINGS FOR ALL PLUMBING FIXTURES, KITCHEN EQUIPMENT AND OWNER FURNISHED EQUIPMENT (AS APPLICABLE), AND SHALL COORDINATE THE PLUMBING INSTALLATION PRIOR TO COMMENCING THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL NECESSARY VALVES, CONNECTIONS, TRAPS, ACCESS PANELS, UNIONS, ESCUTCHEONS, WATER HAMMER ARRESTORS, VACUUM BREAKERS, RELIEF VALVES, PIPE INSULATION, AND EQUIPMENT SPECIALTY DEVICES AS REQUIRED TO FACILITATE COMPLETE AND OPERATIONAL CONDITIONS WHICH ARE IN STRICT COMPLIANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

THESE DRAWINGS ARE DIAGRAMMATIC AND DO NOT REFLECT ALL POSSIBLE PHYSICAL CONDITIONS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND EXACT LOCATIONS OF EQUIPMENT AND FIXTURES. PROVIDE NECESSARY PIPING OFFSETS TO COORDINATE WITH THE BUILDING STRUCTURE, WORK OF OTHER TRADES, AND CONNECTION TO SITE UTILITIES (AS APPLICABLE).

COORDINATE THE ELECTRICAL REQUIREMENTS AND CHARACTERISTICS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ISSUING SUBMITTALS OR PURCHASING EQUIPMENT.

UNLESS NOTED OTHERWISE, ALL DRAINAGE PIPING SHALL BE SLOPED AT A MINIMUM OF 1/8" PER FOOT. 2" SANITARY PIPING AND ALL GREASE WASTE PIPING SHALL BE SLOPED AT 1/4" PER FOOT.

DOMESTIC WATER PIPING SHALL BE PURGED OF DELETERIOUS MATTER AND DISINFECTED PRIOR TO UTILIZATION. PIPING TO BE FLUSHED AND STERILIZED IN ACCORDANCE WITH IPC 610.1 AND ALL APPLICABLE LOCAL AND STATE HEALTH DEPARTMENT STANDARDS.

ALL DOMESTIC WATER PIPING SUBJECT TO FREEZING SHALL BE INSULATED AND PROVIDED WITH HEAT TRACE. CONDENSATE PIPING SUBJECT TO FREEZING WITHIN WALK-IN FREEZERS SHALL BE INSULATED AND PROVIDED WITH HEAT TRACE. PIPING INSTALLED IN EXTERIOR WALLS SHALL BE WRAPPED IN PIPE INSULATION AND BE LOCATED ON THE INTERIOR SIDE OF THE BUILDING INSULATION.

IN CONCEALED LOCATIONS WHERE PIPING, OTHER THAN CAST-IRON OR GALVANIZED STEEL, IS INSTALLED THROUGH HOLES OR NOTCHES IN STUDS, JOISTS, OR SIMILAR MEMBERS LESS THAN 1 1/2" FROM THE NEAREST EDGE OF MEMBER, PIPE SHALL BE PROTECTED BY STEEL SHIELD PLATES IN ACCORDANCE WITH IPC 305.6.

PIPE PENETRATIONS THROUGH FIRE RATED WALLS OR FLOORS SHALL HAVE EQUIVALENTLY RATED SLEEVES AND SHALL BE SEALED AND FIRE CAULKED WITH A U.L. LISTED FIRE STOPPING SYSTEM INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LISTED DETAILS AND SPECIFICATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE REQUIREMENTS OF THE COUNTY HEALTH DEPARTMENT AND OTHER LOCAL AUTHORITIES HAVING JURISDICTION REGARDING CROSS CONNECTION CONTROL OR OBTAINING A FOOD SERVICE PERMIT (AS APPLICABLE). REPORT ANY OBSERVED DISCREPANCIES TO THE ARCHITECT OR ENGINEER PRIOR TO COMMENCING WITH THE WORK.

CONTRACTOR SHALL CONFIRM PLUMBING FIXTURE FINISHES WITH THE ARCHITECTURAL SCHEDULES & DETAILS (AS APPLICABLE).

SUBMITTALS

FURNISH SHOP DRAWINGS FOR MANUFACTURED PRODUCTS. ALL ITEMS SHALL BE CLEARLY MARKED TO MATCH EQUIPMENT MARKS ON THE PLUMBING DRAWINGS. ALL OPTIONS MUST BE CLEARLY MARKED ON THE SUBMITTAL SHEET. A MODEL NUMBER LISTING ON A COVER SHEET IS NOT AN ACCEPTABLE SUBSTITUTE FOR MARKING THE ACTUAL SUBMITTAL SHEET. ELECTRICAL DATA FOR POWERED EQUIPMENT MUST BE INDICATED ON THE SUBMITTAL SHEET FOR THAT ITEM.

ALL ITEMS MUST BE SUBMITTED IN ONE PACKAGE AT THE SAME TIME, IN ELECTRONIC PDF FORMAT. SEPARATE SUBMITTALS FOR FIXTURES AND EQUIPMENT IS NOT ACCEPTABLE.

SUBMITTAL REVIEW IS CONSIDERED A GENERAL ACCEPTANCE OF THE BASIC APPLICABILITY OF THE EQUIPMENT. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND/OR ALTERNATE ARRANGEMENT OF THE EQUIPMENT WITHIN A GIVEN SPACE. WHEN SUBSTITUTED EQUIPMENT IS INSTALLED, CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION OR ADDITIONAL COST BROUGHT ON BY THE USE OF THIS EQUIPMENT.

HANGERS AND SUPPORTS

HANGERS SHALL BE COMPLETE WITH RODS AND SUPPORTS PROPORTIONED TO THE SIZE OF PIPE TO BE SUPPORTED, IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

SIZE HANGERS FOR INSULATED PIPING TO BEAR ON OUTSIDE OF INSULATION. PROVIDE INSULATION PROTECTORS AT HANGERS BEARING ON THE OUTSIDE OF INSULATION. PROVIDE A RIGID INSERT OR RIGID INSULATION AT EACH INSULATION PROTECTOR.

WHERE SEVERAL PIPES 2 1/2" AND SMALLER RUN PARALLEL AND IN THE SAME PLANE, THEY MAY BE SUPPORTED ON GANG OR MULTIPLE HANGERS. LARGER PIPING SHALL BE INDEPENDENTLY HUNG, RUN PARALLEL AND BE EQUALLY SPACED.

PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH IPC SECTION 308, AND SPACING OF HANGERS SHALL NOT EXCEED THE LIMITS SET FORTH IN TABLE 308.5. PIPES SHALL BE SUPPORTED WITHIN 1'-0" OF EACH ELBOW.

VERTICAL PIPE SUBJECT TO MOVEMENT SHALL BE SUPPORTED FROM THE WALL BY MEANS OF A PIPE CLAMP.

SUPPORT DOMESTIC WATER PIPING IN SPACES BEHIND PLUMBING FIXTURES BY BRACKETS AND U-BOLTS SECURED TO WASTE AND VENT STACKS. SIZE U-BOLTS TO BEAR ON THE PIPING.

AFTER HANGER RODS ARE INSTALLED IN FINISHED CONCRETE CEILING, FILL THE REMAINING OPENING WITH CEMENT SO THAT NO HOLE SHOWS AT THE CEILING.

WHERE COPPER PIPING IS USED, NONFERROUS METAL SUPPORT(S) OR PROPER ISOLATION BETWEEN DISSIMILAR MATERIALS SHALL BE PROVIDED.

PIPE HANGERS AND SUPPORTS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH RECOMMENDATIONS SET FORTH IN MANUFACTURER'S STANDARDIZATION SOCIETY STANDARD PRACTICES NO. SP-69 AND SP-58.

SLEEVES

SLEEVES SHALL BE PROVIDED WHERE PIPES PASS THROUGH WALLS, FLOORS AND ROOFS.
PROVIDE STANDARD WEIGHT STEEL SLEEVES IN CONCRETE AND MASONRY CONSTRUCTION, PROVIDE 26GA GALVANIZED SHEET METAL SLEEVES IN INTERIOR DRYWALL CONSTRUCTION. SLEEVES SHALL BE THE FULL THICKNESS OF WALLS AND SHALL ALLOW FOR THE FULL THICKNESS OF PIPE INSULATION, WHERE APPLICABLE.

SLEEVES MAY BE OMITTED WHEN OPENINGS ARE CORE DRILLED FOR CONCEALED VERTICAL AND HORIZONTAL PIPING. SLEEVES ARE NOT REQUIRED AT INDIVIDUAL PLUMBING FIXTURES OR IN CONCRETE FLOOR SLABS ON GRADE, UNLESS OTHERWISE NOTED.

SLEEVES FOR ALL PIPING PENETRATING FIRE RATED WALLS AND FLOORS SHALL BE PROVIDED WITH 3M PIPE BARRIER NO. CP-25 FIRE PROOFING CAULKING, OR EQUAL, IN ANNULAR SPACE BETWEEN SLEEVE AND PIPING. CONTRACTOR SHALL VERIFY THE RATING OF THE WALL AND CONFIRM THE PENETRATION PROTECTION PROVIDED MEETS THAT RATING.

PENETRATIONS THROUGH OUTSIDE WALLS SHALL BE WATERTIGHT. CAULK BETWEEN PLUMBING PIPE AND SLEEVE. PACK WITH FIBERGLASS AND CAULK, 1" DEEP AT EACH FACE WITH NON-HARDENING SEALANT BETWEEN PIPE AND SLEEVE.

SPECIFICATIONS

WASTE AND VENT PIPING SYSTEMS AND ACCESSORIES

SANITARY PIPING SHALL BE PVC SCHEDULE 40 SOLID WALL PIPE AND DWV FITTING SYSTEM.

PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 12454 PER ASTM D-1784 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM D-1785 AND ASTM D-2665. INJECTION MOLDED FITTINGS SHALL CONFORM TO ASTM D-2665. FABRICATED FITTINGS SHALL CONFORM TO ASTM F-1866. SOLVENT CEMENTS SHALL CONFORM TO ASTM D-2564. PRIMER SHALL CONFORM TO ASTM F-656. BURIED PIPE SHALL CONFORM TO ASTM D-2321.

WASTE AND VENT PIPING SHALL BE TESTED IN ACCORDANCE WITH THE GOVERNING CODES. AT A MINIMUM, WASTE PIPING SHALL BE TESTED WITH AT LEAST 10 FOOT OF WATER HEAD PRESSURE APPLIED.

ALL VENTS THROUGH ROOF SHALL BE LOCATED AT LEAST 10'-0" AWAY FROM ANY AIR INTAKE, EVAPORATIVE COOLER, OR ANY OTHER DEVICE THAT WOULD DRAW AIR FROM THE VENT. FLASH AROUND ALL PIPES PENETRATING THROUGH ROOF WITH STANDARD MANUFACTURED FLASHINGS. FLASHING SHALL BE SHEET METAL WITH RUBBER GASKETS AND SHALL EXTEND INTO ROOFING AND UP PIPE DISTANCES IN ACCORDANCE WITH THE LOCAL CODE.

NO DOUBLE COMBINATION FITTINGS MAY BE UTILIZED IN THE HORIZONTAL.

WHERE TWO HORIZONTAL PIPES (BACK-TO-BACK WATER CLOSETS OR TWO SANITARY BRANCHES) COMBINE IN THE VERTICAL, A DOUBLE COMBINATION WYE EIGHTH BEND FITTING SHALL BE INSTALLED. DOUBLE SANITARY TEE OR SANITARY CROSS IS NOT ACCEPTABLE.

WHERE DRAWINGS REQUIRE CONNECTION TO EXISTING SANITARY SEWER PIPING IN BUILDING, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD DETERMINE EXACT LOCATION, DEPTH AND DIRECTION OF FLOW PRIOR TO COMMENCING WORK. CONTRACTOR SHALL ALERT ARCHITECT/ENGINEER IF THERE IS A POTENTIAL ISSUE MAINTAINING PROPER SLOPE IN CONNECTING TO EXISTING, OR IF THERE IS A MORE DIRECT CONNECTION POSSIBLE. CONTRACTOR SHALL CONFIRM THAT ANY EXISTING PIPING TO BE REUSED IS CLEAN, FREE OF DEFECTS, ADEQUATELY SLOPED (1/8"/FT MINIMUM) AND THAT THERE ARE NO DIPS THAT COULD HOLD WATER. PROVIDE CAMERA SCOPING TO DOCUMENT THIS INFORMATION. CONTRACTOR SHALL ALERT ARCHITECT/ENGINEER OF ANY DEFICIENCIES.

DOMESTIC WATER SYSTEMS AND ACCESSORIES

WATER PIPING ABOVE SLAB: TYPE 'L' HARD DRAWN COPPER TUBING, ASTM B88, WROUGHT SOLDER JOINTS, ANSI B16.22.

WATER PIPING BELOW SLAB: TYPE 'K SOFT DRAWN COPPER TUBING, WITH NO JOINTS BELOW SLAB, ASTM B88.

ALL DOMESTIC HOT WATER PIPING SHALL HAVE A MINIMUM PRESSURE RATING OF 100PSI AT 180 F.

DOMESTIC WATER PIPING SHALL BE TESTED IN ACCORDANCE WITH ALL GOVERNING CODES. PIPING SHALL BE PURGED OF DELETERIOUS MATTER AND DISINFECTED PRIOR TO UTILIZATION. PIPING TO BE FLUSHED AND STERILIZED IN ACCORDANCE WITH IPC 610.1 AND ALL APPLICABLE LOCAL AND STATE HEALTH DEPARTMENT STANDARDS.

BALL VALVES SHALL BE TWO-PIECE BRONZE BODY, LARGE PORT WITH SOLID, SMOOTH BORE CHROME PLATED BRASS BALL. SEATS SHALL BE REINFORCED TFE WITH TEFLON PACKING RING AND THREADED ADJUSTABLE PACKING NUT. PROVIDE STEM EXTENSION AS NEEDED TO PROVIDE HANDLE ON OUTSIDE OF PIPE INSULATION. VALVES SHALL BE APOLLO 70 OR EQUAL.

BACKFLOW PREVENTERS SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS FOR EASE OF TESTING AND SERVICING. FOR BACKFLOW PREVENTERS WITH VENT CONNECTIONS, ROUTE VENT LINE TO NEAREST DRAIN AND DISCHARGE WITH AIR GAP. BACKFLOW PREVENTERS SHALL BE TESTED IN ACCORDANCE WITH IPC 312.10.2. CONTRACTOR SHALL PROVIDE CERTIFICATIONS THAT STATE DEVICES HAVE BEEN TESTED AND APPROVED.

THERMOMETERS SHALL BE 9" ADJUSTABLE ANGLE, 30 180 F RANGE (TRERICE BX9 OR EQUAL). PRESSURE GAUGES SHALL BE 4 1/2" DIAL SIZE, 0-160PSI (TRERICE 600CB OR EQUAL).

CONTRACTOR SHALL FIELD VERIFY INCOMING DOMESTIC WATER PRESSURE. WHERE PRESSURE EXCEEDS 80PSI, PROVIDE PRESSURE REGULATING VALVE (WATTS LF223) AND UPSTREAM STRAINER (WATTS LSF777).

CONTRACTOR SHALL FIELD COORDINATE LOCATION OF ACCESSIBLE ISOLATION VALVES ON DOMESTIC HOT & COLD WATER SUPPLIES TO FIXTURES OR GROUPS OF FIXTURES SUCH THAT THEY MAY BE SHUT OFF FOR SERVICING. SERVICE AND HOSE BIBB VALVES SHALL BE IDENTIFIED. ALL OTHER VALVES INSTALLED IN LOCATIONS THAT ARE NOT ADJACENT TO THE FIXTURE(S) SHALL BE IDENTIFIED, INDICATING THE FIXTURE(S) SERVED.

RETURN AIR PLENUMS

ALL EXPOSED MATERIALS WITHIN RETURN AIR PLENUMS SHALL BE NONCOMBUSTIBLE OR HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50, AS DETERMINED IN ACCORDANCE WITH ASTM E84/UL723. COPPER AND CAST IRON PIPING IS APPROVED. CPVC WATER PIPING SHALL COMPLY WITH THE ABOVE CRITERIA (SPEARS 'EVERTUFF' OR EQUAL). THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL RETURN AIR PLENUM LOCATIONS WITH THE MECHANICAL CONTRACTOR.

INSULATION

INSULATE ALL DOMESTIC HOT WATER AND HOT WATER RECIRCULATION PIPING IN ACCORDANCE WITH IECC TABLE C403.2.10. PIPE UP TO 1 1/4": 1" THICK INSULATION. PIPE 1 1/2" OR LARGER: 1 1/2" THICK INSULATION

INSULATE ALL HORIZONTAL COLD WATER PIPING LOCATED ABOVE CEILING, VERTICAL PIPING LOCATED IN AN EXTERIOR WALL, EXPOSED PIPING (I.E. MECH ROOMS). PIPE UP TO 1": 1/2" THICK. PIPING 1 1/4" AND OVER: 1" THICK INSULATION.

ALL JOINTS SHALL BE SEALED WITH MATCHING VAPOR BARRIER TAPE.

INSULATION SHALL HAVE A K FACTOR (AVERAGE THERMAL CONDUCTIVITY) NOT TO EXCEED 0.27 BTU IN/HR x SQ FT x F.

PROTECTION OF PIPING

PIPING PASSING UNDER FOOTINGS OR THROUGH FOUNDATION WALLS SHALL BE PROVIDED WITH A SLEEVE TWICE THE DIAMETER OF THE PIPE. OPEN ENDS OF SLEEVES SHALL BE SEALED. PIPING PASSING THROUGH CONCRETE OR CINDER WALLS AND FLOORS OR OTHER CORROSIVE MATERIAL SHALL BE PROTECTED IN ACCORDANCE WITH IPC 305.1. ALL PIPING INSTALLED THROUGH HOLES OR NOTCHES IN STUDS, JOISTS, RAFTERS OR SIMILAR MEMBERS SHALL BE PROTECTED BY STEEL SHIELD PLATES IN ACCORDANCE WITH IPC 305.6. VERTICAL STACKS IN WOOD CONSTRUCTION SHALL BE PROTECTED FROM BUILDING SETTLING WITH COMPRESSION/EXPANSION FITTINGS AND PIPE CLAMPS INSTALLED PER MANUFACTURER'S RECOMMENDATIONS (FERNCO XJ SERIES OR EQUAL).

NATURAL GAS SYSTEMS AND ACCESSORIES

IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE LOCAL GAS UTILITY PROVIDER TO CONFIRM THE AVAILABILITY OF THE INDICATED DESIGN DELIVERY PRESSURE PRIOR TO COMMENCING WORK.

ALL GAS PIPING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE INTERNATIONAL FUEL GAS CODE AND NFPA 54.

GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL (ASTM A53/A53M). FITTINGS SHALL BE ASME B16.3 MALLEABLE IRON OR ASTM A234/A234M WROUGHT STEEL WELDING TYPE. JOINTS SHALL BE THREADED OR WELDED TO ASME B31.1.

SHUTOFF VALVES SHALL BE PROVIDED AND LOCATED IN PLACES SO AS TO PROVIDE ACCESS FOR OPERATION AND SHALL BE INSTALLED SO AS TO BE PROTECTED FROM DAMAGE.

ALL GAS FIRED APPLIANCES ARE PROVIDED WITH A GAS PRESSURE OF 7"W.C. AT FINAL EQUIPMENT CONNECTION. IF 7"W.C. EXCEEDS EQUIPMENT'S SPECIFIC INLET PRESSURE REQUIREMENT, CONTRACTOR SHALL PROVIDE APPROPRIATE PRESSURE REGULATING VALVE.

GAS PIPING ON ROOF SURFACES SHALL BE ELEVATED NO LESS THAN 3 1/2" INCHES ABOVE ROOF SURFACE AND SHALL BE CLAMPED TO RUBBER CHANNEL SUPPORTS (MIFAB C10 SERIES OR EQUAL). PROVIDE SUPPORT AT EVERY ELBOW. THE MAXIMUM SPACING OF SUPPORTS SHALL BE: 1/2" PIPE: 5'-0", 3/4" TO 1 1/4" PIPING: 6'-0", 1 1/2" AND LARGER: 12'-0". VERTICAL PIPING SHALL BE SUPPORTED AT BASE, TOP AND AT 10' INTERVALS (MINIMUM).

ALL EXTERIOR GAS PIPING ON ROOF SHALL BE PRIMED AND PAINTED O.S.H.A. YELLOW. GAS PIPING RUNNING ON EXTERIOR WALLS SHALL BE PRIMED AND PAINTED TO MATCH BUILDING WALL.

EXPOSED GAS PIPING SHALL BE IDENTIFIED BY A YELLOW LABEL MARKED 'GAS' IN BLACK LETTERS. ALL PIPING GREATER THAN 7"W.C. SERVICE PRESSURE SHALL BE IDENTIFIED BY A YELLOW LABEL WITH BLACK LETTERS INDICATING THE PIPING SYSTEM PRESSURE. THE SYSTEM SHALL BE MARKED AT THE BEGINNING, ALL ENDS AND AT INTERVALS NOT EXCEEDING 5 FEET ALONG ITS EXPOSED LENGTH.

BALL VALVES: THREE PIECE BODY, FULL PORT, CHROME PLATED BALL, BLOWOUT PROOF STEM, TFE SEATS, UL LISTED FOR FLAMMABLE LIQUIDS, 600 PSI WOG, THREADED ENDS.

PRESSURE REGULATOR VALVE: SINGLE STAGE AND SUITABLE FOR NATURAL GAS, STEEL JACKET AND CORROSION RESISTANT COMPONENTS, THREADED FOR REGULATORS NPS 2 AND SMALLER. PROVIDE SHUTOFF VALVE IMMEDIATELY AHEAD OF REGULATOR, AND INSTALL TEST PORTS ON EITHER SIDE REGULATOR, WITH UPSTREAM TEST PORT DOWNSTREAM OF SHUTOFF VALVE. REGULATORS SHALL BE INSTALLED PER IFGC SECTION 410. FOR 2PSI INLET, PROVIDE MAXITROL '325-L' SERIES. PROVIDE VENT PROTECTOR FOR EXTERIOR APPLICATIONS. FOR INTERIOR APPLICATIONS, VENT SHALL BE PIPED TO THE EXTERIOR WITH TURNDOWN AND SCREEN PROTECTOR.

SHUTOFF VALVES SHALL BE PROVIDED IN ACCORDANCE WITH IFGC 409. INSTALL MANUAL GAS SHUTOFF VALVE FOR EACH GAS APPLIANCE AHEAD OF CORRUGATED STAINLESS STEEL TUBING OR COPPER CONNECTOR. SHUTOFF SHALL BE WITHIN 6' OF APPLIANCE.

INSTALL UNIONS IN PIPES NPS 2 AND SMALLER, ADJACENT TO EACH VALVE, AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT.

ALL NATURAL GAS PIPING INSTALLED BENEATH THE BUILDING SLAB SHALL BE ENCASED IN WROUGHT IRON CONDUIT. PIPING SHALL BE PROTECTED AND INSTALLED ACCORDING TO THE INTERNATIONAL FUEL GAS CODE SECTION 404.14.

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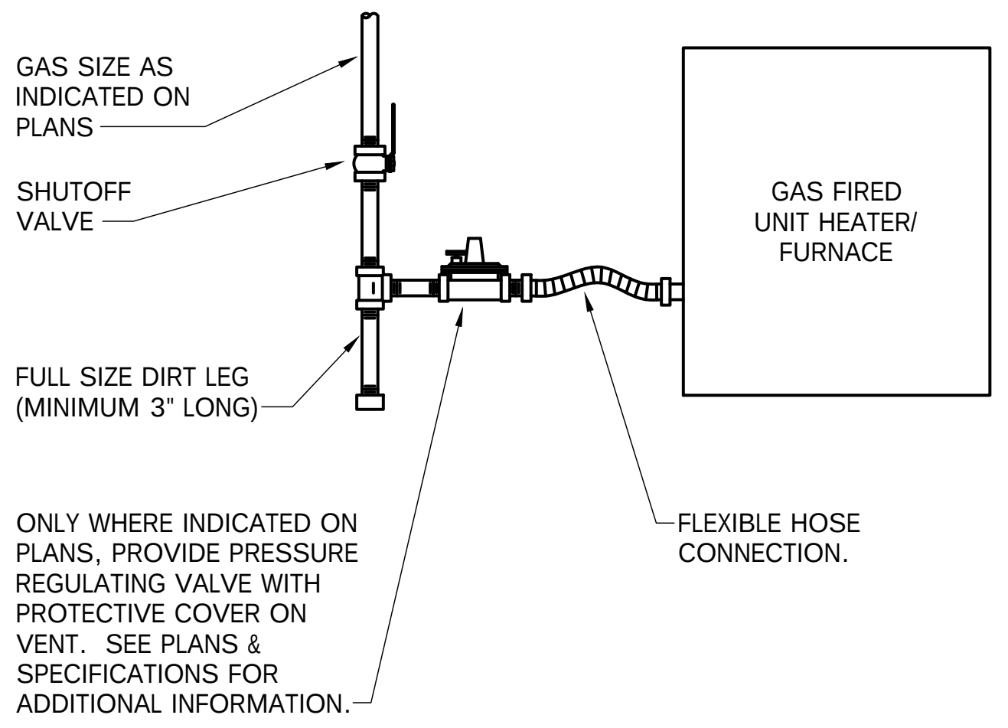
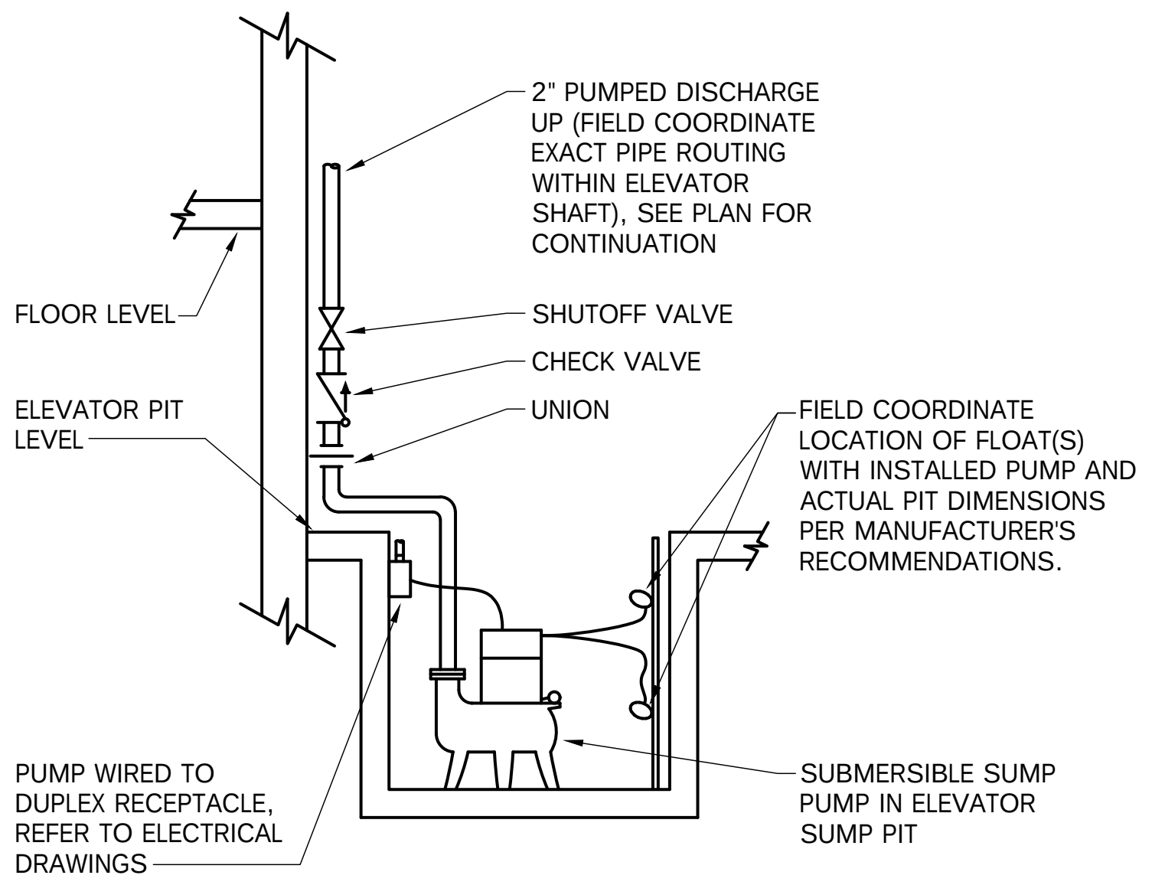
UNIT HEATER/FURNACE GAS CONNECTION

NO SCALE


GAS SIZE AS INDICATED ON PLANS
SHUTOFF VALVE
FULL SIZE DIRT LEG (MINIMUM 3" LONG)
ONLY WHERE INDICATED ON PLANS, PROVIDE PRESSURE REGULATING VALVE WITH PROTECTIVE COVER ON VENT. SEE PLANS & SPECIFICATIONS FOR ADDITIONAL INFORMATION.
GAS FIRED UNIT HEATER/ FURNACE
FLEXIBLE HOSE CONNECTION.

ELEVATOR SUMP PUMP

NO SCALE


2" PUMPED DISCHARGE UP (FIELD COORDINATE EXACT PIPE ROUTING WITHIN ELEVATOR SHAFT), SEE PLAN FOR CONTINUATION
FLOOR LEVEL
SHUTOFF VALVE
CHECK VALVE
UNION
ELEVATOR PIT LEVEL
FIELD COORDINATE LOCATION OF FLOAT(S) WITH INSTALLED PUMP AND ACTUAL PIT DIMENSIONS PER MANUFACTURER'S RECOMMENDATIONS.
PUMP WIRED TO DUPLEX RECEPTACLE, REFER TO ELECTRICAL DRAWINGS
SUBMERSIBLE SUMP PUMP IN ELEVATOR SUMP PIT

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	WASTE RUNOUT	WASTE CONN.	VENT	WATER RUNOUT		WATER CONN.		SPECIFICATION
					CW	HW	CW	HW	
FD-1	FLOOR DRAIN - GENERAL PURPOSE	3"	3"	2"	---	---	---	---	GENERAL PURPOSE FLOOR DRAIN (J.R. SMITH #2005) WITH FLASHING COLLAR, ADJUSTABLE STRAINER HEAD & 5" ROUND NICKEL BRONZE STRAINER. PROVIDE SQUARE STRAINER FOR TILE APPLICATIONS. PROVIDE ASSE 1072 TRAP SEALER (ZURN Z1072).

ELEVATOR SUMP PUMP SCHEDULE

MARK	CAPACITY	ELECTRICAL	BASIS
ESP-1	50 GPM @ 20' HEAD	3/4 HP	LIBERTY ELV-290

PRIOR TO SUBMITTAL OR PURCHASE, THE PLUMBING CONTRACTOR SHALL VERIFY THE APPROPRIATE ELECTRICAL CHARACTERISTICS OF THE SELECTED PUMP. COORDINATE DIRECTLY WITH THE ELECTRICAL CONTRACTOR AND THE POWER PANEL SCHEDULES ON THE ELECTRICAL DRAWINGS.

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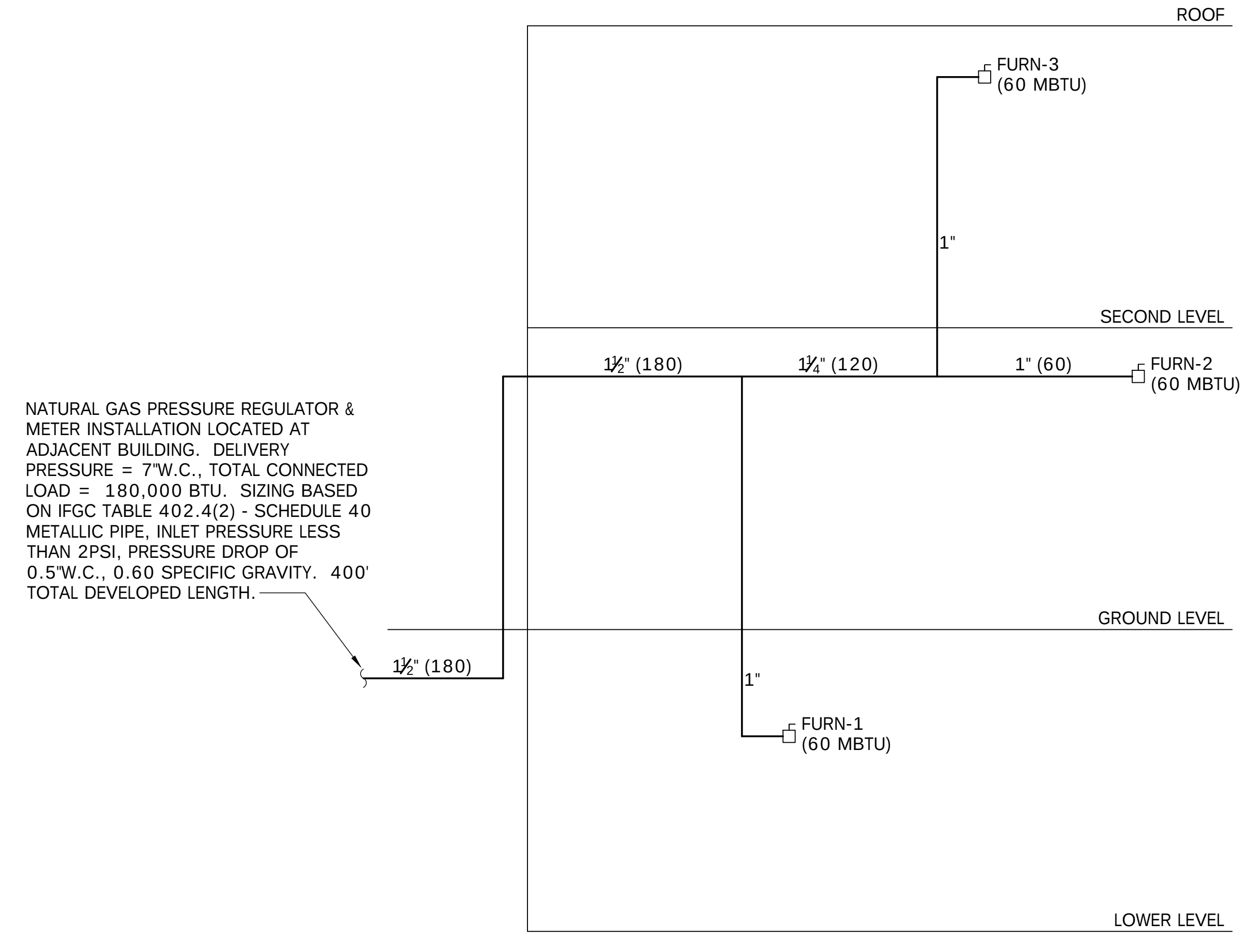
NATURAL GAS RISER DIAGRAM

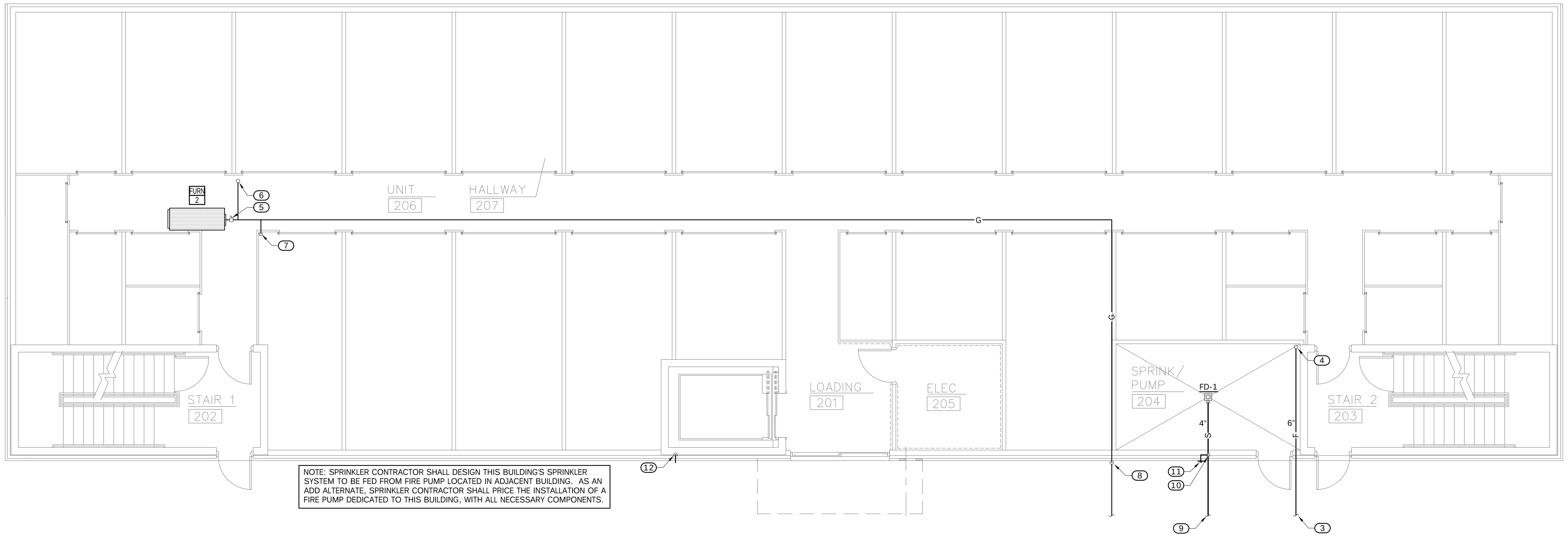
NO SCALE



NATURAL GAS PRESSURE REGULATOR & METER INSTALLATION LOCATED AT ADJACENT BUILDING. DELIVERY PRESSURE = 7"W.C., TOTAL CONNECTED LOAD = 180,000 BTU. SIZING BASED ON IFGC TABLE 402.4(2) - SCHEDULE 40 METALLIC PIPE, INLET PRESSURE LESS THAN 2PSI, PRESSURE DROP OF 0.5"W.C., 0.60 SPECIFIC GRAVITY. 400' TOTAL DEVELOPED LENGTH.

KEYNOTES

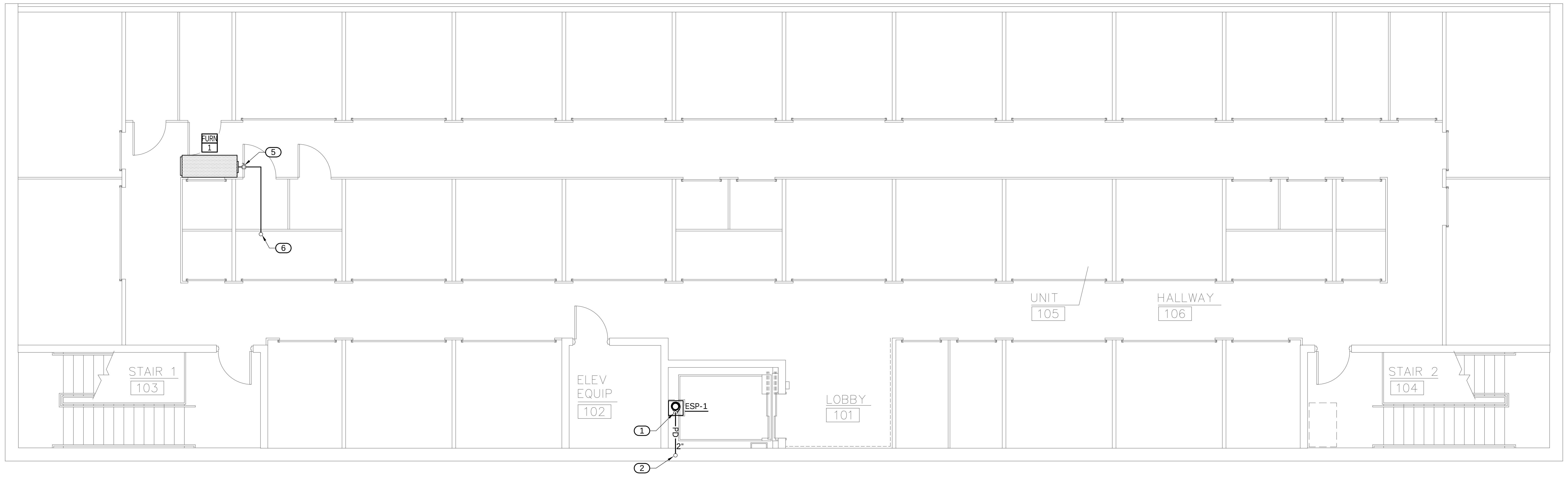
① 2" PD DN TO ELEVATOR SUMP PUMP (SEE DETAIL)
② 2" PD DN IN WALL TO GROUND LEVEL
③ 6" FIRE SPRINKLER MAIN FROM UNDERGROUND WATER STORAGE TANKS.
④ 6" SPRINKLER MAIN B/F & STUB UP. SPRINKLER DESIGN BY SPRINKLER CONTRACTOR. AS AN ADD ALTERNATE, INSTALL ELECTRIC DRIVEN 40 HP HORIZONTAL SPLIT CASE FIRE PUMP RATED AT 70 PSI @ 500GPM
⑤ NATURAL GAS CONNECTION TO FURNACE W/ SHUTOFF VALVE, DIRT LEG & UNION, SEE DETAIL
⑥ NATURAL GAS UP
⑦ NATURAL GAS DN
⑧ NATURAL GAS DN ALONG EXTERIOR WALL & B/G. SEE RISER DIAGRAM FOR PIPE SIZING AND DESIGN CRITERIA.
⑨ 4" S B/G & CONNECT TO EXISTING SITE UTILITY, SEE CIVIL DWG.
⑩ 2" V DN
⑪ 2" SIDEWALL VENT TERMINATION WITH PROTECTIVE SCREEN, INSTALL IN ACCORDANCE WITH IPC 903.6
⑫ 2" PD UP FROM BELOW & THROUGH EXTERIOR WALL. DISCHARGE TO GRADE WITH TURN DOWN @ 1'-0" AFG



NOTE: SPRINKLER CONTRACTOR SHALL DESIGN THIS BUILDING'S SPRINKLER SYSTEM TO BE FED FROM FIRE PUMP LOCATED IN ADJACENT BUILDING. AS AN ADD ALTERNATE, SPRINKLER CONTRACTOR SHALL PRICE THE INSTALLATION OF A FIRE PUMP DEDICATED TO THIS BUILDING, WITH ALL NECESSARY COMPONENTS.

2/P1.1 FIRST FLOOR PLAN

SCALE: 3/16" = 1'-0"



1/P1.1 LOWER LEVEL PLAN

SCALE: 3/16" = 1'-0"

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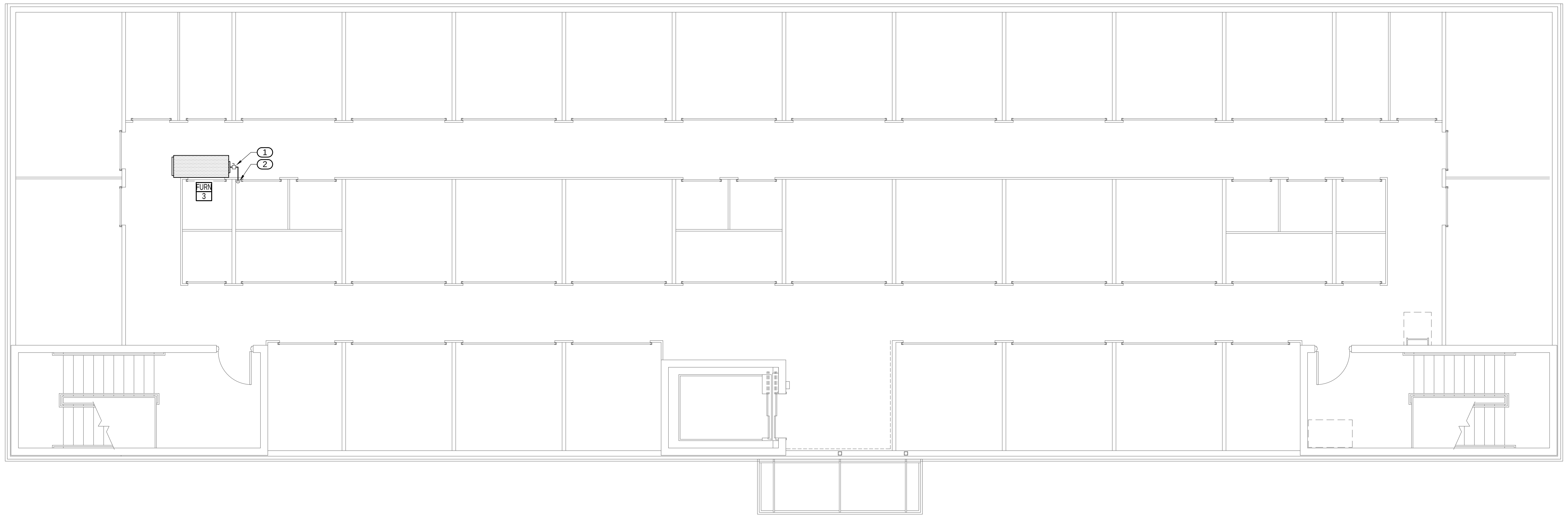
KEYNOTES

① NATURAL GAS CONNECTION TO FURNACE W/ SHUTOFF VALVE, DIRT LEG & UNION, SEE DETAIL
② NATURAL GAS DN



1
P1.2
SECOND FLOOR PLAN
SCALE: 3/16" = 1'–0"

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GENERAL NOTES:

GENERAL:

1. PROVIDE CONSTRUCTION CONFORMING TO THE 2020 BUILDING CODE OF NEW YORK STATE.. REFERENCE TO OTHER STANDARDS, SPECIFICATIONS, OR CODES MEANS THE LATEST STANDARD OR CODE PUBLISHED AND ADOPTED.
2. MATERIAL TESTS AND INSPECTIONS ARE REQUIRED PER CHAPTER 17 OF THE 2018 INTERNATIONAL BUILDING CODE. REFER TO THE PROJECT STATEMENT OF SPECIAL INSPECTIONS FOR REQUIRED TESTS AND INSPECTIONS.
3. THESE NOTES APPLY EXCEPT WHERE OTHERWISE INDICATED BY DRAWINGS OR SPECIFICATIONS.
4. STRUCTURAL DRAWINGS INDICATE TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. SUBMITTED SHOP DRAWINGS DETAIL ALL CONDITIONS IN ACCORDANCE WITH SPECIFIED STANDARDS AND THE SPECIFIC REQUIREMENTS OF THIS PROJECT AS INDICATED ON THE DRAWINGS.
5. COORDINATE THE STRUCTURAL CONTRACT DOCUMENTS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, CIVIL, AND ALL OTHER CONSULTANTS. NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD IN WRITING OF ANY CONFLICT AND/OR OMISSION.
6. COORDINATE AND VERIFY FLOOR AND ROOF OPENING SIZES AND LOCATIONS SHOWN WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS. FOR ADDITIONAL OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS REFER TO THE ARCHITECTURAL AND MECHANICAL DRAWINGS. OBTAIN WRITTEN APPROVAL OF ADDITIONAL OPENINGS LARGER THAN 12” X 12” FROM THE STRUCTURAL ENGINEER OF RECORD.
7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, AND ALL OTHER MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
8. COORDINATE THE BUILDING ORIENTATION WITH THE ARCHITECTURAL DRAWINGS.
9. COMPLETE SHOP DRAWINGS FOR CONSTRUCTION OF EACH BUILDING COMPONENT NOT DESIGNED BY THE DESIGN TEAM OF RECORD AND NOT SPECIFIED ON THE PROJECT CONSTRUCTION DOCUMENTS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED AND SHALL BE MADE AVAILABLE AT THE JOB SITE.
10. INSTALL ALL PRODUCTS AND MATERIALS PER MANUFACTURER'S RECOMMENDATIONS.

FOUNDATION:

1. THE DESIGN OF FOUNDATIONS, RETAINING WALLS AND SLABS-ON-GRADE IS BASED ON THE FOLLOWING CRITERIA ESTABLISHED IN THE GEOTECHNICAL REPORT BY GZA GEOENVIRONMENTAL INC., DATED AUGUST 19, 2022 REPORT NUMBER 26.0092736.00.
    ALLOWABLE NET SOIL BEARING PRESSURE: 4000 PSF
    EQUIVALENT LATERAL FLUID PRESSURE (ACTIVE): 40 PSF/FT
    EQUIVALENT LATERAL FLUID PRESSURE (AT REST): 61 PSF/FT
    EQUIVALENT LATERAL PASSIVE PRESSURE: 423 PSF/FT
    MODULUS OF SUBGRADE REACTION (ASSUMED): 150 PCI
    COEFFICIENT OF SLIDING FRICTION: 0.40
    ANGLE OF INTERNAL FRICTION: 32 DEGREES
    SOIL DENSITY: 130 PCF
    AFTER EXCAVATION, IF THE CONDITION OF THE SOILS DO NOT MEET THE RECOMMENDED DESIGN CRITERIA STATED IN THE GEOTECHNICAL REPORT, NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD SO THAT THE FOUNDATIONS MAY BE REDESIGNED IF NECESSARY.
2. THE GEOTECHNICAL ENGINEER MUST VERIFY THE CONDITION AND/OR ADEQUACY OF ALL SUB-GRADES, FILLS, AND BACKFILLS PRIOR TO THE PLACEMENT OF FOUNDATIONS, FOOTINGS, SLABS, WALLS, ETC. BACKFILL TO BE GRANULAR MATERIAL CONFIRMING TO THE GEOTECHNICAL ENGINEER'S REQUIREMENTS. GEOTECHNICAL ENGINEER TO CONFIRM BACKFILL MATERIAL CONFORMS TO THE ABOVE SOIL PARAMETERS PRIOR TO PLACING THE BACKFILL.
3. COORDINATE TOP OF FOOTING ELEVATIONS WITH THE REQUIREMENTS OF OTHER TRADES (PLUMBING, ELECTRICAL, ETC.).
4. LOCATE BOTTOM OF EXTERIOR FOOTING ELEVATIONS 4'-0” BELOW FINISHED FLOOR, BUT NOT LESS THAN 4'-0” BELOW FINISHED GRADE, UNLESS NOTED OTHERWISE.
5. LOCATE BOTTOM OF INTERIOR FOOTING ELEVATIONS 1'-6” BELOW FINISHED FLOOR, UNLESS NOTED OTHERWISE.
6. BACK FILLING WALLS:
    A. DEPOSIT BACKFILL AGAINST WALLS EVENLY AGAINST BOTH SIDES OF WALL UNTIL THE LOWER FINAL GRADE IS REACHED.
    B. DO NOT PLACE BACKFILL AGAINST WALLS DEPENDENT UPON TOP AND BOTTOM CONCRETE SLABS FOR SUPPORT UNTIL THE CONCRETE SLABS HAVE ATTAINED 65% OF THEIR DESIGN 28 DAY COMPRESSION STRENGTH.
    C. SHORE AND BRACE WALLS SHOWN MONOLITHIC WITH A SLAB-ON-GRADE AT THE TOP OF THE WALL DURING BACKFILLING OPERATIONS.
    D. FOR CANTILEVERED RETAINING WALLS, DO NOT PLACE BACKFILL AGAINST THE WALL UNTIL THE WALL CONCRETE HAS ATTAINED THE SPECIFIC 28 DAY STRENGTH.
7. CONSTRUCT COLUMN FOOTINGS AND WALL FOOTINGS MONOLITHICALLY WITH TOPS OF ADJACENT FOOTINGS AT THE SAME ELEVATION.
8. FILLS:
    A. REMOVE ALL UNSUITABLE SOILS AND REPLACE WITH CLEAN STRUCTURAL FILL AT THE DIRECTION OF THE GEOTECHNICAL ENGINEER.
    B. PLACE FILL SOILS IN 6” MAXIMUM (LOOSE) LIFTS AT MOISTURE CONTENTS AS DESCRIBED IN THE GEOTECHNICAL REPORT.
    C. COMPACT ALL FILL WITHIN 10'-0” OF THE BUILDING LIMIT TO 98% STANDARD PROCTOR.
    D. TEST FIELD DENSITY AS DESCRIBED IN THE GEOTECHNICAL REPORT TO VERIFY ADEQUATE COMPACTION AND DESIGN BEARING PRESSURE.
9. SIDES OF FOUNDATIONS MUST BE FORMED UNLESS CONDITIONS PERMIT EARTH FORMING. FOUNDATIONS PLACED AGAINST THE EARTH REQUIRE THE FOLLOWING PRECAUTIONS: SLOPE SIDES OF EXCAVATIONS AS APPROVED BY THE GEOTECHNICAL ENGINEER AND CLEAN UP SLOUGHING BEFORE AND DURING CONCRETE PLACEMENT.
10. WHERE FOOTING STEPS ARE NECESSARY, SLOPE NO STEEPER THAN ONE VERTICAL TO TWO HORIZONTAL.

REINFORCED CONCRETE:

1. PROVIDE REINFORCED CONCRETE CONFORMING TO THE FOLLOWING STANDARDS:
    ACI 301-10, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.
    ACI 318-14, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
    ACI 302.1R-04, GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION.
    ACI 360R-10, DESIGN OF SLABS-ON-GROUND.
2. FULLY DOCUMENT AND SUBMIT FOR REVIEW THE PROPOSED MATERIALS AND MIX DESIGN FOR ALL CONCRETE. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE REQUIRED DESIGN STRENGTH. ALL CONCRETE TEST DATA MUST BE AVAILABLE AT THE JOB SITE.
3. DETAIL CONCRETE REINFORCEMENT ACCORDING TO ACI SP-66 DETAILING MANUAL. SUBMIT SHOP DRAWINGS FOR APPROVAL, SHOWING ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING CONCRETE REINFORCING AND ACCESSORIES. DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS ARE COMPLETED AND REVIEWED BY THE STRUCTURAL ENGINEER OF RECORD. UNLESS SPECIFICALLY APPROVED OTHERWISE, DETAIL ALL CONCRETE WALLS AND BEAMS IN ELEVATION.
4. PROVIDE NORMAL WEIGHT CONCRETE WITH 4000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
5. PROVIDE CONCRETE WITH:
    A. 4% TO 6% ENTRAINED AIR BY VOLUME IN CONCRETE PERMANENTLY EXPOSED TO WEATHER.
    B. THE USE OF CALCIUM CHLORIDE, CHLORIDE IONS, OR OTHER SALTS IS NOT PERMITTED.
    C. PLACE CONCRETE AT A SLUMP OF 4” ± 1” UNLESS NOTED OTHERWISE.
6. CONSTRUCT CONCRETE WALLS MONOLITHICALLY WITH ADJOINING COLUMNS UNLESS SPECIFICALLY NOTED OTHERWISE. INSTALL CONCRETE FOR SUCH WALLS THAT IS THE SAME TYPE AND STRENGTH AS SPECIFIED FOR COLUMNS.
7. UNLESS NOTED OTHERWISE, PROVIDE REINFORCING STEEL CONFORMING TO ASTM A 615, GRADE 60.
8. PROVIDE WELDED WIRE REINFORCEMENT (W.W.R.) IN FLAT SHEETS (ROLLS NOT PERMITTED) CONFORMING TO ASTM A 1064. LAP WELDED WIRE REINFORCEMENT A MINIMUM OF 6” AT EACH SPLICE. PLACE WELDED WIRE REINFORCEMENT 1½" BELOW THE TOP OF SLABS-ON-GRADE.
9. FIBER REINFORCING MAY BE SUBSTITUTED FOR WELDED WIRE REINFORCEMENT (W.W.R.) IN SLABS-ON-GRADE WITH THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD. PROVIDE FIBER REINFORCING CONFORMING TO ASTM A 820, TYPE I.
10. WATERSTOPS:
    A. PROVIDE AN ACTIVE SODIUM BENTONITE WATERSTOP IN ALL BELOW GRADE CONCRETE CONSTRUCTION JOINTS THAT IS MANUFACTURED SPECIFICALLY FOR THIS PURPOSE.
    B. INSTALL THE WATERSTOP MATERIAL IN STRICT CONFORMANCE WITH THE MANUFACTURER'S WRITTEN OR PUBLISHED INSTRUCTIONS.
    C. IF AN ADHESIVE IS REQUIRED TO FIX THE WATERSTOP MATERIAL TO THE CONCRETE SUBSTRATE ONLY USE MATERIAL THAT CONFORMS TO THE REQUIREMENTS OF THE WATERSTOP MANUFACTURER.
11. UNLESS NOTED OTHERWISE, PROVIDE THE FOLLOWING CONCRETE COVER ON ALL REINFORCING STEEL:

REINFORCING STEEL	CONCRETE COVER
A. CONCRETE AGAINST EARTH (NOT FORMED):	3"
B. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 THROUGH #18 BARS:	2”
#5 BARS AND SMALLER:	1½"
C. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER:	
SLABS AND WALLS:	¾"
COLUMNS (TIES):	1½"

12. PROVIDE CONTINUOUS REINFORCEMENT WHEREVER POSSIBLE. SPLICE REINFORCING BARS ONLY AS SHOWN OR APPROVED. STAGGER SPLICES WHERE POSSIBLE. USE CLASS “B” TENSION SPLICES UNLESS NOTED OTHERWISE INCLUDING DOWELS.
13. DO NOT LAP MORE THAN 50 PERCENT OF HORIZONTAL WALL REINFORCING IN A SINGLE VERTICAL PLANE.
14. TIE ALL REINFORCING STEEL AND EMBEDDED ITEMS SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN THE POSITION OF THE REINFORCEMENT WITHIN SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES.
15. “STICKING” DOWELS, ANCHOR RODS, OR OTHER EMBEDDED ITEMS INTO WET CONCRETE IS NOT PERMITTED.
16. PROVIDE CORNER BARS AT ALL CORNERS AND INTERSECTIONS OF ALL FOOTINGS, BEAMS, AND WALLS.
17. PROVIDE CONSTRUCTION OR CONTRACTION JOINTS IN SLABS ON GRADE SO THAT THE MAXIMUM AREA OF SLAB BETWEEN JOINTS IS NO MORE THAN 400 SQUARE FEET AND THE LENGTH BETWEEN CONTROL JOINTS IS NO MORE THAN 1¼ TIMES THE WIDTH BETWEEN CONTROL JOINTS.
18. CONTRACTION JOINTS: PROVIDE JOINTS UTILIZING THE DRY CUT (SOFF-CUT) METHOD.
    A. INITIATE SAW CUTTING AS SOON AS THE SLAB WILL SUPPORT THE WEIGHT OF THE SAW AND OPERATOR WITHOUT CHIPPING, SPALLING, TEARING OR DISTURBING FINAL FINISH (NORMALLY WITHIN 2 HOURS AFTER FINAL FINISHING AT EACH CONTRACTION JOINT LOCATION).
        a. SAW: PROVIDE A HUSQVARNA SOFF-CUT 150 SAW OR APPROVED EQUAL.
        b. SPACING: PROVIDE JOINTS AT SPACING SHOWN ON PLAN.
        c. DEPTH: PROVIDE JOINTS AT DEPTH SHOWN ON PLAN.
        d. SAW CUT JOINTS IN A NEAT, VERTICAL STRAIGHT LINE.
        e. SAW CUT JOINTS TO BE ⅛" WIDTH.
    B. THE SAW OPERATION SHALL BE CARRIED ON AS REQUIRED DURING BOTH DAY AND NIGHT REGARDLESS OF CONDITIONS.
    C. SAW JOINTS AT THE REQUIRED SPACING CONSECUTIVELY IN THE SEQUENCE OF THE CONCRETE PLACEMENT.
        a. A CHALK LINE FOR MARKING JOINT LOCATION SHALL NOT VARY MORE THAN ¼" FROM THE TRUE JOINT ALIGNMENT.
        b. PROTECT ALL JOINT INTERSECTIONS WITH "SOFF-CUT JOINT PROTECTOR, METEGER / MCGUIRE SPAL-PRO ROD" OR EQUAL.
    D. WORKMEN AND INSPECTOR SHALL WEAR CLEAN, RUBBER-SOLED FOOTWEAR, AND THE NUMBER OF PERSONS WALKING ON THE SLAB SHALL BE LIMITED TO THOSE ACTUALLY PERFORMING THE SAWING OPERATION.
    E. INITIAL JOINT CUTTING PROCEDURE:
        a. ATTEMPT A 5 FOOT LONG CUT AND EVALUATE IT FOR REVELING OR SPALLING BEFORE CUTTING ENTIRE SECTION.
        b. WHEN FIBERS ARE PULLED UP, DELAY THE CUTTING AND REPEAT THE ABOVE PROCEDURE UNTIL THE CUT REVEALS FIBERS.
    F. IMMEDIATELY AFTER THE JOINT IS SAWED, THE SAW CUT AND ADJACENT CONCRETE SURFACE SHALL BE THOROUGHLY CLEANED BY LIGHT SWEEP WITH A SOFT BROOM OR DRY VACUUM. ANY MEMBRANE-CURED SURFACE DAMAGED DURING SAWING OPERATIONS SHALL BE RE-SPRAYED.
    G. PROVIDE THE NUMBER OF SAWING UNITS EQUIPMENT POWER TO COMPLETE THE SAWING AT THE REQUIRED TIME.
        a. HAVE AN AMPLE SUPPLY OF BLADES AND ANTI-RAVELING SKID PLATES SHALL BE AVAILABLE ON THE JOB BEFORE CONCRETE PLACEMENT IS STARTED.
        b. PROVIDE AT LEAST ONE STANDBY SAWING UNIT IN GOOD WORKING ORDER AT THE JOBSITE AT ALL TIMES DURING THE SAWING OPERATION.
        c. REPLACE SAW BLADES AND ANTI-RAVELING SKID PLATES AS REQUIRED BY THE SAW MANUFACTURER.
19. THE LOCATION OF CONSTRUCTION JOINTS REQUIRES THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
    A. UNLESS NOTED OTHERWISE, THOROUGHLY ROUGHEN (BY MECHANICAL MEANS) AND CLEAN CONSTRUCTION JOINTS.
    B. APPLY SLUSH COAT AS SPECIFIED.
20. UNLESS NOTED OTHERWISE:
    A. PROVIDE VERTICAL CONTROL JOINTS IN FOUNDATION WALLS WITH A MAXIMUM SPACING OF 10'-0” ON CENTER AND ¾" DEEP V-CHAMFER ON BOTH FACES.
    B. PLACE CONSTRUCTION JOINTS AT CONTROL JOINT LOCATIONS. PROVIDE KEYS IN ALL CONSTRUCTION JOINTS.
    C. INTERRUPT HALF OF THE SPECIFIED HORIZONTAL REINFORCEMENT AT CONTROL JOINTS.
    D. CENTER CHAMFER STRIPS BETWEEN VERTICAL REINFORCING BARS.
21. ALL CONDUIT, SLEEVES AND PIPES EMBEDDED IN CONCRETE SHALL CONFORM TO SECTION 20.7 OF ACI 318 AND THE FOLLOWING UNLESS NOTED OTHERWISE:
    A. SLEEVES AND PIPES SHALL BE PLACED SO THAT REINFORCING STEEL CAN BE PLACED WITH THE SPECIFIED COVER AND CLEAR DISTANCE BETWEEN BARS.
    B. THE CONCRETE COVERING OF PIPE AND SLEEVES SHALL NOT BE LESS THAN ONE INCH. CLEAR DISTANCE BETWEEN SUCH PIPES AND SLEEVES SHALL NOT BE LESS THAN ONE AND ONE-HALF INCHES.
    C. CONDUIT AND PIPES PLACED IN SLABS SHALL NOT BE LARGER IN OUTSIDE DIAMETER THAN ONE-THIRD THE THICKNESS OF SLAB.
    D. DO NOT PLACE CONDUIT IN ELEVATED SLABS.
22. THE PLACEMENT OF ALL REINFORCING STEEL MUST BE REVIEWED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS TO BE CONSTRUCTED OR BY A REPRESENTATIVE RESPONSIBLE TO HIM (REF: ACI 318, 26.13.1.2).

STRUCTURAL MASONRY:

1. PROVIDE STRUCTURAL MASONRY CONFORMING TO THE FOLLOWING STANDARDS:
    A. TMS 402-16, BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES.
    B. TMS 602-16, SPECIFICATIONS FOR CONCRETE MASONRY STRUCTURES.
2. LOAD BEARING MASONRY WALLS ARE DESIGNED IN ACCORDANCE WITH PARTS 1, 2 AND 3 OF TMS 402.
3. PROVIDE HOLLOW, LOAD BEARING CONCRETE MASONRY UNITS (CMU) CONFORMING TO ASTM C 90 WITH A MINIMUM COMPRESSIVE STRENGTH OF MASONRY (F'_M) OF 1500 PSI AND A NET STRENGTH OF 2000 PSI ON THE NET CROSS-SECTIONAL AREA OF CMU DETERMINED IN ACCORDANCE WITH ASTM C 140.
4. PROVIDE BRICK MASONRY UNITS CONSTRUCTED OF CLAY OR SHALE CONFORMING TO ASTM C 652.
5. PROVIDE MORTAR CONFORMING TO ASTM C 270, TYPE S. STANDARD MORTAR BED JOINT THICKNESS IS ⅜" AND MUST NOT VARY OUTSIDE OF THE RANGE BETWEEN ONE QUARTER INCH AND ONE HALF INCH. DO NOT USE AIR ENTRAINED MORTAR.
6. PROVIDE GROUT FOR REINFORCED MASONRY CONFORMING TO ASTM C 476 WITH MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AND A MINIMUM SLUMP OF 10”.
7. PROVIDE STEEL REINFORCEMENT IN MASONRY WALLS CONFORMING TO ASTM A615, GRADE 60.
8. PROVIDE MASONRY TIES AND ANCHORS OF THE TYPE AND SPACING AS DETAILED ON THE STRUCTURAL DRAWINGS AND IN CONFORMANCE WITH ASTM A82.
9. PROVIDE LADDER TYPE HORIZONTAL JOINT REINFORCING CONFORMING TO ASTM A951 IN ALL MASONRY WALLS. UNLESS NOTED OTHERWISE, PLACE 9 GAGE ZINC COATED LADDER TYPE HORIZONTAL JOINT REINFORCING AT 16” ON CENTER. LAP HORIZONTAL JOINT REINFORCING MINIMUM 12”. USE PREFABRICATED 'L'S AND 'T'S AT CORNERS AND INTERSECTIONS.
10. LAY ALL MASONRY UNITS IN RUNNING BOND.
11. FOR GROUTED WALLS:
    A. THE MAXIMUM HEIGHT OF GROUT LIFTS MUST NOT EXCEED 5'-4”.
    B. CONSOLIDATE AND RECONSOLIDATE GROUT IN ACCORDANCE WITH PARAGRAPH 3.5.E OF TMS 602-16.
12. REINFORCEMENT:
    A. DETAIL REINFORCEMENT IN LOAD BEARING CMU WALLS IN ELEVATION ON SHOP DRAWINGS.
    B. LAP VERTICAL MASONRY WALL REINFORCING AS SHOWN IN THE MASONRY LAP LENGTH SCHEDULE AND PROVIDE MINIMUM BAR SPLICE LENGTH.
13. PROVIDE VERTICAL CONTROL JOINTS IN ALL MASONRY WALLS NOT RETAINING EARTH. UNLESS NOTED OTHERWISE ON THE ARCHITECTURAL DRAWINGS, PLACE VERTICAL CONTROL JOINTS AT THREE TIMES THE WALL STORY HEIGHT, BUT NOT CLOSER THAN 25'-0” ON CENTER OR FARTHER THAN 40'-0” ON CENTER.
14. UNLESS NOTED OTHERWISE, PROVIDE MINIMUM (1) #5 VERTICAL BAR, GROUTED FULL STORY HEIGHT, AT EACH SIDE OF OPENINGS AND AT ALL CORNERS AND ENDS OF WALLS, INCLUDING BOTH SIDES AT ENDS OF WALL PANELS AT VERTICAL CONTROL JOINTS.
15. UNLESS NOTED OTHERWISE, ANCHOR SIDES AND TOPS OF MASONRY WALL PANELS TO THE STRUCTURE BY DOVETAIL ANCHORS, METAL STRAPS, OR EQUIVALENT.
16. PLACE CONNECTORS FOR MASONRY VENEERS AT NOT MORE THAN 16” ON CENTER VERTICALLY OR 24” ON CENTER HORIZONTALLY.
17. PROVIDE A CONTINUOUS BOND BEAM AT THE TOP OF ALL MASONRY WALLS. UNLESS NOTED OTHERWISE REINFORCE BOND BEAMS WITH (2) #4 CONTINUOUS REINFORCING BARS.
18. PROVIDE LEVEL B QUALITY ASSURANCE AS DESCRIBED IN TABLE 4 OF TMS 602-16.
19. SAMPLE AND TEST GROUT IN ACCORDANCE WITH ASTM C 1019, STANDARD METHOD FOR SAMPLING AND TESTING GROUT.

STRUCTURAL STEEL:

1. PROVIDE STRUCTURAL STEEL CONFORMING TO THE FOLLOWING STANDARDS:
    A. AISC MANUAL OF STEEL CONSTRUCTION, 15TH EDITION
    B. AISC 360-16, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
    C. AISC 303-16, CODE OF STANDARD PRACTICE FOR STRUCTURAL STEEL BUILDINGS AND BRIDGES
    D. AISC 326-09, DETAILING FOR STEEL CONSTRUCTION, 3RD EDITION
2. SHOP DRAWINGS:
    A. SUBMIT SHOP DRAWINGS PREPARED IN ACCORDANCE WITH AISC 326-09.
    B. PROVIDE COMPLETE WELDING INFORMATION USING AWS SYMBOLS.
    C. USE PREQUALIFIED WELDED JOINTS PER AISC AND AWS D1.1 “STRUCTURAL WELDING CODE.”
    D. DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS ARE COMPLETED AND APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
3. UNLESS NOTED OTHERWISE PROVIDE STRUCTURAL STEEL CONFORMING TO:

A. WIDE FLANGE SHAPES:	ASTM A992
B. CHANNELS, ANGLES AND PLATES:	ASTM A36
C. HOLLOW STEEL SECTIONS (HSS):	ASTM A500, GRADE C
D. STRUCTURAL PIPES:	ASTM A53, TYPE E OR S, GRADE B
E. HEADED STUDS:	ASTM A 29 / A108
F. DEFORMED BAR ANCHORS (DBA):	ASTM A 1064
G. ANCHOR RODS:	ASTM F 1554, GRADE 36.
H. COMMON BOLTS:	ASTM A 307, GRADE A

4. BOLTED CONNECTIONS:
    A. UNLESS NOTED OTHERWISE, MAKE ALL CONNECTIONS WITH 3/4” DIAMETER ASTM A 325 BOLTS.
    B. ASSEMBLE AND INSPECT BOLTED CONNECTIONS IN ACCORDANCE WITH RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC) “SPECIFICATION FOR JOINTS USING HIGH STRENGTH BOLTS”, AUGUST 1, 2014.
    C. PROVIDE SNUG TIGHT JOINTS.
5. WELDED CONNECTIONS:
    A. MAKE ALL WELDED CONNECTIONS IN ACCORDANCE WITH AWS D1.1-04 “STRUCTURAL WELDING CODE”, USING TYPE E70XX ELECTRODES.
    B. EMPLOY ONLY CERTIFIED WELDERS.
    C. MAINTAIN PROOF OF CERTIFICATION AT THE JOB SITE.
6. PROVIDE CONNECTIONS FOR BEAMS WHICH CANNOT CONFORM TO THE TYPICAL CONNECTION DETAILS IN ACCORDANCE WITH THE FOLLOWING:
    A. WHERE MEMBER REACTIONS ARE NOT SHOWN ON THE DRAWINGS, DETAIL CONNECTIONS FOR THE MAXIMUM UNIFORM LOAD SHOWN IN THE MAXIMUM TOTAL UNIFORM LOAD TABLES, IN TABLE 3-6 OF THE AISC STEEL CONSTRUCTION MANUAL FOR THE SPAN SHOWN ON THE DRAWING.
    B. WHERE MEMBER REACTIONS ARE SHOWN, PROVIDE CONNECTIONS TO DEVELOP THE REACTIONS SHOWN.
    C. WHERE CONNECTIONS ARE SUBJECT TO ECCENTRICITY, DETAIL CONNECTIONS THAT ACCOUNT FOR THE ECCENTRICITY.
7. PROVIDE SPECIAL CONNECTIONS BETWEEN STEEL FRAMING COMPONENTS NOT DETAILED BY THE STRUCTURAL ENGINEER OF RECORD DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS TO BE CONSTRUCTED INCLUDING BUT NOT LIMITED TO BRACE END CONNECTIONS, MOMENT RESISTING CONNECTIONS, MODIFIED BEAM SEAT CONNECTIONS, AND MEMBER SPLICE CONNECTIONS.
8. DO NOT USE GAS CUTTING TORCHES TO CORRECT FABRICATION ERRORS IN STRUCTURAL STEEL FRAMING.
9. PROVIDE TEMPORARY BRACING FOR STRUCTURAL STEEL FRAMING UNTIL ALL PERMANENT BRACING, MOMENT CONNECTIONS, AND FLOOR/ROOF DECKS (DIAPHRAGMS) ARE COMPLETELY INSTALLED.
10. PAINT STRUCTURAL STEEL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. DO NOT PAINT STEEL SURFACES TO BE ENCASED IN CONCRETE, SURFACES TO RECEIVE FIREPROOFING, CONNECTIONS DESIGNATED AS FRICTION TYPE, SURFACES TO BE WELDED, OR SURFACES RECEIVING WELDED STUDS OR DEFORMED BAR ANCHORS ("DBA'S") IN THE FIELD.
11. LATERAL BRACING IS CONSIDERED PART OF THE PRIMARY STRUCTURAL FRAME FOR FIRE PROOFING REQUIREMENTS. SEE ARCHITECTURAL DRAWINGS FOR FIRE PROOFING REQUIREMENTS. FIRE RESISTANCE RATED STEEL ASSEMBLIES ARE CONSIDERED RESTRAINED.

COLD FORMED METAL FRAMING:

1. PROVIDE COLD-FORMED METAL FRAMING CONFORMING WITH THE FOLLOWING STANDARDS: AISI S100-16 NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS
2. PROVIDE CURTAIN WALL FRAMING INSTALLATION TO ACCOMMODATE VERTICAL DISPLACEMENT OF THE PRIMARY STRUCTURE.
3. PROVIDE STUDS, RUNNER TRACK, AND ASSOCIATED ACCESSORIES OF THE TYPE AND THICKNESS INDICATED ON THE DRAWINGS.
4. PROVIDE STUDS, JOISTS, RUNNER TRACK, AND ACCESSORIES MANUFACTURED OF HOT DIP GALVANIZED ASTM A 1003 STEEL WITH THE FOLLOWING YIELD STRENGTH:
    33,000 PSI 43-MIL (18 GAGE) MEMBERS
    50,000 PSI 54-MIL (16 GAGE), 68-MIL (14 GAGE), AND 97-MIL (12 GAGE) MEMBERS
5. SUBMIT SHOP DRAWINGS SHOWING THE SIZE OF ALL MEMBERS AND ALL CONNECTIONS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS TO BE CONSTRUCTED.
    REVIEW OF SHOP DRAWINGS BY THE STRUCTURAL ENGINEER OF RECORD IS FOR:
    A. GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS REGARDING ARRANGEMENT AND SIZES OF MEMBERS.
    B. THE DESIGNER'S INTERPRETATION OF THE DESIGN LOADS AND CONTRACT DOCUMENT DETAILS.
6. MINIMUM CONNECTIONS (UNLESS NOTED OTHERWISE ON THE DRAWINGS):
    A. STUD TO STUD CONNECTIONS: A MINIMUM OF TWO 10 - 16 SELF TAPPING SCREWS.
    B. STUD TO TRACK CONNECTIONS: TWO 10 - 16 SELF TAPPING SCREWS.
    C. TRACK ON CONCRETE SLAB: 0.157" Ø X 1¼"POWER ACTUATED FASTENERS AT 1'-6” ON CENTER MAXIMUM.
    D. MULTIPLE STUD JAMBS: #10 SCREWS AT 12” ON CENTER PENETRATING EACH MEMBER.
    E. STUD TO WALL SHEATHING: ½" X 1⅝" BUGLE HEAD #6 SELF DRILLING SCREWS AT 8” ON CENTER INTO ALL FRAMING MEMBERS, EXCEPT AT 6" ON CENTER WITHIN 14'-0" OF BUILDING CORNERS (ZONE 5) AT EDGES AND 12” ON CENTER IN FIELD.
    F. SEE ARCHITECTURAL DRAWINGS FOR EXACT SHEATHING TYPE.
    G. STUD TO STRUCTURAL STEEL: AS SHOWN ON SECTIONS.
7. PROVIDE BRIDGING AND BRACING PER STUD MANUFACTURERS RECOMMENDATIONS.
8. REINFORCE EXTERIOR STUDS THAT ARE CUT TO INSTALL MECHANICAL OR ELECTRICAL MATERIAL. SUBMIT REINFORCEMENT DETAIL FOR APPROVAL BEFORE PROCEEDING WITH CONSTRUCTION.
9. ANY EXTERIOR BUILDING SIGNAGE PROVIDED BY THE OWNER IS TO HAVE THE SIGN FRAME ATTACHED PER THE MANUFACTURER'S RECOMMENDATION TO EVERY COLD FORMED STEEL WALL STUD THAT THE SIGN FRAME CROSSES, BOTH TOP AND BOTTOM OF THE SIGN FRAME.

POST-INSTALLED ANCHORS:

1. GENERAL
    A. PRE-CONSTRUCTION DUTIES OF THE CONTRACTOR:
        1. ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED.
        2. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.
    B. INSTALL POST-INSTALLED ANCHORS ONLY WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS.
    C. OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS.
    D. ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
    E. EXISTING REINFORCING BARS AND OTHER EMBEDDED MATERIAL CONTAINED IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS.
        1. CONTRACTOR REVIEW THE EXISTING STRUCTURAL DRAWINGS AND UNDERTAKE TO LOCATE THE POSITION OF MATERIAL EMBEDDED IN THE CONCRETE AT THE LOCATIONS OF THE DETAILED ANCHORS, BY HILTI FERROSCAN, GPR, X-RAY, CHIPPING OR OTHER MEANS UNLESS IT IS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT.
    F. DRILL AND CLEAN HOLES IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
    G. SUBMIT SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW TO THE ENGINEER-OF-RECORD PRIOR TO USE ALONG WITH:
        1. PROVIDE CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
        2. PROVIDE CALCULATIONS THAT DEMONSTRATE THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.
        3. INCLUDE CONSIDERATION OF CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE IN SUBSTITUTION REQUEST.
        4. EVALUATION OF SUBSTITUTIONS WILL BE BASED ON THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS.
2. CONCRETE ANCHORS
    A. MEDIUM DUTY MECHANICAL ANCHORS FOR USE IN CRACKED AND UN-CRACKED CONCRETE THAT HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. PRE-APPROVED MECHANICAL ANCHORS INCLUDE:
        1. HILTI "KWIK BOLT-TZ2" EXPANSION ANCHORS (ICC ESR-4266)
        2. HILTI "KWIK HUS-EZ" AND "KWIK HUS EZ-I" SCREW ANCHORS (ICC ESR-3027)
        3. SIMPSON STRONG-TIE “TITEN-HD” (ICC-ES ESR-2713)
        4. SIMPSON STRONG-TIE “STRONG-BOLT 2” (ICC-ES ESR-3037)
        5. DEWALT "POWER-STUD + SD2" (ICC-ES-ESR 2502.
        6. DEWALT "SCREW-BOLT +" (ICC-ES-ESR 3889)
    B. HEAVY DUTY MECHANICAL ANCHORS FOR CRACKED AND UN-CRACKED CONCRETE USE:
        1. HILTI "HDA" (ICC-ES ESR 1546)
        2. HILTI "HSL-3" (ICC-ES ESR 1545)
        3. SIMPSON STRONG-TIE "TORQ-CUT" (ICC-ES ESR-2705)
        4. DEWALT "ATOMIC +" (ICC-ES-ESR 3067)
    C. ADHESIVE ANCHORS FOR USE IN CRACKED AND UN-CRACKED CONCRETE THAT HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC308. THE DESIGNED BOND STRENGTH ASSUMES: 2500 PSI DRY, CRACKED NORMAL WEIGHT CONCRETE; ACI 355.4 TEMPERATURE CATEGORY B; HOLES DRILLED USING CARBIDE DRILL BITAND CLEANED FOLLOWING MPII. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:
        1. HILTI "HIT-HY 200-V3" SAFE SET SYSTEM WITH HILTI HIT-Z ROD (ICC-ES ESR-4868)
        2. HILTI "HIT-RE 500-V3" EPOXY ADHESIVE ANCHORING SYSTEM WITH HAS-E THREADED ROD (ICC-ES ESR-3814) FOR SLOW CURE APPLICATIONS
        3. SIMPSON STRONG-TIE "SET-3G" (ICC-ES ESR-4057)
        4. DEWALT "PURE 110 +" STANDARD CURE EPOXY (ICC-ES-ESR 3298)
        5. DEWALT "AC200 + " FAST CURE / COLD WEATHER (ICC-ES-ESR 4027)
        PROVIDE STEEL ANCHOR ELEMENT CONSISTING OF CONTINUOUSLY THREADED CONFORMING TO ASTM, A36 OR ASTM F 1554, GRADE 36.
2. MASONRY ANCHORS
    A. ANCHORAGE TO SOLID-GROUTED CONCRETE MASONRY
        1. MECHANICAL AND CONCRETE SCREW ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC01 OR AC106, RESPECTIVELY. PRE-APPROVED MECHANICAL AND CONCRETE SCREW ANCHORS INCLUDE:
        a. SIMPSON STRONG-TIE “STRONG BOLT2” (IAMPO UES ER-265)
        b. SIMPSON STRONG-TIE “TITEN-HD” (ICC-ES ESR-1056)
        c. HILTI "KWIK HUS-EZ" SCREW ANCHOR (ICC-ES ESR-3056)
        d. HILTI KWIK BOLT-TZ2 EXPANSION ANCHORS (ICC ESR-4266)
        e. DEWALT "SCREW-BOLT +" (ICC-ES-ESR 4042)
        f. DEWALT "POWER-STUD + SD1" (ICC-ES-ESR 2966)
    B. ADHESIVE ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC58. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:
        a. SIMPSON STRONG-TIE “SET-XP” (ICC-ES ESR-1772)
        b. HILTI "HIT-HY 270" MASONRY ADHESIVE ANCHORING SYSTEM (ICC-ES ESR-4143).
        c. DEWALT "AC100 + GOLD" (ICC-ES-ESR 3200)
        PROVIDE STEEL ANCHOR ELEMENT CONSISTING OF CONTINUOUSLY THREADED ROD CONFORMING TO ASTM, A36 OR ASTM F 1554, GRADE 36.
    C. ANCHORAGE TO HOLLOW CONCRETE MASONRY/UNREINFORCED CLAY BRICK MASONRY:
        1. SCREW ANCHORS FOR USE IN HOLLOW CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC106. PRE-APPROVED SCREW ANCHORS INCLUDE:
        a. SIMPSON STRONG-TIE “TITEN-HD” (ICC-ES ESR-1056)
        b. HILTI KWIK "HUS-EZ" SCREW ANCHOR (ICC-ES ESR-3056)
        c. DEWALT "AC100 + GOLD" (ICC-ES ESR-4105)
        1. ADHESIVE ANCHORS WITH SCREEN TUBES THAT ARE TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC58 OR AC60, AS APPROPRIATE. USE THE APPROPRIATE SCREEN TUBE AS RECOMMENDED BY THE ADHESIVE MANUFACTURER. PRE-APPROVED ADHESIVE ANCHORS WITH SCREEN TUBES INCLUDE:
        a. SIMPSON STONG-TIE “SET-XP” (IAMPO UES ER-265)
        b. SIMPSON STRONG-TIE “ACRYLIC-TIE” (ICC-ES ER-5791)
        c. SIMPSON STRONG-TIE “ET” (ICC-ES ER-4945)
        d. HILTI "HIT-HY 270" MASONRY ADHESIVE ANCHORING SYSTEM (ICC-ES ESR-4143)
        e. DEWALT "AC100 + GOLD" (ICC-ES ESR-3200)
        PROVIDE STEEL ANCHOR ELEMENT CONSISTING OF CONTINUOUSLY THREADED ROD.
4. CONCRETE TO HAVE A MINIMUM AGE OF 21 DAYS PRIOR TO INSTALLATION OF ADHESIVE ANCHORS.

STEEL DECK:

1. PROVIDE STEEL FLOOR DECK CONFORMING TO THE FOLLOWING STANDARDS:
    A. STEEL DECK INSTITUTE (SDI):
        1. MANUAL FOR CONSTRUCTION WITH STEEL DECK, 3RD EDITION.
        2. DIAPHRAGM DESIGN MANUAL, 4TH EDITION.
        3. COSP-2017 CODE OF STANDARD PRACTICE.
        4. MANUAL OFCONSTRUCTION WITH STEEL DECK, 3RD EDITION.
2. MATERIALS:
    A. SHEET STEEL: ASTM A653, GRADE 33 STRUCTURAL QUALITY; WITH G90 GALVANIZED COATING DESIGNATION CONFORMING TO ASTM A924.
    B. WELDING MATERIALS: AWS D1.1.
    C. TOUCH-UP PRIMER: ZINC CHROMATE TYPE.
3. FABRICATION:
    A. METAL DECKING: SHEET STEEL, CONFIGURED AS FOLLOWS UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS:
        1. MINIMUM METAL THICKNESS (EXCLUDING FINISH): 18 GAGE.
        2. NOMINAL HEIGHT: 2 INCH FLUTED PROFILE TO SDI.
        3. SIDE JOINTS: LAPPED
4. FLUTE SIDES: DIAGONALLY RIBBED FOR IMPROVED CONCRETE BOND
    A. METAL CLOSURE STRIPS, WET CONCRETE STOPS, COVER PLATES, AND RELATED ACCESSORIES: 20 GAGE, GALVANIZED SHEET STEEL, OF PROFILE AND SIZE AS INDICATED.
5. INSTALLATION:
    A. ERECT METAL DECKING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
    B. BEAR DECKING ON STEEL SUPPORTS WITH 1½ INCH MINIMUM BEARING. ALIGN AND LEVEL.
    C. WELDED CONNECTIONS:
        1. WHERE WELDING WASHERS ARE NOT USED PROVIDE A MINIMUM VISIBLE DIAMETER ARC PUDDLE WELD.
        2. PENETRATE ALL LAYERS OF STEEL DECK MATERIAL AT END LAPS.
        3. PROVIDE WELD WITH GOOD FUSION INTO SUPPORTING MEMBERS.
    D. DECK ANCHORAGE TO SUPPORTING MEMBERS:
        1. WELD IN ACCORDANCE WITH AWS D1.1.
        2. INSTALL WELDS AT ALL EDGE RIBS PLUS A SUFFICIENT NUMBER TO PROVIDE A MAXIMUM AVERAGE SPACING OF 12 INCHES. DO NOT EXCEED A MAXIMUM SPACING OF 18 INCHES BETWEEN ADJACENT WELDS.
        3. REPLACE ANY CONNECTION THAT IS FOUND TO BE DEFECTIVE BEFORE THE CONCRETE IS PLACED.
    A. MECHANICALLY FASTEN MALE/FEMALE SIDE LAPS AT 24 INCHES ON CENTER MAXIMUM WITH #12 TEK SCREWS.
    B. REINFORCE STEEL DECK OPENINGS FROM 6 TO 18 INCHES IN SIZE WITH 2 X 2 X ¼ INCH STEEL ANGLES. PLACE ANGLES PERPENDICULAR TO FLUTES; EXTEND MINIMUM TWO FLUTES BEYOND EACH SIDE OF OPENING AND FUSION WELD OR MECHANICALLY ATTACH TO DECK AT EACH FLUTE.
    C. INSTALL SIX INCH MINIMUM WIDE SHEET STEEL COVER PLATES, OF SAME THICKNESS AS DECKING, WHERE DECK CHANGES DIRECTION. FUSION WELD 12 INCHES ON CENTER MAXIMUM.
    D. TO CONTAIN WET CONCRETE, INSTALL STOPS AT FLOOR EDGE UPTURNED TO TOP SURFACE OF SLAB. PROVIDE STOPS OF SUFFICIENT STRENGTH TO REMAIN STATIONARY WITHOUT DISTORTION.
    E. INSTALL SHEET STEEL CLOSURES AND ANGLE FLASHINGS TO CLOSE OPENINGS BETWEEN DECK AND WALLS, COLUMNS, AND OPENINGS.
    F. POSITION FLOOR DRAIN PANS WITH FLANGE BEARING ON TOP SURFACE OF DECK. FUSION WELD AT EACH DECK FLUTE. WELD STUD SHEAR CONNECTORS THROUGH STEEL DECK TO STRUCTURAL MEMBERS BELOW.
    G. IMMEDIATELY AFTER WELDING DECK AND OTHER METAL COMPONENTS IN POSITION:
        1. COAT WELDS, BURNED AREAS, AND DAMAGED SURFACE COATING, WITH TOUCH-UP PRIME PAINT.
        2. TOUCH UP GALVANIZED SURFACES WITH GALVANIZING REPAIR PAINT APPLIED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

MISCELLANEOUS SUBMITTALS:

COMPLETE SHOP DRAWINGS FOR CONSTRUCTION FOR CANOPIES, CAST STONE CONNECTIONS AND CURTAIN GLAZING WALL SYSTEMS SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS TO BE CONSTRUCTED. THESE SHOP DRAWINGS SHALL BE AVAILABLE AT THE JOB SITE DURING TIMES OF INSPECTION.

DESIGN LOADS:

1. LIVE LOADS:

		UNIFORM	CONCENTRATED
STAIR	=	100 PSF ON STAIR TREADS	300 LB. ON AREA OF 4 SQUARE INCHES.
ROOF	=	20 PSF	
STORAGE	=	125 PSF	
FUTURE SOLAR PANELS	=	5 PSF	

2. WIND DESIGN DATA:
    ULTIMATE WIND SPEED, V_{ULT} = 114 MPH
    NOMINAL DESIGN WIND SPEED, V_{ASD} = 88 MPH
    RISK CATEGORY = II
    WIND EXPOSURE = C
    INTERNAL PRESSURE COEFFICIENT = ±0.18
    COMPONENTS AND CLADDING PRESSURES = 1 & 2 / S0.2
3. ROOF SNOW LOADING:
    GROUND SNOW LOAD (P_G) = 30 PSF
    FLAT-ROOF SNOW LOAD (P_F) = 21 PSF
    SNOW EXPOSURE FACTOR (C_E) = 1.0
    SNOW LOAD IMPORTANCE FACTOR (I_S) = 1.0
    THERMAL FACTOR (C_T) = 1.0
    SNOW DRIFT AT ELEVATOR OVERRIDE = SEE 3 / S0.2
4. SEISMIC DESIGN DATA:
    RISK CATEGORY = II
    SEISMIC IMPORTANCE FACTOR (I_E) = 1.0
    MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS (S_S) = 0.233
    (S_1) = 0.057
    SITE CLASS = C
    DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS (S_{DS}) = 0.202
    (S_{D1}) = 0.057
    SEISMIC DESIGN CATEGORY = B
    BASIC SEISMIC FORCE RESISTING SYSTEM = STRUCTURAL STEEL SYSTEMS NOT SPECIFICALLY DESIGNED FOR SEISMIC RESISTANCE
    DESIGN BASE SHEAR = 91.9 KIPS
    SEISMIC RESPONSE COEFFICIENT (C_S) = 0.065
    RESPONSE MODIFICATION COEFFICIENT (R) = 3
    PROCEDURE USED = EQUIVALENT LATERAL FORCE PROCEDURE
5. FLOOD DESIGN DATA:
    FLOOD HAZARD ZONE DESIGNATION = X (UNSHADED)

FUTURE SOLAR PANEL ALLOWANCE:

1. BUILDING FRAMING HAS BEEN DESIGNED FOR A 5 PSF ADDITIONAL LOAD AT ROOF FOR POTENTIAL SOLAR PANELS.
2. NO MANUFACTURER'S LOADING HAS BEEN PROVIDED TO CONFIRM THE DESIGN OF THE STEEL DECK AND SUPPORTING MEMBERS FOR THE ADDITION OF SOLAR PANELS.
3. STEEL DECK AND SUPPORTING MEMBERS WILL NEED TO BE CONFIRMED FOR SOLAR PANEL MANUFACTURER'S ACTUAL LOADING, WHEN AVAILABLE, PRIOR TO PANEL INSTALLATION. 5 PSF ROOF ALLOWANCE MAY NOT BE ADEQUATE DEPENDING ON MANUFACTURER'S DESIGN LOAD CRITERIA.

JENNIFER ZABIK
097626
09/28/22

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ISSUE: FOR CONSTRUCTION
REVISIONS:

PROJECT NUMBER
201941

DATE
9-28-22

SHEET NUMBER
S0.1

0.2h = 7.1 ft　0.6h = 21.2 ft

Roof

Area	10 sf	25 sf	50 sf	100 sf
	Surface Pressure (psf)			
Negative Zone 1	-54.1	-49.3	-45.8	-42.2
Negative Zone 1'	-31.1	-31.1	-31.1	-31.1
Negative Zone 2	-71.3	-65.2	-60.7	-56.1
Negative Zone 3	-97.2	-85.1	-75.9	-66.7
Positive Zones 1 & 1'	16.0	16.0	16.0	16.0
Positive Zones 2 & 3	31.1	29.2	27.9	26.5
Overhang Zone 2	-66.1	-58.0	-51.9	-45.8
Overhang Zone 3	-92.0	-77.9	-67.2	-56.5

NOTES:
Negative Zone 3 = Zone 2 if parapet height ≥ 3 ft

Parapet

a = 4.2 ft

Parapet Face Pressure (psf)		10 sf	25 sf	50 sf
		Surface Pressure (psf)		
Windward				
	Zone 4	31.1	29.2	27.9
	Zone 5	31.1	29.2	27.9
Leeward				
	Zone 4	-71.3	-65.2	-60.7
	Zone 5	-97.2**	-85.1**	-75.9**

**If parapet height is ≥ 3 ft, leeward zone 5 pressure is equal to leeward zone 4 pressure

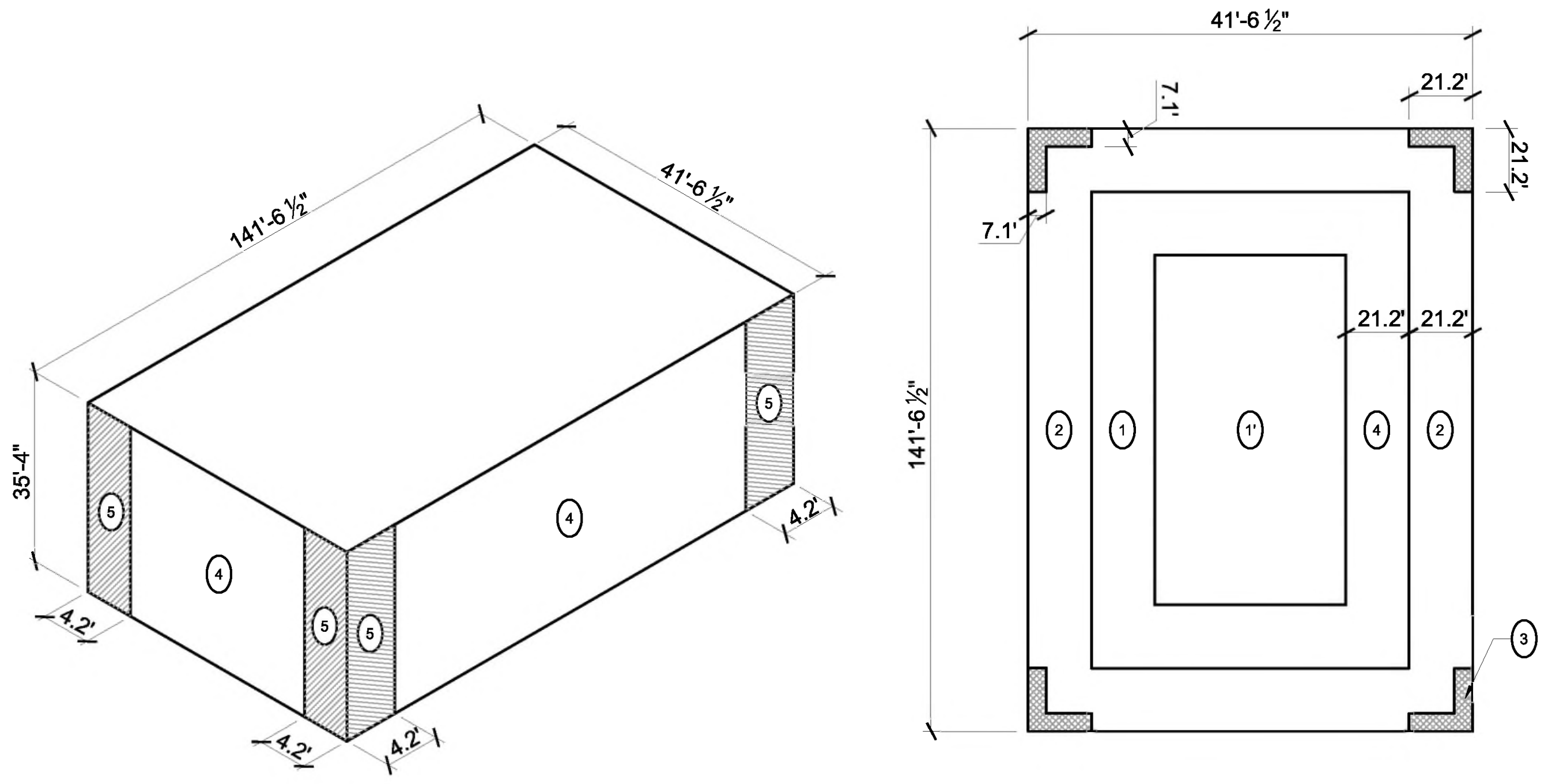
Walls

a = 4.2 ft

Area	10 sf	25 sf	50 sf	100 sf
	Surface Pressure (psf)			
Negative Zone 4	-33.6	-31.8	-30.4	-29.1
Negative Zone 5	-41.4	-37.8	-35.0	-32.3
Positive Zone 4 & 5	31.1	29.2	27.9	26.5

NOTES:
1. ROOF COMPONENTS AND CLADDING PRESSURES ARE "ULTIMATE" WIND LOADS AND SHALL BE USED IN CONJUNCTION WITH LOAD COMBINATIONS SPECIFIED IN SECTION 2.3 OF ASCE 7-16 (STRENGTH DESIGN).
2. FOR "SERVICE LEVEL" WIND LOADS THE PRESSURES SHALL BE MULTIPLIED BY 0.6 (ALLOWABLE STRESS DESIGN).

SCHEDULE OF COMPONENTS AND CLADDING WIND PRESSURES　1 / S0.2
SCALE: N.A.



WALLS　ROOF

NOTE:
FOR WIND PRESSURE, SEE SCHEDULE 1 / S0.02. NUMBERS INDICATE ZONES.

DIAGRAM OF COMPONENTS AND CLADDING WIND PRESSURES　2 / S0.02
SCALE: N.A.

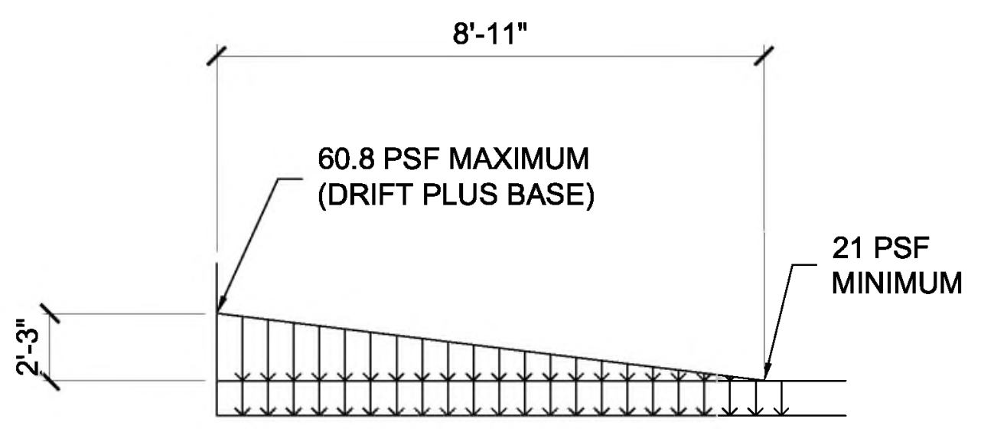


DIAGRAM OF SNOW DRIFT LOAD AT ELEVATOR OVERRIDE　3 / S0.2
SCALE: NONE

TENSION LAP SPLICE IN MASONRY (IN INCHES)

f'm	#3	#4	#5	#6	#7	#8	#9
1500 psi	18	24	30	36	42	48	54

NOTES:
1. IN ACCORDANCE WITH 2107.2 (2018 IBC).
2. FOR fy = 60,000 psi UNCOATED.
3. MINIMUM MASONRY COVER = 3 ½".

TABLE OF MASONRY REINFORCEMENT LAP SPLICE　4 / S0.2
SCALE: NONE

HEADER SCHEDULE

HEADER DESIGNATION	DESCRIPTION	JAMB	SILL TRACK (SEE NOTE 1)	NO. OF #12 SCREWS EACH END
DH4E	(2) 400 S 250 - 68 STUDS BOXED WITH 600T 200 - 54 TRACKS TOP AND BOTTOM. SEE DETAIL 7 / S4.2	(2) TYPICAL EXTERIOR STUDS SEE 7 / S4.2	-	8
DH10E	(2) 1000 S 250 - 68 STUDS BOXED WITH 600 T 200 - 54 TRACKS TOP AND BOTTOM. SEE DETAIL7 / S4.2	(2) TYPICAL EXTERIOR STUDS SEE 7 / S4.2	600 T 250 - 97	20
DH6	(2) 600 S 250 - 68 STUDS BACK-TO-BACK. SEE DETAIL 6 / S4.1	(2) TYPICAL INTERIOR STUDS SEE 4 / S4.1	-	12
DH8	(2) 800 S 250 - 97 STUDS BACK-TO-BACK. SEE DETAIL 6 / S4.1	(2) TYPICAL INTERIOR STUDS SEE 4 / S4.1	-	16
DH12	(2) 1200 S 250 - 97 STUDS BACK-TO-BACK. SEE DETAIL 6 / S4.1	(2) TYPICAL INTERIOR STUDS SEE 4 / S4.1	-	20
H6	600 S 250 - 68 STUD. SEE DETAIL 7 / S4.1	(1) TYPICAL INTERIOR STUD SEE 4 / S4.1	-	4
H10	1000 S 250 - 68 STUD. SEE DETAIL 7 / S4.1	(1) TYPICAL INTERIOR STUD SEE 4 / S4.1	-	6

NOTES:
1. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS WHERE SILL IS REQUIRED.

SCHEDULE OF HEADERS　5 / S0.2
SCALE: N.A.

COLD-FORMED STEEL MEMBER NAMING SYSTEM AND DEFINITIONS

DEPTH	MEMBER	FLANGE	[RETURN LIP]	THICKNESS (MILS)
250 (2 ½")	S (STUD)	137 (1 ⅜")	[⅜"]	33 (20 GAUGE)
350 (3 ½")	T (TRACK)	162 (1 ⅝")	[½"]	43 (18 GAUGE)
362 (3 ⅝")	Z (Z-PURLIN)	200 (2")	[⅝"]	54 (16 GAUGE)
400 (4")	F (HAT CHANNEL)	250 (2 ½")	[⅝"]	68 (14 GAUGE)
550 (5 ½")		300 (3")	[⅝"]	97 (12 GAUGE)
600 (6")				
800 (8")				
925 (9 ¼")				
1000 (10")				
1200 (12")				
1400 (14")				

EXAMPLES:

STUD	600 S 200 - 54
TRACK	400 T 250 - 33
Z - PURLIN	800 Z 200 - 68

SCHEDULE OF COLD FORMED MEMBERS　6 / S0.2
SCALE: NONE

COLD-FORMED STEEL CONNECTORS AND FASTENING SYSTEM DESCRIPTIONS AND DEFINITIONS

SELF DRILLING SCREWS

DRAWING DEFINITION	SIZING INFORMATION	PROVIDE SCREWS COMPLYING WITH ASTM C1513
#8	#8 - 18 x ¾" HWH	REFERENCE PUBLICATIONS
#10	#10 - 16 x ¾" HWH	ICC ESR - 3294 ELCO CONSTRUCTION PRODUCTS ICC ESR - 1976 ITW BUILDEX ICC ESR - 2169 HILTI, INC.
#12	#12 - 14 x 1" HWH	
#14	¼ - 14 x ⅞" HWH	

POWDER ACTUATED FASTENERS (PAF)

DRAWING DEFINITION	SHANK DIAMETER	MANUFACTURER'S MODEL		MINIMUM PENETRATION	REFERENCE PUBLICATIONS
		SIMPSON STRONG-TIE	HILTI		
0.145" Ø PAF	0.145"	PDP	X-U 15	1 ¼"	ICC ESR - 2269 HILTI (X-U) ICC ESR - 1663 HILTI (DS) ICC ESR - 2138 SIMPSON STRONG-TIE
0.177" Ø PAF	0.177"	PDPH	DS	1 ¼"	

SCHEDULE OF COLD FORMED STEEL CONNECTORS　7 / S0.2
SCALE: NONE

SHEAR WALL SCHEDULE

SHEAR WALL DESIGNATION	DESCRIPTION	END POST
△1	TYPICAL INTERIOR STUDS AT 5'-0" ON CENTER SHEATHED WITH 29 GAGE U-PANELS ON BOTH SIDES. SEE 1 / S4.1 AND 3A / S4.1 FOR WALL CONSTRUCTION.	(2) TYPICAL INTERIOR STUDS

NOTES:
1. 29 GAGE U-PANEL PROPERTIES: Ix (TOP) = 0.0151 IN^4 / FOOT, Ix (BOTTOM) = 0.0106 IN^4 / FOOT
   26 GAGE U-PANEL PROPERTIES: Ix (TOP) = 0.0223 IN^4 / FOOT, Ix (BOTTOM) = 0.0152 IN^4 / FOOT

SCHEDULE OF SHEAR WALLS　8 / S0.2
SCALE: N.A.

TENSION LAP SPLICE LENGTHS *(IN INCHES)*

UNCOATED BARS - NORMAL WEIGHT CONCRETE
- GRADE 60 BARS

BAR SIZE	LAP CLASS	4,000 psi CONCRETE			
		TOP BARS		OTHER BARS	
		CASE 1	CASE 2	CASE 1	CASE 2
#3	A	19	28	15	22
	B	24	36	19	28
#4	A	25	37	19	29
	B	32	48	25	37
#5	A	31	47	24	36
	B	40	60	31	47
#6	A	37	56	29	43
	B	48	72	37	56
#7	A	54	81	42	63
	B	70	106	54	81
#8	A	62	93	48	72
	B	80	121	62	93
#9	A	70	105	54	81
	B	91	136	70	105
#10	A	79	118	61	91
	B	102	153	79	118
#11	A	87	131	67	101
	B	113	170	87	131

NOTES:
1. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS. CASES 1 AND 2, WHICH DEPEND ON THE TYPE OF STRUCTURAL ELEMENT, CONCRETE COVER, AND THE CENTER TO CENTER SPACING OF THE BARS ARE DEFINED AS FOLLOWS:
2. BEAMS OR COLUMNS:
   CASE 1: COVER AT LEAST 1 BAR DIAMETER AND CTR. - CTR. SPACING AT LEAST 2 BAR DIAMETERS.
   CASE 2: COVER LESS THAN 1 BAR DIAMETER OR CTR. - CTR. SPACING LESS THAN 2 BAR DIAMETERS.
   ALL OTHERS:
   CASE 1: COVER AT LEAST 1 BAR DIAMETER AND CTR. - CTR. SPACING AT LEAST 3 BAR DIAMETERS.
   CASE 2: COVER LESS THAN 1 BAR DIAMETER OR CTR. - CTR. SPACING LESS THAN 3 BAR DIAMETERS.

TABLE OF CONCRETE REINFORCEMENT SPLICE LENGTHS　9 / S0.2
SCALE: NONE

COLUMN FOOTING SCHEDULE

MARK	F4.0	TS4	
SIZE	4'-0" x 4'-0"	4'-0" x 4'-0"	
DEPTH	1'-6"	2'-2"	
REINFORCEMENT	(6) #5 BOTTOM EACH WAY	(6) #5 TOP AND BOTTOM EACH WAY	
REMARKS	·	THICKENED SLAB FOOTING	

SCHEDULE OF COLUMN FOOTINGS　11 / S0.2
SCALE: N.A.

STEEL COLUMN SCHEDULE

MARK	C1	
ROOF		
SECOND FLOOR		
FIRST FLOOR	HSS 4 x 4 x 5⁄16	
LOWER LEVEL	⬠1	
BASE PLATE	¾ x 6 x 0'-10	
ANCHOR RODS	SEE 11 / S2.1	
REMARKS		

NOTES:
1. SEE DETAIL 10 / S2.1 FOR TYPICAL COLUMN BASE PLATE LAYOUT.

SCHEDULE OF STEEL COLUMNS　10 / S0.2
SCALE: N.A.

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ISSUE: FOR CONSTRUCTION
REVISIONS:

PROJECT NUMBER 201941
DATE 9-28-22

STATE OF NEW YORK
JENNIFER ZABIK
097826
LICENSED PROFESSIONAL ENGINEER
09/28/22

SHEET NUMBER
S0.2

SCHEDULE OF SPECIAL INSPECTION SERVICES

PROJECT

MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT			
		Y/N	EXTENT	AGENT*	DATE COMPLETED
1704.2 Inspection of Fabricators					
Verify fabrication/quality control procedures.	In-plant review (3)	Y	Periodic	1	
1705.1.1 Special Cases (work unusual in nature, including but not limited to alternative materials and systems, unusual design applications, materials and systems with special manufacturer's requirements)	Submittal review, shop (3) and/or field inspection	N			
1705.2 Steel Construction					
1. Fabricator and erector documents (Verify reports and certificates as listed in AISC 360, chapter N, paragraph 3.2 for compliance with construction documents)	Submittal Review	Y	Each submittal	1	
2. Material verification of structural steel	Shop (3) and field inspection	Y	Periodic	1	
3. Embedments (Verify diameter, grade, type, length, embedment. See 1705.3 for anchors)	Field inspection	Y	Periodic	1	
4. Verify member locations, braces, stiffeners, and application of joint details at each connection comply with construction documents	Field inspection	Y	Periodic	1	
5. Structural steel welding:					
a. Inspection tasks Prior to Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-1)	Shop (3) and field inspection	Y	Observe or Perform as noted (4)	1	
b. Inspection tasks During Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-2)	Shop (3) and field inspection	Y	Observe (4)	1	
c. Inspection tasks After Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-3)	Shop (3) and field inspection	Y	Observe or Perform as noted (4)	1	
d. Nondestructive testing (NDT) of welded joints: see Commentary					
1) Complete penetration groove welds $\frac{5}{16}$" or greater in *risk category* III or IV	Shop (3) or field Ultrasonic testing - 100%	N	Periodic		
2) Complete penetration groove welds $\frac{5}{16}$" or greater in *risk category* II	Shop (3) or field Ultrasonic testing - 10% of welds mimimum	N	Periodic		
3) Thermally cut surfaces of access holes when material t > 2"	Shop (3) or field magnetic Partical or Penetrant testing	N	Periodic		
4) Welded joints subject to fatigue when required by AISC 360, Appendix 3, Table A-3.1	Shop (3) or field radiographic or Ultrasonic testing	N	Periodic		
5) Fabricator's NDT reports when fabricator performs NDT	Verify reports	N	Each submittal (5)		
6. Structural steel bolting:	Shop (3) and field inspection				
a. Inspection tasks Prior to Bolting (Observe, or perform for each bolted connection, in accordance with QA tasks listed in AISC 360, Table N5.6-1)		Y	Observe or Perform as noted (4)	1	
b. Inspection tasks During Bolting (Observe the QA tasks listed in AISC 360, Table N5.6-2)		N	Observe (4)		
1) Pre-tensioned and slip-critical joints		·			
a) Turn-of-nut with matching markings		·	Periodic		
b) Direct tension indicator		·	Periodic		
c) Twist-off type tension control bolt		·	Periodic		
d) Turn-of-nut without matching markings		·	Continuous		
e) Calibrated wrench		·	Continuous		
2) Snug-tight joints		Y	Periodic	1	
c. Inspection tasks After Bolting (Perform tasks for each bolted connection in accordance with QA tasks listed in AISC 360, Table N5.6-3)		Y	Perform (4)	1	
7. Inspection of steel elements of composite construction prior to concrete placement in accordance with QA tasks listed in AISC 360, Table N6.1	Shop (3) and field inspection and testing	N	Observe or Perform as noted (4)		
1705.2.2 Steel Construction Other Than Structural Steel					
1. Material verification of cold-formed steel deck:					
a. Identification markings	Field inspection	Y	Periodic	1	
b. Manufacturer's certified test reports	Submittal review	Y	Each submittal	1	
2. Connection of cold-formed steel deck to supporting structure:	Shop (3) and field inspection				
a. Welding		N	Periodic		
b. Other fasteners (in accordance with AISC 360, Section N6)					
1) Verify fasteners are in conformance with approved submittal		Y	Periodic	1	
2) Verify fasteners installation is in conformance with approved submittal and manufacturer's recommendations		Y	Periodic	1	
3. Reinforcing steel	Shop (3) and field inspection				
a. Verification of weldability of steel other than ASTM A706		N	Periodic		
b. Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, boundary elements of special concrete structural walls and shear reinforcement		N	Continuous		
c. Shear reinforcement		N	Continuous		
d. Other reinforcing steel		Y	Periodic	1	
4. Cold-formed steel trusses spanning 60 feet or greater					
a. Verify temporary and permanent restraint/bracing are installed in accordance with the approved truss submittal package	Field inspection	N	Periodic		
1705.3 Concrete Construction					
1. Inspection of reinforcing steel installment (see 1705.2.2 for welding)	Shop (3) and field inspection	Y	Periodic	1	
2. Inspection of prestressing steel installation	Shop (3) and field inspection	N	Periodic		
3. Inspection of anchors cast in concrete where allowable loads have been increased per section 1908.5 or where strength design is used	Shop (3) and field inspection	N	Periodic		

SCHEDULE OF SPECIAL INSPECTION SERVICES

PROJECT

MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT			
		Y/N	EXTENT	AGENT*	DATE COMPLETED
4. Inspection of anchors and reinforcing steel post-installed in hardened concrete: Per research reports including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances,concrete embedment and tightening torque	Field inspection	Y	Periodic or as required by the research report issued by an approved source	1	
5. Verify use of approved design mix	Shop (3) and field inspection	Y	Periodic	1	
6. Fresh concrete sampling, perform slump and air content tests and determine temperature of concrete	Shop (3) and field inspection	Y	Continuous	1	
7. Inspection for concrete and shotcrete placement for proper application techniques	Shop (3) and field inspection	N	Continuous		
8. Inspection for maintenance of specified curing temperature and techniques	Shop (3) and field inspection	Y	Periodic	1	
9. Inspection of prestressed concrete:	Shop (3) and field inspection				
a. Application of prestressing force		N	Continuous		
b. Grouting of bonded prestressing tendons in seismic-force-resisting system		N	Continuous		
10. Erection of precast concrete members					
a. Inspect in accordance with construction documents	Field inspection	N	In accordance with construction documents		
b. Perform inspections of welding and bolting in accordance with Section 1705.2	Field inspection	N	In accordance with Section 1705.2		
11. Verification of in-situ concrete strength, prior to stressing of tendons in post tensioned concrete and prior to removal of shores and forms from beams and structural slabs	Review field testing and laboratory reports	N	Periodic		
12. Inspection of formwork for shape, lines, location and dimensions	Field inspection	Y	Periodic	1	
13. Concrete strength testing and verification of compliance with construction documents	Field testing and review of laboratory reports	Y	Periodic	1	
1705.4 Masonry Construction					
(A) Level A, B and C Quality Assurance:					
1. Verify compliance with approved submittals	Field inspection	Y	Periodic	1	
(B) Level B Quality Assurance:					
1. Verfication of f'm and f'_{AAC} prior to construction	Testing by unit strength method or prism test method	Y	Periodic	1	
(C) Level C Quality Assurance:					
1. Verfication of f'm and f'_{AAC} prior to construction and for every 5,000 SF during construction	Testing by unit strength method or prism test method	N	Periodic		
2. Verification of proportions of materials in premixed or preblended mortar, prestressing grout, and grout other than self-consolidating grout, as delivered to the project site	Field inspection	N	Continuous		
3. Verify placement of masonry units	Field inspection	N	Periodic		
(D) Levels B and C Quality Assurance:					
1. Verification of Slump Flow and Visual Stability Index (VSI) of self-consoldiating grout as delivered to the project	Field testing	Y	Continuous	1	
2. Verify compliance with approved submittals	Field inspection	Y	Periodic	1	
3. Verify proportions of site-mixed mortar, grout and prestressing grout for bonded tendons	Field inspection	N	Periodic		
4. Verify grade, type, and size of reinforcement and anchor bolts, and prestressing tendons and anchorages	Field inspection	N	Periodic		
5. Verify construction of mortar joints	Field inspection	Y	Periodic	1	
6. Verify placement of reinforcement, connectors, and prestressing tendons and anchorages	Field inspection	N	Level B - Periodic		
		N	Level C - Continuous		
7. Verify grout space prior to grouting	Field inspection	Y	Level B - Periodic	1	
		N	Level C - Continuous		
8. Verify placement of grout and prestressing grout for bonded tendons	Field inspection	N	Continuous		
9. Verify size and location of structural masonry elements	Field inspection	Y	Periodic	1	
10. Verify type, size, and location of anchors, including details of anchorage of masonry to structural members, frames, or other construction	Field inspection	Y	Level B - Periodic	1	
		N	Level C - Continuous		
11. Verify welding of reinforcement (see 1705.2.2)	Field inspection	N	Continuous		
12. Verify preparation, construction, and protestion of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F)	Field inspection	Y	Periodic	1	
13. Verify application and measurement of prestressing force	Field inspection	N	Continuous		
14. Verify placement of AAC masonry units and construction of thin-bed mortar joints (first 5000 SF of AAC masonry)	Field inspection	N	Continuous		
15. Verify placement of AAC masonry units and construction of thin-bed mortar joints (after the first 5000 SF of AAC masonry)	Field inspection	N	Level B - Periodic		
		N	Level C - Continuous		
16. Verify properties of thin-bed mortar for AAC masonry (first 5000 SF of AAC masonry)	Field inspection	N	Continuous		
17. Verify properties of thin-bed mortar for AAC masonry (after the first 5000 SF of AAC masonry)	Field inspection	N	Level B - Periodic		
		N	Level C - Continuous		
18. Prepare grout and mortar specimens	Field testing	Y	Level B - Periodic	1	
		N	Level C - Continuous		
19. Observe preparation of prisms	Field inspection	N	Level B - Periodic		
		N	Level C - Continuous		
1705.5 Wood Construction					
1. Inspection of the fabrication process of wood structural elements and assemblies in accordance with Section 1704.2.5	In-plat review (3)	N	Periodic		
2. For high-load diaphragms, verify grade and thickness of structural panel sheathing agree with approved building plans	Field inspection	N	Periodic		

SCHEDULE OF SPECIAL INSPECTION SERVICES

PROJECT

MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT			
		Y/N	EXTENT	AGENT*	DATE COMPLETED
3. For high-load diaphragms, verify nominal size of framing members at adjoining panel edges, nail or staple diameter and length, number of fastener lines, and that spacing between fasteners in each line and at edge margins agree with approved building plans	Field inspection	N	Periodic		
4. Metal-plate-connected wood trusses spanning 60 feet or greater: verify temporary and permanent restraint/bracing are installed in accordance with the approved truss submittal package	Field inspection	N	Periodic		
1705.6 Soils					
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	Field inspection	Y	Periodic	1	
2. Verify excavations are extended to proper depth and have reached proper material.	Field inspection	Y	Periodic	1	
3. Perform classification and testing of controlled fit materials.	Field inspection	Y	Periodic	1	
4. Verify use of proper materials, densities, and lift thicknesses during placement and compaction of controlled fill	Field inspection	Y	Continuous	1	
5. Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly	Field inspection	Y	Periodic	1	
1705.7 Driven Deep Foundations					
1. Verify element materials, sizes and lengths comply with requirements	Field inspection	N	Continuous		
2. Determine capacities of test elements and conduct additional load test, as required	Field inspection	N	Continuous		
3. Observe driving operations and maintain complete and accurate records for each element	Field inspection	N	Continuous		
4. Verify placement locations and plumbness, confirm type and size of hammer ,record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and document any damage to foundation element	Field inspection	N	Continuous		
5. For steel elements, perform additional inspections per Section 1705.2	See Section 1705.2	N	See Section 1705.2		
6. For concrete elements and concrete-filled elements, perform additional inspections per Section 1705.3	See Section 1705.3	N	See Section 1705.3		
7. For specialty elements, perform additional inspections as determined by the registered design professional in responsible charge	Field inspection	N	In accordance with construction documents		
8. Perform additional inspections and tests in accordance with the construction documents	Field inspection and testing	N	In accordance with construction documents		
1705.8 Cast-in-Place Deep Foundations					
1. Observe drilling operations and maintain complete and accurate records for each element	Field inspection	N	Continuous		
2. Verify placement locations and plumbness, confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end-bearing strata capacity. Record concrete or grout volumes	Field inspection	N	Continuous		
3. For concrete elements, perform additional inspections in accordance with Section 1705.3	See Section 1705.3	N	See Section 1705.3		
4. Perform additional inspections and tests in accordance with the construction documents	Field inspection and testing	N	In accordance with construction documents		
1705.9 Helical Pile Foundations					
1. Verify installation equipment, pile dimensions, tip elevations, final depth, final installation torque and other data is required	Field inspection	N	Continuous		
2. Perform additional inspections and tests in accordance with the construction documents	Field inspection and testing	N	In accordance with construction documents		
1705.10.1 Structural Wood Special Inspections For Wind Resistance					
1. Inspection of field gluing operations of elements of the main windforce-resisting system	Field inspection	N	Continuous		
2. Inspection of nailing, bolting, anchoring and other fastening of components within the main windforce-resisting system	Shop (3) and field inspection	N	Periodic		
1705.10.2 Cold-formed Steel Special Inspections For Wind Resistance					
1. Inspection during welding operations of elements of the main windforce-resisting system	Shop (3) and field inspection	N	Periodic		
2. Inspections for screw attachment, bolting, anchoring and other fastening of components within the main windforce-resisting system	Shop (3) and field inspection	N	Periodic		
1705.10.3 Wind-resisting Components					
1. Roof cladding	Shop (3) and field inspection	N	Periodic		
2. Wall cladding	Shop (3) and field inspection	N	Periodic		
1705.11.1 Structural Steel Special Inspections for Seismic Resistance					
Inspection of structural steel in accordance with AISC 341	Shop (3) and field inspection	N	In accordance with AISC 341		
1705.11.2 Structural Wood Special Inspections for Seismic Resistance					
1. Inspection of field gluing operations of elements of the seismic-force resisting system	Field inspection	N	Continuous		
2. Inspection of nailing, bolting, anchoring and other fastening of components within the seismic-force-resisting system	Shop (3) and field inspection	N	Periodic		
1705.11.3 Cold-formed Steel Light-Frame Construction Special Inspections for Seismic Resistance					
1. Inspection during welding operations of elements of the seismic-force-resisting system	Shop (3) and field inspection	N	Periodic		
2. Inspections for screw attachment, bolting, anchoring and other fastening of components within the seismic-force-resisting system	Shop (3) and field inspection	N	Periodic		
1705.11.4 Designated Seismic Systems Verification					
Inspect and verify that the component label, anchorage or mounting conforms to the certificate of compliance in accordance with Section 1705.12.3	Field inspection	N	Periodic		

SCHEDULE OF SPECIAL INSPECTION SERVICES

PROJECT

MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT			
		Y/N	EXTENT	AGENT*	DATE COMPLETED
1705.11.5 Architectural Components Special Inspections for Seismic Resistance					
1. Inspection during the erection and fastening of exterior cladding and interior and exterior veneer	Field inspection	N	Periodic		
2. Inspection during the erection and fastening of interior and exterior nonbearing walls	Field inspection	N	Periodic		
3. Inspection during anchorage of access floors	Field inspection	N	Periodic		
1705.11.6 Mechanical and Electrical Components Special Inspections for Seismic Resistance					
1. Inspection during anchorage of electrical equipment for emergency or standby power systems	Field inspection	N	Periodic		
2. Inspection during the anchorage of other electrical equipment	Field inspection	N	Periodic		
3. Inspection during installation and anchorage of piping systems designed to carry hazardous materials, and their associated mechanical units	Field inspection	N	Periodic		
4. Inspection during the installation and anchorage of HVAC ductwork that will contain hazardous materials	Field inspection	N	Periodic		
5. Inspection during the installation and anchorage of vibration isolation systems	Field inspection	N	Periodic		
1705.11.7 Storage Racks Special Inspection for Seismic Resistance					
Inspection during the anchorage of storage racks 8 feet or greater in height	Field inspection	N	Periodic		
1705.11.8 Seismic Isolation Systems					
Inspection during the fabrication and installation of isolator units and energy dissipation devices used as part of the seismic isolation system	Shop and field inspection	N	Periodic		
1705.12.1 Concrete Reinforcement Testing and Qualification for Seismic Resistance					
1. Review certified mill test reports for each shipment of reinforcement used to resist earthquake-induced flexural and axial forces in reinforced concrete special moment frames, special structural walls, and coupling beams connecting special structural walls	Review certified mill test reports	N	Each shipment		
2. Verify reinforcement weldability of ASTM A615 reinforcement used to resist earthquake-induced flexural and axial forces in reinforced concrete special moments frames, special structural walls, and coupling beams connecting special structural walls	Review test reports	N	Each shipment		
1705.12.2 Structural Steel Testing and Qualification for Seismic Resistance					
Test in accordance with the quality assurance requirements of AISC 341	Shop (3) and field testing	N	Per ASCE 7		
1705.12.3 Seismic Certification of Nonstructural Components					
Review certificate of compliance for designed seismic system components	Certificate of compliance review	N	Each submittal		
1705.12.4 Seismic Isolation Systems					
Test seismic isolation systems in accordance with ASCE 7, Section 17.8	Prototype testing	N	Per ASCE 7		
1705.13 Sprayed Fire-resistant Materials					
1. Verify surface condition preparation of structural members	Field inspection	N	Periodic		
2. Verify application of sprayed fire-resistant materials	Field inspection	N	Periodic		
3.Verify average thickness of sprayed fire-resistant materials applied to structural members	Field inspection	N	Periodic		
4. Verify density of sprayed fire-resistant material complies with approved fire-resistant design	Field inspection and testing	N	Per IBC Section 1705.13.5		
5. Verify the cohesive/adhesive bond strength of the cured sprayed fire-resistant material	Field inspection and testing	N	Per IBC Section 1705.13.6		
1705.14 Mastic and Intumescent Fire-resistant Coatings					
Inspect mastic and intumescent fire-resistant coatings applied to structural elements and decks	Field inspection	N	Periodic		
1705.15 Exterior Insulation and Finish Systems (EIFS)					
1.Verify materials, details and installations are per the approved construction documents	Field inspection	N	Periodic		
2. Inspection of water-resistive barrier over sheathing substrate	Field inspection	Y	Periodic	1	
1705.16 Fire-resistant Penetrations and Joints					
1. Inspect penetration firestop	Field testing	Y	Per ASTM E2174	1	
2. Inspect fire-resistant joint systems	Field testing	Y	Per ASTM E2393	1	
1705.17 Smoke Control Systems					
1. Leakage testing and recording of device locations prior to concealment	Field testing	N	Periodic		
2. Prior to occupancy and after sufficient completion, pressure difference testing, flow measurements, and detection and control vertification	Field testing	N	Periodic		

* INSPECTION AGENTS	FIRM	ADDRESS	TELEPHONE NO.
1. Materials testing laboratory to be determined.			
2.			
3.			
4.			

Notes:
1. *The inspection and testing agent(s) shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official prior to commencing work. The qualifications of the Special Inspector(s) and/or testing agencies may be subject to the approval of the Building Official and/or the Design Professional.*
2. *The list of Special Inspectors may be submitted as a separate document, if noted so above.*
3. *Special Inspections as required by Section 1704.2.5 are not required where the fabricator is approved in accordance with IBC Section 1704.2.5.2.*
4. *Observe on a random basis, operations need not be delayed pending these inspections. Perform these tasks on each welded joint, bolted connection, or steel element.*
5. *NDT of welds competed in an approved fabricator's shop may be performed by that fabricator when approved by the AHJ. Refer to AISC 360, N7.*

Encircle "Yes" or "No" as appropriate and date this document below:

Are Requirements for Seismic Resistance included in the Statement of Special Inspections? Yes [✓ No]

Are Requirements for Wind Resistance included in the Statement of Special Inspections? Yes [✓ No]

DATE: 9-28-2022

JENNIFER ZABIK
097626
LICENSED PROFESSIONAL ENGINEER
09/28/22

ZABIK TURNER ENGINEERING

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Self Storage Phase II

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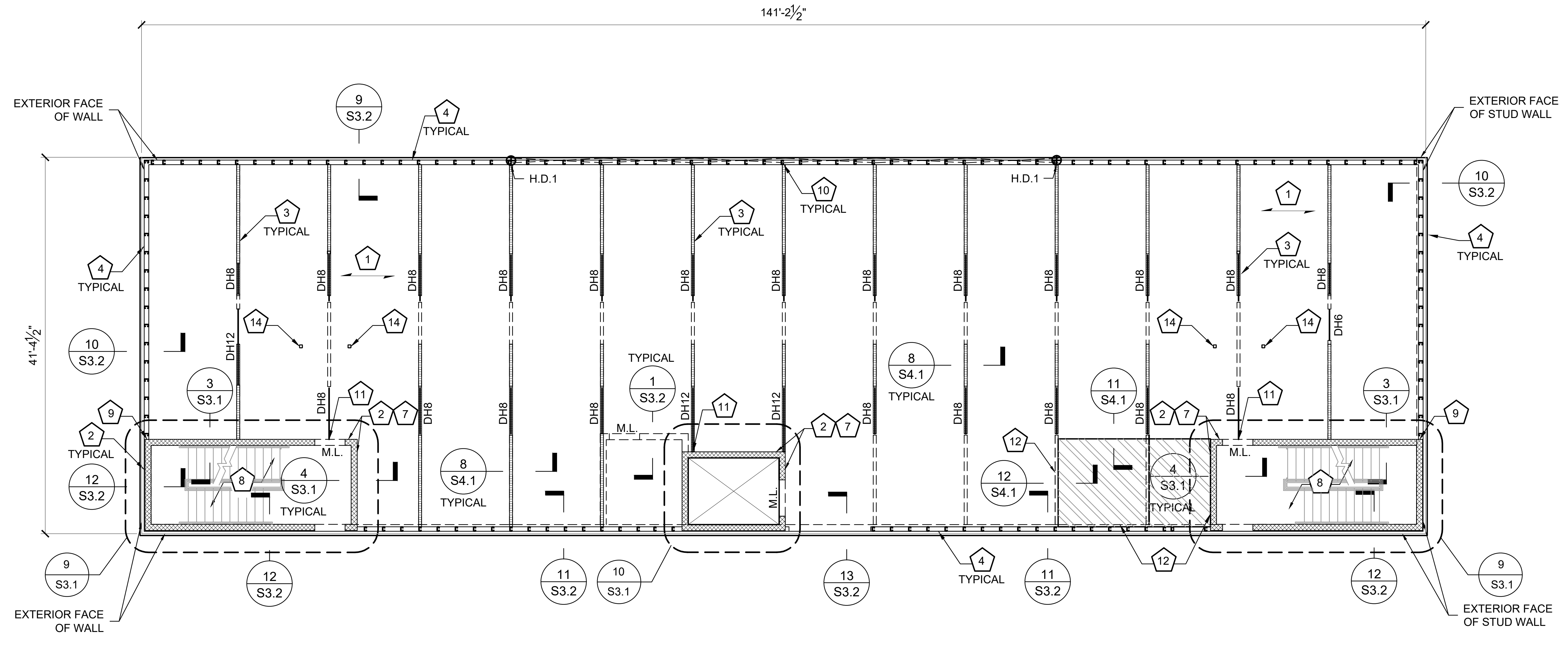
ISSUE: FOR CONSTRUCTION
REVISIONS:

PROJECT NUMBER
201941

DATE
9-28-22

SHEET NUMBER
S0.3



FIRST FLOOR FRAMING PLAN

SCALE: ⅛" = 1'-0" FINISHED FLOOR EL. = 0'-0"

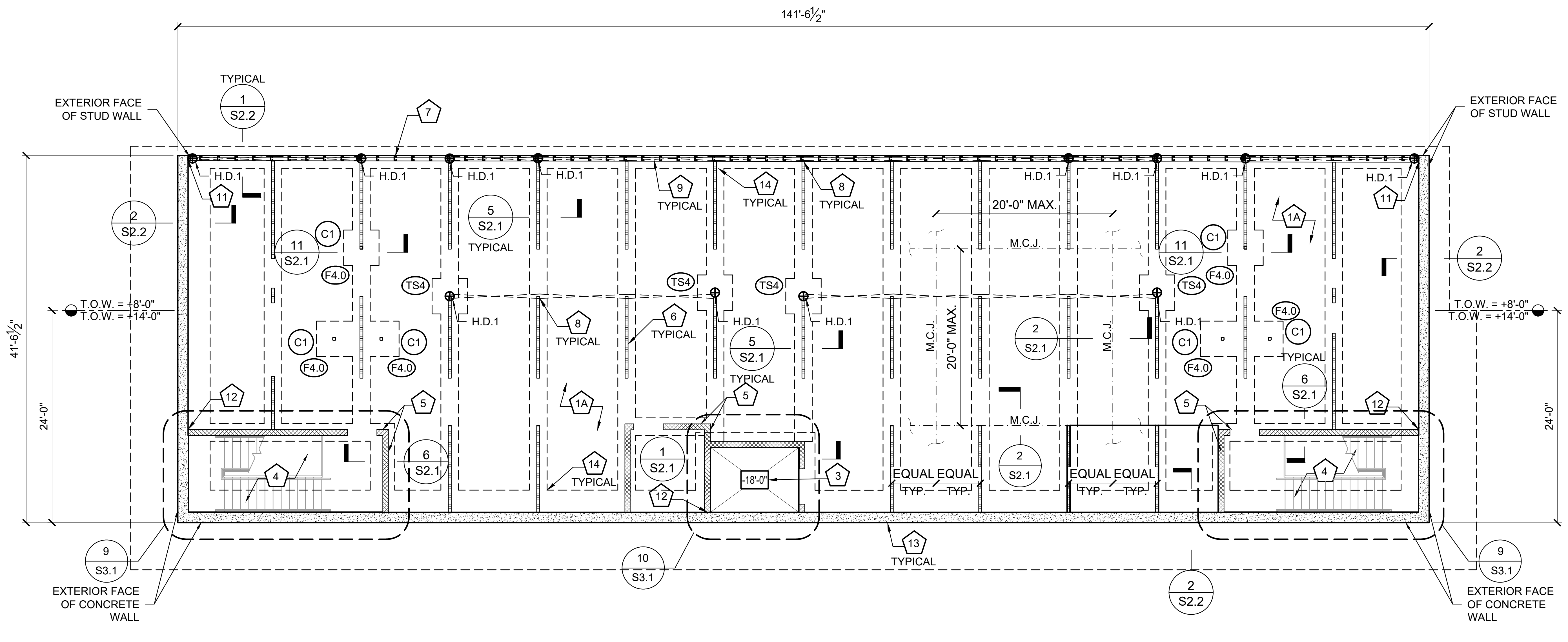
2 / S1.1

FIRST FLOOR FRAMING PLAN LEGEND:

⬠1	INDICATES NOTE REFERRAL. SEE CORRESPONDING PLAN NOTE.
▥	INDICATES 4" INTERIOR STUD WALLS. SEE NOTE 3.
▭	INDICATES 6" EXTERIOR STUD WALLS. SEE NOTE 4.
▩	INDICATES 8" CMU WALLS. SEE NOTE 2.
M.L.	INDICATES MASONRY LINTEL OVER WALL OPENING BELOW. SEE LINTEL SCHEDULE ON SHEET S3.1.
DHXX	INDICATES HEADERS OVER WALL OPENING BELOW. SEE NOTE 5.
⌐ ‒ ¬	INDICATES INTERIOR WALLS BELOW.
↔	INDICATES SPAN OF FLOOR SLAB SYSTEM. SEE NOTE 1.
▧	INDICATES CHANGE IN SLAB DEPTH TO 4 ½" (TOTAL SLAB DEPTH = 6 ½"). SEE DETAILS 11 & 12 / S4.1.
><	INDICATES X-BRACING. ALL X-BRACING SHOWN ON PLAN IS FROM THIS LEVEL TO LEVEL ABOVE. SEE NOTE 13.
⊕ H.D.1	INDICATES SIMPSON STRONG-TIE HOLDDOWN S / HD10S AT NOTED LOCATIONS. SEE DETAIL 9 / S4.1.

FIRST FLOOR FRAMING PLAN NOTES:

1. FLOOR SLAB SYSTEM:
   - A. SLAB: 2 ½" NORMAL WEIGHT CONCRETE.
   - B. DECK: 2" - 18 GAGE COMPOSITE STEEL DECK (TOTAL SLAB DEPTH = 4 ½").
   - C. REINFORCEMENT: 6 x 6 - W1.4 x W1.4 WELDED WIRE REINFORCEMENT LOCATED 1 ½" BELOW TOP OF SLAB.
   - D. ATTACHMENT TO SUPPORTS: #12 SCREWS IN 36 / 4 FASTENER PATTERN.
   - E. SIDE LAP CONNECTION: (3) #10 SCREWS PER SPAN.
   - F. PERIMETER CONNECTION: #12 SCREWS @ 12" ON CENTER.
   - G. INSTALLATION CONFIGURATION: TWO SPAN MINIMUM.
2. 8" MASONRY WALLS:
   - A. WALL: 8" CMU.
   - B. WALL REINFORCEMENT: #5 @ 32 " ON CENTER.
   - C. REINFORCEMENT POSITION: CENTER IN MASONRY UNIT CELL IN EACH DIRECTION, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
   - D. HORIZONTAL REINFORCEMENT: #9 WIRE LADDER TYPE @ 16" ON CENTER.
   - E. SEE DETAILS ON SHEET S3.1 FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
3. 4" INTERIOR COLD FORMED STEEL WALLS:
   - A. STUDS: 400 S 250 - 68 STUDS @ 2'-6" ON CENTER IN 400 T 250 - 68 TOP AND BOTTOM TRACK. SHEATHING: 26 GAGE U-PANELS BOTH SIDES UNLESS NOTED OTHERWISE. SEE SHEAR WALL SCHEDULE FOR U-PANEL SECTION PROPERTIES.
   - B. SEE DETAIL 1 / S4.1 & 3B / S4.1 FOR TYPICAL INTERIOR WALL CONSTRUCTION.
   - C. HAT CHANNEL BRACING: INSTALL CONTINUOUS 20 GA. HAT CHANNELS ON OPPOSITE SIDE OF STUDS @ MID-POINT OF SPAN UNLESS U-PANEL IS ON BOTH SIDES OF THE STUD, SEE PLAN. SEE 1 / S4.1 FOR HAT CHANNEL SECTION PROPERTIES.
4. 6" EXTERIOR COLD FORMED STEEL WALLS:
   - A. STUDS: 600 S250 - 68 STUDS @ 2'-0" ON CENTER IN 600 T 250 - 68 TOP AND BOTTOM TRACK.
   - B. SHEATHING: SHEATH INTERIOR FACE WITH WITH 29 GAGE U-PANELS. SEE SHEAR WALL SCHEDULE FOR U-PANEL SECTION PROPERTIES.
   - C. SEE DETAIL 2 / S4.1 FOR TYPICAL EXTERIOR WALL CONSTRUCTION.
   - D. FLAT STRAP BRACING: INSTALL 2" X 18 GA. FLAT STRAP ON EXTERIOR FACE OF STUDS @ MID-POINT OF SPAN.
5. HEADERS OVER OPENINGS BELOW FIRST FLOOR: SEE HEADER SCHEDULE ON 5 / S0.2.
6. DOUBLE STUDS UNDER ALL DOUBLE STUDS FROM LEVEL ABOVE. SEE ELEVATION 4 / S4.1 FOR BACK TO BACK FASTENING REQUIRES OF DOUBLE STUDS.
7. LEDGE ANGLE. SEE DETAIL 4 / S3.1.
8. STAIR DESIGN BY SPECIALTY ENGINEER. PROVIDE FULLY GROUTED CELLS AT ALL STAIR HANDRAIL LOCATIONS.
9. ATTACH STUDS TO CMU WITH (2) ¼" Ø x 1 ¾" MASONRY SCREWS AT 2'-0" o.c.
10. SEE DETAIL 5B / S4.1 FOR NON-LOAD-BEARING X-BRACED WALL INTERSECTION WITH LOAD-BEARING WALL.
11. SEE DETAIL 5 / S3.2 FOR HEADER CONNECTION TO MASONRY WALL.
12. DECK BEARING IS 2" LOWER THAN TYPICAL BEARING AT THESE WALLS.
13. 6" x 14 GAGE STRAPS EACH SIDE OF TYPICAL EXTERIOR STUDS @ 2'-0" ON CENTER SEE DETAIL 9 / S2.1 FOR CONNECTION AT HOLDDOWN AND 8 / S2.1 FOR TOP AND BOTTOM STRAP CONNECTIONS.
14. PROVIDE L3 x 3 x ⁵⁄₁₆ DECK SUPPORT ANGLE TO COLUMN FACE ON EACH SIDE.
15. ALL EXTERIOR DIMENSIONS ARE TO THE NOMINAL FACE OF EXTERIOR STUD WALL.
16. SEE ARCHITECTURAL DRAWINGS FOR INTERIOR WALLS, DOOR, DOOR SIZES AND LOCATIONS.



LOWER LEVEL / FOUNDATION PLAN

SCALE: ⅛" = 1'-0" FINISHED FLOOR EL. = -14'-0"

1 / S1.1

LOWER LEVEL / FOUNDATION PLAN LEGEND:

⬠1	INDICATES NOTE REFERRAL. SEE CORRESPONDING PLAN NOTE.
-18'-0"	INDICATES TOP OF FOOTING ELEVATION RELATIVE TO FINISHED FLOOR ELEVATION = -14'-0".
S.C.J.	INDICATES SLAB CONTRACTION JOINT. SEE PLAN NOTE 1C.
▥	INDICATES 6" INTERIOR STUD WALLS. SEE NOTE 6.
▭	INDICATES 6" EXTERIOR STUD WALLS. SEE NOTE 7.
▩	INDICATES 8" CMU WALLS. SEE NOTE 5.
><	INDICATES X-BRACING. ALL X-BRACING SHOWN ON PLAN IS FROM THIS LEVEL TO LEVEL ABOVE. SEE NOTE 9.
	INDICATES SIMPSON STRONG-TIE S/HDU15S AT NOTED LOCATIONS. SEE DETAIL 7 / S2.1.
S	INDICATES STEP IN FOOTING. SEE DETAIL 8 / S2.2.
T.O.W.	INDICATES TOP OF WALL ELEVATION AT STEP.
⊕ H.D.1	INDICATES SIMPSON STRONG-TIE HOLDDOWN S / HD10S AT NOTED LOCATIONS. SEE DETAIL 7 / S2.1.
TS4	INDICATES THICKENED SLAB. SEE FOOTING SCHEDULE ON 10 / S0.2.
F4.0	INDICATES FOOTING. SEE FOOTING SCHEDULE ON 10 / S0.2.
C1	INDICATES COLUMN. SEE COLUMN SCHEDULE ON 11 / S0.2.

LOWER LEVEL / FOUNDATION PLAN NOTES:

1. SLAB-ON-GRADE:
   - A. SLAB: 5" THICK (F'_C = 4000 PSI).
   - B. REINFORCEMENT: 6 x 6 - W2.9 x W2.9 WELDED WIRE REINFORCEMENT 1 ½" BELOW TOP OF SLAB.
   - C. CONTRACTION JOINTS: SEE REINFORCED CONCRETE NOTE #17 ON SHEET S0.1 FOR CONSTRUCTION OR CONTRACTION JOINT REQUIREMENTS. SEE DETAILS 2 / S2.1 AND 3 / S2.1.

   DO NOT SAW CUT SLAB AT COLUMN OR LOAD BEARING STUD LOCATIONS.
2. BUILDING FOUNDATION SUB-GRADE TO BE PER REFERENCED GEOTECHNICAL REPORT. COORDINATE PLACEMENT AND COMPACTION REQUIREMENTS WITH GEOTECHNICAL REPORT. COORDINATE VAPOR BARRIER REQUIREMENTS WITH ARCHITECTURAL DRAWINGS.
3. GENERAL CONTRACTOR TO VERIFY ELEVATOR PIT DEPTH REQUIREMENTS WITH ELEVATOR MANUFACTURER PRIOR TO PIT EXCAVATION AND MODIFY AS NECESSARY IF DIFFERENT THAN DEPTH SHOWN ON PLAN.
4. STAIR DESIGN BY SPECIALTY ENGINEER. SPECIALTY ENGINEER TO PROIVIDE CALCULATIONS FOR GROUTED AND UNGROUTED CELL CONDITIONS AT STAIR HANDRAIL LOCATIONS.
5. 8" MASONRY WALLS:
   - A. WALL: 8" CMU.
   - B. WALL REINFORCEMENT: #5 @ 32" ON CENTER.
   - C. REINFORCEMENT POSITION: CENTER IN MASONRY UNIT CELL IN EACH DIRECTION, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
   - D. HORIZONTAL REINFORCEMENT: #9 WIRE LADDER TYPE @ 16" ON CENTER.
   - E. SEE DETAILS ON SHEET S3.1 FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
6. 6" INTERIOR COLD FORMED STEEL WALLS:
   - A. STUDS: 600 S 250 - 97 STUDS @ 2'-6" ON CENTER IN 600 T 250 - 68 TOP AND BOTTOM TRACK.
   - B. SHEATHING: 26 GAGE U-PANELS BOTH SIDES UNLESS NOTED OTHERWISE. SEE SHEAR WALL SCHEDULE FOR U-PANEL SECTION PROPERTIES.
   - C. SEE DETAIL 1 / S4.1 & 3B / S4.1 FOR TYPICAL INTERIOR WALL CONSTRUCTION.
   - D. HAT CHANNEL BRACING: INSTALL CONTINUOUS 20 GA. HAT CHANNELS ON OPPOSITE SIDE OF STUDS @ THIRD-POINTS OF SPAN. SEE 1 / S4.1 FOR HAT CHANNEL SECTION PROPERTIES.
7. 6" EXTERIOR COLD FORMED STEEL WALLS:
   - A. STUDS: 600 S250 - 68 STUDS @ 2'-0" ON CENTER IN 600 T 250 - 68 TOP AND BOTTOM TRACK.
   - B. SHEATHING: SHEATH INTERIOR FACE WITH WITH 26 GAGE U-PANELS. SEE SHEAR WALL SCHEDULE FOR U-PANEL SECTION PROPERTIES.
   - C. SEE DETAIL 2 / S4.1 FOR TYPICAL EXTERIOR WALL CONSTRUCTION.
   - D. FLAT STRAP BRACING: INSTALL 2" X 18 GA. FLAT STRAP ON EXTERIOR FACE OF STUDS @ MID-POINT OF SPAN.
8. SEE DETAIL 5B / S4.1 FOR NON-LOAD-BEARING X-BRACED WALL INTERSECTION WITH LOAD-BEARING WALL.
9. 6" x 14 GAGE STRAPS EACH SIDE OF TYPICAL EXTERIOR STUDS @ 2'-0" ON CENTER AND INTERIOR STUDS @ 2'-6 ON CENTER. SEE DETAIL 7 / S2.1 FOR CONNECTION AT HOLDDOWN AND 8 / S2.1 FOR TOP AND BOTTOM STRAP CONNECTIONS.
10. DOUBLE STUDS UNDER ALL DOUBLE STUDS FROM LEVEL ABOVE. SEE ELEVATION 4 / S4.1 FOR BACK TO BACK FASTENING REQUIRES OF DOUBLE STUDS.
11. ATTACH STUDS TO CONCRETE WALL WITH (2) ¼" Ø x 1 ¾" MASONRY SCREWS AT 2'-0" o.c.
12. SEE 7 / S2.2 FOR CMU WALL ATTACHMENT TO CONCRETE WALL.
13. GENERAL CONTRACTOR TO CONFIRM WITH GEOTECHNICAL ENGINEER THAT THE EXCAVATION TO INSTALL THE CONCRETE CANTILEVER WALL COULD BE SLOPED AND THAT THE SLOPE COULD BE MAINTAINED DURING CONSTRUCTION. THE NEED OF EXCAVATION SUPPORT AND THE EFFECT THE EXCAVATION COULD HAVE TO THE STABILITY OF THE FOUNDATIONS OF THE ADJACENT EXISTING BUILDING SHALL BE EVALUATED BY THE GEOTECHNICAL ENGINEER PRIOR TO INSTALLING THE CONCRETE CANTILEVER WALL.
14. PROVIDE CORNER BARS AT ALL INTERSECTIONS OF THICKENED SLAB WALL FOOTINGS TO EXTERIOR WALL FOOTINGS. SEE REINFORCED CONCRETE NOTE #16 SHEET S0.1.
15. ALL EXTERIOR DIMENSIONS ARE TO THE NOMINAL FACE OF STUD.
16. SEE ARCHITECTURAL DRAWINGS FOR INTERIOR WALLS, DOOR, DOOR SIZES AND LOCATIONS.
17. SEE ARCHITECTURAL DRAWINGS FOR BUILDING ORIENTATION, LOCATION AND SIDEWALK LOCATIONS.

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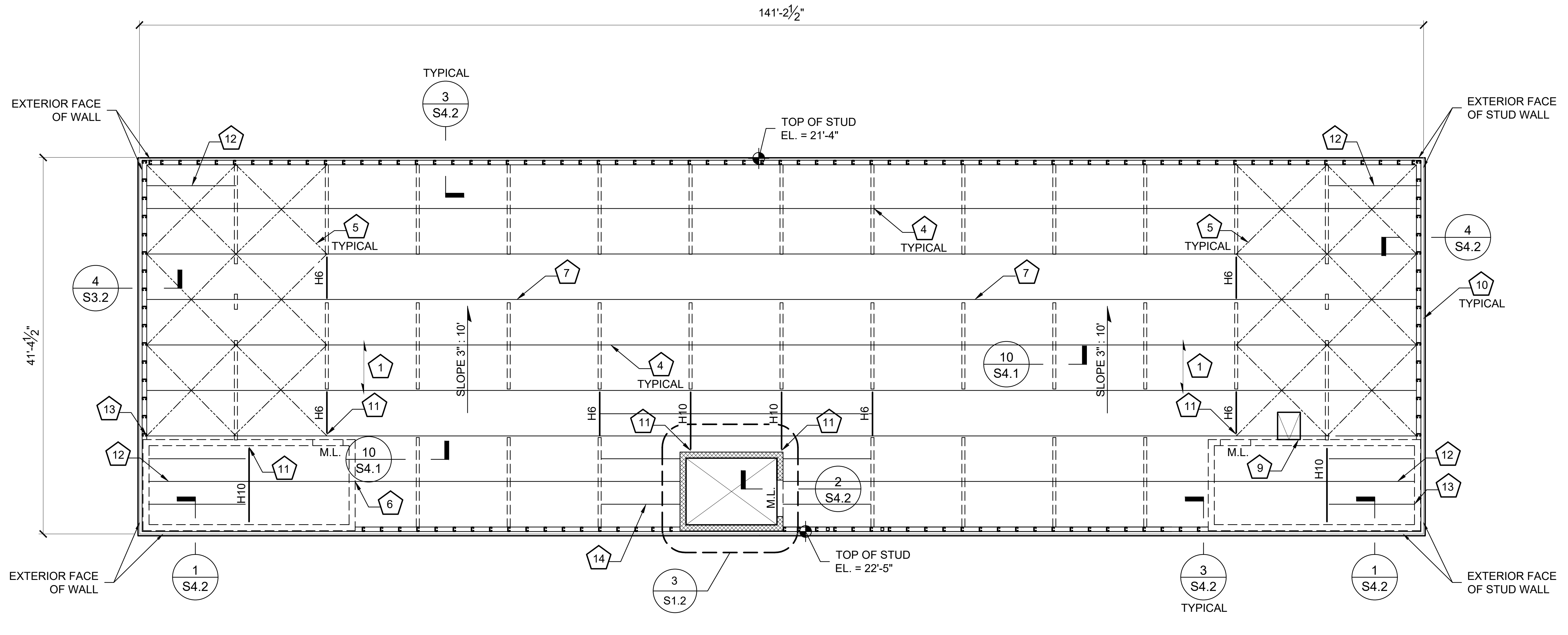


ROOF FRAMING FRAMING PLAN

2 / S1.2

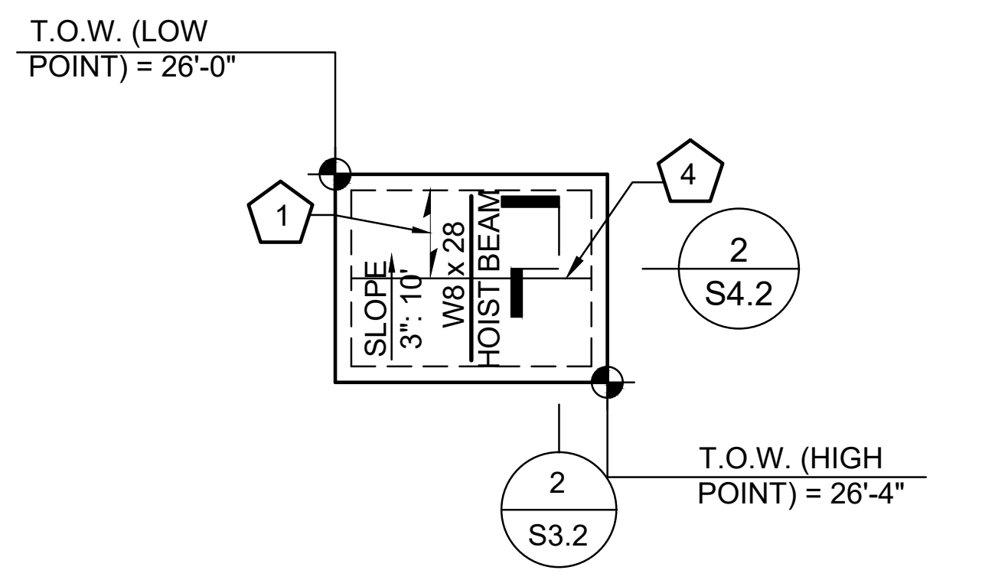
SCALE: ⅛" = 1'-0"

ROOF FRAMING PLAN LEGEND:

⬠ 1	INDICATES NOTE REFERRAL. SEE CORRESPONDING PLAN NOTE.
⟷	INDICATES SPAN OF ROOF DECK SYSTEM. SEE NOTE 1.
HXX	INDICATES HEADERS OVER WALL OPENING BELOW. SEE NOTE 8.
⊏ ⚋ ⊐	INDICATES INTERIOR WALLS BELOW.
╳	INDICATES STRAP BRACING. SEE NOTE 5.

ROOF FRAMING PLAN NOTES:

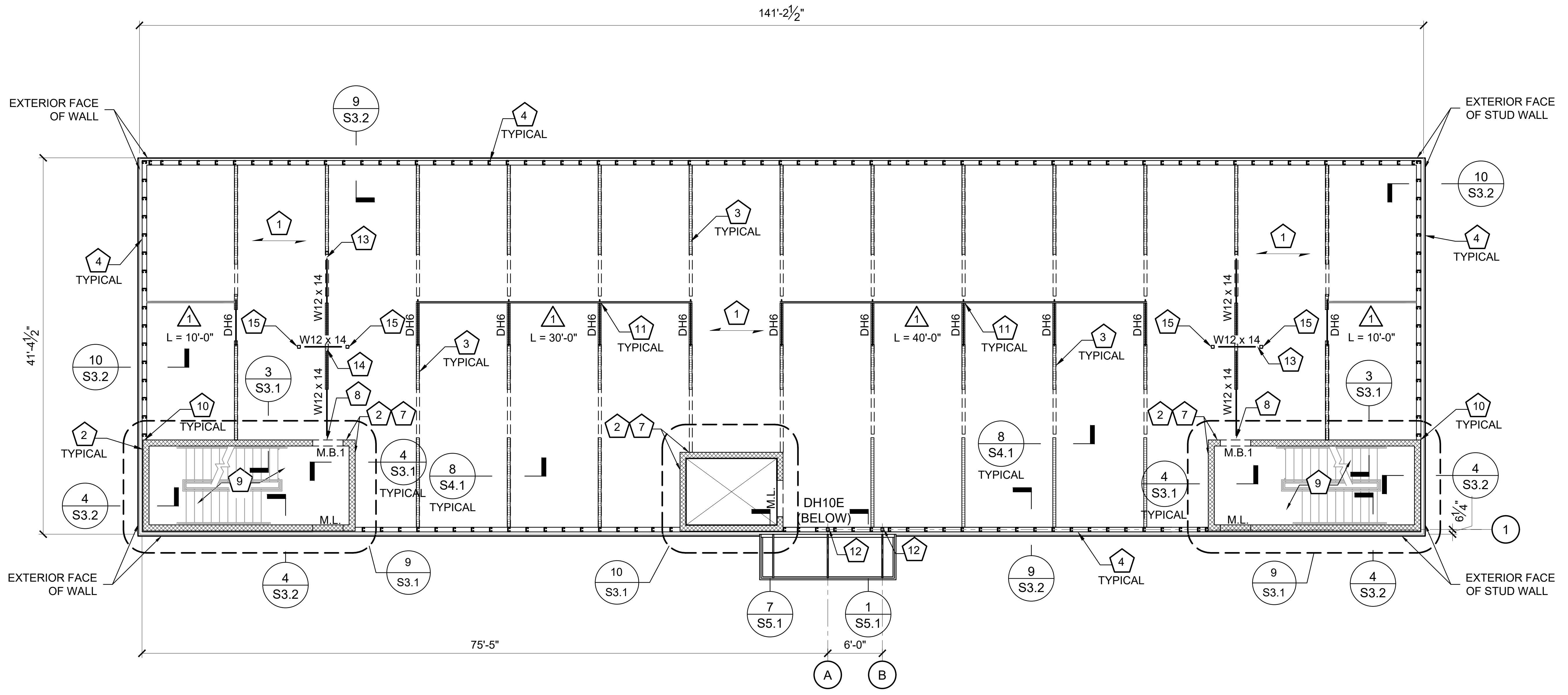
1. STANDING SEAM ROOF PER ARCHITECTURAL DRAWINGS. NO BUILDING ELEMENTS ARE TO BE HUNG DIRECTLY FROM UNDERSIDE OF STANDING SEAM ROOF IN BETWEEN LOAD BEARING WALLS.
2. SEE PLAN FOR SPOT DECK BEARING ELEVATIONS. STRUCTURE SLOPES UNIFORMLY BETWEEN POINTS OF GIVEN ELEVATION.
3. LEDGE ANGLE. SEE DETAIL 4 / S3.1.
4. Z-PURLINS:
   - A. 800 Z 250 - 68 Z-PURLINS AT 5'-0" ON CENTER
   - B. SEE DETAIL 10 / S4.1 FOR CONNECTION TO STUDS.
5. STRAP BRACING:
   - A. 4" x 16 GAGE STRAP BRACING AT TOP OF Z-PURLINS.
   - B. SEE DETAIL 8 / S4.2. INSTALL MEMBER PER DETAIL 9 / S4.2 AT EACH END OF STRAP BRACE.
6. SEE DETAIL 6 / S3.2 FOR Z-PURLIN TO MASONRY WALL CONNECTION.
7. ADD 800 Z 300 - 97 Z-PURLIN AT NOTED LOCATIONS ABOVE SHEAR WALLS.
8. HEADERS OVER OPENINGS BELOW ROOF:
   SEE HEADER SCHEDULE ON 5 / S0.2.
9. SEE 7 / S3.2 FOR ROOF HATCH SUPPORT FRAMING.
10. ATTACH STUDS TO CMU WITH (2) ¼" Ø x 1 ¾" MASONRY SCREWS AT 2'-0" o.c.
11. SEE DETAIL 5 / S3.2 FOR HEADER CONNECTION TO MASONRY WALL.
12. Z-PURLINS AT 2'-6" ON CENTER IN ZONE 3 OF THE ROOF. SEE DIAGRAM 2 / S0.2.
13. SEE DETAIL 8 / S3.2 FOR Z-PURLIN TO MASONRY WALL CONNECTION.
14. Z-PURLINS AT 2'-6" ON CENTER AS SHOW AT ELEVATOR OVERRIDE FOR SNOW DRIFT LOAD.
15. ALL EXTERIOR DIMENSIONS ARE TO THE NOMINAL FACE OF EXTERIOR STUD WALL BELOW.



ELEVATOR ROOF PLAN

3 / S1.2

SCALE: ⅛" = 1'-0"



SECOND FLOOR FRAMING PLAN

1 / S1.2

SCALE: ⅛" = 1'-0"

FINISHED FLOOR EL. = 10'-8"

SECOND FLOOR FRAMING PLAN LEGEND:

⬠ 1	INDICATES NOTE REFERRAL. SEE CORRESPONDING PLAN NOTE.
▥	INDICATES 4" INTERIOR STUD WALLS. SEE NOTE 3.
⊏⊏⊏	INDICATES 6" EXTERIOR STUD WALLS. SEE NOTE 4.
△ 1 L = 30'-0"	INDICATES SHEAR WALL OF LENGTH SHOWN ON PLAN. SEE SHEAR WALL SCHEDULE ON 8 / S0.2.
▩	INDICATES 8" CMU WALLS. SEE NOTE 2.
M.L. M.B.1	INDICATES MASONRY LINTEL OR BEAM OVER WALL OPENING BELOW. SEE LINTEL SCHEDULE ON SHEET S3.1.
DHXX	INDICATES HEADERS OVER WALL OPENING BELOW. SEE NOTE 5.
⊏ ⚋ ⊐	INDICATES INTERIOR WALLS BELOW.
⟷	INDICATES SPAN OF FLOOR SLAB SYSTEM. SEE NOTE 1.

SECOND FLOOR FRAMING PLAN NOTES:

1. FLOOR SLAB SYSTEM:
   - A. SLAB: 2 ½" NORMAL WEIGHT CONCRETE.
   - B. DECK: 2" - 18 GAGE COMPOSITE STEEL DECK (TOTAL SLAB DEPTH = 4 ½").
   - C. REINFORCEMENT: 6 x 6 - W1.4 x W1.4 WELDED WIRE REINFORCEMENT LOCATED 1 ½" BELOW TOP OF SLAB.
   - D. ATTACHMENT TO SUPPORTS: #12 SCREWS IN 36 / 4 FASTENER PATTERN.
   - E. SIDE LAP CONNECTION: (3) #10 SCREWS PER SPAN.
   - F. PERIMETER CONNECTION: #12 SCREWS @ 12" ON CENTER.
   - G. INSTALLATION CONFIGURATION: TWO SPAN MINIMUM.
2. 8" MASONRY WALLS:
   - A. WALL: 8" CMU.
   - B. WALL REINFORCEMENT: #5 @ 32 " ON CENTER.
   - C. REINFORCEMENT POSITION: CENTER IN MASONRY UNIT CELL IN EACH DIRECTION, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
   - D. HORIZONTAL REINFORCEMENT: #9 WIRE LADDER TYPE @ 16" ON CENTER.
   - E. SEE DETAILS ON SHEET S3.1 FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
3. 4" INTERIOR COLD FORMED STEEL WALLS:
   - A. STUDS: 400 S 250 - 54 STUDS @ 5'-0" ON CENTER IN 400 T 250 - 54 BOTTOM TRACK.
   - B. SHEATHING: 29 GAGE U-PANELS ONE SIDE UNLESS NOTED OTHERWISE. SEE SHEAR WALL SCHEDULE FOR U-PANEL SECTION PROPERTIES.
   - C. SEE DETAIL 1 / S4.1 & 3A / S4.1 FOR TYPICAL INTERIOR WALL CONSTRUCTION.
   - D. HAT CHANNEL BRACING: INSTALL CONTINUOUS 20 GA. HAT CHANNELS ON OPPOSITE SIDE OF STUDS @ MID-POINT OF SPAN UNLESS U-PANEL IS ON BOTH SIDES OF THE STUD, SEE PLAN. SEE 1 / S4.1 FOR HAT CHANNEL SECTION PROPERTIES.
4. 6" EXTERIOR COLD FORMED STEEL WALLS:
   - A. STUDS: 600 S250 - 68 STUDS @ 2'-0" ON CENTER IN 600 T 250 - 68 TOP AND BOTTOM TRACK.
   - B. SHEATHING: SHEATH INTERIOR FACE WITH WITH 29 GAGE U-PANELS. SEE SHEAR WALL SCHEDULE FOR U-PANEL SECTION PROPERTIES.
   - C. SEE DETAIL 2 / S4.1 FOR TYPICAL EXTERIOR WALL CONSTRUCTION.
   - D. FLAT STRAP BRACING: INSTALL 2" X 18 GA. FLAT STRAP ON EXTERIOR FACE OF STUDS @ MID-POINT OF SPAN.
5. HEADERS OVER OPENINGS BELOW SECOND FLOOR:
   SEE HEADER SCHEDULE ON 5 / S0.2.
6. DOUBLE STUDS UNDER ALL DOUBLE STUDS FROM LEVEL ABOVE. SEE ELEVATION 4 / S4.1 FOR BACK TO BACK FASTENING REQUIRES OF DOUBLE STUDS.
7. LEDGE ANGLE. SEE DETAIL 4 / S3.1.
8. SEE DETAIL 8 / S5.1 FOR STEEL BEAM ATTACHMENT TO CMU WALL.
9. STAIR DESIGN BY SPECIALTY ENGINEER. PROVIDE FULLY GROUTED CELLS AT ALL STAIR HANDRAIL LOCATIONS.
10. ATTACH STUDS TO CMU WITH (2) ¼" Ø x 1 ¾" MASONRY SCREWS AT 2'-0" o.c.
11. SEE DETAIL 5A / S4.1 FOR NON LOAD-BEARING SHEAR WALL INTERSECTION INTO LOAD-BEARING WALL.
12. SEE SECTION 1 / S5.1 FOR CANOPY SUPPORT COLUMN AND ARCHITECTURAL DRAWINGS FOR LOCATION.
13. SEE DETAIL 5 / S5.1 FOR STEEL BEAM TO STEEL COLUMN CONNECTION.
14. SEE DETAIL 6 / S5.1 FOR STEEL BEAM TO STEEL BEAM CONNECTION.
15. PROVIDE L3 x 3 x 5⁄16 DECK SUPPORT ANGLE TO COLUMN FACE ON EACH SIDE.
16. ALL EXTERIOR DIMENSIONS ARE TO THE NOMINAL FACE OF EXTERIOR STUD WALL.
17. SEE ARCHITECTURAL DRAWINGS FOR INTERIOR WALLS, DOOR, DOOR SIZES AND LOCATIONS.

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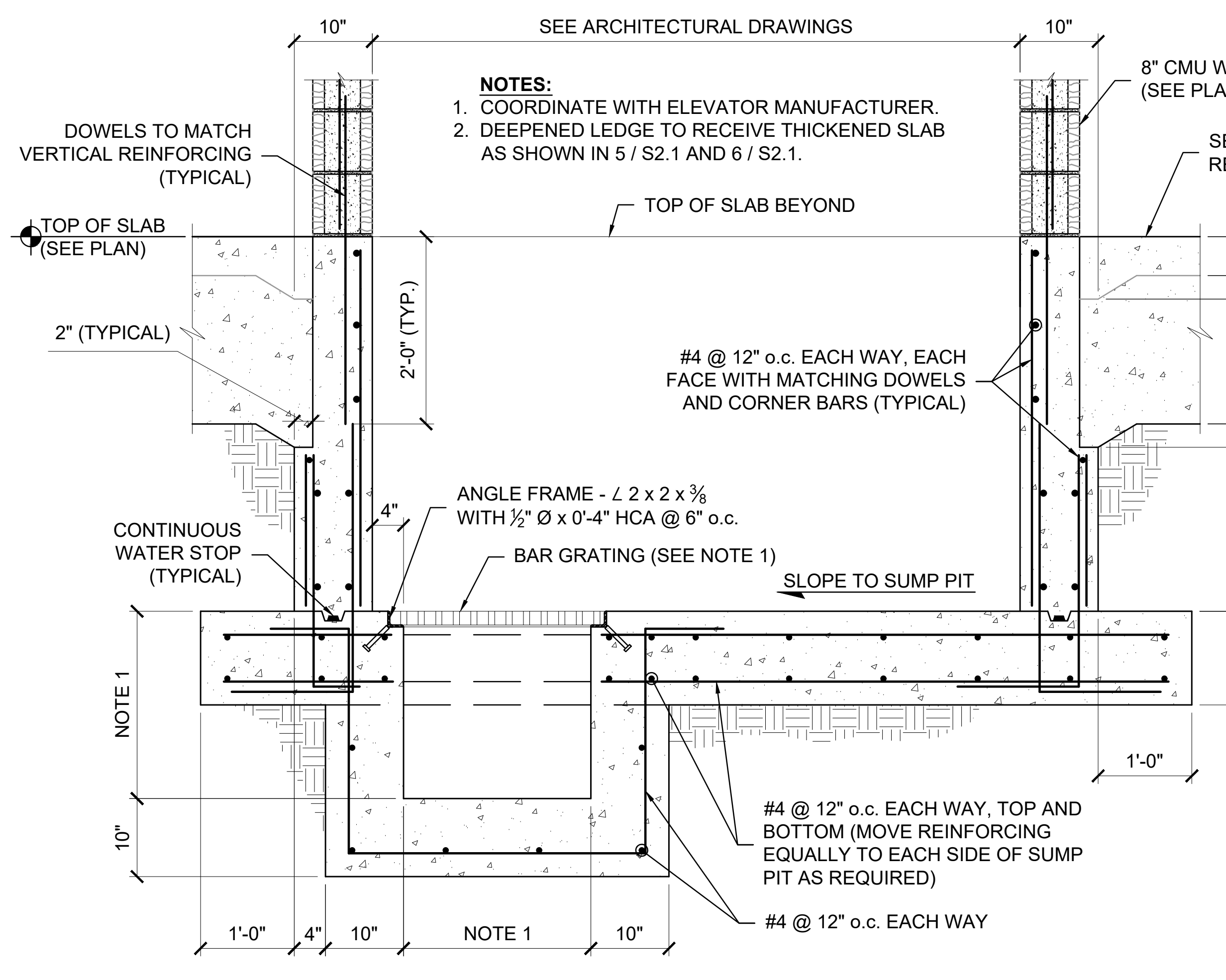
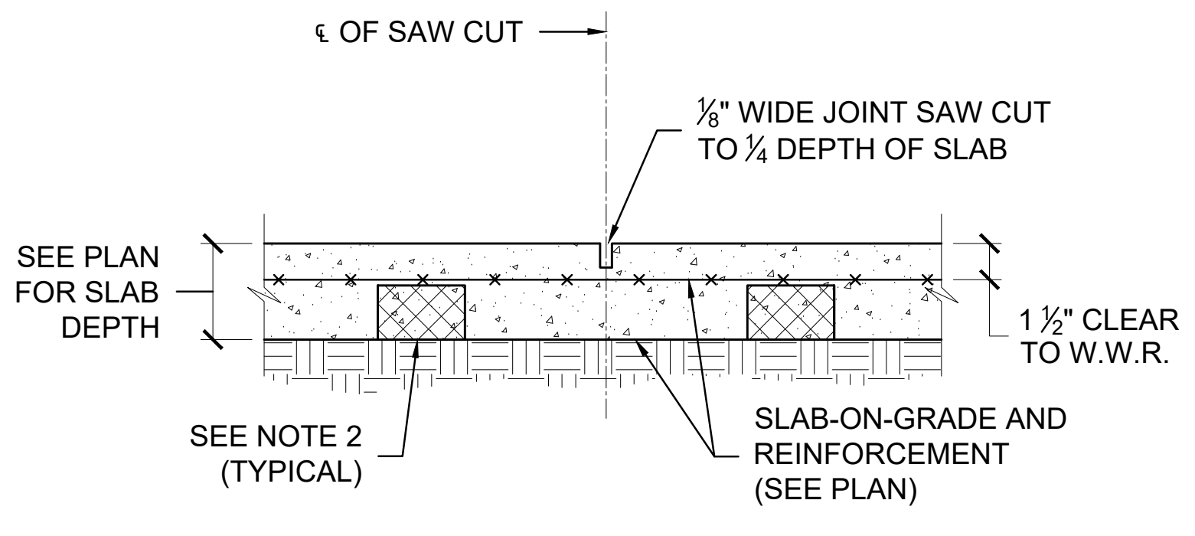

10"
SEE ARCHITECTURAL DRAWINGS
10"
8" CMU WALL (SEE PLAN)
DOWELS TO MATCH VERTICAL REINFORCING (TYPICAL)
SEE PLAN FOR SLAB REINFORCEMENT
TOP OF SLAB BEYOND
TOP OF SLAB (SEE PLAN)
2" (TYPICAL)
2'-0" (TYP.)
5"
3"
1'-4"
3"
2'-0"
NOTE 2
NOTE 1
#4 @ 12" o.c. EACH WAY, EACH FACE WITH MATCHING DOWELS AND CORNER BARS (TYPICAL)
4"
ANGLE FRAME - ∠ 2 x 2 x 3⁄8 WITH 1⁄2" Ø x 0'-4" HCA @ 6" o.c.
CONTINUOUS WATER STOP (TYPICAL)
BAR GRATING (SEE NOTE 1)
SLOPE TO SUMP PIT
1'-0"
1'-0"
NOTE 1
10"
#4 @ 12" o.c. EACH WAY, TOP AND BOTTOM (MOVE REINFORCING EQUALLY TO EACH SIDE OF SUMP PIT AS REQUIRED)
#4 @ 12" o.c. EACH WAY
1'-0"
4"
10"
NOTE 1
10"

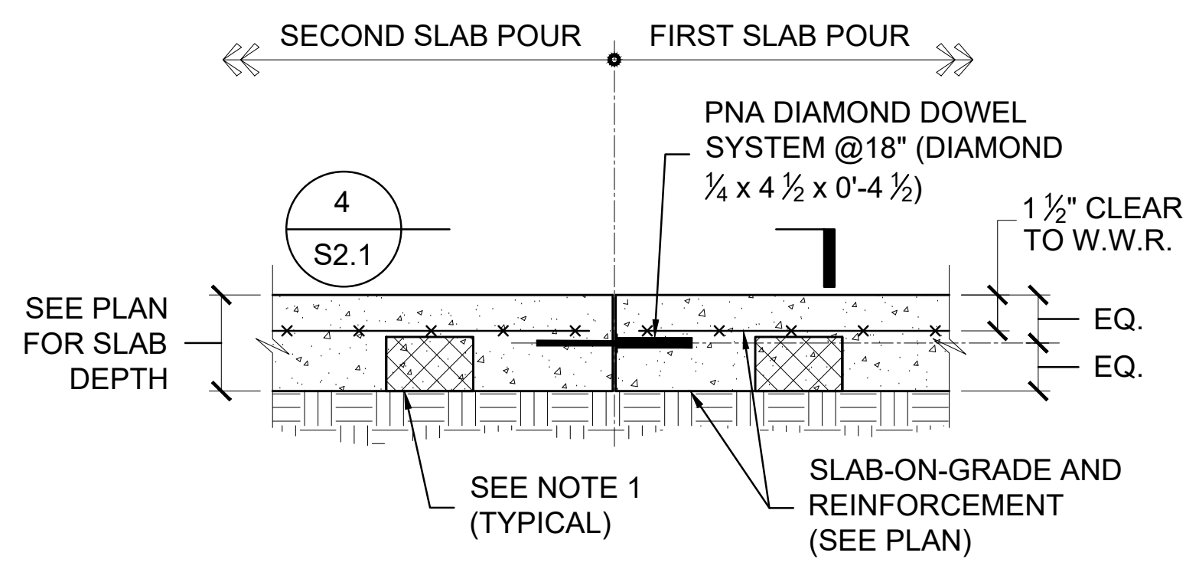
NOTES:
1. COORDINATE WITH ELEVATOR MANUFACTURER.
2. DEEPENED LEDGE TO RECEIVE THICKENED SLAB AS SHOWN IN 5 / S2.1 AND 6 / S2.1.

SECTION THRU ELEVATOR PIT 1 / S2.1
SCALE: NONE


℄ OF SAW CUT
1⁄8" WIDE JOINT SAW CUT TO 1⁄4 DEPTH OF SLAB
SEE PLAN FOR SLAB DEPTH
1 1⁄2" CLEAR TO W.W.R.
SEE NOTE 2 (TYPICAL)
SLAB-ON-GRADE AND REINFORCEMENT (SEE PLAN)

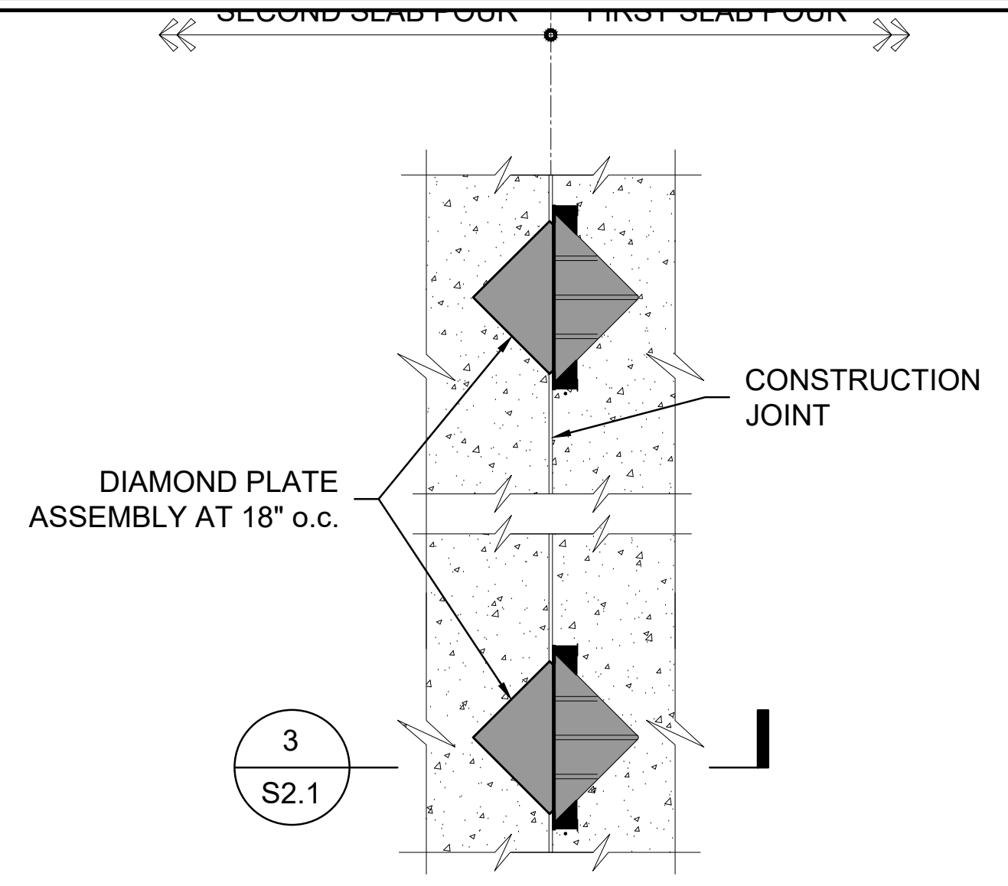
NOTES:
1. JOINT IN SLAB TO BE SAW CUT AS SOON AS THE CONCRETE WILL SAFELY SUPPORT WORKERS AND EQUIPMENT.
2. SUPPORT REINFORCEMENT WITH CONCRETE BRICKS OR SPECIALIZED ACCESSORY FOR SUPPORT BEARING ON GRADE.

DETAIL OF TYPICAL SAWN CONTRACTION JOINT AT SLAB ON GRADE 2 / S2.1
SCALE: NONE

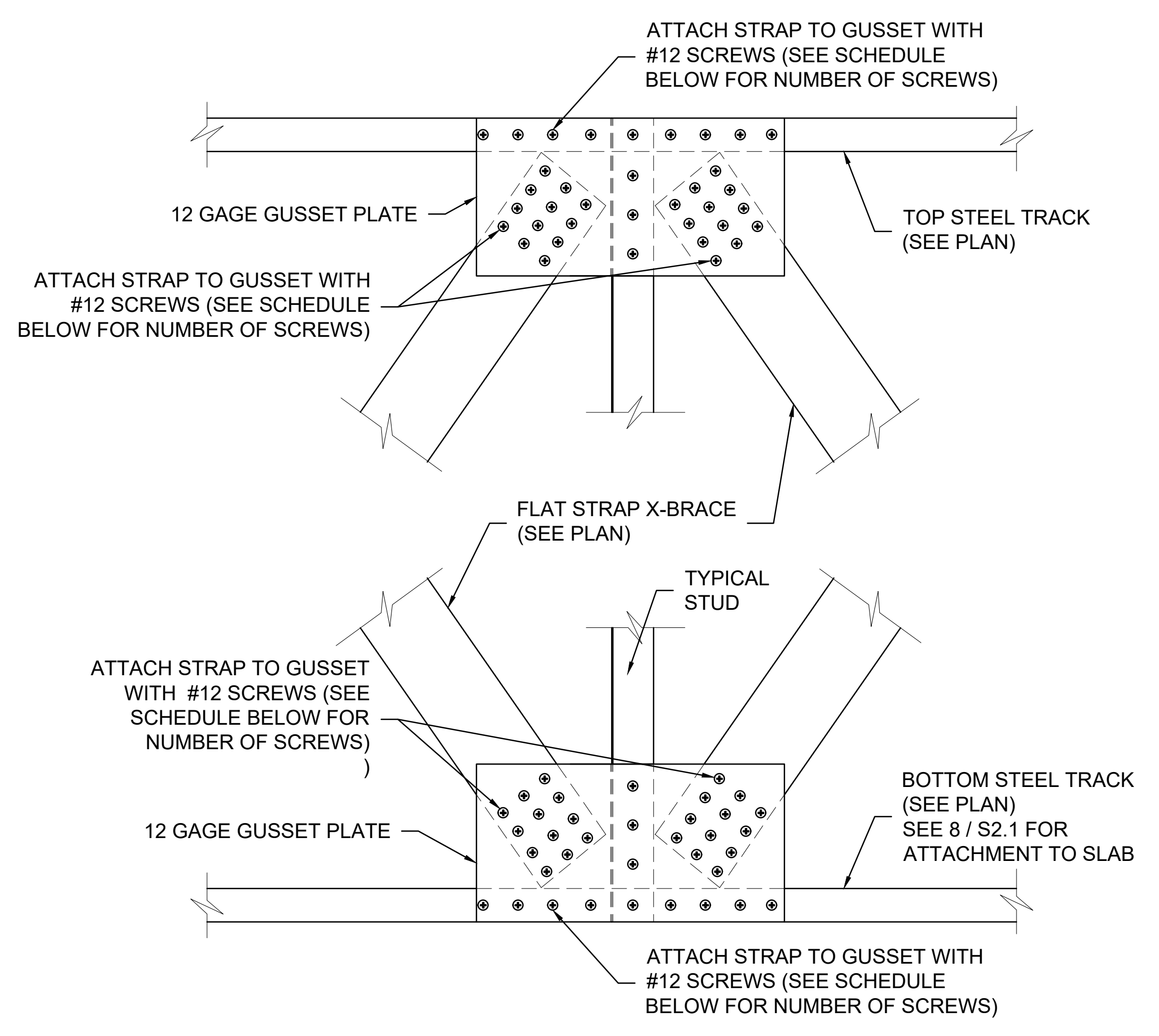


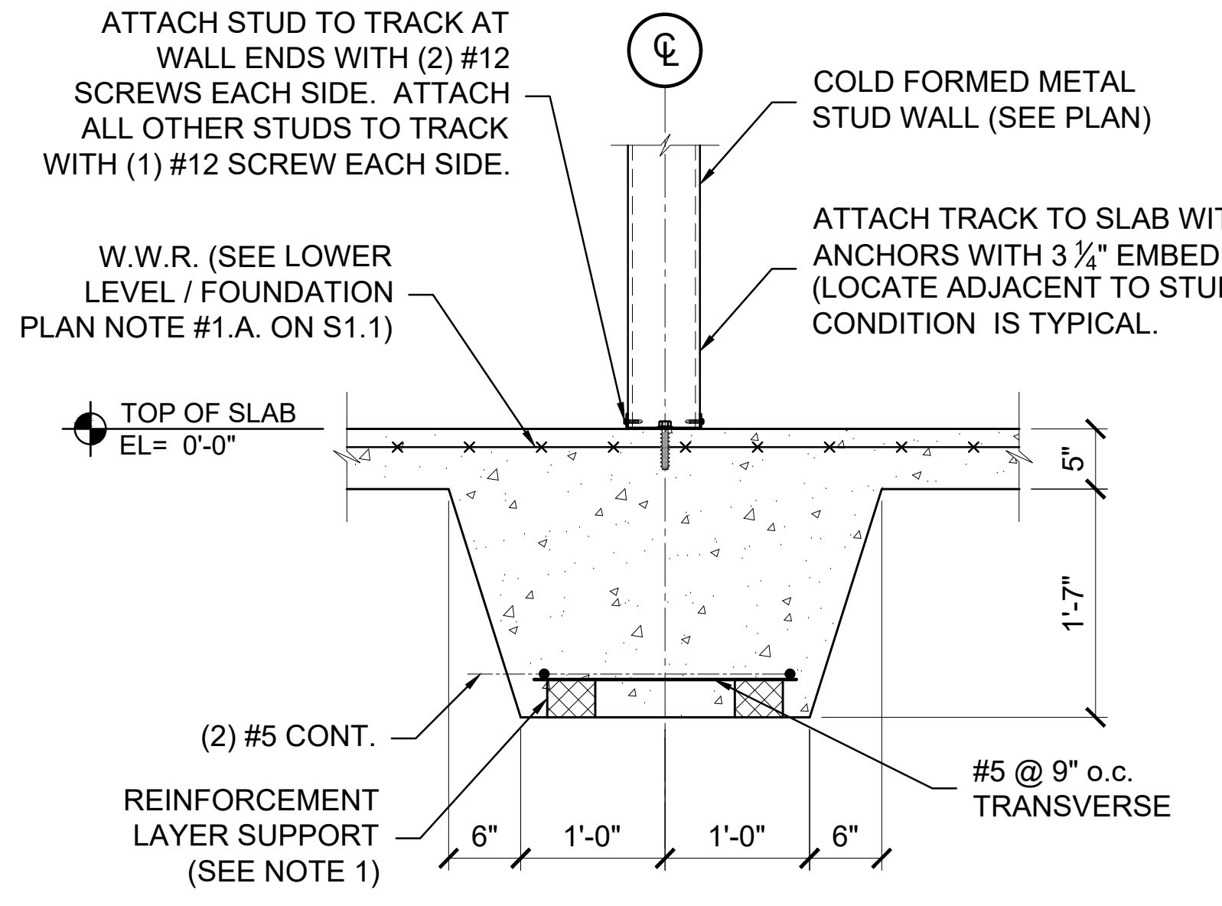
NOTES:
1. SUPPORT REINFORCEMENT WITH CONCRETE BRICKS OR SPECIALIZED ACCESSORY FOR SUPPORT BEARING ON GRADE.

DETAIL OF TYPICAL CONSTRUCTION JOINT AT SLAB ON GRADE 3 / S2.1
SCALE: NONE



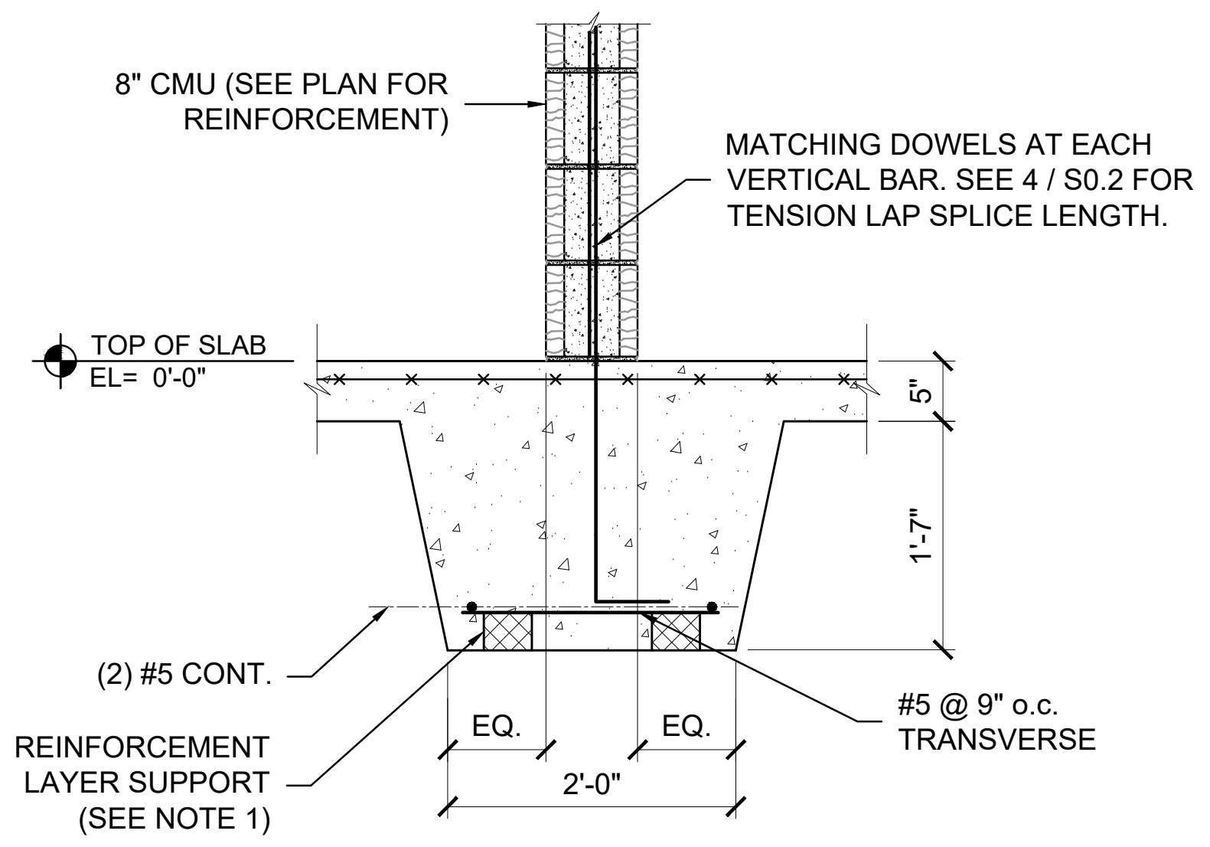
PLAN DETAIL OF TYPICAL CONSTRUCTION JOINT AT SLAB ON GRADE 4 / S2.1
SCALE: NONE


ATTACH STRAP TO GUSSET WITH #12 SCREWS (SEE SCHEDULE BELOW FOR NUMBER OF SCREWS)
12 GAGE GUSSET PLATE
TOP STEEL TRACK (SEE PLAN)
ATTACH STRAP TO GUSSET WITH #12 SCREWS (SEE SCHEDULE BELOW FOR NUMBER OF SCREWS)
FLAT STRAP X-BRACE (SEE PLAN)
TYPICAL STUD
ATTACH STRAP TO GUSSET WITH #12 SCREWS (SEE SCHEDULE BELOW FOR NUMBER OF SCREWS))
12 GAGE GUSSET PLATE
BOTTOM STEEL TRACK (SEE PLAN) SEE 8 / S2.1 FOR ATTACHMENT TO SLAB
ATTACH STRAP TO GUSSET WITH #12 SCREWS (SEE SCHEDULE BELOW FOR NUMBER OF SCREWS)


ATTACH STUD TO TRACK AT WALL ENDS WITH (2) #12 SCREWS EACH SIDE. ATTACH ALL OTHER STUDS TO TRACK WITH (1) #12 SCREW EACH SIDE.
℄
COLD FORMED METAL STUD WALL (SEE PLAN)
W.W.R. (SEE LOWER LEVEL / FOUNDATION PLAN NOTE #1.A. ON S1.1)
ATTACH TRACK TO SLAB WITH 1⁄2" Ø SCREW ANCHORS WITH 3 1⁄4" EMBEDMENT AT 24" O.C. (LOCATE ADJACENT TO STUD) - SHOWN CONDITION IS TYPICAL.
TOP OF SLAB EL= 0'-0"
5"
1'-7"
(2) #5 CONT.
REINFORCEMENT LAYER SUPPORT (SEE NOTE 1)
#5 @ 9" o.c. TRANSVERSE
6"
1'-0"
1'-0"
6"

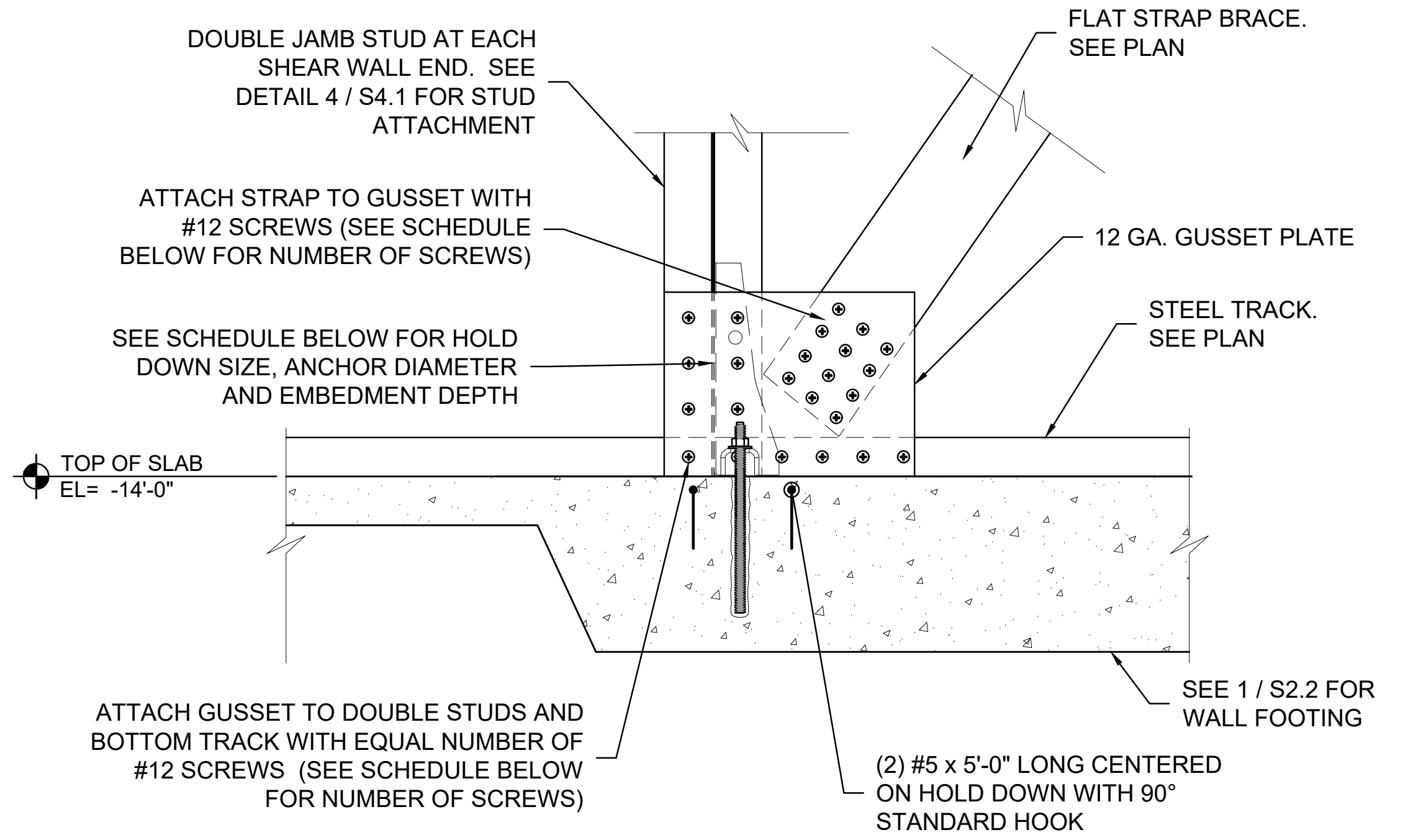
NOTES:
1. PROVIDE CONCRETE BRICKS OR SPECIALIZED ACCESSORY FOR SUPPORT BEARING ON GRADE FOR LOWER LAYER. MAXIMUM SPACING = 36".

SECTION OF THICKENED SLAB WALL FOOTING AT INTERIOR COLD FORMED METAL STUD WALL 5 / S2.1
SCALE: 3⁄4" = 1'-0"


8" CMU (SEE PLAN FOR REINFORCEMENT)
MATCHING DOWELS AT EACH VERTICAL BAR. SEE 4 / S0.2 FOR TENSION LAP SPLICE LENGTH.
TOP OF SLAB EL= 0'-0"
5"
1'-7"
(2) #5 CONT.
REINFORCEMENT LAYER SUPPORT (SEE NOTE 1)
#5 @ 9" o.c. TRANSVERSE
EQ.
EQ.
2'-0"

NOTES:
1. PROVIDE CONCRETE BRICKS OR SPECIALIZED ACCESSORY FOR SUPPORT BEARING ON GRADE FOR LOWER LAYER. MAXIMUM SPACING = 36".

SECTION OF THICKENED SLAB WALL FOOTING AT INTERIOR STAIR WALL 6 / S2.1
SCALE: 3⁄4" = 1'-0"

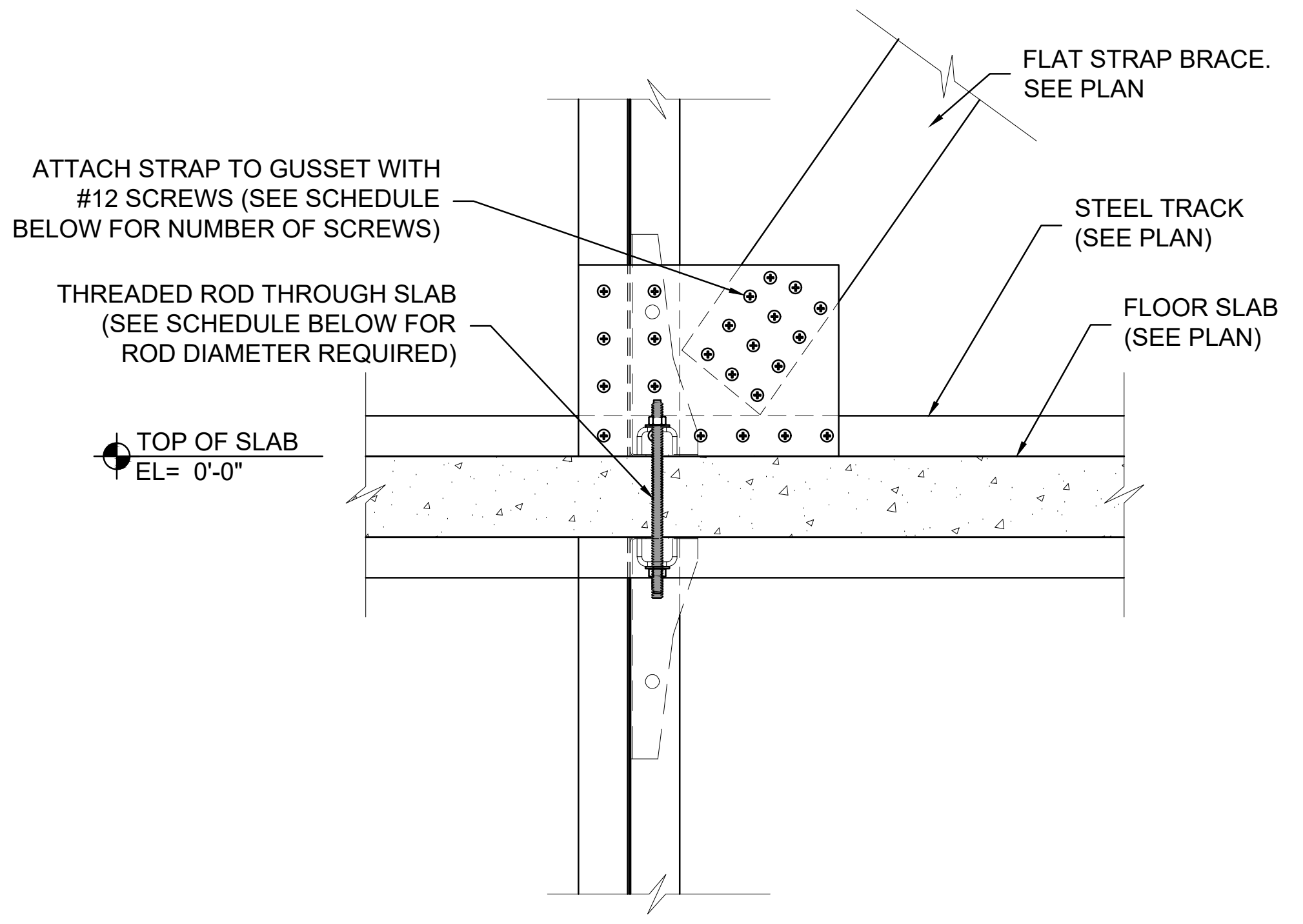

DOUBLE JAMB STUD AT EACH SHEAR WALL END. SEE DETAIL 4 / S4.1 FOR STUD ATTACHMENT
FLAT STRAP BRACE. SEE PLAN
ATTACH STRAP TO GUSSET WITH #12 SCREWS (SEE SCHEDULE BELOW FOR NUMBER OF SCREWS)
12 GA. GUSSET PLATE
SEE SCHEDULE BELOW FOR HOLD DOWN SIZE, ANCHOR DIAMETER AND EMBEDMENT DEPTH
STEEL TRACK. SEE PLAN
TOP OF SLAB EL= -14'-0"
SEE 1 / S2.2 FOR WALL FOOTING
ATTACH GUSSET TO DOUBLE STUDS AND BOTTOM TRACK WITH EQUAL NUMBER OF #12 SCREWS (SEE SCHEDULE BELOW FOR NUMBER OF SCREWS)
(2) #5 x 5'-0" LONG CENTERED ON HOLD DOWN WITH 90° STANDARD HOOK

FLAT STRAP X-BRACING SCHEDULE

	FLAT STRAP SIZE	NUMBER OF SCREWS	HOLD DOWN SIZE	EPOXY ANCHOR ROD DIAMETER	EMBEDMENT
LOWER LEVEL	6" x 14 GAGE	16	S/HD10S	7⁄8"	12"

DETAIL OF STRAP BRACING GUSSET CONNECTION AT LOWER LEVEL 7 / S2.1
SCALE: 3⁄4" = 1'-0"

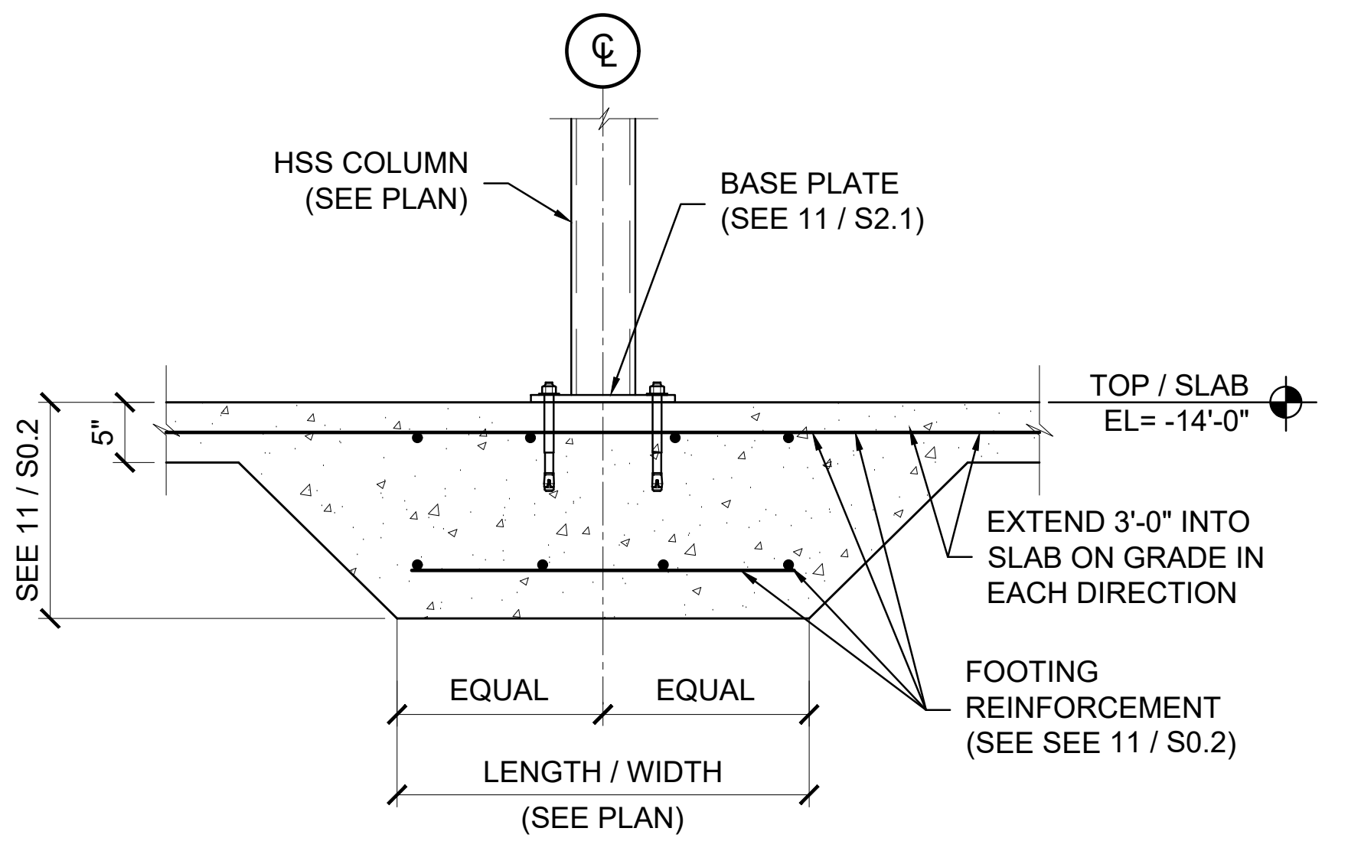
DETAIL OF STRAP BRACING GUSSET CONNECTION AT CONTINUOUS X-BRACED WALL 8 / S2.1
SCALE: 3⁄4" = 1'-0"


FLAT STRAP BRACE. SEE PLAN
ATTACH STRAP TO GUSSET WITH #12 SCREWS (SEE SCHEDULE BELOW FOR NUMBER OF SCREWS)
STEEL TRACK (SEE PLAN)
THREADED ROD THROUGH SLAB (SEE SCHEDULE BELOW FOR ROD DIAMETER REQUIRED)
FLOOR SLAB (SEE PLAN)
TOP OF SLAB EL= 0'-0"

FLAT STRAP X-BRACING SCHEDULE

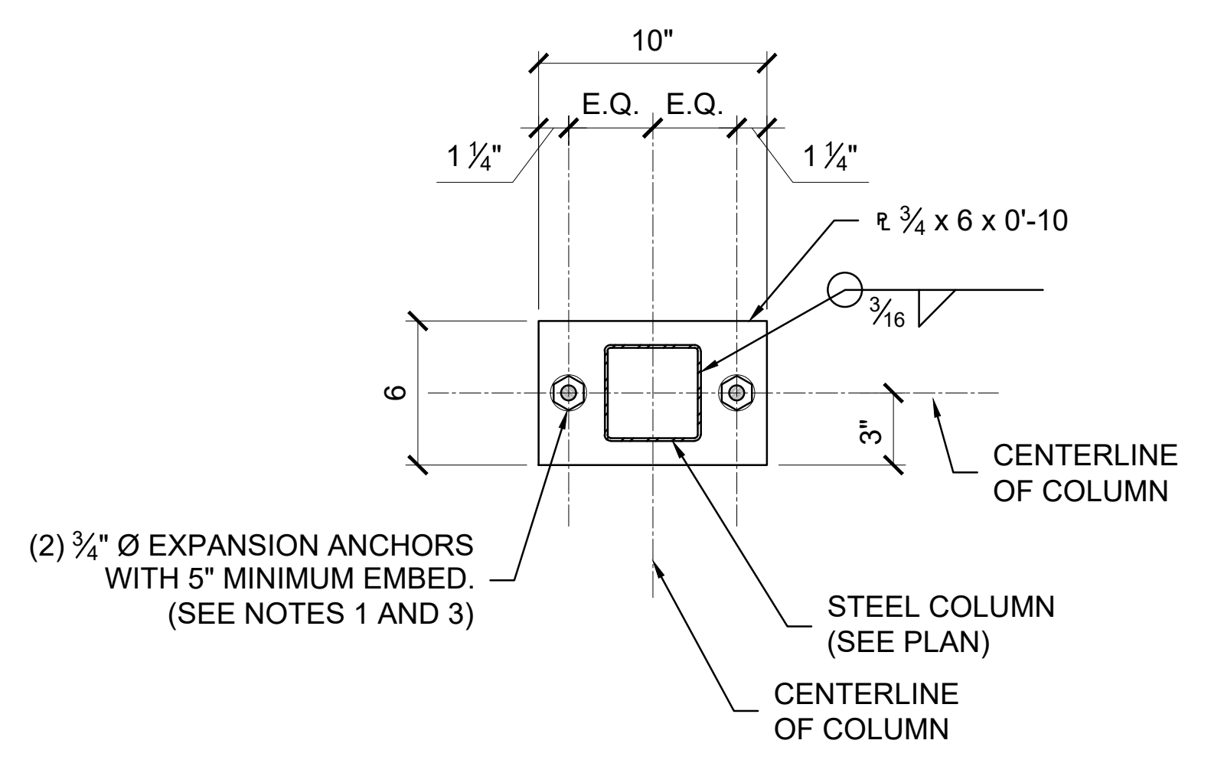
	FLAT STRAP SIZE	NUMBER OF SCREWS	HOLD DOWN SIZE	THREADED ROD DIAMETER
FIRST FLOOR	6" x 14 GAGE	18	S/HD10S	7⁄8"

DETAIL OF STRAP BRACING GUSSET CONNECTION AT CONTINUOUS FIRST FLOOR 9 / S2.1
SCALE: 3⁄4" = 1'-0"


℄
HSS COLUMN (SEE PLAN)
BASE PLATE (SEE 11 / S2.1)
TOP / SLAB EL= -14'-0"
5"
SEE 11 / S0.2
EXTEND 3'-0" INTO SLAB ON GRADE IN EACH DIRECTION
FOOTING REINFORCEMENT (SEE SEE 11 / S0.2)
EQUAL
EQUAL
LENGTH / WIDTH (SEE PLAN)

DETAIL THRU TYPICAL THICKENED SLAB COLUMN FOOTING 10 / S2.1
SCALE: 3⁄4" = 1'-0"

OUR BASE PLATE AND ANCHOR ROD DESIGN IS BASED ON THE APPLIED LOADS NOTED OR REFERENCED IN OUR GENERAL NOTES. OSHA CONFORMANCE IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THEIR SUBCONTRACTORS.



TYPICAL BASE PLATE

NOTES:
1. HOLE DIAMETER FOR 3⁄4" Ø EXPANSION ANCHORS TO BE 7⁄8".
2. ORIENT BASE PLATES SUCH THAT THERE IS NO OVERHANG INTO CORRIDORS.
3. INSTALL EXPANSION ANCHORS IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

DETAIL OF TYPICAL BASE PLATE LAYOUT 11 / S2.1
SCALE: NONE

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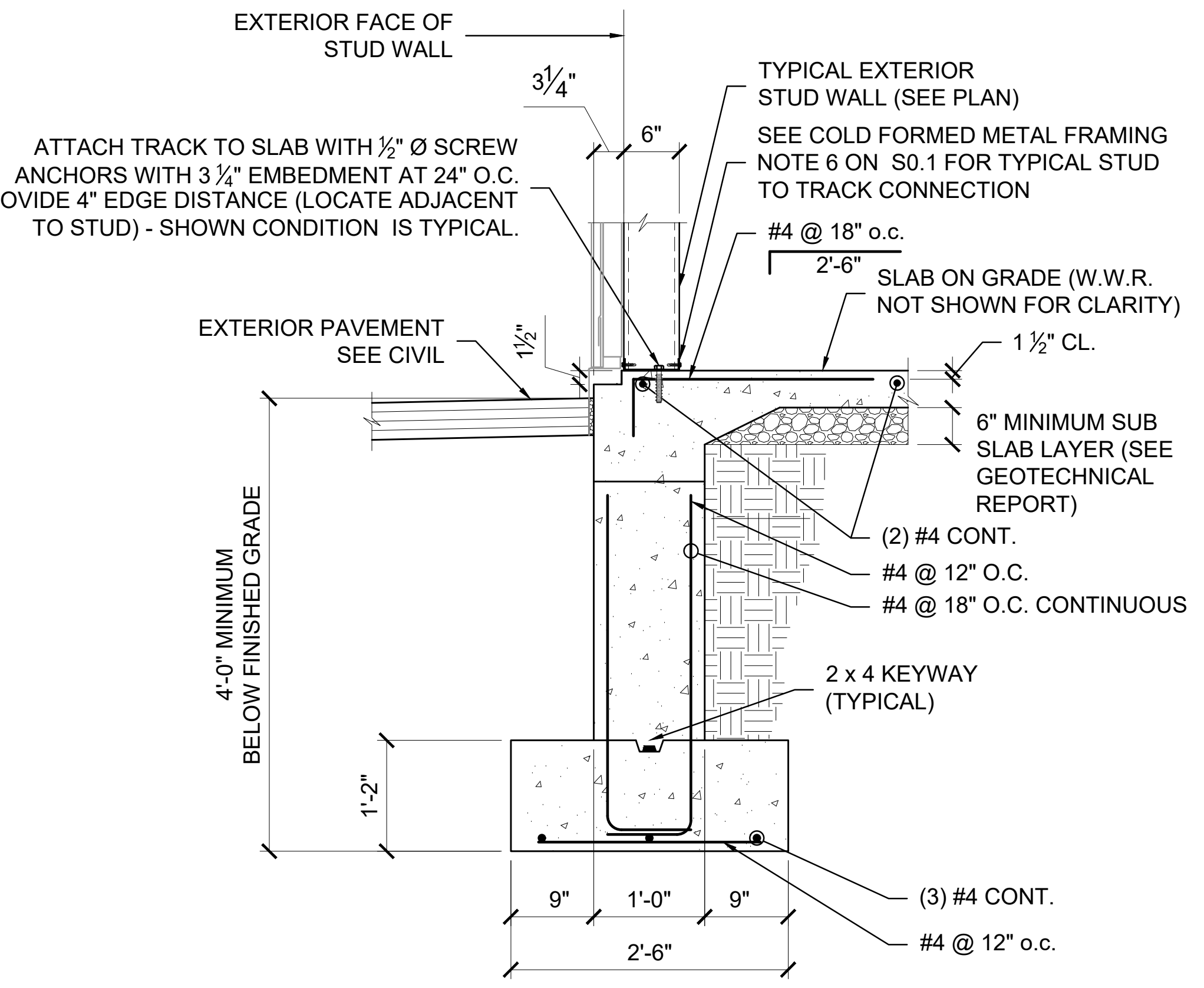
ISSUE: FOR CONSTRUCTION
REVISIONS:

PROJECT NUMBER 201941
DATE 9-28-22

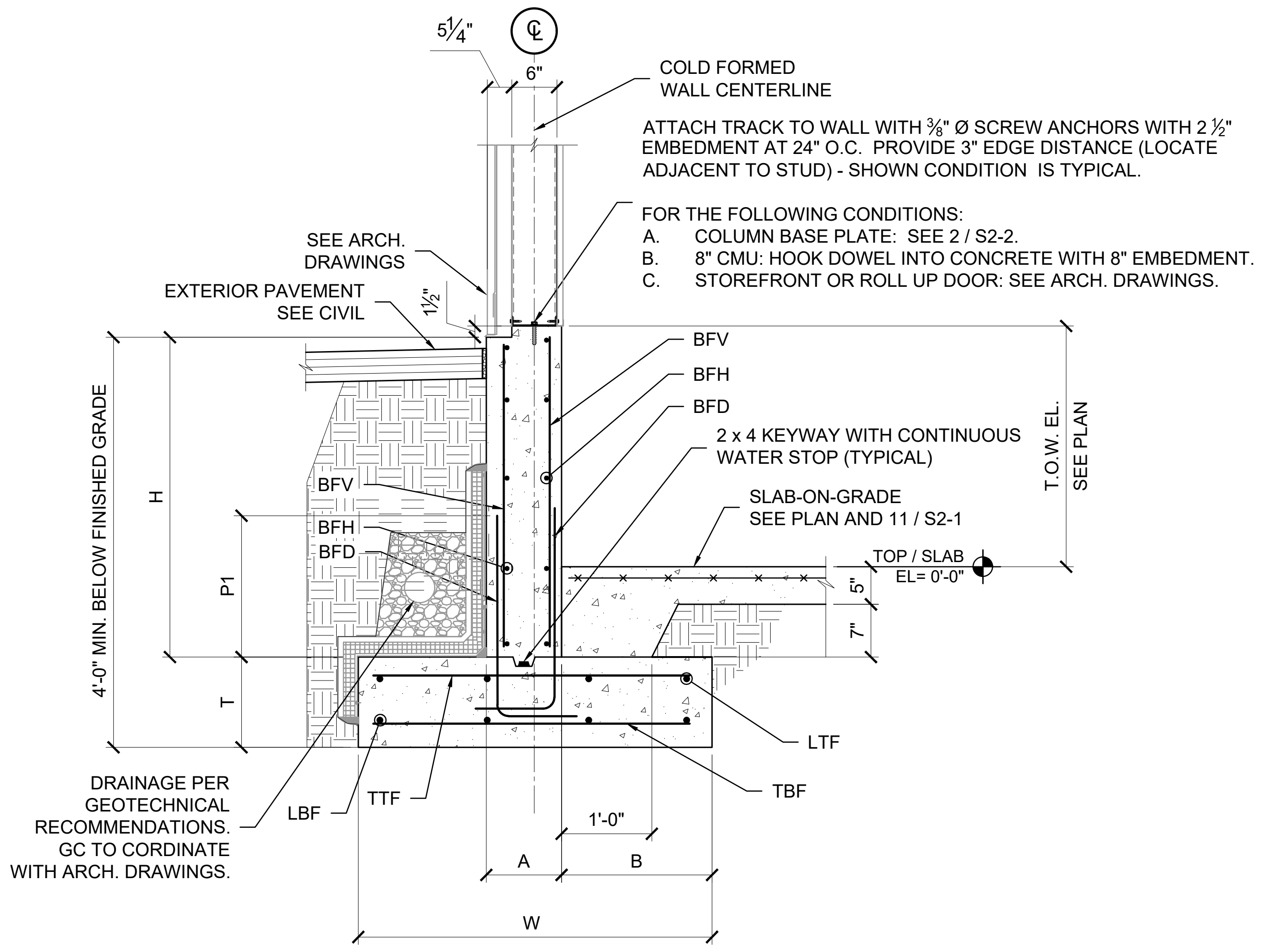
JENNIFER ZABIK
097626
09/28/22

SHEET NUMBER
S2.1


EXTERIOR FACE OF STUD WALL
3¼"
6"
TYPICAL EXTERIOR STUD WALL (SEE PLAN)
SEE COLD FORMED METAL FRAMING NOTE 6 ON S0.1 FOR TYPICAL STUD TO TRACK CONNECTION
ATTACH TRACK TO SLAB WITH ½" Ø SCREW ANCHORS WITH 3 ¼" EMBEDMENT AT 24" O.C. PROVIDE 4" EDGE DISTANCE (LOCATE ADJACENT TO STUD) - SHOWN CONDITION IS TYPICAL.
#4 @ 18" o.c.
2'-6"
SLAB ON GRADE (W.W.R. NOT SHOWN FOR CLARITY)
EXTERIOR PAVEMENT SEE CIVIL
1½"
1 ½" CL.
6" MINIMUM SUB SLAB LAYER (SEE GEOTECHNICAL REPORT)
(2) #4 CONT.
#4 @ 12" O.C.
#4 @ 18" O.C. CONTINUOUS
4'-0" MINIMUM BELOW FINISHED GRADE
2 x 4 KEYWAY (TYPICAL)
1'-2"
9"
1'-0"
9"
2'-6"
(3) #4 CONT.
#4 @ 12" o.c.

SECTION THRU EXTERIOR WALL FOOTING 1 / S2.2

SCALE: ¾" = 1'-0"

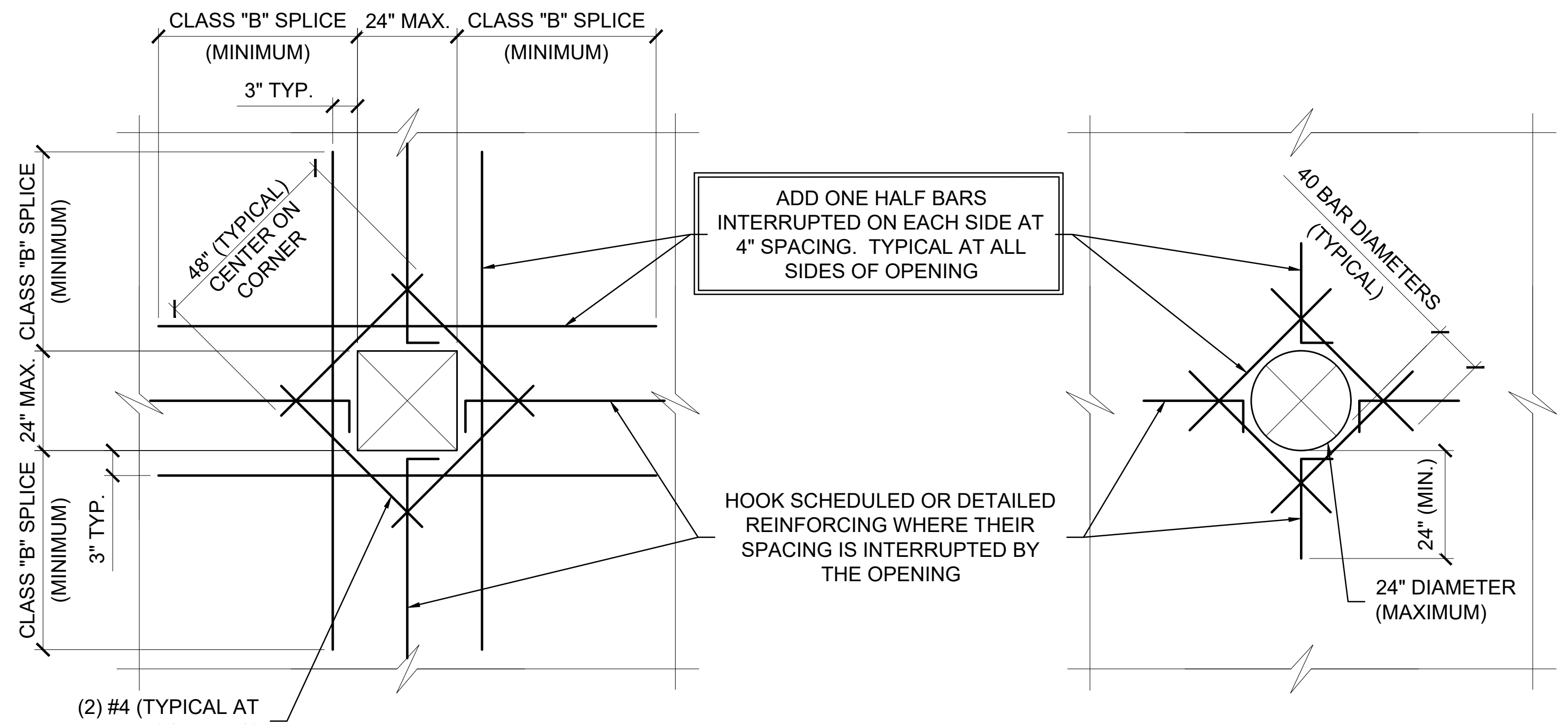

5¼"
℄
6"
COLD FORMED WALL CENTERLINE
ATTACH TRACK TO WALL WITH ⅜" Ø SCREW ANCHORS WITH 2 ½" EMBEDMENT AT 24" O.C. PROVIDE 3" EDGE DISTANCE (LOCATE ADJACENT TO STUD) - SHOWN CONDITION IS TYPICAL.
FOR THE FOLLOWING CONDITIONS:
A. COLUMN BASE PLATE: SEE 2 / S2-2.
B. 8" CMU: HOOK DOWEL INTO CONCRETE WITH 8" EMBEDMENT.
C. STOREFRONT OR ROLL UP DOOR: SEE ARCH. DRAWINGS.
SEE ARCH. DRAWINGS
EXTERIOR PAVEMENT SEE CIVIL
1½"
BFV
BFH
BFD
2 x 4 KEYWAY WITH CONTINUOUS WATER STOP (TYPICAL)
SLAB-ON-GRADE SEE PLAN AND 11 / S2-1
T.O.W. EL. SEE PLAN
TOP / SLAB EL= 0'-0"
5"
7"
H
P1
T
4'-0" MIN. BELOW FINISHED GRADE
BFV
BFH
BFD
DRAINAGE PER GEOTECHNICAL RECOMMENDATIONS. GC TO CORDINATE WITH ARCH. DRAWINGS.
LBF
TTF
LTF
TBF
1'-0"
A
B
W

γ = 140 p.c.f. CANTILEVER RETAINING WALL SCHEDULE LEVEL EARTH SURFACE AT TOP OF WALL												
DIMENSIONS					FOOTING REINFORCEMENT				WALL REINFORCEMENT			
H	A	W	B	T	TTF	LTF	TBF	LBF	BFD	P1	BFV	BFH
9'-0"	1'-2"	5'-6"	2'-0"	1'-3"	#5@12"	6-#5	#5@12"	6-#5	#6@12"	3'-1"	#6@12"	#4@12"
15'-0"	1'-2"	9'-0"	2'-6"	1'-6"	#6@9"	9-#6	#6@9"	9-#6	#8@9"	5'-2"	#8@9"	#4@12"

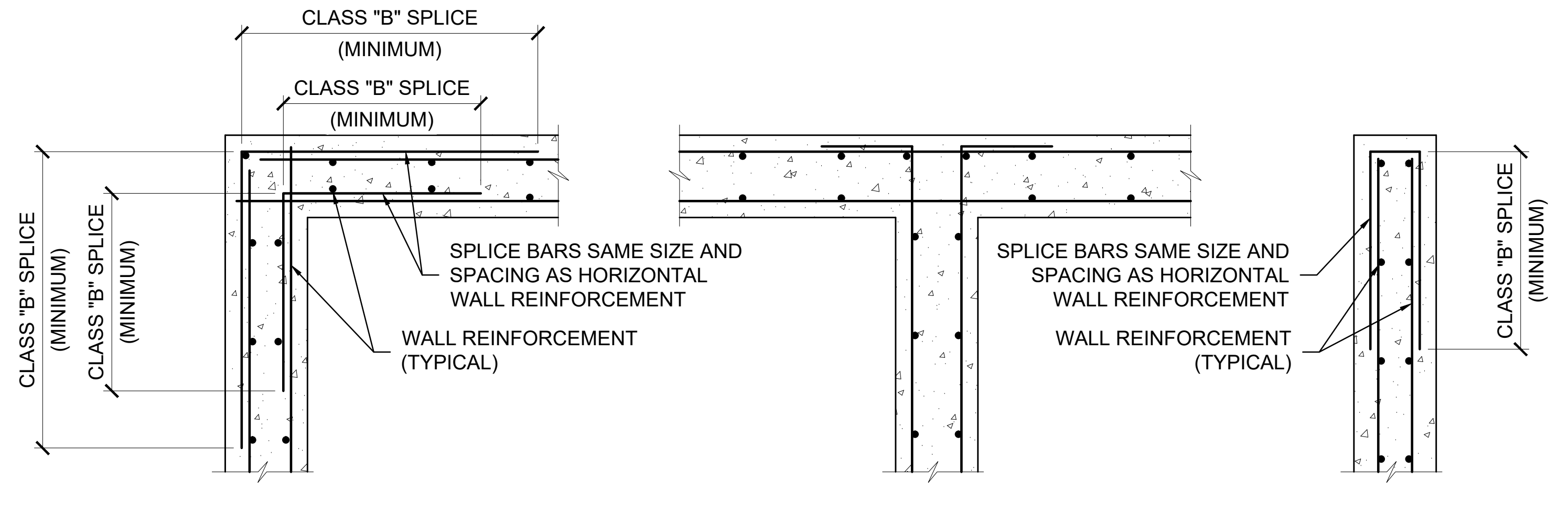
DO NOT BACKFILL UNTIL SLAB ON GRADE IS IN PLACE AND CONCRETE HAS ATTAINED 100% OF DESIGN COMPRESSIVE STRENGTH. SEE 4, 5 & 6 / S2.2 FOR JOINT DETAILS

SECTION THRU CANTILEVERED RETAINING WALL 2 / S2.2

SCALE: ¾" = 1'-0"


CLASS "B" SPLICE (MINIMUM)
24" MAX.
CLASS "B" SPLICE (MINIMUM)
3" TYP.
CLASS "B" SPLICE (MINIMUM)
24" MAX.
CLASS "B" SPLICE (MINIMUM)
3" TYP.
48" (TYPICAL) CENTER ON CORNER
ADD ONE HALF BARS INTERRUPTED ON EACH SIDE AT 4" SPACING. TYPICAL AT ALL SIDES OF OPENING
40 BAR DIAMETERS (TYPICAL)
HOOK SCHEDULED OR DETAILED REINFORCING WHERE THEIR SPACING IS INTERRUPTED BY THE OPENING
24" (MIN.)
24" DIAMETER (MAXIMUM)
(2) #4 (TYPICAL AT ALL CORNERS)

TYPICAL REINFORCEMENT AROUND OPENINGS

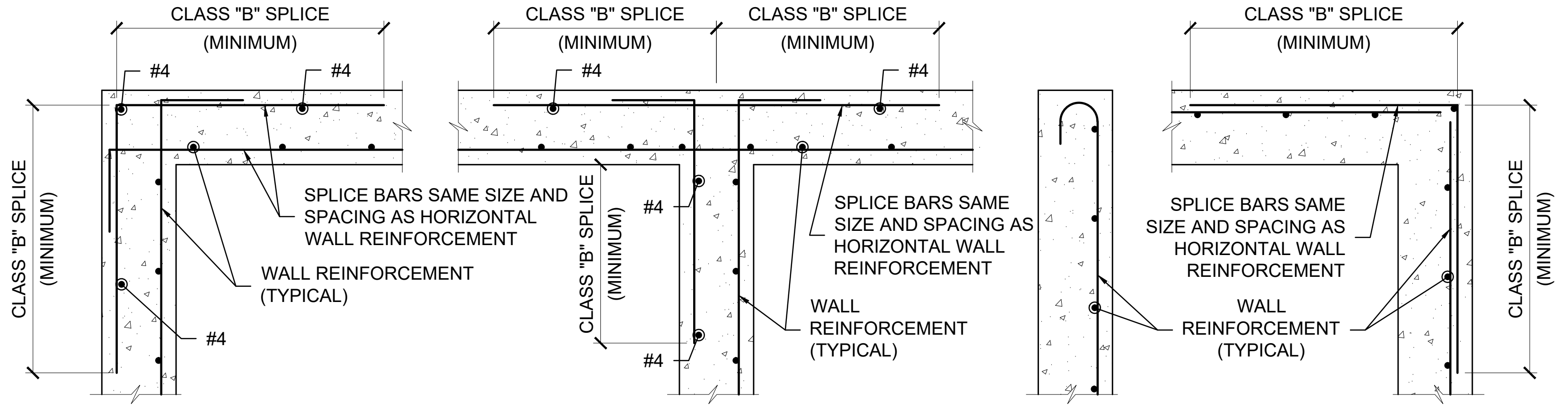

CLASS "B" SPLICE (MINIMUM)
CLASS "B" SPLICE (MINIMUM)
CLASS "B" SPLICE (MINIMUM)
CLASS "B" SPLICE (MINIMUM)
SPLICE BARS SAME SIZE AND SPACING AS HORIZONTAL WALL REINFORCEMENT
WALL REINFORCEMENT (TYPICAL)
SPLICE BARS SAME SIZE AND SPACING AS HORIZONTAL WALL REINFORCEMENT
WALL REINFORCEMENT (TYPICAL)
CLASS "B" SPLICE (MINIMUM)

TYPICAL BAR ARRANGEMENT AT WALL CORNERS, INTERSECTIONS AND ENDS

(BARS IN BOTH FACES)

NOTES:

1. THE SAME ARRANGEMENT OF HORIZONTAL BARS SHALL BE USED IN CONTINUOUS SPANDRELS, WITH CONCRETE PROTECTION THE SAME AS FOR BEAMS. BAR SPLICES SHALL BE CLASS "B" FOR HORIZONTAL AND VERTICAL STEEL TYPICALLY. ONLY 50% OF THE HORIZONTAL REINFORCING SHALL BE SPLICED AT ANY ONE VERTICAL PLANE.

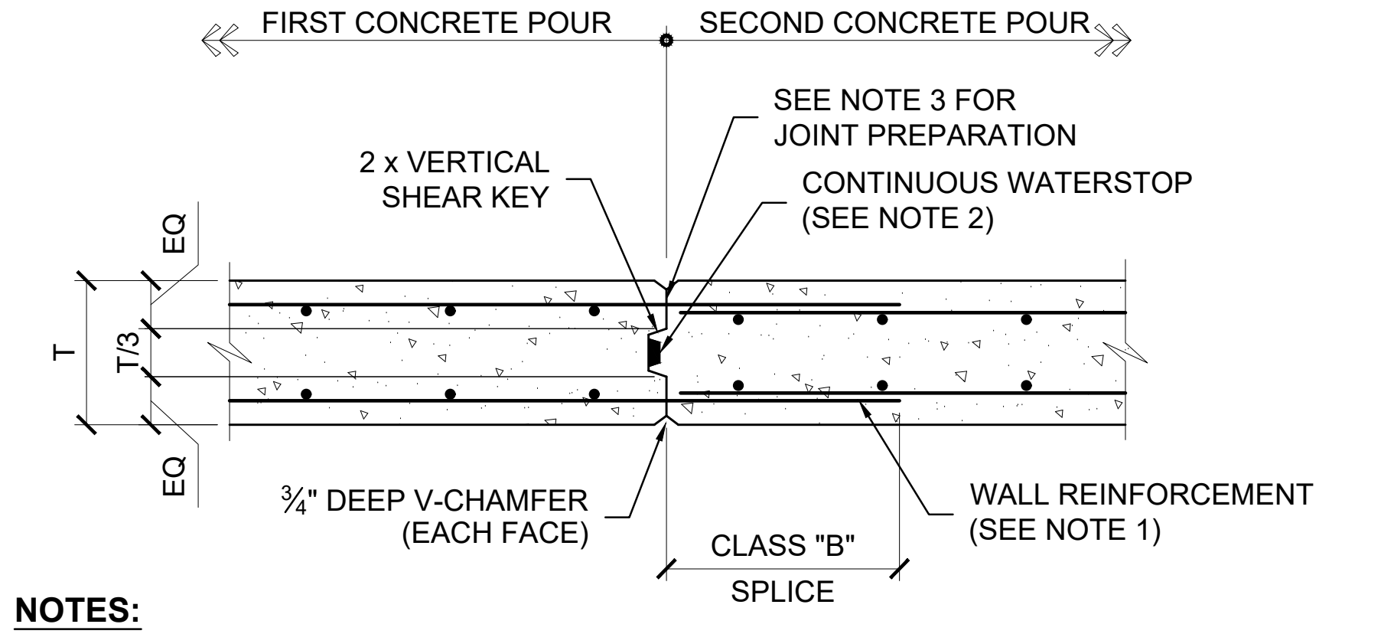

CLASS "B" SPLICE (MINIMUM)
#4
#4
CLASS "B" SPLICE (MINIMUM)
SPLICE BARS SAME SIZE AND SPACING AS HORIZONTAL WALL REINFORCEMENT
WALL REINFORCEMENT (TYPICAL)
#4
CLASS "B" SPLICE (MINIMUM)
CLASS "B" SPLICE (MINIMUM)
#4
#4
CLASS "B" SPLICE (MINIMUM)
#4
#4
SPLICE BARS SAME SIZE AND SPACING AS HORIZONTAL WALL REINFORCEMENT
WALL REINFORCEMENT (TYPICAL)
CLASS "B" SPLICE (MINIMUM)
SPLICE BARS SAME SIZE AND SPACING AS HORIZONTAL WALL REINFORCEMENT
WALL REINFORCEMENT (TYPICAL)
CLASS "B" SPLICE (MINIMUM)

TYPICAL BAR ARRANGEMENT AT WALL CORNERS, INTERSECTIONS AND ENDS

(BARS IN ONE FACE ONLY)

DETAIL OF TYPICAL WALL REINFORCING ARRANGEMENT 3 / S2.2

SCALE: NONE

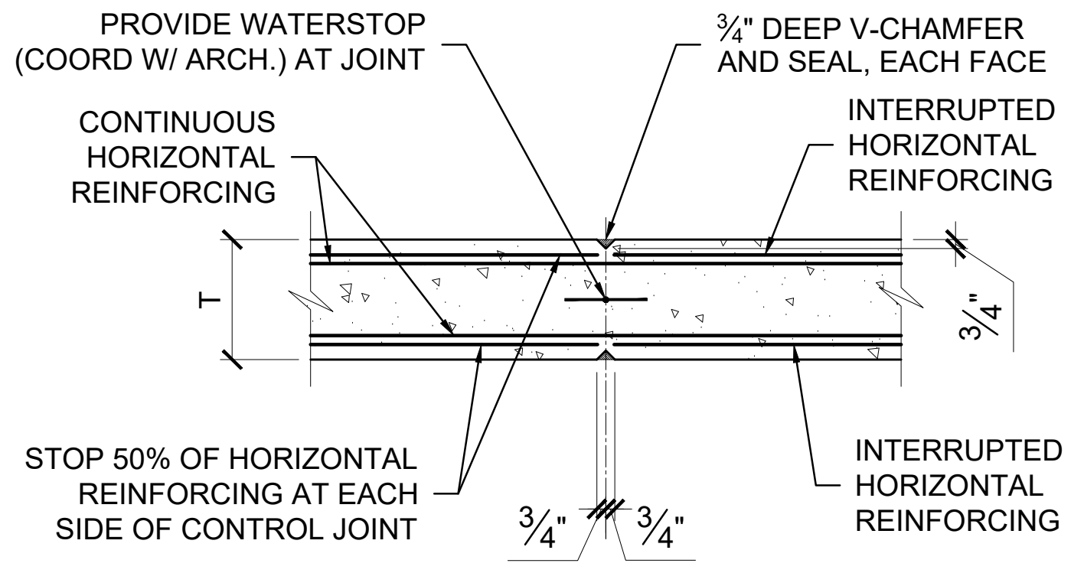

FIRST CONCRETE POUR
SECOND CONCRETE POUR
SEE NOTE 3 FOR JOINT PREPARATION
2 x VERTICAL SHEAR KEY
CONTINUOUS WATERSTOP (SEE NOTE 2)
EQ
T
T/3
EQ
¾" DEEP V-CHAMFER (EACH FACE)
CLASS "B" SPLICE
WALL REINFORCEMENT (SEE NOTE 1)

NOTES:

1. SEE OTHER SECTIONS AND SCHEDULES FOR ACTUAL WALL REINFORCEMENT POSITION.
2. VERIFY NEED FOR WATERSTOP. OTHER WALL WATERPROOFING NOT SHOWN.
3. CLEAN JOINT TO SOUND CONCRETE. MOISTEN JOINT SURFACE WITH WATER AND COAT WITH CEMENT GROUT IMMEDIATELY BEFORE SECOND CONCRETE POUR.

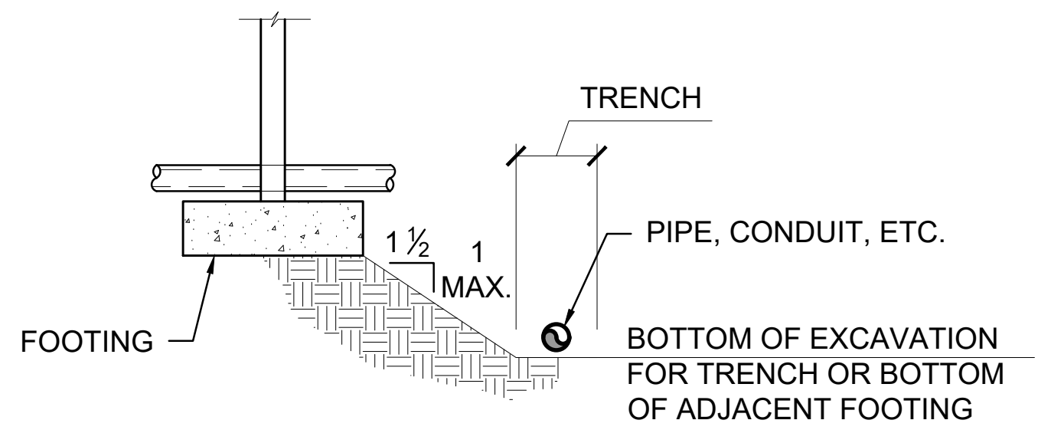
PLAN DETAIL OF WATERSTOP AT CONCRETE WALL CONSTRUCTION JOINT 4 / S2.2

SCALE: NONE


PROVIDE WATERSTOP (COORD W/ ARCH.) AT JOINT
¾" DEEP V-CHAMFER AND SEAL, EACH FACE
CONTINUOUS HORIZONTAL REINFORCING
INTERRUPTED HORIZONTAL REINFORCING
T
¾"
STOP 50% OF HORIZONTAL REINFORCING AT EACH SIDE OF CONTROL JOINT
¾"
¾"
INTERRUPTED HORIZONTAL REINFORCING

PLAN DETAIL OF CONCRETE WALL CONTRACTION JOINT 5 / S2.2

SCALE: NONE

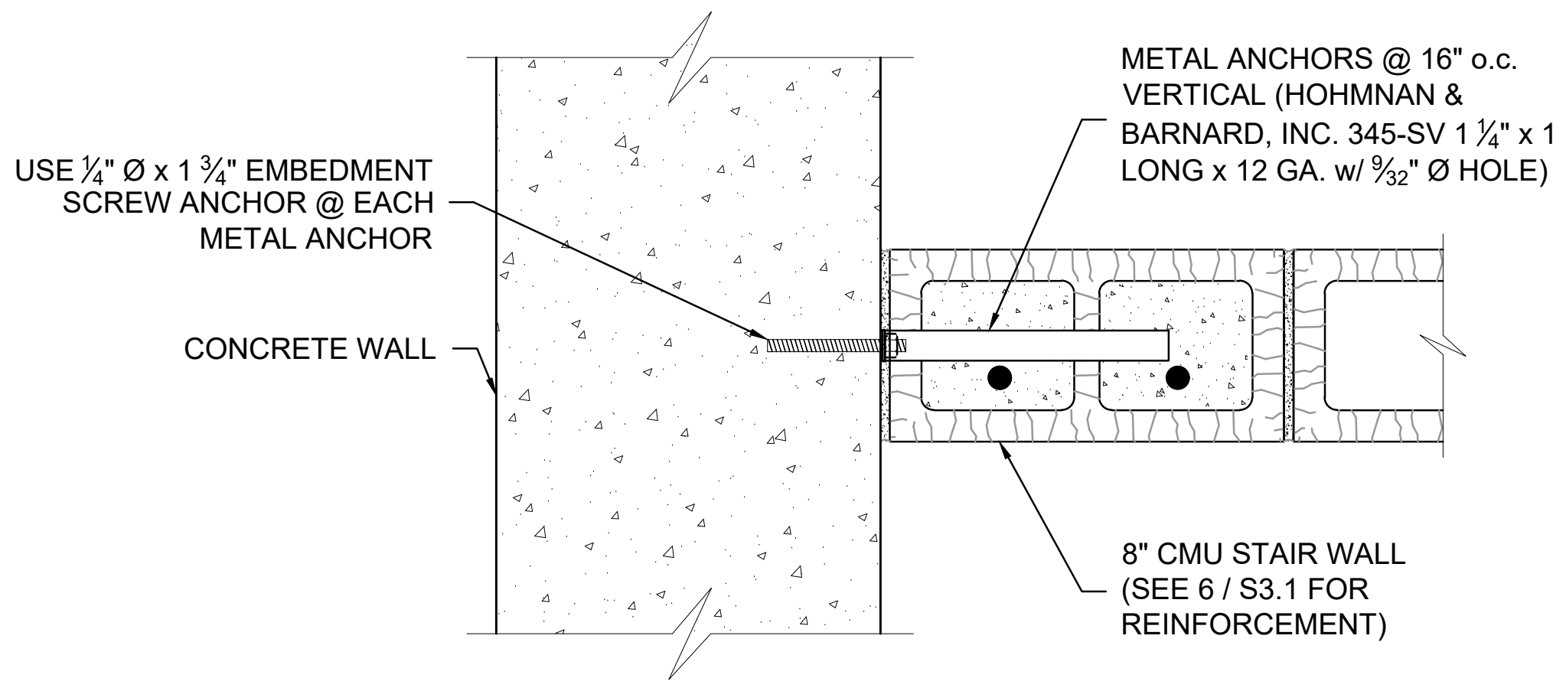

TRENCH
PIPE, CONDUIT, ETC.
1 ½
1
MAX.
FOOTING
BOTTOM OF EXCAVATION FOR TRENCH OR BOTTOM OF ADJACENT FOOTING

NOTES:

1. LOWER FOOTING AS REQUIRED TO PROVIDE MAXIMUM 1 ½ : 1 SLOPE FROM BOTTOM EDGE OF FOOTING TO BOTTOM OF TRENCH EXCAVATION, OR LOWER FOOTING SO THAT TOP OF FOOTING IS BELOW PIPE, CONDUIT, ETC.

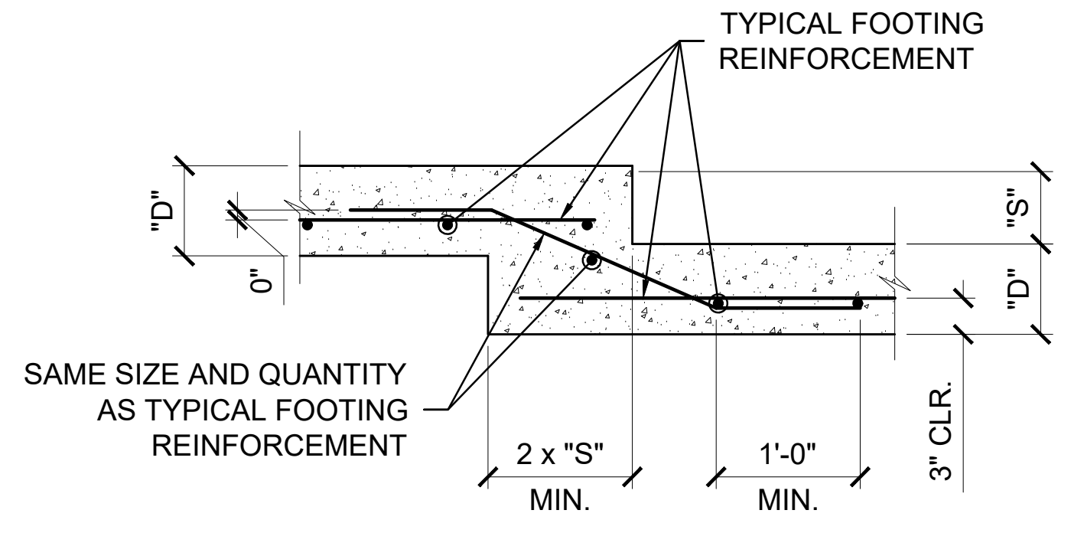
DETAIL OF TYPICAL FOUNDATION INFLUENCE 6 / S2.2

SCALE: NONE


METAL ANCHORS @ 16" o.c. VERTICAL (HOHMNAN & BARNARD, INC. 345-SV 1 ¼" x 12" LONG x 12 GA. w/ 9⁄32" Ø HOLE)
USE ¼" Ø x 1 ¾" EMBEDMENT SCREW ANCHOR @ EACH METAL ANCHOR
CONCRETE WALL
8" CMU STAIR WALL (SEE 6 / S3.1 FOR REINFORCEMENT)

DETAIL OF 8" CMU WALL ATTACHMENT TO CONCRETE WALL 7 / S2.2

SCALE: 1 ½" = 1'-0"


TYPICAL FOOTING REINFORCEMENT
"D"
0"
"S"
"D"
SAME SIZE AND QUANTITY AS TYPICAL FOOTING REINFORCEMENT
2 x "S" MIN.
1'-0" MIN.
3" CLR.

NOTES:

1. REINFORCING SHOWN FOR MASONRY WALL FOOTINGS. SEE SECTIONS AND DETAILS FOR ARRANGEMENT OF REINFORCING IN CONCRETE WALL FOOTINGS.
2. "S" DIMENSION = 2'-0" MAXIMUM.

DETAIL OF TYPICAL STEPPED FOOTING 8 / S2.2

SCALE: NONE

JENNIFER ZABIK
097626
09/28/22

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(407) 864-8120

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Self Storage Phase II

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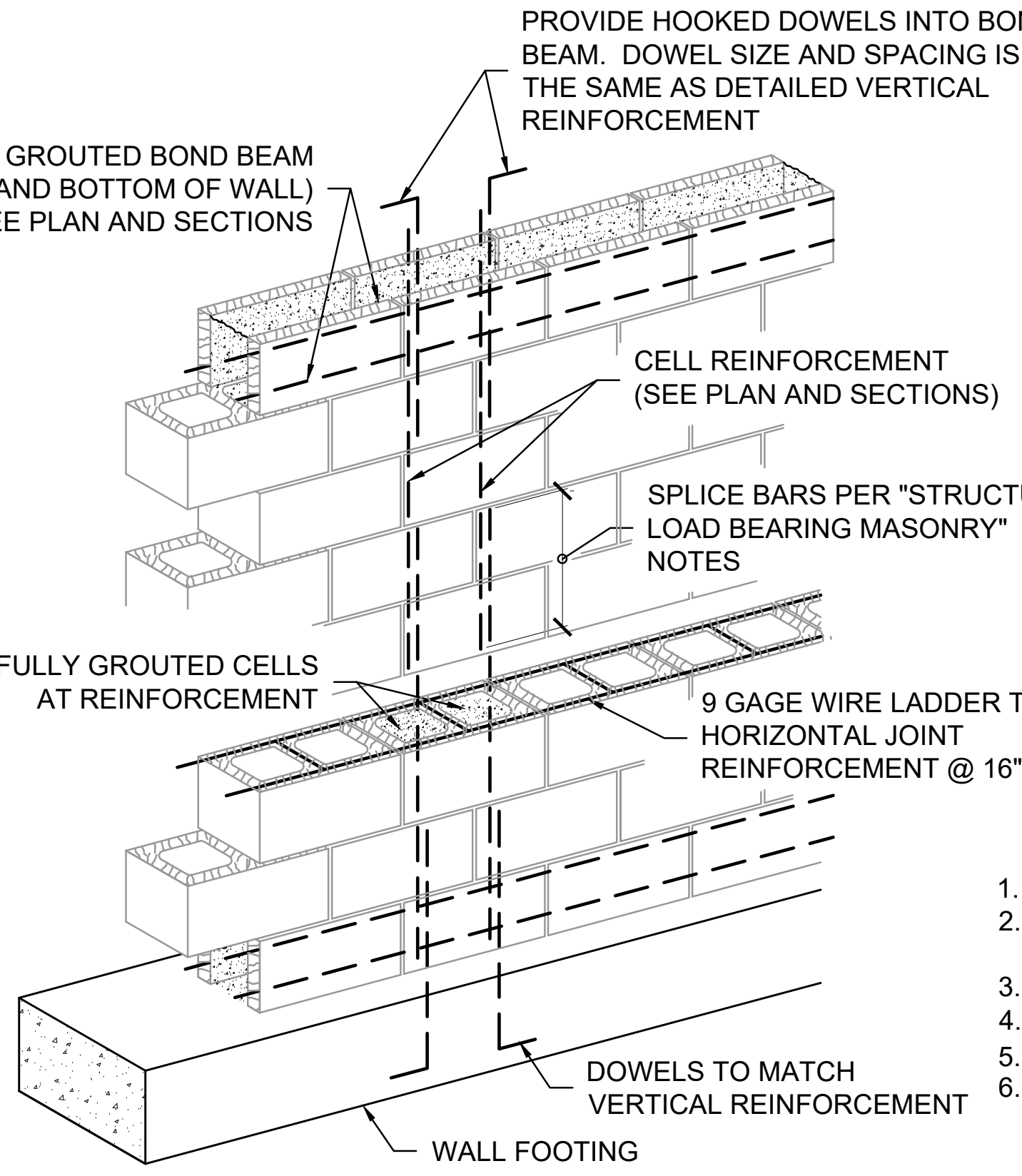
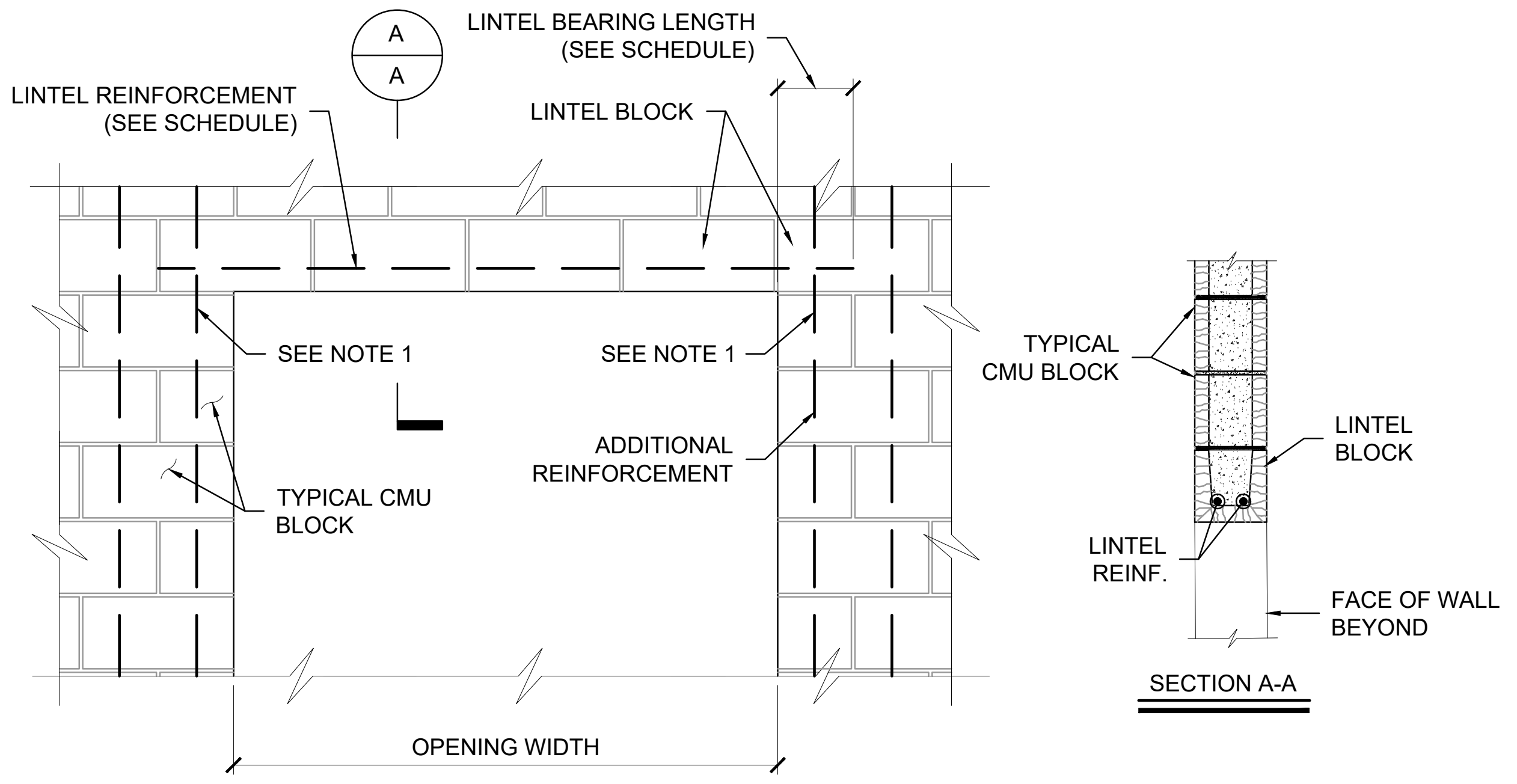

PROVIDE HOOKED DOWELS INTO BOND BEAM. DOWEL SIZE AND SPACING IS THE SAME AS DETAILED VERTICAL REINFORCEMENT
FULLY GROUTED BOND BEAM (AT TOP AND BOTTOM OF WALL) SEE PLAN AND SECTIONS
CELL REINFORCEMENT (SEE PLAN AND SECTIONS)
SPLICE BARS PER "STRUCTURAL LOAD BEARING MASONRY" NOTES
FULLY GROUTED CELLS AT REINFORCEMENT
9 GAGE WIRE LADDER TYPE HORIZONTAL JOINT REINFORCEMENT @ 16" o.c.
DOWELS TO MATCH VERTICAL REINFORCEMENT
WALL FOOTING

GROUTING PROCEDURE:

1. CONSTRUCT WALL TO A HEIGHT OF 5'-4".
2. ALLOW MORTAR TO SET SUFFICIENTLY TO WITHSTAND GROUT PRESSURE.
3. INSPECT UNITS FOR ALIGNMENT.
4. CLEAN OUT CELLS TO BE FILLED.
5. FILL CELLS TO 1 ½" BELOW TOP COURSE.
6. DELAY THREE TO FIVE MINUTES PRIOR TO CONSOLIDATING TO ALLOW WATER TO BE ABSORBED BY MASONRY.

DETAIL OF TYPICAL REINFORCED CMU WALL CONSTRUCTION 1 / S3.1

SCALE: NONE



NOTES:

1. CUT BOTTOM OF LINTEL BEAM OVER BEARING LENGTH TO ALLOW PASSAGE OF ADDITIONAL WALL REINFORCEMENT AND FLOW OF GROUT.

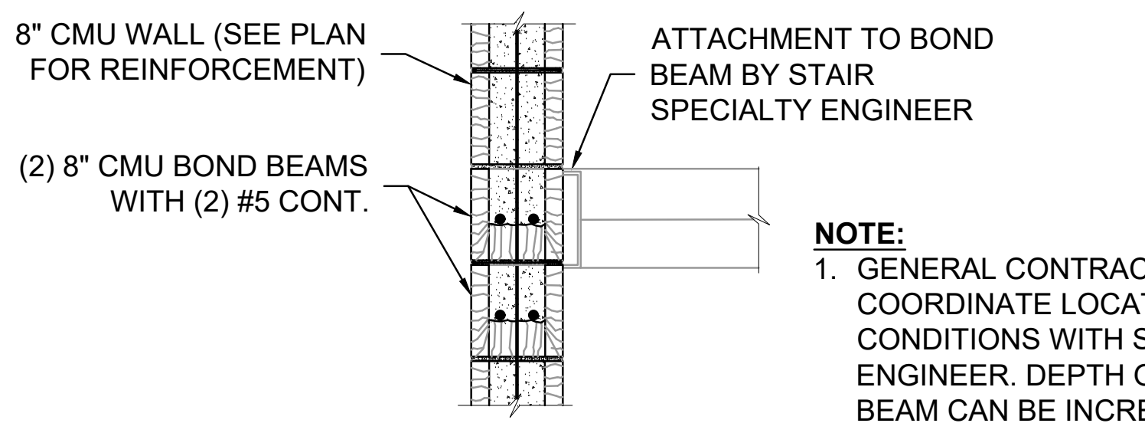
MASONRY WALL LINTEL SCHEDULE				
OPENING WIDTH		WALL DIMENSION AND REINFORCING		
		CONCRETE MASONRY UNIT		
MINIMUM	MAXIMUM	DEPTH	8" WALL	12" WALL
	2'-0"	7 ⅝"	(2) #4 BOTTOM	(2) #4 BOTTOM
2'-1"	3'-6"	7 ⅝"	(2) #4 BOTTOM	(2) #5 BOTTOM
3'-7"	5'-0"	7 ⅝"	(2) #5 BOTTOM	(2) #5 BOTTOM
5'-1"	6'-6"	7 ⅝"	(2) #6 BOTTOM	(2) #6 BOTTOM
6'-7"	8'-0"	7 ⅝"	(2) #6 BOTTOM	(2) #7 BOTTOM
M.B.1.		15 ⅝"	(2) #5 TOP & BOTTOM & #3 OPEN TIES @ 10" o.c.	

SCHEDULE NOTES:

1. 8" BEARING EACH END ON SOLIDLY GROUTED CELL EACH SIDE OF OPENING REINFORCED WITH #5 VERTICAL. SEE GENERAL NOTES FOR GROUT AND GROUT INSTALLATION INFORMATION.

DETAIL OF CMU WALL LINTEL 2 / S3.1

SCALE: ¾" = 1'-0"

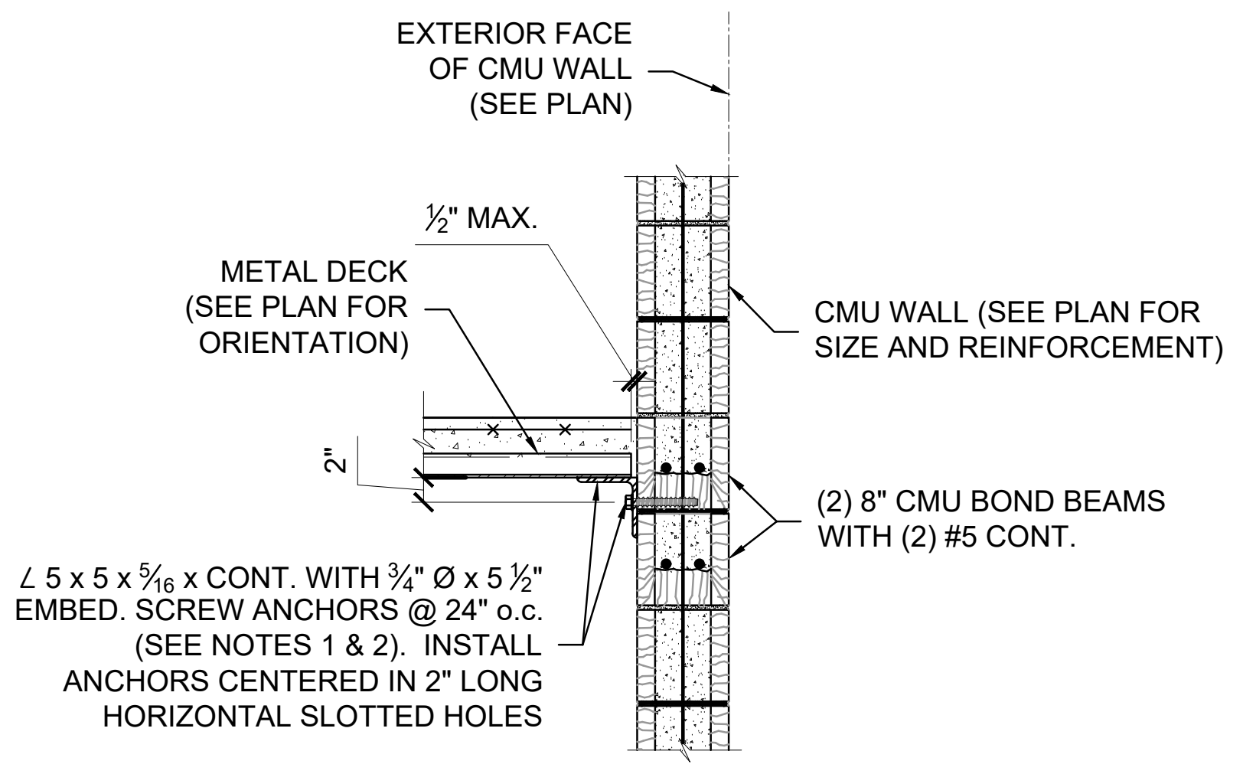

8" CMU WALL (SEE PLAN FOR REINFORCEMENT)
(2) 8" CMU BOND BEAMS WITH (2) #5 CONT.
ATTACHMENT TO BOND BEAM BY STAIR SPECIALTY ENGINEER

NOTE:

1. GENERAL CONTRACTOR TO COORDINATE LOCATIONS AND CONDITIONS WITH SPECIALTY ENGINEER. DEPTH OF 16" DEEP BOND BEAM CAN BE INCREASED IF NEEDED.

DETAIL OF TYPICAL STAIR LANDING SLAB SUPPORT AT CMU WALL 3 / S3.1

SCALE: ¾" = 1'-0"

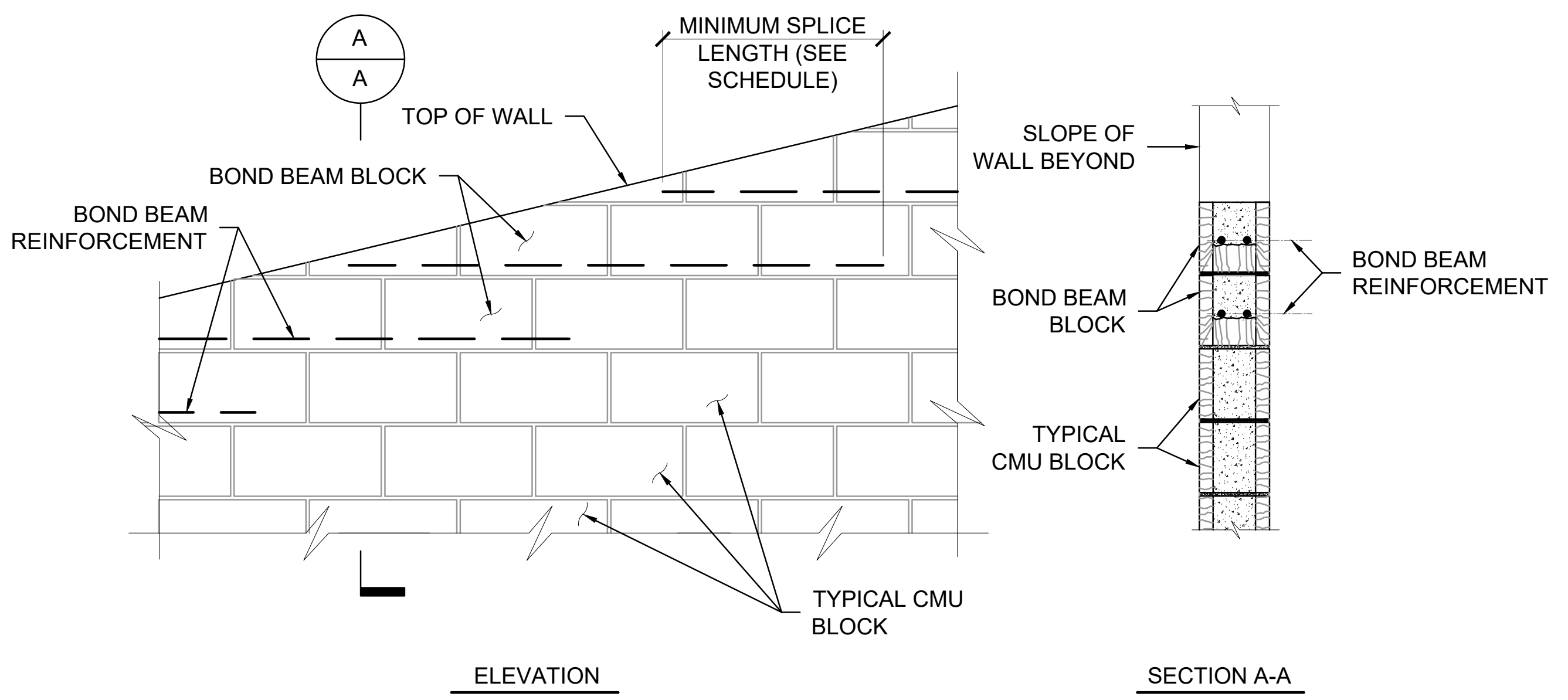

EXTERIOR FACE OF CMU WALL (SEE PLAN)
½" MAX.
METAL DECK (SEE PLAN FOR ORIENTATION)
2"
CMU WALL (SEE PLAN FOR SIZE AND REINFORCEMENT)
(2) 8" CMU BOND BEAMS WITH (2) #5 CONT.
∠ 5 x 5 x 5⁄16 x CONT. WITH ¾" Ø x 5 ½" EMBED. SCREW ANCHORS @ 24" o.c. (SEE NOTES 1 & 2). INSTALL ANCHORS CENTERED IN 2" LONG HORIZONTAL SLOTTED HOLES

NOTES:

1. LOCATE FIRST ANCHOR 10" AWAY FROM VERTICAL CONCRETE EDGE AT WALL CORNERS.
2. DO NOT INSTALL ANCHORS WITHIN 1 ½" OF HEAD JOINT.

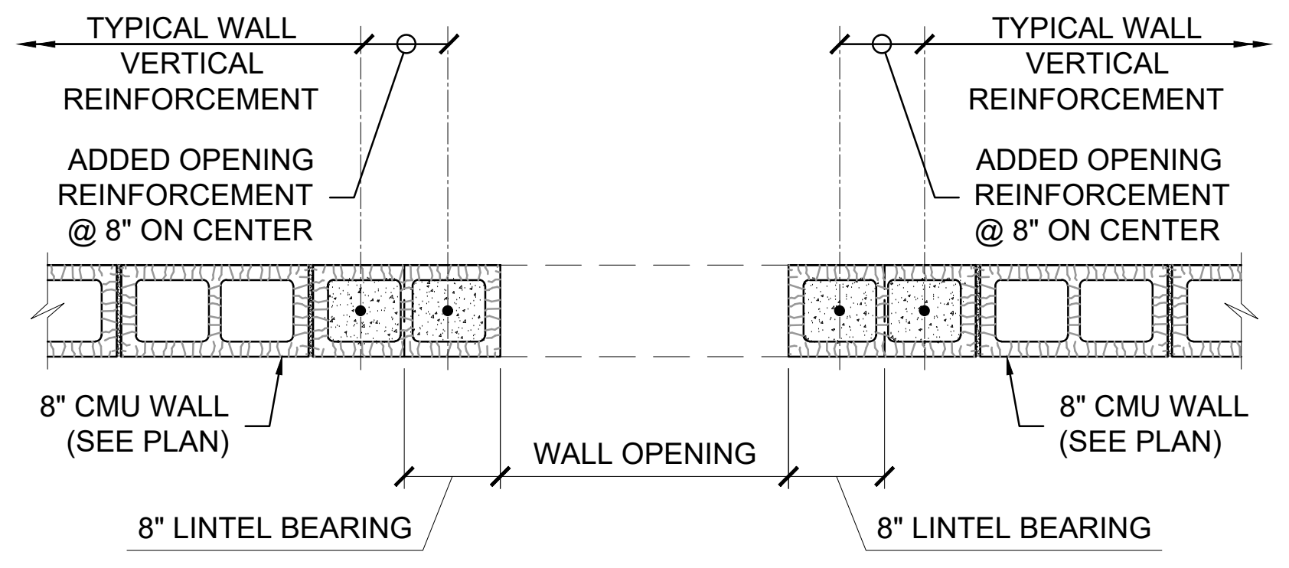
SECTION THRU FLOOR SLAB SUPPORT AT CMU WALL 4 / S3.1

SCALE: ¾" = 1'-0"

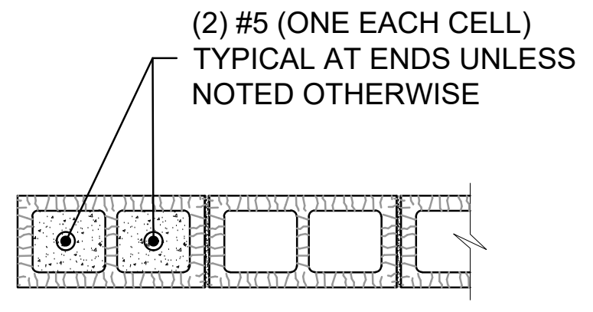


DETAIL OF BOND BEAM TRANSITION AT TOP OF SLOPING WALL 5 / S3.1

SCALE: NONE


TYPICAL WALL VERTICAL REINFORCEMENT
ADDED OPENING REINFORCEMENT @ 8" ON CENTER
TYPICAL WALL VERTICAL REINFORCEMENT
ADDED OPENING REINFORCEMENT @ 8" ON CENTER
8" CMU WALL (SEE PLAN)
8" CMU WALL (SEE PLAN)
WALL OPENING
8" LINTEL BEARING
8" LINTEL BEARING

ADDITIONAL VERTICAL REINFORCEMENT AT OPENINGS

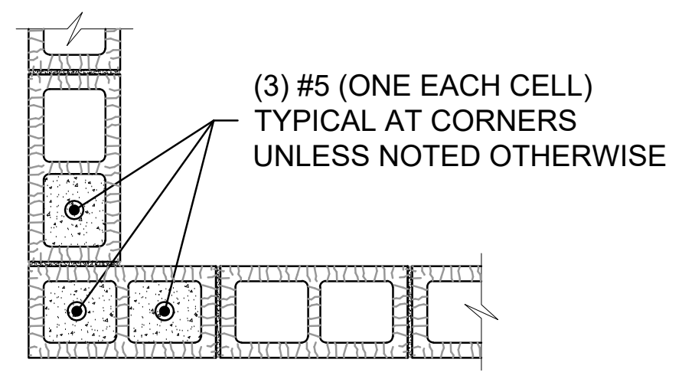

(2) #5 (ONE EACH CELL) TYPICAL AT ENDS UNLESS NOTED OTHERWISE

END REINFORCING DETAIL

ADDITIONAL REINFORCEMENT SCHEDULE	
OPENING SIZE	ADDED REINFORCEMENT (EACH SIDE)
OPENING ≤ 4'-0"	(2) #5 @ 8" o.c.
4'-0" < OPENING ≤ 12'-0"	(3) #5 @ 8" o.c.

NOTES:

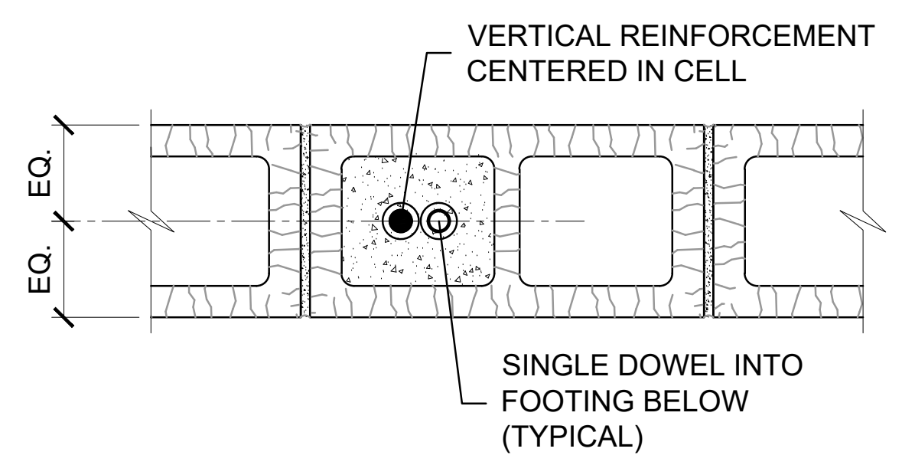
1. PROVIDE DOWELS OF SAME SIZE AND SPACING AS ADDED REINFORCEMENT.


(3) #5 (ONE EACH CELL) TYPICAL AT CORNERS UNLESS NOTED OTHERWISE

CORNER REINFORCING DETAIL

DETAIL OF ADDITIONAL VERTICAL REINFORCEMENT AT MASONRY WALLS 6 / S3.1

SCALE: ¾" = 1'-0"

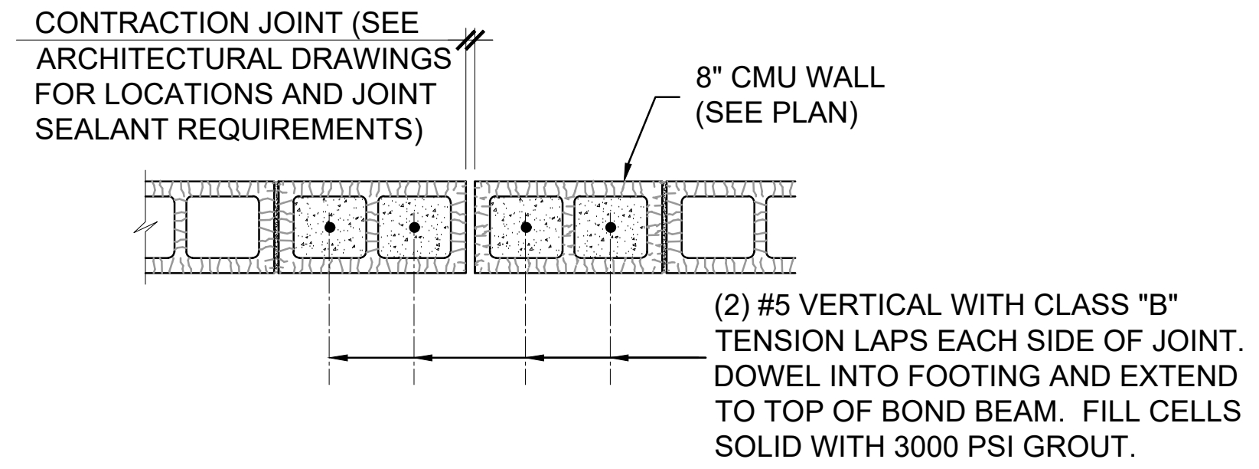

VERTICAL REINFORCEMENT CENTERED IN CELL
EQ.
EQ.
SINGLE DOWEL INTO FOOTING BELOW (TYPICAL)

WITH REINFORCEMENT CENTERED IN CELL

(TYPICAL CONDITION, U.N.O.)

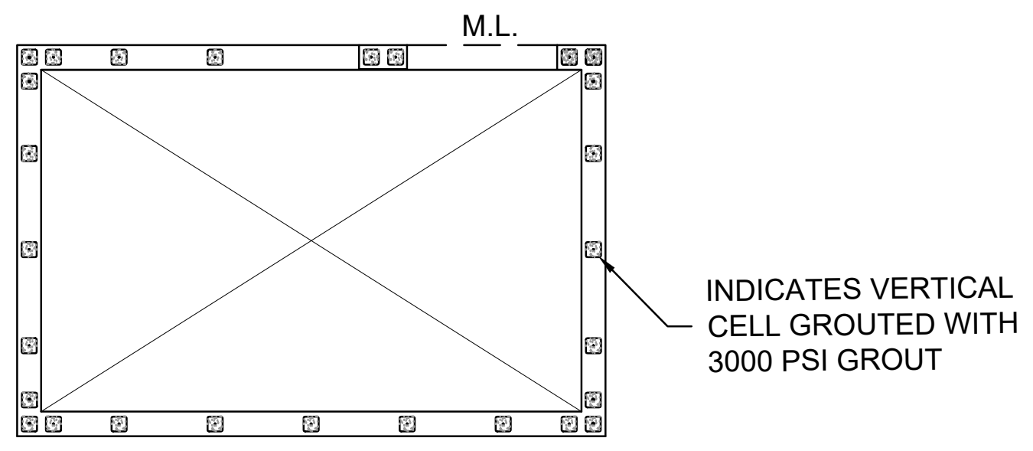
PLAN DETAIL OF TYPICAL REINFORCED MASONRY CONSTRUCTION 7 / S3.1

SCALE: NONE


CONTRACTION JOINT (SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND JOINT SEALANT REQUIREMENTS)
8" CMU WALL (SEE PLAN)
(2) #5 VERTICAL WITH CLASS "B" TENSION LAPS EACH SIDE OF JOINT. DOWEL INTO FOOTING AND EXTEND TO TOP OF BOND BEAM. FILL CELLS SOLID WITH 3000 PSI GROUT.

DETAIL OF TYPICAL MASONRY WALL CONTRACTION JOINT 8 / S3.1

SCALE: NONE

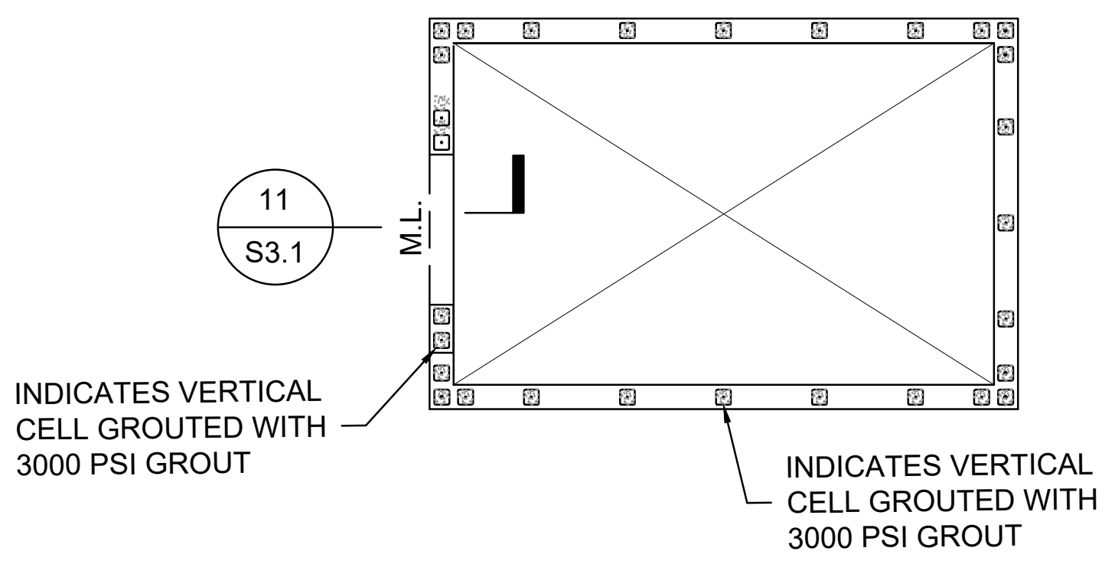


NOTES:

1. VERTICAL WALL REINFORCEMENT #5 @ 32" o.c. AS SHOWN FULL HEIGHT AT ALL LEVELS.
2. PROVIDE 16" DEEP BOND BEAM WITH (2) #5 CONTINUOUS TOP AND BOTTOM AT TOP OF WALL AND AT FLOOR LEVELS. PROVIDE 16" DEEP BOND BEAM WITH (2) #5 CONTINUOUS TOP AND BOTTOM AT STAIR LANDING LEVELS FOR ATTACHMENT OF POST INSTALLED SUPPORTS. COORDINATE LOCATION AND DETAILS WITH STAIR MANUFACTURER. PROVIDE CORNER BARS. INCREASE BOND BEAM DEPTH AS NEEDEDFOR COORDINATION WITH STAIR MANUFACTURER DETAILS.
3. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF OPENINGS.
4. M.L. INDICATES MASONRY LINTEL OVER OPENING BELOW. SEE LINTEL SCHEDULE ON 2 / S3.1.

PLAN DETAIL AT STAIR WALLS 9 / S3.1

SCALE: NONE

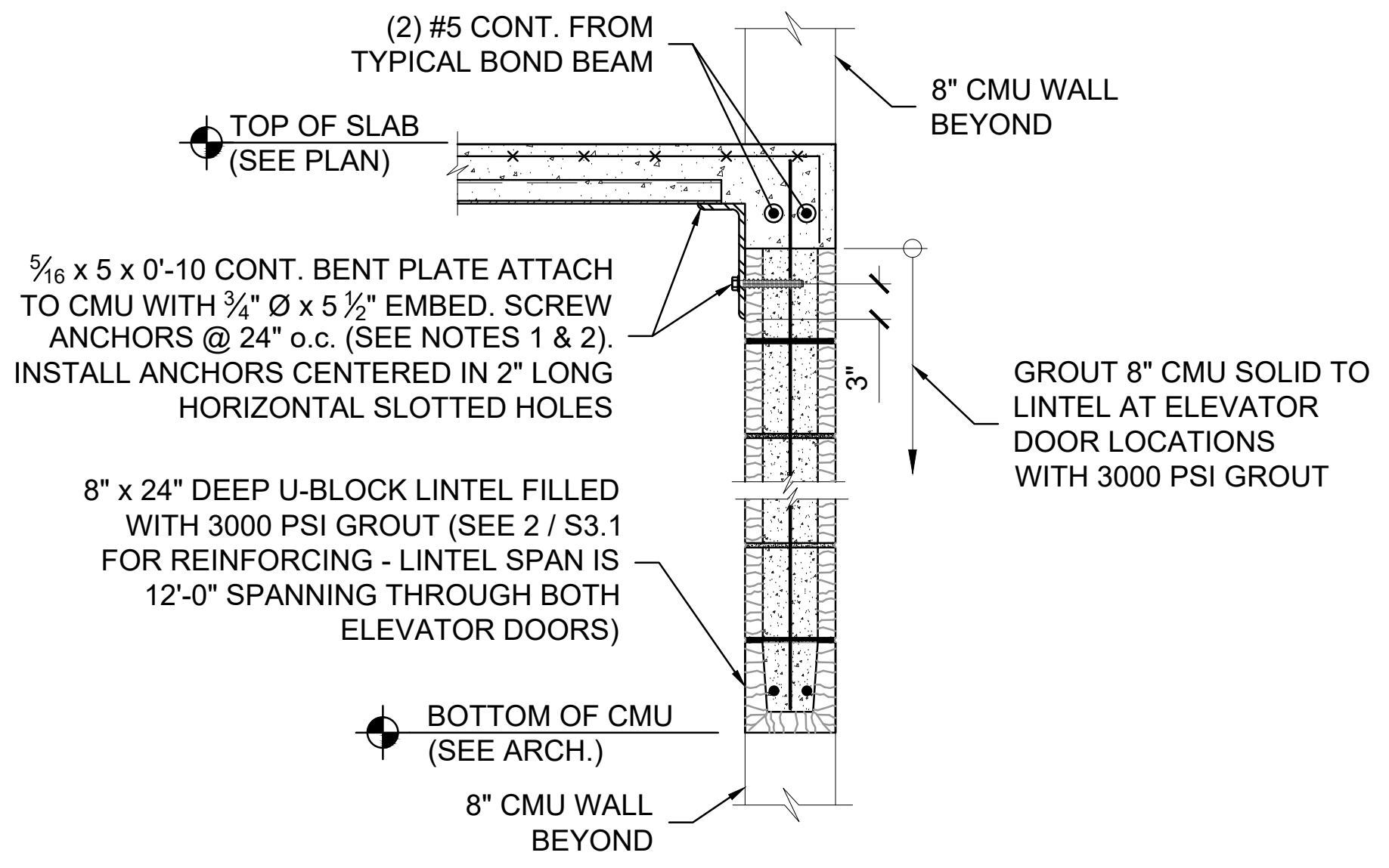

11
S3.1
M.L.
INDICATES VERTICAL CELL GROUTED WITH 3000 PSI GROUT
INDICATES VERTICAL CELL GROUTED WITH 3000 PSI GROUT

NOTES:

1. VERTICAL WALL REINFORCEMENT #5 @ 32" o.c. AS SHOWN FULL HEIGHT AT ALL LEVELS.
2. PROVIDE 16" DEEP BOND BEAM WITH (2) #5 CONTINUOUS TOP AND BOTTOM AT ALL FLOOR LEVELS, ROOF LEVEL, AND AT TOP OF WALL U.N.O. PROVIDE CORNER BARS.
3. SEE ARCHITECTURAL DRAWINGS FOR ORIENTATION AND EXACT LOCATION OF OPENINGS.
4. M.L. INDICATES MASONRY LINTEL OVER OPENING BELOW. SEE LINTEL SCHEDULE ON 2 / S3.1.

PLAN DETAIL AT ELEVATOR WALLS 10 / S3.1

SCALE: NONE


(2) #5 CONT. FROM TYPICAL BOND BEAM
TOP OF SLAB (SEE PLAN)
8" CMU WALL BEYOND
5⁄16 x 5 x 0'-10 CONT. BENT PLATE ATTACH TO CMU WITH ¾" Ø x 5 ½" EMBED. SCREW ANCHORS @ 24" o.c. (SEE NOTES 1 & 2). INSTALL ANCHORS CENTERED IN 2" LONG HORIZONTAL SLOTTED HOLES
3"
GROUT 8" CMU SOLID TO LINTEL AT ELEVATOR DOOR LOCATIONS WITH 3000 PSI GROUT
8" x 24" DEEP U-BLOCK LINTEL FILLED WITH 3000 PSI GROUT (SEE 2 / S3.1 FOR REINFORCING - LINTEL SPAN IS 12'-0" SPANNING THROUGH BOTH ELEVATOR DOORS)
BOTTOM OF CMU (SEE ARCH.)
8" CMU WALL BEYOND

NOTES:

1. LOCATE FIRST ANCHOR 10" AWAY FROM VERTICAL CONCRETE EDGE AT WALL CORNERS.
2. DO NOT INSTALL ANCHORS WITHIN 1 ½" OF HEAD JOINT.

SECTION THRU ELEVATOR DOOR 11 / S3.1

SCALE: ¾" = 1'-0"

ZTE

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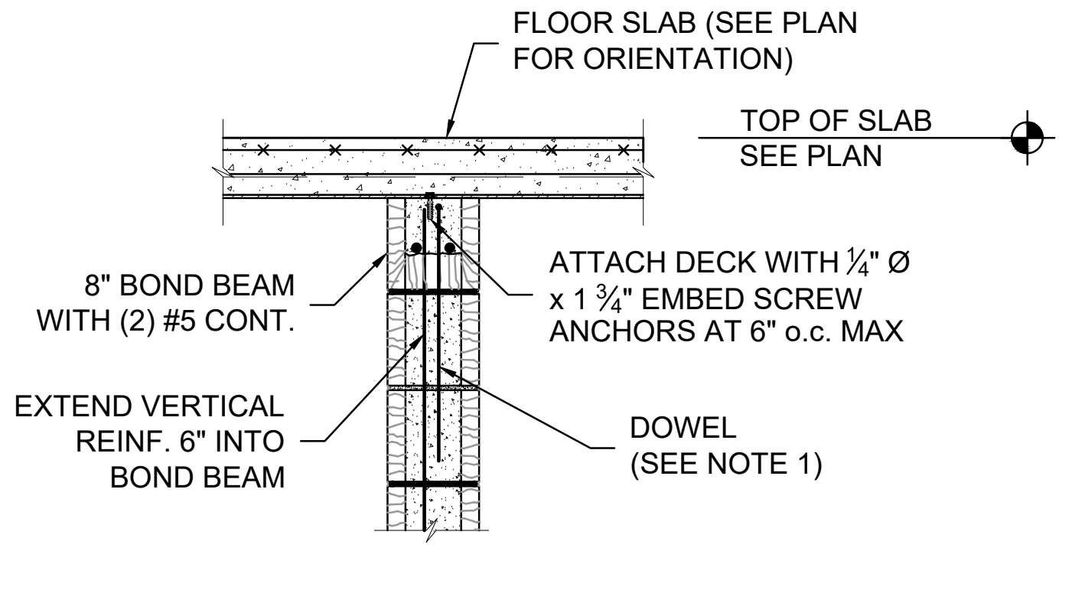
ISSUE: FOR CONSTRUCTION
REVISIONS:

PROJECT NUMBER 201941
DATE 9-28-22

JENNIFER ZABIK
097626
09/28/22

SHEET NUMBER
S3.1

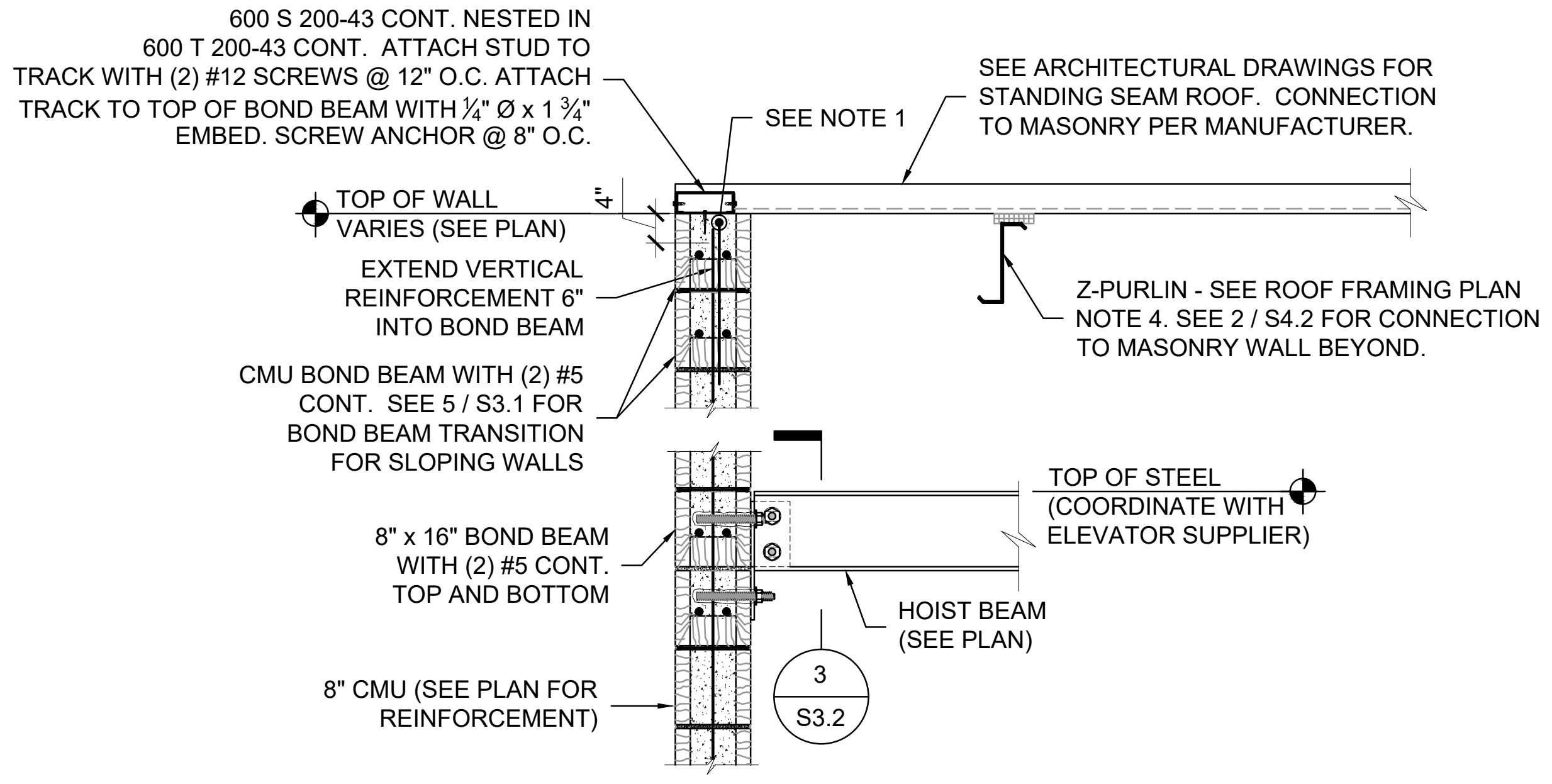


NOTES:

1. PROVIDE DOWEL (SAME SIZE AND SPACING AS WALL VERTICAL REINFORCEMENT) WITH STANDARD 90° HOOK AND MASONRY LAP SPLICE.(SEE 4 / S0.2).

SECTION THRU FLOOR DECK BEARING AT CMU WALL 1 / S3.2

SCALE: ¾" = 1'-0"

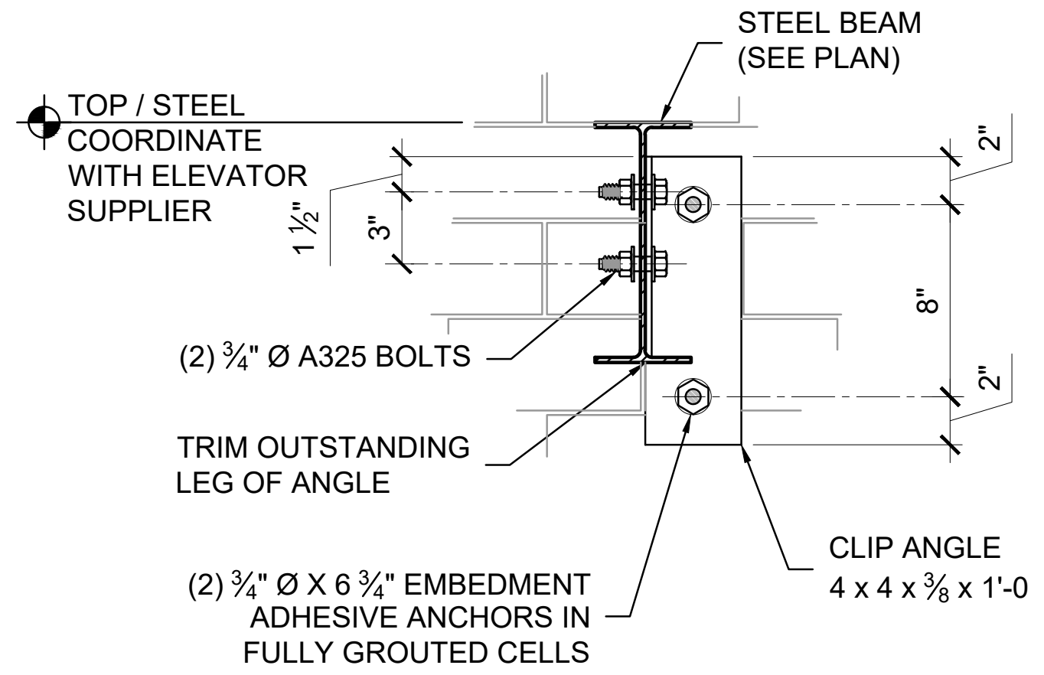

600 S 200-43 CONT. NESTED IN
600 T 200-43 CONT. ATTACH STUD TO
TRACK WITH (2) #12 SCREWS @ 12" O.C. ATTACH
TRACK TO TOP OF BOND BEAM WITH ¼" Ø x 1 ¾"
EMBED. SCREW ANCHOR @ 8" O.C.
SEE NOTE 1
SEE ARCHITECTURAL DRAWINGS FOR
STANDING SEAM ROOF. CONNECTION
TO MASONRY PER MANUFACTURER.
TOP OF WALL
VARIES (SEE PLAN)
4"
EXTEND VERTICAL
REINFORCEMENT 6"
INTO BOND BEAM
Z-PURLIN - SEE ROOF FRAMING PLAN
NOTE 4. SEE 2 / S4.2 FOR CONNECTION
TO MASONRY WALL BEYOND.
CMU BOND BEAM WITH (2) #5
CONT. SEE 5 / S3.1 FOR
BOND BEAM TRANSITION
FOR SLOPING WALLS
TOP OF STEEL
(COORDINATE WITH
ELEVATOR SUPPLIER)
8" x 16" BOND BEAM
WITH (2) #5 CONT.
TOP AND BOTTOM
HOIST BEAM
(SEE PLAN)
3
S3.2
8" CMU (SEE PLAN FOR
REINFORCEMENT)

NOTES:

1. PROVIDE DOWEL (SAME SIZE AND SPACING AS WALL VERTICAL REINFORCEMENT) WITH STANDARD 90° HOOK AND MASONRY LAP SPLICE (SEE 4 / S0.2).
2. LOCATE FIRST ANCHOR 10" AWAY FROM VERTICAL CONCRETE EDGE AT WALL CORNERS.
3. DO NOT INSTALL ANCHORS WITHIN 1 ½" OF HEAD JOINT.

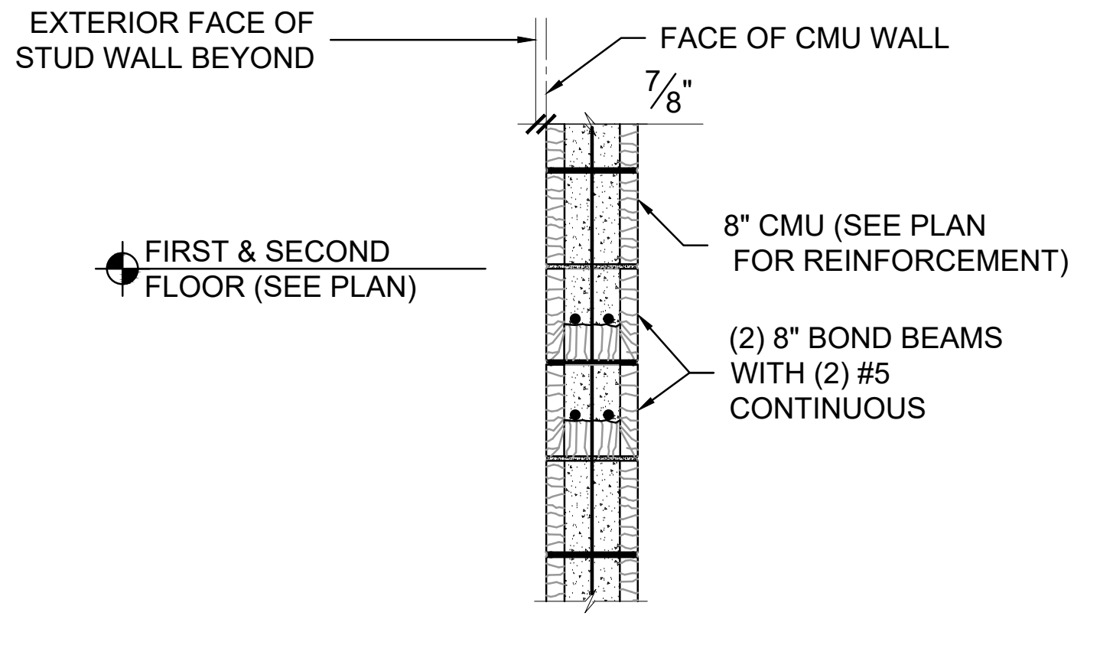
SECTION THRU HOIST BEAM SUPPORT AT 8" CMU WALL 2 / S3.2

SCALE: ¾" = 1'-0"



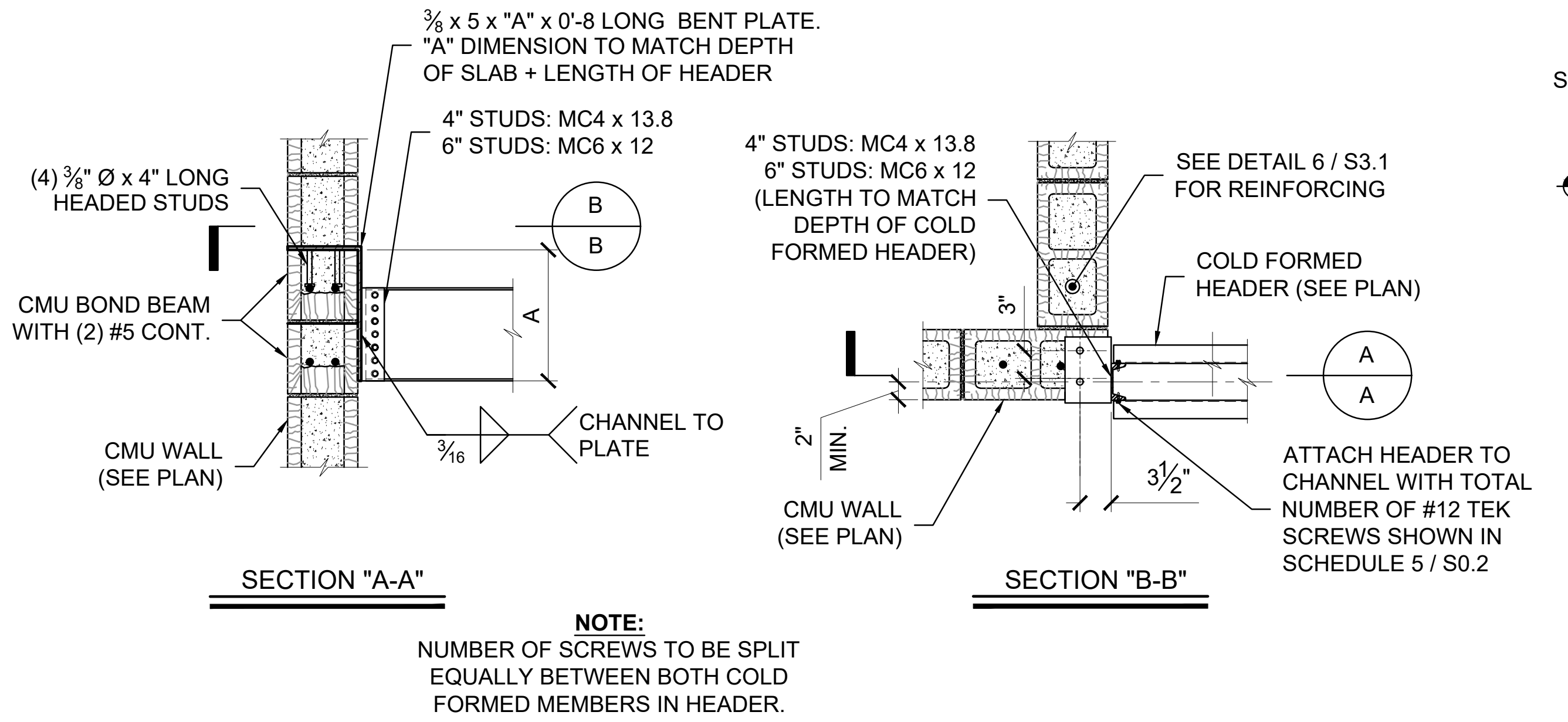
DETAIL OF ATTACHMENT OF HOIST BEAM TO CMU WALL 3 / S3.2

SCALE: ¾" = 1'-0"



SECTION THRU EXTERIOR STAIR WALL 4 / S3.2

SCALE: ¾" = 1'-0"



SECTION "A-A"

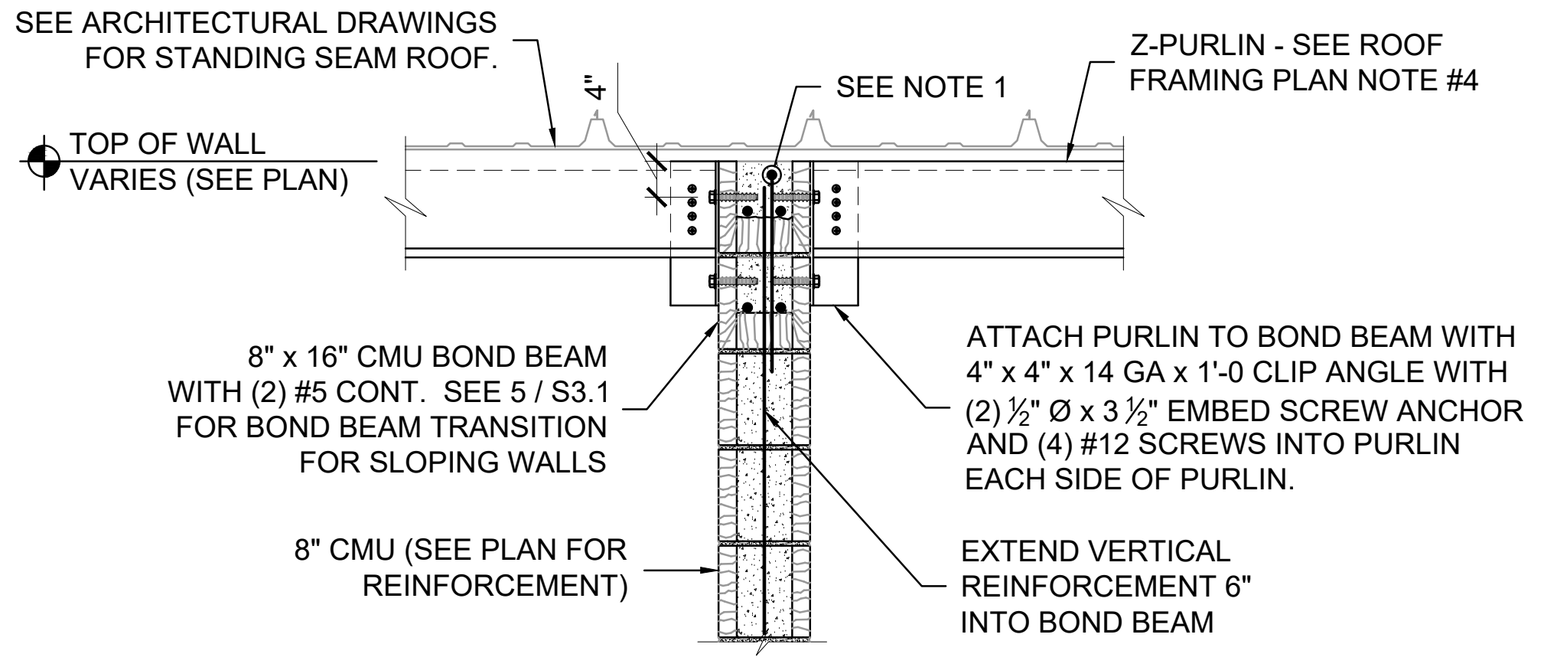
SECTION "B-B"

NOTE:

NUMBER OF SCREWS TO BE SPLIT EQUALLY BETWEEN BOTH COLD FORMED MEMBERS IN HEADER.

DETAIL OF COLD FORMED HEADER TO CMU WALL 5 / S3.2

SCALE: ¾" = 1'-0"

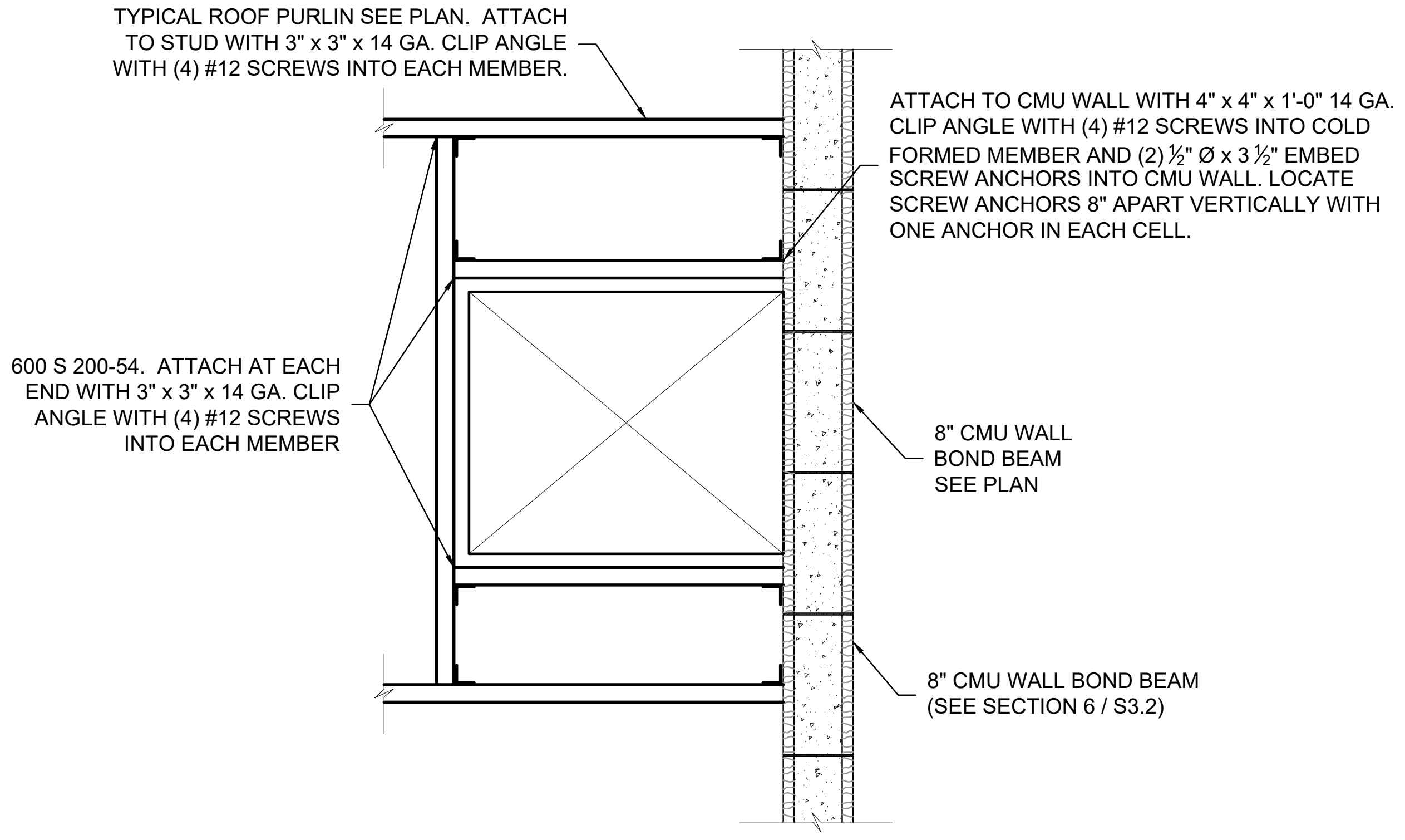


NOTES:

1. PROVIDE DOWEL (SAME SIZE AND SPACING AS WALL VERTICAL REINFORCEMENT) WITH STANDARD 90° HOOK AND MASONRY LAP SPLICE (SEE 4 / S0.2).
2. LOCATE FIRST ANCHOR 10" AWAY FROM VERTICAL CONCRETE EDGE AT WALL CORNERS.
3. DO NOT INSTALL ANCHORS WITHIN 1 ½" OF HEAD JOINT.

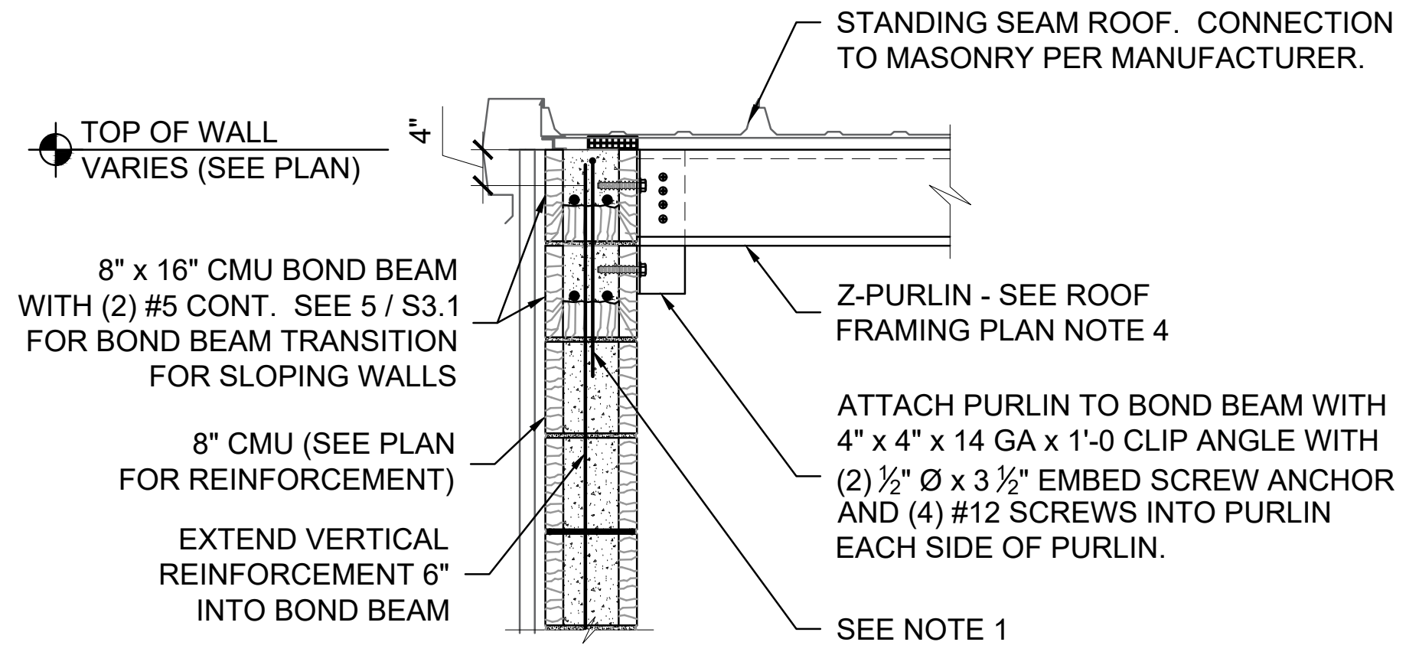
SECTION THRU Z-PURLIN ATTACHMENT TO INTERIOR CMU WALL 6 / S3.2

SCALE: ¾" = 1'-0"


TYPICAL ROOF PURLIN SEE PLAN. ATTACH
TO STUD WITH 3" x 3" x 14 GA. CLIP ANGLE
WITH (4) #12 SCREWS INTO EACH MEMBER.
ATTACH TO CMU WALL WITH 4" x 4" x 1'-0" 14 GA.
CLIP ANGLE WITH (4) #12 SCREWS INTO COLD
FORMED MEMBER AND (2) ½" Ø x 3 ½" EMBED
SCREW ANCHORS INTO CMU WALL. LOCATE
SCREW ANCHORS 8" APART VERTICALLY WITH
ONE ANCHOR IN EACH CELL.
600 S 200-54. ATTACH AT EACH
END WITH 3" x 3" x 14 GA. CLIP
ANGLE WITH (4) #12 SCREWS
INTO EACH MEMBER
8" CMU WALL
BOND BEAM
SEE PLAN
8" CMU WALL BOND BEAM
(SEE SECTION 6 / S3.2)

PLAN DETAIL OF ROOF HATCH FRAMING 7 / S3.2

SCALE: ¾" = 1'-0"

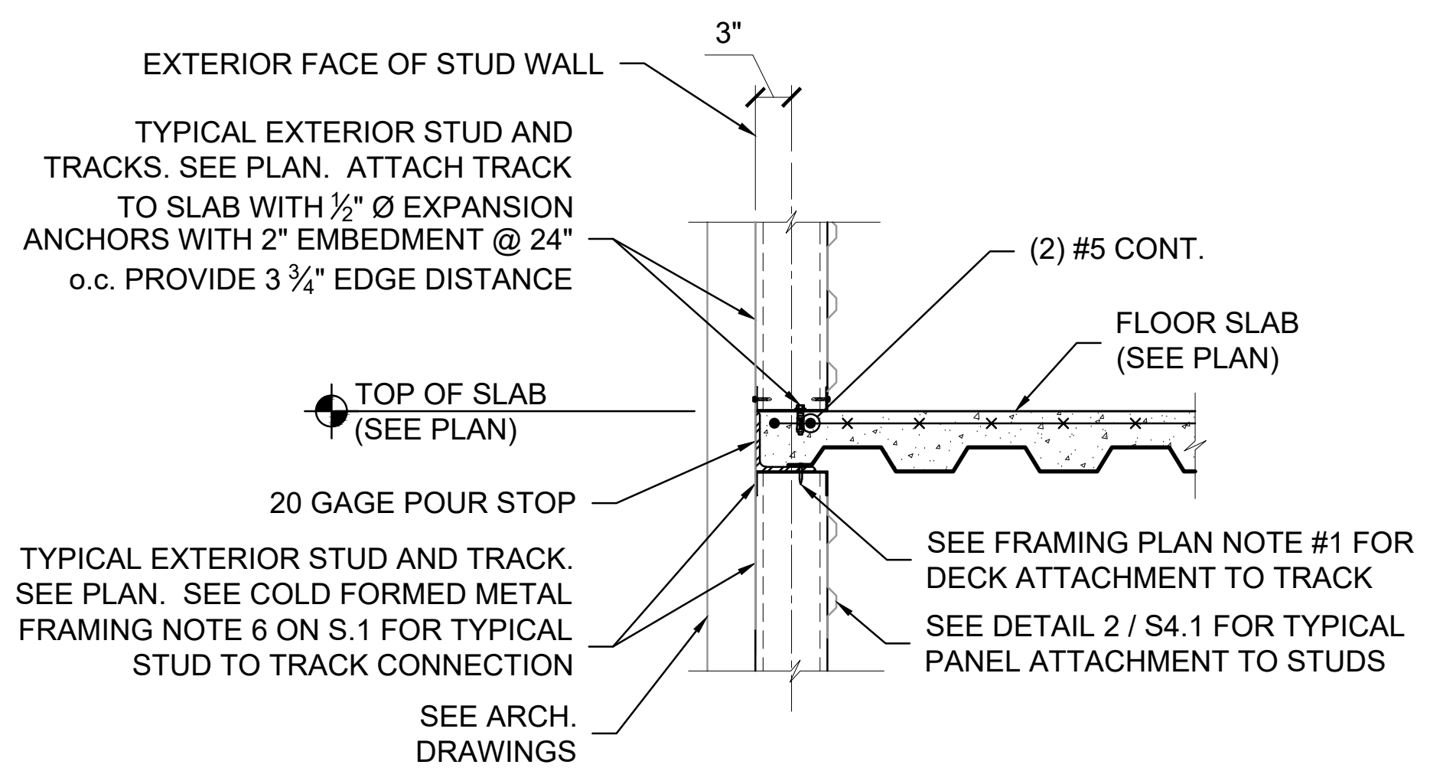

SEE ARCHITECTURAL DRAWINGS FOR
STANDING SEAM ROOF. CONNECTION
TO MASONRY PER MANUFACTURER.
TOP OF WALL
VARIES (SEE PLAN)
4"
8" x 16" CMU BOND BEAM
WITH (2) #5 CONT. SEE 5 / S3.1
FOR BOND BEAM TRANSITION
FOR SLOPING WALLS
Z-PURLIN - SEE ROOF
FRAMING PLAN NOTE 4
ATTACH PURLIN TO BOND BEAM WITH
4" x 4" x 14 GA x 1'-0 CLIP ANGLE WITH
(2) ½" Ø x 3 ½" EMBED SCREW ANCHOR
AND (4) #12 SCREWS INTO PURLIN
EACH SIDE OF PURLIN.
8" CMU (SEE PLAN
FOR REINFORCEMENT)
EXTEND VERTICAL
REINFORCEMENT 6"
INTO BOND BEAM
SEE NOTE 1

NOTES:

1. PROVIDE DOWEL (SAME SIZE AND SPACING AS WALL VERTICAL REINFORCEMENT) WITH STANDARD 90° HOOK AND MASONRY LAP SPLICE (SEE 4 / S0.2).
2. LOCATE FIRST ANCHOR 10" AWAY FROM VERTICAL CONCRETE EDGE AT WALL CORNERS.
3. DO NOT INSTALL ANCHORS WITHIN 1 ½" OF HEAD JOINT.

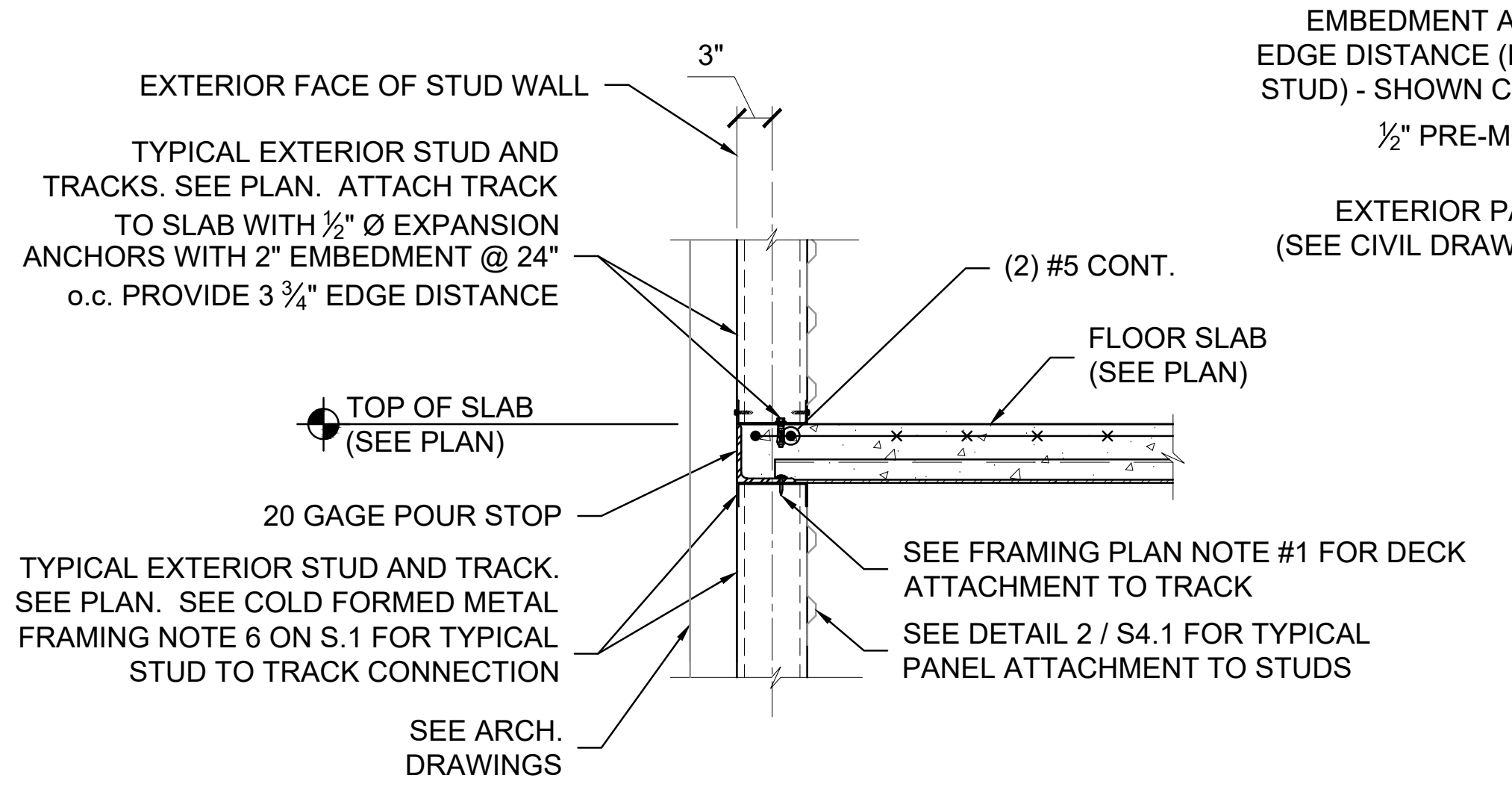
SECTION THRU EXTERIOR 8" CMU WALL 8 / S3.2

SCALE: ¾" = 1'-0"


3"
EXTERIOR FACE OF STUD WALL
TYPICAL EXTERIOR STUD AND
TRACKS. SEE PLAN. ATTACH TRACK
TO SLAB WITH ½" Ø EXPANSION
ANCHORS WITH 2" EMBEDMENT @ 24"
o.c. PROVIDE 3 ¾" EDGE DISTANCE
(2) #5 CONT.
FLOOR SLAB
(SEE PLAN)
TOP OF SLAB
(SEE PLAN)
20 GAGE POUR STOP
TYPICAL EXTERIOR STUD AND TRACK.
SEE PLAN. SEE COLD FORMED METAL
FRAMING NOTE 6 ON S.1 FOR TYPICAL
STUD TO TRACK CONNECTION
SEE FRAMING PLAN NOTE #1 FOR
DECK ATTACHMENT TO TRACK
SEE DETAIL 2 / S4.1 FOR TYPICAL
PANEL ATTACHMENT TO STUDS
SEE ARCH.
DRAWINGS

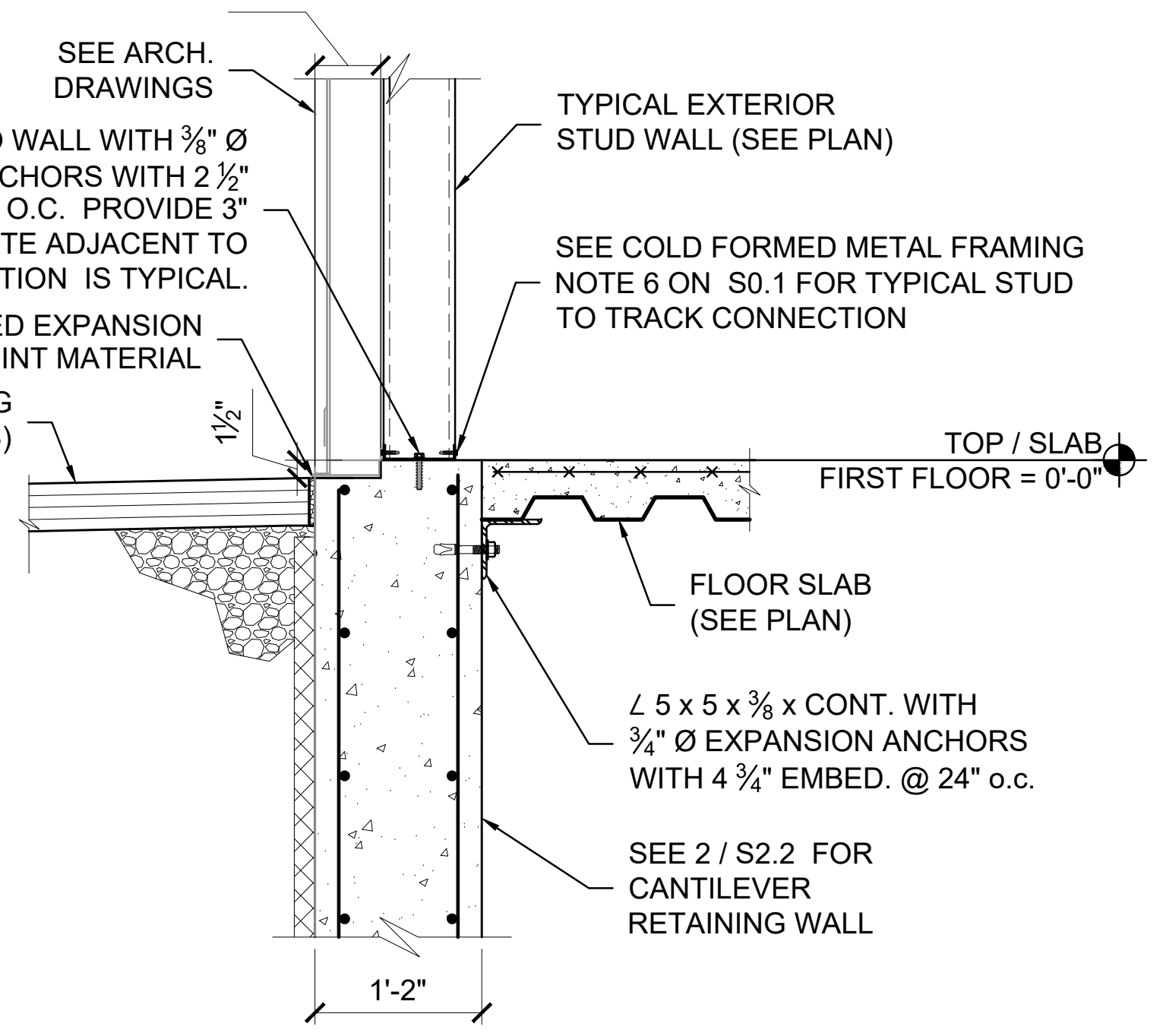
SECTION THRU EXTERIOR WALL 9 / S3.2

SCALE: ¾" = 1'-0"


3"
EXTERIOR FACE OF STUD WALL
TYPICAL EXTERIOR STUD AND
TRACKS. SEE PLAN. ATTACH TRACK
TO SLAB WITH ½" Ø EXPANSION
ANCHORS WITH 2" EMBEDMENT @ 24"
o.c. PROVIDE 3 ¾" EDGE DISTANCE
(2) #5 CONT.
FLOOR SLAB
(SEE PLAN)
TOP OF SLAB
(SEE PLAN)
20 GAGE POUR STOP
TYPICAL EXTERIOR STUD AND TRACK.
SEE PLAN. SEE COLD FORMED METAL
FRAMING NOTE 6 ON S.1 FOR TYPICAL
STUD TO TRACK CONNECTION
SEE FRAMING PLAN NOTE #1 FOR DECK
ATTACHMENT TO TRACK
SEE DETAIL 2 / S4.1 FOR TYPICAL
PANEL ATTACHMENT TO STUDS
SEE ARCH.
DRAWINGS

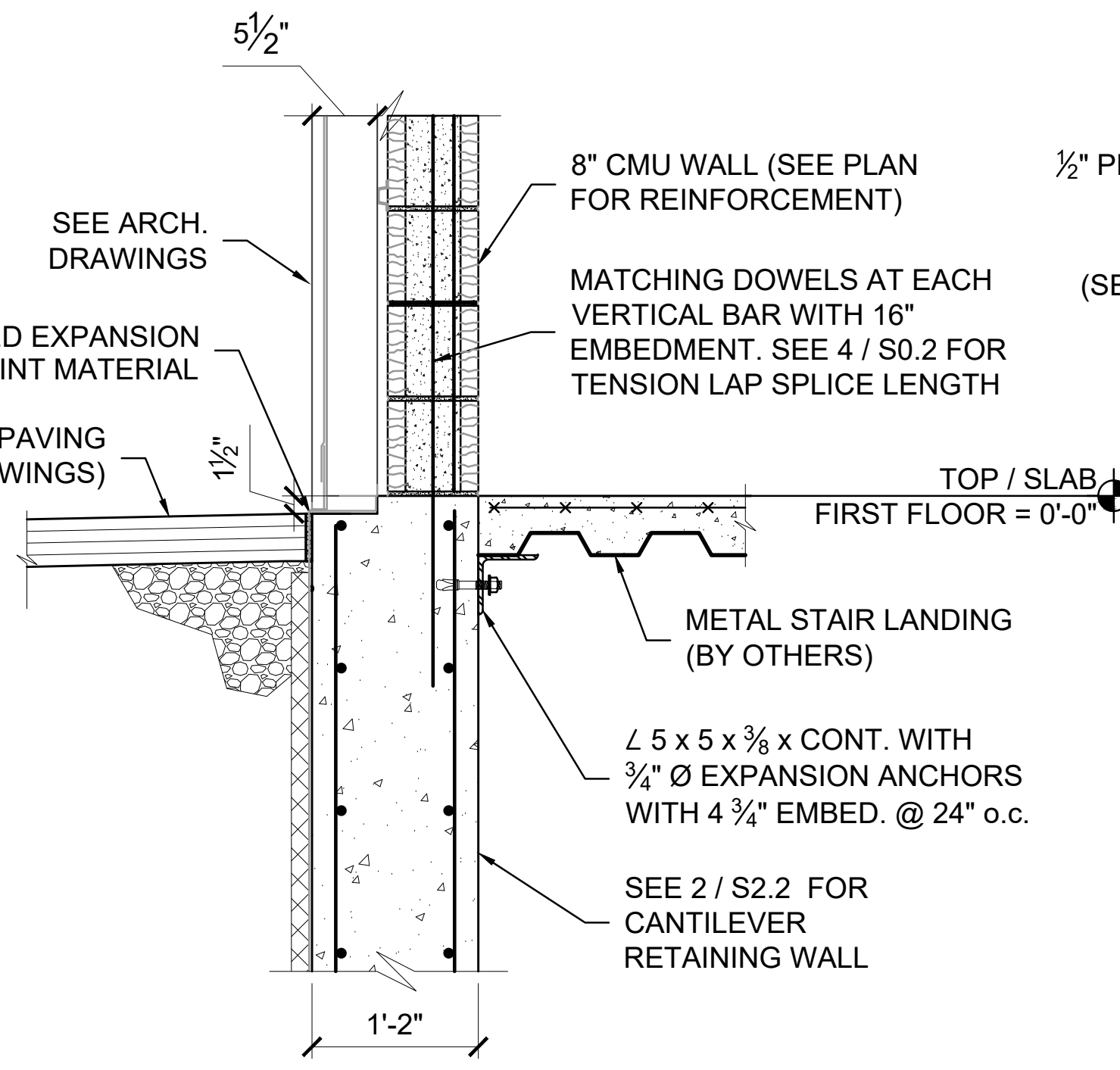
SECTION THRU EXTERIOR WALL 10 / S3.2

SCALE: ¾" = 1'-0"



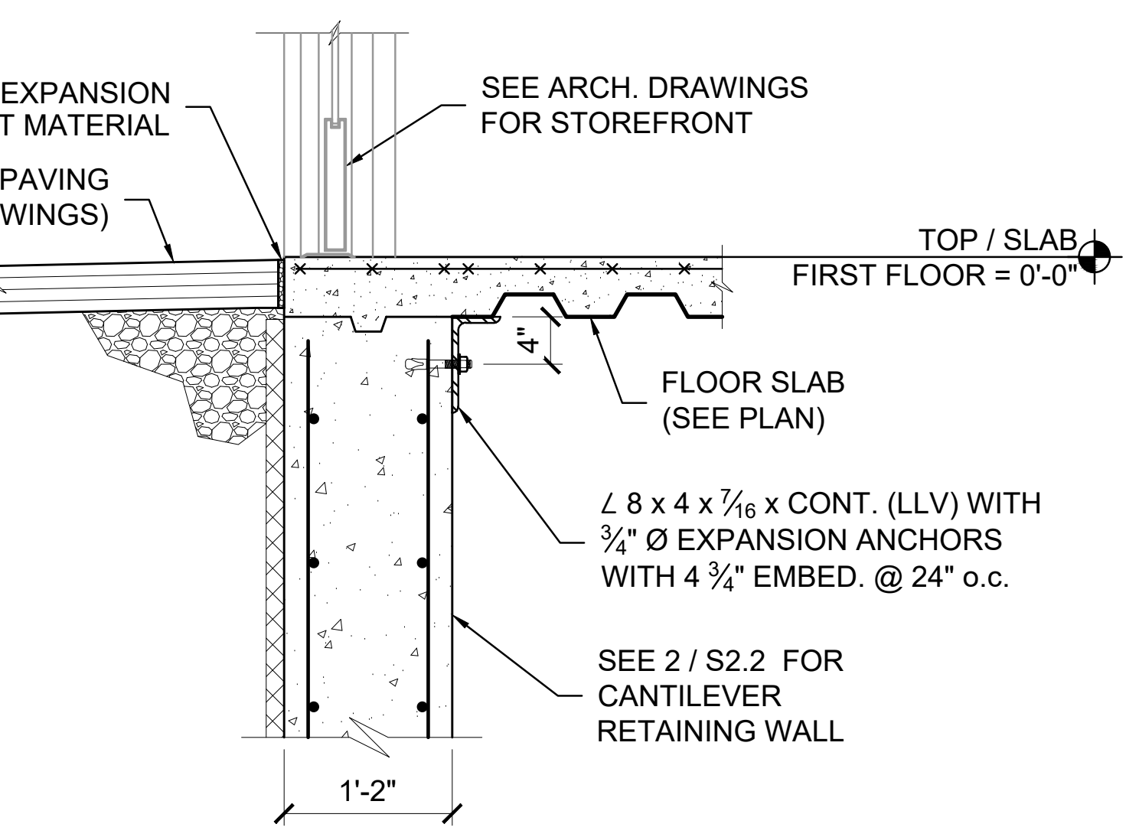
SECTION AT FULL HEIGHT WALL AT METAL STUD WALL 11 / S3.2

SCALE: ¾" = 1'-0"



SECTION AT FULL HEIGHT WALL AT STAIR 12 / S3.2

SCALE: ¾" = 1'-0"



SECTION AT FULL HEIGHT WALL AT STOREFRONT 13 / S2.2

SCALE: ¾" = 1'-0"

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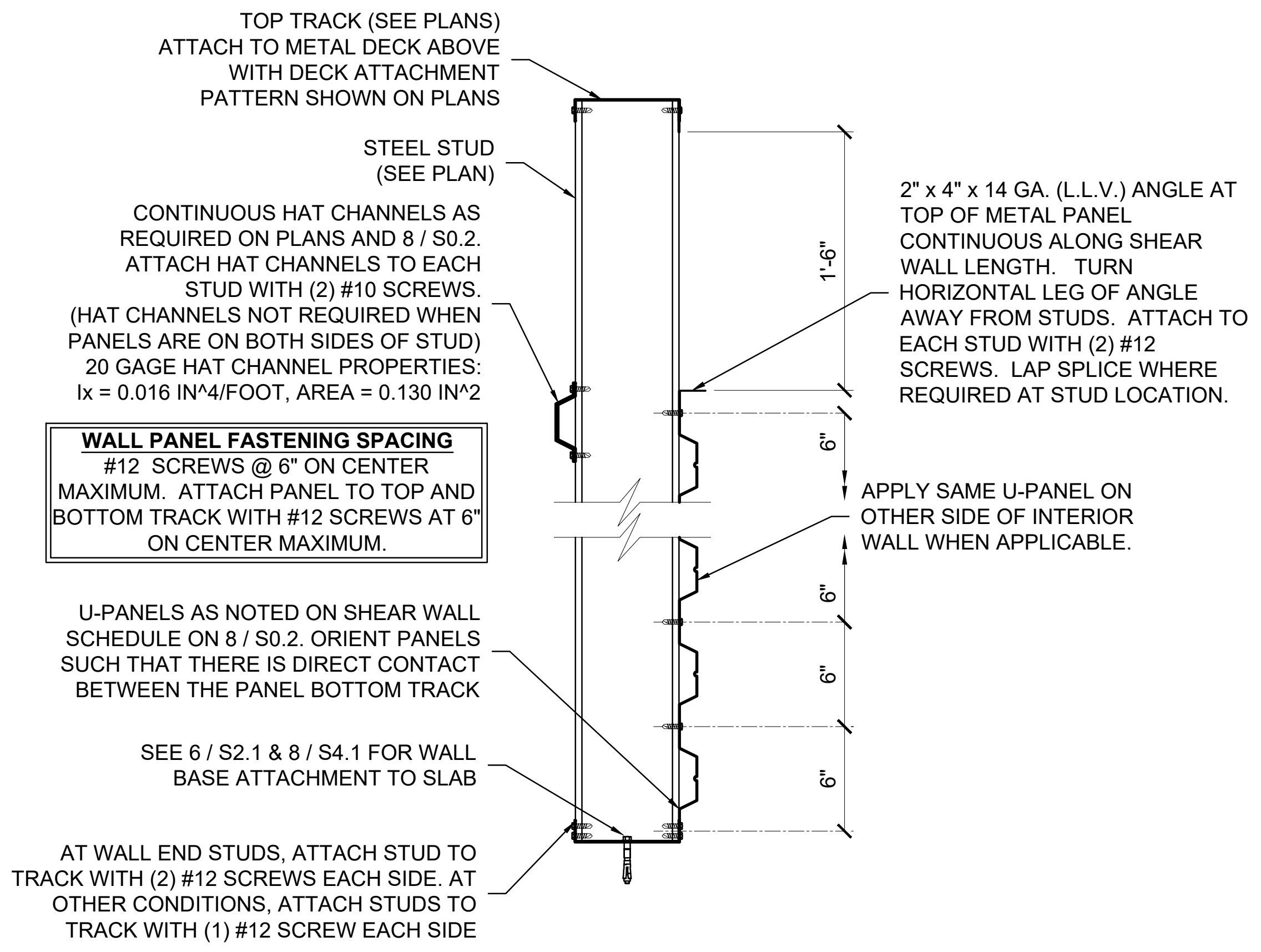
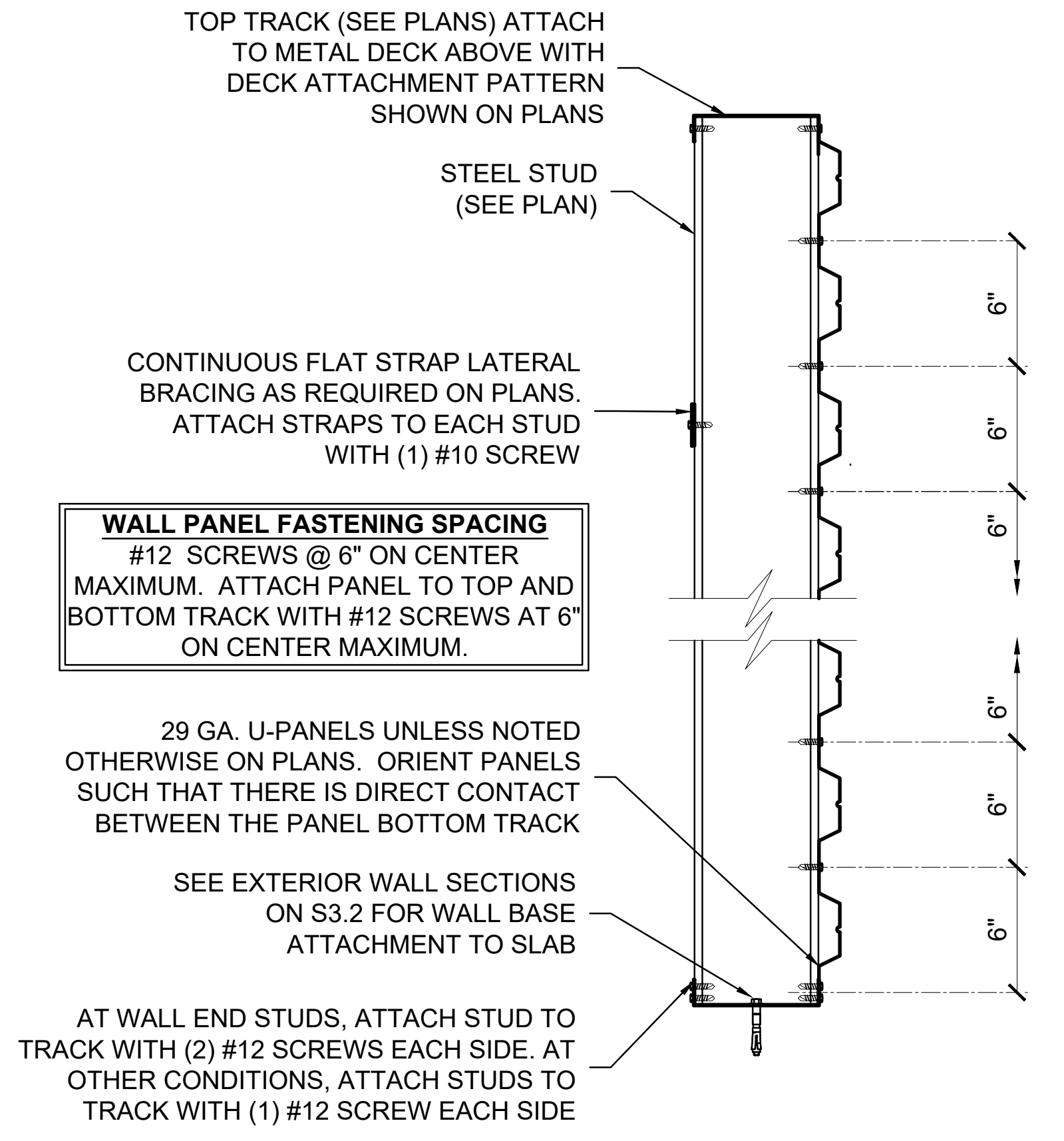
REVISIONS:

PROJECT NUMBER 201941
DATE 9-28-22

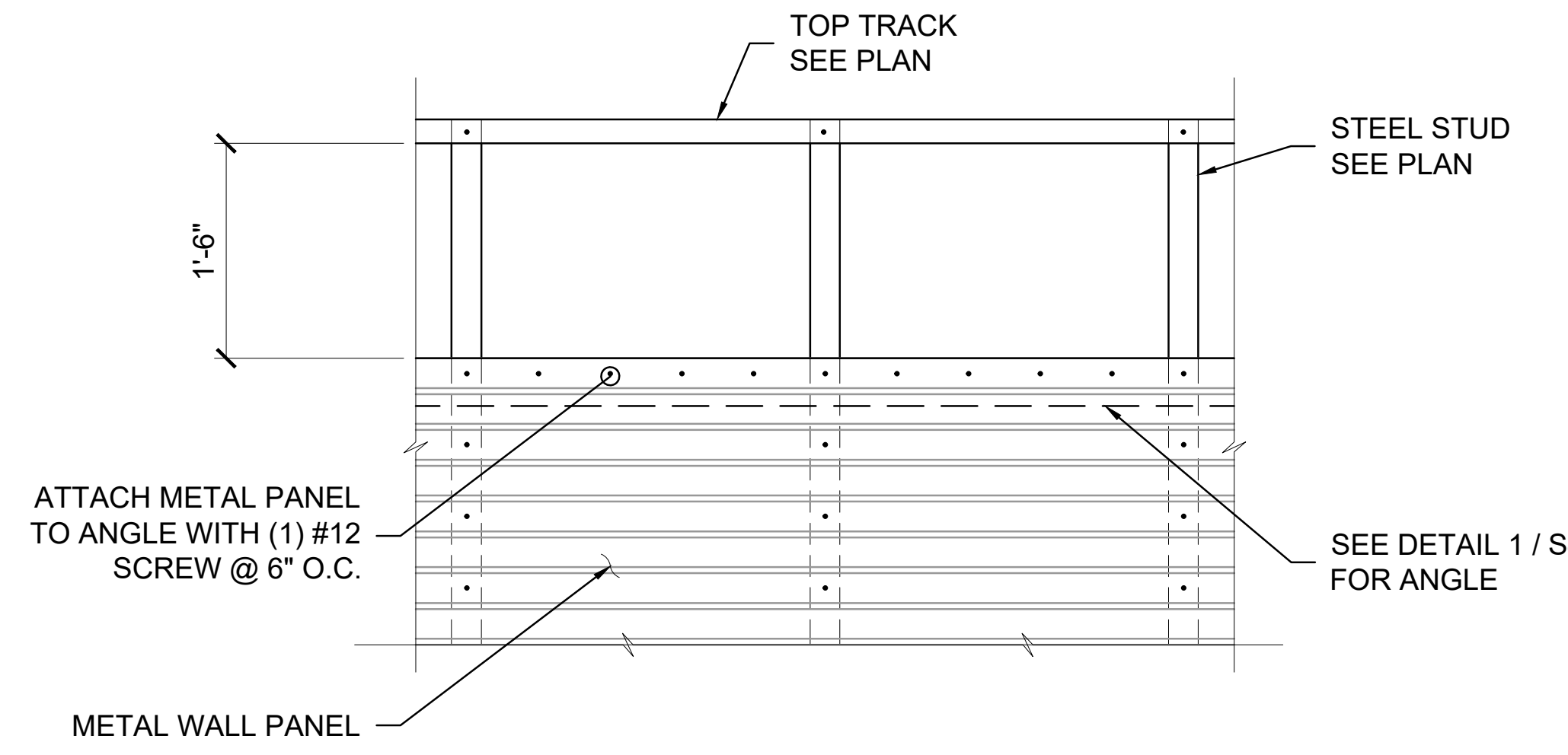
SHEET NUMBER
S3.2


TOP TRACK (SEE PLANS) ATTACH TO METAL DECK ABOVE WITH DECK ATTACHMENT PATTERN SHOWN ON PLANS
STEEL STUD (SEE PLAN)
CONTINUOUS HAT CHANNELS AS REQUIRED ON PLANS AND 8 / S0.2. ATTACH HAT CHANNELS TO EACH STUD WITH (2) #10 SCREWS. (HAT CHANNELS NOT REQUIRED WHEN PANELS ARE ON BOTH SIDES OF STUD) 20 GAGE HAT CHANNEL PROPERTIES: Ix = 0.016 IN^4/FOOT, AREA = 0.130 IN^2
WALL PANEL FASTENING SPACING
#12 SCREWS @ 6" ON CENTER MAXIMUM. ATTACH PANEL TO TOP AND BOTTOM TRACK WITH #12 SCREWS AT 6" ON CENTER MAXIMUM.
U-PANELS AS NOTED ON SHEAR WALL SCHEDULE ON 8 / S0.2. ORIENT PANELS SUCH THAT THERE IS DIRECT CONTACT BETWEEN THE PANEL BOTTOM TRACK
SEE 6 / S2.1 & 8 / S4.1 FOR WALL BASE ATTACHMENT TO SLAB
AT WALL END STUDS, ATTACH STUD TO TRACK WITH (2) #12 SCREWS EACH SIDE. AT OTHER CONDITIONS, ATTACH STUDS TO TRACK WITH (1) #12 SCREW EACH SIDE
1'-6"
6"
6"
6"
6"
2" x 4" x 14 GA. (L.L.V.) ANGLE AT TOP OF METAL PANEL CONTINUOUS ALONG SHEAR WALL LENGTH. TURN HORIZONTAL LEG OF ANGLE AWAY FROM STUDS. ATTACH TO EACH STUD WITH (2) #12 SCREWS. LAP SPLICE WHERE REQUIRED AT STUD LOCATION.
APPLY SAME U-PANEL ON OTHER SIDE OF INTERIOR WALL WHEN APPLICABLE.

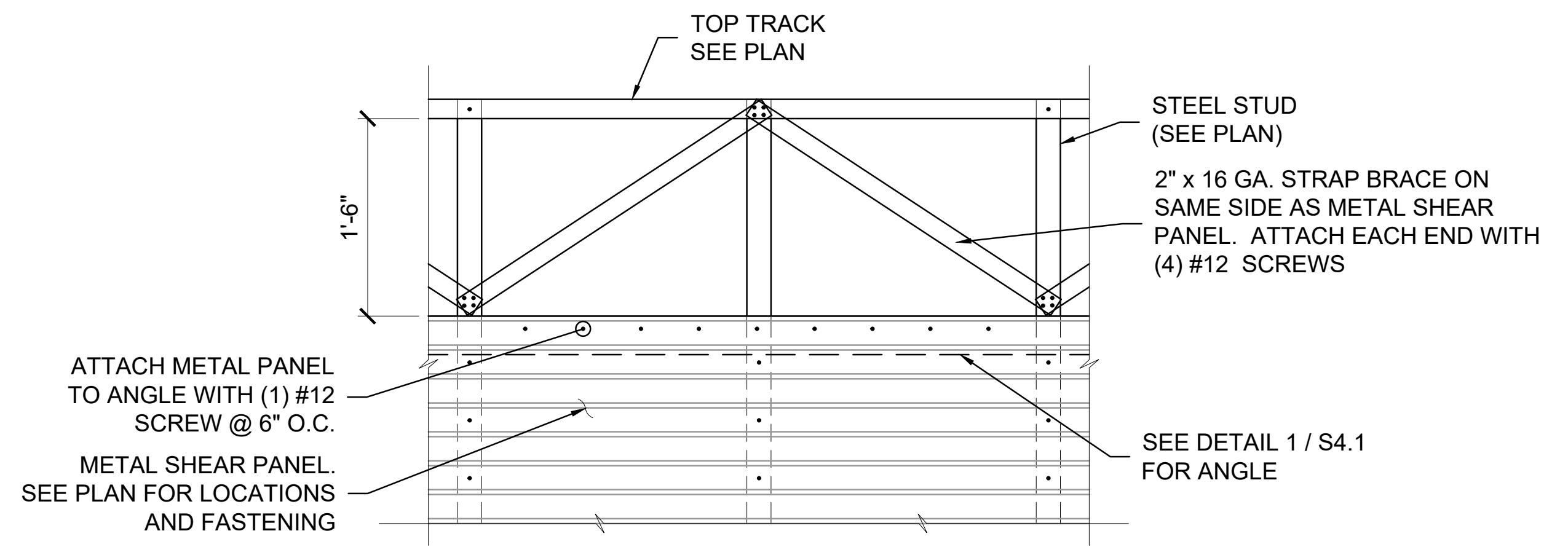
DETAIL OF WALL PANEL FASTENING PATTERN AT INTERIOR WALL 1 / S4.1
SCALE: 1 ½" = 1'-0"


TOP TRACK (SEE PLANS) ATTACH TO METAL DECK ABOVE WITH DECK ATTACHMENT PATTERN SHOWN ON PLANS
STEEL STUD (SEE PLAN)
CONTINUOUS FLAT STRAP LATERAL BRACING AS REQUIRED ON PLANS. ATTACH STRAPS TO EACH STUD WITH (1) #10 SCREW
WALL PANEL FASTENING SPACING
#12 SCREWS @ 6" ON CENTER MAXIMUM. ATTACH PANEL TO TOP AND BOTTOM TRACK WITH #12 SCREWS AT 6" ON CENTER MAXIMUM.
29 GA. U-PANELS UNLESS NOTED OTHERWISE ON PLANS. ORIENT PANELS SUCH THAT THERE IS DIRECT CONTACT BETWEEN THE PANEL BOTTOM TRACK
SEE EXTERIOR WALL SECTIONS ON S3.2 FOR WALL BASE ATTACHMENT TO SLAB
AT WALL END STUDS, ATTACH STUD TO TRACK WITH (2) #12 SCREWS EACH SIDE. AT OTHER CONDITIONS, ATTACH STUDS TO TRACK WITH (1) #12 SCREW EACH SIDE
6"
6"
6"
6"
6"
6"

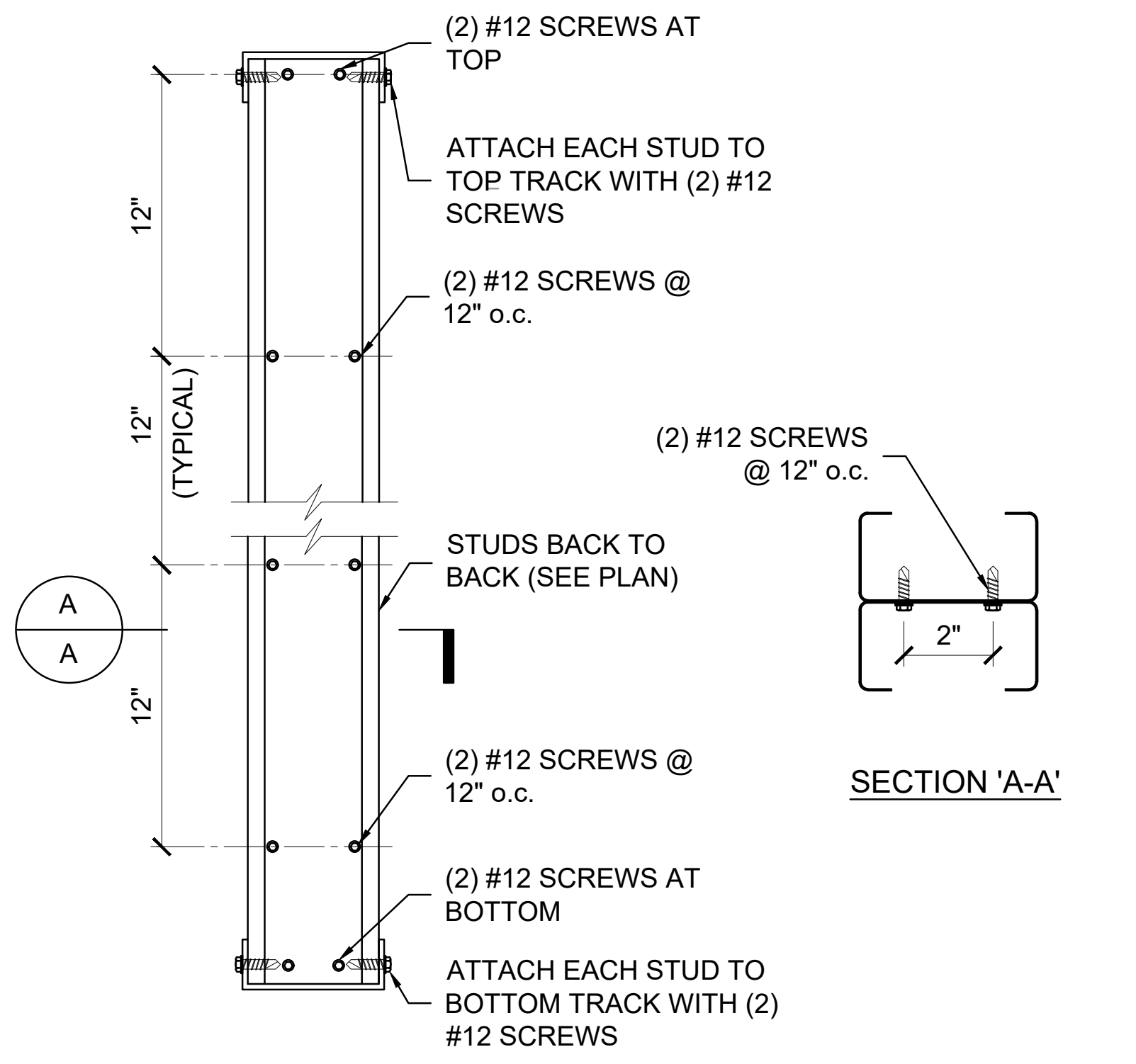
DETAIL OF WALL PANEL FASTENING PATTERN AT EXTERIOR WALL 2 / S4.1
SCALE: 1 ½" = 1'-0"


TOP TRACK SEE PLAN
STEEL STUD SEE PLAN
1'-6"
ATTACH METAL PANEL TO ANGLE WITH (1) #12 SCREW @ 6" O.C.
SEE DETAIL 1 / S4.1 FOR ANGLE
METAL WALL PANEL

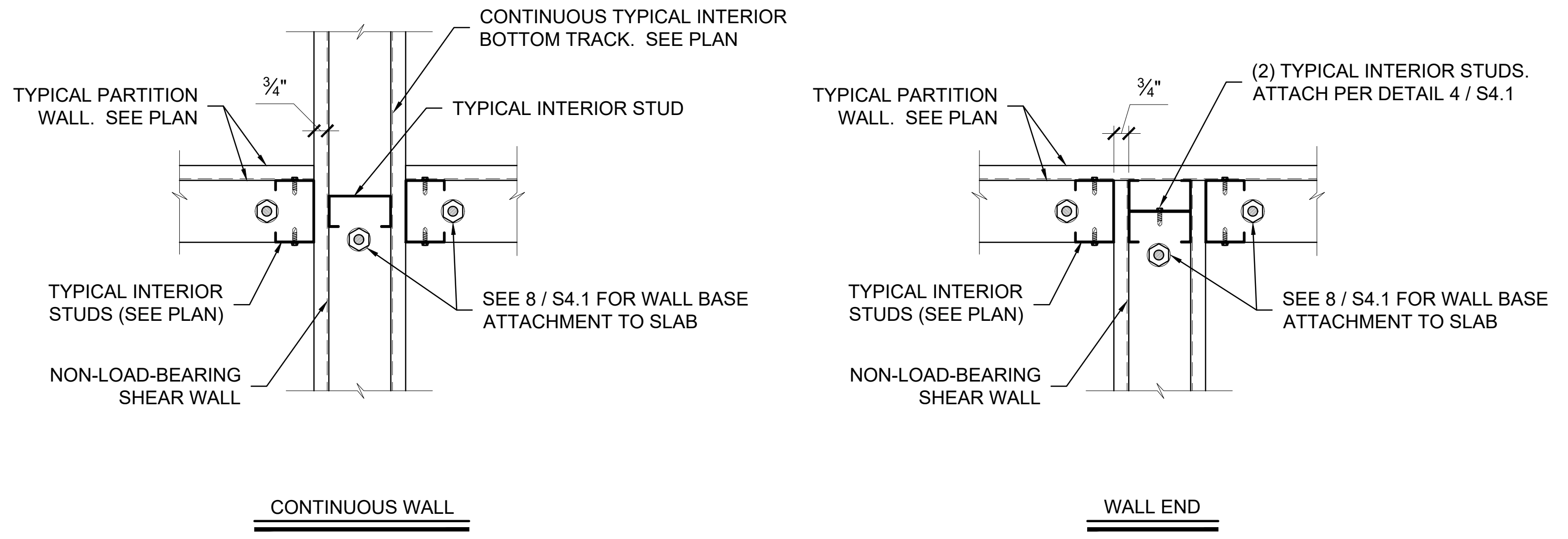
DETAIL OF SHEAR WALL CONSTRUCTION 3A / S4.1
SCALE: ¾"= 1'-0"


TOP TRACK SEE PLAN
STEEL STUD (SEE PLAN)
2" x 16 GA. STRAP BRACE ON SAME SIDE AS METAL SHEAR PANEL. ATTACH EACH END WITH (4) #12 SCREWS
1'-6"
ATTACH METAL PANEL TO ANGLE WITH (1) #12 SCREW @ 6" O.C.
METAL SHEAR PANEL. SEE PLAN FOR LOCATIONS AND FASTENING
SEE DETAIL 1 / S4.1 FOR ANGLE

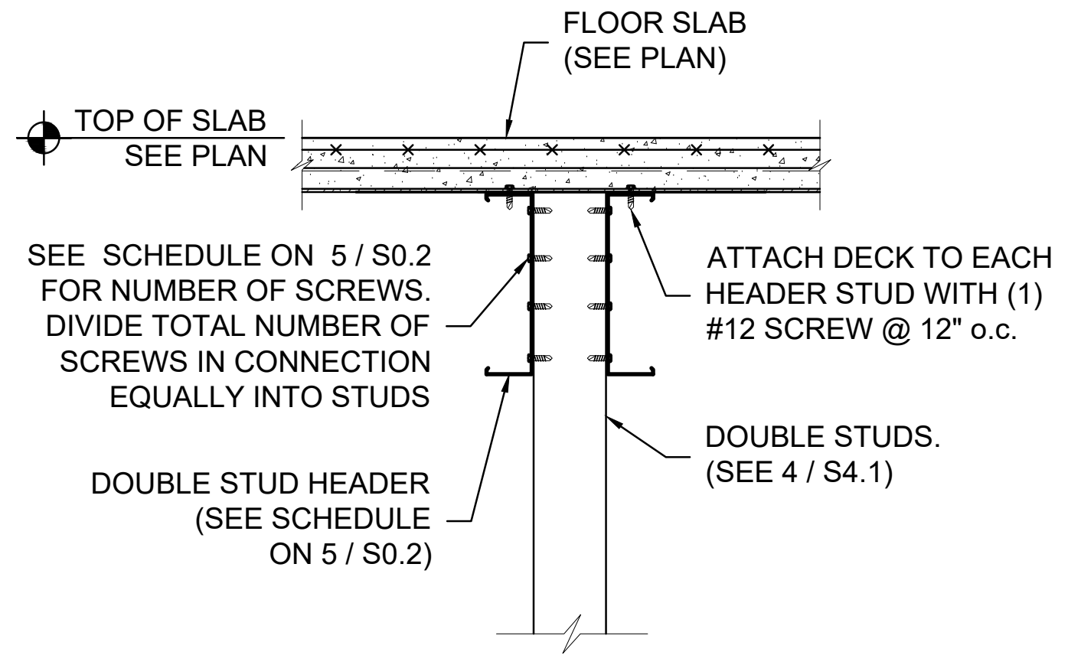
DETAIL OF SHEAR WALL PANEL WITH STRAP BRACING 3B / S4.1
SCALE: ¾"= 1'-0"


(2) #12 SCREWS AT TOP
ATTACH EACH STUD TO TOP TRACK WITH (2) #12 SCREWS
(2) #12 SCREWS @ 12" o.c.
12"
12"
(TYPICAL)
12"
A
A
STUDS BACK TO BACK (SEE PLAN)
(2) #12 SCREWS @ 12" o.c.
(2) #12 SCREWS AT BOTTOM
ATTACH EACH STUD TO BOTTOM TRACK WITH (2) #12 SCREWS
(2) #12 SCREWS @ 12" o.c.
2"
SECTION 'A-A'

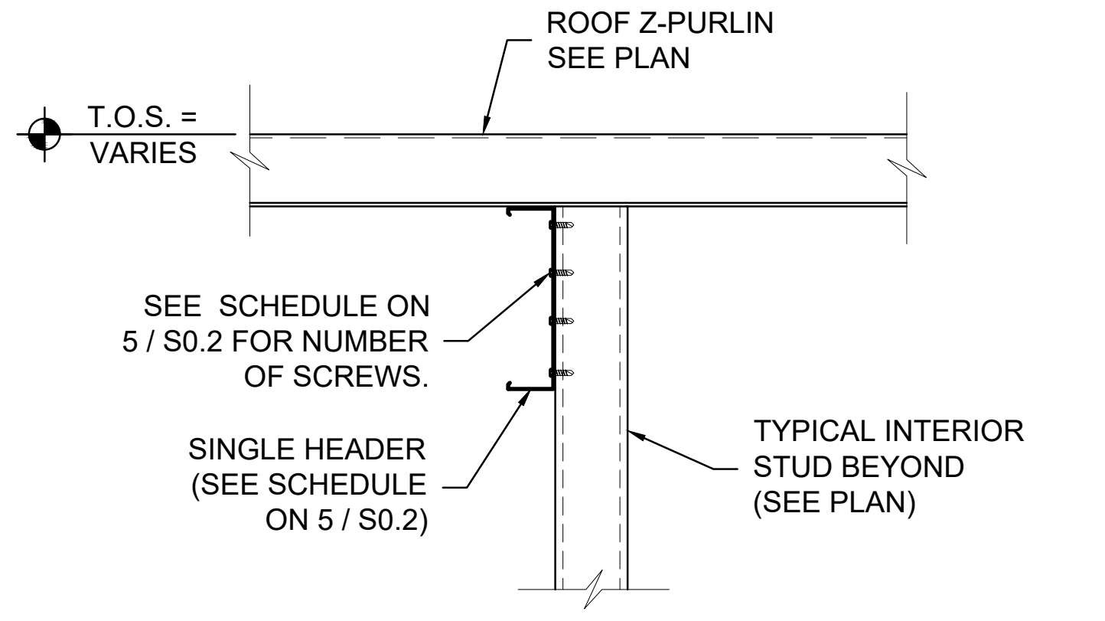
DETAIL OF BACK TO BACK STUDS 4 / S4.1
SCALE: NONE


TYPICAL PARTITION WALL. SEE PLAN
¾"
CONTINUOUS TYPICAL INTERIOR BOTTOM TRACK. SEE PLAN
TYPICAL INTERIOR STUD
TYPICAL INTERIOR STUDS (SEE PLAN)
SEE 8 / S4.1 FOR WALL BASE ATTACHMENT TO SLAB
NON-LOAD-BEARING SHEAR WALL
CONTINUOUS WALL
TYPICAL PARTITION WALL. SEE PLAN
¾"
(2) TYPICAL INTERIOR STUDS. ATTACH PER DETAIL 4 / S4.1
TYPICAL INTERIOR STUDS (SEE PLAN)
SEE 8 / S4.1 FOR WALL BASE ATTACHMENT TO SLAB
NON-LOAD-BEARING SHEAR WALL
WALL END

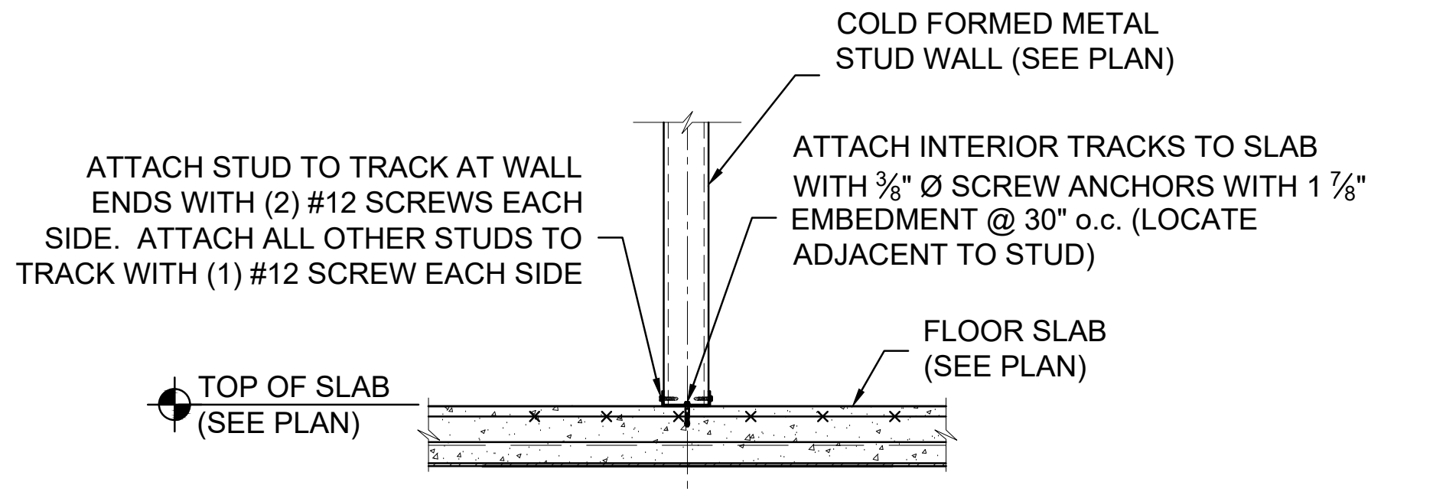
PLAN DETAIL OF NON-LOAD-BEARING SHEAR WALL INTERSECTION WITH LOAD-BEARING WALL 5A / S4.1
SCALE: 1 ½"= 1'-0"


FLOOR SLAB (SEE PLAN)
TOP OF SLAB SEE PLAN
SEE SCHEDULE ON 5 / S0.2 FOR NUMBER OF SCREWS. DIVIDE TOTAL NUMBER OF SCREWS IN CONNECTION EQUALLY INTO STUDS
ATTACH DECK TO EACH HEADER STUD WITH (1) #12 SCREW @ 12" o.c.
DOUBLE STUDS. (SEE 4 / S4.1)
DOUBLE STUD HEADER (SEE SCHEDULE ON 5 / S0.2)

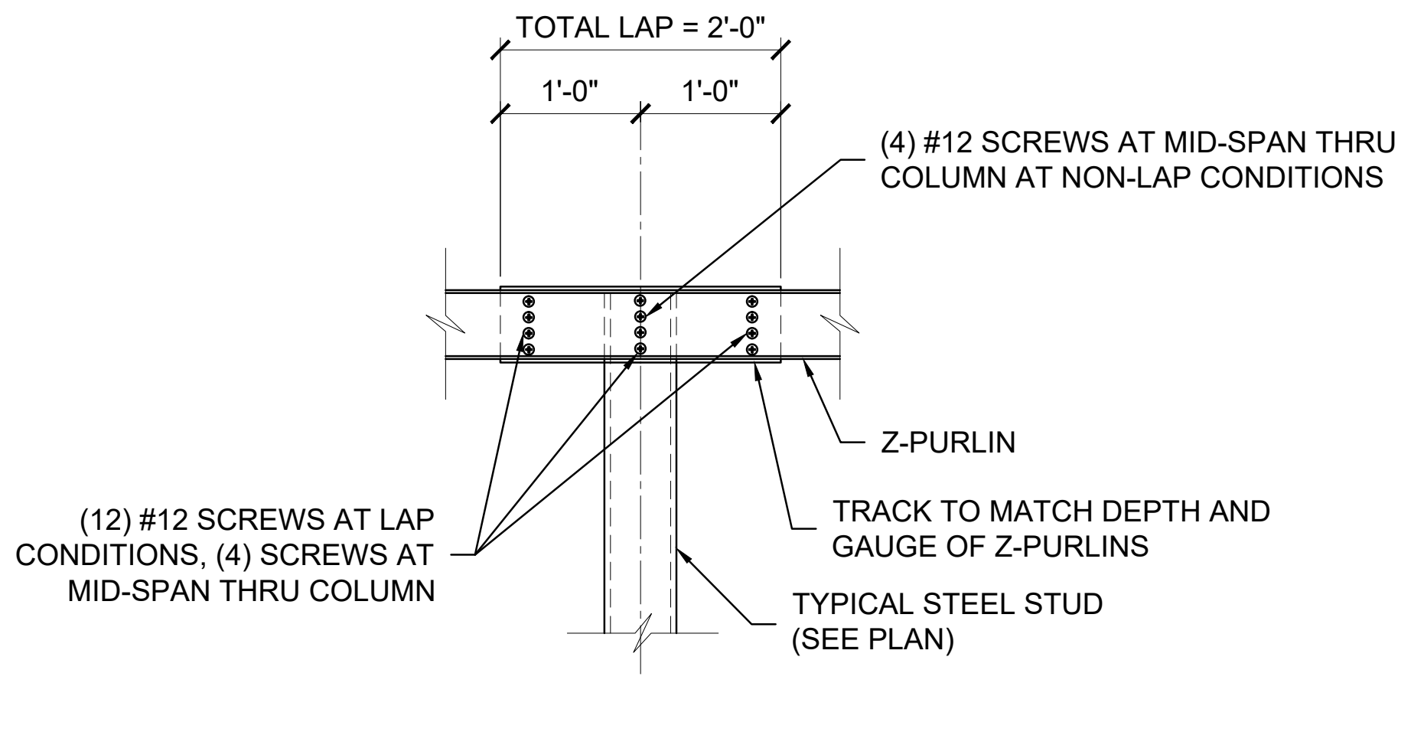
SECTION THRU DOUBLE HEADER 6 / S4.1
SCALE: ¾" = 1'-0"


ROOF Z-PURLIN SEE PLAN
T.O.S. = VARIES
SEE SCHEDULE ON 5 / S0.2 FOR NUMBER OF SCREWS.
SINGLE HEADER (SEE SCHEDULE ON 5 / S0.2)
TYPICAL INTERIOR STUD BEYOND (SEE PLAN)

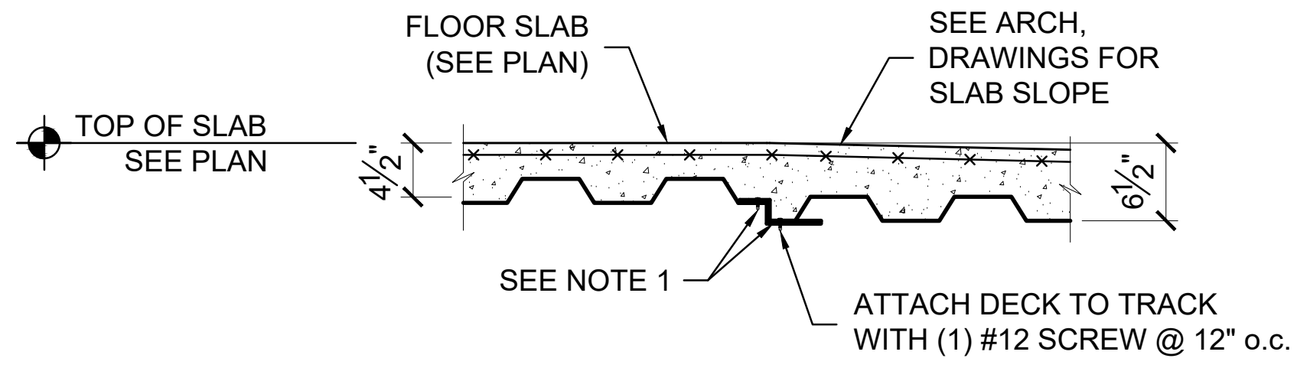
SECTION THRU ROOF HEADER 7 / S4.1
SCALE: ¾" = 1'-0"


COLD FORMED METAL STUD WALL (SEE PLAN)
ATTACH STUD TO TRACK AT WALL ENDS WITH (2) #12 SCREWS EACH SIDE. ATTACH ALL OTHER STUDS TO TRACK WITH (1) #12 SCREW EACH SIDE
ATTACH INTERIOR TRACKS TO SLAB WITH ⅜" Ø SCREW ANCHORS WITH 1 ⅞" EMBEDMENT @ 30" o.c. (LOCATE ADJACENT TO STUD)
FLOOR SLAB (SEE PLAN)
TOP OF SLAB (SEE PLAN)

DETAIL OF TYPICAL TRACK TO ELEVATED SLAB CONNECTION AT TYPICAL INTERIOR STUDS 8 / S4.1
SCALE: ¾" = 1'-0"


TOTAL LAP = 2'-0"
1'-0"
1'-0"
(4) #12 SCREWS AT MID-SPAN THRU COLUMN AT NON-LAP CONDITIONS
Z-PURLIN
TRACK TO MATCH DEPTH AND GAUGE OF Z-PURLINS
(12) #12 SCREWS AT LAP CONDITIONS, (4) SCREWS AT MID-SPAN THRU COLUMN
TYPICAL STEEL STUD (SEE PLAN)

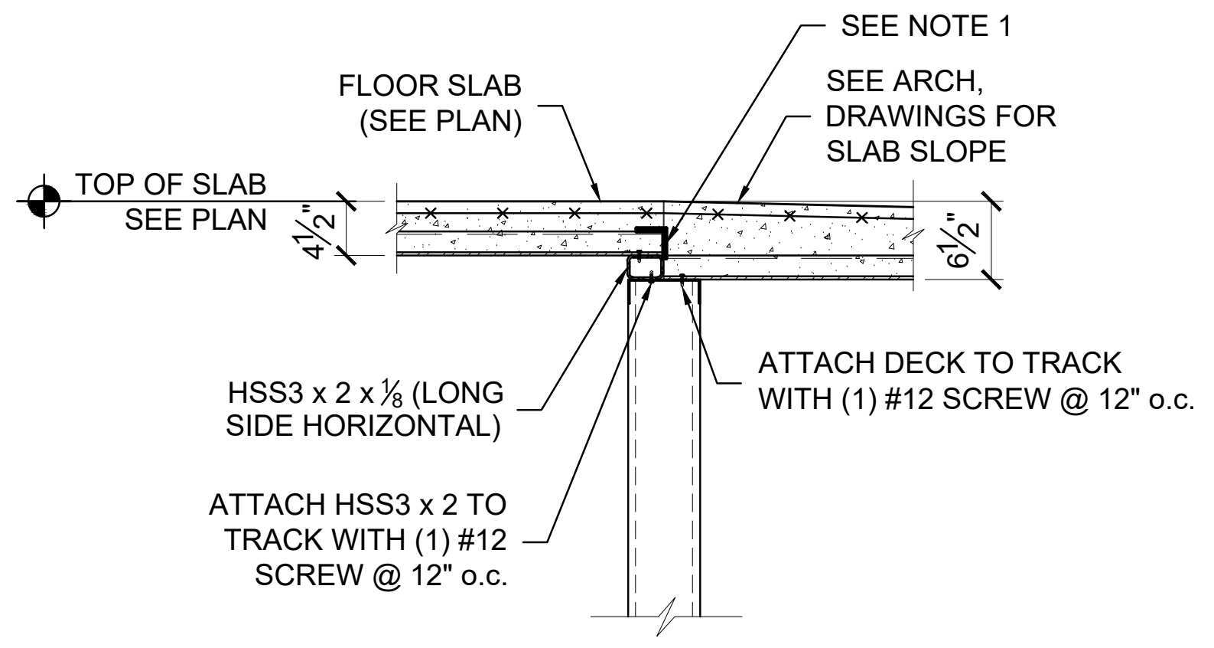
SECTION THRU Z-PURLIN CONNECTION AT LAP 9 / S4.1
SCALE: ¾" = 1'-0"


FLOOR SLAB (SEE PLAN)
SEE ARCH, DRAWINGS FOR SLAB SLOPE
TOP OF SLAB SEE PLAN
4½"
6½"
SEE NOTE 1
ATTACH DECK TO TRACK WITH (1) #12 SCREW @ 12" o.c.

NOTES:

1. INSTALL 2" WIDE x 2" DEEP x CONT. 18 GA. "Z" CLOSURE STRIP FOR CELL CLOSURE. ATTACH TO DECK WITH #10 TEK SCREWS SPACED AT A MAXIMUM OF 24" ON CENTER.

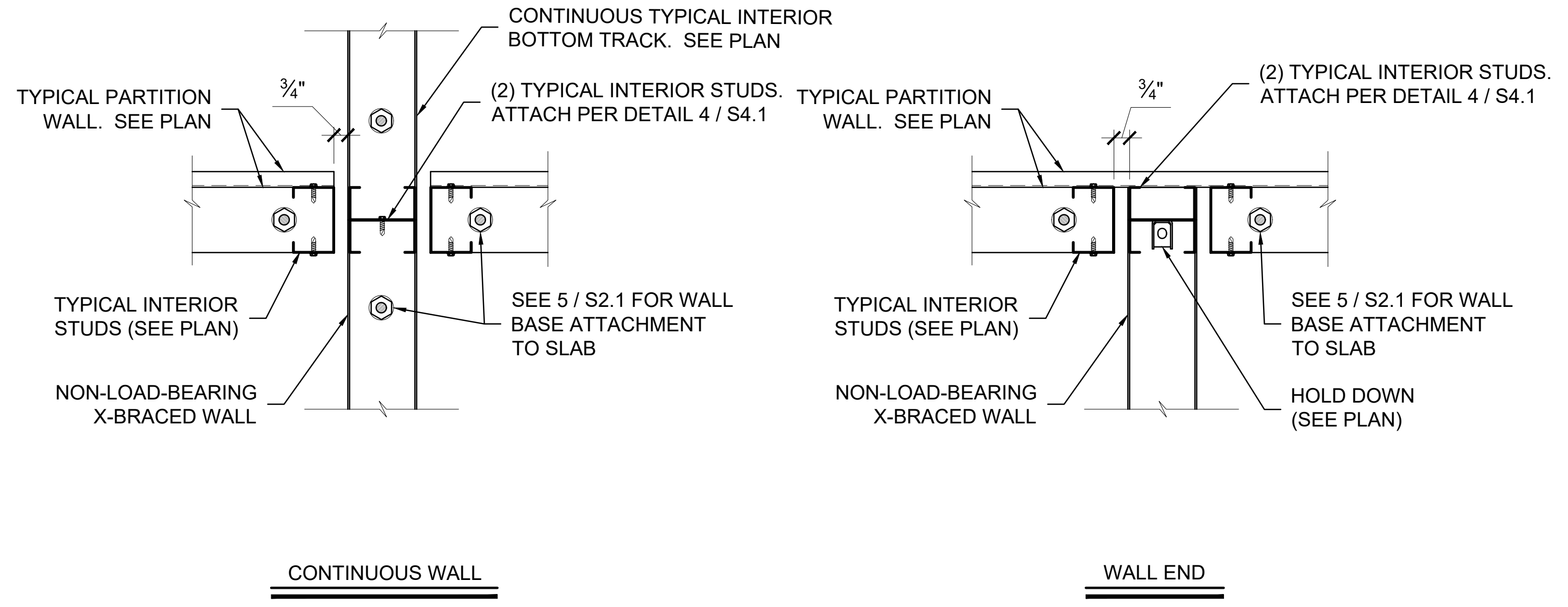
SECTION THRU CHANGE OF DECK BEARING AT LOAD BEARING WALL 11 / S4.1
SCALE: ¾" = 1'-0"


SEE NOTE 1
FLOOR SLAB (SEE PLAN)
SEE ARCH, DRAWINGS FOR SLAB SLOPE
TOP OF SLAB SEE PLAN
4½"
6½"
HSS3 x 2 x ⅛ (LONG SIDE HORIZONTAL)
ATTACH DECK TO TRACK WITH (1) #12 SCREW @ 12" o.c.
ATTACH HSS3 x 2 TO TRACK WITH (1) #12 SCREW @ 12" o.c.

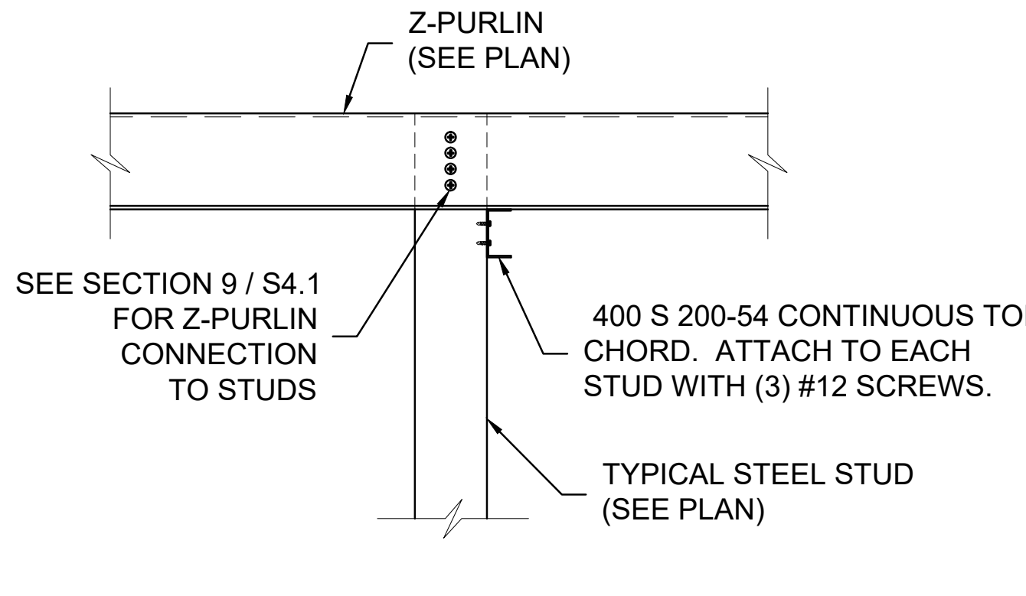
NOTES:

1. INSTALL 2" WIDE x 2" DEEP x CONT. 18 GA. BUTT STRIP FOR CELL CLOSURE. ATTACH TO DECK WITH #10 TEK SCREWS SPACED AT A MAXIMUM OF 24" ON CENTER.

SECTION THRU CHANGE OF DECK BEARING AT LOAD BEARING WALL 12 / S4.1
SCALE: ¾" = 1'-0"


TYPICAL PARTITION WALL. SEE PLAN
¾"
CONTINUOUS TYPICAL INTERIOR BOTTOM TRACK. SEE PLAN
(2) TYPICAL INTERIOR STUDS. ATTACH PER DETAIL 4 / S4.1
TYPICAL INTERIOR STUDS (SEE PLAN)
SEE 5 / S2.1 FOR WALL BASE ATTACHMENT TO SLAB
NON-LOAD-BEARING X-BRACED WALL
CONTINUOUS WALL
TYPICAL PARTITION WALL. SEE PLAN
¾"
(2) TYPICAL INTERIOR STUDS. ATTACH PER DETAIL 4 / S4.1
TYPICAL INTERIOR STUDS (SEE PLAN)
SEE 5 / S2.1 FOR WALL BASE ATTACHMENT TO SLAB
NON-LOAD-BEARING X-BRACED WALL
HOLD DOWN (SEE PLAN)
WALL END

PLAN DETAIL OF NON-LOAD-BEARING X-BRACED WALL INTERSECTION WITH LOAD-BEARING WALL 5B / S4.1
SCALE: 1 ½"= 1'-0"


Z-PURLIN (SEE PLAN)
SEE SECTION 9 / S4.1 FOR Z-PURLIN CONNECTION TO STUDS
400 S 200-54 CONTINUOUS TOP CHORD. ATTACH TO EACH STUD WITH (3) #12 SCREWS.
TYPICAL STEEL STUD (SEE PLAN)

SECTION THRU ROOF PERPENDICULAR TO Z-PURLIN 10 / S4.1
SCALE: 1 ½" = 1'-0"

JENNIFER ZABIK
097626
09/28/22

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ISSUE: FOR CONSTRUCTION
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DATE
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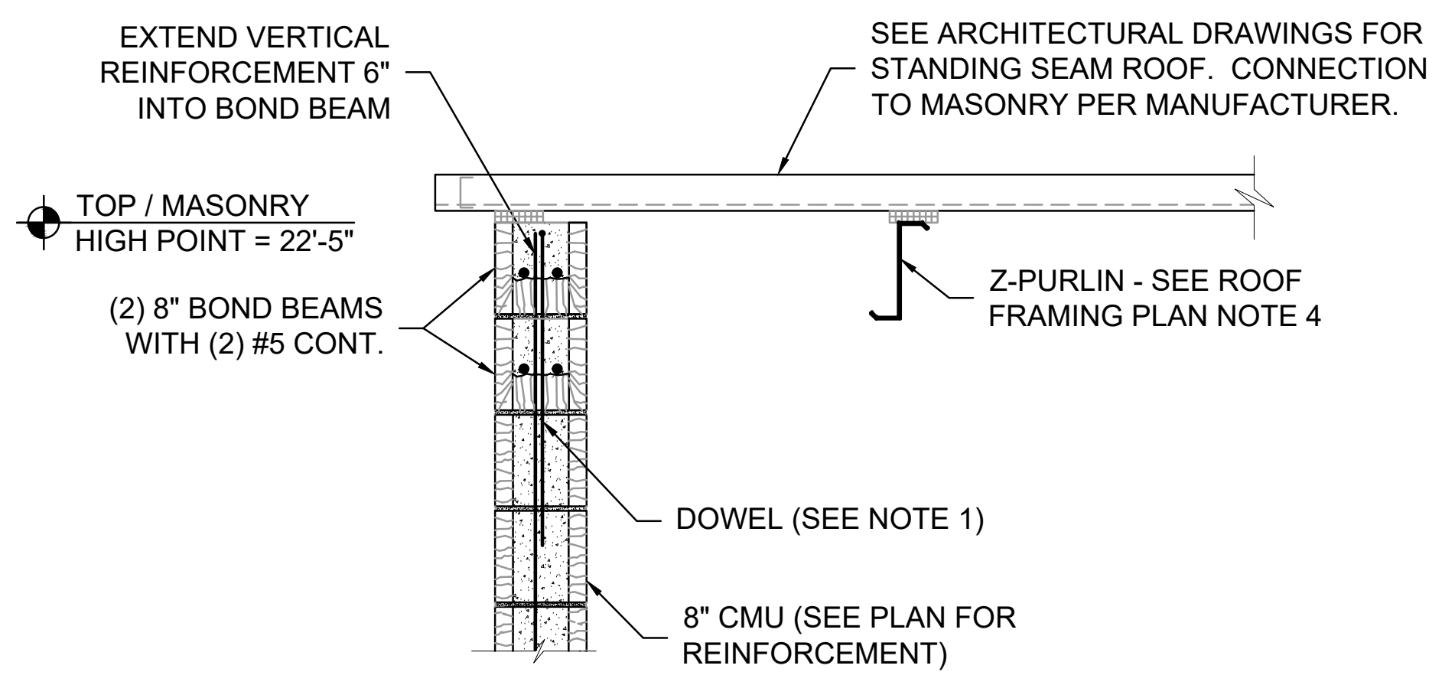
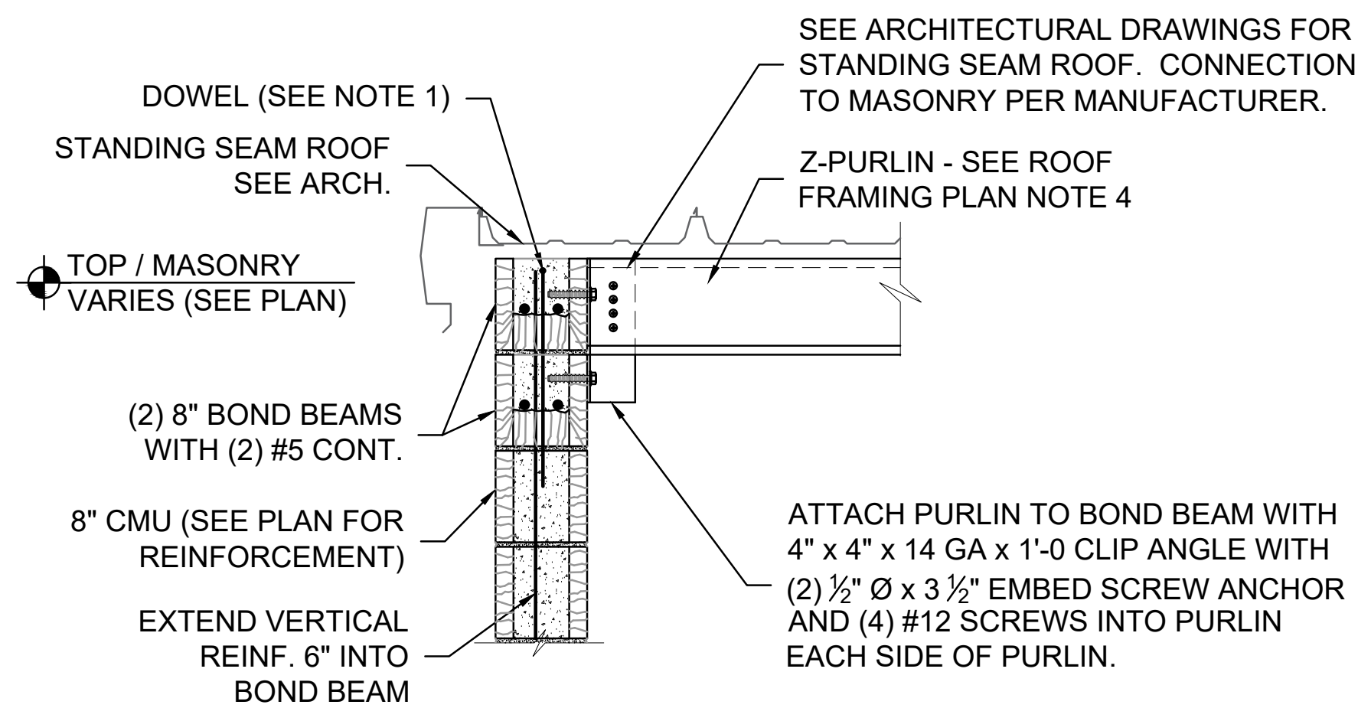

EXTEND VERTICAL REINFORCEMENT 6" INTO BOND BEAM
SEE ARCHITECTURAL DRAWINGS FOR STANDING SEAM ROOF. CONNECTION TO MASONRY PER MANUFACTURER.
TOP / MASONRY
HIGH POINT = 22'-5"
Z-PURLIN - SEE ROOF FRAMING PLAN NOTE 4
(2) 8" BOND BEAMS WITH (2) #5 CONT.
DOWEL (SEE NOTE 1)
8" CMU (SEE PLAN FOR REINFORCEMENT)

NOTES:

1. PROVIDE DOWEL (SAME SIZE AND SPACING AS WALL VERTICAL REINFORCEMENT) WITH STANDARD 90° HOOK AND MASONRY LAP SPLICE.(SEE 4 / S0.2).

SECTION THRU EXTERIOR 8" CMU WALL 1 S4.2

SCALE: ¾" = 1'-0"

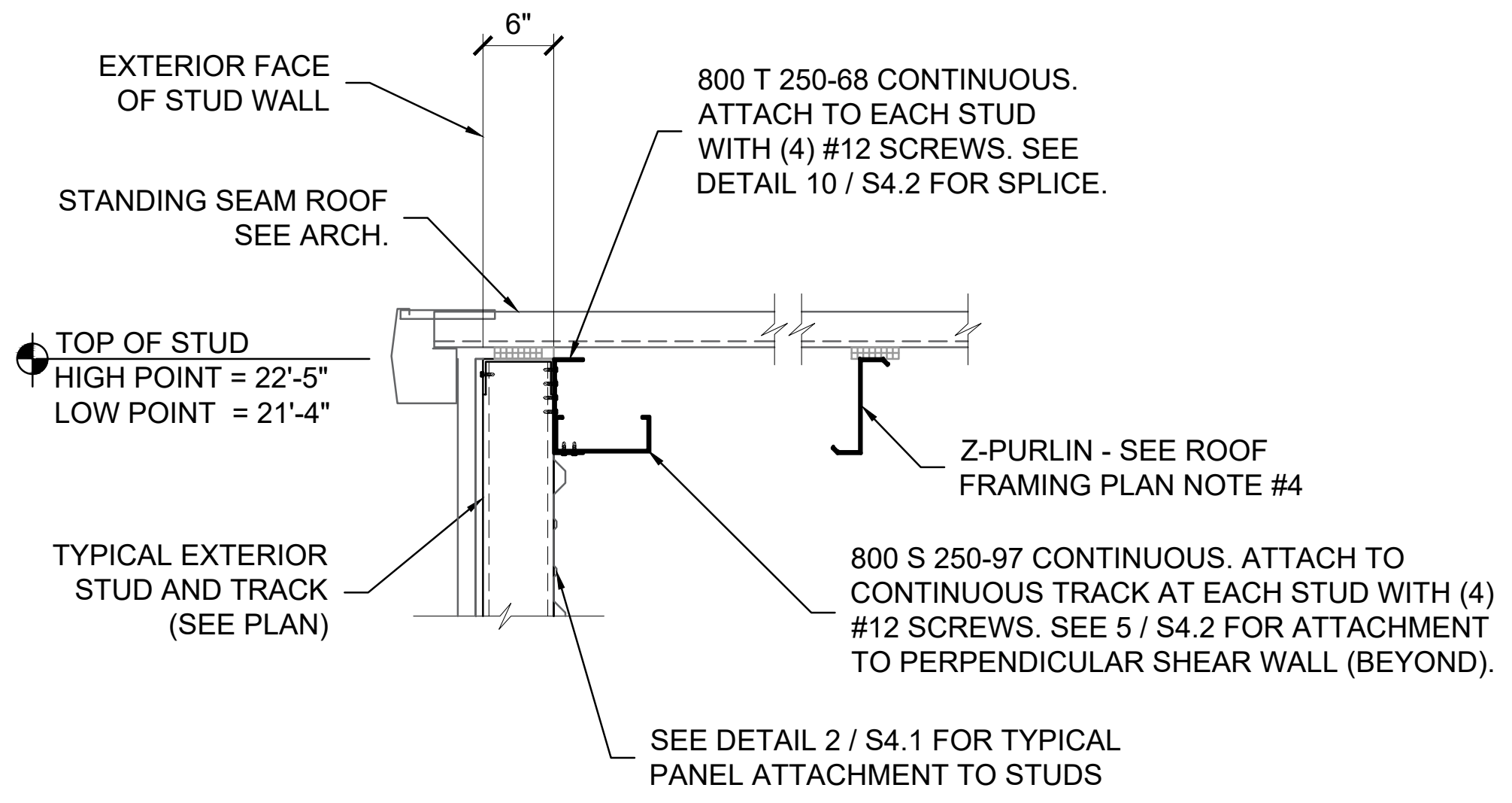

DOWEL (SEE NOTE 1)
STANDING SEAM ROOF SEE ARCH.
SEE ARCHITECTURAL DRAWINGS FOR STANDING SEAM ROOF. CONNECTION TO MASONRY PER MANUFACTURER.
Z-PURLIN - SEE ROOF FRAMING PLAN NOTE 4
TOP / MASONRY
VARIES (SEE PLAN)
(2) 8" BOND BEAMS WITH (2) #5 CONT.
8" CMU (SEE PLAN FOR REINFORCEMENT)
EXTEND VERTICAL REINF. 6" INTO BOND BEAM
ATTACH PURLIN TO BOND BEAM WITH 4" x 4" x 14 GA x 1'-0 CLIP ANGLE WITH (2) ½" Ø x 3 ½" EMBED SCREW ANCHOR AND (4) #12 SCREWS INTO PURLIN EACH SIDE OF PURLIN.

NOTES:

1. PROVIDE DOWEL (SAME SIZE AND SPACING AS WALL VERTICAL REINFORCEMENT) WITH STANDARD 90° HOOK AND MASONRY LAP SPLICE.(SEE 4 / S0.2).

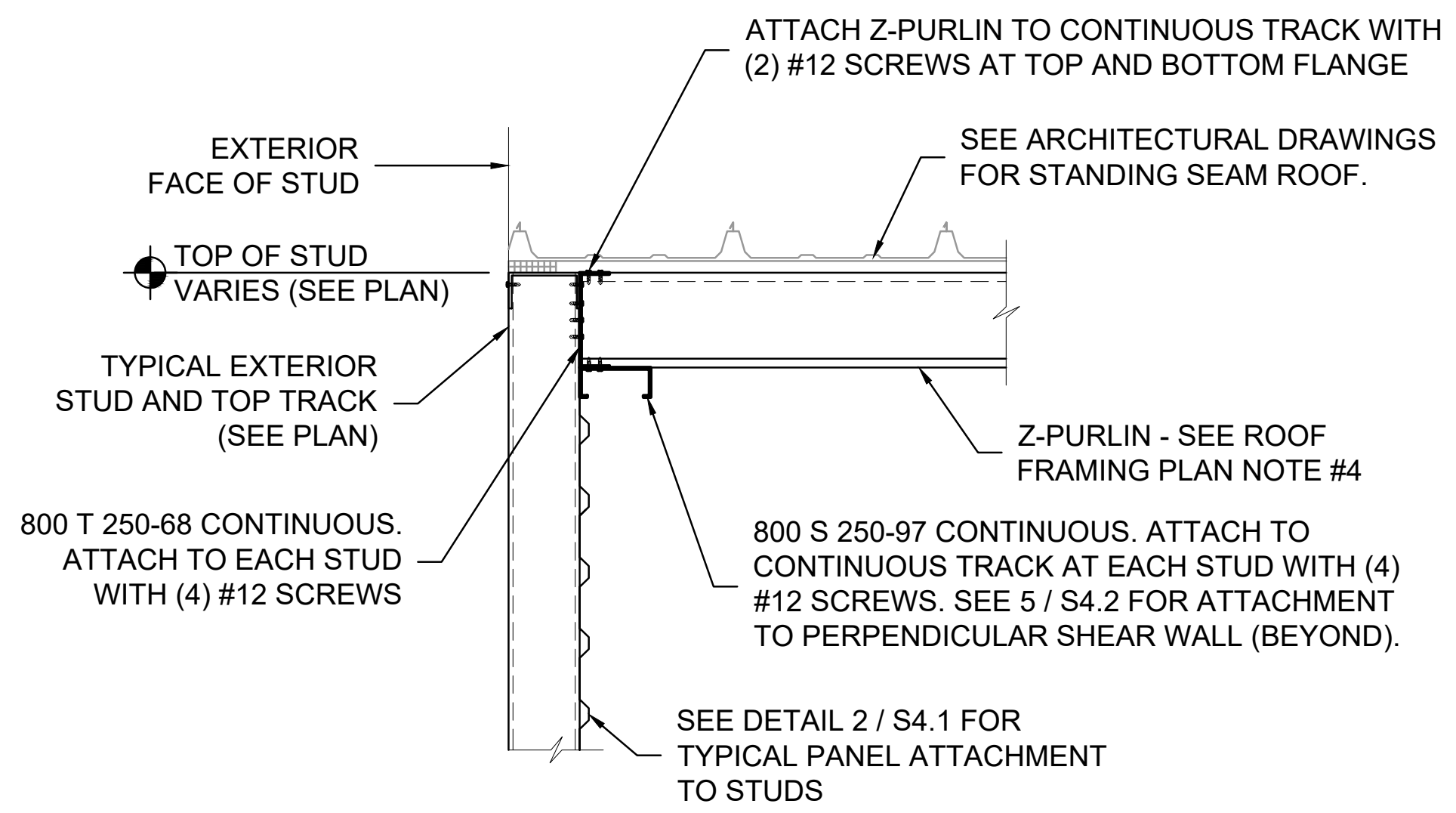
SECTION THRU EXTERIOR 8" CMU WALL AT ELEVATOR OVERRIDE 2 S4.2

SCALE: ¾" = 1'-0"


6"
EXTERIOR FACE OF STUD WALL
800 T 250-68 CONTINUOUS. ATTACH TO EACH STUD WITH (4) #12 SCREWS. SEE DETAIL 10 / S4.2 FOR SPLICE.
STANDING SEAM ROOF SEE ARCH.
TOP OF STUD
HIGH POINT = 22'-5"
LOW POINT = 21'-4"
Z-PURLIN - SEE ROOF FRAMING PLAN NOTE #4
TYPICAL EXTERIOR STUD AND TRACK (SEE PLAN)
800 S 250-97 CONTINUOUS. ATTACH TO CONTINUOUS TRACK AT EACH STUD WITH (4) #12 SCREWS. SEE 5 / S4.2 FOR ATTACHMENT TO PERPENDICULAR SHEAR WALL (BEYOND).
SEE DETAIL 2 / S4.1 FOR TYPICAL PANEL ATTACHMENT TO STUDS

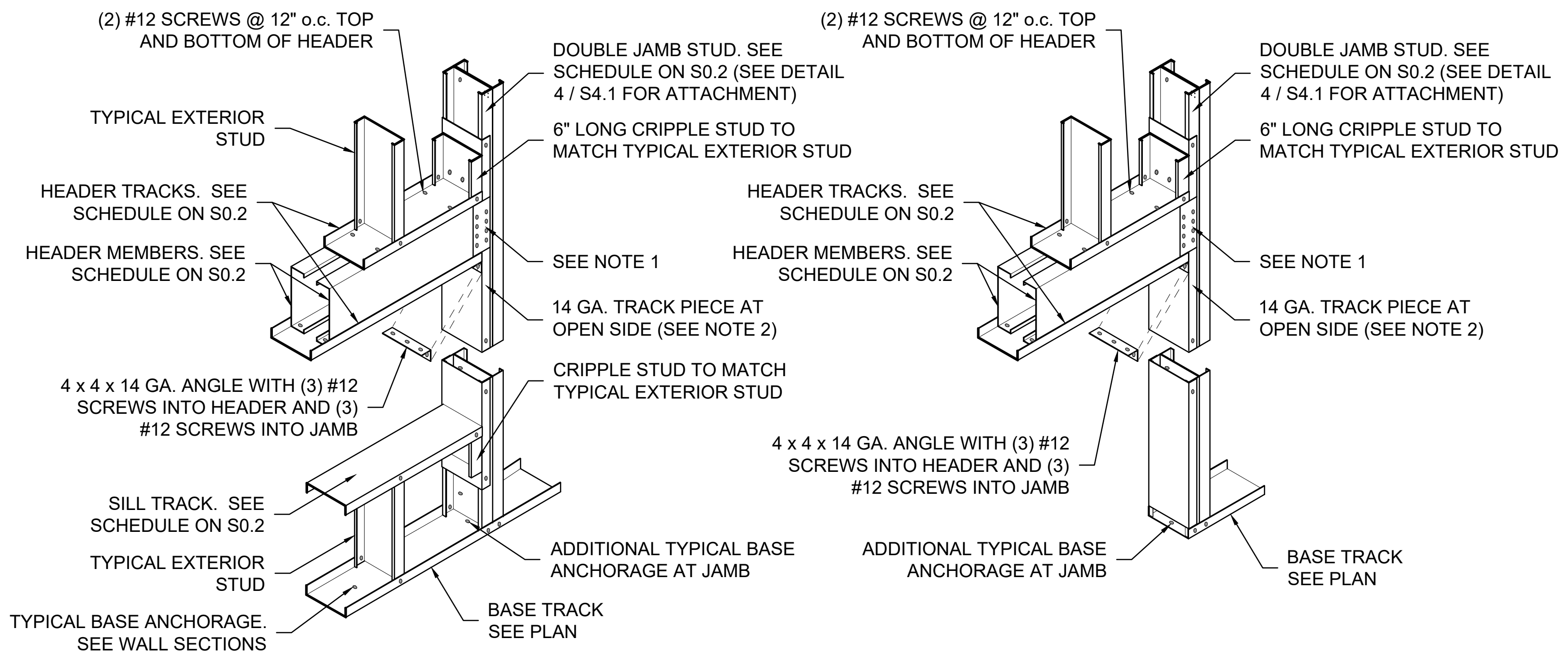
SECTION THRU EXTERIOR STUD WALL 3 S4.2

SCALE: ¾" = 1'-0"


ATTACH Z-PURLIN TO CONTINUOUS TRACK WITH (2) #12 SCREWS AT TOP AND BOTTOM FLANGE
EXTERIOR FACE OF STUD
SEE ARCHITECTURAL DRAWINGS FOR STANDING SEAM ROOF.
TOP OF STUD
VARIES (SEE PLAN)
TYPICAL EXTERIOR STUD AND TOP TRACK (SEE PLAN)
Z-PURLIN - SEE ROOF FRAMING PLAN NOTE #4
800 T 250-68 CONTINUOUS. ATTACH TO EACH STUD WITH (4) #12 SCREWS
800 S 250-97 CONTINUOUS. ATTACH TO CONTINUOUS TRACK AT EACH STUD WITH (4) #12 SCREWS. SEE 5 / S4.2 FOR ATTACHMENT TO PERPENDICULAR SHEAR WALL (BEYOND).
SEE DETAIL 2 / S4.1 FOR TYPICAL PANEL ATTACHMENT TO STUDS

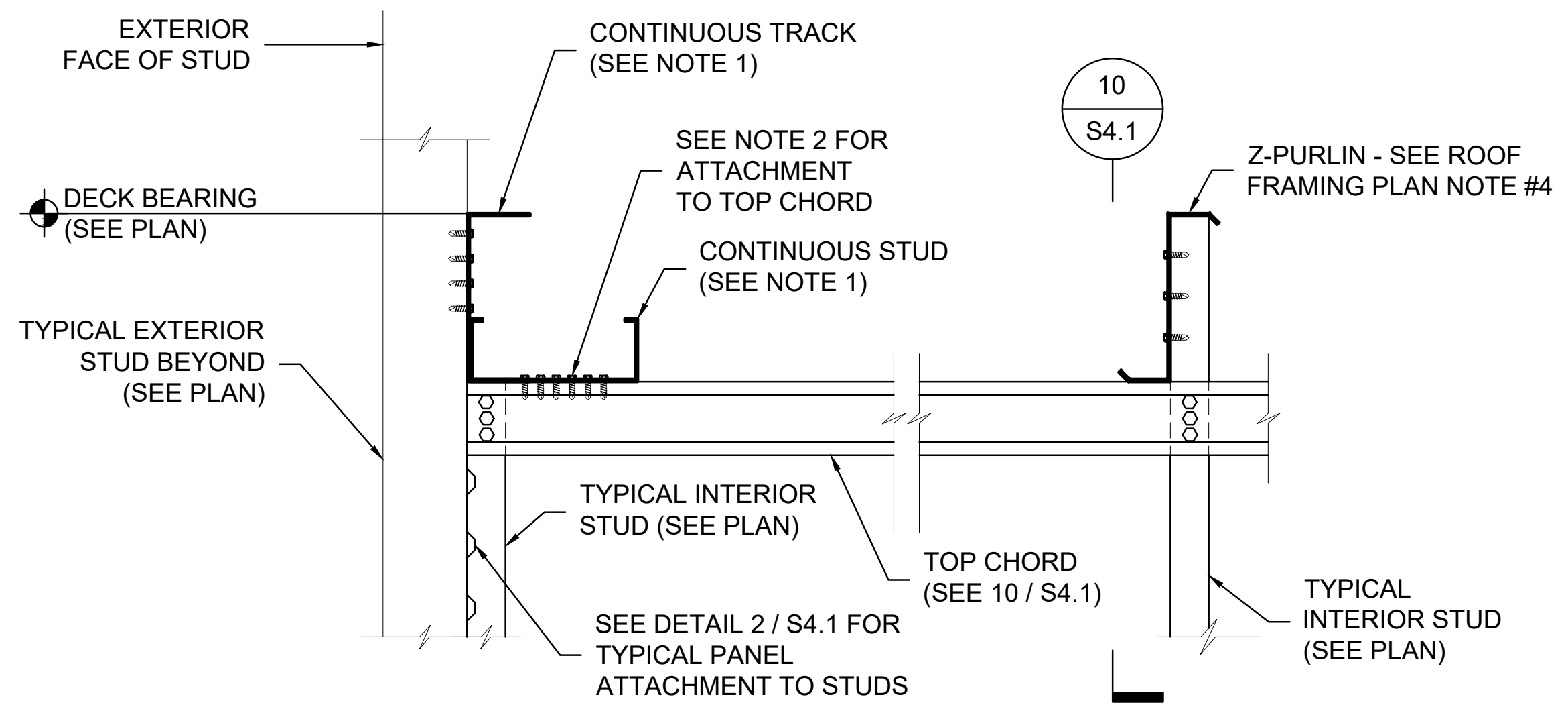
SECTION THRU EXTERIOR STUD WALL 4 S4.2

SCALE: ¾" = 1'-0"


(2) #12 SCREWS @ 12" o.c. TOP AND BOTTOM OF HEADER
DOUBLE JAMB STUD. SEE SCHEDULE ON S0.2 (SEE DETAIL 4 / S4.1 FOR ATTACHMENT)
TYPICAL EXTERIOR STUD
6" LONG CRIPPLE STUD TO MATCH TYPICAL EXTERIOR STUD
HEADER TRACKS. SEE SCHEDULE ON S0.2
HEADER MEMBERS. SEE SCHEDULE ON S0.2
SEE NOTE 1
14 GA. TRACK PIECE AT OPEN SIDE (SEE NOTE 2)
4 x 4 x 14 GA. ANGLE WITH (3) #12 SCREWS INTO HEADER AND (3) #12 SCREWS INTO JAMB
CRIPPLE STUD TO MATCH TYPICAL EXTERIOR STUD
SILL TRACK. SEE SCHEDULE ON S0.2
TYPICAL EXTERIOR STUD
ADDITIONAL TYPICAL BASE ANCHORAGE AT JAMB
TYPICAL BASE ANCHORAGE. SEE WALL SECTIONS
BASE TRACK SEE PLAN
(2) #12 SCREWS @ 12" o.c. TOP AND BOTTOM OF HEADER
DOUBLE JAMB STUD. SEE SCHEDULE ON S0.2 (SEE DETAIL 4 / S4.1 FOR ATTACHMENT)
6" LONG CRIPPLE STUD TO MATCH TYPICAL EXTERIOR STUD
HEADER TRACKS. SEE SCHEDULE ON S0.2
HEADER MEMBERS. SEE SCHEDULE ON S0.2
SEE NOTE 1
14 GA. TRACK PIECE AT OPEN SIDE (SEE NOTE 2)
4 x 4 x 14 GA. ANGLE WITH (3) #12 SCREWS INTO HEADER AND (3) #12 SCREWS INTO JAMB
ADDITIONAL TYPICAL BASE ANCHORAGE AT JAMB
BASE TRACK SEE PLAN

AT TYPICAL WINDOW

AT TYPICAL DOORWAY

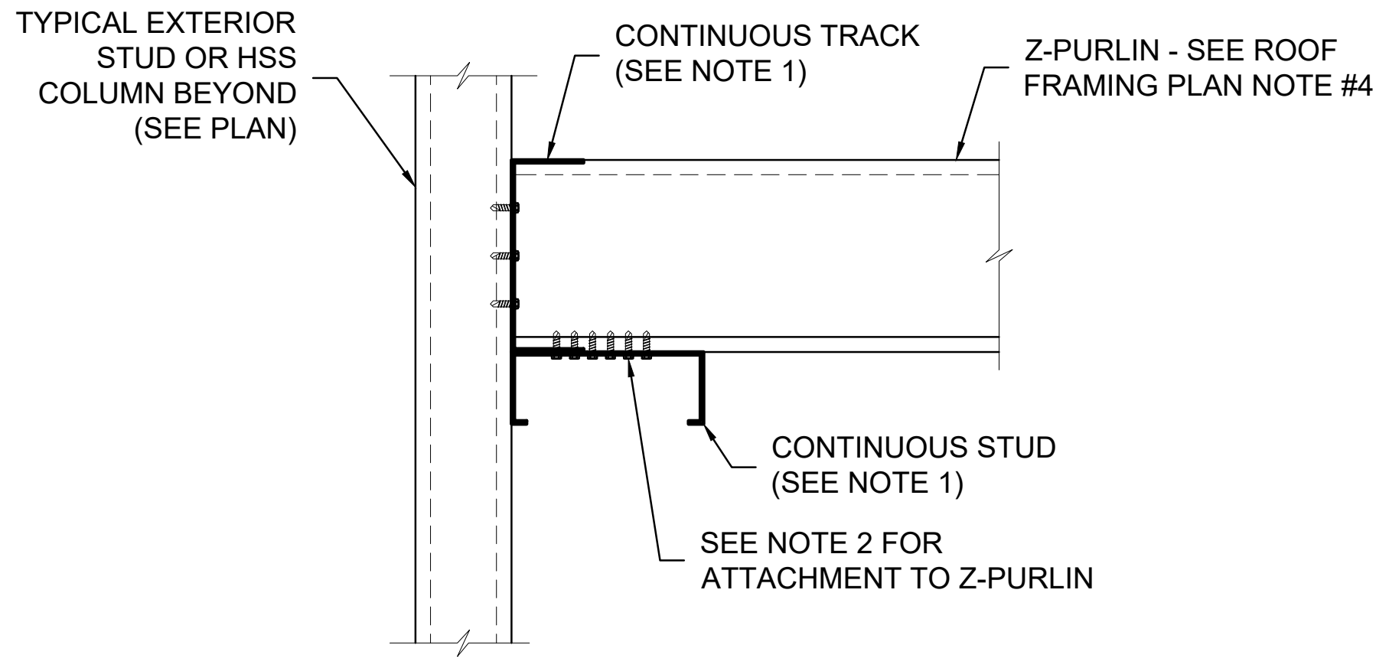

EXTERIOR FACE OF STUD
CONTINUOUS TRACK (SEE NOTE 1)
10
S4.1
DECK BEARING (SEE PLAN)
SEE NOTE 2 FOR ATTACHMENT TO TOP CHORD
Z-PURLIN - SEE ROOF FRAMING PLAN NOTE #4
CONTINUOUS STUD (SEE NOTE 1)
TYPICAL EXTERIOR STUD BEYOND (SEE PLAN)
TYPICAL INTERIOR STUD (SEE PLAN)
TOP CHORD (SEE 10 / S4.1)
TYPICAL INTERIOR STUD (SEE PLAN)
SEE DETAIL 2 / S4.1 FOR TYPICAL PANEL ATTACHMENT TO STUDS

NOTES:

1. SEE EXTERIOR WALL SECTIONS FOR SIZE AND ATTACHMENT TO EXTERIOR STUD AND CONTINUOUS TRACK. CONTINUE TO ADJACENT SHEAR WALL.
2. ATTACH CONTINUOUS STUD TO TOP CHORD WITH (6) #12 SCREWS.

DETAIL OF CONNECTION TO PERPENDICULAR WALL 5 S4.2

SCALE: NONE


TYPICAL EXTERIOR STUD OR HSS COLUMN BEYOND (SEE PLAN)
CONTINUOUS TRACK (SEE NOTE 1)
Z-PURLIN - SEE ROOF FRAMING PLAN NOTE #4
CONTINUOUS STUD (SEE NOTE 1)
SEE NOTE 2 FOR ATTACHMENT TO Z-PURLIN

NOTES:

1. SEE EXTERIOR WALL SECTIONS FOR SIZE AND ATTACHMENT TO EXTERIOR STUD AND CONTINUOUS TRACK.
2. ATTACH CONTINUOUS STUD TO Z-PURLIN WITH (6) #12 SCREWS.

DETAIL OF CONNECTION TO Z-PURLIN AT HORIZONTAL STRAP 6 S4.2

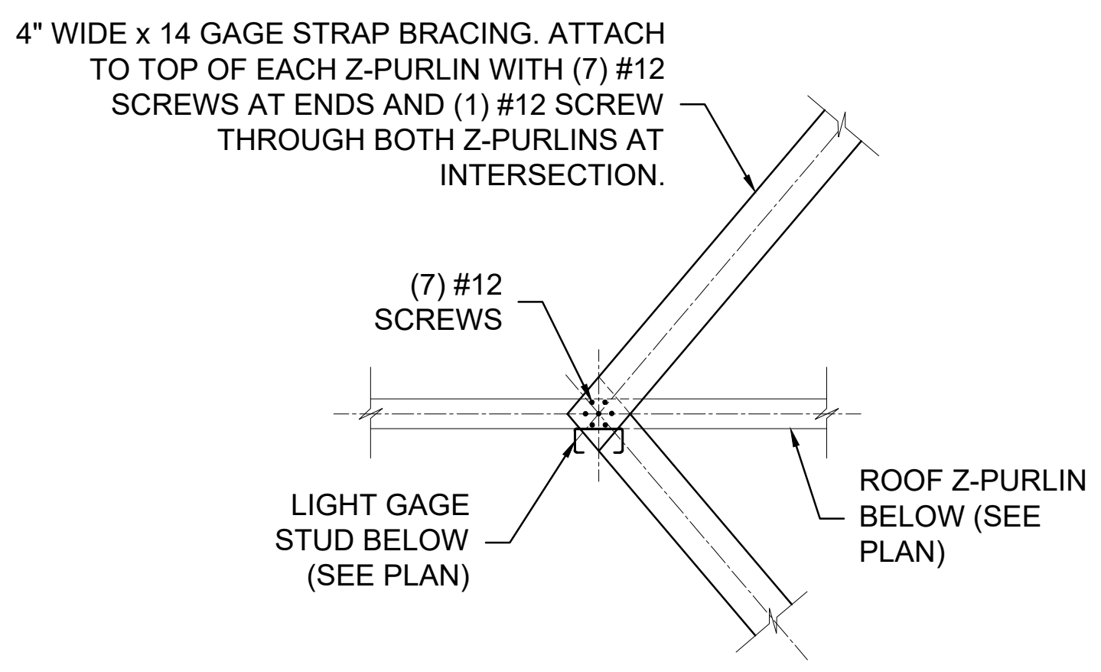
SCALE: NONE

NOTES:

1. 6" WIDE, 14 GAGE GUSSET PLATE TO MATCH DEPTH OF HEADER MEMBERS. ATTACH USING NUMBER OF #12 SCREWS SHOWN ON SCHEDULE ON S0.2 (SPLIT NUMBER OF SCREWS EVENLY BETWEEN HEADER MEMBERS AND JAMB)
2. TRACK PIECE TO BE CONTINUOUS FOR HEIGHT OF OPENING AND EXTEND 8" ABOVE TOP OF HEADER MEMBERS. WHERE SILL TRACK IS REQUIRED, TRACK PIECE TO EXTEND 8" BELOW SILL TRACK.
3. ● INDICATES #12 SCREW, UNLESS NOTED OTHERWISE.

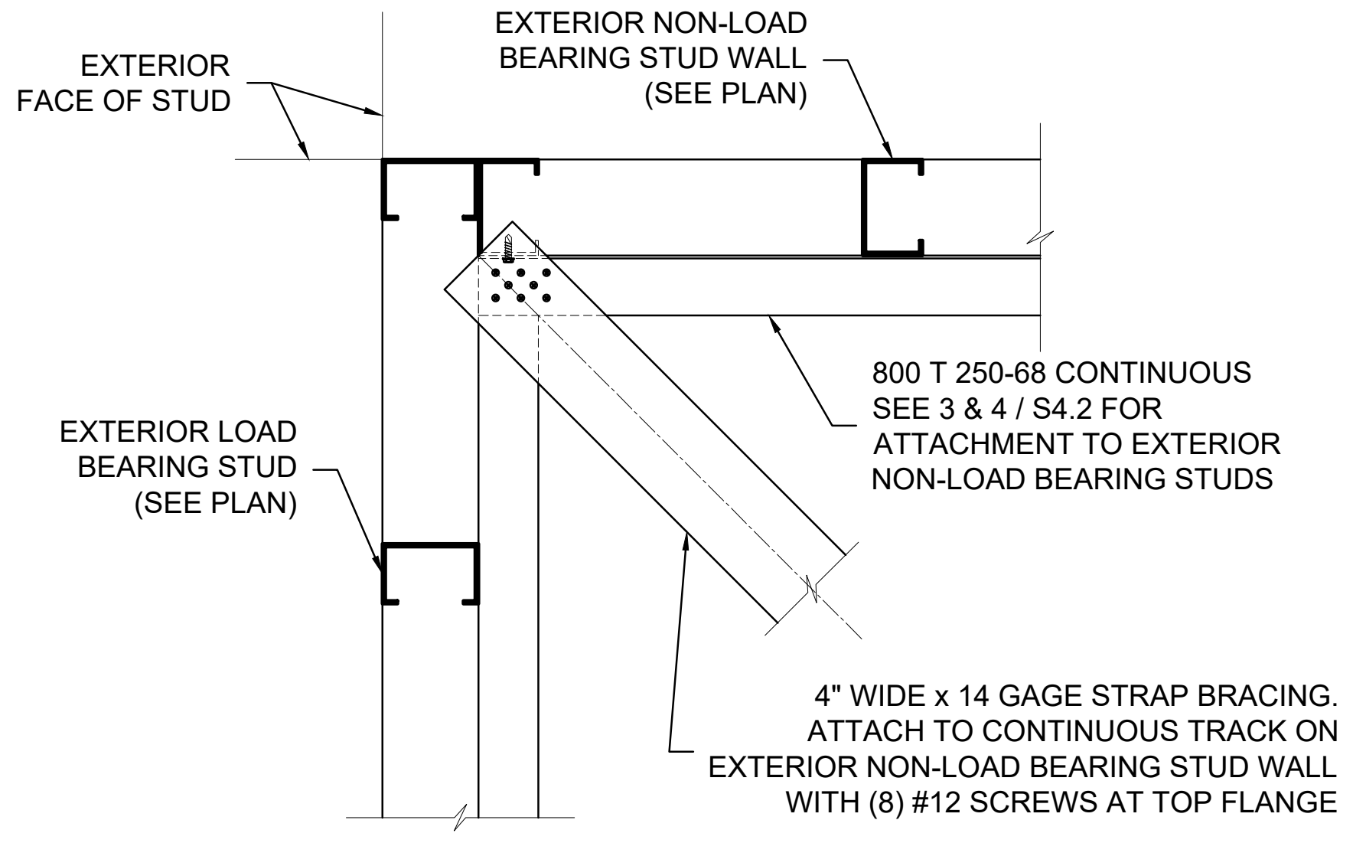
DETAIL OF EXTERIOR HEADER CONNECTION 7 S4.2

SCALE: NONE


4" WIDE x 14 GAGE STRAP BRACING. ATTACH TO TOP OF EACH Z-PURLIN WITH (7) #12 SCREWS AT ENDS AND (1) #12 SCREW THROUGH BOTH Z-PURLINS AT INTERSECTION.
(7) #12 SCREWS
LIGHT GAGE STUD BELOW (SEE PLAN)
ROOF Z-PURLIN BELOW (SEE PLAN)

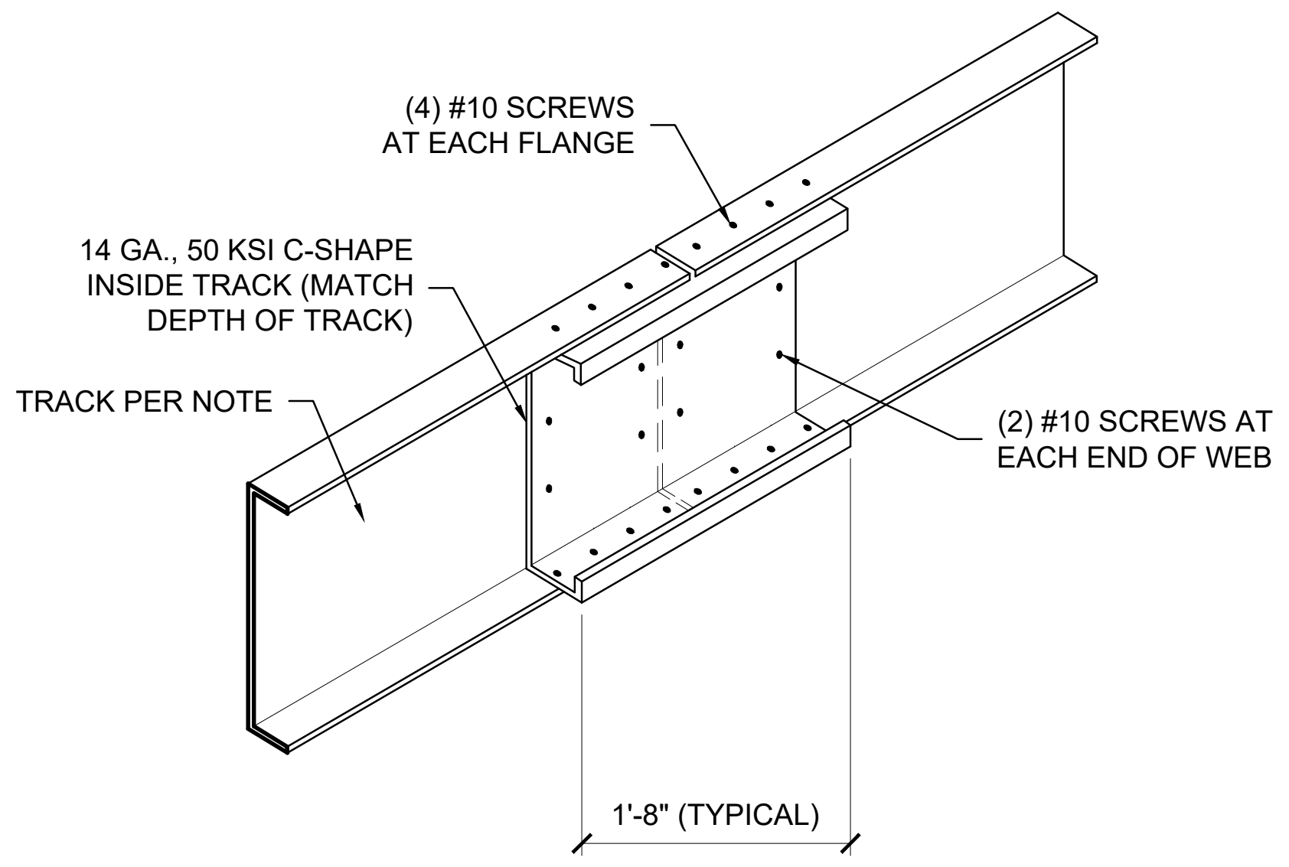
PLAN SECTION THRU STRAP BRACING 8 S4.2

SCALE: ¾" = 1'-0"


EXTERIOR FACE OF STUD
EXTERIOR NON-LOAD BEARING STUD WALL (SEE PLAN)
800 T 250-68 CONTINUOUS SEE 3 & 4 / S4.2 FOR ATTACHMENT TO EXTERIOR NON-LOAD BEARING STUDS
EXTERIOR LOAD BEARING STUD (SEE PLAN)
4" WIDE x 14 GAGE STRAP BRACING. ATTACH TO CONTINUOUS TRACK ON EXTERIOR NON-LOAD BEARING STUD WALL WITH (8) #12 SCREWS AT TOP FLANGE

PLAN DETAIL OF STRAP BRACING CORNER CONNECTION TO EXTERIOR CORNER WALL 9 S4.2

SCALE: 1 ½"= 1'-0"


(4) #10 SCREWS AT EACH FLANGE
14 GA., 50 KSI C-SHAPE INSIDE TRACK (MATCH DEPTH OF TRACK)
TRACK PER NOTE
(2) #10 SCREWS AT EACH END OF WEB
1'-8" (TYPICAL)

DETAIL OF TYPICAL TRACK SPLICE 10 S4.2

SCALE: NONE

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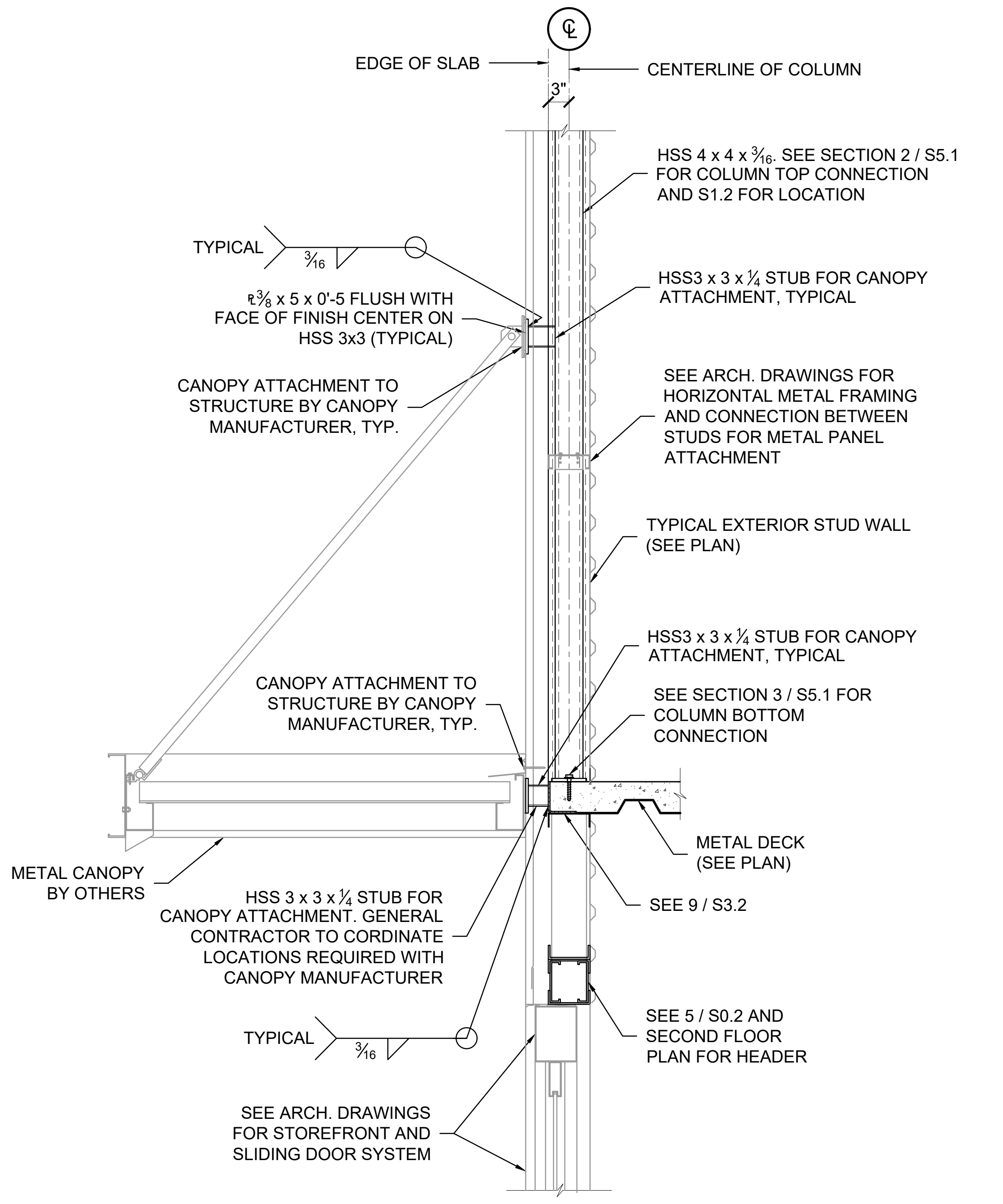
STATE OF NEW YORK
JENNIFER ZABIK
097626
LICENSED PROFESSIONAL ENGINEER
09/28/22

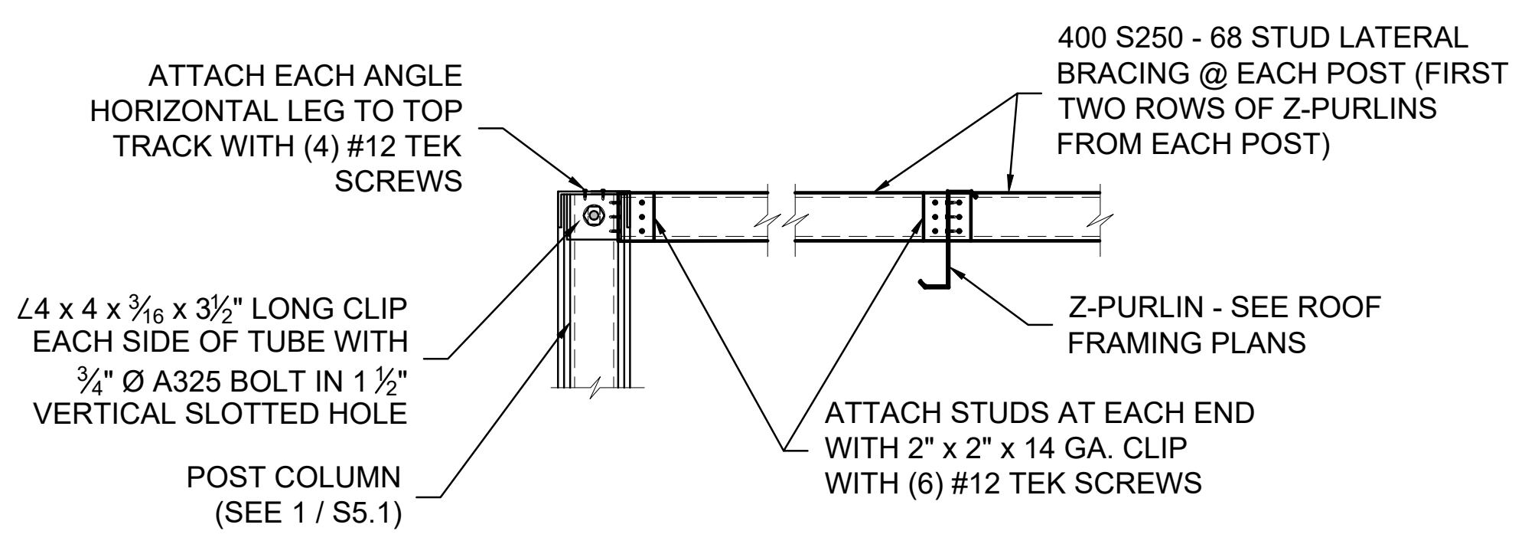
SHEET NUMBER
S4.2


EDGE OF SLAB
CENTERLINE OF COLUMN
3"
HSS 4 x 4 x 3/16. SEE SECTION 2 / S5.1 FOR COLUMN TOP CONNECTION AND S1.2 FOR LOCATION
TYPICAL
3/16
℞⅜ x 5 x 0'-5 FLUSH WITH FACE OF FINISH CENTER ON HSS 3x3 (TYPICAL)
HSS3 x 3 x ¼ STUB FOR CANOPY ATTACHMENT, TYPICAL
CANOPY ATTACHMENT TO STRUCTURE BY CANOPY MANUFACTURER, TYP.
SEE ARCH. DRAWINGS FOR HORIZONTAL METAL FRAMING AND CONNECTION BETWEEN STUDS FOR METAL PANEL ATTACHMENT
TYPICAL EXTERIOR STUD WALL (SEE PLAN)
HSS3 x 3 x ¼ STUB FOR CANOPY ATTACHMENT, TYPICAL
CANOPY ATTACHMENT TO STRUCTURE BY CANOPY MANUFACTURER, TYP.
SEE SECTION 3 / S5.1 FOR COLUMN BOTTOM CONNECTION
METAL DECK (SEE PLAN)
METAL CANOPY BY OTHERS
HSS 3 x 3 x ¼ STUB FOR CANOPY ATTACHMENT. GENERAL CONTRACTOR TO CORDINATE LOCATIONS REQUIRED WITH CANOPY MANUFACTURER
SEE 9 / S3.2
SEE 5 / S0.2 AND SECOND FLOOR PLAN FOR HEADER
TYPICAL
3/16
SEE ARCH. DRAWINGS FOR STOREFRONT AND SLIDING DOOR SYSTEM

SECTION THRU CANOPY CONNECTION TO STEEL COLUMN AT STOREFRONT

SCALE: ¾" = 1'-0"

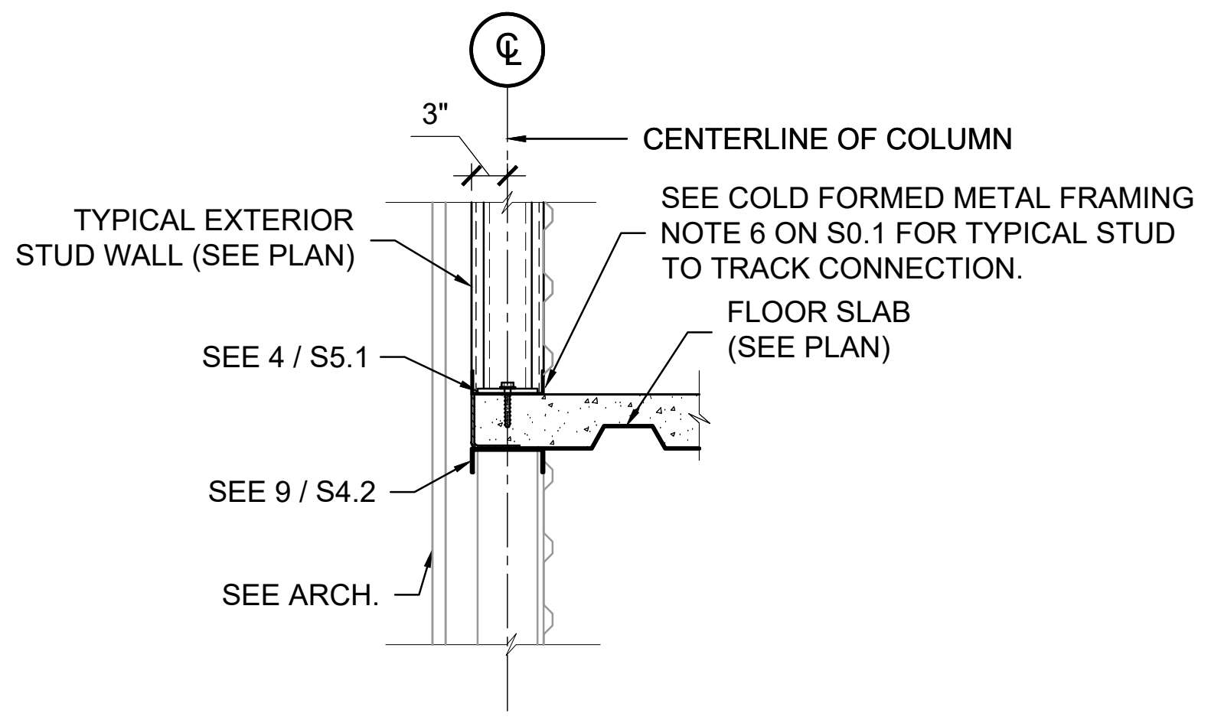
1 / S5.1


ATTACH EACH ANGLE HORIZONTAL LEG TO TOP TRACK WITH (4) #12 TEK SCREWS
∠4 x 4 x 3/16 x 3½" LONG CLIP EACH SIDE OF TUBE WITH ¾" Ø A325 BOLT IN 1 ½" VERTICAL SLOTTED HOLE
POST COLUMN (SEE 1 / S5.1)
400 S250 - 68 STUD LATERAL BRACING @ EACH POST (FIRST TWO ROWS OF Z-PURLINS FROM EACH POST)
Z-PURLIN - SEE ROOF FRAMING PLANS
ATTACH STUDS AT EACH END WITH 2" x 2" x 14 GA. CLIP WITH (6) #12 TEK SCREWS

SECTION AT CANOPY COLUMN TOP CONNECTION

SCALE: ¾" = 1'-0"

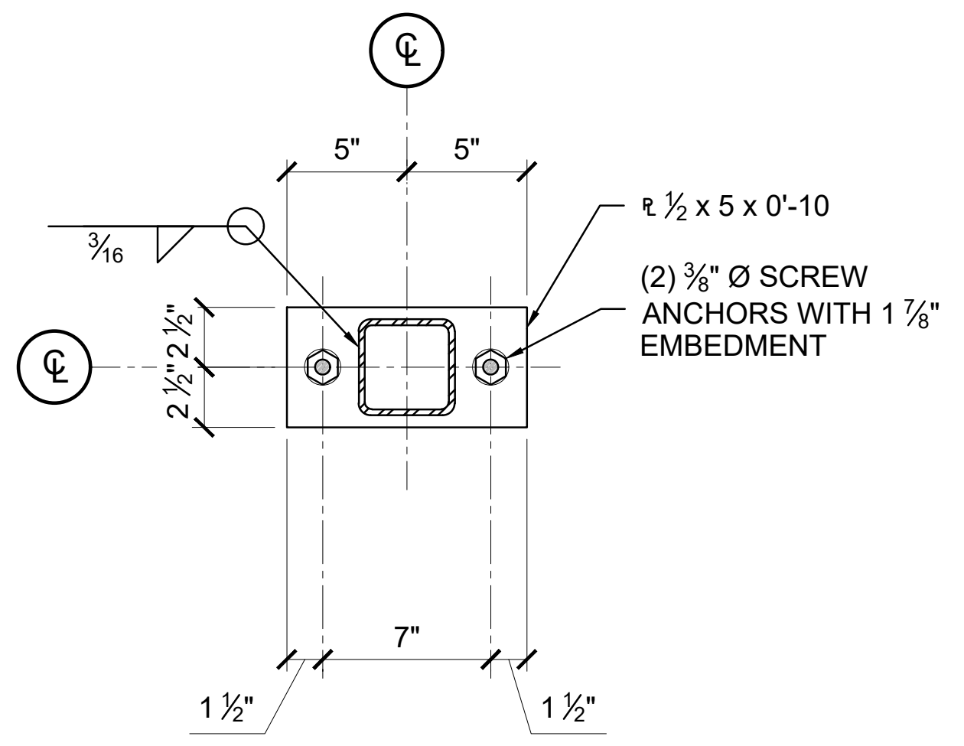
2 / S5.1


3"
CENTERLINE OF COLUMN
TYPICAL EXTERIOR STUD WALL (SEE PLAN)
SEE COLD FORMED METAL FRAMING NOTE 6 ON S0.1 FOR TYPICAL STUD TO TRACK CONNECTION.
FLOOR SLAB (SEE PLAN)
SEE 4 / S5.1
SEE 9 / S4.2
SEE ARCH.

SECTION AT CANOPY COLUMN BOTTOM CONNECTION

SCALE: ¾" = 1'-0"

3 / S5.1



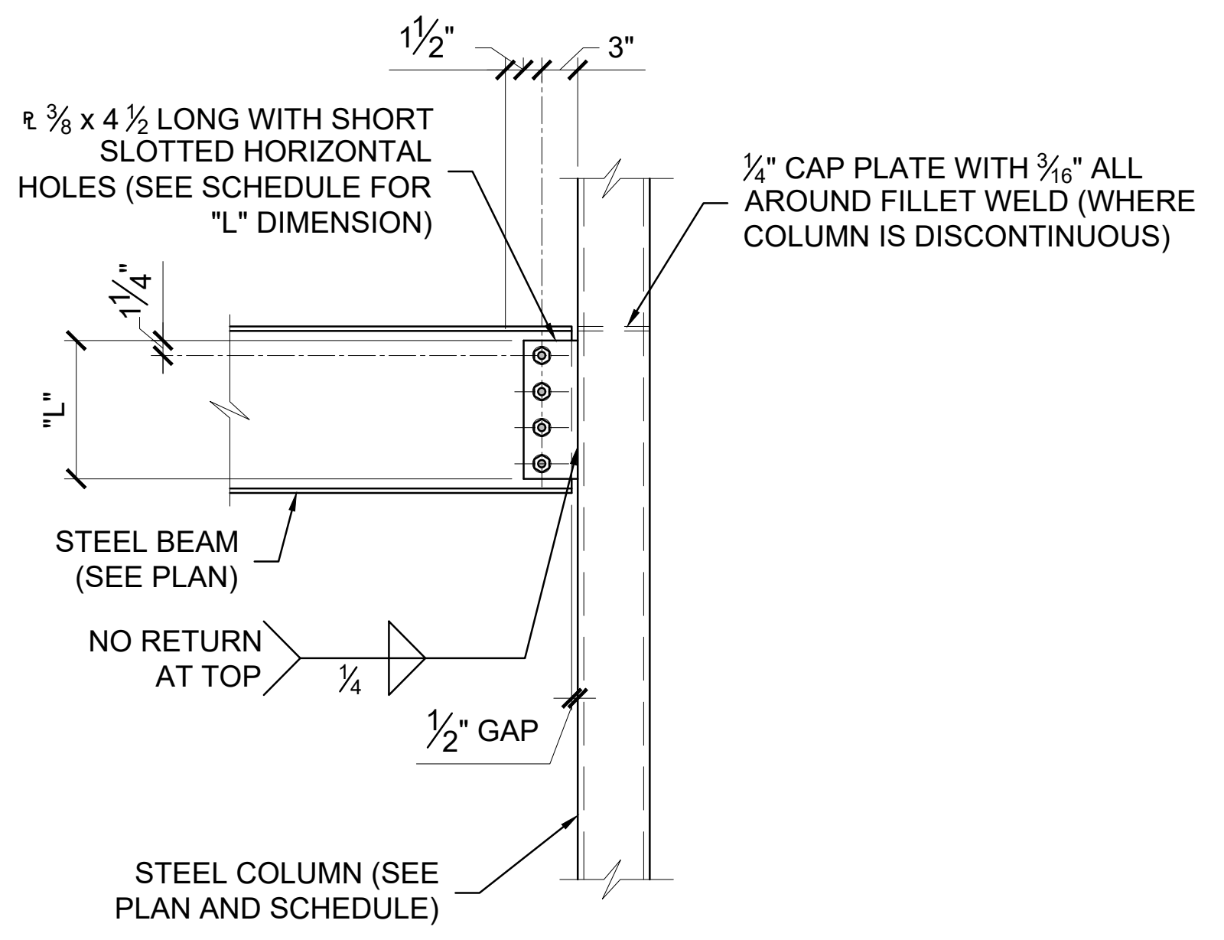
NOTES:

1. HOLE DIAMETER FOR ⅜" Ø SCREW ANCHORS TO BE ½".
2. INSTALL SCREW ANCHORS IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

DETAIL OF POST BASE PLATE

SCALE: 1 ½" = 1'-0"

4 / S5.1


1½"
3"
℞ ⅜ x 4 ½ LONG WITH SHORT SLOTTED HORIZONTAL HOLES (SEE SCHEDULE FOR "L" DIMENSION)
¼" CAP PLATE WITH 3/16" ALL AROUND FILLET WELD (WHERE COLUMN IS DISCONTINUOUS)
1¼"
"L"
STEEL BEAM (SEE PLAN)
NO RETURN AT TOP
¼
½" GAP
STEEL COLUMN (SEE PLAN AND SCHEDULE)

CONNECTION SCHEDULE		
BEAM	NO. OF BOLTS	LENGTH ("L")
W12	3	8 ½"

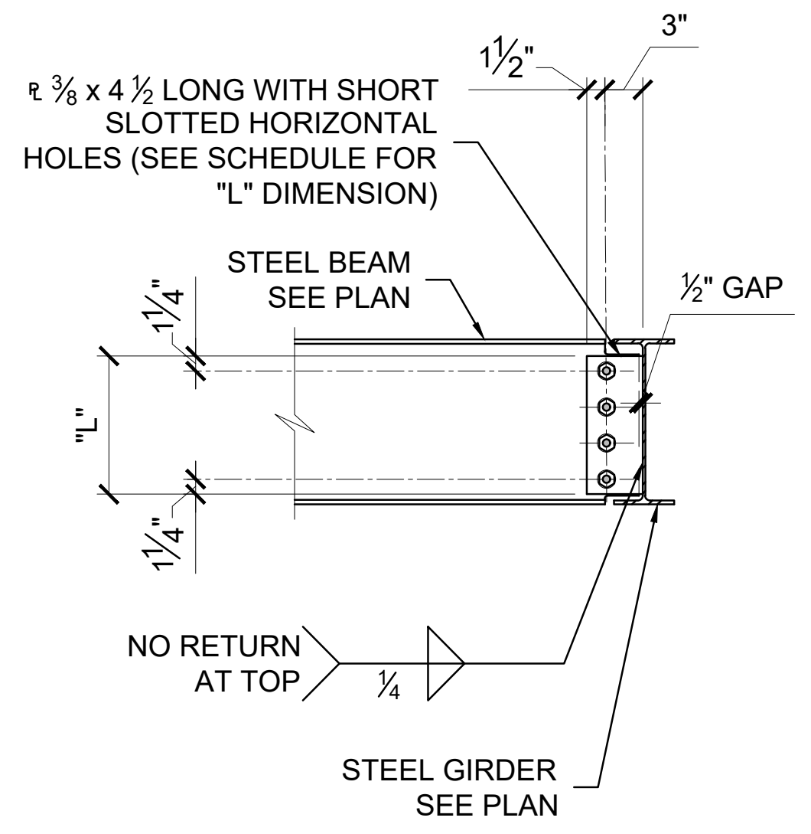
NOTES:

1. BOLTS ARE ¾" Ø A325 BOLTS WITH (1) STANDARD WASHER AND (1) NUT. TYPICAL, UNLESS NOTED OTHERWISE.

DETAIL OF SINGLE PLATE CONNECTION AT COLUMN

SCALE: NONE

5 / S5.1


1½"
3"
℞ ⅜ x 4 ½ LONG WITH SHORT SLOTTED HORIZONTAL HOLES (SEE SCHEDULE FOR "L" DIMENSION)
STEEL BEAM SEE PLAN
½" GAP
1¼"
"L"
1¼"
NO RETURN AT TOP
¼
STEEL GIRDER SEE PLAN

CONNECTION SCHEDULE		
BEAM	NO. OF BOLTS	LENGTH ("L")
W12	3	8 ½"

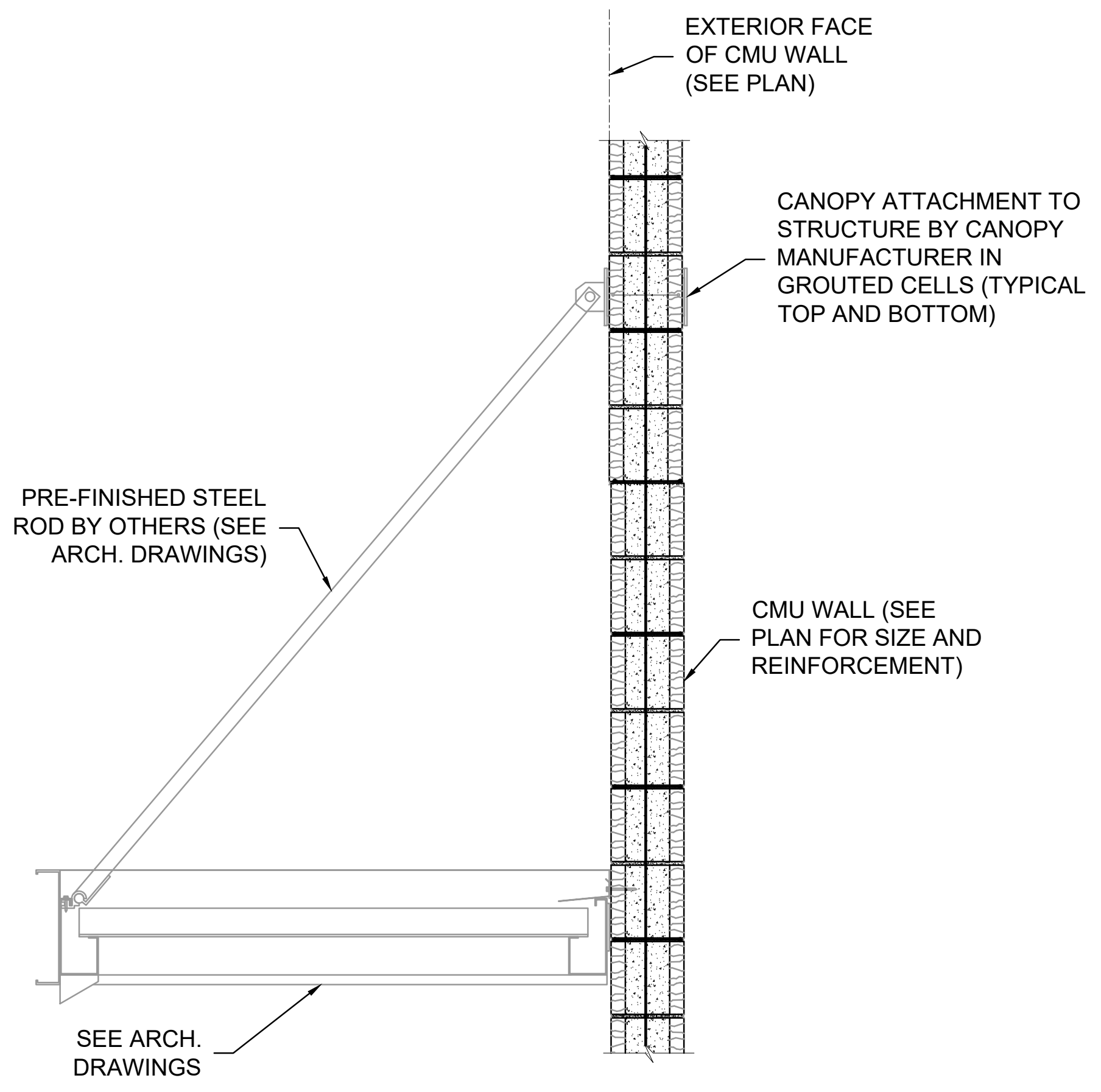
NOTES:

1. BOLTS ARE ¾" Ø A325 BOLTS WITH (1) STANDARD WASHER AND (1) NUT. TYPICAL, UNLESS NOTED OTHERWISE.

DETAIL OF SINGLE PLATE CONNECTION AT BEAM

SCALE: NONE

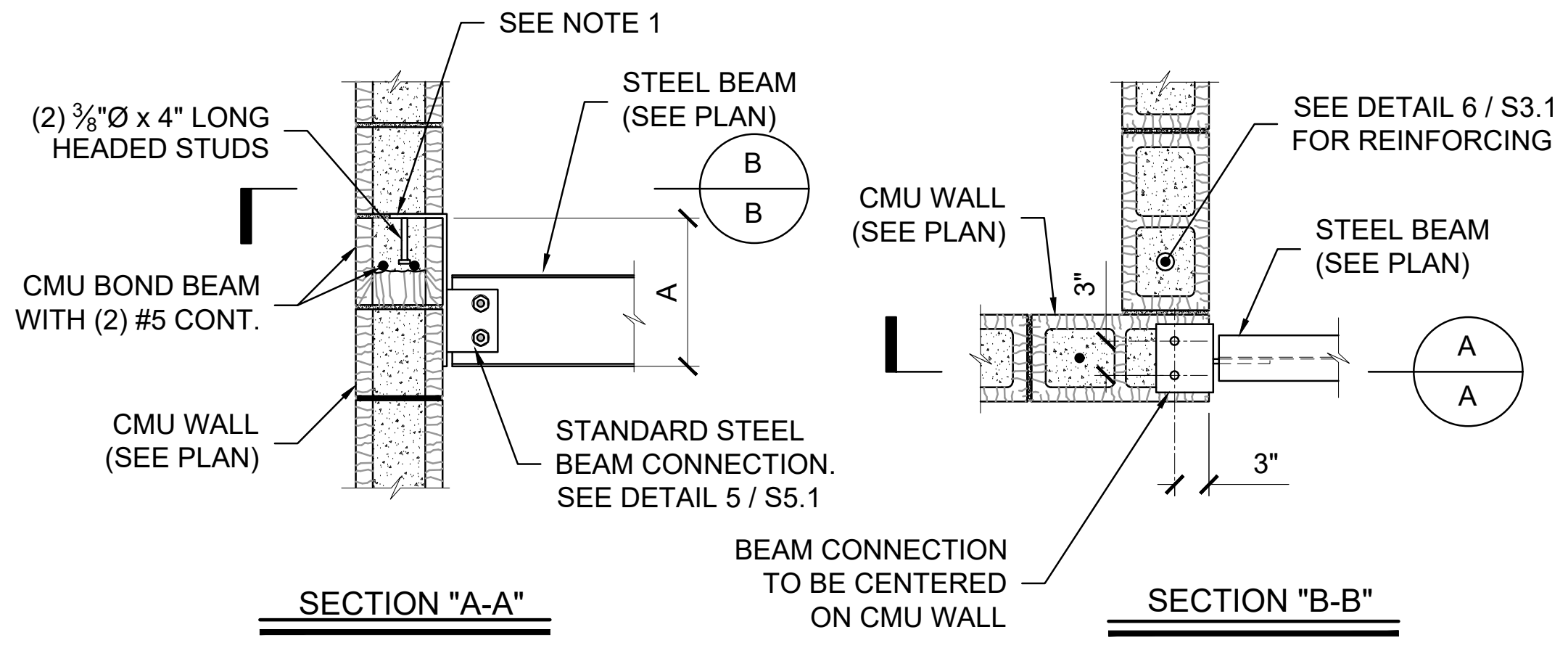
6 / S5.1


EXTERIOR FACE OF CMU WALL (SEE PLAN)
CANOPY ATTACHMENT TO STRUCTURE BY CANOPY MANUFACTURER IN GROUTED CELLS (TYPICAL TOP AND BOTTOM)
PRE-FINISHED STEEL ROD BY OTHERS (SEE ARCH. DRAWINGS)
CMU WALL (SEE PLAN FOR SIZE AND REINFORCEMENT)
SEE ARCH. DRAWINGS

SECTION THRU CANOPY CONNECTION TO CMU WALL AT STOREFRONT

SCALE: ¾" = 1'-0"

7 / S5.1


SEE NOTE 1
(2) ⅜"Ø x 4" LONG HEADED STUDS
STEEL BEAM (SEE PLAN)
B
B
CMU BOND BEAM WITH (2) #5 CONT.
A
CMU WALL (SEE PLAN)
STANDARD STEEL BEAM CONNECTION. SEE DETAIL 5 / S5.1
SEE DETAIL 6 / S3.1 FOR REINFORCING
CMU WALL (SEE PLAN)
3"
STEEL BEAM (SEE PLAN)
A
A
3"
BEAM CONNECTION TO BE CENTERED ON CMU WALL

SECTION "A-A"

SECTION "B-B"

NOTE:

1. ⅜ x 5 x "A" x 0'-8" LONG BENT PLATE, UNLESS NOTED OTHERWISE. "A" DIMENSION AT FLOOR SLAB SUPPORT TO MATCH DEPTH OF BEAM + 5".

DETAIL OF BEAM TO CMU WALL CONNECTION

SCALE: NONE

8 / S5.1

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Life Storage #230
Self Storage Phase II

1639 Route 22
Brewster, NY 10509

STINARD
ARCHITECTURE
INC

cartersville ga 30120
217 s. erwin street
770.425.7400
(F) 770.425.7400
STINARDARCH.COM

ISSUE: FOR CONSTRUCTION
REVISIONS:

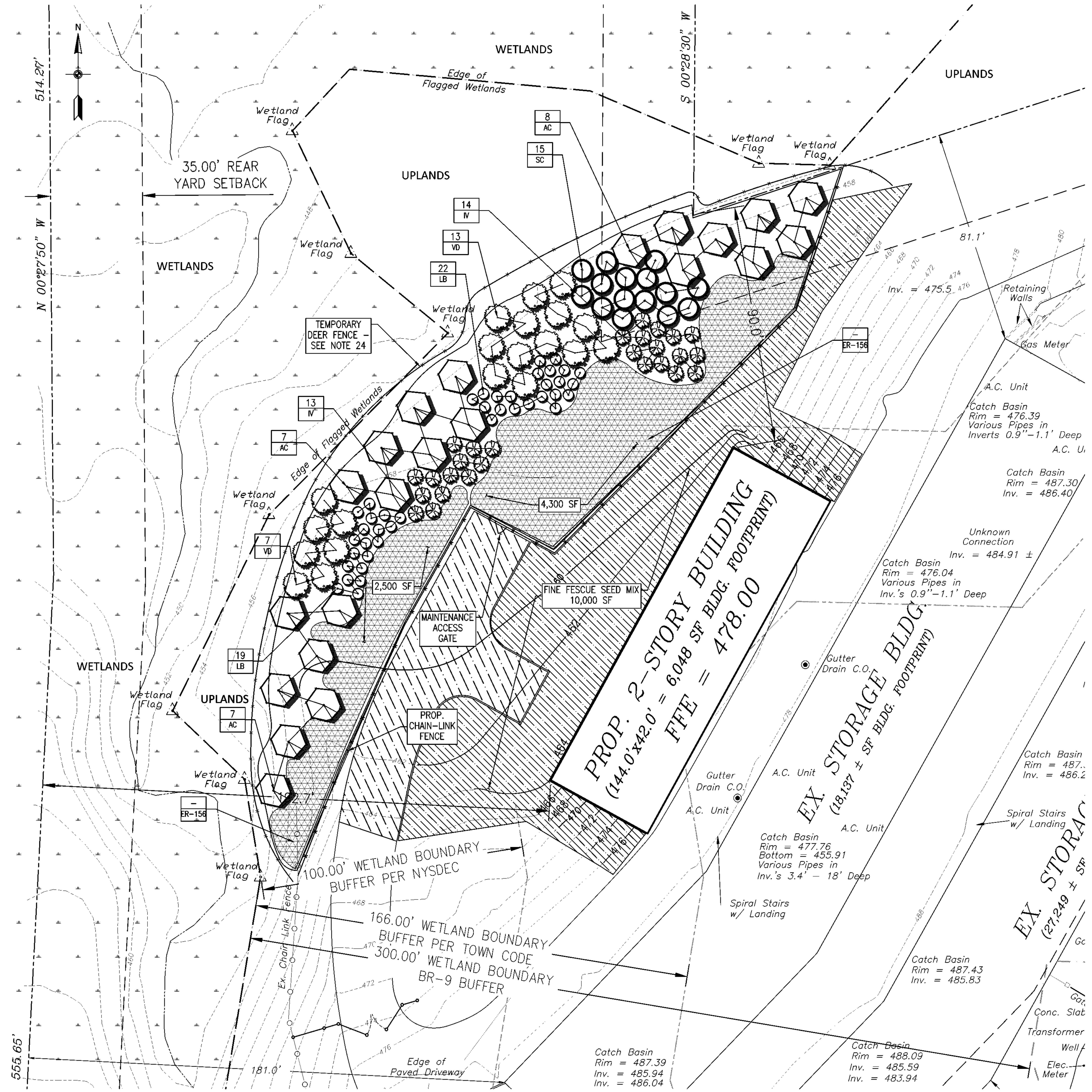
PROJECT NUMBER 201941

DATE 9-28-22

STATE OF NEW YORK
JENNIFER ZABIK
097626
LICENSED PROFESSIONAL ENGINEER
09/28/22

SHEET NUMBER

S5.1


N
WETLANDS
UPLANDS
Edge of Flagged Wetlands
Wetland Flag
35.00' REAR YARD SETBACK
514.27'
N 00°27'50" W
S 00°28'30" W
8 AC
15 SC
14 IV
13 VD
22 LB
13 IV
7 AC
7 VD
19 LB
7 AC
TEMPORARY DEER FENCE - SEE NOTE 24
ER-156
4,300 SF
2,500 SF
MAINTENANCE ACCESS GATE
FINE FESCUE SEED MIX 10,000 SF
PROP. CHAIN-LINK FENCE
PROP. 2-STORY BUILDING (144.0'x42.0' = 6,048 SF BLDG. FOOTPRINT) FFE = 478.00
EX. STORAGE BLDG (18,137 ± SF BLDG. FOOTPRINT)
EX. STORAGE (27,249 ± SF
81.1'
109.7'
181.0'
555.65'
Inv. = 475.5
Retaining Walls
Gas Meter
A.C. Unit
Catch Basin Rim = 476.39 Various Pipes in Inverts 0.9"-1.1' Deep
Catch Basin Rim = 487.30 Inv. = 486.40
Unknown Connection Inv. = 484.91 ±
Catch Basin Rim = 476.04 Various Pipes in Inv.'s 0.9"-1.1' Deep
Gutter Drain C.O.
Catch Basin Rim = 477.76 Bottom = 455.91 Various Pipes in Inv.'s 3.4' - 18' Deep
Spiral Stairs w/ Landing
Catch Basin Rim = 487.43 Inv. = 485.83
Catch Basin Rim = 487.39 Inv. = 485.94 Inv. = 486.04
Catch Basin Rim = 488.09 Inv. = 485.59 Inv. = 483.94
Conc. Slab
Transformer
Well
Elec. Meter
Edge of Paved Driveway
Ex. Chain Link Fence
100.00' WETLAND BOUNDARY BUFFER PER NYSDEC
166.00' WETLAND BOUNDARY BUFFER PER TOWN CODE
300.00' WETLAND BOUNDARY BR-9 BUFFER

WETLAND BUFFER MITIGATION PLAN

0 20' 40'
SCALE IN FEET

NOTE:
CONTRACTOR SHALL MAINTAIN ACCESS FOR PATRONS, EMPLOYEES AND EMERGENCY SERVICE VEHICLES TO THE EXISTING STORAGE BUILDINGS. PROVIDE TEMPORARY FENCING AS NEEDED DURING CONSTRUCTION TO MAINTAIN A SECURED SITE.

Call 811 before you dig

LANDSCAPE/PLANTING NOTES:

1. IT IS THE LANDSCAPE CONTRACTORS RESPONSIBILITY TO VISIT THE SITE PRIOR TO BID MOBILIZATION, TO BECOME FAMILIAR WITH EXISTING CONDITIONS AT THE SITE.
2. STANDARDS SET FORTH IN THE "AMERICAN STANDARD FOR NURSERY STOCK", ANSI Z60.1 (LATEST EDITION) REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE THE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIALS DELIVERED AND INSTALLED ON THIS PROJECT.
3. ALL PLANTS MUST BE HEALTHY, VIGOROUS AND FREE OF PESTS AND DISEASE.
4. ALL PLANTS MUST BE HARDY UNDER CLIMATE CONDITIONS THAT EXIST AT THE PROJECT SITE AND GROWN AT A NURSERY IN THE SAME HARDINESS ZONE AS THE PROJECT LOCATION.
5. ALL PLANTS MUST BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED ON THE PLANT LIST.
6. ANY PROPOSED DEVIATION TO THE LANDSCAPE PLAN MUST FIRST BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO THE INSTALLATION OF THE PROPOSED LANDSCAPING CHANGES.
7. ALL TREES MUST BE STRAIGHT-TRUNKED, INJURY FREE, HAVE A FULL, SYMMETRICAL CROWN (HEAD) AND MEET ALL REQUIREMENTS SPECIFIED (E.G. SINGLE STEM, MULTI-STEM, HEAVY BRANCHED, ETC.).
8. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS.
9. ANY DISCREPANCIES IN THE QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND/OR LANDSCAPE ARCHITECT (OWNER'S REPRESENTATIVE).
10. ANY CONCERNS RELATED TO SITE CONDITIONS AND/OR PLANT LOCATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND/OR DESIGN LANDSCAPE ARCHITECT (OWNER'S REPRESENTATIVE) PRIOR TO INSTALLATION.
11. ALL GRADING AND UTILITY WORK SHALL BE COMPLETED PRIOR TO INSTALLATION OF PLANT MATERIAL AND LANDSCAPE MULCH.
12. THE FINAL LOCATION OF TREES AND OTHER LANDSCAPING SHALL BE DETERMINED IN THE FIELD BASED ON UTILITY STAKEOUT AND SHALL NOT CONFLICT WITH TRAFFIC SIGNS AND/OR UTILITIES. STAKE OUT SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO BEGINNING WORK.
13. PLANTING BACKFILL MIXTURE: 20 PARTS ON-SITE SOIL, 10 PARTS SCREENED TOPSOIL, 5 PARTS PEAT MOSS, 5 PARTS ALL GROW, 2.5 PARTS WELL ROTTED MANURE AND 10 LBS. 5-10-5 PLANTING FERTILIZER, MIXED THOROUGHLY PER CUBIC YARD.
14. PLANTINGS PLACED ON STEEP SLOPES SHALL HAVE PROPER BIO-DEGRADABLE EROSION CONTROL BLANKETS INSTALLED TO PROVIDE SUFFICIENT SOIL STABILITY.
15. MULCH ALL PLANT BEDS, AND INDIVIDUAL TREES IN LAWN AREAS WITH COMPOSTED AND AGED SHREDDED HARDWOOD BARK MULCH TO A DEPTH OF FOUR (4") INCHES UNLESS OTHERWISE SPECIFIED ON PLANTING DETAILS, OR AS DIRECTED BY THE LANDSCAPE ARCHITECT DUE TO SITE CONDITIONS. MULCH SAMPLE TO BE SUBMITTED TO THE OWNER OR THE OWNER'S REPRESENTATIVE FOR FINAL APPROVAL.
16. ANY PLANT WHICH TURNS BROWN, DEFOLIATES OR DIES PRIOR TO FINAL ACCEPTANCE BY THE OWNER, OR LANDSCAPE ARCHITECT, SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH THE SAME PLANT (SPECIES, VARIETY AND SIZE) AS SPECIFIED ON THE PLANT SCHEDULE (LIST).
17. THE CONTRACTOR SHALL MAINTAIN ALL PLANT MATERIALS UNTIL THE PROJECT HAS RECEIVED FINAL ACCEPTANCE BY THE OWNER OR OWNER'S REPRESENTATIVE. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO: WATERING, MULCHING, FERTILIZING, SPRAYING (FUNGICIDE, PESTICIDE, ANTI-DESICANT, AS WELL AS RAISING PLANTS THAT HAVE SETTLED TOO DEEP OR REQUIRE STRAIGHTENING.
18. ALL AREAS DISTURBED BY SITE GRADING AND/OR UTILITY INSTALLATION SHALL RECEIVE APPROVED TOPSOIL (BASED ON APPROVED SAMPLES SUBMITTED BY THE CONTRACTOR) AND SPREAD TO A DEPTH NOT LESS THAN SIX (6") INCHES AFTER COMPACTION. TOPSOIL PLACED FOR LAWNS SHALL BE FINE GRADED, SEEDED, MULCHED AND WATERED UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED. THIS IS EXCLUDING FOUNDATION PLANT BEDS, LANDSCAPE ISLANDS AND ENTRANCE AREAS.
19. ALL PLANTING BETWEEN GRAVEL PAVEMENT TO REMAIN AND WETLAND (AS WELL AS SLOPED AREA BETWEEN PROPOSED BUILDING AND GRAVEL PAVEMENT TO REMAIN) SCHEDULED TO RECEIVE PLANTINGS, OR SEED MIX: EXCAVATE AND DISPOSE OF EXISTING GRAVEL, DEBRIS AND NON-SUITABLE MATERIALS TO A DEPTH OF 18" OR UNTIL SUITABLE SUB-SOIL IS ENCOUNTERED, AT A MINIMUM. REFERENCE SITE REMEDIATION FOR ADDITIONAL REQUIREMENTS.
20. LOCATIONS OF EXISTING BURIED UTILITIES SHOWN ON THE SITE PLAN ARE BASED UPON THE BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE.THE CONTRACTOR IS RESPONSIBLE TO CALL FOR A UTILITY STAKEOUT PRIOR TO COMMENCING PLANT INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, AND SITE APPURTENANCES WHICH OCCURS AS A RESULT OF LANDSCAPE INSTALLATION OPERATIONS.
21. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR NEW PLANTINGS OR RESTORATION OF ALL DISTURBED AREAS (LAWNS, PLANT BEDS).
22. EXISTING TREES TO REMAIN SHALL BE PROTECTED BY INSTALLING A TEMPORARY FENCE AT THE OUTER LIMITS OF THE TREE CANOPY.
23. ALL SHRUB BEDS ADJACENT TO LAWN AREAS SHALL HAVE A SPADED EDGE BORDER.
24. TEMPORARY DEER FENCING SHALL BE INSTALLED AROUND THE PERIMETER OF THE PROPOSED WETLAND BUFFER MITIGATION AREA AND REMAIN IN PLACE FOR A MINIMUM OF THREE YEARS, TO MINIMIZE THE IMPACT FROM DEER BROWSING.

Life Storage Brewster Plant List

Key	No.	Botanical Name	Common Name	Min. Size	Remarks
TREES					
AB	4	*Abies concolor*	White Fir	5-6' hgt., B&B	spacing as shown
AC	22	*Amelanchier canadensis*	Serviceberry	4-5' hgt., B&B	multi-stem, 20' spc.
TP	3	*Thuja plicata 'Green Giant'*	Green Giant Arborvitae	5-6' hgt., B&B	spacing as shown
SHRUBS					
IV	31	*Ilex verticulata 'Winter Red'*	Winter Red Winterberry	#5 cont.	5-6' spacing
LB	41	*Lindera benzoin*	Common Spicebush	#3 cont.	3-4' spacing
SC	15	*Sambucus canadensis 'aurea'*	Elderberry	#5 cont.	8-9' spacing
VD	20	*Viburnum dentatum*	Arrowwood Viburnum	3-4' hgt. B&B	7-8' spacing
ORNAMENTAL GRASSES					
CA	24	*Calamagrostis x acutiflora 'Karl Foerster'*	Karl Foerster Feather Reed Grass	#3 cont.	3' spacing
ER-156	±6,800 SF	*Ernst Conservation Seeds- mix 156*	Low-growing wildflower & Grass mix		
▨		*73% Sheep fescue with variety of wildflowers*		1 LB PER 1,000 SF	
SLOPES/BANK SEED MIXES - Use Bio-degradable Erosion Control					
SLOPES		FINE FESCUE SEED MIX		4 LBS PER 1,000 SF	
▨	±10,000 SF	*Chewings / Creeping Red / Sheeps / Hard*	40:30:15:15 MIX		
		Use Annual Ryegrass as cover crop		4 LBS PER 1,000 SF	

(*) PLANT MATERIAL SELECTIONS SOURCE: NYS Stormwater Management Design Manual – Appendix 'H'

Greenman-Pedersen, Inc.
Engineering and Construction Services
In Western New York:
BUFFALO (716) 633-4844 • ROCHESTER (585) 486-4859 • JAMESTOWN (716) 488-2803
GPI

No. 131

SCALE: AS NOTED
DATE: OCTOBER 18, 2019
DWG NO.: LP-1
DRAWN BY: J.R.
CHECKED BY: T.W.
JOB NO.: JDR

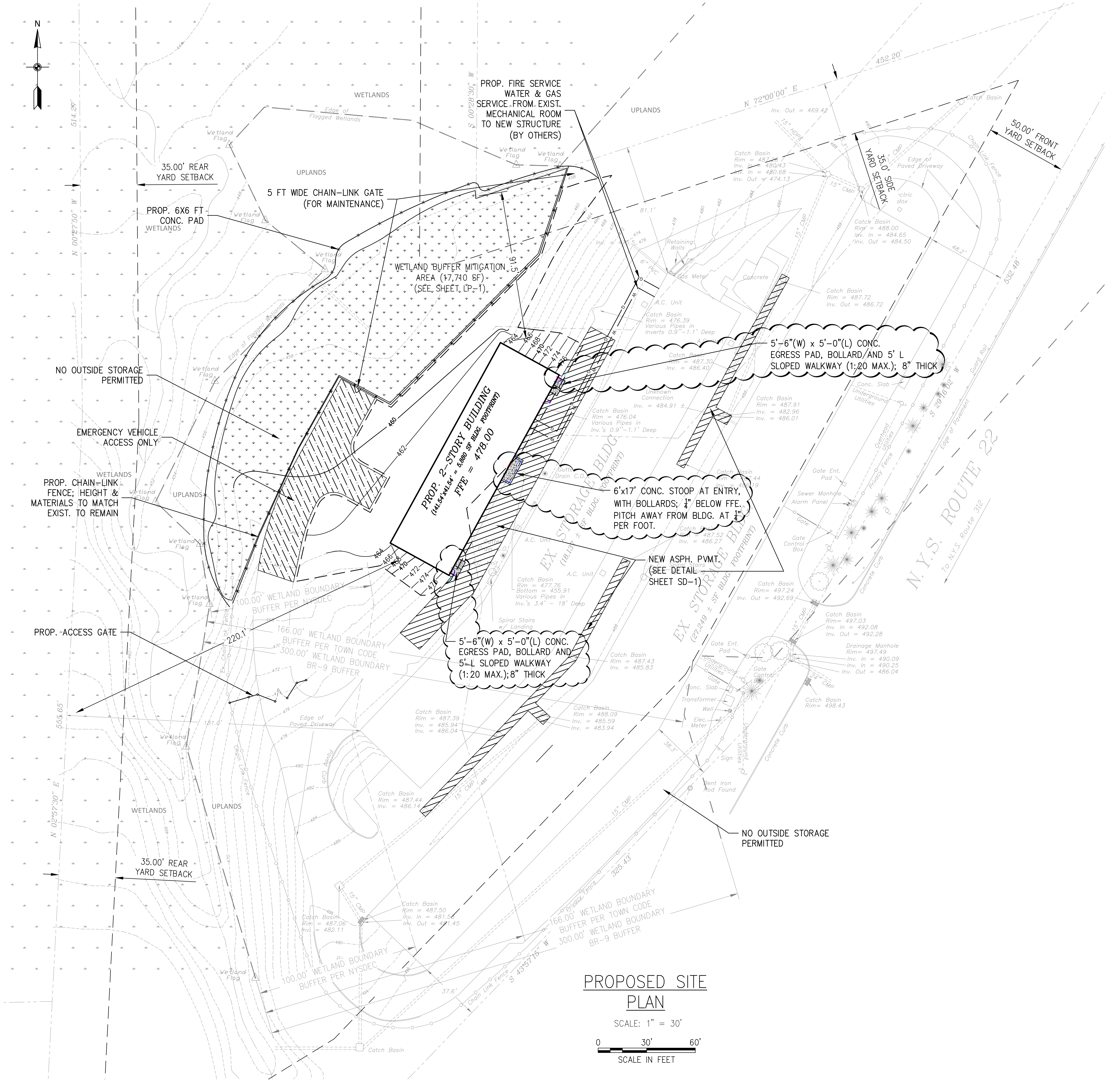
NO.	REVISIONS:	BY	DATE
1	ADDITIONAL PLANTINGS AT SITE ENTRY		1/3/2020

LP-1_WETLAND BUFFER MITIGATION PLAN

LIFE STORAGE, INC.
(SITE #230 BREWSTER)
TOWN OF SOUTHEAST - PUTNAM COUNTY, NY

SHEET NO.
08

WARNING: ALTERATIONS TO THIS DOCUMENT NOT CONFORMING TO SECTION 7209, SUBDIVISION 2, STATE EDUCATION LAW, ARE PROHIBITED


N
PROP. FIRE SERVICE WATER & GAS SERVICE FROM EXIST. MECHANICAL ROOM TO NEW STRUCTURE (BY OTHERS)
35.00' REAR YARD SETBACK
5 FT WIDE CHAIN-LINK GATE (FOR MAINTENANCE)
PROP. 6X6 FT CONC. PAD
WETLAND BUFFER MITIGATION AREA (17,710 SF) (SEE SHEET LP-1)
NO OUTSIDE STORAGE PERMITTED
EMERGENCY VEHICLE ACCESS ONLY
PROP. CHAIN-LINK FENCE; HEIGHT & MATERIALS TO MATCH EXIST. TO REMAIN
PROP. ACCESS GATE
PROP. 2-STORY BUILDING (141.54'x41.54' = 5,880 SF BLDG. FOOTPRINT) FFE = 478.00
5'-6"(W) x 5'-0"(L) CONC. EGRESS PAD, BOLLARD AND 5' L SLOPED WALKWAY (1:20 MAX.); 8" THICK
6'x17' CONC. STOOP AT ENTRY, WITH BOLLARDS; 1/4" BELOW FFE. PITCH AWAY FROM BLDG. AT 1/4" PER FOOT.
NEW ASPH. PVMT. (SEE DETAIL SHEET SD-1)
5'-6"(W) x 5'-0"(L) CONC. EGRESS PAD, BOLLARD AND 5' L SLOPED WALKWAY (1:20 MAX.);8" THICK
EX. STORAGE BLDG. (18,137 ± SF BLDG. FOOTPRINT)
EX. STORAGE BLDG. (27,249 ± SF BLDG. FOOTPRINT)
35.0' SIDE YARD SETBACK
50.00' FRONT YARD SETBACK
N 72°00'00" E
452.20'
N.Y.S. ROUTE 22
To N.Y.S. Route 312
S 29°16'02" W
532.48'
100.00' WETLAND BOUNDARY BUFFER PER NYSDEC
166.00' WETLAND BOUNDARY BUFFER PER TOWN CODE
300.00' WETLAND BOUNDARY BR-9 BUFFER
NO OUTSIDE STORAGE PERMITTED
35.00' REAR YARD SETBACK
S 43°57'15" W
325.43'
N 02°57'30" E
655.65'
N 00°27'50" W
514.29'
220.1'
WETLANDS
UPLANDS
Wetland Flag
Edge of Flagged Wetlands
Edge of Paved Driveway
Catch Basin
A.C. Unit
Gas Meter
Concrete
Spiral Stairs w/ Landing
Gate Ent. Pad
Sewer Manhole
Alarm Panel
Gate Control Box
Transformer
Well
Elec. Meter
Privacy Fence
Concrete Curb
Edge of Pavement
Iron Rod Found
Sign
Chain Link Fence
15" CMP
24" CMP

PROPOSED SITE PLAN

SCALE: 1" = 30'

0 30' 60'

SCALE IN FEET

		HC ZONING	EXISTING	PROPOSED
MINIMUM LOT SIZE	SQUARE FEET (THOUSANDS)	40	435.6	435.6
	FRONTAGE (FEET)	150	1109.59	1109.59
	WIDTH (FEET)	150	244.14	244.14
	DEPTH (FEET)	150	1031.75	1031.75
MINIMUM YARDS	FRONT (FEET)	50	37.5 (EXIST. BUILDING)	37.6 (EXIST. BUILDING)
	SIDE (FEET)	35	181 (EXIST. BUILDING)	192.7 (PROP. BUILDING)
	REAR (FEET)	35	75.3 (EXIST. BUILDING)	90.0 (PROP. BUILDING)
MAXIMUM COVERAGE	BUILDING COVERAGE	15%	10.42%	11.81%
	FLOOR AREA RATIO	0.3	0.21	0.25
	LOT COVERAGE	45%	29.30%	25.60%
OPEN SPACE REQUIREMENTS	(PERCENTAGE OF LOT)	55%	70.70%	74.40%
MAXIMUM HEIGHT	STORIES	2	2	2
	FEET	35	14.8	22.42
PARKING SETBACK	FRONT (FEET)	25	122.27	122.27
	SIDE (FEET)	15	179.06	179.06
	REAR (FEET)	15	351.63	351.63

PARKING REQUIRED FOR WAREHOUSES = 1 SPACE PER 1.5 EMPLOYEES DURING THE LARGEST DAILY WORK SHIFT PERIOD,

TOTAL PARKING REQUIRED = 3
SPACES PROVIDED = 4

PARKING SPACE SIZE REQUIRED = 9'X18'
PARKING SPACE SIZE PROVIDED = 9'X18'

KEY:

▨	WETLAND BUFFER MITIGATION
▨	FULL DEPTH ASPHALT REPAIR
▨	EX. GRAVEL PAVEMENT TO REMAIN
—×—	CHAIN-LINK FENCE
— — —	PROPOSED DISTURBANCE WITHIN 166' BUFFER = 16,150 SF
—○—	PROPOSED GAS SERVICE (BY OTHERS)
— W —	PROPOSED FIRE SERVICE WATER (BY OTHERS)

NOTE:
CONTRACTOR SHALL MAINTAIN ACCESS FOR PATRONS, EMPLOYEES AND EMERGENCY SERVICE VEHICLES TO THE EXISTING STORAGE BUILDINGS. PROVIDE TEMPORARY FENCING AS NEEDED DURING CONSTRUCTION TO MAINTAIN A SECURED SITE.

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GPI

STATE OF NEW YORK
GREENMAN PEDERSEN INC.
No. 131
LICENSED PROFESSIONAL ENGINEER

SCALE: AS NOTED		DRAWN BY:	C.Y.
DATE: OCTOBER 18, 2019		CHECKED BY:	T.W.
DWG NO.: SP-1		JOB NO.:	BUF-2015049.041
NO.	REVISIONS:	BY	DATE
1	UPDATED ARCH. PLANS; EGRESS PADS	JDR	6/02/20

SP-1_PROPOSED SITE & UTILITY PLAN

LIFE STORAGE, INC.
(SITE #230 BREWSTER)
TOWN OF SOUTHEAST - PUTNAM COUNTY, NY

SHEET NO.
05

WARNING: ALTERATIONS TO THIS DOCUMENT NOT CONFORMING TO SECTION 7209, SUBDIVISION 2, STATE EDUCATION LAW, ARE PROHIBITED

PHILIPS
Stonco

Wall mount

LytePro LED Sconce

LPW32

LED

Project:

Location:

Cat.No:

Type:

Quantity:

Notes:

The Philips Stonco LytePro LED Small Wall Sconce LPW32 features outstanding value in a compact, architectural design. This wall sconce features state-of-the-art, long-life and maintenance savings, in a combined discreet LED package with high precision over-optic design. This powerful and precise combination offers outstanding energy savings with excellent photometric performance. LPW32 is ideal for building perimeters and corridors in addition to wall lighting applications requiring strong lateral spacing and forward pattern projection.

Stocked luminaires – Ordering guide[1]

Catalog Number	Description	UPC Code
LPW32-78DGY	LPW32, 71W, 700mA, 4000K, 120-277V, Dark gray textured paint	786034960564
LPW32-78WH	LPW32, 71W, 700mA, 4000K, 120-277V, White textured Paint	786034960571
LPW32-78BZ	LPW32, 71W, 700mA, 4000K, 120-277V, Bronze textured paint	786034960588
LPW32-71BZPCB	LPW32, 71W, 700mA, 4000K, 120V, Bronze textured paint, w/button photocell	786034960595
LPW32-7DTBZMR	LPW32, 71W, 700mA, 4000K, 120 or 277V, Bronze textured paint, w/motion response	786034960601

Stocked accessories - Ordering guide (Must be ordered separately)

Catalog Number	Description	UPC Code
LPWCVRPLT-BZ	LPW Universal wall cover mounting plate, Bronze textured paint	786034960618

Description of catalog codes

Family	Drive current	Voltage	Finish	Options
LPW32 = LytePro 32 LED Small Wall Sconce	7 = 700mA drive current	8 = 120-277V 1 = 120V DT = Dual Tap, 120V or 277V	BZ = Bronze textured paint DGY = Dark gray textured paint WH = White textured paint	PCB = Button photocontrol MR = Motion response

1. Color availability and options vary by model; consult stock luminaires ordering guide above.

LPW32 LytePro LED Small Wall Sconce

Features

LPW32 wall sconce delivers 6,913 lumens at 71W, with an efficacy of 98 lumens per watt.

- LP32W-7, 71W LED may effectively replace 150-250W HID luminaires[2]
- 4000K neutral white at 70 CRI (minimum) is standard
- LPW32 offers three in-stock colors on standard units
- Button photocell available in 120V, bronze luminaires only
- Motion sensor available in bronze luminaires only, operates on 120V or 277V input only. After 10 minutes, dims down to 25% of full light output if no occupancy is detected
- 5-year limited warranty, see philips.com/warranties for specific details

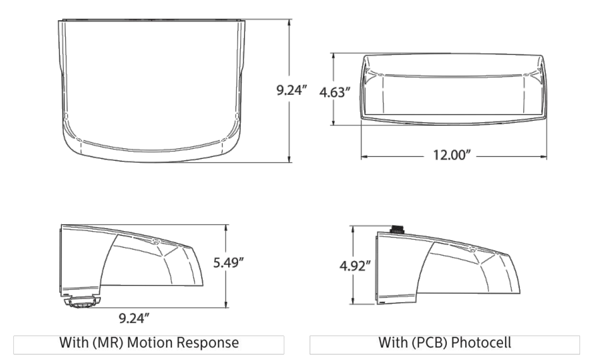
Performance/Specifications

Distribution	Type 3
Initial Lumens	6,913
Average Wattage	71
Lumens/Watt	98
BUG Rating*	B1/U0/G1
Luminaire Weight	~11 lbs (5Kg)

Ratings/Approbations/Certifications

Ingress Protection	IP65 Optical
DLC Listed	DLC QPL
cETLus	Certified for use in wet locations
Rated Ambient Temperature	-40°C (-40°F) to 40°C (104°F)

Fixture Dimensions[3]

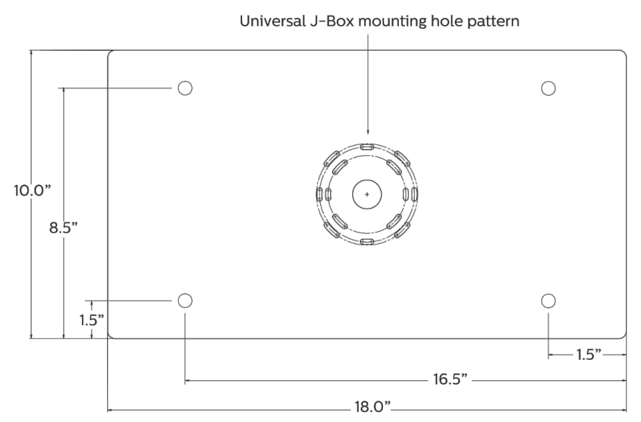


With (MR) Motion Response

With (PCB) Photocell

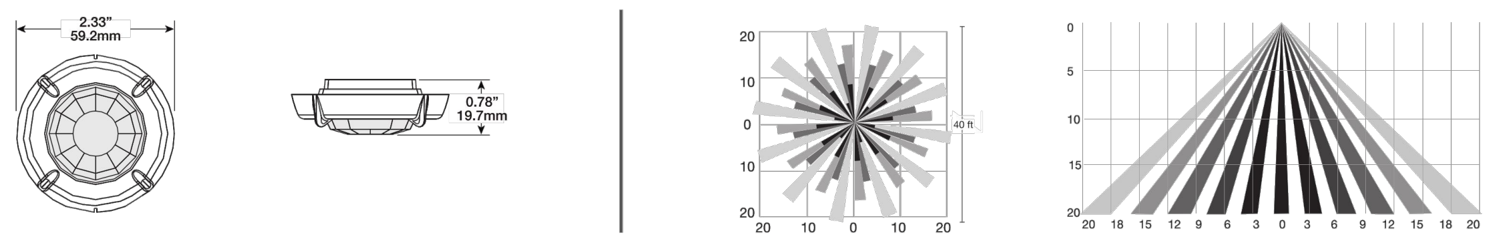
Accessory Dimensions (ordered separately)

LPWCVRPLT-BZ LPW Universal wall cover mounting plate, 0.08" aluminum, bronze textured paint (used to cover larger pre-existing opening or surfaces, field installed). Offers same J-Box pattern as luminaire or may lagged to wall using (4) knockouts.



Occupancy Sensor

WattStopper® FSP-Lx Lens Modules for FSP-211 PIR Occupancy Sensor.

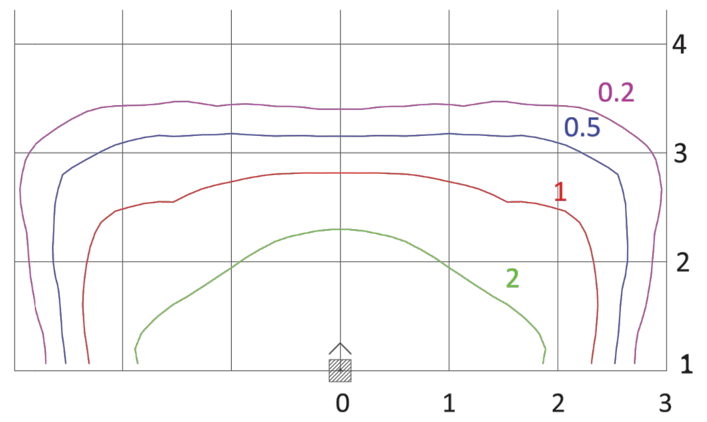


2. Comparable equivalency to HID and other lamp sources depends on multiple criteria including mounting height, fixture spacing, efficiency, performance and classification of the luminaire being replaced and application lighting criteria required for the given project.
3. PCB and MR shown for placement only, available on specific models only (see ordering guide).

Distribution Pattern

LPW32 15' MOUNTING HEIGHT			
MOUNTING HEIGHT	12'	15'	18'
MULTIPLIER	1.56	1.0	0.67

- Isolines shown at 2.0, 1.0, 0.5, & 0.2 FC.
- Choose mounting height. Use MULTIPLIER (X) EXISTING FC VALUE = NEW FC VALUE.
- FC values are based on initial lumen output.
- Gridline spacing is in units of chosen mounting height



LPW32 LytePro LED Small Wall Sconce

General Description

The Philips Stonco LytePro LED Medium Wall Sconce LPW32 combines excellent performance, design and value to meet the needs of the energy and budget conscious. The LPW32 is available for use in downward facing, surface wall mount applications, over recessed j-boxes or where power can be directly fed through back surface, whereby connections splices can be made inside the luminaire housing. Five SKU's are available as in-stock configurations (2-day quick ship).

Three standard units are available in three different finishes. A button photocell is available in 120V in bronze finish only. Motion response with occupancy sensor is available in bronze finish only and is California Title 24 compliant.

Housing

Die-cast housing houses both the LED and driver assemblies. Design incorporates an integrated heat sink to maximize thermal performance and reliability. Backplate is corrosion free, composite polycarbonate, with built-in level bubble, offers integral interlocking hook and mount design for easy installation.

Mounting

Easy interlocking hook and mount housing/backplate design for easy installation. Mounts over 3.5", 4" octagonal j-boxes and single gang switch boxes or can be directly lagged to surface. Ensure proper steps for gasket/sealing luminaire to surface.

IP Rating

Optical compartment is IP65 rated.

LED Board and Array

Provides up to 98 lm/W in LPW32 at the system level. Standard color temp is 4000K +/- 250K, minimum 70 CRI.

Electrical

Driver efficiency (>90% standard). 120-277V. Temp range: -40°C (-40°F) to 40°C (104°F). Open/short circuit protection. Inherent surge protection up to (4KVA). RoHS compliant.

Listings

Product is cETLus listed suitable for Wet Locations. Suitable for use in ambients from -40°C to 40°C (-40°F to 104°F). DesignLights Consortium® qualified. Stocked SKUs of the LPW family are made in China.

Finish

Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Two standard colors are available: Dark Grey, Bronze and White. Specific options are only available in bronze.

Motion Response (MR)

LPW32 luminaires with option "MR" include a passive infrared (PIR) motion sensor (WattStopper® FSP-211 equipped with an FS-L3W lens) capable of detecting motion within 15 feet of the sensor around the luminaire, when placed at an 15 foot mounting height. Available in 120V or 277V input only. Motion sensor off state power is 0.0 watts. When no motion is detected for 10 minutes, the Motion Response system reduces the wattage by 75%, to 25% of the normal constant wattage reducing the light level accordingly. When motion is detected by the PIR sensor, the luminaire returns to full power and full light output. Dimming on low is factory set to 75% with 10 minute default in "full power" prior to dimming back to 25%. Reprogramming of the sensor is possible through the Wattstopper FS1R-100 remote handheld programming tool (sold separately). More information on the FS1R-100 is available at www.wattstopper.com or contact Philips Technical Support.

Warranty

LPW32 luminaires, the LED arrays, and the drivers are all covered by a 5-year limited warranty. See philips.com/warranties for details.

LED Performance:

PREDICTED LUMEN DEPRECIATION DATA[4,6]

Ambient Temp. °C	Calculated L70 hrs[5]	Reported L70 Per TM-21[5,6]	Calculated Lumen Maint. % @60,000 hrs
up to 40°C	>200,000 hrs	>60,000 hrs	94.0%

4. Calculated performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.
5. L70 is the predicted time when LED performance depreciates to 70% of initial lumen output.
6. Reported per IESNA TM21-11. Published L70 hours limited to 6 times actual LED test hours.

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philips.com/luminaires

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GREENMAN PEDERSEN INC.
No. 131

SCALE: AS NOTED
DATE: OCTOBER 18, 2019
DWG NO.: LD-2
DRAWN BY: C.Y.
CHECKED BY: T.W.
JOB NO.: BUF-2015049.041

NO.	REVISIONS:	BY	DATE

LD-2_LIGHTING DETAILS 2

LIFE STORAGE, INC.
(SITE #230 BREWSTER)
TOWN OF SOUTHEAST - PUTNAM COUNTY, NY

SHEET NO.
12

WARNING: ALTERATIONS TO THIS DOCUMENT NOT CONFORMING TO SECTION 7209, SUBDIVISION 2, STATE EDUCATION LAW, ARE PROHIBITED

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