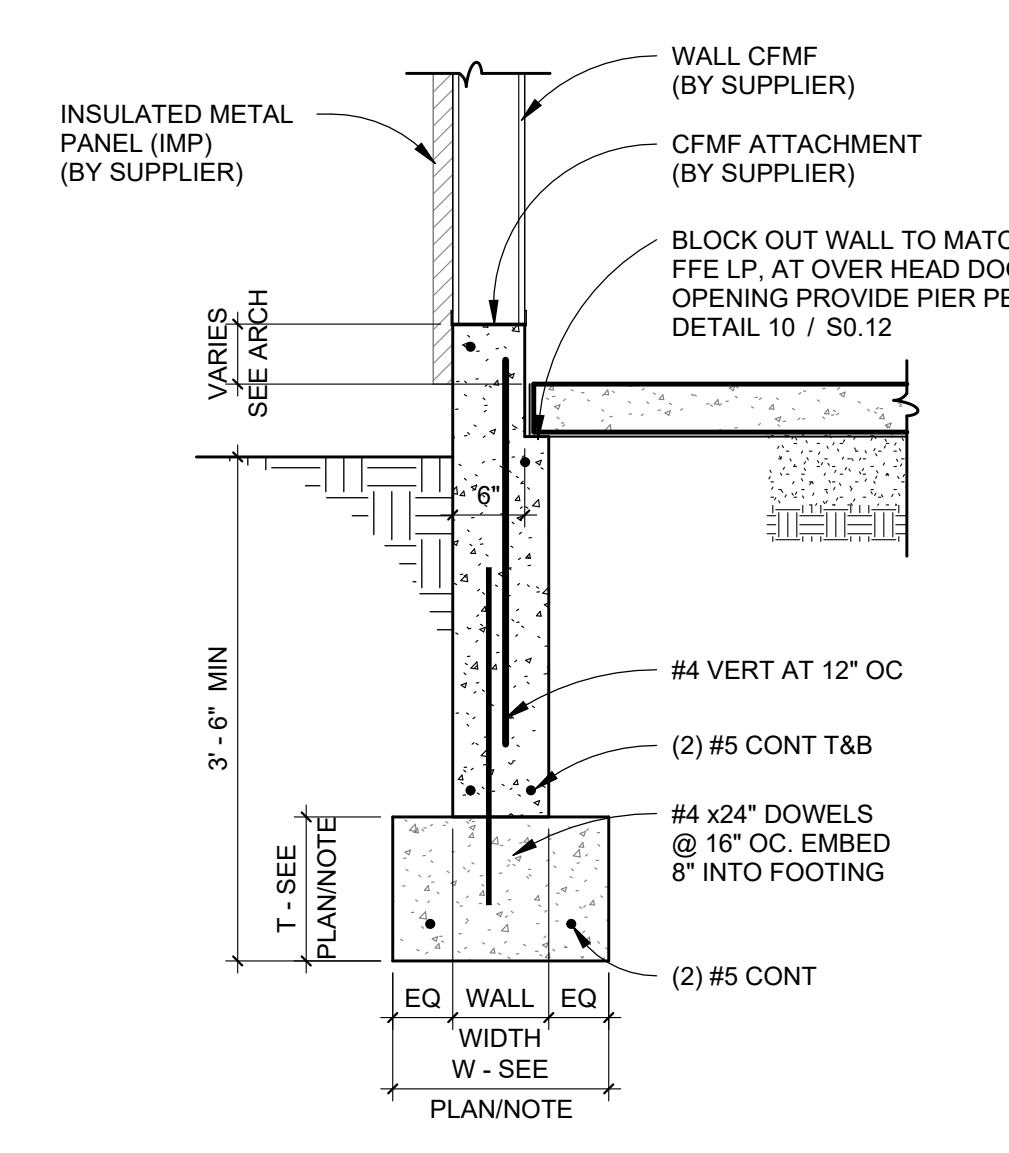
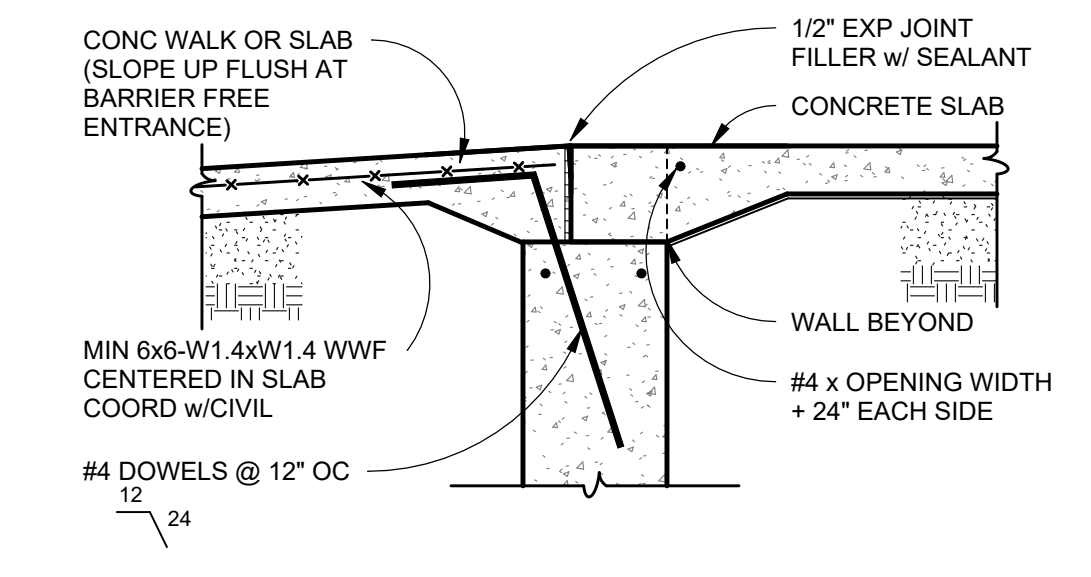


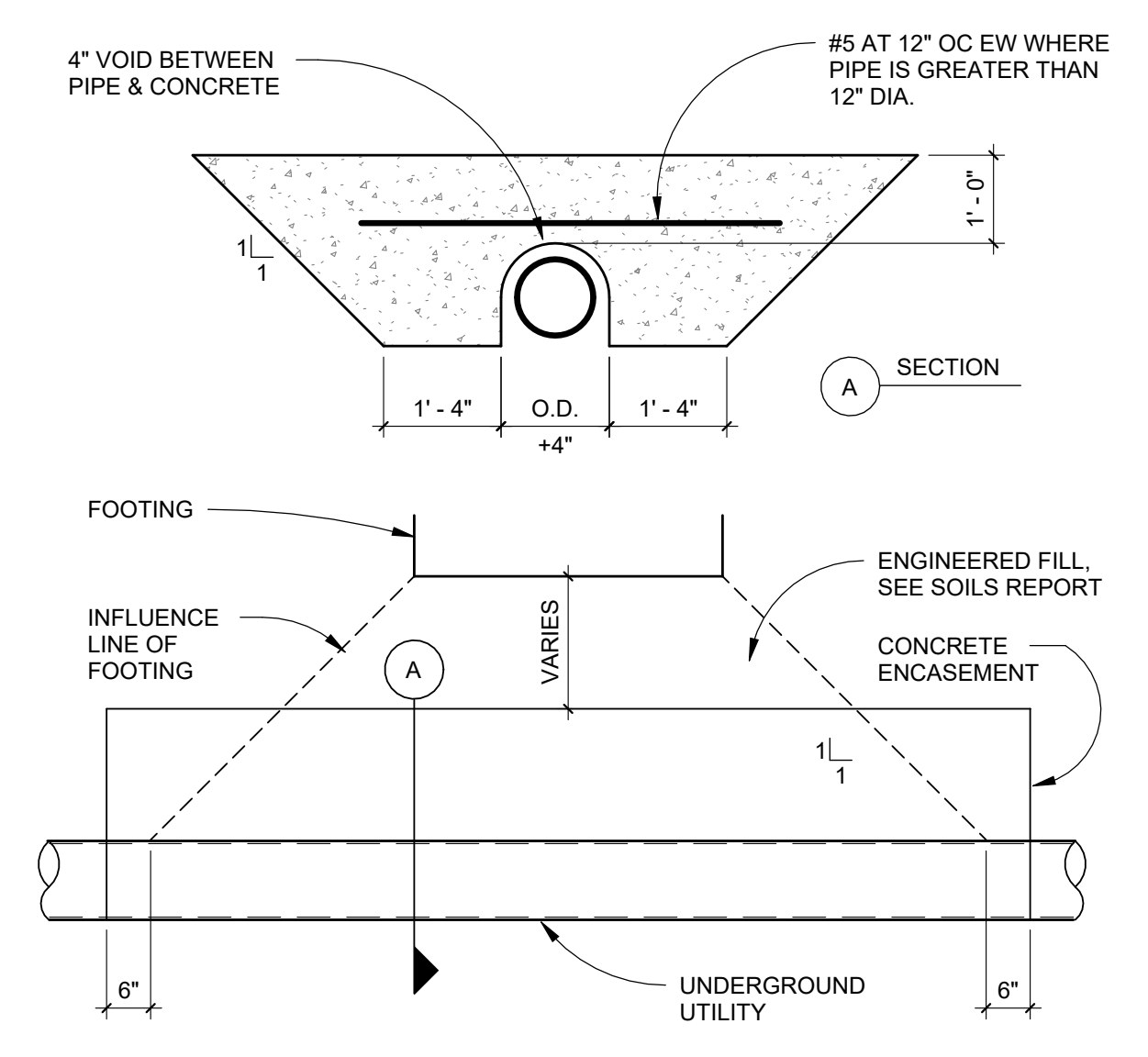
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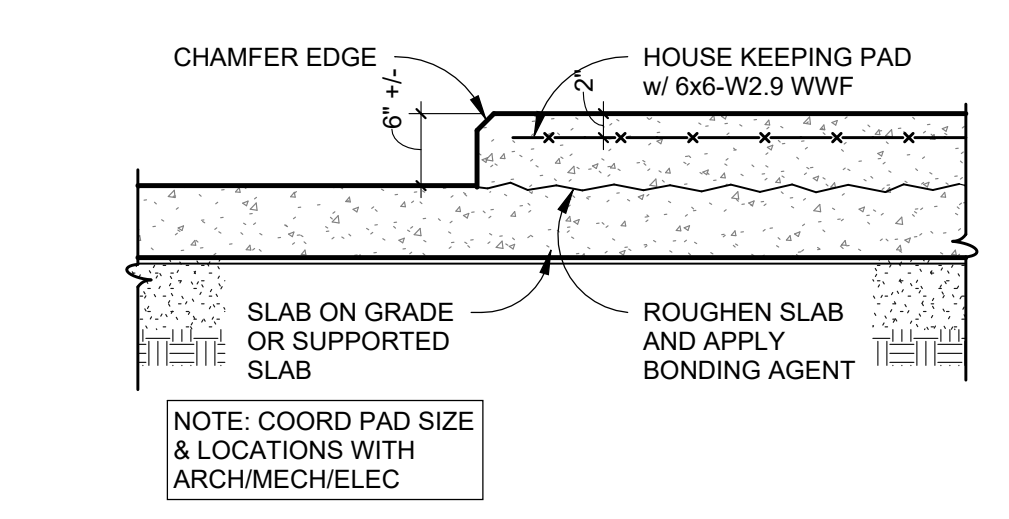
8 TYPICAL EXTERIOR GRADE WALL
S0.11 3/4" = 1'-0"



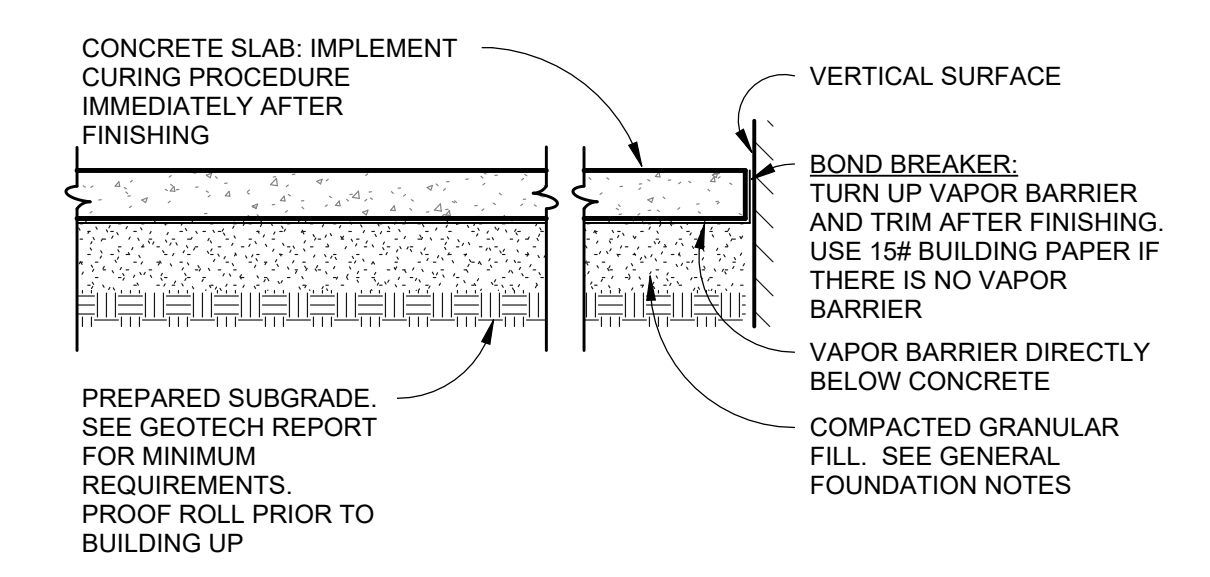
4 TYPICAL THRESHOLD DETAIL
S0.11 3/4" = 1'-0"



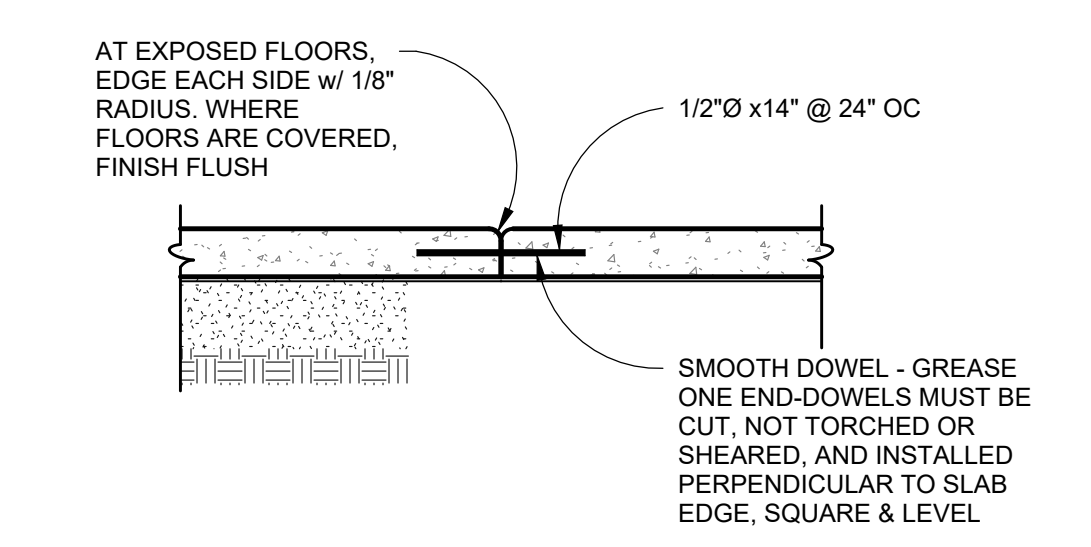
7 UNDERGROUND PIPING ENCASEMENT UNDER FTG
1/2" = 1'-0"



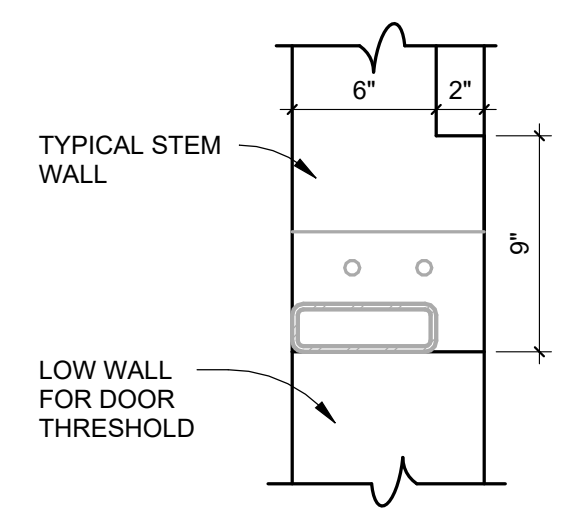
3 TYPICAL INTERIOR EQUIPMENT PAD
S0.11 3/4" = 1'-0"



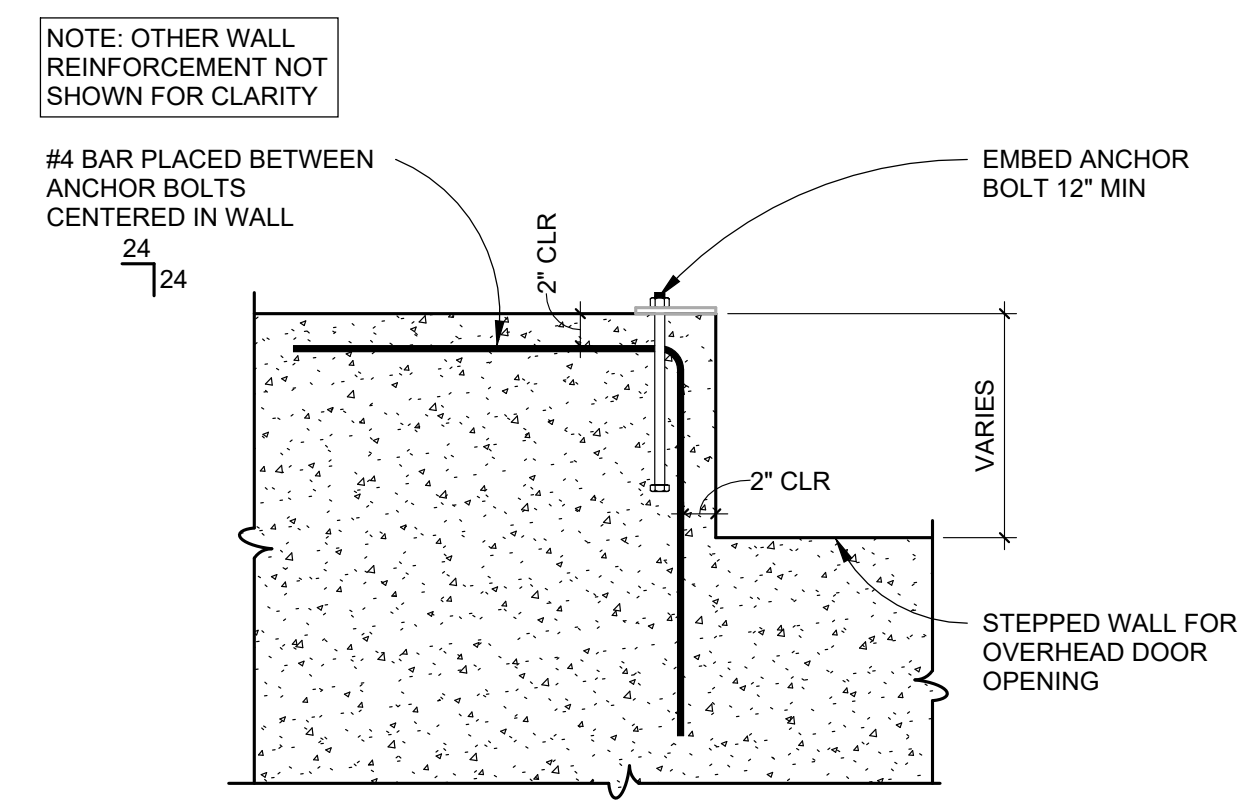
6 TYPICAL SLAB ON GRADE CONSTRUCTION
3/4" = 1'-0"



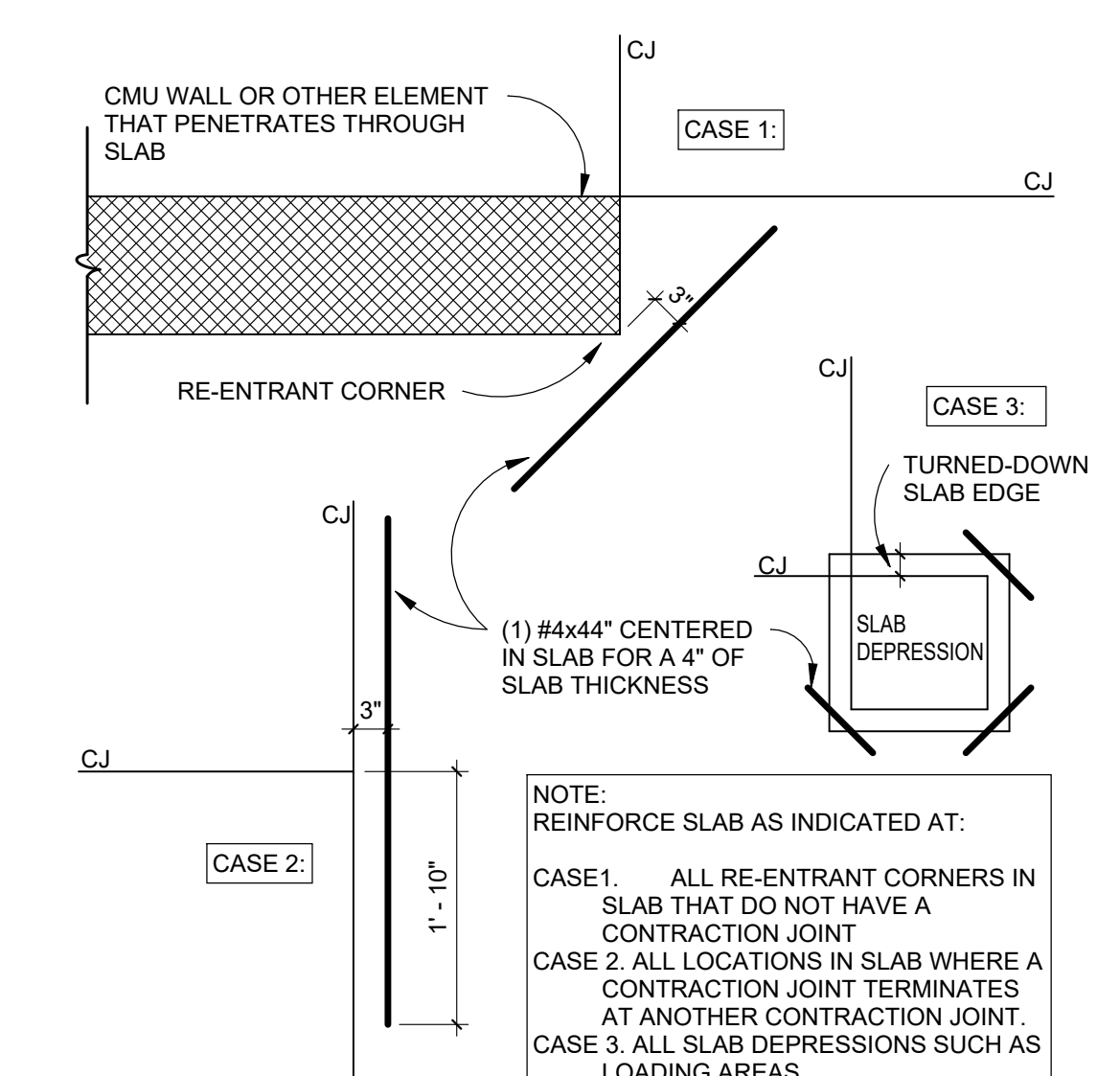
2 TYPICAL SLAB ON GRADE CONSTRUCTION JOINT
3/4" = 1'-0"



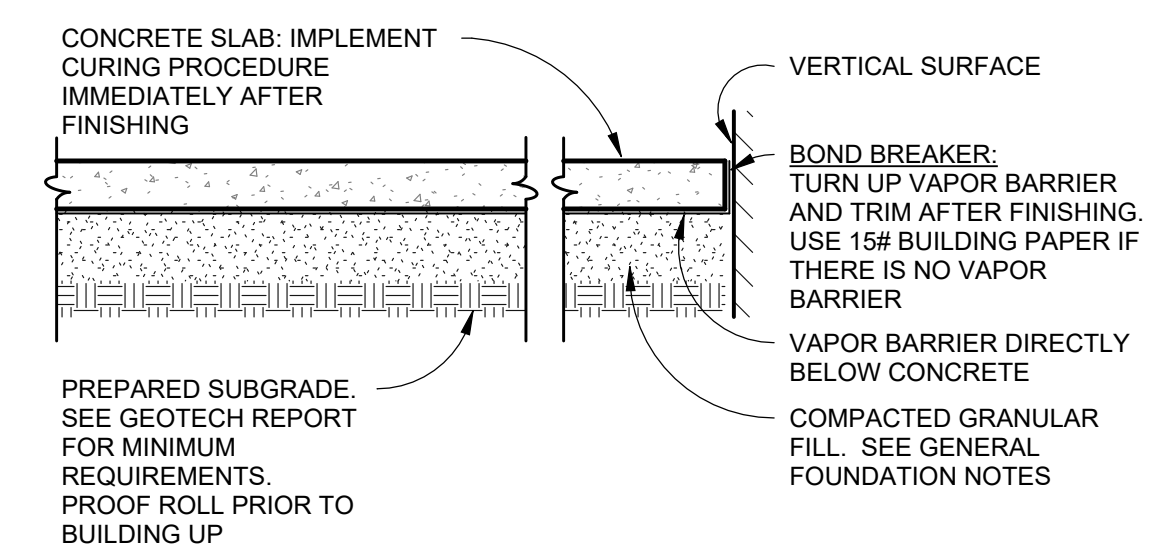
10 PIER AT FOUNDATION WALL OPENING AT OVERHEAD DOOR DETAIL
S0.11 1 1/2" = 1'-0"



9 FOUNDATION WALL AT OVERHEAD DOOR OPENING DETAIL
S0.11 1" = 1'-0"



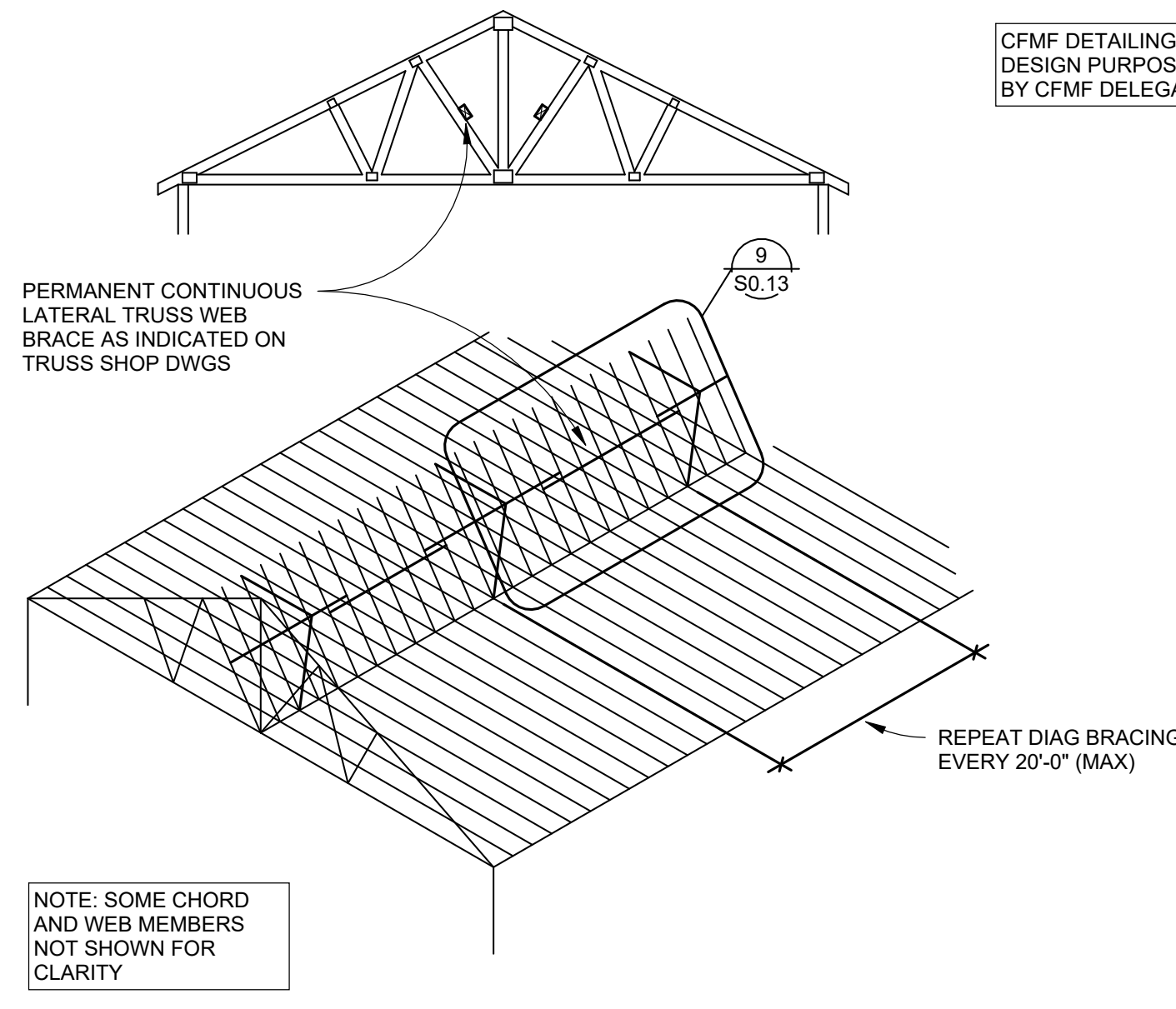
5 TYPICAL SLAB ON GRADE REINF DETAIL
3/4" = 1'-0"



1 TYPICAL SLAB ON GRADE CONSTRUCTION
3/4" = 1'-0"

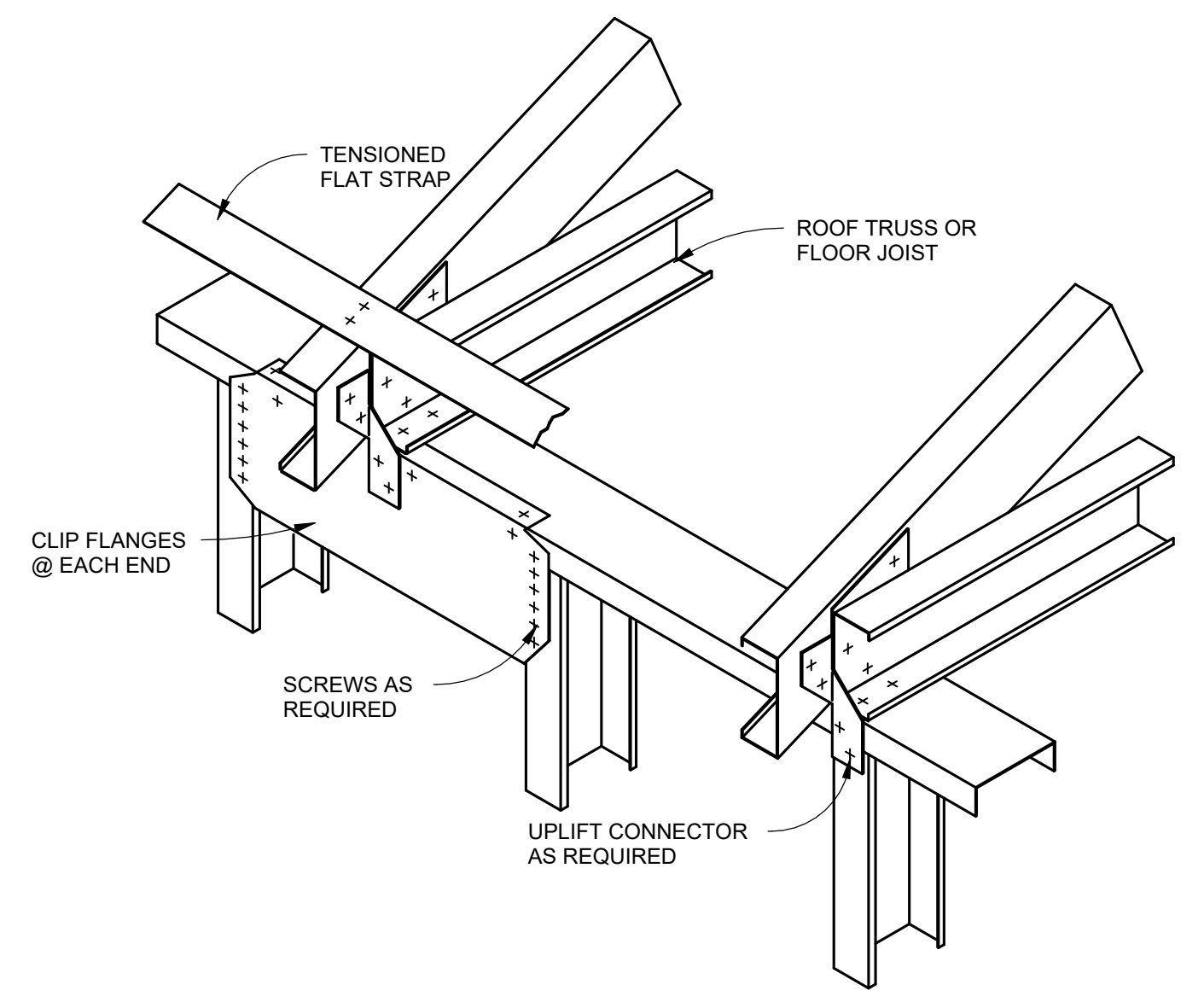
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11/13/2024 4:52:57 PM Autodesk Docs/1849241 - DML8-AVI - Submittal W/RSK/24/001_L1028_DML8-Submittal-W-AV-FSC-Struct Framing Details
ALL INFORMATION CONTAINED HEREIN IS THE PROPERTY OF PROGRESSIVE COMPANIES ENGINEERING & PLANNING, LLC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. ANY REUSE OR MODIFICATION OF THIS INFORMATION WITHOUT THE WRITTEN PERMISSION OF PROGRESSIVE COMPANIES ENGINEERING & PLANNING, LLC IS STRICTLY PROHIBITED. PROGRESSIVE COMPANIES ENGINEERING & PLANNING, LLC IS AN EQUAL OPPORTUNITY AFFIRMATIVE ACTION EMPLOYER. OTHER TRADE NAMES, INCLUDING THE COPYRIGHT SYMBOL, MAY BE USED WITHOUT NOTICE.

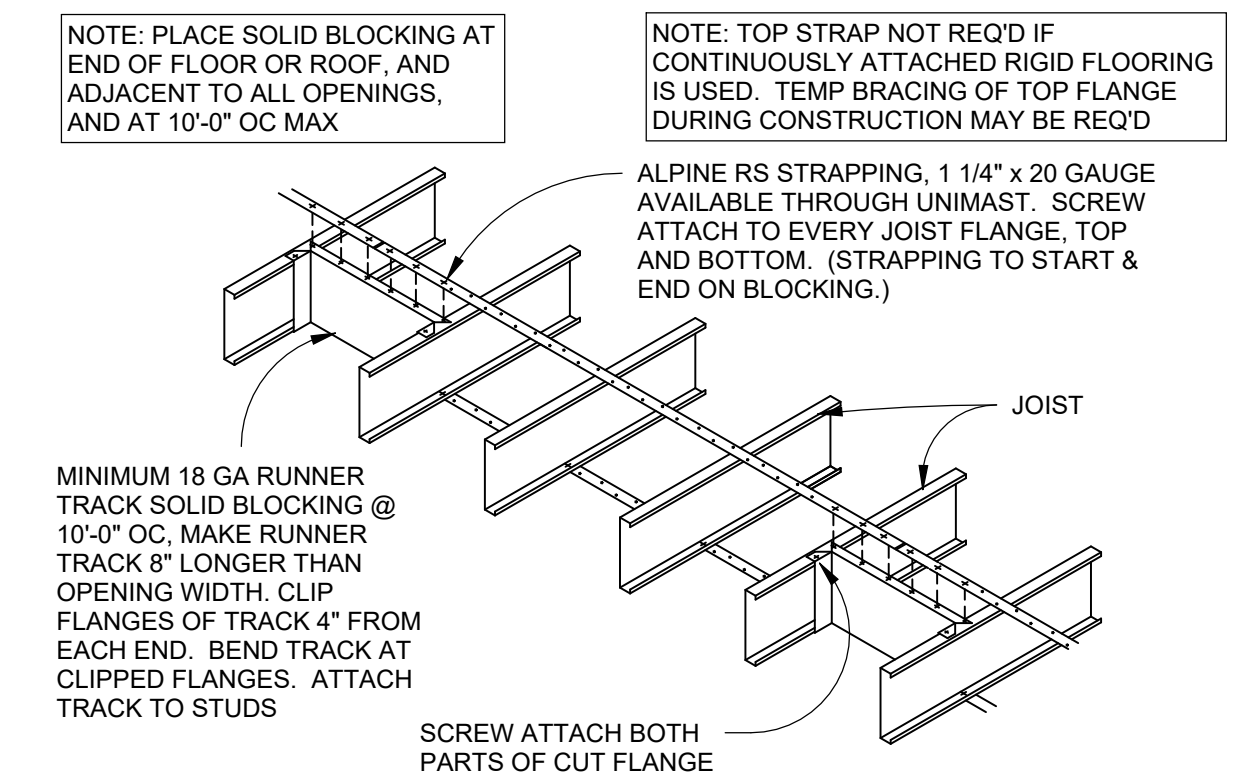


8 ISOMETRIC - PERMANENT CONTINUOUS LATERAL TRUSS WEB BRACING 1" = 1'-0"

CFMF DETAILING SHOWN ARE FOR ESTIMATION AND BASIS OF DESIGN PURPOSES ONLY. FINAL DETAILING SHALL BE PROVIDED BY CFMF DELEGATED DESIGNER.



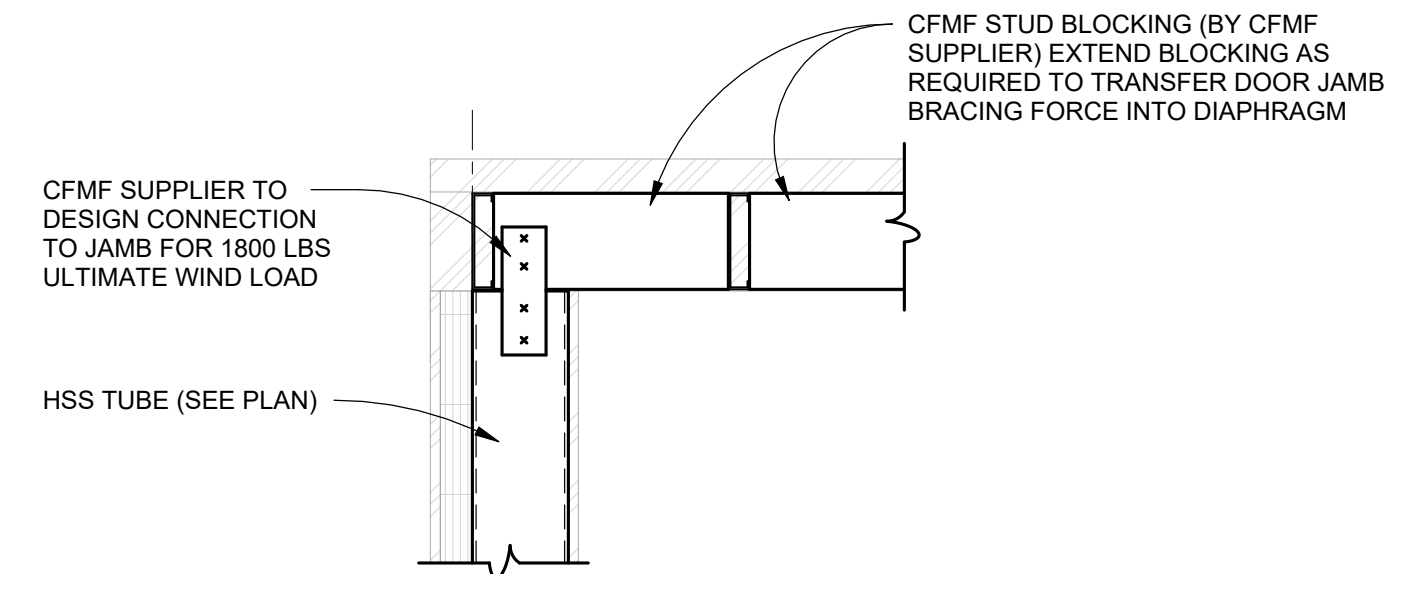
4 ISOMETRIC CFMF TRUSS BEARING DETAIL 1" = 1'-0"



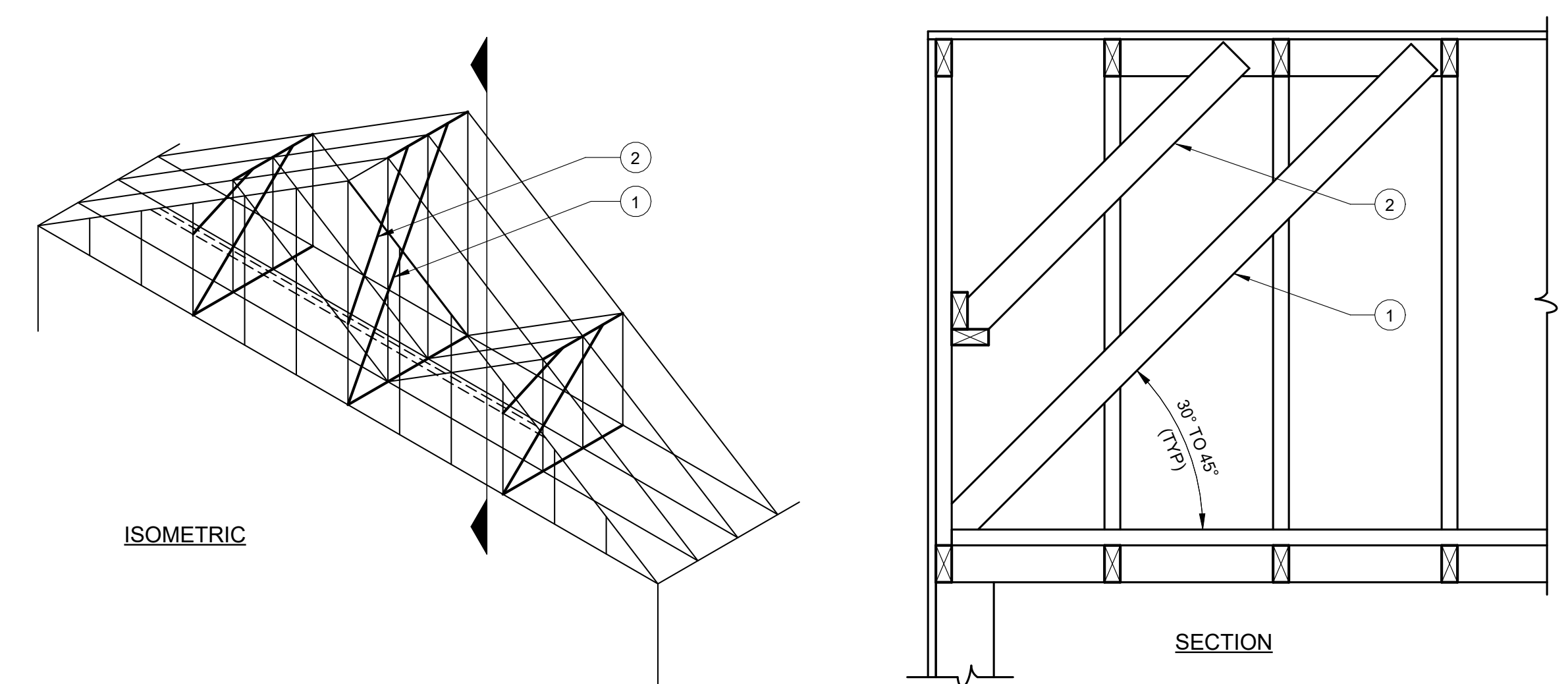
BRIDGING RECOMMENDATIONS

SPANS	ROWS REQUIRED
UP TO 14'	ONE ROW @ MID-SPAN
14' TO 20'	TWO ROWS @ THIRD POINTS
20' TO 26'	THREE ROWS @ QUARTER POINTS

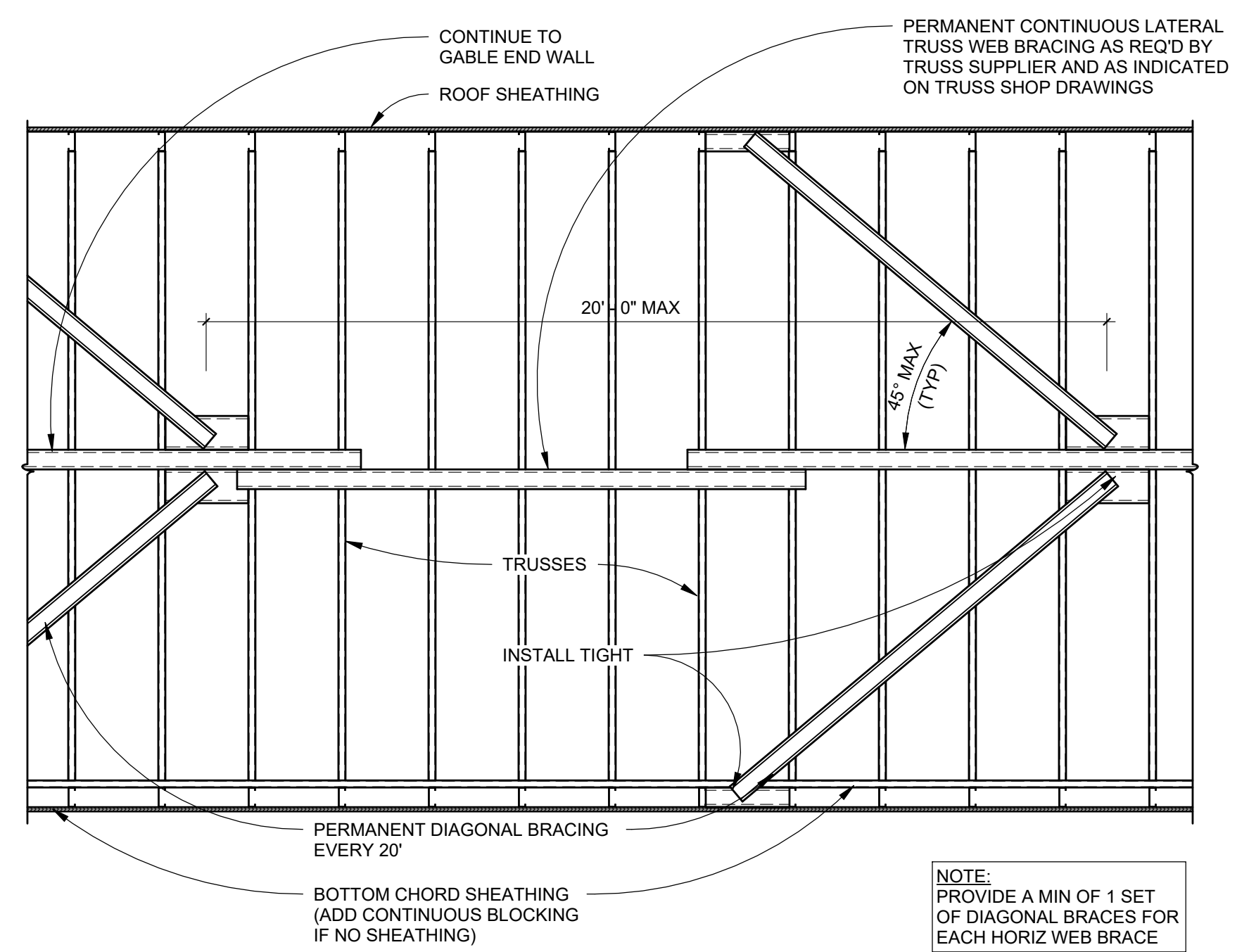
7 JOIST BRIDGING 3/4" = 1'-0"



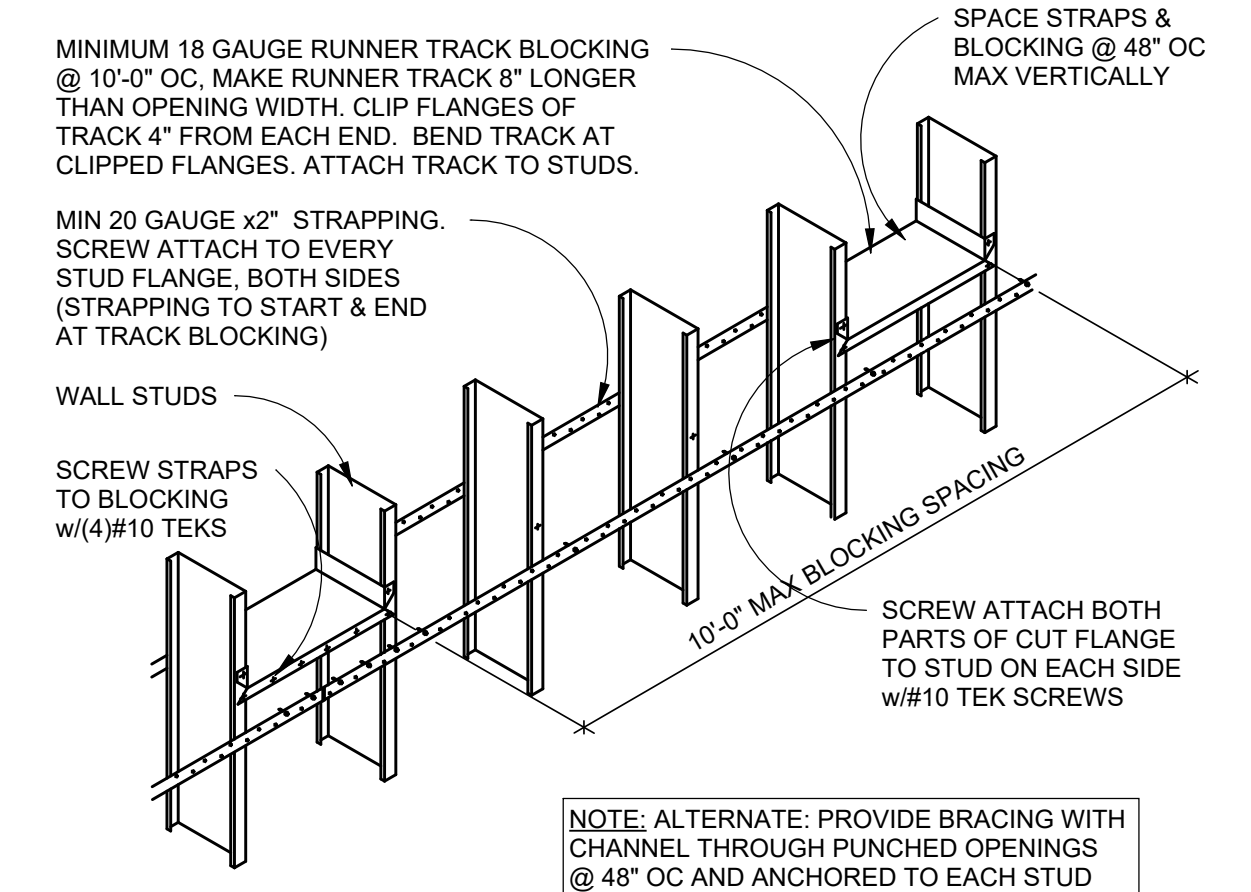
3 OVERHEAD DOOR DETAIL 50.11 1" = 1'-0"



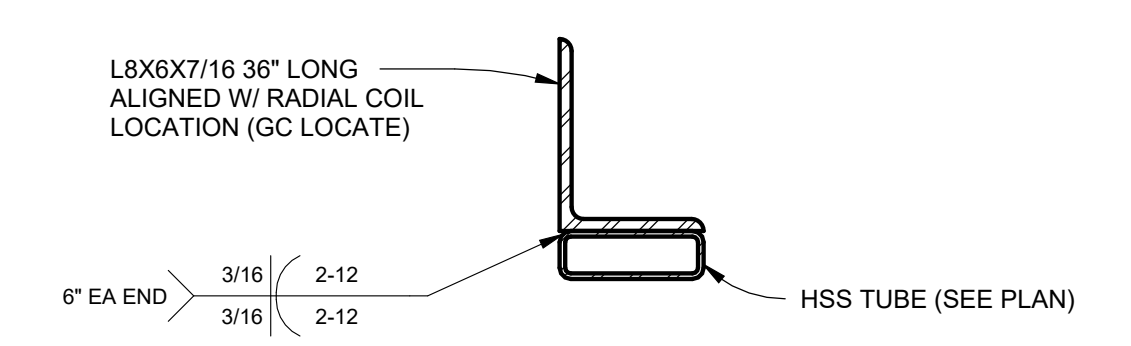
6 ISOMETRIC - TYPICAL GABLE END WALL BRACING 1" = 1'-0"



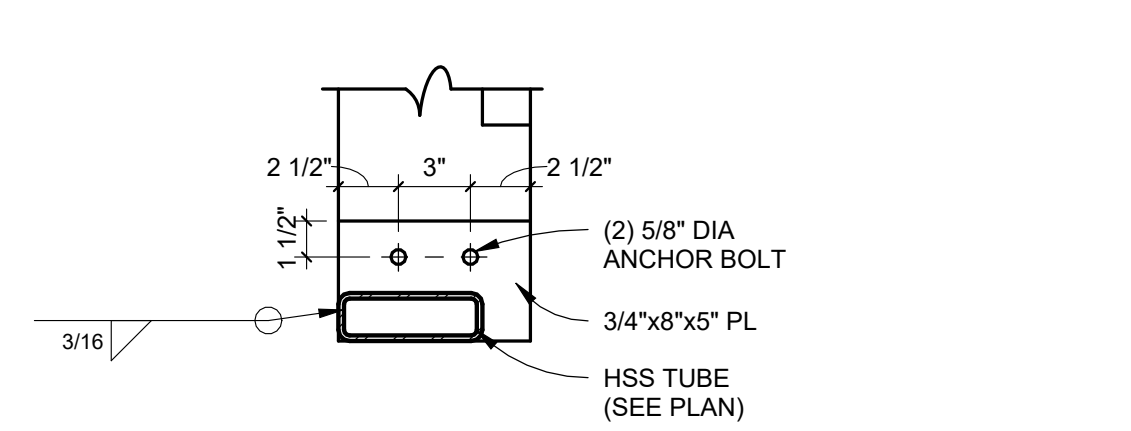
9 PERMANENT CONTINUOUS LATERAL TRUSS WEB BRACING DETAIL 1/2" = 1'-0"



5 BEARING WALL LATERAL BRACING DETAIL 3/4" = 1'-0"



2 OVERHEAD DOOR DETAIL 1 1/2" = 1'-0"



1 COLUMN BASE PLATE DETAIL 50.11 1 1/2" = 1'-0"

SECTION 051200 - STRUCTURAL STEEL FRAMING

PART 1 - GENERAL

A. SUMMARY

- 1. Structural steel.
- 2. Shear stud connectors.
- 3. Shrinkage-resistant grout.

B. DEFINITIONS

Structural Steel: Elements of the structural frame indicated on Drawings and as described in ANSI/AISC 303.

C. ACTION SUBMITTALS

1. Product Data:

- 1. Structural-steel materials.
- 2. High-strength, bolt-nut-washer assemblies.
- 3. Shear stud connectors.
- 4. Anchor rods.
- 5. Threaded rods.
- 6. Forged-steel hardware.
- 7. Galvanized-steel primer.
- 8. Galvanized repair paint.
- 9. Shrinkage-resistant grout.

Shop Drawings: Show fabrication of structural-steel components.

Delegated-Design Submittal: For structural-steel connections indicated on Drawings to comply with design loads, include analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

D. INFORMATIONAL SUBMITTALS

- 1. Mill test reports for structural-steel materials, including chemical and physical properties.
- 2. Field quality-control reports.

E. QUALITY ASSURANCE

Fabricator Qualifications: A qualified fabricator that participates in the AISC Quality Certification Program and is designated an AISC-Certified Plant, Category BU or is accredited by the IAS Fabricator Inspection Program for Structural Steel (Acceptance Criteria 172).

Welding Qualifications: Qualify procedures and personnel in accordance with AWS D1.1/D1.1M.

PART 2 - PRODUCTS

A. PERFORMANCE REQUIREMENTS

Comply with applicable provisions of the following specifications and documents:

- 1. ANSI/AISC 303.
- 2. ANSI/AISC 360.
- 3. RCSC's "Specification for Structural Joints Using High-Strength Bolts."

Connection Design Information:

1. Fabricator's experienced steel detailer shall select or complete connections in accordance with ANSI/AISC 303.

A. Select and complete connections using schematic details indicated and ANSI/AISC 360.

B. Use Allowable Stress Design; data are given at service-load level.

Option 3 and 3A: Design connections in accordance with ANSI/AISC 303 by fabricator's qualified professional engineer. Member reinforcement at connections is indicated on Drawings.

A. Use Allowable Stress Design; data are given at service-load level.

3. Construction: [Moment frame] [Braced frame] [Shear wall system] [Combined system of moment frame and braced frame] [Combined system of moment frame and shear walls] [Combined system of braced frame and shear walls] [Combined system of moment frame, braced frame, and shear walls].

B. STRUCTURAL-STEEL MATERIALS

W-Shapes: ASTM A992/A992M.

Channels, Angles: ASTM A36/A36M.

Plate and Bar: ASTM A572/A570M.

Cold-Formed Hollow Structural Sections: ASTM A500/A500M, Grade B structural tubing.

Steel Pipe: ASTM A53/A53M, Type E or Type S, Grade B.

Welding Electrodes: Comply with AWS requirements.

C. BOLTS AND CONNECTORS

High-Strength A325 Bolts, Nuts, and Washers: ASTM F125F/F3125M, Grade A325, Type 1, heavy-hex steel structural bolts; ASTM A563, Grade DH, heavy-hex carbon-steel nuts; and ASTM F436/F436M, Type 1, hardened carbon-steel washers; all with plain finish.

High-Strength A490 Bolts, Nuts, and Washers: ASTM F3125F/F3125M, Grade A490, Type 1, heavy-hex steel structural bolts or Grade F2280 tension-control, bolt-nut-washer assemblies with splined ends; ASTM A563, Grade DH, heavy-hex carbon-steel nuts; and ASTM F436/F436M, Type 1, hardened carbon-steel washers; all with plain finish.

Zinc-Coated High-Strength A325 Bolts, Nuts, and Washers: ASTM F3125F/F3125M, Grade A325, Type 1, heavy-hex steel structural bolts; ASTM A563, Grade DH, heavy-hex carbon-steel nuts; and ASTM F436/F436M, Type 1, hardened carbon-steel washers.

1. Finish: Hot-dip or mechanically deposited zinc coating.

Tension-Control, High-Strength Bolt-Nut-Washer Assemblies: ASTM F125F/F3125M, Grade F1552, Type 1, heavy-hex or round head assemblies, consisting of steel structural bolts with splined ends, ASTM A563, Grade DH, heavy-hex carbon-steel nuts; and ASTM F436/F436M, Type 1, hardened carbon-steel washers.

Shear Stud Connectors: ASTM A108, AISI C-1015 through C-1020, headed-stud type, cold-finished carbon steel; AWS D1.1/D1.1M, Type B.

D. RODS

Unheaded Anchor Rods: ASTM F1554, Grade 36J.

Headed Anchor Rods: ASTM F1554, Grade 55, weldable, straight.

Threaded Rods: ASTM A36/A36M.

E. FORGED-STEEL STRUCTURAL HARDWARE

Clevises and Turnbuckles: Made from cold-finished carbon-steel bars, ASTM A108, AISI C-1035.

F. PRIMER

Steel Primer:

1. Fabricator's standard lead- and chromate-free, nonasphaltic, rust-inhibiting primer complying with MPI#79 and compatible with topcoat.

G. SHRINKAGE-RESISTANT GROUT

Metallic, Shrinkage-Resistant Grout: ASTM C1107/C1107M, factory-packaged, metallic aggregate grout, mixed with water to consistency suitable for application and a 30-minute working time.

Nonmetallic, Shrinkage-Resistant Grout: ASTM C1107/C1107M, factory-packaged, nonmetallic aggregate grout, noncorrosive and nonstaining, mixed with water to consistency suitable for application and a 30-minute working time.

H. FABRICATION

Structural Steel: Fabricate and assemble in shop to greatest extent possible. Fabricate in accordance with ANSI/AISC 303 and to ANSI/AISC 360.

Shear Stud Connectors: Prepare steel surfaces as recommended by manufacturer of shear connectors. Weld using automatic end welding of headed-stud shear connectors in accordance with AWS D1.1/D1.1M and manufacturer's written instructions.

I. SHOP CONNECTIONS

High-Strength Bolts: Shop install high-strength bolts in accordance with RCSC's "Specification for Structural Joints Using High-Strength Bolts" for type of bolt and type of joint specified.

1. Joint Type: Snug tightened.

Weld Connections: Comply with AWS D1.1/D1.1M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting welding work.

J. GALVANIZING

Hot-Dip Galvanized Finish: Apply zinc coating by the hot-dip process to structural steel in accordance with ASTM A123/A123M.

1. Fill vent and drain holes that are exposed in the finished Work unless they function as weep holes, by plugging with zinc solder and filing off smooth.

K. SHOP PRIMING

Shop prime steel surfaces, except the following:

1. Surfaces embedded in concrete or mortar. Extend priming of partially embedded members to a depth of 2 inches.

2. Surfaces to be field welded.

3. Surfaces of high-strength bolted, slip-critical connections.

4. Surfaces to receive sprayed fire-resistive materials (applied fireproofing).

5. Galvanized surfaces.

6. Surfaces enclosed in interior construction.

Surface Preparation of Steel: Clean surfaces to be painted. Remove loose rust and mill scale and spatter, slag, or flux deposits. Prepare surfaces in accordance with the following specifications and standards:

1. SSPC-SP 3.

Surface Preparation of Galvanized Steel: Prepare galvanized-steel surfaces for shop priming by thoroughly cleaning steel of grease, dirt, oil, flux, and other foreign matter, and treating with etching cleaner or in accordance with SSPC-SP 16.

Priming: Immediately after surface preparation, apply primer in accordance with manufacturer's written instructions and at rate recommended by SSPC to provide a minimum dry film thickness of 1.5 mils. Use priming methods that result in full coverage of joints, corners, edges, and exposed surfaces.

L. SOURCE QUALITY CONTROL

If one of the two conditions below is followed then source quality control need not be required:

1. The fabricator is AISC certified and provides documentation they are approved to perform such work without special inspection, and at the completion of fabrication the approved fabricator shall submit a certificate of compliance to the building official stating that the work was performed in accordance with the approved construction documents.

2. The fabrication process does not require any welding, thermal cutting, heating operations of any kind. In such cases the fabricator shall submit a detailed procedure for material control that demonstrates the fabricator's ability to maintain suitable records and procedures such that, at any time during the fabrication process, the material

Testing Agency: Engage a qualified testing agency to perform shop tests and inspections.

1. Allow testing agency access to places where structural-steel work is being fabricated or produced to perform tests and inspections.

PART 3 - EXECUTION

A. EXAMINATION

Verify, with certified steel erector present, elevations of concrete- and masonry-bearing surfaces and locations of anchor rods, bearing plates, and other embedments for compliance with requirements.

Proceed with installation only after unsatisfactory conditions have been corrected.

B. ERECTION

Set structural steel accurately in locations and to elevations indicated and in accordance with ANSI/AISC 303 and ANSI/AISC 360.

Baseplates, Bearing Plates and Leveling Plates: Clean concrete- and masonry-bearing surfaces of bond-reducing materials, and roughen surfaces prior to setting plates. Clean bottom surfaces of plates.

1. Set plates for structural members on wedges, shims, or setting nuts as required.

2. Weld plate washers to top of baseplate.

3. Snug-tighten anchor rods after supported members have been positioned and plumbed. Do not remove wedges or shims but, if protruding, cut off flush with edge of plate before packing with grout.

Promptly pack shrinkage-resistant grout solidly between bearing surfaces and plates, so no voids remain. Neatly finish exposed surfaces; protect grout and allow to cure. Comply with manufacturer's written installation instructions for grouting.

4. Maintain erection tolerances of structural steel within ANSI/AISC 303.

C. FIELD CONNECTIONS

High-Strength Bolts: Install high-strength bolts in accordance with RCSC's "Specification for Structural Joints Using High-Strength Bolts" for bolt and snug-tighten.

Weld Connections: Comply with AWS D1.1/D1.1M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting welding work.

1. Comply with ANSI/AISC 303 and ANSI/AISC 360 for bearing, alignment, adequacy of temporary connections, and removal of paint on surfaces adjacent to field welds.

D. FIELD QUALITY CONTROL

Special Inspections: Owner will engage a special inspector to perform special inspections as noted in the plans.

E. REPAIRS AND PROTECTION

All modifications or changes to structural steel framing and connections must be submitted to the architect for approval.

Galvanized Surfaces: Clean areas where galvanizing is damaged or missing and repair galvanizing to comply with ASTM A 780.

Touchup Painting: Immediately after erection, clean exposed areas where primer is damaged or missing and paint with the same material as used for shop painting to comply with SSPC-PA 1 for touchup on shop-painted surfaces.

1. Clean and prepare surfaces by SSPC-SP 2 hand-tool cleaning or SSPC-SP 3 power-tool cleaning.

END OF SECTION 051200

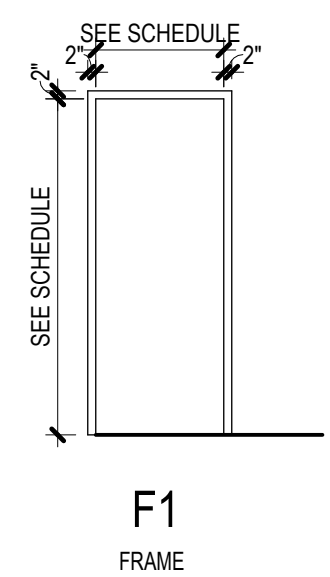


DOOR SCHEDULE - OVERHEAD DOORS (AVI)

MARK	ROOM NAME	OPENING WIDTH	OPENING HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	HARDWARE SET	RATING	DETAILS HEAD	JAMB	COMMENTS
A101A	AVI TUNNEL	3'-0"	7'-0"	B	HM	PT-11	F1	HM	P-1	S-05				5
A102	IDF CAGE	3'-4"	6'-10"	CL1	STL	GALV	CLF1	STL	GALV	TI-26A				11
A101B	AVI TUNNEL	12'-0"	12'-0"	G2/G3	STL/FABRIC	PRE-FIN	PER MFR	STL	PRE-FIN	-				5
A101C	AVI TUNNEL	12'-0"	12'-0"	G2/G3	STL/FABRIC	PRE-FIN	PER MFR	STL	PRE-FIN	-				5

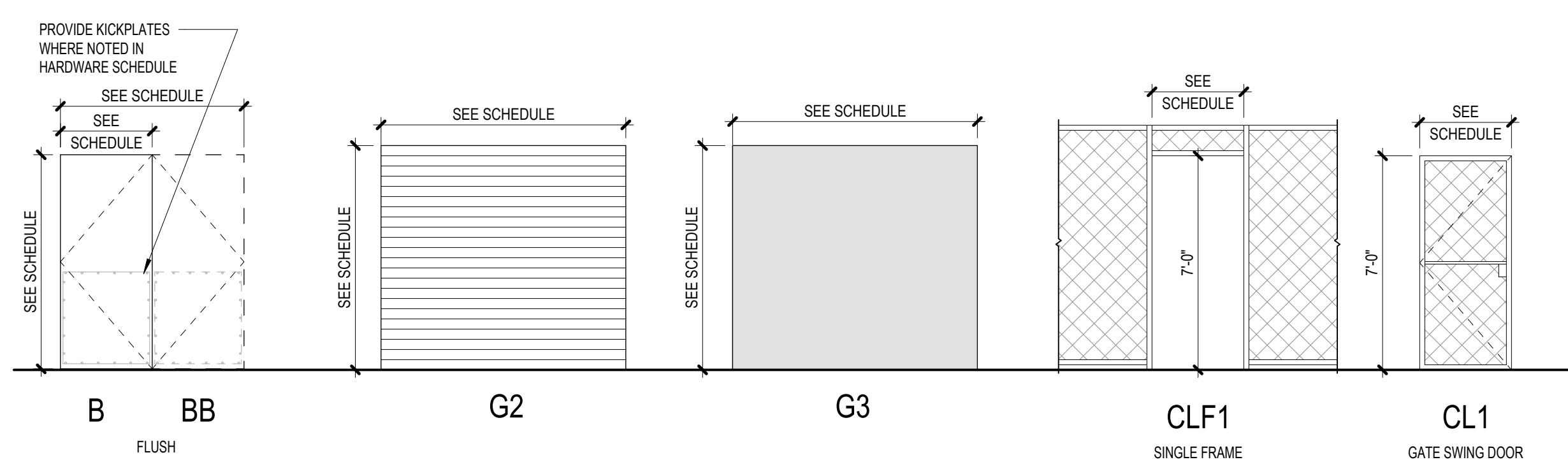
- COMMENTS:**
1. ADD SURFACE APPLIED DOOR SWEEP AND WEATHER STRIPPING TO IMPROVE ACOUSTIC PERFORMANCE
 2. ADD ACCESS CONTROL HARDWARE TO SET.
 3. UNDERCUT DOOR 1"
 4. ADD CLOSER AND CARD READER ON THE SAME SIDE OF BOTH LEAVES. ADD HOLD OPEN OPTION AND LOCKING MECHANISM FOR BOTH LEAVES.
 5. ADD REX EQUIPMENT - CARD IN, REX OUT.
 6. ONE CARD READER
 7. (2) CARD READERS
 8. ADD HOLD-OPEN OPTION AND LOCKING MECHANISM FOR TOP AND BOTTOM PORTIONS
 9. SLIDING CHAINLINK DOOR, PER MANUFACTURER. PREPARE DOOR FOR TENANT PROVIDED PADLOCK
 10. ADD FILM ON VISION PANEL - "FROSTED", BASIS OF DESIGN: 3M, 7725-314 DUSTED CRYSTAL
 11. ADD PRIVACY LOCKSET
 12. CHAIN LINK GATE

FRAME TYPES

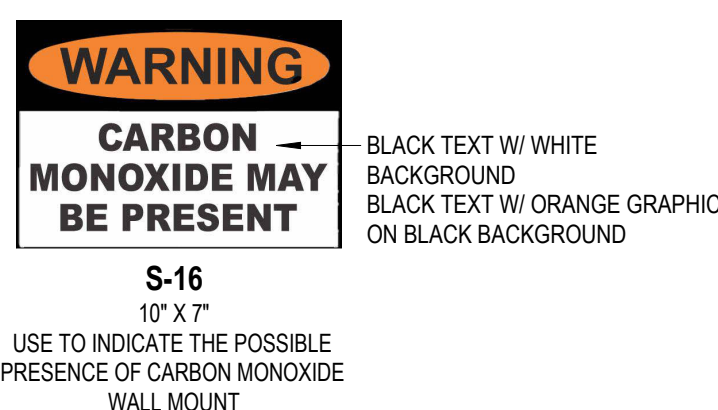
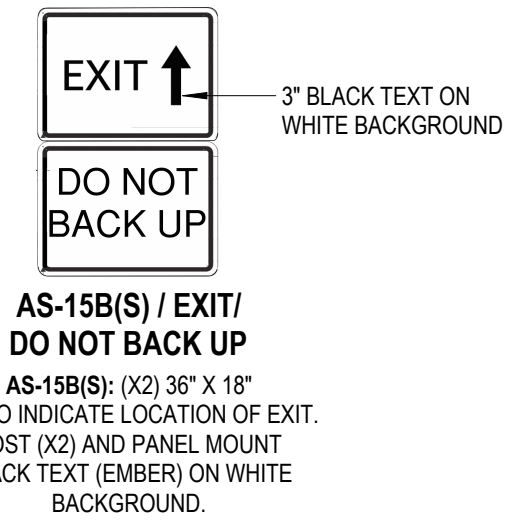
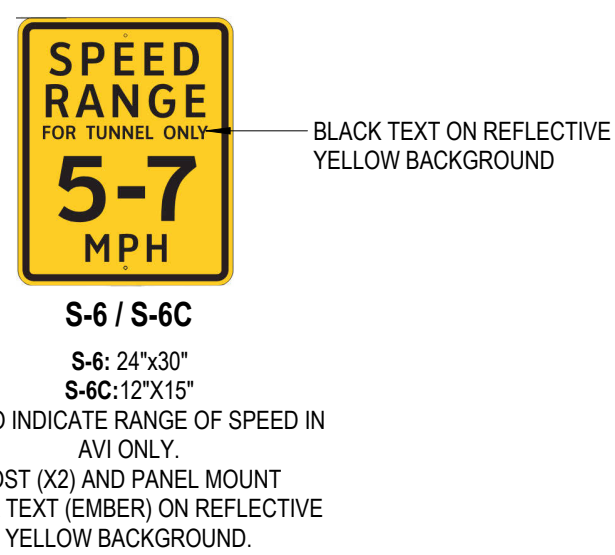
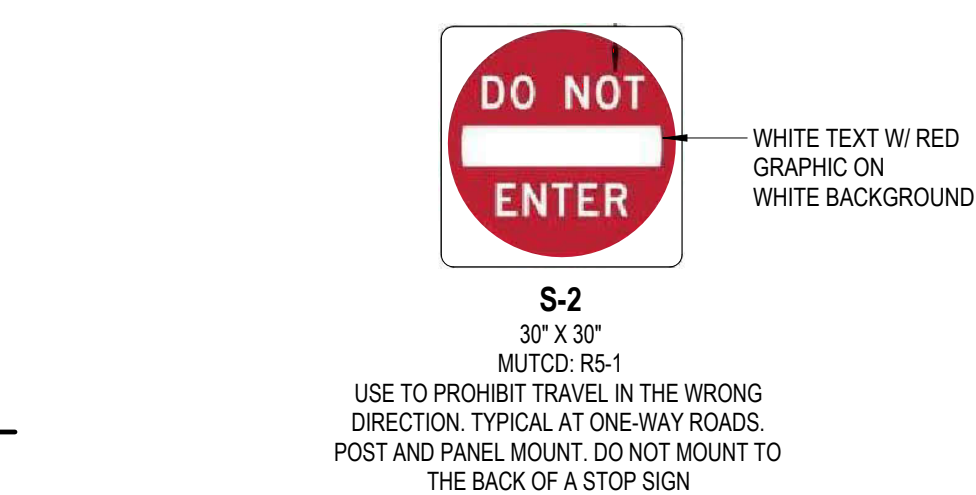


F1
FRAME

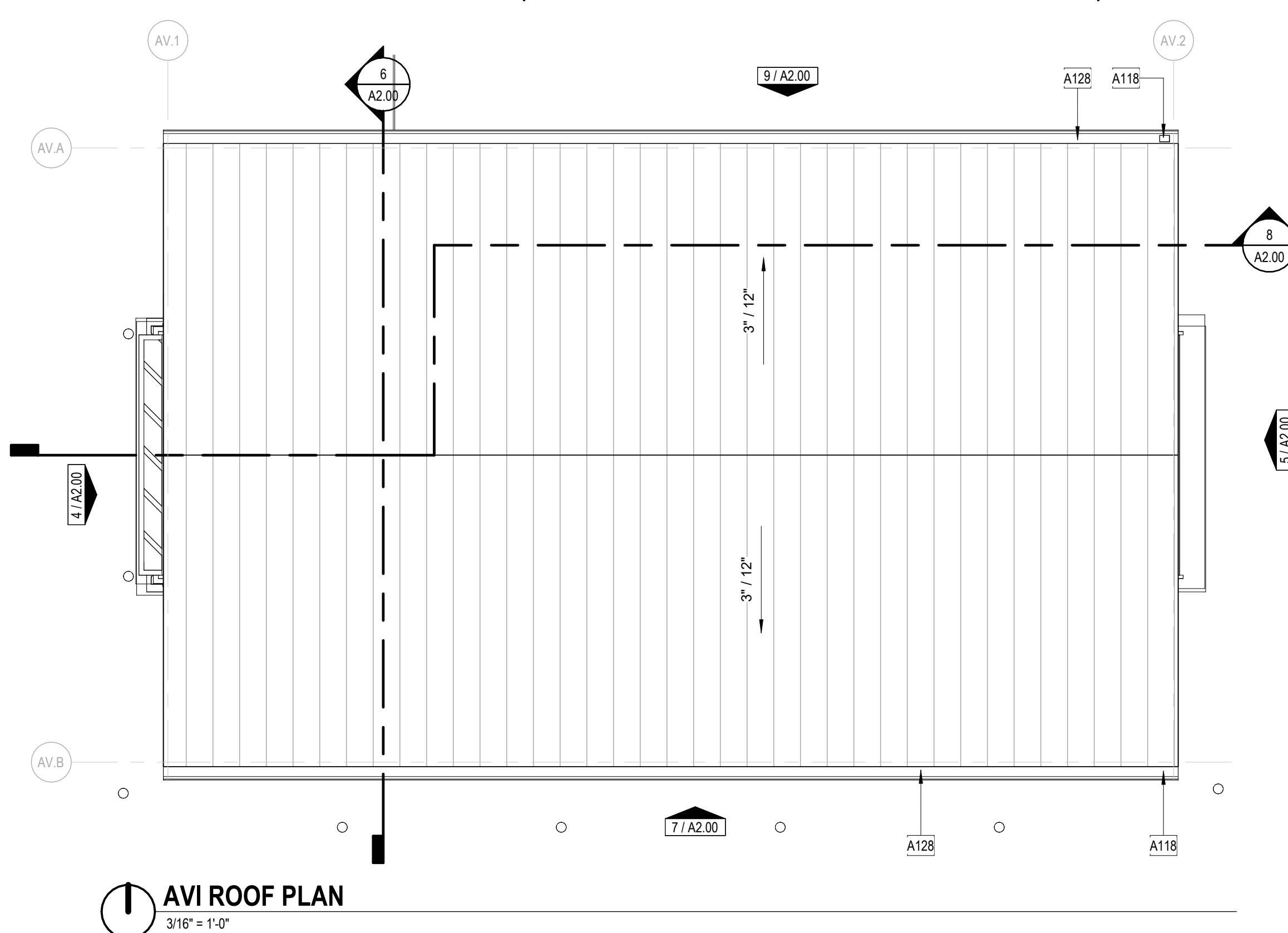
DOOR TYPES



NOTE: DOORS SHOWN AS A SCHEMATIC GRAPHIC REPRESENTATION TO PORTRAY DOOR STYLE AND TYPE

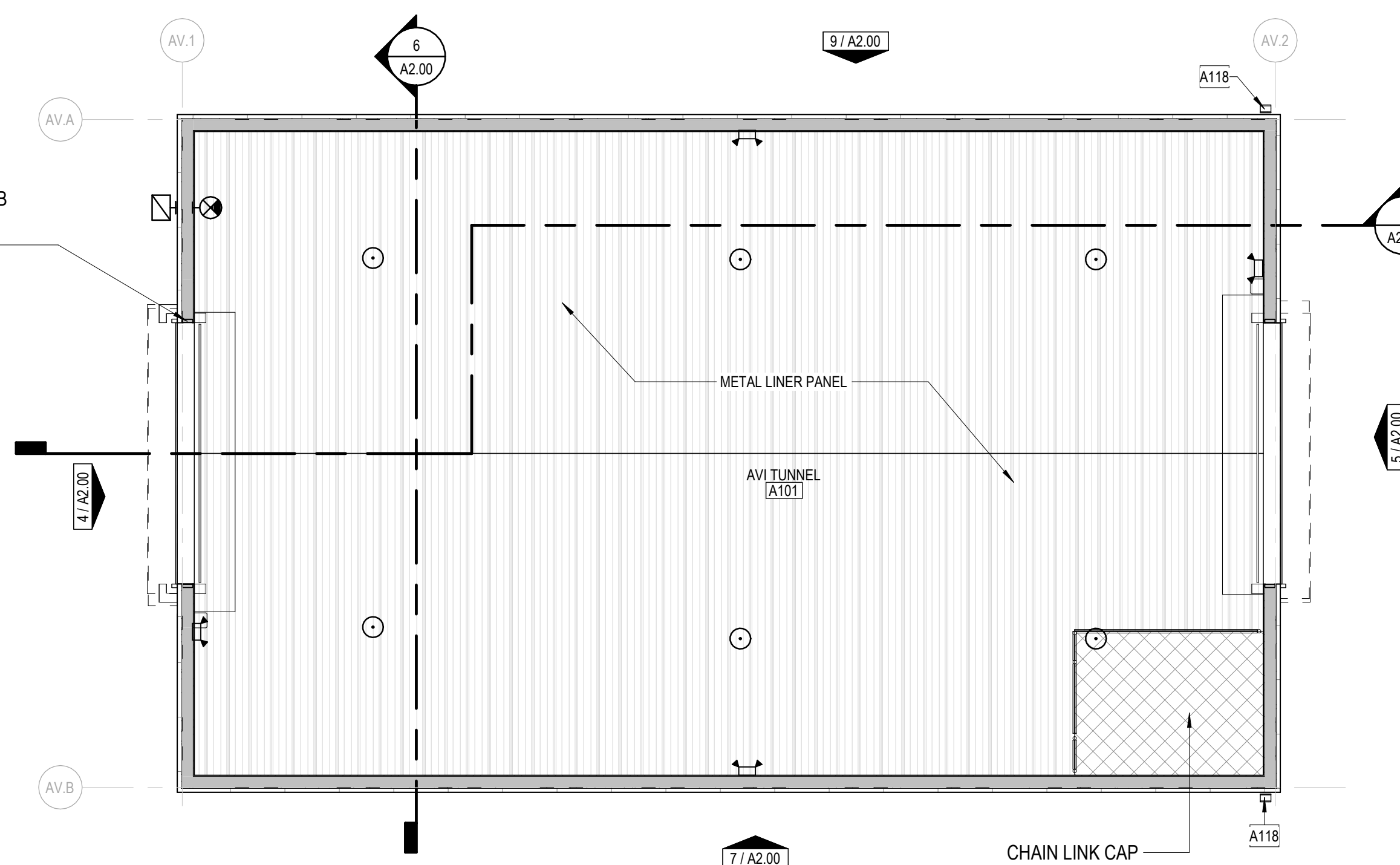


4 AVI SIGNAGE
1 1/2" = 1'-0"

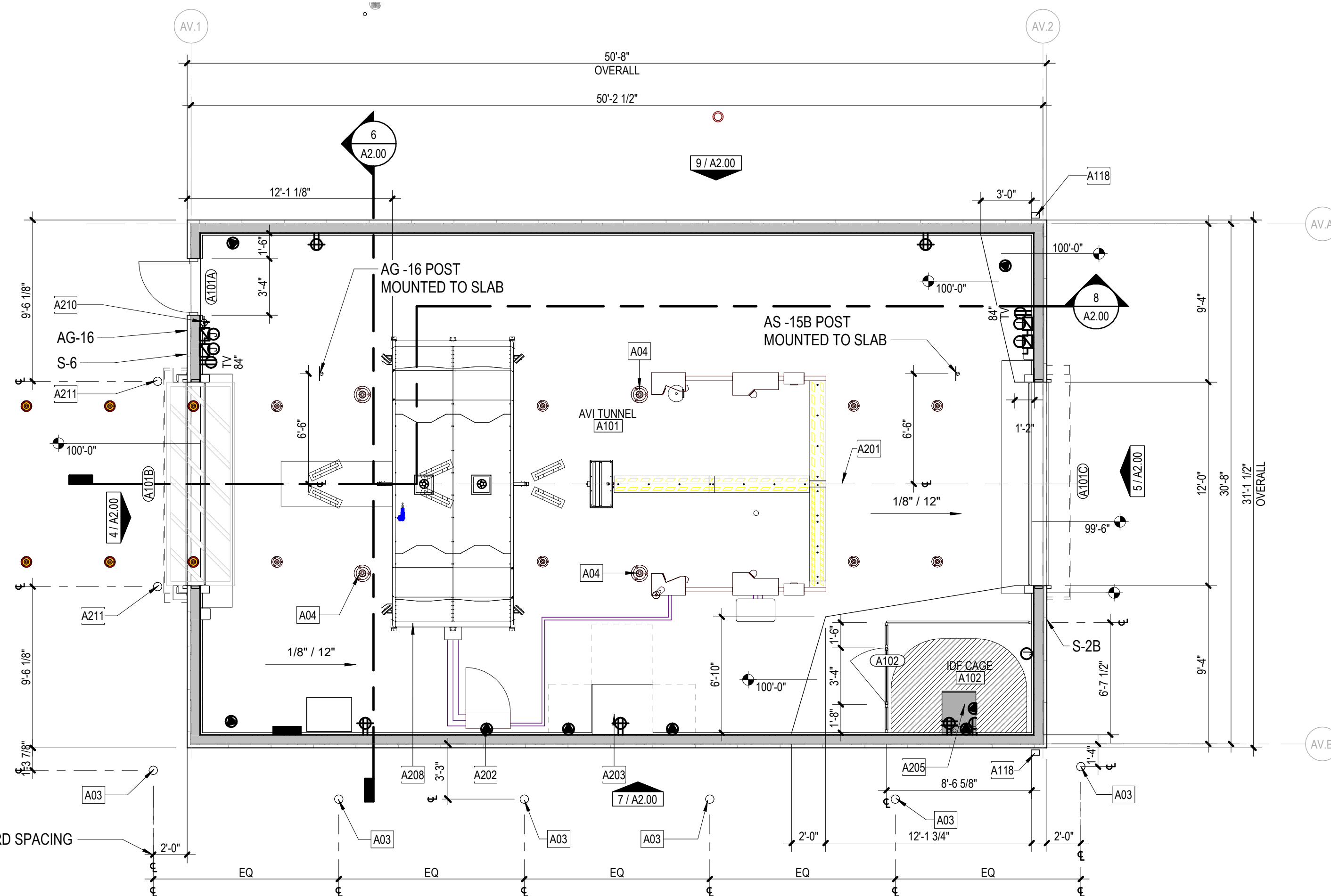


AVI ROOF PLAN
3/16" = 1'-0"

SEE STRUCTURAL AND OH DOOR SUPPLIER FOR JAMB STEEL AND RADIAL DOOR FRAME ATTACHMENT



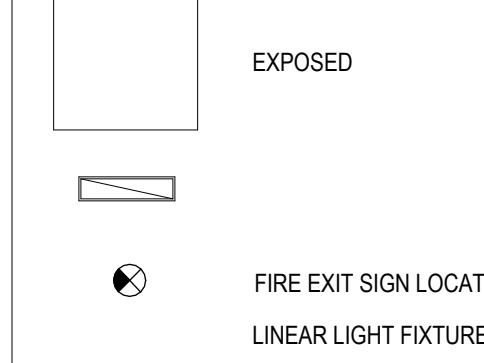
AVI TUNNEL REFLECTED CEILING PLAN
3/16" = 1'-0"



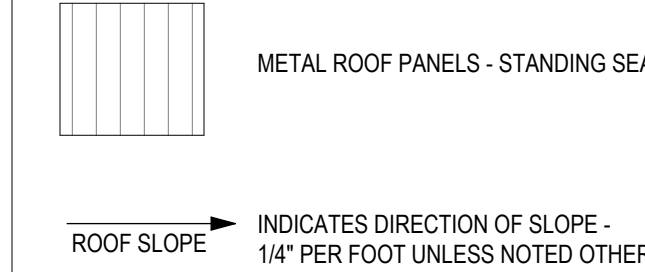
AVI TUNNEL FLOOR PLAN
3/16" = 1'-0"

REFLECTED CEILING PLAN LEGEND

1. CEILING HEIGHTS INDICATED ARE DIMENSIONED FROM THE FINISHED FLOOR BELOW.
2. ALL LIGHT FIXTURES, SPRINKLER HEADS, RETURN AIR GRILLES AND SUPPLY AIR GRILLES ARE TO BE LOCATED IN THE CENTER OF THE CEILING PAD, UNLESS NOTED OTHERWISE.
3. COORDINATE MECHANICAL, ELECTRICAL AND FIRE PROTECTION TO ASSURE PROPER CLEARANCES AND LAYOUT.
4. MECHANICAL, ELECTRICAL AND FIRE PROTECTION CONTRACTORS TO PROVIDE ACCESS PANELS IN CEILINGS AS REQUIRED FOR MAINTENANCE OF EQUIPMENT. COORDINATE SIZE AND LOCATIONS OF ACCESS PANELS TO MINIMIZE QUANTITIES. CONTRACTOR IS REQUIRED TO PROVIDE LAYOUT TO ARCHITECT FOR REVIEW PRIOR TO INSTALLATION, UNLESS NOTED OTHERWISE.



ROOF LEGEND



DOOR GENERAL NOTES

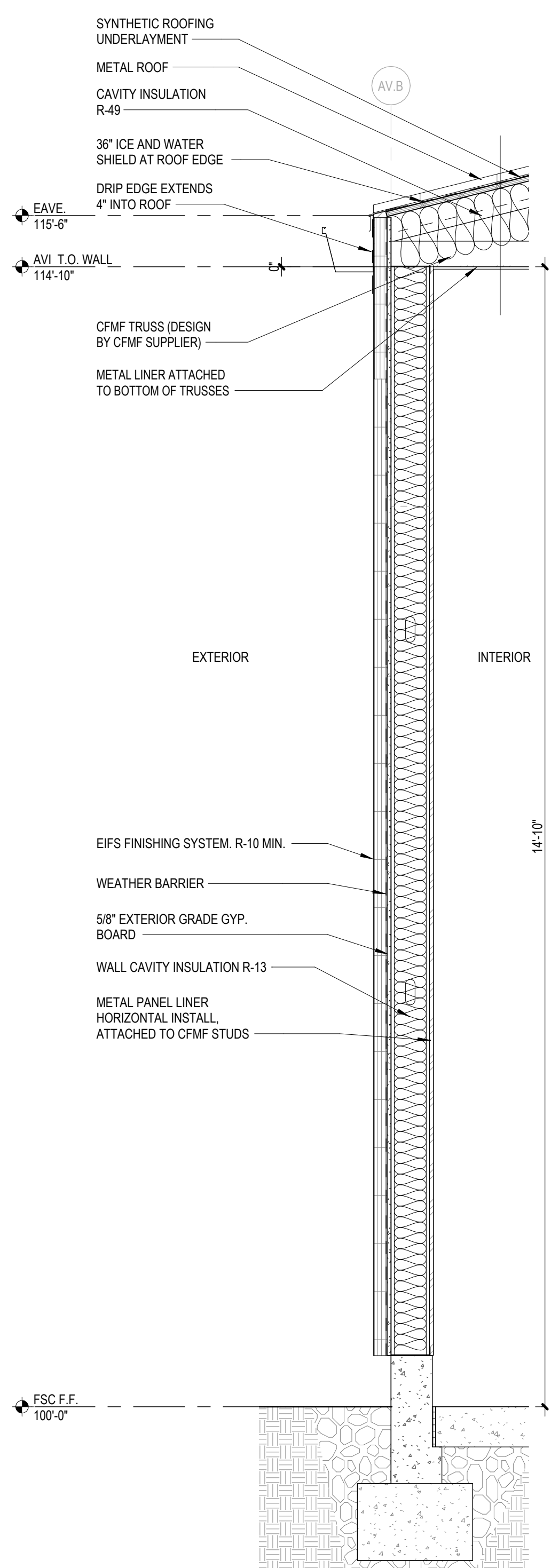
1. NOT ALL DOOR AND FRAME TYPES ARE USED. COORDINATE WITH SCHEDULE.
2. DOOR NUMBERING MUST BE FOLLOWED EXACTLY PER PLANS. ANY CONFLICTS SHOULD BE BROUGHT TO ARCHITECTS OR CONSTRUCTION MANAGERS ATTENTION.
3. ALL WOOD BLOCKING REQUIRED AT EXTERIOR WALL / WINDOW DETAILS TO BE PRESSURE TREATED.
4. G.C. TO VERIFY ALL HARDWARE FUNCTION, KEYING AND SECURITY REQUIREMENTS WITH OWNER PRIOR TO PURCHASE. ALL EXISTING DOORS TO BE REUSED TO GET NEW CORES. COORDINATE KEYING WITH OWNER.
5. VERIFY ROUGH OPENING SIZES AND REQUIREMENTS WITH DOOR / FRAME MANUFACTURER.
6. MAXIMUM PULL FORCES FOR EXTERIOR DOORS TO BE 15 LBS.
7. MAXIMUM PULL FORCES FOR INTERIOR DOORS TO BE 5 LBS.
8. PAINT INTERIOR SIDE OF ALL WAREHOUSE EXTERIOR HOLLOW METAL DOORS AND FRAMES "SEMI-GLOSS" SAFETY RED (P-10).
9. ALL WOOD DOORS TO BE 1-3/4" SOLID CORE. WOOD VENEER: VENEER TO BE MAPLE WITH THREE COATS OF CLEAR WATER BASED POLYURETHANE. LIGHTLY SAND BETWEEN COATS.
10. ALL INTERIOR HOLLOW METAL WELDED DOOR FRAMES ARE TO BE PAINTED SEMI-GLOSS TO MATCH ADJACENT WALL FINISH TYP.
11. PROVIDE RUST INHIBITOR COATING AND STAINLESS STEEL SCREWS / FASTENERS ON ALL HARDWARE ITEMS AT EXTERIOR DOORS PER MANUFACTURER SPECIFICATIONS.
12. ALL ELECTRICAL HARDWARE SHALL BE COORDINATED WITH ELECTRICAL AND SECURITY CONTRACTORS.
13. ALL HOLLOW METAL DOORS TO BE 1-3/4" THICK. EXTERIOR HOLLOW METAL DOORS TO BE INSULATED WITH A U-VALUE OF 0.50.
14. G.C. TO PROVIDE BEST 7-PIN SFC GREEN METAL CONSTRUCTION CORES. PLASTIC CORES NOT ALLOWED.
15. COORDINATE CAGE DOORS WITH SECURITY.
16. WITHIN 2 WEEKS OF CONTRACT, G.C. TO EVALUATE AND ORDER DOOR HARDWARE. COORDINATE WITH SECURITY DRAWINGS FROM EES AND CONSTRUCTION MANAGER FOR APPROVAL.
17. ABBREVIATIONS:

EQUIPMENT SCHEDULE

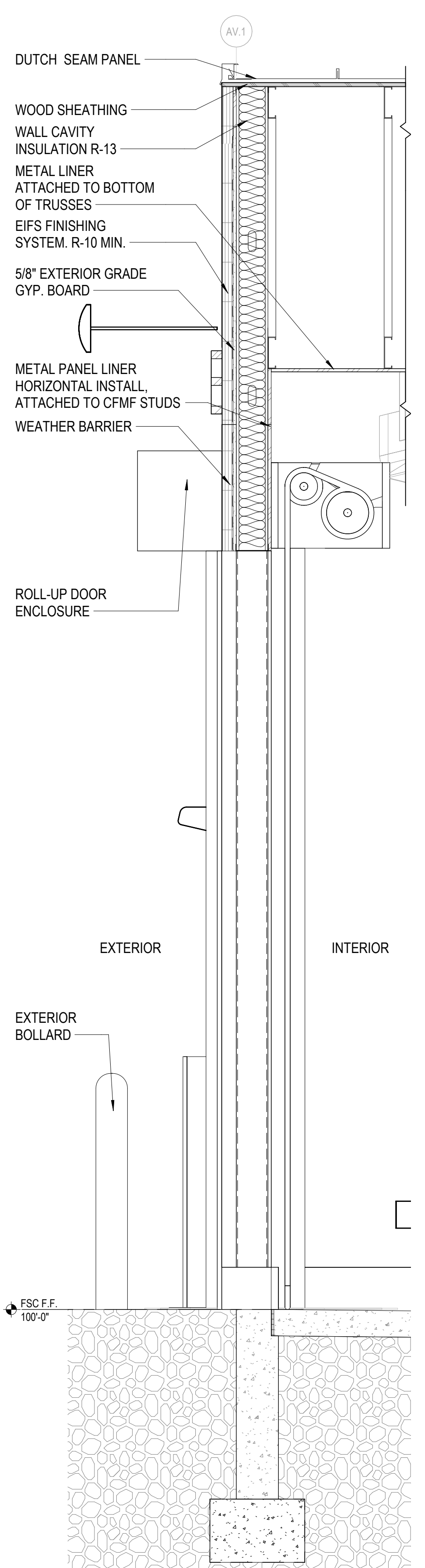
EQUIPMENT NAME	PROVIDED BY	INSTALLED BY
FLEXIBLE LANE DELINEATORS	BY OTHERS	BY OTHERS
AVI SCANNING EQUIPMENT	BY OTHERS	BY OTHERS
FLOOR-MOUNTED CABLE PROTECTION MATS	BY OTHERS	BY OTHERS
UVEYE SERVER STACK	BY OTHERS	BY OTHERS
ATLAS CONTROL CABINET	BY OTHERS	BY OTHERS
33" FLEX BOLLARD	BY GC	BY OTHERS
SPEED BUMP	BY GC	BY GC

KEYNOTES

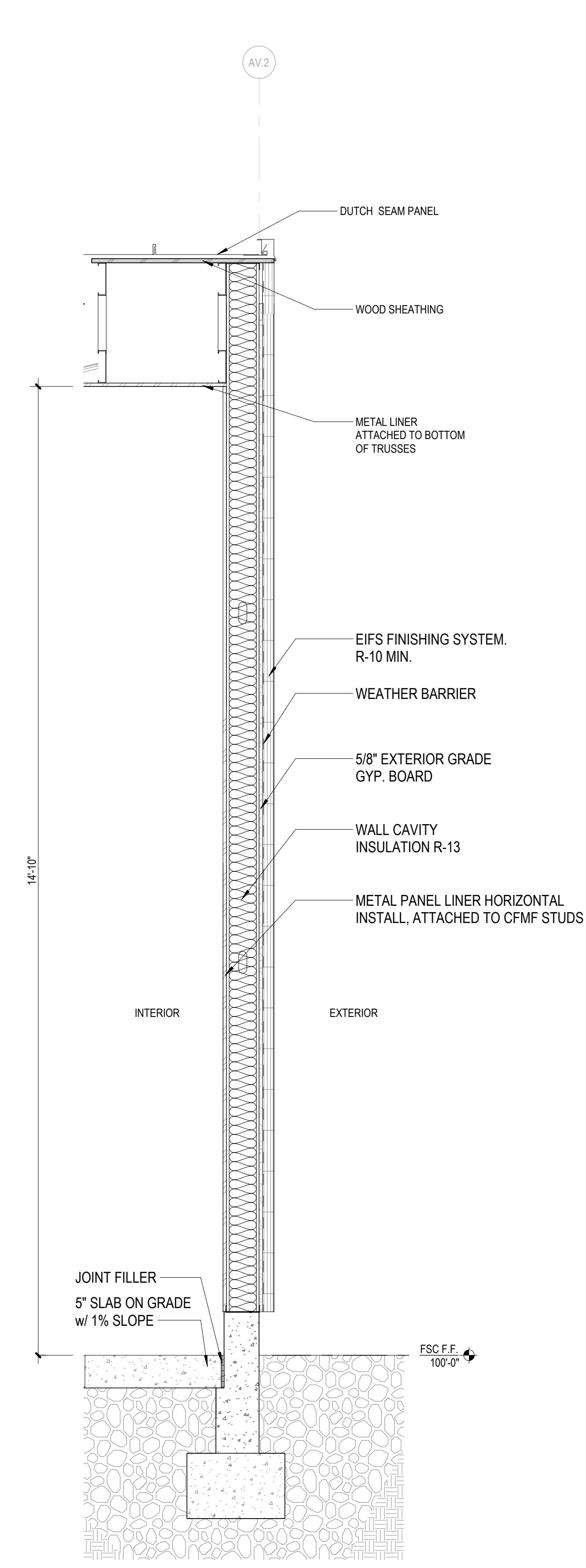
NUMBER	NOTE
A03	6" CONCRETE FILLED, SCHEDULE 40 STEEL PIPE BOLLARD, 4'-0" ABOVE GRADE.
A04	INTERIOR SURFACE MOUNTED BOLLARD. TYP. SEE AAS 03
A10	2 ADJACENT 6'-0" REMOVABLE HEAVY-DUTY RUBBER SPEED BUMPS CENTERED ON AVI ENTRANCE ARCHITECTURAL.
A118	PREFINISHED METAL DOWNSPOUT
A128	PREFINISHED 9" METAL GUTTER. COLOR TO MATCH MP-1
A201	G.C. TO LOCATE CENTERLINE OF AVI LANE GUARDRAIL OPENINGS WITH TEMPORARY TAPE ON FLOOR Architecture
A202	ATLAS CONTROL CABINET. BY OWNER'S VENDOR Architecture
A203	UVEYE EQUIPMENT CABINET. BY OWNER'S VENDOR
A205	IDF. REFER TO LOW VOLTAGE DRAWINGS
A206	FLEXIBLE LANE DELINEATOR. BY OWNER'S VENDOR
A208	AVI EQUIPMENT. REFER TO THE EQUIPMENT SCHEDULE.
A210	FIRE EXTINGUISHER AND MOUNTING BRACKET.
A211	33" A-SAFE I/FLEX HEAVY DUTY BOLLARD. REFER TO EQUIPMENT SCHEDULE.



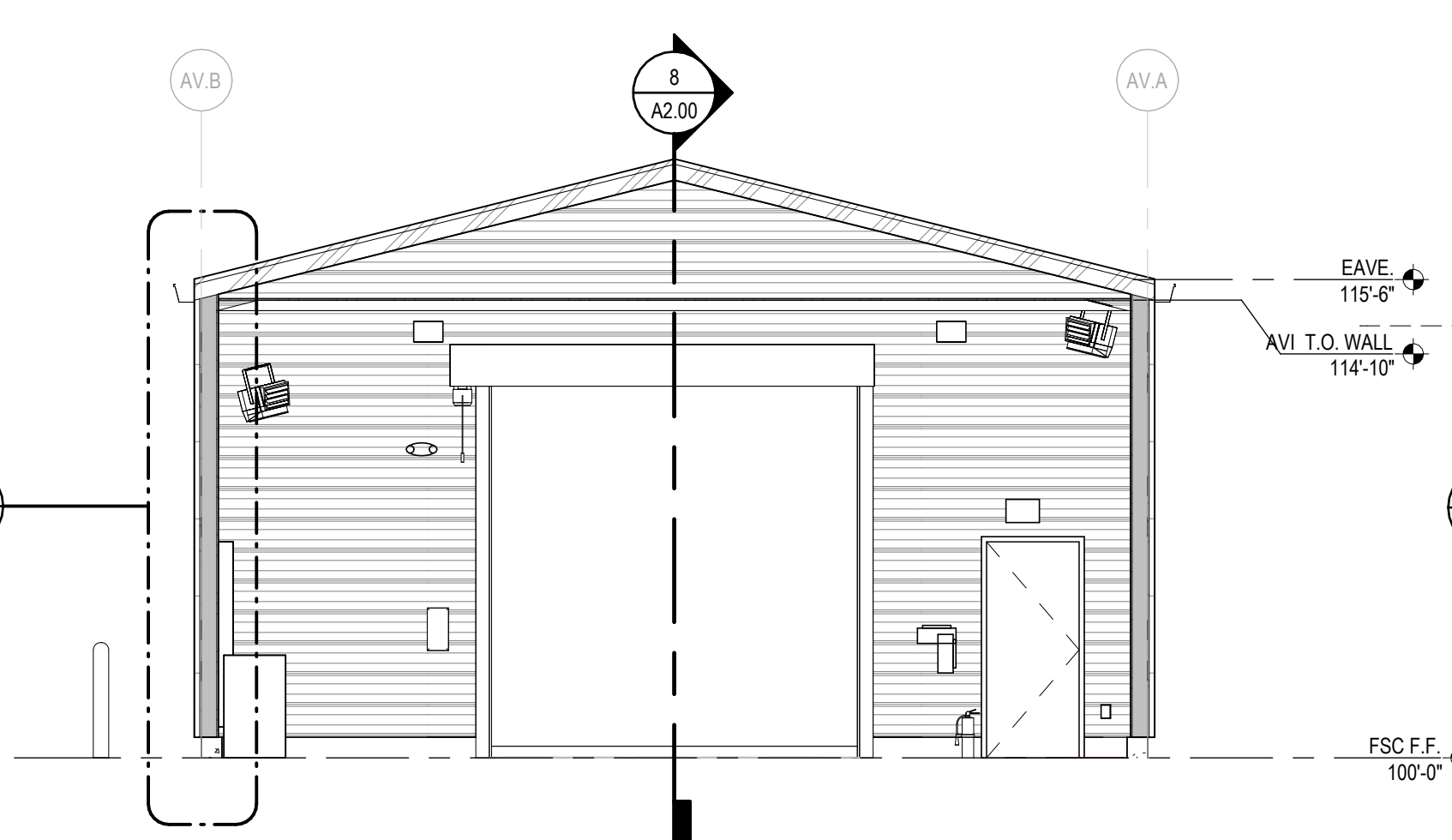
1 AVI EXTERIOR WALL SECTION A
3/4" = 1'-0"



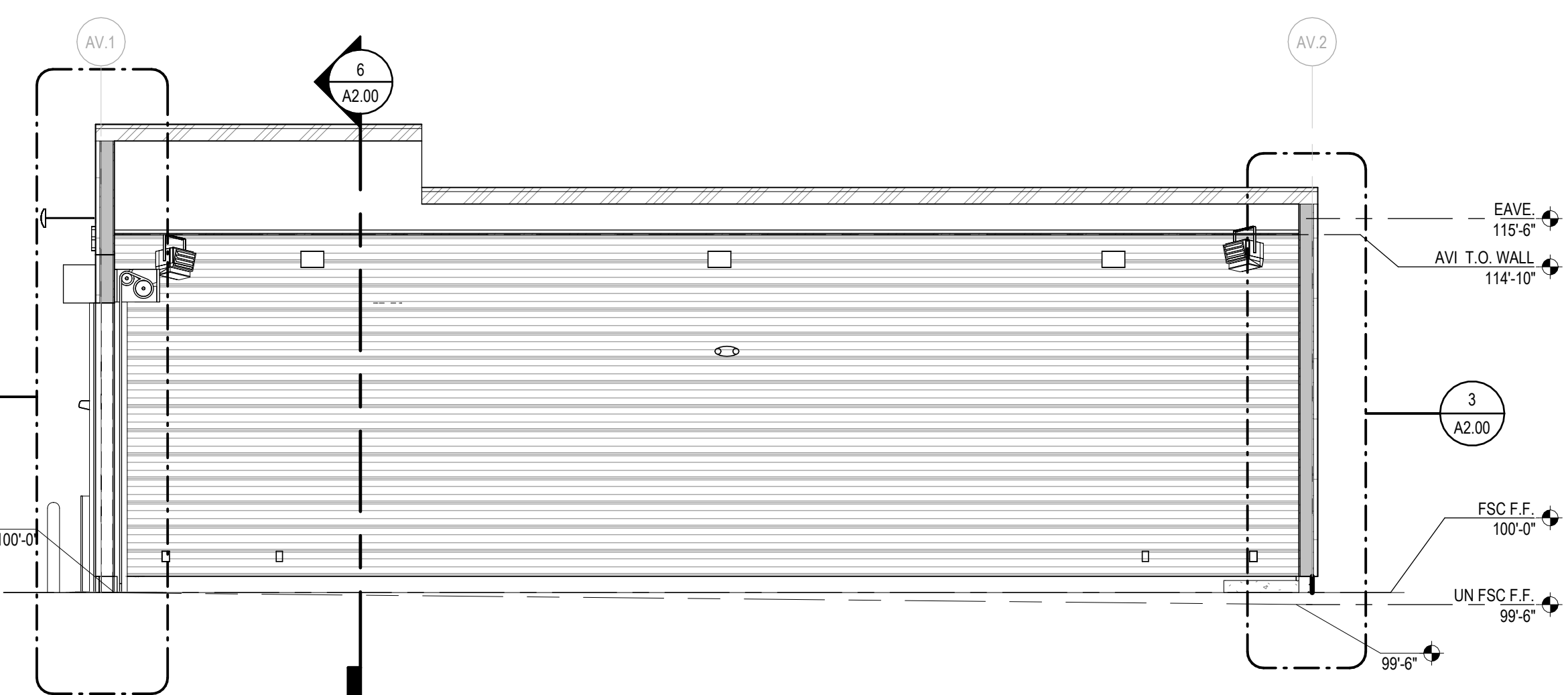
2 AVI EXTERIOR WALL SECTION B
3/4" = 1'-0"



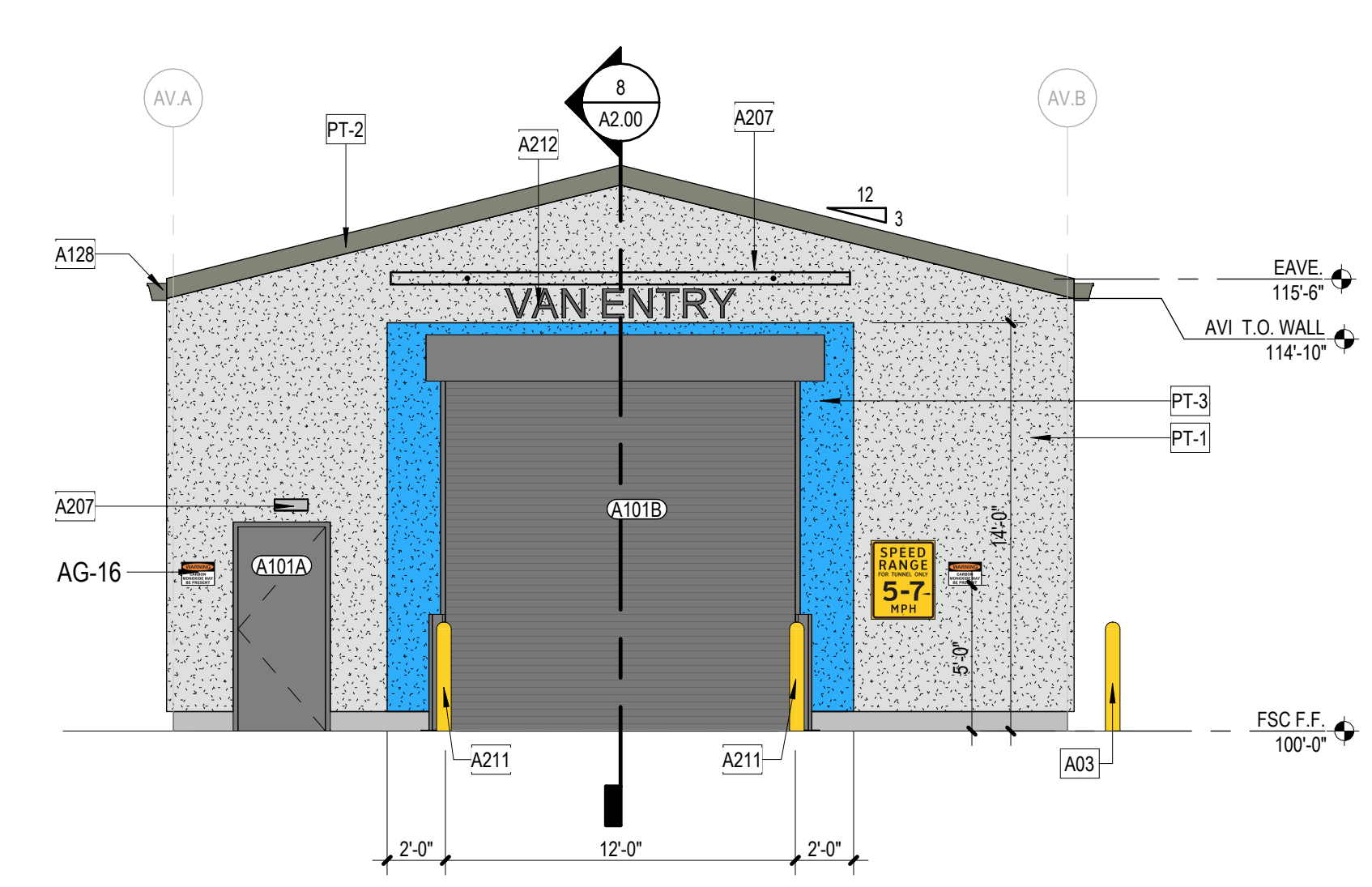
3 AVI EXTERIOR WALL SECTION C
3/4" = 1'-0"



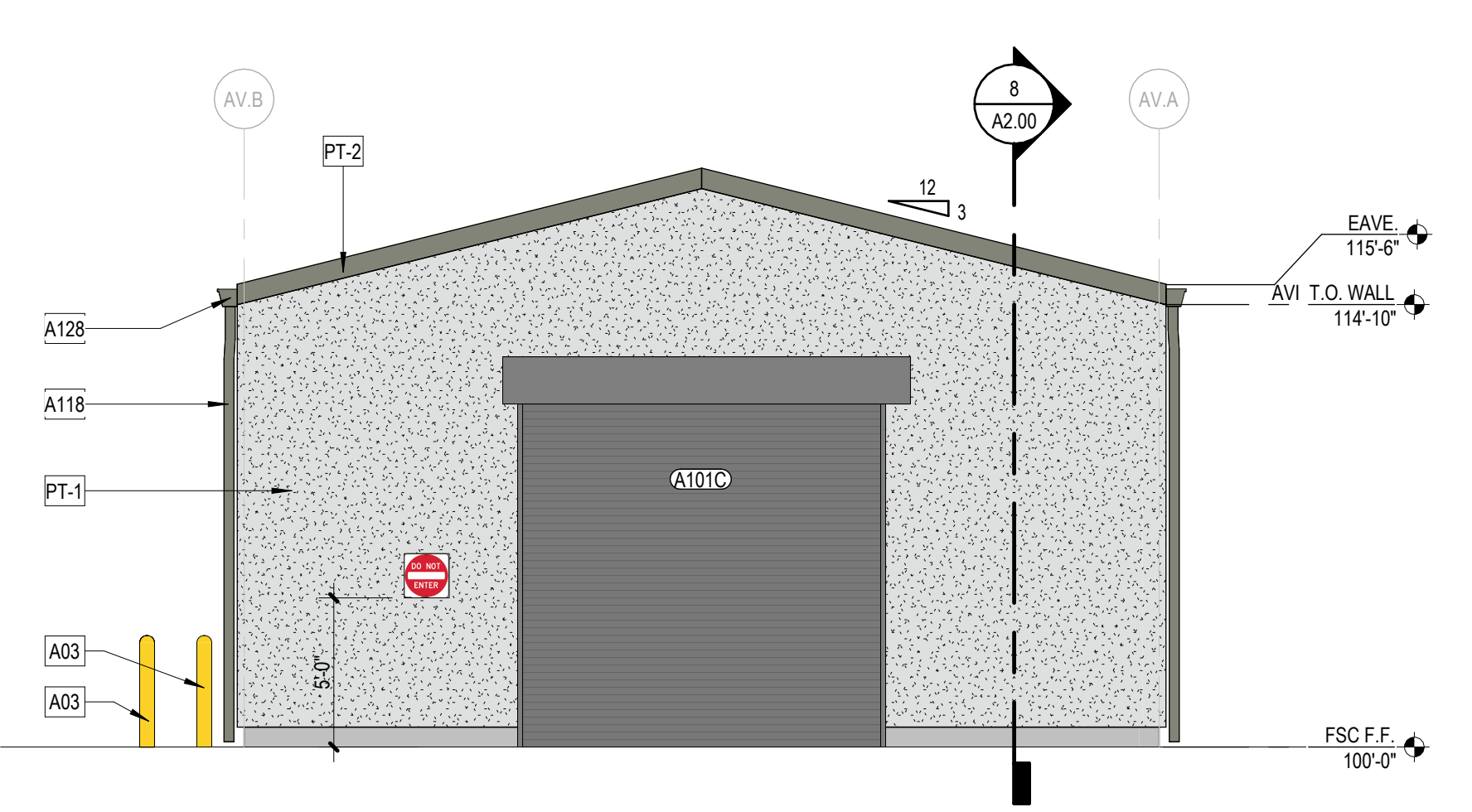
6 AVI TUNNEL SECTION B
3/16" = 1'-0"



8 AVI TUNNEL SECTION A
3/16" = 1'-0"



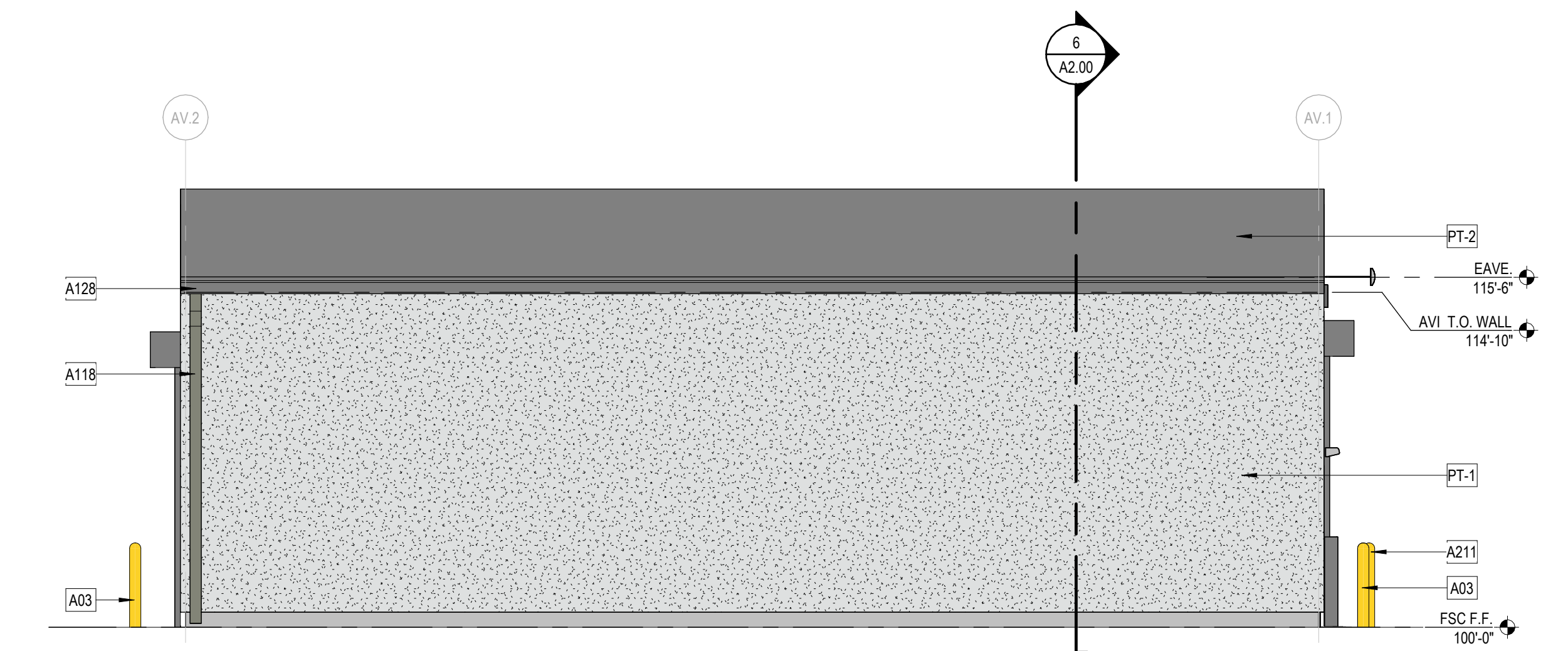
4 AVI TUNNEL - EAST ELEVATION
3/16" = 1'-0"



5 AVI TUNNEL - WEST ELEVATION
3/16" = 1'-0"



7 AVI TUNNEL - SOUTH ELEVATION
3/16" = 1'-0"



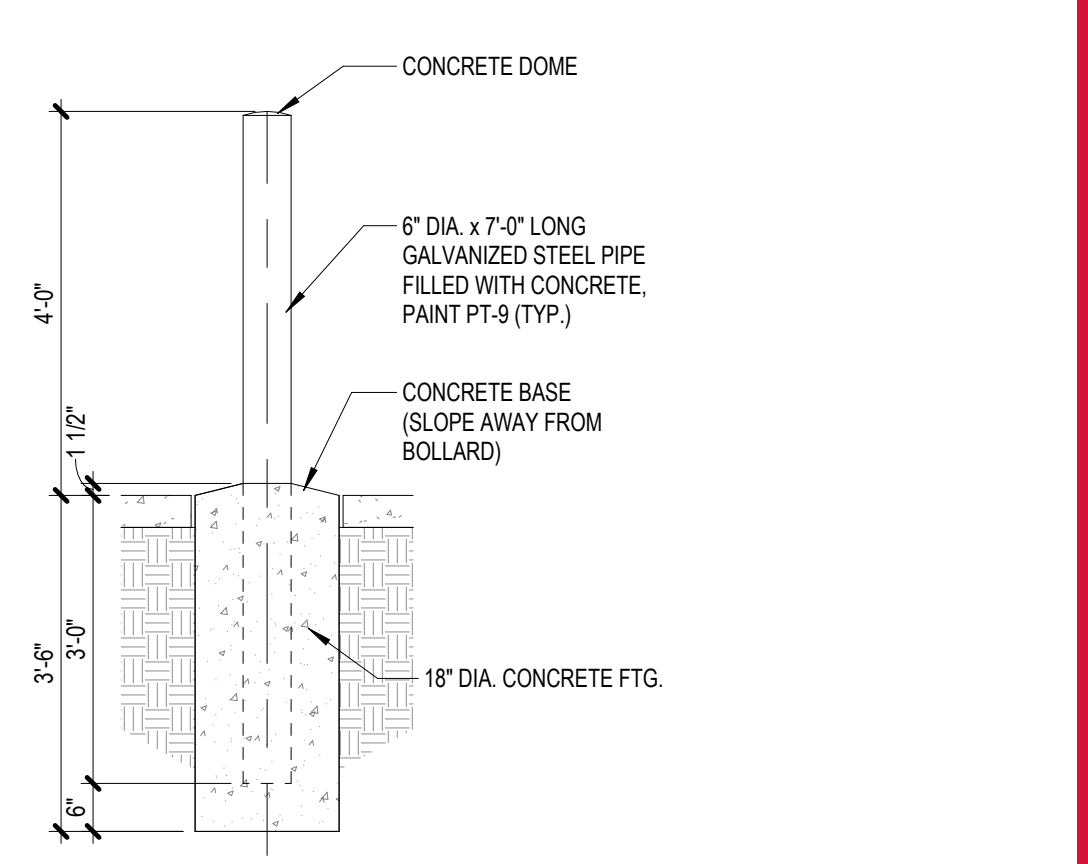
9 AVI TUNNEL - NORTH ELEVATION
3/16" = 1'-0"

EXTERIOR MATERIALS LEGEND

(PT-1)	SHERWIN WILLIAMS SW 7063 NEBULOUS WHITE
(PT-4)	MANUFACTURER'S STANDARD WHITE
(PT-2)	CHARCOAL GRAY
(PT-3)	PANTONE COLOR TO MATCH PANTONE 2995 C

BUILDING ELEMENTS	COLOR
EXTERIOR METAL PANELS	ALUMINUM FACTORY FINISH
METAL COPING AT CANOPY FASCIA	ALUMINUM FACTORY PRIMED WHITE, PAINTED PT-1
METAL DOWNSPOUT AND CONDUCTOR HEADS	PT-2
HOLLOW METAL DOORS AND FRAMES	PT-1
ASSOCIATE ENTRY CANOPY SOFFIT	PT-3
UNDERSIDE OF DECK AND STRUCTURAL STEEL AT DRIVE UNDER CANOPY	PT-4
COLUMNS AT DRIVE UNDER CANOPY	PT-4

NUMBER	NOTE
A03	6" CONCRETE FILLED, SCHEDULE 40 STEEL PIPE BOLLARD. 4'-0" ABOVE GRADE.
A118	PREFINISHED METAL DOWNSPOUT
A128	PREFINISHED 8" METAL GUTTER. COLOR TO MATCH MP-1
A207	LIGHT FIXTURE
A211	33" A. SAFE IFLEX HEAVY DUTY BOLLARD. REFER TO EQUIPMENT SCHEDULE.
A212	10" TALL GRAPHIC PAINTED ON WALL.



10 SITE PROTECTIVE BOLLARD DETAIL (TYP.)
1/2" = 1'-0"

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AVI TUNNEL ELEVATIONS & SECTIONS
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ELECTRIC HEATER SCHEDULE

MARK	BUILDING	SERVICE	MANUFACTURER	MODEL	HEATING LOAD (WATTS)	ELECTRICAL			REMARKS	
						V	PH	HZ		
EH-AVI-1	AUTOMATIC VEHICLE INSPECTION	A101 AVI TUNNEL	QMARK	IUH-1020	9600	208	3	60	27.6	1.2.3
EH-AVI-2	AUTOMATIC VEHICLE INSPECTION	A101 AVI TUNNEL	QMARK	IUH-1020	9600	208	3	60	27.6	1.2.3
EH-AVI-3	AUTOMATIC VEHICLE INSPECTION	A101 AVI TUNNEL	QMARK	IUH-1020	9600	208	3	60	27.6	1.2.3
EH-AVI-4	AUTOMATIC VEHICLE INSPECTION	A101 AVI TUNNEL	QMARK	IUH-1020	9600	208	3	60	27.6	1.2.3

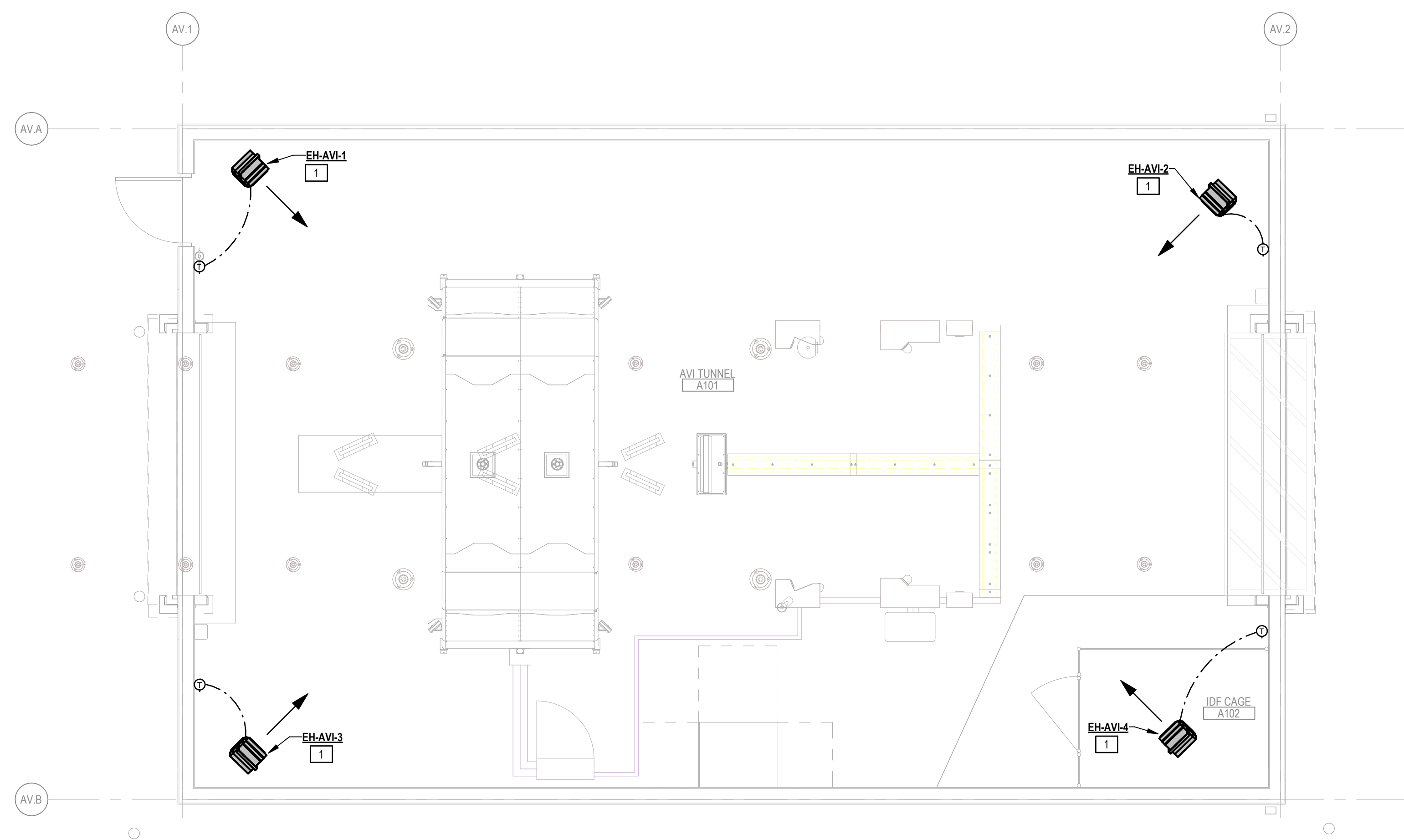
- REMARKS:
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
 2. HEATER TO BE CONTROLLED BY REMOTE THERMOSTAT FURNISHED WITH ELECTRIC HEATER.
 3. PROVIDE WITH 3-POLE POWER DISCONNECT SWITCH KIT FOR FIELD INSTALLATION.

MECHANICAL GENERAL NOTES

1. COMPLY WITH ALL APPLICABLE LOCAL, STATE AND/OR REGULATORY AGENCIES, CODES AND REGULATIONS FOR NEW WORK.
2. DO NOT INSTALL EQUIPMENT, PIPING OR DUCTWORK OVER ANY ELECTRICAL EQUIPMENT OR COMMUNICATION ROOMS.
3. DO NOT RUN ANY PIPING OR DUCTWORK INTO THE ELECTRICAL ROOM UNLESS DEDICATED TO SERVE THAT ROOM.
4. INSTALL MECHANICAL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE, AND REPAIR OR REPLACEMENT OF EQUIPMENT COMPONENTS AS MUCH AS PRACTICAL. CONNECT EQUIPMENT FOR CASE OF DISCONNECTING, WITH A MINIMUM OF INTERFERENCE WITH OTHER INSTALLATIONS.
5. LOCATE THERMOSTAT/TEMPERATURE SENSORS 48" ABOVE FINISHED FLOOR OR AS NOTED ON THE PLANS.
6. WORK IDENTIFIED WITH MECHANICAL, PLUMBING, AND ELECTRICAL NOTES AND KEY NOTES SHALL BE PERFORMED BY QUALIFIED MECHANICAL, PLUMBING, AND ELECTRICAL CONTRACTORS RESPECTIVELY UNDER DIRECTION OF THE CONSTRUCTION MANAGER. COORDINATE WITH OWNER'S REPRESENTATIVE OR CONSTRUCTION MANAGER.
7. INSTALL SMOKE DETECTOR IN DUCTWORK AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS.
8. VERIFY ALL CONDITIONS IN FIELD BEFORE START OF CONSTRUCTION. NOTIFY ARCHITECT/ENGINEER OF DISCREPANCIES BETWEEN DRAWINGS AND ACTUAL FIELD CONDITIONS.
9. COORDINATE WORK WITH OTHER TRADES AND WITH THE CONSTRUCTION MANAGER.
10. COORDINATE ANY REQUIRED SHUTDOWN OF SERVICES OR EQUIPMENT WITH OWNER'S REPRESENTATIVE OR CONSTRUCTION MANAGER, MINIMIZE INTERRUPTION OF EXISTING SERVICES.
11. PROVIDE ALL MISCELLANEOUS STEEL AND ITEMS REQUIRED FOR THE PROPER INSTALLATION OF ALL PIPE, SHEET METAL AND EQUIPMENT.
12. COORDINATE FLOOR, WALL & ROOF PENETRATIONS ETC. WITH ARCHITECTURAL TRADES.
13. FIRESTOP SHALL BE PROVIDED IN HOLES AND PENETRATIONS IN RATED ASSEMBLIES.

HVAC KEYNOTES

1. MOUNT ELECTRICAL UNIT HEATER AT 11'-0" AFF SUSPENDED FROM CEILING, WALL OR COLUMN MOUNT HEATING ONLY THERMOSTAT AT 48" A.F.F. WHERE SHOWN ON PLANS. WHERE THERMOSTAT IS LOCATED ON AN EXTERIOR WALL, PROVIDE INSULATED WOOD BLOCKING BEHIND THERMOSTAT TO ISOLATE FROM EXTERIOR WALL.



AVI TUNNEL HVAC PLAN
1/4" = 1'-0"

ELECTRICAL ABBREVIATIONS

Table of electrical abbreviations including symbols for AMPERES, ABOVE ACCESSIBLE CEILING, AIR COMPRESSOR, etc.

ELECTRICAL ABBREVIATIONS

Table of electrical abbreviations including symbols for KEY SWITCH, KILOVOLT, KILOVOLT-AMPERES, etc.

DATA SYMBOL LEGEND

Table of data symbols for electrical contractor, mechanical contractor, and others, including symbols for dataphone outlets and ceiling access points.

WIRING SYMBOL LEGEND

Table of wiring symbols for electrical contractor, mechanical contractor, and others, including symbols for conduits, cables, and power lines.

POWER SYMBOL LEGEND

Table of power symbols for electrical contractor, mechanical contractor, and others, including symbols for single and duplex receptacles, switches, and motors.

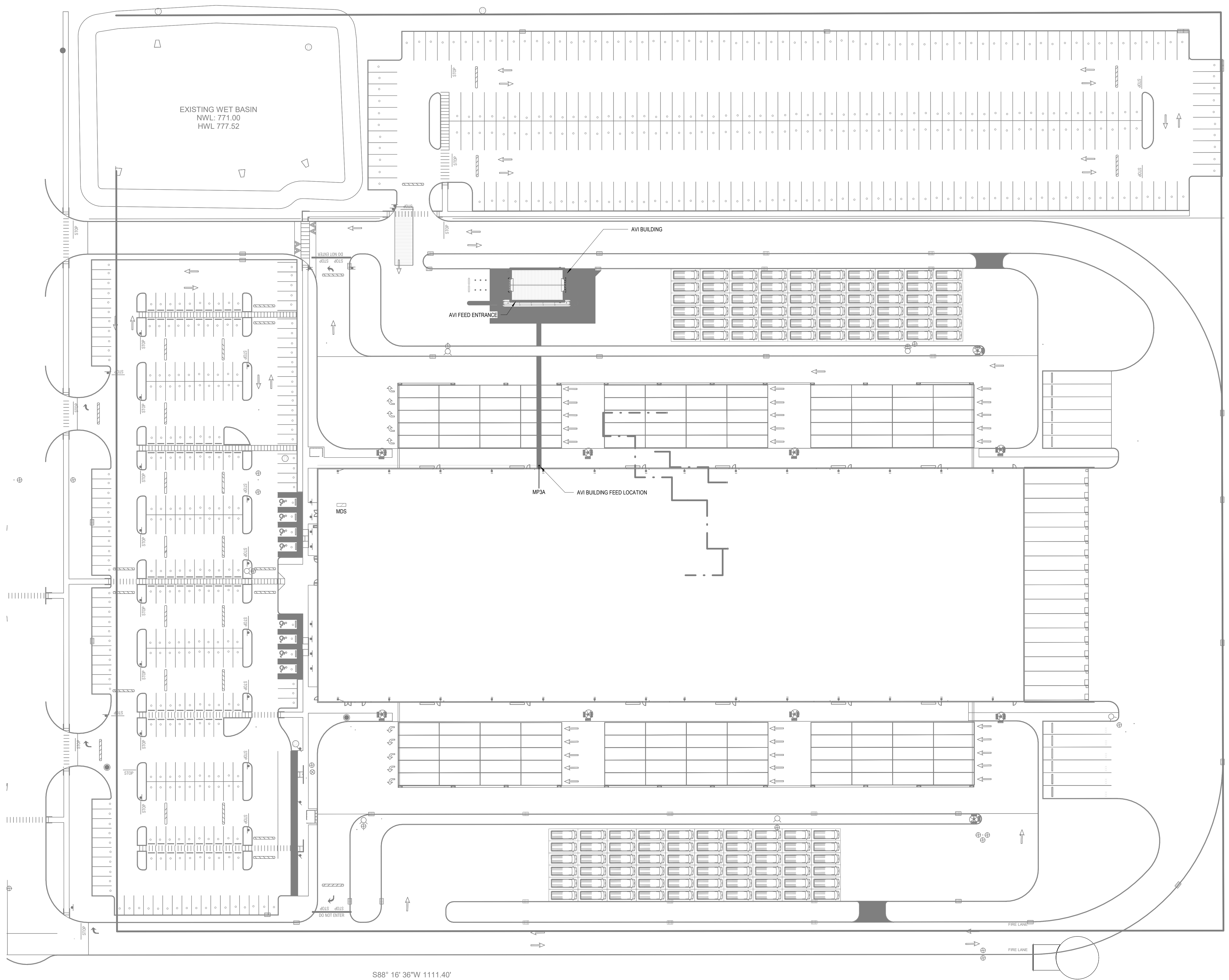
LIGHTING SYMBOL LEGEND

Table of lighting symbols for electrical contractor, mechanical contractor, and others, including symbols for single pole switches, dimmers, and various light fixtures.

GENERAL ELECTRICAL NOTES

- List of general electrical notes including: UNDERGROUND RACEWAY OUTSIDE THE STRUCTURE SHALL BE PVC; ALL LOW VOLTAGE CABLES OR CONDUCTORS OPERATING AT LESS THAN 50 VOLTS SHALL BE IN METAL RACEWAY...

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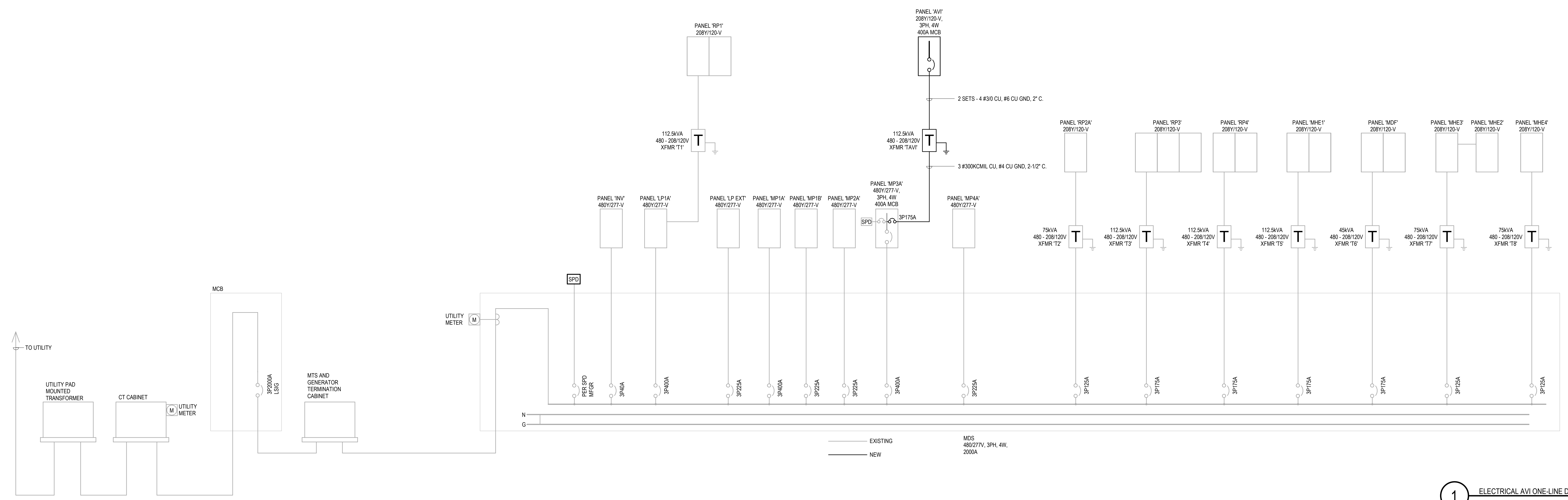
AVI ELECTRICAL SITE PLAN

1" = 40'-0"

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ONE-LINE GENERAL NOTES

- OVERCURRENT DEVICES OF ENTIRE DISTRIBUTION SYSTEM SHALL MEET STATED FAULT CURRENT VALUES WITH FULLY RATED EQUIPMENT.
- CONDUCTOR LENGTHS INDICATED ON THE SINGLE LINE DIAGRAM ARE FOR FAULT CURRENT CALCULATIONS ONLY. ACTUAL LENGTH SHALL BE DETERMINED BY FIELD CONDITIONS AND ACTUAL ROUTES OF FEEDERS.
- ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- VERIFY LOCATIONS AND ROUGH-IN REQUIREMENTS OF ALL OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN.
- PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLY FIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS THAT MAY EXCEED THESE REQUIREMENTS.



1 ELECTRICAL AVI ONE-LINE DIAGRAM
 12" = 1'-0"