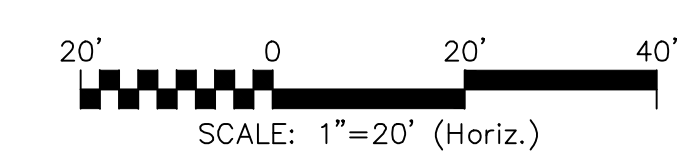


NOTE:
 ALL NEW UNDERGROUND LINES AND LINES DISCOVERED DURING EXCAVATION OUTSIDE OF BUILDING FOOTPRINT, EXCEPT LAWN IRRIGATION LINES, SHALL BE REQUIRED TO HAVE A WARNING TAPE INSTALLED IN THE BACKFILL BETWEEN 6 INCHES TO 24 INCHES BELOW FINISHED GRADE DIRECTLY OVER PIPING;

- METALLIC LINES SHALL BE IDENTIFIED WITH DURABLE PRINTED PLASTIC WARNING TAPES, MINIMUM 3 INCHES WIDE WITH LETTERING TO IDENTIFY BURIED LINE BELOW.
- NON-METALLIC PIPES, OTHER THAN GAS LINES SHALL BE IDENTIFIED BY DETECTABLE WARNING TAPE, MINIMUM 2 INCHES WIDE, WITH LETTERING TO IDENTIFY BURIED LINE BELOW.
- 2012 NC FUEL GAS CODE, SECTION 404.15.3 TRACER: AN INSULATED COPPER TRACER WIRE OR OTHER APPROVED CONDUCTOR SHALL BE INSTALLED ADJACENT TO THE UNDERGROUND NONMETALLIC PIPING. ACCESS SHALL BE PROVIDED TO THE TRACER WIRE OR THE TRACER WIRE SHALL TERMINATE ABOVEGROUND AT THE END OF THE NONMETALLIC PIPING. THE TRACER WIRE SIZE SHALL NOT BE LESS THAN 18AWG AND THE INSULATION TYPE SUITABLE FOR DIRECT BURIAL.
- ALL ADDITIONAL SOILS REQUIRED TO ATTAIN NEW GRADES ARE INCLUDED IN THE CONTRACT.

- NOTES:**
- EXISTING WATER VAULT AND METER TO REMAIN FOR RECONNECTION.
 - ABANDON ALL WATER LINES DOWNSTREAM OF EXISTING WATER VAULT AND METER TO REMAIN.
 - CONNECT NEW 1.5" WATER TO EXISTING 2" WATER AT DISCHARGE OF EXISTING WATER METER.
 - CONTRACTOR SHALL CONFIRM INVERT OF EXISTING 4" PVC SANITARY PRIOR TO CONNECTING NEW 4" PVC SANITARY LINE AND INSTALL CLEANOUT AT CONNECTION POINT.
 - CONFIRM CROSSING POINT OF EXISTING 18" CMP PRIOR TO INSTALLING NEW 4" PVC SANITARY.
 - CONNECT NEW 1" NATURAL GAS LINE TO EXISTING. LOCAL UTILITY TO PROVIDE GAS METER AT BUILDING.
 - CONNECT NEW ELECTRICAL SERVICE TO EXISTING POWER POLE. LOCAL UTILITY TO PROVIDE TRANSFORMER.
 - CONTRACTOR TO COORDINATE WITH AND ASSIST LOCAL UTILITY FOR REMOVAL OF OVERHEAD POWER, METER, METER BASE, ETC.
 - NEW PVC ROOF DRAIN LEADERS CONNECTED TO DOWNSPOUTS
 - SWALE FOR STORM WATER MANAGEMENT.
 - EX. APPARENT INTERSECTION OF 18" CMP WITH 60" CMP. EXACT LOCATION UNKNOWN.
 - APPROXIMATE LOCATION OF GAS METER AND MAIN GAS SHUT OFF.
 - BUILDING DRAIN INV OUT =1792.00'
 - SEWER CLEANOUT INV=1791.90'
 - SEWER CLEANOUT INV=1790.15
 - SEWER CLEANOUT INV=1789.50'
 - RELOCATE EXISTING SHED. COORDINATE WITH DOT REP.
 - GC SHALL SLOPE TO EX. GRADE @ 20:1 SLOPE TO MINIMIZE IMPACT TO EXISTING GRAVEL.



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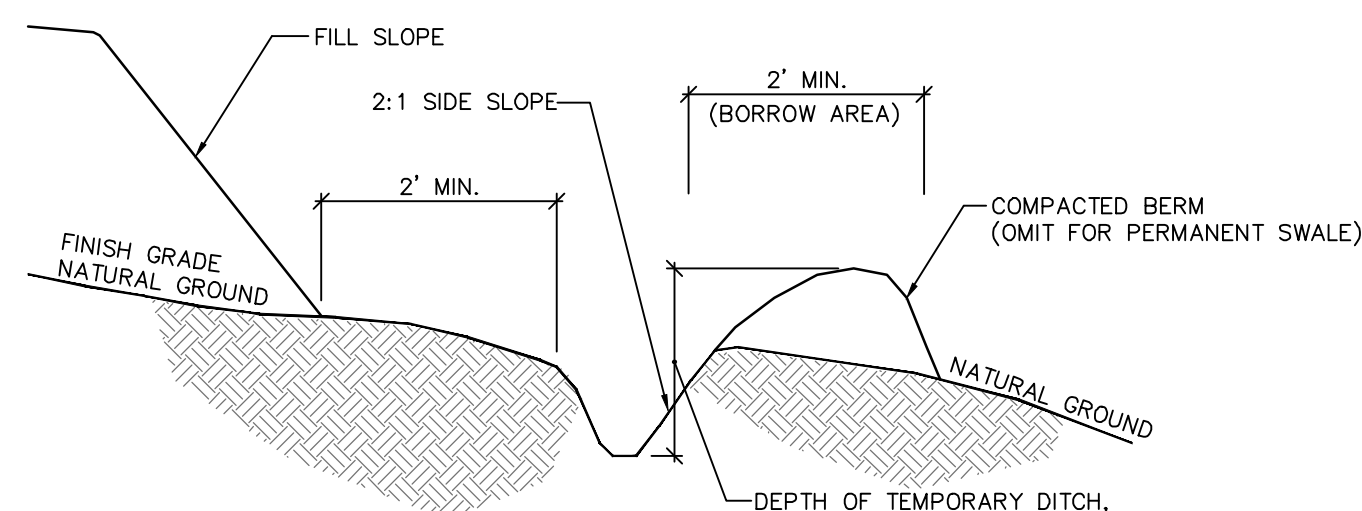
Designed _____ Drawn _____
 Checked _____ Date 11/1/18
 Project No. 07002-0001

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 Department of Transportation, Raleigh, NC SCO # 141126401A

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NOTE:

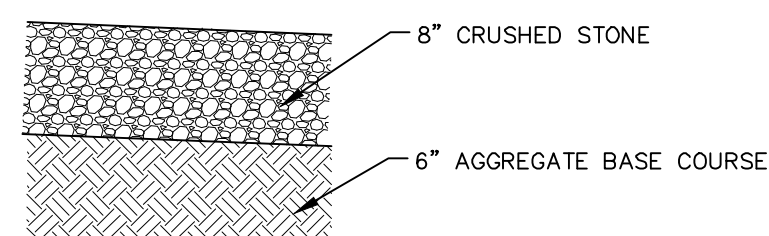
1. DITCH SHOULD HAVE MINIMUM LONGITUDINAL SLOPE OF 1.0%.
2. SILT FENCE MAY BE REQUIRED BEHIND BERM.

TEMPORARY DITCH MAINTENANCE NOTE:

INSPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED. WHEN THE AREA PROTECTED IS PERMANENTLY STABILIZED, REMOVE THE RIDGE AND THE CHANNEL TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE IT.

PERMANENT DITCH MAINTENANCE NOTE:

INSPECT PERMANENT DIVERSIONS AFTER EVERY RAINFALL DURING THE CONSTRUCTION OPERATION. IMMEDIATELY REMOVE ANY OBSTRUCTIONS FROM THE FLOW AREA, AND REPAIR THE DIVERSION RIDGE. CHECK OUTLETS, AND MAKE TIMELY REPAIRS AS NEEDED. MAINTAIN THE VEGETATION IN A VIGOROUS, HEALTHY CONDITION AT ALL TIMES.



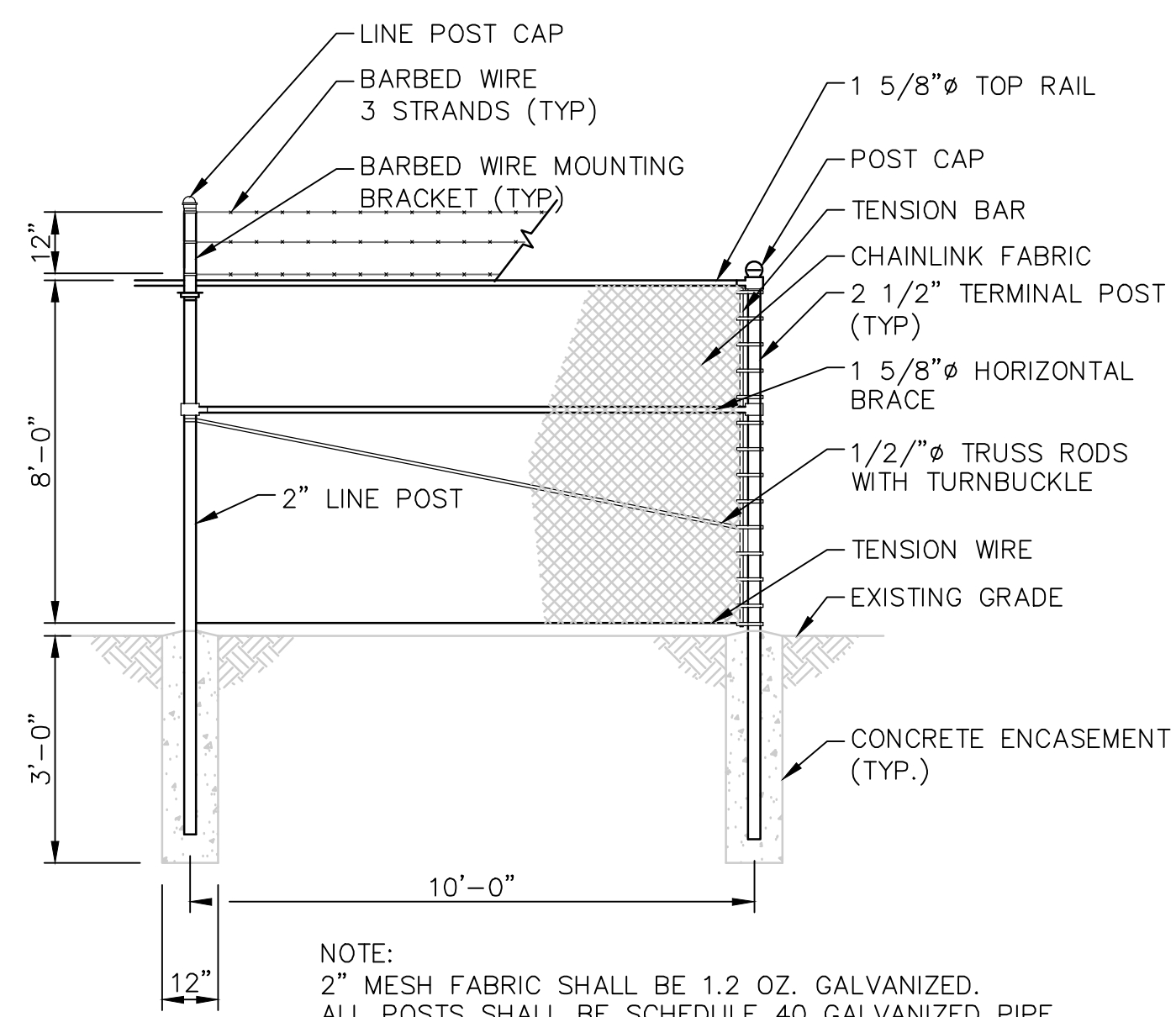
NOTE: GC TO CONSULT WITH GEOTECH OR PAVEMENT DESIGNER FOR FINAL PAVEMENT DESIGN

TEMPORARY DIVERSION & PERMANENT DITCH

N.T.S. 1

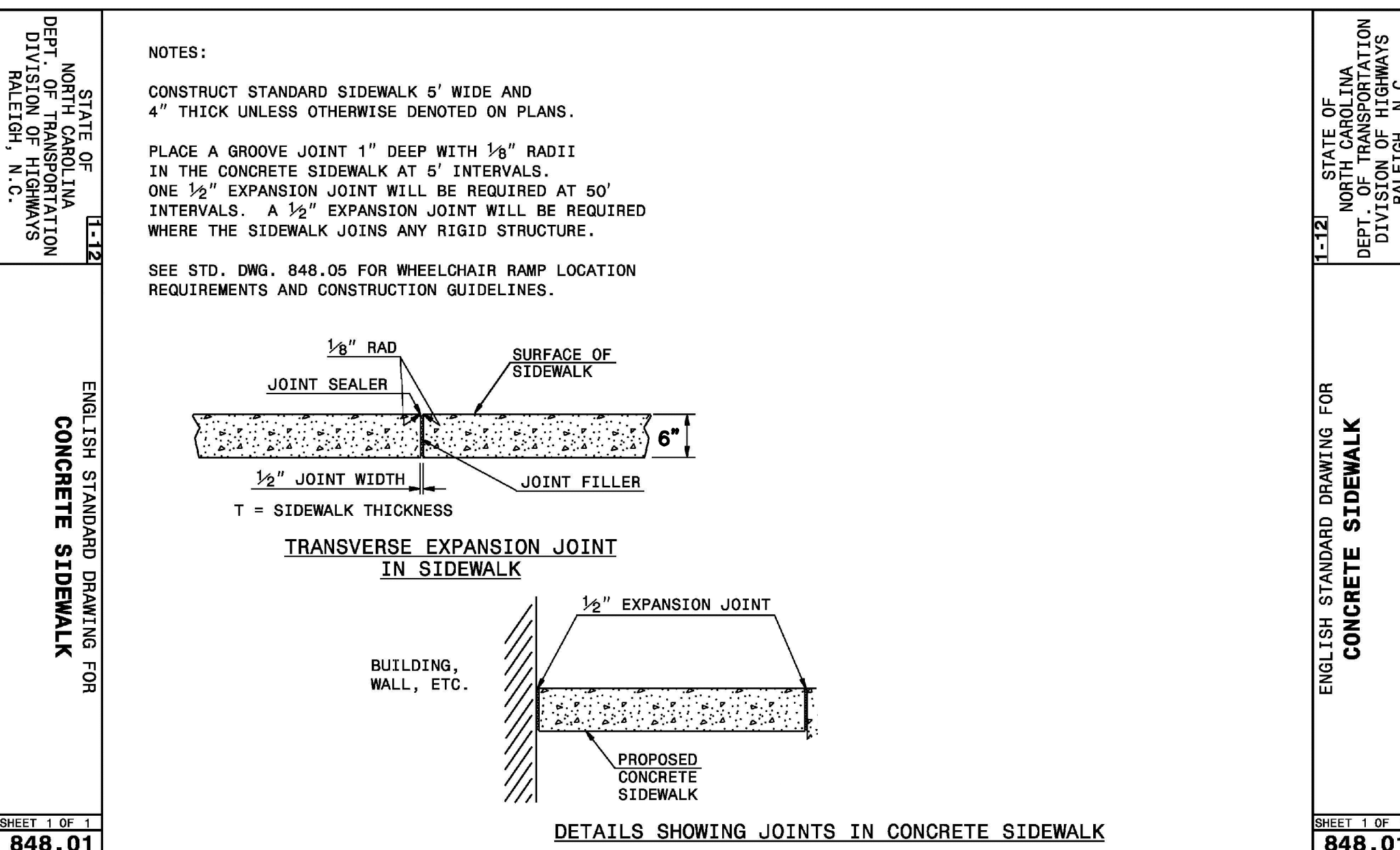
GRAVEL LOT SECTION

N.T.S. 2



CHAIN LINK FENCE DETAIL

N.T.S. 3



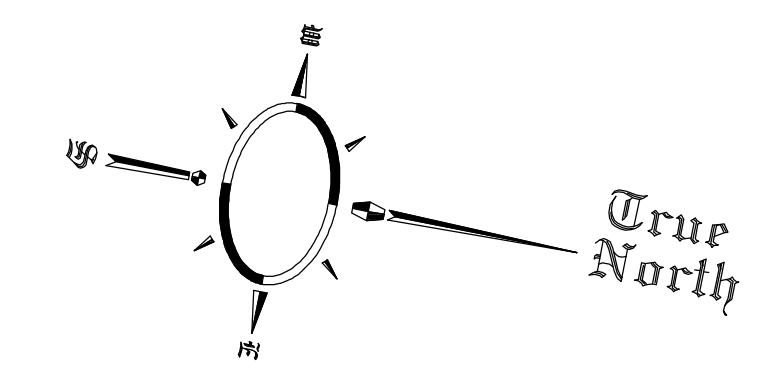
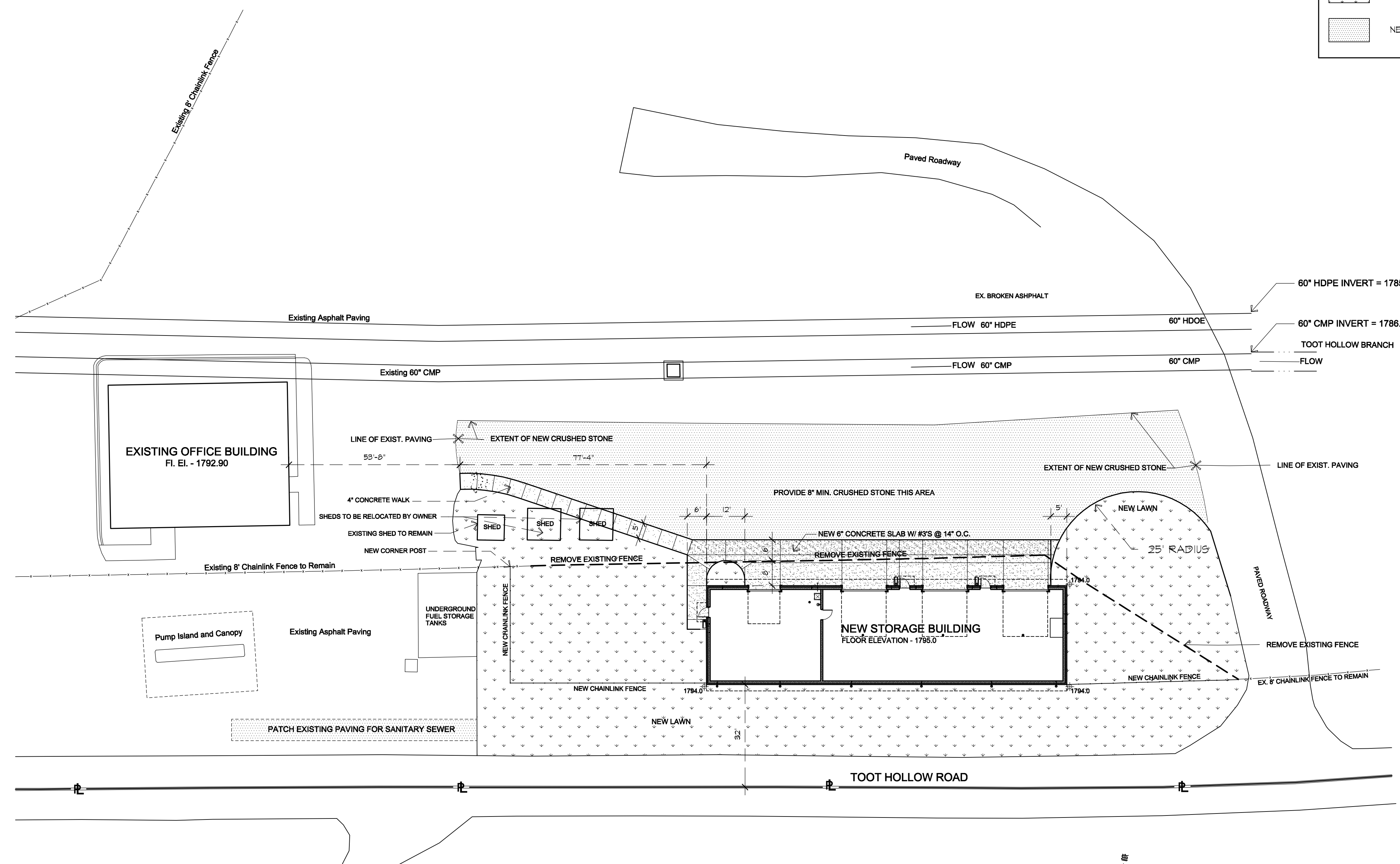
CONCRETE SIDEWALK DETAIL

N.T.S. 4

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Project No. 07002-0001



Legend	
SYMBOL	DESCRIPTION
	NEW CONCRETE SLAB
	NEW LAWN
	NEW 8" CRUSHED STONE



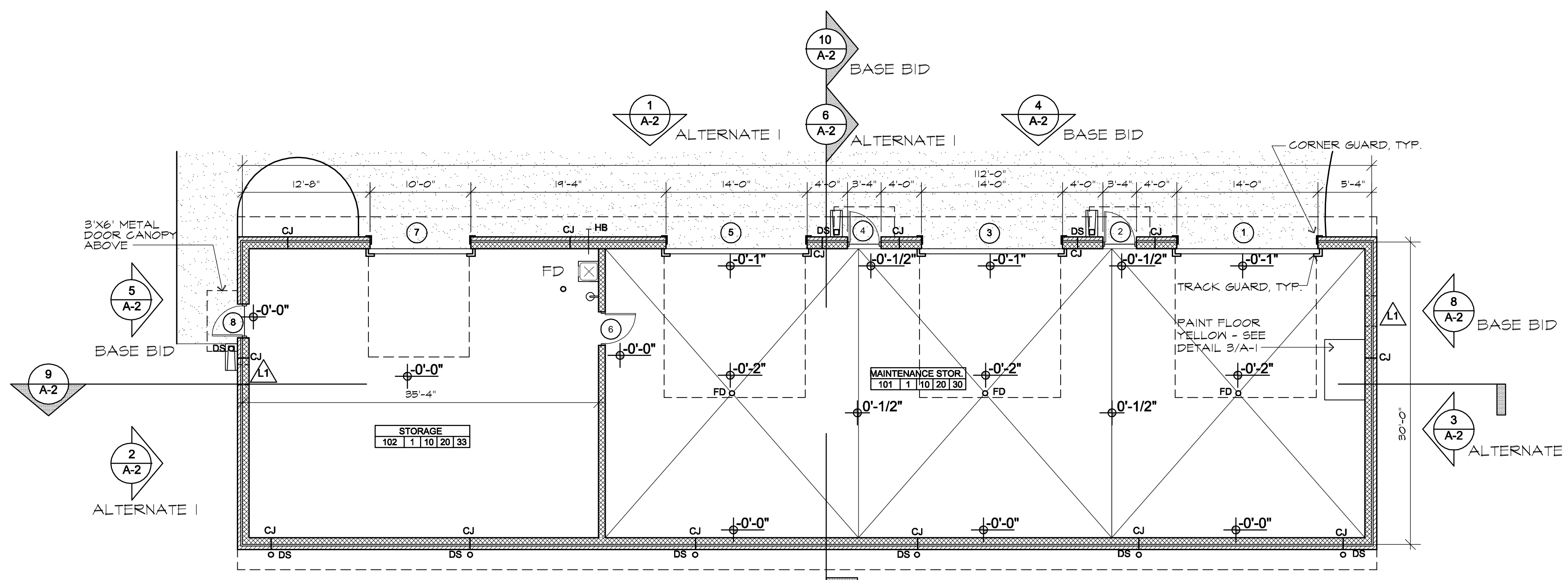
1 SP-1 Dimensioned Site Plan
1" = 20'

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SP-1



Room Finish Schedule

#	FINISH
1	Traveled, Sealed Concrete
2	
10	None
11	
12	
20	Paint on Concrete Block
21	
30	Paint Exposed Structure & Deck
31	
32	

Floor Plan Legend

- CONCRETE BLOCK
- BRICK VENEER
- CONCRETE WALK

Media Center
201 | 1 | 10 | 20 | 30

Room Finish Tag
See Finish Schedule
This Sheet.

- Ceiling
- Walls
- Base
- Floor

2 Finish Number Where Different from General Room Finish Designation

3 Door Number, See Schedule Sheet A-4

FD Floor Drain - See Plumbing

CJ Control Joint

DS Down Spout

HB Hose Bib

Lt Louver Type, See Schedule Sheet A-4

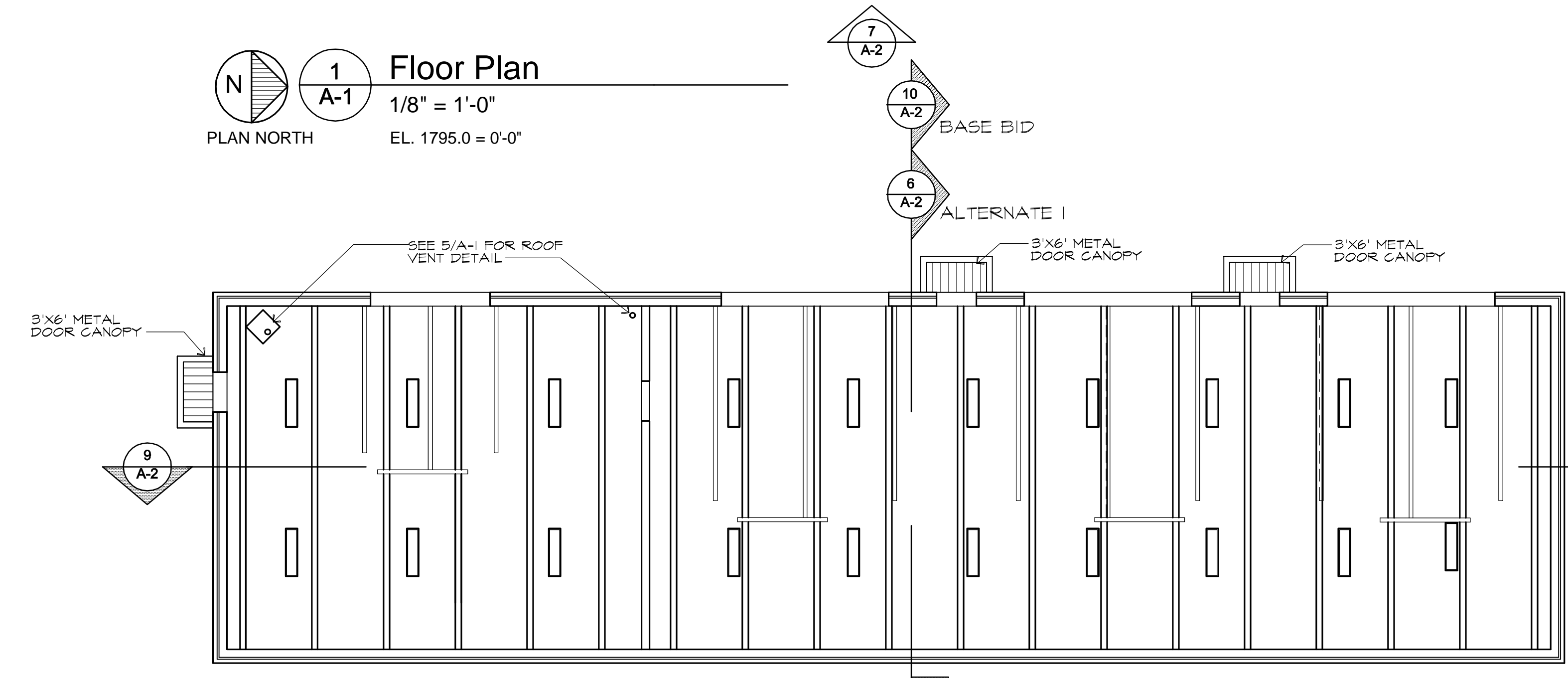
Symbols Legend

- SECTION#/SHEET LOCATION
- ELEVATION#/SHEET LOCATION
- DETAIL#/SHEET LOCATION
- ELEVATION REFERENCE

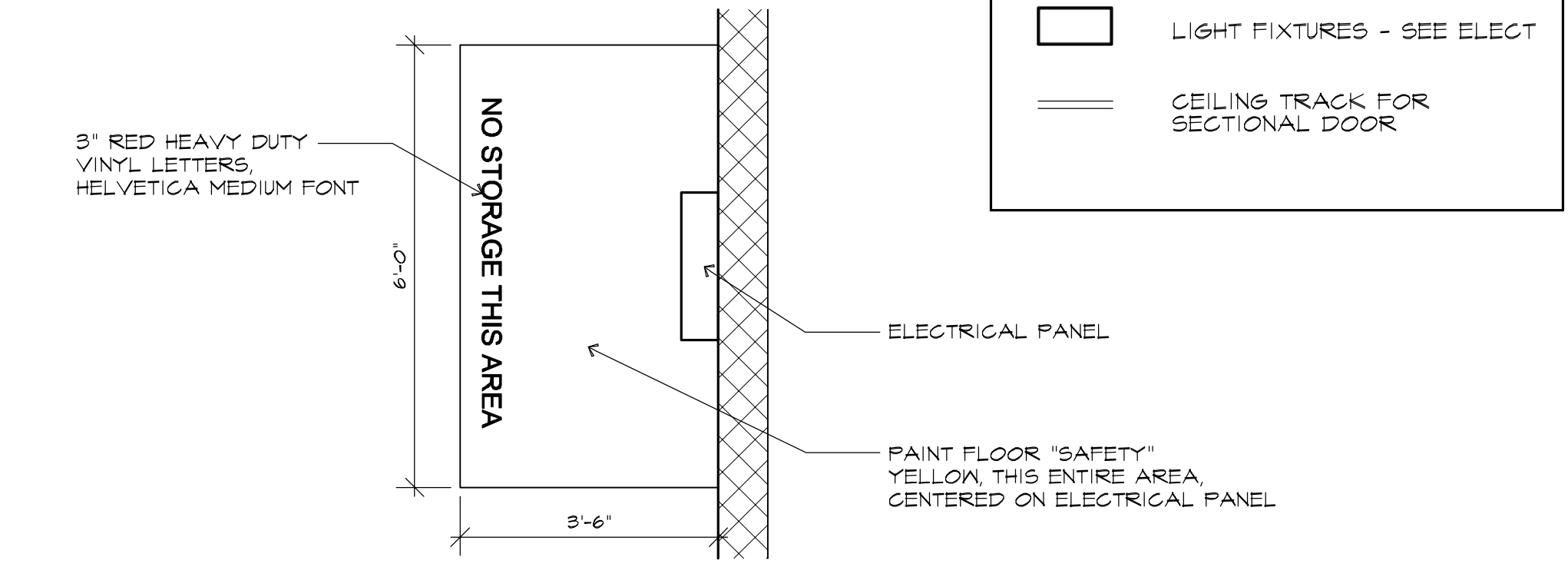
Ceiling Plan Legend

- UNIT HEATER - SEE MECH
- LIGHT FIXTURES - SEE ELECT
- CEILING TRACK FOR SECTIONAL DOOR

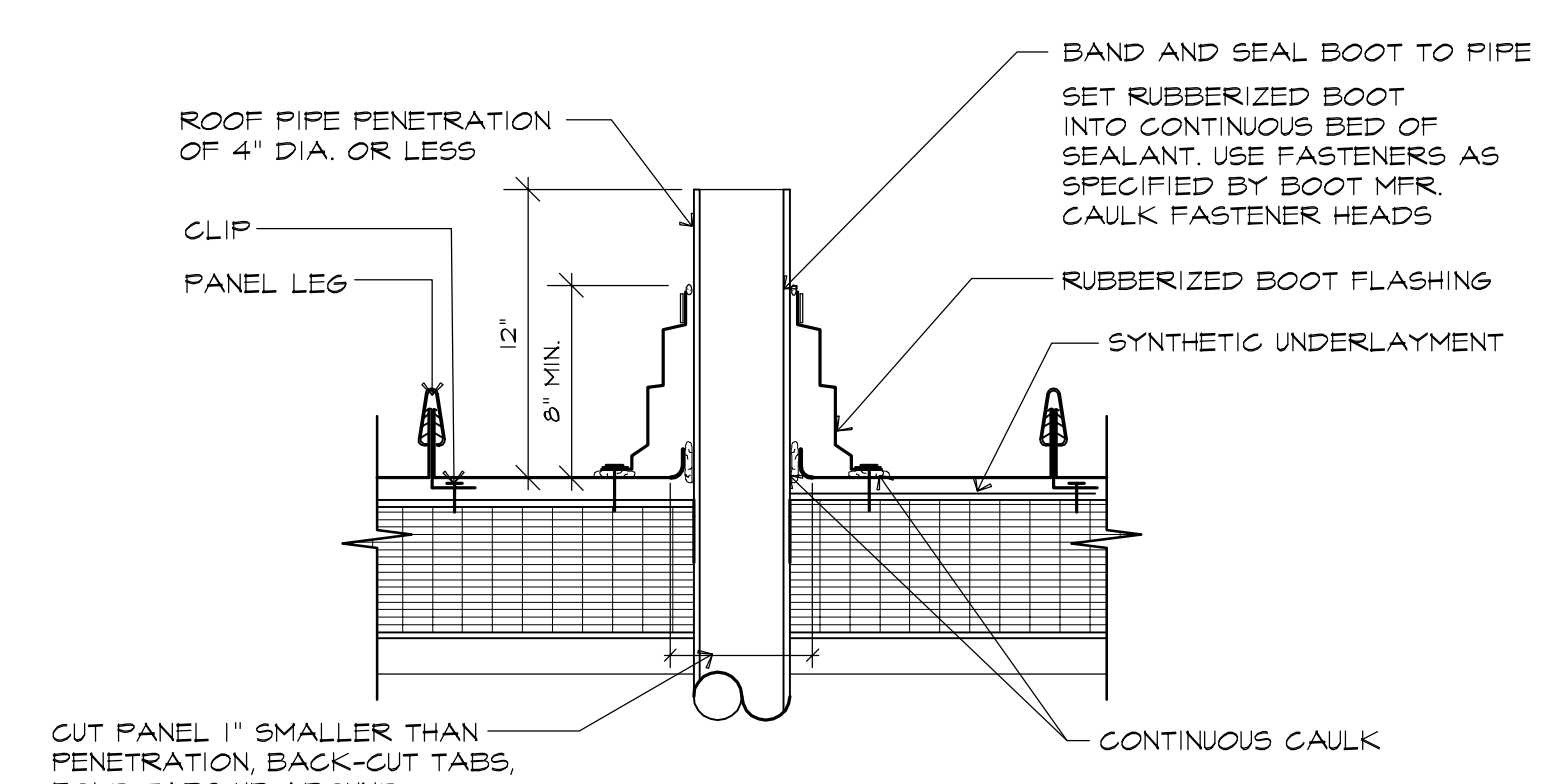
1 Floor Plan
1/8" = 1'-0"
PLAN NORTH
EL. 1795.0 = 0'-0"



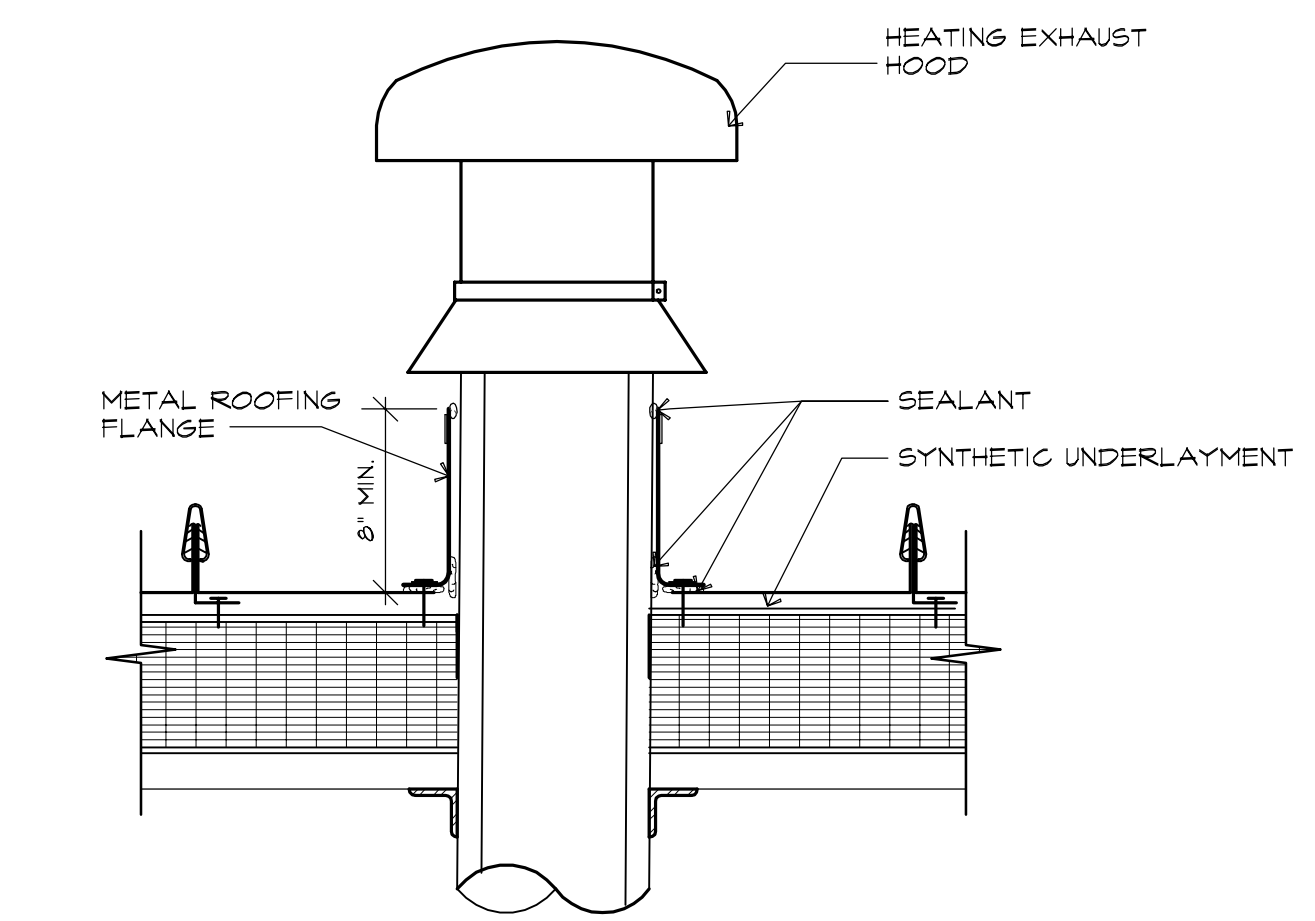
2 Reflected Ceiling Plan
1/8" = 1'-0"
PLAN NORTH



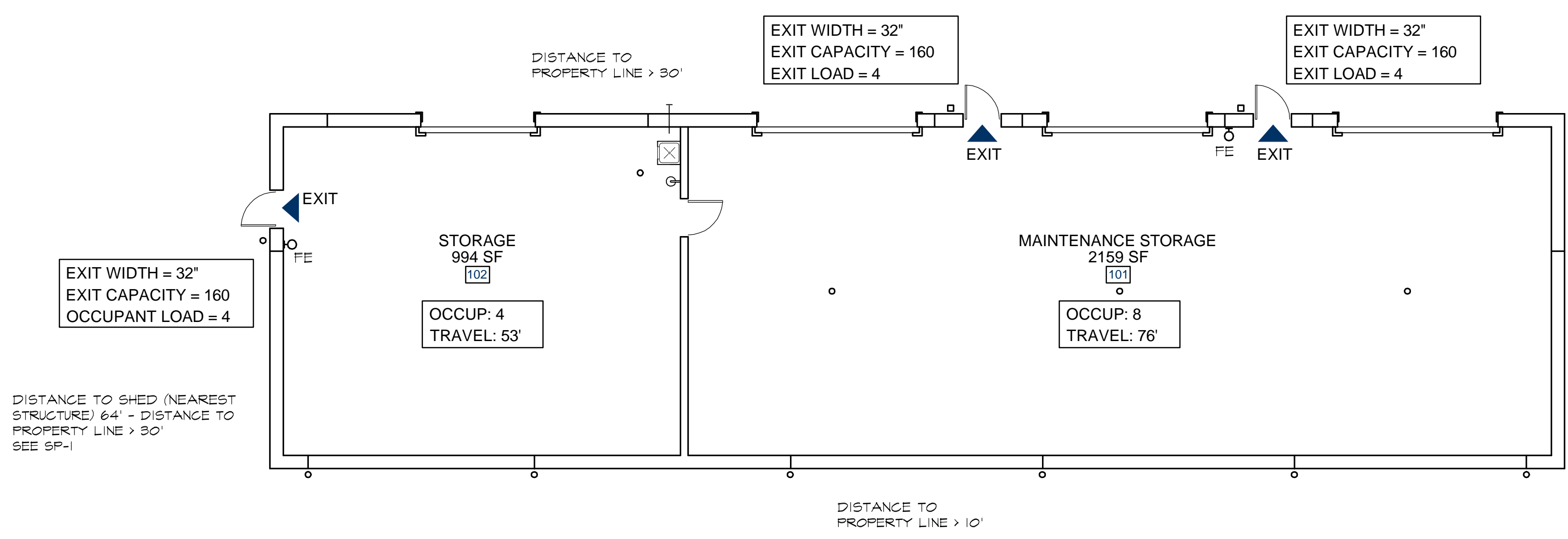
3 Clear Area Detail
1/2" = 1'-0"



4 Typ. Pipe Penetration Detail
1 1/2" = 1'-0"



5 Typ. Heater Exhaust Detail
1 1/2" = 1'-0"



3 Life Safety Plan
1/8" = 1'-0"
PLAN NORTH

Life Safety Plan Legend

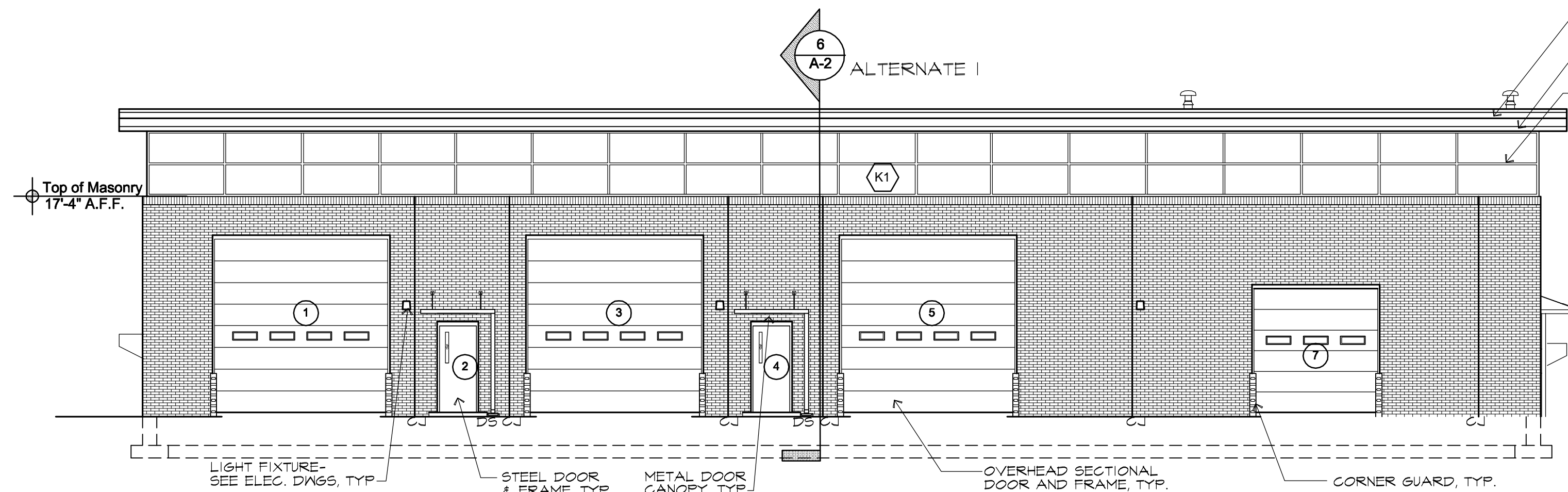
- EXIT
- FE FIRE EXTINGUISHER
- OCCUP: 8 ← OCCUPANT LOAD
- TRAVEL: 76' ← MAX. TRAVEL DISTANCE

Life Safety Plan Notes

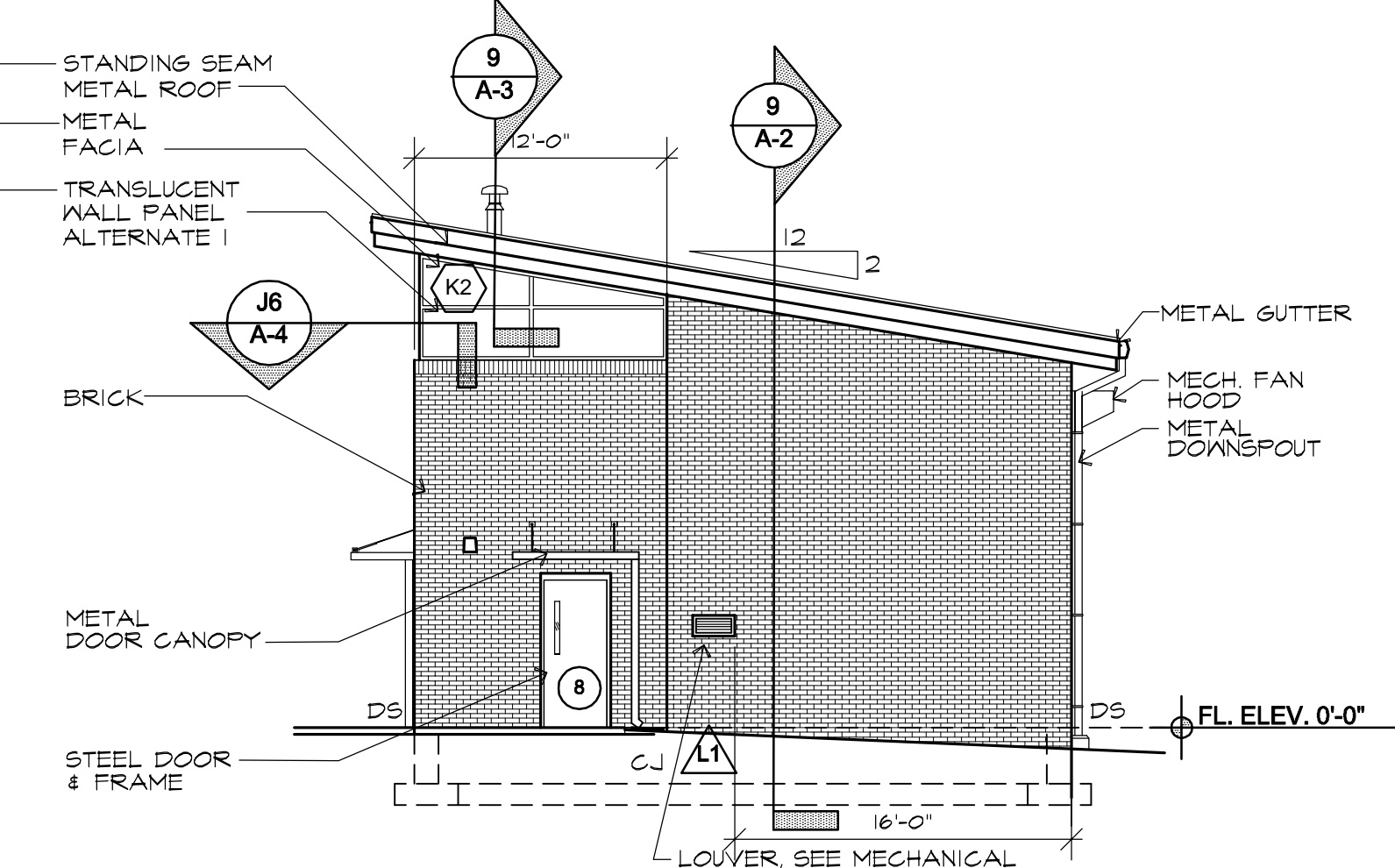
- REFER TO SITE PLAN, SP-1, FOR CONTINUATION OF EGRESS PATH.
- EXIT SIGNS NOT REQUIRED PER I.O.I., EXCEPTION 1, SPACES REQUIRING ONLY ONE EXIT.
- PANIC HARDWARE NOT REQUIRED PER 1008.1.0.

Floor Plan, Reflected Ceiling Plan, Life Safety Plan

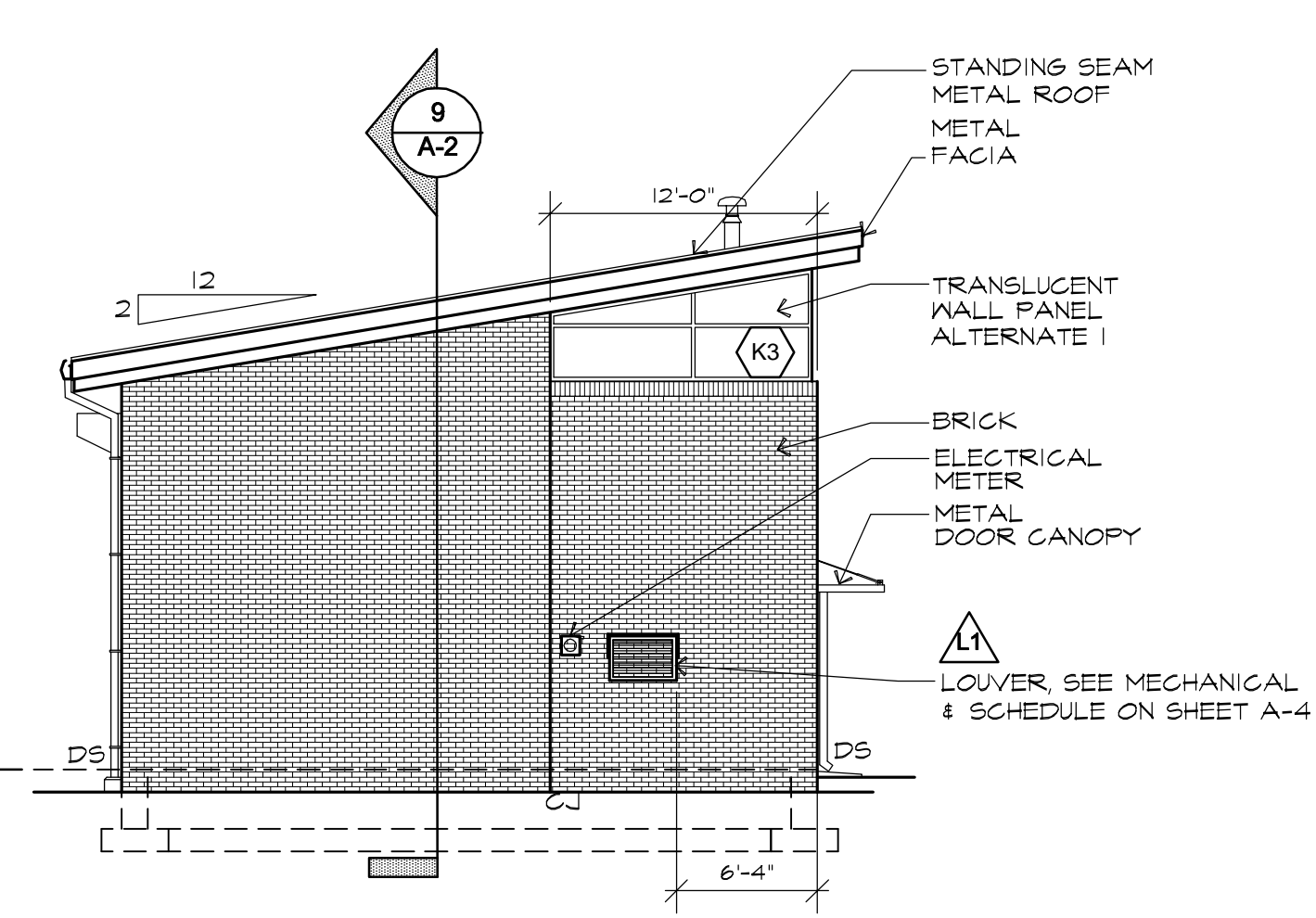




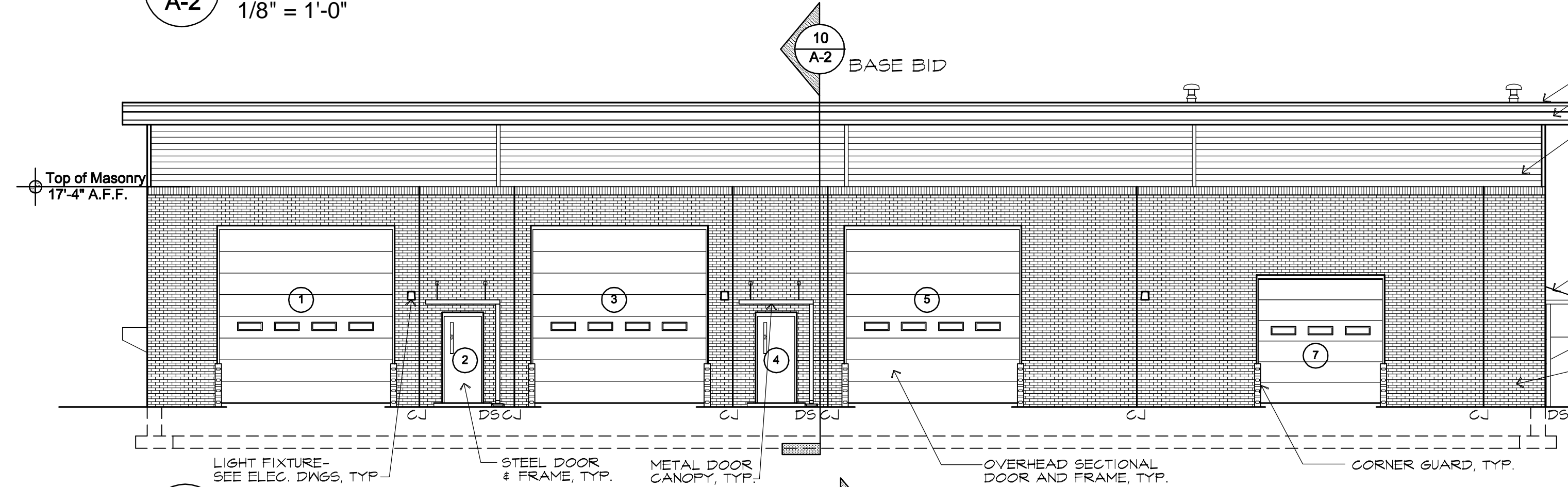
1 West Elevation - Alternate 1
A-2 1/8" = 1'-0"



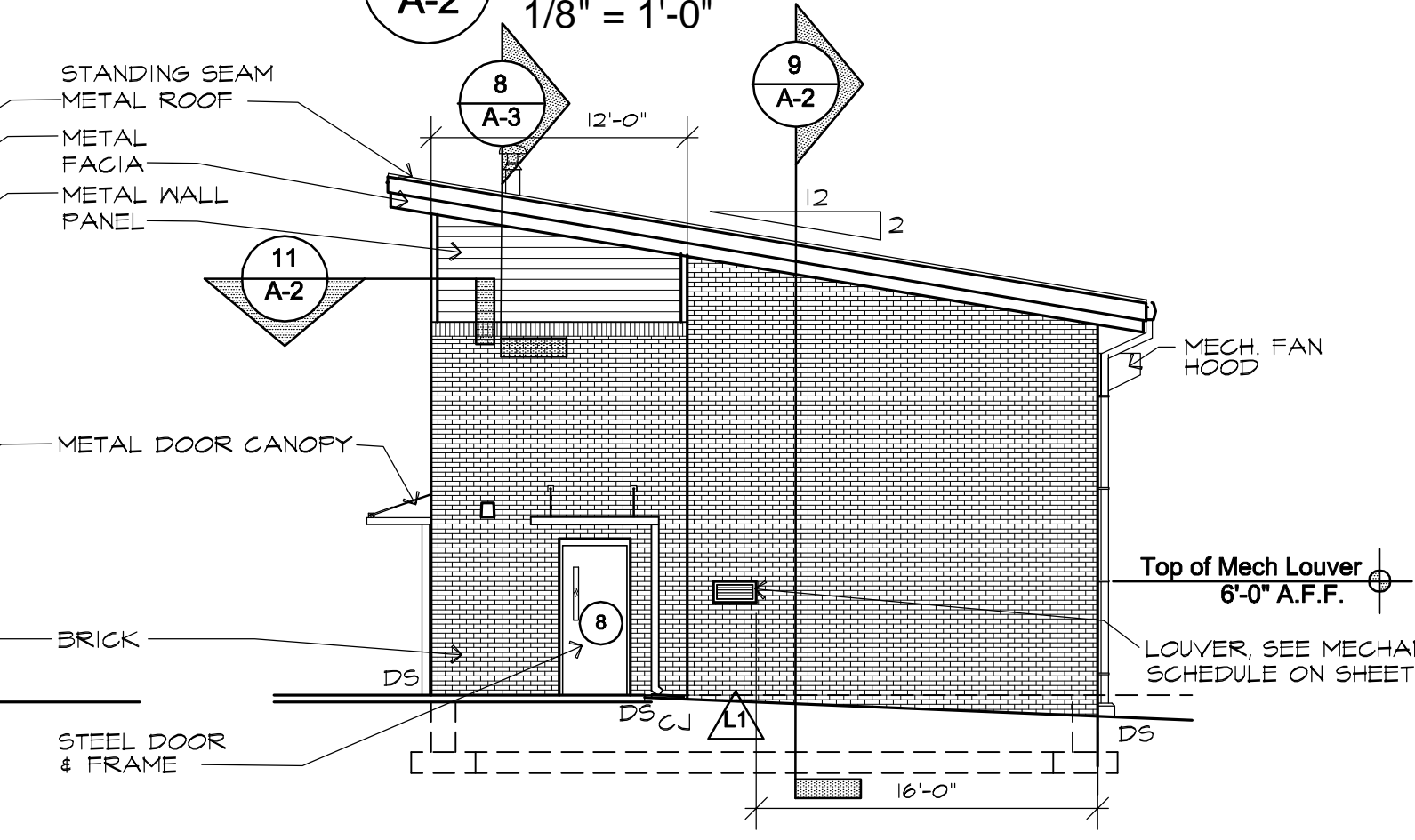
2 South Elevation - Alternate 1
A-2 1/8" = 1'-0"



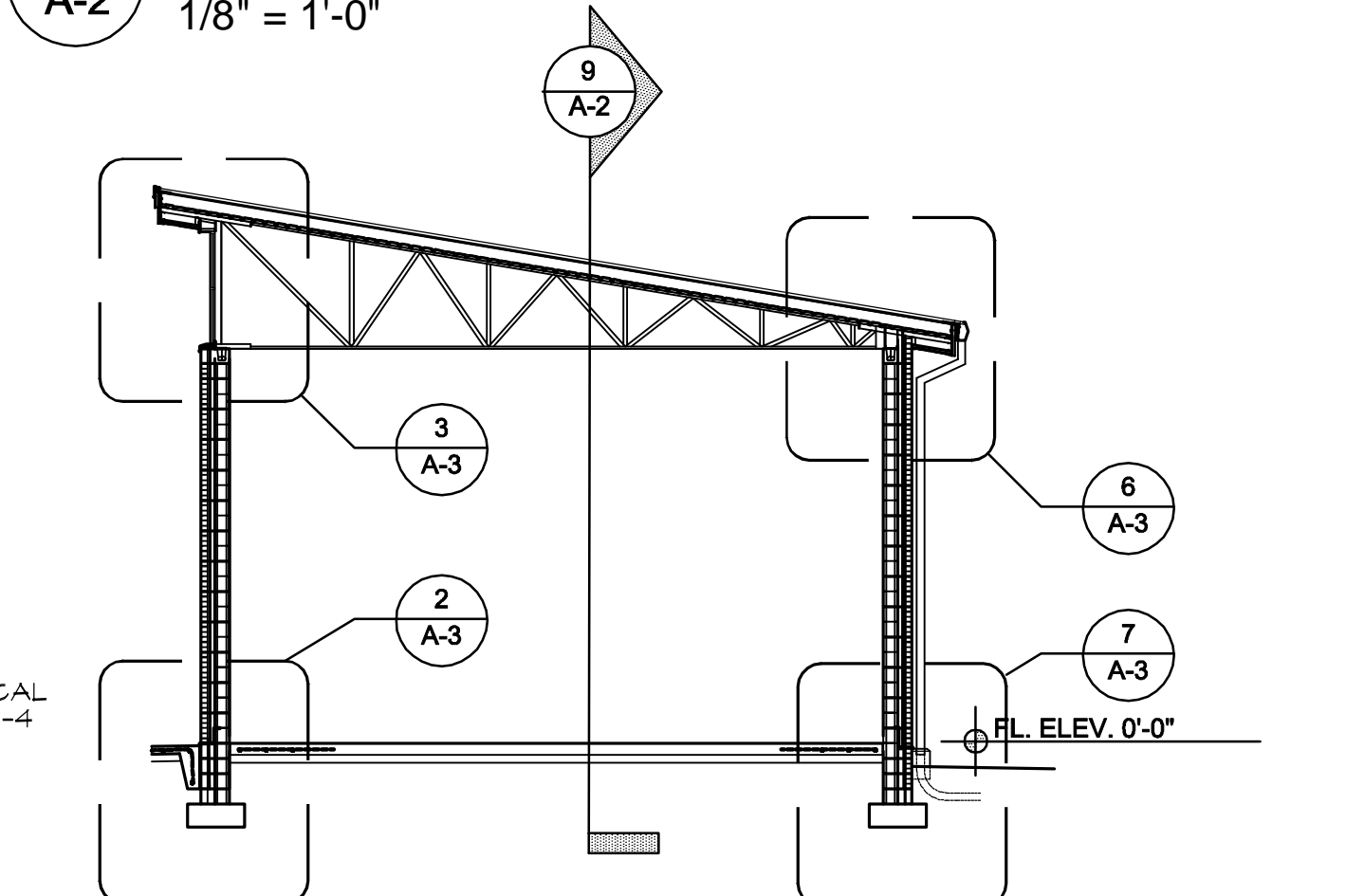
3 North Elevation - Alternate 1
A-2 1/8" = 1'-0"



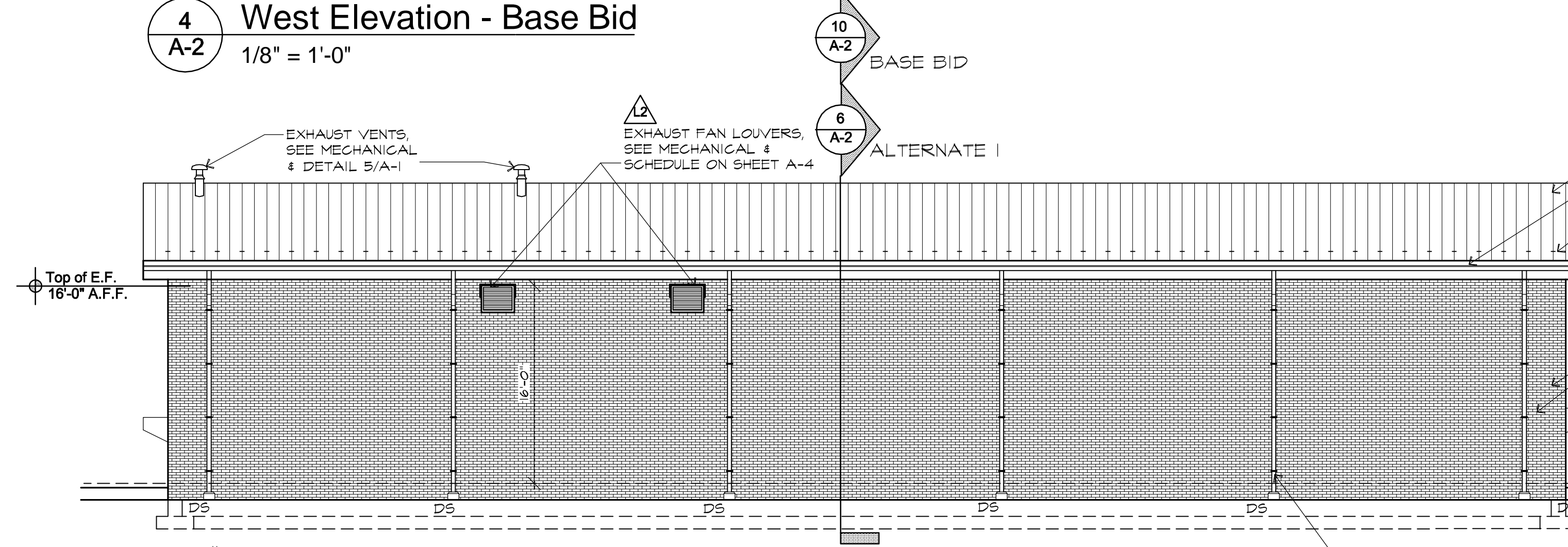
4 West Elevation - Base Bid
A-2 1/8" = 1'-0"



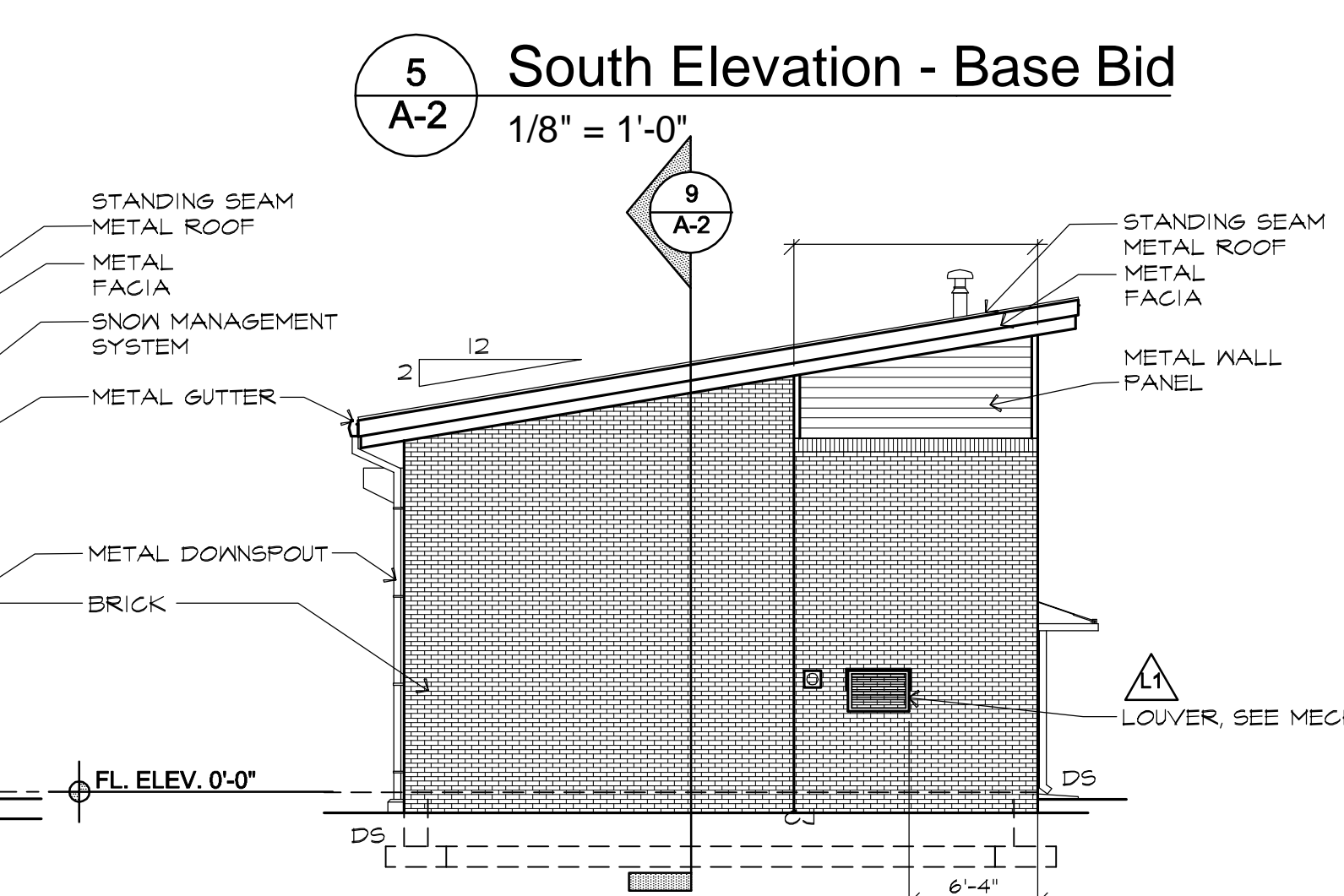
5 South Elevation - Base Bid
A-2 1/8" = 1'-0"



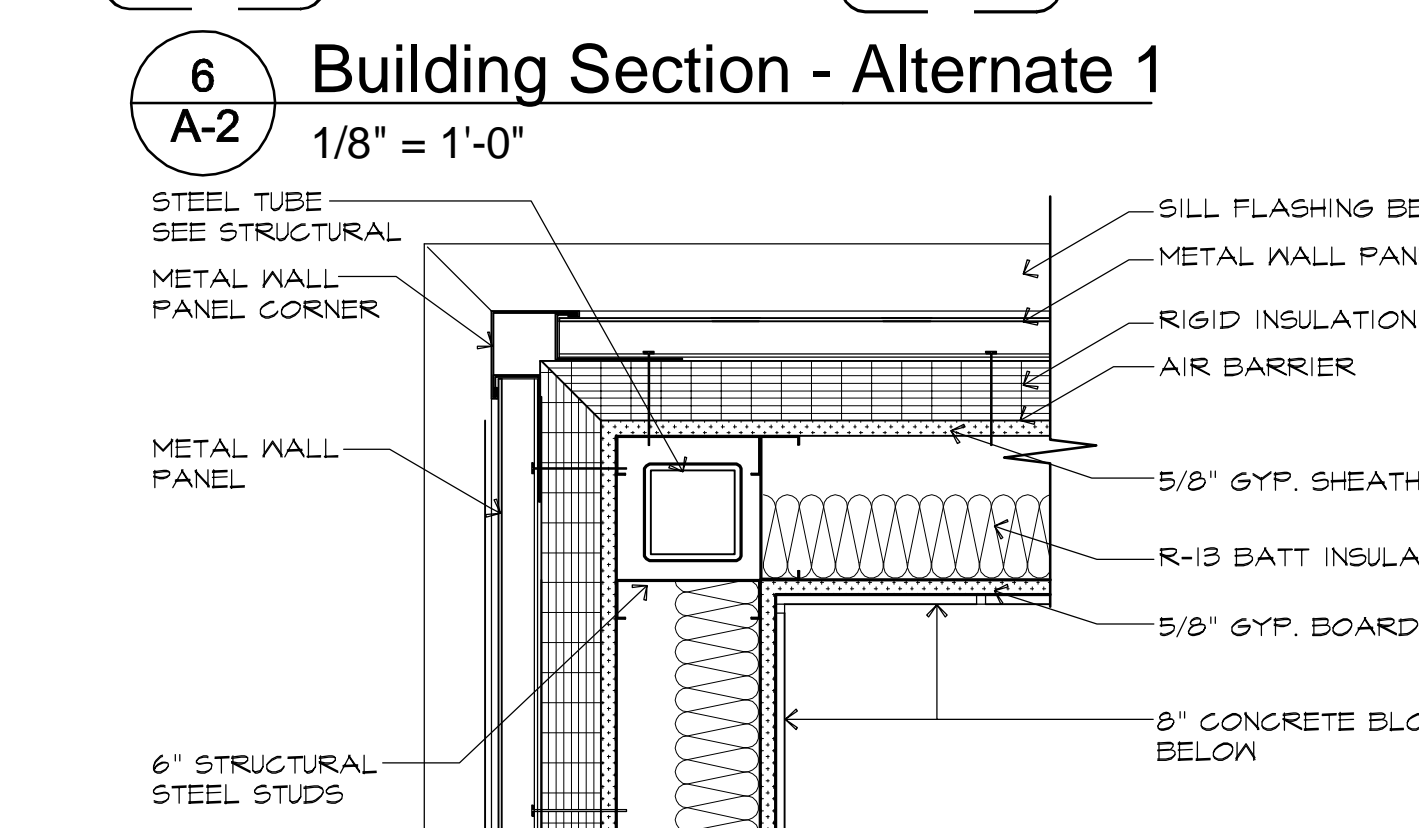
6 Building Section - Alternate 1
A-2 1/8" = 1'-0"



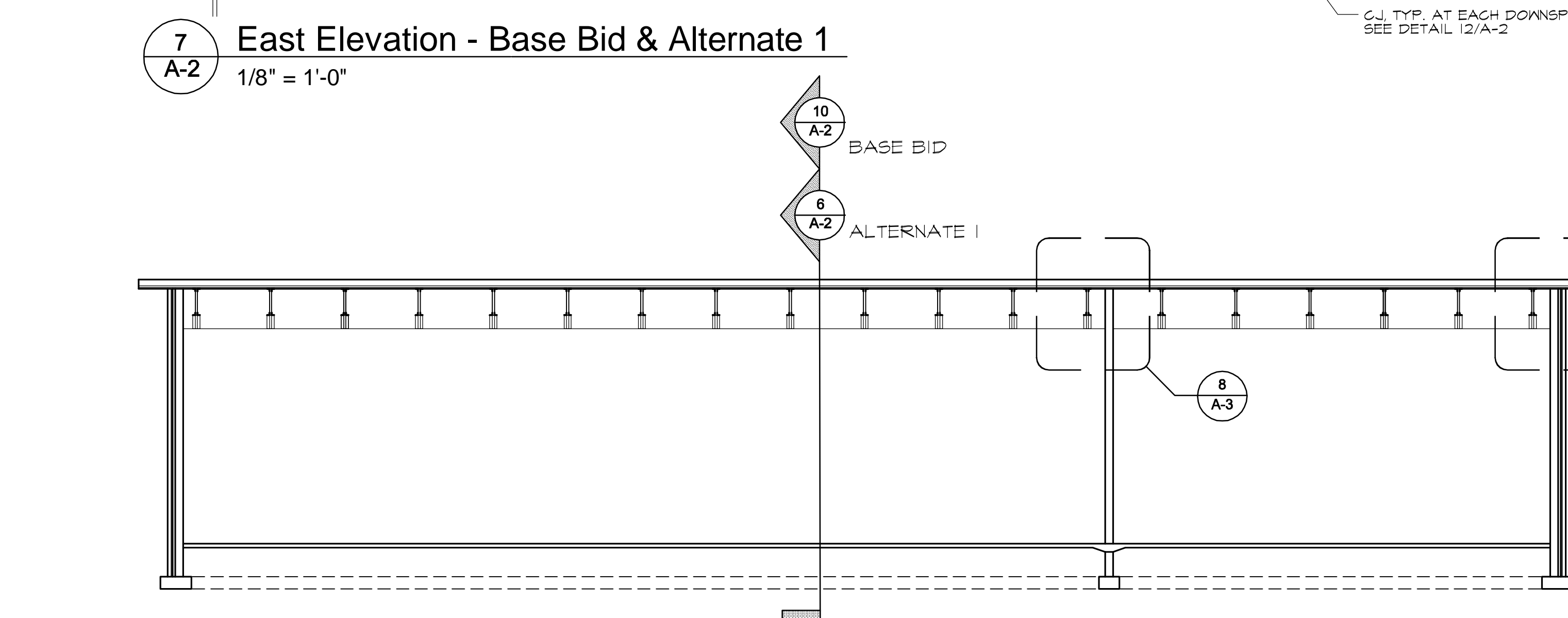
7 East Elevation - Base Bid & Alternate 1
A-2 1/8" = 1'-0"



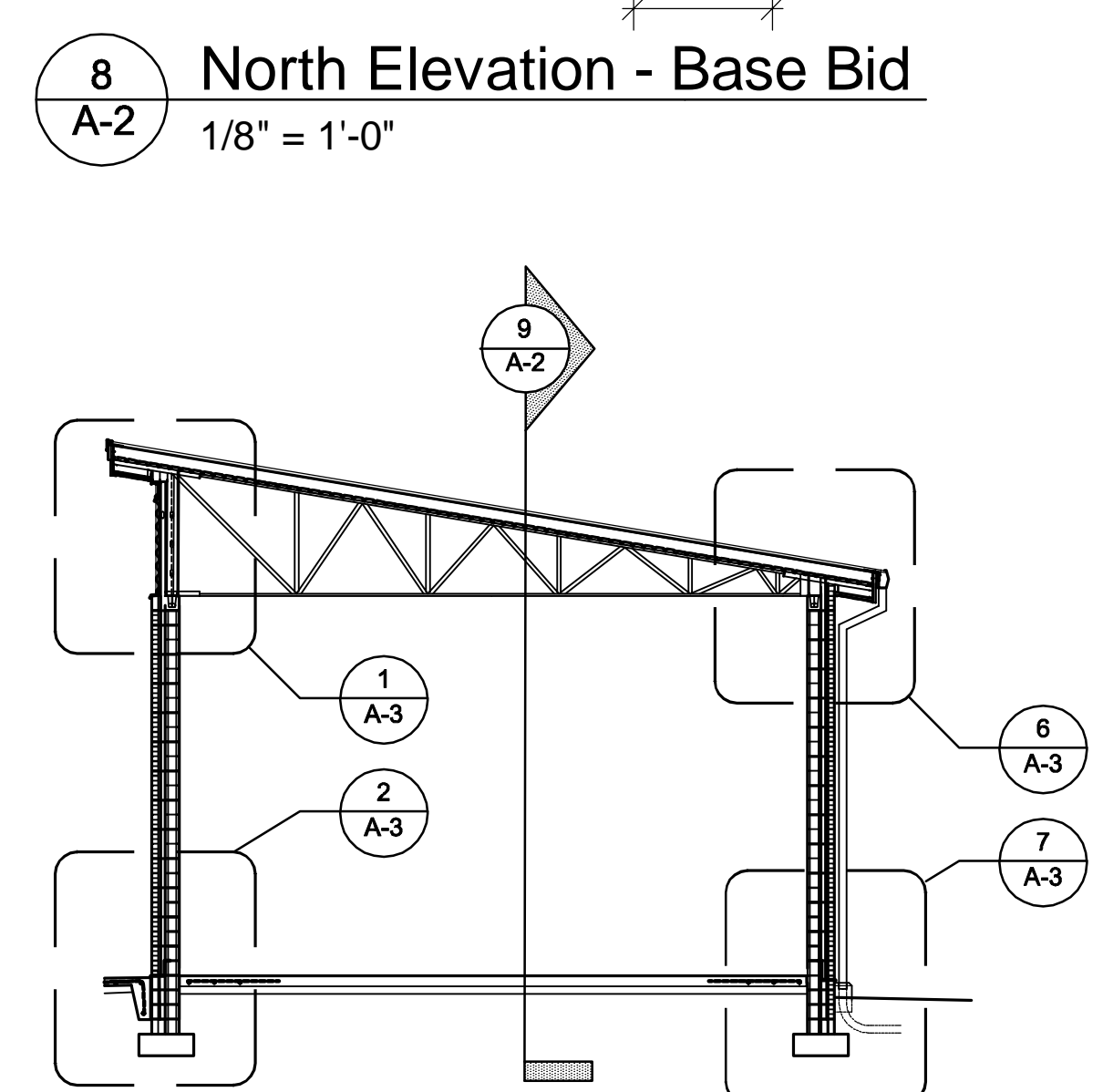
8 North Elevation - Base Bid
A-2 1/8" = 1'-0"



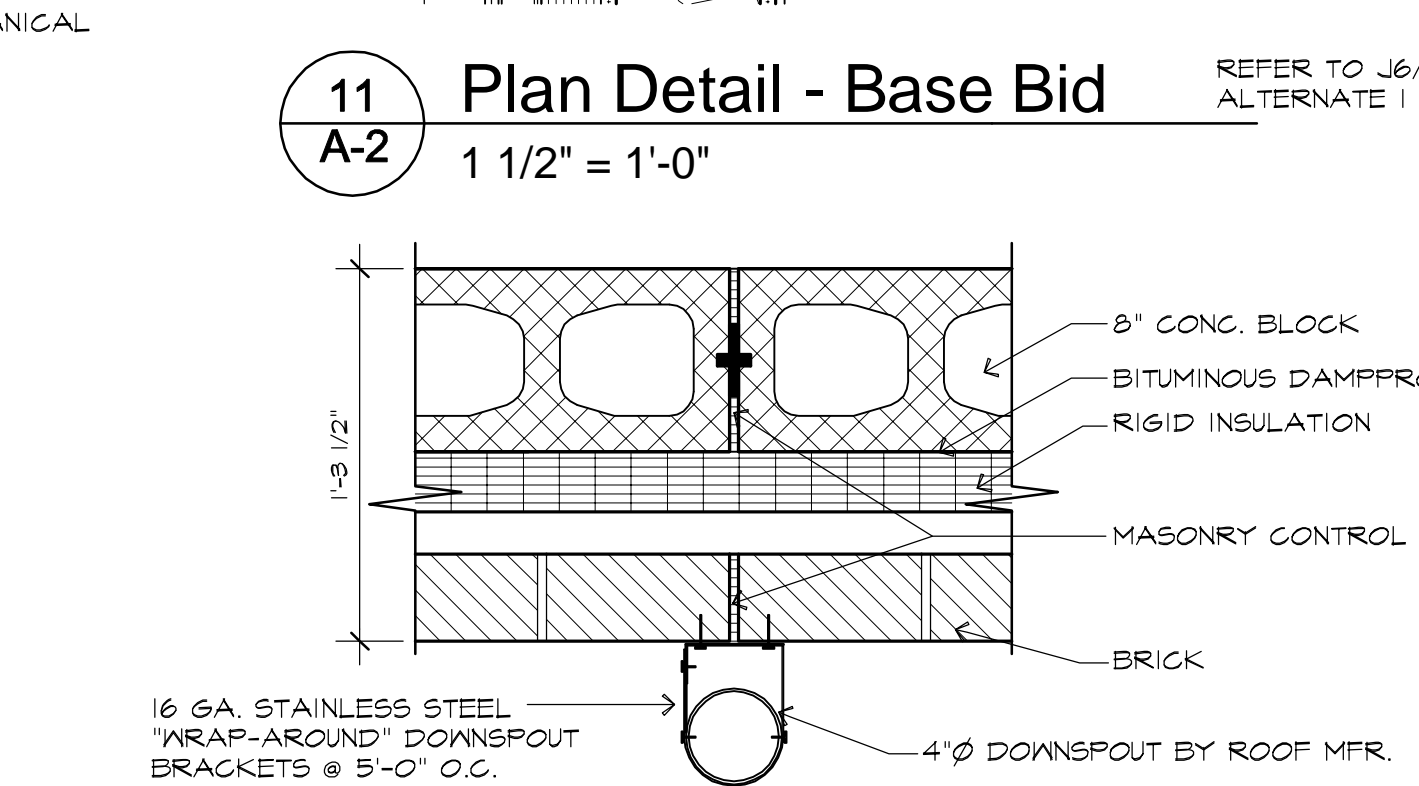
11 Plan Detail - Base Bid
A-2 1 1/2" = 1'-0"



9 Building Section - Base Bid & Alternate 1
A-2 1/8" = 1'-0"



10 Building Section - Base Bid
A-2 1/8" = 1'-0"

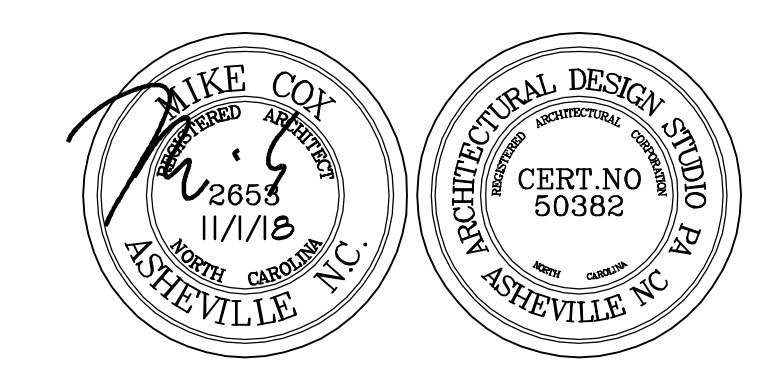


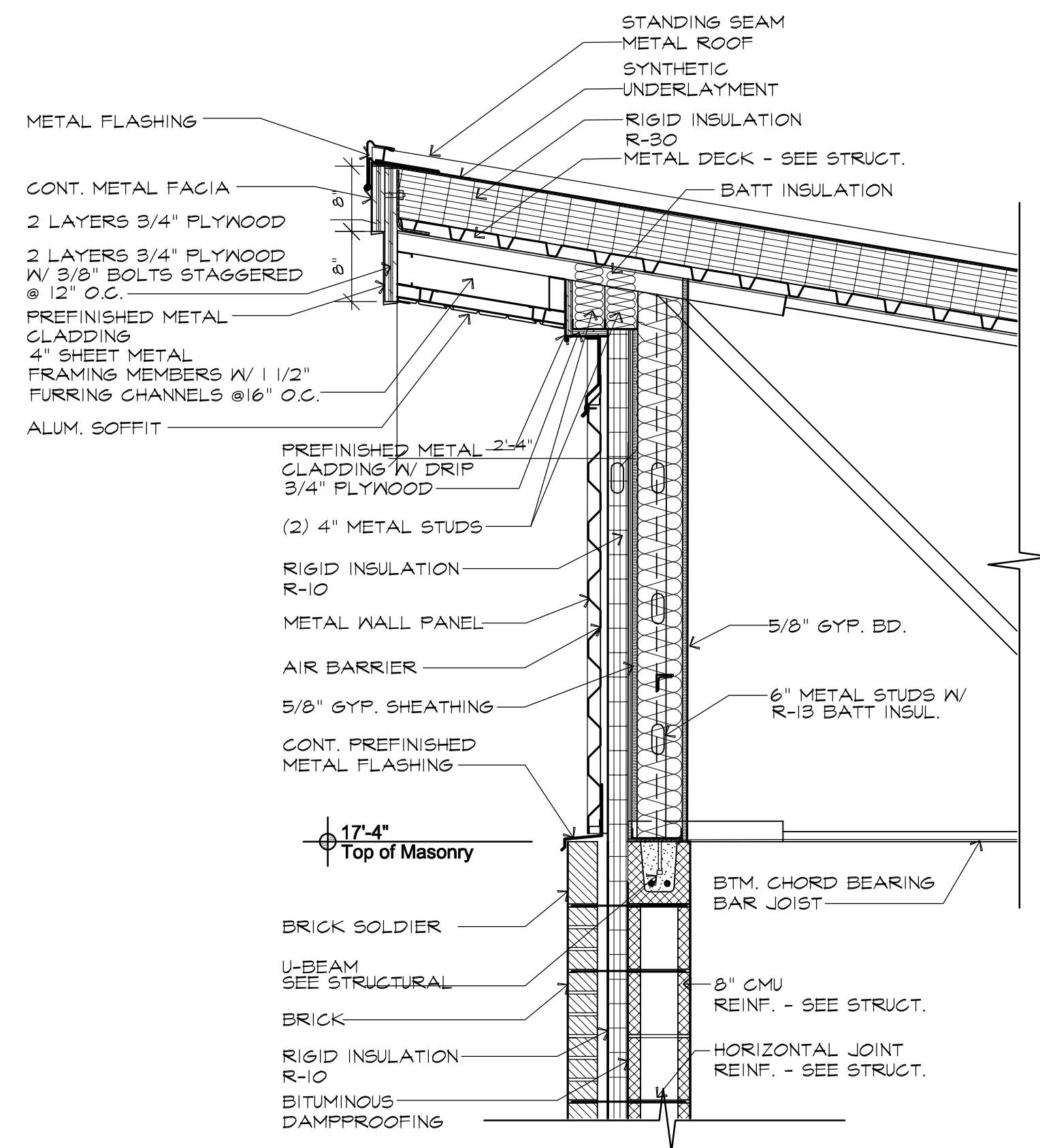
12 Typical CJ Detail
A-2 1-1/2" = 1'-0"

Exterior Elevations,
Building Sections

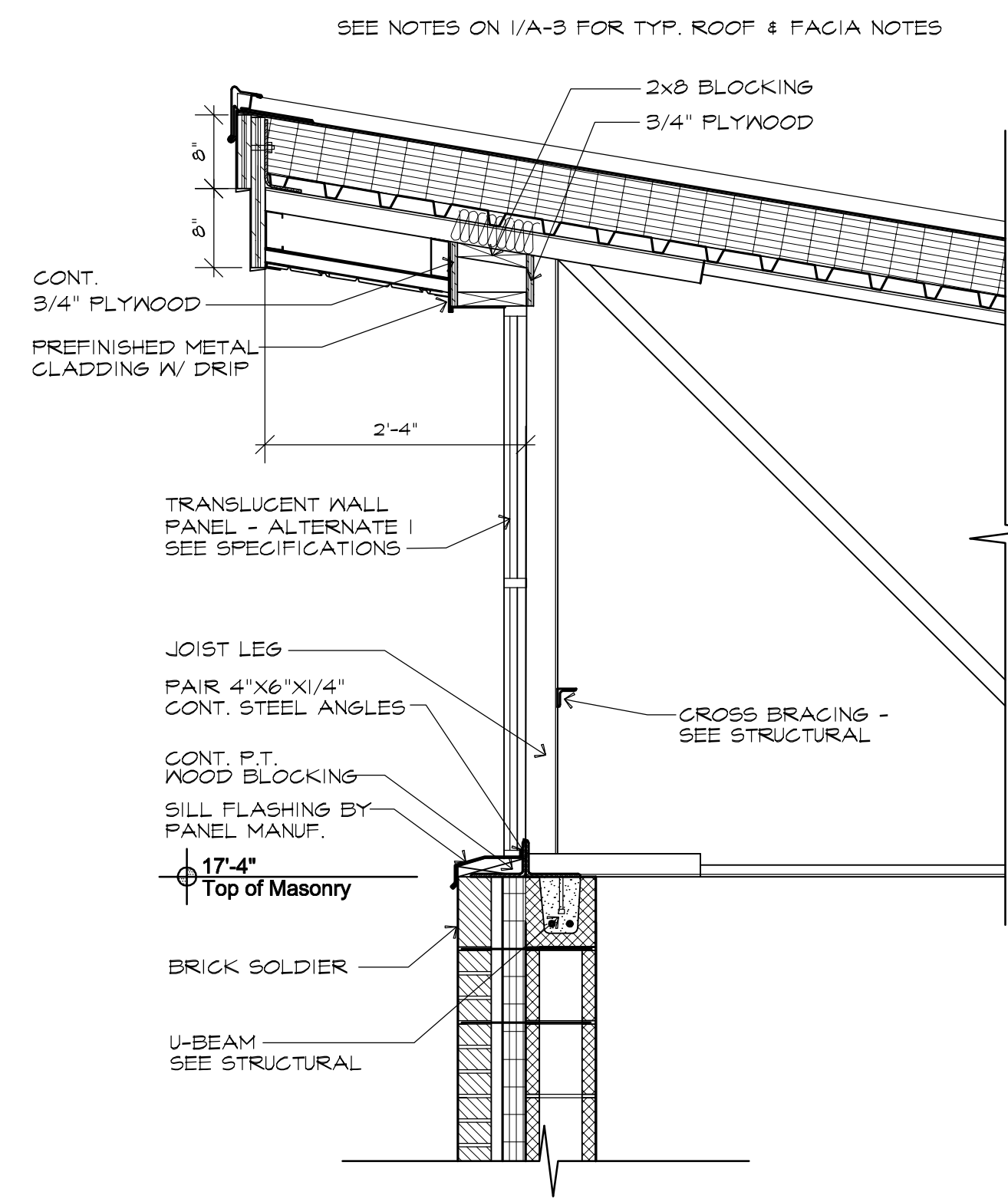
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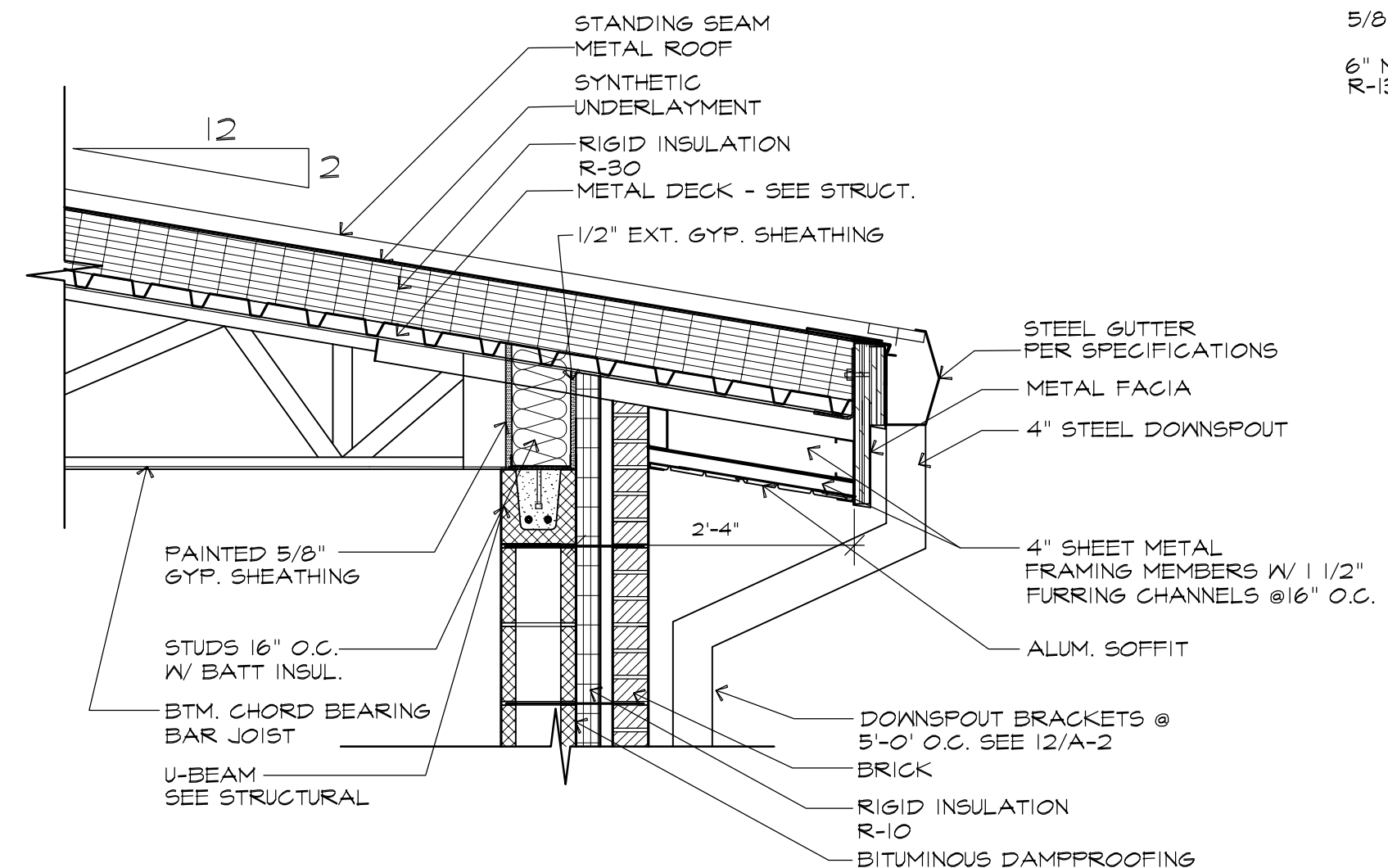




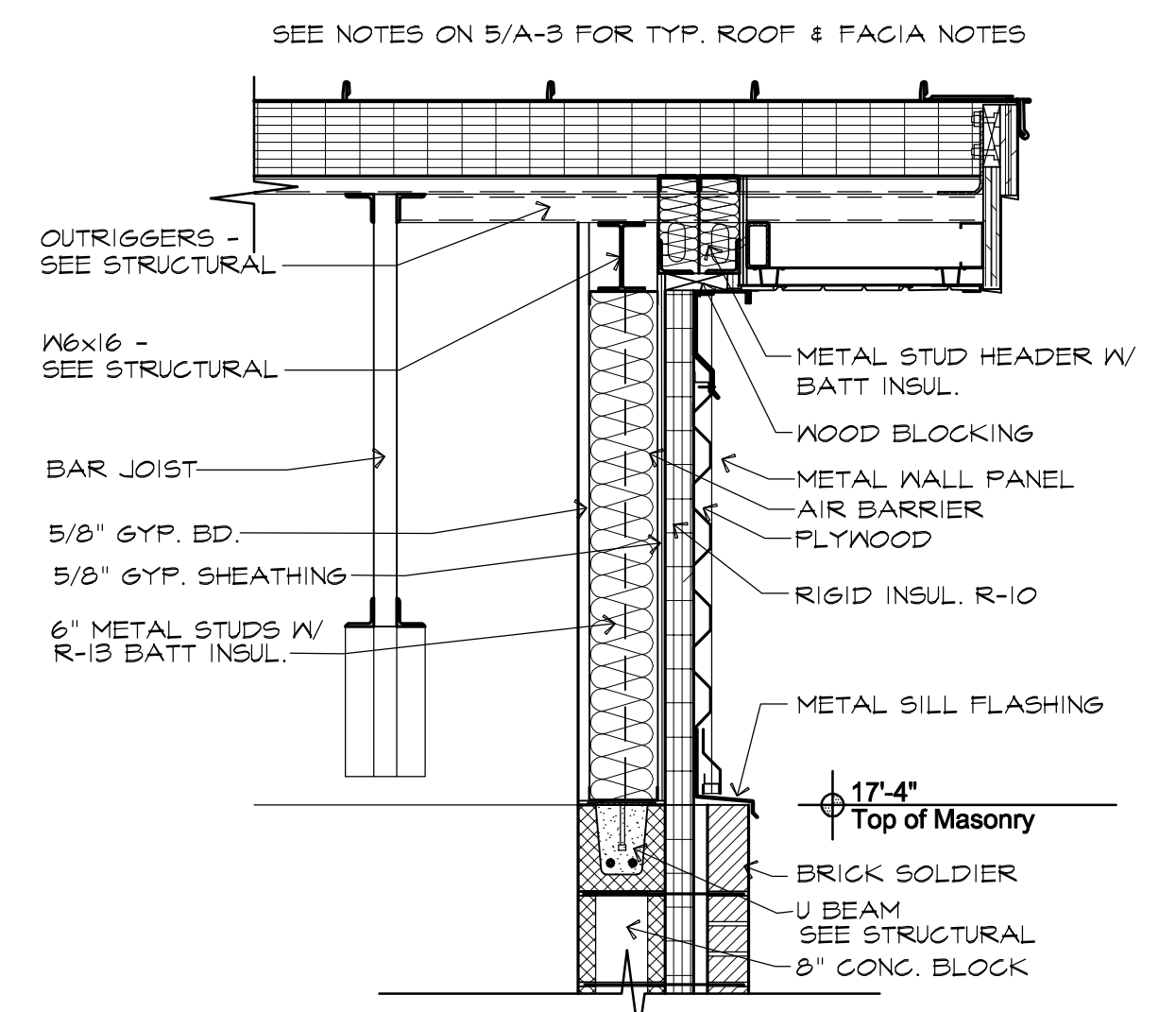
1 Wall Section - Base Bid
 A-3 3/4" = 1'-0"



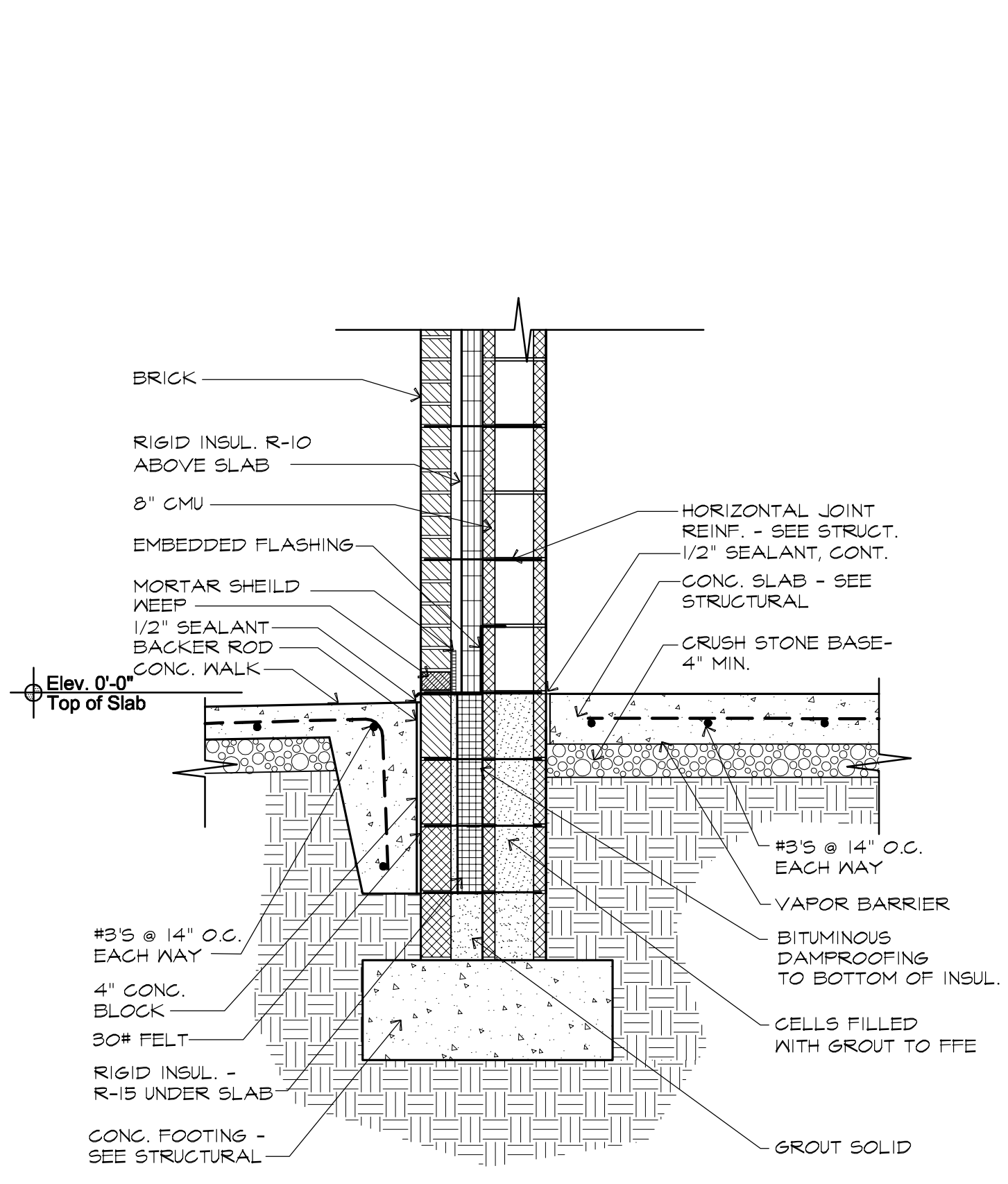
3 Wall Section - Alternate 1
 A-3 3/4" = 1'-0"



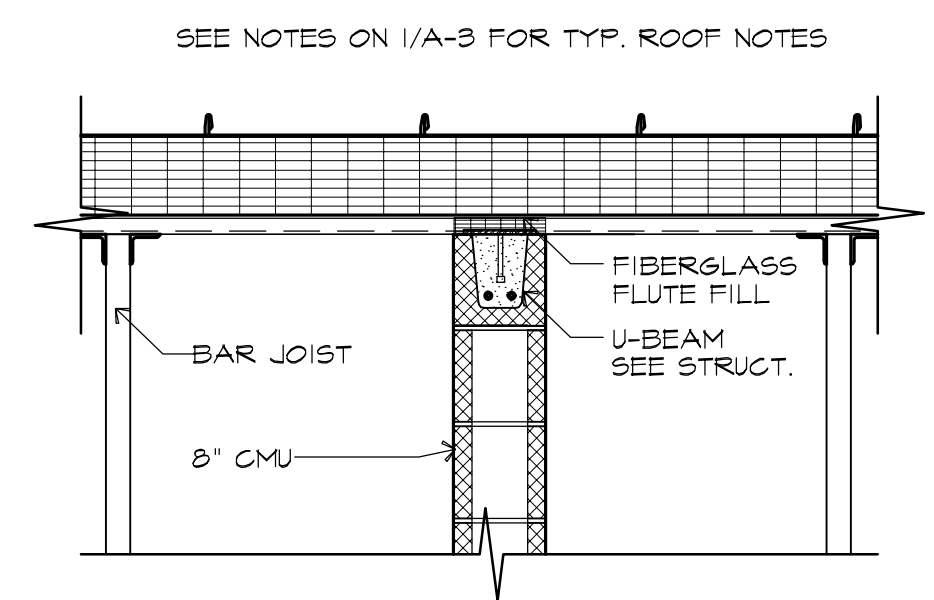
6 East Wall Section
 A-3 3/4" = 1'-0"



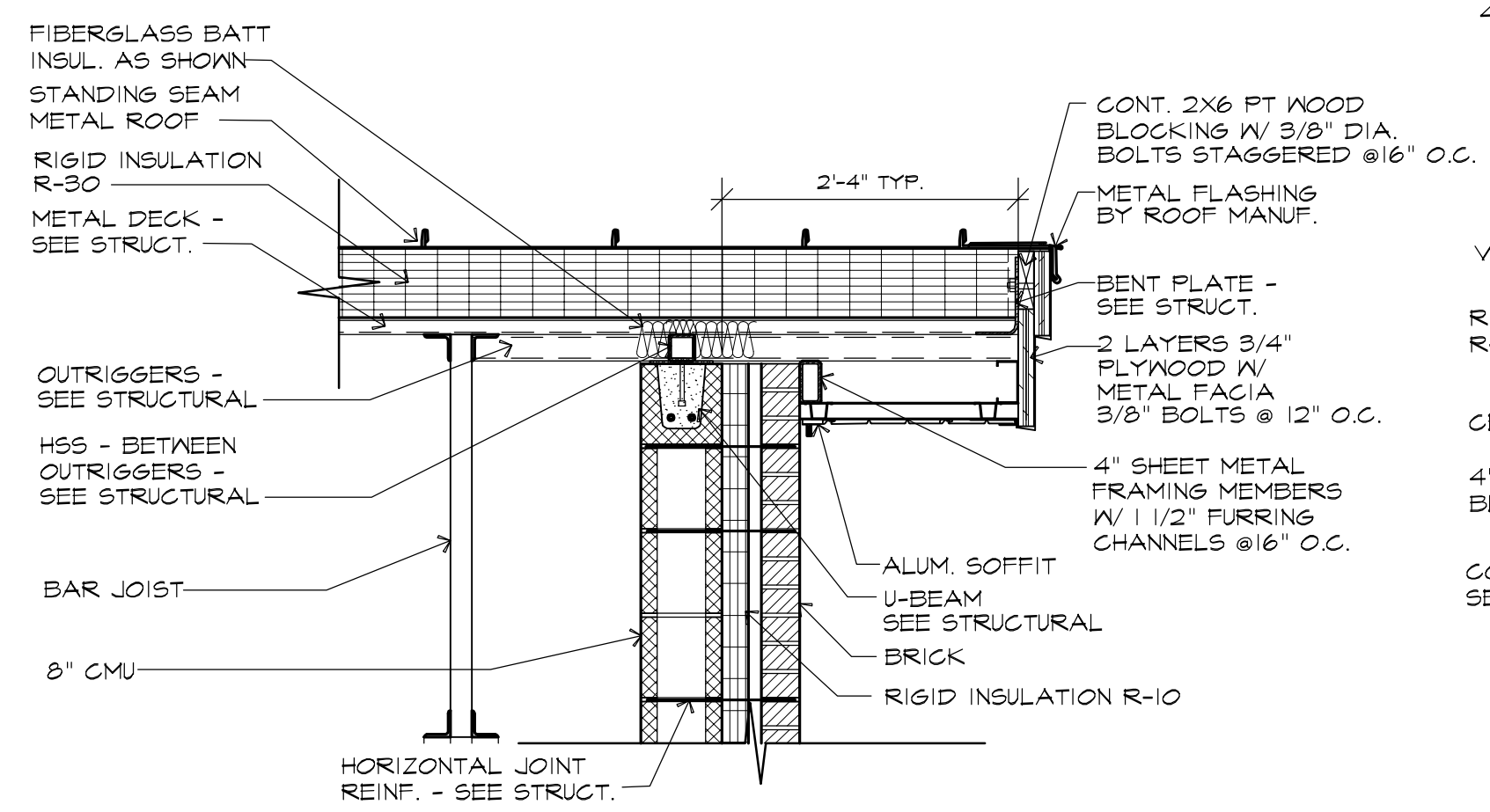
8 Base Bid Rake Section @ Metal Panel
 A-3 3/4" = 1'-0"



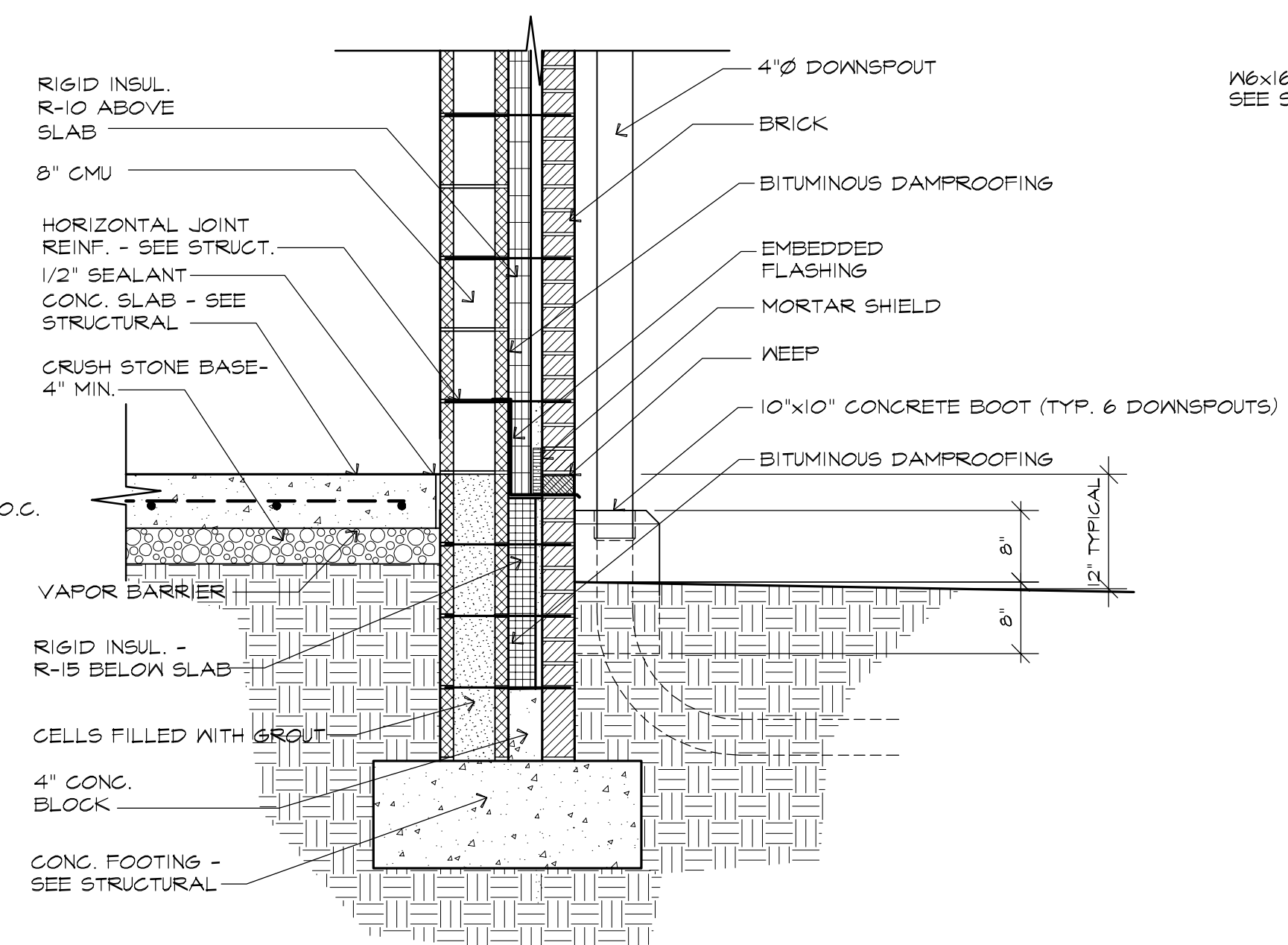
2 Wall Section - Base Bid
 A-3 3/4" = 1'-0"



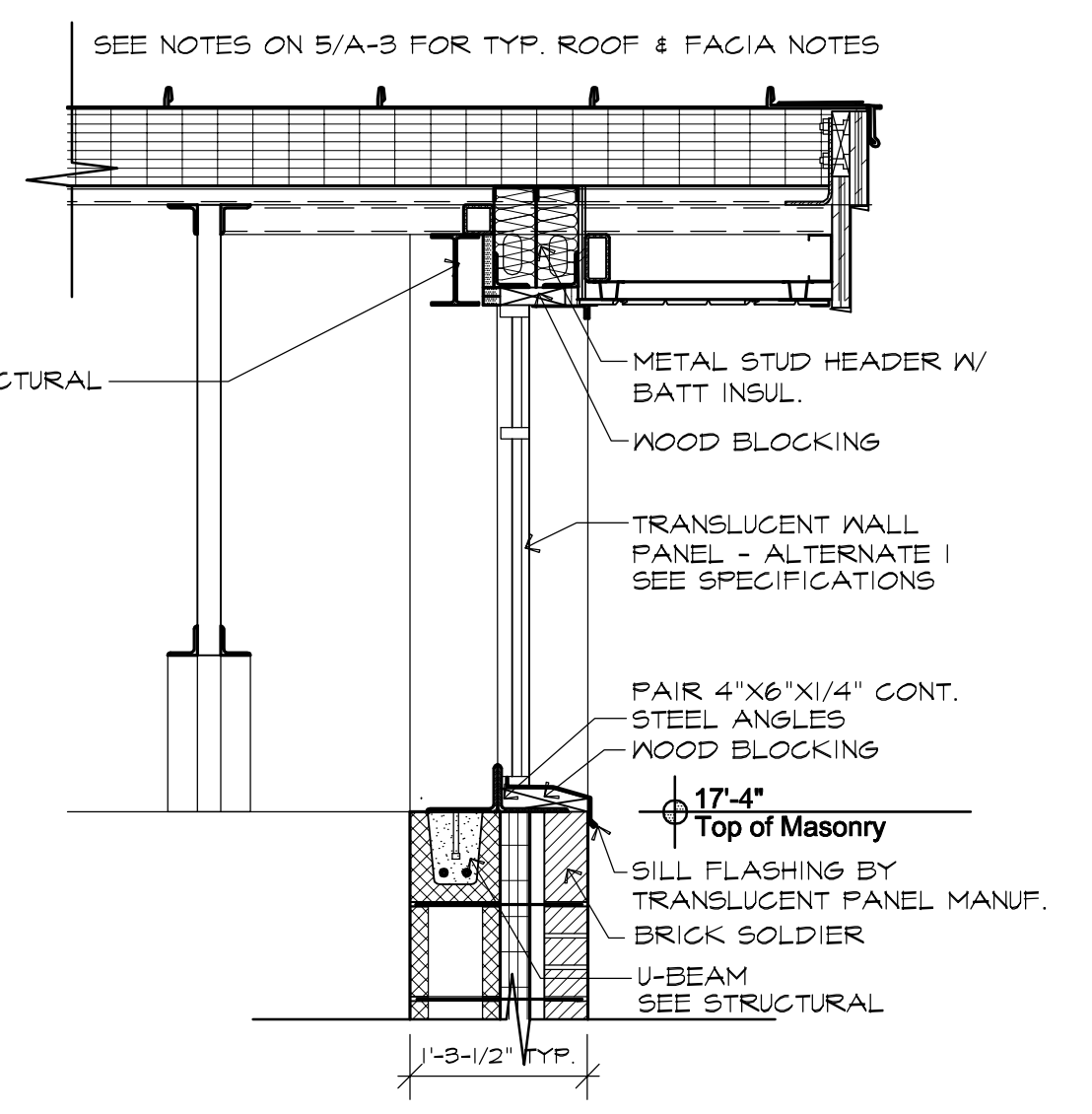
4 Internal Wall @ Roof
 A-3 3/4" = 1'-0"



5 Typical Rake Section
 A-3 3/4" = 1'-0"



7 East Wall Section
 A-3 3/4" = 1'-0"



9 Rake Section - Alternate 1
 A-3 3/4" = 1'-0"

Wall Sections & Details

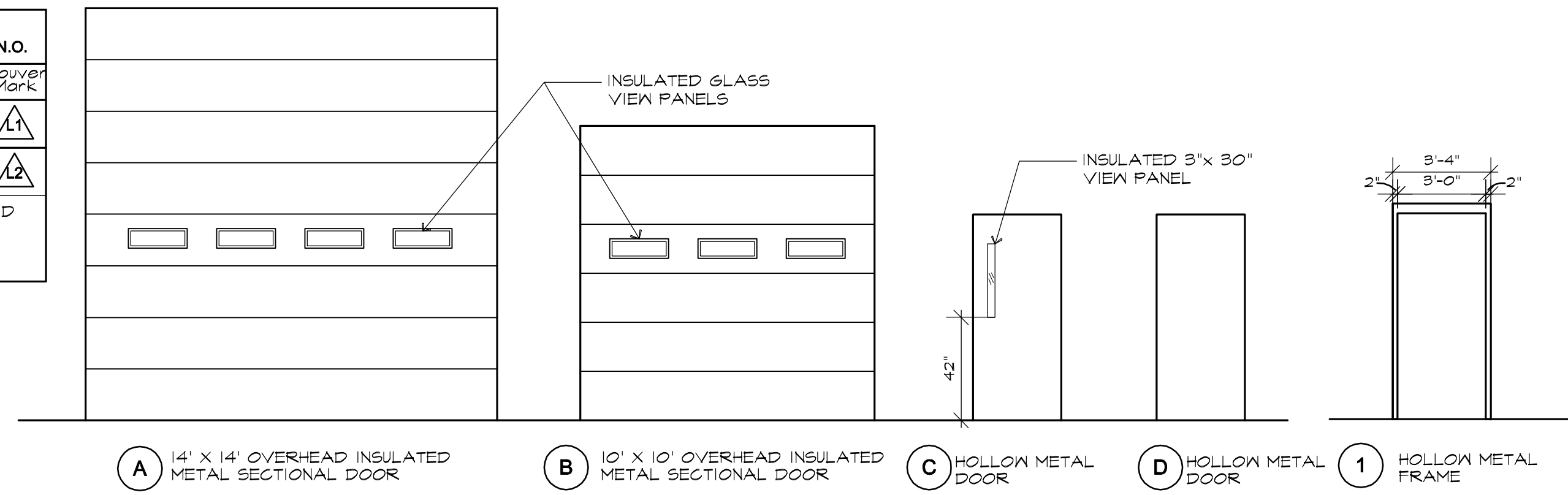
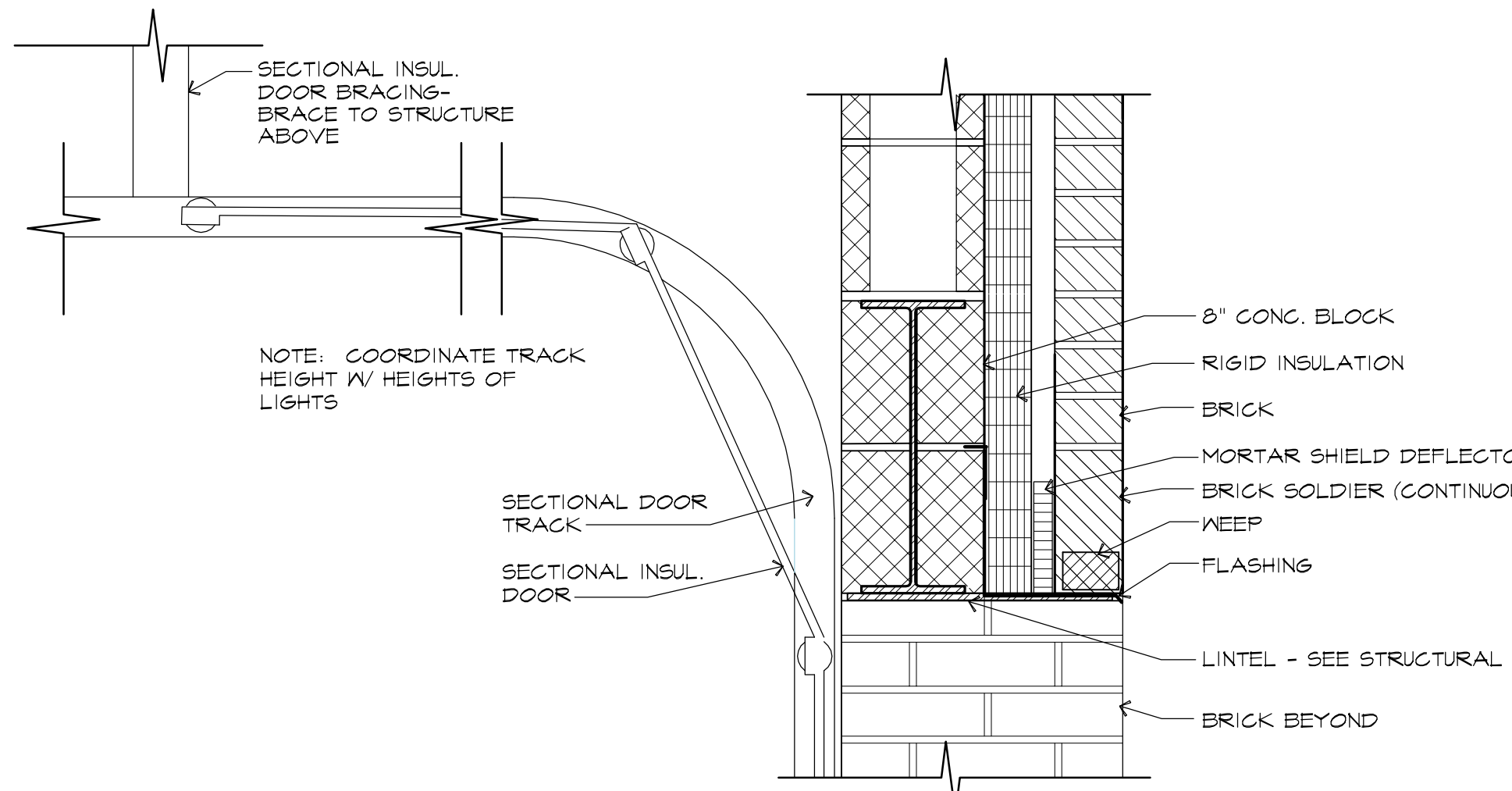


Louver Schedule						Head, Jamb & Sill Details are Referenced from this Sheet U.N.O.	
Louver Mark	Size W x H	Head	Jamb	Sill	Remarks	Louver Mark	
L1	SEE MECHANICAL	H4/A-4	J4/A-4	S3/A-4		L1	
L2	SEE MECHANICAL	H4/A-4 SIM	J4/A-4 SIM	S3/A-4 SIM	EF-1 & EF-2 ON MECH. DWGS.	L2	

1. REFER TO LINTEL SCHEDULES, SHEET S1.2 FOR STRUCTURAL COMPONENT OF REQUIRED LINTELS FOR EACH LOUVER.
2. LOUVERS ARE BY MECHANICAL, MED. BRONZE. REFER TO SHEET M1.0 FOR SIZES.

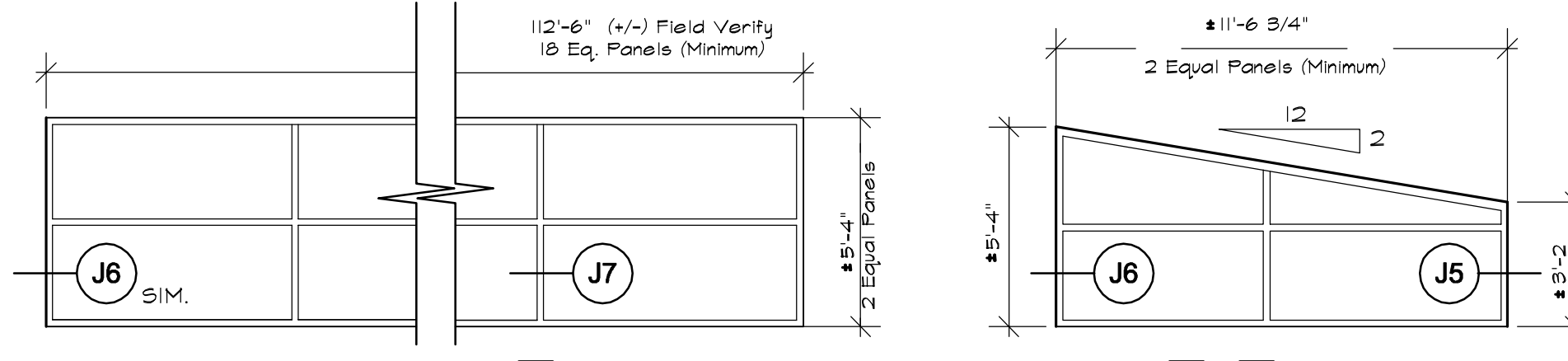
Door Schedule										Refer to Details This Sheet for Head Jamb & Sill Numbers Listed Below, u.n.o.		
Door No.	Size	Door Type	Frame Type	Head	Jamb	Sill	Remarks	Label Min.	HDA	Door No.		
1	14'-0" x 14'-0"	A		H1/A-4	J1/A-4	S1/A-4	INSUL. OH SECT. DOOR	-	1	1		
2	3'-0" x 7'-0" x 1-3/4"	C	I	H2/A-4	J2/A-4	S2/A-4		-	2	2		
3	14'-0" x 14'-0"	A		H1/A-4	J1/A-4	S1/A-4	INSUL. OH SECT. DOOR		1	3		
4	3'-0" x 7'-0" x 1-3/4"	C	I	H2/A-4	J2/A-4	S2/A-4			2	4		
5	14'-0" x 14'-0"	A		H1/A-4	J1/A-4	S1/A-4	INSUL. OH SECT. DOOR		1	5		
6	3'-0" x 7'-0" x 1-3/4"	D	I	H3/A-4	J3/A-4				3	6		
7	10'-0" x 10'-0"	B		H1/A-4	J1/A-4	S1/A-4	INSUL. OH SECT. DOOR		1	7		
8	3'-0" x 7'-0" x 1-3/4"	C	I	H2/A-4	J2/A-4	S2/A-4			2	8		

Louver Types
Scale: 1/4"=1'-0"



Door Types
Scale 1/4" = 1'-0"

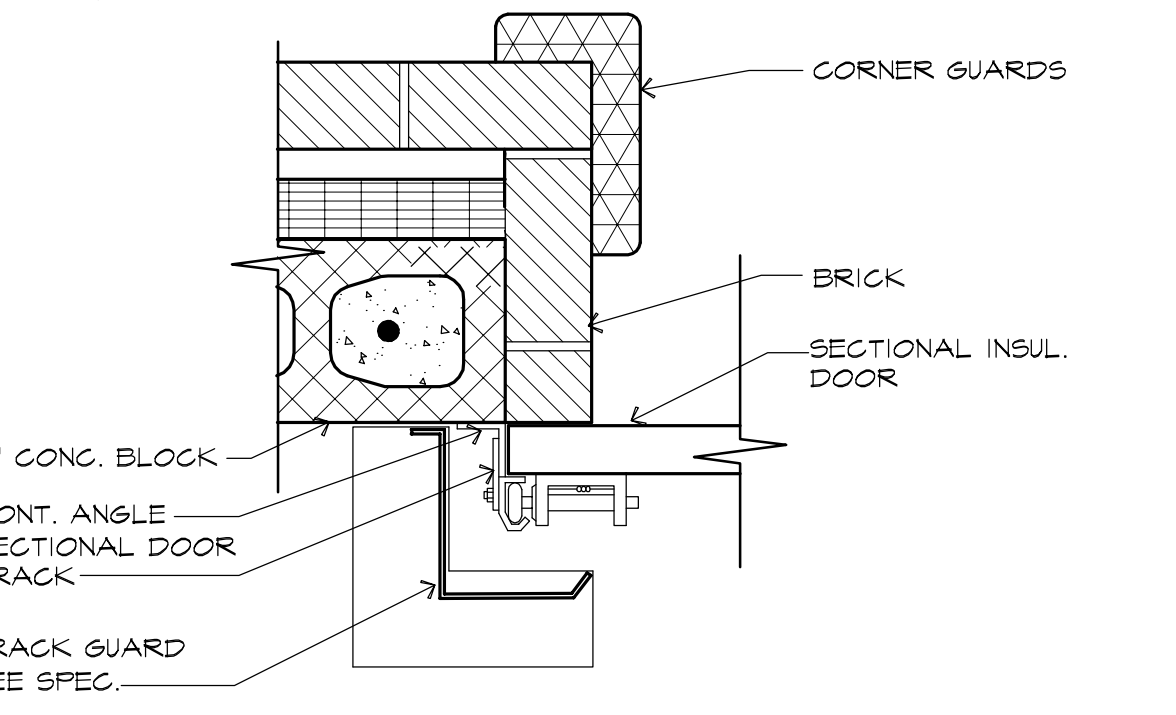
Frame Types
Scale 1/4" = 1'-0"



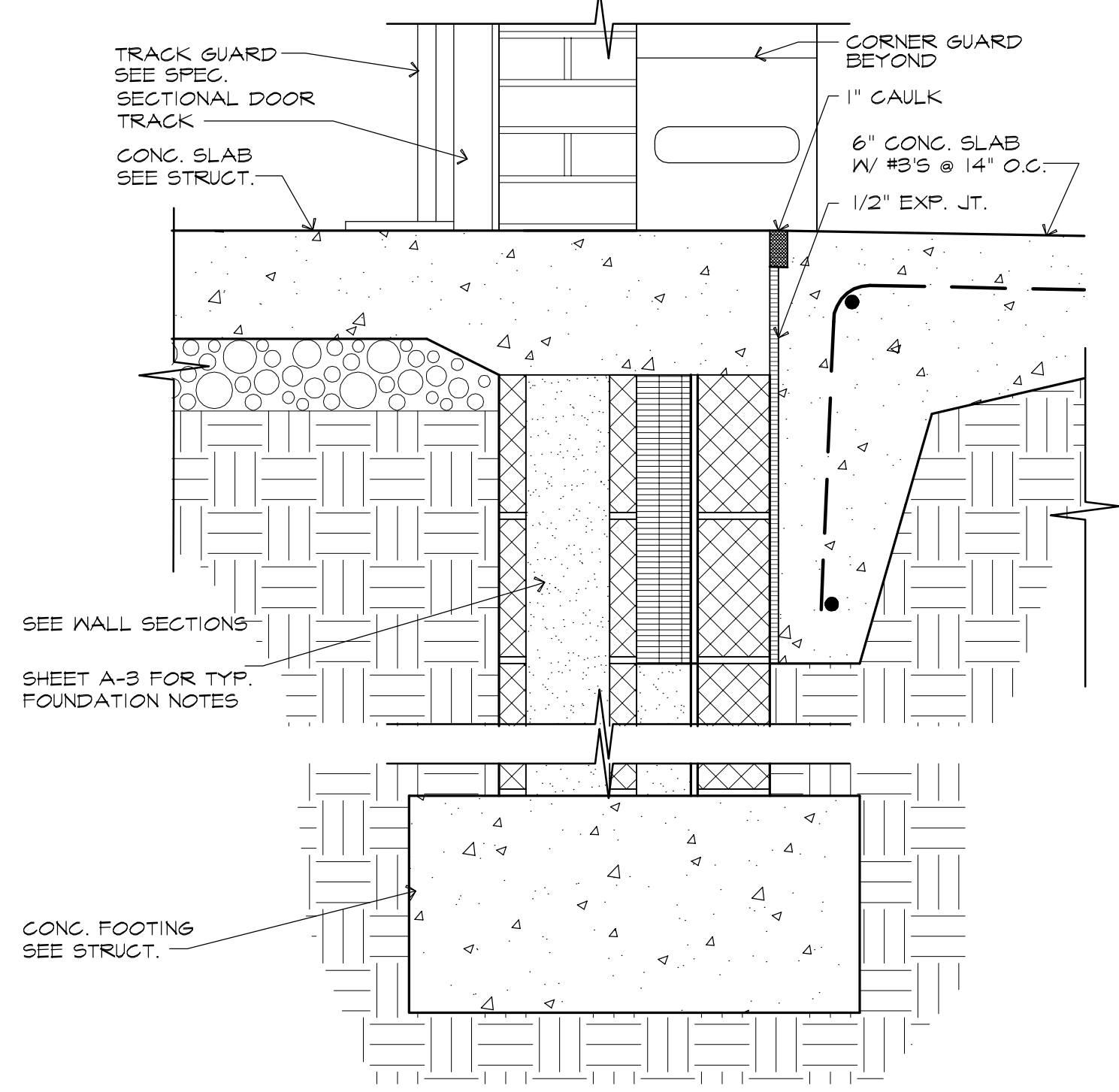
Alternate #1 Translucent Panel Schedule							Head, Jamb & Sill Details are Referenced from this Sheet U.N.O.	
Window Mark	Size W x H	Head	Jamb	Sill	Remarks	Window Mark		
K1	11'-6" x 5'-4"	3/A-3	J6 & J7/A-4	3/A-3		K1		
K2	11'-6" 3/4" x Varies	4/A-3	J5 & J6/A-4	4/A-3		K2		
K3	11'-6" 3/4" x Varies	4/A-3	J5 & J6/A-4	4/A-3		K3		

Alternate #1 Translucent Panel Types
Scale: 1/4"=1'-0"

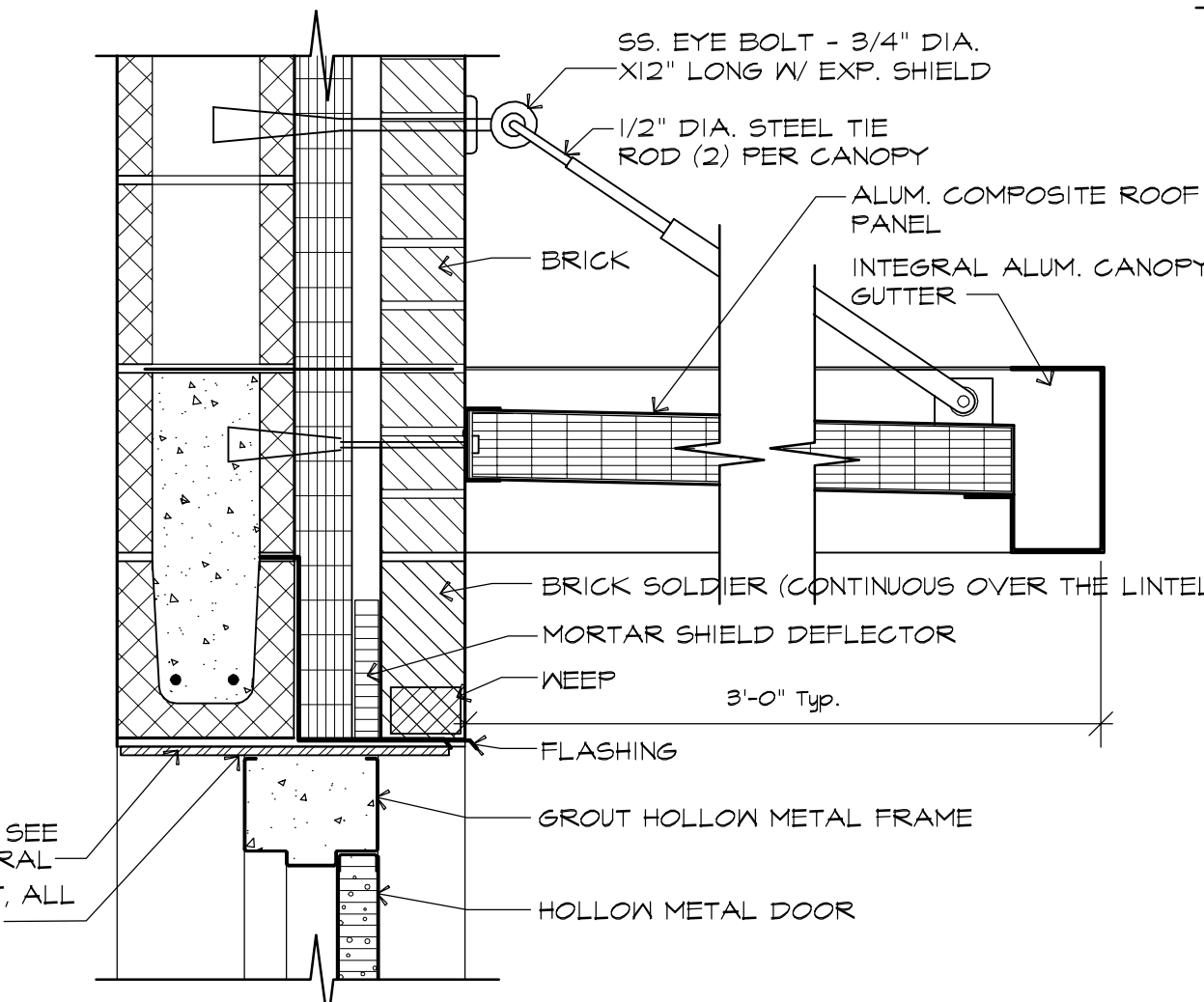
H1 Door Head Detail
1 1/2" = 1'-0"



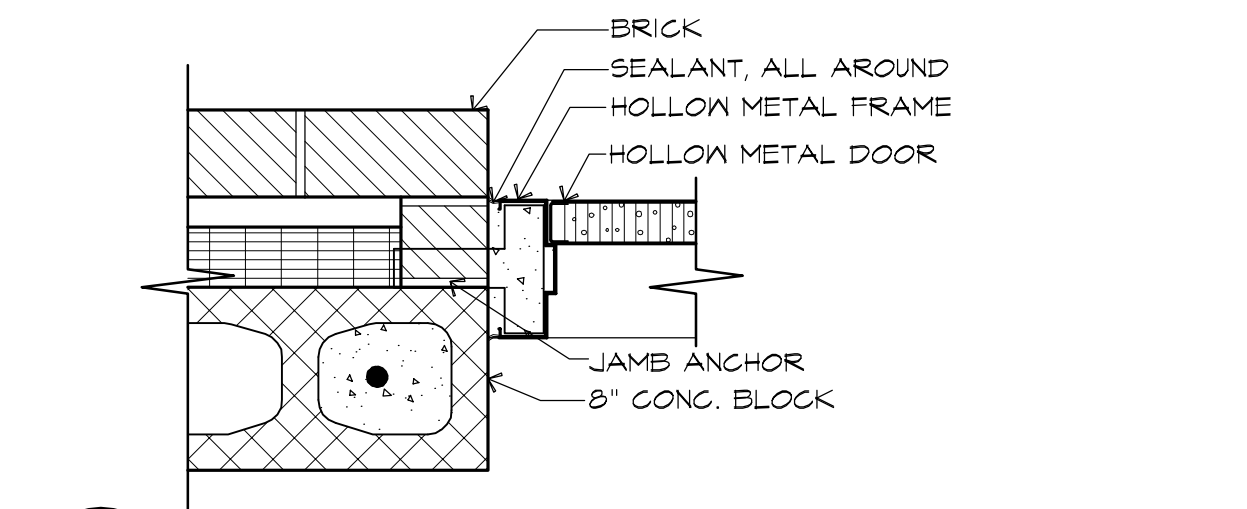
J1 Door Jamb Detail
1 1/2" = 1'-0"



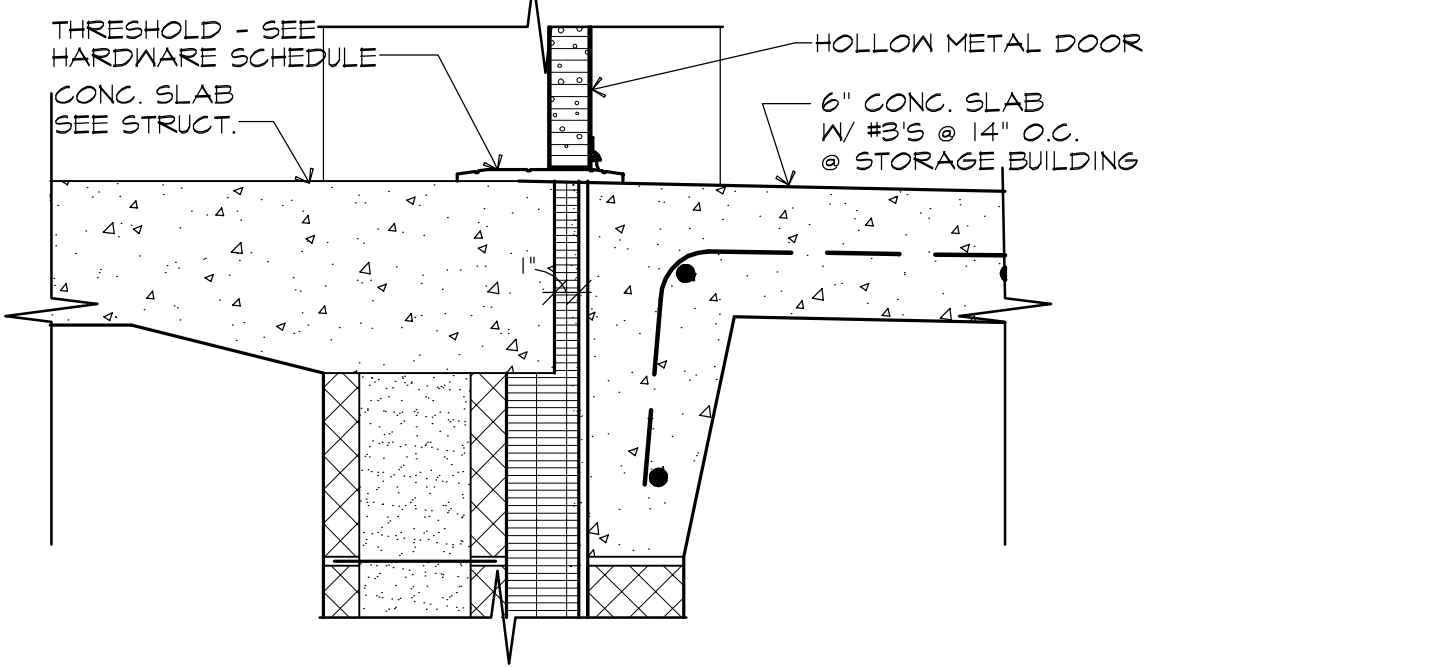
S1 Door Sill Detail
1 1/2" = 1'-0"



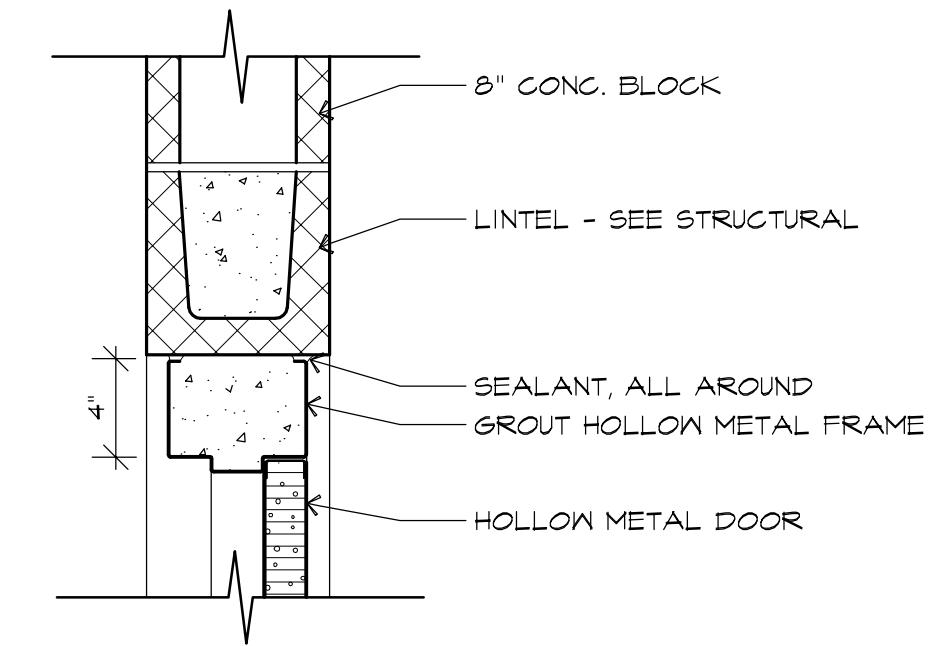
H2 Door Head Detail
1 1/2" = 1'-0"



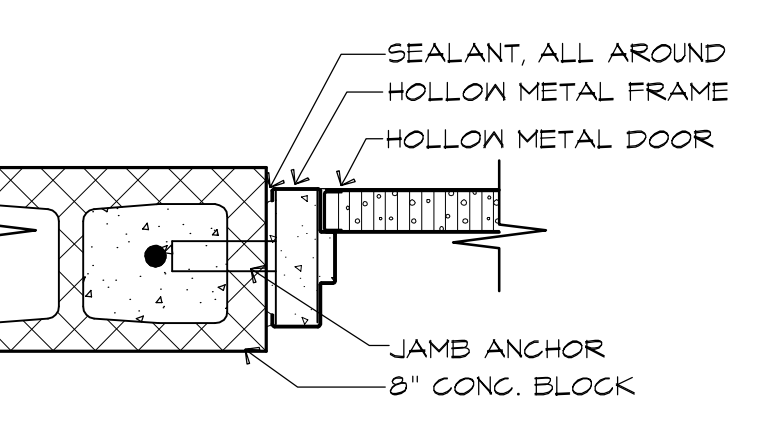
J2 Door Jamb Detail
1 1/2" = 1'-0"



S2 Door Sill Detail
1 1/2" = 1'-0"



H3 Door Head Detail
1 1/2" = 1'-0"

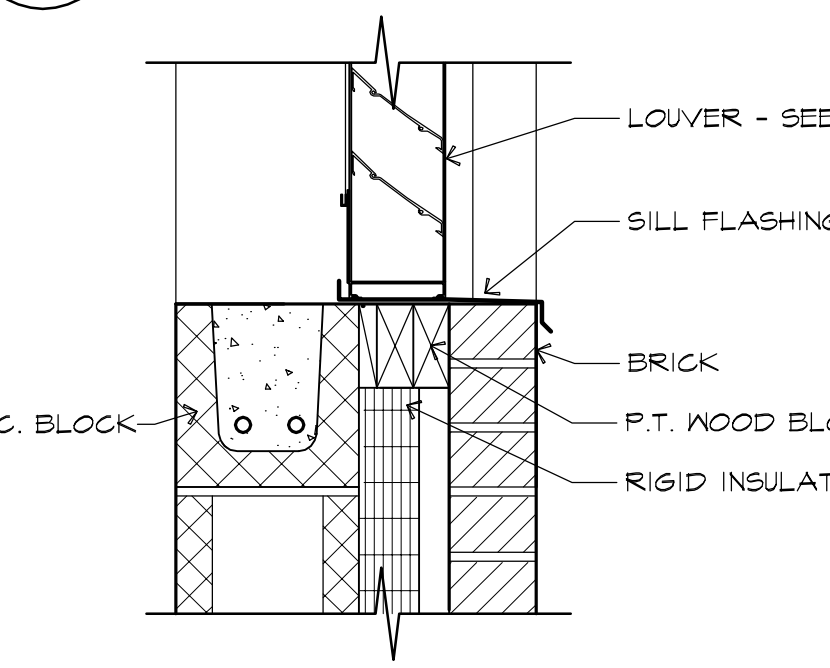


H4 Louver Head Detail
1 1/2" = 1'-0"

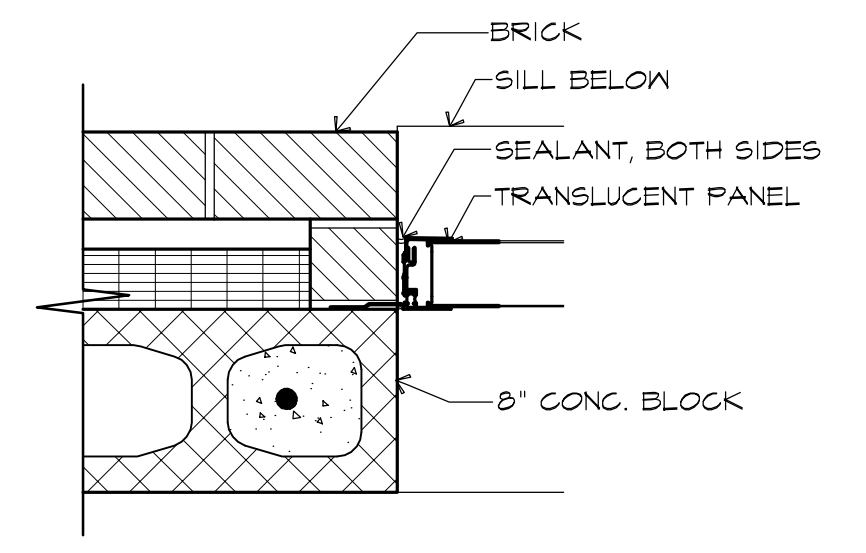
J3 Door Jamb Detail
1 1/2" = 1'-0"



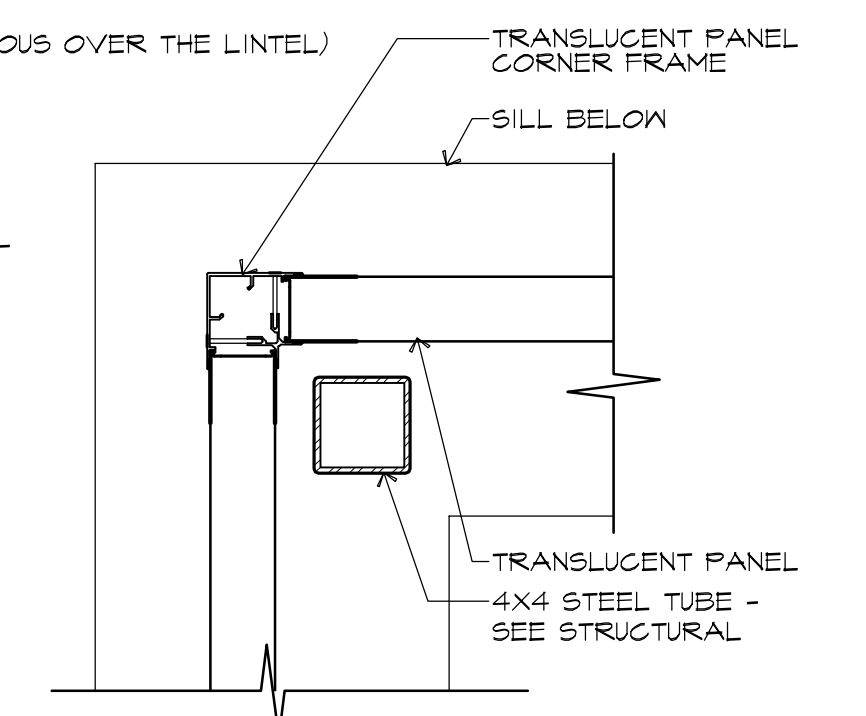
J4 Louver Jamb Detail
1 1/2" = 1'-0"



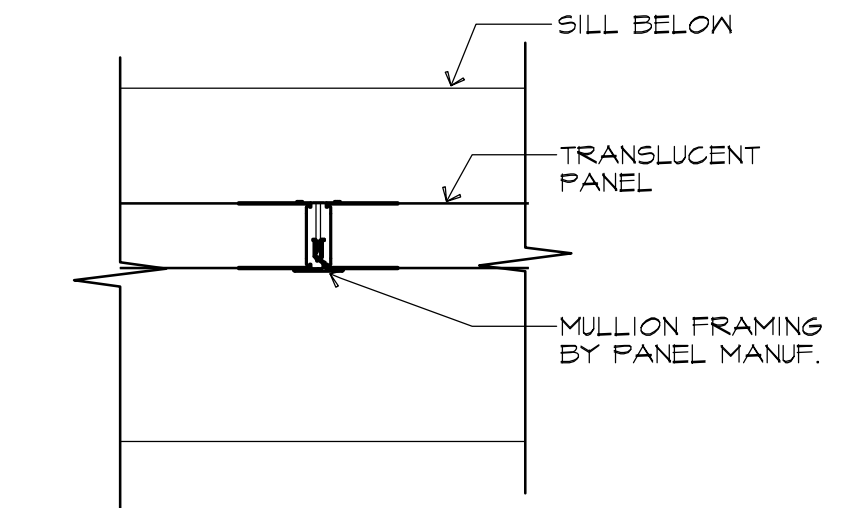
S3 Louver Sill Detail
1 1/2" = 1'-0"



J5 Alternate #1 Jamb Detail
1 1/2" = 1'-0"



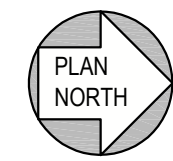
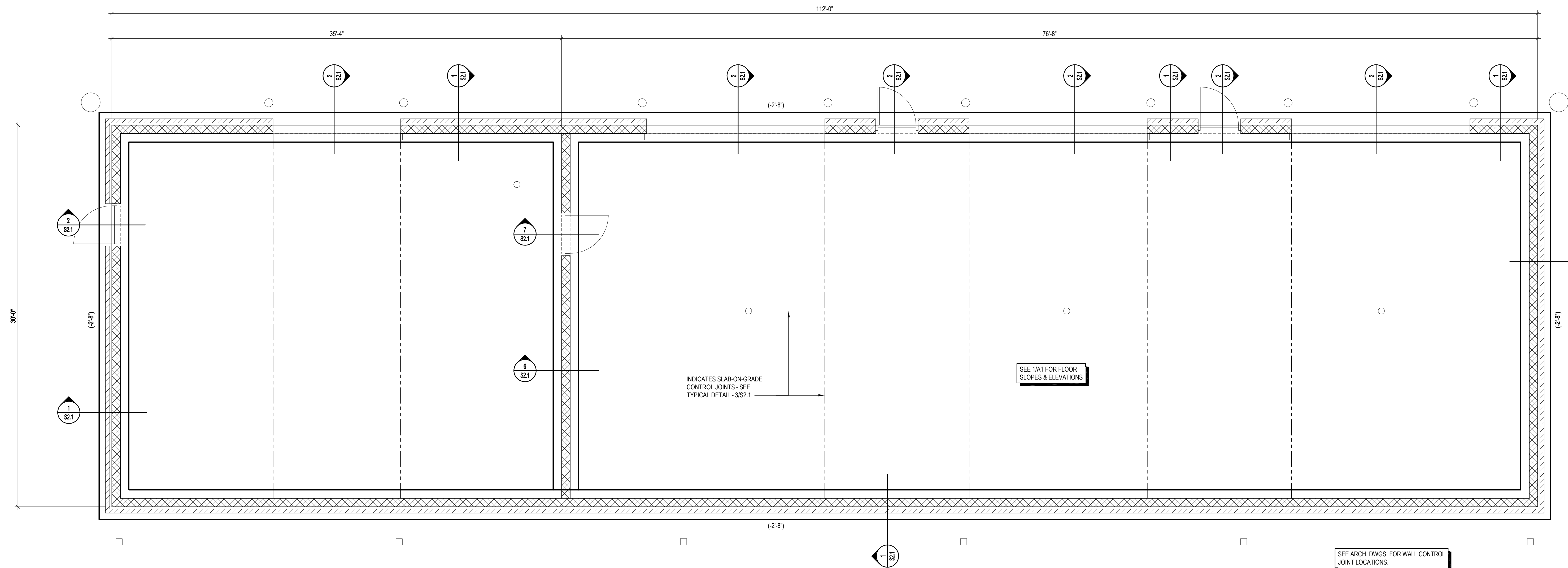
J6 Alternate #1 Corner Jamb Detail
1 1/2" = 1'-0"



J7 Alternate #1 Mullion Detail
1 1/2" = 1'-0"

Door Schedule & Details, Translucent Panels





FOUNDATION PLAN

1/4" = 1'-0"
Dwg.# 150535-S2001.DWG

FOUNDATION PLAN NOTES

1. ELEVATIONS:
 - A. THE REFERENCE ELEVATION (0'-0") FOR ALL ELEVATIONS SHOWN ON THE FOUNDATION PLANS SHALL BE AT THE TOP OF THE FLOOR SLAB. SEE SITE PLAN FOR SPECIFIED ELEVATION OF THE FLOOR SLAB.
 - B. THE FOLLOWING SYMBOLS ARE USED ON THE FOUNDATION PLANS TO NOTE ELEVATIONS ABOVE (+) OR BELOW (-) THE REFERENCE ELEVATION DEFINED ABOVE.
 - (...) TOP OF FOOTING (-4'-8" TYP)
 - 0'-0" TOP OF SLAB
 - B.A. FIELD VERIFY
2. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE PADS, DRIVEWAYS, AND SIDEWALKS NOT SHOWN ON THIS DRAWING.
3. WALL PROJECTIONS, CHASES, PIERS, AND SIMILAR DETAIL ITEMS MAY NOT BE SHOWN; SEE ARCHITECTURAL DRAWINGS FOR THESE ITEMS.
4. FOOTING ELEVATIONS SHOWN ON PLAN ARE FOR ESTIMATING PURPOSES AND MAY BE VARIED TO SUIT SITE, SOIL, OR UNDERGROUND UTILITY CONDITIONS AS FOLLOWS:
 - A. THE TOP OF ALL EXTERIOR FOOTINGS ARE TO BE A MINIMUM OF 2'-0" BELOW THE FINISH GRADE COORDINATE WITH SITE PLAN. IN NO CASE SHALL TOP OF FOOTING ELEVATIONS BE HIGHER THAN INDICATED ON PLAN. PRIOR TO CONSTRUCTION, NOTIFY THE ENGINEER OF ALL FOOTING ELEVATIONS THAT VARY FROM THOSE SHOWN ON THE PLAN.
 - B. COORDINATE FOOTING ELEVATIONS WITH UNDERGROUND UTILITIES. UNDERGROUND UTILITIES WHICH CROSS WALL FOOTINGS SHALL CROSS AT AN ANGLE OF NO MORE THAN 45 DEGREES FROM PERPENDICULAR. UNLESS OTHERWISE SHOWN OR APPROVED BY THE DESIGNER, THE MINIMUM CLEARANCE OF UNDERGROUND PIPES AND UTILITIES WHICH CROSS BELOW WALL FOOTINGS SHALL BE 6". OTHERWISE THE FOOTING SHALL BE STEPPED DOWN SO THAT THE PIPES MAY PASS ABOVE THE FOOTING AND THROUGH THE WALL. ANY PIPES WHICH MUST PASS UNDERNEATH A WALL FOOTING ARE TO BE INSTALLED PRIOR TO THE CONSTRUCTION OF THE FOOTING AND THE TRENCH BACKFILLED AND COMPACTED AS REQUIRED.
 - C. UNLESS OTHERWISE APPROVED BY THE DESIGNER, NO EXCAVATION SHALL OCCUR BELOW A SPREAD FOOTING WITHIN A ZONE DEFINED BY A PLANE SLOPING DOWNWARD AT A 1:1 SLOPE FROM THE BOTTOM EDGES OF THE FOOTING ON ALL SIDES.
5. ALL FOOTING REINFORCING SHALL BE SUPPORTED ON THE SPECIFIED CHAIRS ON THE SOIL AND SHALL BE SECURED AGAINST MOVEMENT DURING CONCRETE

PLACEMENT.

6. IF RAINFALL OR GROUNDWATER INTRUSION IS IMMINENT BEFORE PLACEMENT OF CONCRETE IN FOOTING EXCAVATIONS, A 2" THICK "MUD MAT" OF LEAN CONCRETE SHALL BE PLACED IN THE EXCAVATION AFTER OVEREXCAVATING 2" IN DEPTH. FOR LIGHT PRECIPITATION CONDITIONS, PROTECT BOTTOM AND SIDES OF EXCAVATION WITH TEMPORARY 6 MIL POLYETHYLENE LINING. ANY SOIL WHICH IS SOFTENED DUE TO MOISTURE EXPOSURE SHALL BE UNDERCUT TO FIRM SOIL AND THE DEPTH OF THE FOOTING SHALL BE INCREASED TO REPLACE THE SOFT SOIL THAT WAS REMOVED.
7. UNLESS OTHERWISE NOTED, THE CONCRETE SLAB-ON-GRADE SHALL COMPLY WITH THE FOLLOWING:
 - THICKNESS: 6"
 - REINFORCING: #3 @ 14" O/C E.W. 1" CLR. FROM TOP.
 - VAPOR BARRIER: SEE ARCHITECTURAL SPECIFICATIONS
 - STONE BASE: SEE GEOTECHNICAL REPORT
8. SLAB ON GRADE CONTROL JOINTS:
 - A. SLAB CONSTRUCTION JOINTS SHALL BE LOCATED AT INDICATED CONTROL JOINT LOCATIONS. ALL CONSTRUCTION JOINTS SHALL HAVE DOWELS.
 - B. COORDINATE ALL SLAB JOINT LOCATIONS WITH JOINTS IN ARCHITECTURAL FLOOR FINISHES TO ASSURE THAT ALIGNMENT IS APPLICABLE.
9. SLAB DEPRESSIONS: DEPRESSED AREAS ARE SHOWN ON THE PLAN FOR ESTIMATING PURPOSES ONLY. LOCATIONS AND DEPTHS OF ALL SLAB DEPRESSIONS SHALL BE DETERMINED IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS.
10. SLAB SLOPES: SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FLOOR DRAINS AND SLOPED SLAB AREAS. SLOPE SURFACE UNIFORMLY TO DRAIN. SLOPED SLABS WHICH POND WATER SHALL BE REPLACED.

SEE ARCH. DWGS. FOR WALL CONTROL JOINT LOCATIONS.

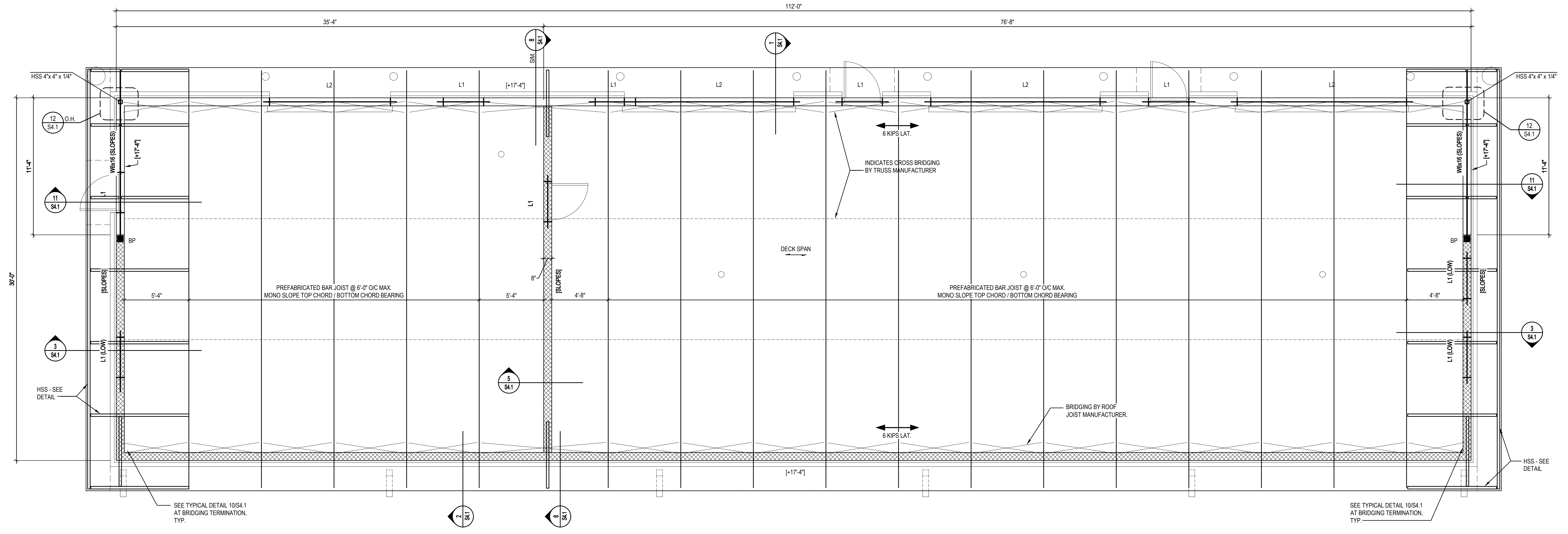
SEE 1/A1 FOR FLOOR SLOPES & ELEVATIONS

INDICATES SLAB-ON-GRADE CONTROL JOINTS - SEE TYPICAL DETAIL - 3/S2.1



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 File Name: 11/5/2018 3:10 PM
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1
S1.2
ROOF FRAMING PLAN
 1/4" = 1'-0"
 Dwg.# 150534-S2002.DWG

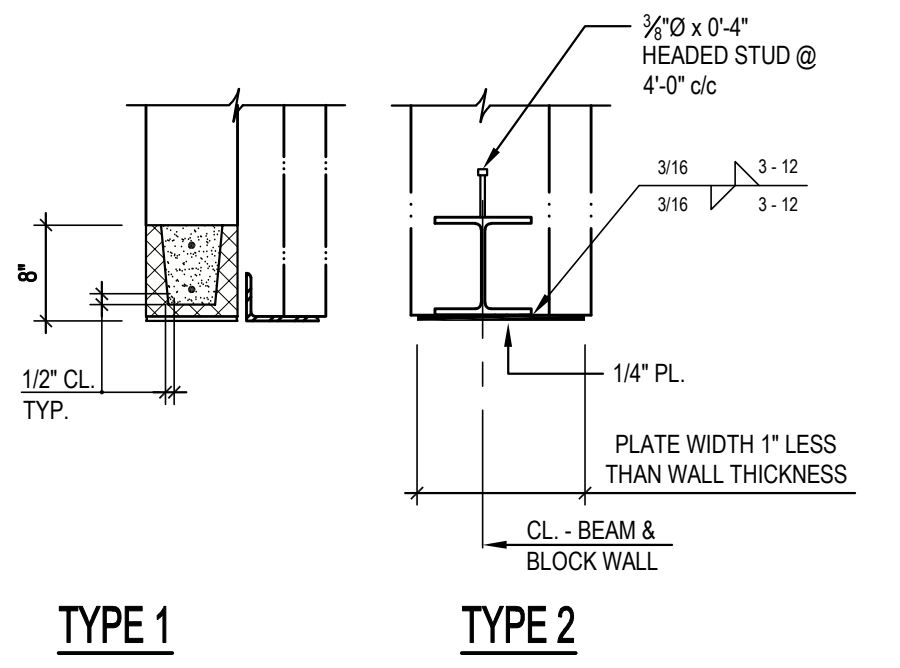
ROOF FRAMING PLAN NOTES

- ELEVATIONS:
 - THE REFERENCE ELEVATION (0'-0") FOR ALL ELEVATIONS SHOWN ON THE FLOOR PLANS SHALL BE THE TOP OF THE MAIN LEVEL FLOOR SLAB. SEE SITE PLAN FOR SPECIFIED ELEVATION OF MAIN LEVEL FLOOR SLAB.
 - SEE ARCHITECTURAL DRAWING FOR TOP OF WALL / ROOF BEARING ELEVATIONS NOT INDICATED ON STRUCTURAL PLANS.
 - THE FOLLOWING SYMBOLS ARE USED ON THE FLOOR PLANS TO NOTE ELEVATIONS ABOVE THE REFERENCE ELEVATION DEFINED ABOVE.
 - SPAN DIRECTION - ROOF DECKING
 - LX... LINTEL - SEE LINTEL SCHEDULE SHEET S1.2
 - [X-X] INDICATES TOP OF WALL / RAFTER / TRUSS BEARING - SEE ARCH. DWGS FOR ELEVATIONS NOT SHOWN.
 - BP STEEL BEARING PLATE - SEE 6/S4.1
- SEE ARCHITECTURAL DRAWINGS FOR ROOF SLOPE AND BAR JOIST PROFILE

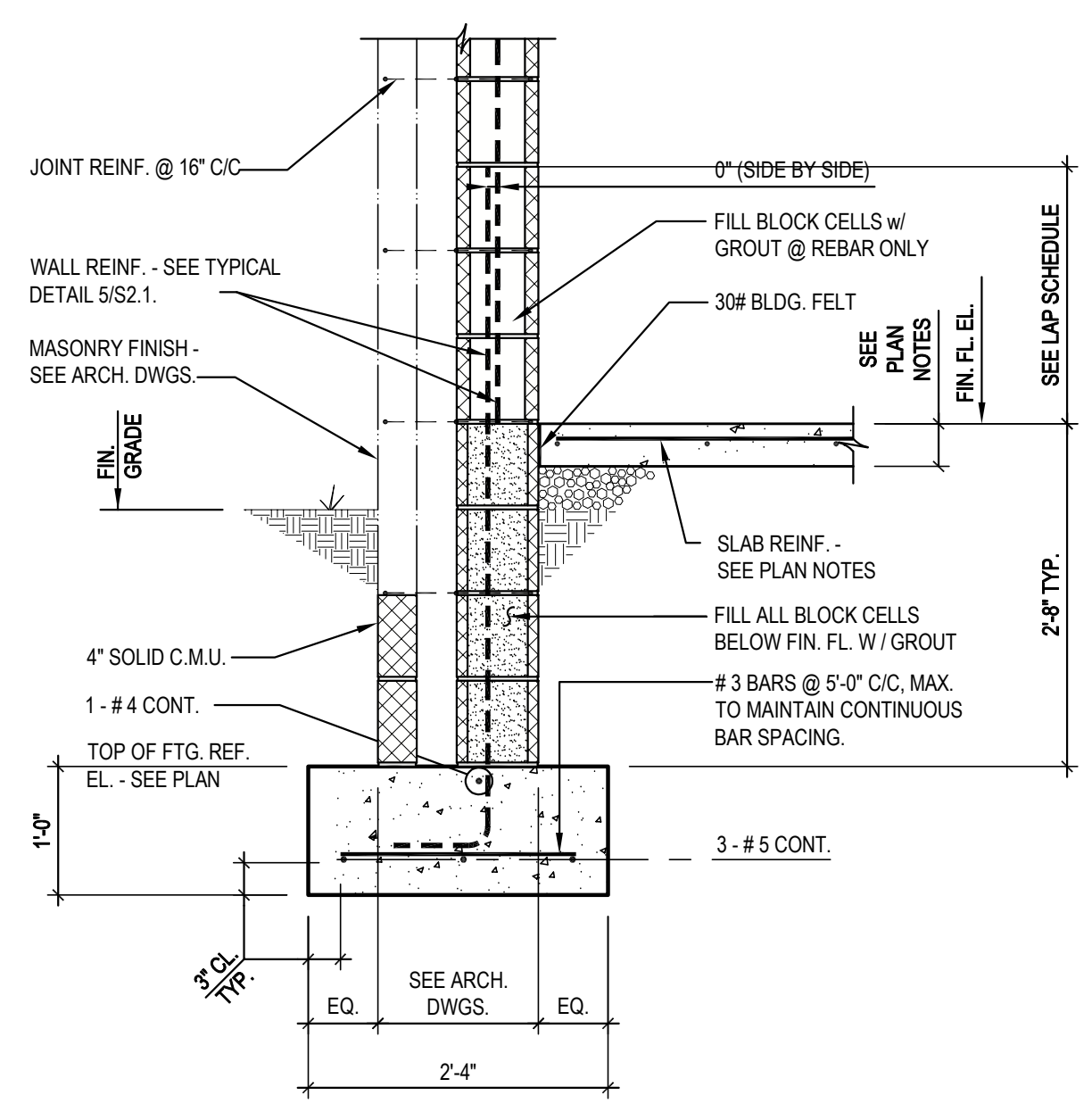
- ROOF JOISTS:
 - ALL JOISTS SHALL BE DESIGNED FOR THE FOLLOWING LOADS:
 - UNIFORMLY DISTRIBUTED GRAVITY LOADS AND DEFLECTIONS AS INDICATED BY JOIST DESIGNATION (16K7)
 - 15 PSF NET WIND UPLIFT.
 - ADD-LOAD: A CONCENTRATED DEAD LOAD OF 400 [1000 FOR LH] POUNDS IN ADDITION TO UNIFORM LOADS THAT MAY BE APPLIED TO ANY TOP OR BOTTOM CHORD PANEL POINT.
 - BEND-CHECK LOAD: CHORD MEMBERS SHALL BE CAPABLE OF SUPPORTING A CONCENTRATED LOAD OF 300 POUNDS THAT MAY BE APPLIED AT ANY TOP OR BOTTOM CHORD LOCATION ALONG THE JOIST. THIS LOAD IS NOT IN ADDITION TO THE SPECIFIED UNIFORM LOADS.
 - JOIST BRIDGING:
 - PROVIDE HORIZONTAL BRIDGING FOR ALL STEEL JOISTS IN ACCORDANCE WITH SJI AND AS REQUIRED FOR WIND UPLIFT. BRIDGING SHALL BE EQUALLY SPACED ALONG THE SPAN OF THE JOIST.
- WHERE BRIDGING ROWS CONFLICT WITH PIPING, DUCTS, OTHER SUCH OBSTRUCTIONS, REPLACE SINGLE LINE OF BRIDGING WITH TWO LINES ON EACH SIDE OF THE OBSTRUCTION. ALSO, TERMINATE THE INTERRUPTED HORIZONTAL BRIDGING ON EACH SIDE OF THE OBSTRUCTION WITH CROSS BRIDGING.

LINTEL SCHEDULE					
MARK	TYPE	MASONRY		STEEL	REMARKS
		SIZE	BARS		
L1	1	8"	2-#4 CONT.	L- 7" x 4" x 3/8" LH H.D.G.	
L2	2			W16x26 W/ 1/4" BOTT. PLATE, H.D.G.	

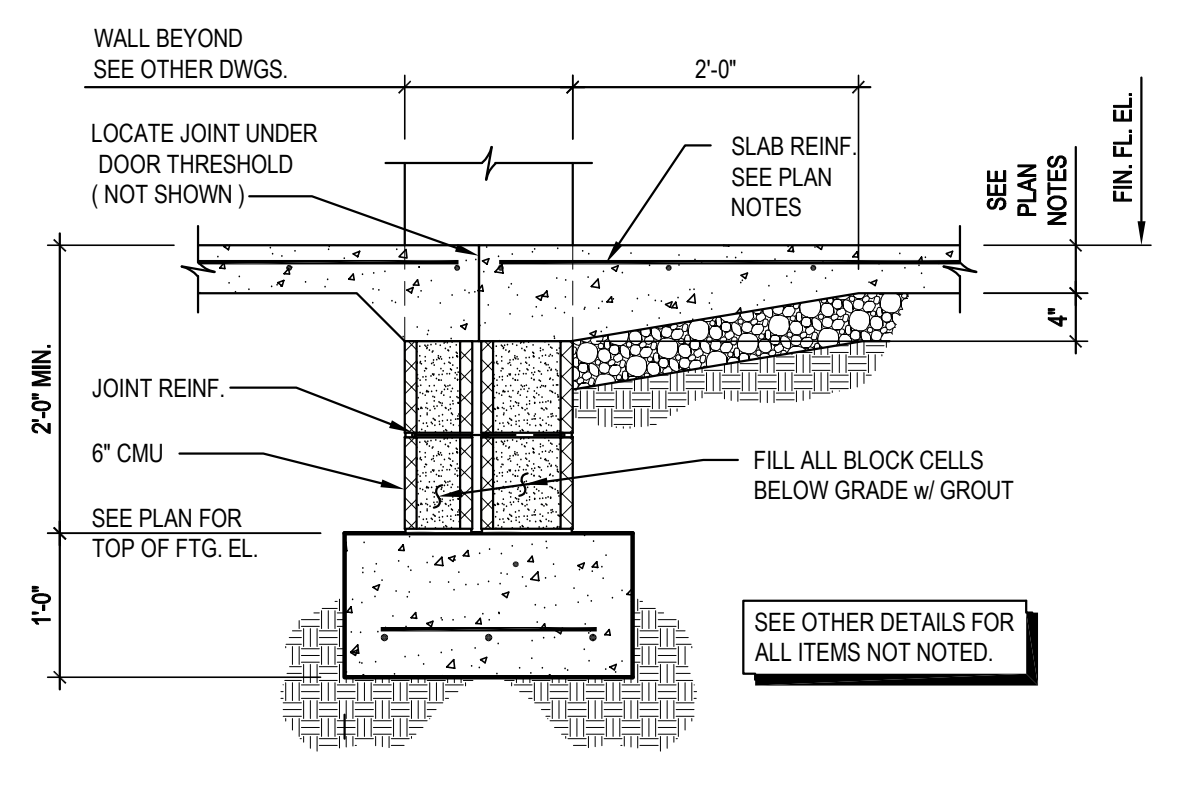
- LINTEL NOTES:**
- MECHANICAL / ELECTRICAL / PLUMBING CONTRACTORS SHALL IDENTIFY ALL MECH. OPENINGS IN LOAD BEARING WALLS AND SUPPLY GENERAL CONTRACTOR SIZE AND LOCATION OF OPENINGS PRIOR TO CONSTRUCTION OF WALLS. GENERAL CONTRACTOR SHALL FURNISH AND INSTALL LINTELS. CONTACT STRUCTURAL ENGINEER FOR CLARIFICATION OF LINTEL TYPE IF REQUIRED.
 - INSTALL 2 - 2x6 JACK STUDS AND 1 - 2x6 ADJACENT FULL HEIGHT STUD EACH END OF LINTEL AT WALL OPENING GREATER THAN 6'-0".
 - INSTALL 3 - 2x6 JACK STUDS AND 2 - 2x6 ADJACENT FULL HEIGHT STUD EACH END OF LINTEL AT WALL OPENING GREATER THAN 8'-0" U.N.O.
 - SEE ARCH. DWGS. FOR STEEL ANGLE LINTELS REQUIRED TO SUPPORT STONE VENEER ABOVE WALL OPENINGS.
 - MINIMUM MASONRY LINTEL BEARING = 2'-0"
 - FILL CELLS OF BLOCK UNDER LINTEL BEARING w/ GROUT FROM FLOOR TO LINTEL BEARING.
 - FOR MISC. OPENINGS IN MASONRY WALL UP TO 3'-0", USE LINTEL "L1".



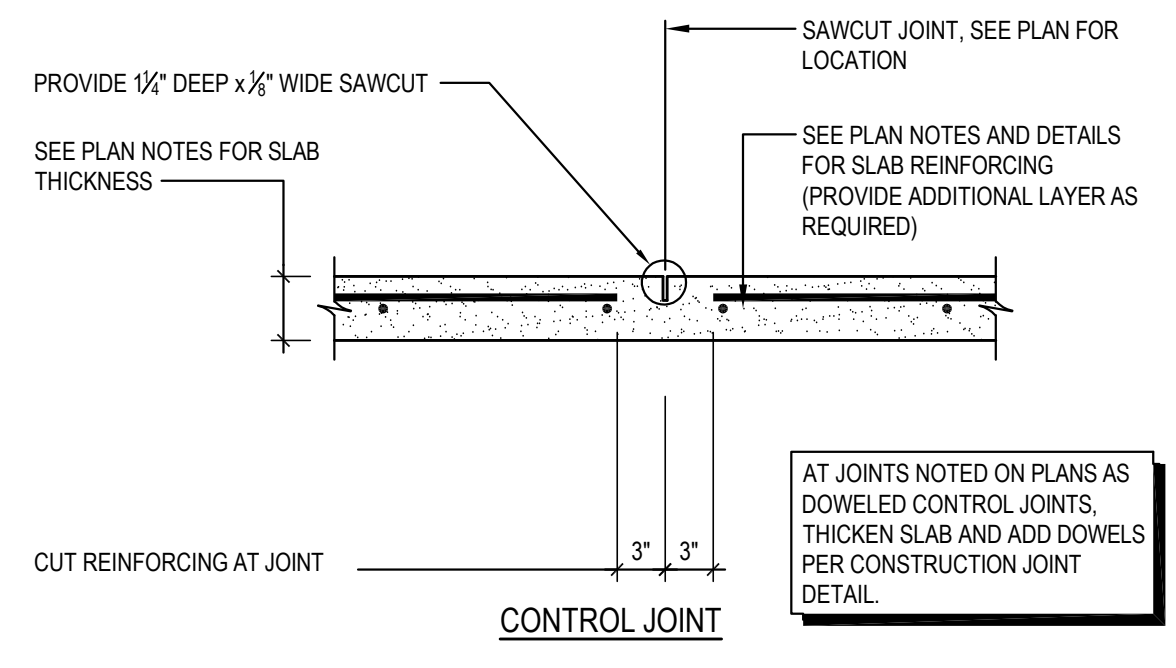
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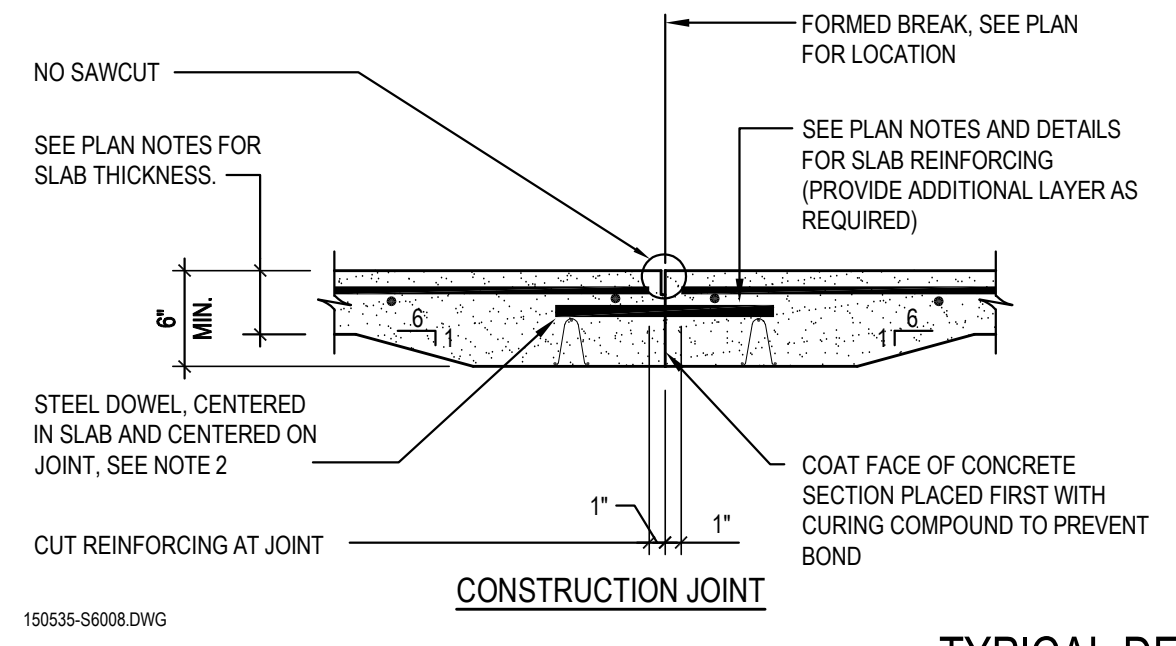
1 SECTION
S2.1 3/4" = 1'-0"
Dwg.# 150534-59001.DWG



2 TYPICAL SECTION AT
EXTERIOR DOORS
S2.1 3/4" = 1'-0"
Dwg.# 150534-59002.DWG



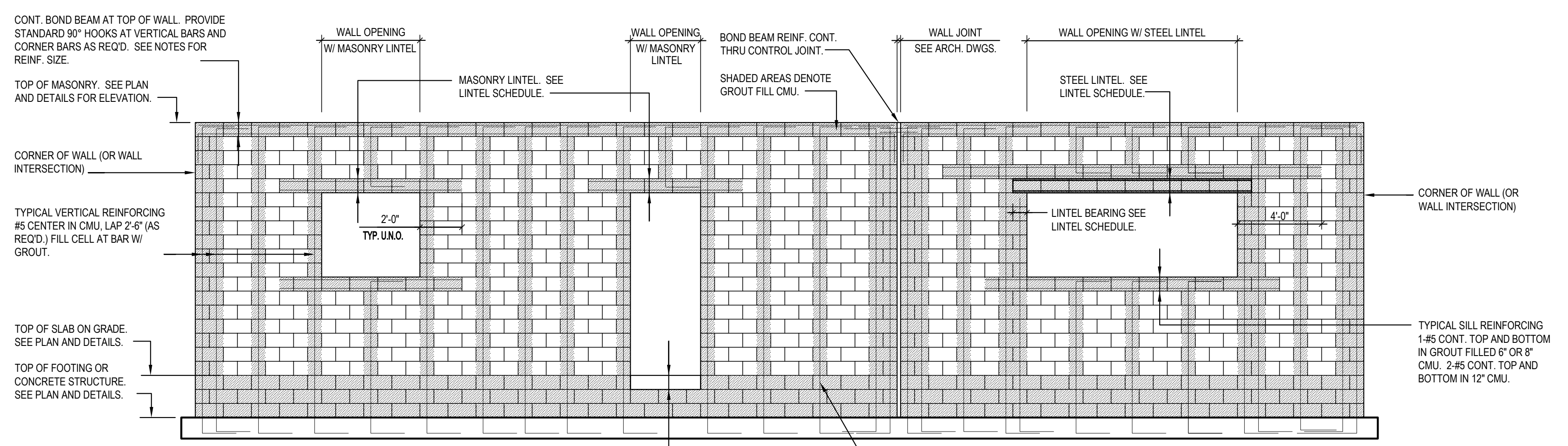
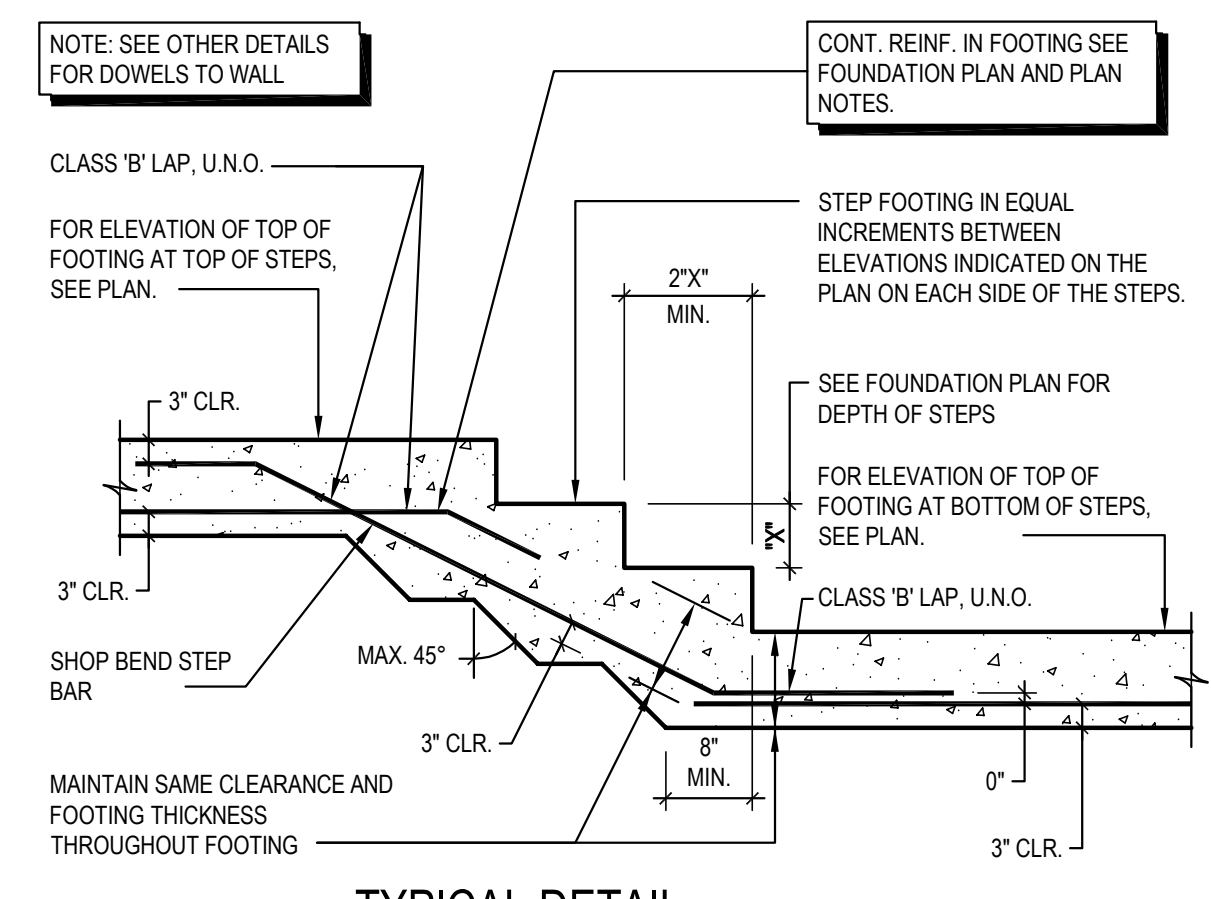
3 TYPICAL DETAIL
SLAB ON GRADE JOINTS
S2.1 1" = 1'-0"
Dwg.# 150535-59008.DWG



4 TYPICAL DETAIL
STEPPED WALL FOOTING
S2.1 1/2" = 1'-0"
Dwg.# 150534-59004.DWG

SLAB-ON-GRADE JOINT NOTES:

- LOCATE JOINTS IN CONCRETE SLAB AS SHOWN ON FOUNDATION PLAN.
- SLAB JOINT DOWELS:
 - PROVIDE 3/8" x 16" SMOOTH ROUND STEEL DOWELS IN SLAB JOINTS SPACED AT 12" O/C DOWELS SHALL BE SAWCUT TO LENGTH.
 - DOWELS SHALL BE SECURELY SUPPORTED DURING CONCRETE PLACEMENT ON CONTINUOUS SLAB BOLSTERS ON EACH SIDE OF THE JOINT. POSITION AND ALIGN DOWELS TO BE PERPENDICULAR TO THE JOINT AND PARALLEL TO THE TOP SLAB SURFACE.
 - AT CONSTRUCTION JOINT, GREASE END OF DOWEL PLACED IN FIRST SECTION OF CONCRETE. AFTER CONCRETE IN FIRST SECTION HAS HARDENED, MOVE DOWEL BACK AND FORTH IN HOLE TO INSURE THAT BOND IS BROKEN. AT DOWELED CONTROL JOINT, GREASE ENTIRE LENGTH OF DOWEL.
 - DIAMOND PLATE JOINT KEYS MAY BE USED AS AN ALTERNATIVE TO DOWELS. SUBMIT PRODUCT DATA FOR APPROVAL.
- SAW CUTTING:
 - SAWCUT CONTROL JOINTS IMMEDIATELY AFTER COMPLETING SLAB SURFACE FINISHING AT EACH JOINT LOCATION AND AFTER THE CONCRETE IS SUFFICIENTLY SET TO LEAVE NO TRACKS ON THE SURFACE. SAW SHALL BE CAPABLE OF CUTTING OF HARDENED, UNCURED CONCRETE WITHOUT DAMAGING THE CONCRETE.
 - SAW CUTS AT CONSTRUCTION JOINTS MAY BE MADE WHEN CONTROL JOINTS ARE CUT OR AT ANY TIME PRIOR TO THE TIME THAT JOINT SEALANTS OR FILLERS ARE TO BE INSTALLED.
 - IMMEDIATELY AFTER SAWCUTTING, CLEAN THE JOINTS AND SLAB SURFACE. CLEANING SHALL REMOVE ALL LAITANCE, SAW DUST, AND OTHER CONTAMINANTS FROM SLAB SURFACE.
 - AFTER SAWING JOINTS AND CLEANING, COMMENCE CURING OF THE SLAB AND JOINTS AS SPECIFIED.



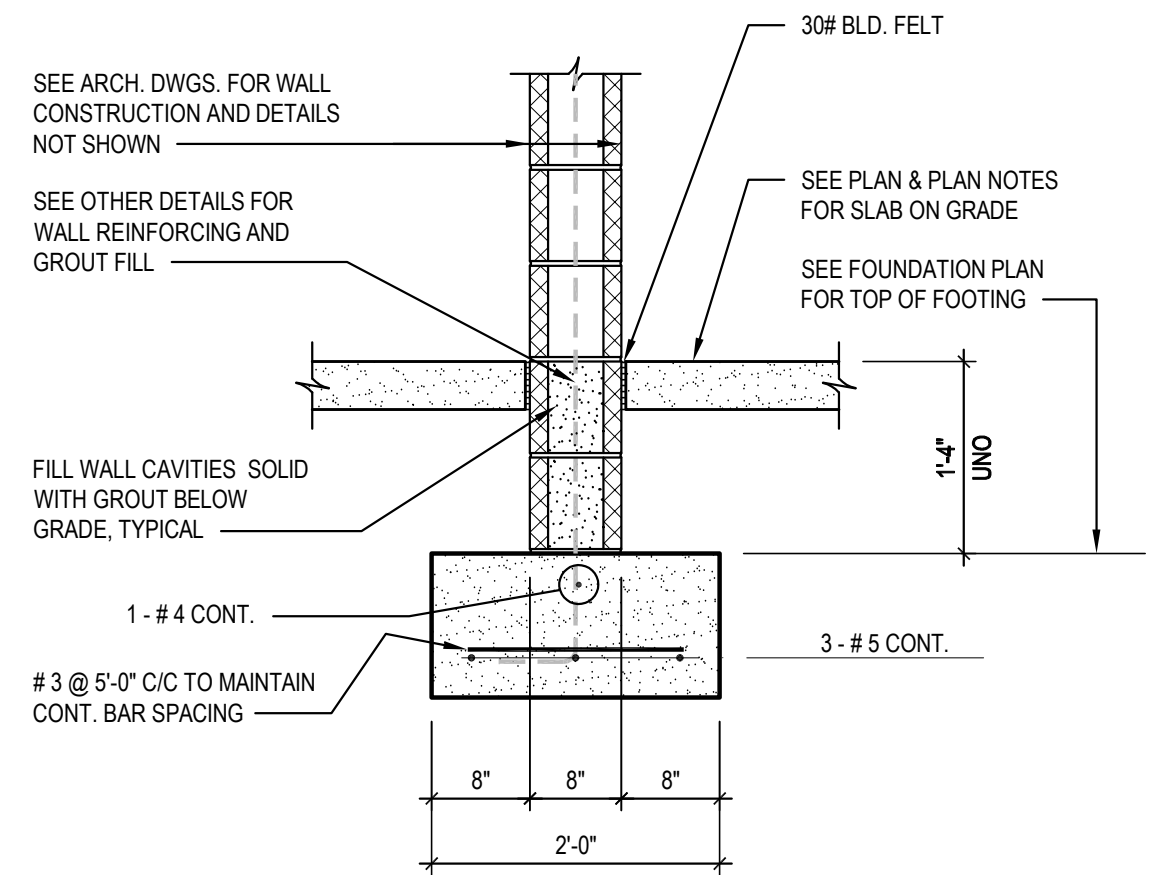
5 TYPICAL DETAIL - MINIMUM MASONRY WALL REINFORCING
S2.1 1/4" = 1'-0"
Dwg.# 570900.DWG

- CONT. BOND BEAM AT TOP OF WALL. PROVIDE STANDARD 90° HOOKS AT VERTICAL BARS AND CORNER BARS AS REQ'D. SEE NOTES FOR REINF. SIZE.
- TOP OF MASONRY. SEE PLAN AND DETAILS FOR ELEVATION.
- CORNER OF WALL (OR WALL INTERSECTION)
- TYPICAL VERTICAL REINFORCING #5 CENTER IN CMU, LAP 2'-6" (AS REQ'D.) FILL CELL AT BAR W/ GROUT.
- TOP OF SLAB ON GRADE. SEE PLAN AND DETAILS.
- TOP OF FOOTING OR CONCRETE STRUCTURE. SEE PLAN AND DETAILS.
- NOTES:
- BRACE TOP OF ALL MASONRY WALLS AS SHOWN ON OTHER DETAILS.
 - REFER TO DRAWINGS OF OTHER DISCIPLINES FOR ALL OPENING SIZES AND LOCATIONS THROUGH MASONRY WALLS.
 - WHERE DETAILS SHOWN ON OTHER SHEETS NOTE REINFORCING OF GREATER SIZE AND/OR CLOSER SPACING. THE REINFORCING REQUIREMENT IN SAID DETAIL SHALL GOVERN.
 - MINIMUM HORIZONTAL JOINT REINFORCING SHALL BE LADDER TYPE WITH W17 WIRES SPACED AT 16" O.C. VERTICAL U.N.O.
 - AT STACKED BOND CONSTRUCTION. PROVIDE CONTINUOUS HORIZONTAL BOND BEAMS AT 4'-0" O.C. MAXIMUM SPACING.
 - WHERE CONTINUOUS 6" OR 8" BOND BEAMS REQUIRED. PROVIDE (1) #5 BAR TOP AND BOTTOM, U.N.O.
 - WHERE CONTINUOUS 12" BOND BEAM REQUIRED PROVIDE (2) #5 BARS TOP AND BOTTOM, U.N.O.
 - PROVIDE CONTINUOUS BOND BEAM AT EVERY 8'-8" HEIGHT OF WALL FOR WALLS GREATER THAN 12'-0" IN HEIGHT.
- SEE OTHER TYPICAL DETAILS FOR SLAB AT OPENING.
- VERTICAL REINFORCING BETWEEN WALL EDGE CONDITIONS (U.N.O.) AT 6" OR 8" CMU WALLS SHALL BE #5 AT 32" O.C. REINFORCING AT 12" CMU WALL SHALL BE #6 AT 32" O.C.

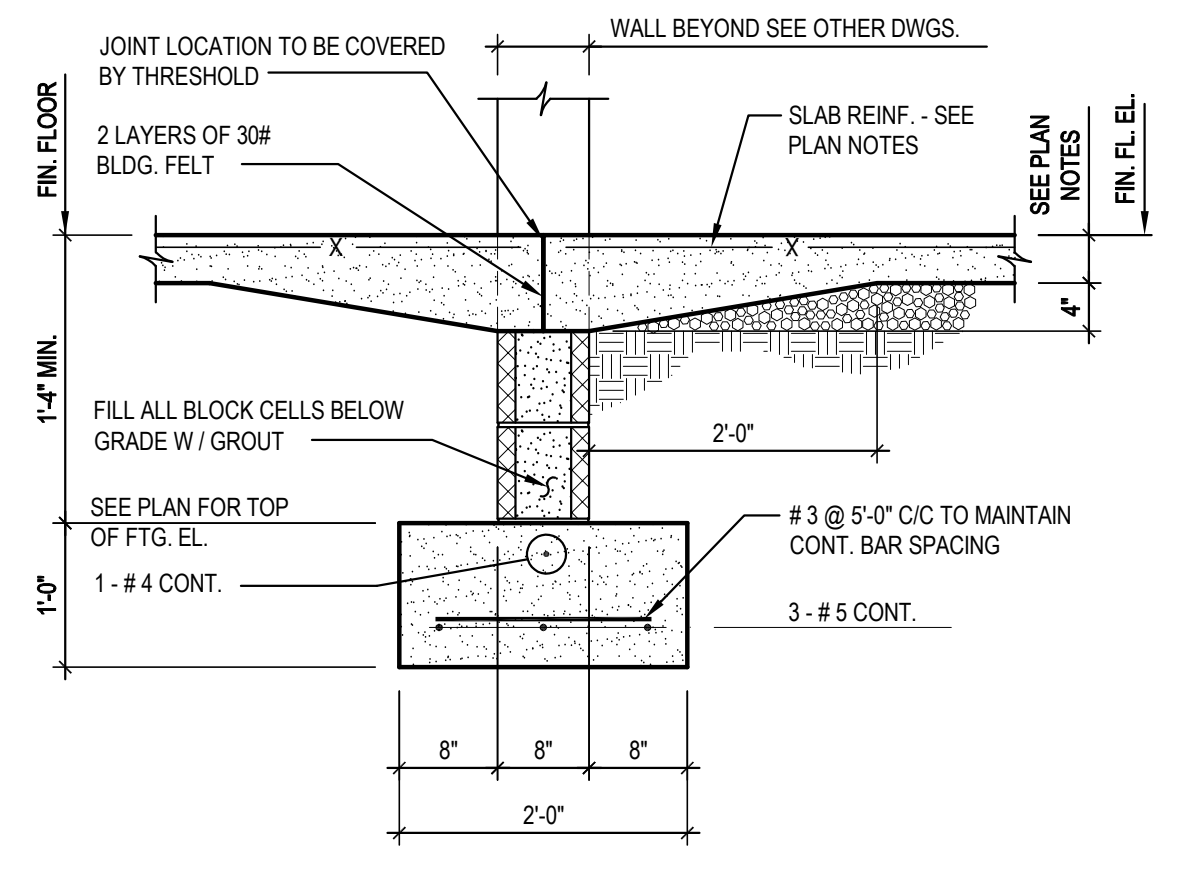
CONCRETE REINFORCING BAR LAP LENGTH SCHEDULE

SIZE	CLASS B LAP LENGTH
3	1'-10"
4	2'-6"
5	3'-0"
6	3'-6"
7	5'-3"
8	6'-0"
9	6'-9"

NOTE: SCHEDULE ASSUMES 3000 PSI CONCRETE



6 TYPICAL DETAIL
INTERIOR MASONRY WALL FOOTING
S2.1 3/4" = 1'-0"
Dwg.# 150535-59006.DWG

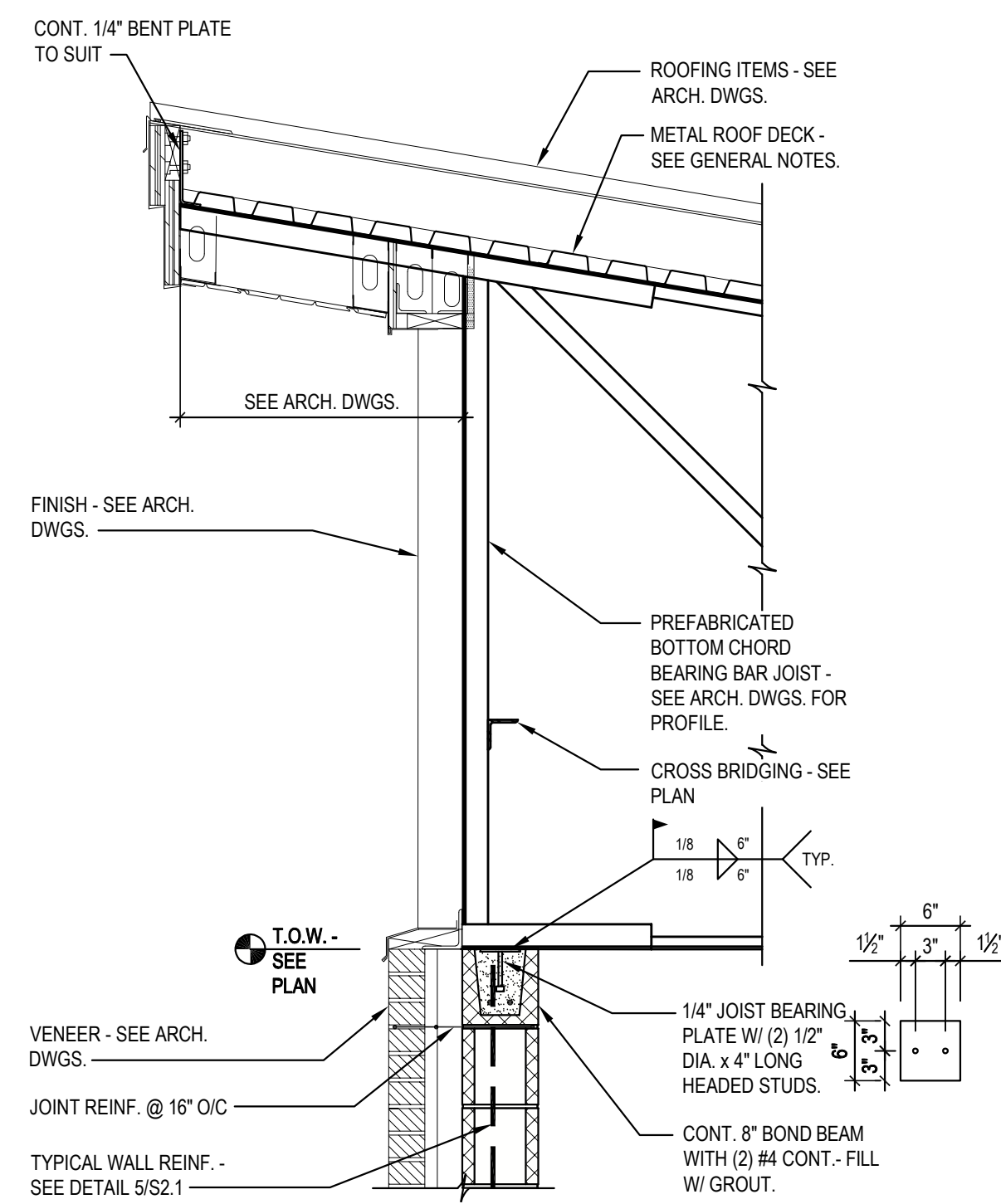


7 SECTION AT INTERIOR DOOR
S2.1 3/4" = 1'-0"
Dwg.# 150535-59007.DWG

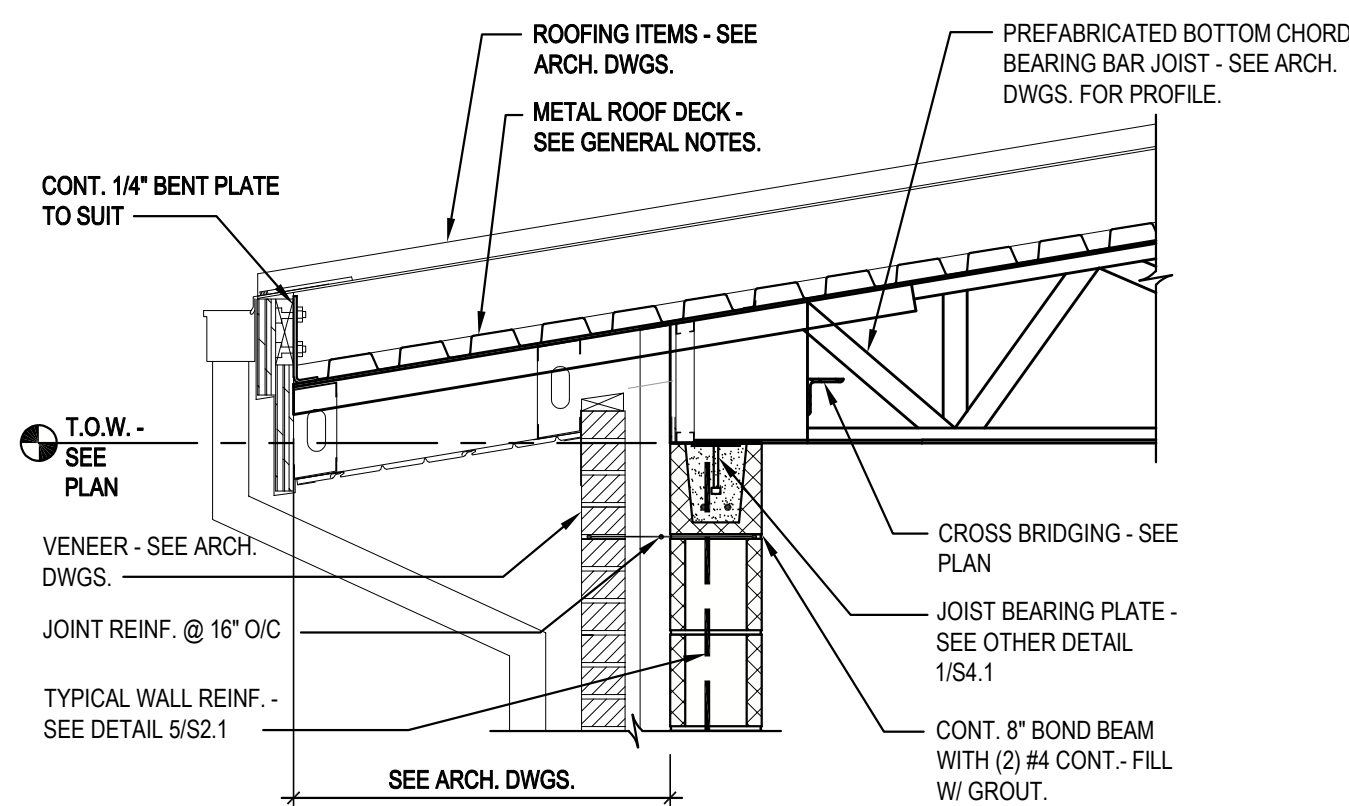


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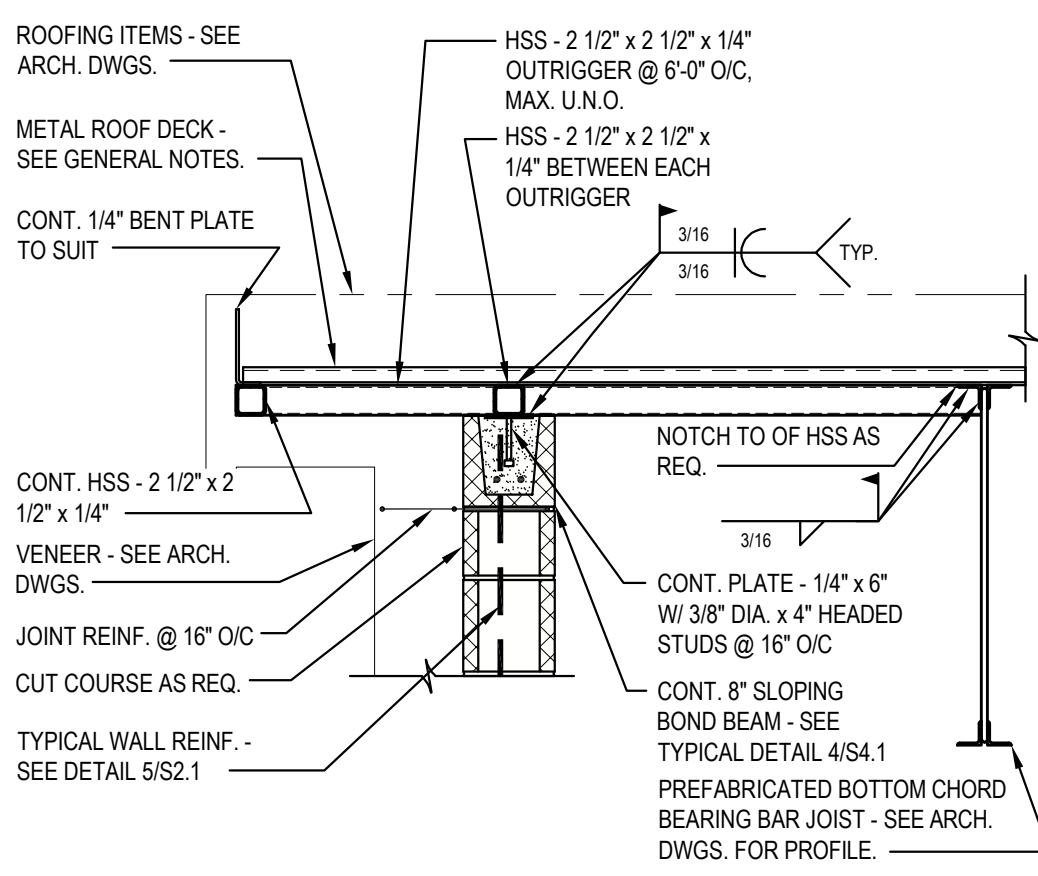
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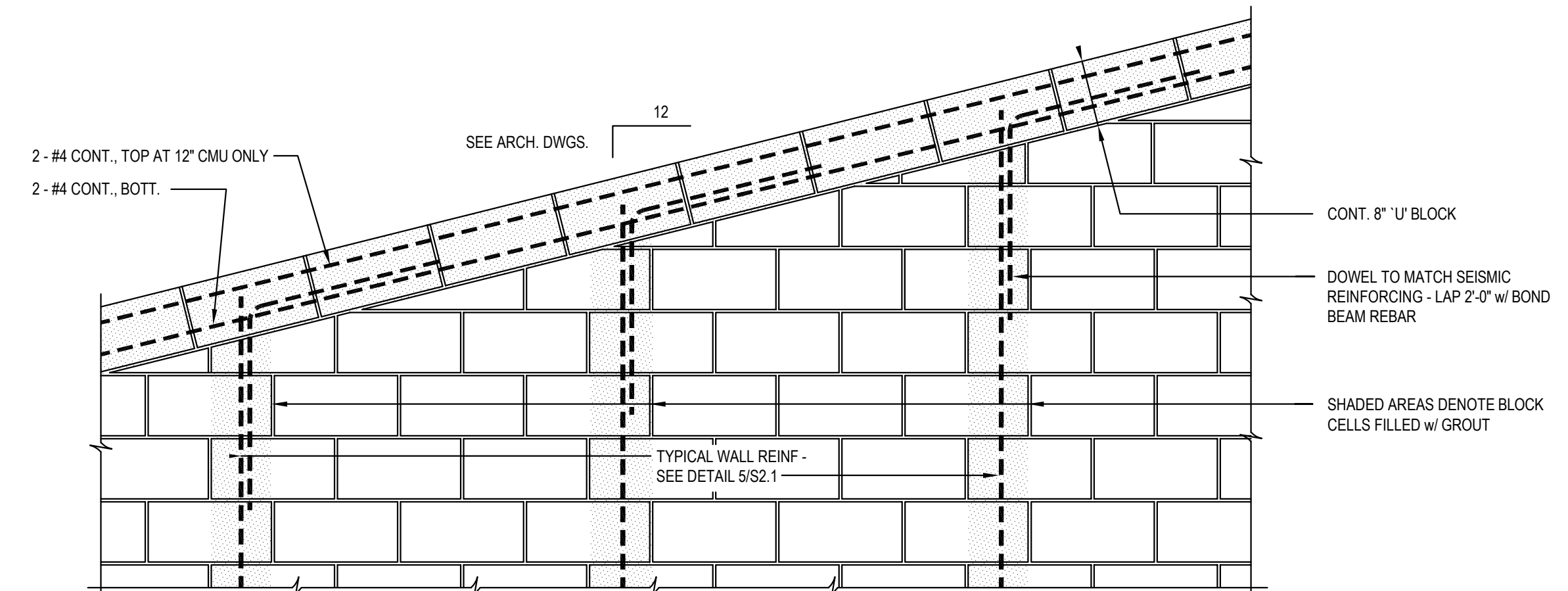
1 ROOF SECTION
S4.1 3/4" = 1'-0"
Dwg # 150535-57001.DWG



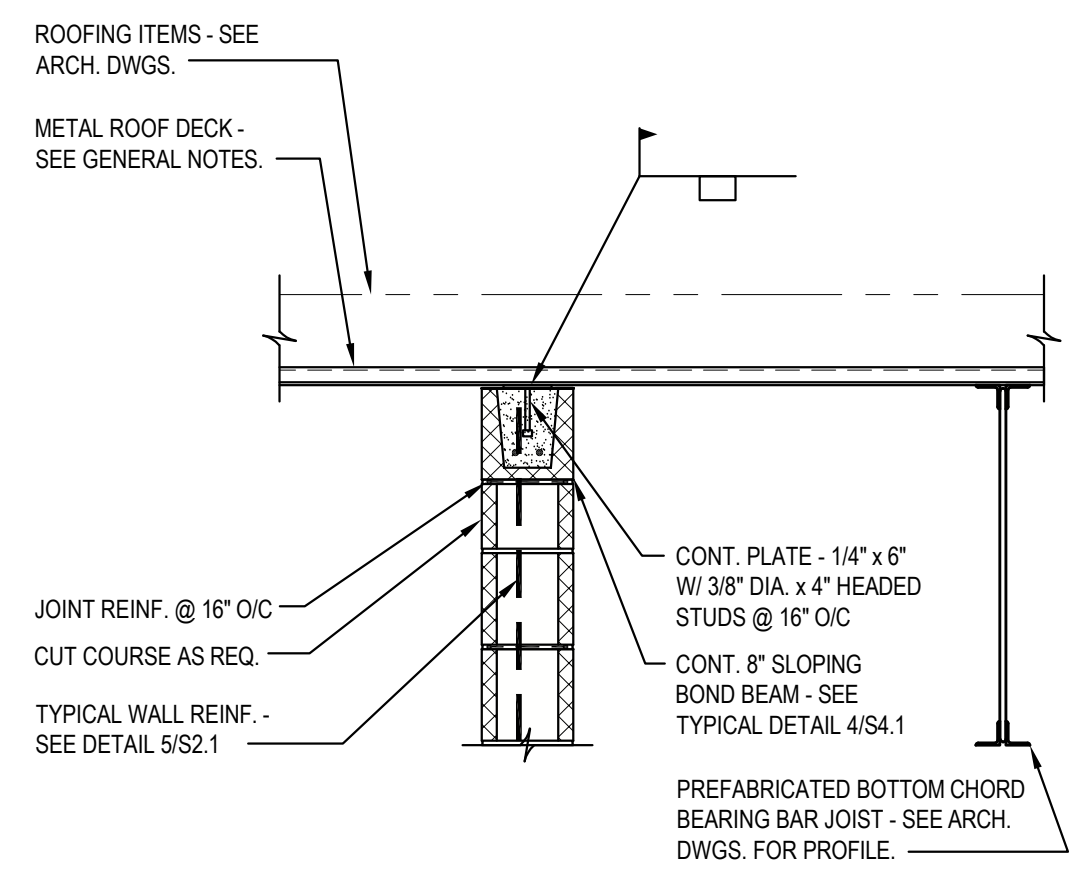
2 ROOF SECTION
S4.1 3/4" = 1'-0"
Dwg # 150535-57002.DWG



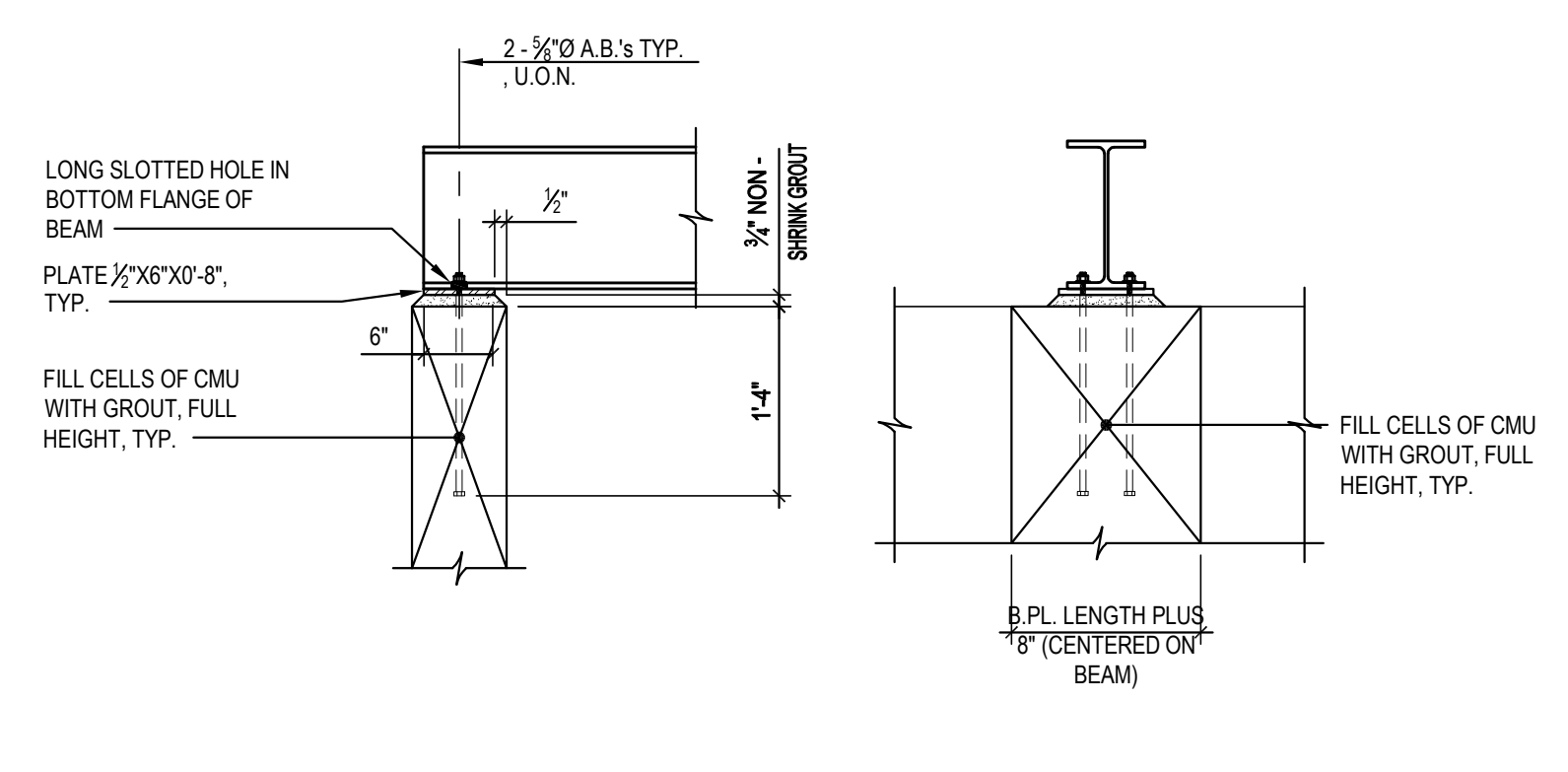
3 ROOF SECTION
S4.1 3/4" = 1'-0"
Dwg # 150535-57003.DWG



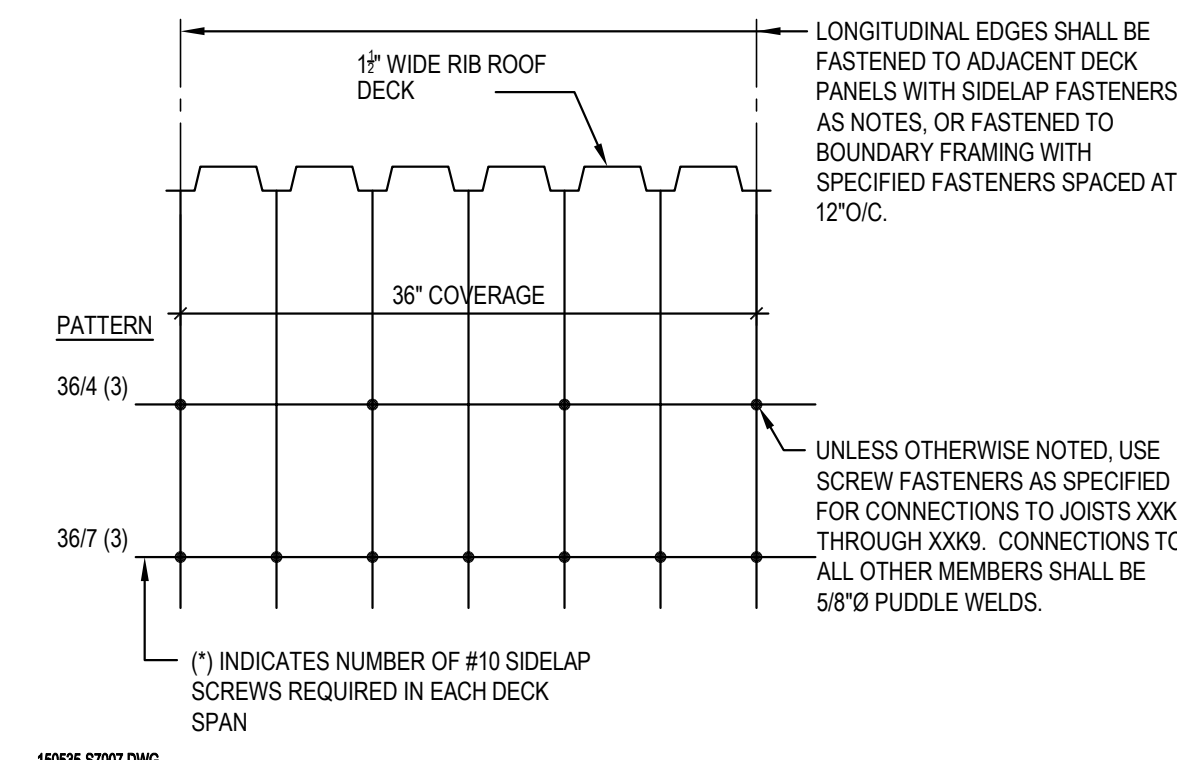
4 TYPICAL SLOPED 8" DEEP BOND BEAM ELEVATION DETAIL
S4.1 3/4" = 1'-0"
Dwg # 150535-57004.DWG



5 ROOF SECTION
S4.1 3/4" = 1'-0"
Dwg # 150535-57005.DWG

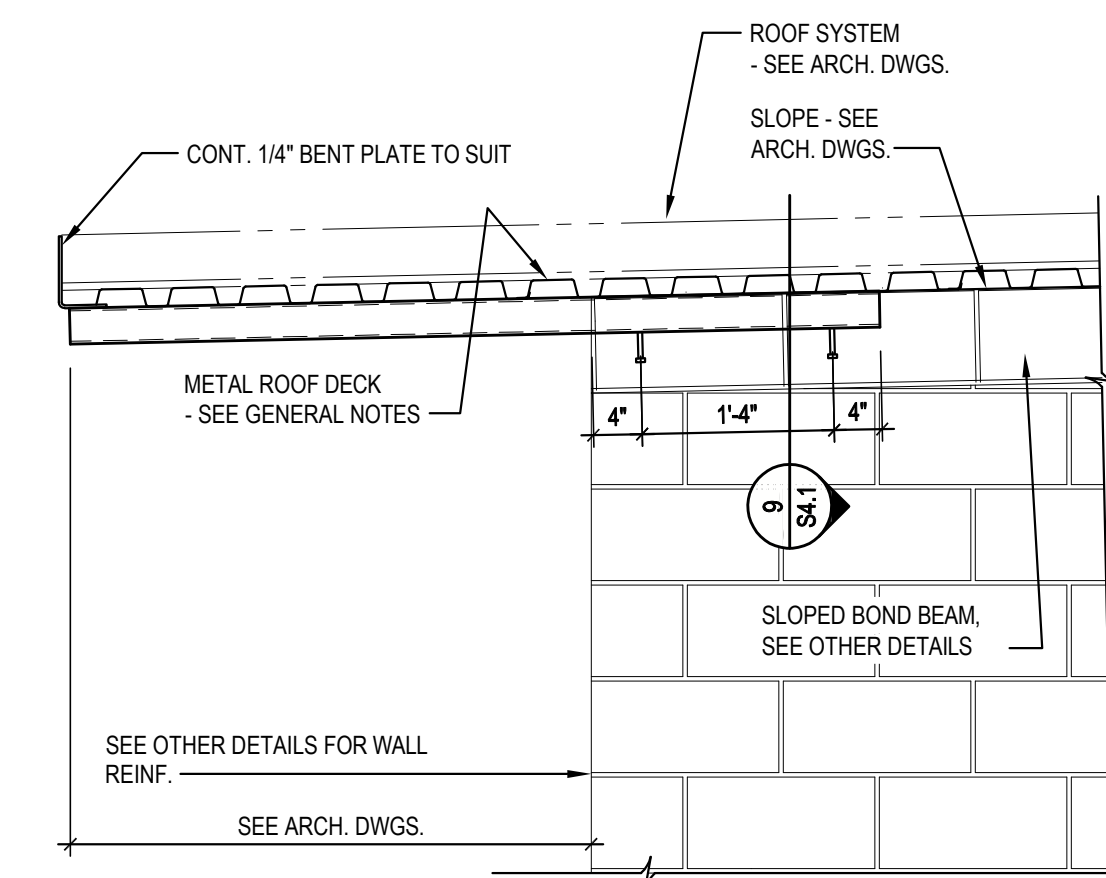


6 TYPICAL BEAM BEARING DETAILS
S4.1 3/4" = 1'-0"
Dwg # 150535-57006.DWG

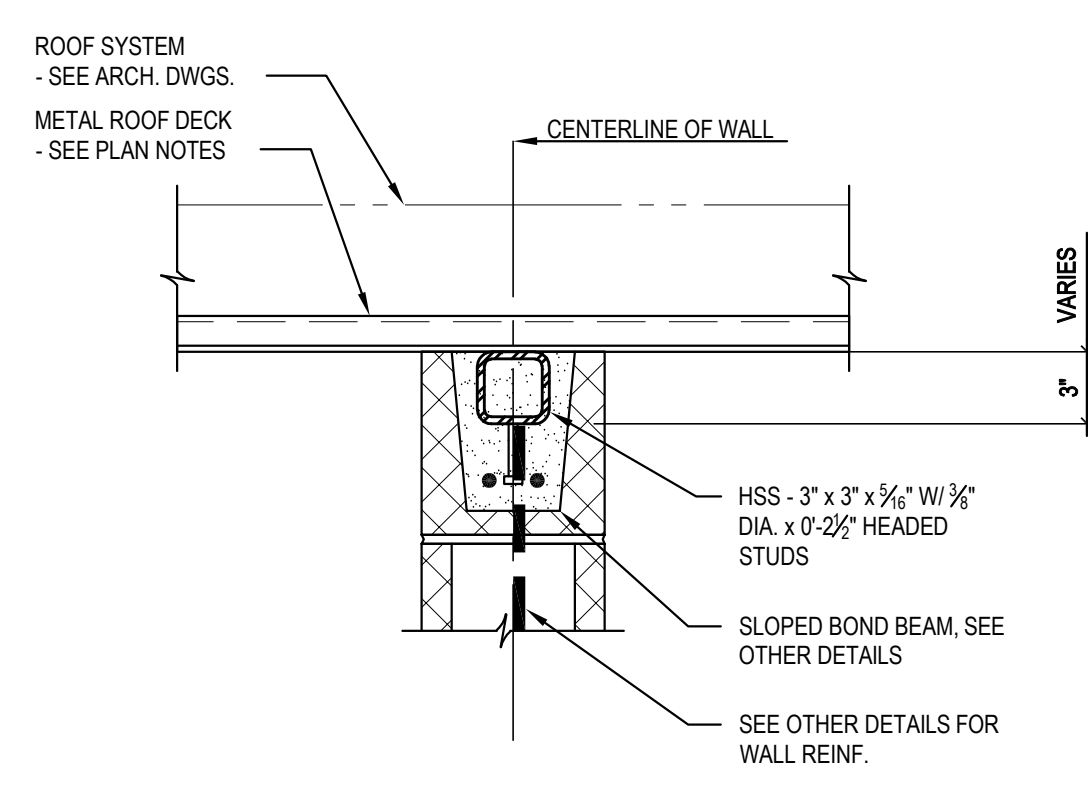


7 TYPICAL ROOF DECK FASTENER LAYOUT DETAIL
S4.1 1" = 1'-0"
Dwg # 150535-57007.DWG

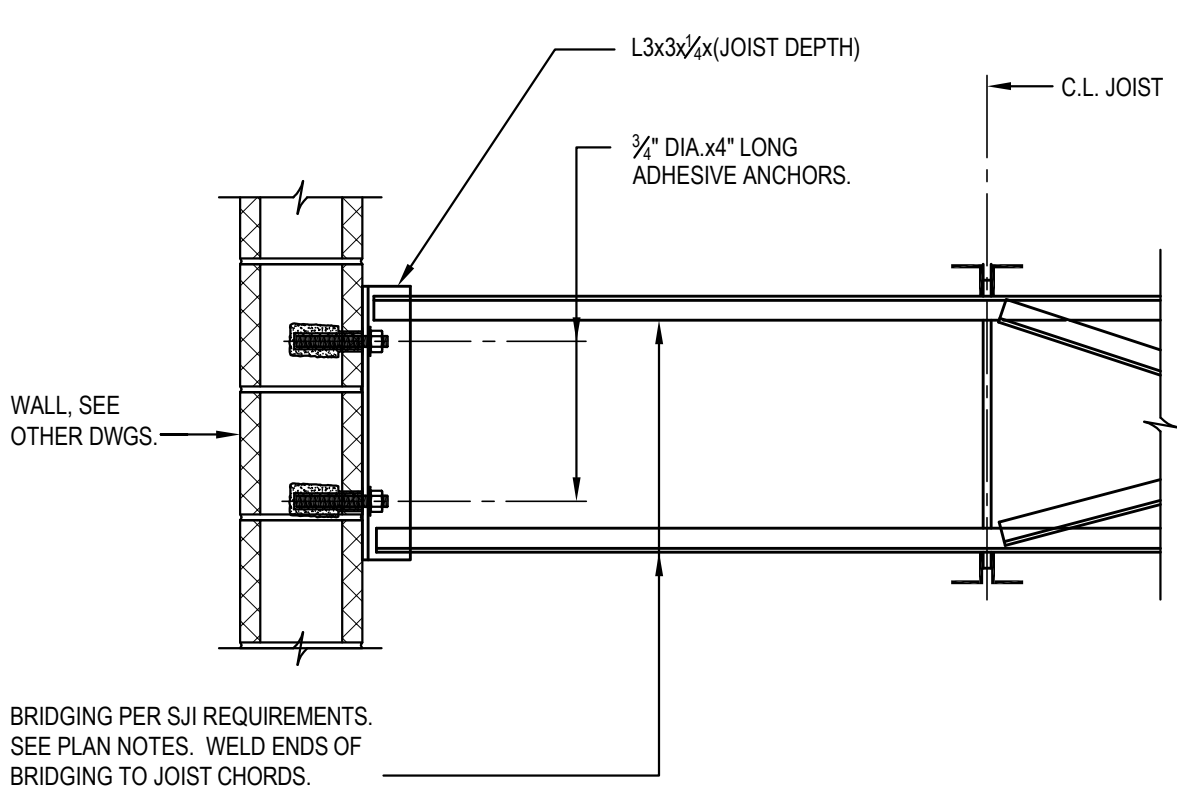
- ROOF DECK PLAN NOTES:
- UNLESS OTHERWISE NOTED, ROOF DECK SHALL BE DEPTH AND GAUGE AS NOTED IN ROOF DECK GENERAL NOTES.
 - WHEREVER POSSIBLE, DECK SHALL BE CONTINUOUS OVER A MINIMUM OF 3 SPANS. SEE ROOF DECK PLAN AND TYPICAL ROOF DECK FASTENER LAYOUT FOR DECK ATTACHMENT.
 - ALL EDGES OF ROOF DECK SHALL BE CONTINUOUSLY SUPPORTED. INSTALL MISCELLANEOUS STEEL AS REQUIRED. NO LOADS SHALL BE SUSPENDED FROM THE ROOF DECK.
 - COORDINATE WITH RELATED DRAWINGS THE SIZE AND LOCATION OF ANY OPENINGS REQUIRED THROUGH ROOF DECK, WHETHER SHOWN ON THE STRUCTURAL PLAN OR NOT. FRAME ALL OPENINGS GREATER THAN 6", INCLUDING ROOF DRAINS, WITH ANGLE FRAME. SEE TYPICAL DETAIL.
 - ROOF DECK SHALL BE ATTACHED TO ROOF FRAMING WITH 3/4" PATTERN UNLESS OTHERWISE NOTED. AT PERIMETER CMU WALLS, ROOF DECK SHALL BE ATTACHED WITH 3/4" PATTERN.



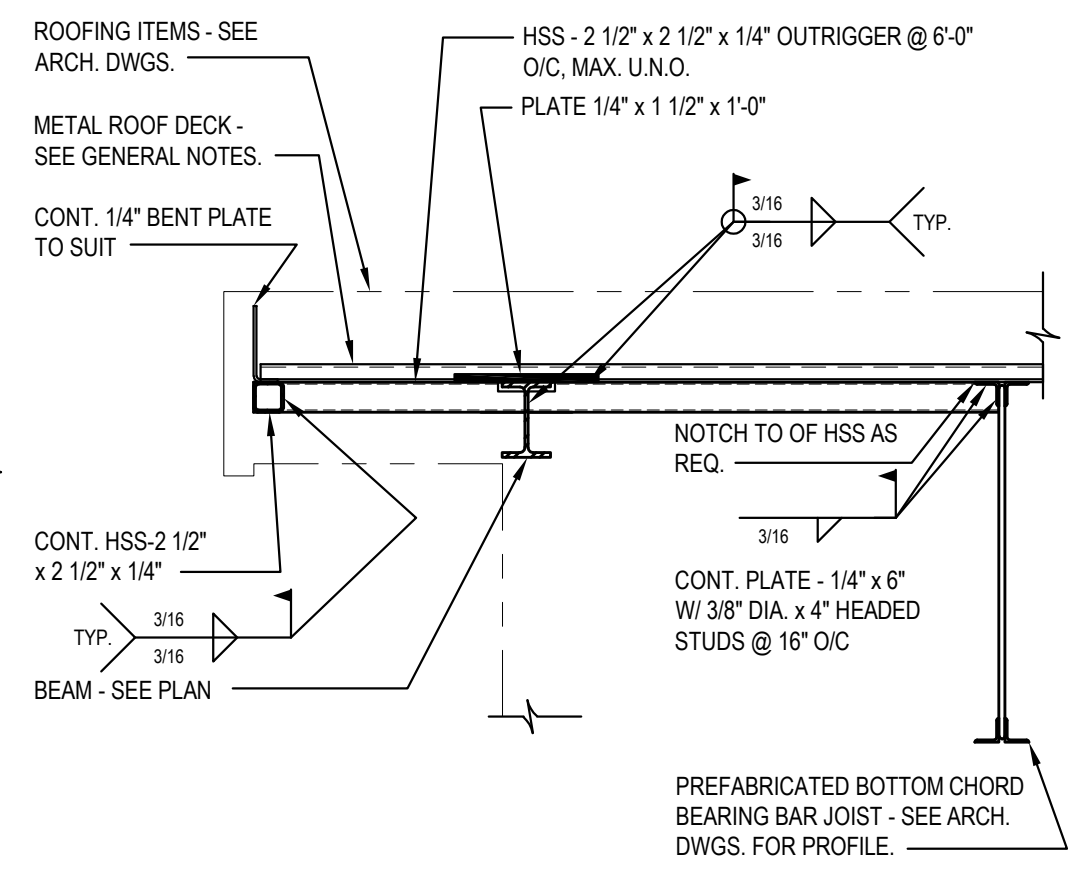
8 ROOF SECTION
S4.1 3/4" = 1'-0"
Dwg # 150535-57008.DWG



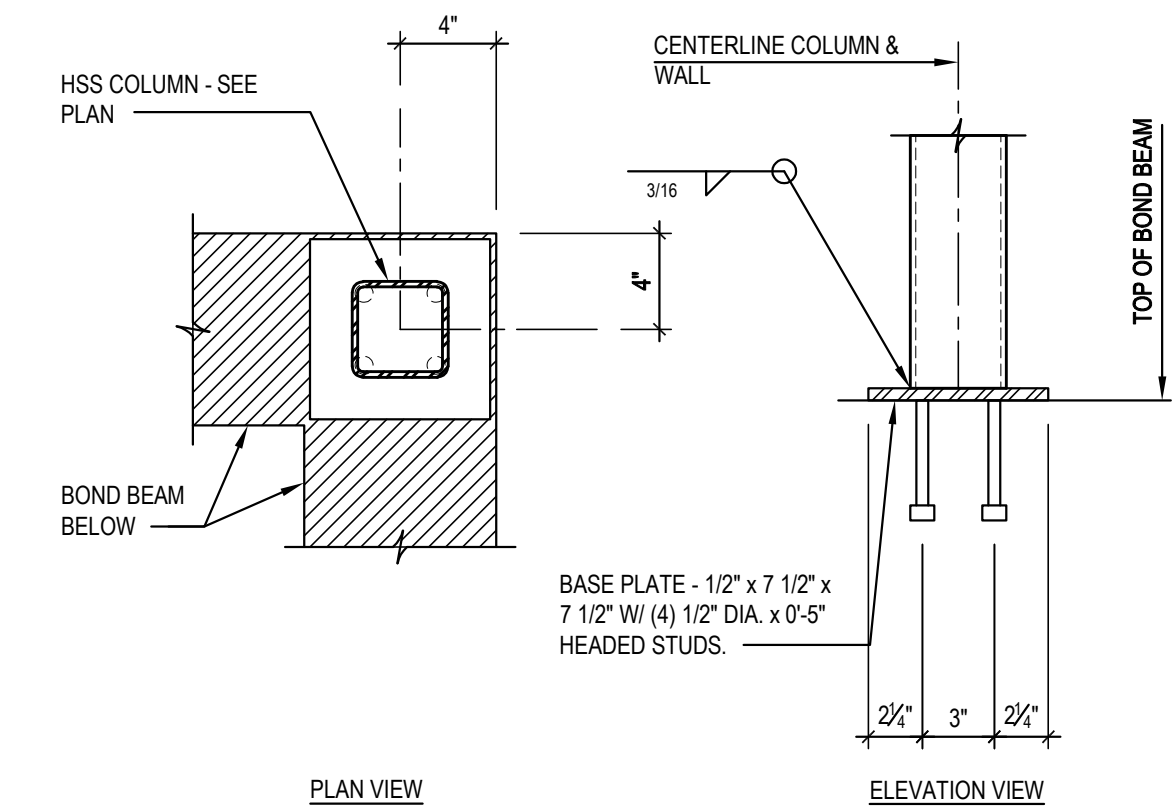
9 ROOF SECTION
S4.1 1 1/2" = 1'-0"
Dwg # 150535-57009.DWG



10 TYPICAL DETAIL JOIST BRIDGING ATTACHMENT DETAIL
S4.1 1" = 1'-0"
Dwg # 57009.DWG



11 ROOF SECTION
S4.1 3/4" = 1'-0"
Dwg # 150535-57011.DWG



12 COLUMN BASE PLATE PLAN DETAIL
S4.1 1 1/2" = 1'-0"
Dwg # 150535-57012.DWG



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Plotter:

PLUMBING SYSTEMS

PLUMBING GENERAL NOTES

- Supply piping shall be located in truss space, unless noted otherwise. All vertical supply, waste, and vent piping shall be located in walls or partitions, unless noted otherwise.
All piping and equipment shall be cleaned of foreign matter then cleaned-out under pressure before the system is put into operation.
Pipe testing: The storm drainage and sanitary waste and vent system shall be successfully tested with potable water and shall be proved tight under a water pressure of 10 FT of head for a period of 15 minutes.

WATER HEATERS

- The discharge from the relief valve of the water heater shall be piped full-size of the valve outlet pipe size to a point not more than 2" above the flood level of the pan.
Provide a 3" high (24 ga. min.) galvanized pan for each water heater. Pipe the drain pan to outside the building (or to another receptacle approved by the local authority) and terminate 6" to 24" above grade.
The plumbing contractor is responsible for coordinating electrical connection points and changes in the electrical requirements with the electrical contractor.

PLUMBING FIXTURES

- Water flow limiting devices will be provided on all plumbing fixtures to meet the maximum allowable water usage for plumbing fixtures as indicated below.

Janitor's Sink 2.2 gal/min.

PIPE MATERIALS AND INSTALLATION

WATER PIPING (INTERIOR)

Above Ground: Type L hard-drawn copper tubing with wrought copper fittings. ASTM B88-78. Alternate: CPVC after water heater where acceptable by code.

SOIL WASTE, VENT AND STORM

Sanitary and Vent: Hubless Cast Iron and fittings with approved clamps. ASTM c564-70 and CISPI 301-78. Alternate: Schedule 40 PVC where acceptable by code. Above Ground Storm (Sanitary alternate): Ductile Iron with Mechanical Joints (AWWA c151, class 51). Joints (ANSI/AWWA c111/a21.11).

FUEL GAS (ABOVE GROUND 2" AND SMALLER)

Pipe: Schedule 40 Black Steel pipe ASTM A53

Fittings: Threaded, 150 pound Malleable Iron ANSI B16.3

PIPE SIZES

- See fixture schedule, floor plans, and symbol legend for pipe sizing information.
See floor plans for building drain and main water service sizes;
All piping is sized according to the characteristics of the preferred piping materials. If alternate piping is used then the contractor is responsible for verifying that the velocities are maintained to the original design intent. Provide for allowance for expansion for hot water cpvc.

PIPE HANGERS AND SUPPORTS

- Place hangers within 12 inches of each horizontal elbow.
Use hangers with 1-1/2 inch minimum vertical adjustment. Design hangers for pipe movement without disengagement of supported pipe.
Support vertical piping at every floor. Support riser piping independently of connected horizontal piping.
Provide hangers adjacent to equipment so the equipment does not support any piping.
Support cast iron drainage piping at every joint.

PIPE HANGER SPACING (Fuel Gas Systems are to be treated no less important than other systems)

Table with 3 columns: PIPE MATERIAL, MAXIMUM HANGER SPACING Feet, HANGER ROD DIAMETER Inches. Lists materials like Cast Iron, CPVC, Copper Tube, Polypropylene, PVC, and Schedule 40 Steel with their respective spacing and rod sizes.

PIPE INSULATION

- All hot and cold water piping indicated to be run in truss space or in exterior walls shall be installed on the conditioned space side of the building insulation. Insulate all domestic water system pipes above ceilings and on outside walls with R-7 insulation or better.
Water piping shall not be installed in areas subject to freezing conditions. Note: Pipe insulation alone is not considered adequate freeze protection.
Insulate all domestic hot and cold water system pipes with 1" of 0.24-0.28 conductivity insulation. Insulation shall have a flame spread rating of not more than 25 and a smoke-developed index of not more than 50.
Provide insulation on all exposed piping under fixtures in accordance with ANSI and ADA guidelines.
No water piping shall be installed in unconditioned areas.

MAINTAIN PROPER SLOPE FOR INTERIOR AND EXTERIOR PIPE

- Slopes and invert elevations of exterior sewers, manholes, etc. shall be established and verified, by the plumbing contractor, before any piping is installed so that proper slopes will be maintained and necessary invert elevations obtained.
Slopes and invert elevations of all interior pipes shall be established before any piping is installed.
Sanitary sewer and storm drainage piping less than 4-inch shall be installed with a minimum slope of 1/4-inch per foot.
Domestic Hot and Cold water piping shall be sloped for drainage with drain valves installed at low points. Access panels shall be provided at concealed valves, water hammer arrestors and other devices.

SEISMIC

- The Contractor shall be responsible for providing sway bracing and restraints to resist the earthquake effects on the system in accordance with state and local codes and ordinances. Refer to the designer Building Code Summary of this project for the Seismic Performance Category and Seismic Design Parameters. Where seismic restraints are necessary then the restraints shall be designed and inspected by individuals specifically qualified in structural restraint methods. See specification 22 05 48 for specific requirements.

PLUMBING FIXTURE SCHEDULE

Table with columns: MARK, DESCRIPTION, W, V, C.W, H.W, REMARKS, NOTES. Lists fixtures such as EMERGENCY EYE WASH/ SHOWER, FLOOR DRAIN, JANITOR SINK, WATER HEATER, FREEZE PROOF HOSE BIB, HOSE BIBB, and FLOOR CLEANOUT.

- NOTES: 1. ROUGH ACCORDING TO ABOVE SCHEDULE UNLESS OTHERWISE INDICATED. 2. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.

PLUMBING LEGEND

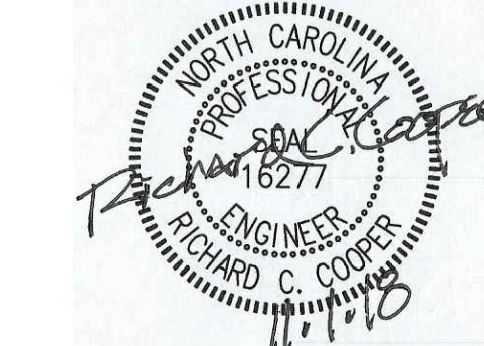
Legend defining symbols for EXISTING and NEW WORK, and ABBREVIATIONS for various plumbing components like DOMESTIC COLD WATER, SANITARY, VENT, VALVES, and CLEANOUTS.

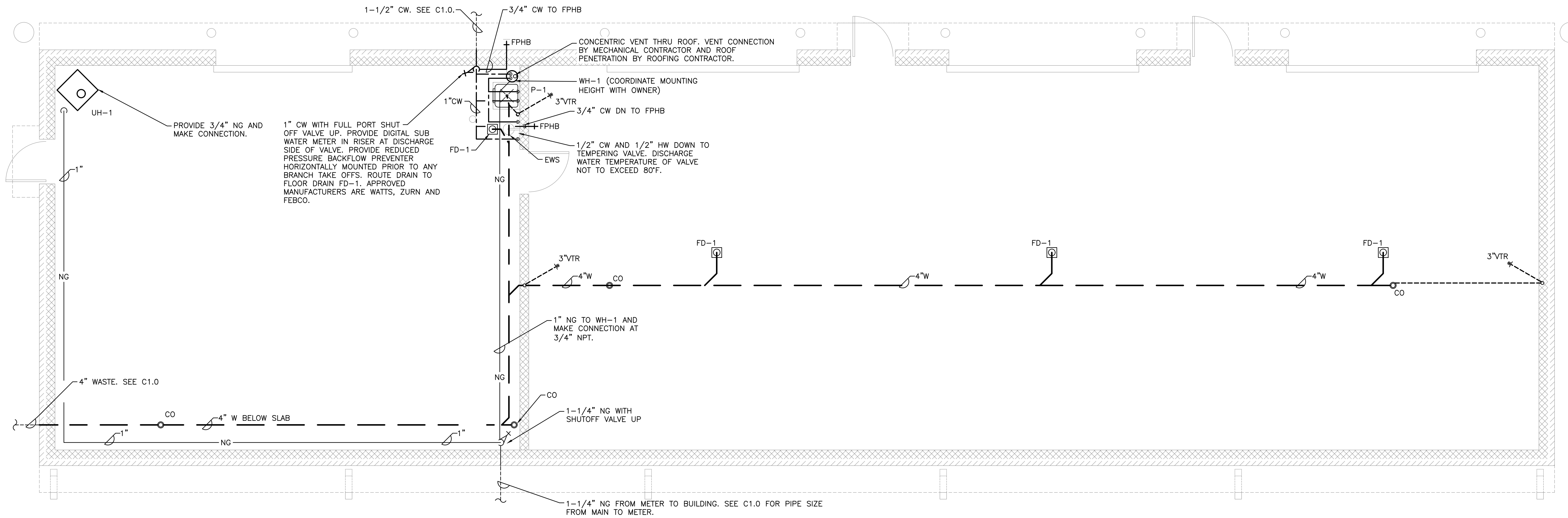
GENERAL LIST - ALL SYMBOLS MAY NOT BE USED.

QUALITY ASSURANCE

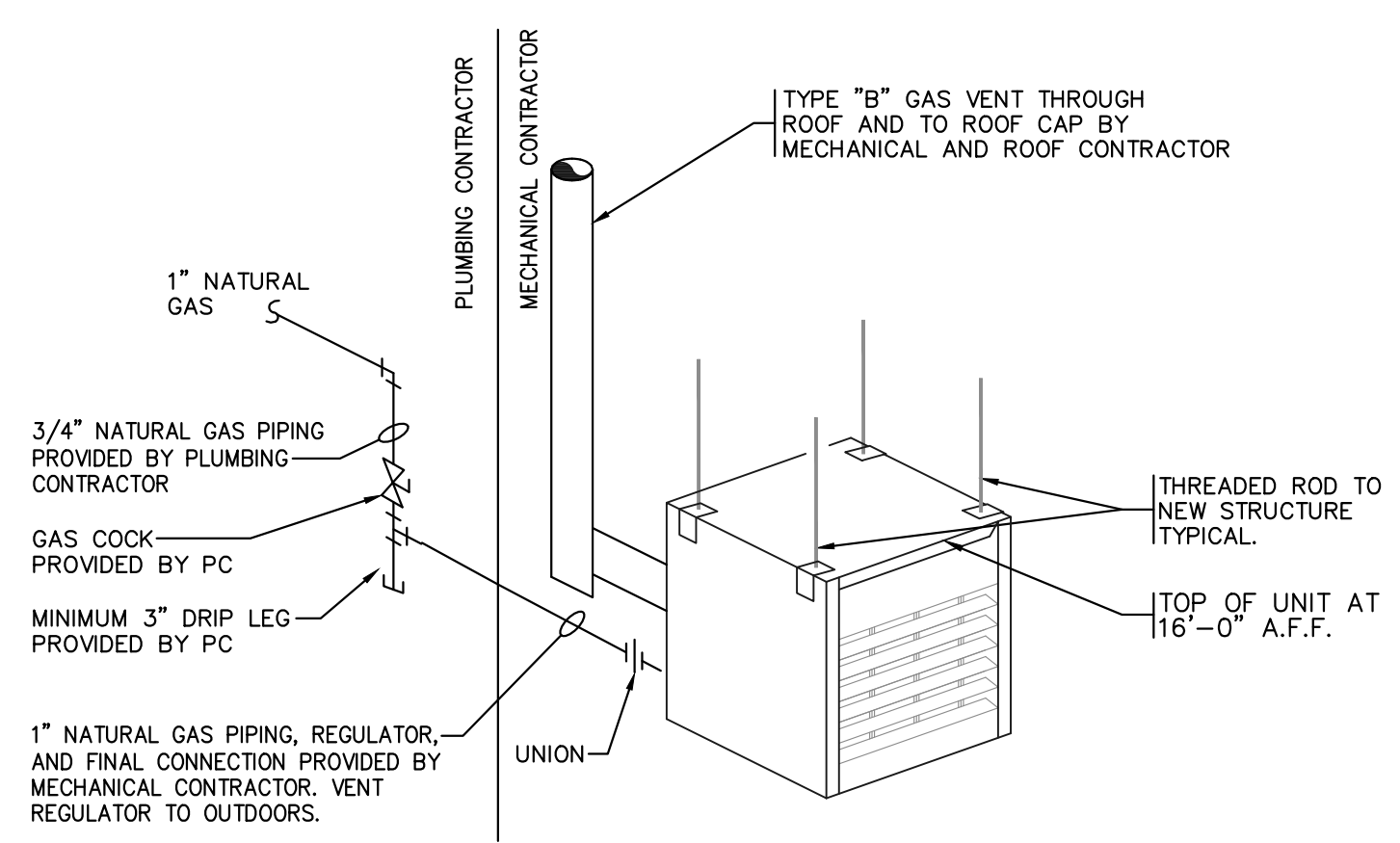
- All materials and equipment shall be installed and completed in a first class workmanlike manner. The Owner reserves the right to reject any damaged equipment and to direct the removal and replacement of any items, which in their opinion does not represent acceptable workmanship.
Plumbing equipment and accessories shall be inspected upon receipt and any damage reported immediately to the carrier and/or manufacturer for warranty services.
The Contractor shall be responsible to have touch-up or repainted all materials and equipment in his contract with a factory finish if it is observed marred, scratched or defaced at final acceptance of the building by the Owner.
The Contractor shall guarantee all materials, equipment and workmanship for a period of 12 months after date of final acceptance of building by the Owner's representative, or for 12 months after occupancy of Owner, or their tenants, should occupancy precede acceptance. All guarantee failures shall be corrected or replaced by the Contractor as soon as possible after notification of such failure.
Furnish the Owner with a complete booklet containing equipment engineering data, operating and maintenance instructions, and control wiring diagrams (indicating control equipment and function). In addition, the Contractor shall instruct Owner and/or their representatives on the proper operation and servicing of the equipment.

M&C MKIM & CREED logo and contact information: 370 N. Louisiana Ave. Suite F-3 Asheville, NC 28806. Includes project details and a disclaimer.

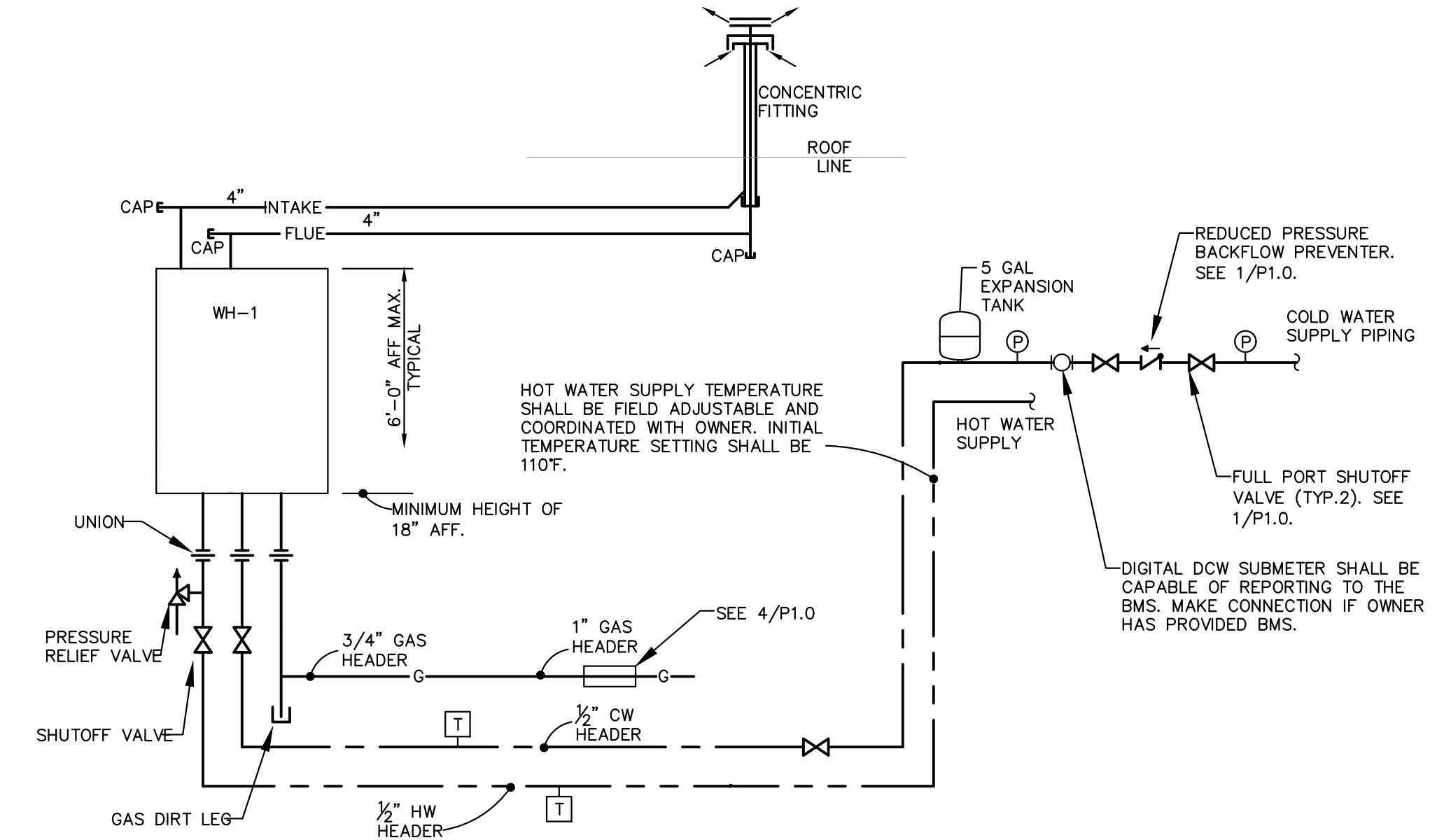




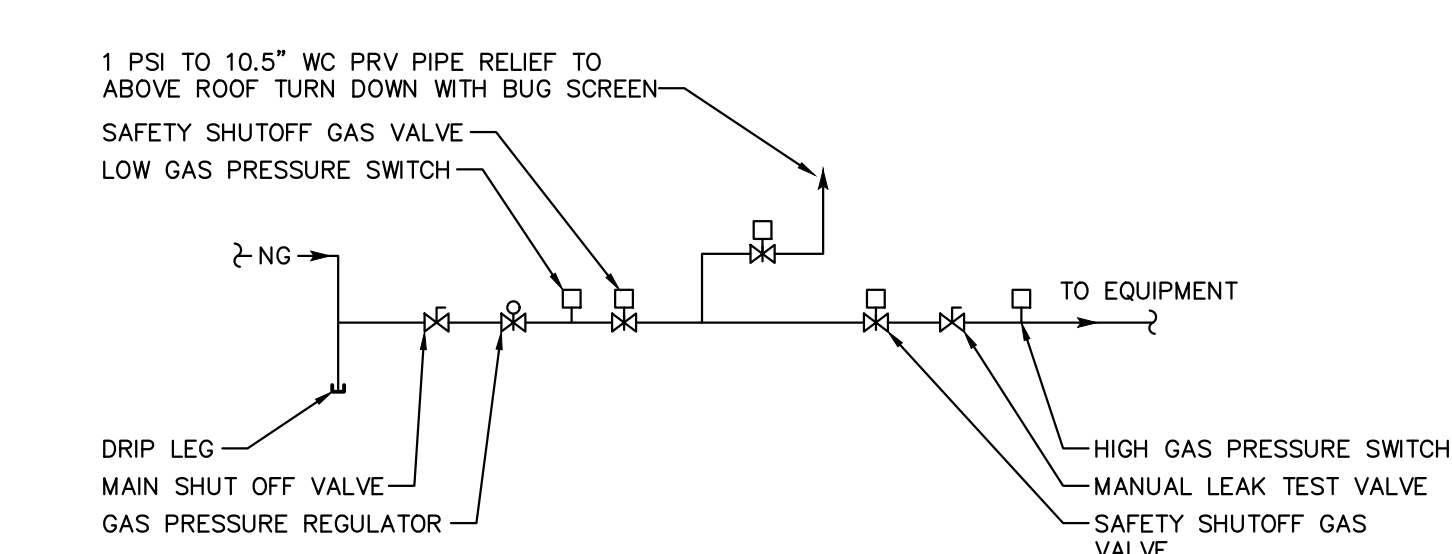
1 STORAGE SHED PLAN PLUMBING
 P1.0 SCALE : 1/4" = 1'-0"



2 NG UNIT HEATER DETAIL
 P1.0 SCALE : NTS



3 TANKLESS WATER HEATER DETAIL
 P1.0 SCALE : NTS



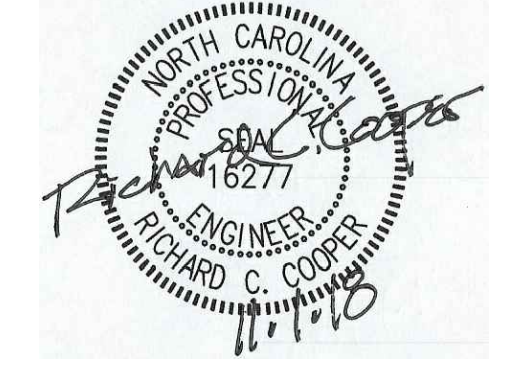
4 TYPICAL GAS TRAIN- FM APPROVED
 P1.0 SCALE : NTS

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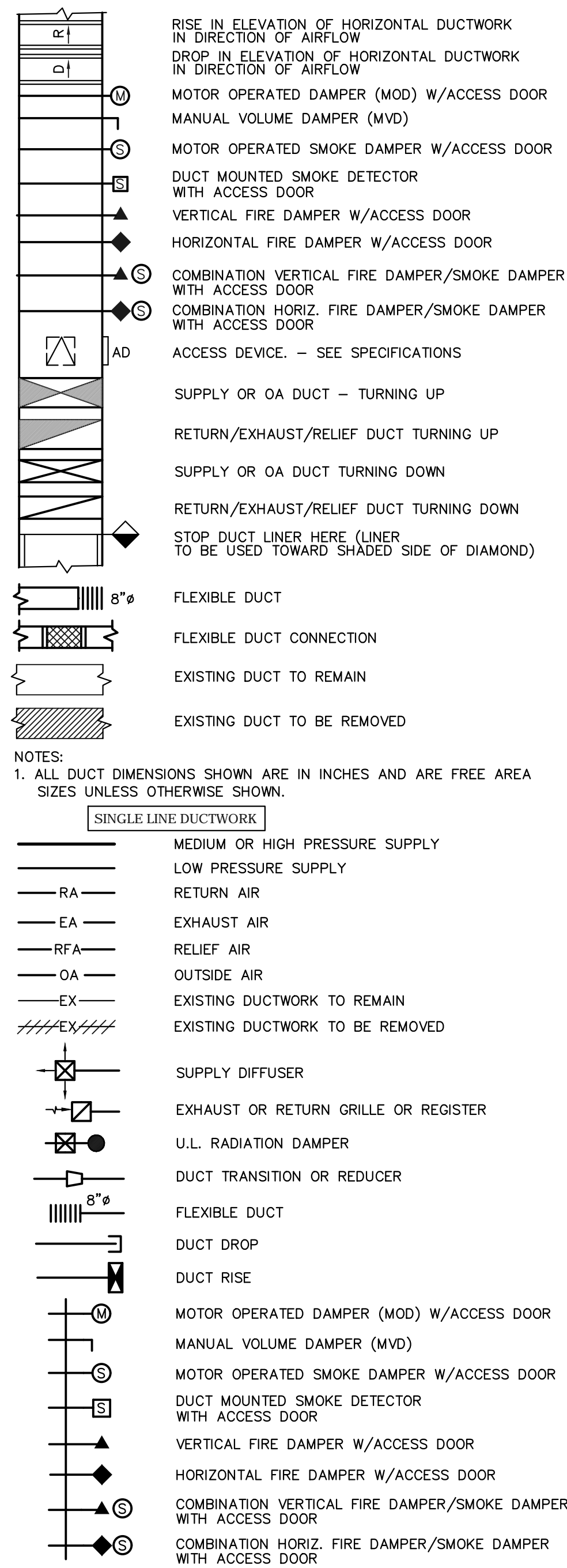
Designed RCC Drawn DAC
 Checked RCC Date 11/01/18
 Project No. 07002-0001

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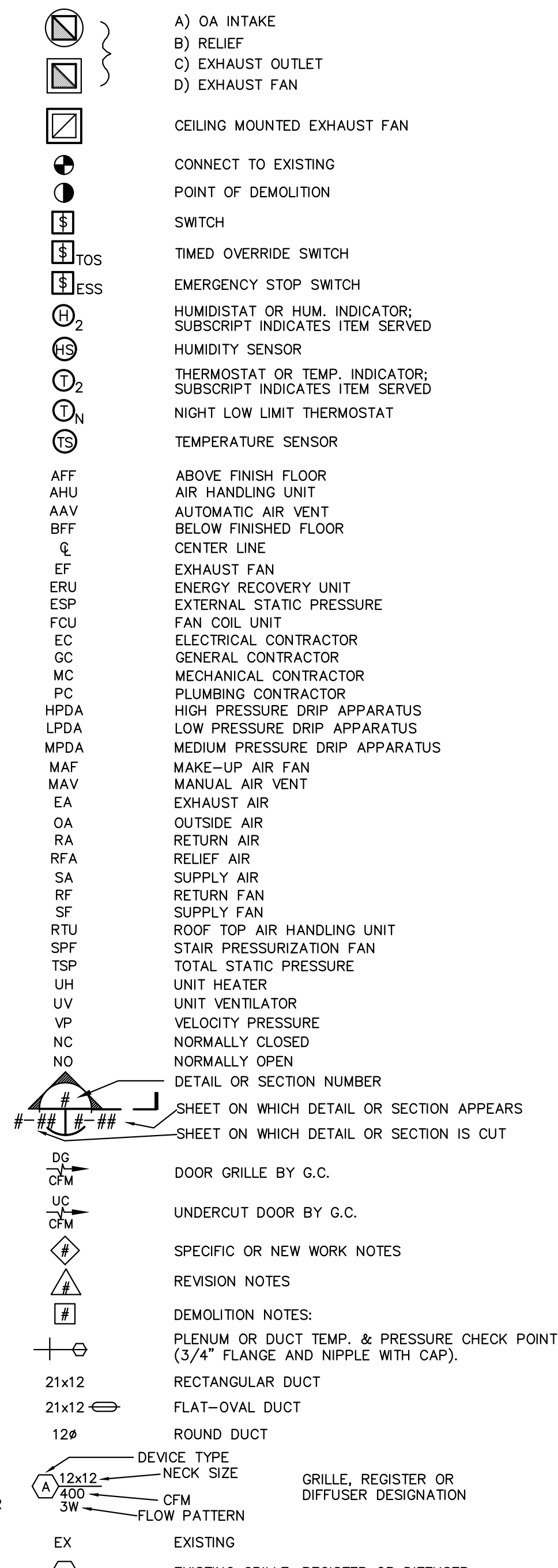


HVAC LEGEND

DUCTWORK SYMBOLS



MISCELLANEOUS SYMBOLS AND ABBREVIATIONS



GENERAL NOTE: ALL ITEMS IN LEGEND MAY NOT BE REQUIRED ON THIS PROJECT

MECHANICAL SYSTEMS

HVAC GENERAL NOTES

- The HVAC Contractor is to provide all labor, equipment and materials for a complete heating, air conditioning and exhaust air systems as indicated with the Engineer's design documents. This shall include (not limited to) the following:
 - Exhaust System
 - Heating System
 - Hangers
 - Controls
- Do not scale drawings. See architectural drawings and reflected ceiling plan for exact location of doors, windows, ceiling diffusers, etc. Contractor shall consult Architectural, Electrical, Plumbing and Structural drawings for all dimensions, ceiling heights, beam depths, location of partitions, kind and number of fixtures or pieces of equipment, structural member locations, etc.
- Locate all thermostats 48" above the finished floor, unless otherwise noted.
- Anything contained in these documents that conflicts with the code shall be installed in accordance with the code and such conflicts shall be brought to the attention of the Engineer for clarification.
- It is the intention of these drawings to cover all work for a complete first class mechanical installation. Any equipment, trim hardware and/or devices usually utilized in the class of work, though not specifically mentioned or shown on the drawings, but which may be necessary for the satisfactory completion of the work (as determined by the Architect) shall be furnished and installed by the HVAC Contractor as part of his total work.
- The Contractor shall examine the site and be familiarized with all existing conditions as is required to enable him to carry out installation. The Contractor's failure to comply with this requirement will not relieve him of the responsibility of any errors, which might have been avoided by his compliance.
- Contractor shall coordinate his work and the installation of his work with the other Contractors and should any condition arise where the work of this Contractor shall interfere with, or prevent proper and satisfactory installation, the Contractor shall be responsible for working out such problems to allow proper installation. Should such interference involve changes in the plans and/or specifications, the Contractor shall notify the Architect and Engineer in writing before proceeding with changes. Ductwork shall take precedence over any conflicting piping in same area.
- The Contractor shall be responsible for all work damaged by him in executing contract. All work damaged by the Contractor shall be replaced by him and placed in normal working condition without extra cost. Any construction work damaged shall be made acceptable to the Architect, Engineer, and Owner. The Contractor shall, at all times, be responsible for any damaged equipment or work in conjunction with executing the contract. The HVAC Contractor shall repair, replace, or repaint to match existing surfaces damaged by the HVAC Contractor during installation of mechanical equipment.
- The cutting of chases, openings or holes in walls and cutting of holes in floors and ceilings shall be done in a manner, as not to endanger the stability of the structure and any such work shall be coordinated with other contractors. All penetrations through fire rated assemblies shall be sealed with UL listed material that will maintain the integrity of the assembly fire rating.
- The Contractor shall keep the premises and points at the building free of rubbish and waste material associated with the installation of the work. Remove from the jobsite any materials not economically recoverable. Any materials removed from the jobsite and sold for salvage shall be credited to the Owner's account.
- All materials used shall be new unless otherwise shown or called for, and shall be furnished in accordance with the standard specification of the American Society for Testing Materials, the American Society of Mechanical Engineers, and other guide specifications.
- Drawings are based on first manufacturer named on drawings or in specifications. Contractor shall bear any costs altering any other contract or subcontract resulting from a substitute of equipment for that specified or on which drawings and specifications are based. When no manufacturer is named, Contractor may submit any reputable, quality manufacturer that meets all codes, criteria and performance requirements of the design documents.
- The drawings are diagrammatic and shall be followed as closely as possible. However, the contractors shall be responsible to coordinate their installation and work out interference that might occur among themselves. Should interference occur, the Engineer will assist in working them out in the best interests of all contractors concerned and with as little change in the systems as originally planned as possible. The drawings indicate major offsets but by no means indicate all such situations. Should Contractor elect to prefabricate ductwork or piping, he shall do so at the risk of having to make field changes to avoid structure or other trades at his own expense. Owner, Architect, and Engineer shall not be liable for extra expenses involved because of the Contractor's failure to include adequate allowance in his price for such field problems.
- All motor driven equipment under this contract shall operate under continuous maximum demands on the respective systems without objectionable noise or vibration in any portion of the system. The Architect and Engineer shall reject any noisy motor driven equipment.

ELECTRICAL WORK

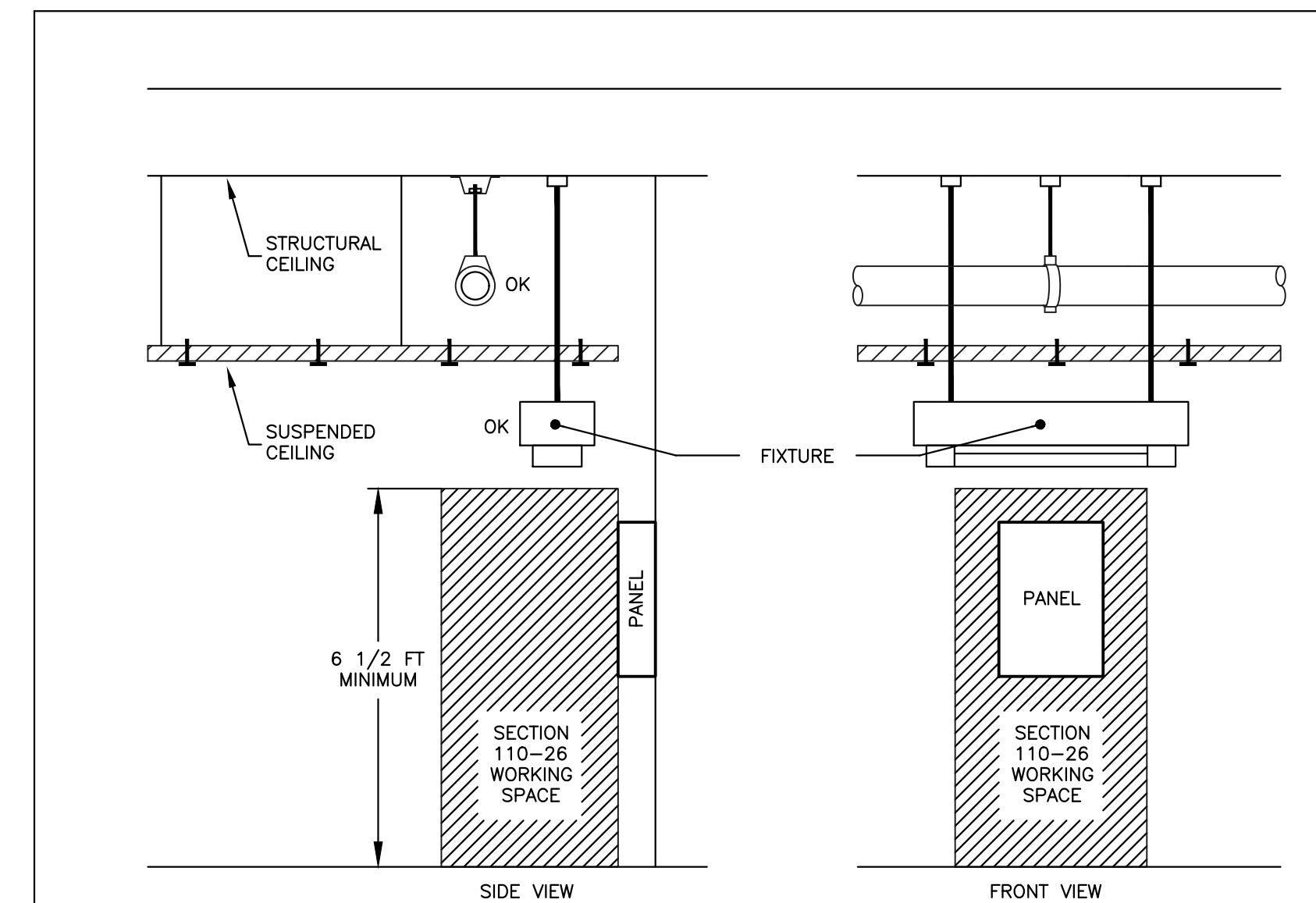
- The HVAC Contractor shall furnish and install all motors, controls, control wiring, contactors and starters for all equipment in this section of work. Starters and switches shall be best grade Square-D, Westinghouse, G.E. or Allen Bradley rated for motors and conforming to electrical specifications. Provide thermal protection for each motor. Provide only the power wiring specifically called for under each item of equipment. All other power wiring is in the electrical contract. Disconnects not provided by the Electrical Contractor shall be provided by this contractor.
- Electrical work shall be performed by an approved subcontractor qualified and licensed in electrical work. Raceways, conductors and installation requirements shall conform to the requirements of the N.E.C. and the electrical division requirements of this project. Motor connections at motor terminals shall not be made until rotation, horsepower and phase ratings, and ratings of any required thermal heaters have been verified and approved as correct for the installation.
- Motors shall be of sufficient size for the duty to be performed and shall not exceed their full rated load when the driven equipment is operated at specified capacity under the most severe conditions likely to be encountered. Motors shall have continuous duty classification based on 40°C ambient temperature.

QUALITY ASSURANCE

- All materials and equipment shall be installed and completed in a first class workmanlike manner. The Owner reserves the right to reject any damaged equipment and to direct the removal and replacement of any items, which in their opinion, shall not represent acceptable workmanship. Such removal and replacement shall be done when directed by the Owner and without additional cost to the Owner.
- Mechanical equipment and accessories shall be inspected upon receipt and any damage reported immediately to the carrier and/or manufacturer for warranty services. The HVAC Contractor shall be responsible to have touch-up or repainted all materials and equipment in this contract with a factory finish if it is observed marred, scratched or defaced at final acceptance of the building by the Owner.
- The Contractor shall guarantee all materials, equipment and workmanship for a period of 12 months after date of final acceptance of building by the Owner's representative, or for 12 months after occupancy of Owner, or their tenants, should occupancy precede acceptance. All guarantee failures shall be corrected or replaced by the Contractor as soon as possible after notification of such failure.
- Furnish the Owner with a complete booklet containing equipment engineering data, operating and maintenance instructions, control wiring diagrams (indicating control equipment and function). In addition, Contractor shall instruct Owner and/or their representatives on proper operation and servicing of equipment.

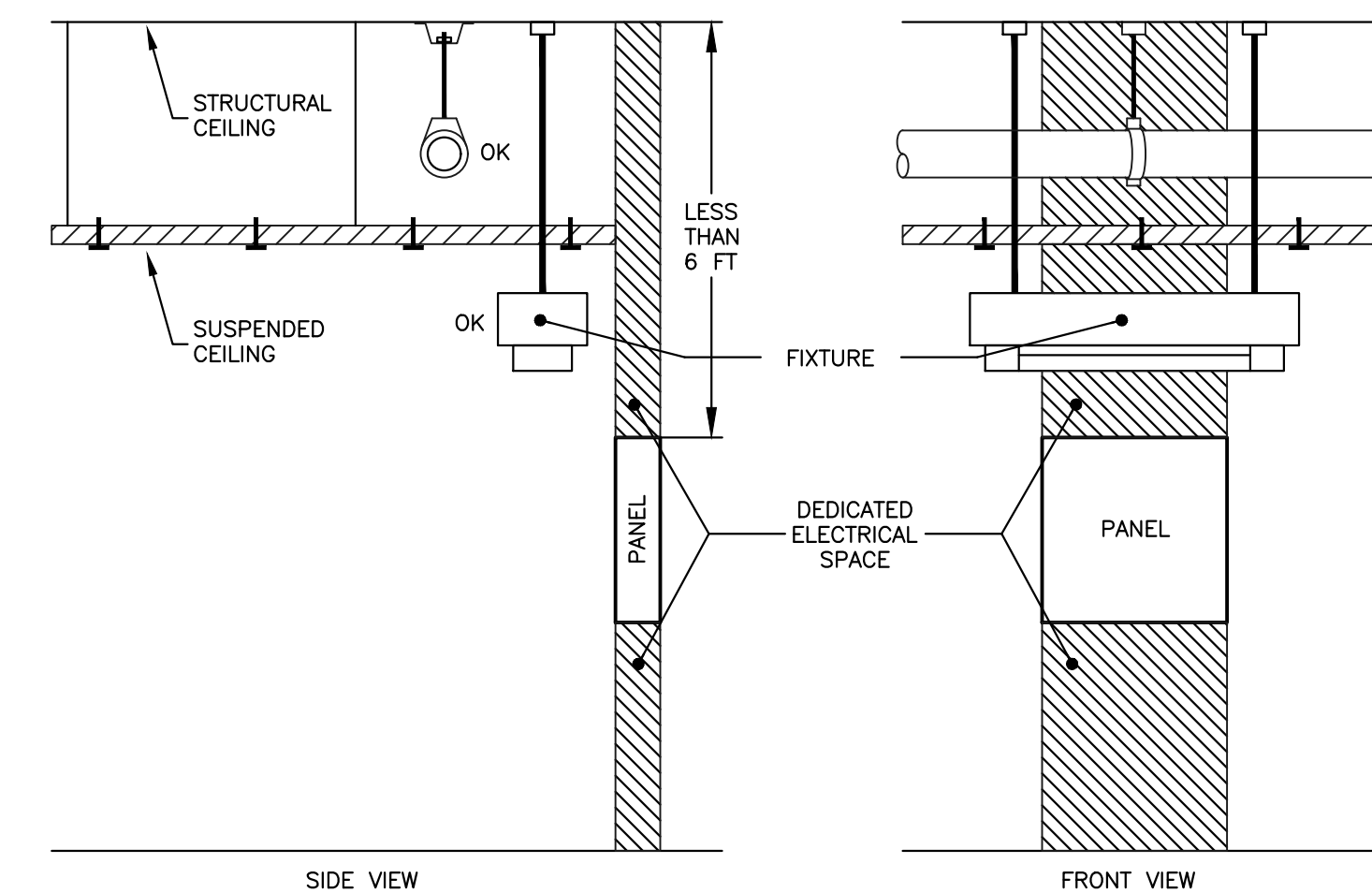
EQUIPMENT NOTES

- All electrical equipment shall bear the UL approved mark.
- All HVAC and refrigeration equipment shall comply with the following standards: ASHRAE; ANSI; NFPA 90A; NFPA 90B; and NFPA 214. Manufacturer's instructions shall remain attached to each associated appliance in a position to be easily read. All equipment shall be provided with permanent factory labels.
- Equipment shall be located so as to allow adequate clearance for maintenance and service. Allow sufficient working area for component removal.



NOT TO SCALE

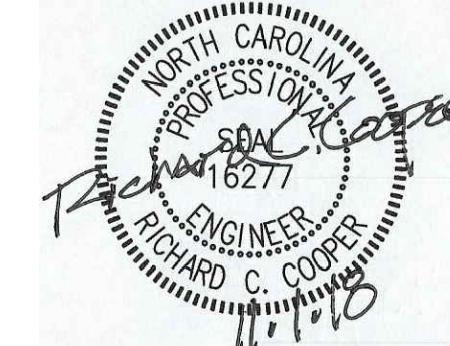
1 WORKING CLEARANCE FOR ELECTRICAL EQUIPMENT

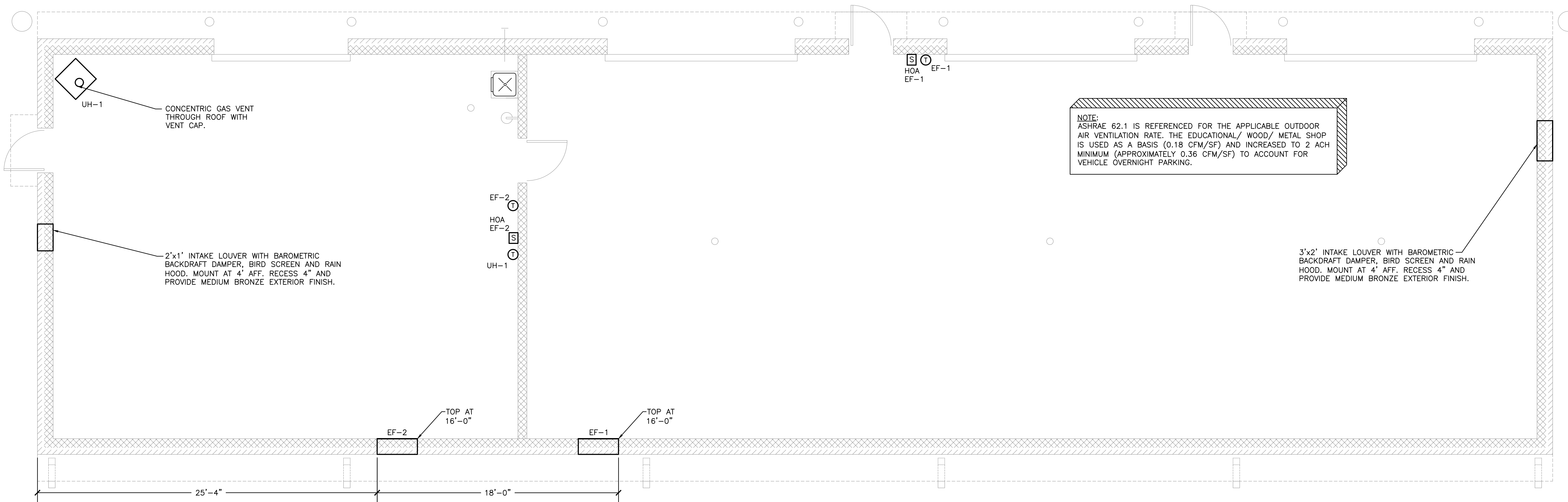


NOT TO SCALE

2 DEDICATED SPACE FOR ELECTRICAL EQUIPMENT

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 Designed: RCC Drawn: DAC
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1 STORAGE SHED PLAN HVAC
M1.0 SCALE : 1/4" = 1'-0"

SIDEWALL EXHAUST FAN SCHEDULE							
MARK	TYPE	SERVICE	CFM	E.S.P. (" W.G.)	ELECTRICAL VOLTS #	MANUFACTURER/ MODEL NO.	REMARKS (NOTES)
EF-1	SIDEWALL	MAINT. STORAGE	800	0.25"	120 1	COOK XPD-10	1-8, 9
EF-2	SIDEWALL	STORAGE	300	0.25"	120 1	COOK XPD-10	1-8

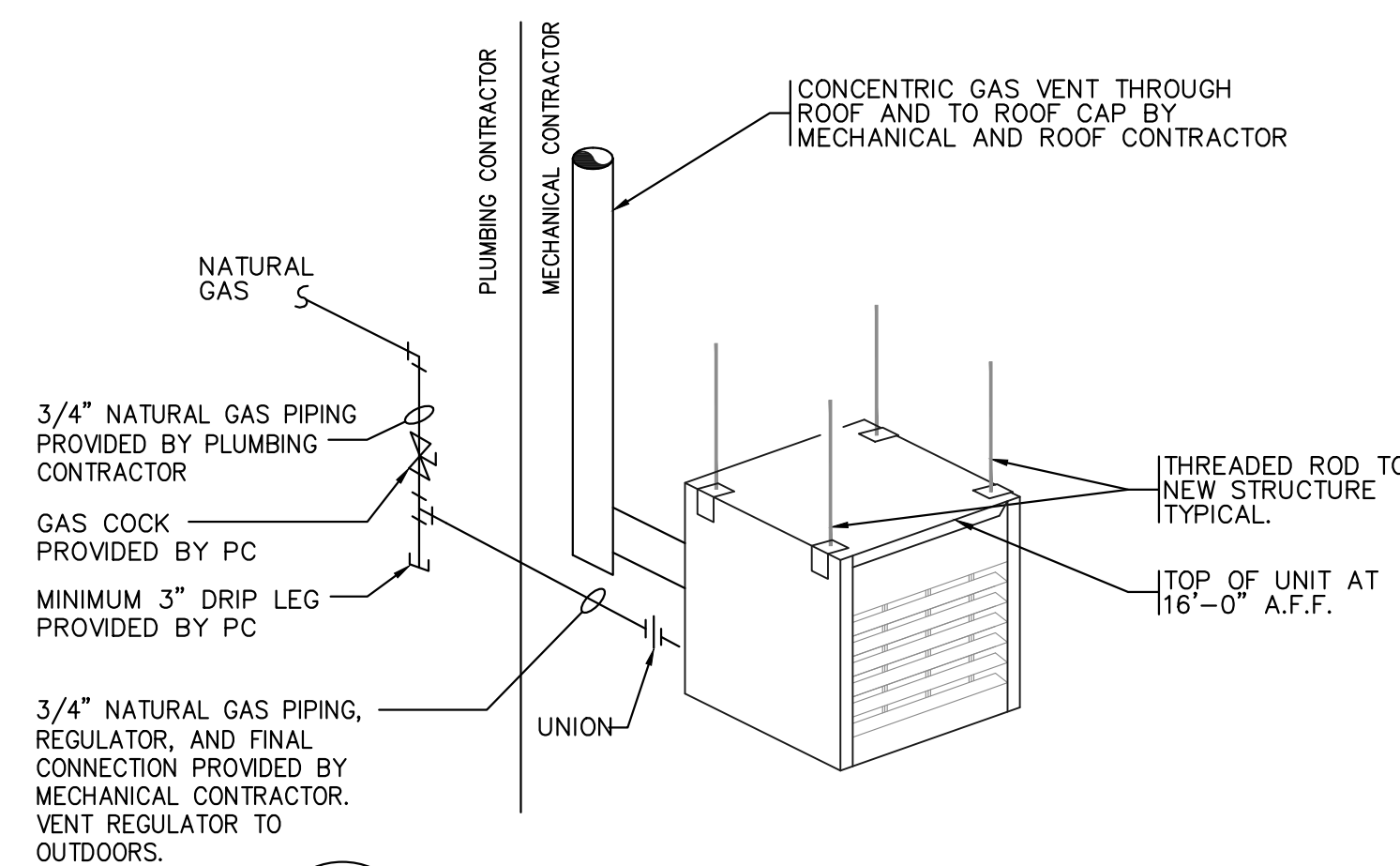
NOTES:

1. PROVIDE U.L LISTED FACTORY INSTALLED DISCONNECT SWITCH.
2. PROVIDE GRAVITY BACKDRAFT DAMPER
3. PROVIDE BIRDSCREEN.
4. PROVIDE U.L. LABEL.
5. PROVIDE H.O.A. WALL SWITCH, AUTOMATIC MODE CONTROL IS THROUGH THERMOSTAT.
6. APPROVED EQUALS BY GREENHECK AND BARRY ARE ACCEPTABLE.
7. PROVIDE RAIN HOOD.
8. EF-1 AT 1/8 HP AND EF-2 AT 1/20 HP
9. CONTROL WITH OCCUPANCY SENSOR AND HOA SWITCH. SEE E1.0.

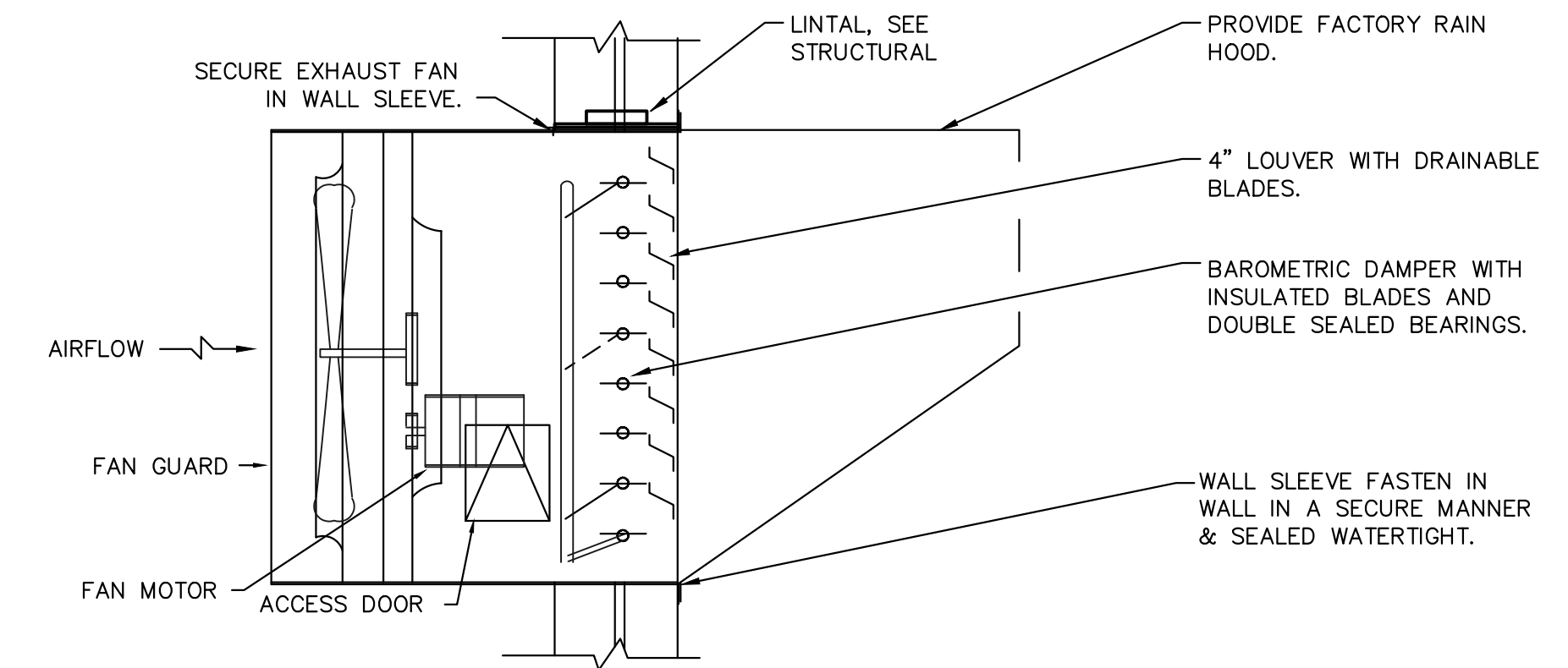
NATURAL GAS UNIT HEATER SCHEDULE								
MARK	CFM	MBH OUTPUT	GPM	MOTOR			MANUFACTURER/ MODEL NO.	REMARKS
				HP	VOLTS	PH		
UH-1	2870	160	NA	1/4	120	1	MODINE PDP 200	1-5

NOTES:

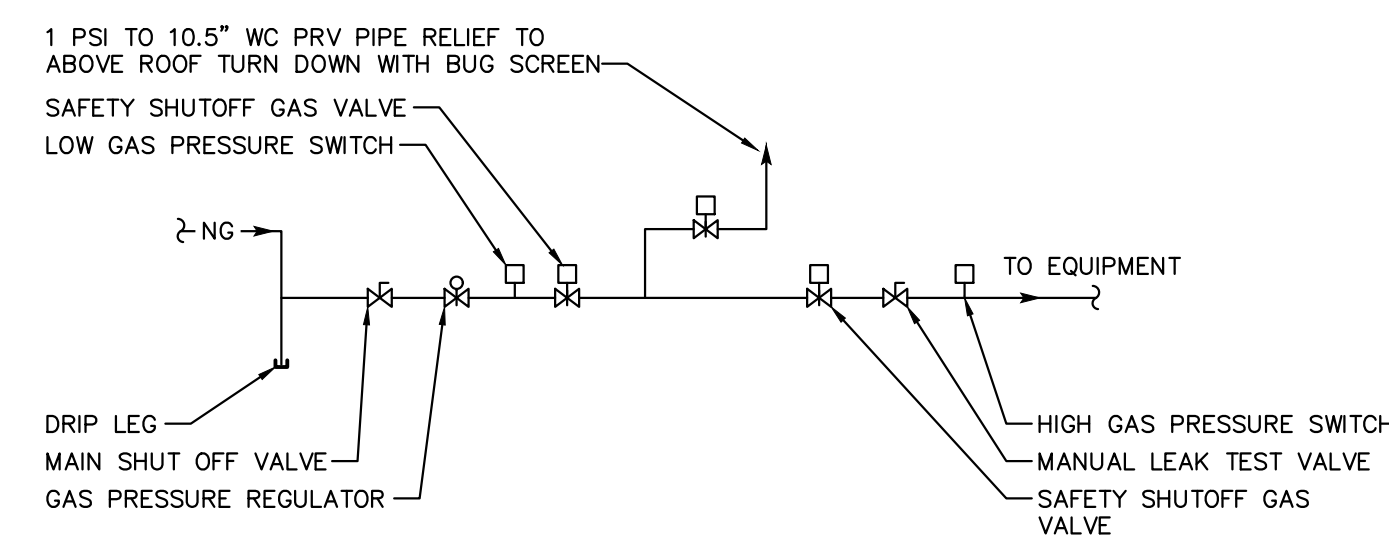
1. PROVIDE REMOTE THERMOSTAT
2. 80% EFFICIENCY. NATURAL GAS.
3. PROVIDE FM APPROVED NATURAL GAS TRAIN.
4. PROVIDE U.L. LABEL.
5. EQUALS BY STERLING AND TRANE ARE APPROVED.



2 NG UNIT HEATER DETAIL
M1.0 SCALE : NTS



3 SIDEWALL EXHAUST FAN DETAIL
M1.0 SCALE : NTS



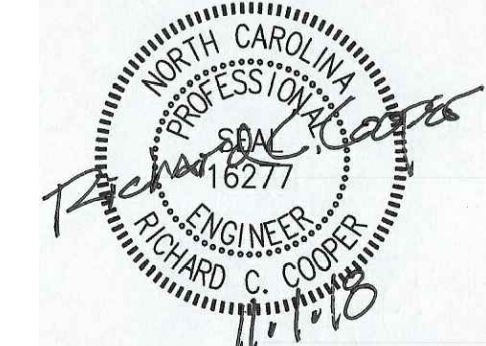
4 TYPICAL GAS TRAIN- FM APPROVED
M1.0 SCALE : NTS

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Checked: RCC Date: 11/01/18
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ELECTRICAL GENERAL NOTES AND SPECIFICATIONS

- A. ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, 2014 EDITION AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES. ELECTRICAL CONTRACTOR SHALL SECURE AND PAY FOR ALL LICENSES, FEES, PERMITS, AND UTILITY CHARGES. BOTH CONTRACTOR AND INSTALLING MECHANIC ARE REMINDED THAT SINCE THE NATIONAL ELECTRICAL CODE IS BY STATUTORY INCLUSION A PART OF THE LAWS OF THE STATE THEY BEAR A PRIME RESPONSIBILITY TO COMPLY WITH IT EVEN WHEN THE DRAWINGS OR SPECIFICATIONS DENOTE AN APPARENT VIOLATION. THIS SHOULD BE OBSERVED CAREFULLY AND CONTINUOUSLY, PARTICULARLY DURING ESTIMATING FOR PROPOSAL, AND ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
- B. ELECTRICAL CONTRACTOR SHALL MAINTAIN ON THE SITE AN ADEQUATE ADMINISTRATIVE SPACE WHERE ONE COMPLETE SET OF DRAWINGS AND SPECIFICATIONS SHALL BE KEPT FOR THE WORK OF ALL TRADES ON THE PROJECT. THESE SHALL BE IN ADDITION TO THE SETS USED BY THE MECHANICS IN CARRYING OUT THEIR WORK ON THE PROJECT. THE PROJECTED LOCATION OF EVERY OUTLET, RACEWAY, OR ITEM OF EQUIPMENT TO BE INSTALLED UNDER THIS CONTRACT SHALL BE CHECKED AGAINST THE DRAWINGS AND SPECIFICATIONS OF ALL THE OTHER TRADES AS WELL AS BY DAY-TO-DAY CONFERENCE WITH WORKMEN AND SUPERVISORS OF ALL OTHER TRADES TO THE END THAT ANY CONFLICTS OR UNCERTAINTIES ABOUT LOCATIONS ARE RESOLVED BEFORE WORK IS INSTALLED, PARTICULARLY WITH REGARD TO THE INTERACTION OF LIGHTING FIXTURES, AIR HANDLING OPENINGS, ACCESS DOORS, SPRINKLER HEADS, ETC. CEILING CONSTRUCTION INSTALLATION SHALL BE MADE IN ACCORD WITH REFLECTED CEILING PLANS AND/OR INSTRUCTIONS BY THE ARCHITECT'S REPRESENTATIVES ON THE SITE. MOVING OF ITEMS FROM LOCATIONS SHOWN, REROUTING, OR CHANGES TO ACCOMPLISH ANY WORK AS SHOWN ON PLANS OR SPECIFICATIONS IN ORDER TO ACCOMPLISH THIS COORDINATION SHALL NOT BE CAUSE FOR CLAIM FOR ADDITIONAL COMPENSATION FOR THE WORK. PARTICULAR CARE SHALL BE TAKEN TO LOCATE BOXES SO THEY ARE NOT BACK-TO-BACK IN WALLS AND TO LOCATE OUTLETS OFF COLUMNS (UNLESS VITAL THEY BE THERE) OR OTHER PLACES WHERE THEY CONFLICT WITH STRUCTURAL STEEL OR REINFORCING BARS.
- C. CONTRACTOR SHALL MAINTAIN AT THE SITE A COMPLETE SET OF ALL SHOP DRAWINGS, FIXTURE AND EQUIPMENT CUTS, MANUFACTURER'S WIRING DIAGRAMS AND INSTALLATION DATA. PERSONNEL SHALL STUDY THIS DATA BEFORE AND DURING INSTALLATION AND ROUGHING SO AS TO PREPARE FOR THE PROPER FIT AND FUNCTION UPON COMPLETION.
- D. IN GENERAL, MOUNTING HEIGHTS OF OUTLETS, SWITCHES, ETC. ARE NOTED ON THE SYMBOL SCHEDULE. SCHEDULES AND NOTES SPECIFY "STANDARD" MOUNTING HEIGHTS FOR THESE ITEMS. STUDY CAREFULLY ELEVATIONS OF ALL WALLS AND CABINET WORK AS SHOWN ON ARCHITECTURAL DRAWINGS AND FIT OUTLETS TO SPACE AND TO AVOID CONFLICTS. OUTLETS SHALL ALWAYS BE LOCATED ABOVE, AND NOT IN BACKSPASHES, WHEREVER POSSIBLE. COORDINATE OUTLET LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS. ANY CONFLICT THAT CANNOT BE RESOLVED ON THE JOB SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER PRIOR TO ROUGHING.

E. CIRCUIT WIRE SIZING FOR 20 AMP CIRCUITS SHALL BE IN ACCORD WITH THE FOLLOWING TABLE:

VOLTS	DISTANCE	HOME RUN	REMAINDER OF CIRCUIT	VOLTS	DISTANCE	HOME RUN	REMAINDER OF CIRCUIT
120	0' - 50'	#12	#12	277V	0' - 130'	#12	#12
	50' - 100'	#10	#12		130' - 220'	#10	#12
	100' - 150'	#8	#10		220' - 330'	#8	#10

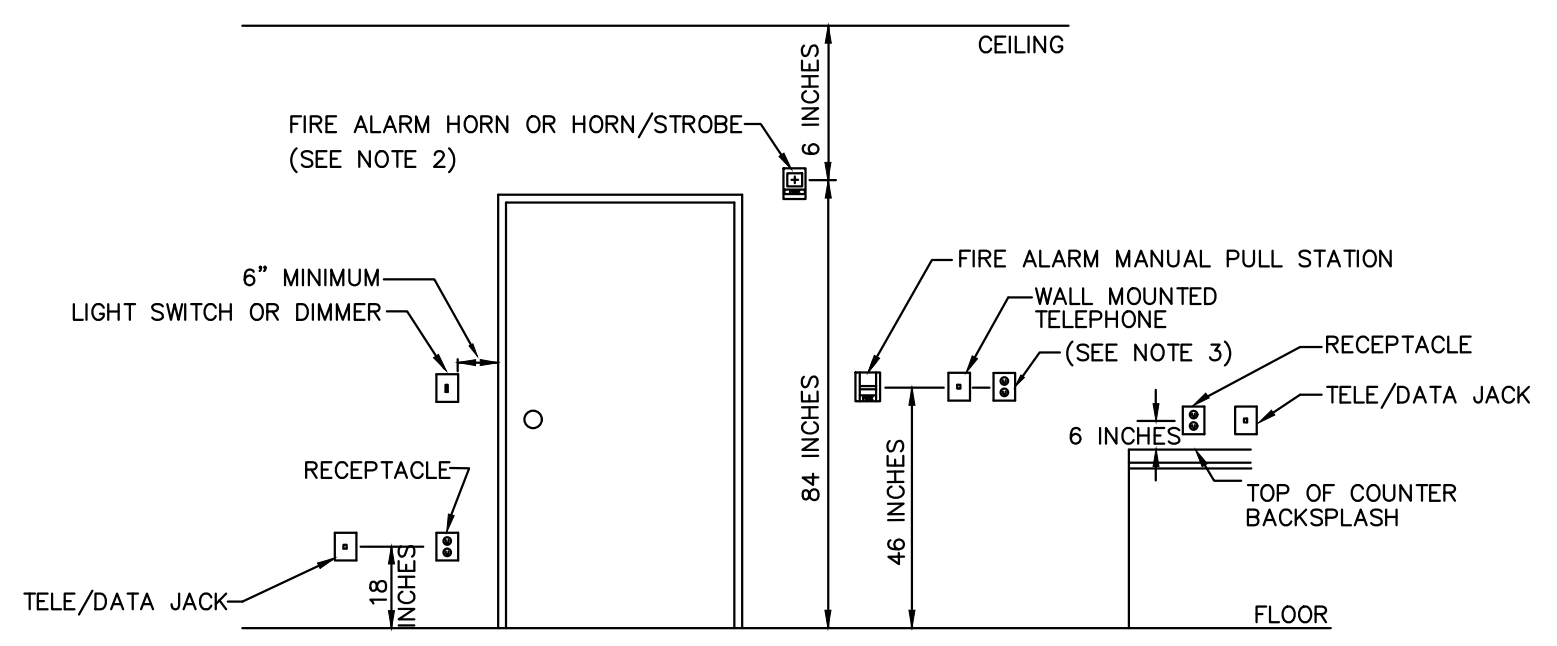
- F. ALL WIRING LUGS THROUGHOUT THE PROJECT, INCLUDING BUT NOT LIMITED TO BREAKERS, PANELBOARD/SWITCHBOARD LUGS, SAFETY SWITCH LUGS, AND TRANSFORMER LUGS, SHALL BE RATED FOR USE WITH 75°C CONDUCTORS SIZED IN ACCORDANCE WITH NEC TABLE 310.15(B)(16).
- G. ALL RACEWAYS SHALL BE EMT UNLESS SPECIFICALLY NOTED OR APPROVED OTHERWISE. ALL RACEWAYS MOUNTED ON THE ROOF OR EXTERIOR SHALL BE RIGID METALLIC WITH LIQUID-TIGHT METALLIC FLEX CONDUIT (3/4" MAX) WHIPS FOR MOTORIZED EQUIPMENT. ALL CIRCUITS SHALL BE IN RACEWAYS. CONCEAL ALL CABLE AND RACEWAYS IN FINISHED AREAS OF BUILDING. PROVIDE COMPRESSION GLAND TYPE FITTINGS MADE OF MALLEABLE, GALVANIZED OR SHERARDIZED STEEL. POT-METAL OR CAST-TYPE FITTINGS SHALL NOT BE PERMITTED ON THIS PROJECT. SET SCREW OR INDENTOR TYPE CONNECTOR OR COUPLING SHALL NOT BE PERMITTED. COLOR CODE CONDUIT.
- H. RACEWAYS FOR UNDERGROUND INSTALLATIONS SHALL BE SCH 40 PVC WITH GLUED COUPLINGS. USE WATER TIGHT COUPLINGS FOR CONNECTIONS TO INGROUND JUNCTION BOXES.
- I. PROVIDE EXPANSION COUPLINGS FOR ALL CONDUITS CROSSING BUILDING EXPANSION JOINTS. REFER TO ARCHITECTURAL PLANS FOR EXPANSION JOINT LOCATIONS.
- J. CONDUCTOR INSULATION SHALL BE THHN/THWN. MINIMUM SIZE OF CONDUCTORS SHALL BE #12 AWG.
- K. PROVIDE A SEPARATE, GREEN WIRE GROUNDING CONDUCTOR, SIZED PER N.E.C., IN ALL LIGHTING & POWER CIRCUITS. PROVIDE A SEPARATE WHITE NEUTRAL CONDUCTOR FOR ALL 120 VOLT BRANCH CIRCUITS (NO SHARED NEUTRALS).
- L. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT SHALL BE LABEL LISTED BY A NORTH CAROLINA APPROVED THIRD PARTY TESTING AGENCY.
- M. CONDUCTORS SHALL BE COPPER WITH 75°C (THHN/THWN) MINIMUM INSULATION RUN IN METALLIC CONDUIT.
- N. ALL CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS:

208V/120V, 1-PHASE, 3-WIRE	208V/120V, 3-PHASE, 4-WIRE	480V/277V, 3-PHASE, 4-WIRE
PHASE A BLACK	PHASE A BLACK	PHASE A BROWN
PHASE B RED	PHASE B RED	PHASE B ORANGE
PHASE C ORANGE (HIGH LEG)	PHASE C BLUE	PHASE C YELLOW
NEUTRAL WHITE	NEUTRAL WHITE	NEUTRAL LIGHT GRAY
GROUND GREEN	GROUND GREEN	GROUND GREEN

- O. DEVICE PLATES
 - COVER PLATES FOR FLUSH MOUNTED WIRING DEVICES AND FOR TELEPHONE OUTLETS SHALL BE TYPE "302" STAINLESS STEEL OR NYLON TYPE, STANDARD SIZE, SINGLE OR GANGED AS SHOWN ON THE DRAWINGS. COVER PLATE MOUNTING SCREWS SHALL BE SLOTTED HEAD OVAL SCREWS AND SHALL MATCH THE FINISH AND MATERIAL OF THE PLATE, AND SHALL BE FURNISHED WITH THE PLATE BY THE PLATE MANUFACTURER. QUANTITY OF 2% SPARE COVER PLATES OF EACH TYPE SHALL BE PROVIDED TO THE OWNER.
 - SWITCH AND RECEPTACLE COVER PLATES ON EXPOSED WORK SHALL BE GALVANIZED CAST FERROUS METAL, STANDARD SIZE, AND SHALL BE SINGLE OR GANGED AS INDICATED ON THE DRAWINGS.
 - EXTERIOR MOUNTED SWITCH AND RECEPTACLE PLATES, AND THOSE NOTED TO BE WEATHERPROOF, SHALL BE WEATHERPROOF PVC COVER PLATES, STANDARD SIZE, SINGLE OR GANGED AS INDICATED ON THE DRAWINGS, AND SHALL BE "APPROVED" THIRD PARTY LISTED AS "RAIN-TIGHT WHILE IN USE."

- P. ELECTRICAL IDENTIFICATION
 - FURNISH AND INSTALL ENGRAVED LAMINATED PHENOLIC NAMEPLATES FOR ALL SAFETY SWITCHES, PANELBOARDS, TRANSFORMERS, SWITCHBOARDS, MOTOR CONTROL CENTERS AND OTHER ELECTRICAL EQUIPMENT SUPPLIED FOR THE PROJECT FOR IDENTIFICATION. NAMEPLATES SHALL BE SECURELY ATTACHED TO EQUIPMENT WITH SELF-TAPPING STAINLESS STEEL SCREWS; IF THE SCREW SHARP END IS PROTECTED; OTHERWISE RIVETS SHALL BE USED. LETTERS SHALL BE APPROXIMATELY 1/2 INCH HIGH MINIMUM. EMBOSSED, SELF-ADHESIVE PLASTIC TAPE IS NOT ACCEPTABLE FOR MARKING EQUIPMENT. NAMEPLATE MATERIAL COLORS SHALL BE:
 - BLUE SURFACE WITH WHITE CORE FOR 120/208 VOLT EQUIPMENT
 - BLACK SURFACE WITH WHITE CORE FOR 277/480 VOLT EQUIPMENT
 - BRIGHT RED SURFACE WITH WHITE CORE FOR ALL EQUIPMENT RELATED TO FIRE ALARM SYSTEM
 - DARK RED (BURGUNDY) SURFACE WITH WHITE CORE FOR ALL EQUIPMENT RELATED TO SECURITY.
 - GREEN SURFACE WITH WHITE CORE FOR ALL EQUIPMENT RELATED TO "EMERGENCY" SYSTEMS.
 - ORANGE SURFACE WITH WHITE CORE FOR ALL EQUIPMENT RELATED TO TELEPHONE SYSTEM.
 - BROWN SURFACE WITH WHITE CORE FOR ALL EQUIPMENT RELATED TO DATA SYSTEMS.
 - WHITE SURFACE WITH BLACK CORE FOR ALL EQUIPMENT RELATED TO PAGING SYSTEMS.
 - PURPLE SURFACE WITH WHITE CORE FOR ALL EQUIPMENT RELATED TO TV SYSTEMS.

ELECTRICAL SYMBOL LEGEND	
	SOLID LINES INDICATE CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILINGS, EXPOSED IN UNFINISHED AREAS. DASHED LINES INDICATE CONDUIT RUN BELOW GRADE OR BELOW FINISHED FLOOR. RUN PARALLEL OR PERPENDICULAR TO STRUCTURE OR WALL.
	HOMERUN TO PANELBOARD. QUANTITY OF ARROWS INDICATES NUMBER OF CIRCUITS.
	SUSPENDED LIGHTING FIXTURE CONNECTED TO NORMAL BRANCH CIRCUIT. SEE LIGHTING FIXTURE SCHEDULE FOR EXACT REQUIREMENTS.
	SUSPENDED LIGHTING FIXTURE WITH EMERGENCY EGRESS BALLAST, DRIVER OR BATTERY BACKUP. LETTER INDICATES TYPE. SEE LIGHTING FIXTURE SCHEDULE FOR EXACT REQUIREMENTS.
	208Y/120 OR 120/240 VOLT PANELBOARD, FLUSH AND SURFACE MOUNTED RESPECTIVELY. SEE PANEL SCHEDULE FOR DESIGN INFORMATION. DESIGNATION AS INDICATED.
	EMERGENCY BATTERY PACK UNIT WITH NUMBER OF LAMPS AS INDICATED. LETTER (WHERE SHOWN) INDICATES TYPE. SEE LIGHTING FIXTURE SCHEDULE FOR EXACT REQUIREMENTS. CONNECT UNSWITCHED TO INDICATED BRANCH CIRCUIT.
S	SINGLE-POLE SWITCH IN FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX. MOUNT 46" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED OR REQUIRED BY SITE CONDITIONS. HUBBELL 1221 SERIES OR EQUIVALENT.
S3	THREE-WAY SWITCH IN FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX. MOUNT 46" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED OR REQUIRED BY SITE CONDITIONS. HUBBELL 1223 SERIES OR EQUIVALENT.
S4	FOUR-WAY SWITCH IN FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX. MOUNT 46" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED OR REQUIRED BY SITE CONDITIONS. HUBBELL 1221 SERIES OR EQUIVALENT.
SM	MOTOR RATED CONTACT SWITCH WITH POLES AS REQUIRED, IN FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX. MOUNT 46" ABOVE FINISHED FLOOR OR WITHIN SIGHT OF MOTOR BEING SERVED, UNLESS OTHERWISE INDICATED.
	CEILING MOUNTED JUNCTION BOX. SEE E1.1 SHEET FOR DETAILS.
	125 VOLT, 3 WIRE DUPLEX RECEPTACLES IN FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) 2-GANG OUTLET BOX W/PLASTER RING, MOUNT 18" OR 46" ABOVE FINISHED FLOOR, OR 6" ABOVE DESK, COUNTERTOP, OR BACKSPASH, UNLESS OTHERWISE INDICATED.
	125 VOLT, 3 WIRE GROUND FAULT CIRCUIT INTERRUPTER TYPE RECEPTACLE. MOUNTING AS INDICATED. HUBBELL OF SERIES OR EQUIVALENT.
	125 VOLT, 15 AMP, 3 WIRE TAMPER-RESISTANT, WEATHER-RESISTANT, GROUND FAULT CIRCUIT INTERRUPTER TYPE RECEPTACLE WITH STAINLESS STEEL WHILE-IN-USE WEATHERPROOF COVER. MOUNTING AS INDICATED.
	ELECTRIC PUSH BUTTON IN FLUSH OUTLET BOX WHEN SHOWN IN FINISHED WALLS. MOUNT 46-INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED OR REQUIRED BY SITE CONDITIONS. PROVIDED BY DOOR OPERATED VENDOR.
	OCCUPANCY MOTION SENSOR SWITCH TO CONTROL LIGHT FIXTURES. 120VAC CEILING MOUNTED. SEE SPECIFICATIONS.



1 E0.1 TYPICAL MOUNTING HEIGHTS OF DEVICES
SCALE : NOT TO SCALE

- NOTES:
- SEE ELECTRICAL FLOOR PLANS AND ARCHITECTURAL WALL ELEVATIONS FOR "NON-TYPICAL" DEVICE MOUNTING HEIGHTS.
 - MOUNT OUTLET BOX AT 84" A.F.F. OR 6" DOWN FROM CEILING, WHICHEVER IS LOWER.
 - TYPICAL RECEPTACLE NOT AT COUNTER LOCATION.

NORTH CAROLINA STATE BUILDING CODE 2012

ENERGY CODE
LIGHTING COMPLIANCE

METHOD OF COMPLIANCE: BUILDING AREA

STANDARD PANEL SCHEDULES: E0.3
STANDARD LOAD SUMMARIES: E0.3

LIGHTING SCHEDULE:
LAMP TYPE: SEE SHEET E0.2
NUMBER OF LAMPS: SEE SHEET E0.2
BALLAST TYPE USED: SEE SHEET E0.2
NUMBER OF BALLASTS: SEE SHEET E0.2
TOTAL WATTAGE: SEE SHEET E0.2
TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED: 1080 W vs. 2006 W
TOTAL EXTERIOR WATTAGE SPECIFIED VS. ALLOWED: 168 W vs. 750 W

ABBREVIATIONS

A	AMPERES	G	GROUNDING CONDUCTOR
AFF	ABOVE FINISHED FLOOR	GF	GROUND FAULT CIRCUIT INTERRUPTER
AFG	ABOVE FINISHED GRADE	HP	HORSE POWER
ATS	AUTOMATIC TRANSFER SWITCH	LC	LIGHTING CONTACTOR
BAS	BUILDING AUTOMATION SYSTEM PANEL	N	NEUTRAL CONDUCTOR
C	CONDUIT	NL	NIGHT LIGHT
CA TV	CABLE TELEVISION	P	POLE
Cd	CANDELA RATING	PIV	POST INDICATOR VALVE
CB	CIRCUIT BREAKER	REC	RECEPTACLE
CM	CEILING MOUNTED	SPD	SURGE PROTECTION DEVICE
EF	EXHAUST FAN	UC	UNDER COUNTER
ER	ELEVATOR RECALL	UNO	UNLESS NOTED OTHERWISE
EWC	ELECTRIC WATER COOLER	V	VOLTS
	CONNECTION WITH GROUND FAULT PROTECTION	VA	VOLT-AMPS
FACP	FIRE ALARM CONTROL PANEL	W	WATTS, WIRES
FPN	FUSED PER NAMEPLATE RATING	WP	WEATHERPROOF
		WG	WIRE GUARD



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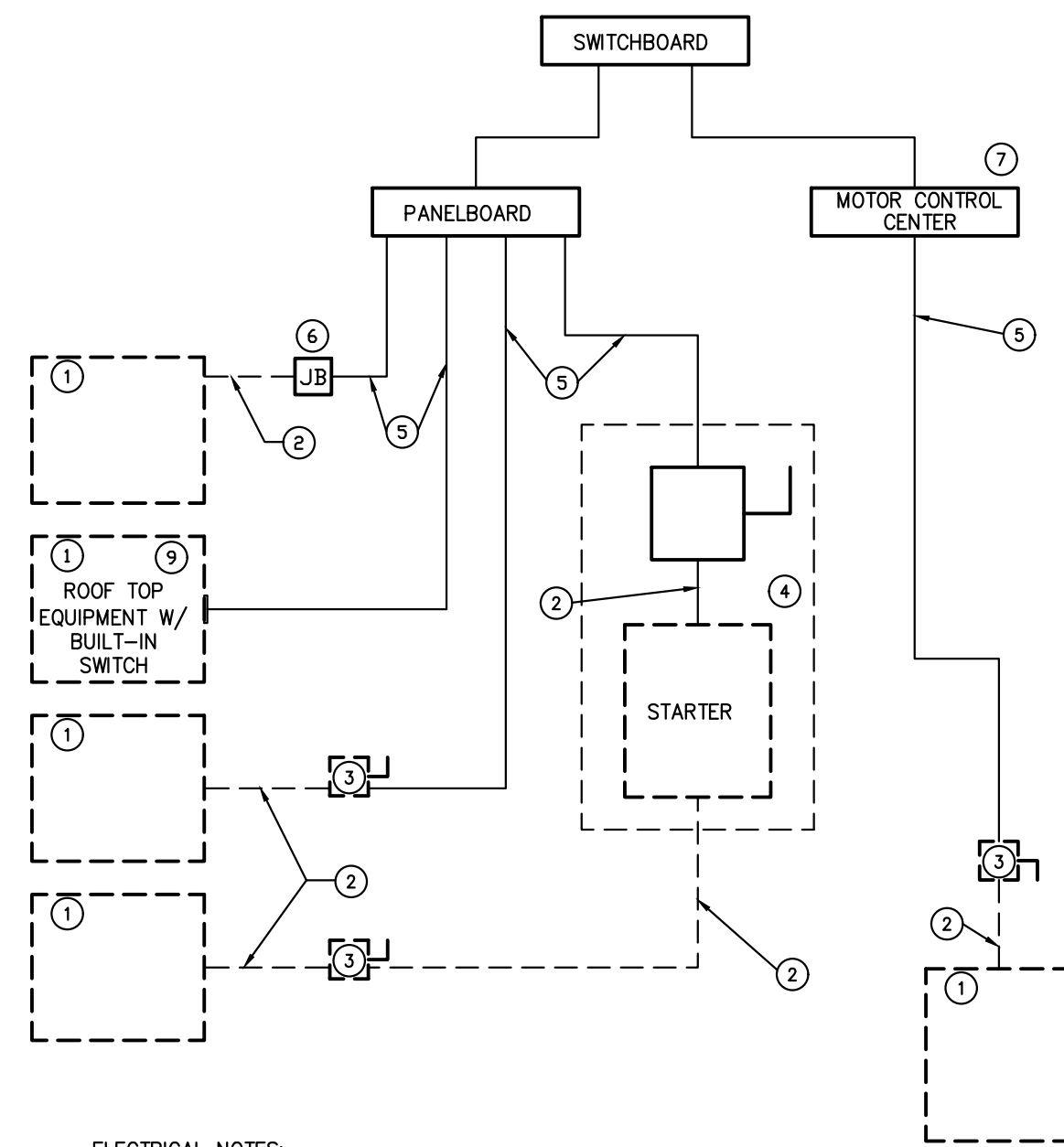
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ELECTRICAL NOTES.

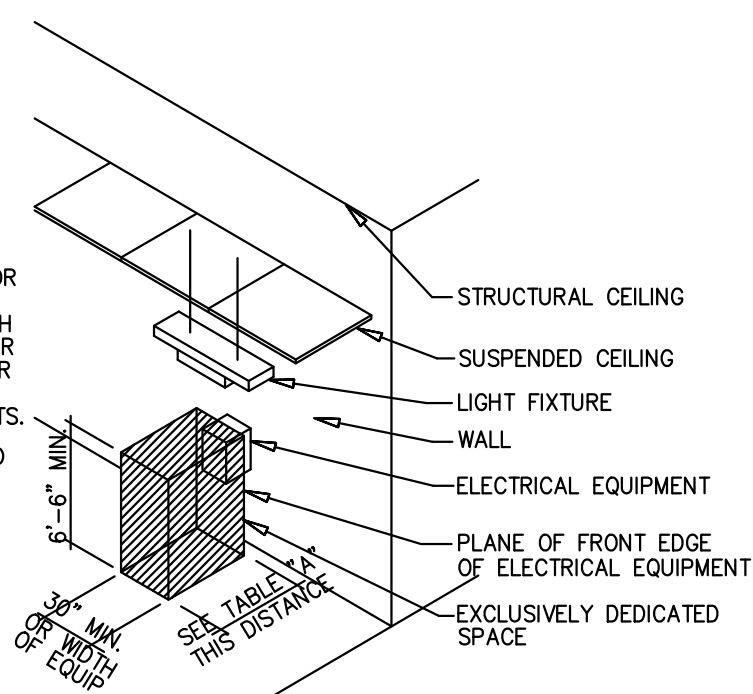
- 1 EQUIPMENT OF TRADES OTHER THAN ELECTRICAL.
- 2 CONDUIT & WIRING BY HVAC, PLUMBING CONTRACTOR OR OTHER TRADES.
- 3 IF AN ADDITIONAL DISCONNECT IS REQUIRED BY NEC, IT SHALL BE PROVIDED AND INSTALLED BY THE EQUIPMENT CONTRACTOR.
- 4 A COMBINATION STARTER OR VFD MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER LOCATE ADJACENT TO EQUIPMENT.
- 5 FEEDER CIRCUIT WIRING AND CONDUIT IN ELECTRICAL WORK. SEE PANELBOARD SCHEDULES FOR WIRE AND BREAKER SIZES.
- 6 JUNCTION BOX MAY BE SHOWN ON ELECTRICAL PLANS FOR SOME EQUIPMENT IF NO STARTER OR DISCONNECT IS SUPPLIED, A JUNCTION BOX SHALL BE INSTALLED ADJACENT TO EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LINE SIDE WIRING TO THE JUNCTION BOX, LOAD SIDE WIRING SHALL BE PROVIDED BY MECHANICAL CONTRACTOR OR OTHER TRADES.
- 7 PROJECTS UTILIZING AN MCC, THE STARTER, CB OR VFD IN THE MCC ARE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- 8 IN ALL CASES, THE EQUIPMENT CONTRACTOR SHALL MAKE FINAL CONNECTIONS, START UP AND TEST EQUIPMENT.
- 9 IF THE ROOF TOP EQUIPMENT IS NOT PROVIDED WITH BUILT IN SWITCH, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A DISCONNECT SWITCH.

1 E0.2 ELECTRICAL CONNECTION COORDINATION
DIAGRAMMATIC

VOLTAGE TO GROUND NOM. CONDITION:	1	2	3
0 - 150	3	3	3
151 - 600	3	3.5	4

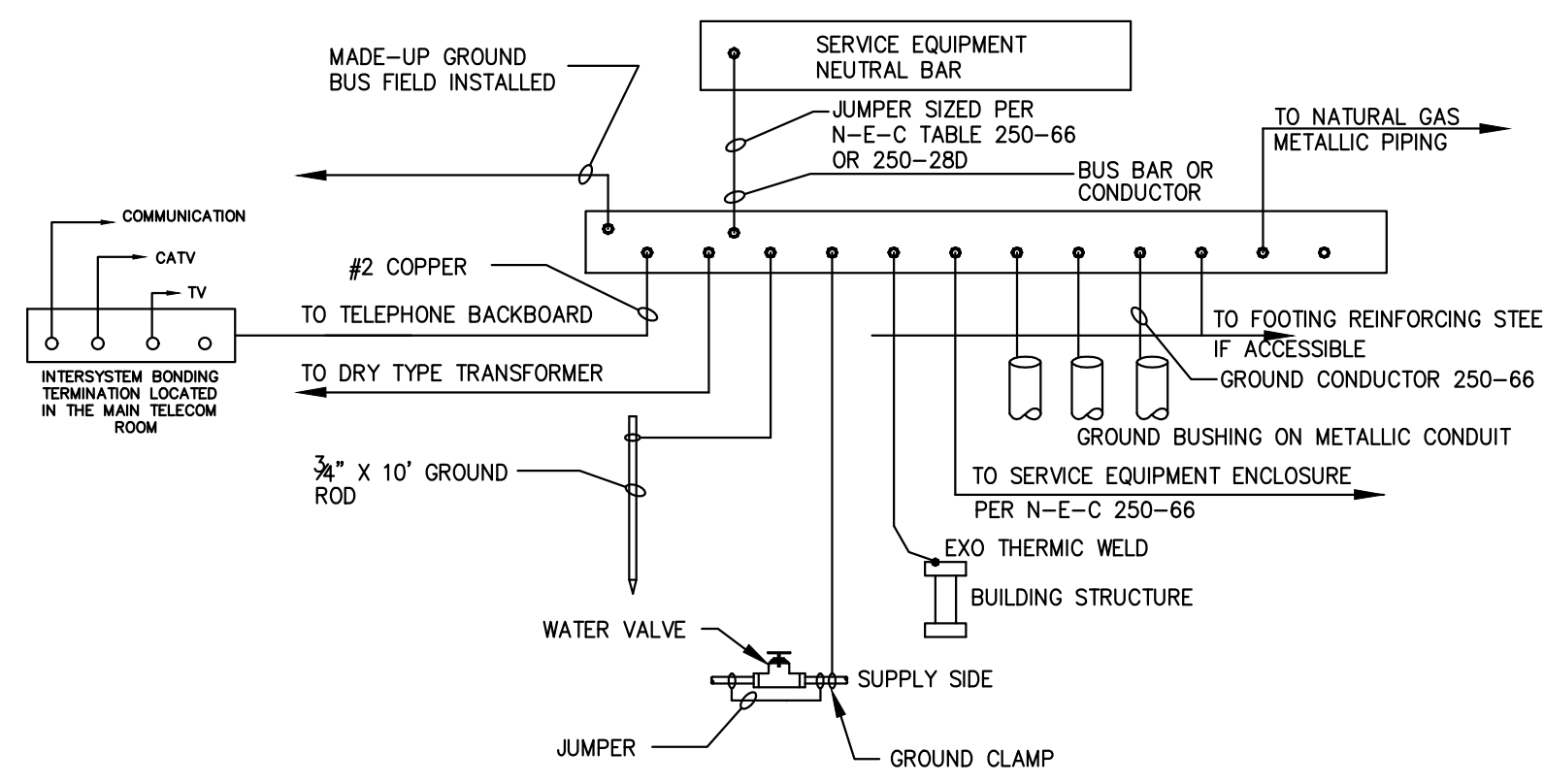
WHERE THE "CONDITIONS" ARE AS FOLLOWS:

1. EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE. OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR OTHER INSULATING MATERIALS. INSULATED WIRE OR INSULATED BUSBARS OPERATING AT NOT OVER 300V SHALL NOT BE CONSIDERED LIVE PARTS.
2. EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.
3. EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.



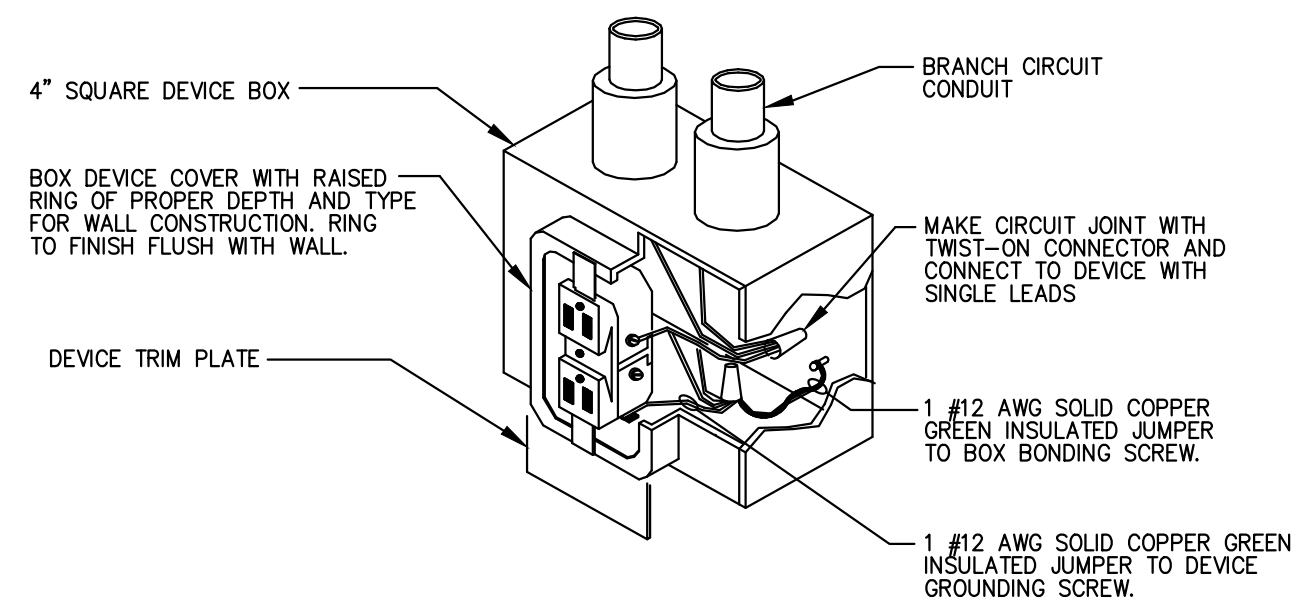
NOTE:
THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF THE ELECTRICAL EQUIPMENT REQUIRED BY SECTION 110-26 OF THE NATIONAL ELECTRICAL CODE.

3 E0.2 ELECTRICAL EQUIPMENT WORKING CLEARANCE
SCALE : NOT TO SCALE

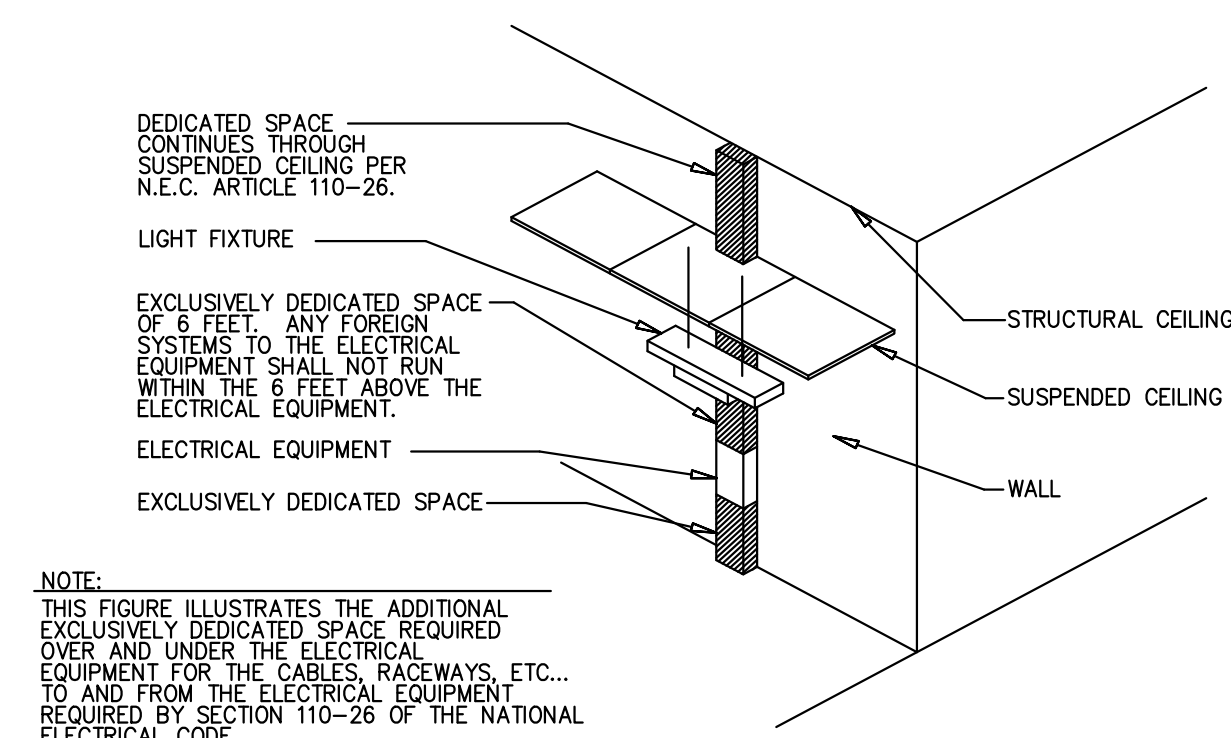


2 E0.2 SERVICE EQUIPMENT GROUNDING
SCALE : NOT TO SCALE

NOTE:
GROUND BUSBARS - 2"W X 12"L X 1/4"D (MIN.) CU. BUSBAR ON STANDOFF INSULATORS (TYP.)



4 E0.2 RECEPTACLE GROUNDING DETAIL
SCALE : NOT TO SCALE



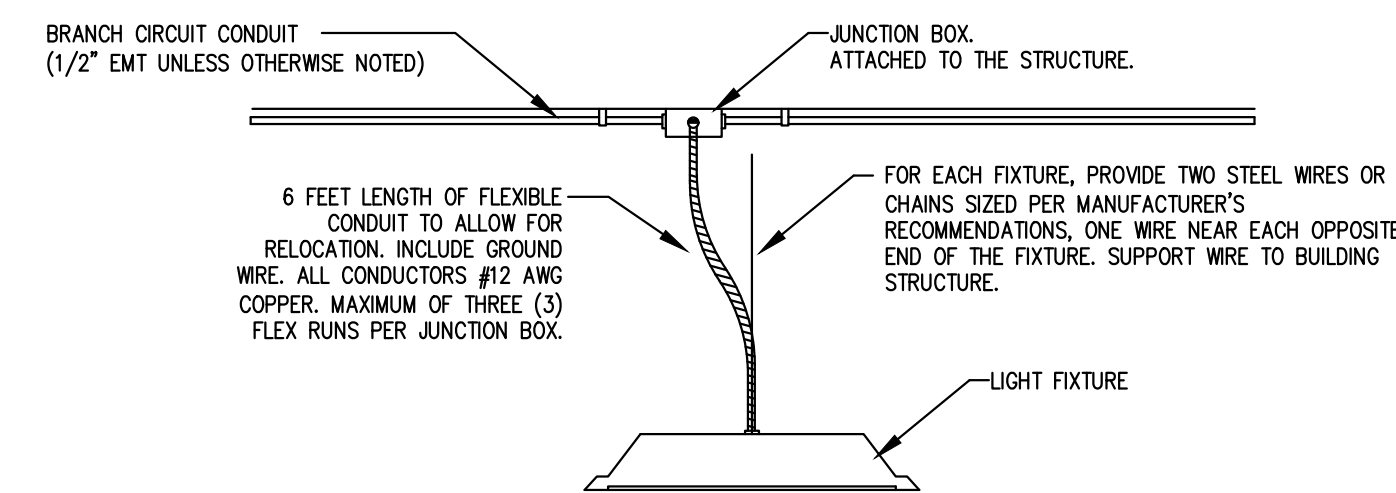
5 E0.2 ELECTRICAL EQUIPMENT DEDICATED SPACE
SCALE : NOT TO SCALE

TYPE	MANUFACTURERS	CATALOG INFORMATION	LAMP DATA NO.	LAMP TYPE	BALLAST DATA* NO.	BALLAST TYPE	INPUT WATTS	VOLTAGE	MOUNTING	FIXTURE DESCRIPTION	REMARKS
D6	SPI STYLE WILLIAMS XELEM OR APPROVED	LEGR-C SERIES 75 SERIES XASW02 SERIES EQUIVALENT	X	LED/4000K	-	-	45	120	SUSPENDED	4' LINEAR STRIP, 4" WIDE, DIFFUSING LENS, ±5,000 LUMENS, METAL HOUSING, UL DAMP LOCATION LABEL, PROVIDE WITH WIRE GUARD AND CHAIN HANGER SUPPORT HARDWARE.	SUSPENDED FROM METAL STRUCTURE IN CEILING, MOUNT HIGH ENOUGH AFF TO CLEAR GARAGE DOOR WHEN OPENED.
E6	SURE-LITES CHLORIDE DUAL LITE EMERG-LITE LUMARK	LEM4 SERIES EQUAL EQUAL EQUAL XTOR	2	LED	1	SEE REMARKS	3.4	120	WALL	4.8V EMERG. LIGHT, DUAL VOLTAGE, 4 REMOTE HEAD, HIGH IMPACT THERMOPLASTIC RESIN HOUSING, WHITE FINISH, SEALED NICKEL METAL HYDRIDE BATTERY, WITH SELF DIAGNOSTICS OPTION.	MEETS OR EXCEEDS REQUIREMENTS OF UL 924, NFPA 70, NFPA 101 FOR 90 MIN. OPERATION.
E6	HUBBELL PHILLIPS STONCO LITHONIA	LNC5L WTN OLVWT	2	LED (3500°K)	1	DRIVER	42	120	WALL	REFRACTIVE LENS LUMINAIRE, 2 LEDS, FULL-CUTOFF, DIE-CAST AL HOUSING, CARBON BRONZE FINISH, EMERG. COLD TEMP. POWER PACK., W/PE CELL.	MOUNT AT 9FT AFG MAX.

UNIV. - UNIVERSAL VOLTAGE 120/277V

LUMINAIRE NOTES (APPLY TO ALL LUMINAIRES)

1. ELECTRICAL CONTRACTOR TO VERIFY EXACT LOCATION AND PLACEMENT OF LUMINAIRES WITH ARCHITECTURAL REFLECTED CEILING PLANS PRIOR TO ROUGH-IN OR RELOCATE THEM AT NO CHARGE.
2. CONTRACTOR SHALL PROVIDE SUITABLE TRIM AND APPURTENANCES TO MOUNT LUMINAIRES IN TYPE OF CEILING OR WALL AS SPECIFIED IN ARCHITECTURAL FINISH SCHEDULES REGARDLESS OF CATALOG NUMBER GIVEN. CONTRACTOR SHALL VERIFY TYPE OF CEILING OR WALL BY REVIEWING ARCH. FINISH SCHEDULES PRIOR TO ORDERING LUMINAIRES.
3. LUMINAIRES SHALL BE SUPPORTED FROM THE STRUCTURE AS STATED IN THE PROJECT SPECIFICATIONS, AND/OR SHOWN ON DETAIL. LUMINAIRE SUPPORTS SHALL COMPLY WITH PROJECT SEISMIC REQUIREMENTS. REQUIRED SUPPORTS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
4. LUMINAIRES AS SPECIFIED HAVE BEEN SELECTED TO PROVIDE REQUIRED LEVELS OF ILLUMINATION, PERFORMANCE AND CONSTRUCTION FEATURES. ANY DEVIATIONS FROM SPECIFIED LUMINAIRES AND LIGHTING SPECIFICATIONS SHALL REQUIRE THE SUBMITTING AGENT AND CONTRACTOR RESPONSIBLE, FOR PROVING SUCH DEVIATION WILL PROVIDE EQUIVALENT PERFORMANCE AND CONSTRUCTION TO THE SPECIFIED LUMINAIRE AND SPECIFIED LIGHTING REQUIREMENTS.
5. MULTIPLE LUMINAIRES SWITCHED TOGETHER MAY BE FACTORY TANDEM WIRED WITH 2, 3, & 4 LAMP BALLAST. NO SINGLE LAMP BALLAST ALLOWED UNLESS SPECIFICALLY SCHEDULED. INDIVIDUAL FLUORESCENT LUMINAIRES SHALL BE EQUIPPED WITH ONE BALLAST WITH ABILITY TO SPLIT SWITCH LAMPING IN EACH LUMINAIRE. SWITCH ONE BALLAST IN LUMINAIRE TO PROVIDE HALF (ONE-THIRD, TWO-THIRD) OR FULL ILLUMINATION OF AREAS INDICATED. WIRE SUCH THAT ONE SWITCH CONTROLS INSIDE LAMPS OF LUMINAIRE AND OTHER SWITCH CONTROLS OUTSIDE LAMPS. TYPICAL AS NOTED OR AS REQUIRED BY NORTH CAROLINA STATE BUILDING ENERGY CODE, CHAPTER 8. CONTRACTOR SHALL BE RESPONSIBLE FOR LUMINAIRE COUNTS.
6. CONTRACTOR SHALL VERIFY VOLTAGE AVAILABLE IN EACH AREA, AND FURNISH LUMINAIRES AT VOLTAGE OF CIRCUIT PROVIDED.
7. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR EXIT AND EGRESS LUMINAIRES.
8. ALL RECESSED LUMINAIRES INSTALLED IN CEILINGS, INDICATED BY ARCH. AS HAVING INSULATION INSTALLED OVER CEILING AND FIXTURES, SHALL BE U.L. RATED FOR DIRECT CONTACT WITH INSULATION. VERIFY WITH ARCHITECTURAL PLANS.
9. ALL LUMINAIRES RECESSED IN FIRE RATED CEILINGS, SHALL BE INSTALLED WITH AN APPROVED TENT ENCLOSURE BY G/C, OR BE U.L. RATED FOR USE IN FIRE RATED CEILINGS. VERIFY WITH ARCHITECTURAL PLANS, AND COORDINATE WITH G/C BEFORE INSTALLATION OF LUMINAIRES.
10. LUMINAIRES SHALL BE EQUIPPED WITH PROGRAMMED START BALLASTS, WHERE LUMINAIRES ARE CONTROLLED BY OCCUPANCY SENSORS AS INDICATED ON PLANS.
11. LUMINAIRES WITH FLUORESCENT BALLASTS OR LED DRIVERS WHERE SHOWN MUST BE COMPATIBLE WITH DIMMING CONTROLS PROVIDED.
12. AREAS PROVIDED WITH FLUORESCENT LUMINAIRES AND DUAL LEVEL SWITCH CONTROLS WILL REQUIRE A COMBINATION OF TWO LAMP BALLAST AND ONE BALLAST. SAME AREAS PROVIDED WITH LED LUMINAIRES WILL REQUIRE 50% STEP DIMMING DRIVERS.



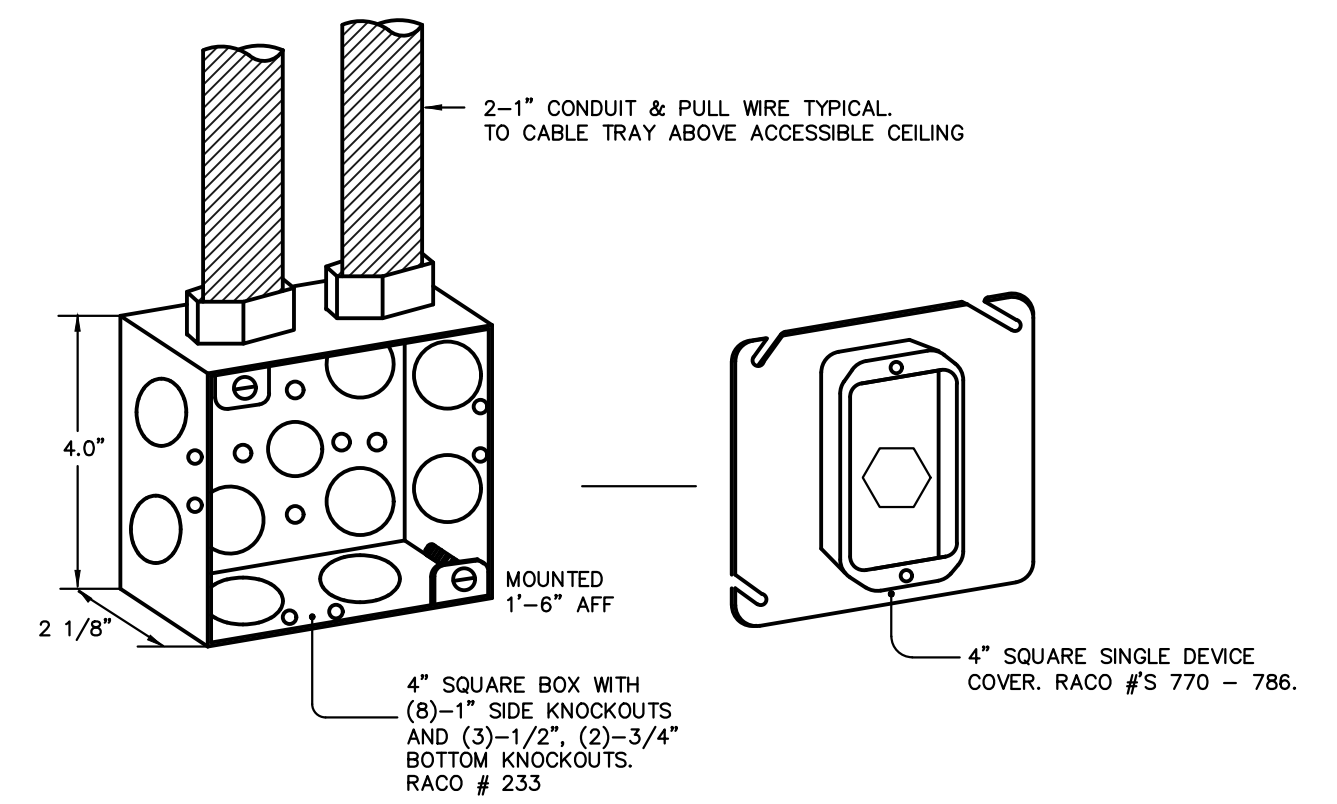
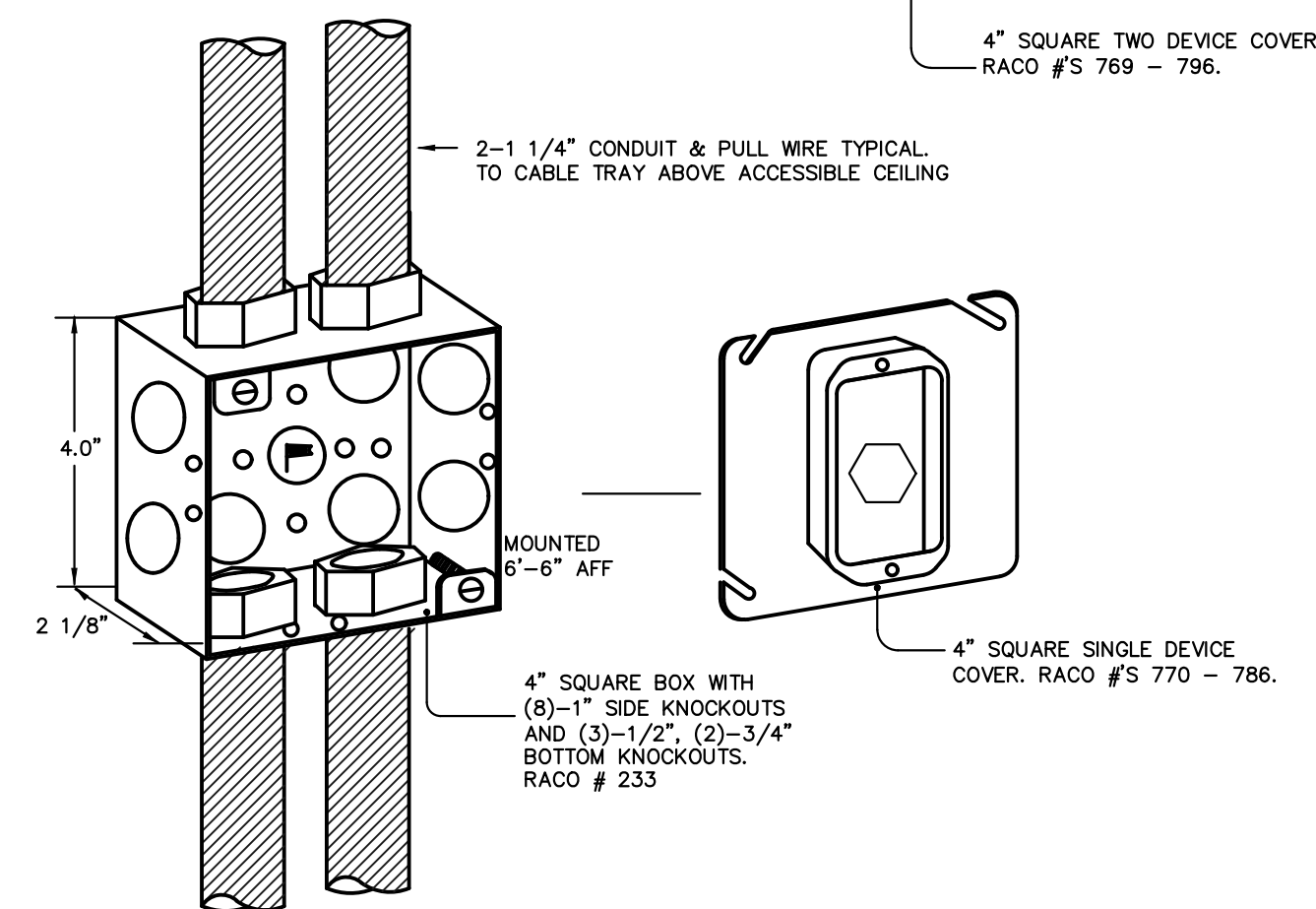
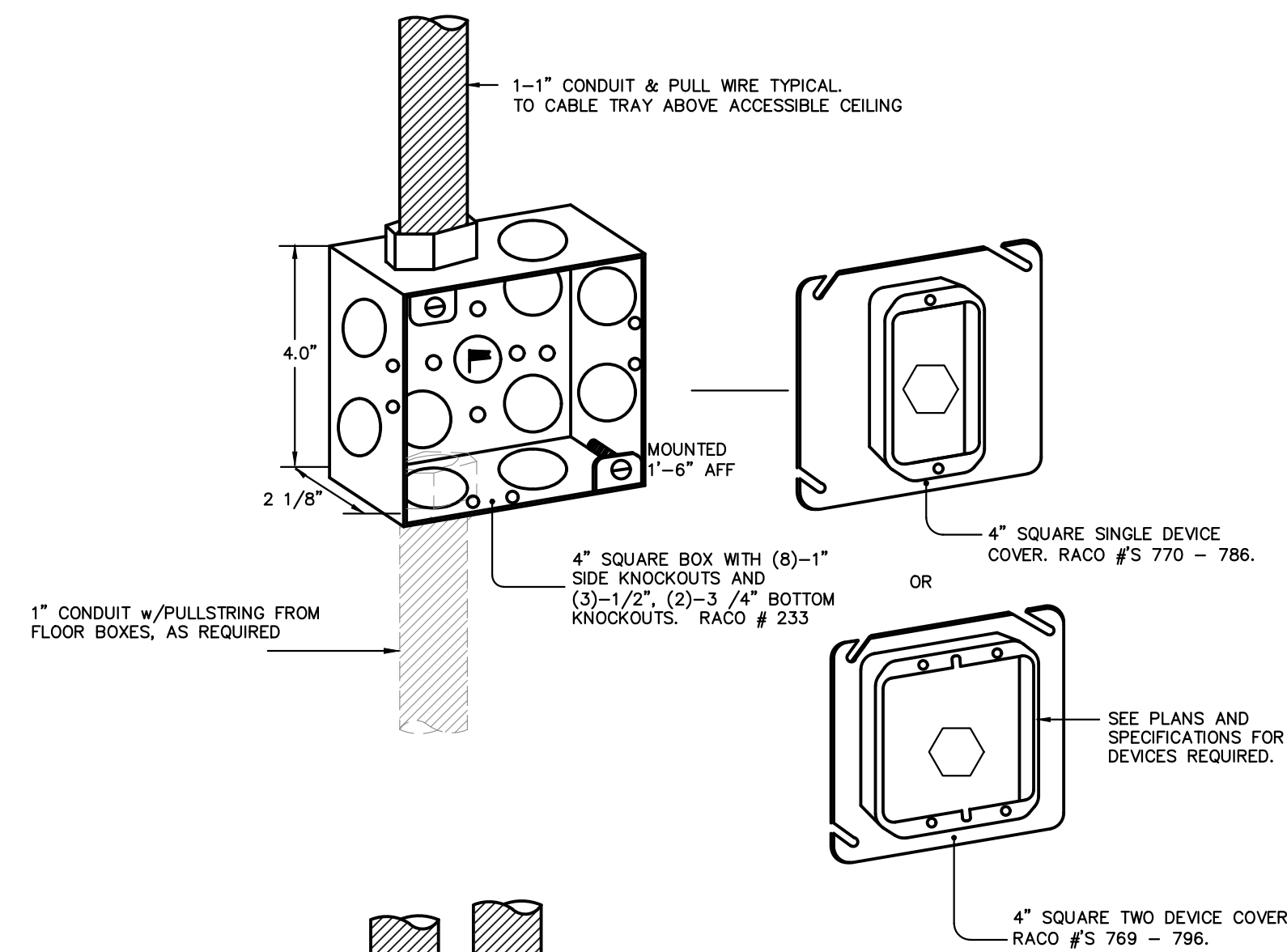
6 E0.2 TYPICAL LIGHTING FIXTURE MOUNTING DETAIL
SCALE : NOT TO SCALE



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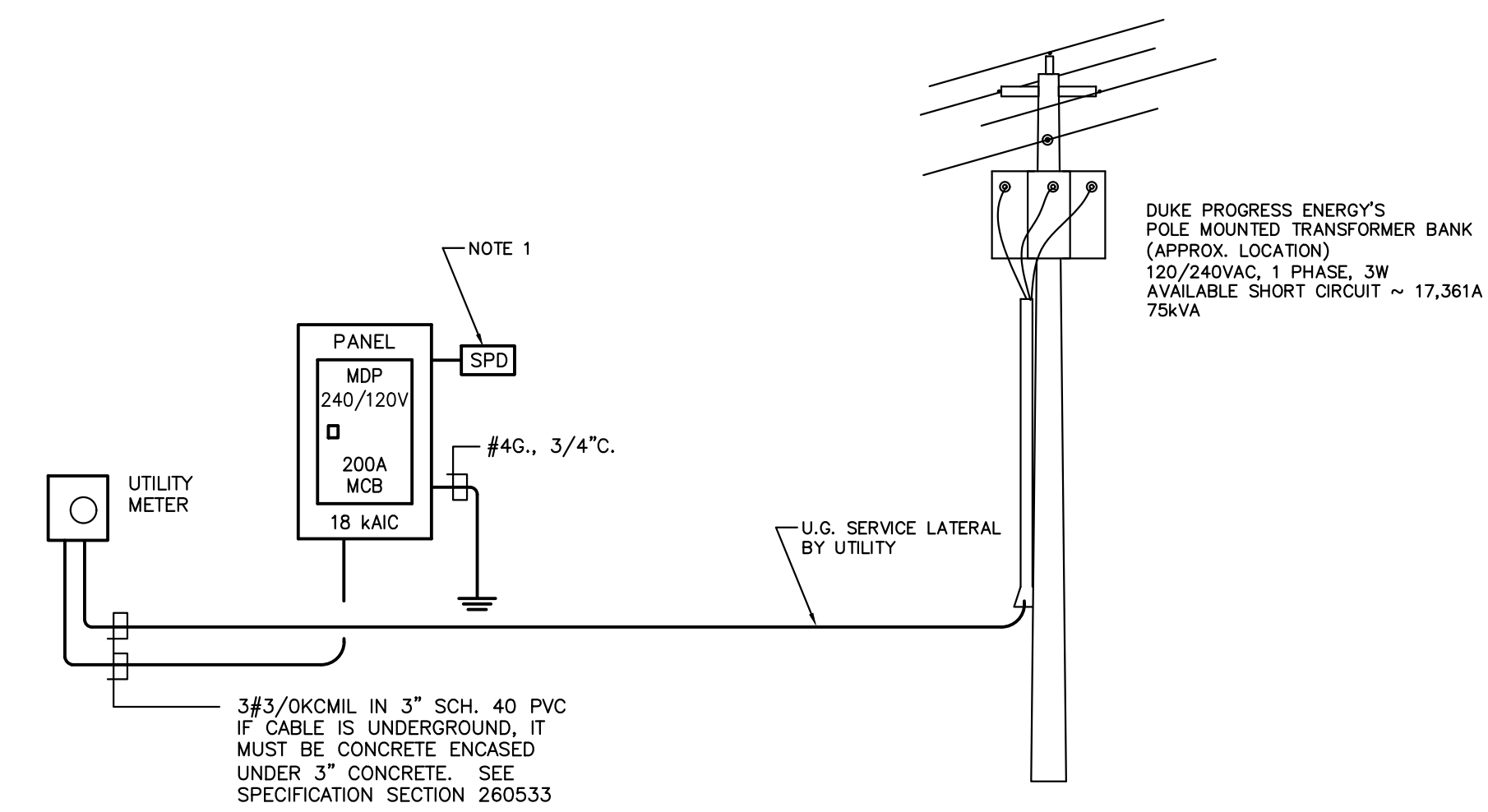
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OTHER ACCEPTABLE MANUFACTURERS ARE APPLETON, T&B, AND MIDLAND ROSS/STEEL CITY

1
E0.3 TELE/DATA OUTLET BOX DETAIL
SCALE: NONE

- NOTES:
- CONTRACTOR PROVIDE WALL BOXES AND CONDUIT ONLY. CONDUIT TO EXTEND AND TURN OUT ABOVE CEILING OR AN ACCESSIBLE SPACE ABOVE ADJACENT CEILING. 3/4" C. MIN. PHONE/DATA CABLING BY OWNER.
 - BOX AND RING NUMBERS SHOWN FOR STUD WALL CONSTRUCTION.
 - SUBSTITUTE MASONRY BOX EQUIVALENT WHERE LOCATED IN CMU OR CONCRETE WALLS.



2
E0.3 ELECTRICAL RISER DIAGRAM
SCALE: NONE

- NOTES:
- SURGE SUPPRESSOR, 100KA PER MODE/200KA PER PHASE, 10 YEAR WARRANTY, #8 WIRE AS SHORT AS POSSIBLE VIA 50A/3P CIRCUIT BREAKER

PANELBOARD MDP																							
SERVED FROM: UTILITY				AMPERE RATING: 225 A				VOLTAGE (L-L): 240				PHASE: 1				18,000 MINIMUM RMS							
ENCLOSURE RATING: NEMA 1				MAIN BREAKER: 200 A				VOLTAGE (L-N): 120				WIRE: 3				SYMMETRICAL AIC RATING							
MOUNTING: SURFACE				LUG OPTIONS: M.C.B.				LOCATION: MAINTENANCE STORAGE ROOM 102															
CIR. NO.	LOAD DESCRIPTION	LOAD (KVA)					WIRE SIZE	G IN.	CND IN.	BRKR RTG	BRKR WIRE SIZE	G IN.	CND IN.	LOAD (KVA)					LOAD DESCRIPTION	CIR. NO.			
		LTG	H/C	MOT	KIT	REC								LTG	H/C	MOT	KIT	REC			MISC		
1	LTG STORAGE RM 102	0.32					12	12	1/2	20	A	20	12	12	1/2					0.36	RECEPTACLES RM 102	2	
3	EF-2			0.10			12	12	1/2	20	B	20	12	12	1/2				1.18		0.36	GARAGE DOOR	4
5	LTG STORAGE RM 101	0.36					12	12	1/2	20	A	20	12	12	1/2					0.72	RECEPTACLES RM 102	6	
7	LTG STORAGE RM 101	0.31					12	12	1/2	20	B	20	12	12	1/2					0.72	RECEPTACLES RM 102	8	
9	EF-1			0.07			12	12	1/2	20	A	20	12	12	1/2			0.70				UHI-1	10
11	EXTERIOR LTG	0.30					12	12	1/2	20	B	20	12	12	1/2					0.54	RECEPTACLES RM 101	12	
13	RECEPTACLES RM 101				0.72		12	12	1/2	20	A	20	12	12	1/2					0.72	RECEPTACLES RM 101	14	
15	WH-1 CONTROLS				0.25		12	12	1/2	20	B	20	12	12	1/2				1.18			GARAGE DOOR	16
17	RECEPTACLES RM 101				0.54		12	12	1/2	20	A	20	12	12	1/2				1.18			GARAGE DOOR	18
19	CEILING CORD REEL				0.18		12	12	1/2	20	B	20	12	12	1/2				1.18			GARAGE DOOR	20
21	CEILING CORD REEL				0.18		12	12	1/2	20	A	20										SPARE	22
23	CEILING CORD REEL				0.18		12	12	1/2	20	B	20										SPARE	24
25											A	20										SPARE	26
27											B											SPARE	28
29											A											SPARE	30
31											B											SPARE	32
33											A											SPARE	34
35											B											SPARE	36
37											A											SPARE	38
39											B											SPARE	40
41	SPD				0.10		8	10	3/4	50/2	A											SPARE	42

PANELBOARD NOTES:		LOAD TOTALS (KVA):		CONNECTED		DEMAND		LOAD BALANCE	
1. PROVIDE WITH COPPER BUSES.		LIGHTING/CONTINUOUS		1.29		1.61		PHASE A 98.01%	
		HEATING/COOLING		0.70		0.70		PHASE B 101.99%	
		MOTORS		4.89		5.18			
		KITCHEN		0.00		0.00			
		RECEPTACLES		5.06		5.06		TOTAL DEMAND AMPS x 53	
		MISCELLANEOUS		0.25		0.25		LARGEST UNBALANCE PHASE %: 1.0199	
LARGEST MOTOR (KVA): 1.18		TOTAL		12.19		12.80		LARGEST UNBALANCE PHASE AMPS: 54.42	



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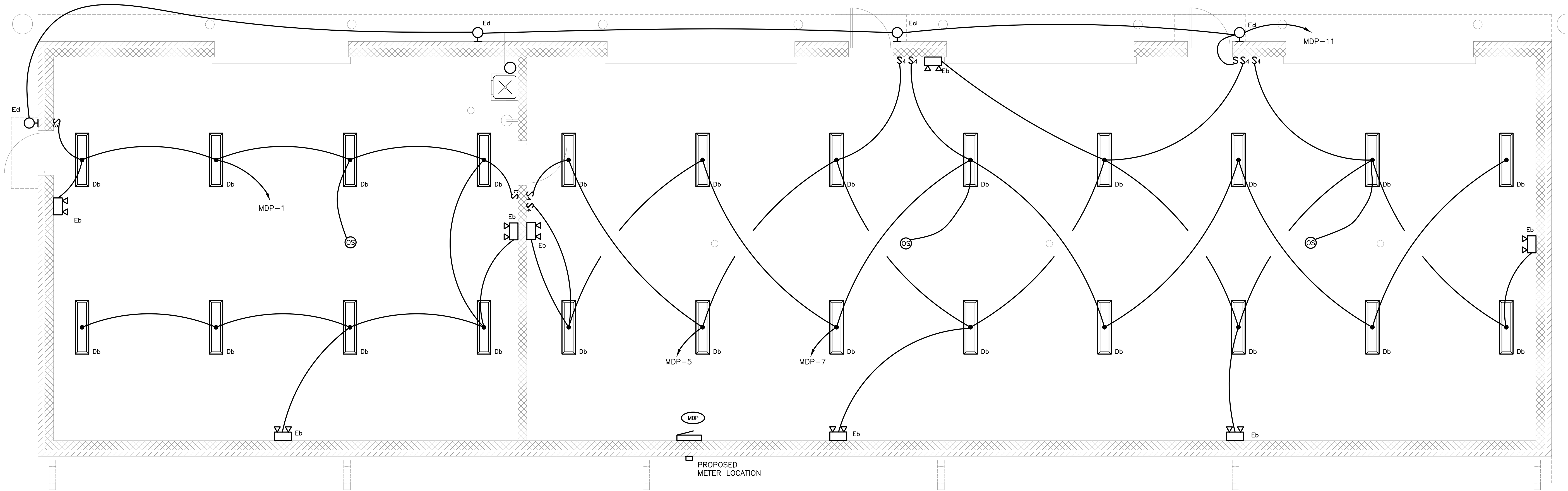
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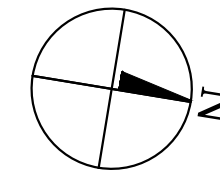
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1 STORAGE SHED PLAN ELECTRICAL- LIGHTING
 E1.0 SCALE : 1/4" = 1'-0"



NOTES:
 1. COORDINATE HEIGHT OF LIGHT FIXTURES WITH OVERHEAD DOOR PATH.



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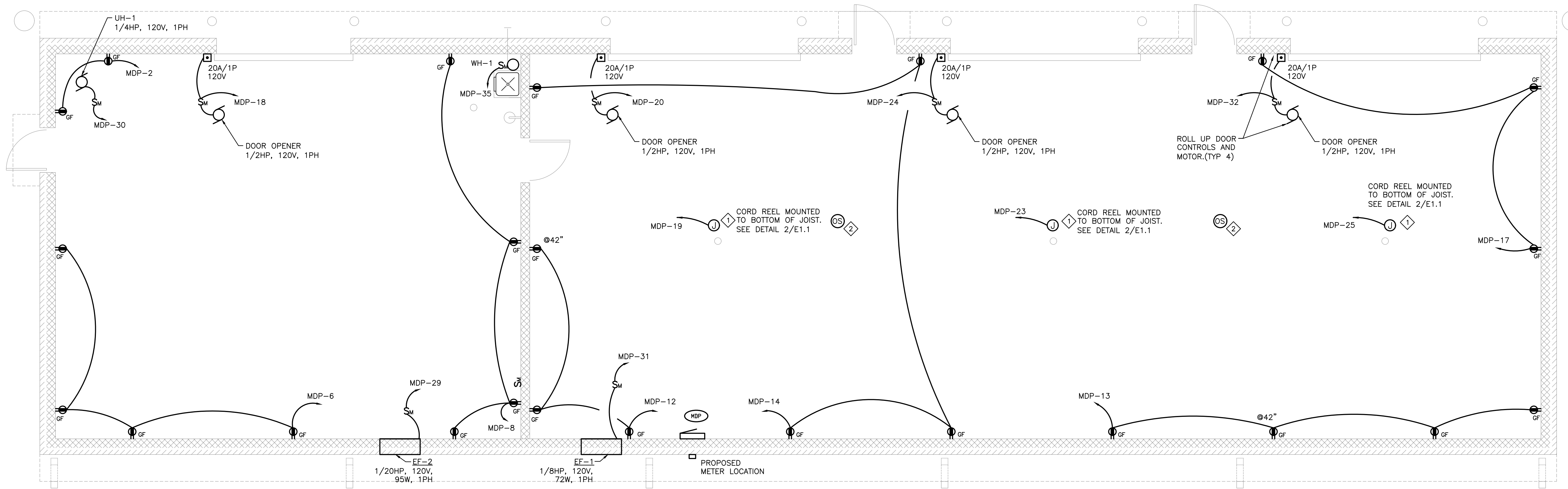
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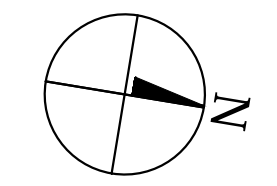
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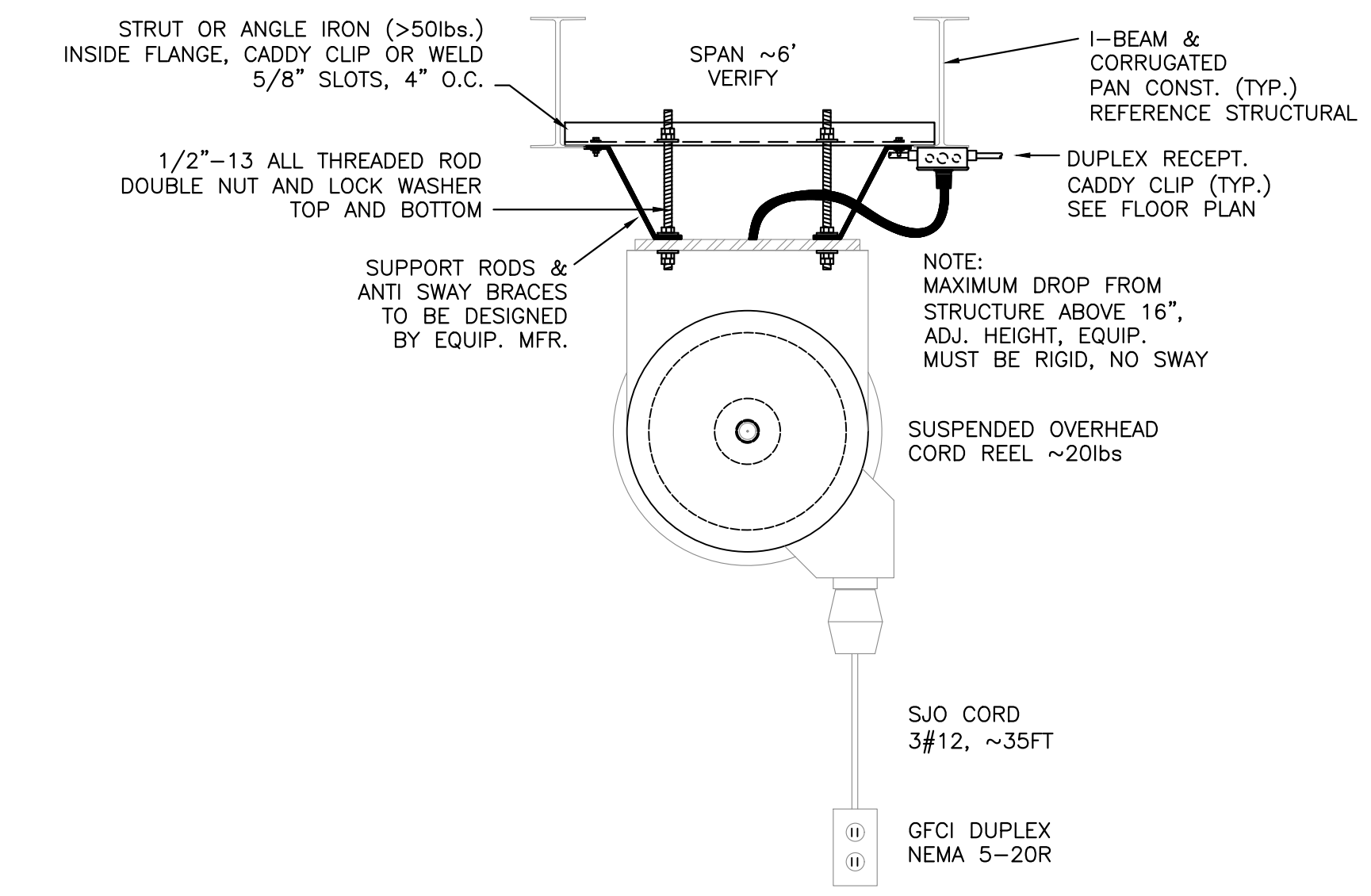
Division 14 Swain County Storage Shed
 Department of Transportation, Raleigh, NC SCO # 141126401A



1 STORAGE SHED PLAN ELECTRICAL- POWER
 E1.1 SCALE : 1/4" = 1'-0"



- NEW WORK NOTES:
- 1 E.C. TO PROVIDE A INDUSTRIAL GRADE RETRACTABLE YELLOW CORD REEL, HEAVY DUTY STEEL, NEMA 4, 120V/20A, 50FT 12/3 TYPE SJ CORD, YELLOW OUTLET BOX W/5-20R GFCI DUPLEX/BLANK, 6FT FEEDER CORD W/PLUG 5-20P, 3/4" PIVOT BASE, KH INDUSTRIES RTB SERIES CAT. NO. RTBB3L-WCB520-J12K W/RTBF-PVB PIVOT BASE. EQUIVALENT RETRACTABLE REELS BY REELCRAFT AND ERICSON MAY BE CONSIDERED. SEE DETAIL 2/E1.1.
 - 2 PROVIDE OCCUPANCY SENSOR AND CONNECT TO EF-1 FOR FAN OPERATION.



2 POWER REEL MOUNTING DETAIL
 E1.1 SCALE : NOT TO SCALE



MCKIM & CREED

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Designed TPB Drawn DAC
 Checked TPB Date 11/01/18
 Project No. 07002-0001

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