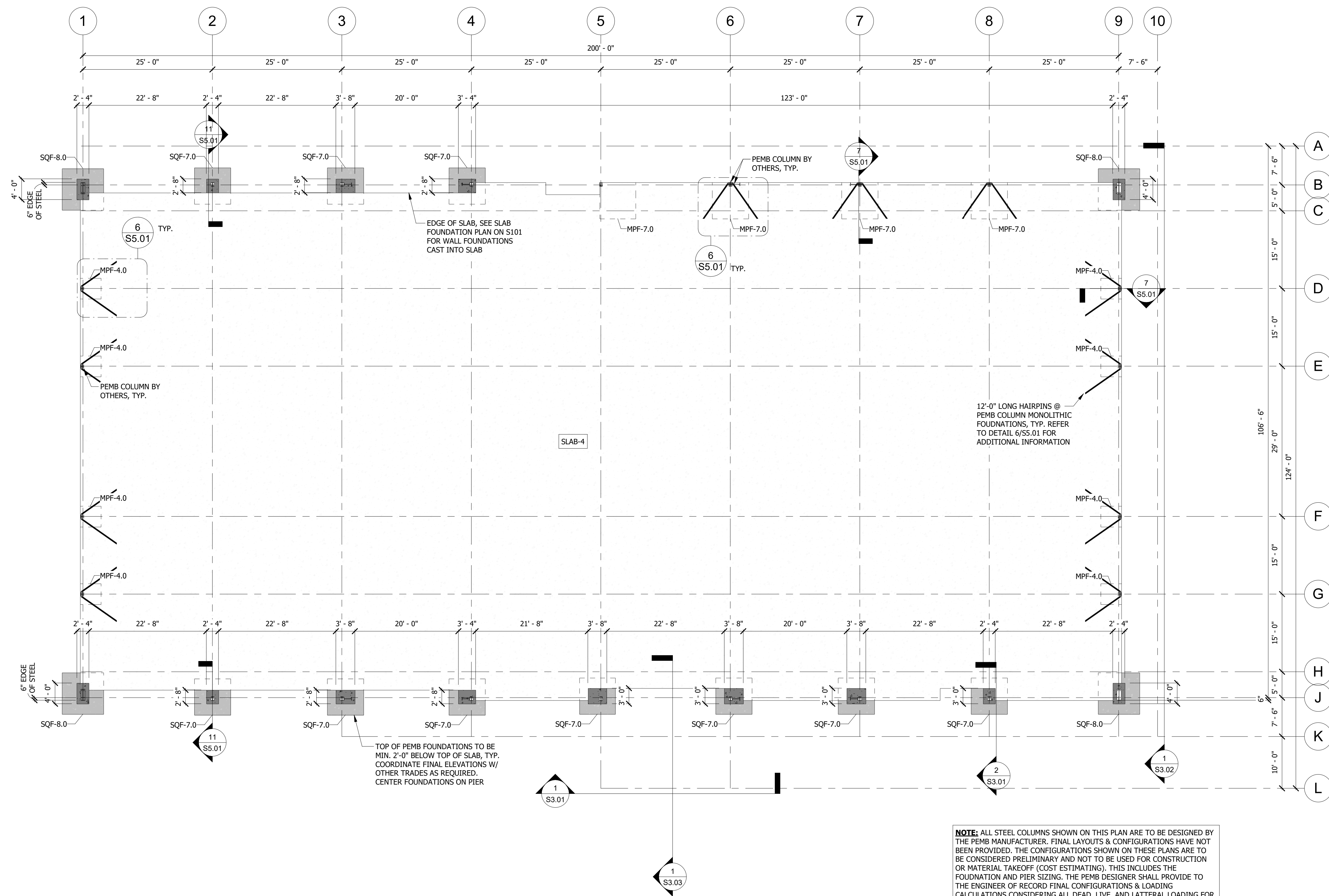


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**METAL BUILDING FOUNDATION PLAN NOTES:**

- FOUNDATION DESIGN IS BASED ON REACTIONS PROVIDED BY MANUFACTURER IN THE ABOVE MENTIONED DRAWINGS. GENERAL CONTRACTOR: DO NOT SCALE DRAWINGS. COORDINATE DIMENSIONS BETWEEN STRUCTURAL, ARCHITECTURAL, AND METAL BUILDING DRAWINGS. NOTIFY STRUCTURAL ENGINEER AND ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.
- VERIFY ELEVATIONS OF ALL STRUCTURAL FOUNDATIONS, AND SLABS INDICATED ON THESE PLANS W/ DRAWINGS FROM OTHER DISCIPLINES BEFORE COMMENCING CONSTRUCTION.
- "XFX-X" INDICATES CONCRETE FOUNDATION. SEE SCHEDULE THIS SHEET FOR SIZE, TYPE, & REINFORCING REQUIREMENTS.
- STRUCTURAL CONCRETE PIERS WHERE INDICATED BELOW PEMB FRAMES. SEE CROSS-SECTION DETAIL THIS SHEET FOR PIER REINFORCING. SEE DETAILS ON S501 FOR PIER TO FOUNDATION CONNECTION AND ANCHOR BOLT ATTACHMENT & EMBEDMENT LENGTHS AT METAL BUILDING LOCATIONS.

METAL BUILDING FOUNDATION PLAN

3/32" = 1'-0"

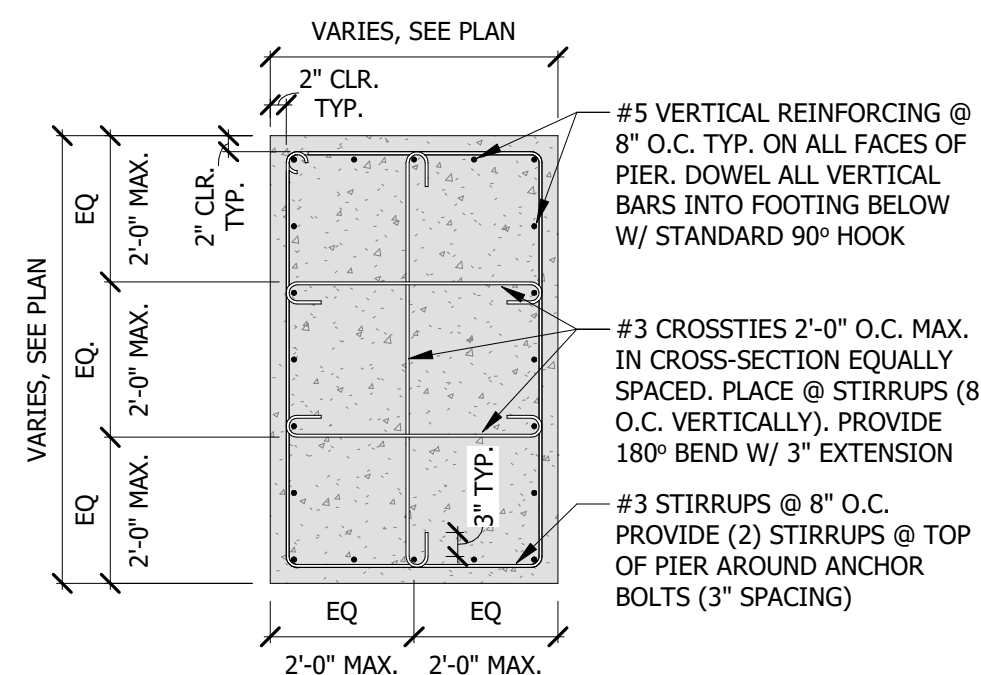
NOTE: ALL STEEL COLUMNS SHOWN ON THIS PLAN ARE TO BE DESIGNED BY THE PEMB MANUFACTURER. FINAL LAYOUTS & CONFIGURATIONS HAVE NOT BEEN PROVIDED. THE CONFIGURATIONS SHOWN ON THESE PLANS ARE TO BE CONSIDERED PRELIMINARY AND NOT TO BE USED FOR CONSTRUCTION OR MATERIAL TAKEOFF (COST ESTIMATING). THIS INCLUDES THE FOUNDATION AND PIER SIZING. THE PEMB DESIGNER SHALL PROVIDE TO THE ENGINEER OF RECORD FINAL CONFIGURATIONS & LOADING CALCULATIONS CONSIDERING ALL DEAD, LIVE, AND LATERAL LOADING FOR EACH COLUMN TO BE TRANSFERRED INTO THE STRUCTURAL FOUNDATIONS BASED ON THESE & THE ARCHITECTURAL PLANS. COORDINATE THE DESIGN WITH THE LATEST ARCHITECTURAL & STRUCTURAL DRAWINGS

DRAWING LEGEND

MARK	DESCRIPTION
	6" METAL STUD WALL. SEE METAL STUD WALL SCHEDULE
	FLOOR/ROOF JOIST. SEE PLAN FOR TYPE & SIZE
	STRUCTURAL BEAM/HEADERS
	SPAN DIRECTION OF FLOOR/ROOF SHEATHING.
	STEP IN WALL OR FOUNDATION HEIGHT
	1/2" Ø THREADED ROD
C.J.	CONTROL JOINT
	STEP IN SLAB ELEVATION
	CONCRETE PIER

NOTES:

- HEADERS SHOWN ON PLANS ARE BELOW FLOOR OR ROOF FRAMING FOR THAT LEVEL. POSTS SHOULD BE INSTALLED BELOW ALL MULTI-PLY BEAMS OR GIRDERS DIRECTLY BELOW THE POINT OF BEARING (POST WIDTH TO MATCH BEAM/GIRDER WIDTH). POSTS SHALL PROVIDE CONTINUOUS LOAD PATH TO FOUNDATION WHERE POSSIBLE.

**1 CONCRETE PIER SECTION**

1/2" = 1'-0"

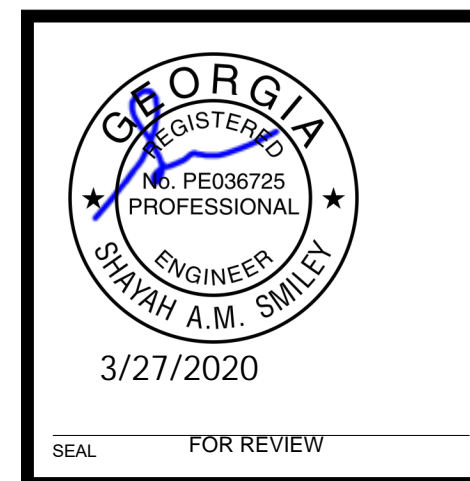
FOUNDATION SCHEDULE

MARK	DESCRIPTION
IMF-2.0	2' - 0" WIDE x 1' - 0" DEEP CONTINUOUS INTERIOR MONOLITHIC WALL FOUNDATION. PROVIDE (3) #5 BARS BOTTOM CONTINUOUS & #3 TRANSVERSE BARS @ 24" O.C.
MPF-4.0	4' - 0" WIDE SQUARE x 1' - 6" DEEP MONOLITHIC PAD FOUNDATION @ PEMB COLUMNS W/ (6) #5 BARS EACH WAY BOTTOM
MPF-7.0	7' - 0" WIDE SQUARE x 1' - 6" DEEP MONOLITHIC PAD FOUNDATION @ PEMB COLUMNS W/ (8) #5 BARS EACH WAY BOTTOM
SLAB-4	4" THICK CONCRETE SLAB ON GRADE W/ 6x6 W1.4x1.4 W.W.F OVER 6 MIL. VAPOR BARRIER ON CLEAN COMPACTED FILL
SQF-4.0	4' - 0" SQUARE x 1' - 0" DEEP CONCRETE PAD FOUNDATION W/ (5) #5 BOTTOM BARS EACH WAY
SQF-7.0	7' - 0" SQUARE x 1' - 0" DEEP CONCRETE PAD FOUNDATION W/ (8) #5 BOTTOM BARS EACH WAY
SQF-8.0	8' - 0" SQUARE x 1' - 0" DEEP CONCRETE PAD FOUNDATION W/ (10) #5 BOTTOM BARS EACH WAY
TDF-2.0	2' - 0" WIDE x 1' - 6" DEEP TURN DOWN SLAB FOUNDATION. PROVIDE (3) #5 CONTINUOUS BOTTOM BARS & #3 TRANSVERSE BARS @ 24" O.C.

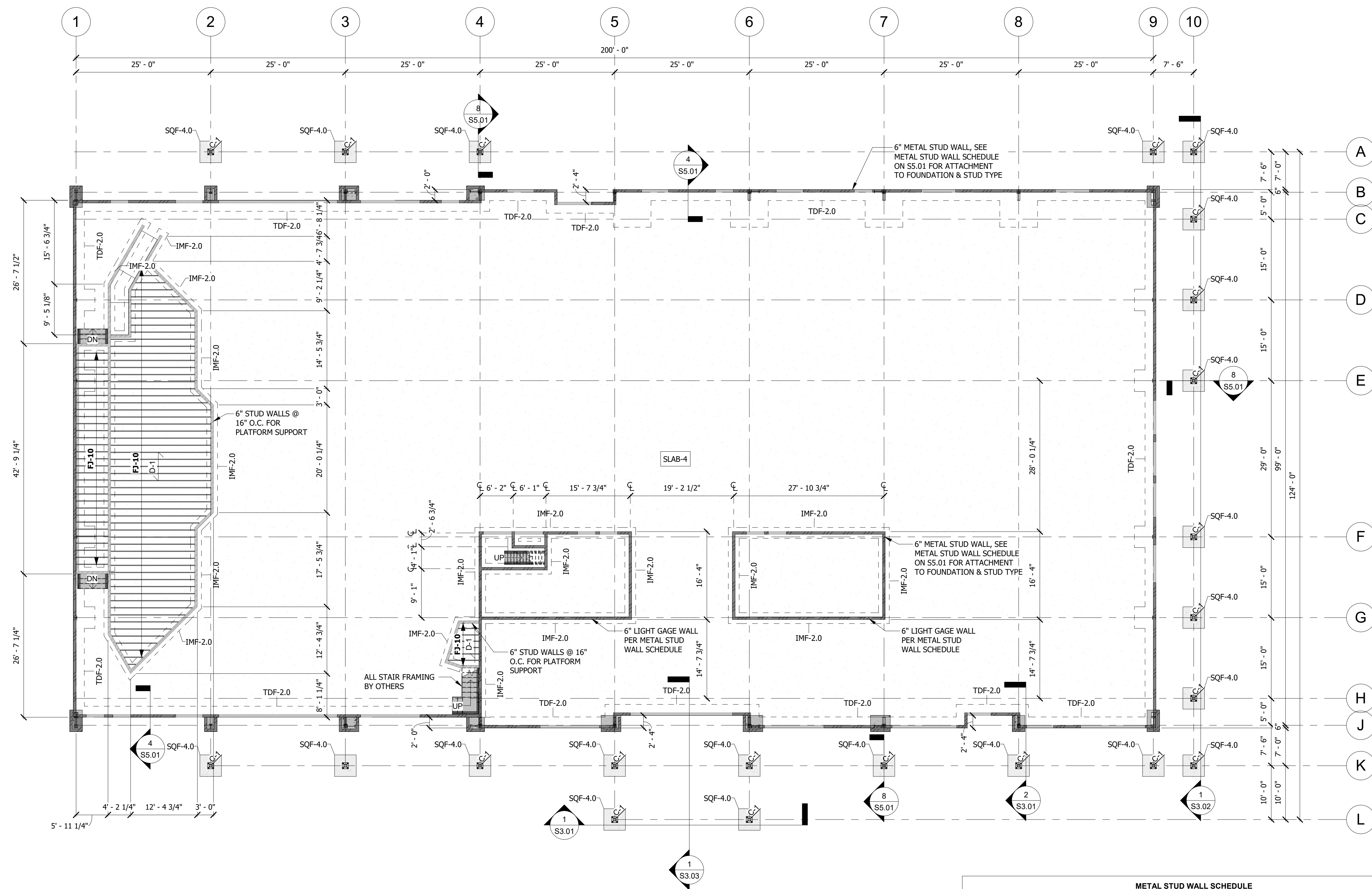
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**FOUNDATION PLAN NOTES:**

- SEE ARCHITECTURAL DRAWINGS FOR SLOPES, DROPS, AND DRAIN LOCATIONS IN SLABS.
- REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS OF ALL OPENINGS. VERIFY/COORDINATE SILL HEIGHTS AND DETAILS OF WALL OPENINGS WITH ARCHITECTURAL DRAWINGS.
- GENERAL CONTRACTOR: DO NOT SCALE DRAWINGS. COORDINATE DIMENSIONS BETWEEN STRUCTURAL AND ARCHITECTURAL DRAWINGS. NOTIFY STRUCTURAL ENGINEER AND ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.
- VERIFY ELEVATIONS OF ALL STRUCTURAL FOUNDATIONS AND FLOORS INDICATED ON THESE PLANS W/ ARCHITECTURAL DRAWINGS BEFORE COMMENCING CONSTRUCTION.
- "XXE-X-X" INDICATES CONCRETE FOUNDATION. SEE SCHEDULE THIS SHEET FOR SIZE, TYPE, & REINFORCING REQUIREMENTS.
- "C-X" INDICATES STRUCTURAL COLUMN. SEE COLUMN SCHEDULE THIS SHEET FOR COLUMN TYPE & DESIGN.
- "D-1" INDICATES 23/32" THICK OSB/PLYWOOD FLOOR SHEATHING.
 - EDGE NAILING: 6" O.C. MAX.
 - FIELD NAILING: 12" O.C. MAX.

FOUNDATION PLAN

3/32" = 1'-0"

METAL STUD WALL SCHEDULE

DESCRIPTION	METAL STUD TYPE & SPACING	BOTTOM TRACK & ATTACHMENT	TOP TRACK & ATTACHMENT
6" WIDE METAL STUD WALL (ALL HEIGHTS)	600S200-43 (33) KSI @ 16" O.C.	600T125-43 (33) KSI W/ (1) #12 TEK SCREW @ EACH FLANGE & (2) HILTI X-U PAF @ 16" O.C. 1-1/4" EMBEDMENT INTO FOUNDATION	600T250-54 (50) KSI DEFLECTION TRACK W/ (1) #12 TEK SCREW @ EACH FLANGE. ATTACH TRACK TO STEEL W/ (2) HILTI X-U PAF @ 12" O.C.

NOTE:

- PROVIDE LATERAL BRACING TO WALL STUDS @ 8' - 0" O.C.
- SEE METAL STUD FRAMING DETAILS ON SHEET S5.01 FOR ADDITIONAL INFORMATION NOT DESCRIBED HERE.

DRAWING LEGEND

MARK	DESCRIPTION
6"	6" METAL STUD WALL. SEE METAL STUD WALL SCHEDULE
FLOOR/ROOF JOIST	FLOOR/ROOF JOIST. SEE PLAN FOR TYPE & SIZE
STRUCTURAL BEAM/HEADERS	STRUCTURAL BEAM/HEADERS
SPAN DIRECTION OF FLOOR/ROOF SHEATHING.	SPAN DIRECTION OF FLOOR/ROOF SHEATHING.
STEP IN WALL OR FOUNDATION HEIGHT	STEP IN WALL OR FOUNDATION HEIGHT
1/2" Ø THREADED ROD	1/2" Ø THREADED ROD
C.J.	CONTROL JOINT
STEP IN SLAB ELEVATION	STEP IN SLAB ELEVATION
CONCRETE PIER	CONCRETE PIER

NOTES:

- HEADERS SHOWN ON PLANS ARE BELOW FLOOR OR ROOF FRAMING FOR THAT LEVEL.
- POSTS SHOULD BE INSTALLED BELOW ALL MULTI-PLY BEAMS OR GIRDERS DIRECTLY BELOW THE POINT OF BEARING (POST WIDTH TO MATCH BEAM/GIRDER WIDTH). POSTS SHALL PROVIDE CONTINUOUS LOAD PATH TO FOUNDATION WHERE POSSIBLE.

RAFTER/JOIST LEGEND

MARK	DESCRIPTION	BEARING CLIP
FJ-10	800S162-54 (50KSI) FLOOR JOISTS @ 16" O.C.	LS687

FOUNDATION SCHEDULE

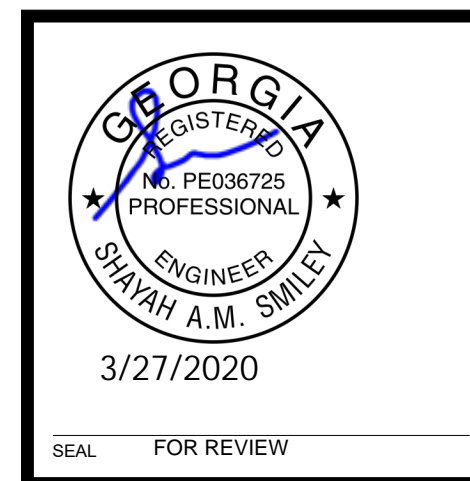
MARK	DESCRIPTION
IMF-2.0	2' - 0" WIDE x 1' - 0" DEEP CONTINUOUS INTERIOR MONOLITHIC WALL FOUNDATION. PROVIDE (3) #5 BARS BOTTOM CONTINUOUS & #3 TRANSVERSE BARS @ 24" O.C.
MPF-4.0	4' - 0" WIDE SQUARE x 1' - 6" DEEP MONOLITHIC PAD FOUNDATION @ PEMB COLUMNS W/ (6) #5 BARS EACH WAY BOTTOM
MPF-7.0	7' - 0" WIDE SQUARE x 1' - 6" DEEP MONOLITHIC PAD FOUNDATION @ PEMB COLUMNS W/ (8) #5 BARS EACH WAY BOTTOM
SLAB-4	4" THICK CONCRETE SLAB ON GRADE W/ 6x6 W1.4x1.4 W.W.F OVER 6 MIL. VAPOR BARRIER ON CLEAN COMPACTED FILL
SQF-4.0	4' - 0" SQUARE x 1' - 0" DEEP CONCRETE PAD FOUNDATION W/ (5) #5 BOTTOM BARS EACH WAY
SQF-7.0	7' - 0" SQUARE x 1' - 0" DEEP CONCRETE PAD FOUNDATION W/ (8) #5 BOTTOM BARS EACH WAY
SQF-8.0	8' - 0" SQUARE x 1' - 0" DEEP CONCRETE PAD FOUNDATION W/ (10) #5 BOTTOM BARS EACH WAY
TDF-2.0	2' - 0" WIDE x 1' - 6" DEEP TURN DOWN SLAB FOUNDATION. PROVIDE (3) #5 CONTINUOUS BOTTOM BARS & #3 TRANSVERSE BARS @ 24" O.C.

STEEL COLUMN SCHEDULE

MARK	DESCRIPTION	BASE PLATE
C-1	HSS6x6x1/2	14"x14"x3/4" THICK STEEL BASE PLATE W/ (4) 3/4" x 1'-0" LONG ANCHOR BOLT

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DRAWING LEGEND	
MARK	DESCRIPTION
	6" METAL STUD WALL. SEE METAL STUD WALL SCHEDULE
	FLOOR/ROOF JOIST. SEE PLAN FOR TYPE & SIZE
	STRUCTURAL BEAM/HEADERS
	SPAN DIRECTION OF FLOOR/ROOF SHEATHING.
	STEP IN WALL OR FOUNDATION HEIGHT
	1/2" Ø THREADED ROD
C.J.	CONTROL JOINT
	STEP IN SLAB ELEVATION
	CONCRETE PIER

NOTES:

- HEADERS SHOWN ON PLANS ARE BELOW FLOOR OR ROOF FRAMING FOR THAT LEVEL. POSTS SHOULD BE INSTALLED BELOW ALL MULTI-PLY BEAMS OR GIRDERS DIRECTLY BELOW THE POINT OF BEARING (POST WIDTH TO MATCH BEAM/GIRDER WIDTH). POSTS SHALL PROVIDE CONTINUOUS LOAD PATH TO FOUNDATION WHERE POSSIBLE.
-

RAFTER/JOIST LEGEND		
MARK	DESCRIPTION	BEARING CLIP
FJ-10	800S162-54 (50KSI) FLOOR JOISTS @ 16" O.C.	LS687

ROOF FRAMING PLAN NOTES:

- SEE ARCHITECTURAL DRAWINGS FOR SLOPES, DROPS, AND DRAIN LOCATIONS IN FLOORS & ROOFS. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS OF ALL OPENINGS. VERIFY/COORDINATE SILL HEIGHTS AND DETAILS OF WALL OPENINGS WITH ARCHITECTURAL DRAWINGS.
- INSTALL BOXED HEADERS PER SCHEDULE THIS SHEET ABOVE ALL OPENINGS IN METAL STUD WALL. VERIFY LOCATIONS OF OPENINGS W/ ARCHITECTURAL DRAWINGS. SEE WALL STUD SCHEDULE THIS SHEET FOR EXTERIOR WALL STUD SIZES & ATTACHMENTS.
- GENERAL CONTRACTOR: DO NOT SCALE DRAWINGS. COORDINATE DIMENSIONS BETWEEN STRUCTURAL AND ARCHITECTURAL DRAWINGS. NOTIFY STRUCTURAL ENGINEER AND ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.
- "D-1" INDICATES 23/32" THICK OSB/PLYWOOD FLOOR SHEATHING.
 - EDGE NAILING: 6" O.C. MAX.
 - FIELD NAILING: 12" O.C. MAX.
- "D-2" INDICATES METAL ROOF DECK (1.5B20). FASTENER PATTERN SHALL BE 36/3/3 AS FOLLOWS:
 - END LAPS: (3) #12-24 x 1 1/4" LONG FASTENERS AT EACH 36" WIDE SHEET
 - SIDE LAPS: (3) #12 x 3/4" LONG FASTENERS PER SPAN

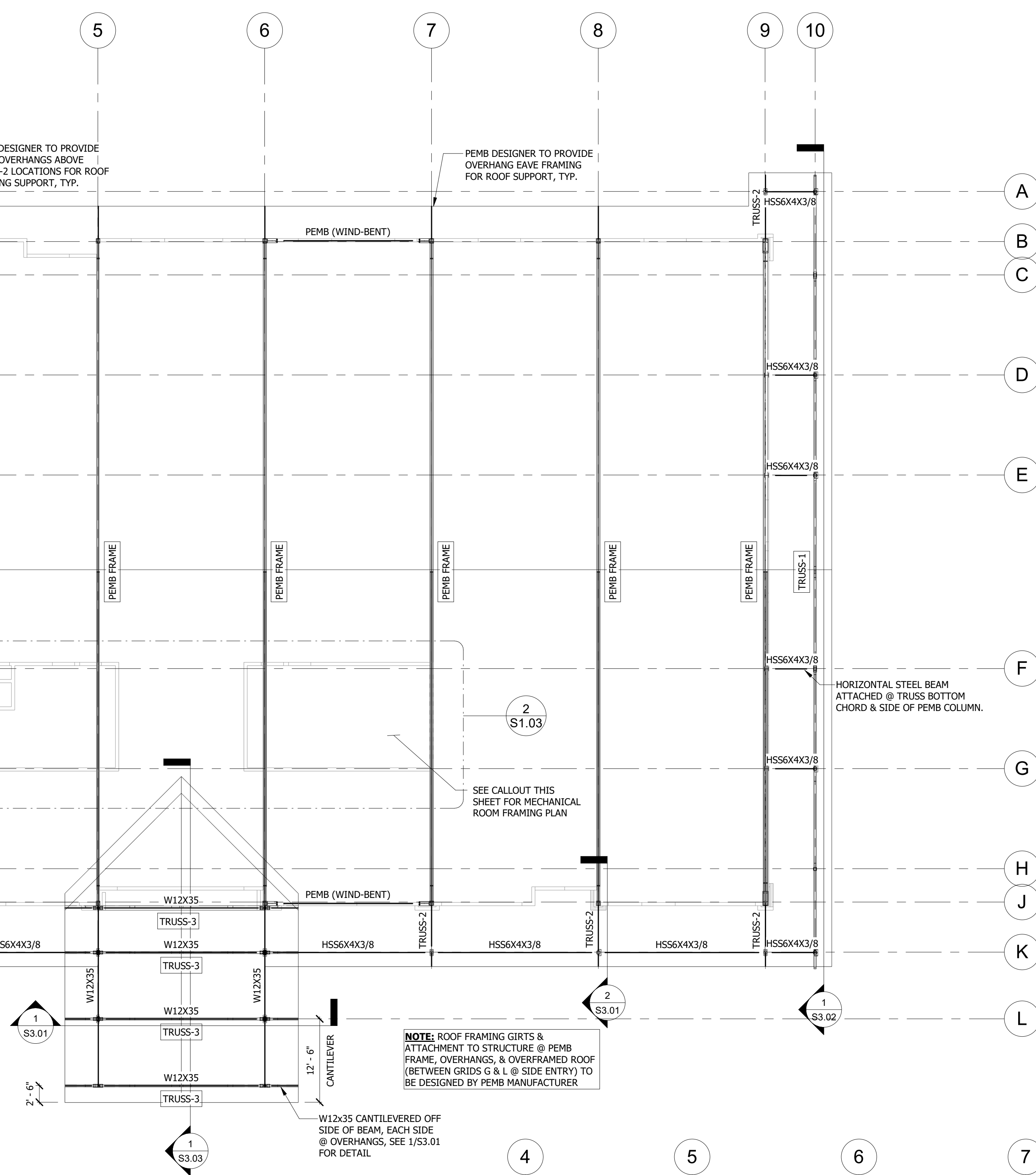
METAL STUD WALL HEADER/JAMB SCHEDULE		
OPENING WIDTH	HEADER	JAMB STUDS
H-1 ≤ 6' - 0"	(2) 600S200-54 (50 KSI) W/ (2) 600T200-54 (50 KSI)	(2) 600S200-68 (50 KSI)
H-2 ≤ 10' - 0"	(2) 800S200-54 (50 KSI) W/ (2) 600T200-54 (50 KSI)	(2) 600S162-68 (50 KSI)
H-3 ≤ 20' - 0"	(2) 1200S200-97 (50 KSI) W/ (2) 600T200-68 (50 KSI)	(3) 600S200-97 (50 KSI)

NOTE:

- PROVIDE 600T200-54 (50 KSI) SILL BELOW ALL WINDOW OPENINGS
- ATTACH JAMB BOTTOMS PER DETAIL S/S5.01
- ATTACH JAMB TOPS W/ (2) CLARKDIETRICH FASTTOP CLIPS FTCS WITH (3) PROPRIETARY SCREWS TO STUD AND (2) HILTI X-U PAF TO THE STEEL
- ATTACH HEADER TO JAMB PER DETAIL 9/S5.01
- SEE METAL STUD FRAMING DETAILS ON SHEET S/S.01 FOR ADDITIONAL INFORMATION NOT DESCRIBED HERE.

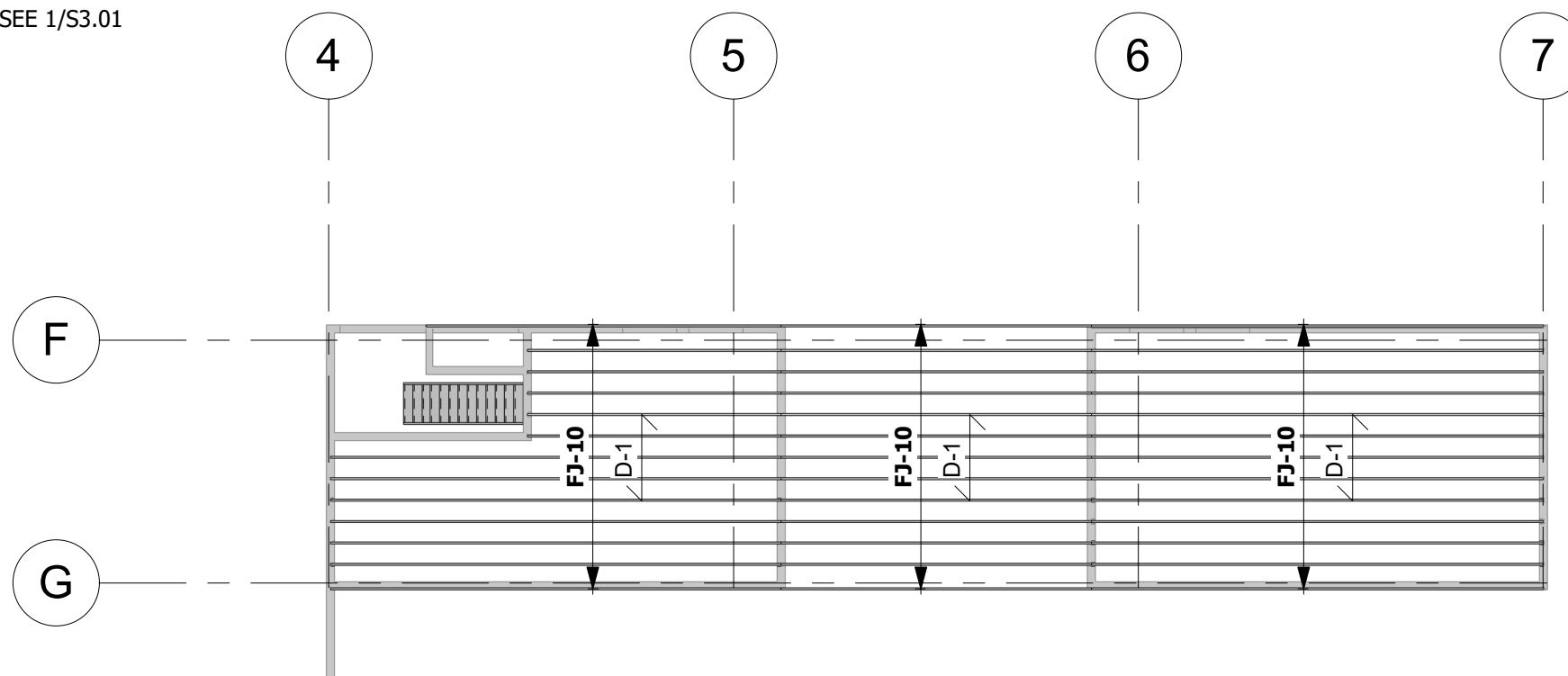
ROOF FRAMING PLAN

3/32" = 1'-0"



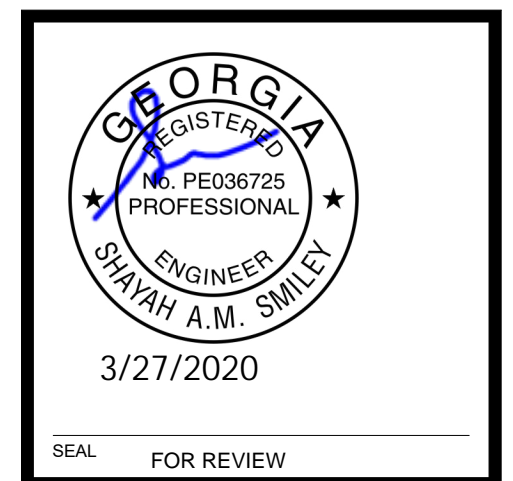
MECHANICAL ROOM FLOOR FRAMING PLAN

3/32" = 1'-0"

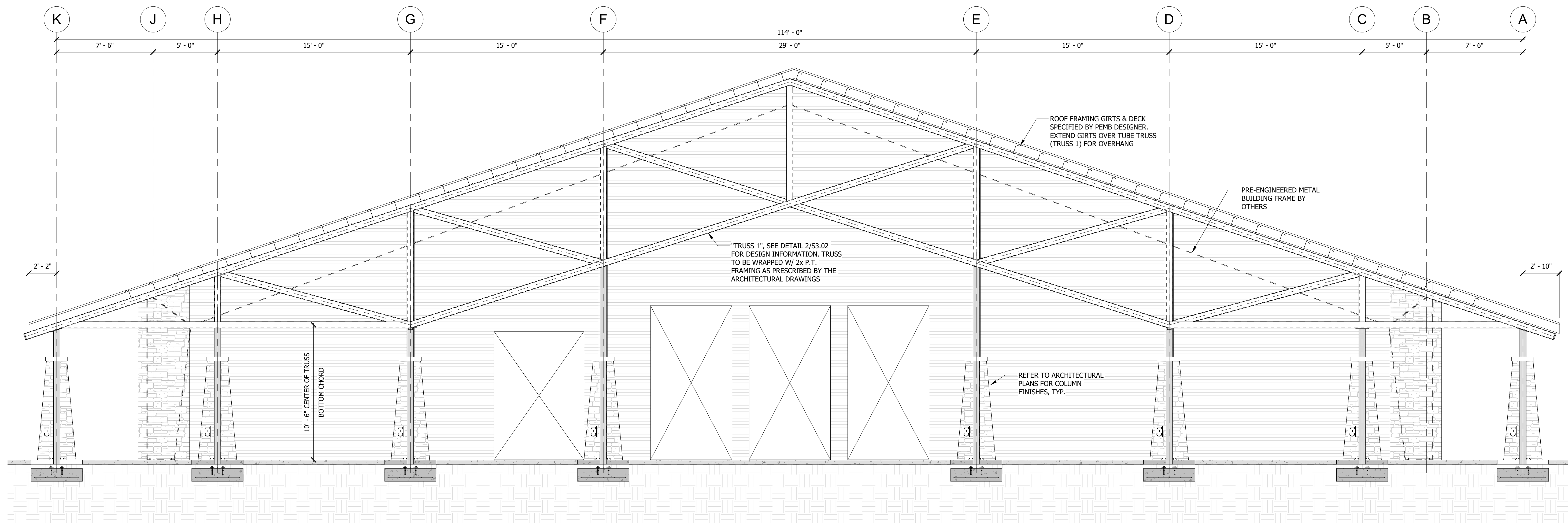
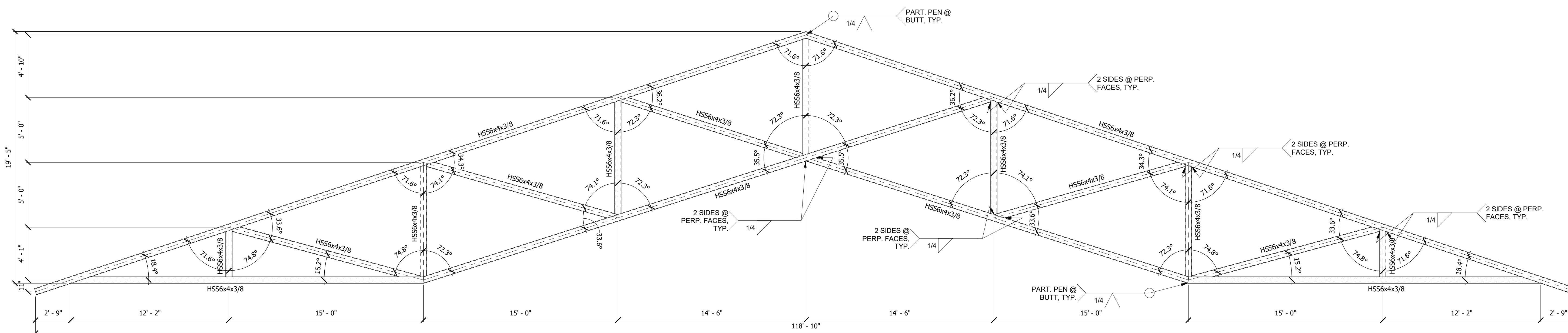
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**1 BUILDING ELEVATION @ TRUSS 1**
1/4" = 1'-0"**2 TRUSS 1 PROFILE DESIGN**
1/4" = 1'-0"**TRUSS NOTES:**

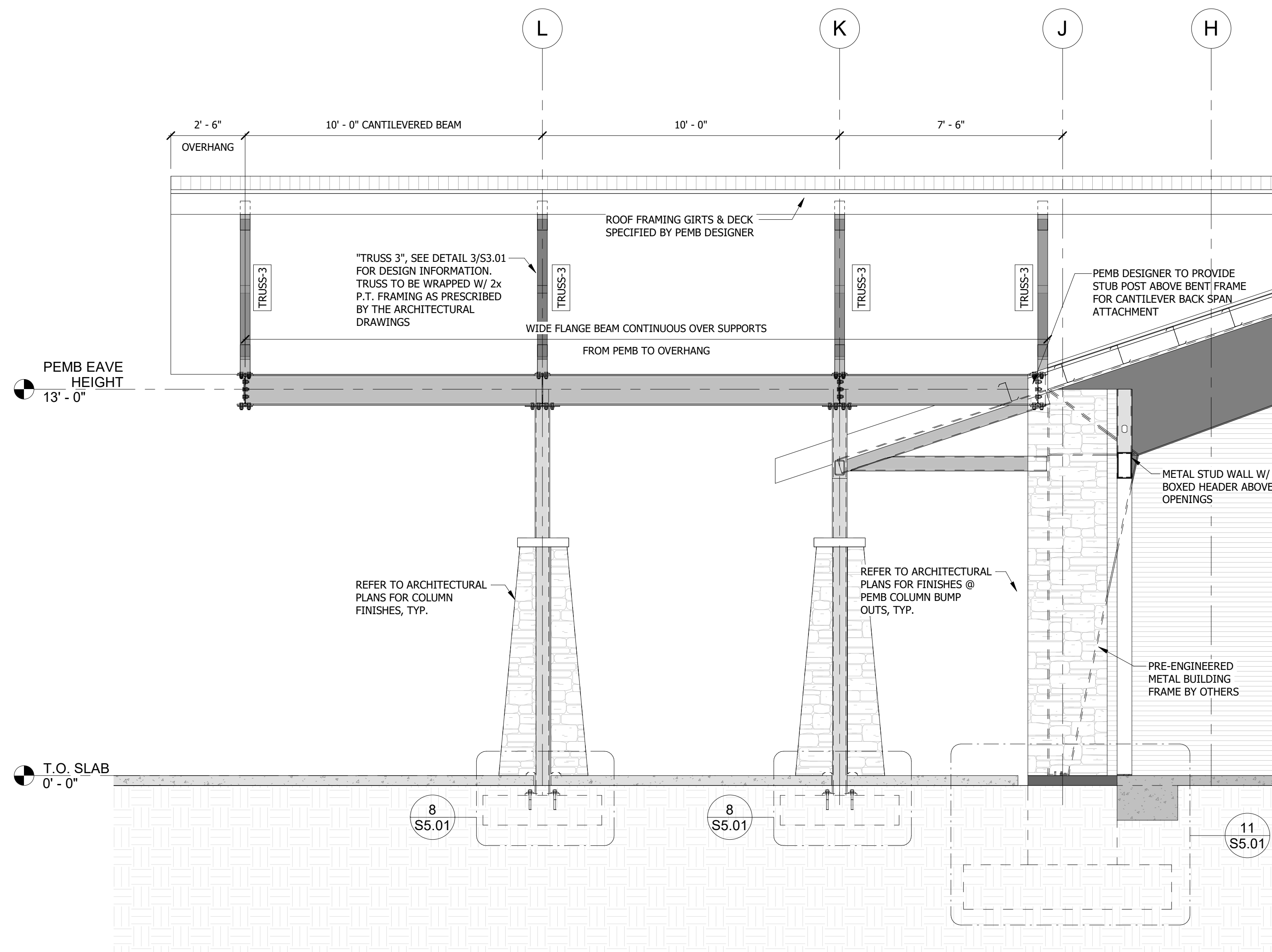
- ALL TUBE BUTT JOINTS TO BE 1/4" PARTIAL PENETRATION (60°) WELDS.
- TRUSS FABRICATOR TO PROVIDE SPLICE DETAILS FOR ASSEMBLY ON SITE IF REQUIRED. ALL MEMBERS TO BE SPLICED SHALL BE DETAILED SUCH THAT THE FRAMING ACTS AS A CONTINUOUS SOLID MEMBER. SHOP DRAWINGS ARE TO BE PROVIDED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO APPROVAL AND FABRICATION.
- TRUSS MEMBERS TO BE CONSTRUCTED FROM HSS6x4x3/8 TUBES U.N.O.
- ANGLES AND DIMENSIONS SHOWN SHOULD BE VERIFIED WITH THE ARCHITECTURAL & PEMB DRAWINGS PRIOR TO FABRICATION. NOTIFY ENGINEER & ARCHITECT OF ANY DISCREPANCIES THAT MAY ALTER THE DESIGN.
- SEE GENERAL STRUCTURAL NOTES FOR AISC & STEEL CODE & MATERIAL REQUIREMENTS.
- STEEL TRUSS IS TO BE WRAPPED IN 2x P.T. WOOD FRAMING AS PRESCRIBED BY THE ARCHITECTURAL DRAWINGS.

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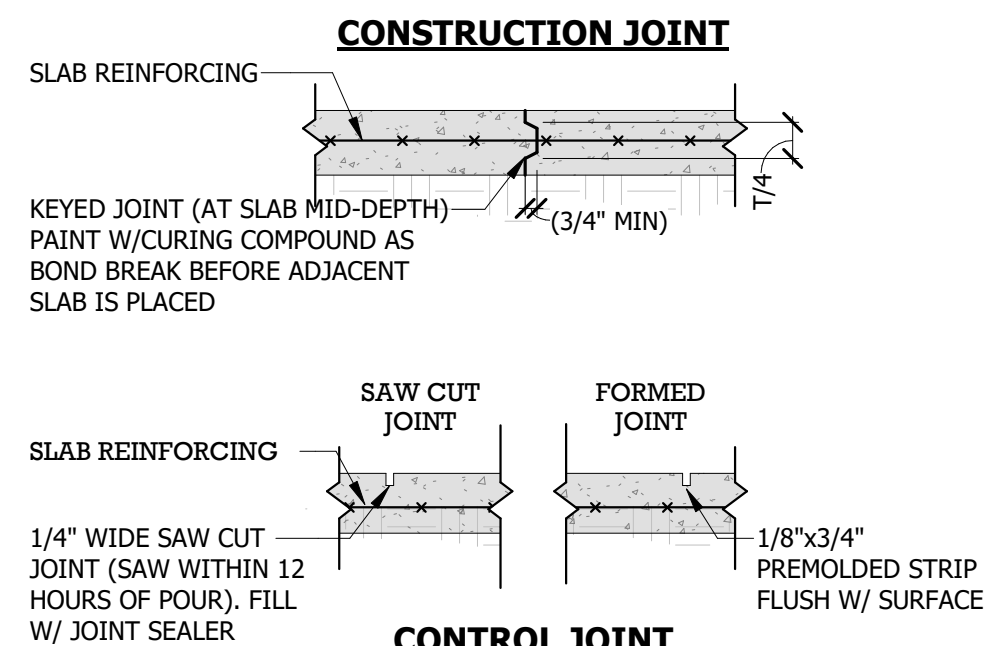
1 SIDE ENTRY SECTION @ OVER FRAMED ROOF
3/8" = 1'-0"

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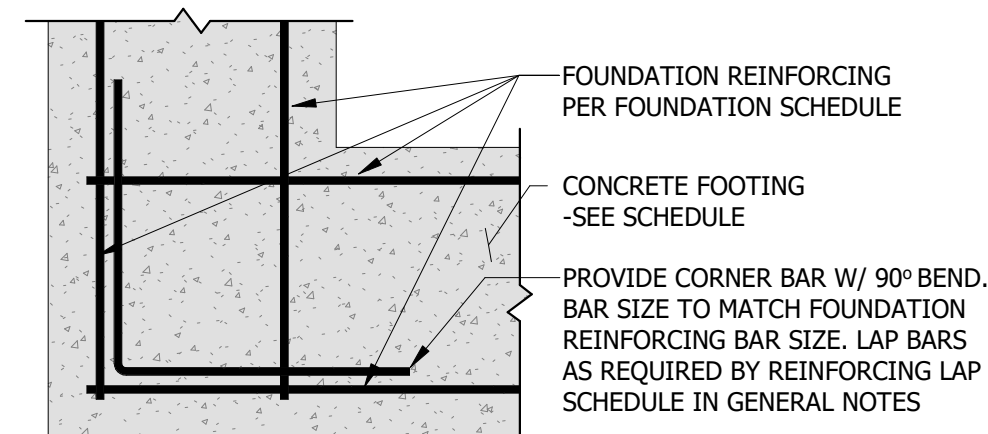
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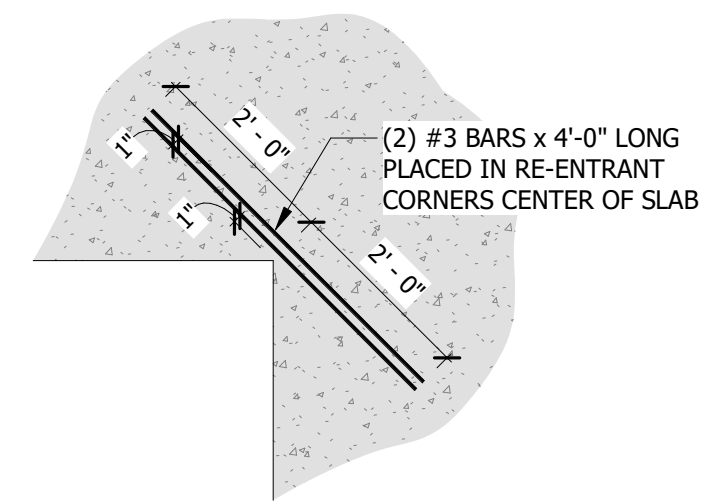
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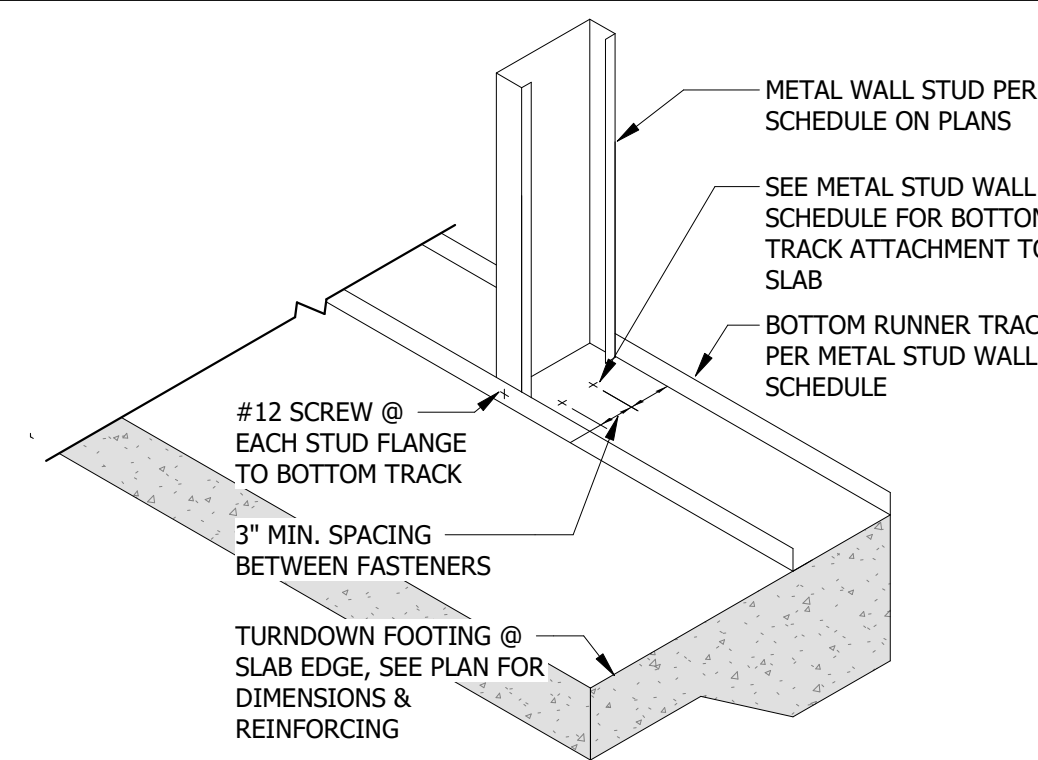
1 TYPICAL CONCRETE SLAB JOINT DETAILS
3/4" = 1'-0"



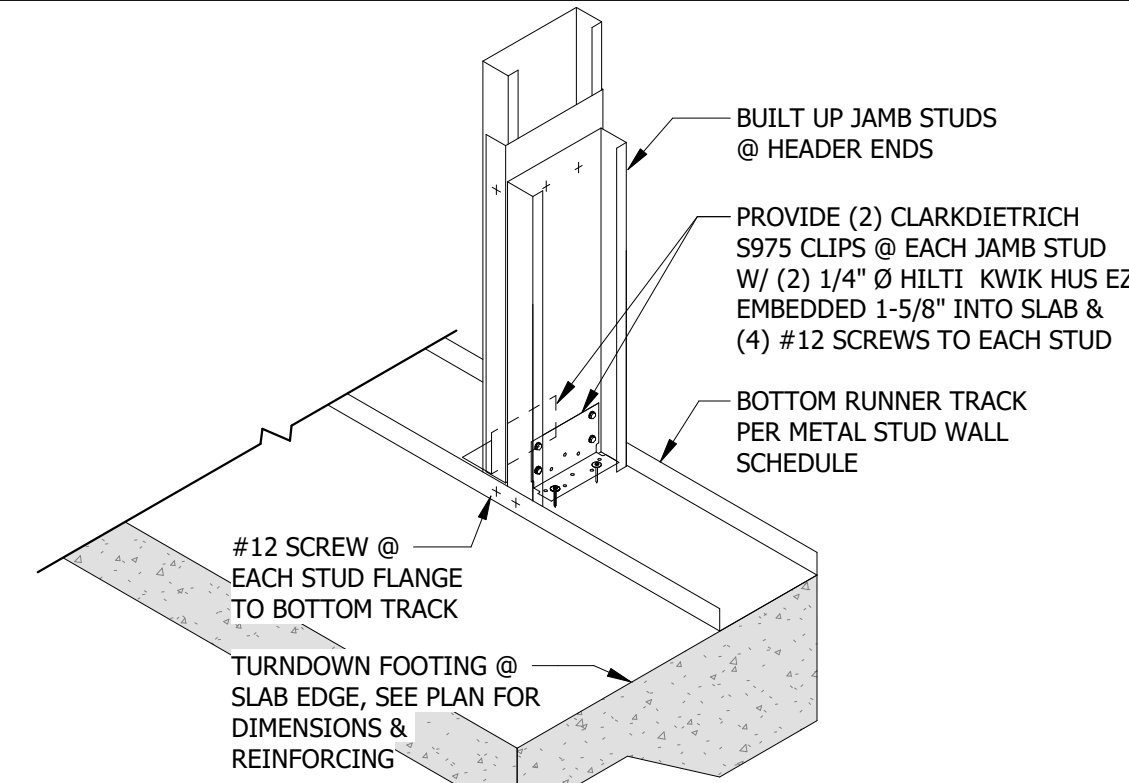
2 TYPICAL FOUNDATION CORNER REINFORCING
3/4" = 1'-0"



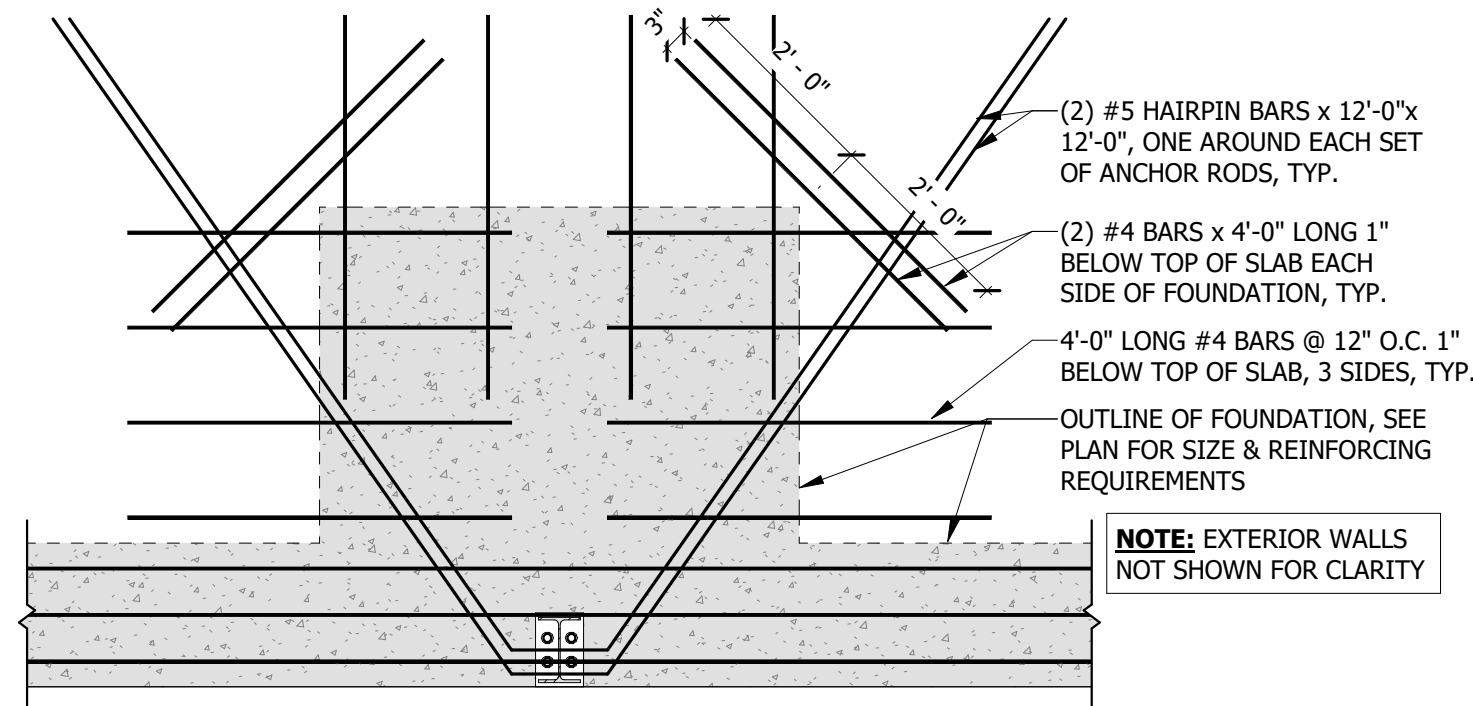
3 SLAB RE-ENTRANT CORNER REINFORCING
1/2" = 1'-0"



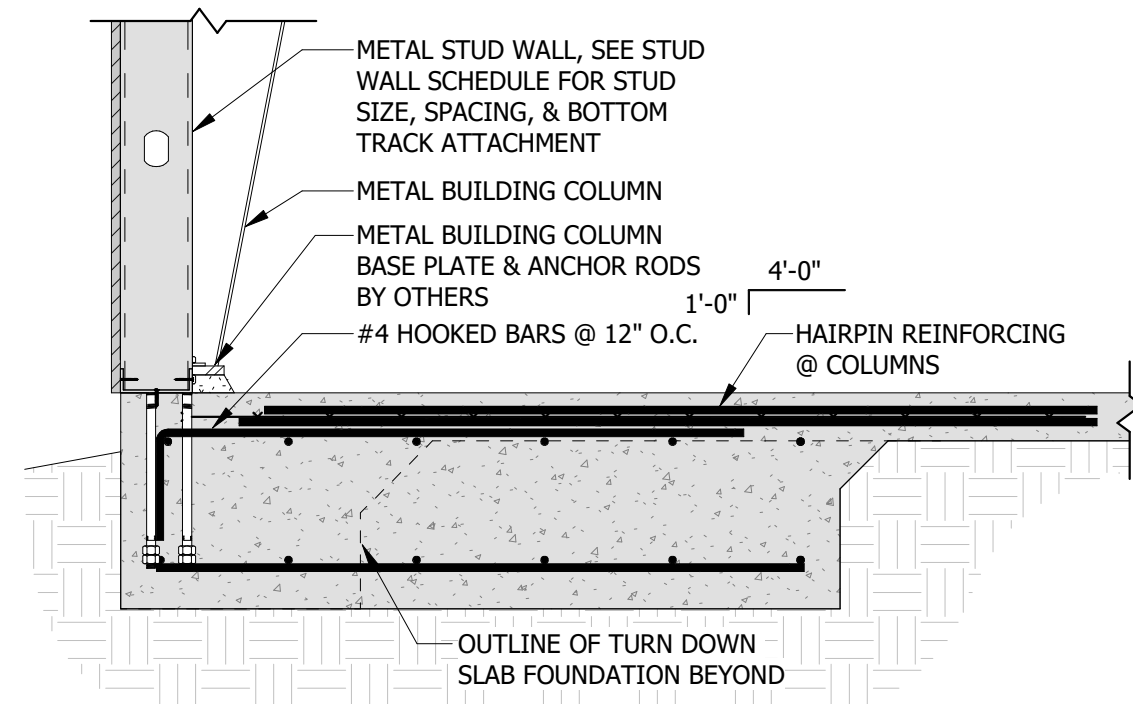
4 METAL STUD WALL BOTTOM TRACK ATTACHMENT
3/4" = 1'-0"



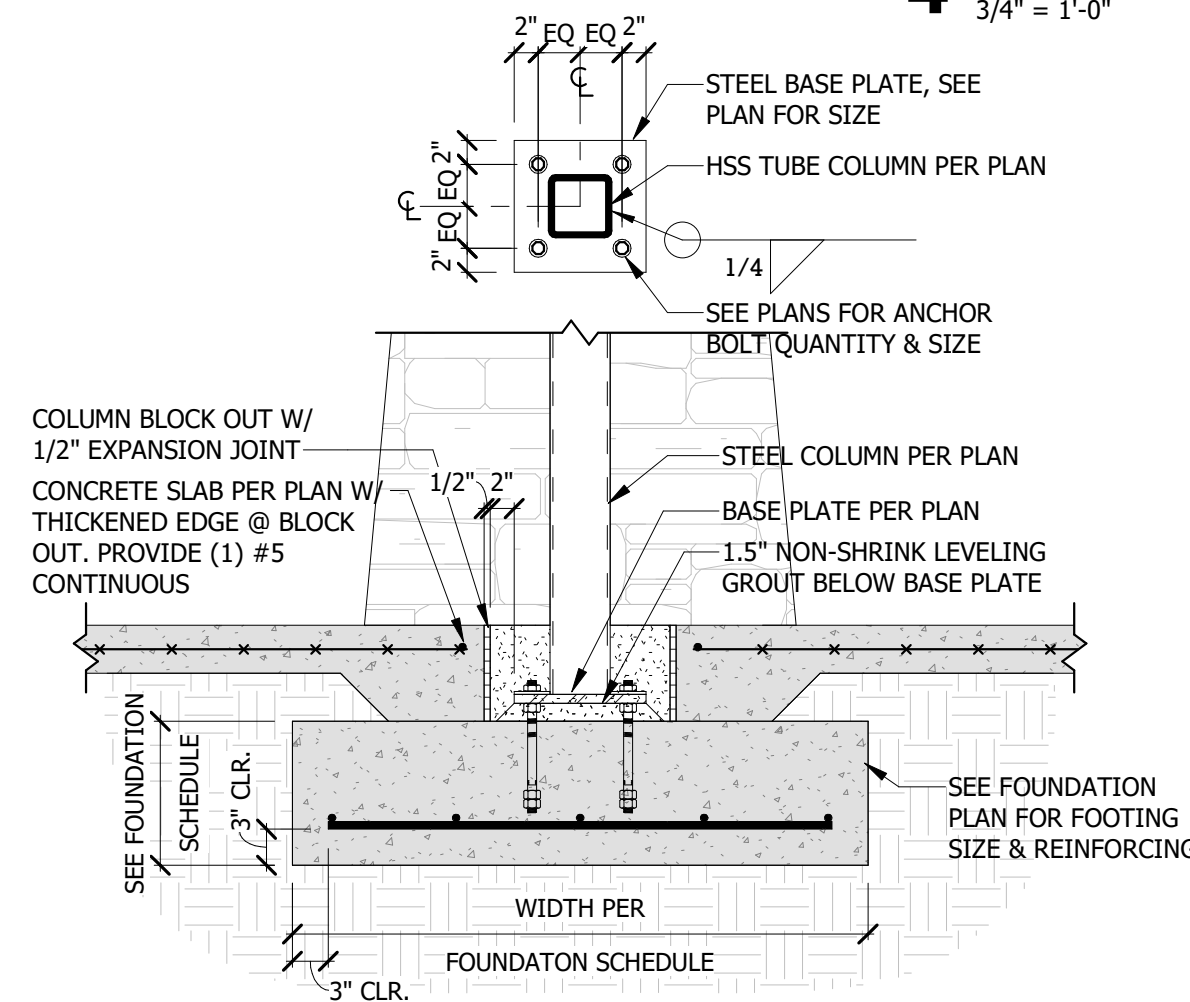
5 JAMB STUD BOTTOM ATTACHMENT @ FOUNDATION
3/4" = 1'-0"



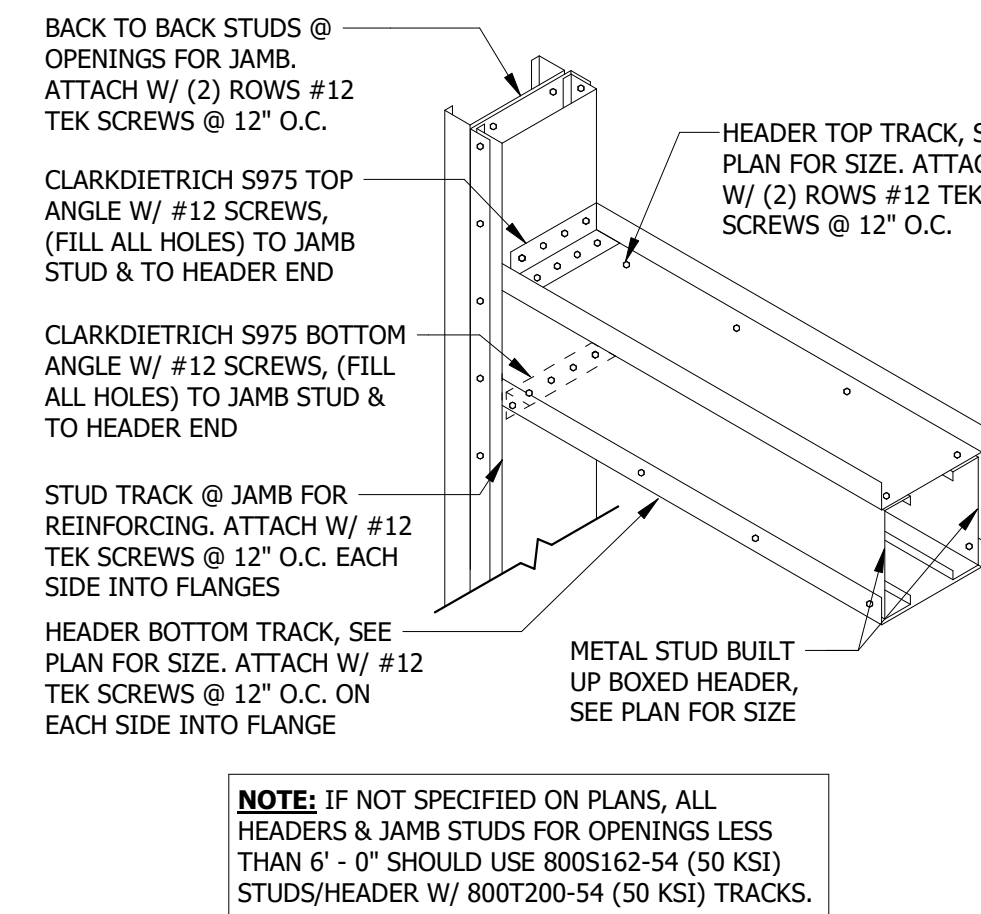
6 HAIRPIN & TRANSITION BARS @ \"PEMB\" MONOLITHIC FOUNDATION
1/2\" = 1'-0"



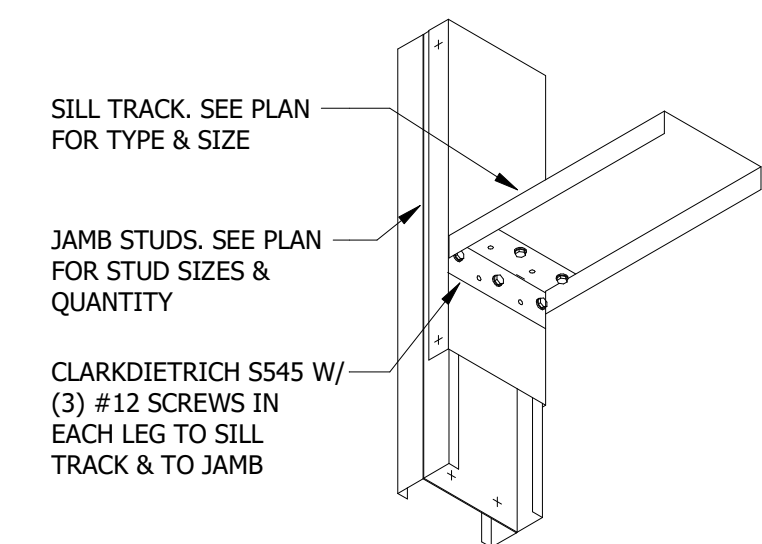
7 \"PEMB\" COLUMN FOUNDATION W/ METAL STUD WALL
3/4\" = 1'-0"



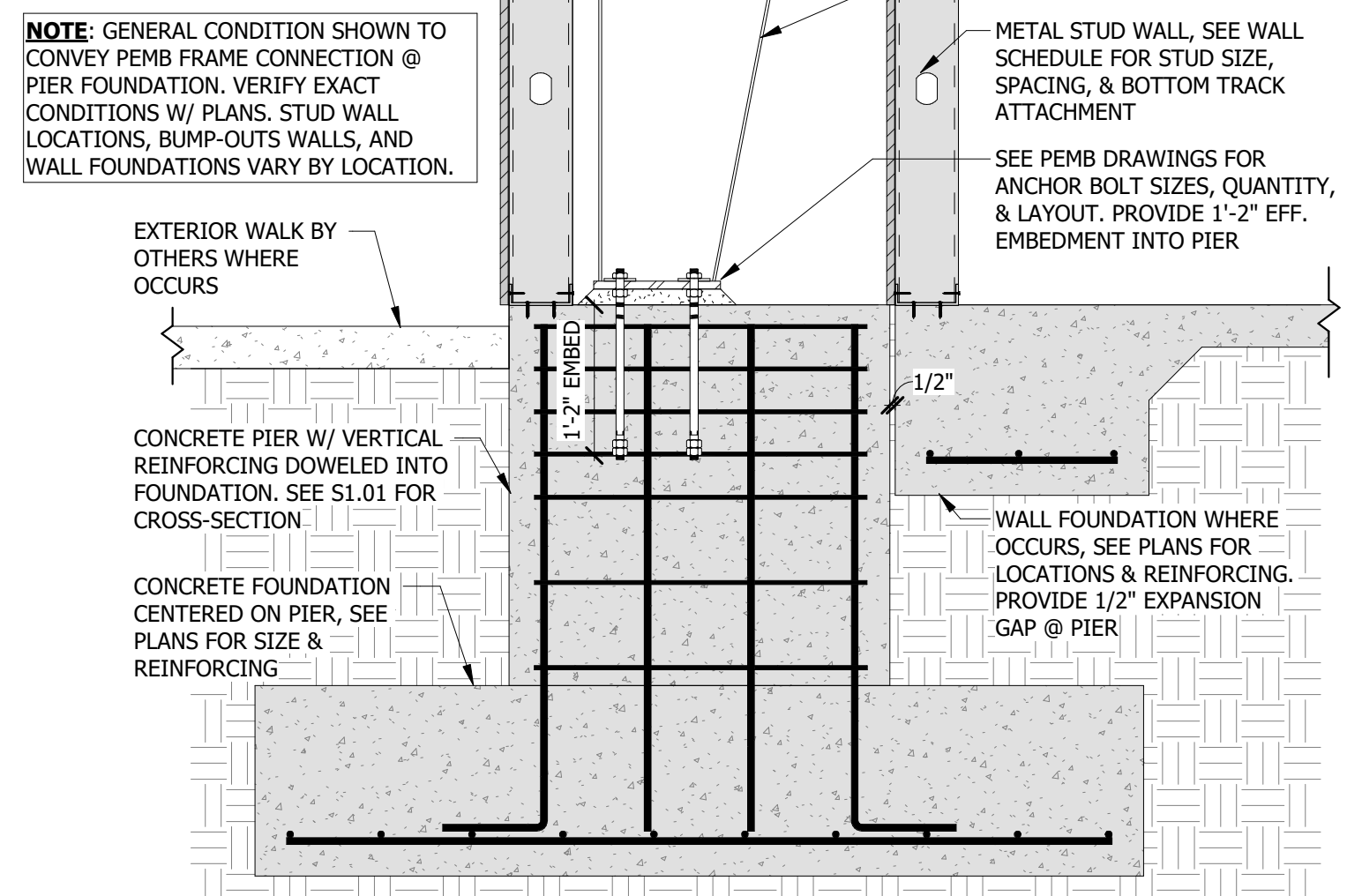
8 HSS COLUMN FOUNDATION
3/4\" = 1'-0"



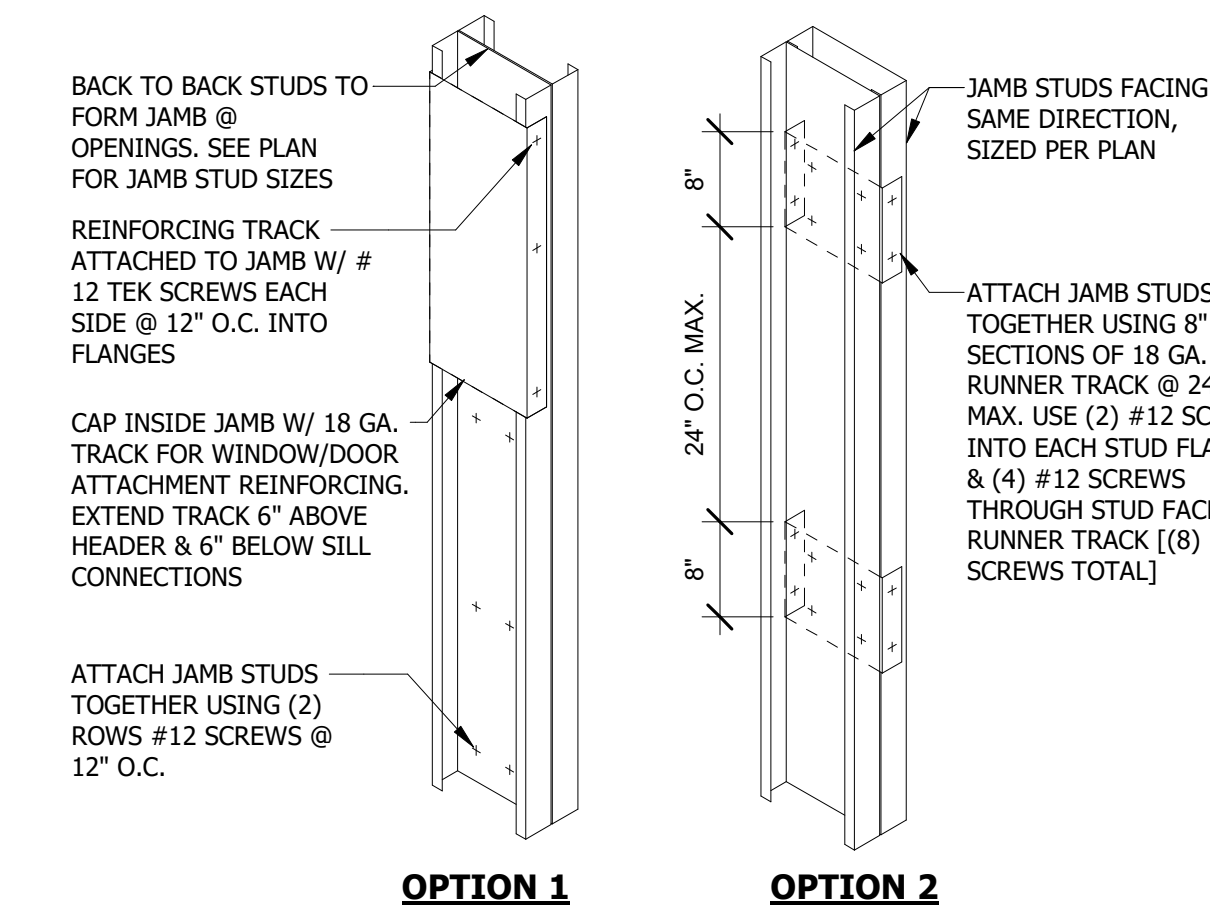
9 BOXED HEADER @ METAL STUD JAMB DETAIL
3/4\" = 1'-0"



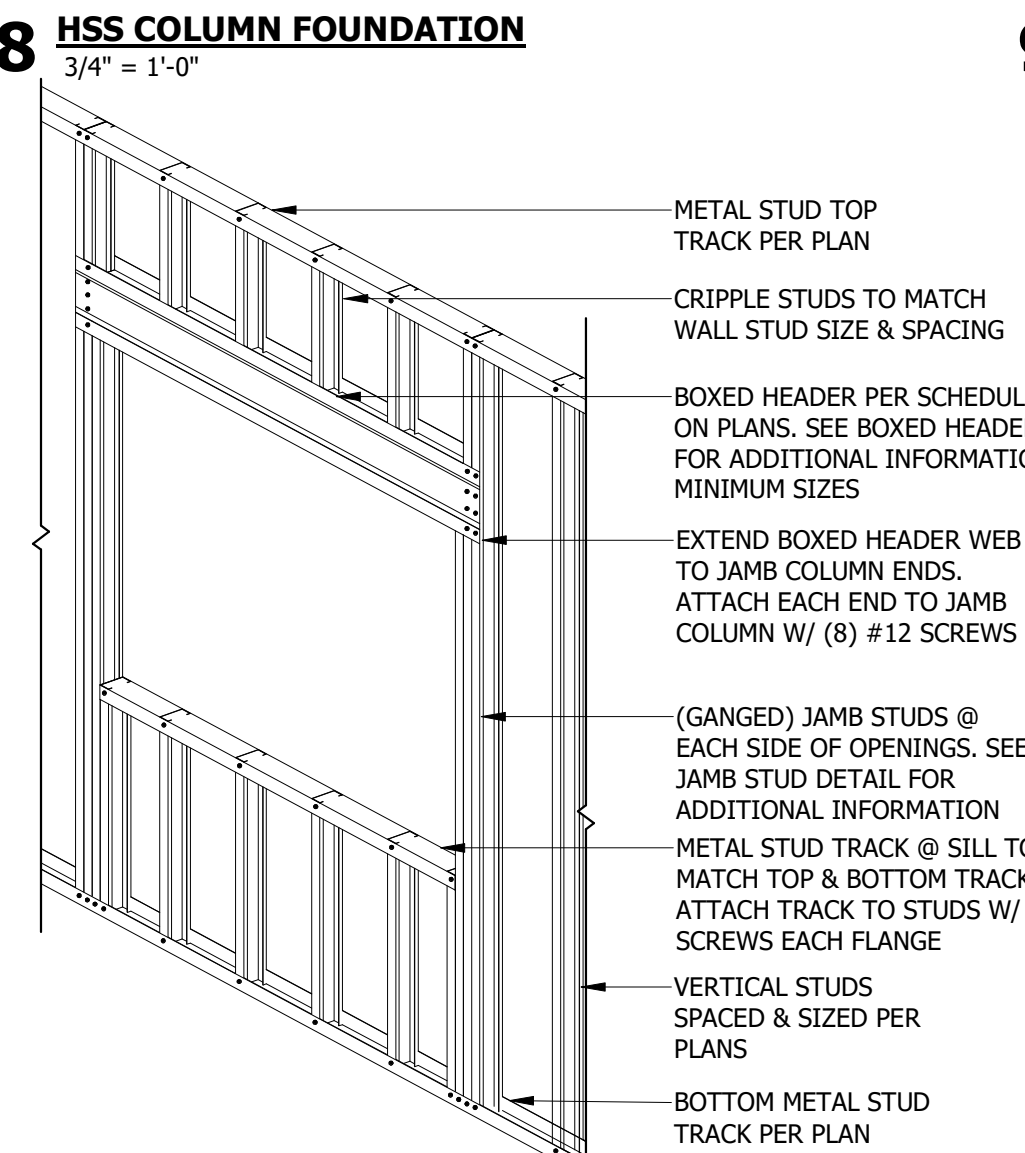
10 TYPICAL SILL TRACK @ OPENINGS
3/4\" = 1'-0"



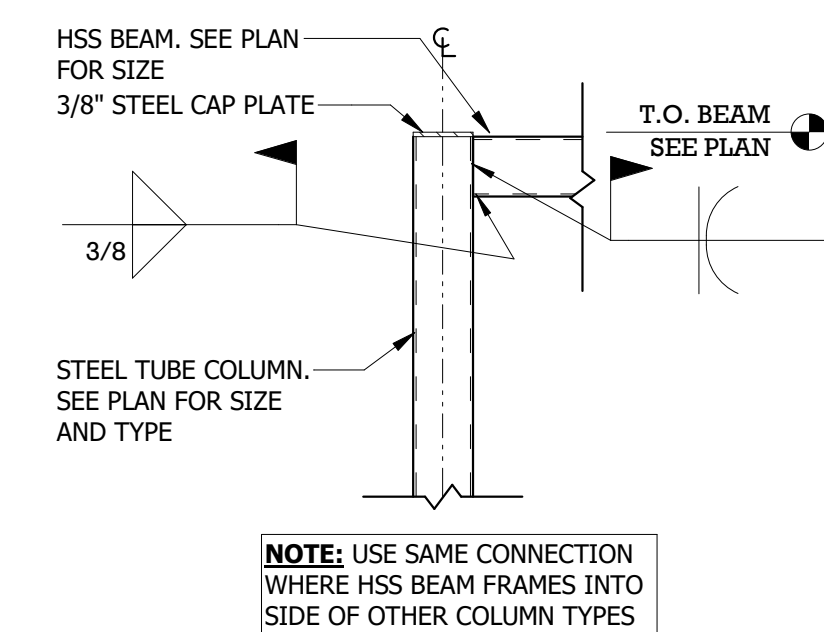
11 STEEL COLUMN @ CONCRETE PIER
3/4\" = 1'-0"



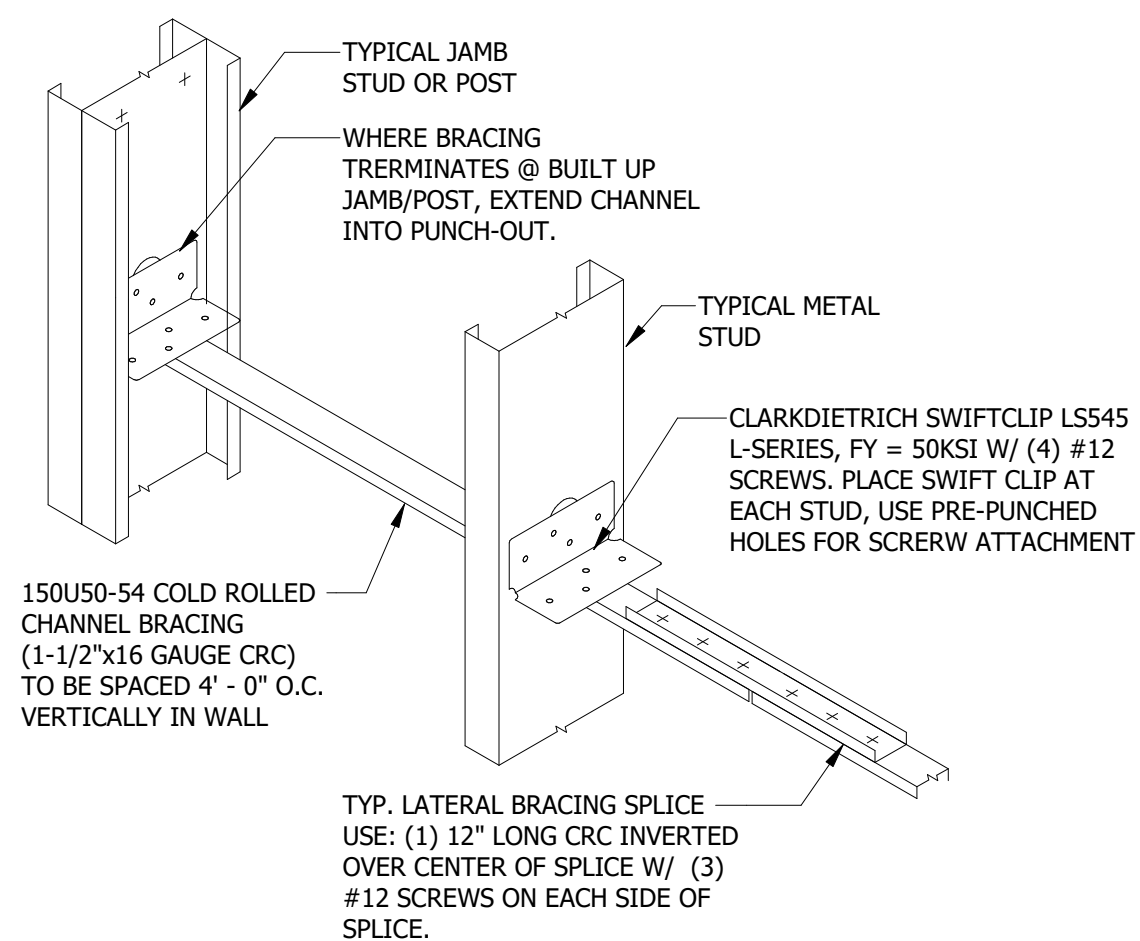
12 BUILT UP JAMB STUDS
3/4\" = 1'-0"



13 OPENING IN METAL STUD WALL
1/2\" = 1'-0"

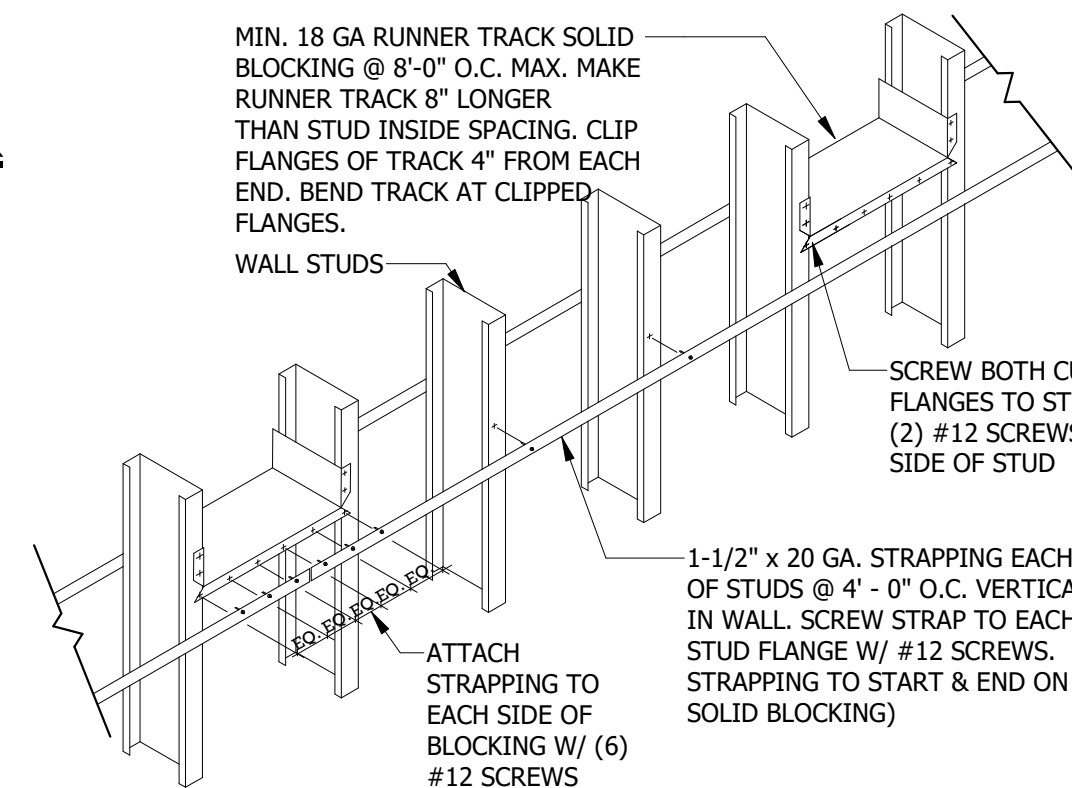


14 HSS BEAM TERMINATING @ HSS COLUMN
3/4\" = 1'-0"

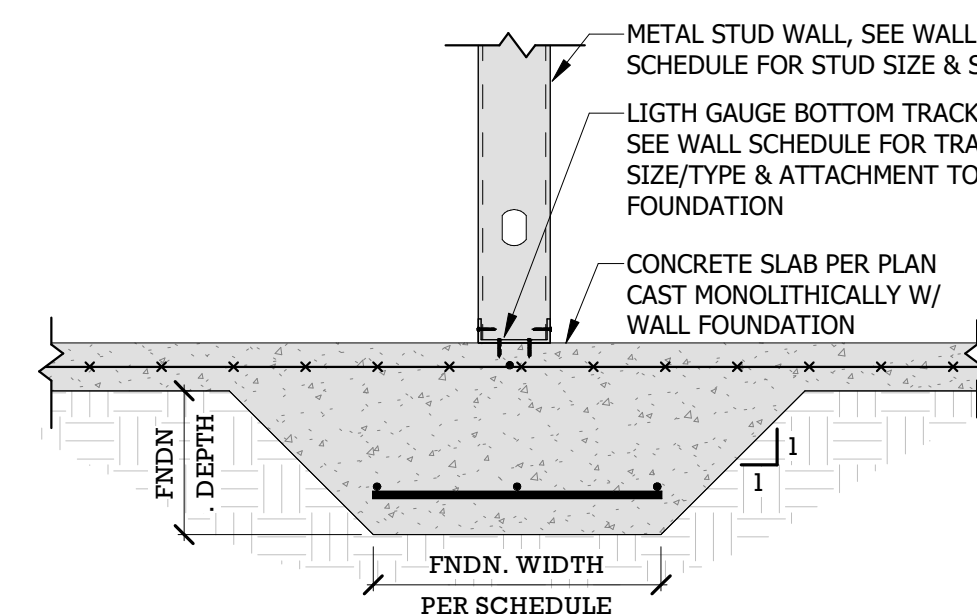


15 LATERAL BRACING IN METAL STUD WALL W/ BRIDGING CHANNEL
3/4\" = 1'-0"

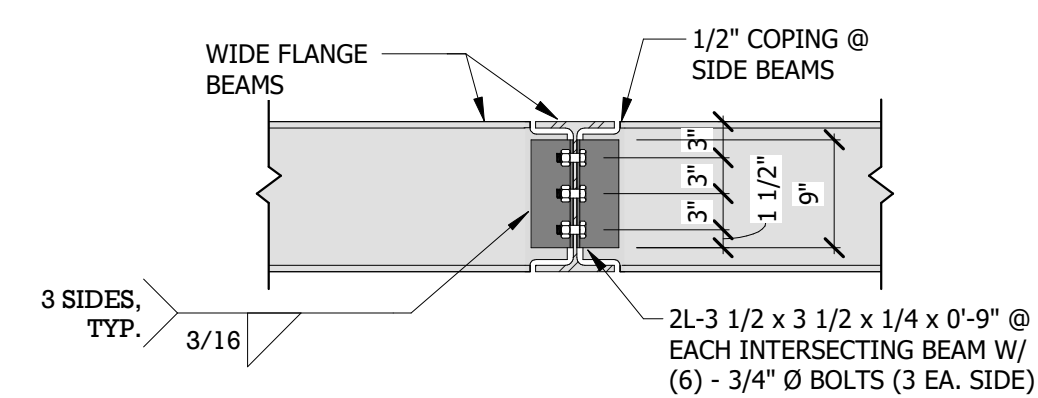
OR



16 LATERAL BRACING IN METAL STUD WALL W/ METAL STRAPS
3/4\" = 1'-0"



17 INTERIOR MONOLITHIC FOUNDATION @ WOOD WALL
3/4\" = 1'-0"



18 WIDE FLANGE BEAM SHEAR CONNECTION
3/4\" = 1'-0"

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ARCHITECT OF RECORD
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3/27/2020
SEAL FOR REVIEW

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STRUCTURAL DETAILS

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