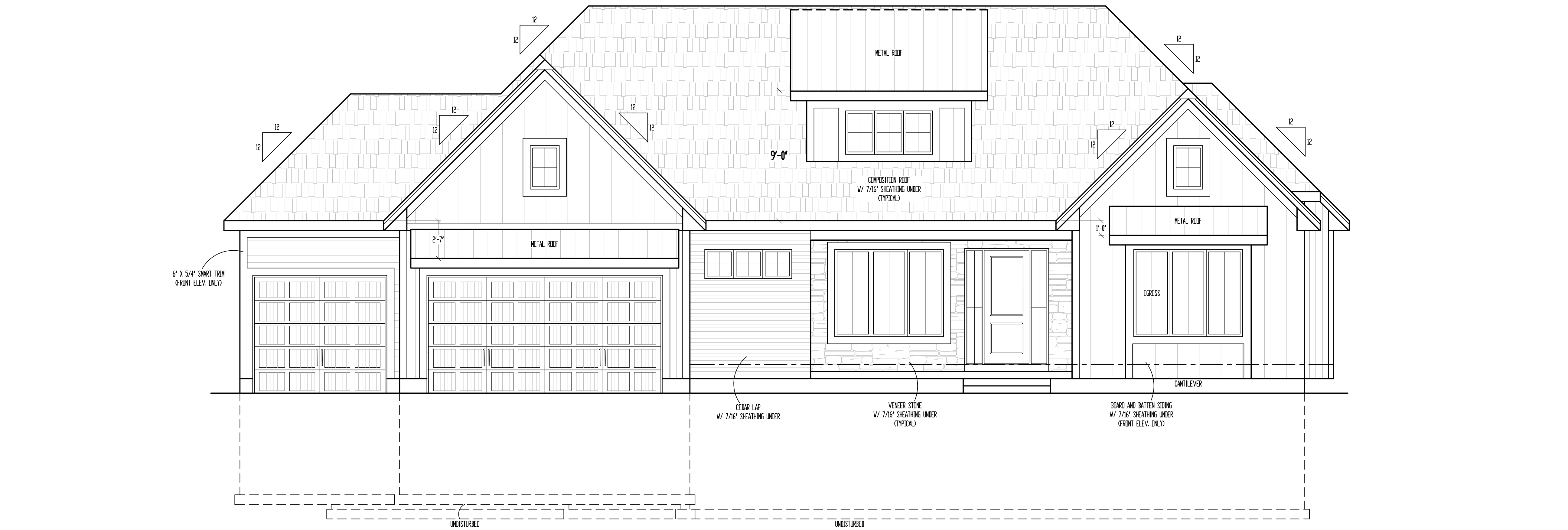
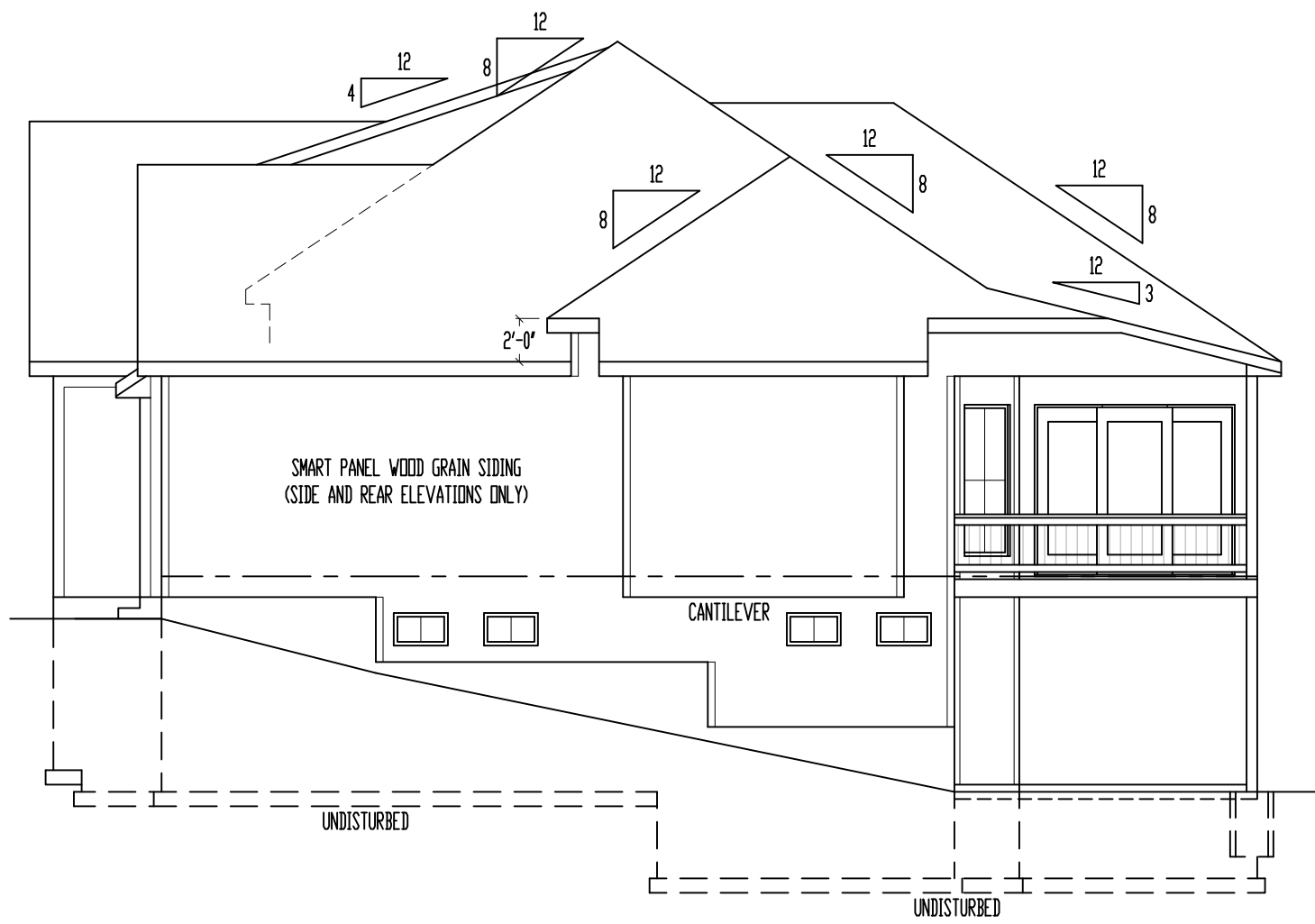


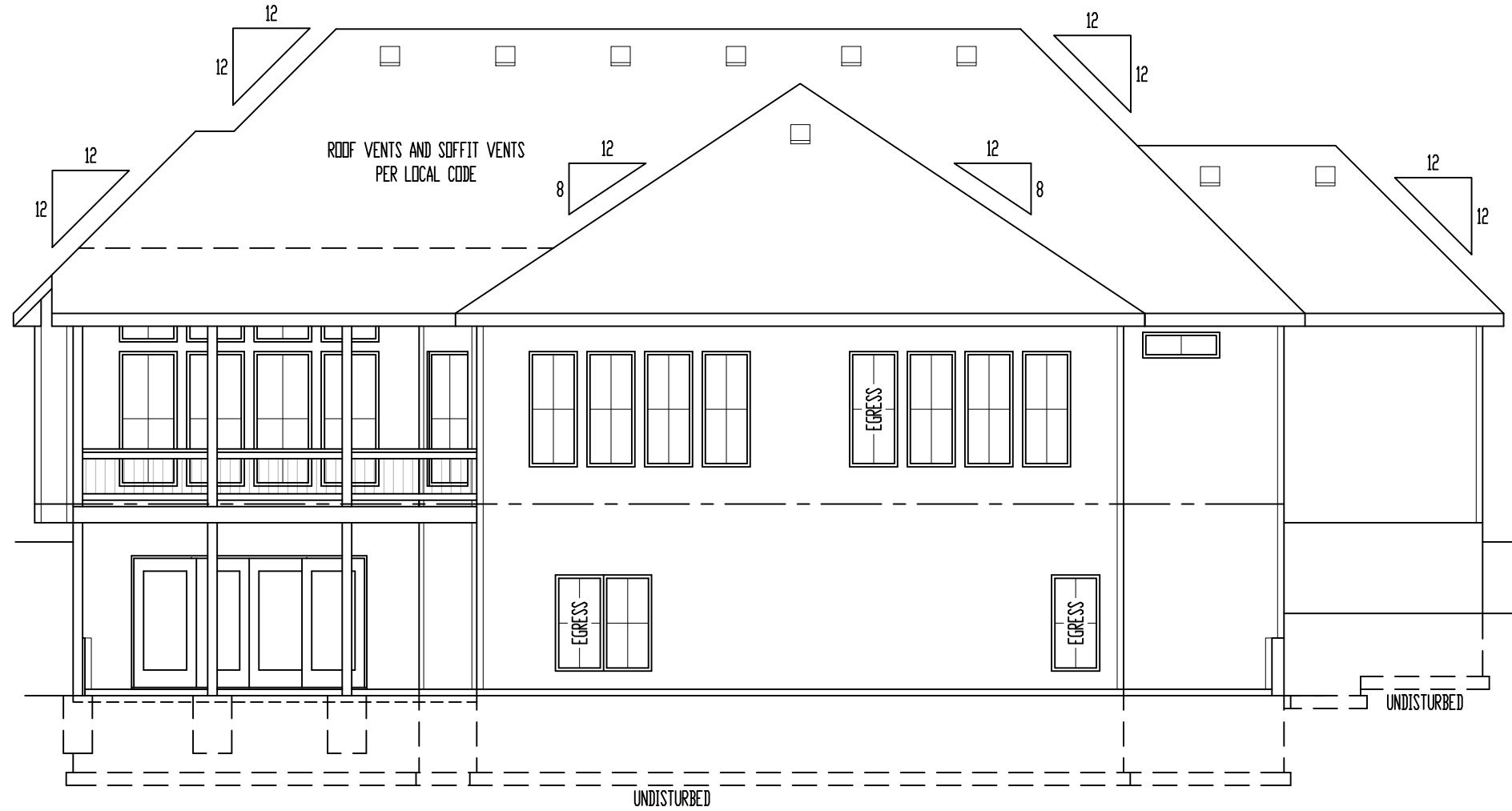
NOTE: GOVERNING CODES &
GENERAL CONTRACTOR'S WRITTEN SPECIFICATIONS
TAKE PRECEDENCE OVER THESE PLANS.



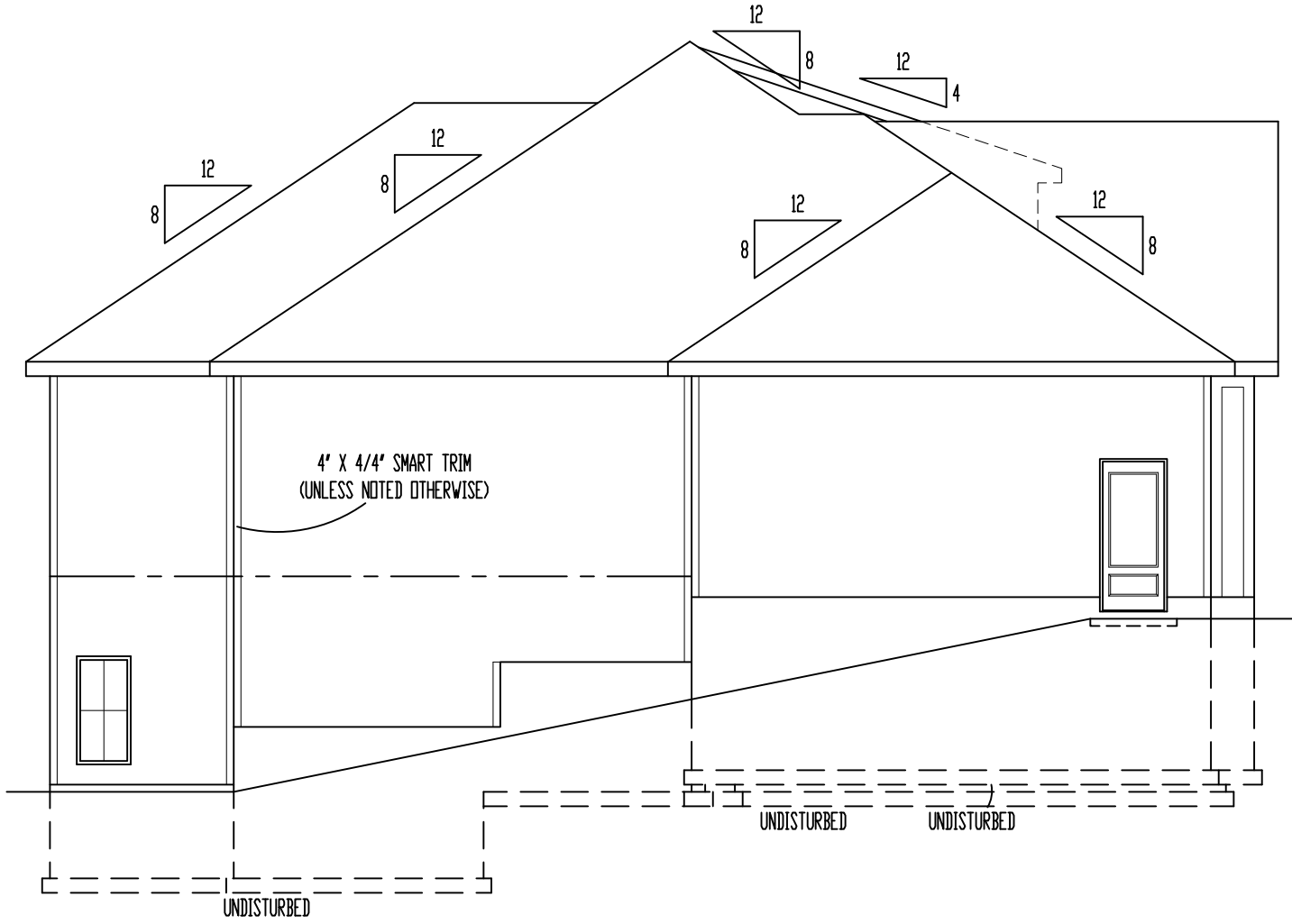
FRONT ELEVATION
SCALE: 1/4" = 1'-0"



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



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



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

- ELEVATIONS:
- SMART-PANEL SIDING ON SIDES AND REAR ELEVATIONS
 - COMPOSITION ROOF SHINGLES
 - LOCATE ROOF AND SOFFIT VENTS PER CODE
 - ADJUST FOUNDATION TO GRADE
- DECK:
- DECK CONSTRUCTION TO COMPLY WITH MUNICIPALITY'S
 - RESIDENTIAL DECK STANDARDS
 - 2" X 10" @ 16" O.C. FLOOR JOISTS MAX SPAN 14'-0"
 - 2" X 6" CEDAR DECKING
 - 6" X 6" CEDAR POSTS
 - 2" X 2" CEDAR SPINDLES
 - 2" X 6" CEDAR TOP RAIL
 - DETERMINE OPTIONAL STAIRS ON SITE

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"For God so loved the world, that he gave his only begotten Son, that whosoever believeth in him should not perish, but have everlasting life." (John 3:16).

VIEWPOINT
RESIDENTIAL DESIGN, LLC

MKT: (816) 547-4437
jpfifer@viewpointdesign.net

Bellah
HOMES

Site Description:
Lot 28, Woodland Oaks
Street Address:
**1817 NE Lashbrook Cir.,
Lee's Summit, Missouri**

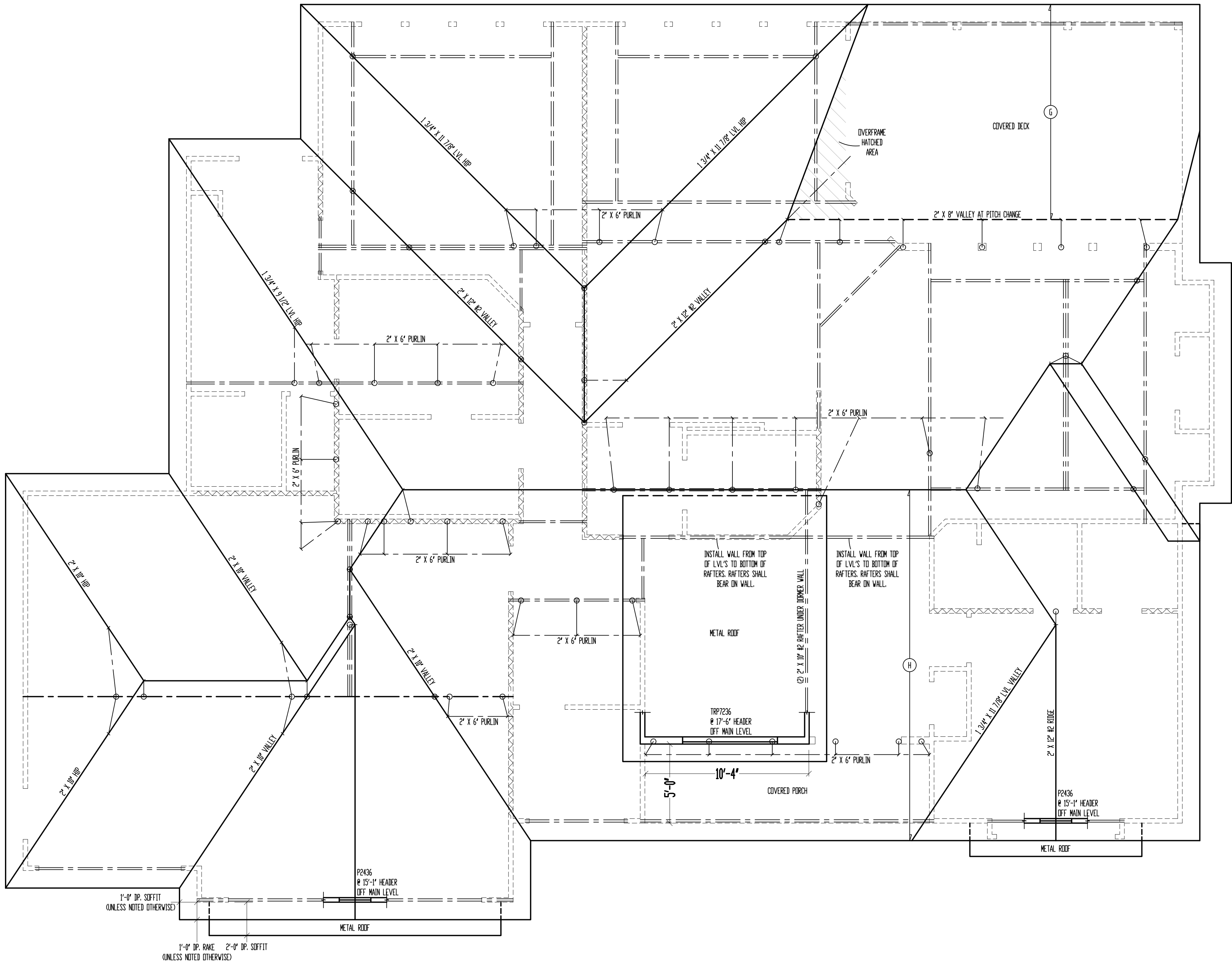
Drawing Title:
**The
OAKBROOK 2**

STATE OF MISSOURI
DENNIS REBER
NUMBER
PE-2010001772
1-8-2025
PROFESSIONAL ENGINEER

Date: 1-8-AD 2025
Rev. 1:
Rev. 2:
Rev. 3:

Sheet Title:
ELEVATIONS

Sheet No.:
A-1 of 4



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

RAFTER SCHEDULE	
G	2" X 6" R2 RAFTERS # 16' D.C.
H	2" X 10" R2 RAFTERS # 16' D.C.

WALL RAFTERS SHALL BE 2" X 6" R2 # 16' D.C., UNLESS NOTED OTHERWISE.
SEE DETAIL 7/532 FOR ALTERNATE RAFTER BEARING DETAIL. WHEN RAFTERS ARE REQUIRED TO BEAR HIGHER THAN THE WALL DOUBLE TOP PLATE.

FLASHING NOTE:
DRIP EDGE, VALLEYS AND FLASHINGS TO BE METAL CLAD.

ROOF NOTES:
ROOF DESIGNED FOR LIGHT ROOF COVERING.
30psf TOTAL LOAD (10psf DL, 20psf LL CL1)

* RAFTERS CEM+FR, DOUG-FIR, OR EQUAL.*
SEE SPAN CHARTS BELOW

CODE	MINIMUM	
RAFTERS	SPACING	MAX. HORIZONTAL CLEARSPAN
R2-2x6	R2x4 D.C.	11'-7"
R2-2x6	R1x5 D.C.	14'-2"
R2-2x8	R2x4 D.C.	14'-9"
R2-2x8	R1x5 D.C.	17'-11"
R2-2x10	R2x4 D.C.	17'-10"
R2-2x10	R1x5 D.C.	21'-11"

NOTE: CODE MINIMUM ALLOWS FOR A RAFTER DEFLECTION OF L/180 TOTAL LOAD

HIGHER PERFORMANCE (RECOMMENDED)		
RAFTERS	SPACING	MAX HORIZONTAL CLEARSPAN
#2-2x6	@24" O.C.	8'-6"
#2-2x6	@16" O.C.	9'-9"
#2-2x8	@24" O.C.	11'-3"
#2-2x8	@16" O.C.	12'-9"
#2-2x10	@24" O.C.	14'-3"
#2-2x10	@16" O.C.	16'-3"
DEFLECTION = L/360 LIVE LOAD, L/240 TOTAL LOAD		

DEFLECTION = L/360 LIVE LOAD, L/240 TOTAL LOAD

- * VALUITS TO BE 2x10 DEPTH
- * RIDGE BEARDS ARE (UNLESS OTHERWISE NOTED)
 - R2- 2x8 UP TO 10/12 PITCH
 - R2- 2x10 OVER 10/12 PITCH
- * ALL HIPS & VALLEYS ARE (UNLESS OTHERWISE NOTED)
 - R2- 2x8 UP TO 10/12 PITCH
 - R2- 2x10 OVER 10/12 PITCH
- * PURLINS ARE 2x6 MIN.
 - PURLIN STRUTS ARE AT 4'-0" O.C.
 - PURLIN STRUTS SHALL BE INSTALLED AT NOT LESS THAN A 45 DEGREE ANGLE WITH THE HORIZONTAL
 - ALL PURLIN STRUTS SHALL HAVE A MAXIMUM UNBRACED LENGTH OF 8'-0"
 - PURLIN STRUTS SHALL BE CONSTRUCTED IN A "I" CONFIGURATION AND PER THE FOLLOWING CHART:

PURLIN STRUT	MAX PURLIN STRUT LENGTH
(2) 2x4	8'-0"
(1) 2x4 & (1) 2x6	12'-0"
(1) 2x6 & (1) 2x8	20'-0"
(2) 2x6 & (1) 2x8	30'-0"
(1) 2x8 & (1) 2x10	30'-0"

- * RIDGE BRACES ARE SAME AS PURLIN BRACES- SPACING, SIZE, CONFIGURATION, & INSTALLATION (SEE PURLIN BRACE NOTES ABOVE)
- * HIP & VALLEY BRACES ARE SAME AS PURLIN SIZE, CONFIGURATION, & INSTALLATION (SEE PURLIN BRACE NOTES ABOVE)

- * VERTICAL BRACE IF DOT IS UNDER HIP OR VALLEY
- * SLASH IS TOP END OF BRACE (/), DOT IS BOTTOM OF BRACE (o)
- * --- DENOTES BEARING WALL
- * --- DENOTES ROOF BRACE
- * --- DENOTES PURLIN
- * --- DENOTES BEARING STRUCTURE

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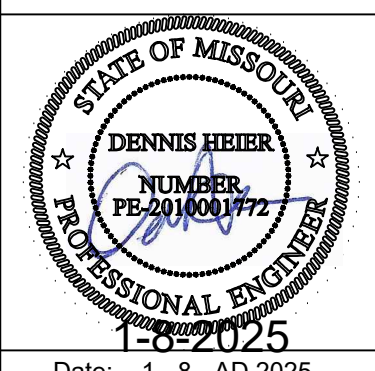
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Site Description:
Lot 28, Woodland Oaks
Street Address:
**1817 NE Lashbrook Cir.,
Lee's Summit, Missouri**

Drawing Title:
**The
OAKBROOK 2**

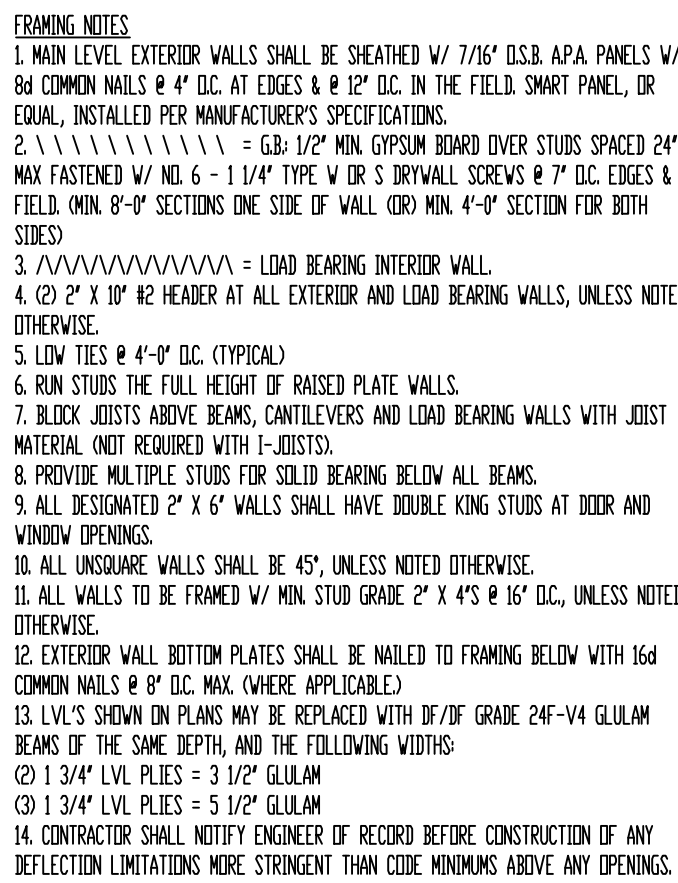


Date: 1-8-AD 2025
Rev. 1:
Rev. 2:
Rev. 3:

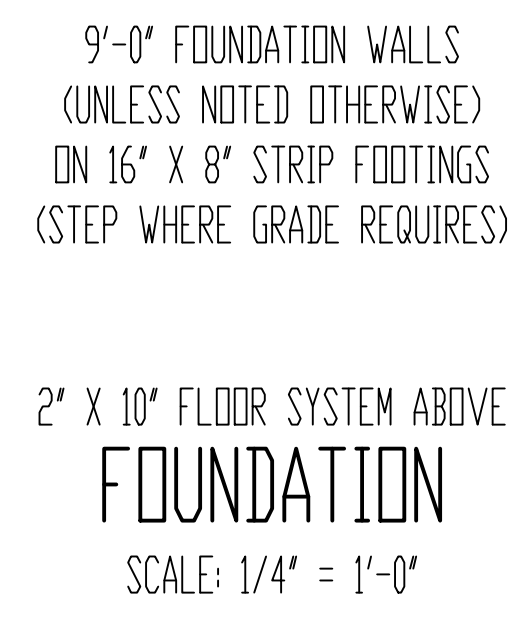
Sheet Title:
ROOF PLAN

Sheet No.:





A-3
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***** WALL BRACING PER FRAMING NOTE #1 AND
PER CALCULATIONS ON SHEET S11.

FRAMING NOTES:

1. BASEMENT LEVEL EXTERIOR WOOD-FRAMED WALLS SHALL BE SHEATHED W/ 7/16" DISC APA PANELS W/ 8" COMMON NAILS @ 8" OC. AT EDGES & 12" OC IN THE FIELD. 2" X 4" STUDS @ 16" OC, INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

2. 1' / 1' 1" / 1' 1" = 6B-1/2" MIN. GYPSUM BOARD OVER STUDS SPACING 24" MAX FASTENED W/ 6" - 1 1/4" TYPE S OR S DRILLWALL SCREWS @ 7" OC EDGES & FIELD OVER 4" OC SECTIONS ONE SIDE OF WALL. (MIN 4" OF SECTION FOR BOTH SIDES)

3. 1' / 1' 1" / 1' 1" = 6B-1/2" MIN. GYPSUM BOARD OVER STUDS SPACING 24" MAX FASTENED W/ 6" - 1 1/4" TYPE S OR S DRILLWALL SCREWS @ 7" OC EDGES & FIELD OVER 4" OC SECTIONS ONE SIDE OF WALL. (MIN 4" OF SECTION FOR BOTH SIDES)

4. 2" X 4" @ 16" OC JOISTER AT ALL EXTERIOR AND LOAD BEARING WALLS.

5. 4" X 6" @ 16" OC JOISTER AT ALL EXTERIOR AND LOAD BEARING WALLS, UNLESS NOTED OTHERWISE.

6. 1/2" LIES & 4" D (TYPICAL)

7. RUN STUDS THE FULL HEIGHT OF BASED PLATE WALLS.

8. BLOCK, JOIST, BAY, BEAMS, CANTILEVERS, AND LOAD BEARING WALLS SHALL BE 12" MIN. INTERIOR SQUARE WITH 1-JOIST.

9. PROVIDE MULTIPLE STUDS FOR SILD BEARING LOADS ALL BEAMS.

10. ALL DESIGNATED 2" X 4" WALLS SHALL HAVE DOUBLE JOIST STUDS AT DECK AND WINDOW OPENINGS.

11. ALL UNSQUARE WALLS SHALL BE 4" X 6" MIN.

12. ALL WALLS TO BE FRAMED W/ MIN STUD SPACING 2' X 4'S @ 16" OC, UNLESS NOTED OTHERWISE.

13. 1/2" @ 16" OC ANCHOR BOLTS 1' MIN. W/ ENHANCEMENT 8" X 4'S MIN. & WITHIN 6" - 12" OF END OF EACH PLATE LENGTH.

14. 1/2" LVL'S SHOWN ON PLANS MAY BE REPLACED WITH D/F/6" GRAM 24F-V4 GLULAM BEAMS OF THE SAME RPT, AND THE FOLLOWING VOLUMES:

15. 2" 1/4" LVL PILES - 3 1/2" D/6" GLULAM

16. 2" 1/4" LVL PILES - 5 1/2" D/6" GLULAM

17. NEW FOUNDATION SHALL BE BUILT ON ORIGINAL SLOPE, WITH MINIMUM BEARING CAPACITY OF 1500 PSF. A GEOTECHNICAL ENGINEER IS RECOMMENDED FOR VERIFICATION OF THESE CONDITIONS DURING THE EXCAVATION PHASE.

18. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR CONSTRUCTION NOT VERIFIED TO BE FOUND ON ANYTHING SHORT OF THE ABOVEMENTIONED.

19. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD BEFORE CONSTRUCTION OF ANY DEFLECTION LIMITATIONS MORE STRINGENT THAN CODE MINIMUMS ABOVE ANY OPENINGS.

STEEEL COLUMN & PAD FOOTING SCHEDULE		PIER FOOTING SCHEDULE	
	3" SCH. 40 STEEL COLUMN (IN) 3" X 3" X 10' PAD FOOTING W/ (C) 84 BARS EACH WAY (22350)		12" Ø PIER FTG.
	3" SCH. 40 STEEL COLUMN (IN) 3" X 3" X 10' PAD FOOTING W/ (C) 84 BARS EACH WAY (18100)		16" Ø PIER FTG.
	3" SCH. 40 STEEL COLUMN (IN) 4" X 4" X 12' PAD FOOTING W/ (C) 84 BARS EACH WAY (24350)		18" Ø PIER FTG.
	3 1/2" SCH. 40 STEEL COLUMN (IN) 3" X 4" X 12' PAD FOOTING W/ (C) 84 BARS EACH WAY (22800)		24" Ø PIER FTG.
	3 1/2" SCH. 40 STEEL COLUMN (IN) 4" X 5" X 14' PAD FOOTING W/ (C) 84 BARS EACH WAY (40550)		30" Ø PIER FTG.
	3 1/2" SCH. 40 STEEL COLUMN (IN) 6" X 6" X 14' PAD FOOTING W/ (C) 84 BARS EACH WAY (50500)		
		JOIST SCHEDULE	
			2" X 10" RF 12' TIDR. JOIST Ø 16" D.C.
			2" X 10" RF FLOOR JOIST Ø 16" D.C.
			2" X 10" RF 12' FLOOR JOIST Ø 16" D.C. = DOUBLE EVERY OTHER
			2" X 10" RF 12' FLOOR JOIST Ø 16" D.C. = DOUBLED

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DETERMINE WEIGHT OF HOUSE:				INPUT	CALCULATED VALUE
LOCATION		DEAD LOAD (psf)	AREA (ft ²)		WEIGHT (lbs.)
ROOF		10	3532		35320
CEILING		10	3532		35320
FIRST FLOOR		10	3532		35320
FIRST FLOOR EXT. WALL DL	262	WALL LENGTH (ft)	WALL HEIGHT (ft)	WALL UNIT WT. (psf)	WEIGHT (lbs)
		10	10		26200
FIRST FLOOR INT. PARTITION WALL DL		DEAD LOAD (psf)	AREA (ft ²)		WEIGHT (lbs)
		6	3532		21192

a) If there is a walkout wall to be sheathed, determine tributary wind area and enter here. If no walkout, enter 0 for area.

83740
83740
12.0%
1.6
0.128
6.5

Sheathing Location	Min. Sheathing Schedule	Fastening Schedule	Allowable Shear (#/LF)	Code Reference
Exterior (Option #1)	7/8" APA Rated Plywood/OSB	1-1/2" 16ga. Staples w/ 1" penetration @ 8" O.C. Edges, 6" O.C. Field For 24" stud spacing, 12" O.C. Field For 16" stud spacing	155	per IBC, Table 2306.3(1)
Exterior (Option #2)	7/8" APA Rated Plywood/OSB	1-1/2" 16ga. Staples w/ 1" penetration @ 8" O.C. Edges, 6" O.C. Field For 24" stud spacing, 12" O.C. Field For 16" stud spacing	230	per IBC, Table 2306.3(1)
Exterior (Option #3)	7/8" APA Rated Plywood/OSB	1-1/2" 16ga. Staples w/ 1" penetration @ 8" O.C. Edges, 6" O.C. Field For 24" stud spacing, 12" O.C. Field For 16" stud spacing	310	per IBC, Table 2306.3(1)
Exterior (Option #4)	7/16" APA Rated Plywood/OSB or shiplap panel sheathing, or 3/8" shiplap panel sheathing with tighter nail spacing	8d Common Nails w/ 1-3/8" penetration @ 6" O.C. Edges, 12" O.C. Field for 7/16" APA-rated plywood/OSB or shiplap panel sheathing OR @ 4" O.C. Edges, 12" O.C. Field for 3/8" shiplap panel sheathing	220	AWC SDPWs Table 4.3A
Exterior (Option #5)	7/16" APA Rated Plywood/OSB or shiplap panel sheathing, or 3/8" shiplap panel sheathing with tighter nail spacing	8d Common Nails w/ 1-3/8" penetration @ 4" O.C. Edges, 12" O.C. Field for 7/16" APA-rated plywood/OSB or shiplap panel sheathing OR @ 3" O.C. Edges, 12" O.C. Field for 3/8" shiplap panel sheathing	320	AWC SDPWs Table 4.3A
Exterior (Option #6)	7/16" APA Rated Plywood/OSB or shiplap panel sheathing, or 3/8" shiplap panel sheathing with tighter nail spacing and double studs at each panel edge	8d Common Nails w/ 1-3/8" penetration @ 3" O.C. Edges, 12" O.C. Field	410	AWC SDPWs Table 4.3A
Interior	1/2" Gypsum Board	No. 6- 1 1/4" Type W or S Screws @ 8" O.C. Edges, 12" O.C. Field	60	per IBC, Table 2306.4.4
Interior	16 Ga. Simpson/USP Type WB Steel X-Brace (or equal)	(3) 16d @ end studs & (1) 8d @ intermediate studs (per manufacture specifications - see detail on sheet S3)	325	

EXTERIOR STRUCTURAL WALL LENGTHS (ft.) & RESISTANCES								
	SEISMIC				WIND			
	FRONT-TO-BACK	RESISTANCE (lbs.)	SIDE-TO-SIDE	RESISTANCE (lbs.)	FRONT-TO-BACK	RESISTANCE (lbs.)	SIDE-TO-SIDE	RESISTANCE (lbs.)
1ST FLOOR	90	34200	29	11020	90	47880	29	15428
BASEMENT	0	0	25	7000	0	0	25	9800

RESISTANCE REQUIRED IN ADDITION TO RESISTANCE PROVIDED BY EXTERIOR WALLS**							
	ADDITIONAL RESISTANCE REQUIRED (POUNDS)	PORTAL FRAMES OR PERF. SHEAR WALL RESISTANCE	INTERIOR X-BRACES (325#/BRACE)	INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.)	INT. WALL LENGTH SHEATHED W/ OSB (TOTAL LENGTH, ONE SIDE, FT.)	RESISTANCE PROVIDED BY ADDITIONAL METHODS (POUNDS)	OK?
1ST FLOOR FRONT-TO-BACK	0					0	YES
1ST FLOOR SIDE-TO-SIDE	0					0	YES
BASEMENT FRONT-TO-BACK	0					0	YES
BASEMENT SIDE-TO-SIDE	0					0	YES

WIND UPLIFT ANALYSIS							
X/12		DEGREES					
ROOF PITCH (MAX)	12	45.0	PITCH OF 6 OR LESS: EOH -13.3, E -7.2, G -6.2				
LENGTH (FT.)		PRESSURE (PSF)	LINEAL FT. OF OH	UPLIFT PER FT* (LBS)			
OVERHANG			-1.08	-1.08			
TOTAL AREA (FT²)		ZONE A AREA (FT²)	ZONE G AREA (FT²)	PRESSURE ZN. E (PSF)	PRESSURE ZN. G (PSF)	TOTAL FORCE (LBS)	FORCE PER LINEAL FT @ PERIMETER (LBS)
MAIN ROOF**		4193.6211	-451.327824	4644.948924	-1.08	-0.36	-1185
						-4.5	

*ALONG PERIMETER

**INSIDE EXTERIOR WALLS

TOTAL UPLIFT PER LINEAL FOOT ALONG EXTERIOR (POUNDS)

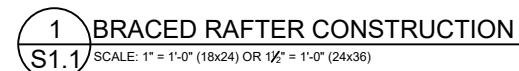
RESISTANCE DUE TO DEAD WEIGHT & (3) 16d TOENAILS

-5.6

251.6

UPLIFT OK

NOTE FOR DESIGN: ALL WALLS USED IN THE CALCULATION OF THE RESISTANCE FOR THIS STRUCTURE SHALL HAVE A MINIMUM UNINTERRUPTED HEIGHT OF 8'-0" AND LENGTH OF 2'-8". ALLOWABLE RESISTANCES HAVE BEEN #/FT AND INCREASED BY 40% FOR WALL LOADS, PER VALUES IN 2018 IBC SECTION 2306 AND AWC SDPWS TABLE 4.3A. FOR EXAMPLE, 7/16" APA-RATED SHEATHING WITH 8d @ 6" & 12" HAS A SEISMIC SHEAR VALUE OF 240 A WALL SHEAR VALUE OF 335#/FT - 40% GREATER THAN THAT OF SEISMIC)



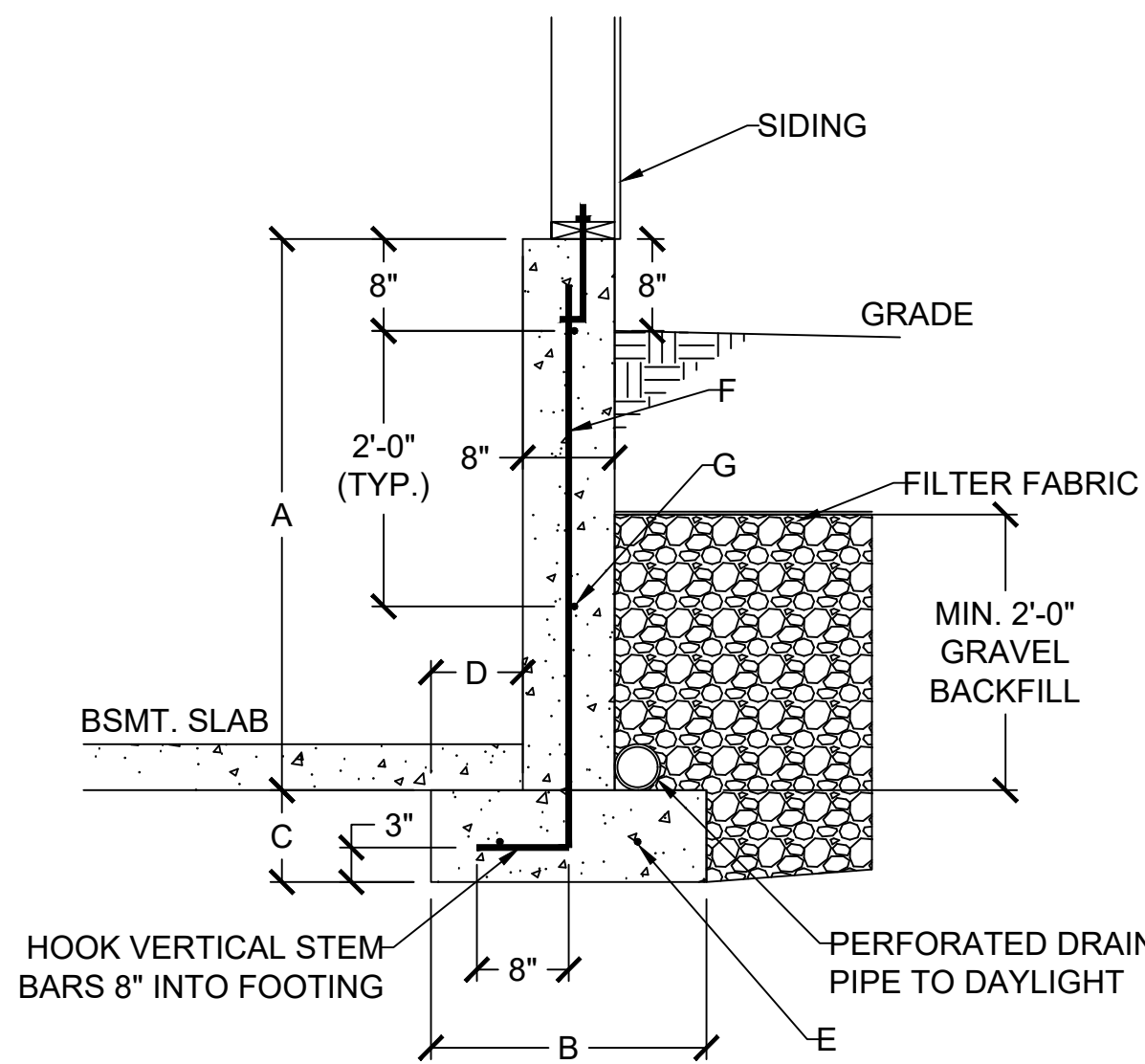
Area of Combined Space (floor where appliances are located)	1460 ft ²
Ceiling Height in Usable Space	8.5 ft

Is floor where appliances are located open to adjacent level?	Yes
If Yes, what is the area of open space adjacent to appliance area?	0

Area of Combined Space > Required combined area? OK

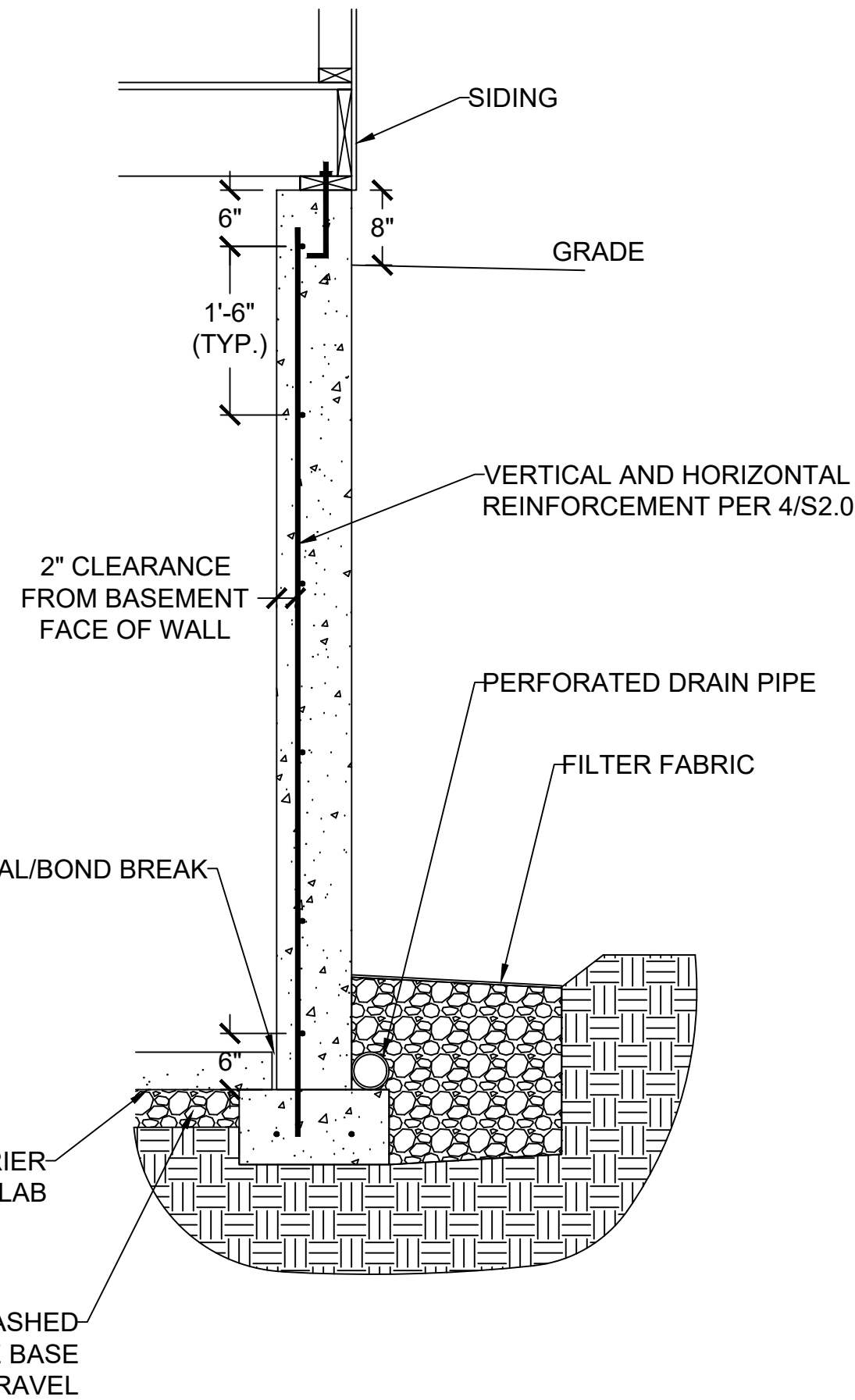
Minimum required opening area: 150 in²
 Minimum grill size: 14 x 11 (inches)
 Note: two grills required - one within 12" of floor, one within 12" of clg.

[illegible]

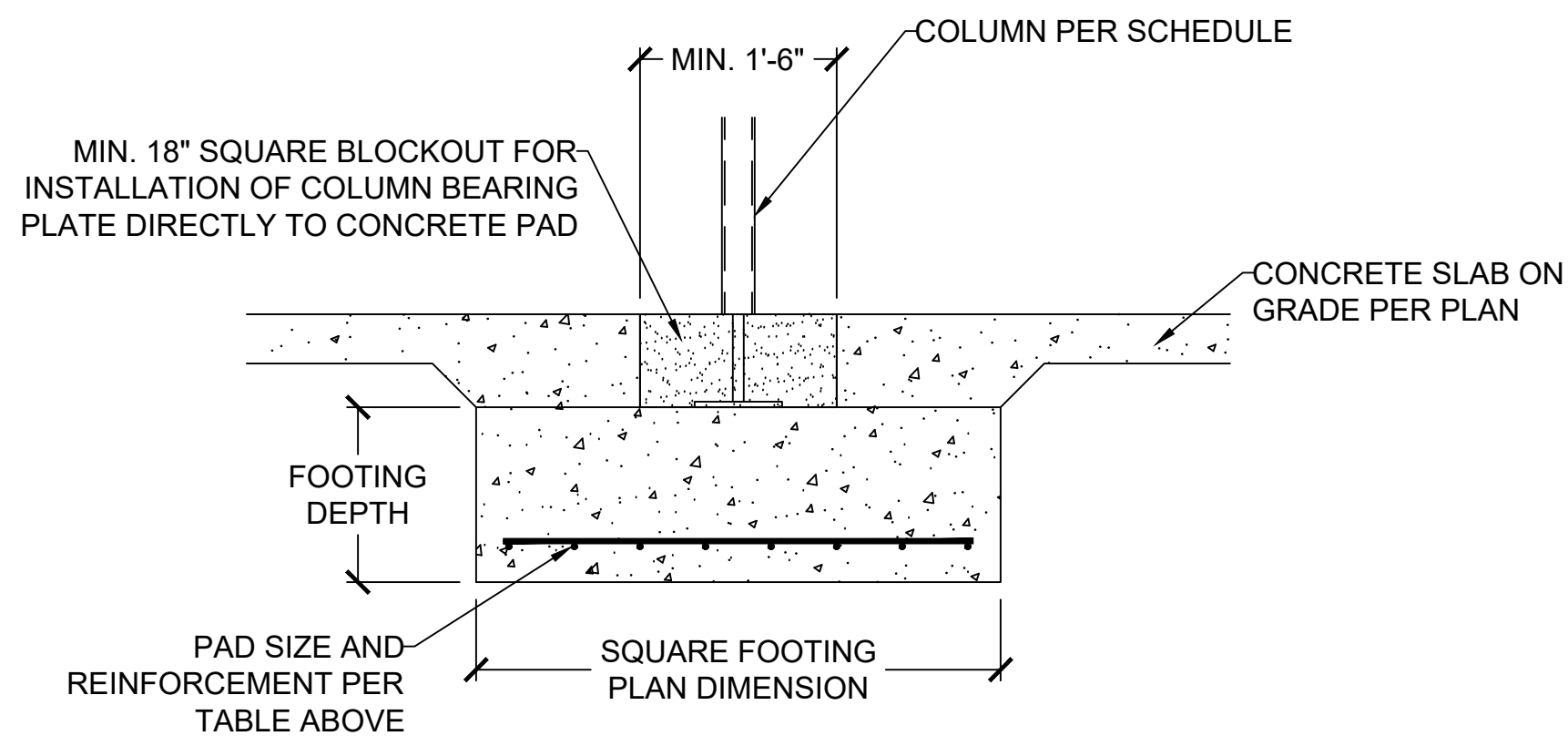


1 DAYLIGHT WALL CONSTRUCTION
S2.0 SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)

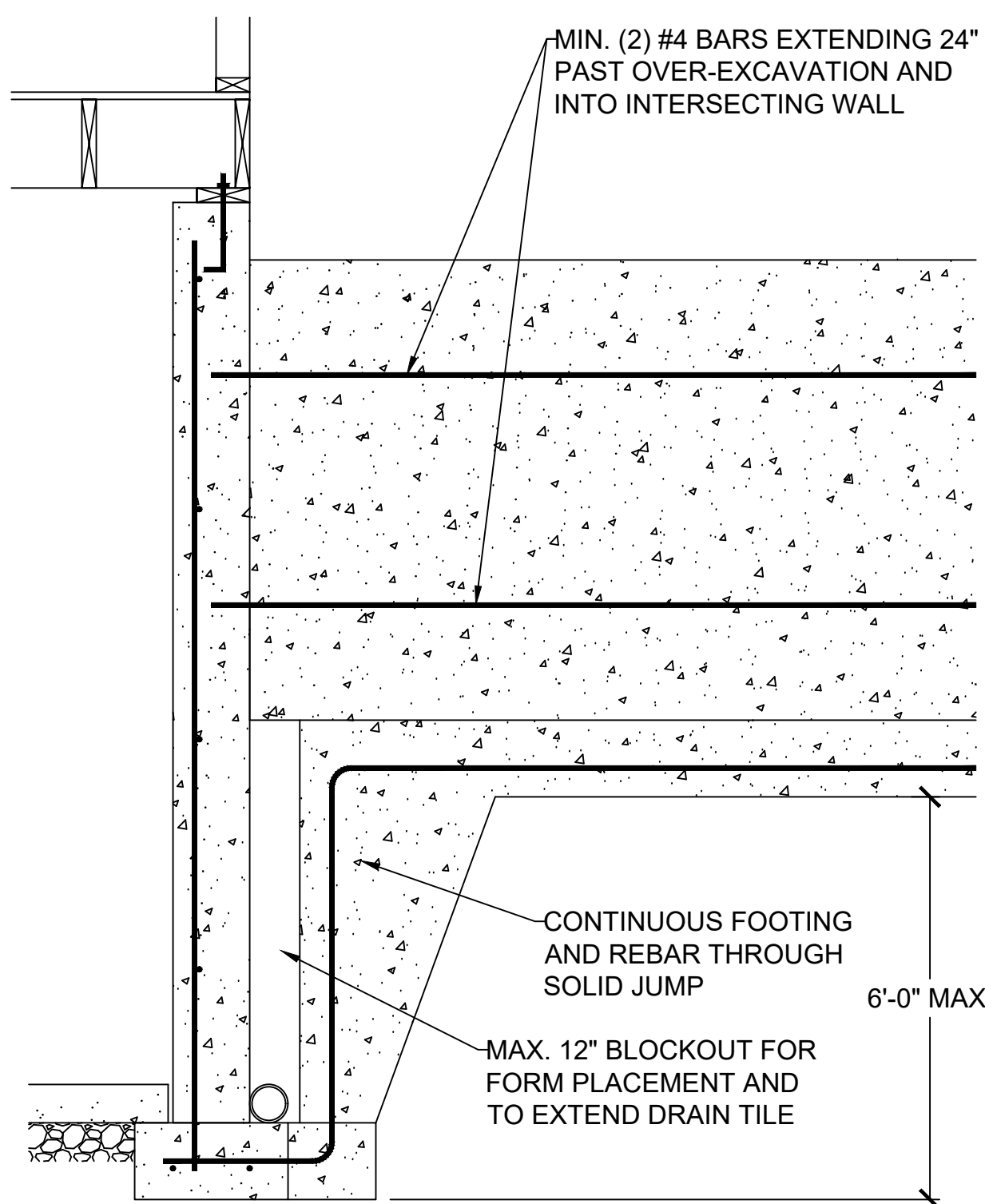
DAYLIGHT BASEMENT WALL SCHEDULE						
A	B	C	D	E	F	G
4'-0"	1'-6"	0'-8"	0'-5"	(2) #4	#4 VERT. @ 12" O.C.	(2) #4 HORIZ.
5'-0"	2'-0"	0'-8"	0'-7"	(2) #4	#4 VERT. @ 12" O.C.	(3) #4 HORIZ.
6'-0"	2'-6"	0'-8"	0'-10"	(3) #4	#4 VERT. @ 12" O.C.	(3) #4 HORIZ.
8'-0"	3'-1"	0'-10"	1'-5"	(4) #4	#4 VERT @ 6" O.C.	(4) #4 HORIZ.



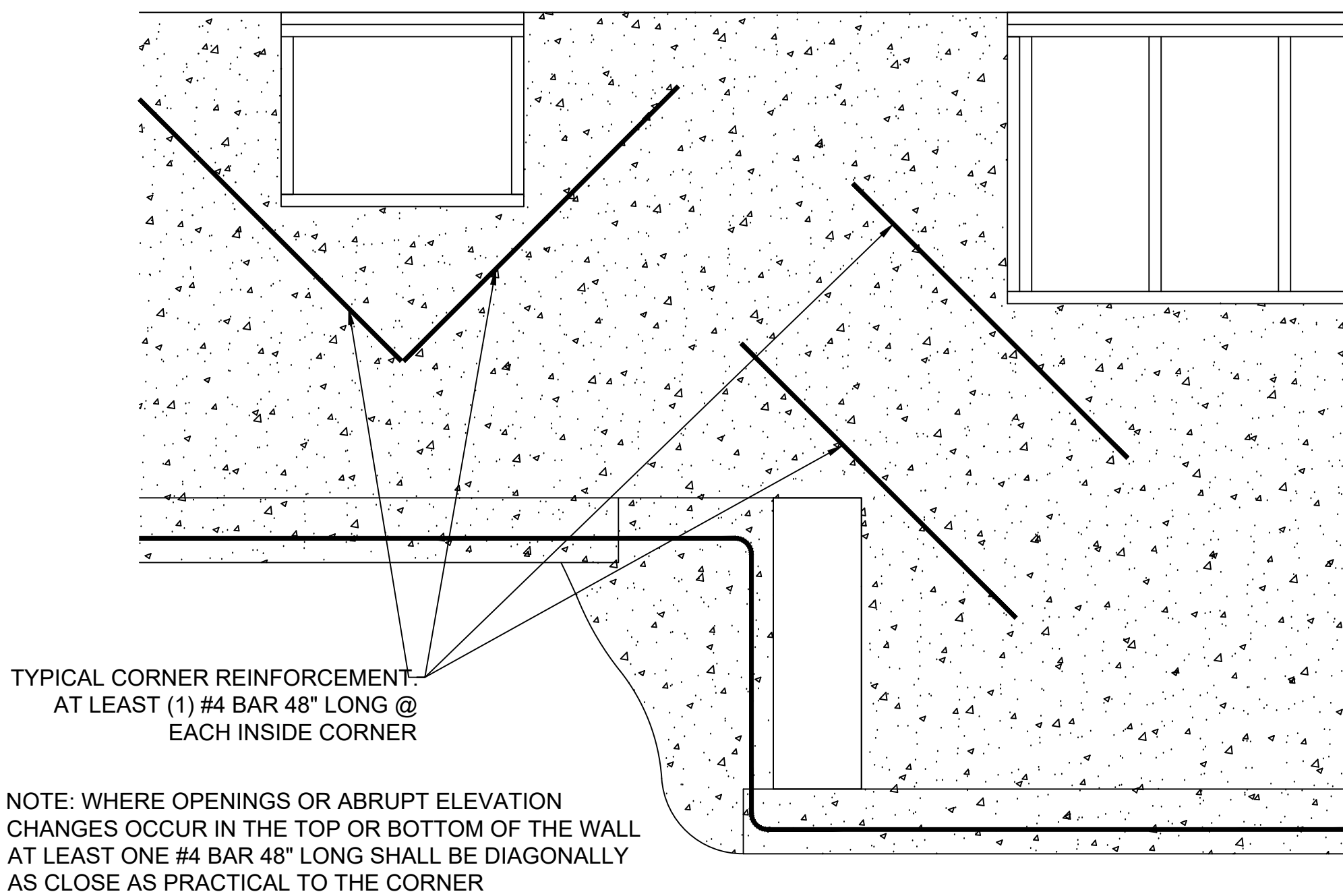
3 CONCRETE WALL SECTION
S2.0 SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)



2 COLUMN AND BEARING PAD SCHEDULE
S2.0 SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)

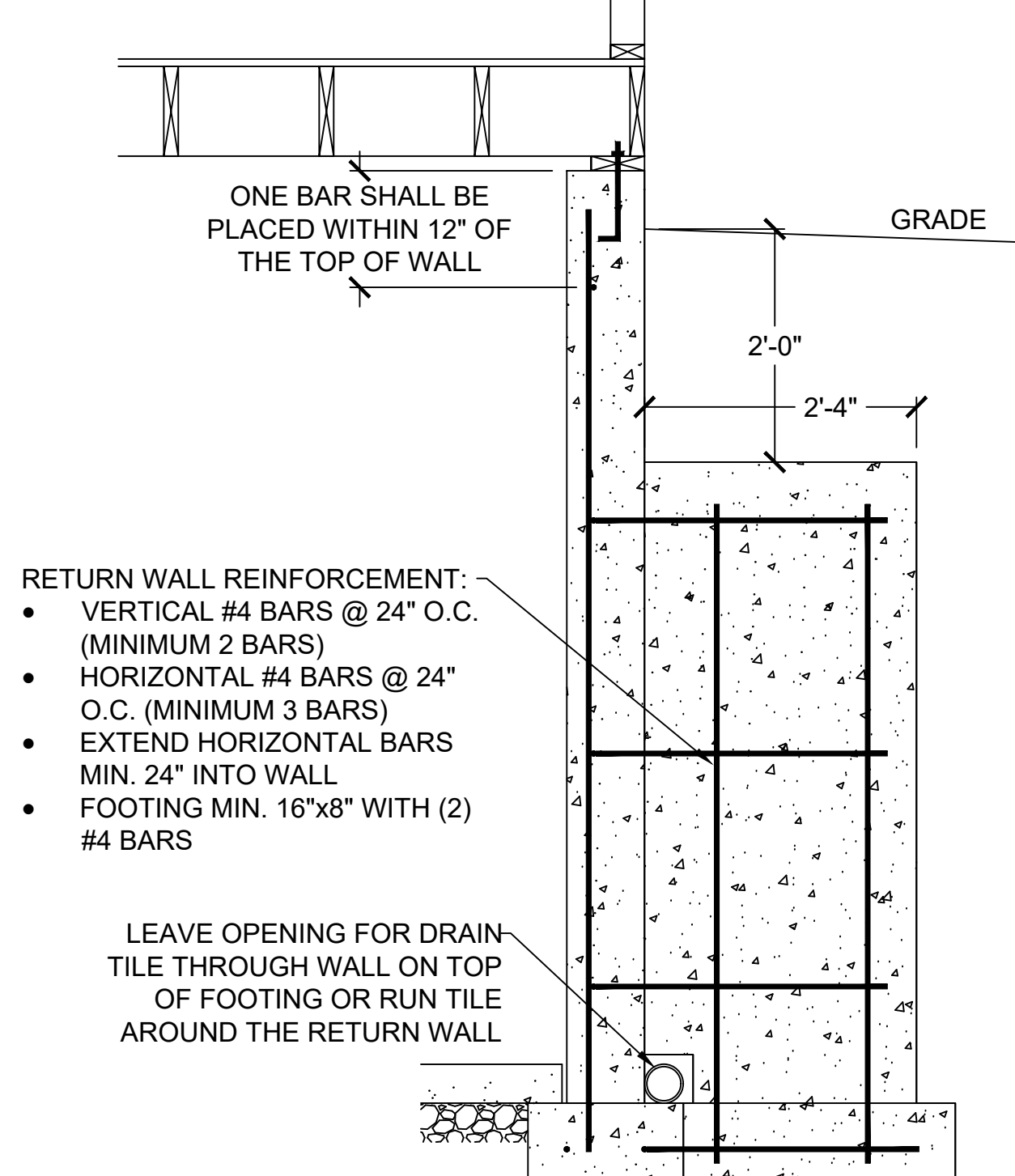


5 SOLID JUMP
S2.0 SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)



6 REINFORCEMENT AT OPENING CORNERS AND STEP CORNERS @ INSIDE CORNERS
S2.0 SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)

NOTE: WHERE FLOOR JOIST RUNS PARALLEL TO FDN WALL, SOLID BLOCK OUTSIDE 3 JOIST SPACES @ 36" OC ALIGNING BLOCKING WITH THE ANCHOR BOLT

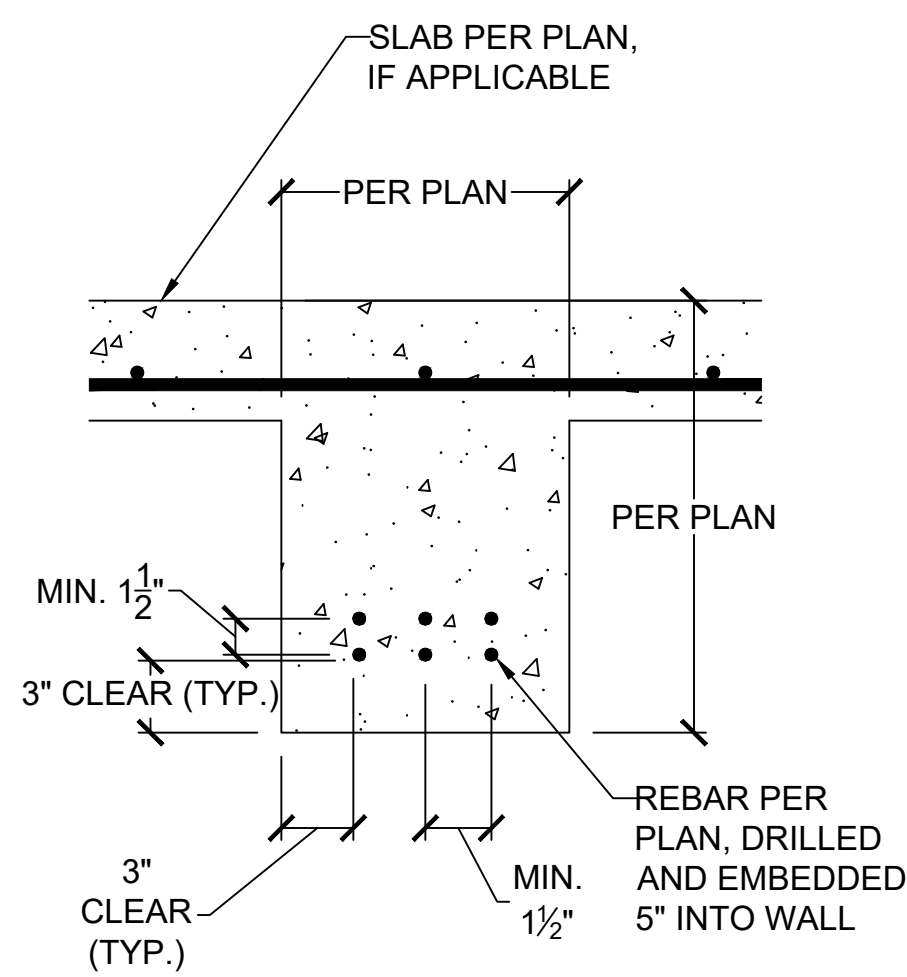


7 RETURN WALL DETAIL
S2.0 SCALE: 1/2" = 1'-0" (18x24) OR 3/4" = 1'-0" (24x36)

VERTICAL REINFORCEMENT SPACING						
CONCRETE STRENGTH/GRADE REINFORCEMENT (#4 BARS)	8" THICK WALL			10" THICK WALL		
	8'	9'	10'	8'	9'	10'
3,000 PSI/ GRADE 40	24	24	16	24	24	18
3,500 PSI/ GRADE 40	24	24	16	24	24	18
3,000 PSI/ GRADE 60	24	24	16	24	24	18
3,500 PSI/ GRADE 60	24	24	16	24	24	18
HORIZONTAL REINFORCEMENT - MINIMUM GRADE 40 STEEL						
ONE BAR 12" FROM TOP OF WALL; MAX. SPACING 24" OC	6-#4	7-#4	7-#4	6-#4	7-#4	7-#4

- FOOTNOTES:
- WALL HEIGHT IS MEASURED FROM THE TOP OF THE WALL TO THE TOP OF THE FLOOR SLAB
 - VERTICAL REINFORCEMENT FOR CONCRETE WALLS THAT ARE NOT FULL HEIGHT, AND FOR REINFORCEMENT SPACING 24" OC, REINFORCEMENT MAY BE PLACED IN THE MIDDLE OF THE WALL. OTHER WALLS SHALL HAVE VERTICAL REINFORCEMENT AS FOLLOWS:
 - 8" WALL - MINIMUM 5" FROM THE OUTSIDE FACE
 - 10" WALL - MINIMUM 6 1/4" FROM THE OUTSIDE FACE
 - EXTEND BARS TO WITHIN 8" OF THE TOP OF THE WALL
 - REINFORCEMENT CLEARANCES:
 - CONCRETE EXPOSED TO EARTH - MINIMUM 1 1/2"
 - NOT EXPOSED TO WEATHER (INTERIOR SIDE OF WALLS) - 3/4"
 - CONCRETE EXPOSED TO WEATHER (TOP CLEARANCE IN GARAGE AND DRIVEWAY SLABS) - 1 1/2"
 - HORIZONTAL REINFORCEMENT:
 - ONE BAR SHALL BE PLACED WITHIN 12" OF THE TOP OF THE WALL
 - OTHER BARS SHALL BE EQUALLY SPACED WITH SPACING NOT TO EXCEED 24" OC
 - HORIZONTAL BARS SHOULD BE AS CLOSE TO THE TENSION FACE AS POSSIBLE (INTERIOR) AND BEHIND THE VERTICAL REINFORCEMENT (I.E. 2" TOWARD THE INSIDE)
 - SUPPLEMENTAL REINFORCEMENT AT CORNERS - PLACE (1) #4 BAR 48" LONG AT 45 DEGREE ANGLE AT CORNERS OF OPENINGS. PLACE REINFORCEMENT WITHIN 6" OF THE EDGE OF INSIDE CORNERS.
 - REINFORCEMENT SHALL BE LAPPED A MINIMUM 24" AT ENDS, SPLICES, AND AROUND CORNERS.
 - AT MASONRY LEDGES THE MINIMUM WALL THICKNESS SHALL BE 3 1/2". LEDGES SHALL NOT EXCEED A DEPTH OF MORE THAN 24" BELOW THE TOP OF THE WALL. FOR WALL THICKNESSES LESS THAN 4" PROVIDE #4 BARS AT MAX. 24" OC TO WITHIN 8" OF THE TOP OF THE WALL.
 - STRAIGHT WALLS MORE THAN 5' TALL AND MORE THAN 16 FEET LONG SHALL BE PROVIDED WITH EXTERIOR BRACED RETURN WALLS. WALL LENGTH SHALL BE MEASURED USING INSIDE THE SHORTEST DIMENSION BETWEEN INTERSECTING WALLS
 - WALL SHALL NOT BE BACKFILLED UNTIL FLOOR SYSTEM AND DIAPHRAGM ARE IN PLACE

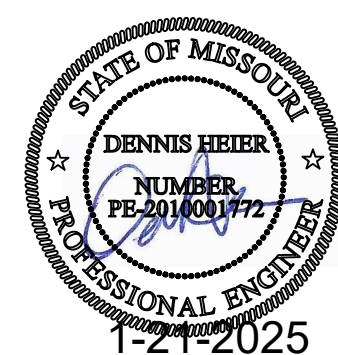
4 FOUNDATION WALL REINFORCEMENT TABLE
S2.0 NO SCALE



8 CONCRETE GRADE BEAM
S2.0 SCALE: 1" = 1'-0" (18x24) OR 1 1/2" = 1'-0" (24x36)



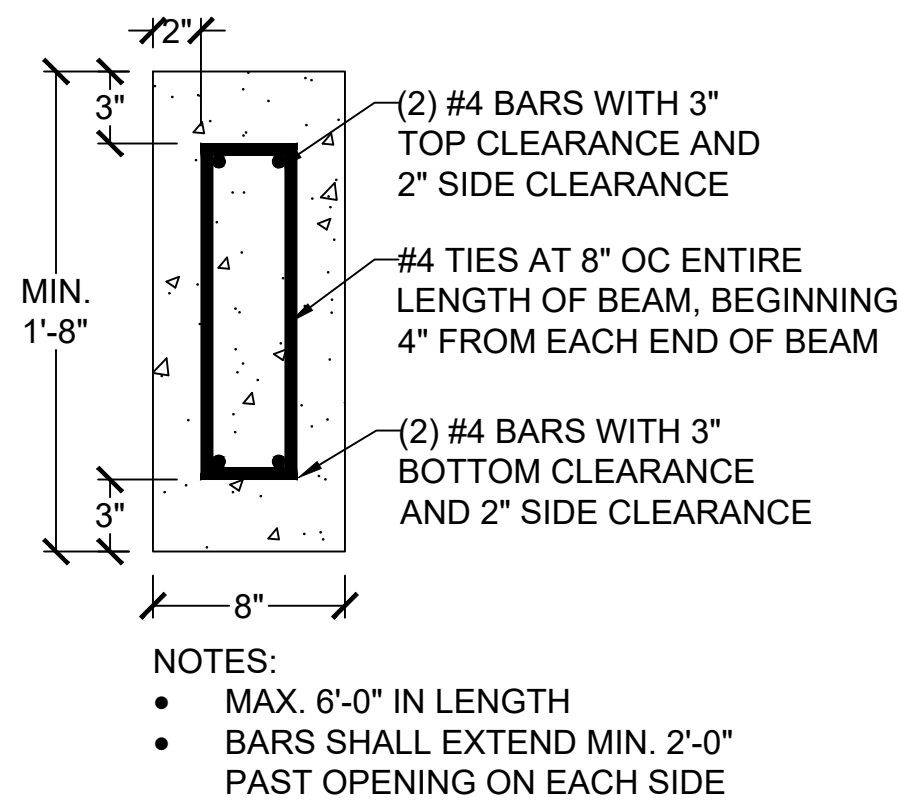
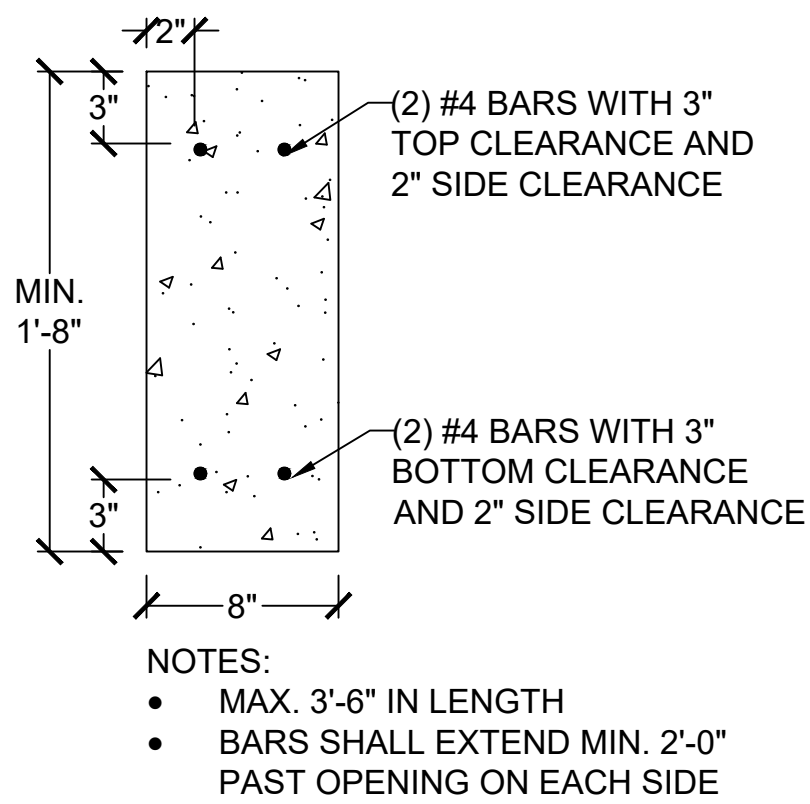
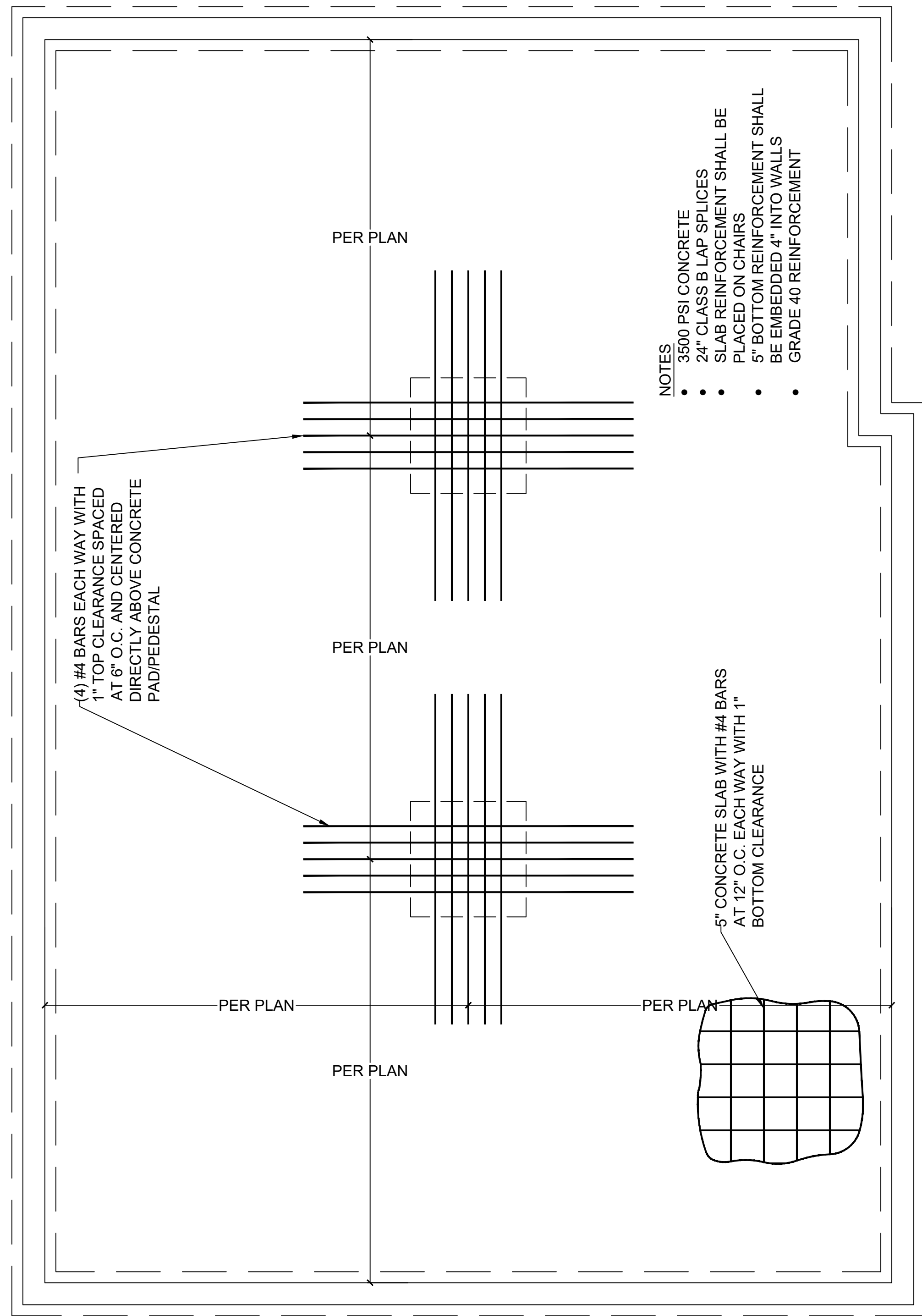
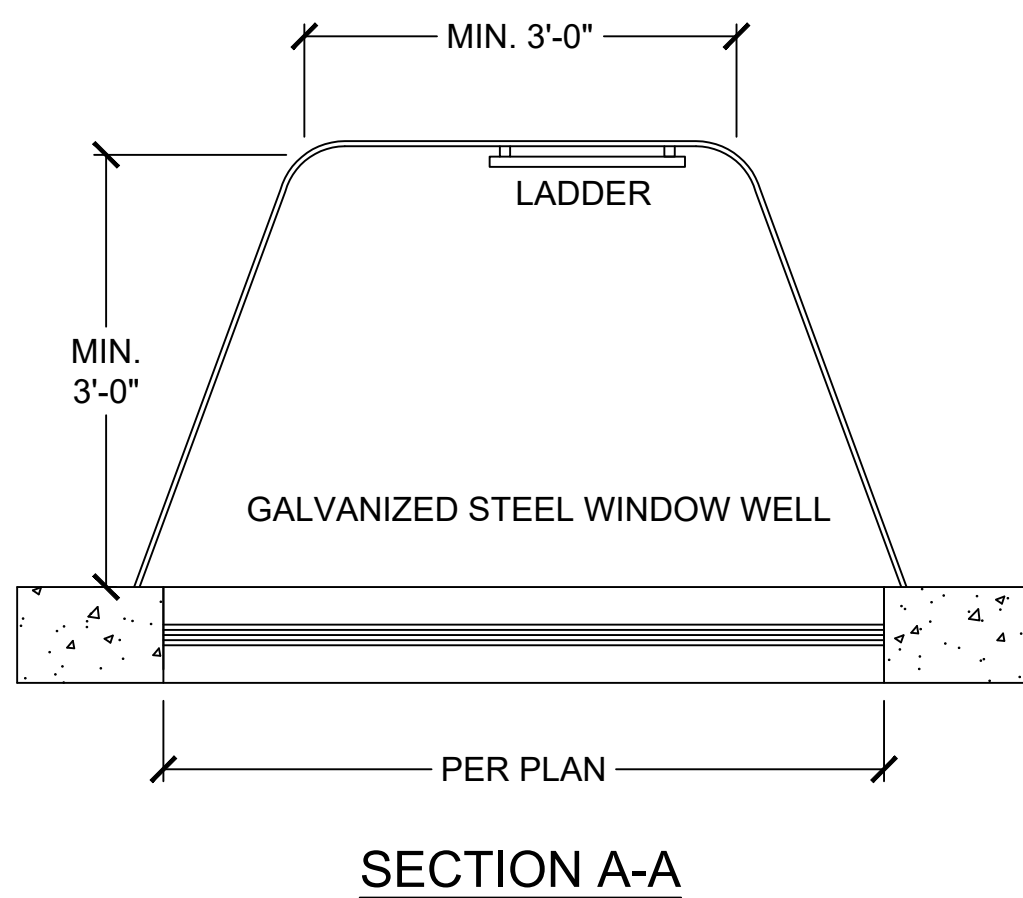
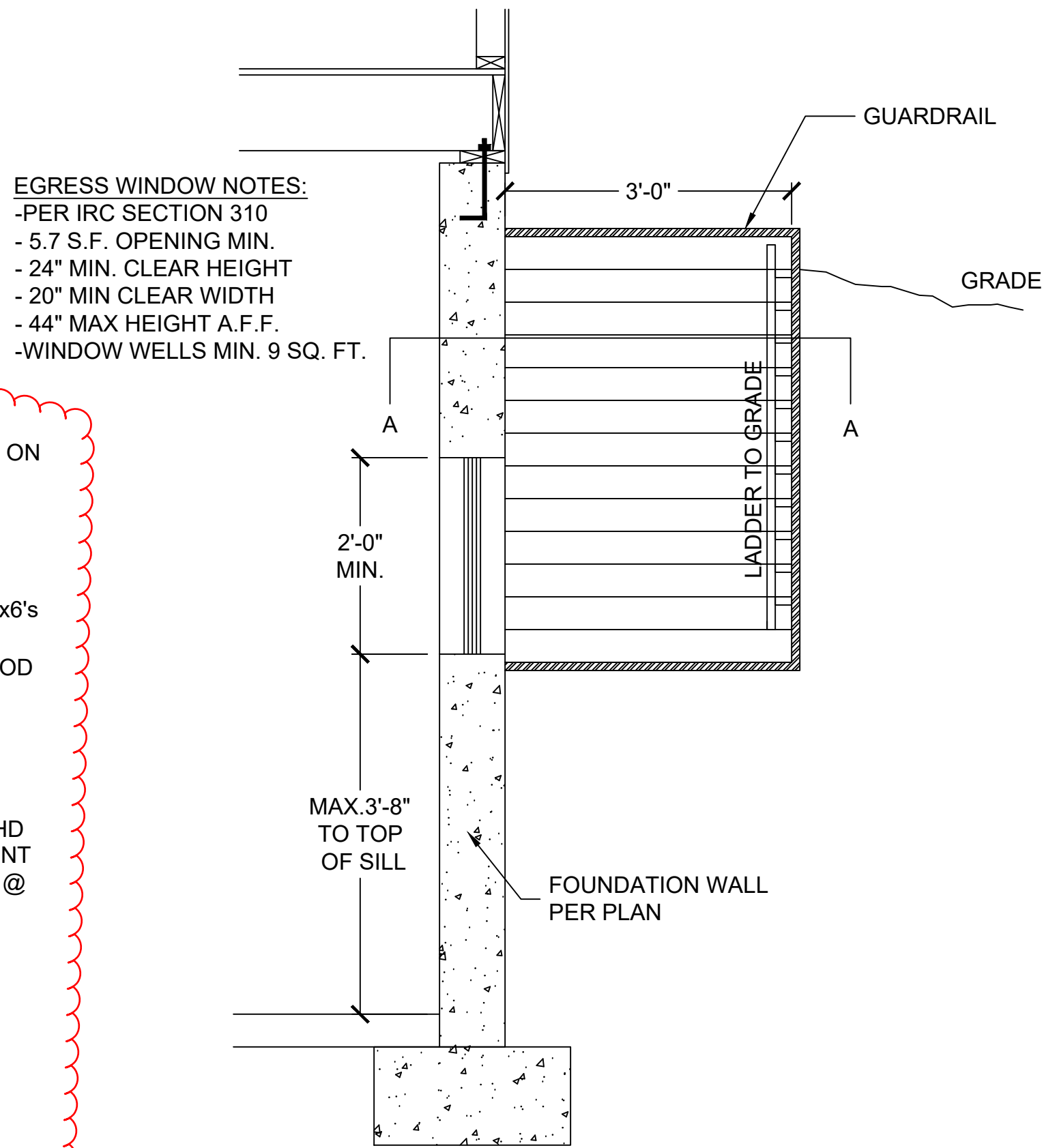
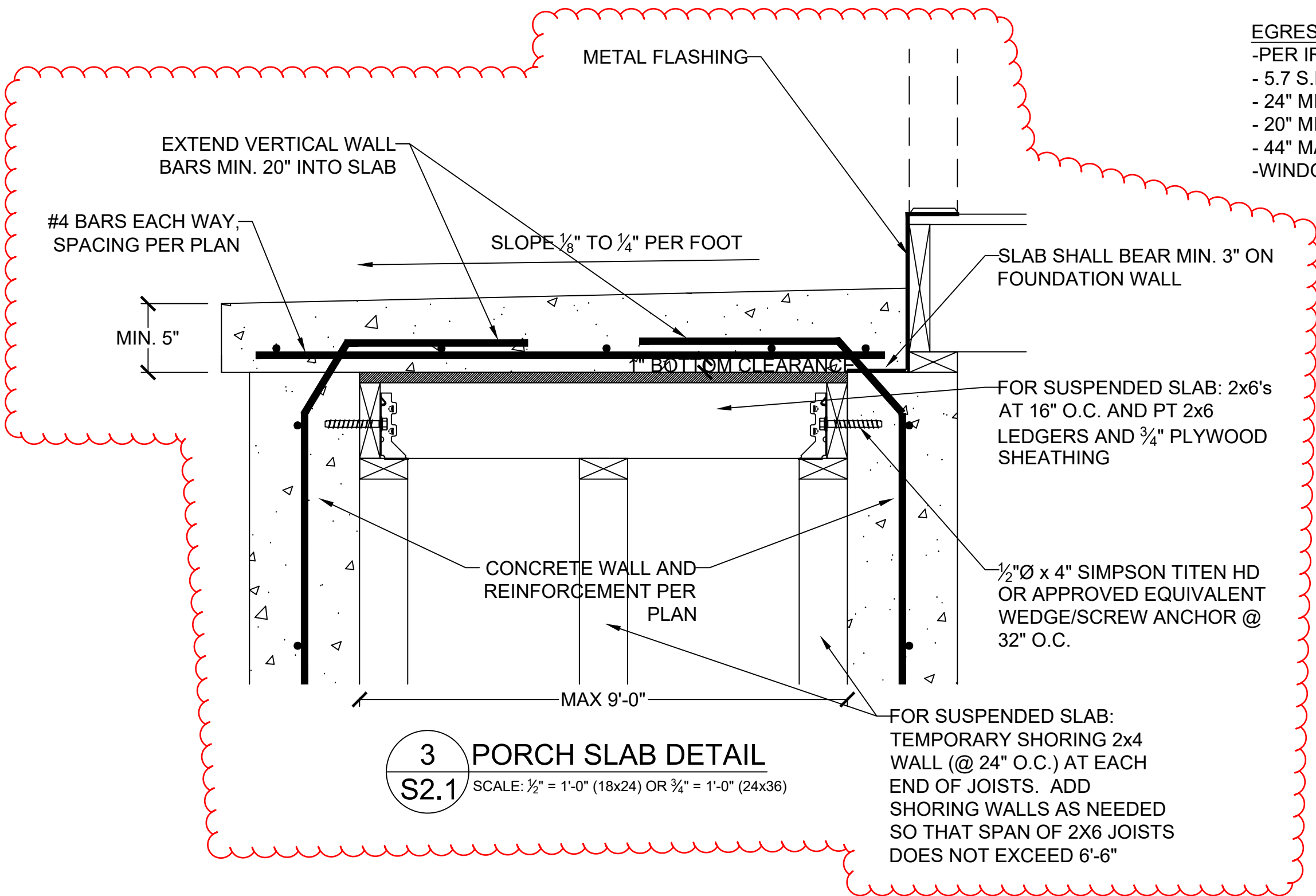
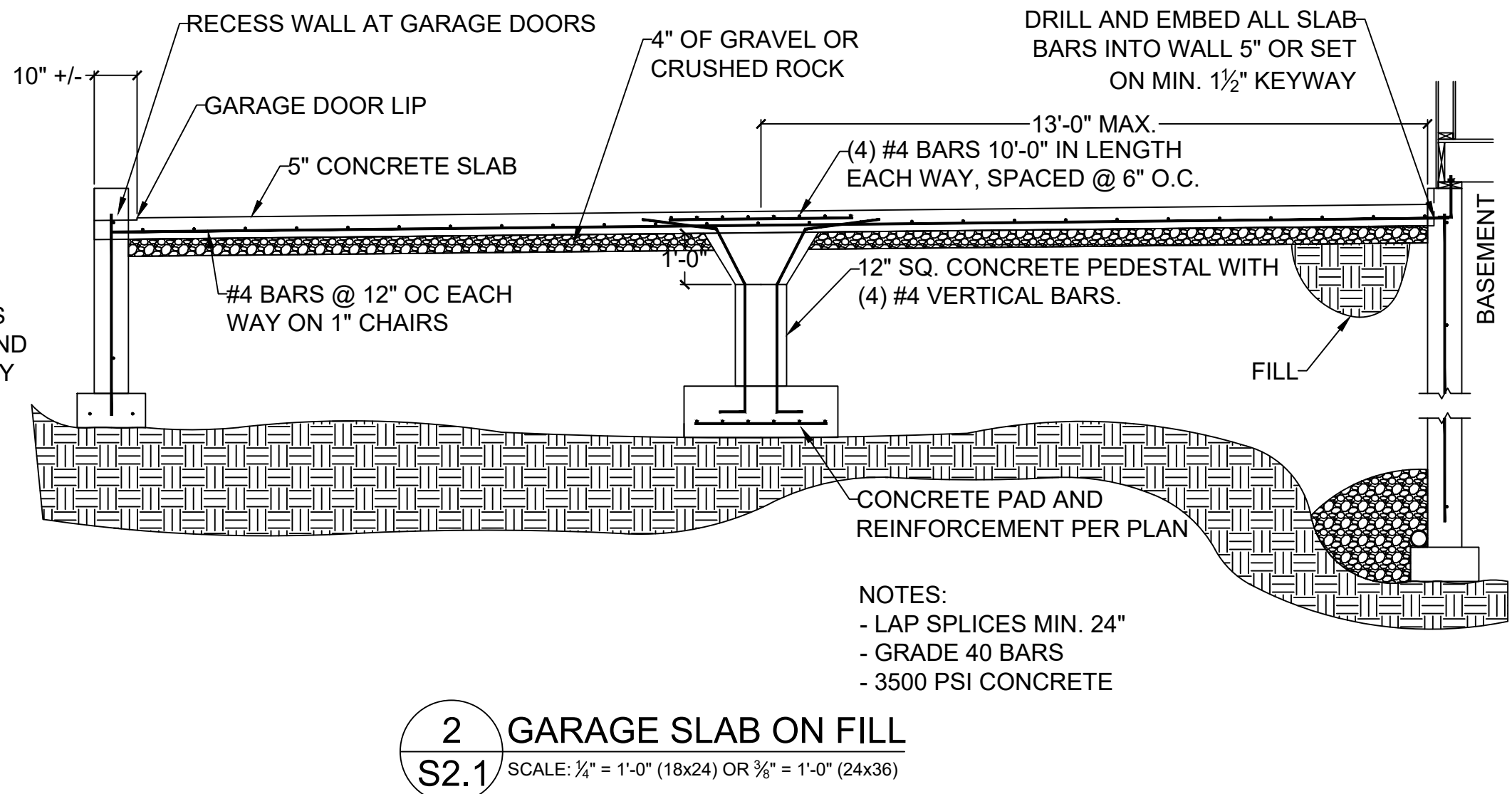
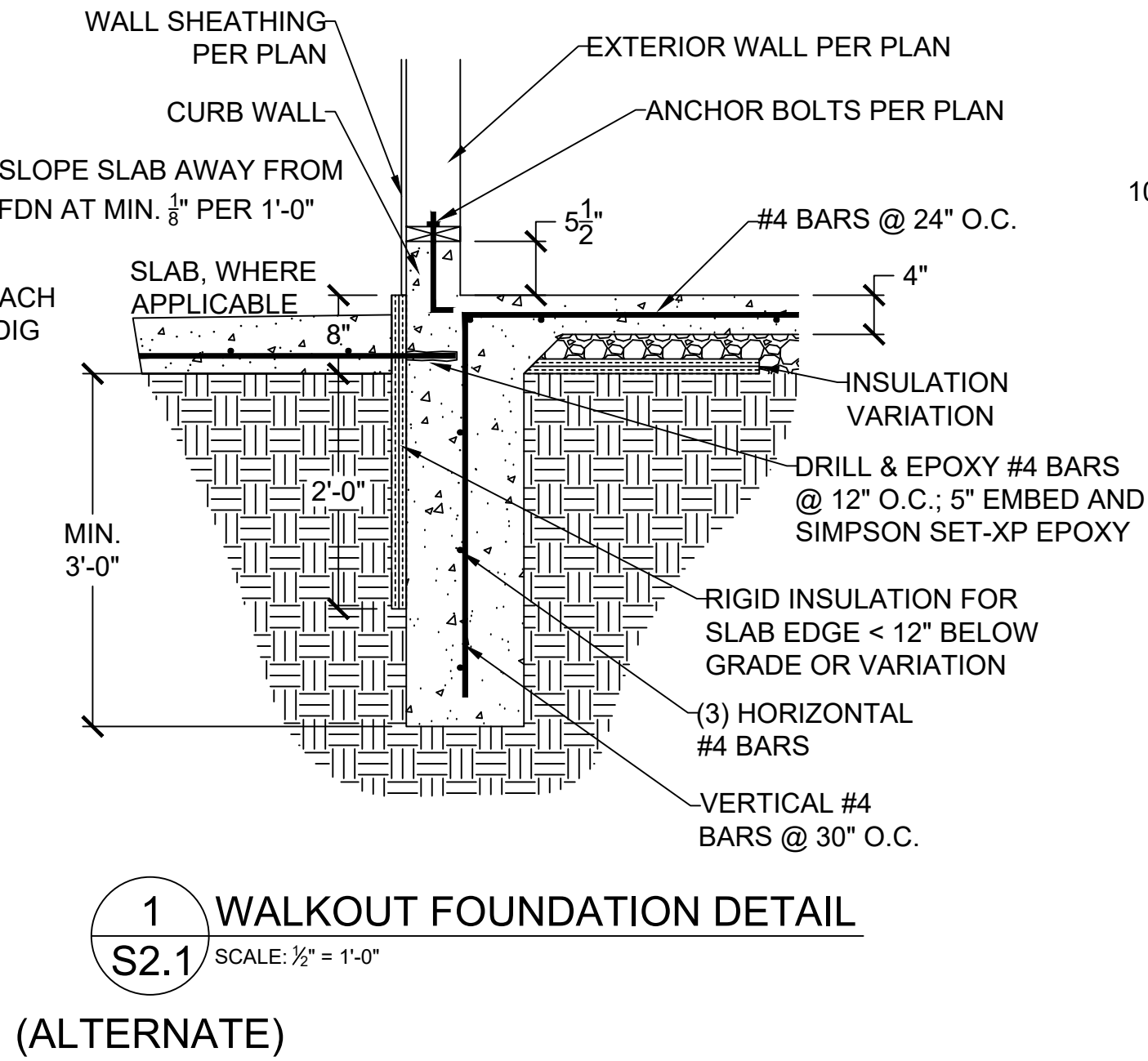
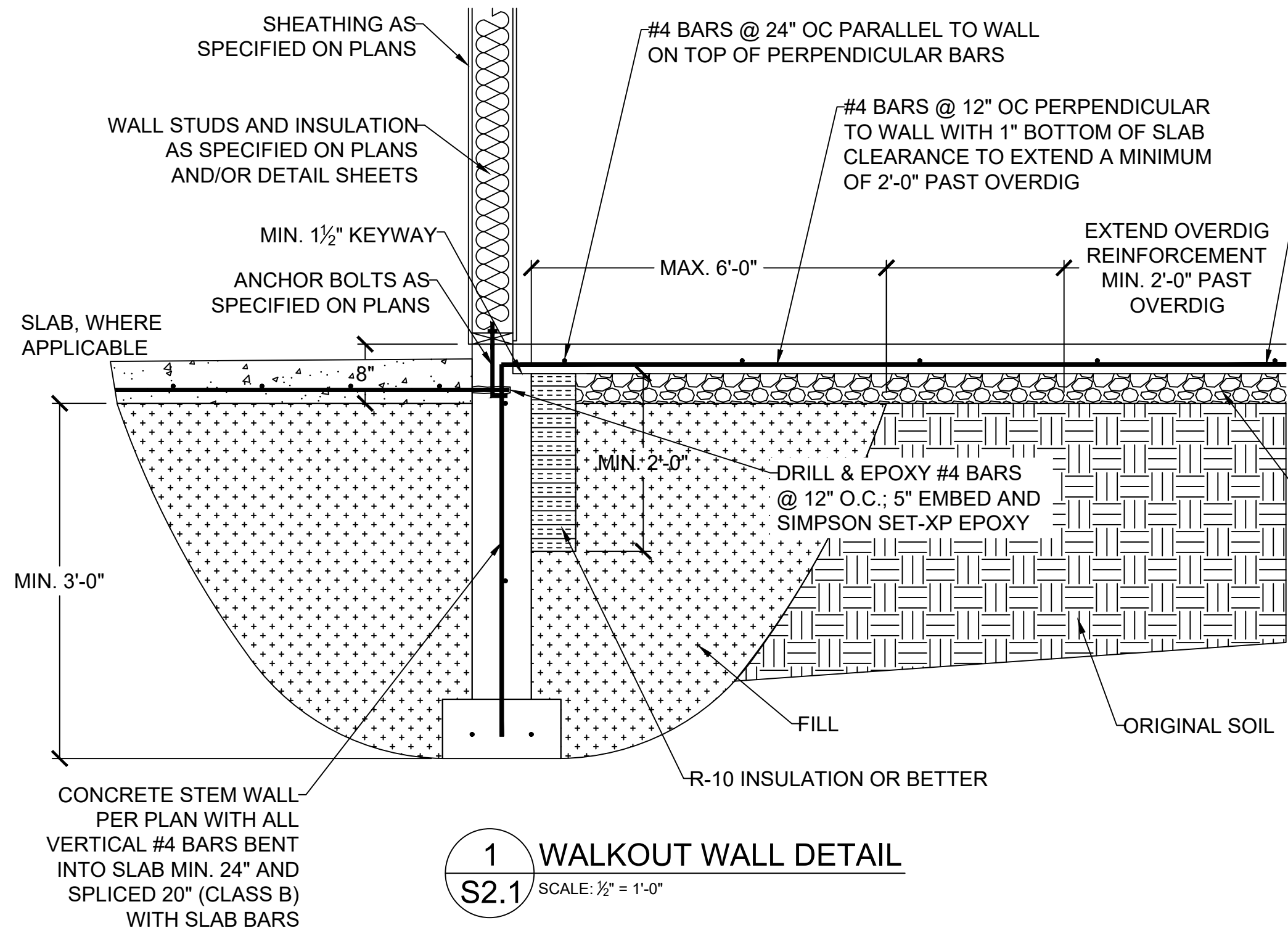
CLIENT: BELLAH HOMES
JOB TITLE: WLO028 SPEC
LOT 28 WOODLAND OAKS
LOCATION: 1817 NE LASHBROOK CIR.
LEE'S SUMMIT, MISSOURI



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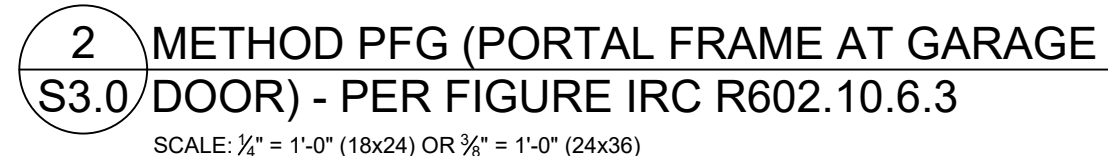
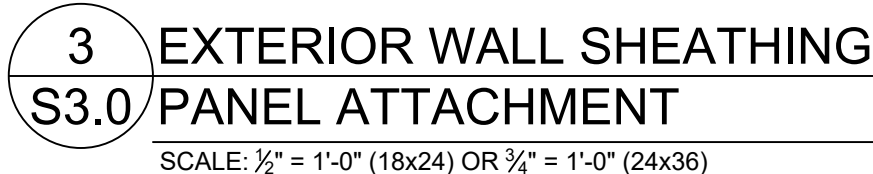
S2.0

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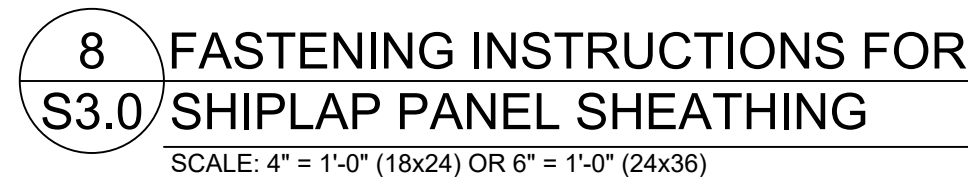
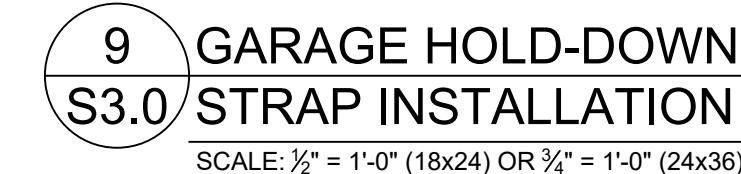
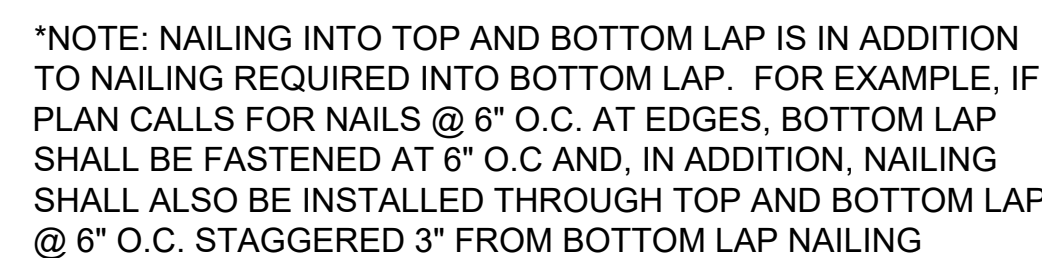
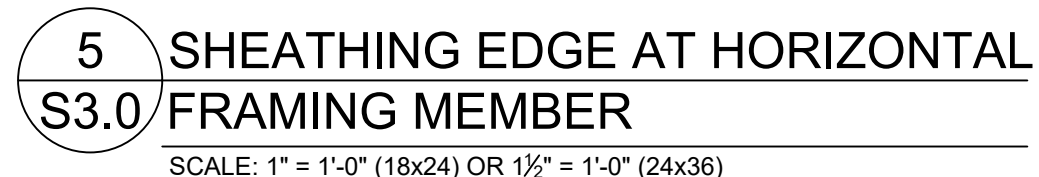
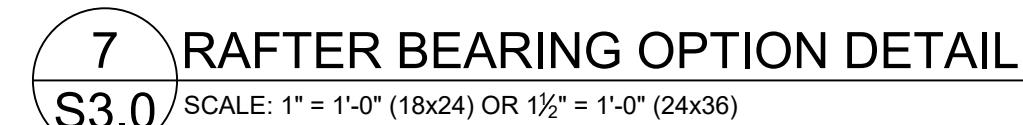


MINIMUM PANEL LENGTH FOR DETAIL 1/S3.C (INCHES)					
WALL HEIGHT					
	8 FEET	9 FEET	10 FEET	11 FEET	12 FEET
SUPPORTING ROOF ONLY	16	16	16	18	20
SUPPORTING ONE STORY AND ROOF	24	24	24	27	29



MINIMUM PANEL LENGTH FOR DETAIL 2/S3.0 (INCHES)				
WALL HEIGHT				
8 FEET	9 FEET	10 FEET	11 FEET	12 FEET
24	27	30	33 ^a	36 ^a

a. Maximum opening height for PFG is 10 feet in accordance with Figure R602.10.6.3, but wall height may be increased to 12 feet with pony wall



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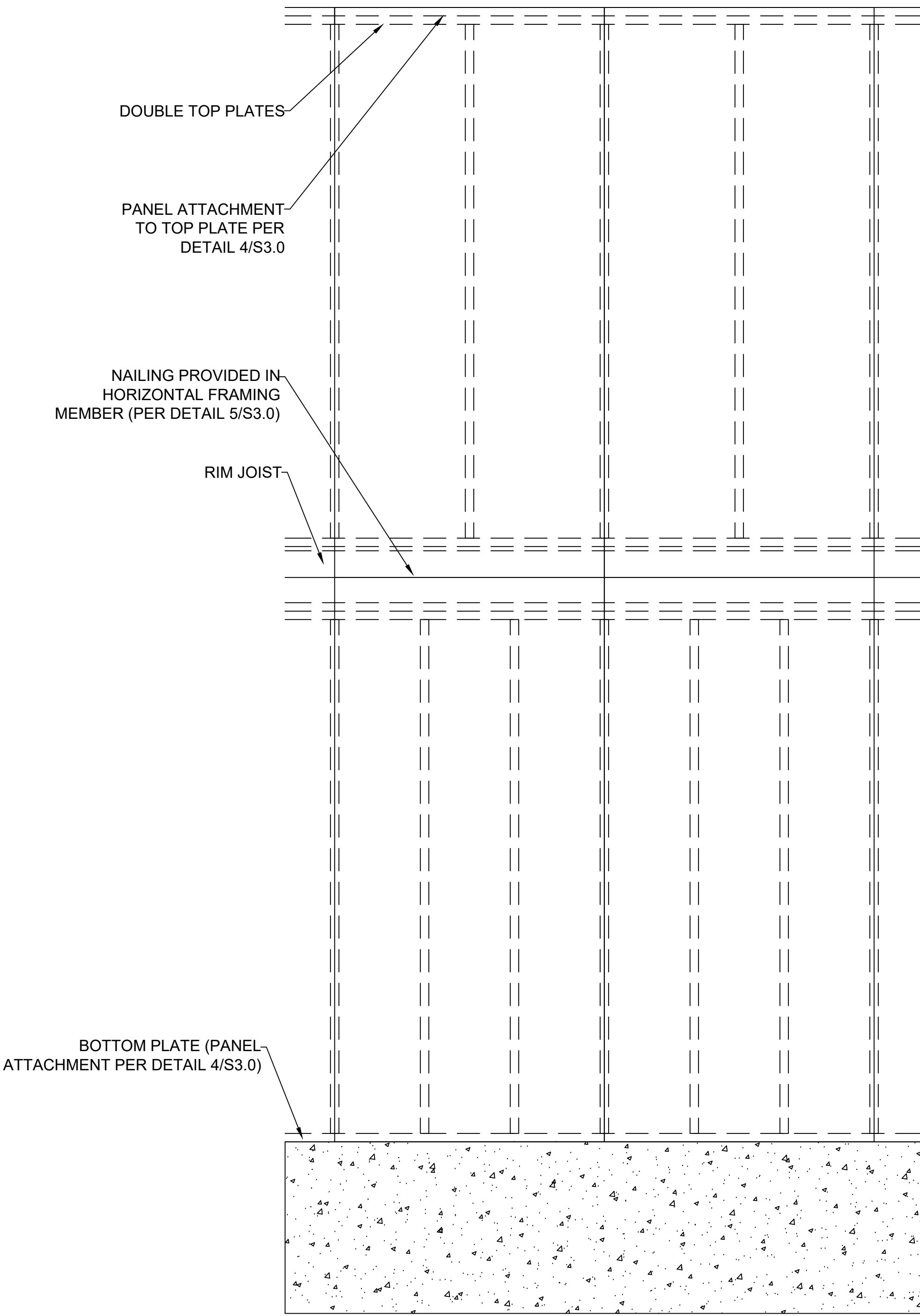
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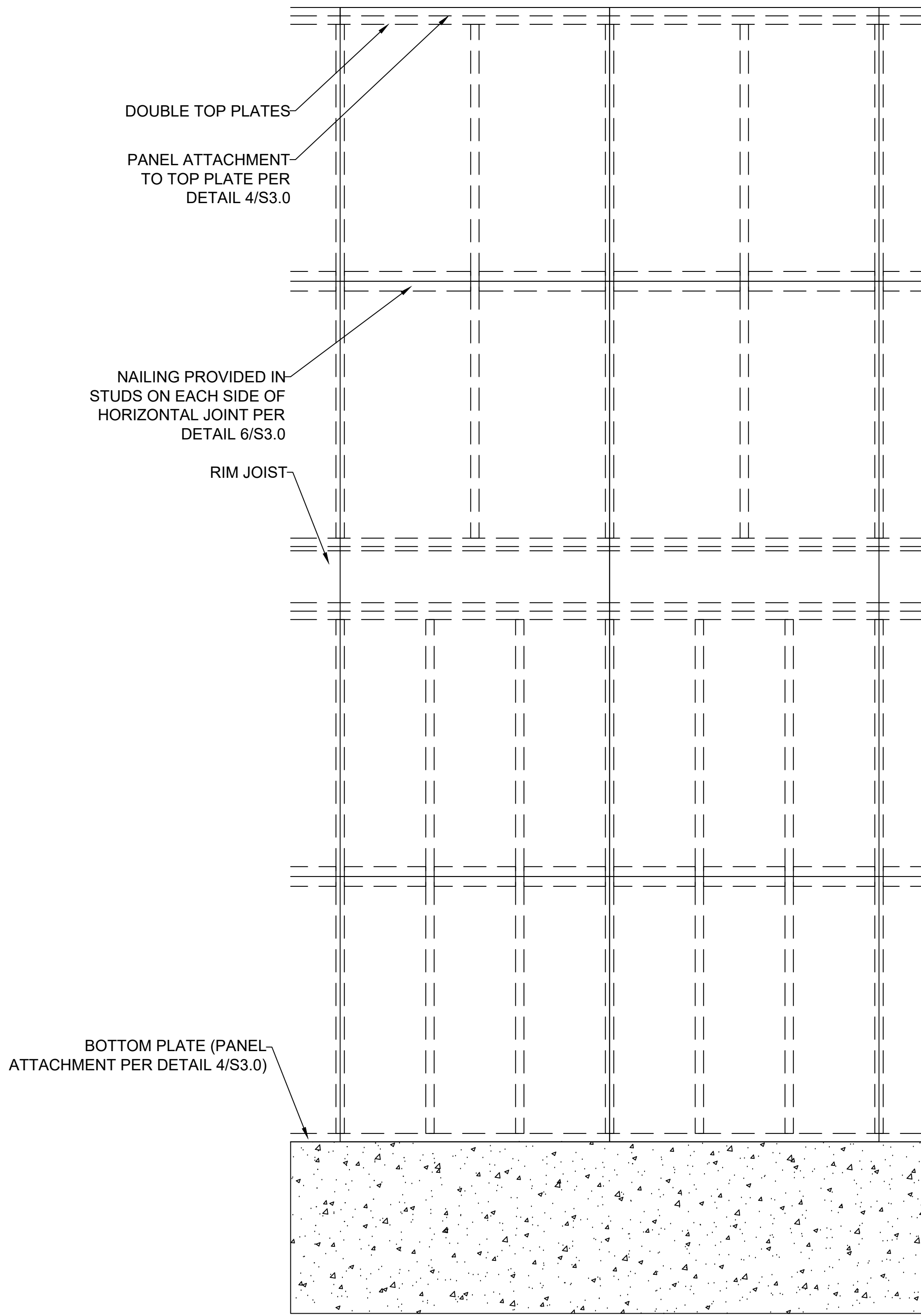
S3.0

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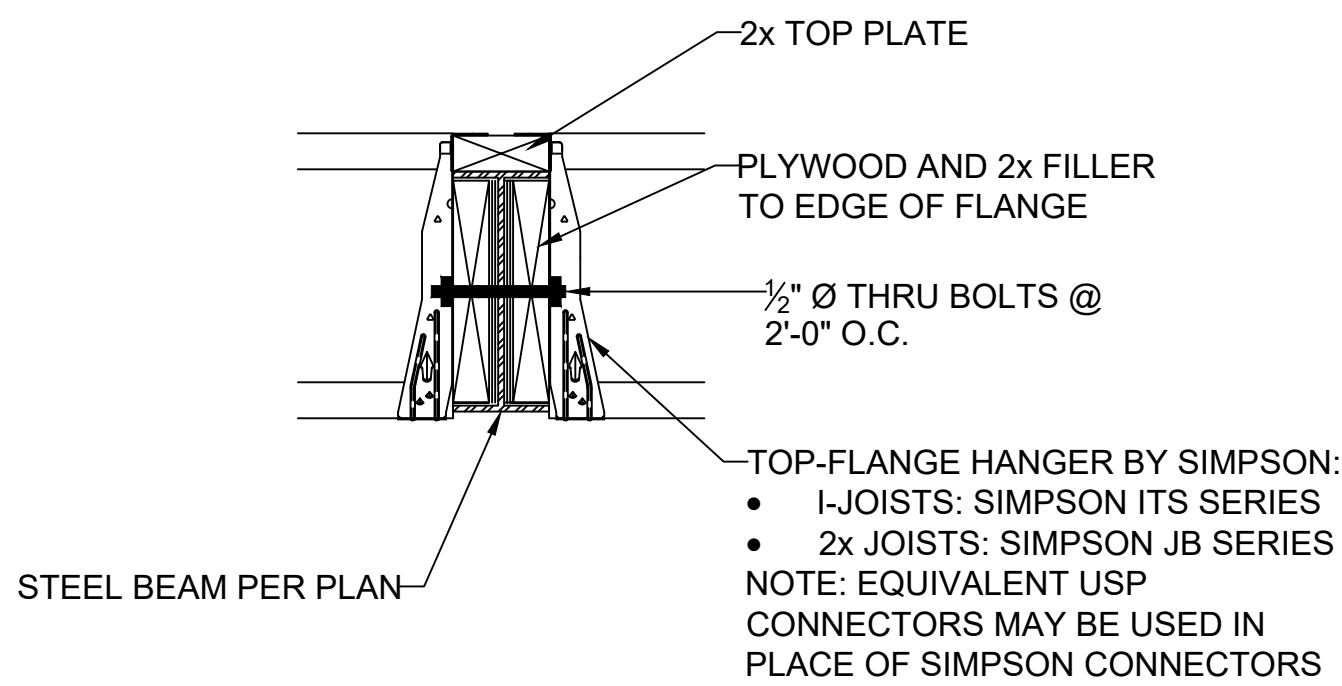
1 EXTERIOR WALL SHEATHING PANEL ATTACHMENT
S3.1 PANEL SPLICE OVER HORIZONTAL FRAMING MEMBER

SCALE: $\frac{1}{2}" = 1'-0"$ (18x24) OR $\frac{3}{4}" = 1'-0"$ (24x36)



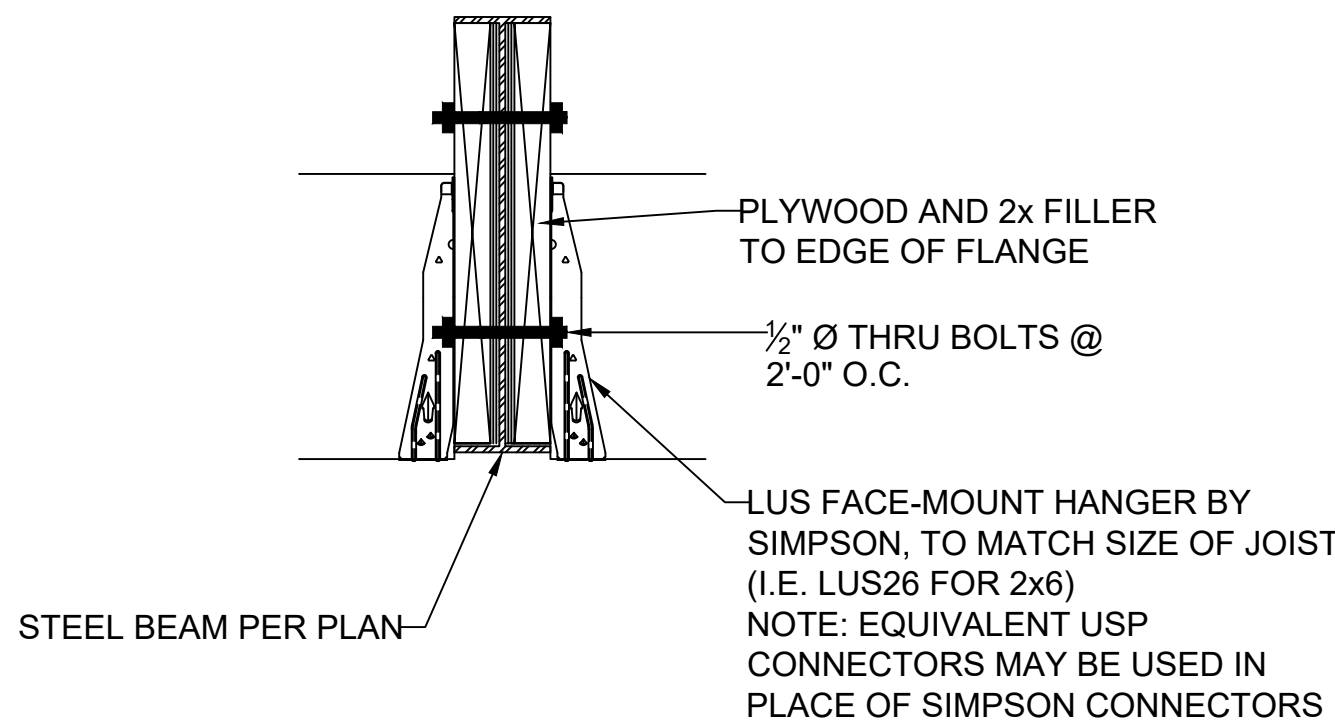
2 EXTERIOR WALL SHEATHING PANEL ATTACHMENT
S3.1 PANEL SPLICE OCCURRING ACROSS STUDS

SCALE: $\frac{1}{2}" = 1'-0"$ (18x24) OR $\frac{3}{4}" = 1'-0"$ (24x36)



4 FLOOR JOIST TO FLUSH STEEL BEAM DETAIL
S3.1

SCALE: $1" = 1'-0"$ (18x24) OR $1\frac{1}{2}" = 1'-0"$ (24x36)

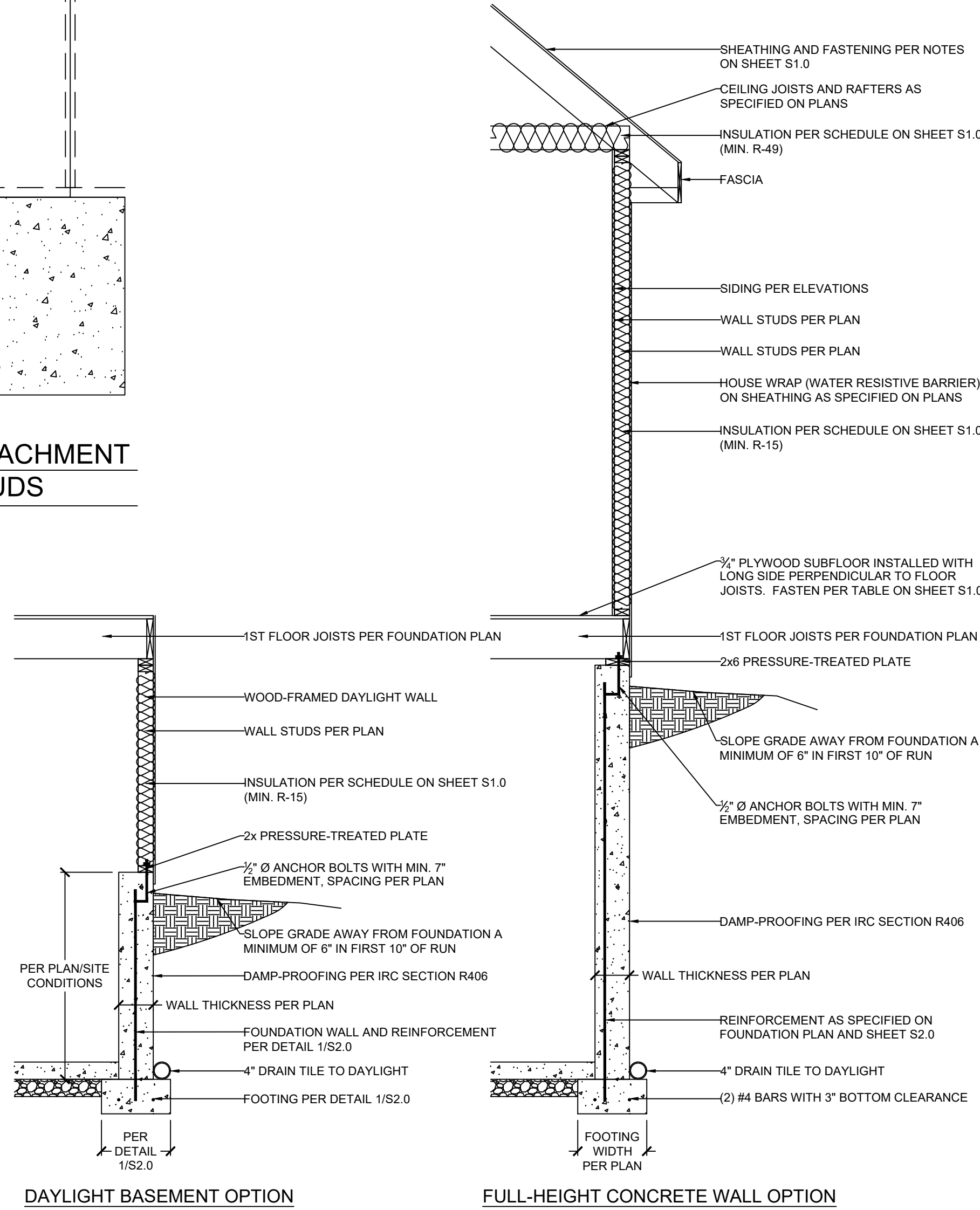


5 CEILING JOIST TO FLUSH STEEL BEAM DETAIL
S3.1

SCALE: $1" = 1'-0"$ (18x24) OR $1\frac{1}{2}" = 1'-0"$ (24x36)

3 EXTERIOR WALL SECTION
S3.1

SCALE: $\frac{1}{2}" = 1'-0"$



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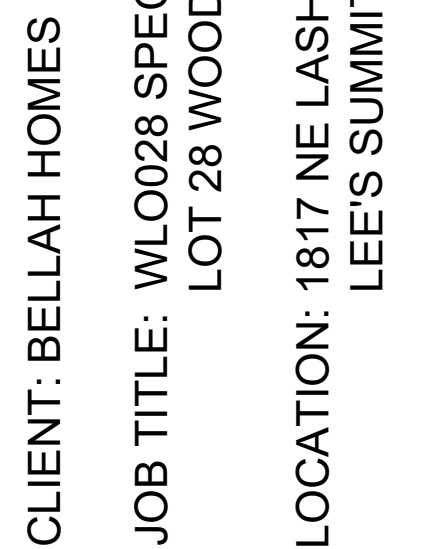
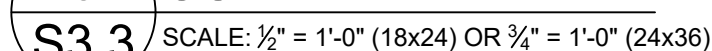
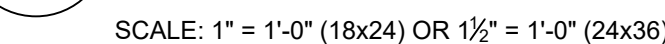
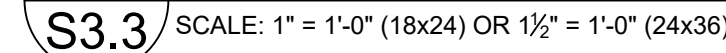
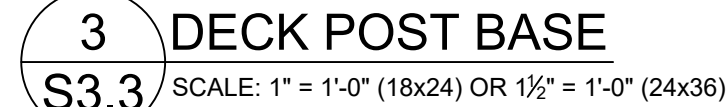
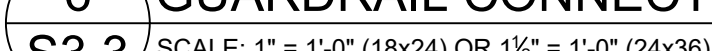
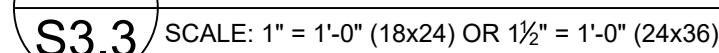
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S3.1



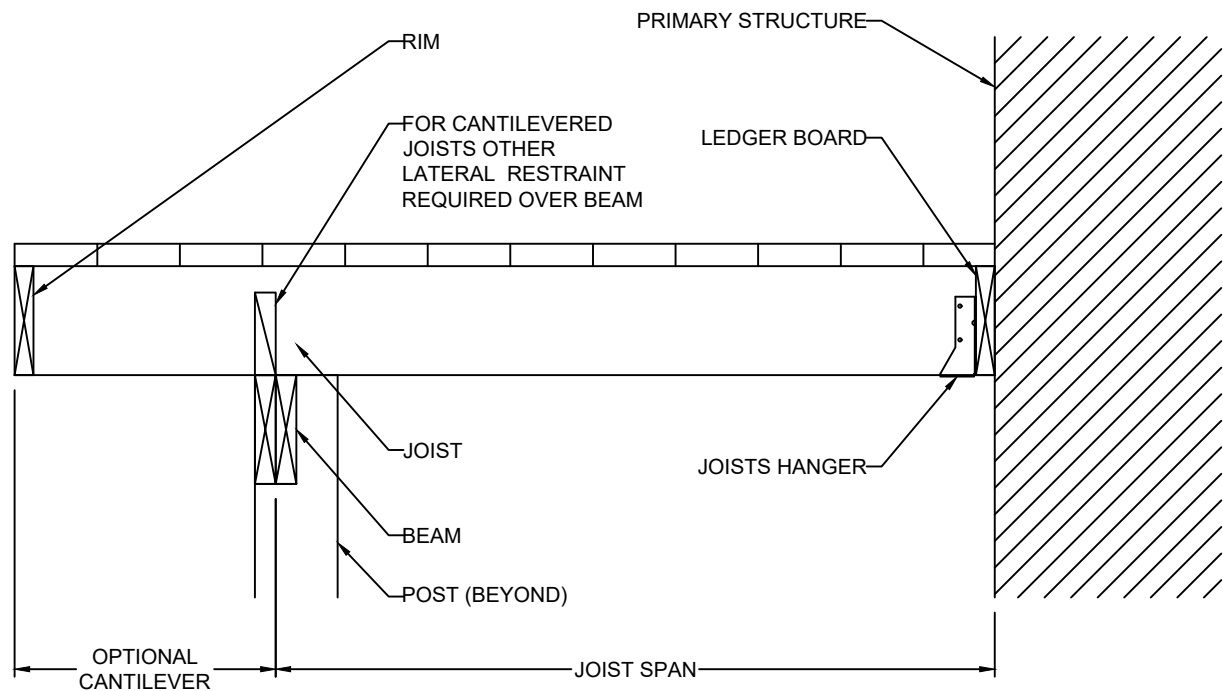
DECK JOIST SPAN	½" Ø GALV. LAG OR ¾" Ø LEDGER-LOK SPACING
10'-0" OR LESS	16" OC
10'-0" - 13'-11"	12" OC OR @ 16" OC DOUBLED EVERY OTHER
14'-0" - 18'-0"	8" OC OR @ 16" OC DOUBLED

SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)

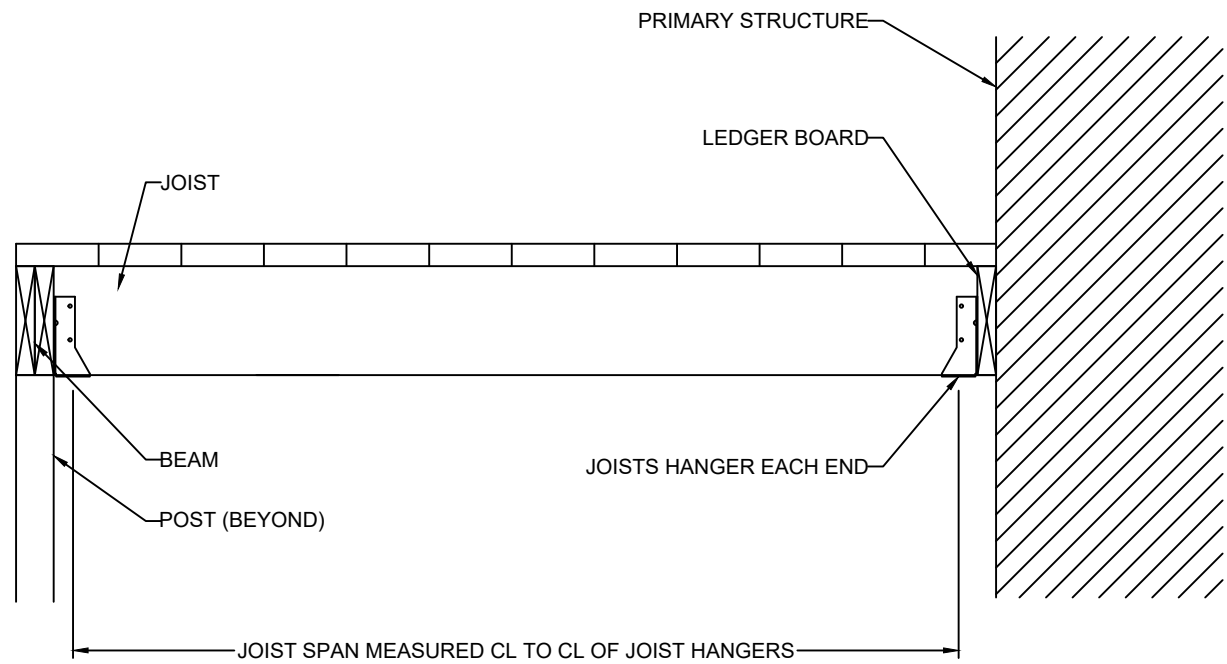


S3.3a

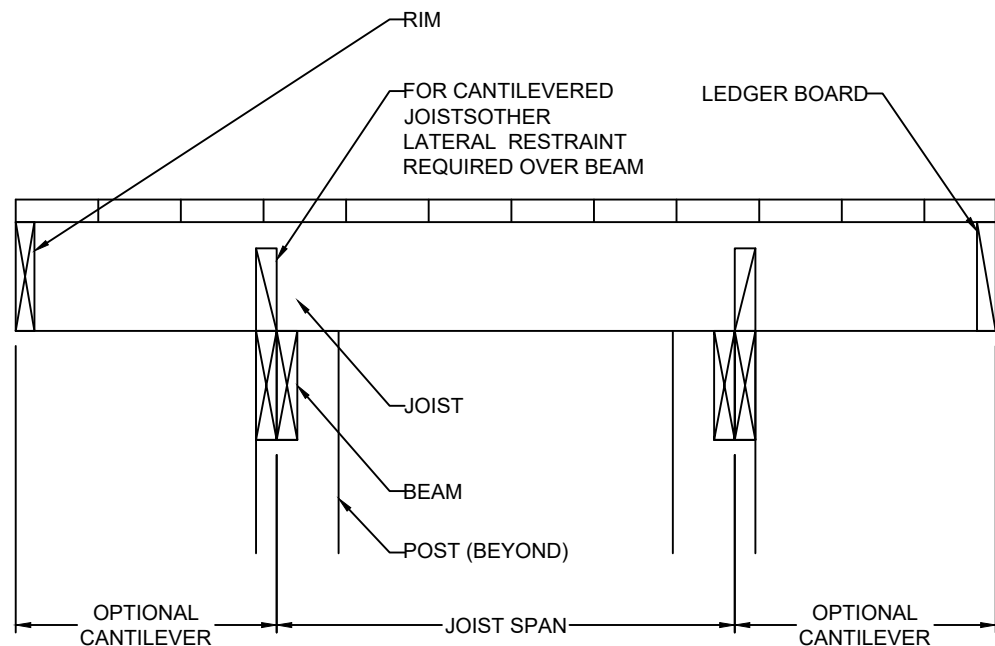
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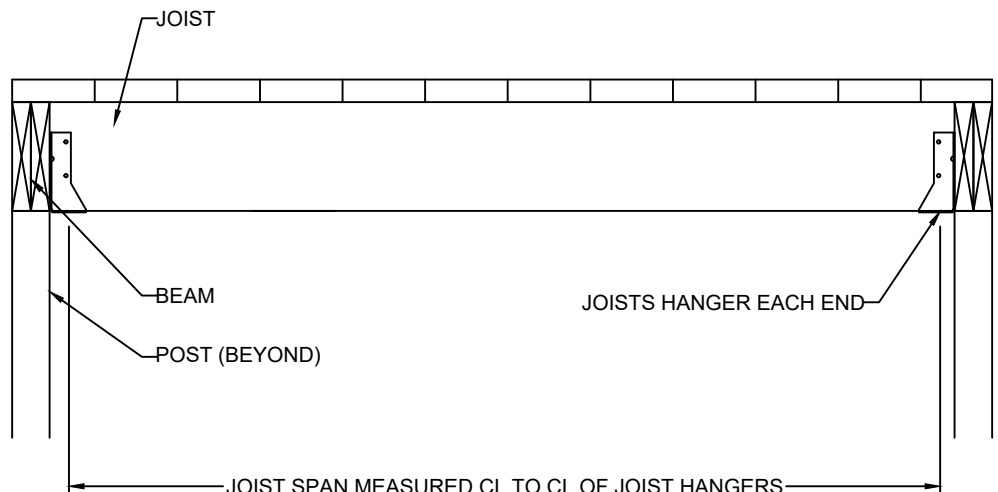
CANTILEVERED JOISTS WITH DROPPED BEAM



JOISTS WITH FLUSH BEAM

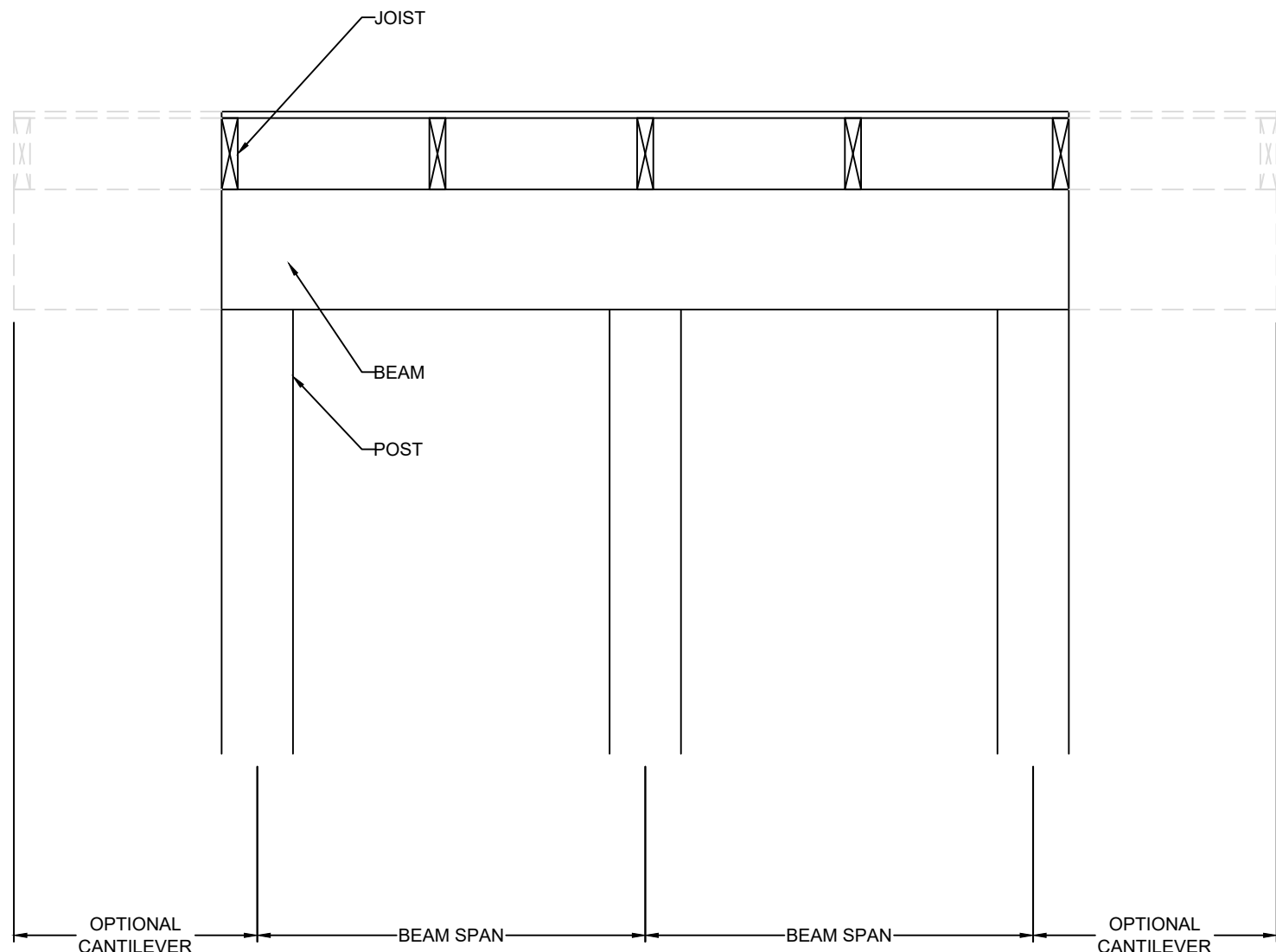


JOISTS ON FREE-STANDING DECK WITH DROPPED BEAM

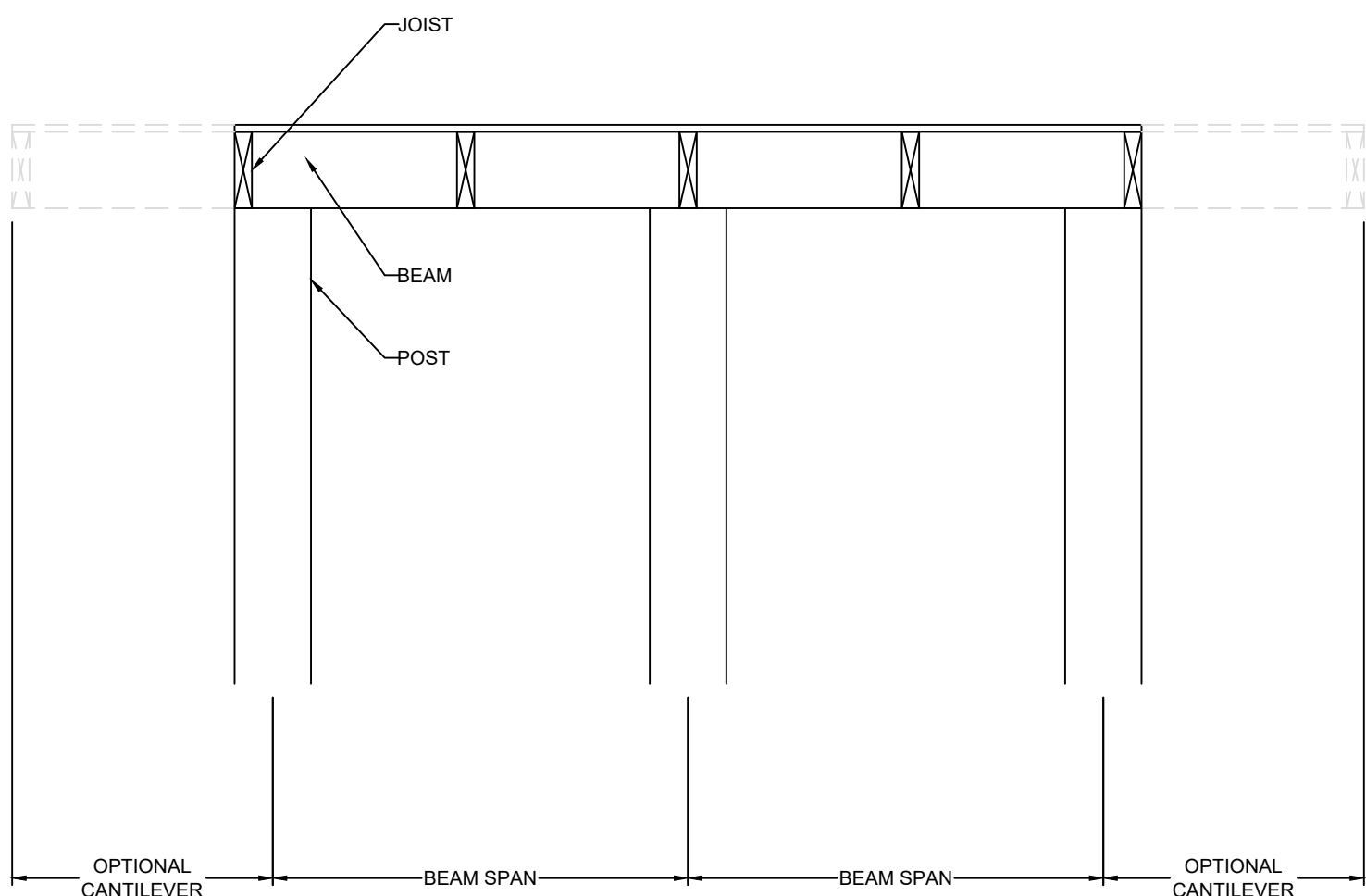


JOISTS WITH FLUSH BEAM

10 TYP. DECK JOIST SPANS
S3.3 SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)



DROPPED BEAM



FLUSH BEAM

11 TYP. DECK JOIST SPANS
S3.3 SCALE: 1" = 1'-0" (18x24) OR 1/2" = 1'-0" (24x36)



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CLIENT: BELLAH HOMES

JOB TITLE: WLO028 SPEC
LOT 28 WOODLAND OAKS

LOCATION: 1817 NE LASHBROOK CIR.
LEE'S SUMMIT, MISSOURI



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S3.3b

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2 WELDED T-BEAM CONNECTION FOR W12x, W14x, W16x & W18x BEAMS
 S3.4 SCALE: 2" = 1'-0" (18x24) OR 3" = 1'-0" (24x36)

W8x - W10x STEEL BEAM

$\frac{1}{16}$ " Ø HOLE (TYP. OF 6)

$\frac{3}{4}$ " Ø A325 BOLT (TYP. OF 6)

MAX. 5"

1"
2

1"
4

6"

3"

1"
4

1"
4

1"
4

3"

B

LL3x3x $\frac{1}{2}$ (DOUBLE ANGLE) 5 $\frac{1}{2}$ " IN LENGTH

SECTION B-B

W8x OR W10x STEEL BEAM

1 BOLTED T-BEAM CONNECTION FOR W8x AND W10x BEAMS
S3.4 SCALE: 2" = 1'-0" (18x24) OR 3" = 1'-0" (24x36)

W12x - W18x
STEEL BEAM

MAX.
5"

$\frac{1}{2}$ "

LL 3x3x $\frac{1}{4}$ " (DOUBLE
ANGLE) 8 $\frac{1}{2}$ " IN
LENGTH

D

$\frac{1}{4}$ "

3"

3"

3"

3"

1 $\frac{3}{16}$ " Ø HOLE
(TYP. OF 9)

9"

$\frac{3}{4}$ " Ø A325 BOLT
(TYP. OF 9)

1 $\frac{1}{4}$ "

1 $\frac{1}{4}$ "

1 $\frac{1}{4}$ "

1 $\frac{1}{4}$ "

3"

3"

3"

3"

SECTION D-D

W12x - W18x
STEEL BEAM

2 BOLTED T-BEAM CONNECTION FOR W12x, W14x, W16x & W18x BEAMS
S3.4 SCALE: 2" = 1'-0" (18x24) OR 3" = 1'-0" (24x36)

Diagram illustrating an alternate splice for a steel beam using a complete joint penetration weld.

The diagram shows a side view of the beam with a central weld joint. Dimensions include 1/2 inch gap at the top and bottom, 3 inches gap on the sides, and 1/4 inch gap at the ends. A 5/8 inch x 6 1/2 inch x 3/8 inch steel plate is shown on each side of the beam. A 3/4 inch diameter A325 bolt is shown in the center of the beam.

Labels and dimensions:

- W8x OR W10x STEEL BEAM
- 5/8" x 6 1/2" x 3/8" STEEL PLATE ON EACH SIDE OF BEAM SPLICE
- 3/4" Ø A325 BOLT (TYP. OF 6)
- 1/2"
- 3"
- 1/4"
- SECTION A-A
- ALTERNATE SPLICE: COMPLETE JOINT PENETRATION WELD

3 BEAM SPLICE CONNECTION FOR W8x AND W10x BEAMS

S3.4 SCALE: 2" = 1'-0" (18x24) OR 3" = 1'-0" (24x36)

