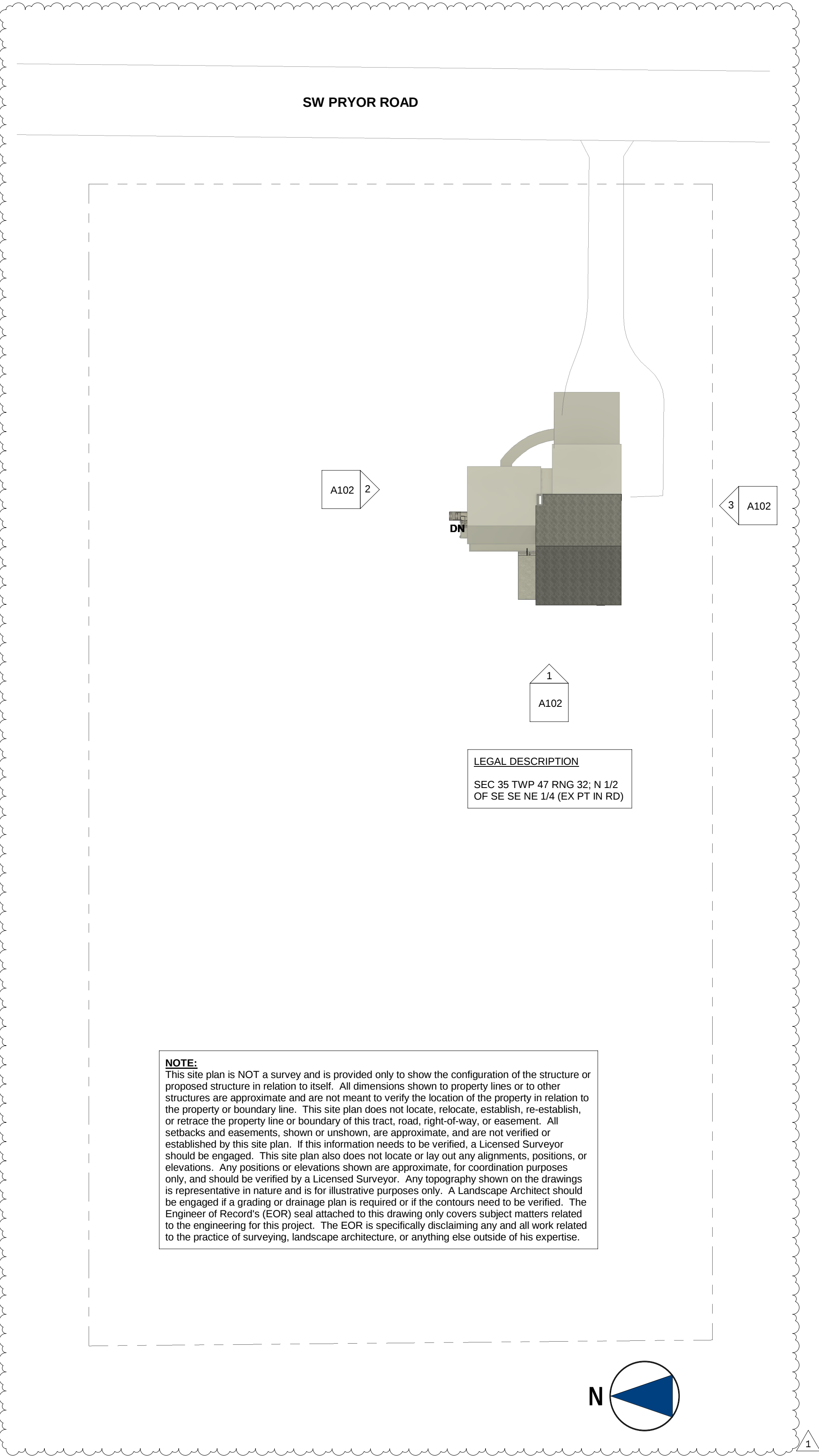




1 SITE PLAN
SCALE: 1" = 40'-0"

N&S
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N&S JOB NUMBER: 2025-1063
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STATE OF MISSOURI
BRANDON SCHWABAUER
NUMBER
PE-2015003020
09/12/25
PROFESSIONAL ENGINEER

PROJECT INFORMATION

HOUSE ADDITION
4090 SW PRYOR ROAD
LEE'S SUMMIT, MISSOURI 64082
RACHEL AND DANIEL DERCHER

ISSUES & REVISIONS		
#	DATE	DESCRIPTION
	8/29/2025	PERMIT
1	9/12/2025	CLIENT REVISION

DESIGNED BY: MLR
CHECKED BY: BSS
ISSUED FOR:

SHEET TITLE

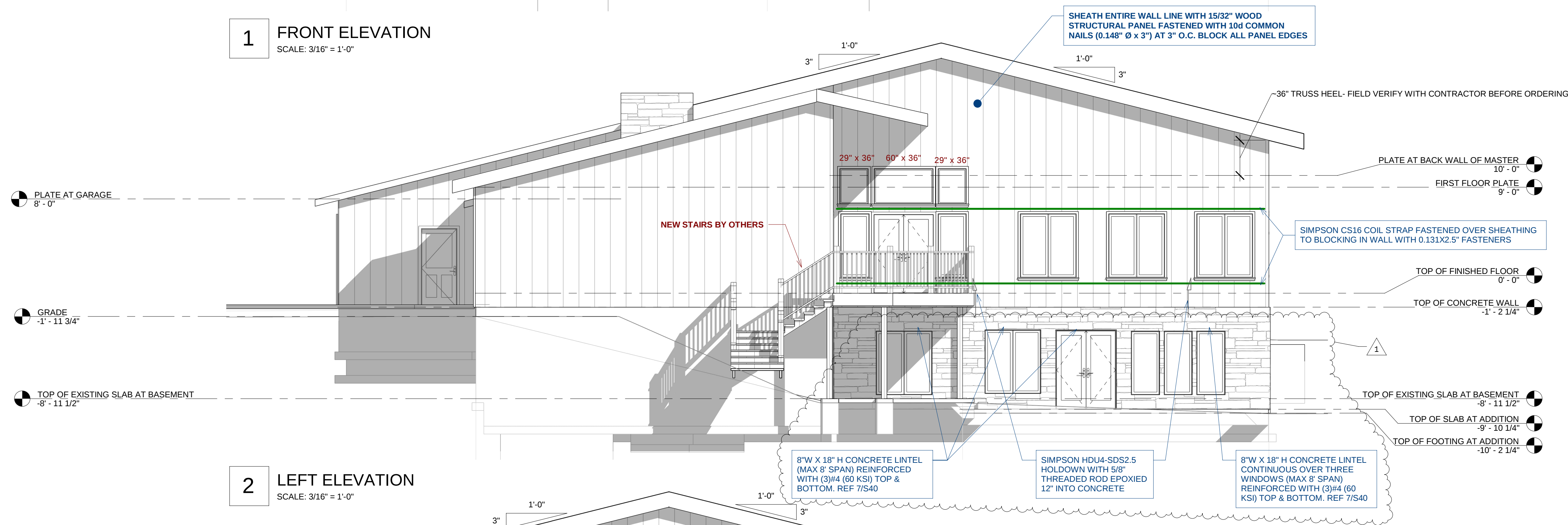
SITE PLAN

SHEET NUMBER

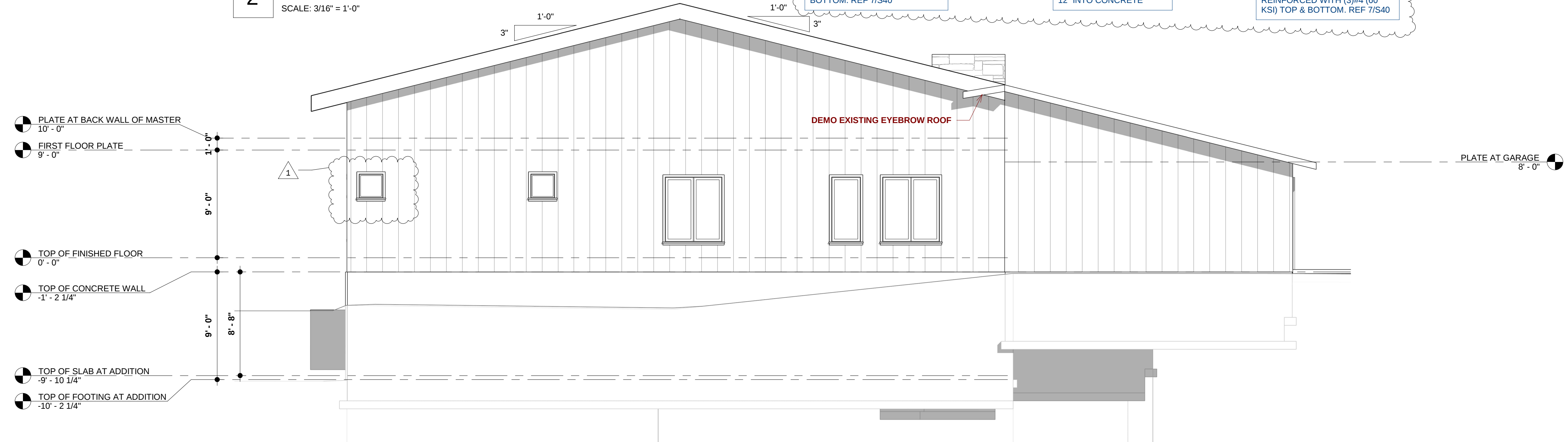
A101



1 FRONT ELEVATION
SCALE: 3/16" = 1'-0"



2 LEFT ELEVATION
SCALE: 3/16" = 1'-0"



3 RIGHT ELEVATION
SCALE: 3/16" = 1'-0"

GENERAL NOTES

GOVERNING BUILDING CODE:	2018 INTERNATIONAL RESIDENTIAL CODE (IRC) AND ITS APPROPRIATE SUPPLEMENTS
DESIGN LOADS:	
ROOF DEAD LOAD:	15 psf
ROOF LIVE LOAD:	20 psf
FLOOR DEAD LOAD:	10 psf
FLOOR LIVE LOAD:	
BEDROOMS:	30 psf
ALL OTHER LIVING AREAS:	40 psf
WIND LOADS:	Vult=115 MPH, EXPOSURE C
SEISMIC LOADS:	SITE CLASS "B"
ASSUMED ALLOWABLE SOIL BEARING PRESSURE	1,500 PSF

- GENERAL:
- FURNISH ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO COMPLETE THE WORK SHOWN OR INFERRED BY THESE DRAWINGS.
 - THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE PLANS AND FOR COORDINATING ALL DIMENSIONS AND ELEVATIONS SHOWN WITH THE EXISTING CONDITIONS. IF ERRORS OR DISCREPANCIES IN THE DIMENSIONS OCCUR, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
 - THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING AND SHORING AS REQUIRED DURING CONSTRUCTION TO ENSURE THE SAFETY OF ALL INDIVIDUALS INVOLVED.
 - ALL MECHANICAL, ELECTRICAL, AND PLUMBING ELEMENTS SHALL BE INSTALLED PER THE REQUIREMENTS OF THE GOVERNING BUILDING CODE AND THE LOCAL MUNICIPALITY.
 - NORTON & SCHMIDT CONSULTING ENGINEERS, L.L.C. HAS DESIGNED THE STRUCTURAL FLOOR FRAMING AND WALL BRACING SYSTEM OF THESE PLANS FOR THE CONSTRUCTION OF A RESIDENCE AT THE ADDRESS REFERENCED IN THE PLANS. NORTON & SCHMIDT CONSULTING ENGINEERS, L.L.C. WILL NOT TAKE RESPONSIBILITY FOR ANY RE-USE OF ANY PORTION OF THE DESIGN, PLANS OR SPECIFICATION AT ANY OTHER PROPERTY OR ADDRESS WITHOUT OUR PRIOR WRITTEN CONSENT.

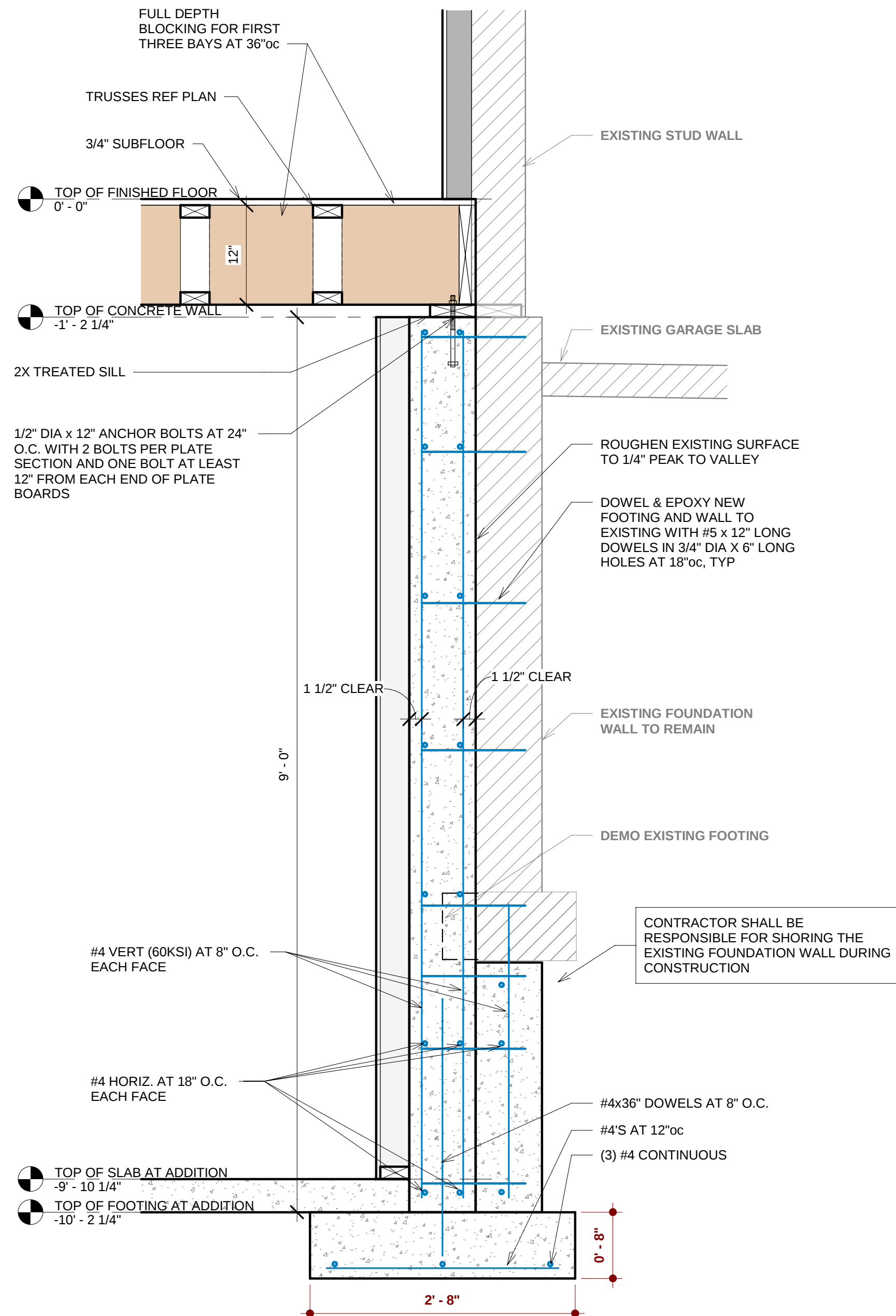
BUILDER'S PLANS:
THE TERM "BUILDER'S PLANS" REFERS TO A CERTAIN LEVEL OF DEVELOPMENT OF THE DRAWINGS. AS THE NAME IMPLIES, THESE PLANS REQUIRE THAT THE CONTRACTOR POSSESSES COMPETENCE IN RESIDENTIAL CONSTRUCTION AND A THOROUGH UNDERSTANDING OF THE INTERNATIONAL RESIDENTIAL CODE (IRC). THE CONTRACTOR WARRANTS TO NORTON & SCHMIDT CONSULTING ENGINEERS, L.L.C., THAT HE POSSESSES THE PARTICULAR COMPETENCE AND SKILL IN CONSTRUCTION NECESSARY TO BUILD THIS PROJECT WITHOUT FULL ENGINEERING AND DESIGN SERVICES, AND FOR THAT REASON THE CONTRACTOR OR HOME OWNER HAS RESTRICTED THE SCOPE OF PROFESSIONAL SERVICES. THE CONSTRUCTION DOCUMENTS PROVIDED BY THE LIMITED SERVICES SHALL BE TERMED "BUILDER'S PLANS" IN RECOGNITION OF THE CONTRACTOR'S SOPHISTICATED. ALTHOUGH NORTON & SCHMIDT CONSULTING ENGINEERS, L.L.C. AND OUR CONSULTANTS HAVE PERFORMED THEIR SERVICES WITH DUE CARE AND DILIGENCE, WE CANNOT GUARANTEE PERFECTION. ANY AMBIGUITY OR DISCREPANCY DISCOVERED BY THE USE OF THESE PLANS SHALL BE REPORTED IMMEDIATELY TO NORTON & SCHMIDT CONSULTING ENGINEERS, L.L.C. CONSTRUCTION MAY REQUIRE THAT THE CONTRACTOR ADAPT THE "BUILDER'S PLANS" TO THE FIELD CONDITIONS ENCOUNTERED AND MAKE LOGICAL ADJUSTMENTS IN PLAN, DETAIL, DIMENSION AND QUANTITY. CHANGES MADE FROM THE PLANS WITHOUT THE CONSENT OF NORTON & SCHMIDT CONSULTING ENGINEERS, L.L.C. ARE UNAUTHORIZED. IT IS ALSO UNDERSTOOD THAT THE CONTRACTOR WILL BE RESPONSIBLE FOR MEETING ALL APPLICABLE BUILDING CODES INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL, AND PLUMBING CODE REQUIREMENTS (WHICH IS EXCLUDED FROM THESE PLANS). IN THE EVENT ADDITIONAL DETAIL OR REQUIREMENTS ARE NEEDED BY THE CONTRACTOR OR HOMEOWNER FOR CONSTRUCTION OF ANY ASPECT OF THE PROJECT, NORTON & SCHMIDT CONSULTING ENGINEERS, L.L.C. OR A QUALIFIED ARCHITECT/ENGINEER SHALL IMMEDIATELY BE RETAINED. FAILURE TO NOTIFY US OF THESE NEEDS OR OF CHANGES TO THE PLANS SHALL RELIEVE NORTON & SCHMIDT CONSULTING ENGINEERS, L.L.C. OF ALL RESPONSIBILITIES OF THE CONSEQUENCES.

FLOOR FRAMING PLANS NOTES

NOTES ARE TYPICAL UNLESS NOTE NUMBER IS INSIDE OF CIRCLE, THEN THE NOTE REFERS TO A SPECIFIC LOCATION(S) MARKED ON THE PLAN.

1. PROVIDE 3/4" TONGUE AND GROOVE WOOD STRUCTURAL PANEL SHEATHING FOR SUBFLOOR GLUED AND NAILED TO WOOD JOISTS WITH 8d NAILS AT 6"oc AT PANEL EDGES AND 12"oc AT NON-PANEL EDGES.
2. ALL EXTERIOR WALL FRAMING SHALL BE 2x4 OR 2x6 DOUG-FIR NO. 2 AT 16"oc.
3. PROVIDE 1/2" EXTERIOR GRADE PLYWOOD SHEATHING NAILED TO WOOD STUDS WITH 8d NAILS AT 6"oc AT PANEL EDGES AND 12"oc AT NON-PANEL EDGES.
4. ALL INTERIOR BEARING WALL FRAMING SHALL BE 2x4 OR 2x6 DOUG-FIR NO. 2 AT 16"oc.
5. DOUBLE FLOOR JOISTS UNDER ALL PARTITION WALLS RUNNING PARALLEL WITH JOISTS.
6. PROVIDE PROPER WALL INSULATION AS REQUIRED BY GOVERNING BUILDING CODE.
7. STAIRS SHALL HAVE A MAXIMUM RISE OF 7-3/4" AND MINIMUM TREAD OF 10". ALL RISERS AND TREADS TO BE EQUAL BETWEEN FLOORS.
8. PROVIDE WALL BRACING AS SHOWN ON PLAN.
9. PROVIDE HEADERS AS SHOWN ON PLAN, FOR HEADERS NOT MARKED REFERENCE TYPICAL BEARING WALL HEADER SCHEDULE.
10. FLOOR JOISTS: SEE IRC TABLE R502.3.1(1) AND R502.3.1(2) FOR SPAN, SIZE SPACING, AND GRADE OF FLOOR JOISTS.

FOOTING SCHEDULE				
MARK	SIZE L x W x THK	REINFORCING (NO) SIZE LOCATION	TOF EL	COLUMN
F1	2'-0" x 2'-0" x 1'-0"	(4) #4 EW BOTTOM	8" BELOW TOP OF SLAB	3"Ø STD STEEL PIPE COLUMN
F2	2'-6" x 2'-6" x 1'-0"	(5) #4 EW BOTTOM	8" BELOW TOP OF SLAB	3"Ø STD STEEL PIPE COLUMN
F3	3'-0" x 3'-0" x 1'-0"	(6) #4 EW BOTTOM	8" BELOW TOP OF SLAB	3"Ø STD STEEL PIPE COLUMN
F4	3'-6" x 3'-6" x 1'-0"	(7) #4 EW BOTTOM	8" BELOW TOP OF SLAB	3.5"Ø (4" OD) STD STEEL PIPE COLUMN
F5	4'-0" x 4'-0" x 1'-4"	(8) #4 EW BOTTOM	8" BELOW TOP OF SLAB	3.5"Ø (4" OD) STD STEEL PIPE COLUMN
F6	4'-6" x 4'-6" x 1'-4"	(9) #4 EW BOTTOM	8" BELOW TOP OF SLAB	3.5"Ø (4" OD) STD STEEL PIPE COLUMN



TYPICAL BRACED WALL METHOD

WSP - WOOD STRUCTURAL PANEL; WOOD STRUCTURAL PANEL SHEATHING WITH A THICKNESS NOT LESS THAN 3/8" FOR 16" STUD SPACING, FASTEN WITH 6d COMMON NAILS (0.131" DIA x 2" LONG) AT 6"oc ALONG EDGES AND 12"oc AT INTERMEDIATE SUPPORTS, WHERE SHOWN ON PLANS. UNLESS OTHERWISE NOTED, PANEL WIDTH = 4'-0".

CS-WSP - CONTINUOUSLY SHEATHED WOOD STRUCTURAL PANEL; WOOD STRUCTURAL PANEL SHEATHING WITH A THICKNESS NOT LESS THAN 3/8" FOR 16" STUD SPACING, FASTEN WITH 6d COMMON NAILS (0.131" DIA x 2" LONG) AT 6"oc ALONG EDGES AND 12"oc AT INTERMEDIATE SUPPORTS, PLACED ON ALL SHEATHABLE SURFACES ON ONE SIDE OF THE BRACED WALL LINE INCLUDING AREAS ABOVE AND BELOW OPENINGS AND GABLE END WALLS.

GB - GYPSUM BOARD; 1/2" GYPSUM BOARD WITH 13 GAGE, 1 3/8" LONG, 19/64" HEAD, 0.098" DIA, 1 3/8" LONG, ANNULAR-RINGED; 6d COOLER NAIL, 0.092" DIA, 1 7/8" LONG, 1/4" HEAD; OR GYPSUM BOARD NAIL, 0.0915" DIA, 1 7/8" LONG, 19/64" HEAD, TYPE W OR TYPE S SCREWS; AT 7"oc EDGES & 7"oc FIELD

PFH - PORTAL FRAME WITH HOLD-DOWNS; REF PORTAL FRAME WITH HOLD-DOWNS DETAIL

ABW - ALTERNATE BRACED WALL; REF ALTERNATE BRACED WALL DETAIL

PFG - PORTAL FRAME AT GARAGE; REF PORTAL FRAME AT GARAGE DETAIL

LIB - LET-IN BRACE; REF LET-IN BRACE DETAIL.

HPS - HARDBOARD PANEL SIDING; HARDBOARD PANEL SIDING WITH A 7/16" THICKNESS. FASTEN WITH 0.092" DIA, 0.225" DIA HEAD NAILS WITH LENGTH TO ACCOMMODATE 1 1/2" PENETRATION INTO STUDS AT 4"oc ALONG EDGES AND 8" AT INTERMEDIATE SUPPORTS.

FLOOR FRAMING PLANS NOTES

NOTES ARE TYPICAL UNLESS NOTE NUMBER IS INSIDE OF CIRCLE, THEN THE NOTE REFERS TO A SPECIFIC LOCATION(S) MARKED ON THE PLAN.

- PROVIDE 3/4" TONGUE AND GROOVE WOOD STRUCTURAL PANEL SHEATHING FOR SUBFLOOR GLUED AND NAILED TO WOOD JOISTS WITH 8d NAILS AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT NON-PANEL EDGES.
- ALL EXTERIOR WALL FRAMING SHALL BE 2x4 OR 2x6 DOUG-FIR NO. 2 AT 16" O.C.
- PROVIDE 1/2" EXTERIOR GRADE PLYWOOD SHEATHING NAILED TO WOOD STUDS WITH 8d NAILS AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT NON-PANEL EDGES.
- ALL INTERIOR BEARING WALL FRAMING SHALL BE 2x4 OR 2x6 DOUG-FIR NO. 2 AT 16" O.C.
- DOUBLE FLOOR JOISTS UNDER ALL PARTITION WALLS RUNNING PARALLEL WITH JOISTS.
- PROVIDE PROPER WALL INSULATION AS REQUIRED BY GOVERNING BUILDING CODE.
- STAIRS SHALL HAVE A MAXIMUM RISE OF 7-3/4" AND MINIMUM TREAD OF 10". ALL RISERS AND TREADS TO BE EQUAL BETWEEN FLOORS.
- PROVIDE WALL BRACING AS SHOWN ON PLAN.
- PROVIDE HEADERS AS SHOWN ON PLAN, FOR HEADERS NOT MARKED REFERENCE TYPICAL BEARING WALL HEADER SCHEDULE.
- FLOOR JOISTS: SEE IRC TABLE R502.3.1(1) AND R502.3.1(2) FOR SPAN, SIZE SPACING, AND GRADE OF FLOOR JOISTS.

ROOF FRAMING PLAN NOTES

NOTES ARE TYPICAL UNLESS NOTE NUMBER IS INSIDE OF CIRCLE, THEN THE NOTE REFERS TO A SPECIFIC LOCATION(S) MARKED ON THE PLAN.

- PROVIDE 1/2" EXTERIOR GRADE PLYWOOD SHEATHING NAILED TO ROOF RAFTERS WITH 8d NAILS AT 6"oc AT PANEL EDGES AND 12"oc AT NON-PANEL EDGES.
- PROVIDE ADDITIONAL DEPTH TO JOISTS AS REQUIRED TO PROVIDE 1" AIR GAP TO PREVENT CONDENSATION PLUS 12" INSULATION TO PROVIDE R-38 INSULATION VALUE TO VAULTED CEILING AREA WHERE SHOWN ON PLAN WITH CROSS HATCH.
- ALL RIDGE MEMBERS SHALL BE 1" NOMINAL THICKNESS AND NOT LESS IN DEPTH THAN THE CUT END OF THE RAFTER. ALL VALLEY AND HIP MEMBERS SHALL BE 2" NOMINAL THICKNESS AND NOT LESS IN DEPTH THAN THE CUT END OF THE RAFTER.
- HIP AND VALLEY MEMBERS SHALL BE SUPPORTED AT THE RIDGE WITH A 2x6 T-BRACE TO A BEARING WALL BELOW.
- PROVIDE SOFFIT, RIDGE, AND GABLE END VENTS AS REQUIRED TO PROVIDE ADEQUATE VENTILATION FOR ROOF.
- PROVIDE PROPER FLASHING AND BUILDING PAPER UNDER SHINGLES AS REQUIRED TO PROVIDE WATER TIGHT SEAL AT ALL ROOF PENETRATIONS, RIDGES, VALLEYS, HIPS AND/OR OTHER SLOPE CHANGES.
- GUTTERS, DOWNSPOUTS, AND SPLASH BLOCKS SHALL BE PROVIDED TO INSURE ALL ROOF DRAINAGE IS DIRECTED 5 FEET MINIMUM FROM HOUSE BEFORE TOUCHING SOIL.
- ALL GABLE END WALL FRAMING SHALL BE 2x6 DOUG-FIR NO. 2 AT 16"oc.
- PROVIDE PROPER CEILING INSULATION AS REQUIRED BY GOVERNING BUILDING CODE.
- ALL ROOF FRAMING SHALL BE PRE-ENGINEERED WOOD TRUSSES SPACED AT 24"oc. ALL TRUSSES AND TRUSS GIRDERS SHALL BEAR ON EXTERIOR WALLS AND THE INTERIOR BEARING WALLS INDICATED ON THE PLAN. SHOULD THE TRUSS MANUFACTURER NEED TO MODIFY THE PROPOSED LAYOUT, THEY SHALL NOTIFY THE ENGINEER OF RECORD TO ENSURE ADEQUATE SUPPORT OF TRUSS FRAMING IS PROVIDED.
- PROVIDE OVER-BUILD FRAMING AS REQUIRED TO ACHIEVE THE DESIRED SLOPES/PROFILES.
- ROOF TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS:
TOP CHORD DEAD LOAD = 10 PSF
TOP CHORD LIVE LOAD = 20 PSF
BOTTOM CHORD DEAD LOAD = 10 PSF
BOTTOM CHORD LIVE LOAD = 20 PSF (NON CONCURRENT WITH TOP CHORD LIVE LOAD)

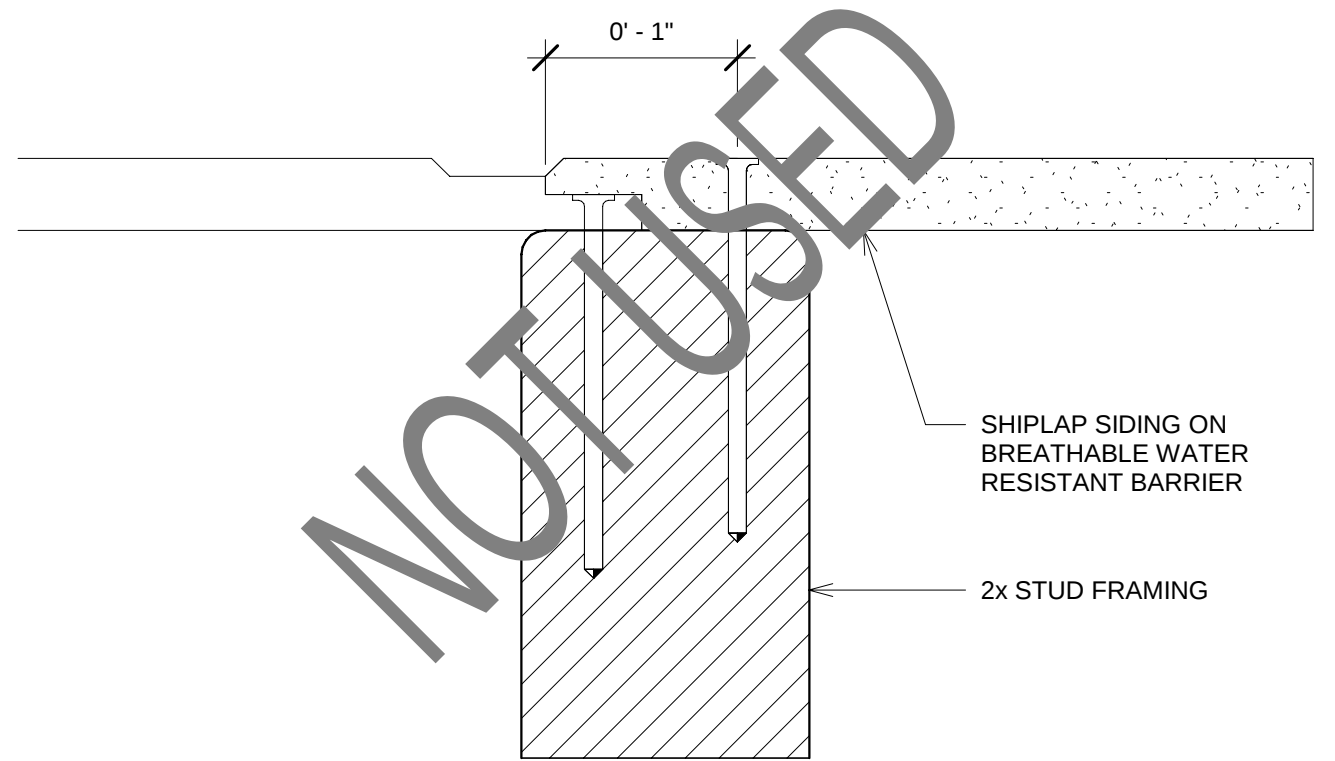
NOTE: ROOF HAS BEEN DESIGNED WITH STRUCTURAL HIPS & VALLEYS. ALL HIPS & VALLEYS TO BE BRACED PER HIP/VALLEY RAFTER TABLE. ALL HIPS & VALLEYS TO BE 2X10 MIN UNO.

NOTE: ALL HIPS, VALLEYS, RIDGES, AND ROOF BEAMS SHALL COMPLY WITH IRC R802.3 & R802.4.3 & HAVE (1) SIMPSON H2.5A AT EACH END TO RESIST UPLIFT. WHERE THE ROOF MEMBER IS SUPPORTED BY A STRUT, IN ADDITION TO THE ROOF MEMBER TO STRUT UPLIFT CONNECTION, THE STRUT SHALL ALSO BE CONNECTED TO A BEARING WALL OR BEAM BELOW WITH A SIMPSON H2.5A.

PURLIN SPAN TABLE					
PURLIN (DF #2) *	MAX SPAN				
	2x6	2x8	2x10	2x12	
2x6 RAFTERS AT 24" O.C.	4'-3"	5'-4"	6'-4"	7'-1"	
2x6 RAFTERS AT 16" O.C.	3'-11"	4'-10"	5'-10"	6'-6"	

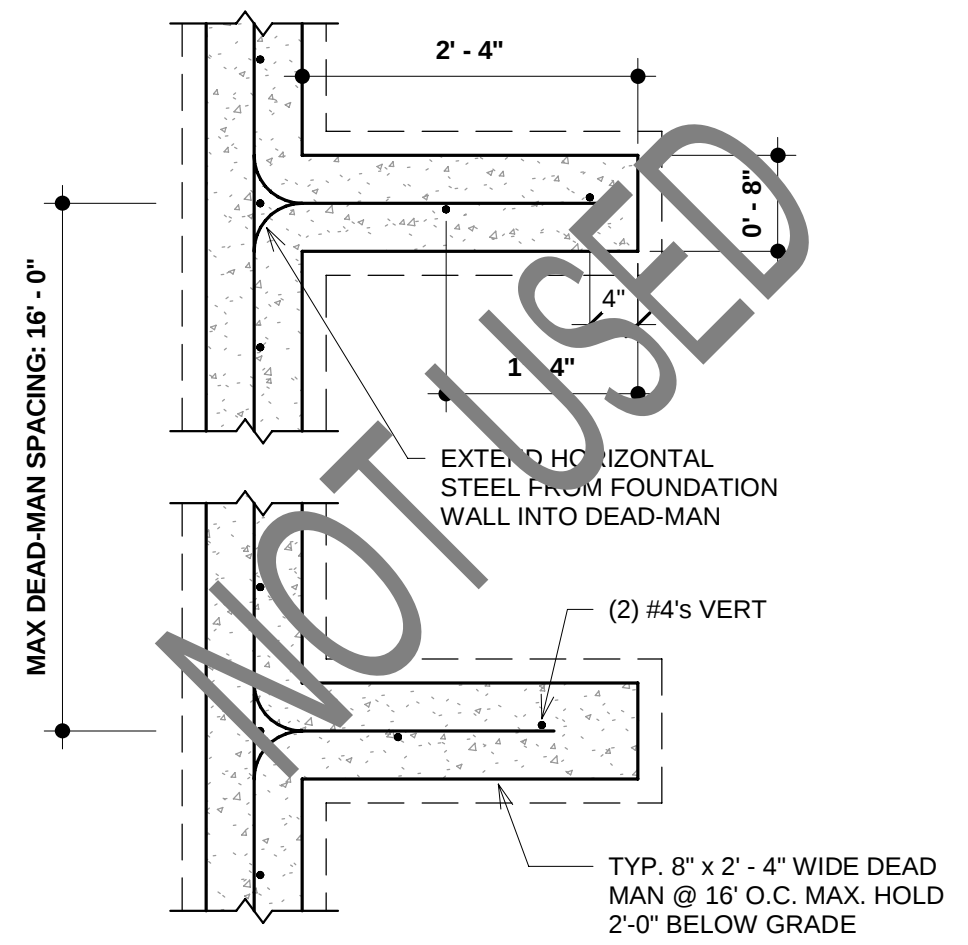
* BRACE PURLINS WITH 2x6 "T" BRACES.
ALTERNATIVELY, FOR BRACE LENGTHS LESS THAN 6'-0",
2x4 "T" BRACES MAY BE USED.

CONTRACTOR: INSTALL SHIPLAP PANELS WITH THE LONG DIRECTION ORIENTED VERTICALLY. SHIPLAP PANEL EDGES MUST BE DOUBLE NAILD, WITH ONE NAIL IN THE UNDERLAP AND ONE IN THE OVERLAP AT THE NAIL SPACING SPECIFIED FOR WOOD STRUCTURAL PANEL SHEATHING INDICATED ON THESE PLANS.

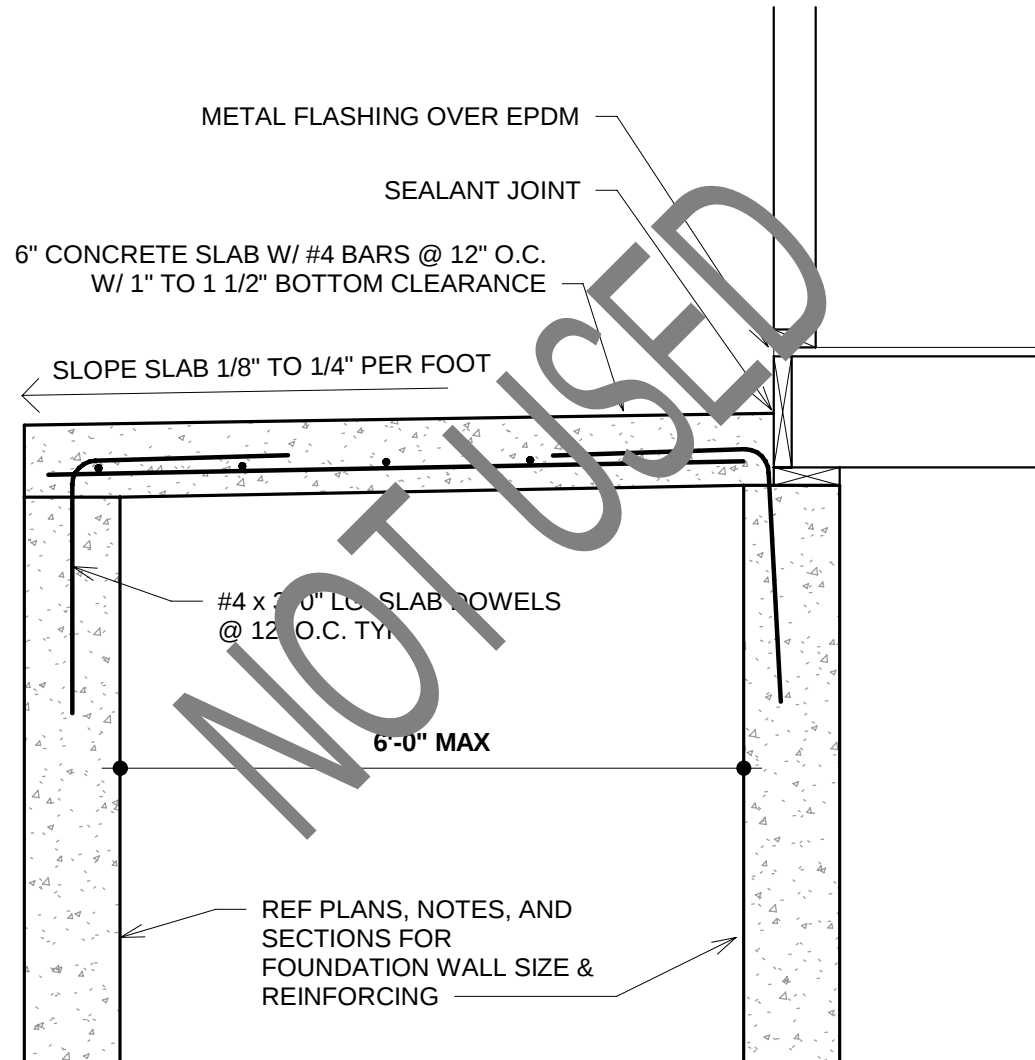


12 VERTICAL SHIPLAP SIDING PANEL JOINT
SCALE: 1/2" = 1'-0"

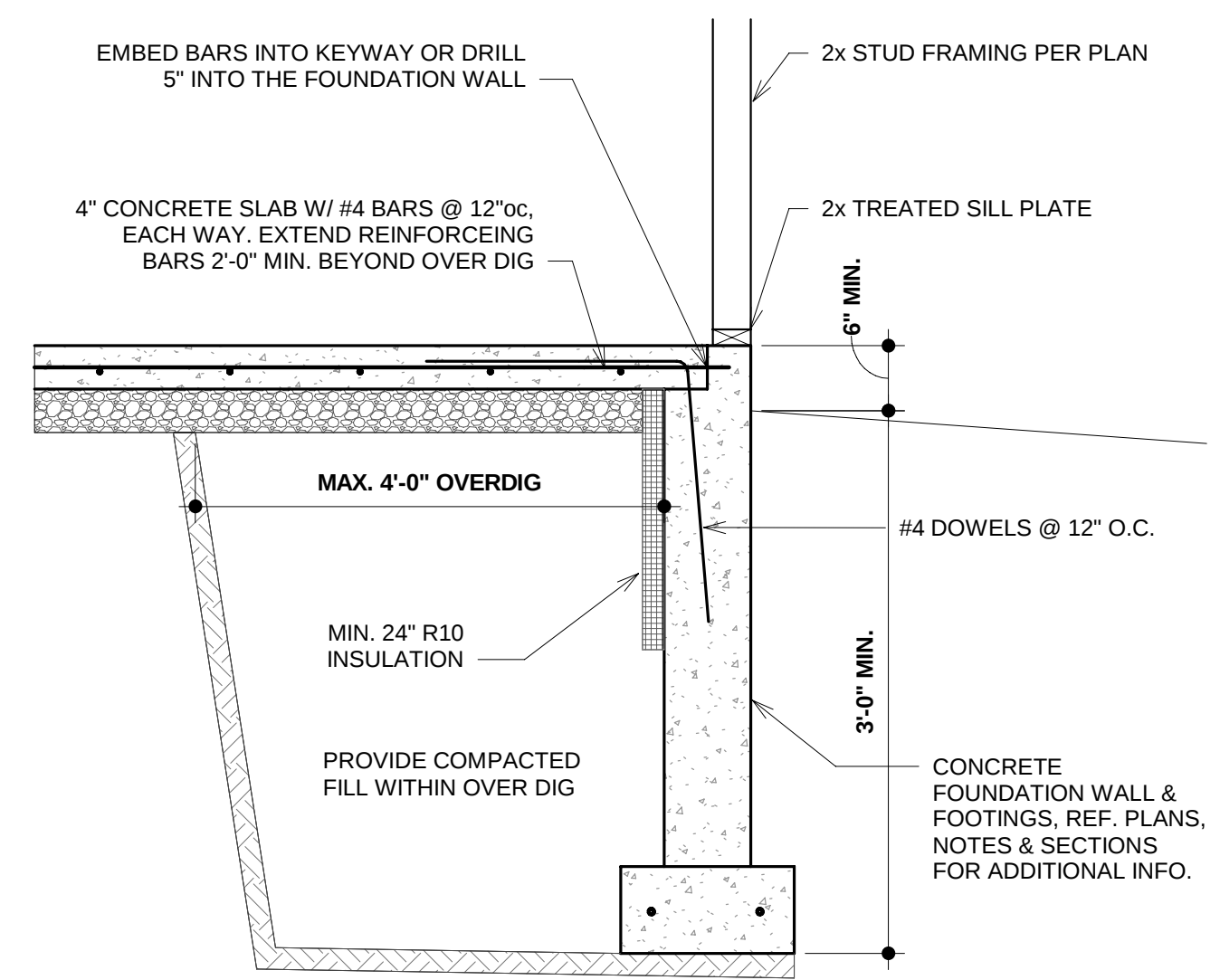
THIS DETAIL APPLICABLE ONLY IN JOHNSON COUNTY, KS FOR WALLS TALLER THAN 5'-0"



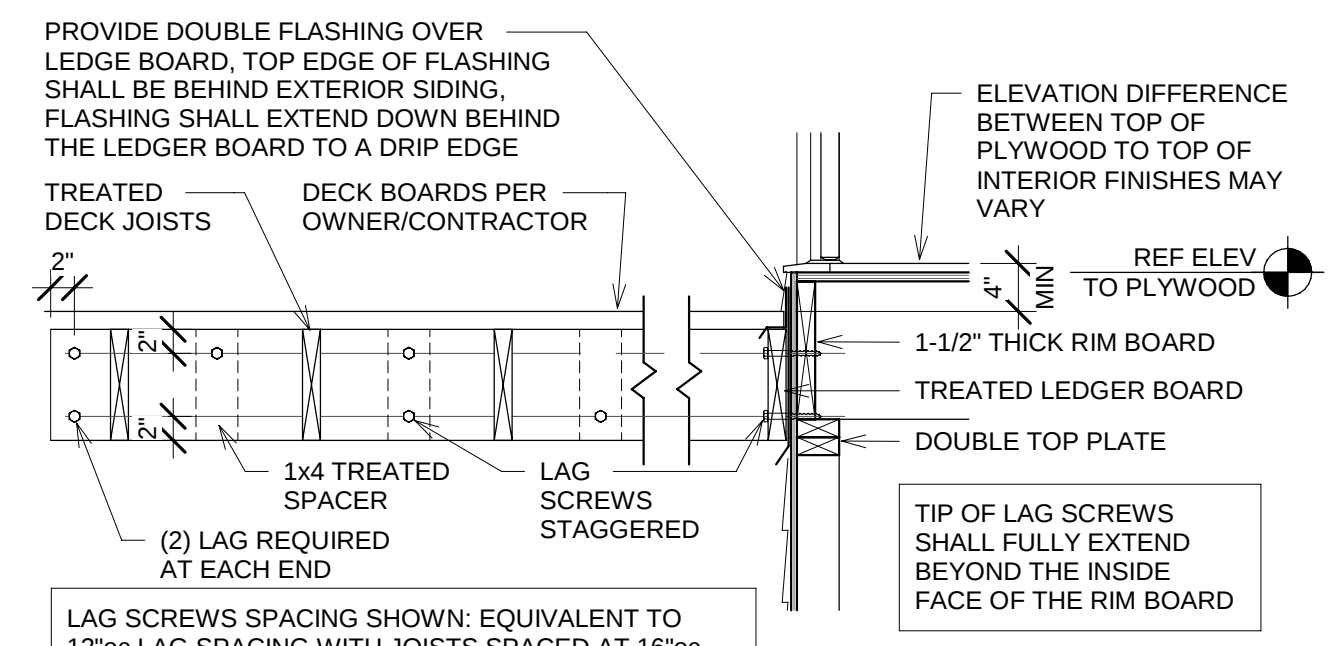
9 TYP. DEAD MAN SECTION
SCALE: 3/4" = 1'-0"



6 SUSPENDED PORCH STOOP
SCALE: 3/4" = 1'-0"

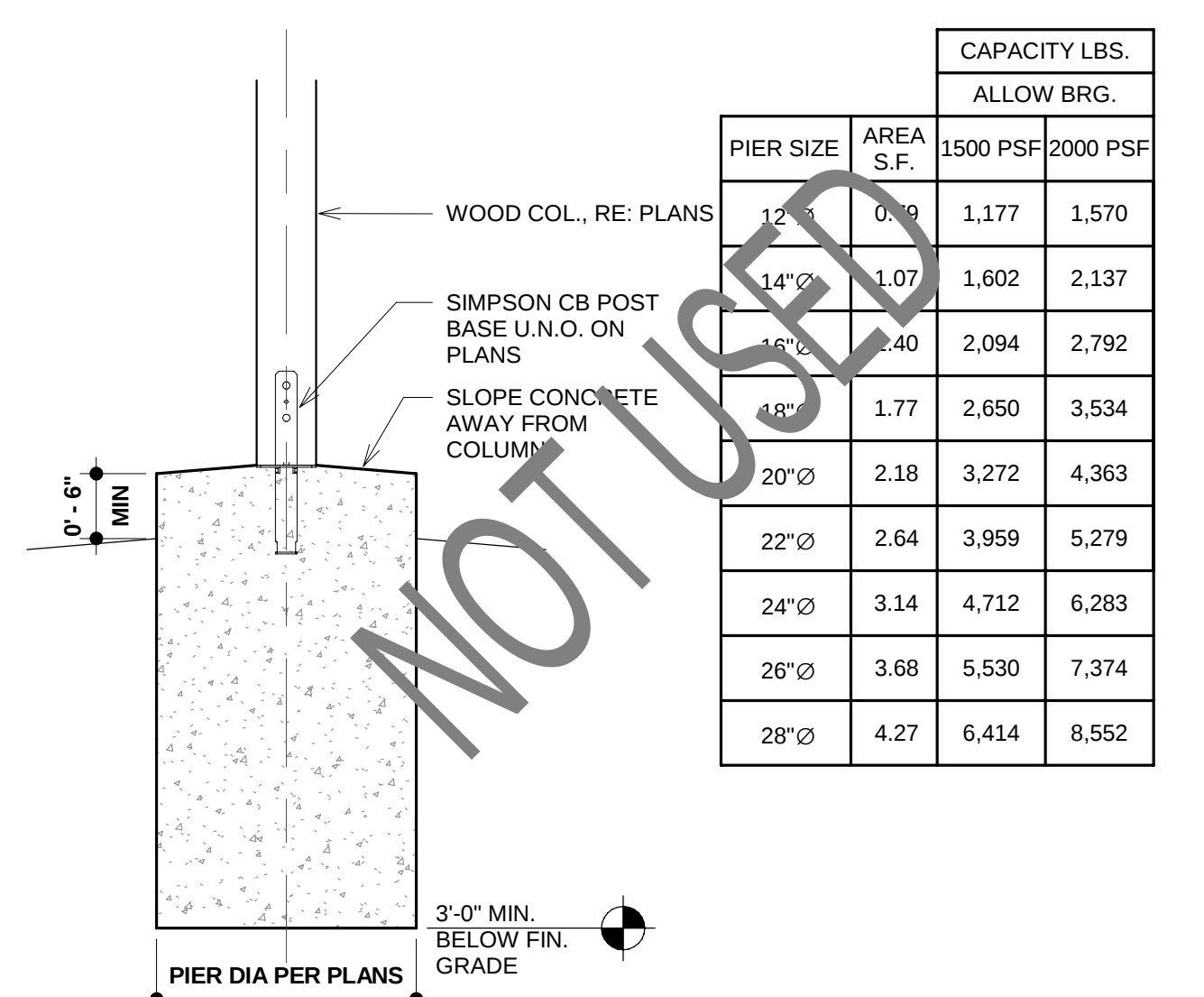


3 OVER DIG SECTION AT BASEMENT SLAB
SCALE: 3/4" = 1'-0"

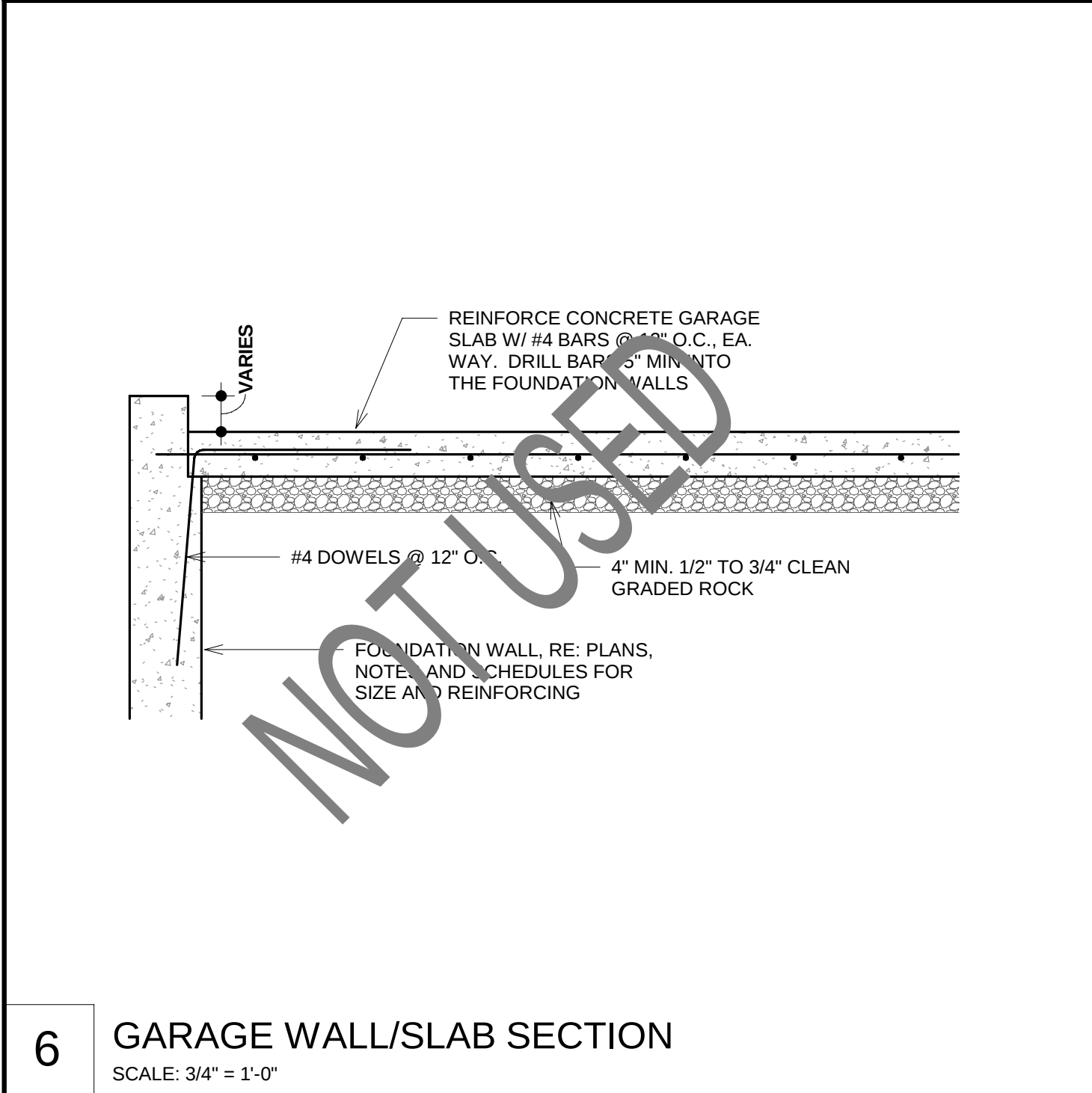


LEDGER FASTENER SCHEDULE							
CONNECTION DETAILS	JOIST SPAN						
	UP TO 6'	6'-1" TO 8'	8'-1" TO 10'	10'-1" TO 12'	12'-1" TO 14'	14'-1" TO 16'	16'-1" TO 18'
1/2" Ø LAG SCREWS W/ 1/2" MAX SHEATHING	30"oc	23"oc	18"oc	15"oc	13"oc	11"oc	10"oc
EQUIVALENT LAG SPACING FOR JOISTS @ 16"oc (SEE ROW ABOVE)	EVERY OTHER JOIST SPACES	(2) EVERY THIRD JOIST SPACE	EACH JOIST SPACE		EACH JOIST SPACE W/ (2) EVERY OTHER SPACE		(2) IN EACH JOIST SPACE

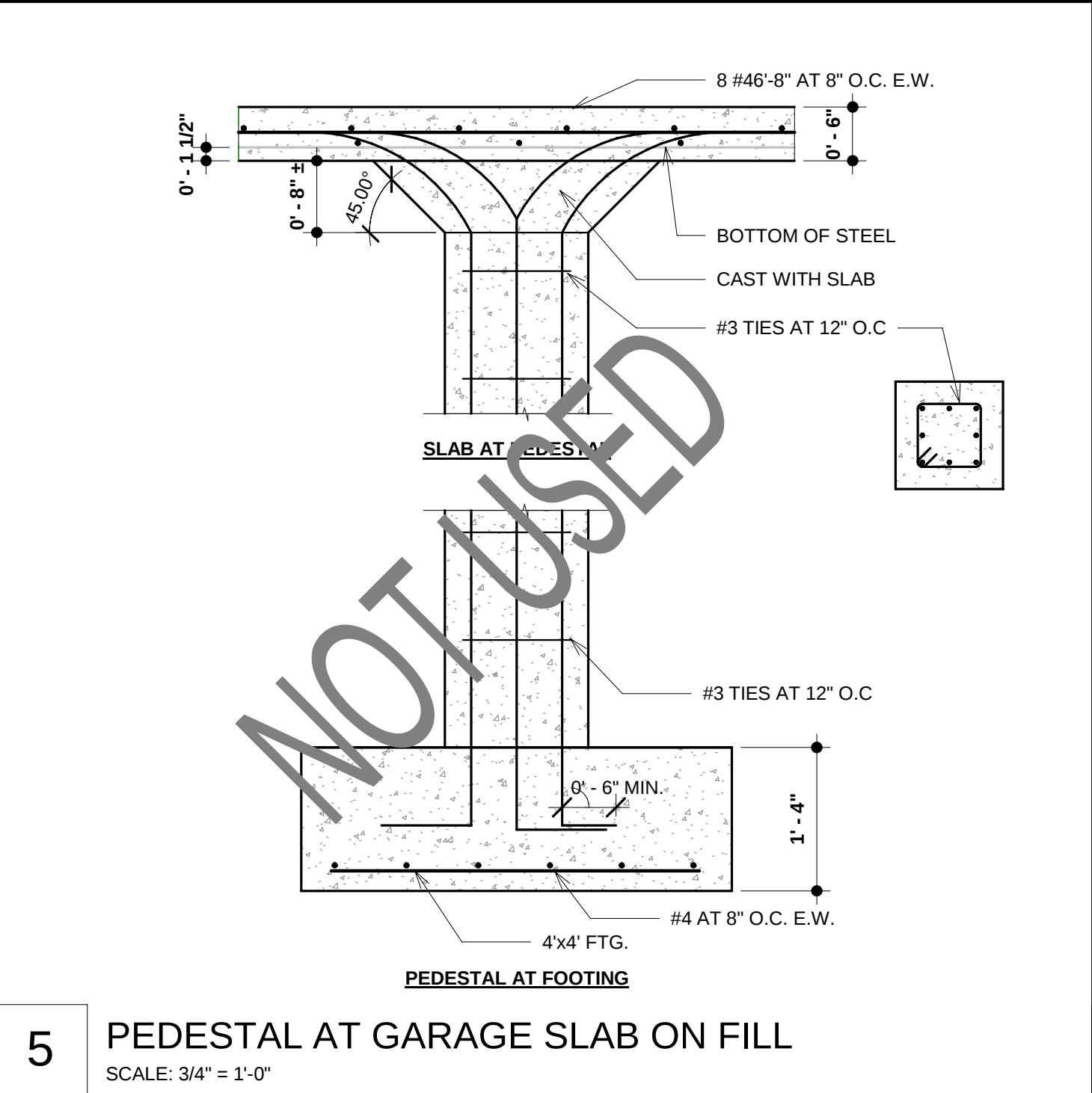
11 DECK LEDGER ATTACHMENT II
SCALE: 3/4" = 1'-0"



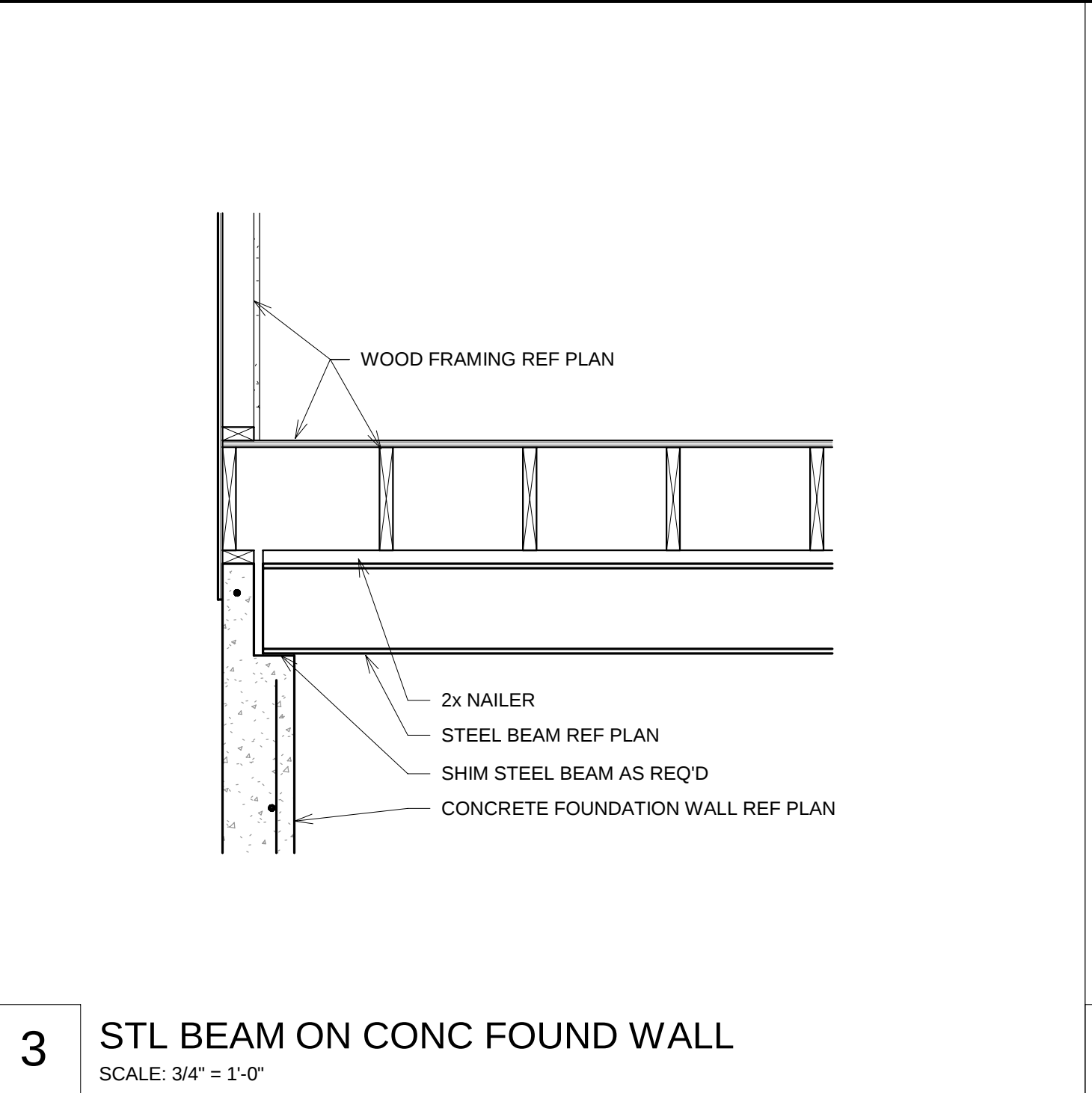
PIER SIZE	AREA S.F.	CAPACITY LBS. ALLOW BRG.</
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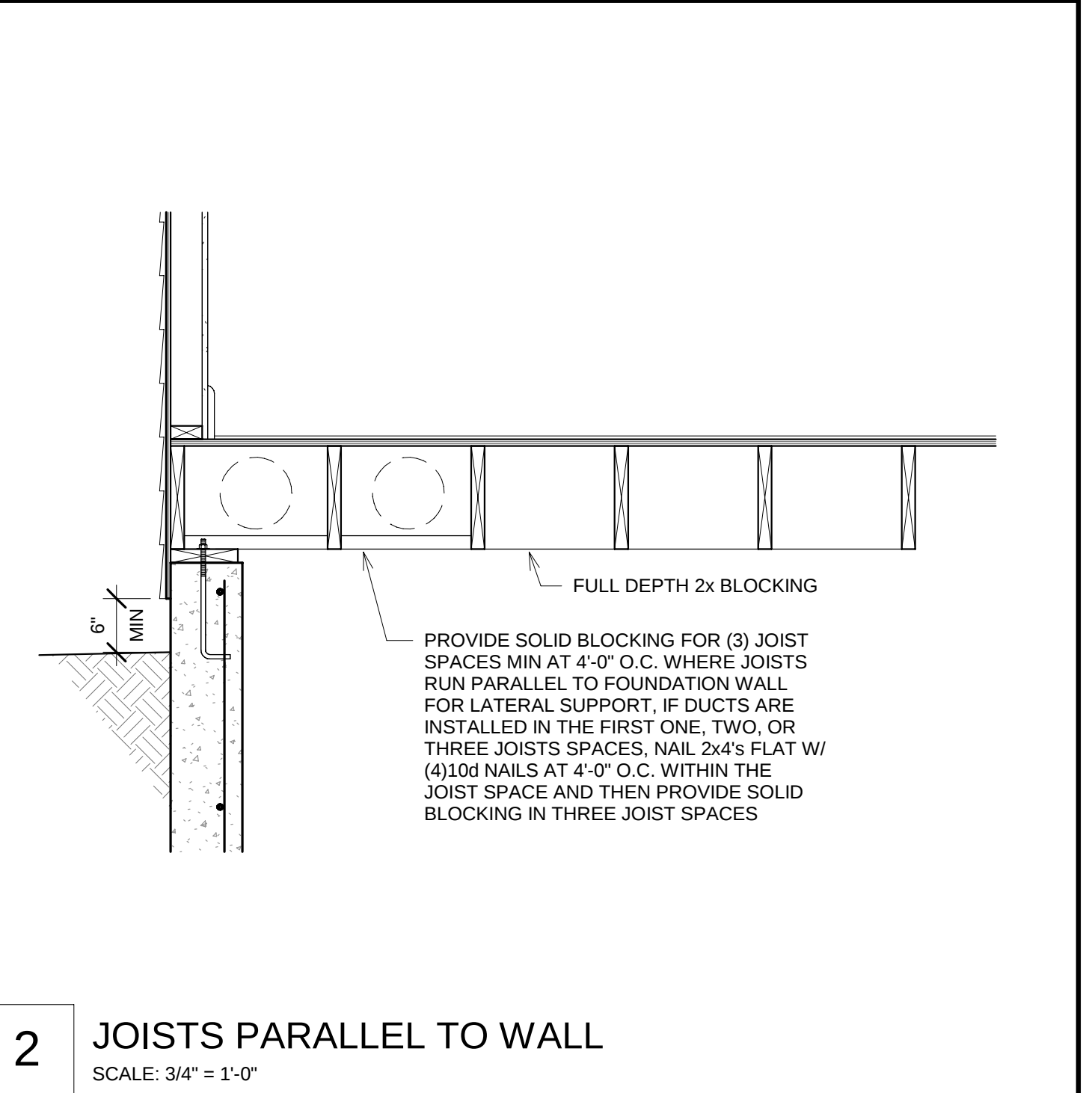
6 GARAGE WALL/SLAB SECTION
SCALE: 3/4" = 1'-0"



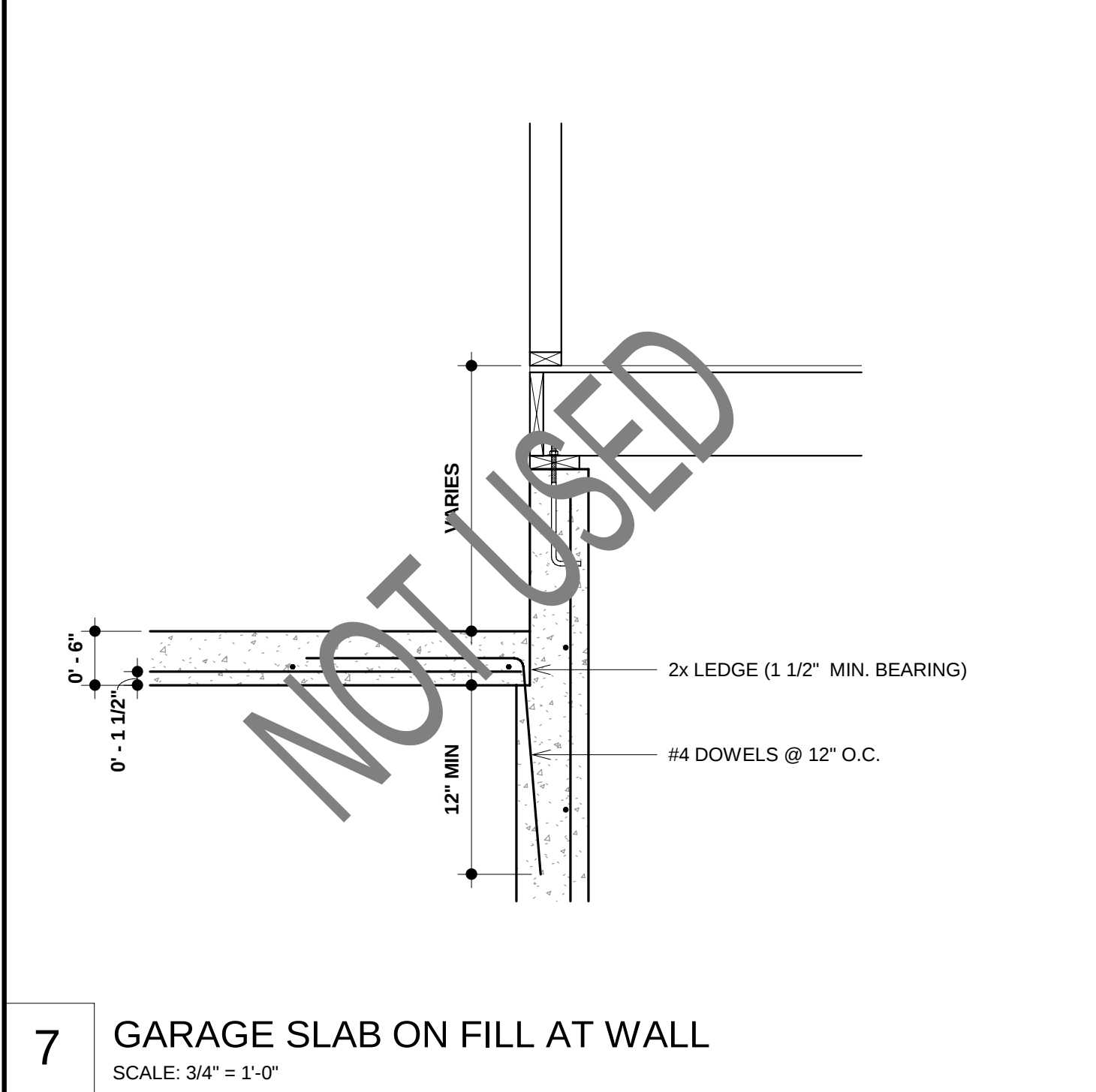
5 PEDESTAL AT GARAGE SLAB ON FILL
SCALE: 3/4" = 1'-0"



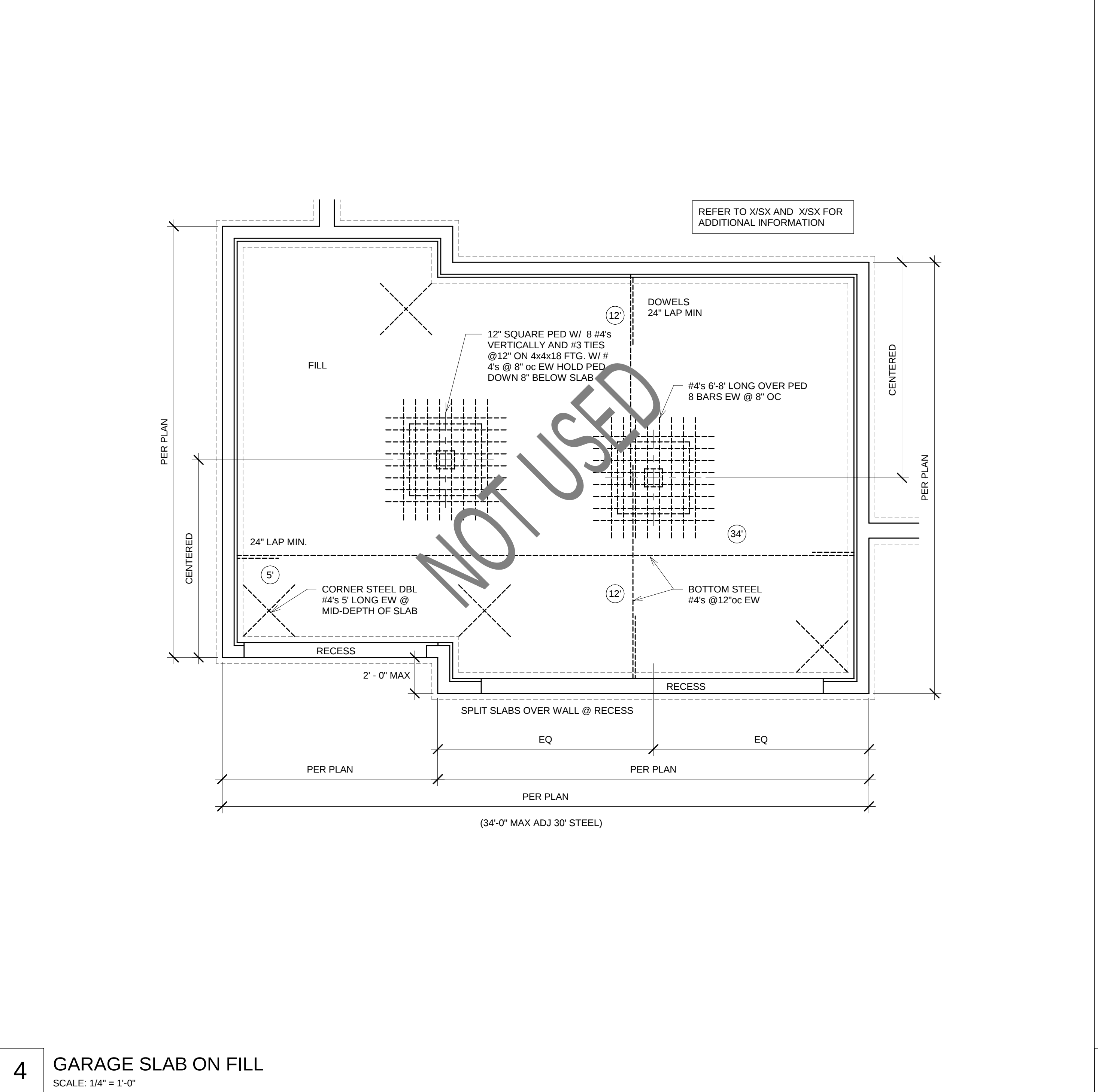
3 STL BEAM ON CONC FOUND WALL
SCALE: 3/4" = 1'-0"



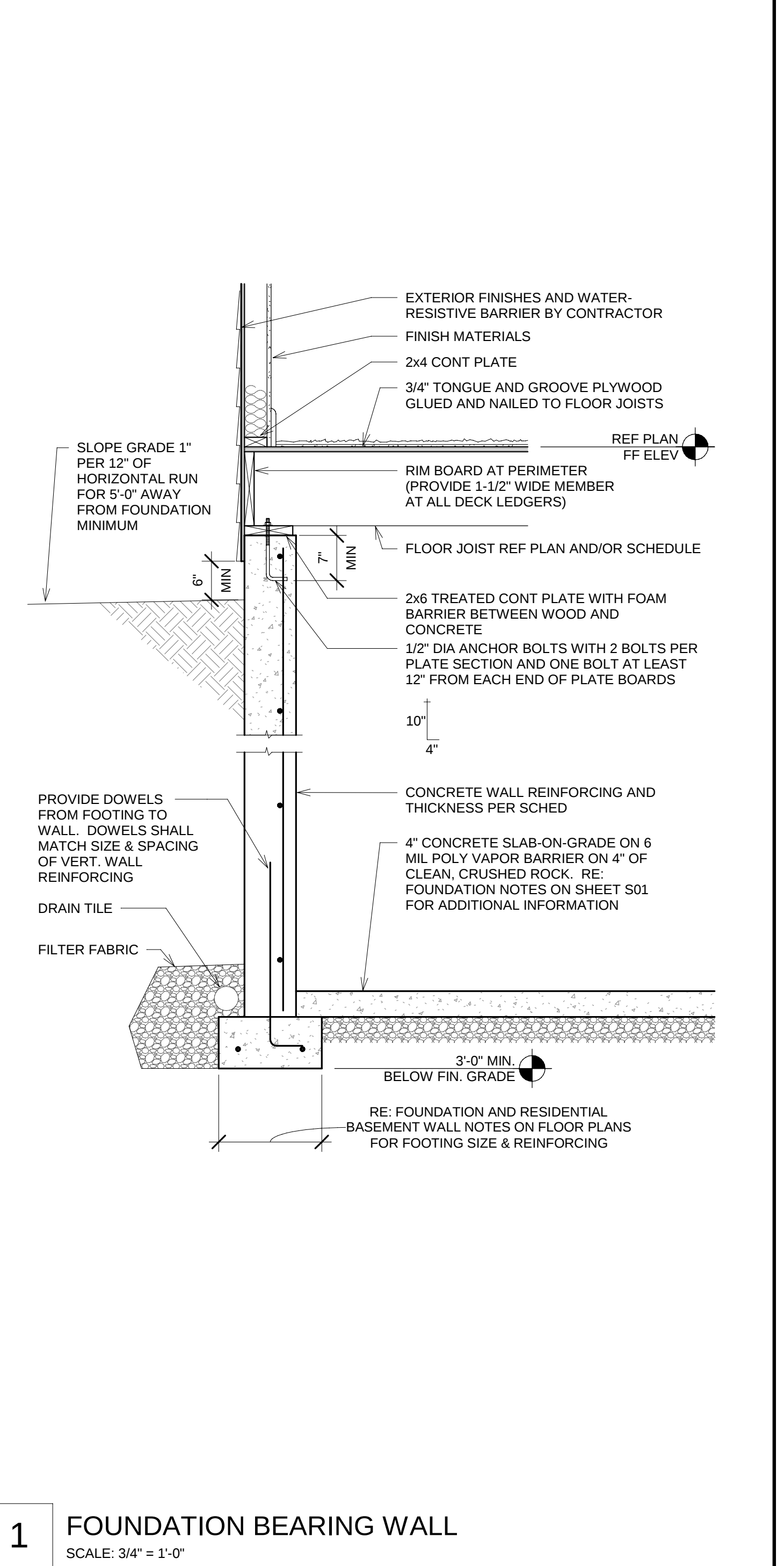
2 JOISTS PARALLEL TO WALL
SCALE: 3/4" = 1'-0"



7 GARAGE SLAB ON FILL AT WALL
SCALE: 3/4" = 1'-0"



4 GARAGE SLAB ON FILL
SCALE: 1/4" = 1'-0"



1 FOUNDATION BEARING WALL
SCALE: 3/4" = 1'-0"

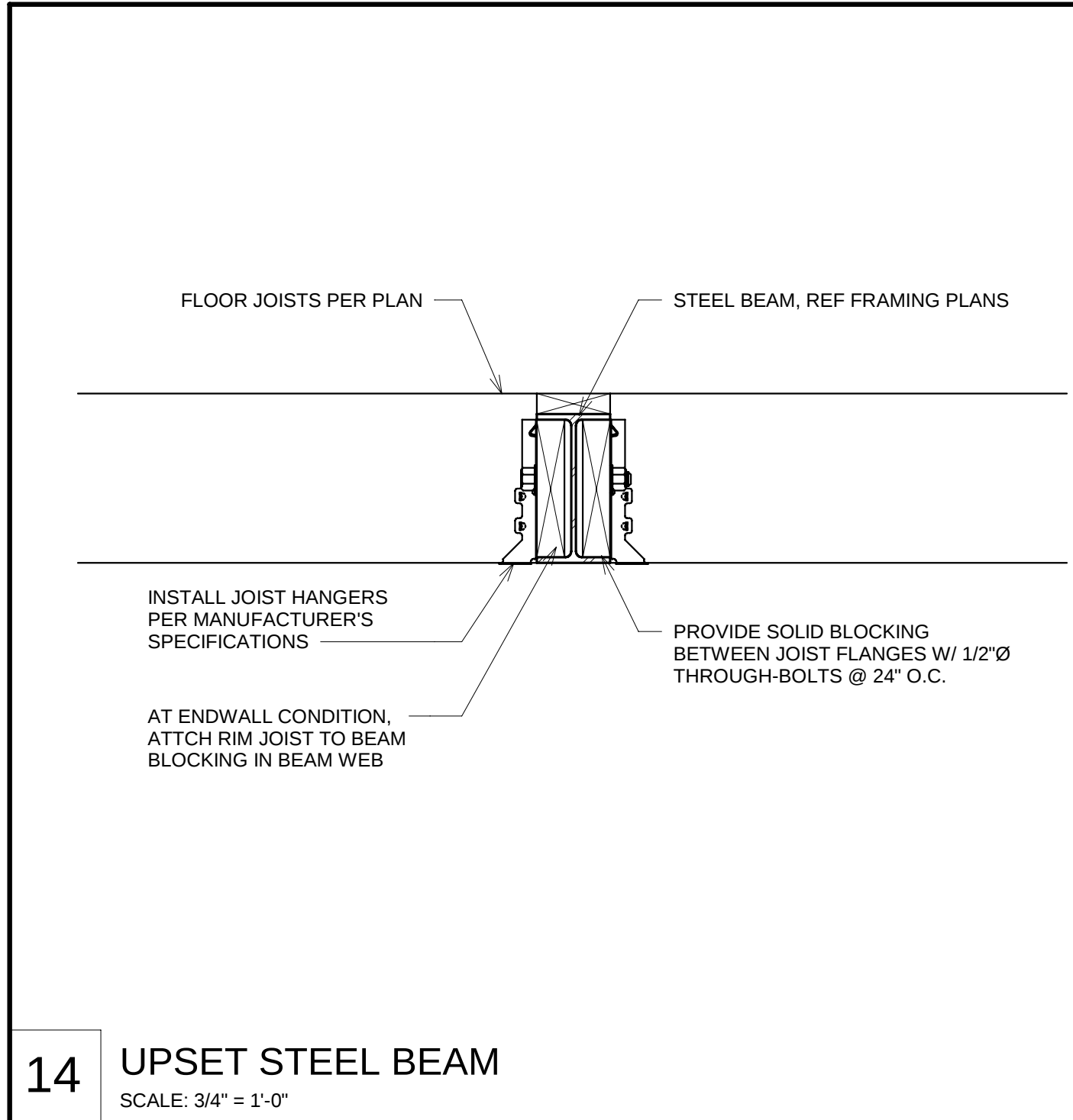
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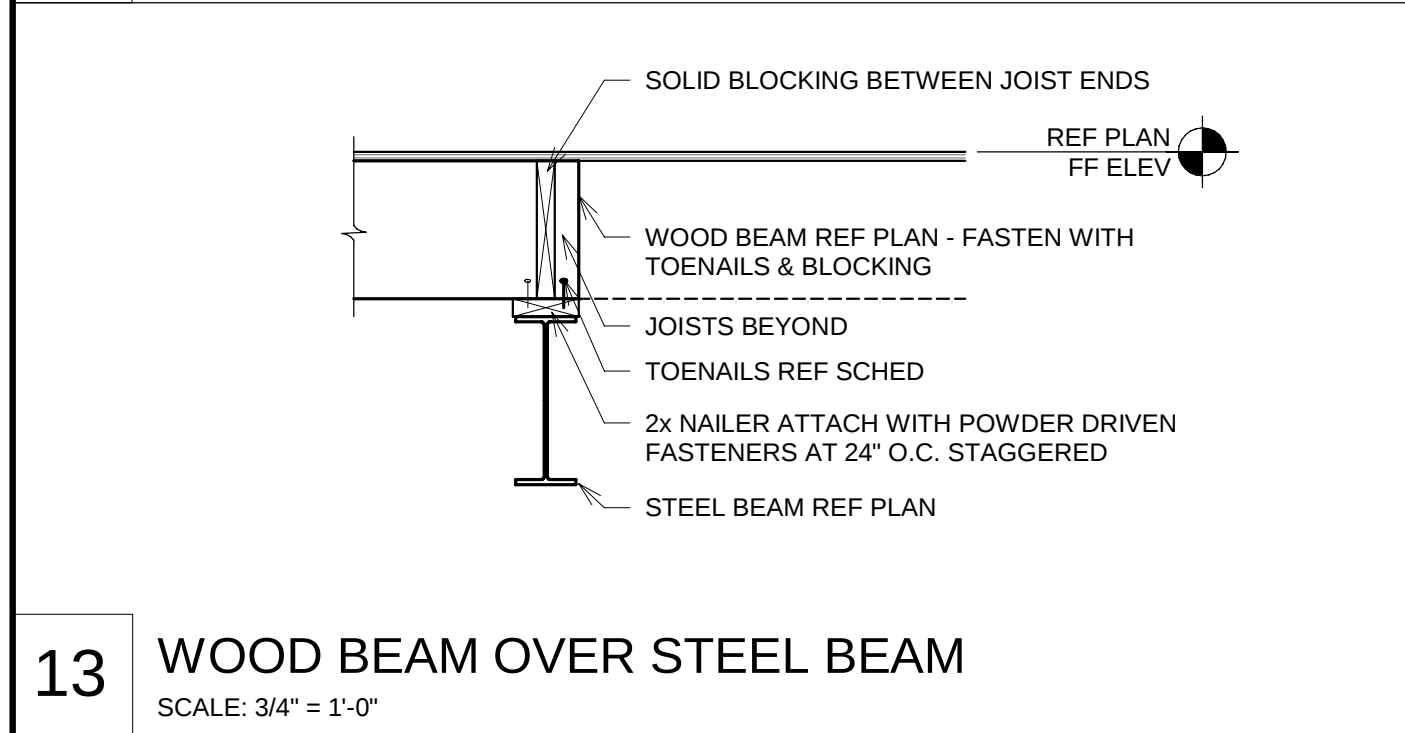
STATE OF MISSOURI
BRANDON
SCHWABAUER
NUMBER
PE-2015003020
09/12/25
PROFESSIONAL ENGINEER

PROJECT INFORMATION
HOUSE ADDITION
4090 SW PRYOR ROAD
LEE'S SUMMIT, MISSOURI 64082
RACHEL AND DANIEL DERCHER

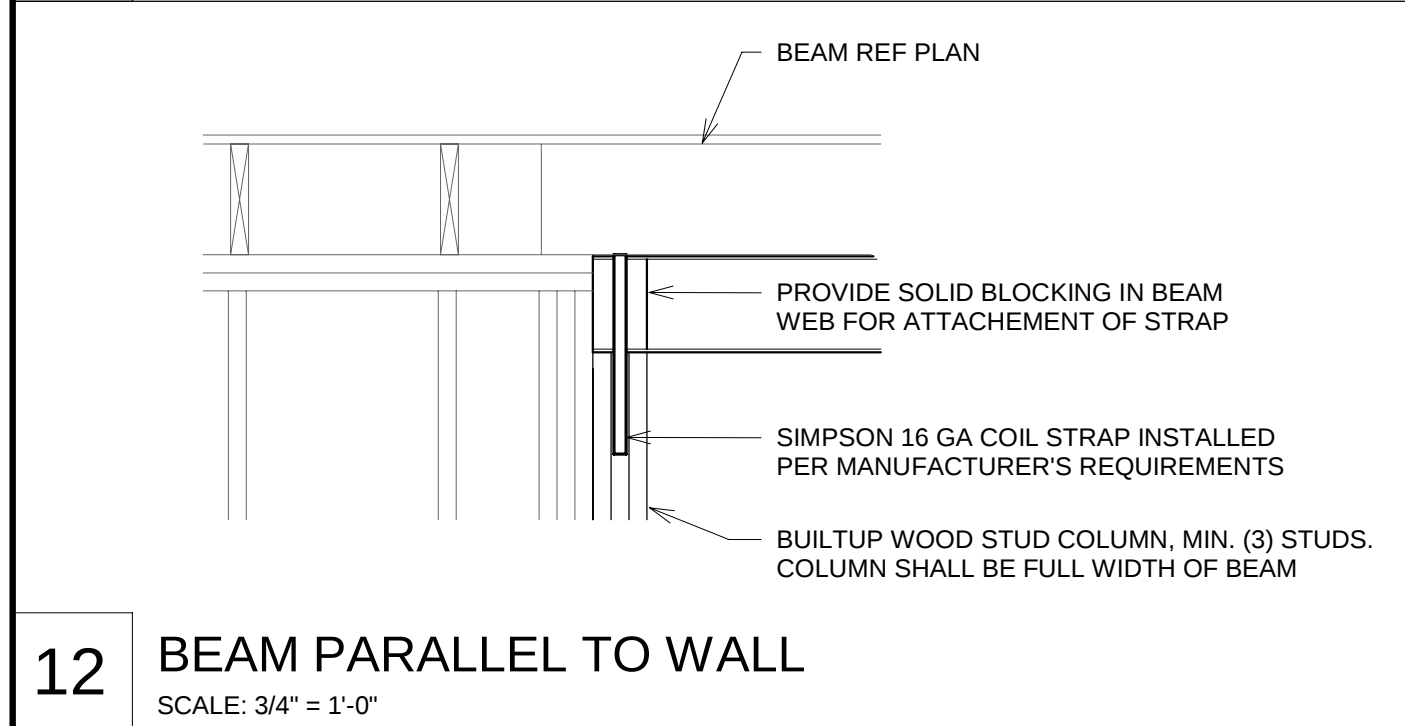
ISSUES & REVISIONS		
#	DATE	DESCRIPTION
	8/29/2025	PERMIT



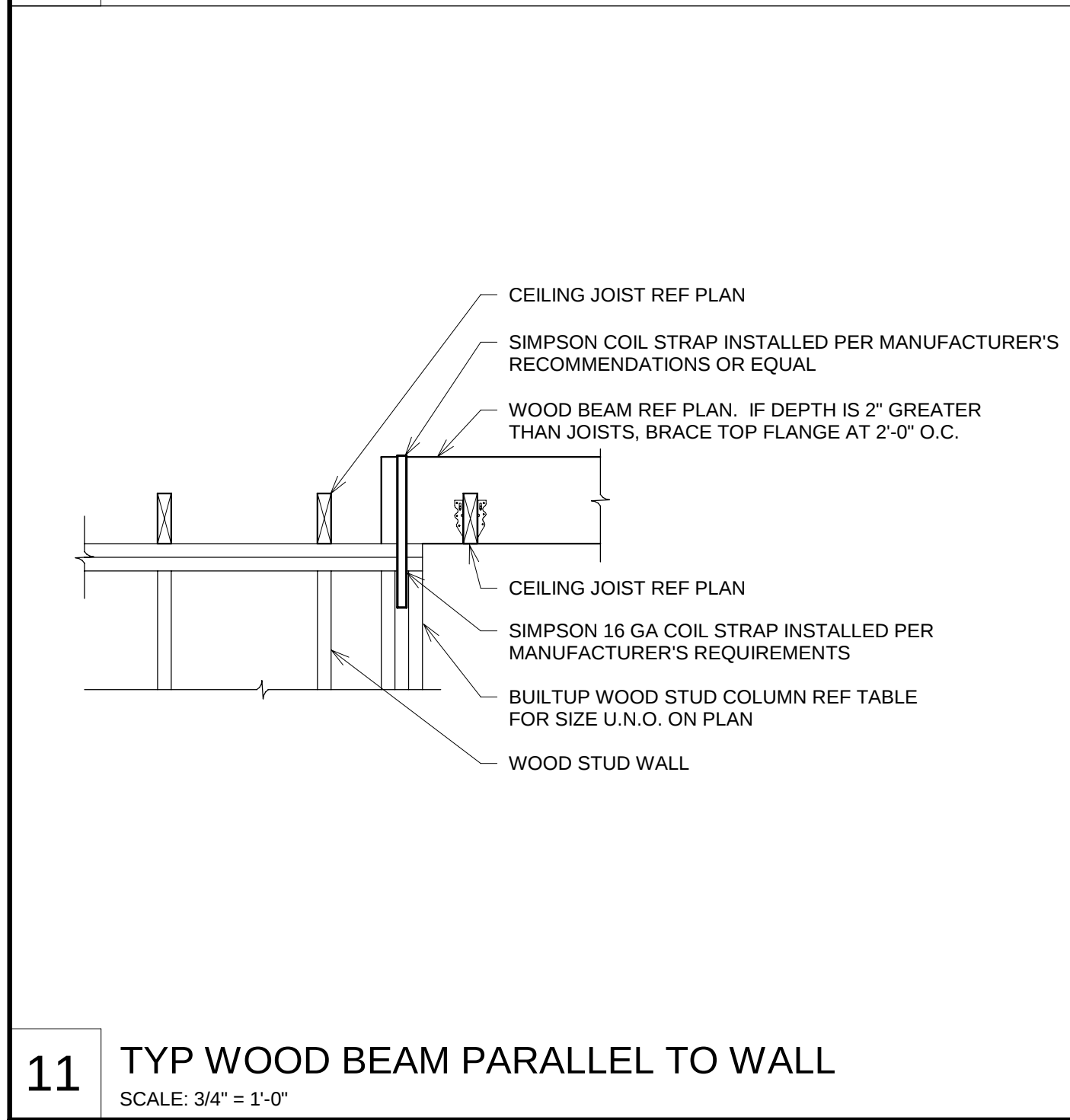
14 UPSET STEEL BEAM
SCALE: 3/4" = 1'-0"



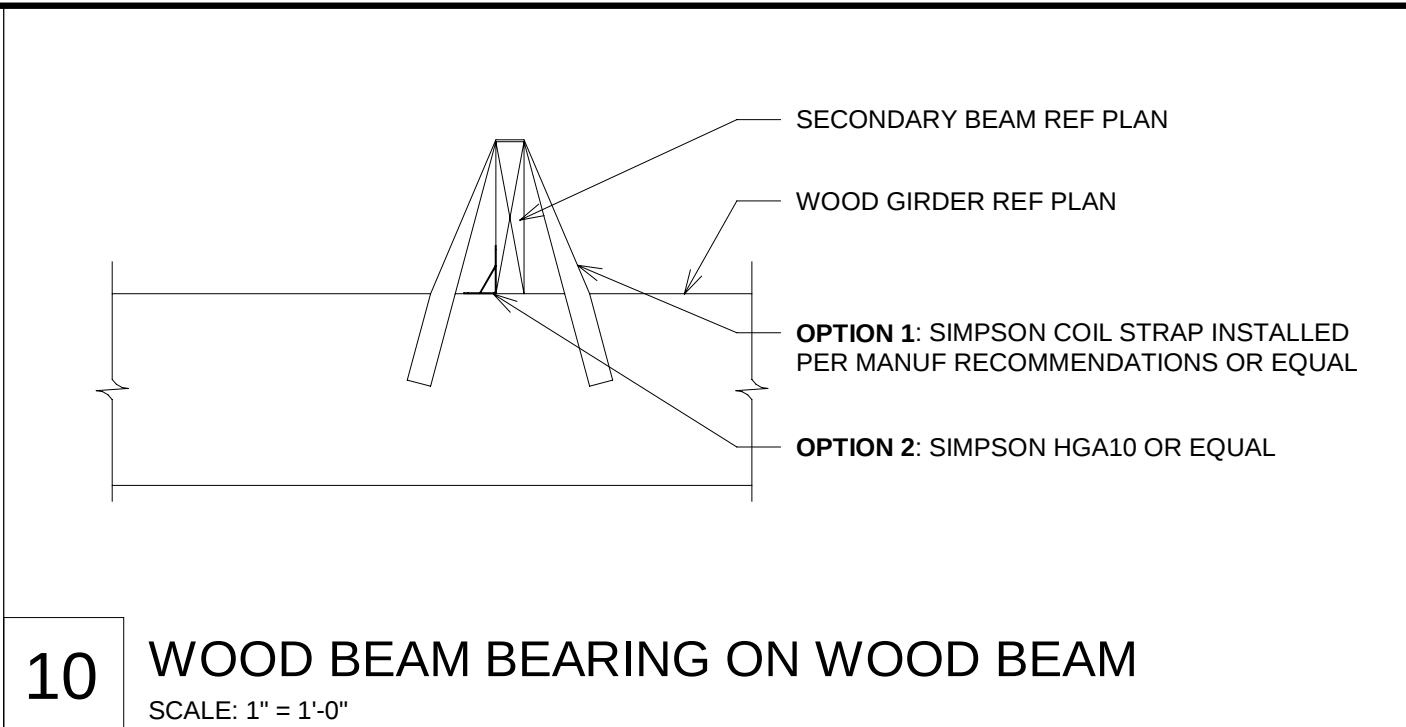
13 WOOD BEAM OVER STEEL BEAM
SCALE: 3/4" = 1'-0"



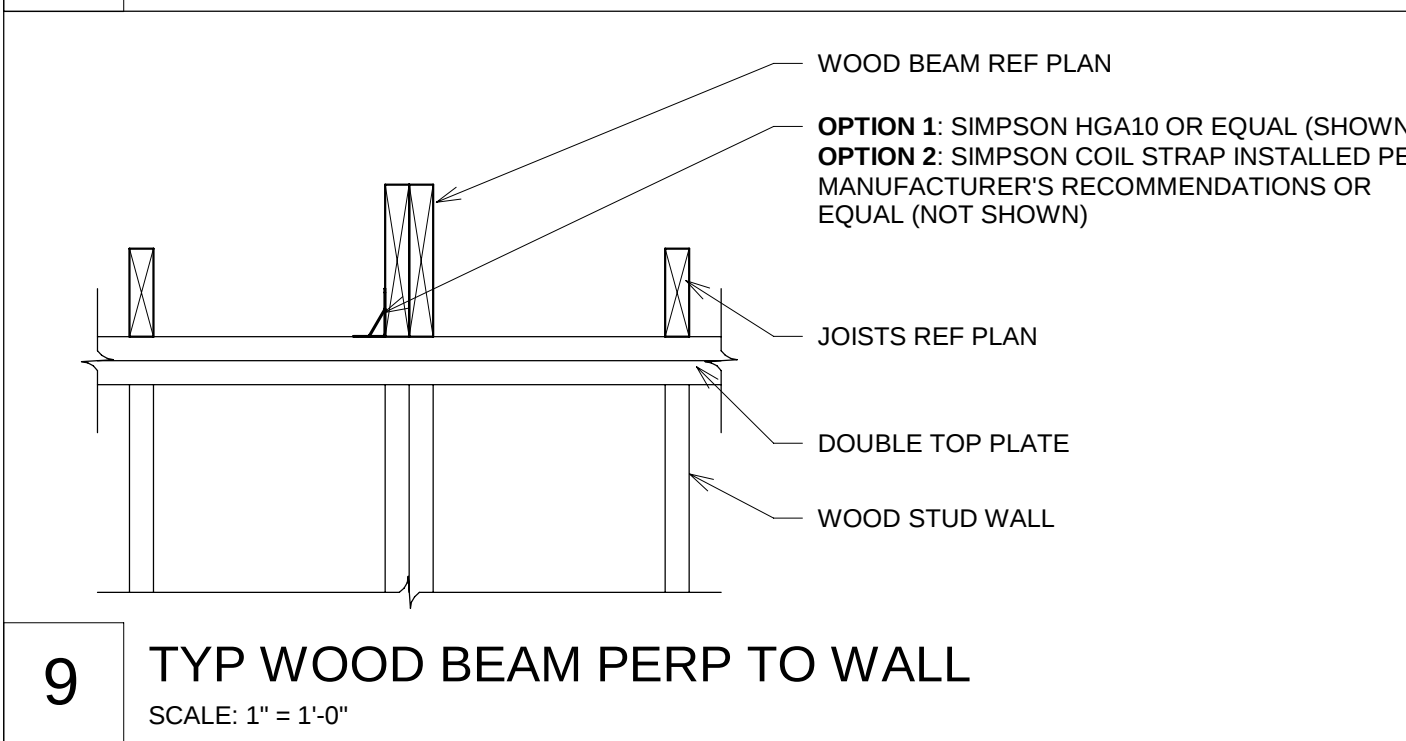
12 BEAM PARALLEL TO WALL
SCALE: 3/4" = 1'-0"



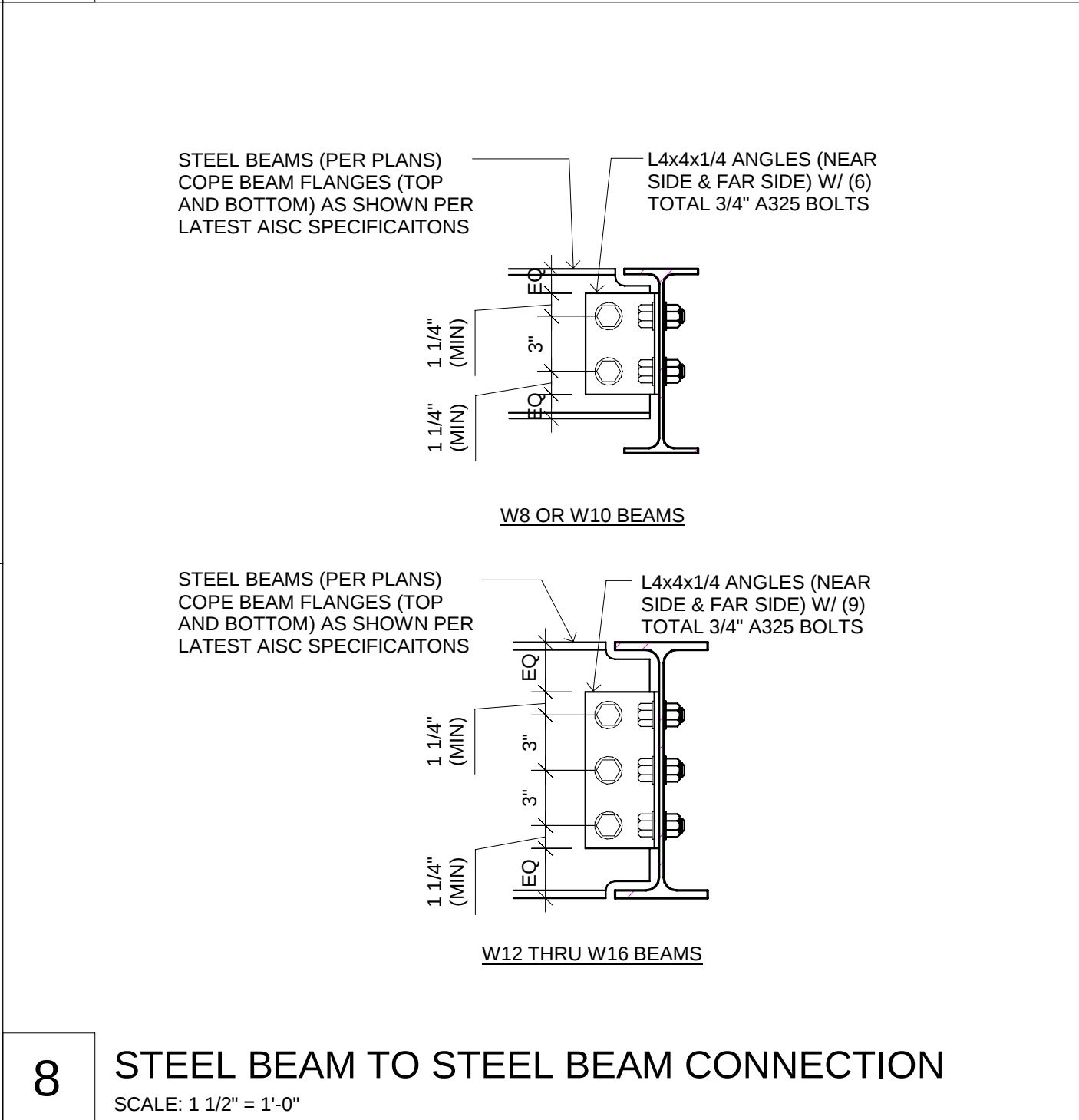
11 TYP WOOD BEAM PARALLEL TO WALL
SCALE: 3/4" = 1'-0"



10 WOOD BEAM BEARING ON WOOD BEAM
SCALE: 1" = 1'-0"



9 TYP WOOD BEAM PERP TO WALL
SCALE: 1" = 1'-0"



FASTENING SCHEDULE				IRC 2018 TABLE R602.3(1)		ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER (a)(b)(c)	SPACING AND LOCATION
ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER (a)(b)(c)	SPACING AND LOCATION						
Roof									
1	Blocking between ceiling joists or rafters to top plate	4-8d box (2-1/2" × 0.113") or 3-8d common (2-1/2" × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails	Toe nail	21	Joist to sill, top plate or girder	4-8d box (2-1/2" × 0.113"); or 3-8d common (2-1/2" × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails	Toe nail		
				22	Rim joist, band joist or blocking to sill or top plate (roof applications also)	8d box (2-1/2" × 0.113")	4" o.c. toe nail		
				23	1" × 6" subfloor or less to each joist	8d common (2-1/2" × 0.131"); or 10d box (3" × 0.128"); or 3" × 0.131" nails	6" o.c. toe nail		
2	Ceiling joists to top plate	4-8d box (2-1/2" × 0.113"); or 3-8d common (2-1/2" × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails	Per joist, toe nail	24	2" subfloor to joist or girder	3-16d box (3-1/2" × 0.135"); or 2-16d common (3-1/2" × 0.162")	Blind and face nail		
3	Ceiling joist not attached to parallel rafter, laps over partitions (see Section R802.5.2 and Table R802.5.2)	4-10d box (3" × 0.128"); or 3-16d common (3-1/2" × 0.162"); or 4-3" × 0.131" nails	Face nail	25	2" planks (plank & beam—floor & roof)	3-16d box (3-1/2" × 0.135"); or 2-16d common (3-1/2" × 0.162")	At each bearing, face nail		
4	Ceiling joist attached to parallel rafter (heel joint) (see Section R802.5.2 and Table R802.5.2)	Table R802.5.2	Face nail	26	Band or rim joist to joist	3-16d common (3-1/2" × 0.162") 4-10 box (3" × 0.128"), or 4-3" × 0.131" nails; or 2 staples, 1" crown, 16 ga., 1-3/4" long	End nail		
5	Collar tie to rafter, face nail or								

ROOF RAFTER SCHEDULE						
GRADE	MEMBER SIZE / SPACING	MAX SPAN CEILING JSTS AT TOP PLATE	MAX SPAN Hc/Hr = 0.16	MAX SPAN Hc/Hr = 0.20	MAX SPAN Hc/Hr = 0.25	MAX SPAN Hc/Hr = 0.33
#2 DF/L	2x6 / 16"oc	14'-1"	12'-8"	11'-8"	10'-8"	9'-5"
#2 DF/L	2x8 / 16"oc	18'-2"	16'-4"	15'-1"	13'-9"	12'-2"
#2 DF/L	2x10 / 16"oc	22'-3"	20'-0"	18'-5"	16'-10"	14'-10"
#2 DF/L	2x12 / 16"oc	25'-9"	23'-2"	21'-4"	19'-7"	17'-3"
SPANS ABOVE ARE FOR ROOF LIVE LOAD OF 20 PSF AND DEAD LOAD OF 10 PSF WITH CEILINGS ATTACHED TO RAFTERS. RE: TABLES R802.5.1(1) THROUGH R802.5.1(8) FOR ADDITIONAL RAFTER SPAN INFORMATION.						
THE ROOF FRAMING ON THIS HOME UTILIZES RAFTERS SPACED AT 16" ON CENTER IN EXPOSURE B WITH A ROOF SPAN LESS THAN 42' ON IN 90 MPH WIND ZONE. THEREFORE THE UPLIFT FORCE ON THE RAFTER IS LESS THAN 200 LBS. AND CAN BE CONNECTED PER TO THE WALL FRAMING PER TABLE 602.3(1) (ON SHEET 6.0).						

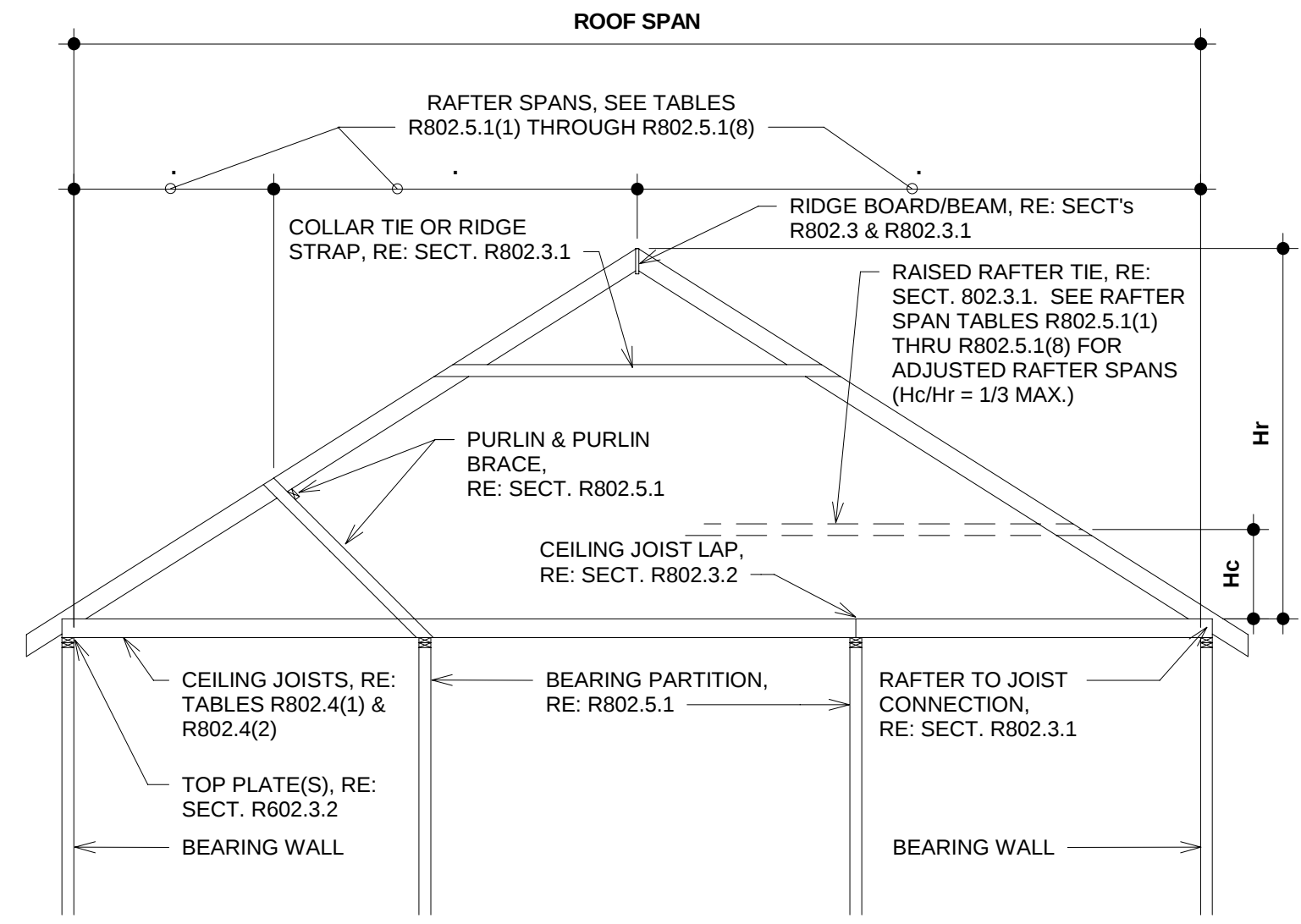


		TABLE R802.5.1(9) RAFTER/CEILING JOIST HEEL JOINT CONNECTIONS (a,b,c,d,e,f,g)																			
RAFTER SLOPE	RAFTER SPACING	GROUND SNOW LOAD (PSF)																			