

MIKE MULLER GABLE ADDITION
437 MEADOWS DRIVE
ALPINE, WYOMING

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PROJECT NO.
222039
SHEET NO.
A1
OF ONE

- GENERAL STRUCTURAL NOTES (DRAWING NOTES)
- A. CODES AND SPECIFICATIONS
- International Building Code (IBC) - 2021 Edition
 - ACI 318-19 Building Code Requirements for Reinforced Concrete
 - ANSI/AWC National Design Specification (NDS) & Suppl. for Wood Const. - 2018 Edition
 - ASCE 7-16 With Supplement 1 Min. Design Loads for Buildings and other Structures.
- B. DESIGN LOADS UNIFORM (PSF)
1. Floor Loads
- a. Deck Live = 60
- Dead = 10
2. Roof Loads
- a. Live Load 20 PSF
- b. Snow Load
- Design Snow Load 100.0 PSF
- Flat Roof Snow Load Pf = 100.1
- Ce = 1.0; Ct = 1.0; Is = 1.0
- Ground Snow Load 143.0
- Sloped Roof Ps = 100.1; Cs = 1.0
- c. Rain Load = N/A
3. Lateral Loads
- a. Wind Load 115 MPH (3 Sec Gust) Risk Cat= II; EXP = C
- Encl. Cat. - Open Building
- Internal Pressure Coef. +/- 0.00
- Components & Cladding - 13.0PSF
- b. Seismic Load: Risk Cat: II Importance Factor = 1.0
- Ss = 111.3% G; S1 = 34.3% G
- Site Class = D
- Sds = 0.880; Sd1 = 0.448
- Seismic Design Category = D
- Basic Seismic System = Bearing wall System
- Design Base Shear V = 0.137 W
- Seismic Response Coef. Cs = 0.137
- Response Modification Factor R = 6.5
- Analysis Procedure = Equivalent Lateral - Force Analysis

- C. FOUNDATIONS
- Bearing pressure taken as 1500 PSF for column and wall footings, based on a sand, silty sand, clayey sand, silty gravel, and clay gravel (Table 1806.2, Class of Materials #4).
 - Notify Engineer if conditions encountered are different.
 - Bear footing on same type of undisturbed soil or rock throughout the entire structure.
- D. MATERIALS
1. Dimensional Lumber #2 Douglas Fir
2. Glulam Beams (GLB) 24FV4
3. Concrete f'c - Figs. Walls 3500 PSI Exposure Class = F1 Air Content 5%
- Garage & Exterior Slabs 4500 PSI Exposure Class = F2 Air Content 6%
- Max Water-Cement Ratio 0.55
- Max Aggregate size 3/4"
- Reinforcing Steel ASTM A615 - Grade 60
- Anchor Bolts A36 / F1554 GRADE 36
- E. REINFORCED CONCRETE
- Concrete shall be of ready mix type conforming to ASTM C94.
 - Portland Cement to comply with ASTM C150
 - Comply with ACI 305 Cold Weather Concrete standards if the mean daily temperature is expected to drop below 40° F for 3 or more successive days. Place no concrete against frozen earth.
 - Comply with ACI 305 Hot Weather Concrete Standards.
 - Conduct all compression tests according to ACI Standard Recommended Practice for Evaluation of Compression Test Results of Field Concrete (ACI 214)
 - Control joints in large areas of slab on grade shall be placed in checkerboard fashion in lengths not to exceed 20 feet in any direction.
 - All construction joints shall be located so as not to impair the strength of the structure. Unless noted on the drawings, all reinforcement shall be continuous through the joints. Each construction joint shall be keyed.
 - No aluminum products shall be embedded in the concrete. Electrical conduit shall be placed at mid-height of the slabs and shall have an O.D. less than one-third the slab thickness.
 - Add 2-#5 reinforcing bars around all opening (unless noted otherwise) and extend 24" beyond the corner of the openings.
 - Unless otherwise noted, reinforce all concrete wall as follows:

- Wall Horizontal Vertical
- Size Reinforcement Reinforcement
- 8" #4 @ 24" O.C. #4 @ 24" O.C.
- F. REINFORCING STEEL
- All detailing, fabrication and placing of reinforcing bars shall conform to the ACI Manual of Standard Practice for Detailing Reinforced Concrete Structures (ACI 315). All reinforcement to be supported in the forms and space with wire or plastic bar supports. Reinforcement in footings shall be supported on precast concrete block supports conforming to the Concrete Reinforcing Steel Institute Manual of Standard Practice.
 - Splice of reinforcement at points of maximum stress shall be avoided wherever possible. See Table.
 - All continuous reinforcement shall terminate with 90 degree return or hook or separate corner bar.
 - All vertical reinforcement in columns and walls shall be doweled from the footing or structure below with rebar of the same size and spacing as required above.
 - Minimum concrete cover for reinforcing bars shall be as specified in Building Code Requirements for Reinforced Concrete (ACI 318)
 - Welding or lack welding of reinforcing bars is prohibited unless specifically approved by the Engineer.
 - LUMBER
 - Do not notch any structural wood member unless shown on the drawings.
 - Install and follow all manufacturers guidelines for Engineered Wood I members and LVL products. -Do not notch or cut flanges of Eng. Wood I Members. -
 - All nails shall be common wire nails. Any nails exposed to weather or moisture shall be of stainless steel or shall be galvanized.
 - Wherever possible nails should be driven perpendicular to the grain instead of toe nail.
 - Where wood tends to split, holes for nails shall be bored a diameter smaller than that of the nails.
 - Plywood face grain must be perpendicular to its supports.
 - Any wood members in contact with concrete or earth shall be pressure-treated wood or wood that is decay resistant (redwood or cedar).
 - Wet use adhesives shall be used on all glulam members subjected to possible moisture.
 - Roof trusses to be designed and engineered by supplier to meet the design loads herein indicated in addition to any and all drifting loads, wind loads, equipment loads and other loads as indicated on framing plan. Submit shop drawings and calculations for review.
 - Truss manufacturer to provide truss to truss connection details.

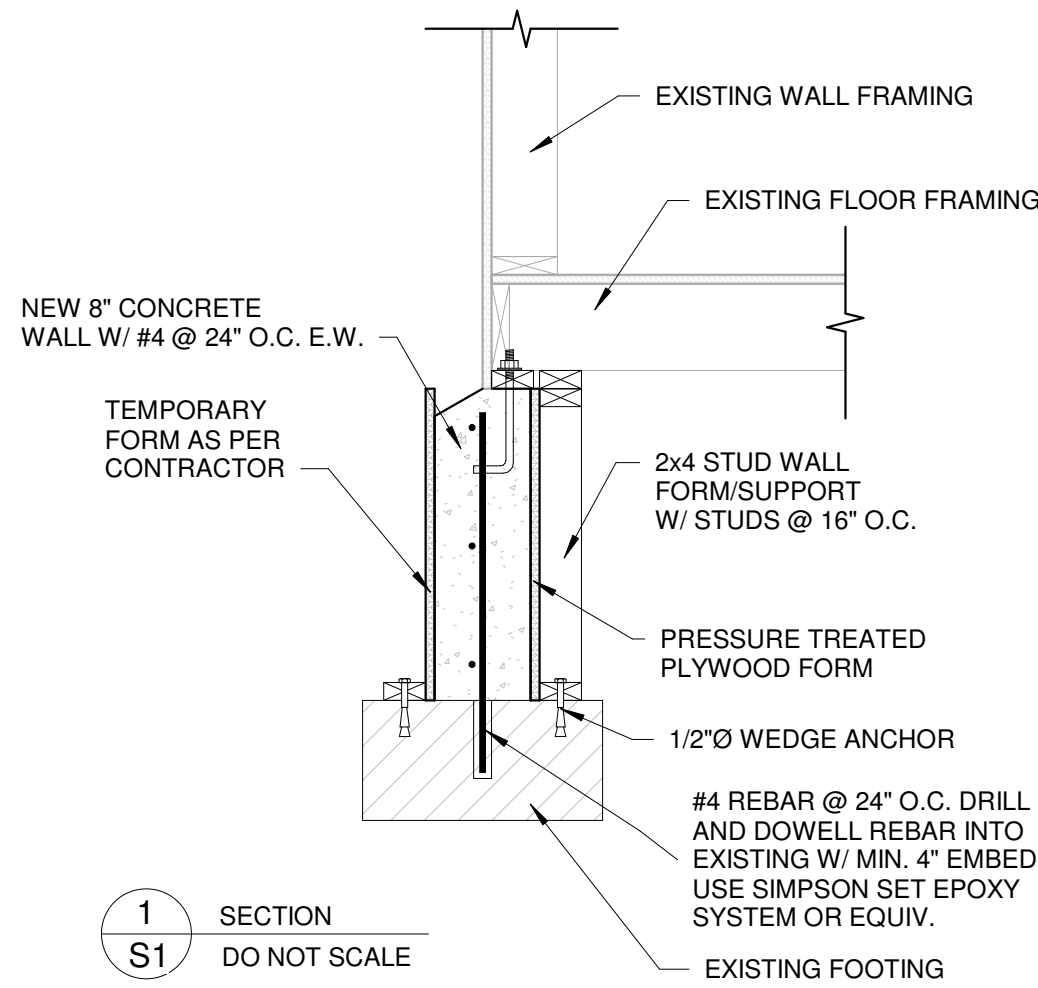
- NAILING SCHEDULE
- 19/32" APA Rated 40/20 Roof Sheathing
- No blocking required unless shown on framing plan. See typical detail.
- use panel clips at unsupported edges.
- Boundary nailing - 10d @ 6" o.c.
- End nailing - 10d @ 6" o.c.
- Side nailing - 10d @ 6" o.c.
- Intermediate nailing - 10d @ 12" o.c.

SHEAR WALLS

See Shear Wall Schedule

- H. DEFERRED SUBMITTALS
- List of deferred submittals (shop drawings) that require Architectural and/or Engineering review and approval before fabrication or installation begins:
- Engineered Roof Trusses

- GENERAL NOTES
- Adequate shoring and bracing of all structural members during construction shall be provided.
 - Any proposed field changes shall have prior approval from the Engineer.
 - Contractor shall verify all dimensions in the field. Any variation from the drawings shall be brought to the attention of the Engineer.
 - Install Simpson hardware as per Manufacturers requirements.
 - Details are representations/ depictions only. Follow written callouts.
 - NO CHANGES PERMITTED WITHOUT EXPRESS WRITTEN PERMISSION OF ENGINEER

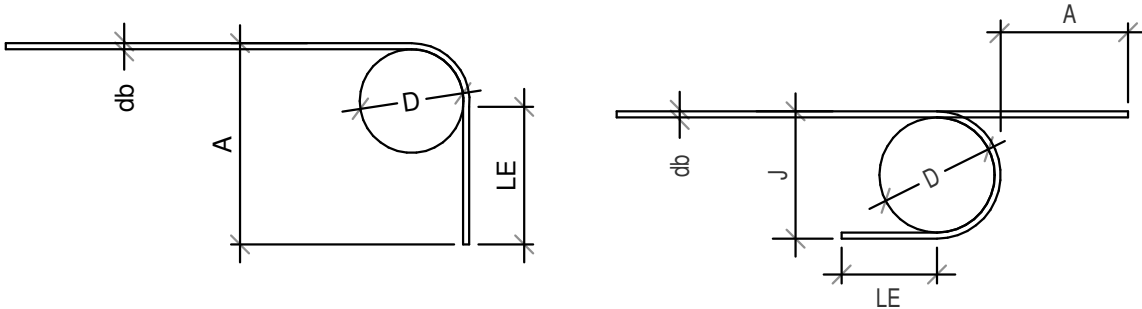


1 SECTION
S1 DO NOT SCALE

WIND COMPONENT AND CLADDING SCHEDULE			
WIND PRESSURE (PSF)	10 SF	50 SF	100 SF
ROOF AT LEAST 3'-0" AWAY FROM ANY EDGE	-10.0, -17.9	-10.0, -15.1	-10.0, -25.9
ROOF WITHIN 3'-0" OF ANY EDGE	-10.0, -35.1	-10.0, -21.5	-10.0, -42.9
WALL AT LEAST 3'-0" AWAY FROM ANY CORNER	+10.7, -10.7	+10.0, -10.1	+10.0, -10.0
WALL WITHIN 3'-0" OF ANY CORNER	+10.7, -21.5	+10.0, -18.8	+10.0, -16.7

90° HOOK DIMMENSIONS			
BAR SIZE	A	D	LE
#4	8"	3"	6"
#5	10"	3 3/4"	7 1/2"
#6	1'-0"	4 1/2"	9"

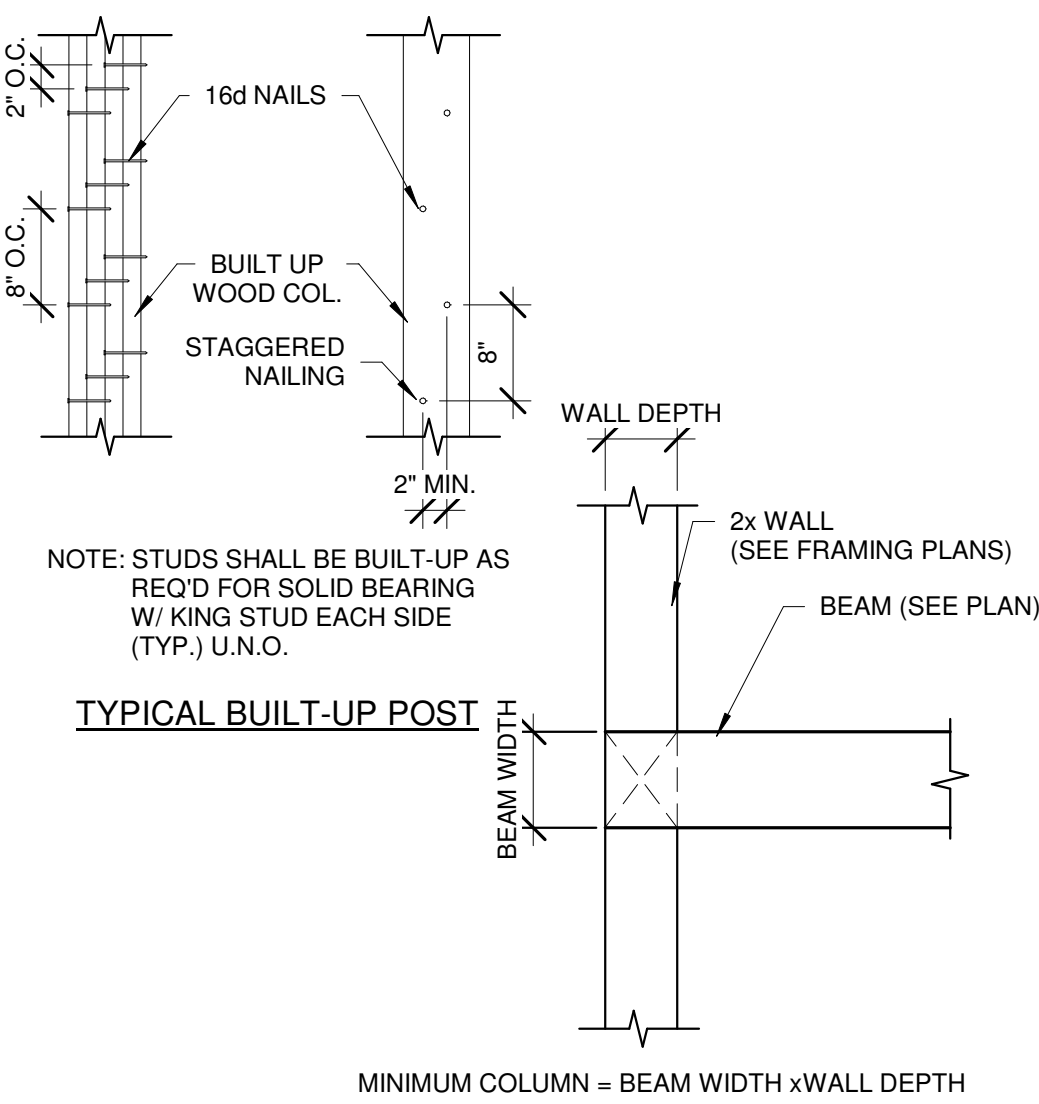
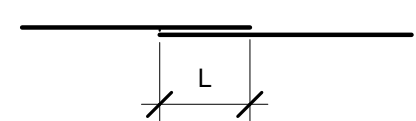
180° HOOK DIMMENSIONS				
BAR SIZE	A	J	D	LE
#4	6"	4"	3"	2 1/2"
#5	7"	5"	3 3/4"	2 1/2"
#6	8"	6"	4 1/2"	3"



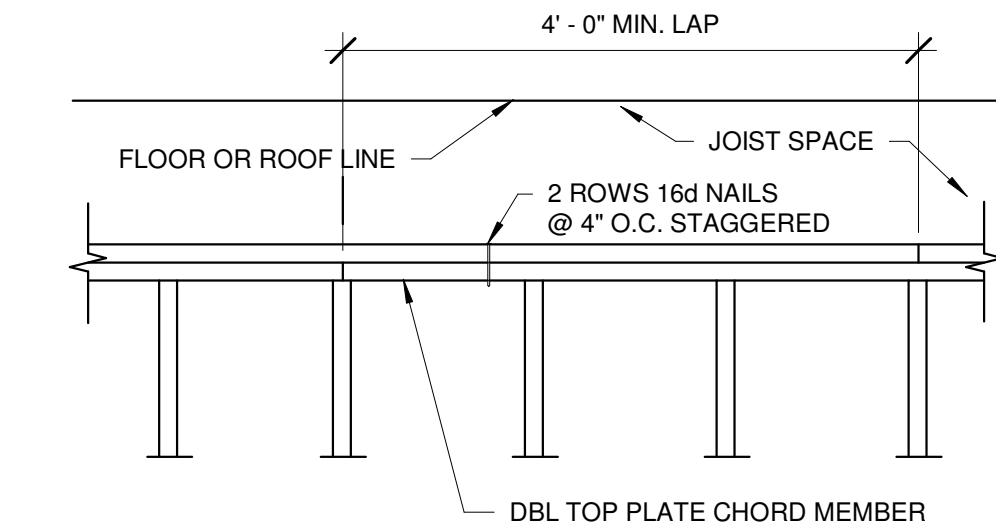
STANDARD HOOK DETAILS

REBAR LAP SPLICE SCHEDULE

BAR SIZE		min. f'c = 3000 PSI
		TYP. SPLICES
NO.	DIA.	LENGTH (L)
4	0.500	22"
5	0.625	28"
6	0.750	33"

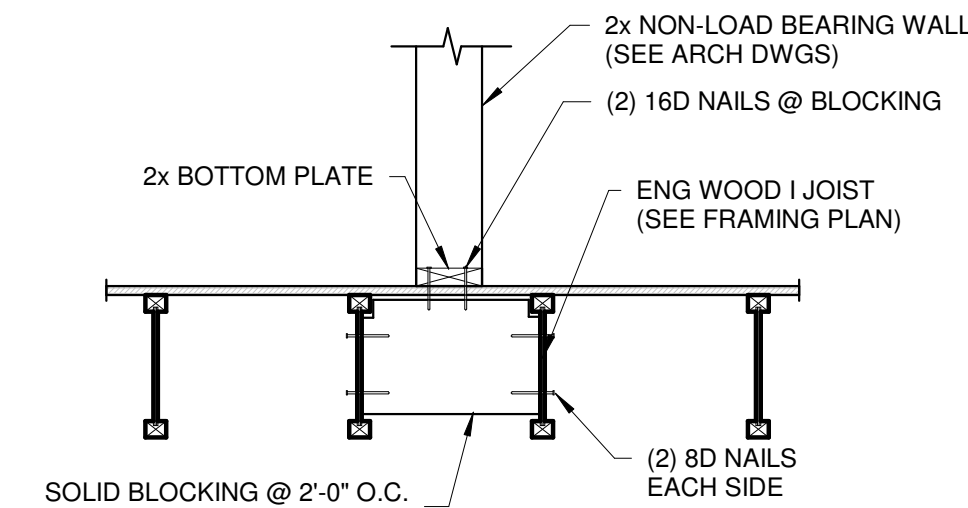


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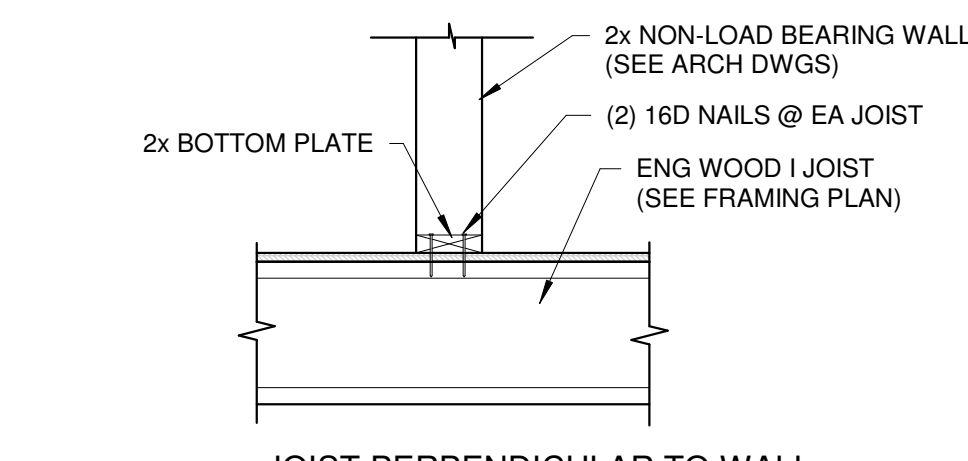


SPLICE DETAIL

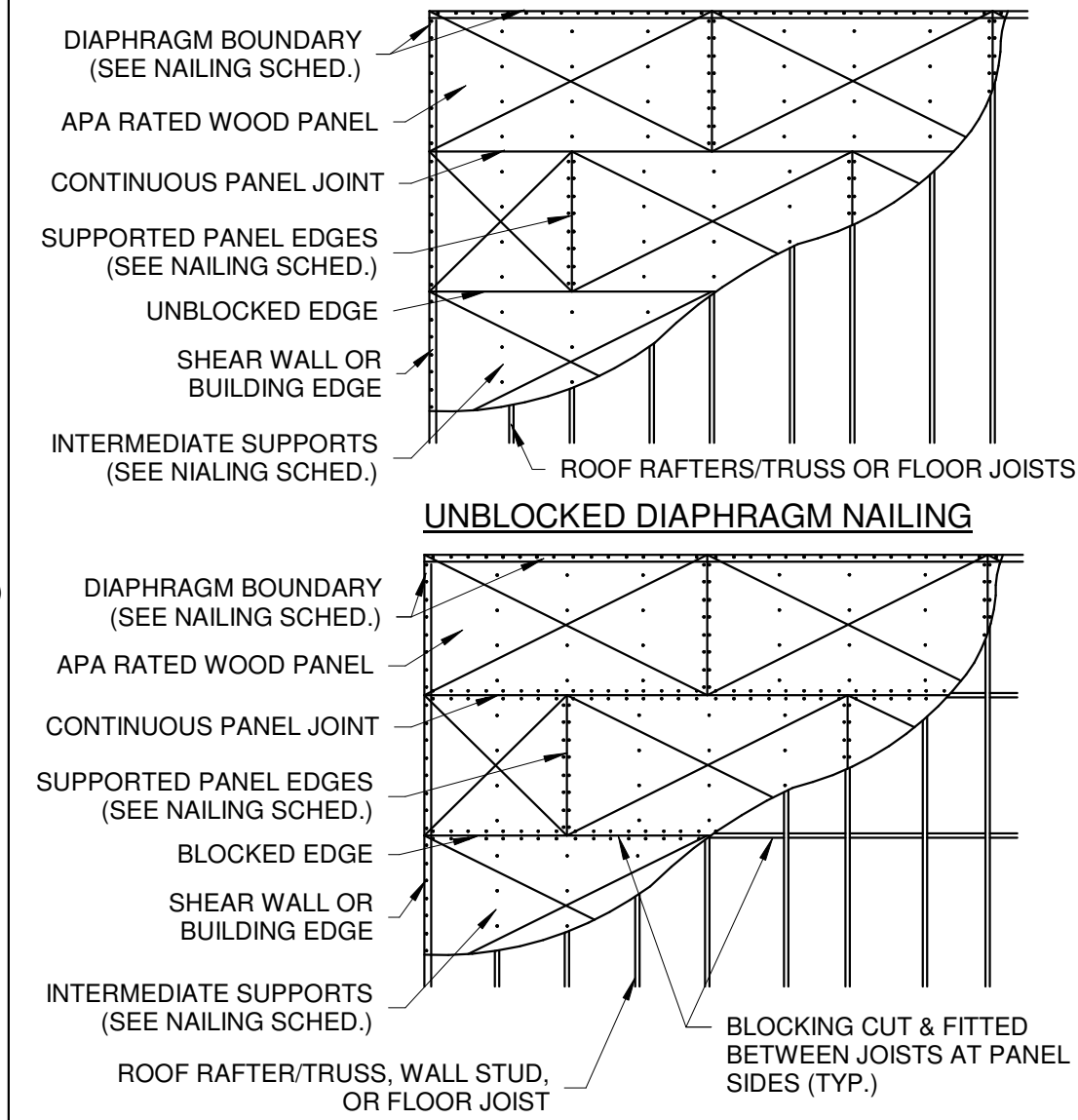
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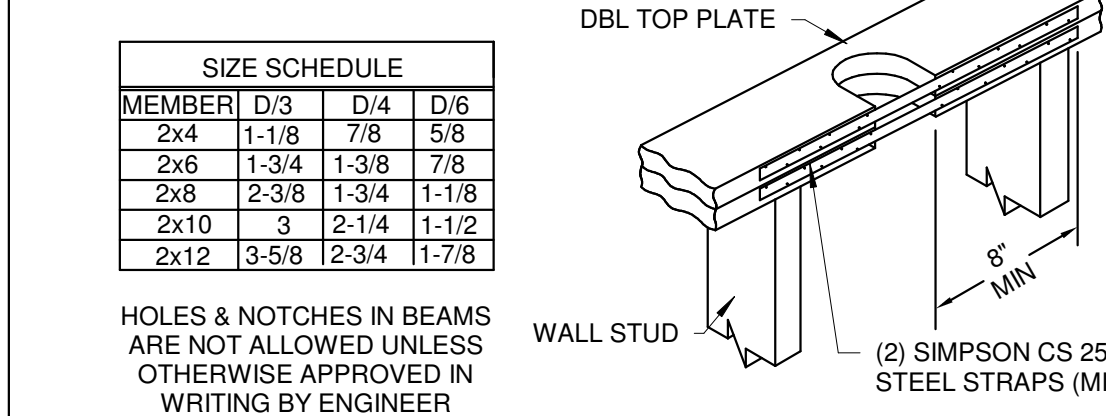
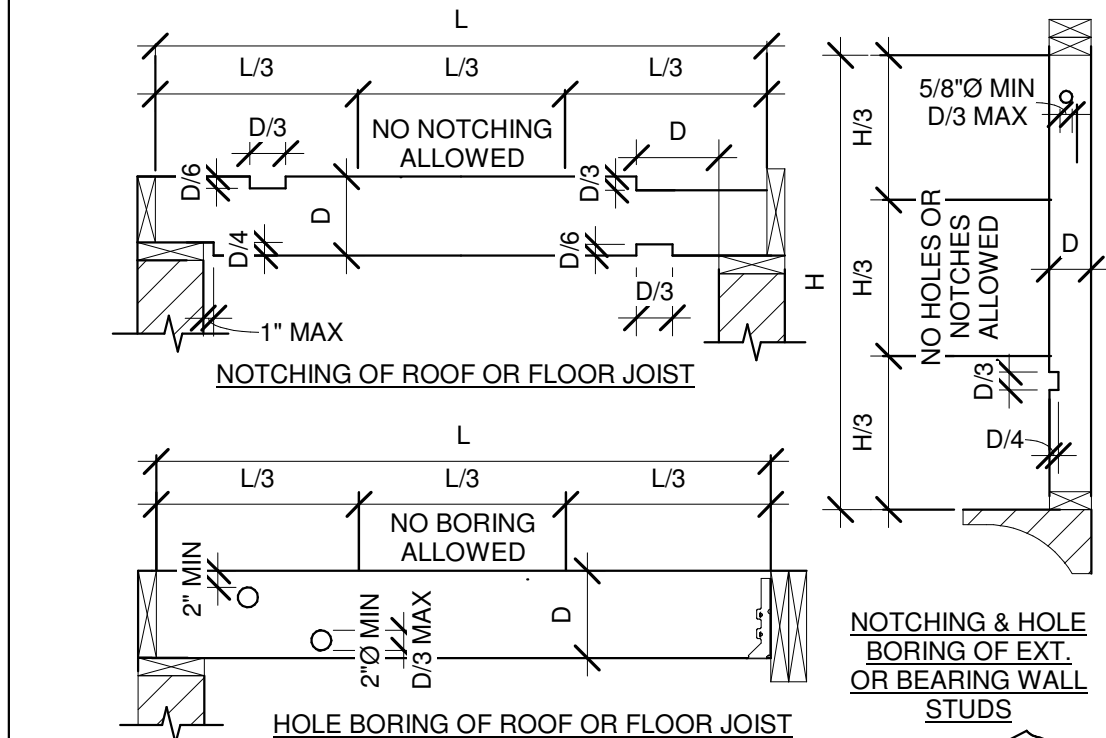
JOIST PARALLEL TO WALL



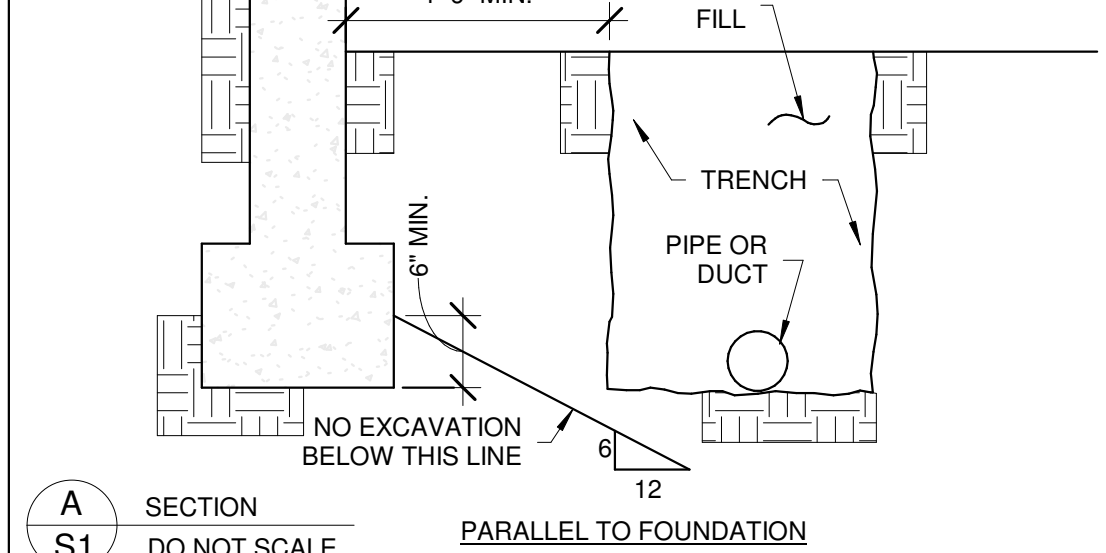
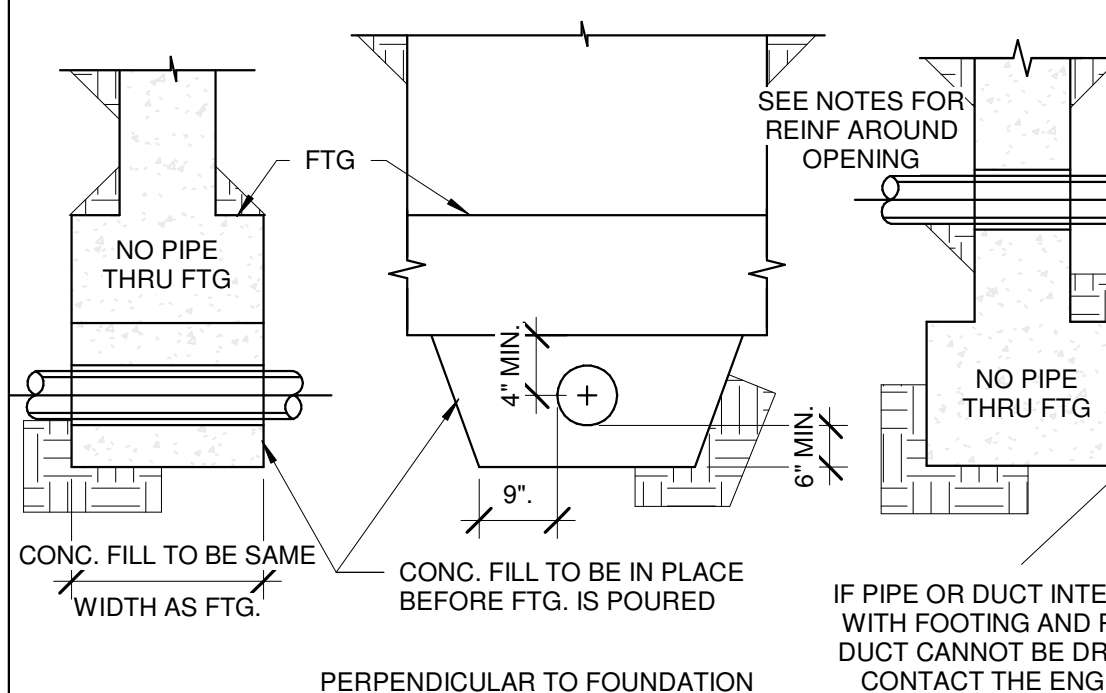
D SECTION
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C SECTION
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B SECTION
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A SECTION
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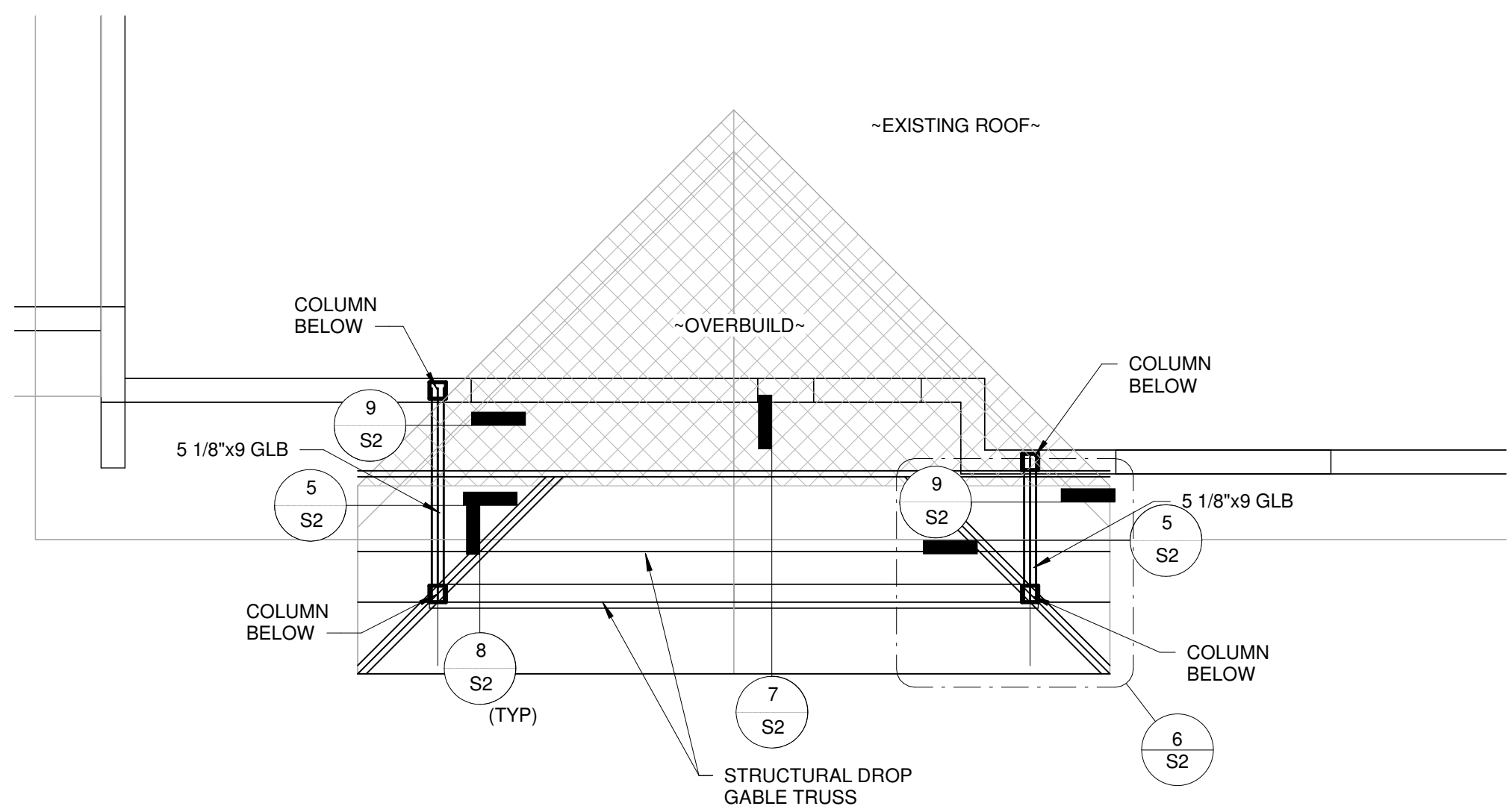
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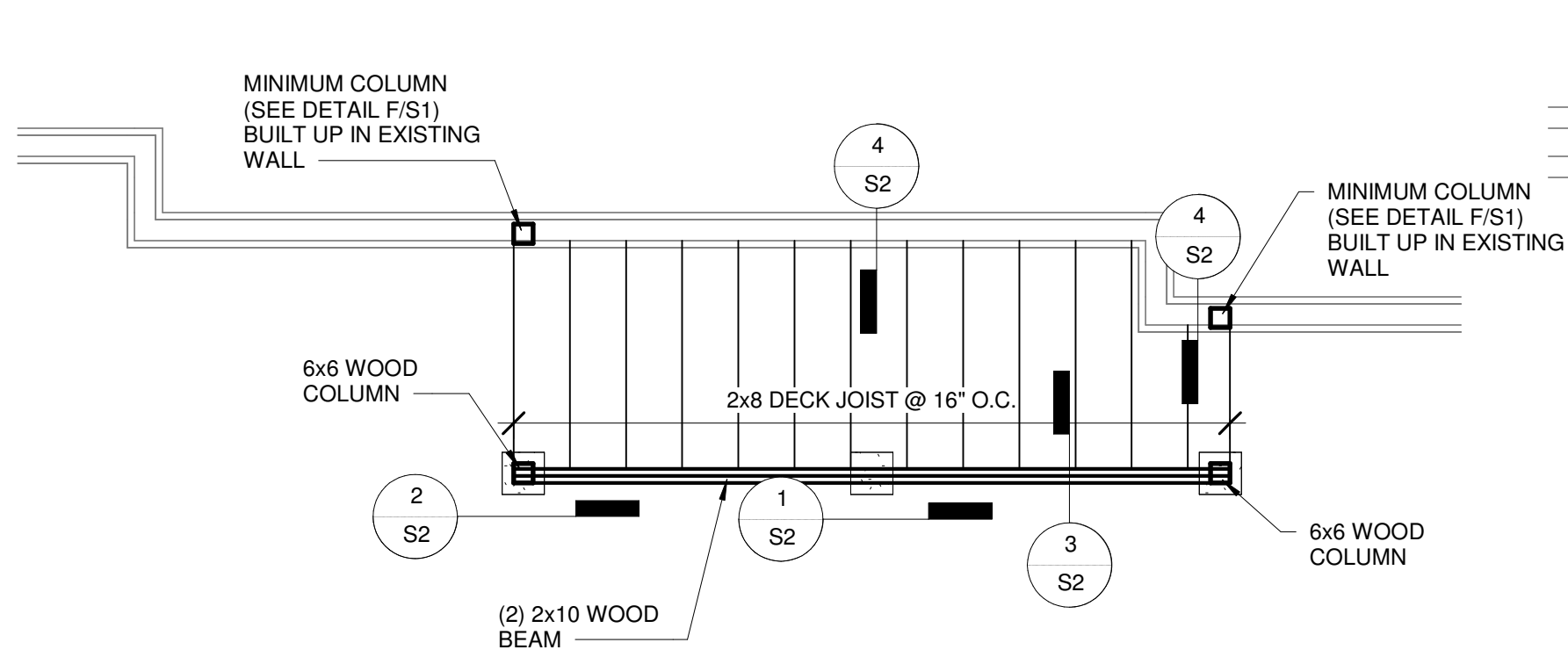
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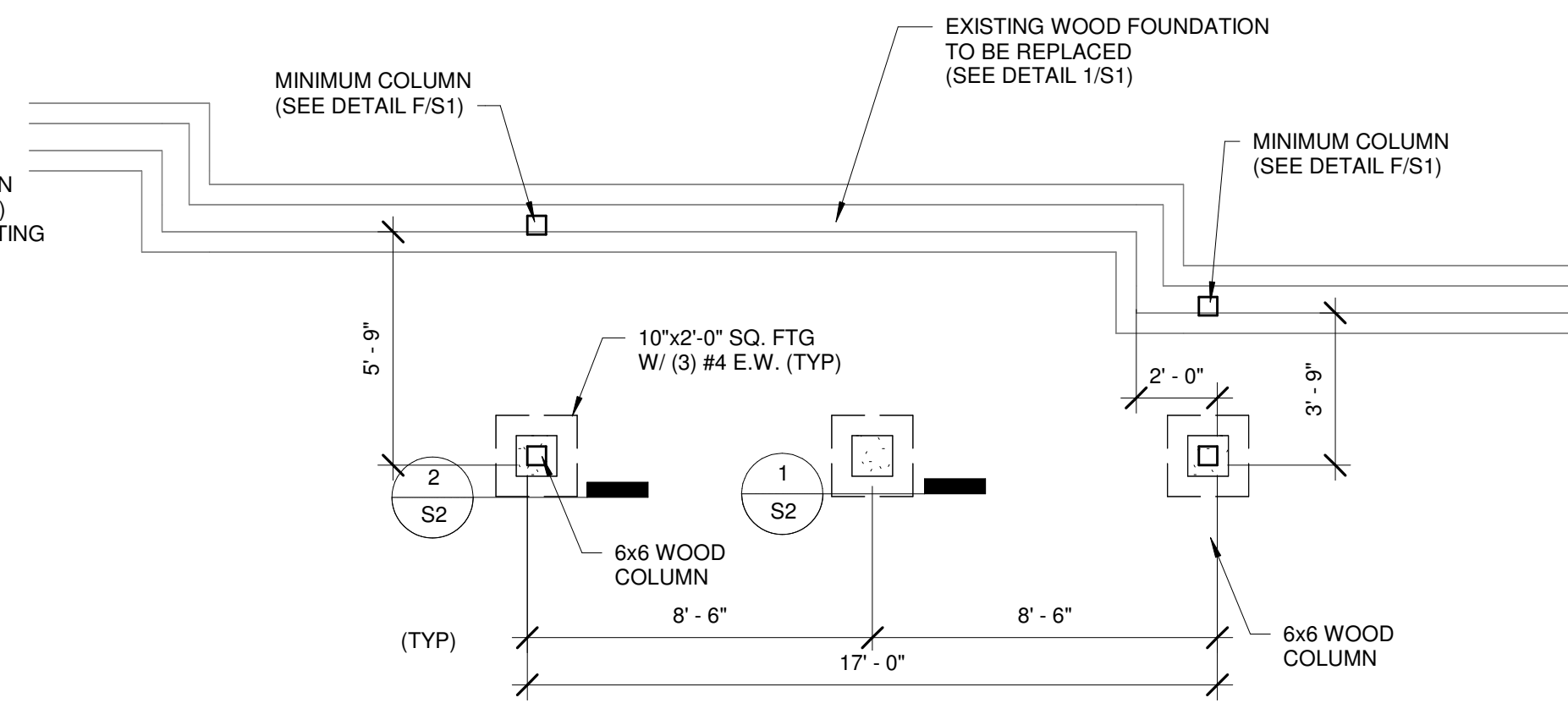
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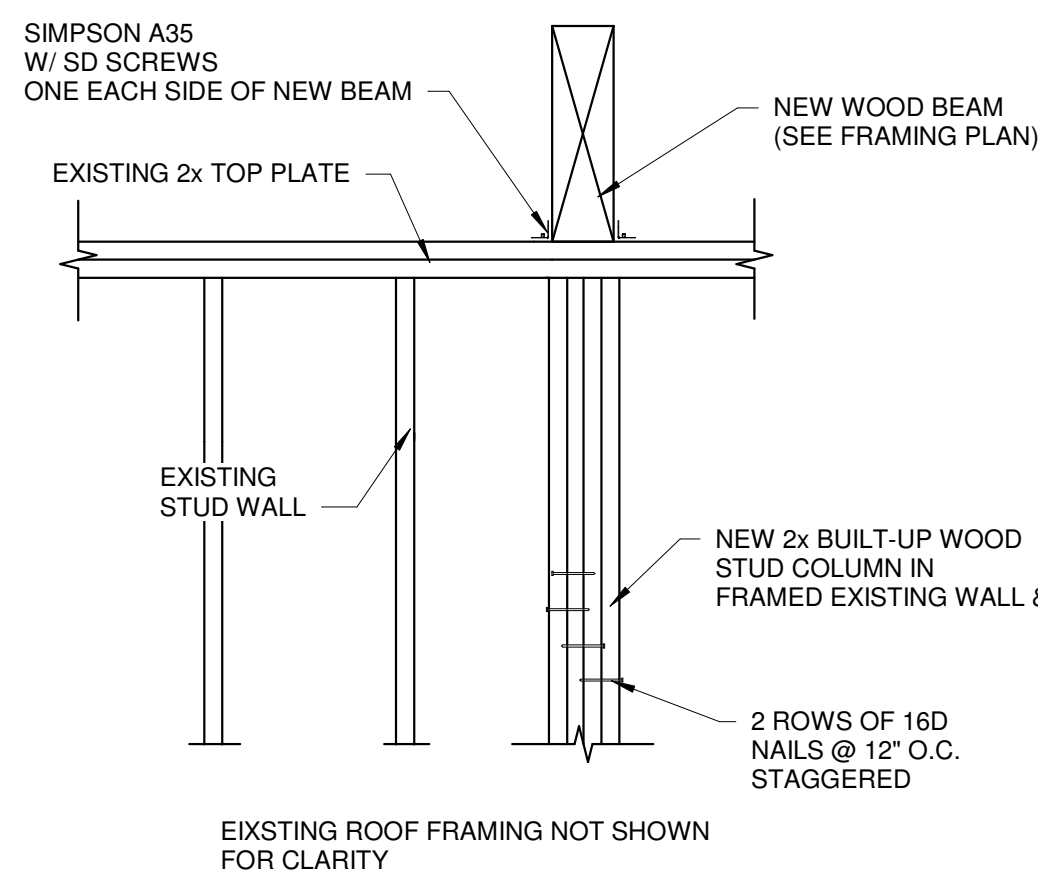
ROOF FRAMING PLAN
1/4" = 1'-0"



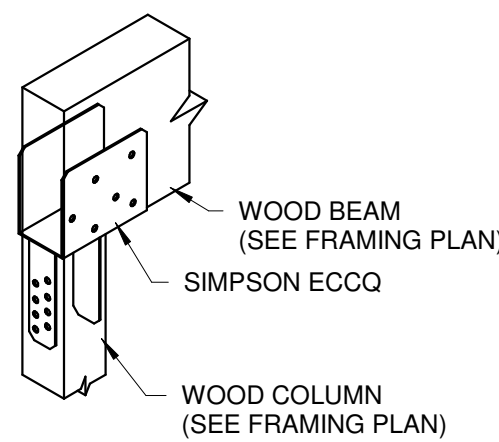
FIRST FLOOR FRAMING
1/4" = 1'-0"



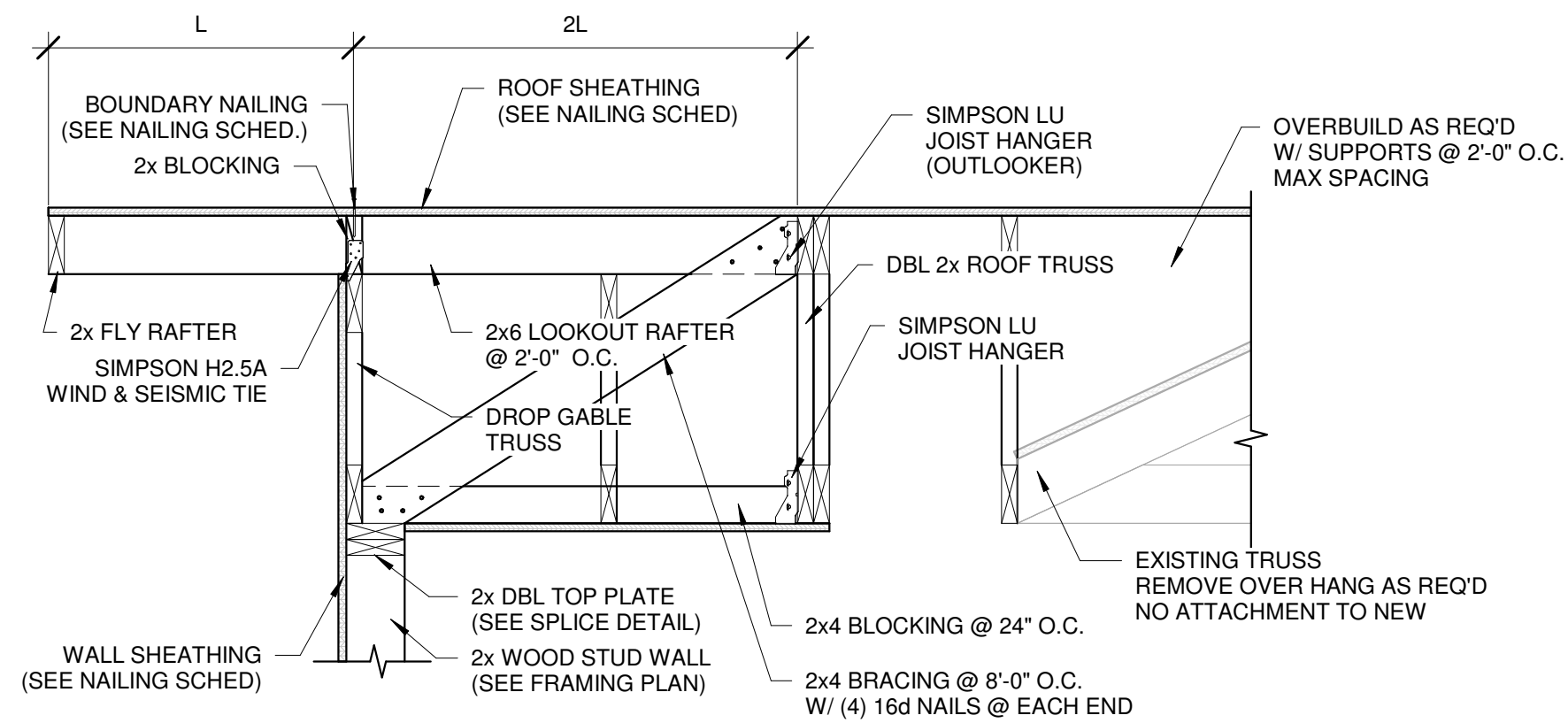
FOUNDATION PLAN
1/4" = 1'-0"



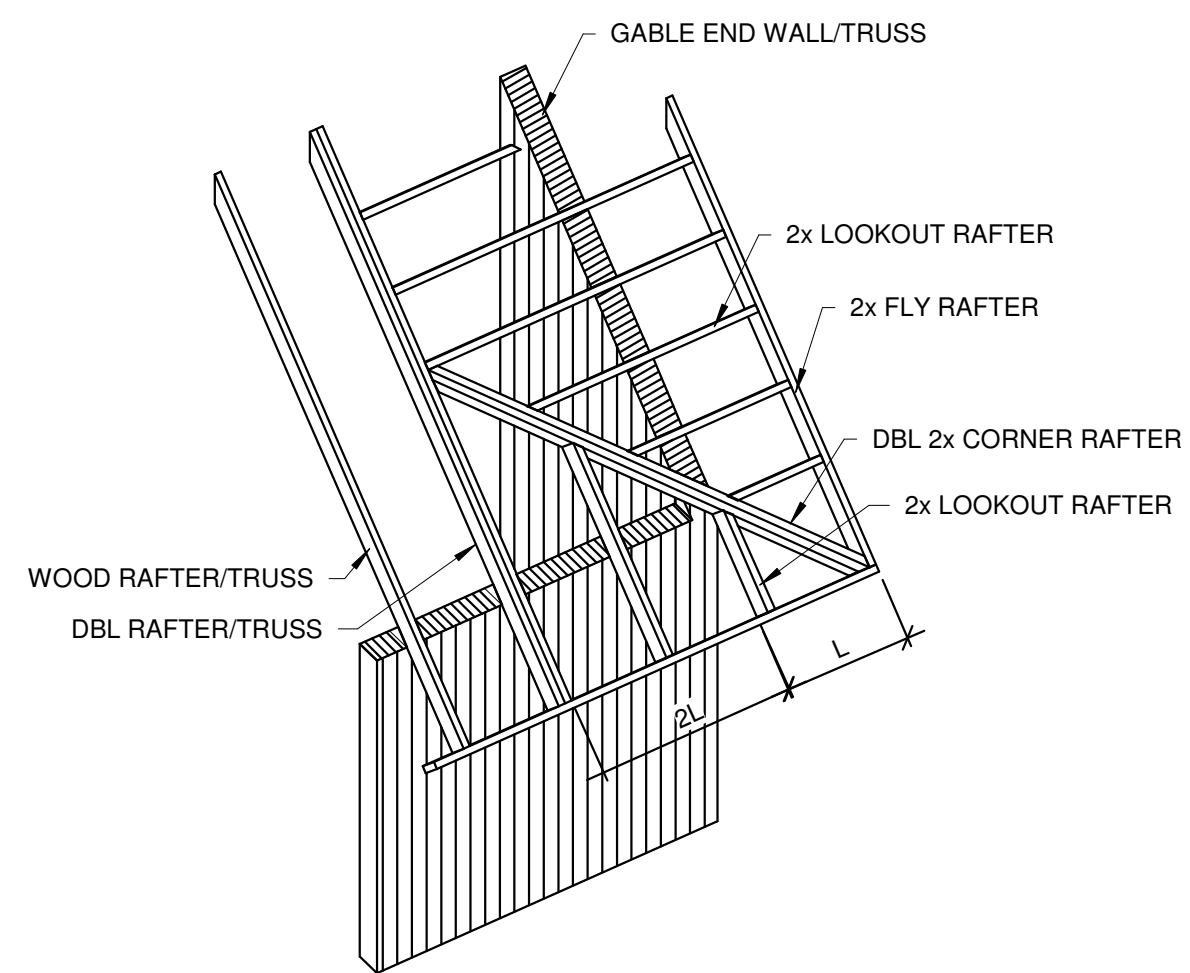
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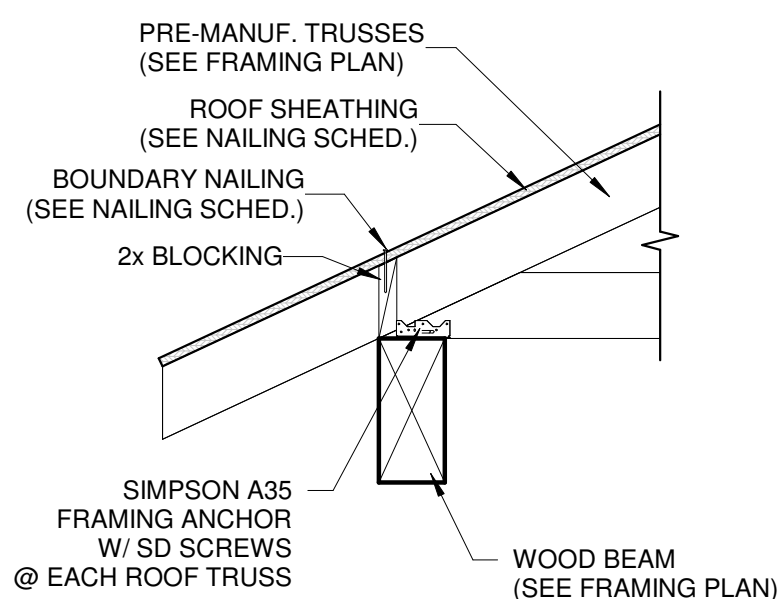
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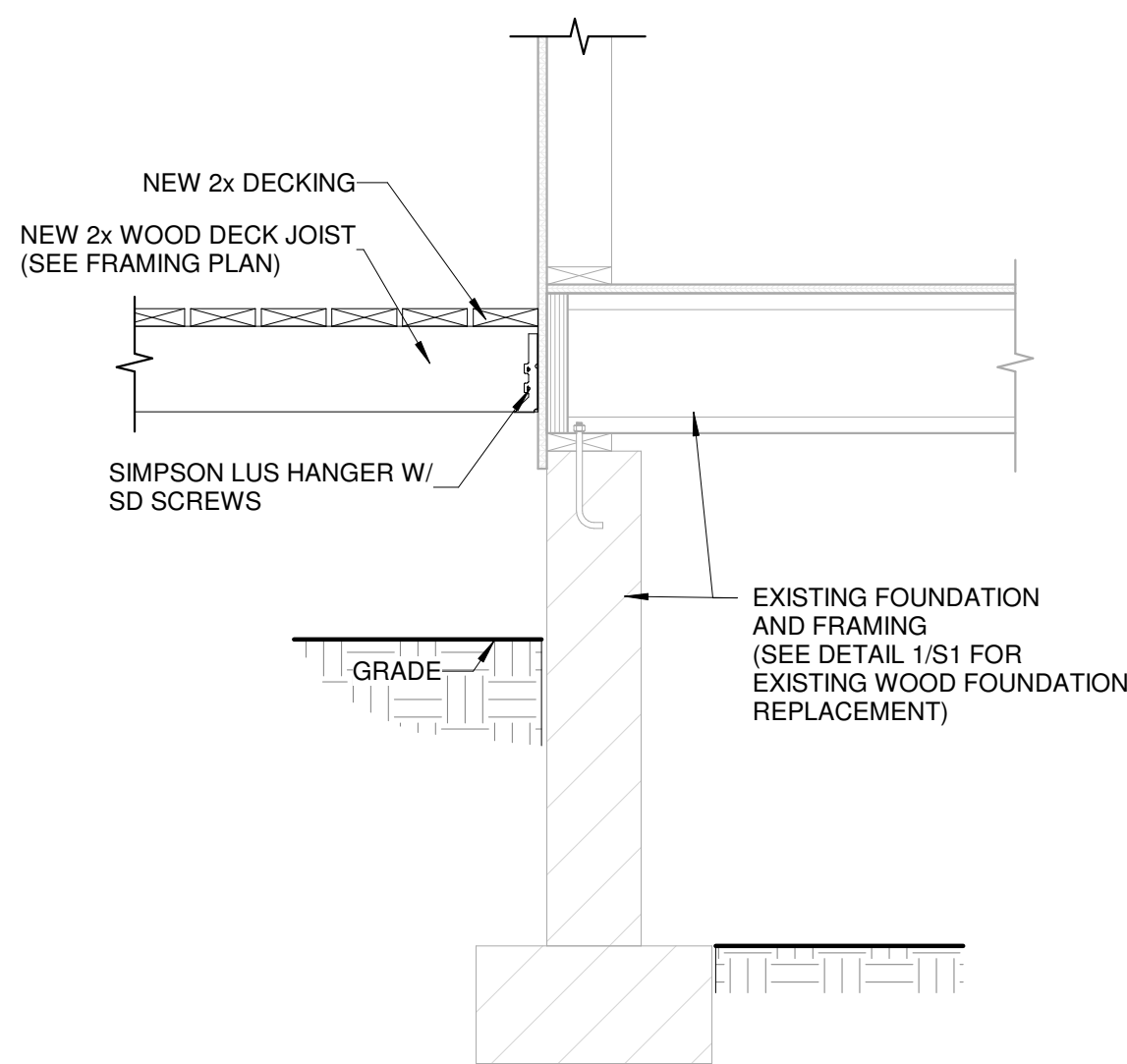
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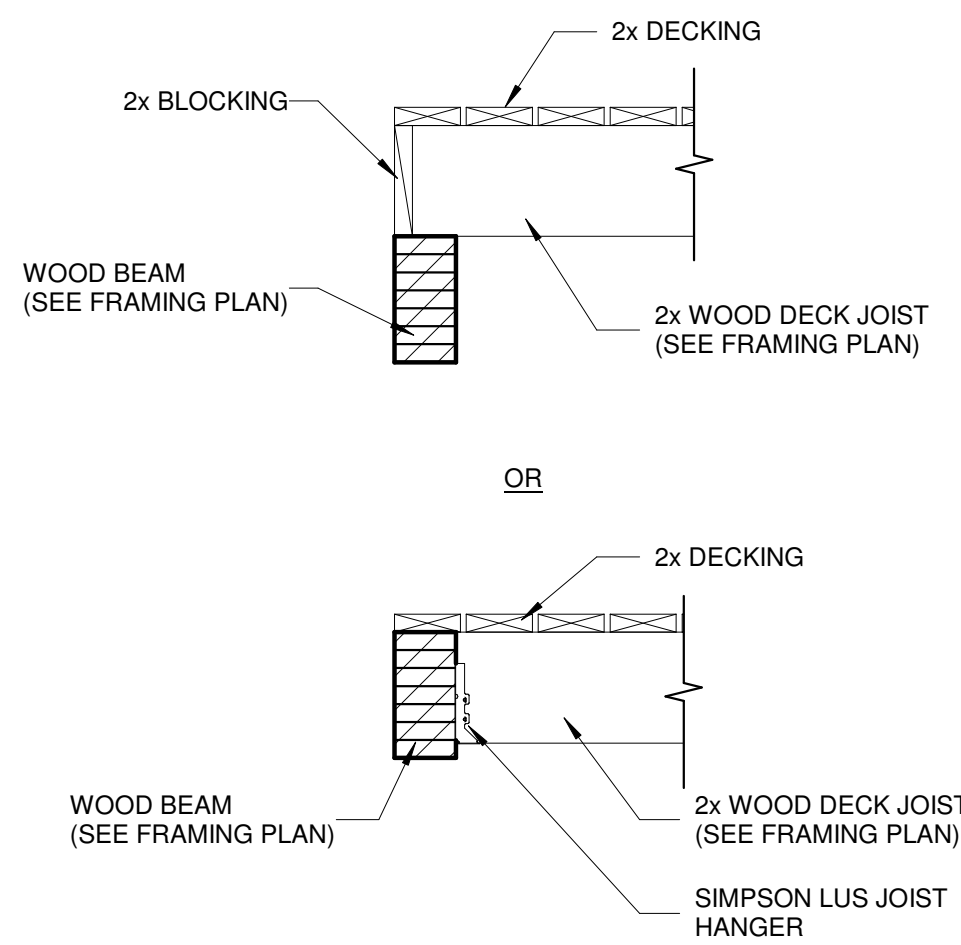
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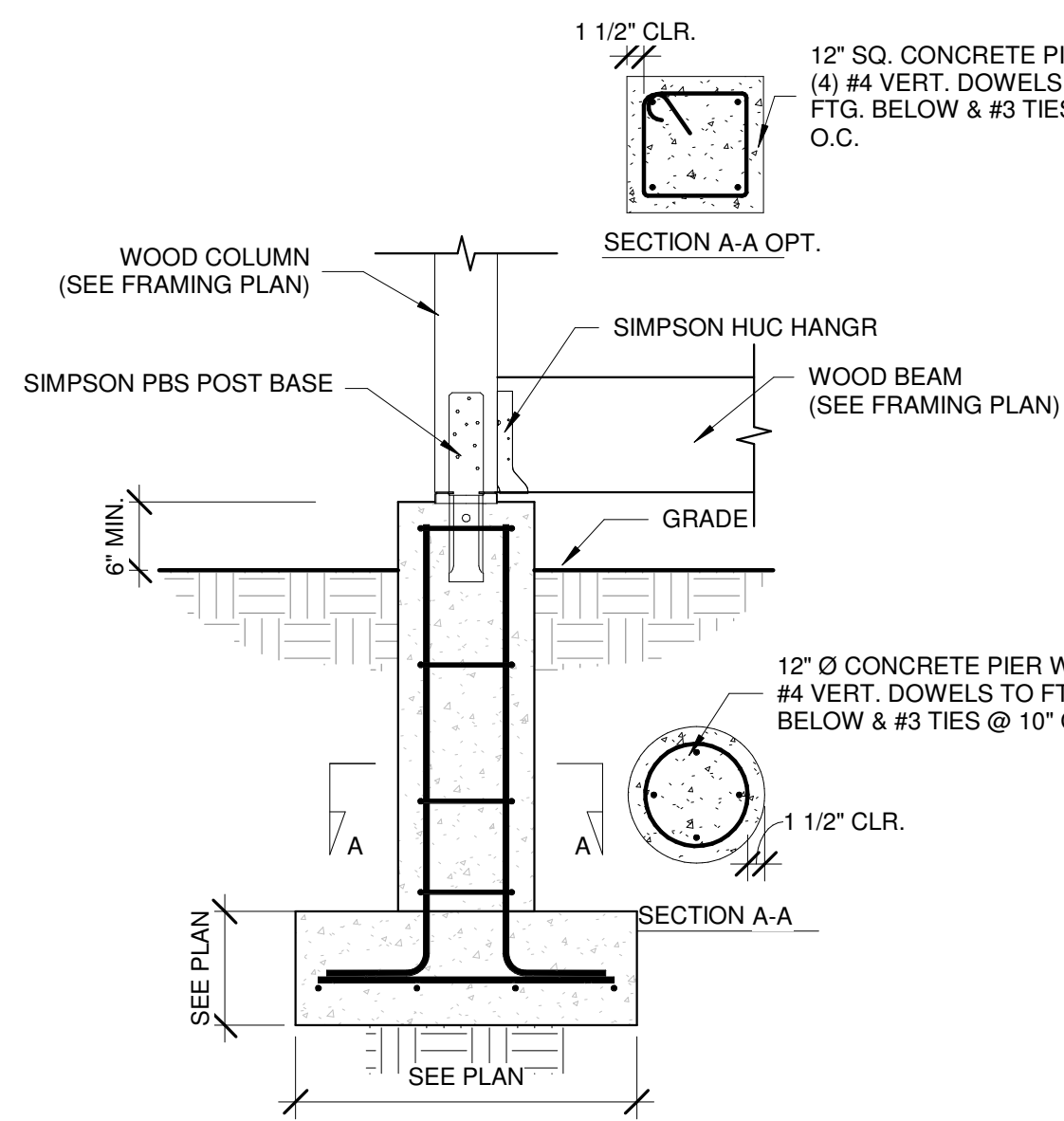
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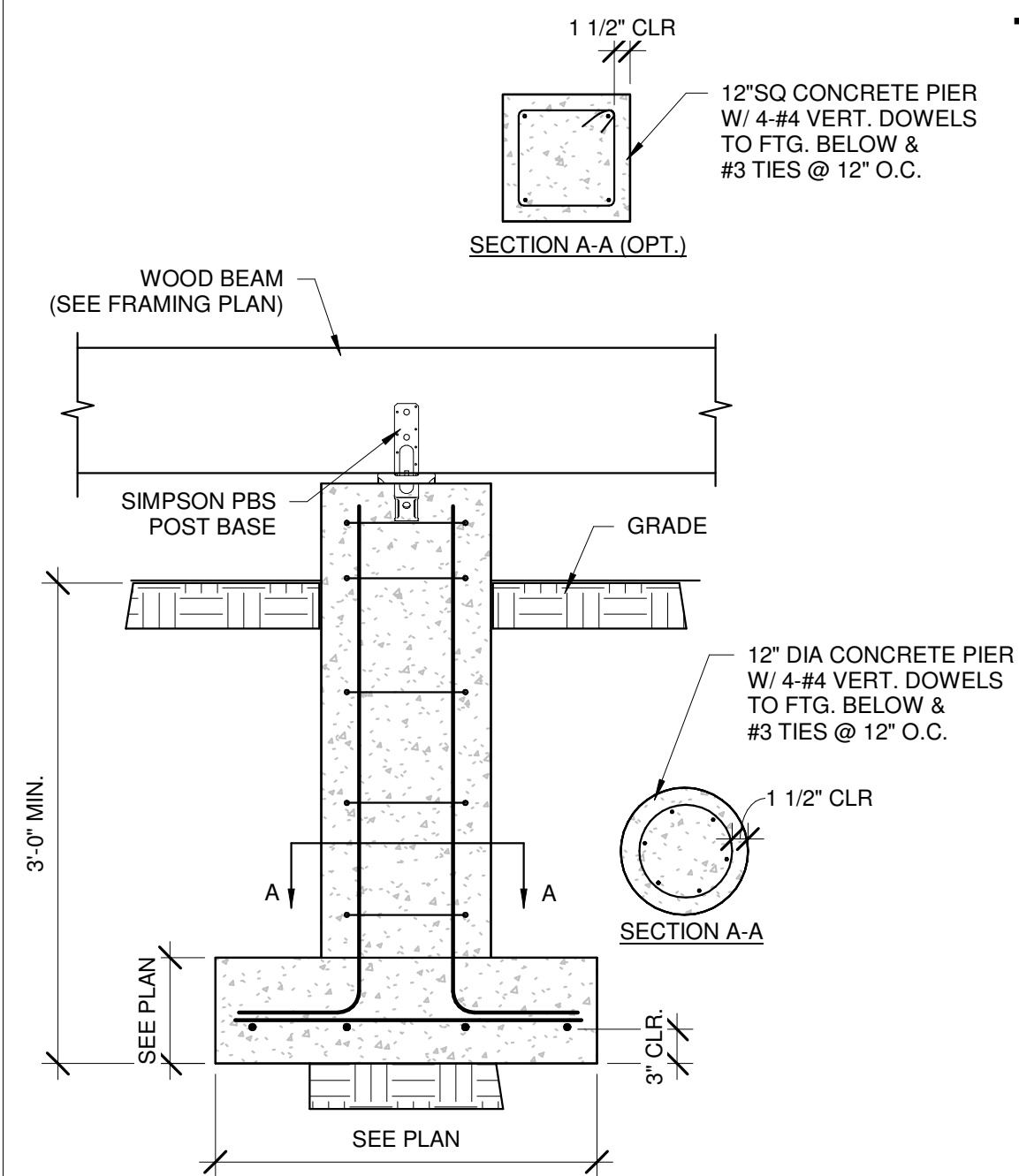
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3 SECTION
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2 SECTION
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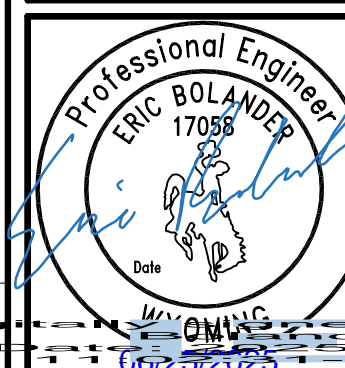


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