

**A. SITE PLAN**  
 1/10" = 1'-0"  
 [327] = SPOT ELEVATION, FINAL  
 - - - - - = EAVE/ROOF LINE  
 - - - - - = EXTENT OF LIVING AREA  
 - - - - - = BUILDING FOOTPRINT (FOUNDATION EXTENTS)  
 SHADED AREA = BLDG EXTENTS TO EAVE  
 EXISTING HOUSE, DRIVEWAY AND ALL HARDSCAPE ON PROPERTY TO BE REMOVED  
 - - - - - = EXISTING TOPOGRAPHY

NFPA 13d Fire Sprinkler System and NFPA "Chapter 29" Monitored Fire Alarm Required. Monitored Alarm may substitute for typical "line voltage" smoke detectors as noted on the floor plans.

**LOT SLOPE**  
 HIGH POINT = 272.12'  
 LOW POINT = 224.55'  
 LOT SLOPE = 47.57'/160' = 29.73%  
 LOT COVERAGE = 35%

**F.A.R. CALCULATION**  
 Main Floor FA = 2222.75 sf (inc. gar)  
 Lower Floor FA = 2256 sf (with aadu)  
 Upper Floor FA = 2120 sf  
 6598.75

excepted FA = (-1504.22 sf)  
 stairs = (74 sf x 2 = 148 sf)

TOTAL chargeable FA = 4946.5 sf  
 allowable = 11,200 x .45 (w/adu) = 5040 sf  
 5020.5 / 11,200 = 44.17%

**LOT COVERAGE (SHADED AREA)**  
 House Roof to eaves (shaded x 2) = 2871 sf  
 covered porches/decks = 295 sf  
 driveway (shaded) = 615.3 sf  
 TOTAL = 3781.3 sf  
 allowable = 11,200 x .35 = 3,920 sf  
 amount available for hardscape = 138.7 sf

**HARDSCAPE (DOTTED AREA)**  
 DECKS, PATIOS, WALKS ETC = 437.4 sf

allowable = 11,200 x .09 = 1008 sf  
 extra lot cov. = 138.7  
 TOTAL allow. = 1146.7 sf

All Japanese knotweed (*Polygonum cuspidatum*) and Regulated Class A, Regulated Class B, and Regulated Class C weeds identified on the King County Noxious Weed list, as amended, shall be removed from the property.

development proposals for a new single-family home shall remove Japanese knotweed (*Polygonum cuspidatum*) and regulated class a, regulated class b, and regulated class c weeds identified on the King County Noxious Weed list, as amended, from required landscaping areas established pursuant to subsection 19.02.020(f)(3)(a). New landscaping associated with new single-family home shall not incorporate any weeds identified on the King County Noxious Weed list, as amended, provided, that removal shall not be required if the removal will result in increased slope instability or risk of landslide or erosion.

**Civil Engineer**

Nick Bossoff  
 191 NE Tari Lane  
 Stevenson WA 98648  
 425.881.5904

**Geotechnical Engineer**

Sam Adettiwar, MS, PE, GE, P.Eng  
 American Geoservices  
 24 Roy Street #727  
 Seattle, WA 98109  
 (206) 418-6634

**Structural Engineer**

Javid Abdi, PE, SE Atlas Consulting Structural Engineers  
 6810 NE 149th St Kenmore WA 98028  
 Phone: (206) 427-7233

**Contractor**

Mike Yeganeh  
 Aspen Homes NW  
 (206) 799-3016

**Project Description**

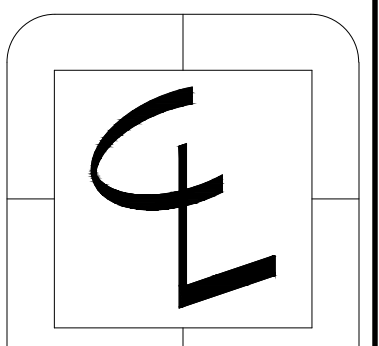
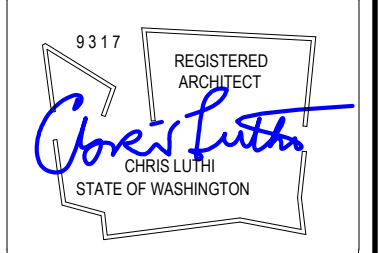
Demolish existing and build new single family residence with attached accessory dwelling unit.

**Parcel Number/Legal**

Parcel # = 502190-0490  
 Legal Description:  
 MADRONA CREST ADD  
 Plat Block: 4  
 Plat Lot: 5  
 ZONING = R-8.4  
 lot size = 11,200 sf

**Owner**

ANANTA & SATYA GUDIPATY  
 3737 77TH AVE SE  
 MERCER ISLAND WA 98040



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Site Plan

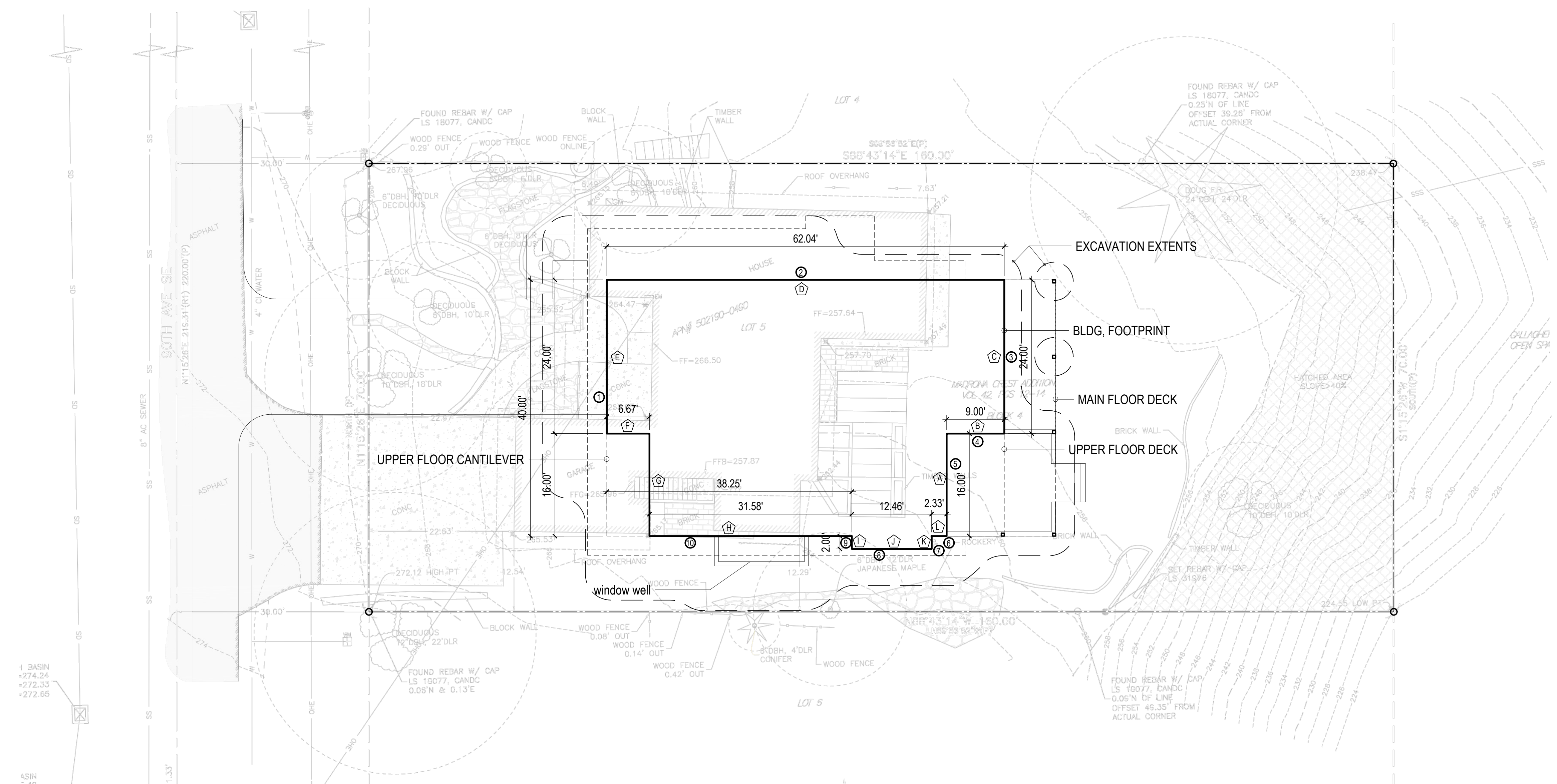
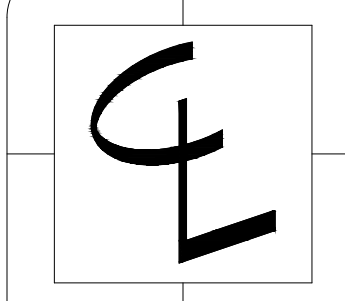
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**DATE**

11.17.22

1a



BASEMENT AREA F.A. EXCEPTION CALCULATION

segment	length	beginning elev.	end elev.	begin cov	end cover	avg cover	%cover	wtd
a	16	261.5	256	5.50	0.00	2.75	31.1%	4.97
b	9	256	258.5	0.00	2.50	1.25	14.1%	1.27
c	24	258.4	257	2.40	1.00	1.7	19.2%	4.61
d	62.04	257	265.5	1.00	9.50	5.25	59.3%	36.80
e	24	265.5	265.5	9.50	9.50	9.5	100.0%	24.00
f	6.67	265.5	265.5	9.50	9.50	9.5	100.0%	6.67
g	16	265.5	265.5	9.50	9.50	9.5	100.0%	16.00
h	31.63	265.5	263.5	9.50	7.50	8.5	96.0%	30.38
i	2	263.5	263.5	7.50	7.50	7.5	84.7%	1.69
j	12.46	263.5	262	7.50	6.00	6.75	76.3%	9.50
k	2	262	262	6.00	6.00	6	67.8%	1.36
l	2.33	262	261.5	6.00	5.50	5.75	65.0%	1.51
perim=	208.13							138.77
raw FAR	2256					avg.	66.7%	

basement slab elev = 256  
 full cover = 8.9 ft (fin. clg.)  
 excepted area = 1504.22  
 BOLD elevations are lower than existing grade, all others existing = final  
 segment is footprint on the ground

ELEVATION CALC.

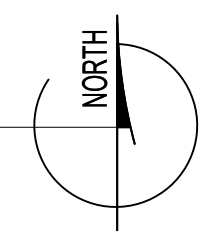
	EL @ MIDPOINT	segment (ft)	wtd sgmnt
1	265.50	40	10620.00
2	257.70	62.04	15987.71
3	257.50	24	6180.00
4	256.00	9	2304.00
5	256.00	16	4096.00
6	261.80	2.33	609.99
7	262.00	2	524.00
8	263.00	12.46	3276.98
9	263.00	2	526.00
10	265.00	38.25	10136.25
		208.08	54260.93

AVG. EL = 260.7696  
 BOLD = NEW EL LOWER THAN EXIST  
 all others exist = final

A. SUPPLEMENTAL SITE PLAN

1/10" = 1'-0"

- ⓐ = WALL SEGMENT TAG FOR BASEMENT FAR EXCEPTION
- ⓑ = WALL SEGMENT TAG FOR HEIGHT CALCULATION
- = EAVE/ROOF LINE
- = BUILDING FOOTPRINT (FOUNDATION EXTENTS)



CONTENTS

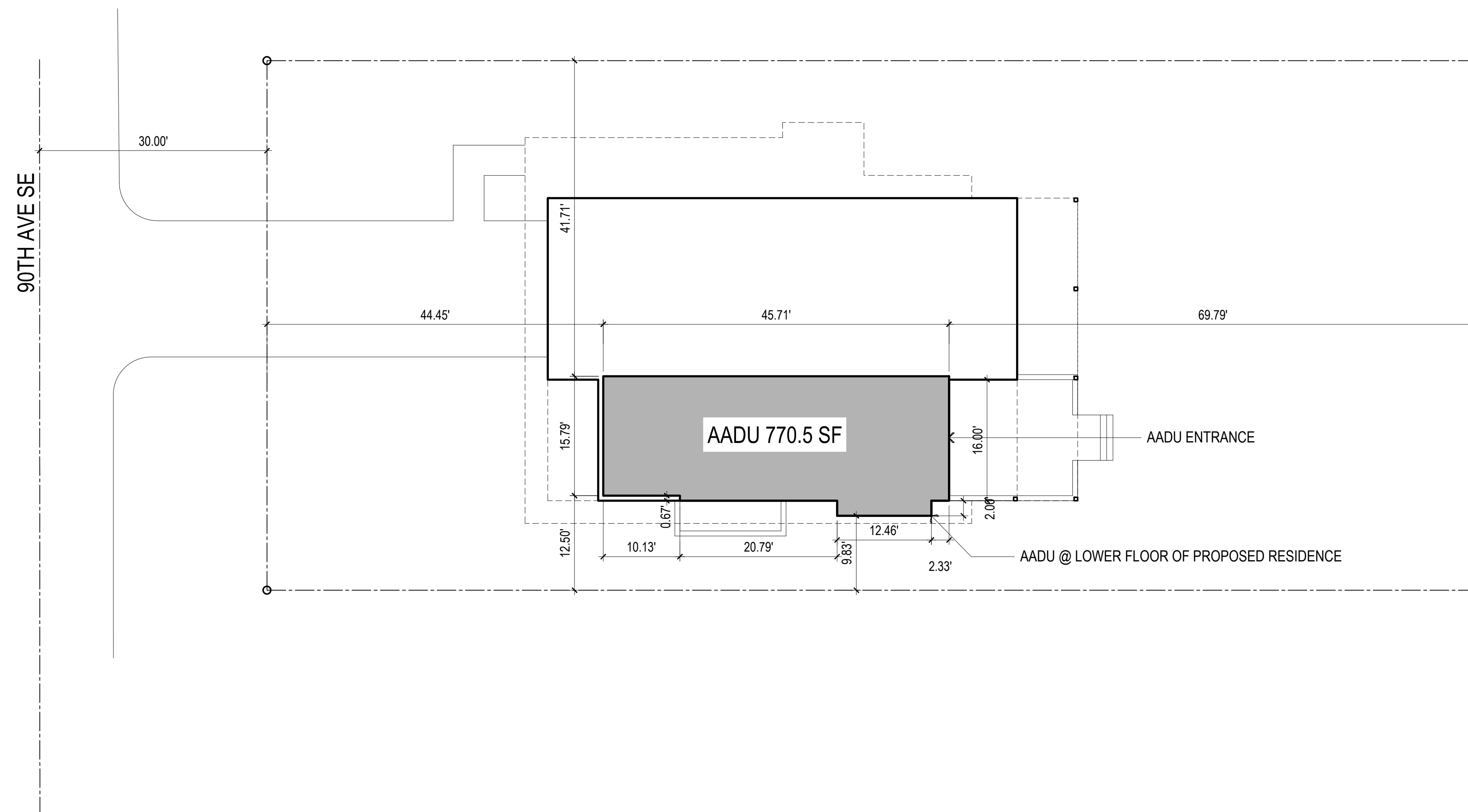
Site Plan

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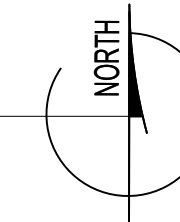
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A. AADU LOCATION DIAGRAM

1/10" = 1'-0"  
 - - - - - = EAVE/ROOF LINE  
 ————— = BUILDING FOOTPRINT (FOUNDATION EXTENTS)

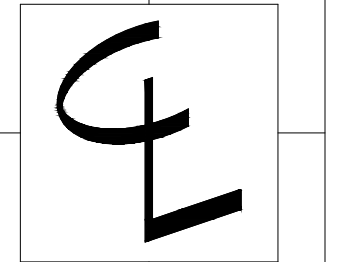
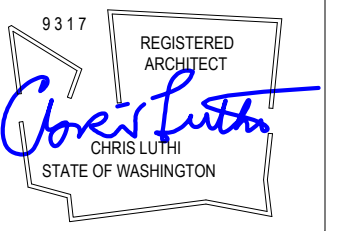


### ADU project narrative

An ADU attached to a new SFR as part of the new construction project (permit 2210-198) will include 770.5 sq. ft of living space, it will include a full kitchen with its own dishwasher, sink, oven, refrigerator, microwave and washer and dryer. There will be a separate entrance that connects by walkway to 90th ave SE. The ADU will include a living room and bedroom with an attached full bathroom. Heating control will be separate from the main house.

The ADU is within the size limits of 19.02.030 B4.  
 The location meets 19.02.030 B5.  
 The entrance of the ADU meets 19.02.030 B6  
 Parking for the ADU meets 19.02.030 B9

The ADU will be recorded as such with the King County Department of records and elections which runs with the land and identifies the address of the property, states the owner resides in either principle dwelling unit or the accessory dwelling unit, includes a statement that the owners will notify any prospective purchasers of the limitations of this section, and provides for the removal of the accessory dwelling unit if any of the requirements of this chapter are violated.



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ADU Site Plan

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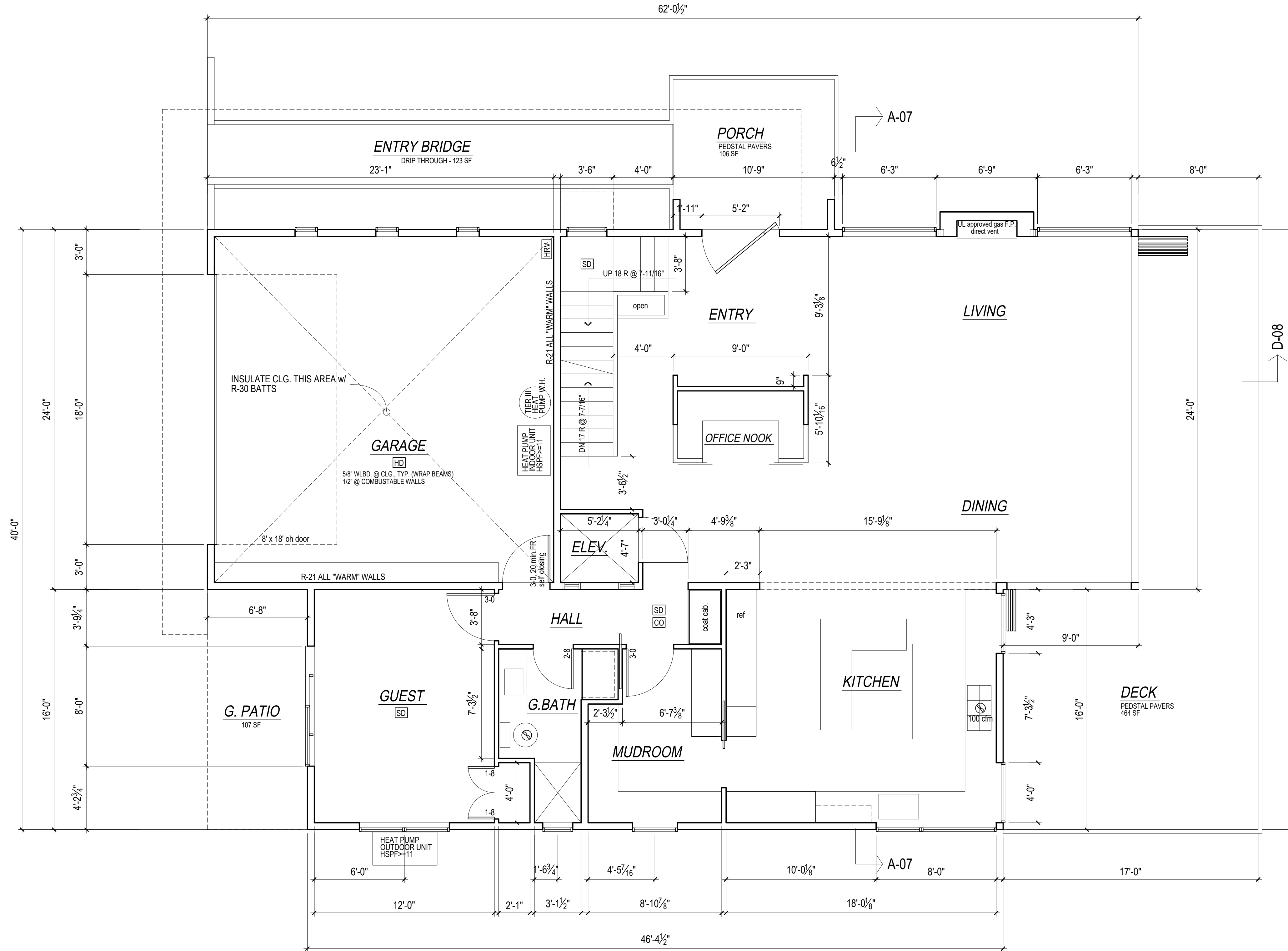
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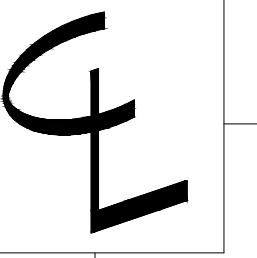
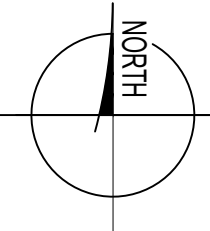
1c

NOTES

- SD = SMOKE DETECTOR, HARDWIRE, INTERCONNECTED w/ BATTERY BACK-UP
- CO = CARBON MONOXIDE DETECTOR, HARDWIRE w/ BATTERY BACK-UP
- HD = HEAT DETECTOR, HARDWIRE w/ BATTERY BACK-UP
- DOORS ARE 3-0 x 6-8 (r.o. = 3'-2" x 6'-10") UNLESS OTHERWISE INDICATED
- FAN = FAN, 50 CFM UNLESS OTHERWISE INDICATED
- FOR SHEAR WALL INFORMATION SEE STRUCTURAL PLANS
- ALL INTERIOR WALLS TO BE 2x4, EXTERIOR WALLS 2x6, EXCEPT AS INDICATED, OR EXISTING
- E = EGRESS WINDOWS
- Contractor shall verify to Inspector all guards and railings shall be capable of resisting 200 lb load on top rail acting in any direction as required by IRC Table R301.5.
- ALL WALLS FULL HEIGHT UNLESS OTHERWISE INDICATED
- T = TEMPER/SAFETY GLAZE WINDOWS
- ALL GAS F.P. TO BE APPROVED DIRECT VENT



**A. MAIN FLOOR PLAN**  
 1/4" = 1'-0"  
 LIVING SPACE (TO O.S. WALLS) = 1684.5 sf  
 GARAGE (TO O.S. WALLS) = 538.25 sf  
 TOTAL F.A. THIS FLOOR = 2222.75 sf  
 STAIR AREA = 74 SF



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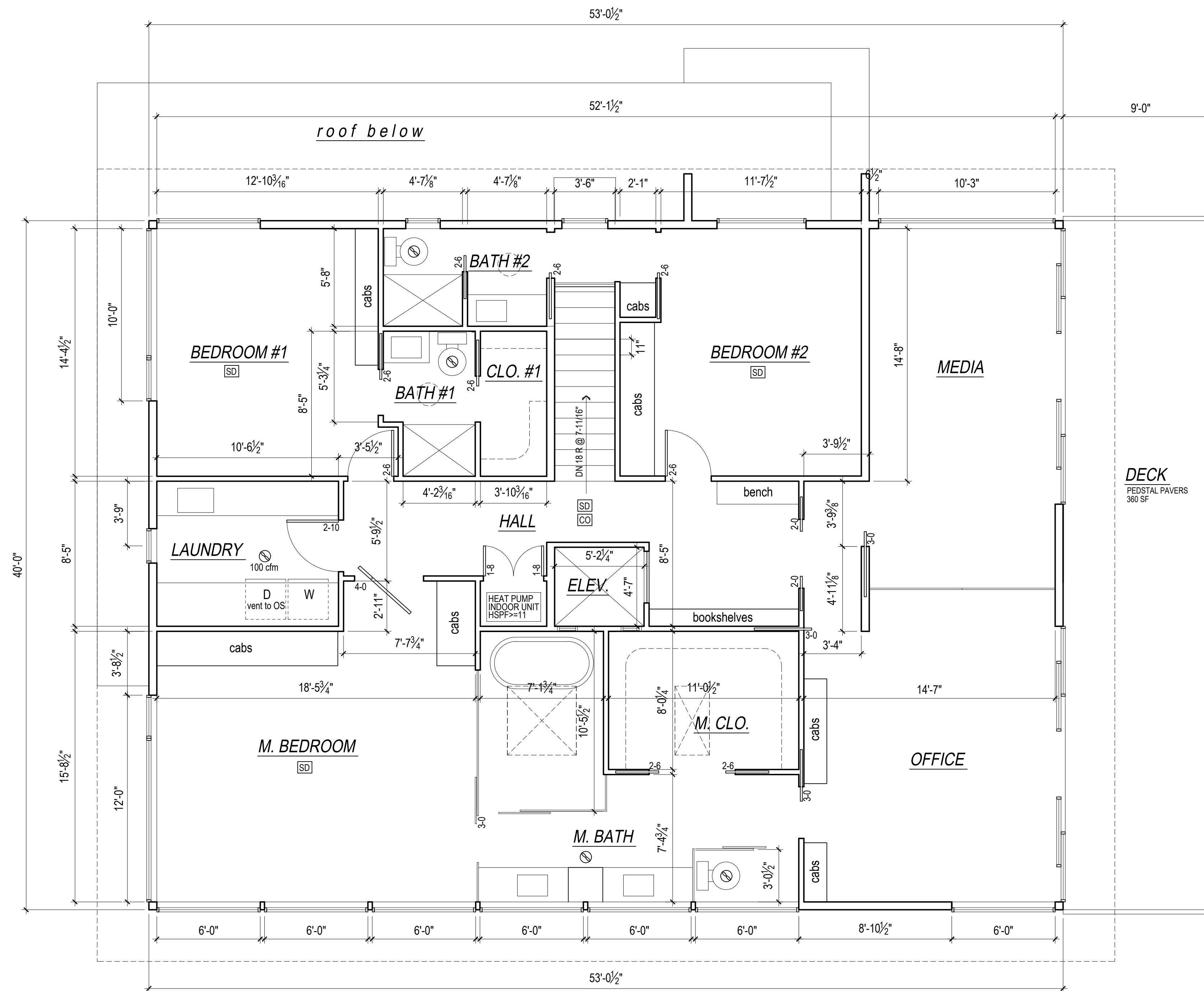
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CONTENTS  
 Main Floor

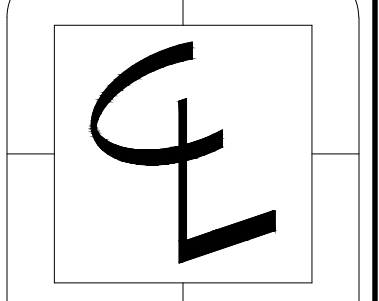
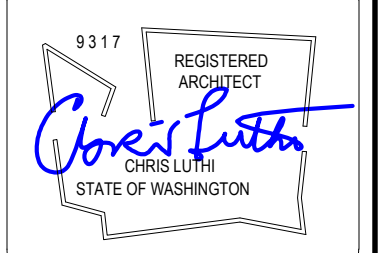
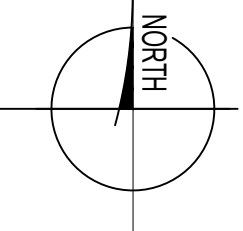
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**A. UPPER FLOOR PLAN**  
 1/4" = 1'-0"  
 FLOOR AREA (TO O.S. WALLS) = 2120 sf



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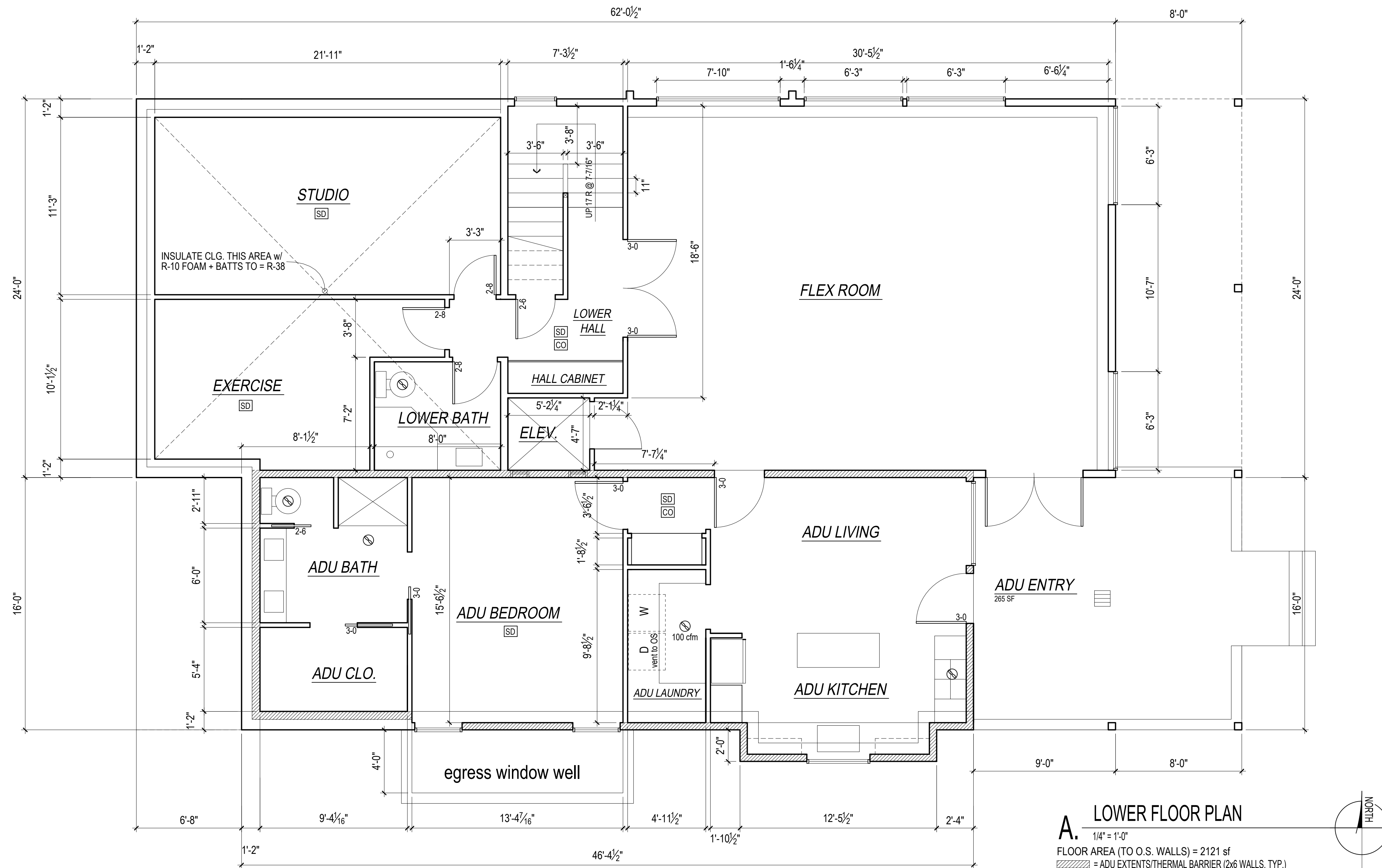
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CONTENTS  
 Upper Floor

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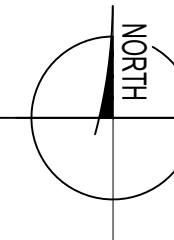
**NOTES**

- SD** = SMOKE DETECTOR, HARDWIRE, INTERCONNECTED w/ BATTERY BACK-UP
- CO** = CARBON MONOXIDE DETECTOR, HARDWIRE w/ BATTERY BACK-UP
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- DOORS ARE 3-0 x 6-8 (r.o. = 3'-2" x 6'-10") unless otherwise indicated
- = FAN, 50 CFM UNLESS OTHERWISE INDICATED
- FOR SHEAR WALL INFORMATION SEE STRUCTURAL PLANS
- ALL INTERIOR WALLS TO BE 2x4, EXTERIOR WALLS 2x6, EXCEPT AS INDICATED, OR EXISTING
- E** = EGRESS WINDOWS
- Contractor shall verify to Inspector all guards and railings shall be capable of resisting 200 lb load on top rail acting in any direction as required by IRC Table R301.5.
- ALL WALLS FULL HEIGHT UNLESS OTHERWISE INDICATED
- T** = TEMPER/SAFETY GLAZE WINDOWS
- ALL GAS F.P. TO BE APPROVED DIRECT VENT



**A. LOWER FLOOR PLAN**

1/4" = 1'-0"  
 FLOOR AREA (TO O.S. WALLS) = 2121 sf  
 ADU EXTENTS THERMAL BARRIER (2x6 WALLS, TYP.)  
 ADU FLOOR AREA = 770.5 SF  
 PRIMARY RESIDENCE FLOOR AREA = 1485.5 SF  
 TOTAL FLOOR AREA = 2296 SF  
 EXCEPTED F.A. FOR BASEMENT = 1504.22 sf  
 CHARGEABLE F.A. = 751.8 sf

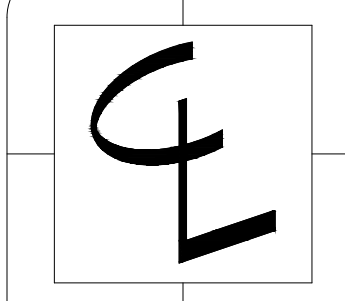
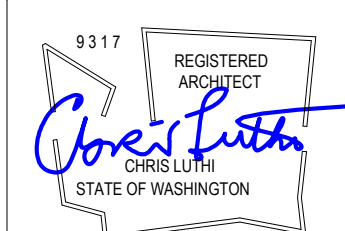


**FOAM INSULATION NOTES**

Closed cell spray foam directly applied to underside of sheathing (min R-10) + batts to = r-49 (R-38 min. @ vaulted areas)  
 Spray foam product to be "Spraytite 178" as manufactured by BASF (ESR-2642), or equal.  
 Spray foam insulation shall be installed per IRC 806.5.1.3.  
 A copy of the ICC ESR report for the product used must be provided on the job site for field inspector verification  
 The applied spray foam must be installed by a certified installer.

**ADU CLG. SOUND/FIRE REQUIREMENTS**

Provide sound insulation (STC rating of at least 45 & ICC rating of at least 50) and 1 hr fire resistance in the entire ADU ceiling (including under stairs) . See ESR-1153 Assembly B.  
 Requirements:  
 1. 48/24 tongue-and-groove span rated sheathing (Exposure 1).  
 1. Two layers of 1/2 inch thick Type X gypsum board.  
 2. TJI Joist.  
 3. Optional minimum 3-1/2 inch thick glass fiber insulation or non-combustible insulation that is rated R-30 or less, with resilient channels



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**CONTENTS**

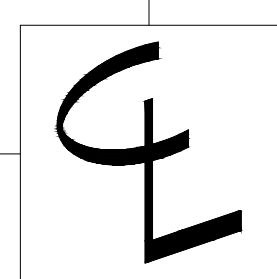
Lower Floor

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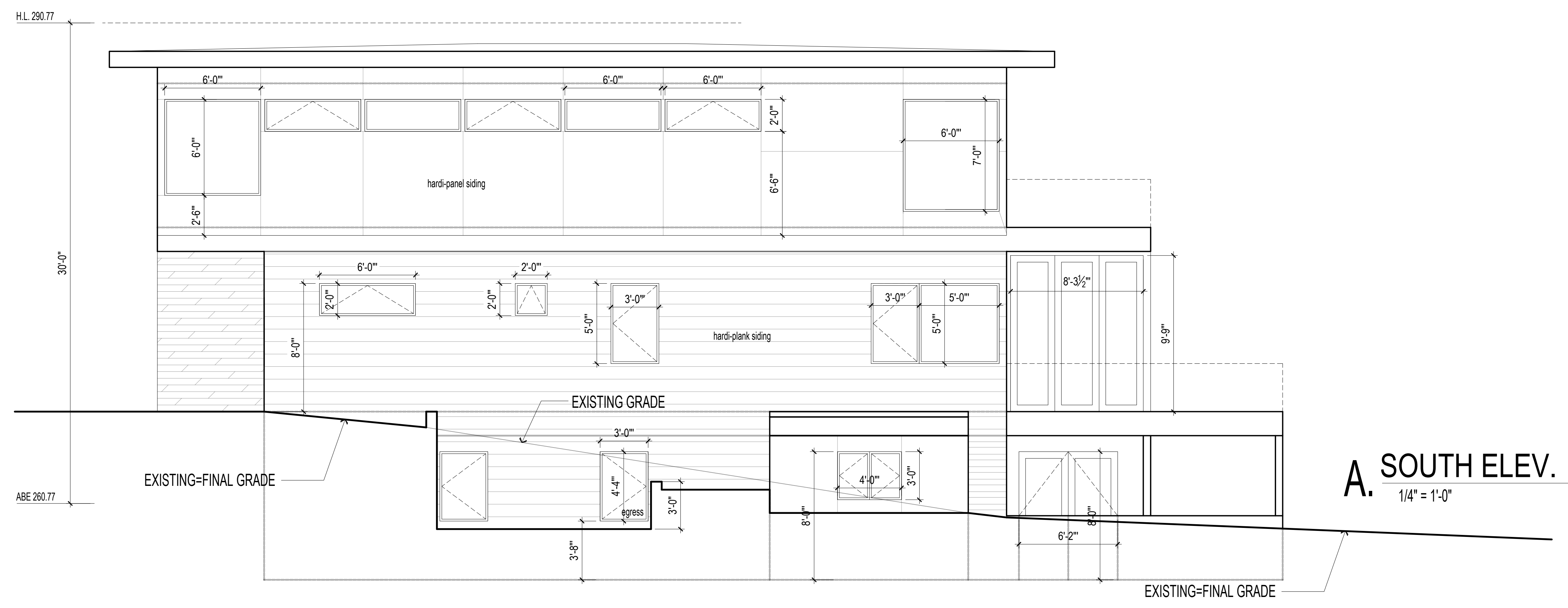
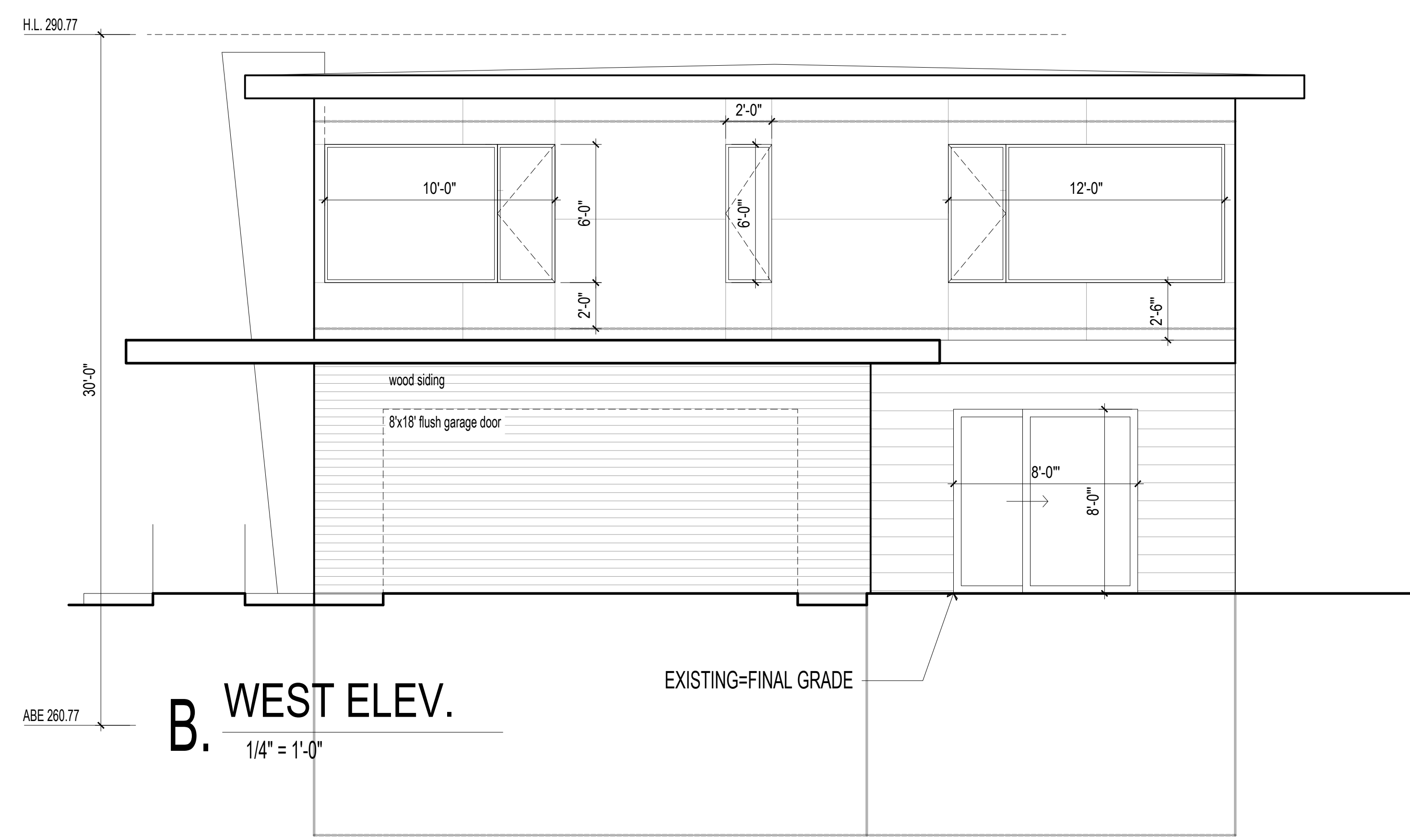
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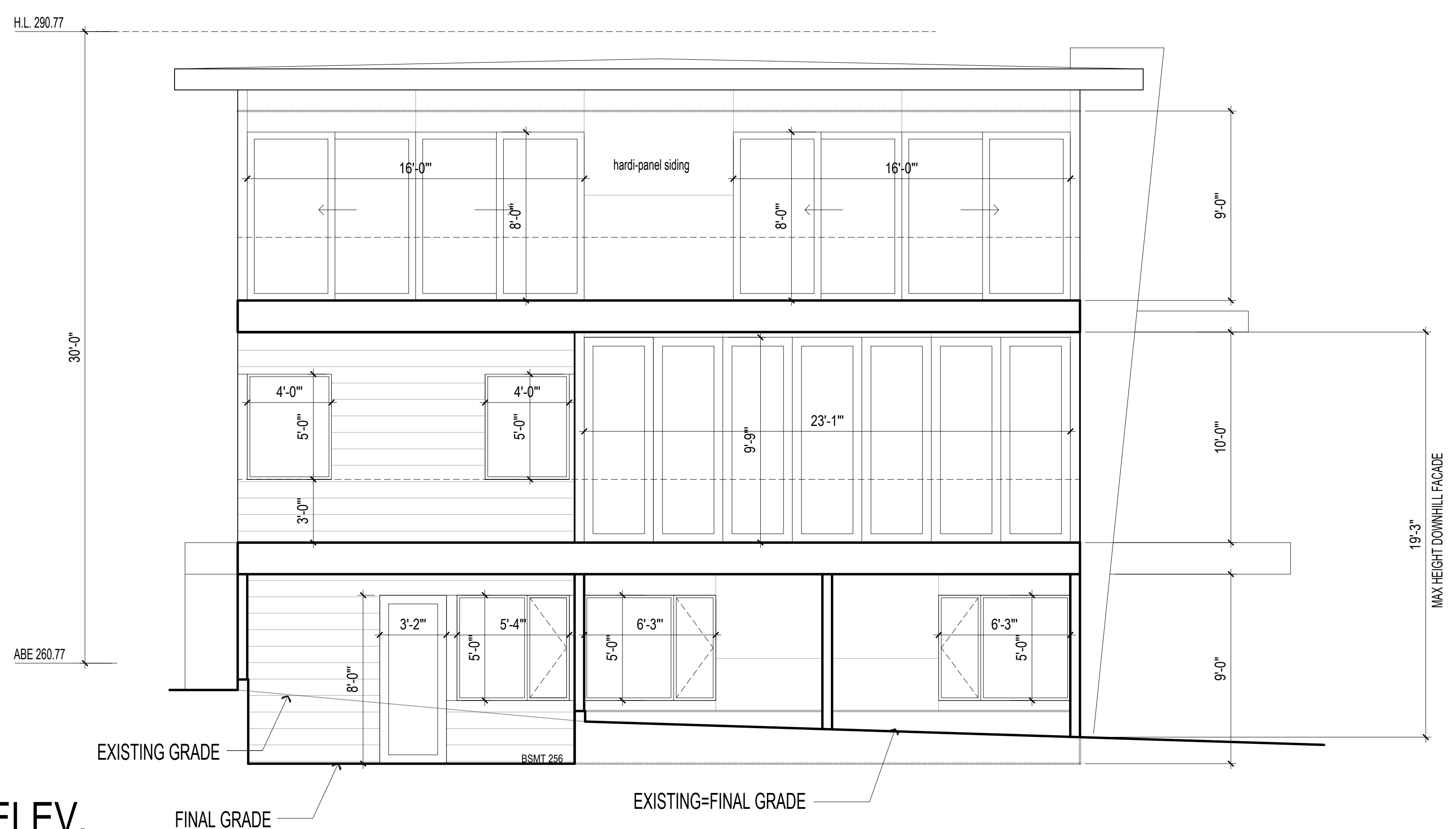
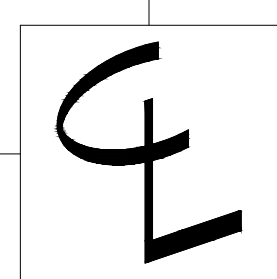


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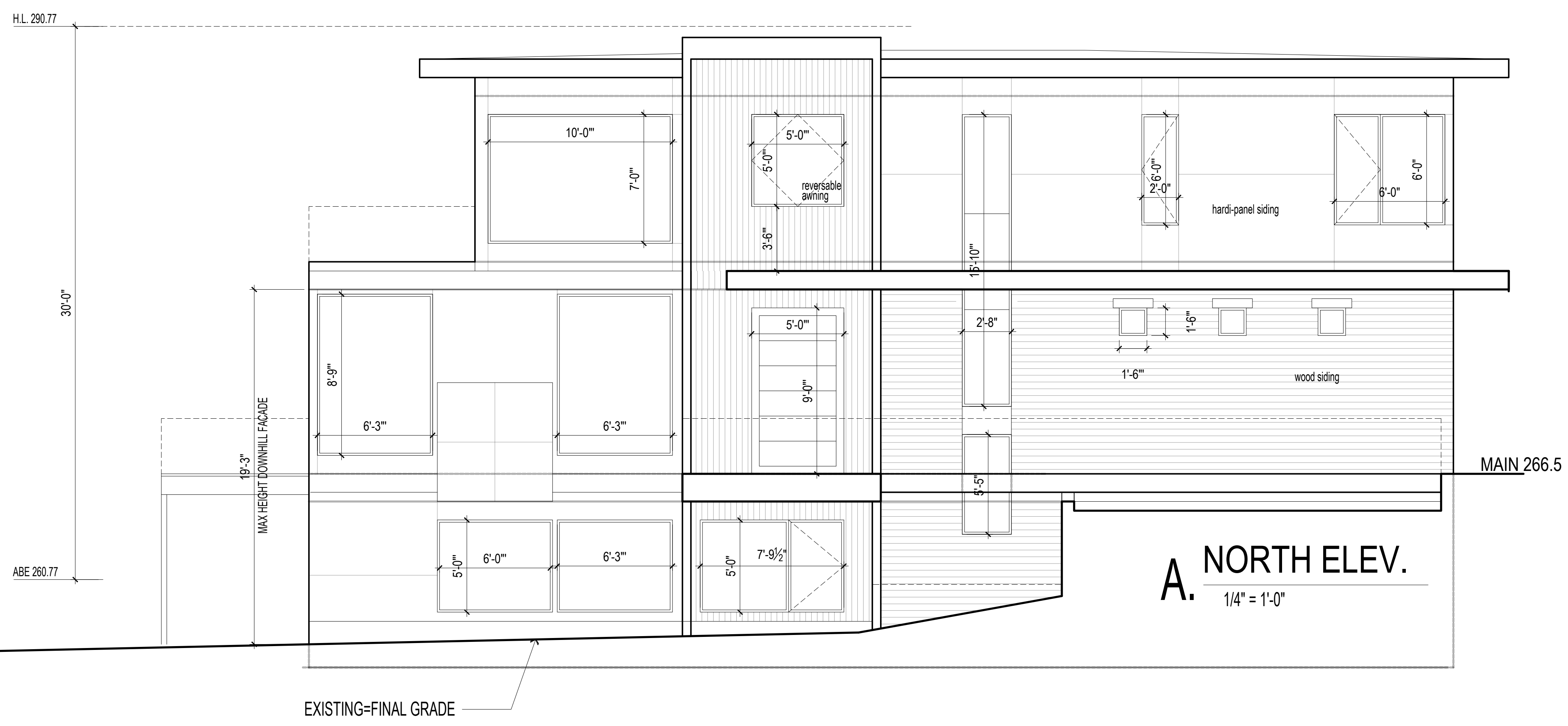
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 Elevations

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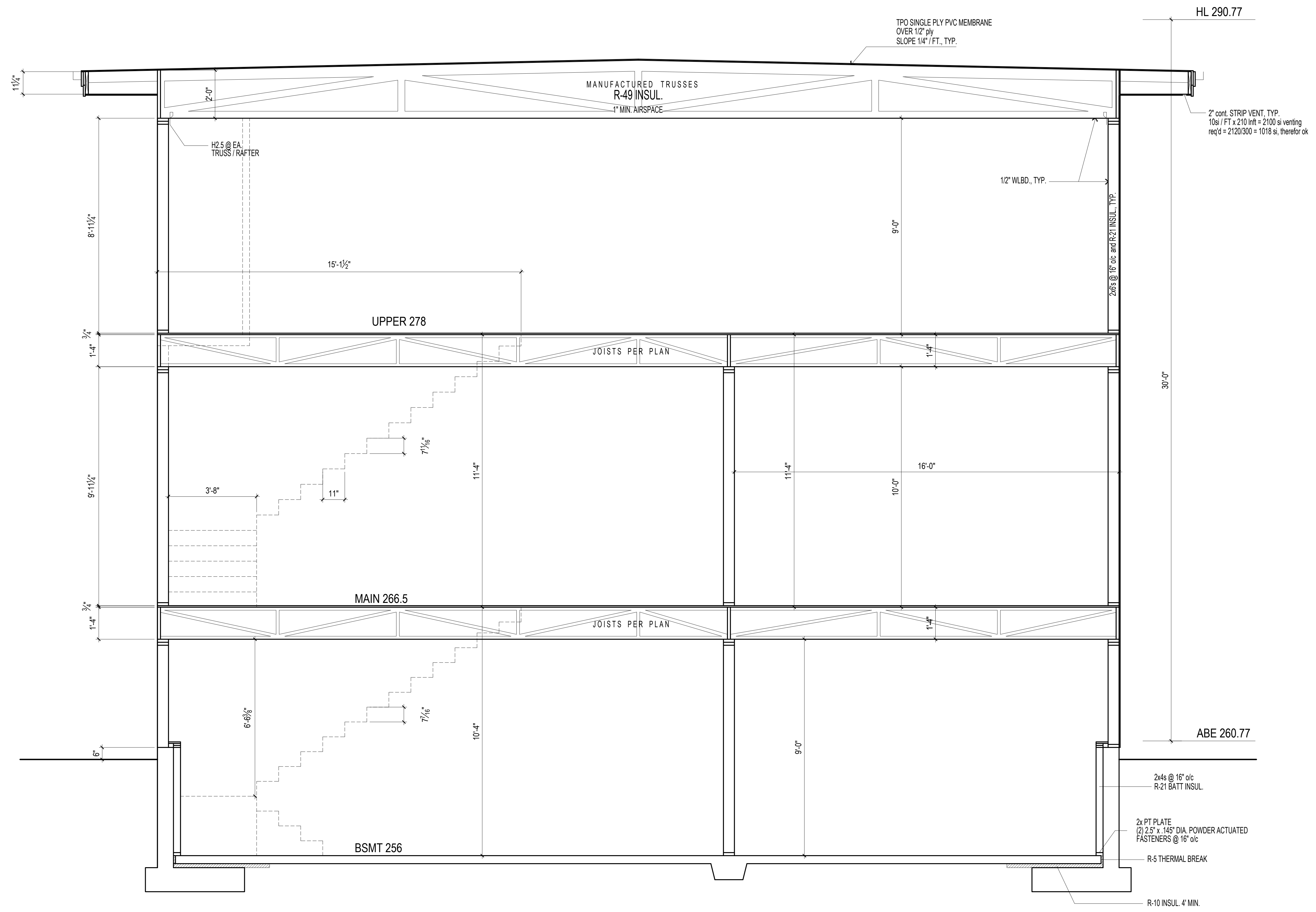


**B. EAST ELEV.**  
 1/4" = 1'-0"

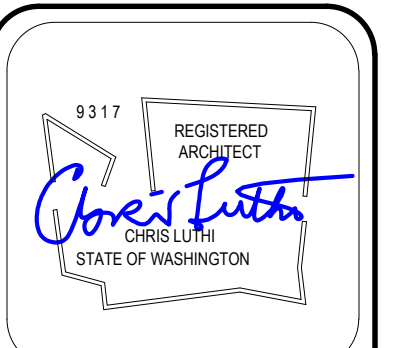


**A. NORTH ELEV.**  
 1/4" = 1'-0"





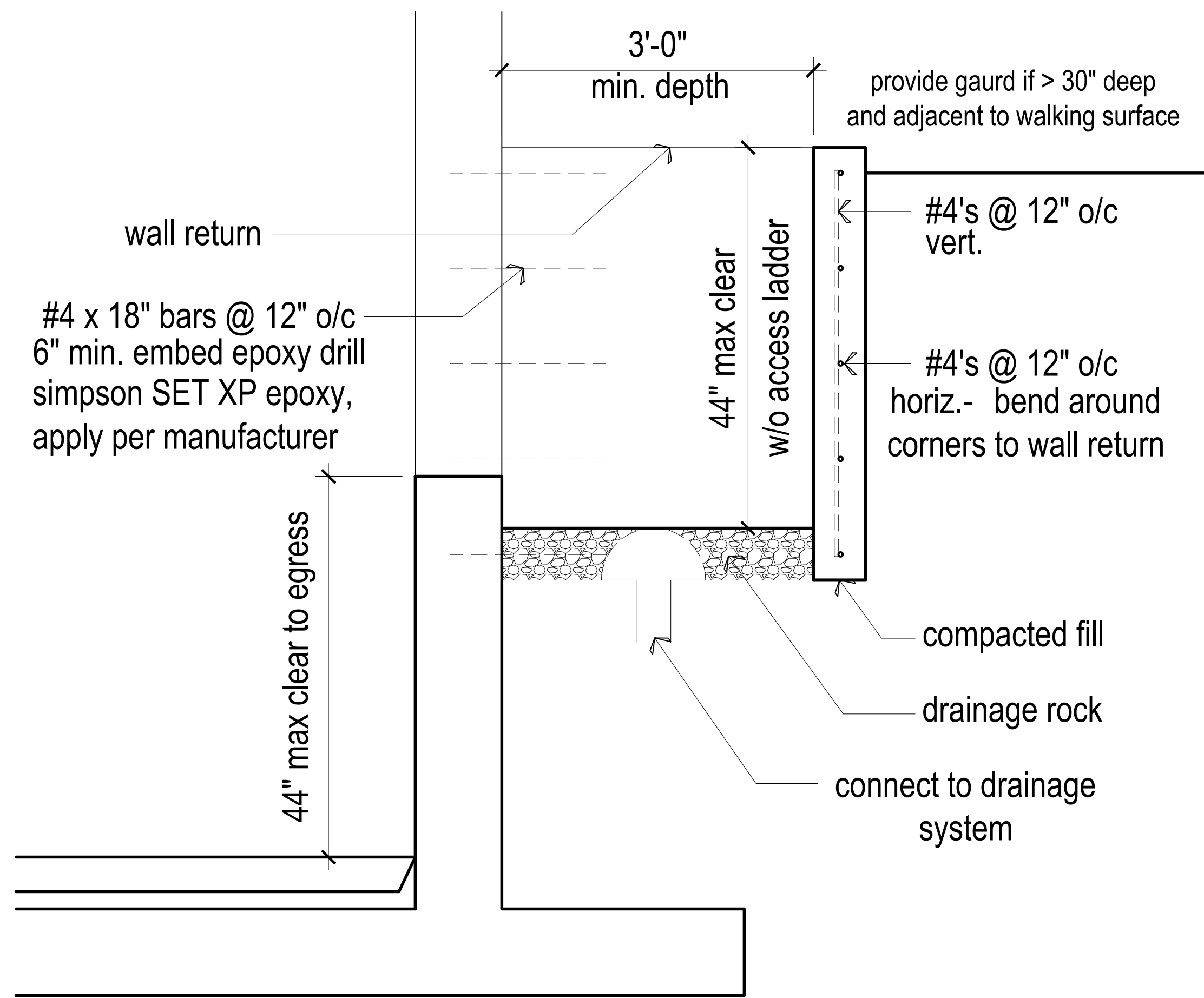
**A. TYP. BUILDING SECTION**  
 1/2" = 1'-0"



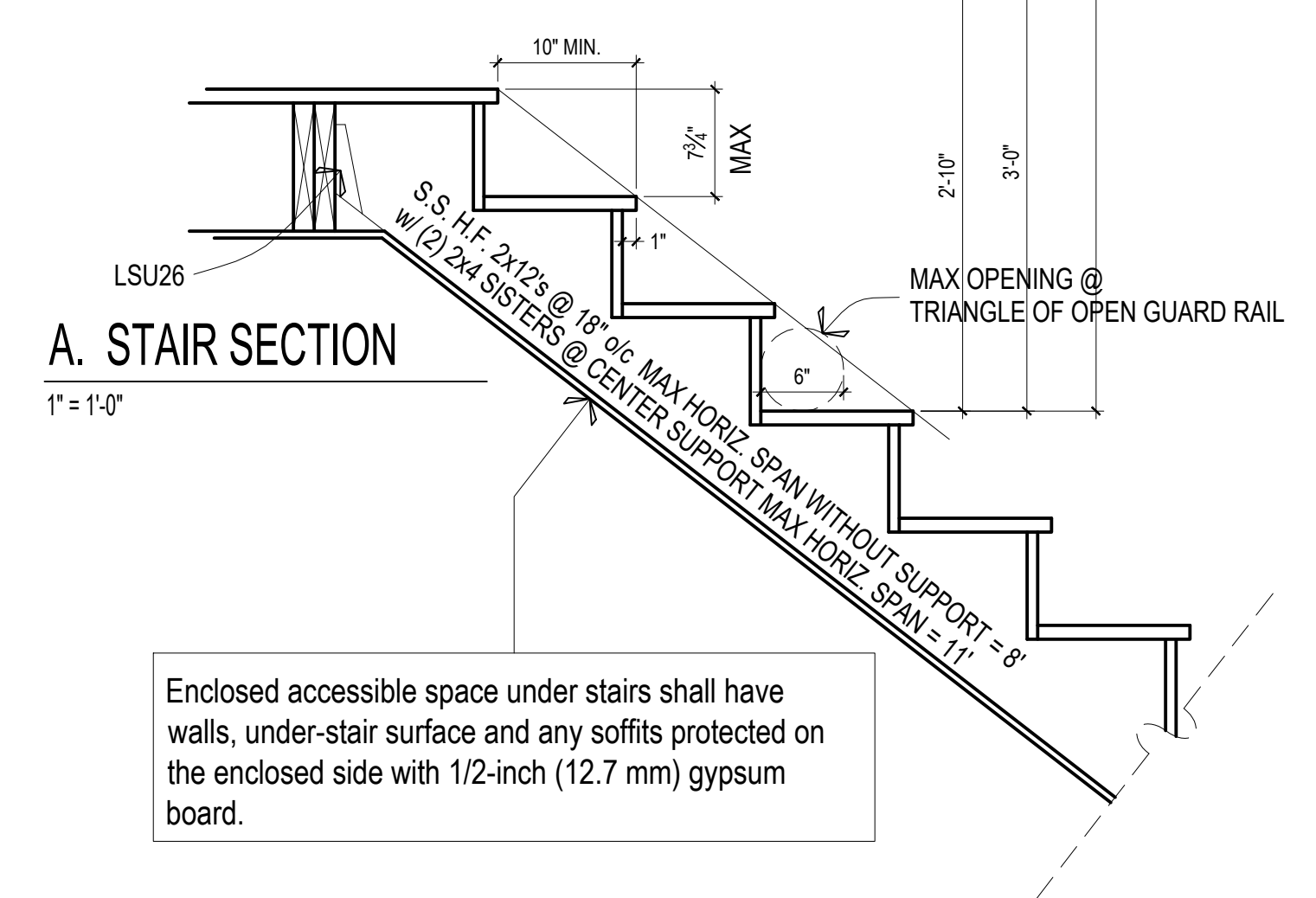
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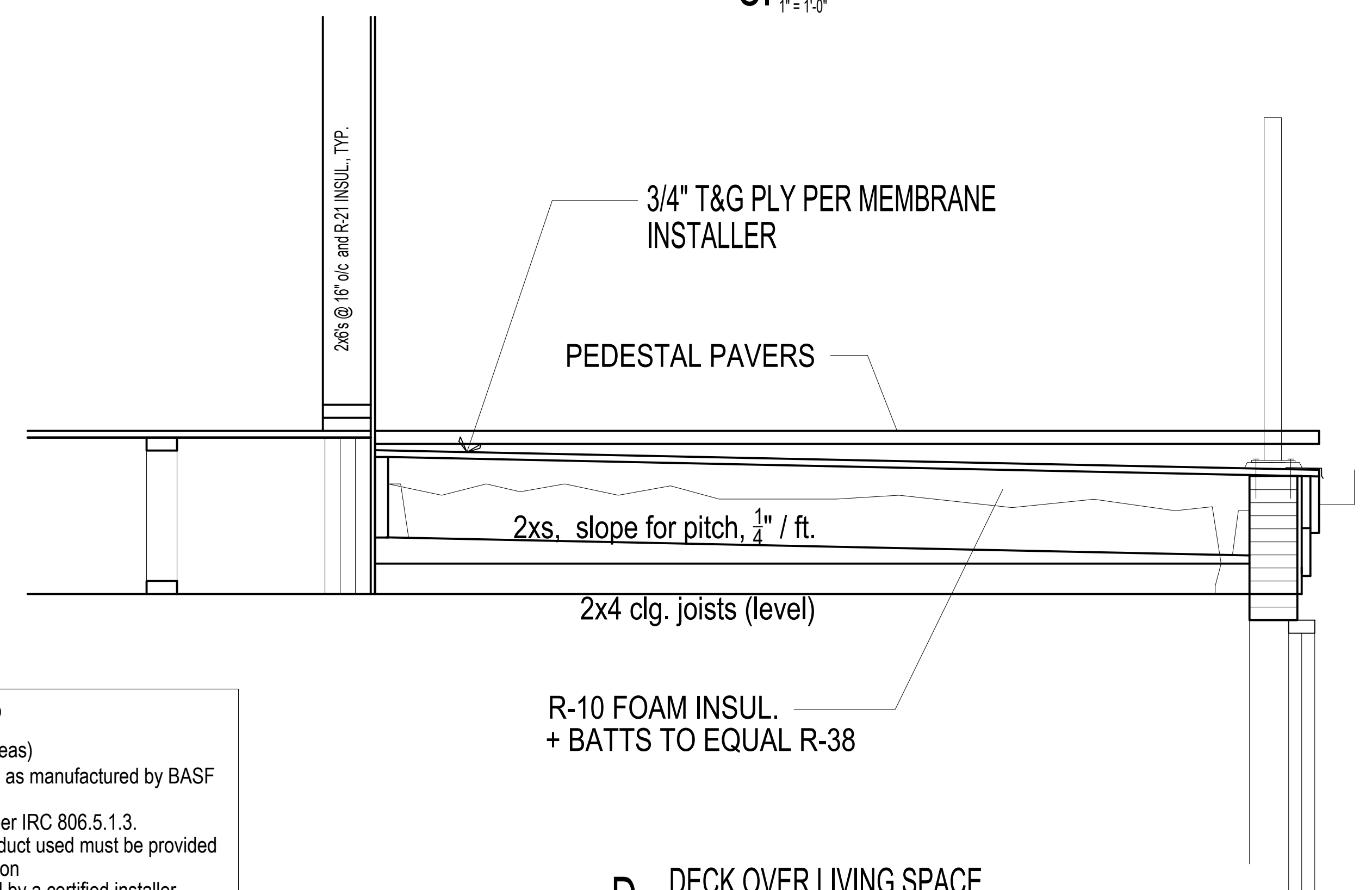
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MIN. STAIRWAY WIDTH = 3'-0" CLEAR  
 STAIR RISE, RUN AND NOSING CANNOT VARY BY MORE THAN 3/8"  
 HANDRAIL TERMINATIONS MUST RETURN TO WALL

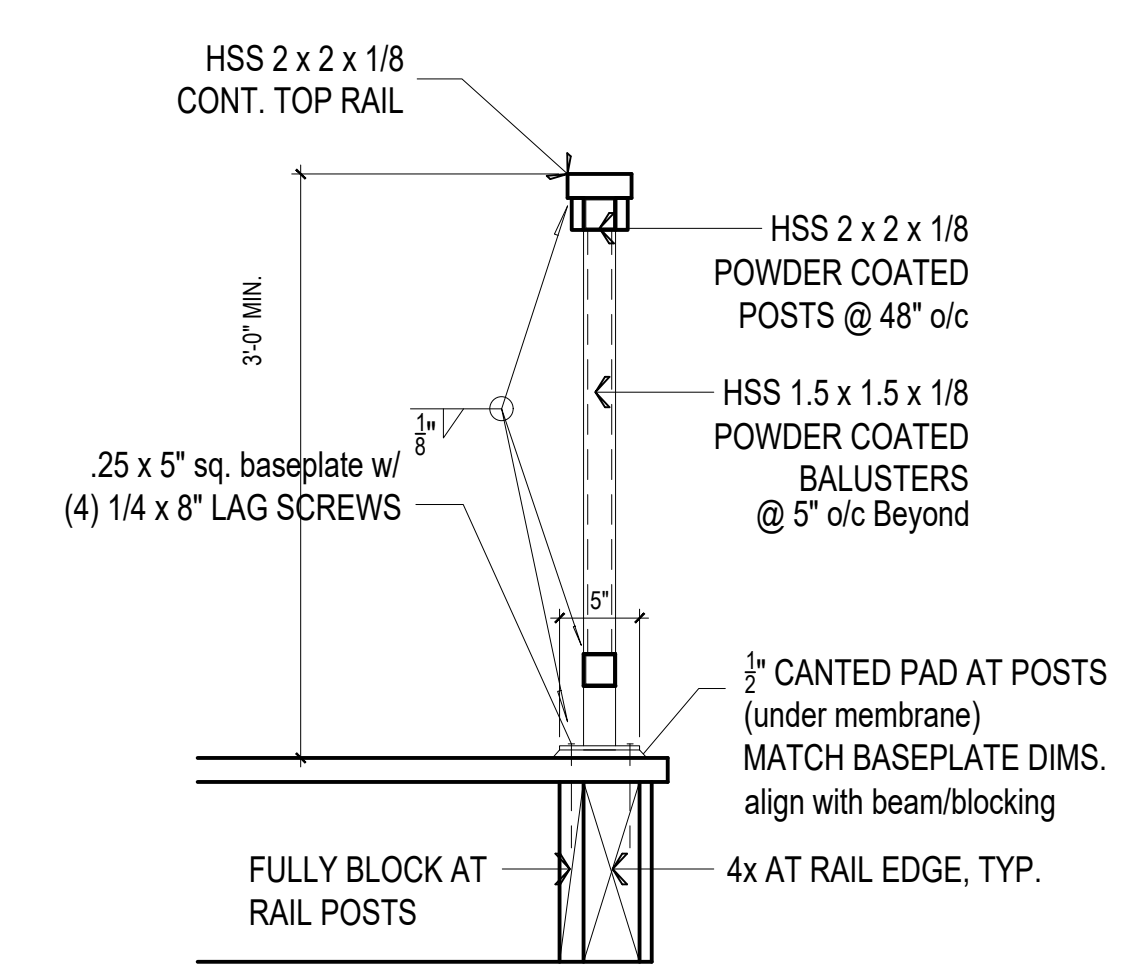


C. WINDOW WELL DETAIL  
 1" = 1'-0"

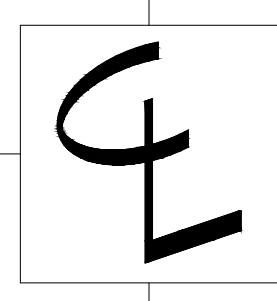


**FOAM INSULATION NOTES**  
 Closed cell spray foam directly applied to underside of sheathing (min R-10)  
 + batts to = r-49 (R-38 min. @ vaulted areas)  
 Spray foam product to be "Spraytite 178" as manufactured by BASF (ESR-2642), or equal.  
 Spray foam insulation shall be installed per IRC 806.5.1.3.  
 A copy of the ICC ESR report for the product used must be provided on the job site for field inspector verification  
 The applied spray foam must be installed by a certified installer.

D. DECK OVER LIVING SPACE  
 1" = 1'-0"



B. RAILING DETAIL  
 1" = 1'-0"

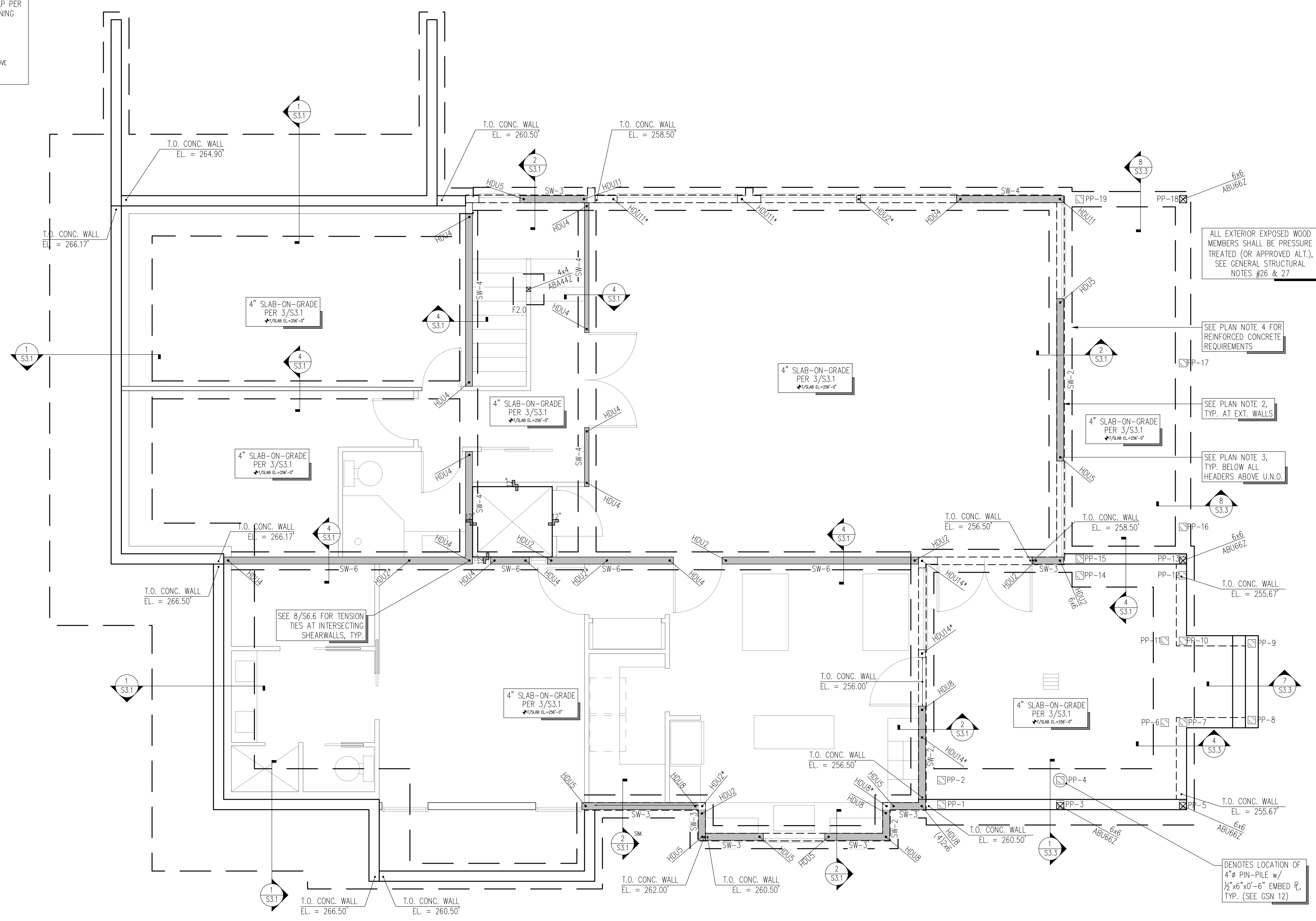






**LEGEND**

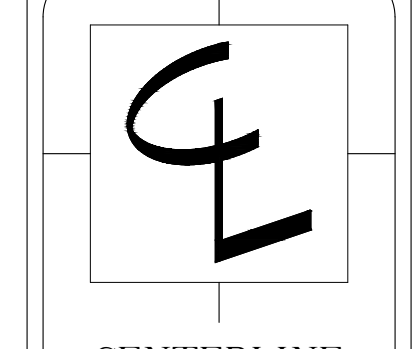
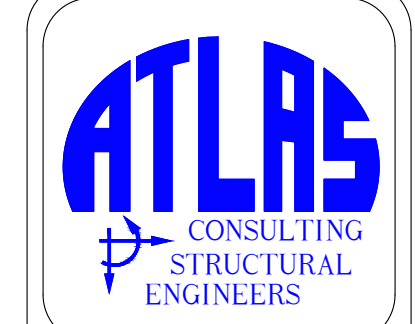
	CONCRETE FOOTING		DENOTES SPREAD FOOTING PER 5/S3.1
	CONCRETE WALL		POST ABOVE
	STEP IN FOOTING PER 9/S3.1		DENOTES EXTENT OF SHEARWALL TYPE SW- PER 1/S6.6
	DENOTES TOP OF FOOTING ELEVATION		DENOTES STRAPPED SHEARWALL PER 7/S6.6, WITH O DENOTING STRAP PER SCHEDULE ABOVE & BELOW OPENING
	STRUCTURAL WOOD STUDWALL BELOW		DENOTES SHEARWALL TENSION TIE PER 4/S6.6
	STRUCTURAL WOOD STUDWALL ABOVE		* - DENOTES TRANSFER TIE FROM TIE ABOVE ^ - DENOTES TIE ATOP FRAMING MEMBER



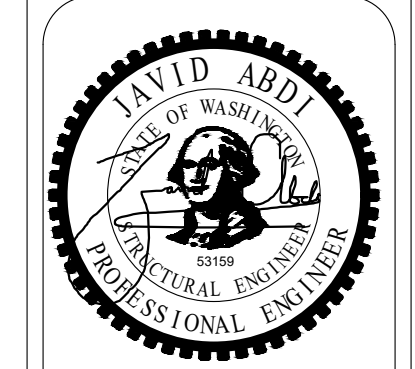
**FOUNDATION & FIRST FLOOR PLAN NOTES**

- SOLID WALLS AND SHEARWALLS SHOWN IN PLAN ARE ABOVE FIRST FLOOR LEVEL (FROM FIRST FLOOR TO SECOND FLOOR).
- EXTERIOR STUDWALLS SHALL BE 2x6 STUDS @ 16" oc (MAX). SEE ARCHITECTURAL FOR INTERIOR STUDWALLS. SEE 6/6.02, 5/S6.2, AND 2/S6.2 FOR ALLOWABLE HOLES & NOTCHES IN STUDWALL STUDS AND TOP & BOTTOM PLATES.
- ALL HEADERS ABOVE (SEE 1/S2.2) SHALL HAVE A MINIMUM NUMBER OF POSTS PER 4/S6.1 AT NON-LOAD BEARING EXTERIOR WALLS, AND PER 6/S6.1 AT LOAD BEARING EXTERIOR WALLS.
- SEE STRUCTURAL GENERAL NOTES #13 - 18 FOR CONCRETE AND CONCRETE REINFORCING REQUIREMENTS.

1 FOUNDATION AND FIRST FLOOR PLAN  
 S2.1 1/4" = 1'-0"  
 NORTH



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 Foundation and Lower Floor Plan

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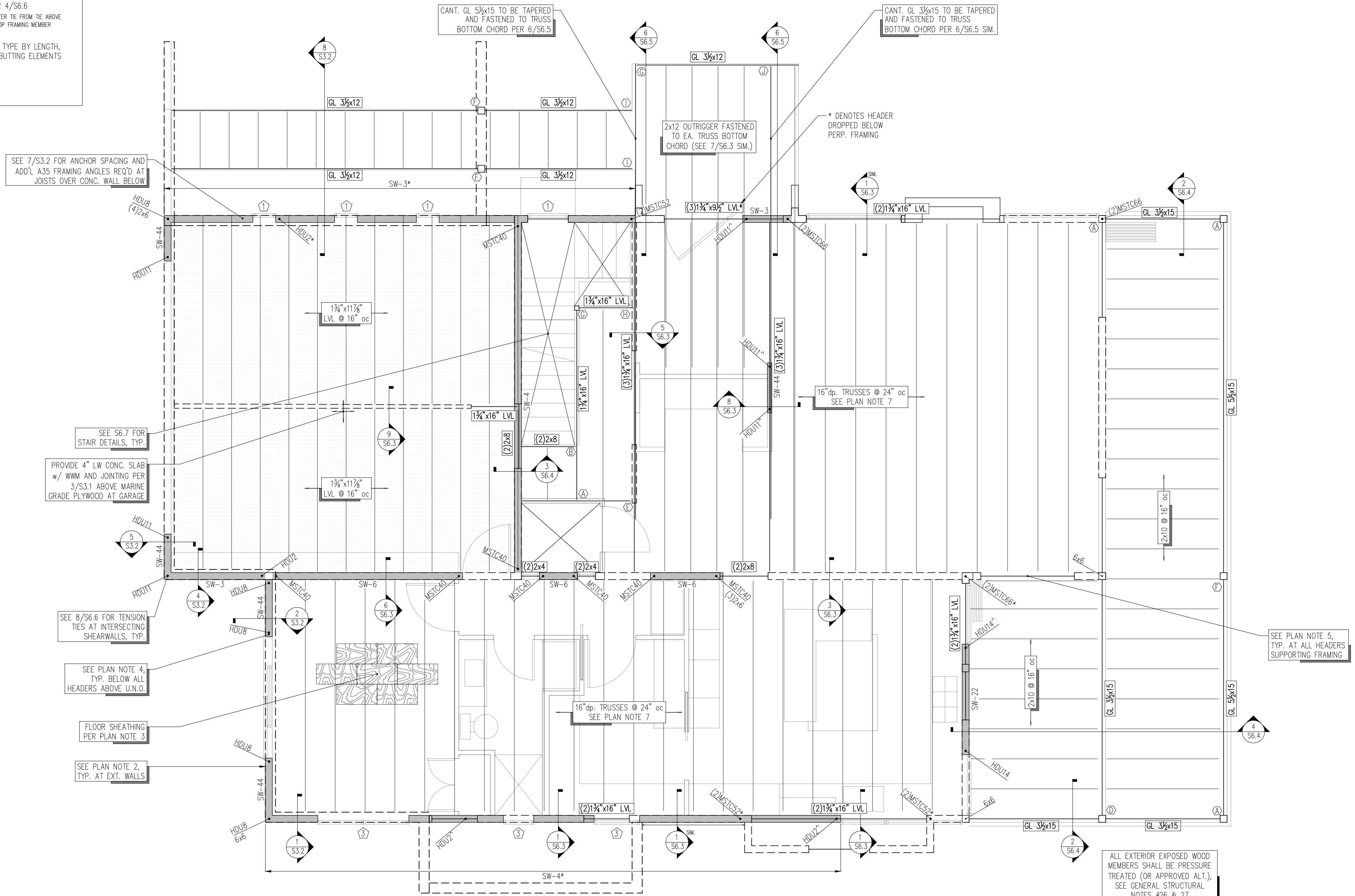
S2.1

**LEGEND**

- STRUCTURAL WOOD STUDWALL BELOW
- STRUCTURAL WOOD STUDWALL ABOVE
- POST BELOW
- POST ABOVE
- WOOD JOIST
- WOOD BEAM or HEADER
- WOOD RAFTER
- SW- DENOTES EXTENT OF SHEARWALL TYPE SW- PER 1/S6.6
- SW- DENOTES STRAPPED SHEARWALL PER 7/S6.6, WITH Q DENOTING STRAP PER SCHEDULE ABOVE & BELOW OPENING
- HDU DENOTES SHEARWALL TENSION TIE PER 4/S6.6
- MSTC DENOTES TENSION TIE FROM TIE ABOVE
- ~ DENOTES TIE AT TOP FRAMING MEMBER
- STRAP x LENGTH DENOTES STRAP TYPE BY LENGTH, CENTERED ON ABUTTING ELEMENTS

**CONNECTOR TABLE**

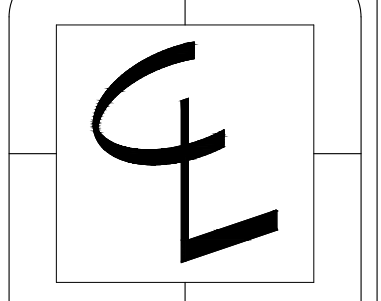
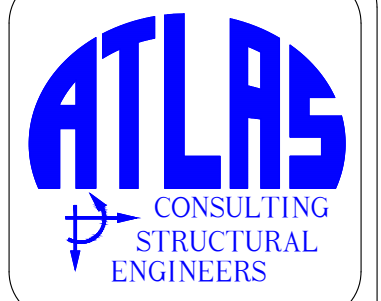
SIMPSON DESIGNATION	NOTES
ECCLQ, ECCRO	L-POST CAP
HUS ~or~ BU	HANGER
HGU ~or~ EGQ	HANGER
CCT	T-POST CAP
IUS ~or~ ITS	HANGER
CCQ	COLUMN CAP
HUCQ	CONCEALED FLANGE HANGER
IUS ~or~ MIT	HANGER
LUS ~or~ HWP	HANGER
HHUS	HANGER



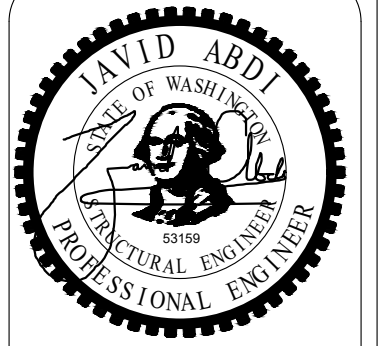
**MAIN FLOOR PLAN NOTES**

- SOLID WALLS AND SHEARWALLS SHOWN IN PLAN ARE ABOVE FRAMING LEVEL. DASHED WALLS SHOWN IN PLAN ARE BELOW FRAMING LEVEL.
- EXTERIOR STUDWALLS SHALL BE 2x6 STUDS @ 16" oc (MAX). SEE ARCHITECTURAL FOR INTERIOR STUDWALLS. SEE 6/6.1, 5/S6.2, AND 2/S6.2 FOR ALLOWABLE HOLES & NOTCHES IN STUDWALL STUDS AND TOP & BOTTOM PLATES.
- FLOOR SHEATHING SHALL CONSIST OF 3/4" T&G SHEATHING (PANEL SPAN RATING 48/24). NAIL SHEATHING AT ALL FRAMED PANEL EDGES, DIAPHRAGM BOUNDARIES, BLOCKING, AND SHEAR WALLS w/ 10d @ 6" oc; AND AT ALL INTERMEDIATE SUPPORTS w/ 10d @ 12" oc (SEE 3/S6.2). GLUE SHEATHING AT ALL SUPPORTS w/ ADHESIVE CONFORMING TO ASTM SPECIFICATION D3498.
- ALL HEADERS ABOVE (SEE 1/S2.3) SHALL HAVE A MINIMUM NUMBER OF POSTS PER 4/S6.1 AT NON-LOAD BEARING EXTERIOR WALLS, AND PER 6/S6.1 AT LOAD BEARING EXTERIOR WALLS
- HEADERS IN EXTERIOR WALLS SHALL BE PER DETAIL 6/S6.1 U.N.O. IN PLAN.
- AT AREA(S) INDICATED AS BLOCKED DIAPHRAGM, INSTALL 2x FLAT BLOCKING AT ALL UNFRAMED PANEL EDGES. NAIL SHEATHING PER PLAN NOTE 3.
- SEE GENERAL STRUCTURAL NOTE #23 FOR FLOOR TRUSS REQUIREMENTS.

1 MAIN FLOOR FRAMING PLAN  
 S2.2 1/4" = 1'-0"  
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 Main Floor Framing Plan

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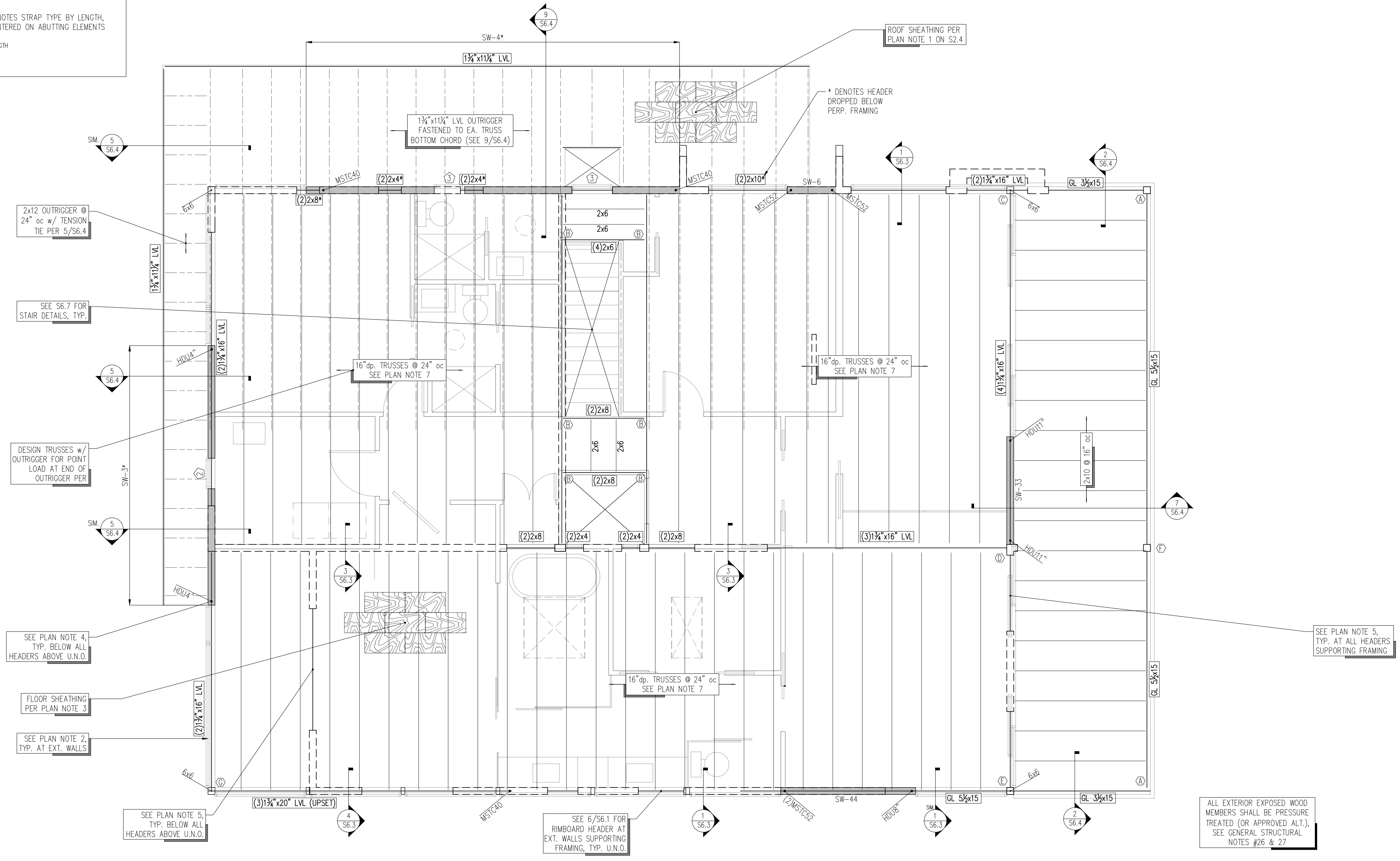
S2.2

**LEGEND**

- STRUCTURAL WOOD STUDWALL BELOW
- STRUCTURAL WOOD STUDWALL ABOVE
- POST BELOW
- POST ABOVE
- WOOD JOIST
- WOOD BEAM or HEADER
- WOOD RAFTER
- DENOTES EXTENT OF SHEARWALL TYPE SW- PER 1/S6.6
- DENOTES STRAPPED SHEARWALL PER 7/S6.6, WITH C DENOTING STRAP PER SCHEDULE ABOVE & BELOW OPENING
- DENOTES SHEARWALL TENSION TIE PER 4/S6.6
- DENOTES TRANSFER TIE FROM TIE ABOVE
- DENOTES TIE AT OP FRAMING MEMBER
- DENOTES STRAP TYPE BY LENGTH, CENTERED ON ABUTTING ELEMENTS
- STRAP x LENGTH

**CONNECTOR TABLE**

SIMPSON DESIGNATION	NOTES
ECCLQ, ECCRO	L-POST CAP
HUS ~gr= BU	HANGER
HGU ~gr= EGQ	HANGER
CCT	T-POST CAP
IUS ~gr= ITS	HANGER
CCQ	COLUMN CAP
HUCQ	CONCEALED FLANGE HANGER
IUS ~gr= MIT	HANGER
LUS ~gr= HWP	HANGER
HHUS	HANGER

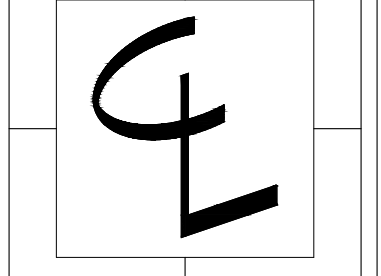
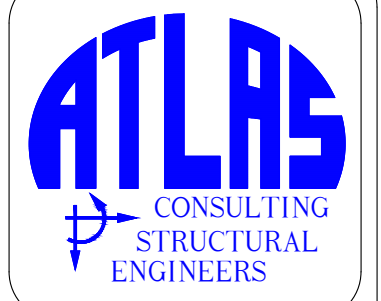


**UPPER FLOOR PLAN NOTES**

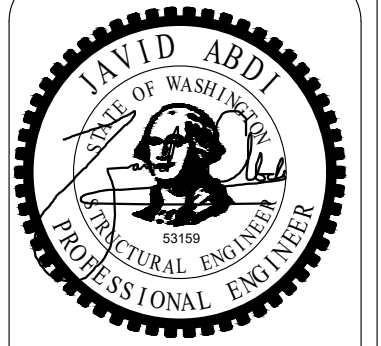
- SOLID WALLS AND SHEARWALLS SHOWN IN PLAN ARE ABOVE FRAMING LEVEL. DASHED WALLS SHOWN IN PLAN ARE BELOW FRAMING LEVEL.
- EXTERIOR STUDWALLS SHALL BE 2x6 STUDS @ 16" oc (MAX). SEE ARCHITECTURAL FOR INTERIOR STUDWALLS. SEE 6/6.1, 5/S6.2, AND 2/S6.2 FOR ALLOWABLE HOLES & NOTCHES IN STUDWALL STUDS AND TOP & BOTTOM PLATES.
- FLOOR SHEATHING SHALL CONSIST OF 3/4" T&G SHEATHING (PANEL SPAN RATING 48/24). NAIL SHEATHING AT ALL FRAMED PANEL EDGES, DIAPHRAGM BOUNDARIES, BLOCKING, AND SHEAR WALLS w/ 10d @ 6" oc; AND AT ALL INTERMEDIATE SUPPORTS w/ 10d @ 12" oc (SEE 3/S6.2). GLUE SHEATHING AT ALL SUPPORTS w/ ADHESIVE CONFORMING TO ASTM SPECIFICATION D3498.
- ALL HEADERS ABOVE (SEE 1/S2.4) SHALL HAVE A MINIMUM NUMBER OF POSTS PER 4/S6.1 AT NON-LOAD BEARING EXTERIOR WALLS, AND PER 6/S6.1 AT LOAD BEARING EXTERIOR WALLS.
- HEADERS IN EXTERIOR WALLS NOT SUPPORTING RAFTERS, JOISTS, OR BEAMS SHALL BE PER DETAIL 4/S6.1 U.N.O. IN PLAN.
- AT AREA(S) INDICATED AS BLOCKED DIAPHRAGM, INSTALL 2x FLAT BLOCKING AT ALL UNFRAMED PANEL EDGES. NAIL SHEATHING PER PLAN NOTE 3.
- SEE GENERAL STRUCTURAL NOTE #23 FOR FLOOR TRUSS REQUIREMENTS.

ALL EXTERIOR EXPOSED WOOD MEMBERS SHALL BE PRESSURE TREATED (OR APPROVED ALT.). SEE GENERAL STRUCTURAL NOTES #26 & 27.

1  
S2.3 UPPER FLOOR FRAMING PLAN  
1/4" = 1'-0"  
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Upper Floor Framing Plan

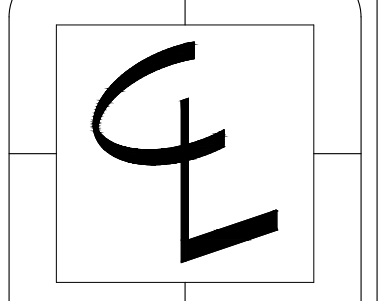
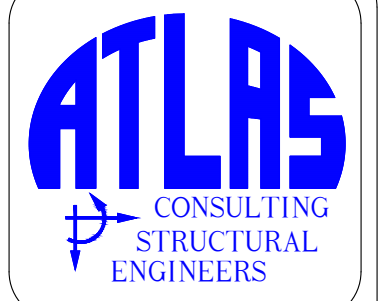
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S2.3

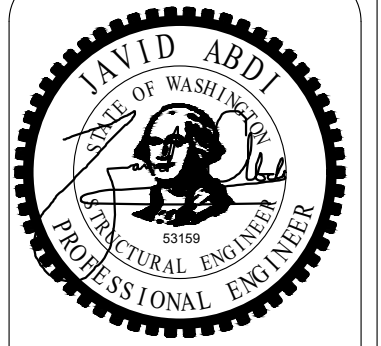
**LEGEND**

- STRUCTURAL WOOD STUDWALL BELOW
- POST BELOW
- - - WOOD RAFTER
- WOOD BEAM or HEADER
- DENOTES STRAP TYPE BY LENGTH, CENTERED ON ABUTTING ELEMENTS
- STRAP x LENGTH

CONNECTOR TABLE		
SIMPSON DESIGNATION		NOTES
Ⓐ	ECCLQ, ECCRO	L-POST CAP
Ⓑ	HUS ~or~ BU	HANGER
Ⓒ	HGU ~or~ EGQ	HANGER
Ⓓ	CCT	T-POST CAP
Ⓔ	IUS ~or~ ITS	HANGER
Ⓕ	CCQ	COLUMN CAP
Ⓖ	HUCQ	CONCEALED FLANGE HANGER
Ⓗ	IUS ~or~ MIT	HANGER
Ⓛ	LUS ~or~ HWPH	HANGER
Ⓜ	HHUS	HANGER



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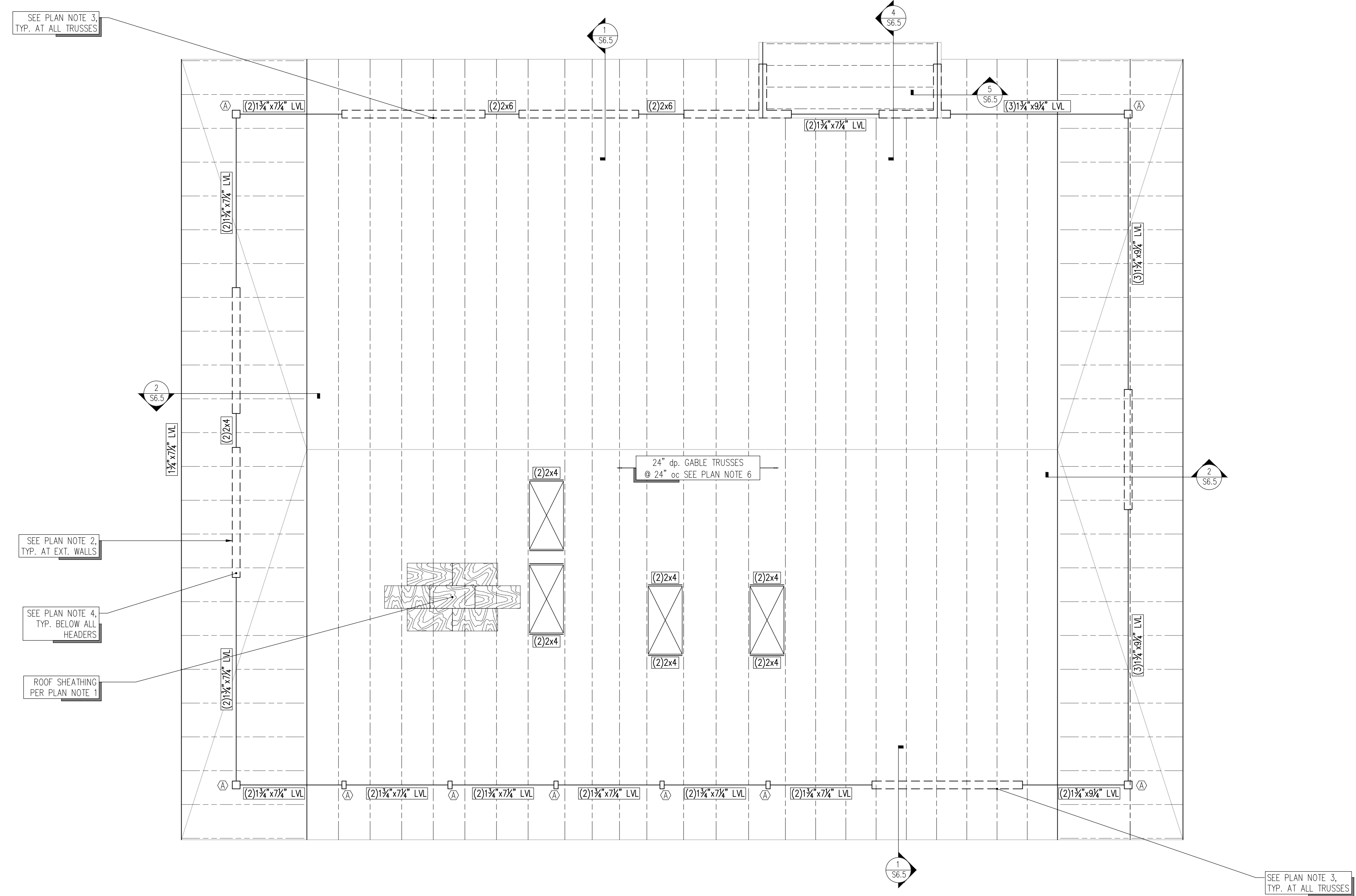


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Roof Framing Plan

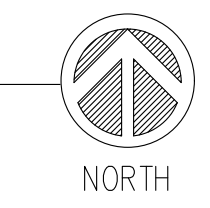
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DATE  
10.18.22

S2.4

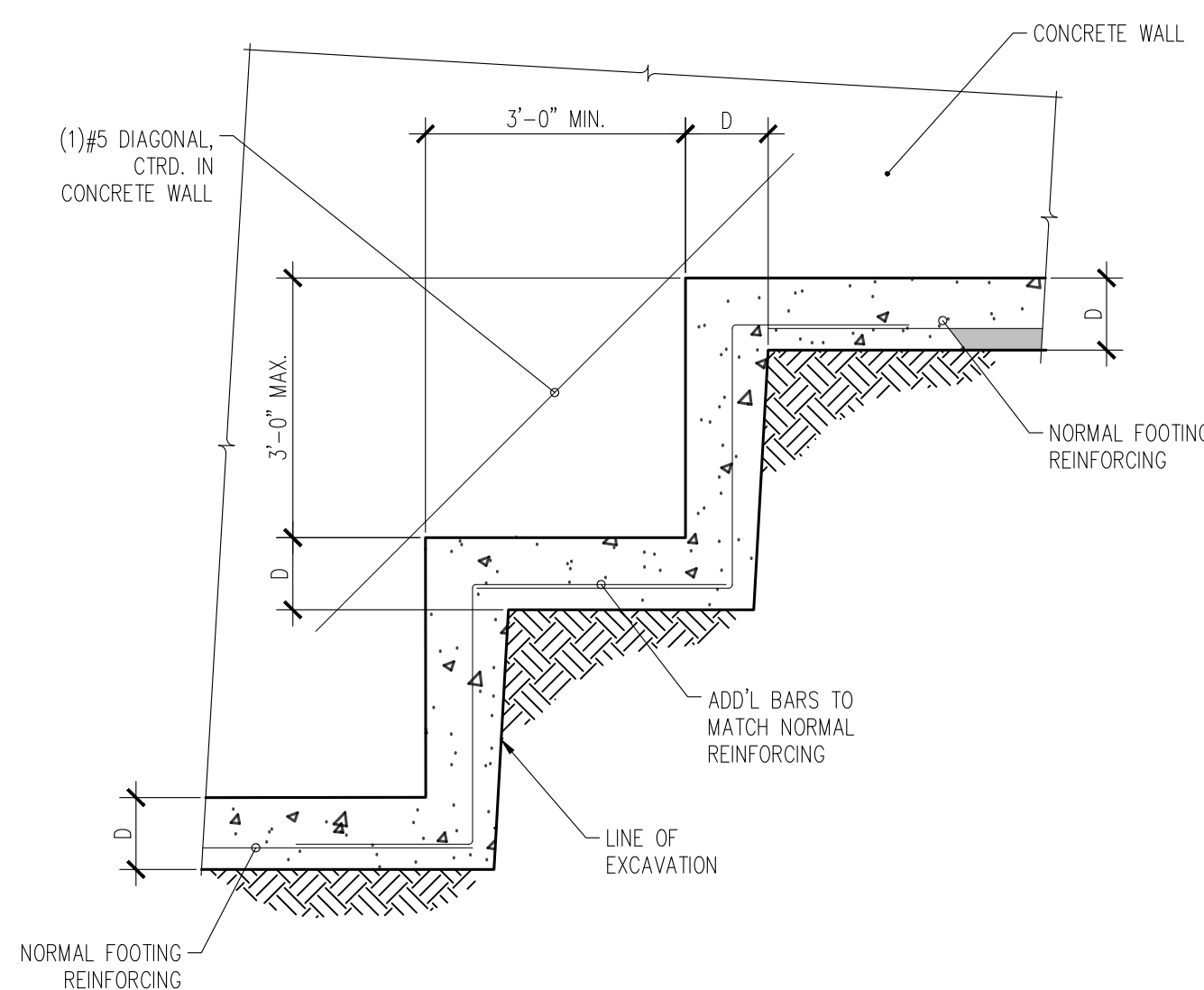


- ROOF PLAN NOTES**
1. ROOF SHEATHING SHALL CONSIST OF 5/8" SHEATHING (PANEL SPAN RATING 32/16) NAILED AT ALL FRAMED PANEL EDGES, DIAPHRAGM BOUNDARIES, BLOCKING, AND SHEAR WALLS w/ 10d @ 6" oc; AND AT ALL INTERMEDIATE SUPPORTS w/ 10d @ 12" oc (SEE 3/S6.2).
  2. DASHED WALLS AND SHEARWALLS SHOWN IN PLAN ARE BELOW ROOF FRAMING ELEVATION (i.e. FROM THIRD FLOOR TO UNDERSIDE OF ROOF).
  3. PROVIDE H2.5A HURRICANE TIES AT END OF ALL EXISTING RAFTERS.
  4. ALL HEADERS SHALL HAVE A MINIMUM NUMBER OF POSTS PER 4/S6.1 AT NON-LOAD BEARING EXTERIOR WALLS, AND PER 6/S6.1 AT LOAD BEARING EXTERIOR WALLS
  5. HEADERS IN EXTERIOR WALLS NOT SUPPORTING RAFTERS, JOISTS, OR BEAMS SHALL BE PER DETAIL 4/S6.1 U.N.O. IN PLAN.
  6. SEE GENERAL STRUCTURAL NOTE #23 FOR ROOF TRUSS REQUIREMENTS.

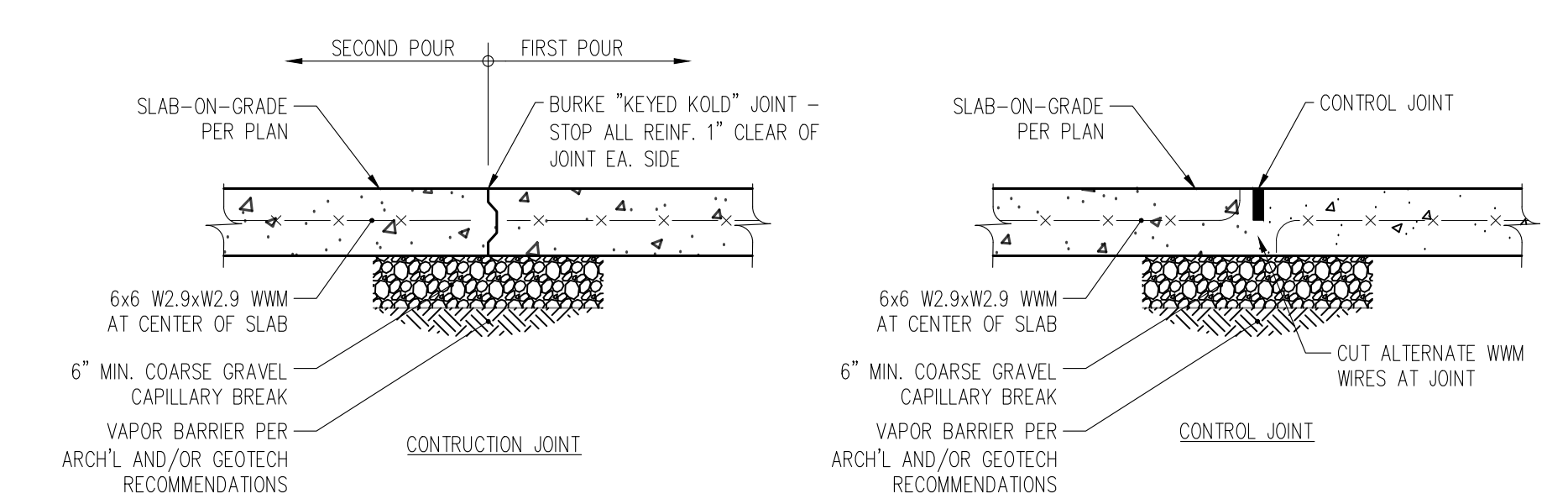
1 ROOF FRAMING PLAN  
S2.4 1/4" = 1'-0"





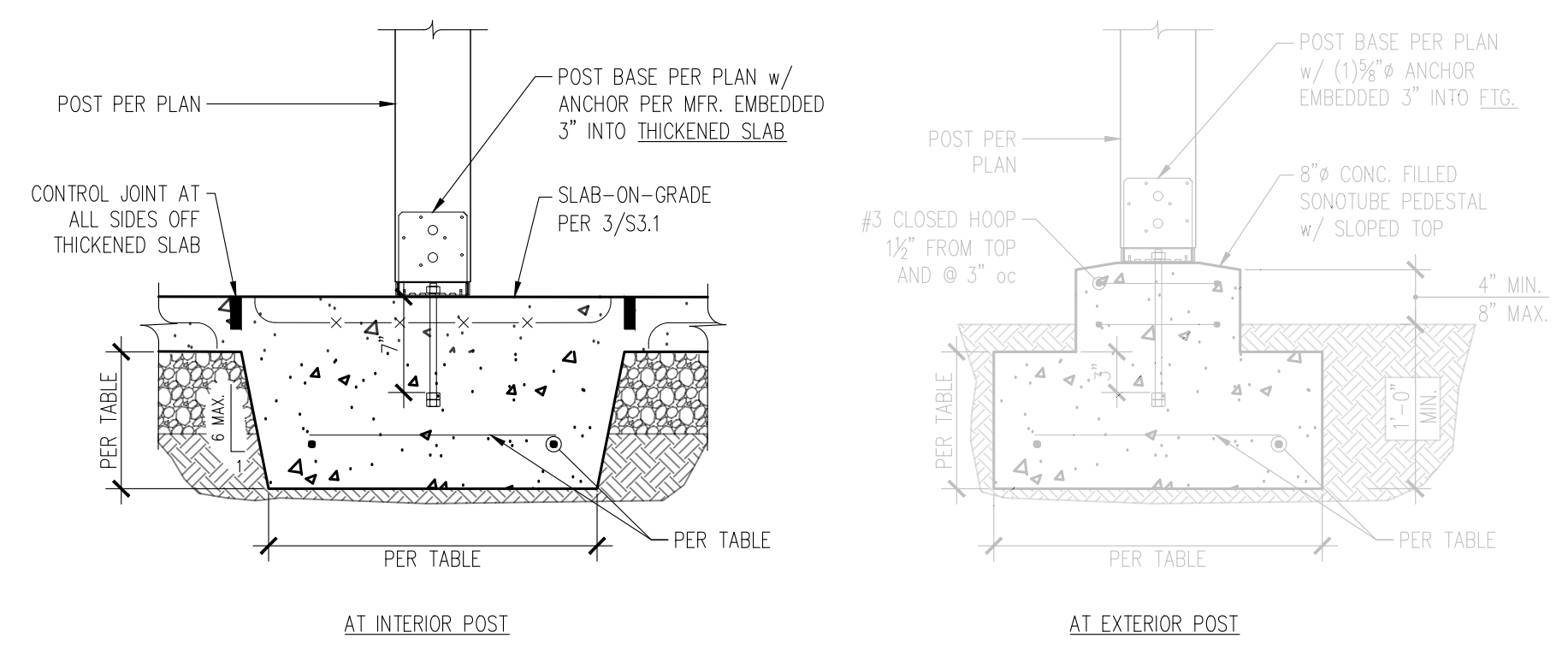


6 TYPICAL STEPPED FOOTING  
S3.1 N.T.S.

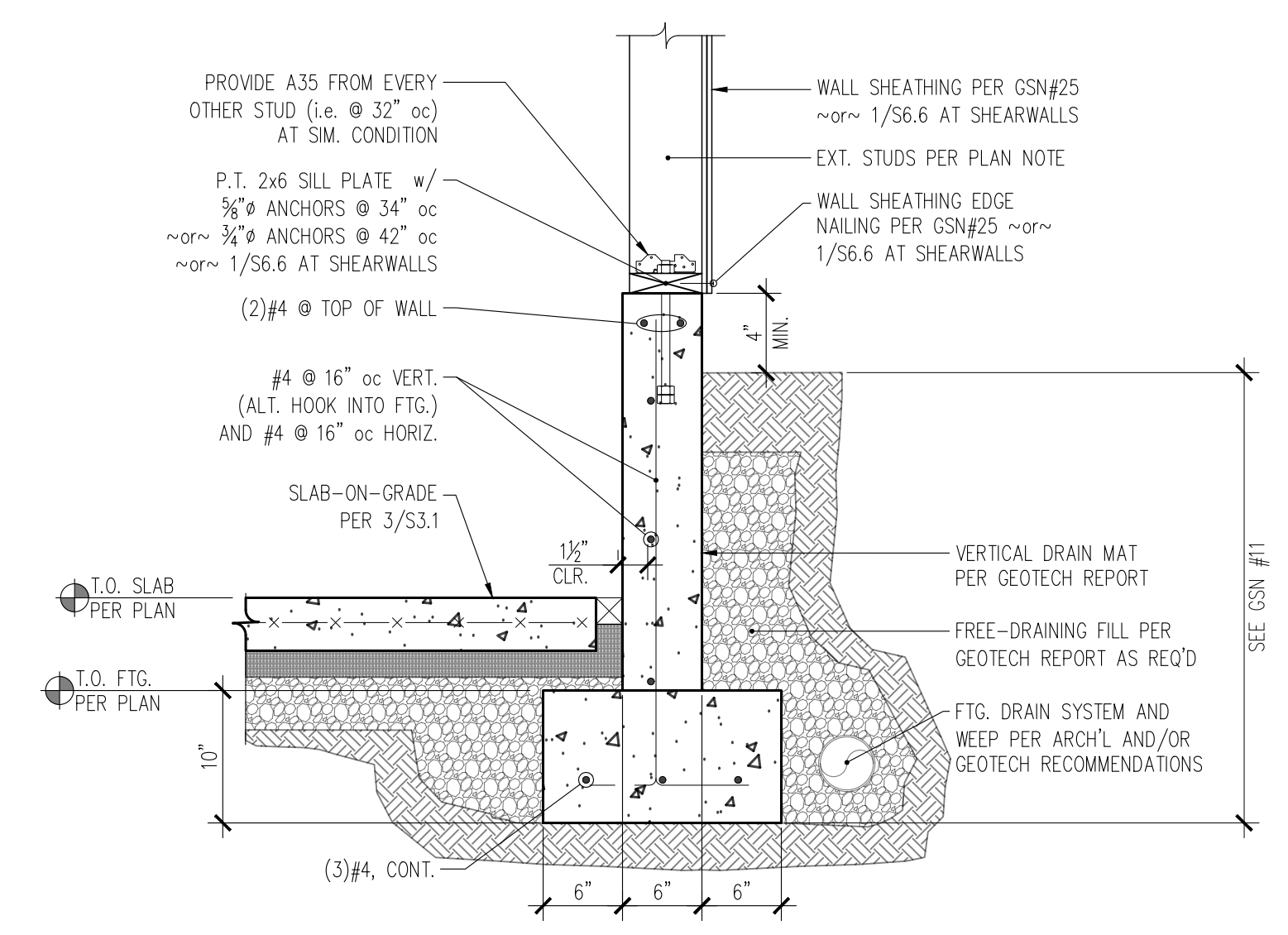


3 TYPICAL SLAB-ON-GRADE JOINTING  
S3.1 1" = 1'-0"

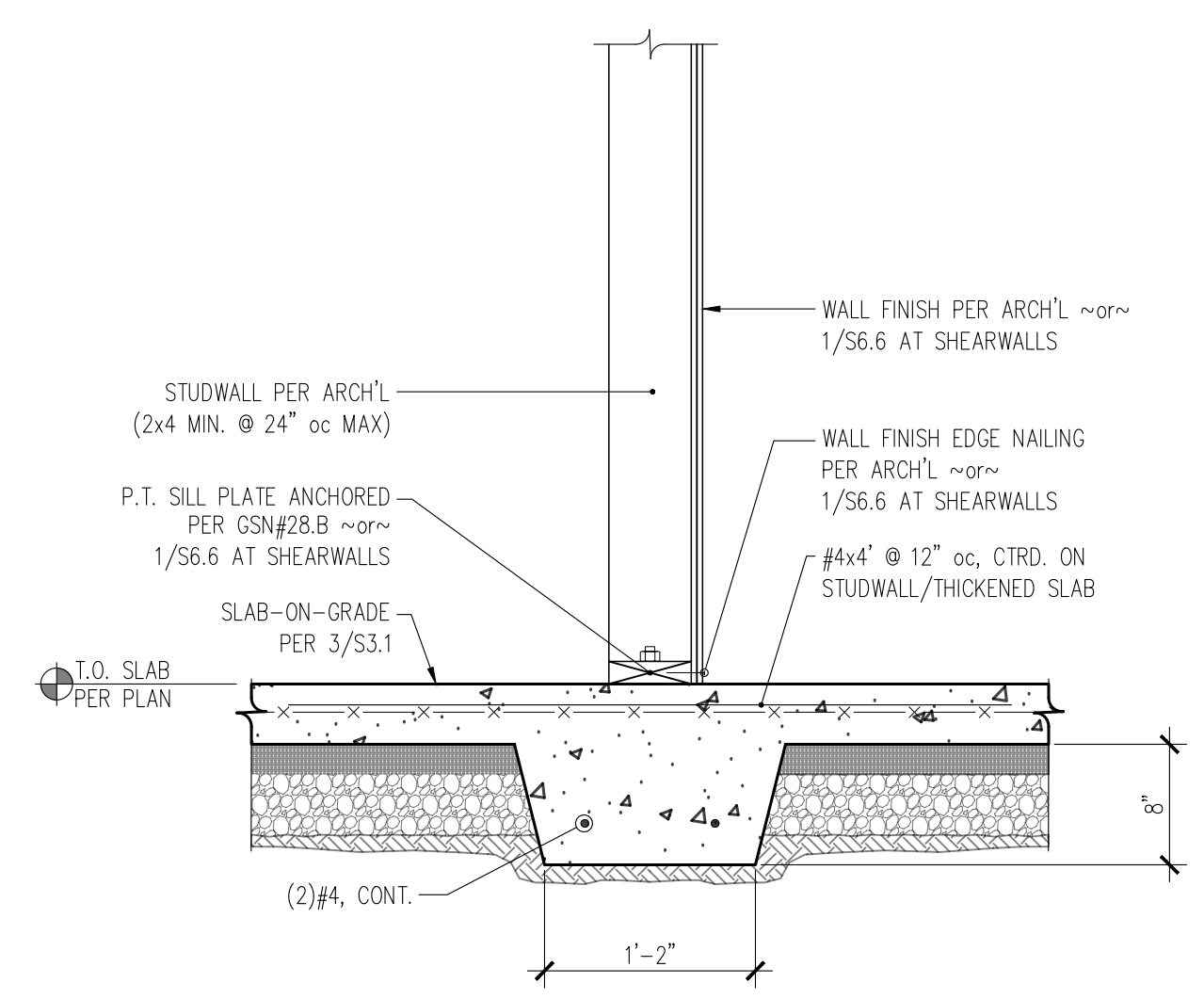
FTG. MARK	DIMENSIONS			REINFORCING DIRECTION	
	LENGTH	WIDTH	DEPTH	SHORT	LONG
F2.0	2'-0"	2'-0"	10"	(3)#4	(3)#4
F2.5	2'-6"	2'-6"	10"	(4)#4	(4)#4
F3.0	3'-0"	3'-0"	10"	(4)#4	(4)#4
F3.6	3'-6"	3'-6"	12"	(5)#4	(5)#4
F4.0	4'-0"	4'-0"	12"	(6)#4	(6)#4



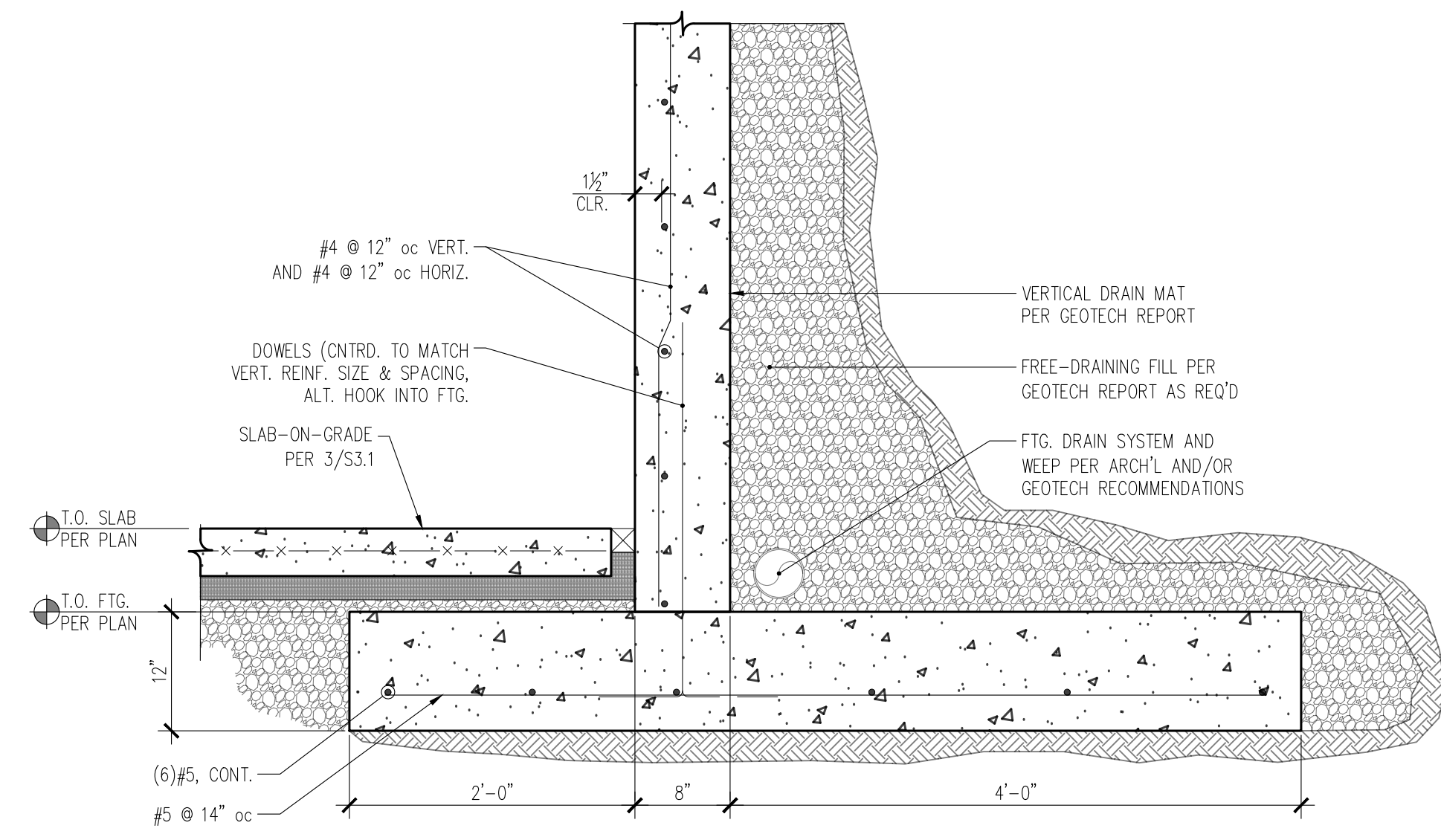
5 SPREAD FOOTING  
S3.1 1" = 1'-0"



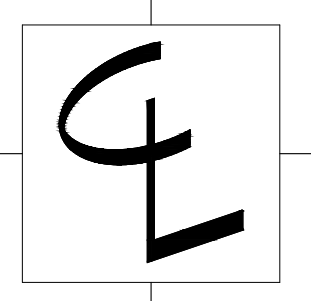
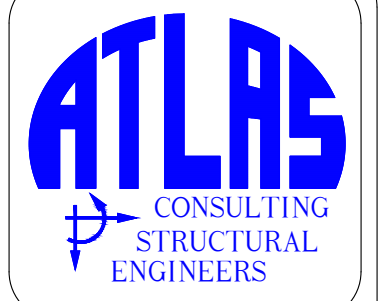
2 SECTION THROUGH PARTY WALL FOUNDATION  
S3.1 1" = 1'-0"



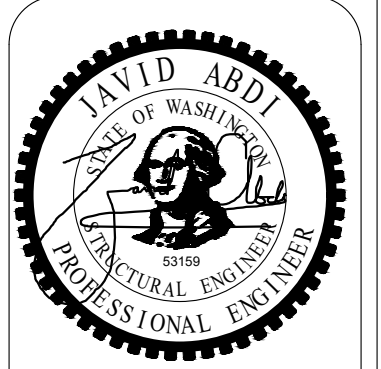
4 SECTION THROUGH THICKENED SLAB AT INTERIOR STRUCTURAL WALL  
S3.1 1" = 1'-0"



1 SECTION THROUGH FOUNDATION WALL  
S3.1 1" = 1'-0"



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S3.1

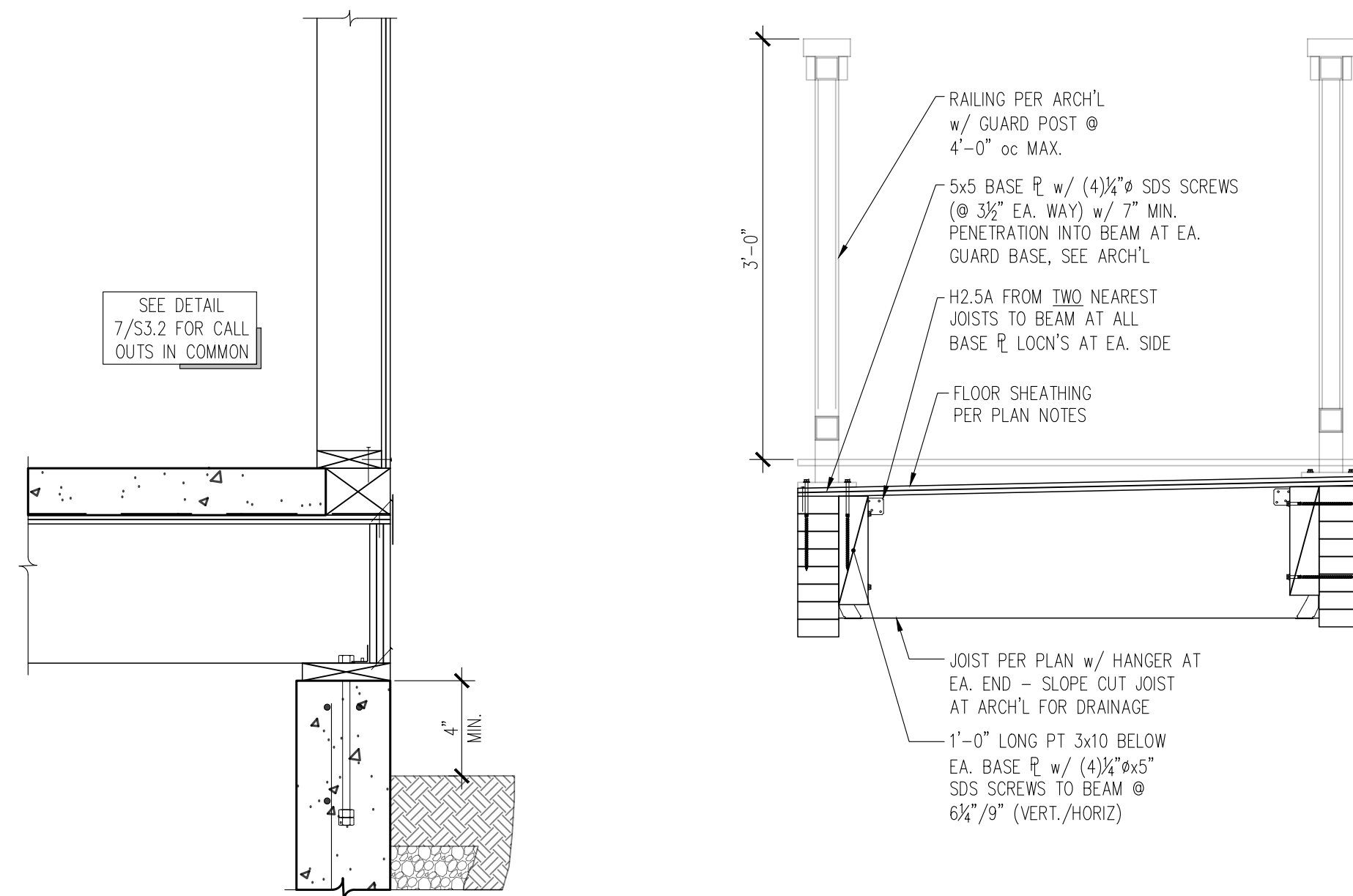
MIN. STRAIGHT DEVELOPMENT LENGTH			MIN. LAP SPLICE LENGTH (CLASS B)		
BAR SIZE	TOP BARS	OTHER BARS	BAR SIZE	TOP BARS	OTHER BARS
#4	25"	19"	#4	33"	25"
#5	31"	24"	#5	41"	31"

\*TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" DEPTH OF CONCRETE CAST BELOW THEM  
IF CLEAR CONCRETE COVER IS LESS THAN 1x THE DIAMETER OF THE BAR OR THE CENTER-TO-CENTER SPACING IS LESS THAN (3) BAR DIAMETERS, THEN VALUES SHALL BE INCREASED BY 50%

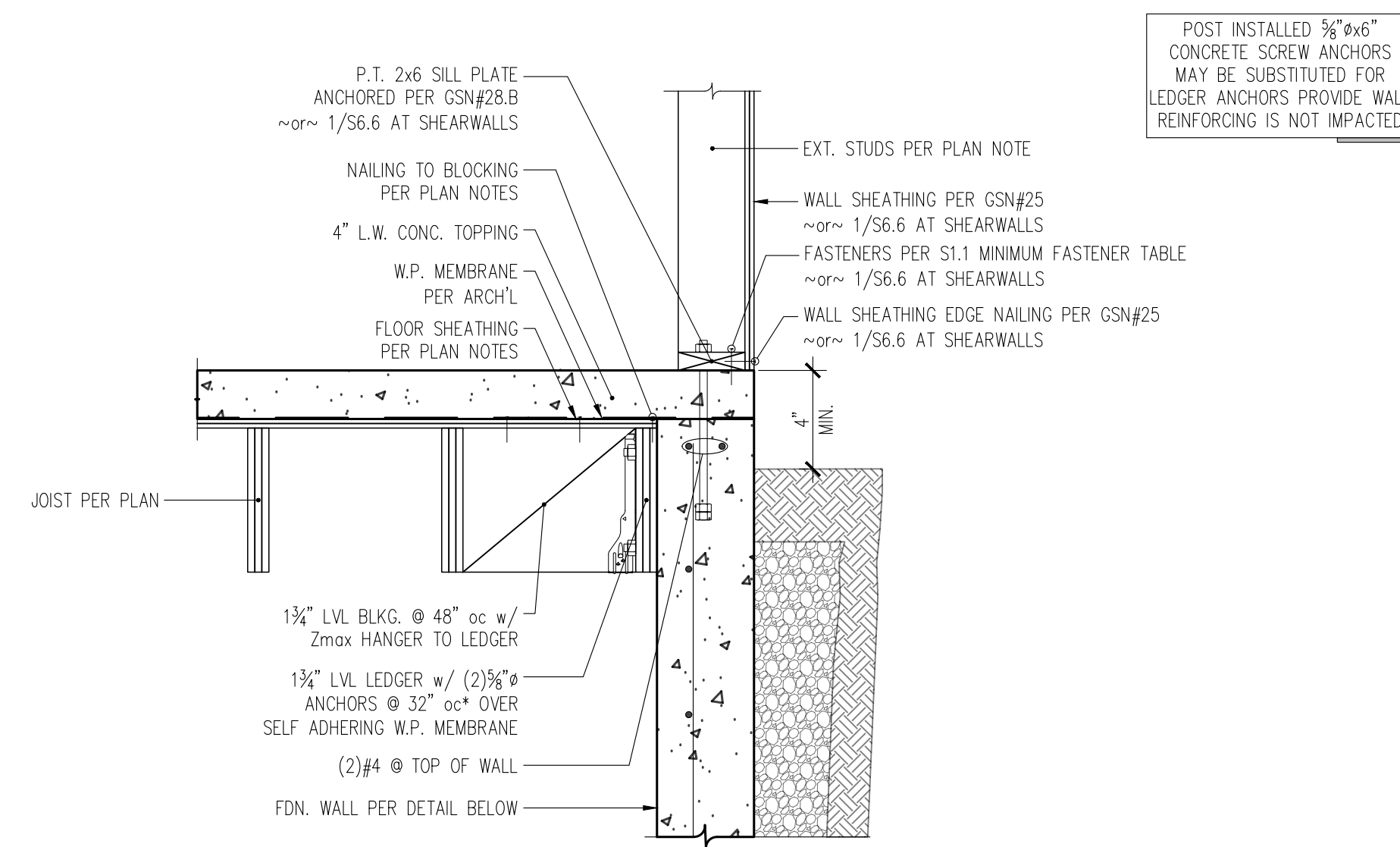
MIN. EMBEDMENT LENGTH FOR STANDARD END HOOKS	
BAR SIZE	LENGTH
#4	7"
#5	9"

- SIDE COVER MUST BE EQUAL TO OR GREATER THAN 25"
- END COVER FOR 90° HOOKS MUST BE EQUAL TO OR GREATER THAN 2"

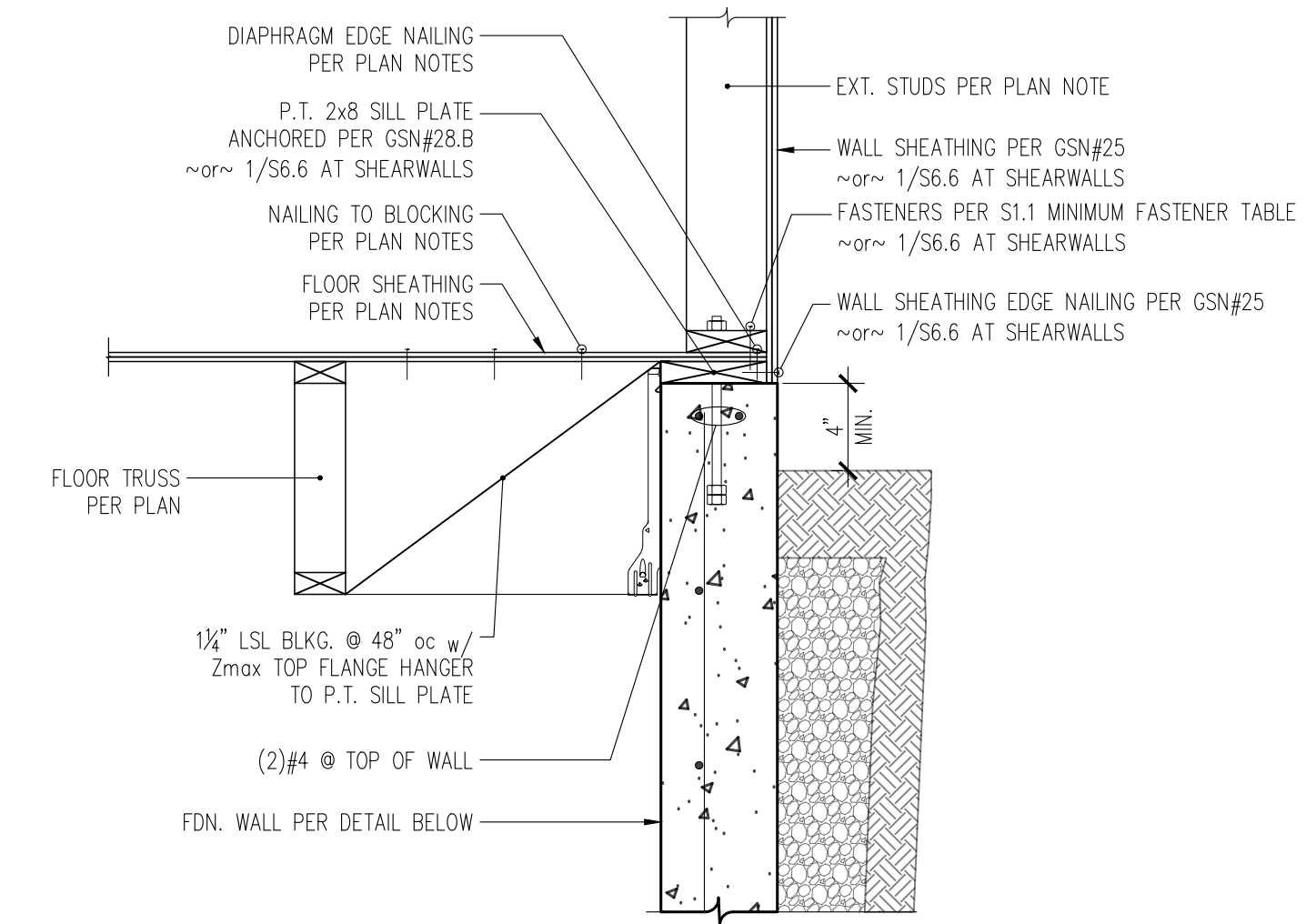
3 CONCRETE REINFORCING DEVELOPMENT AND SPLICE LENGTH TABLES  
S3.2 N/A



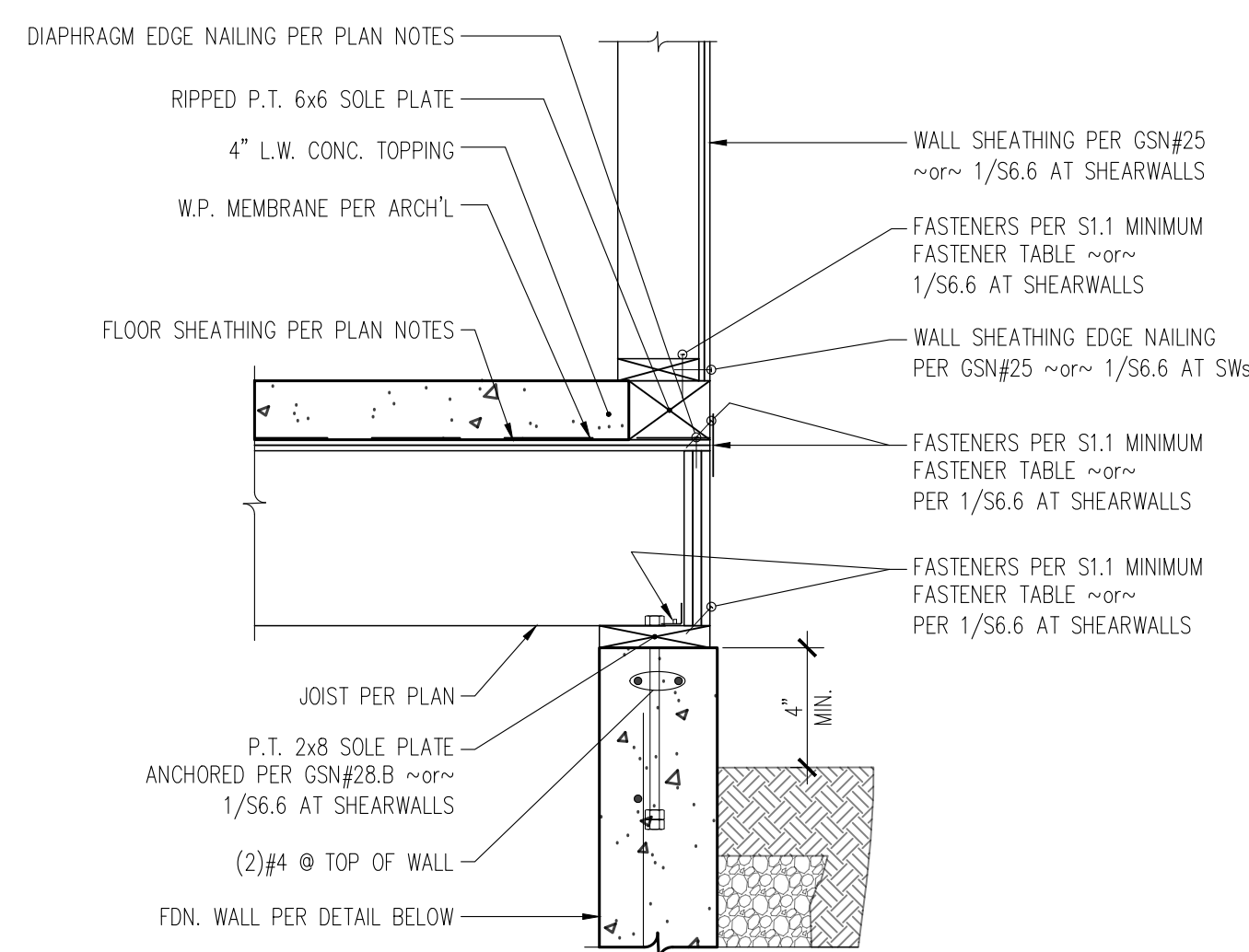
8 SECTION THROUGH HIGH FOUNDATION WALL AND HUNG PERPENDICULAR GARAGE JOISTS  
S3.2 1" = 1'-0"



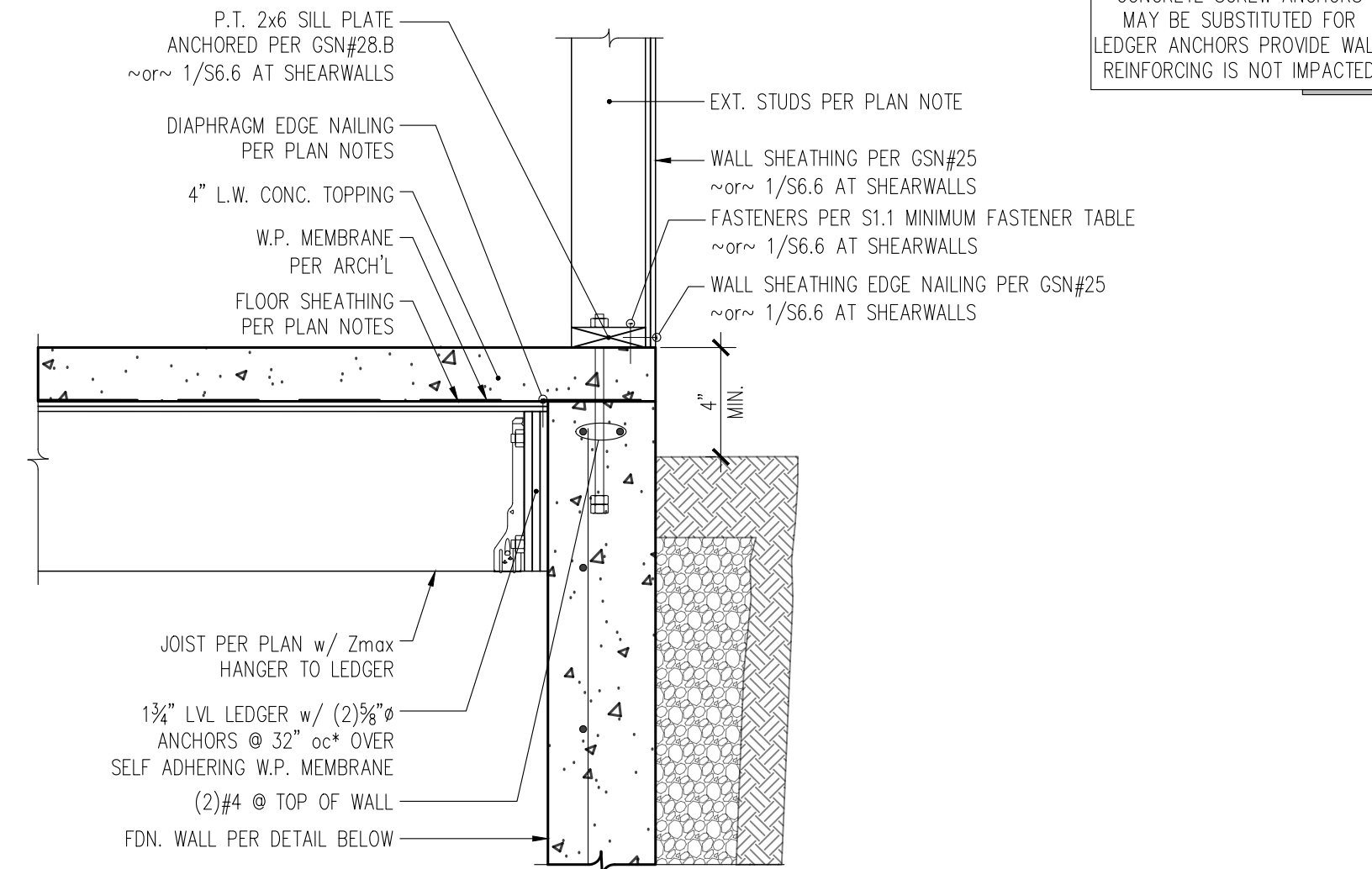
5 SECTION THROUGH HIGH FOUNDATION WALL AND HUNG PERPENDICULAR GARAGE JOISTS  
S3.2 1" = 1'-0"



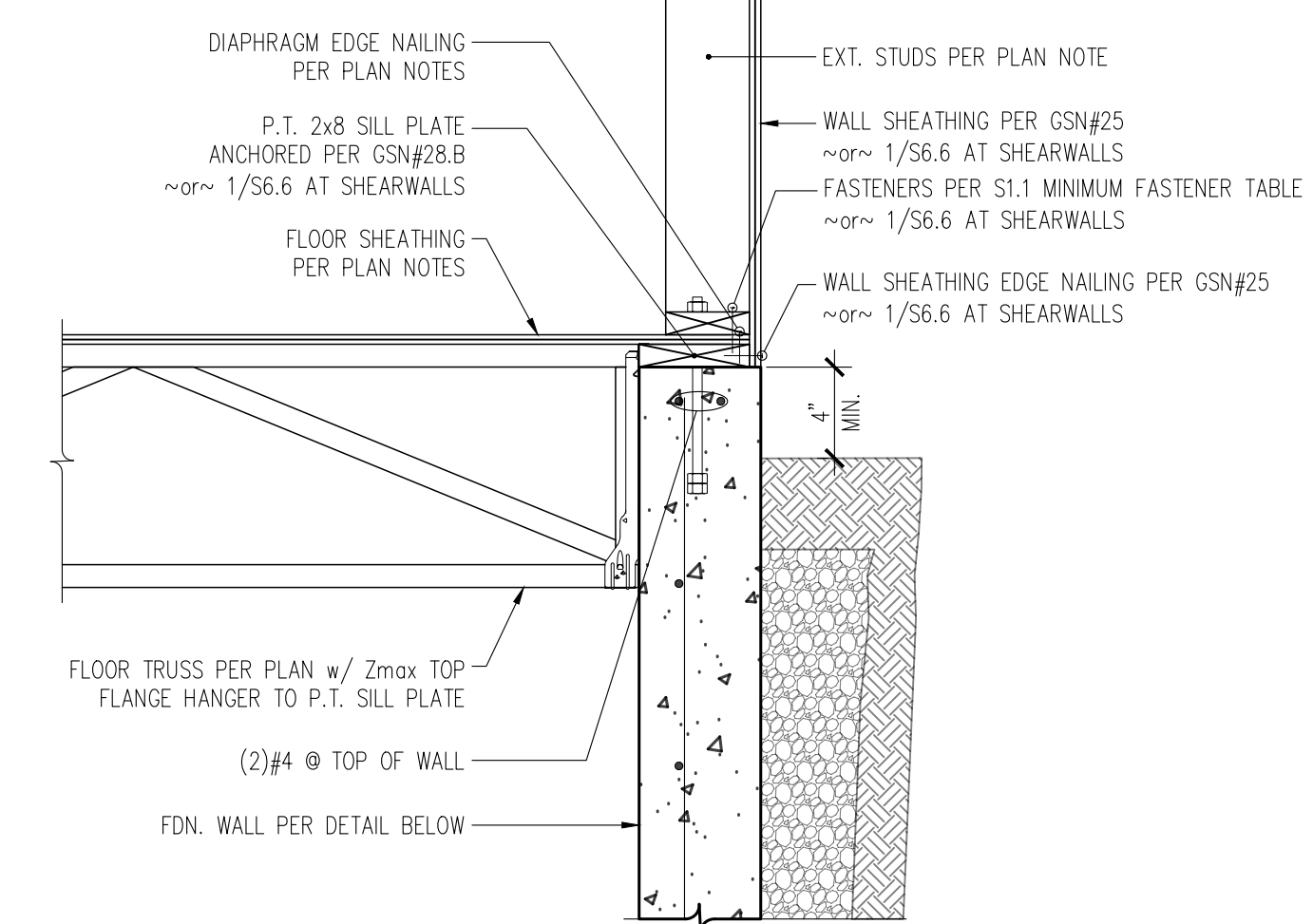
2 SECTION THROUGH HIGH FOUNDATION WALL AND HUNG PERPENDICULAR FLOOR TRUSS  
S3.2 1" = 1'-0"



7 SECTION THROUGH HIGH FOUNDATION WALL  
S3.2 1" = 1'-0"



4 SECTION THROUGH HIGH FOUNDATION WALL AND HUNG PERPENDICULAR GARAGE JOISTS  
S3.2 1" = 1'-0"



1 SECTION THROUGH HIGH FOUNDATION WALL AND HUNG PERPENDICULAR FLOOR TRUSS  
S3.2 1" = 1'-0"

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S3.2

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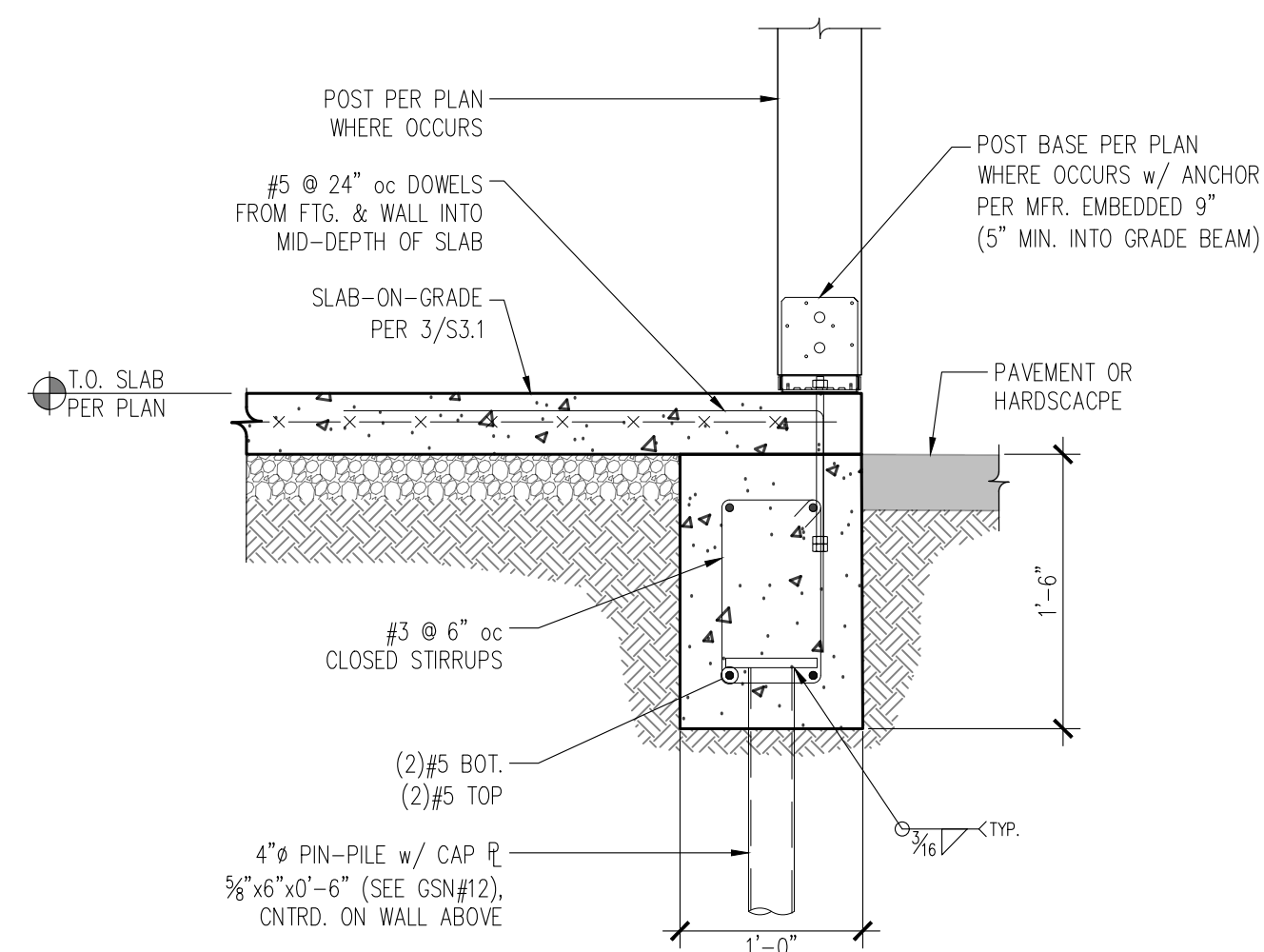
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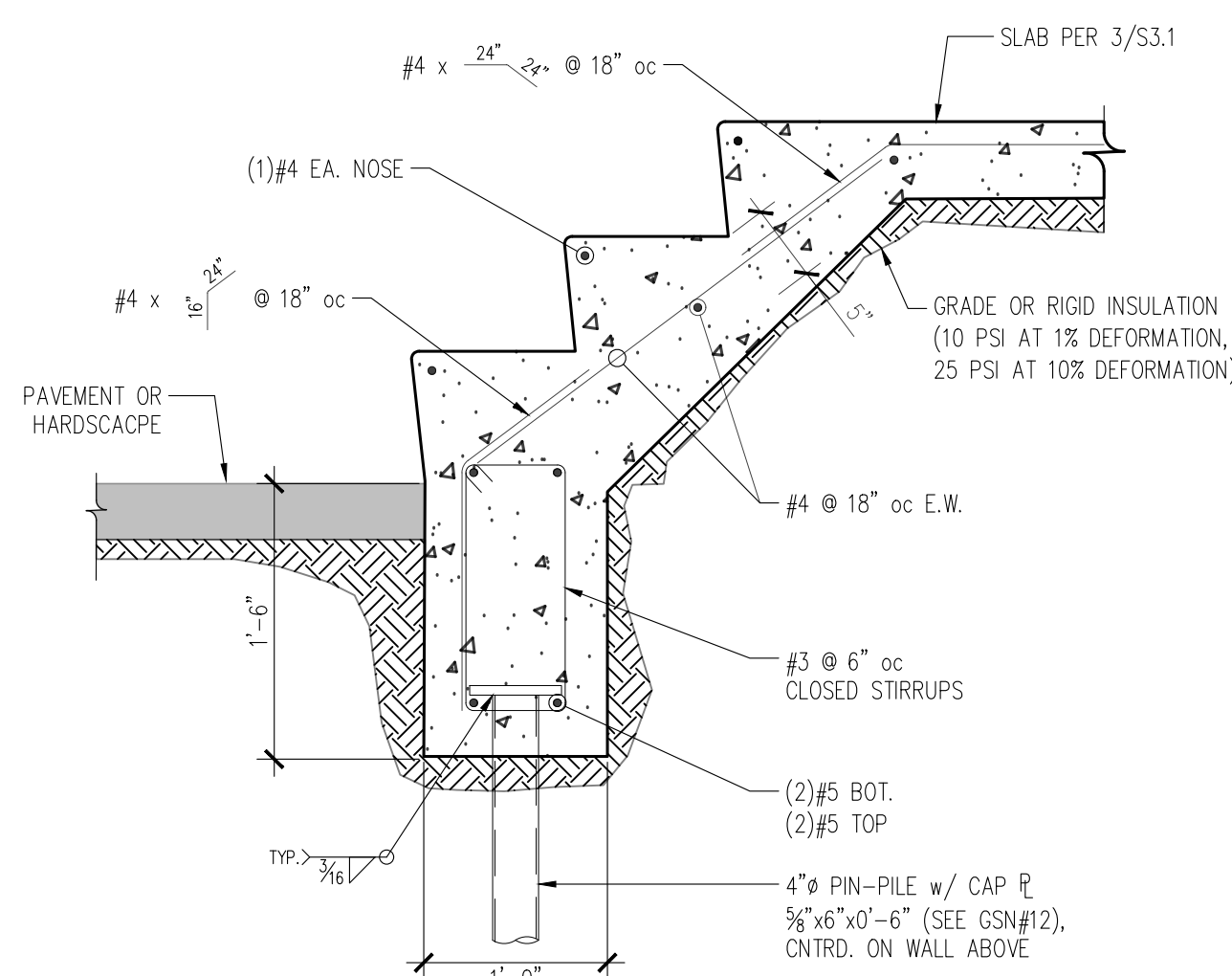
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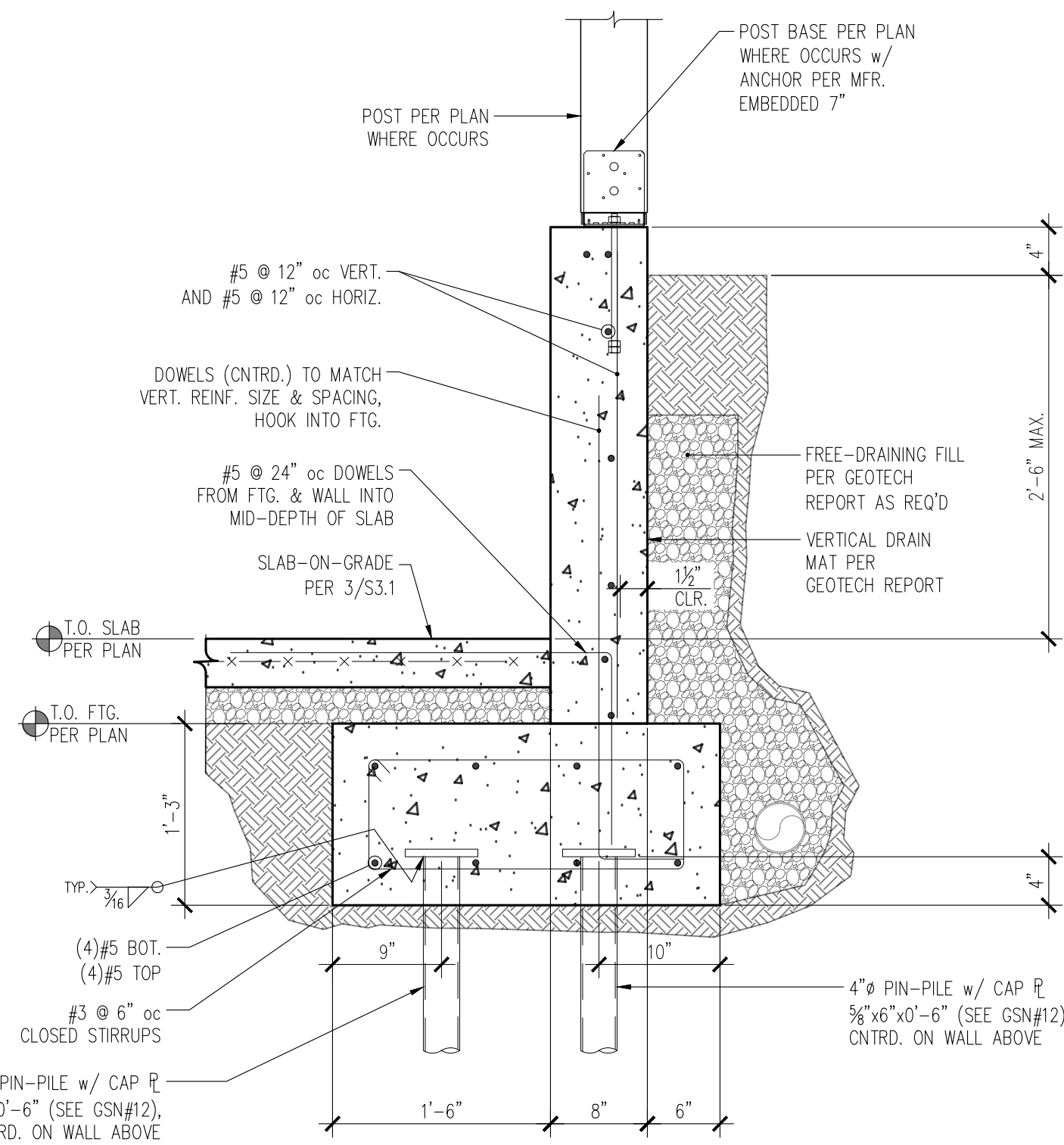
S3.3



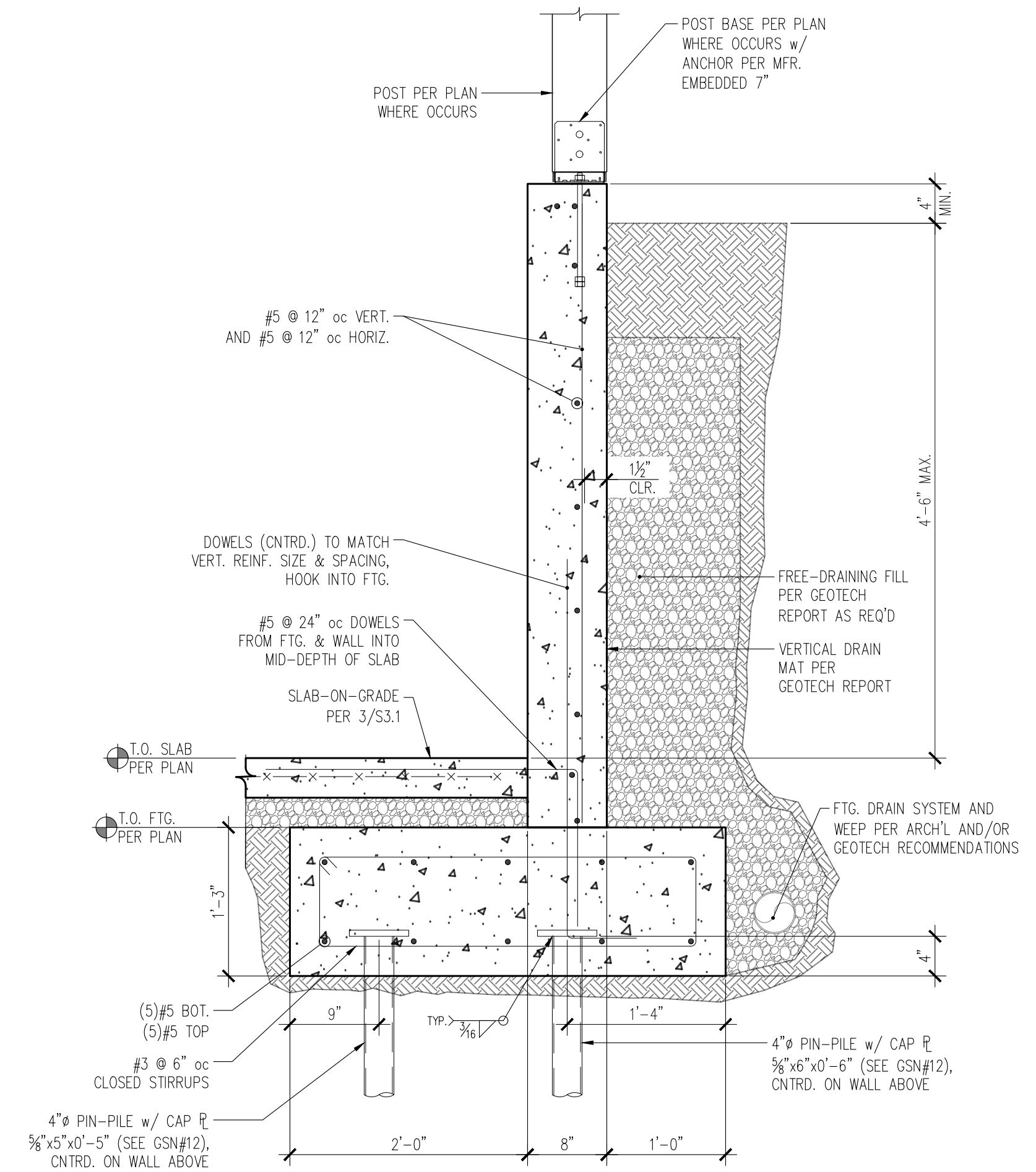
8 PIN-PILE SUPPORTED GRADE BEAM  
S3.3 1" = 1'-0"



7 PIN-PILE SUPPORTED CAST-IN-PLACE STAIR  
S3.3 1" = 1'-0"



4 SECTION THROUGH PIN-PILE SUPPORTED EAST/NORTH RETAINING WALL  
S3.3 1" = 1'-0"



1 SECTION THROUGH PIN-PILE SUPPORTED SOUTH RETAINING WALL  
S3.3 1" = 1'-0"

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Typical Wood Details

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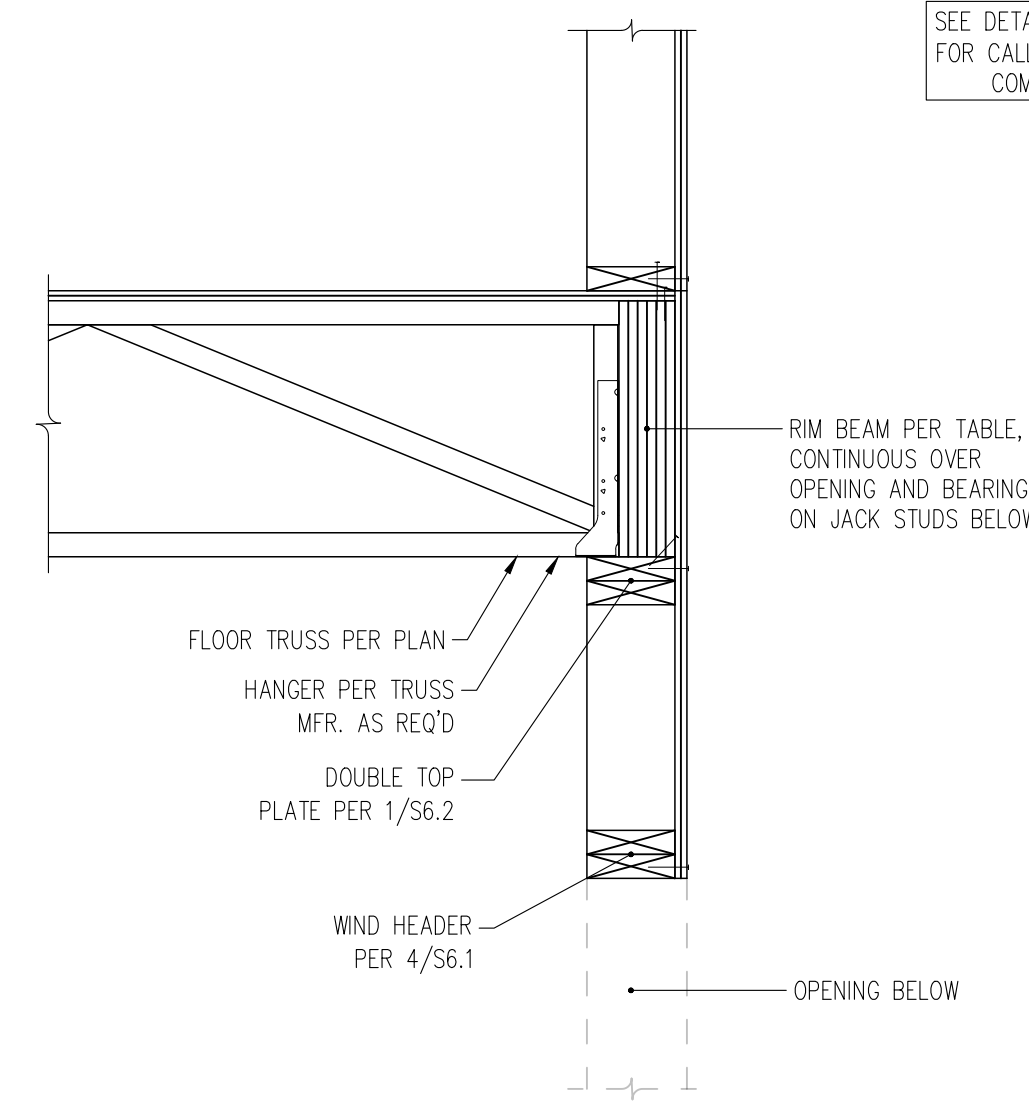
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DATE

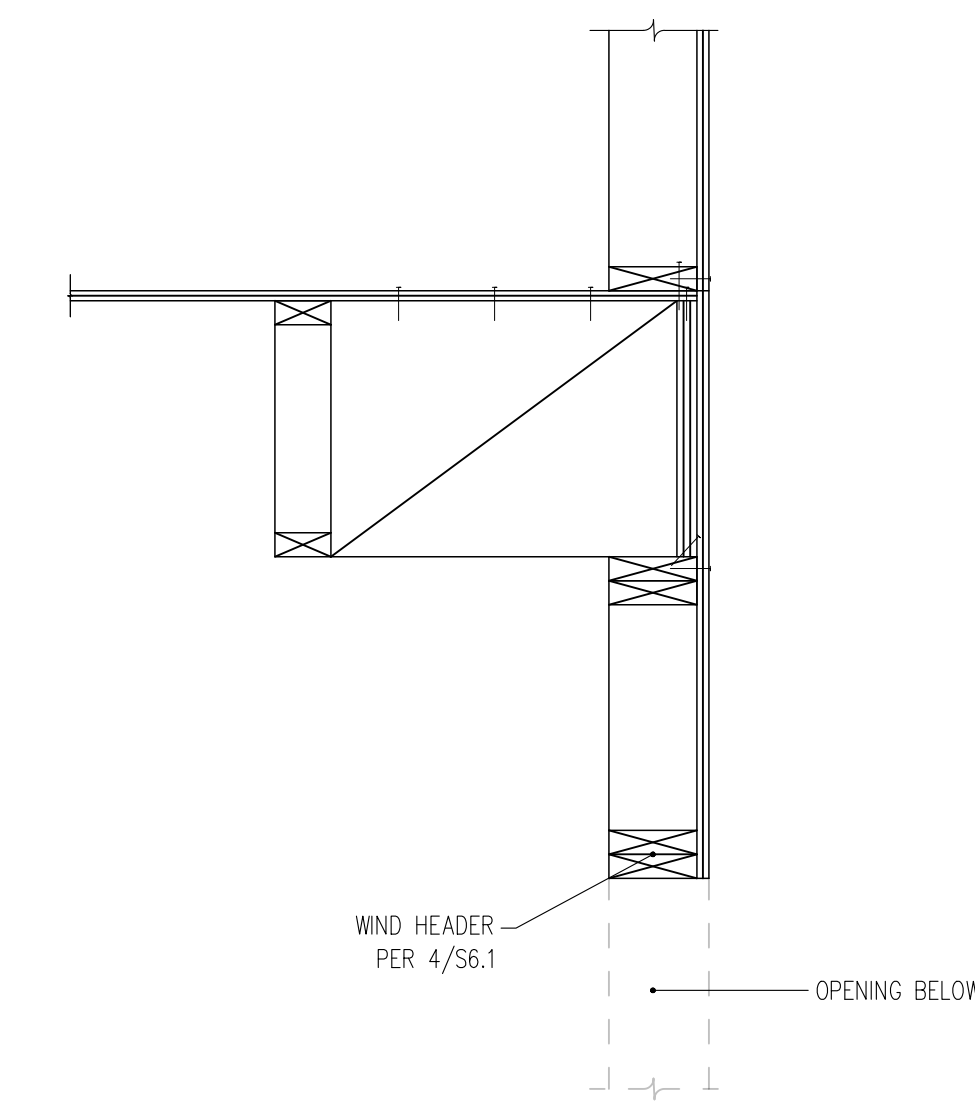
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S6.1

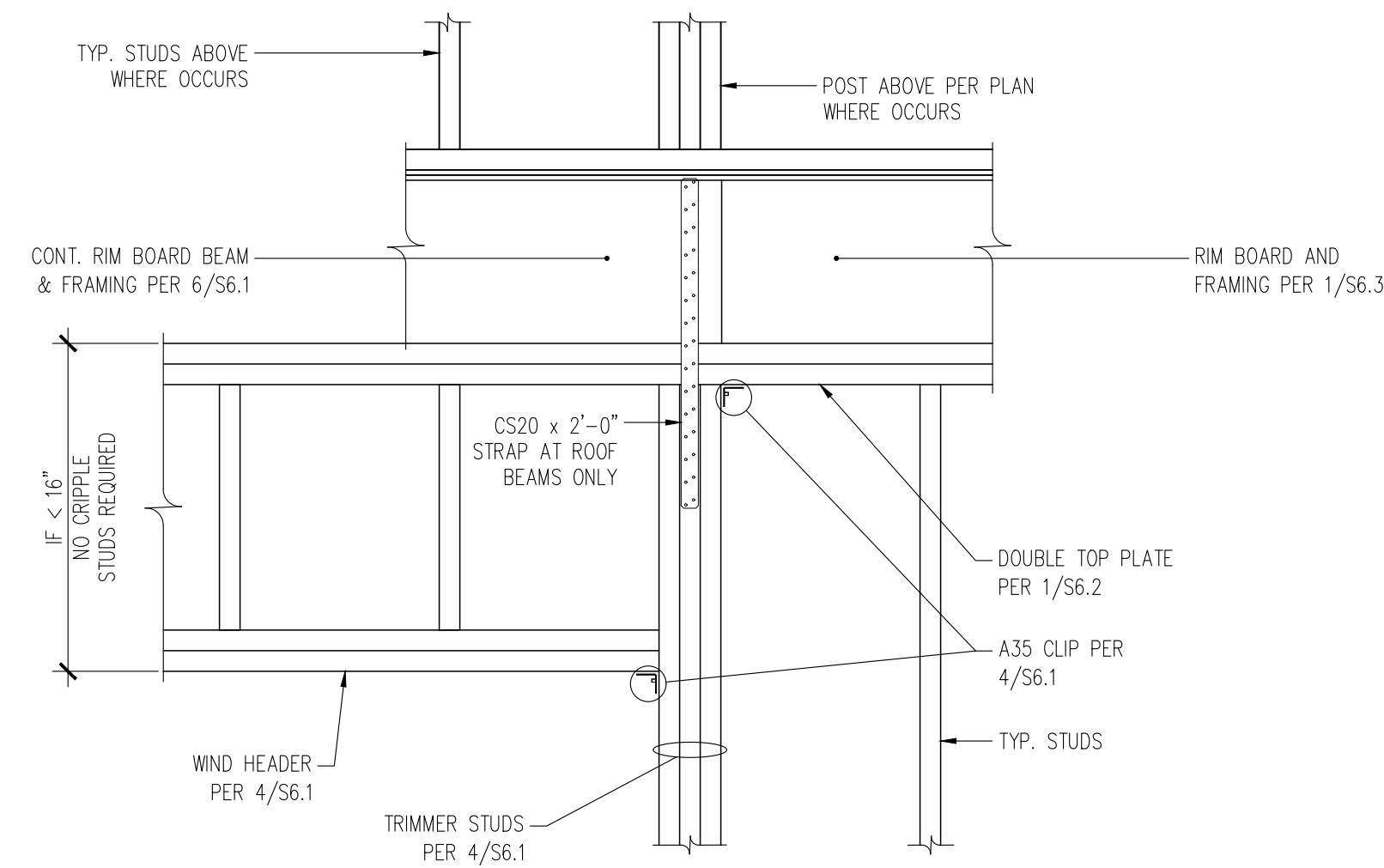
UPPER FLOOR		
OPENING WIDTH, L	RIM/HEADER SIZE	MINIMUM No. OF STUD
L ≤ 3'-6"	1 3/4"x16" LVL	(1)2x6
L ≤ 6'-6"	1 3/4"x16" LVL	(2)2x6
MAIN FLOOR		
L ≤ 3'-6"	1 3/4"x16" LVL	(2)2x6
L ≤ 6'-6"	1 3/4"x16" LVL	(2)2x6



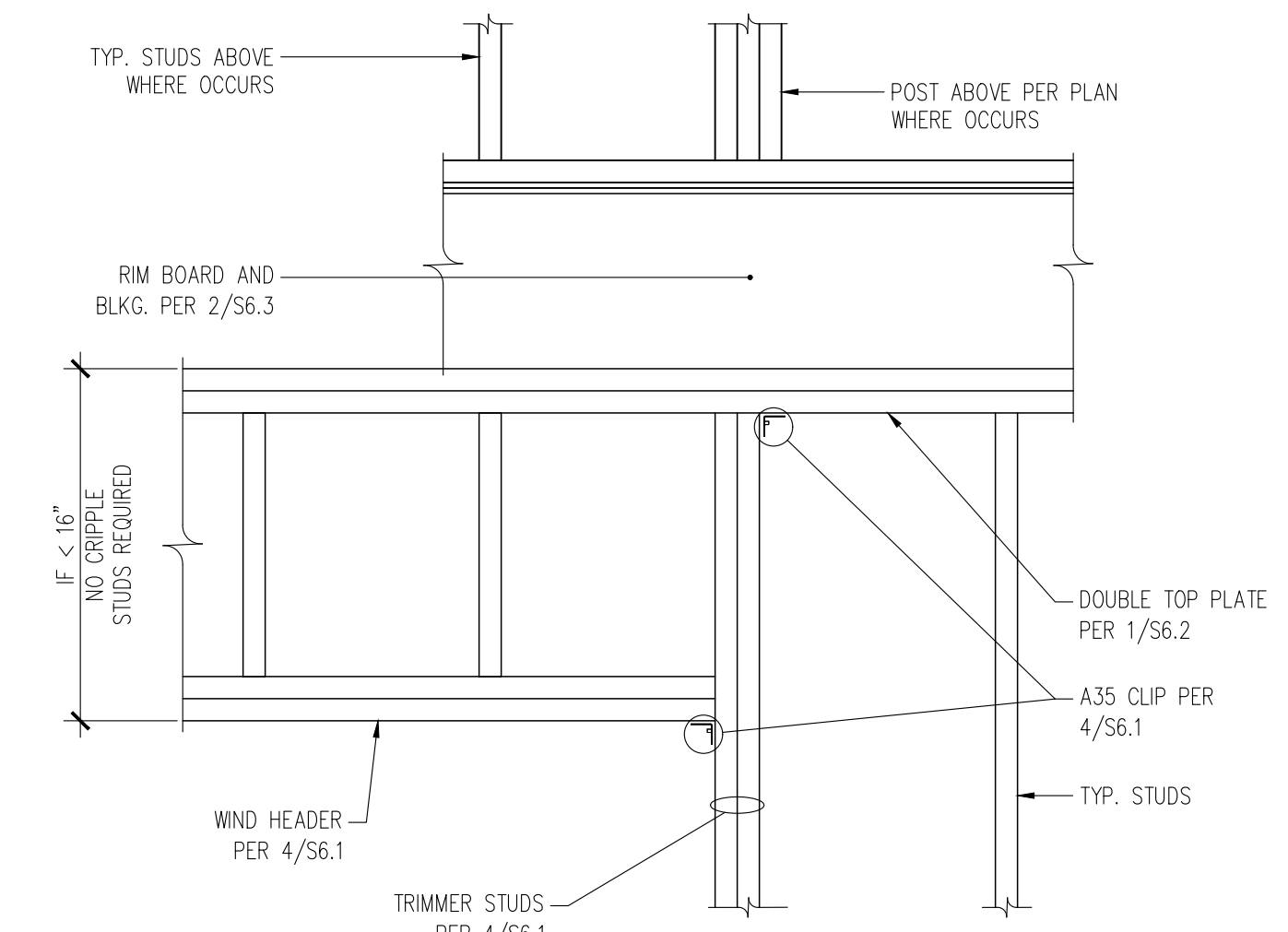
6 TYPICAL RIMBOARD HEADER & WIND HEADER IN LOAD BEARING EXTERIOR WALL  
S6.1 NTS



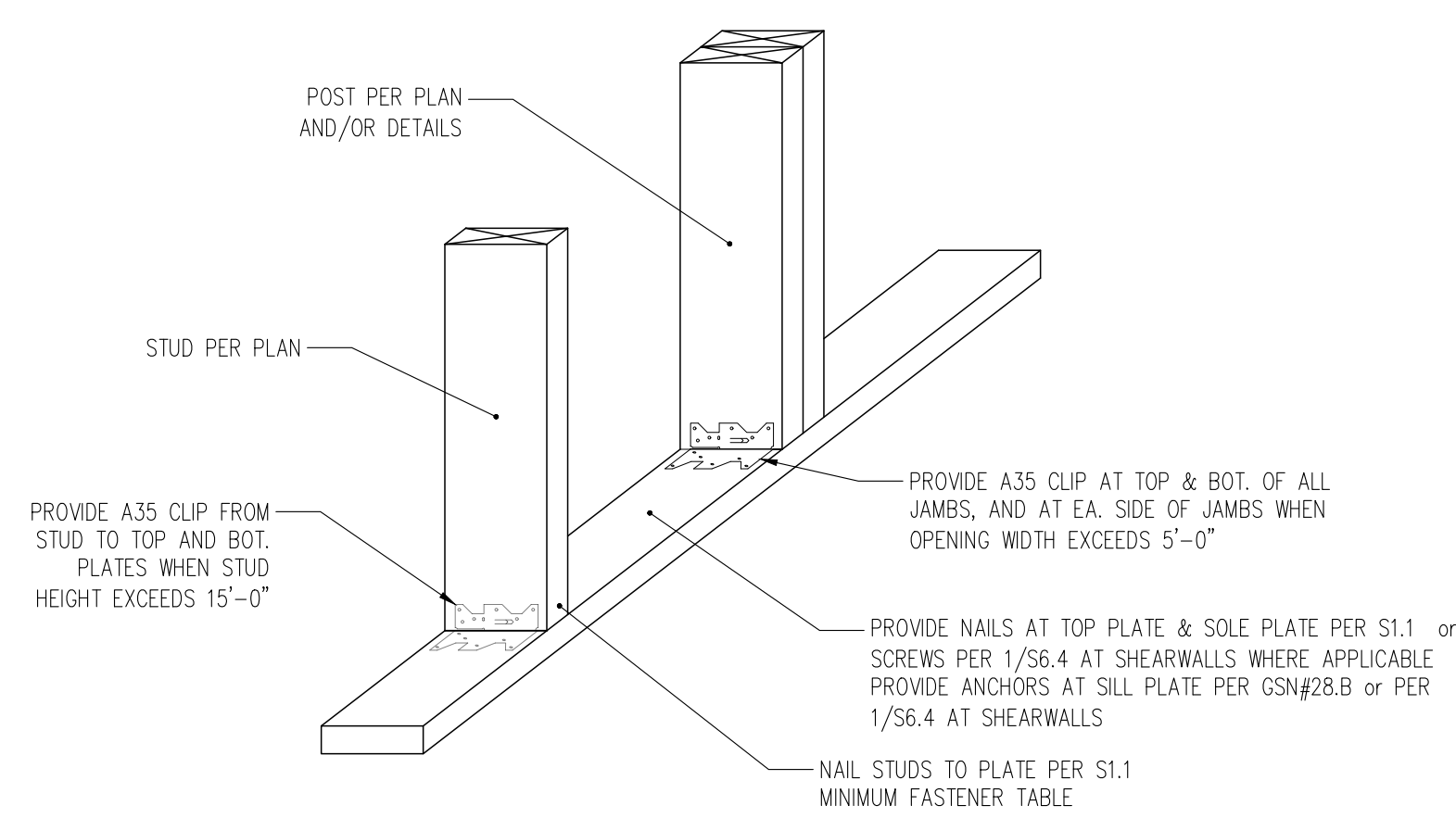
3 TYPICAL WIND HEADER IN NON-LOAD BEARING EXTERIOR WALL  
S6.1 NTS



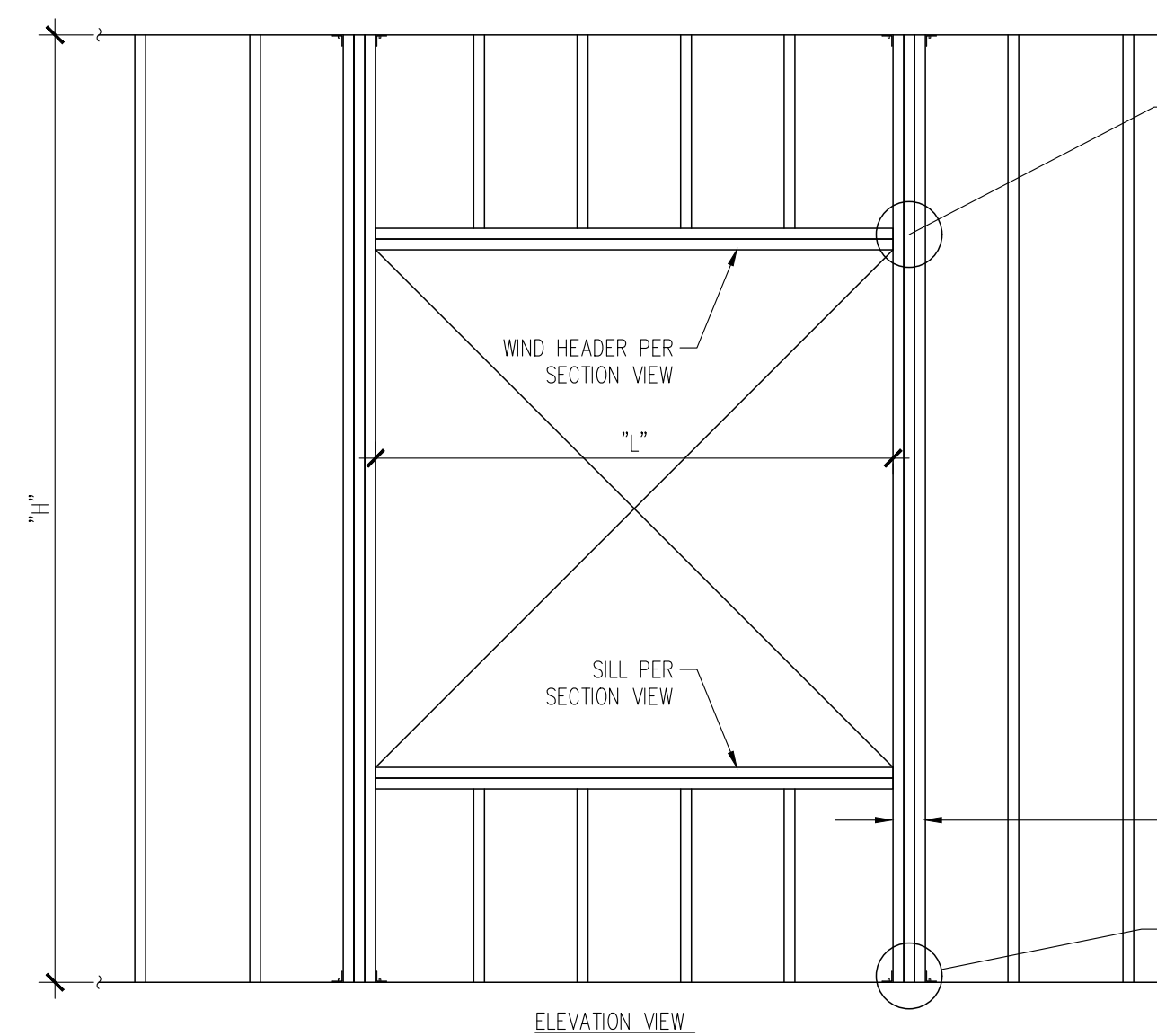
5 TYPICAL FLUSH BEAM/HEADER IN EXTERIOR WALL  
S6.1 NTS



2 TYPICAL WIND HEADER DETAIL  
S6.1 NTS



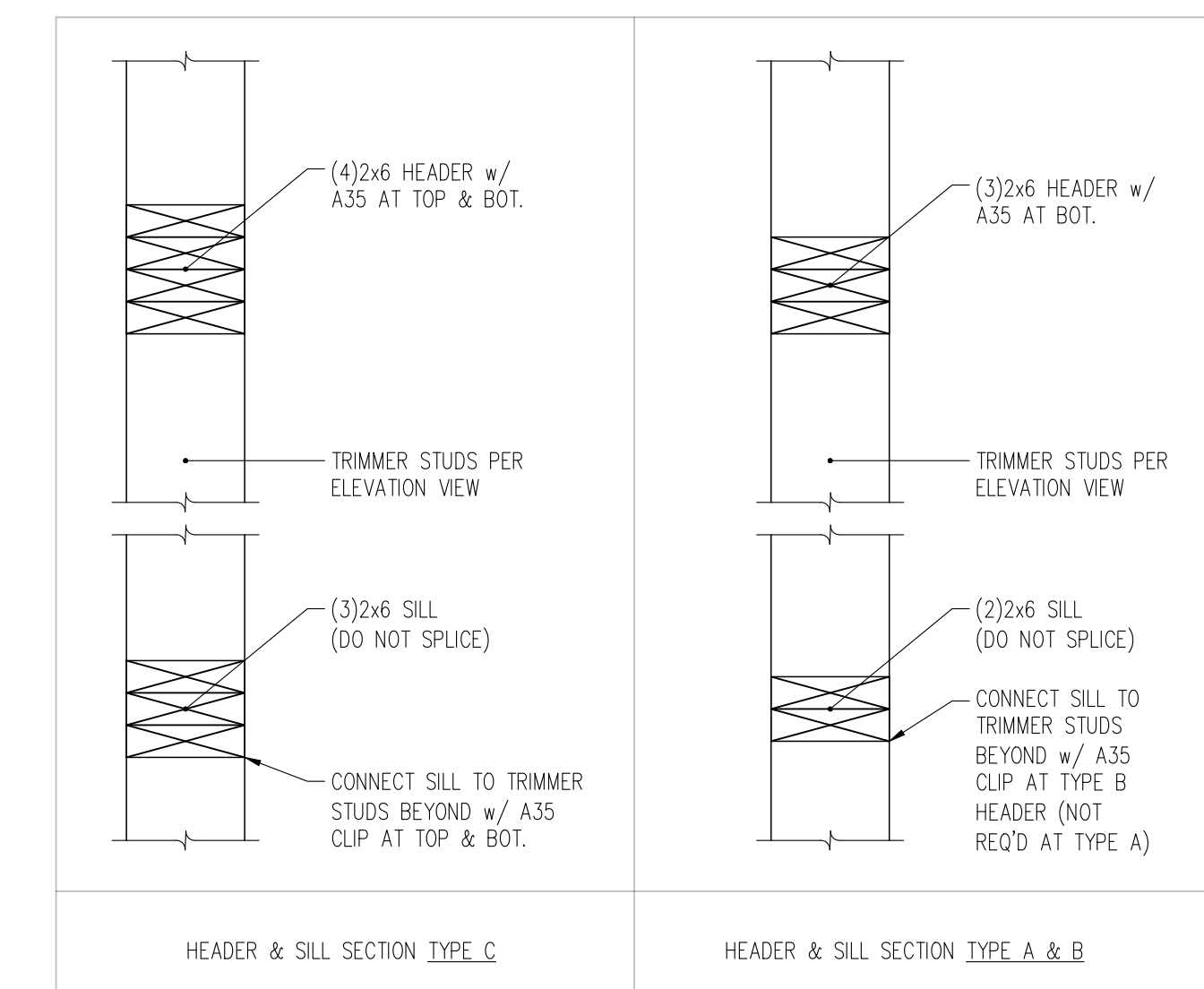
7 CONNECTION OF EXTERIOR STUDS AT TOP & BOTTOM PLATES  
S6.1 NTS



4 TYPICAL WIND HEADER  
S6.1 NTS

CLEAR HEIGHT "H"	OPENING WIDTH "L"	HDR./SILL TYPE PER SECTION AT RIGHT	No. OF FULL HEIGHT TRIMMER STUDS "D"
H < 12'	L ≤ 6'-0"	A	2
	6' < L < 10'	B	2
	10' ≤ L ≤ 15'	C	3
12' < H < 16'	L ≤ 10'	B	3
	10' ≤ L ≤ 15'	C	6x8

- ALL TRIMMER STUDS, HEADERS, AND SILLS SHALL BE NAILED TOGETHER PER S1.1
- ALL STRUCTURAL TRIMMER STUDS, SILLS, AND HEADERS SHALL BE DOUGLAS FIR #2 OR BETTER
- SEE PLANS FOR LVL STUD WALL LOCATIONS, WHERE APPLICABLE



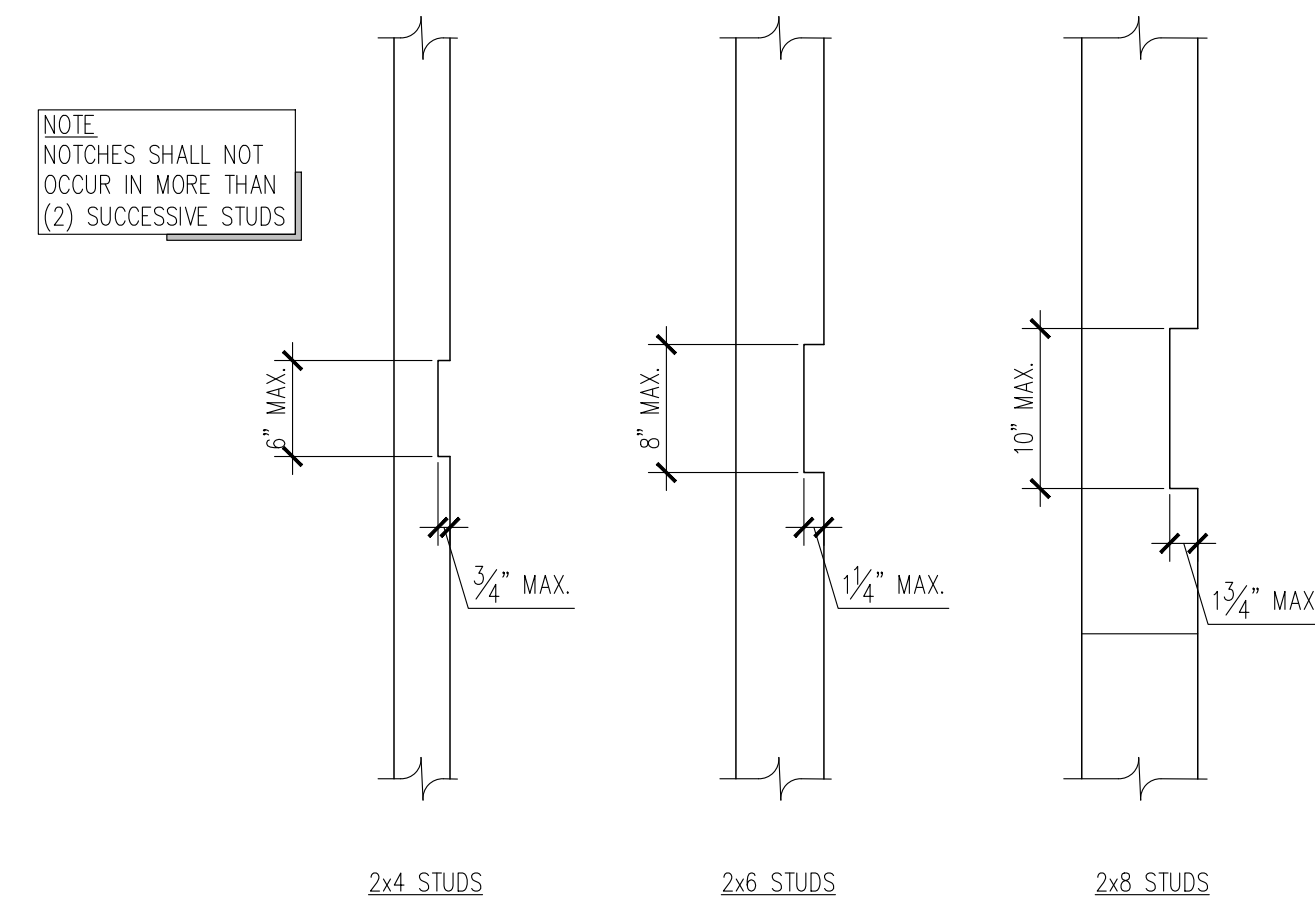
HEADER & SILL SECTION TYPE C

HEADER & SILL SECTION TYPE A & B

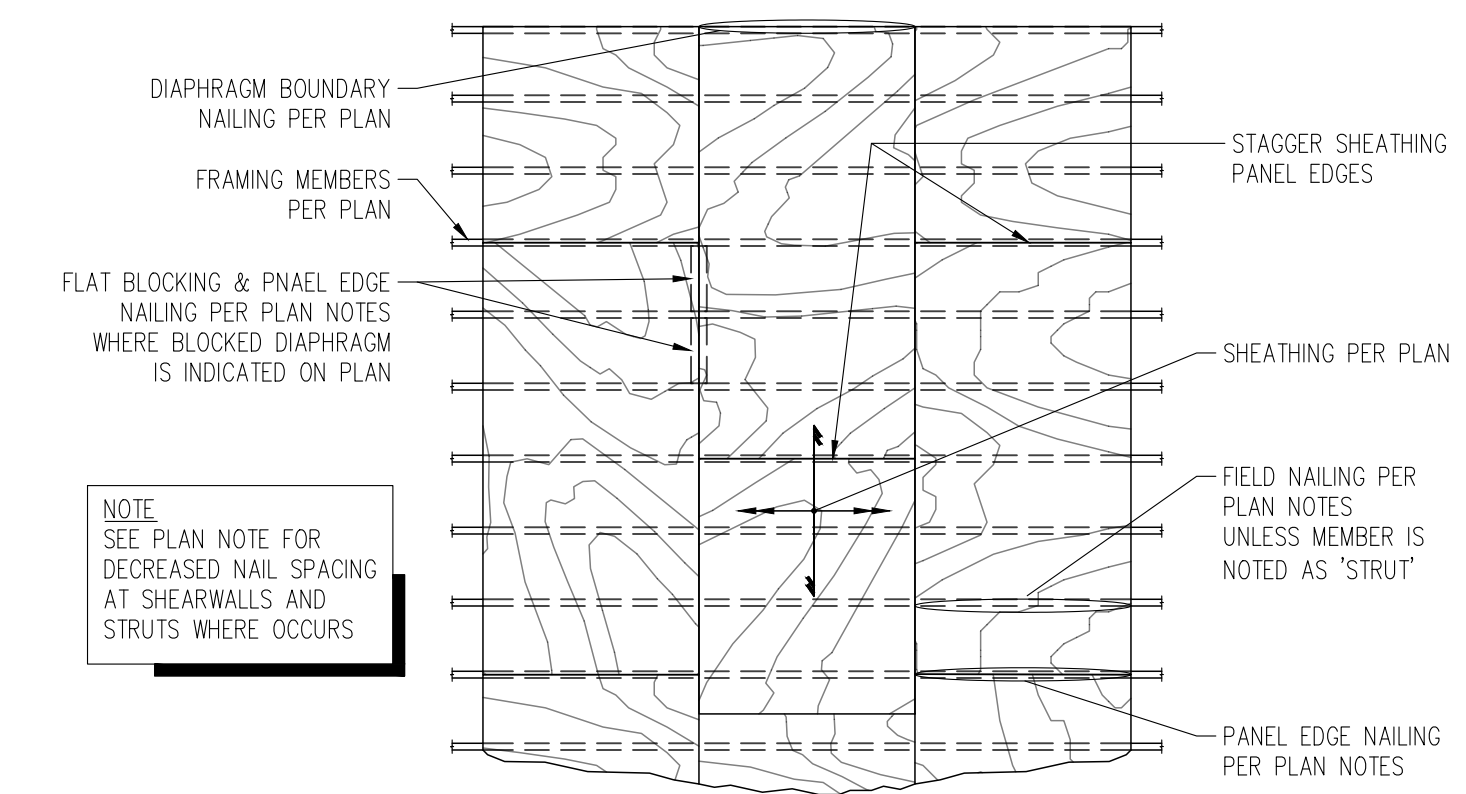
PIECE WIDTH	NUMBER OF PLYS	TYPE <sup>(1)</sup>	FASTENER			LOCATION
			MIN. LENGTH	# ROWS	O.C. SPACING	
1 3/4"	2	10d NAILS	3"	3 <sup>(2)</sup>	12"	ONE SIDE
		12d - 16d NAILS	3 3/4"	2 <sup>(2)</sup>	24"	
	3	10d NAILS	3"	3 <sup>(2)</sup>	12"	BOTH SIDES
		12d - 16d NAILS	3 3/4"	2 <sup>(2)</sup>	24"	
	4	10d NAILS	3"	3 <sup>(2)</sup>	12"	ONE SIDE (PER PLY)
		12d - 16d NAILS	3 3/4"	2 <sup>(2)</sup>	24"	
3 1/2"	2	SCREWS	5" or 6"	2	24"	BOTH SIDES
		1/2" BOLTS	8"	2	24"	ONE SIDE

- (1) 10d NAILS ARE 0.128" DIAMETER; 12d - 16d NAILS ARE 0.148" - 0.162" DIAMETER; SCREWS ARE SDS, USP WP, TRUSSLOK, OR SDW  
(2) AN ADDITIONAL ROW OF NAILS IS REQUIRED WITH DEPTHS OF 14" OR GREATER  
(3) WHEN CONNECTING 4-PLY MEMBERS, NAIL EACH PLY TO THE OTHER AND OFFSET NAIL ROWS BY 2" FROM ROWS IN THE PLY BELOW

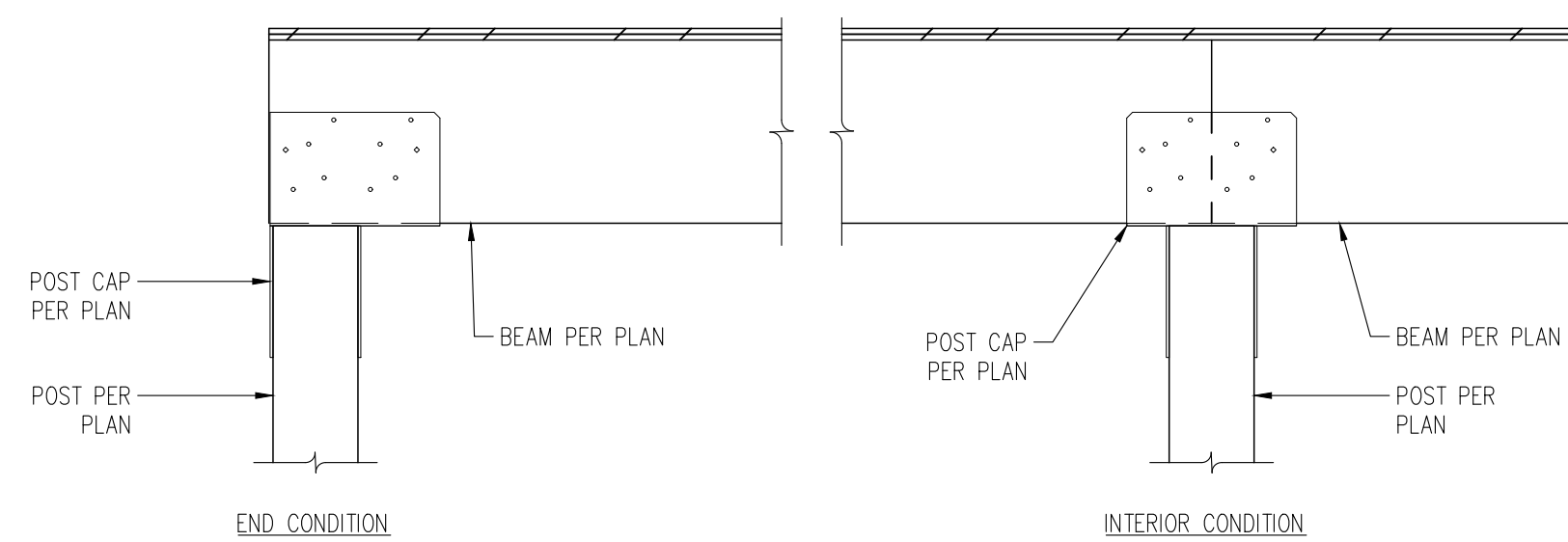
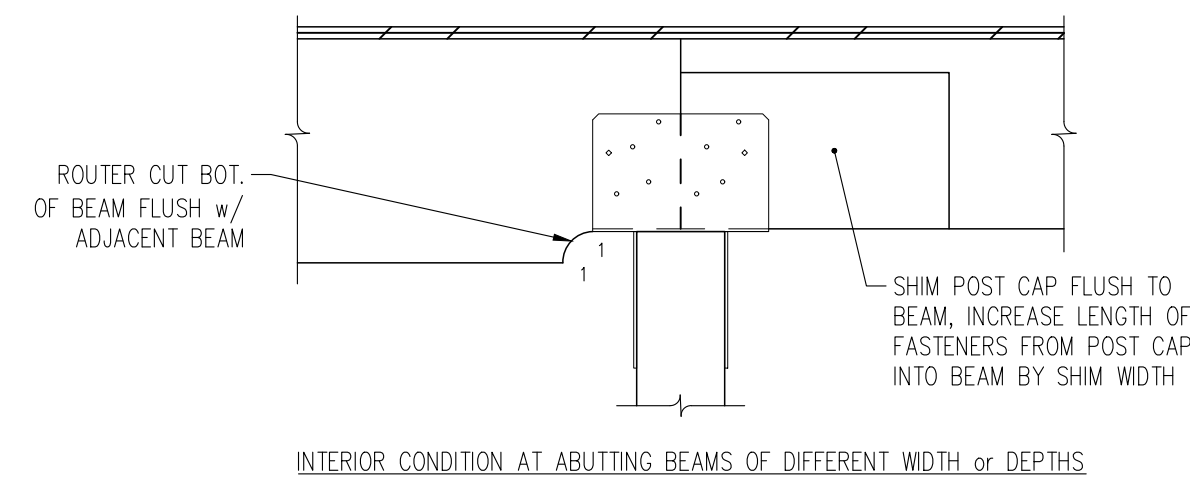
9 MULTIPLE LVL MEMBER FASTENING FOR TOP-LOADED BEAM PER WEYERHAUSER  
S6.2 NTS



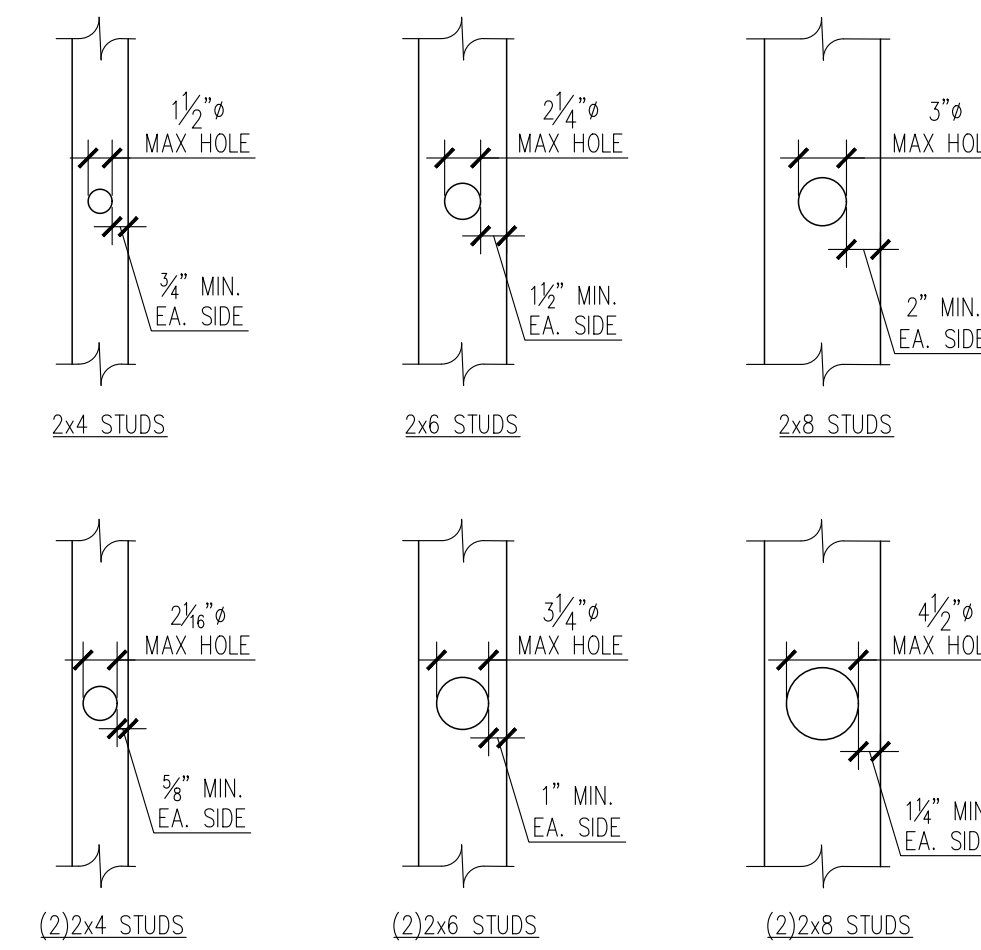
6 ALLOWABLE HOLES IN STUDWALL STUDS  
S6.2 NTS



3 TYPICAL DIAPHRAGM NAILING  
S6.2 NTS



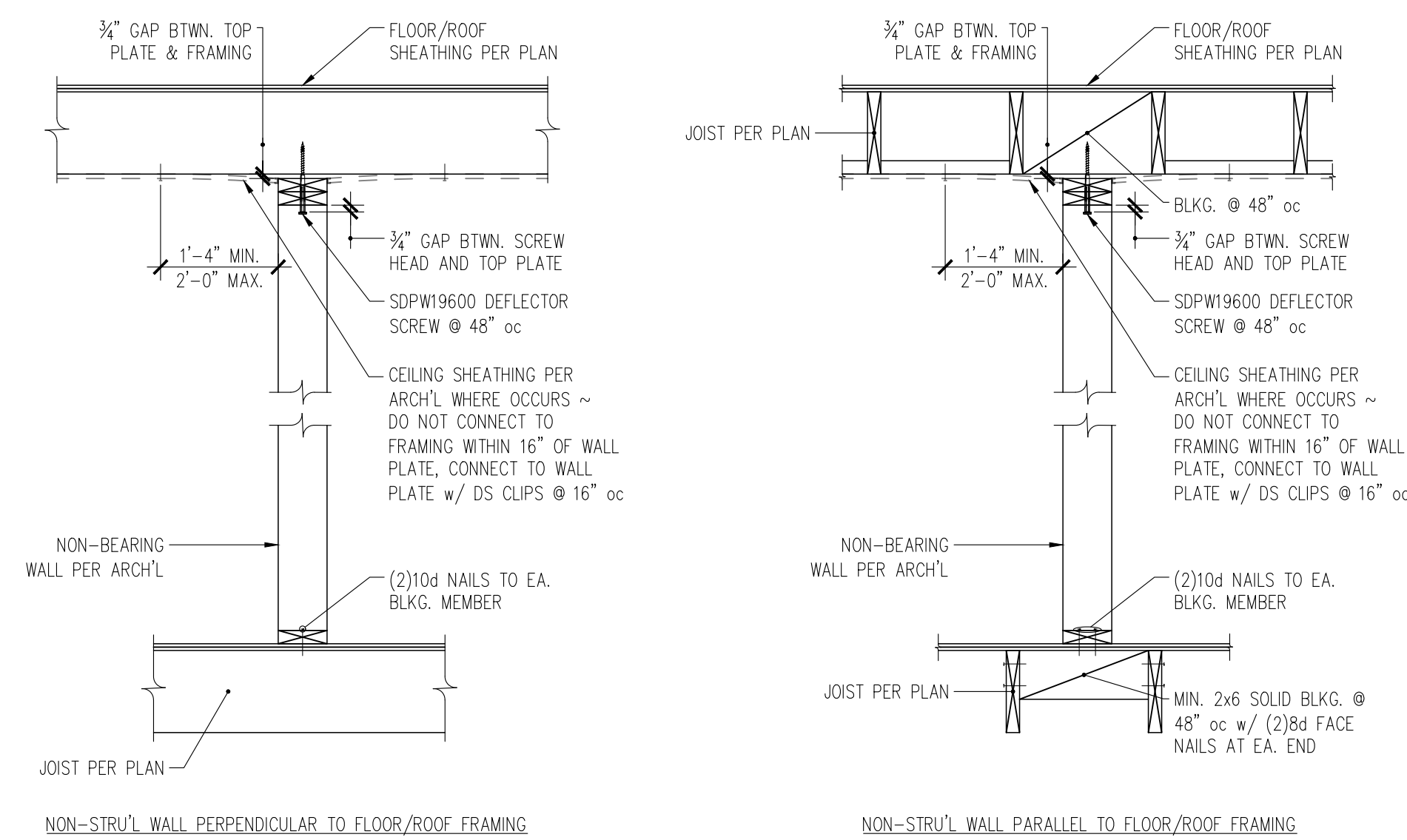
8 TYPICAL POST CAP INSTALLATION  
S6.2 NTS



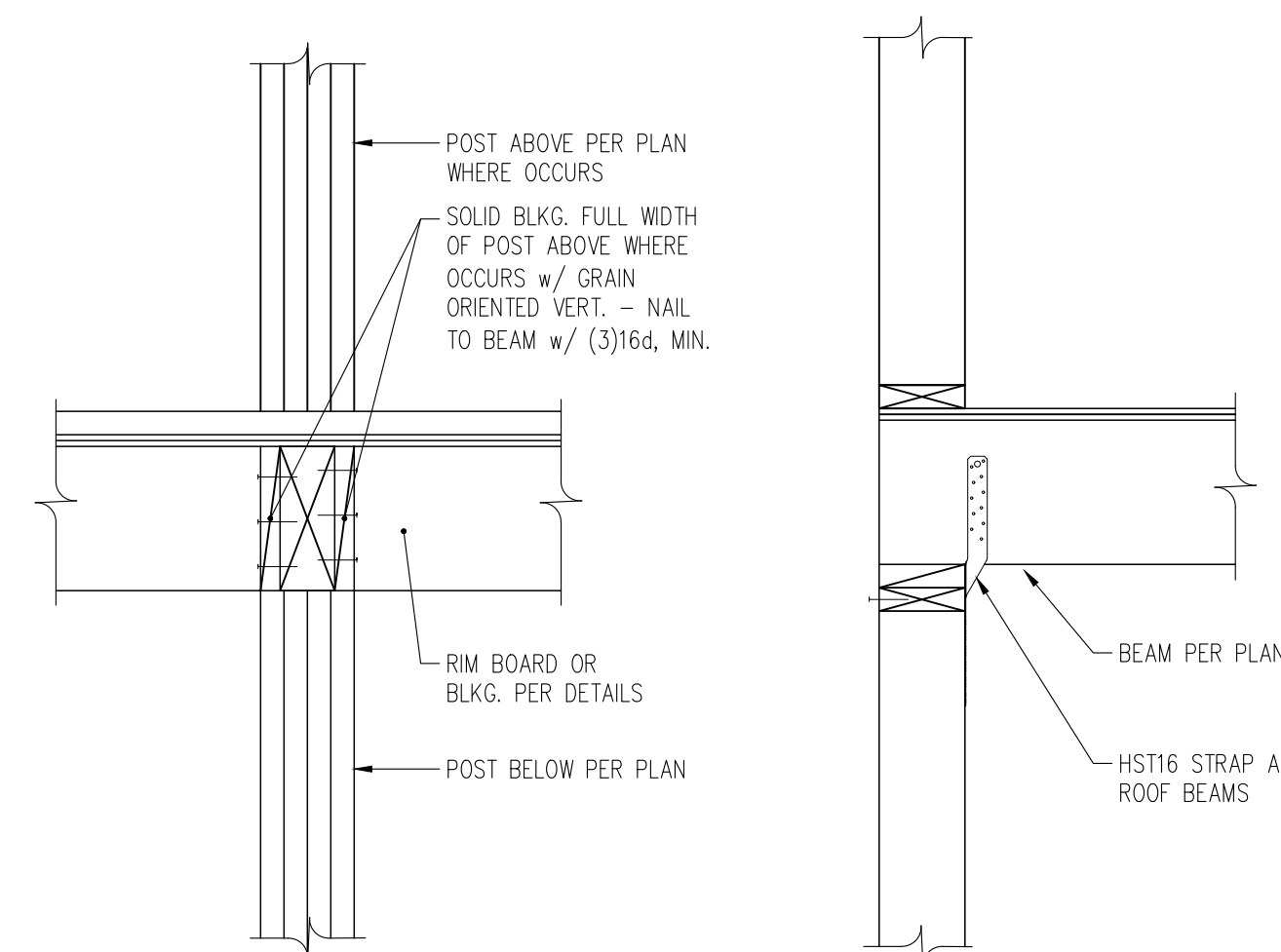
5 ALLOWABLE HOLES IN STUDWALL STUDS  
S6.2 NTS

	NO REINF. REQUIRED	STRAP REINF. REQUIRED
2x4 PLATES	1 1/2" MAX. HOLE 3/4" MIN. EA. SIDE	2 5/8" MAX. HOLE 3/8" MIN. EA. SIDE CMSTC16x3'-0" (CS16x2'-0" AT BOT. PLATES)
2x6 PLATES	2 1/4" MAX. HOLE 1 1/2" MIN. EA. SIDE	3 3/4" MAX. HOLE 3/4" MIN. EA. SIDE CMSTC16x3'-0" (CS16x2'-0" AT BOT. PLATES)
2x8 PLATES	3 3/4" MAX. HOLE 2" MIN. EA. SIDE	5" MAX. HOLE 1 1/4" MIN. EA. SIDE CMSTC16x3'-0" (CS16x2'-0" AT BOT. PLATES)

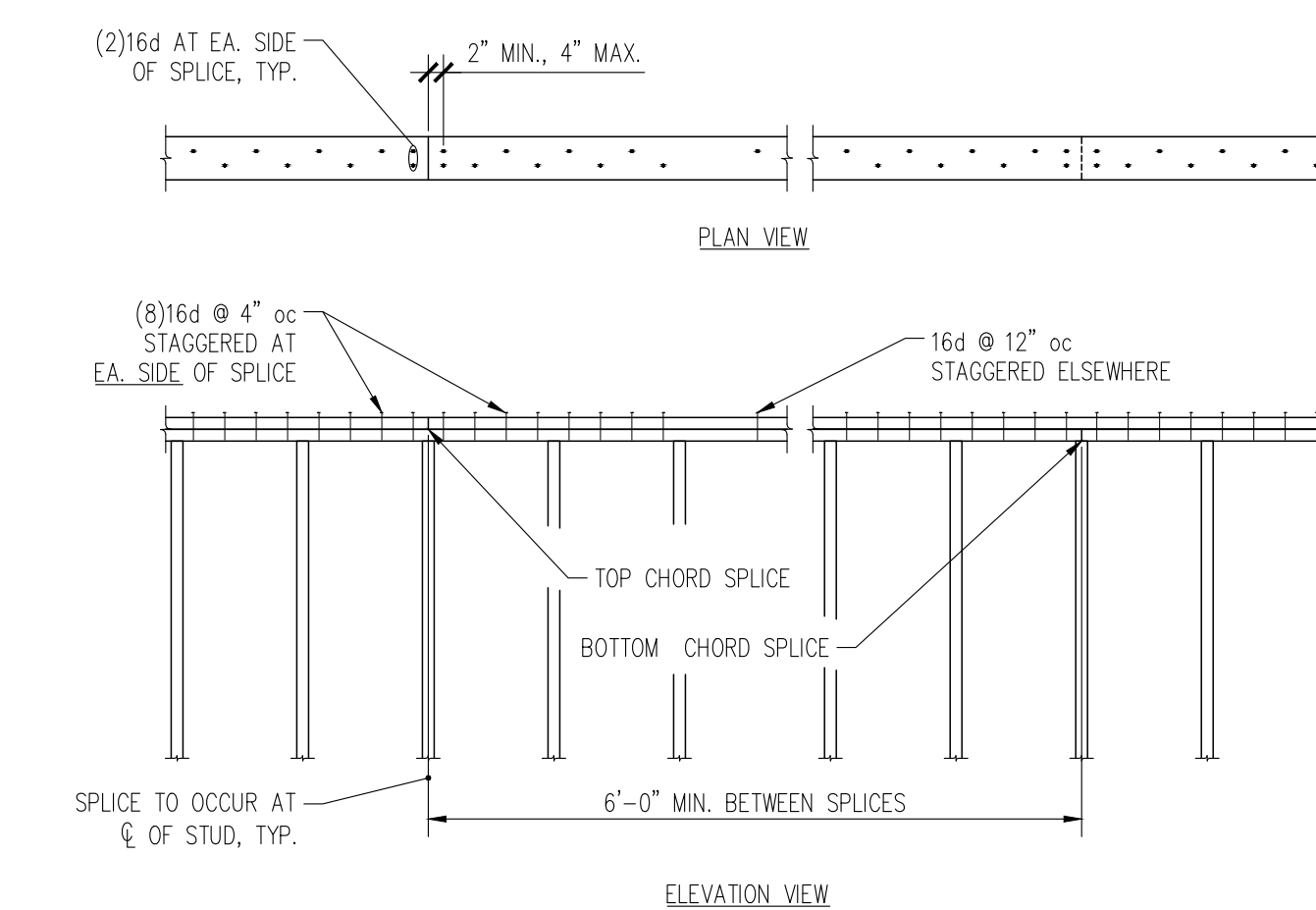
2 ALLOWABLE HOLES THROUGH TOP PLATES  
S6.2 NTS



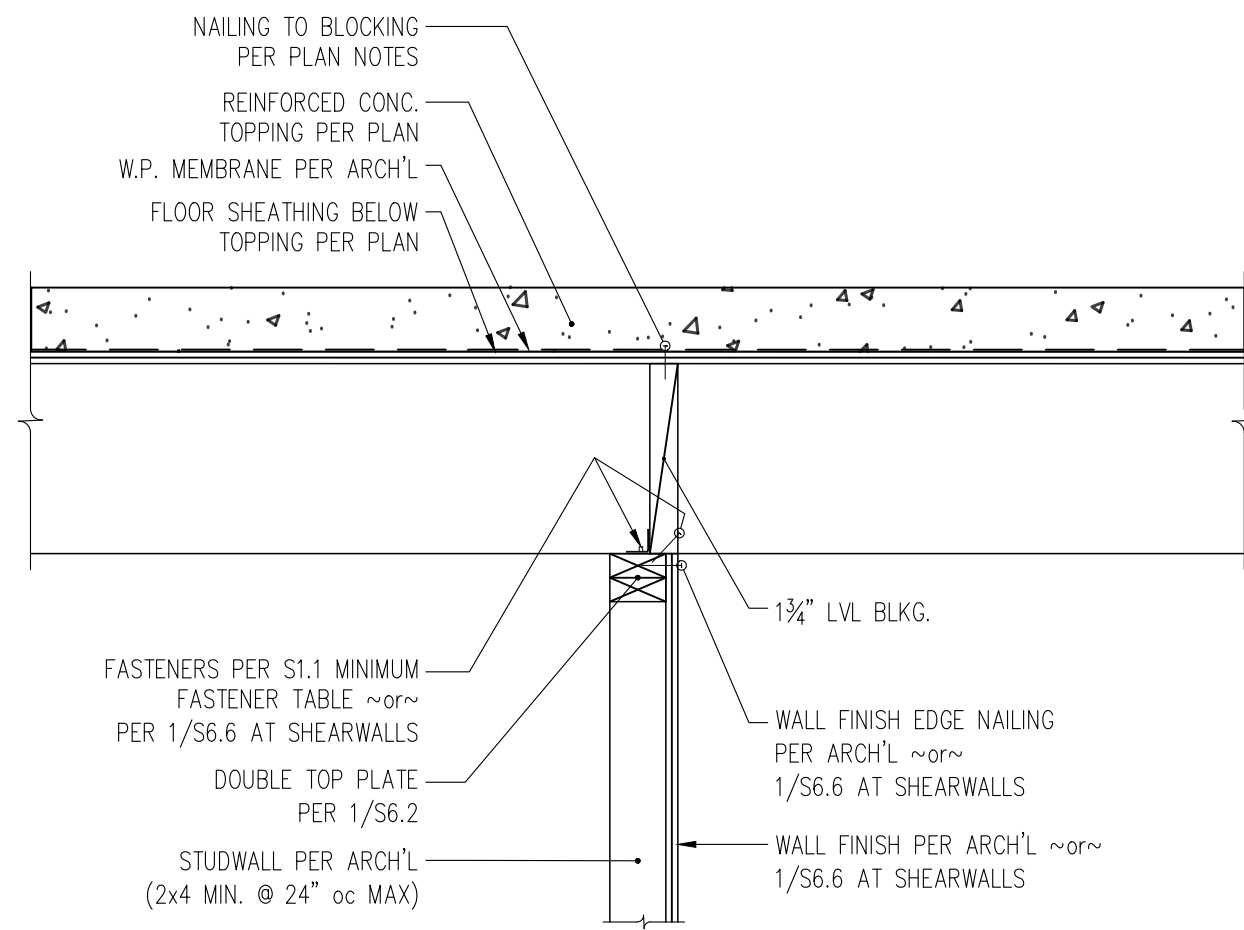
7 CONNECTION OF NON-STRUC'L PARTITION WALL TO STRUCTURE  
S6.2 NTS



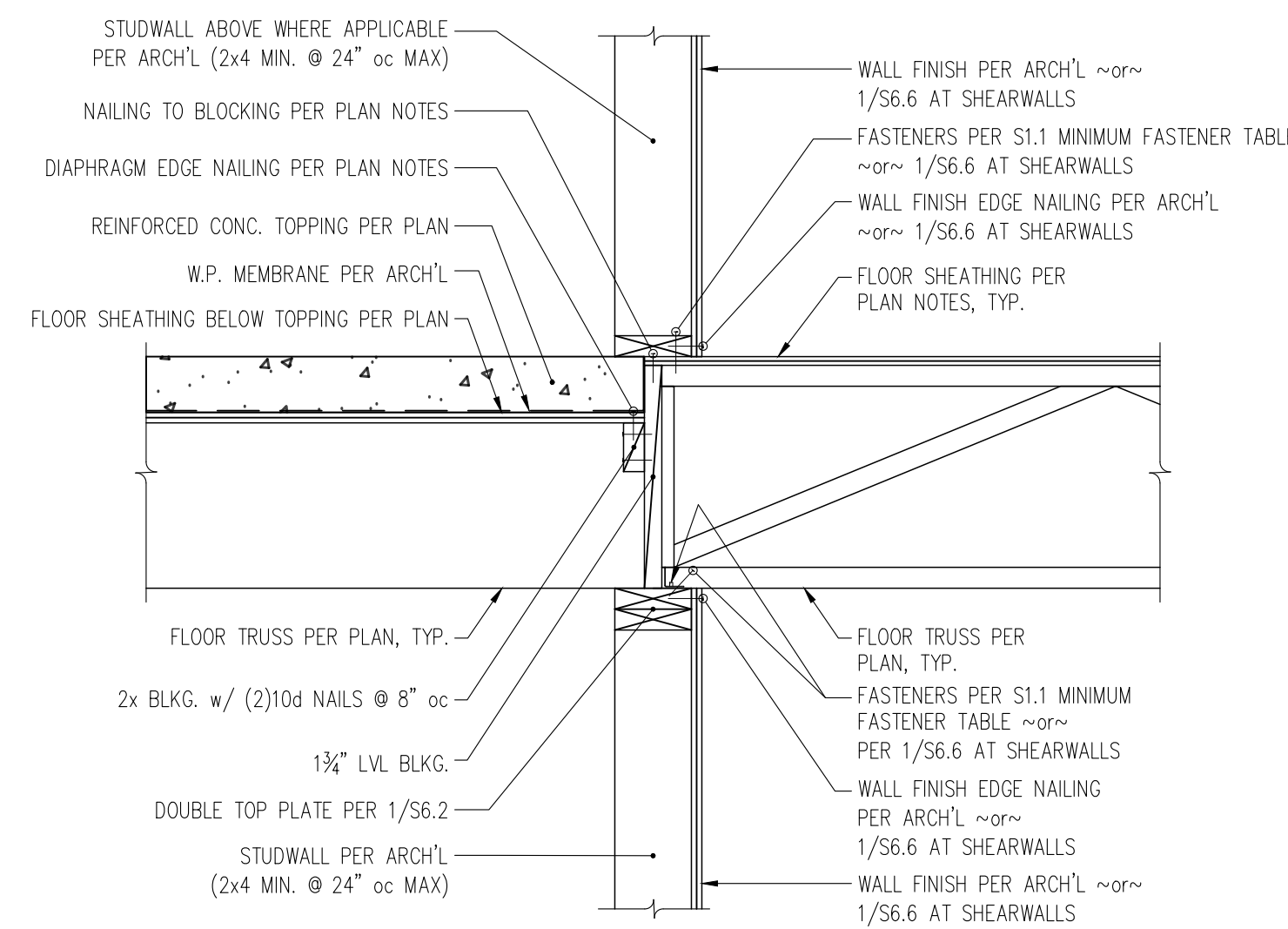
4 TYPICAL BEAM PERPENDICULAR TO WALL  
S6.2 NTS



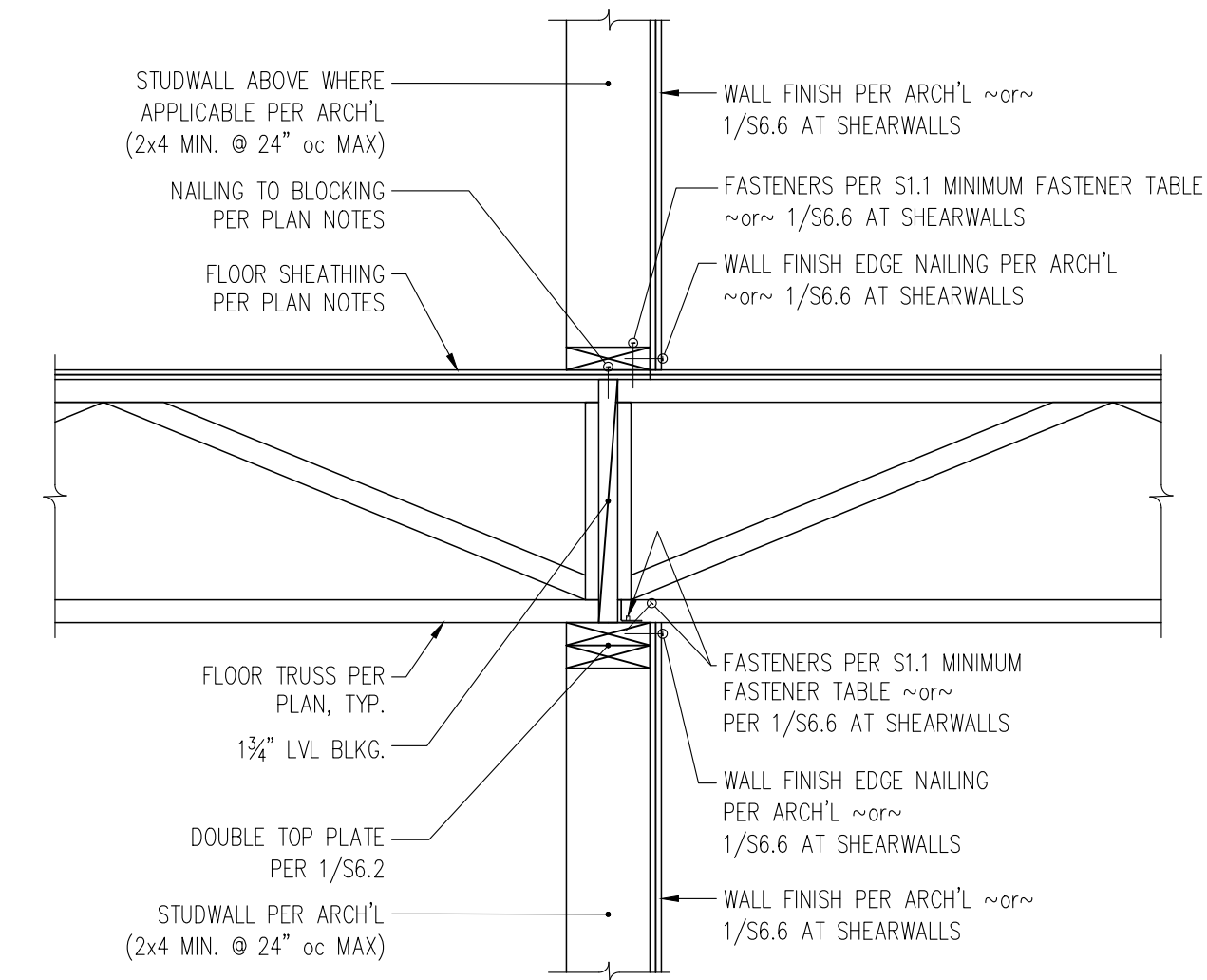
1 TOP PLATE SPLICE  
S6.2 NTS



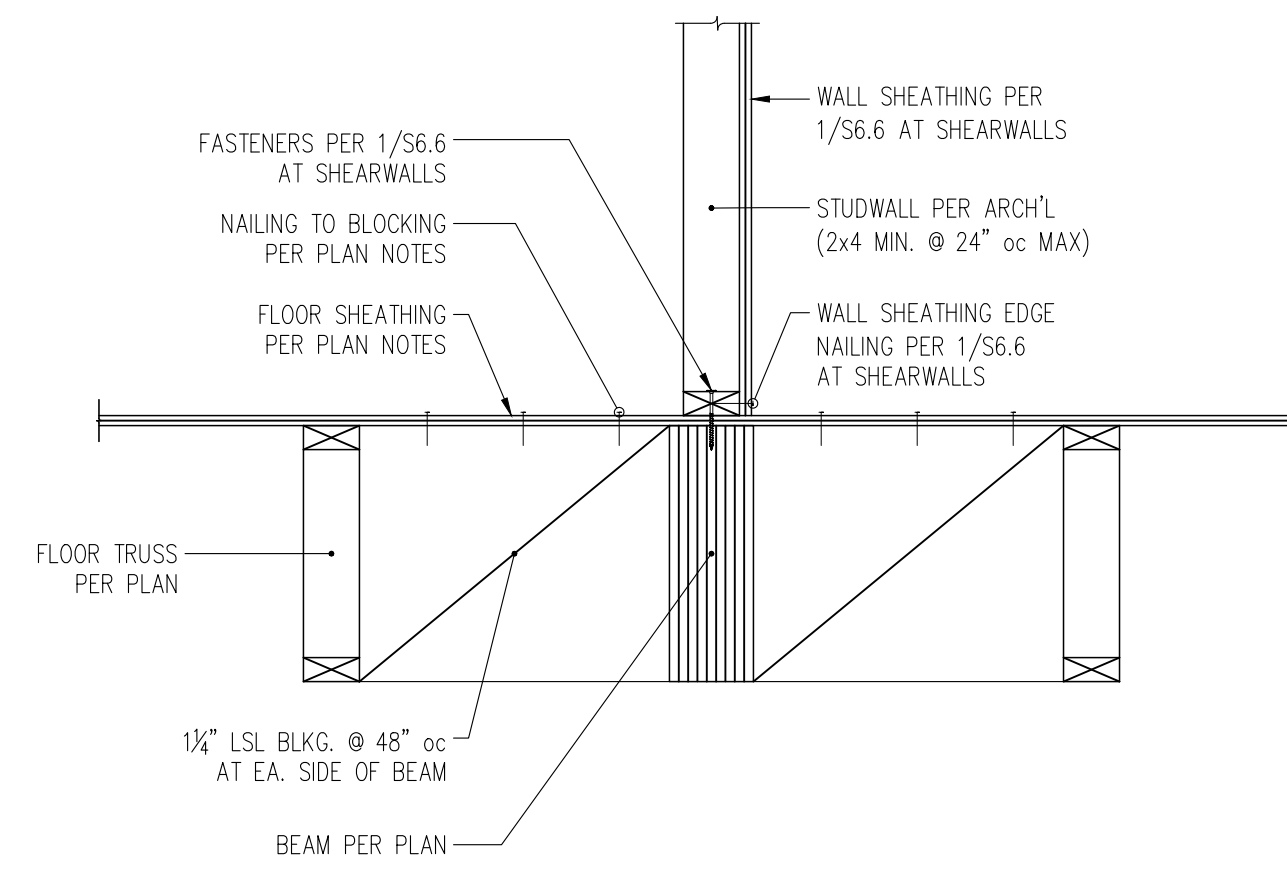
9 SECTION THROUGH INTERIOR STRUC'L WALL w/ PERPENDICULAR GARAGE JOISTS AT EA. SIDE  
S6.3 1" = 1'-0"



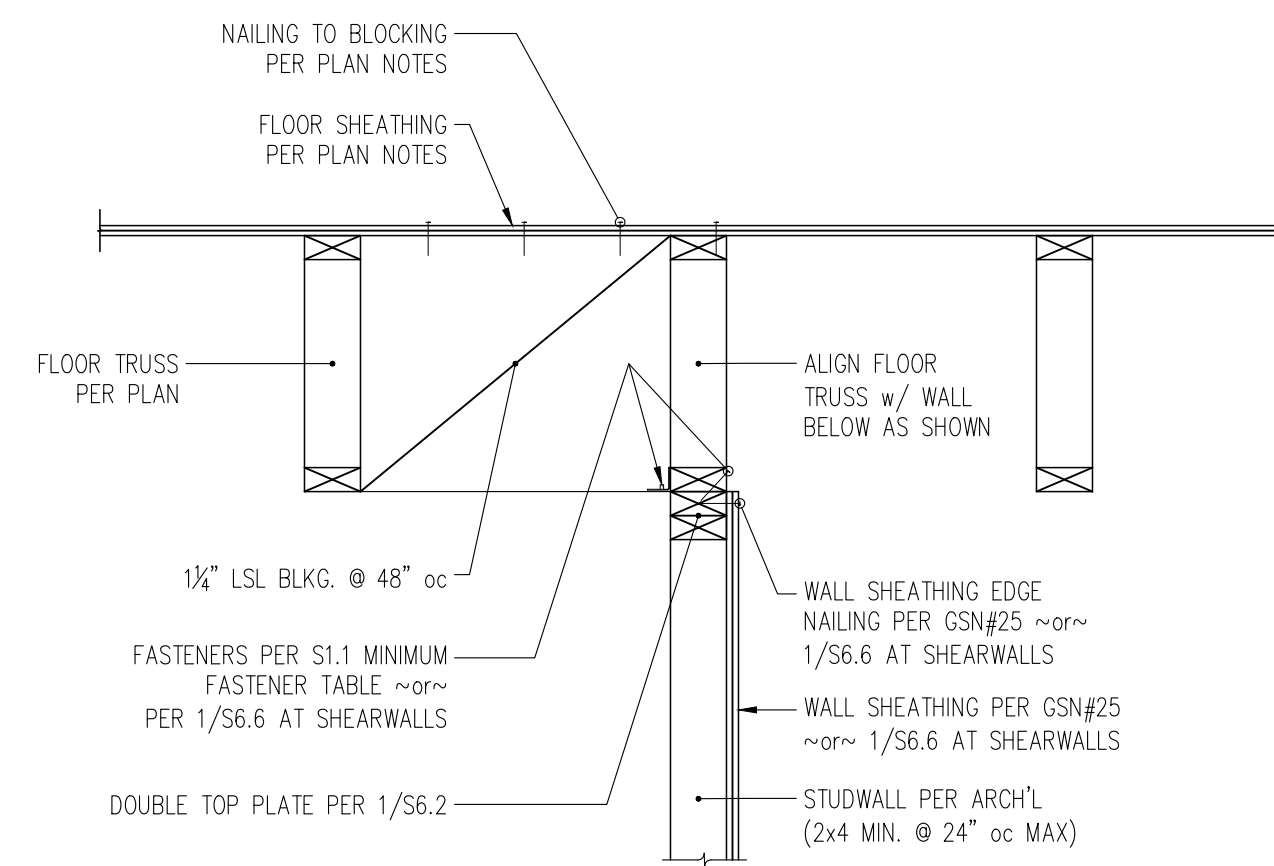
6 SECTION THROUGH INTERIOR STRUC'L WALL w/ PERPENDICULAR TRUSS AND JOIST AT OPP. SIDE  
S6.3 1" = 1'-0"



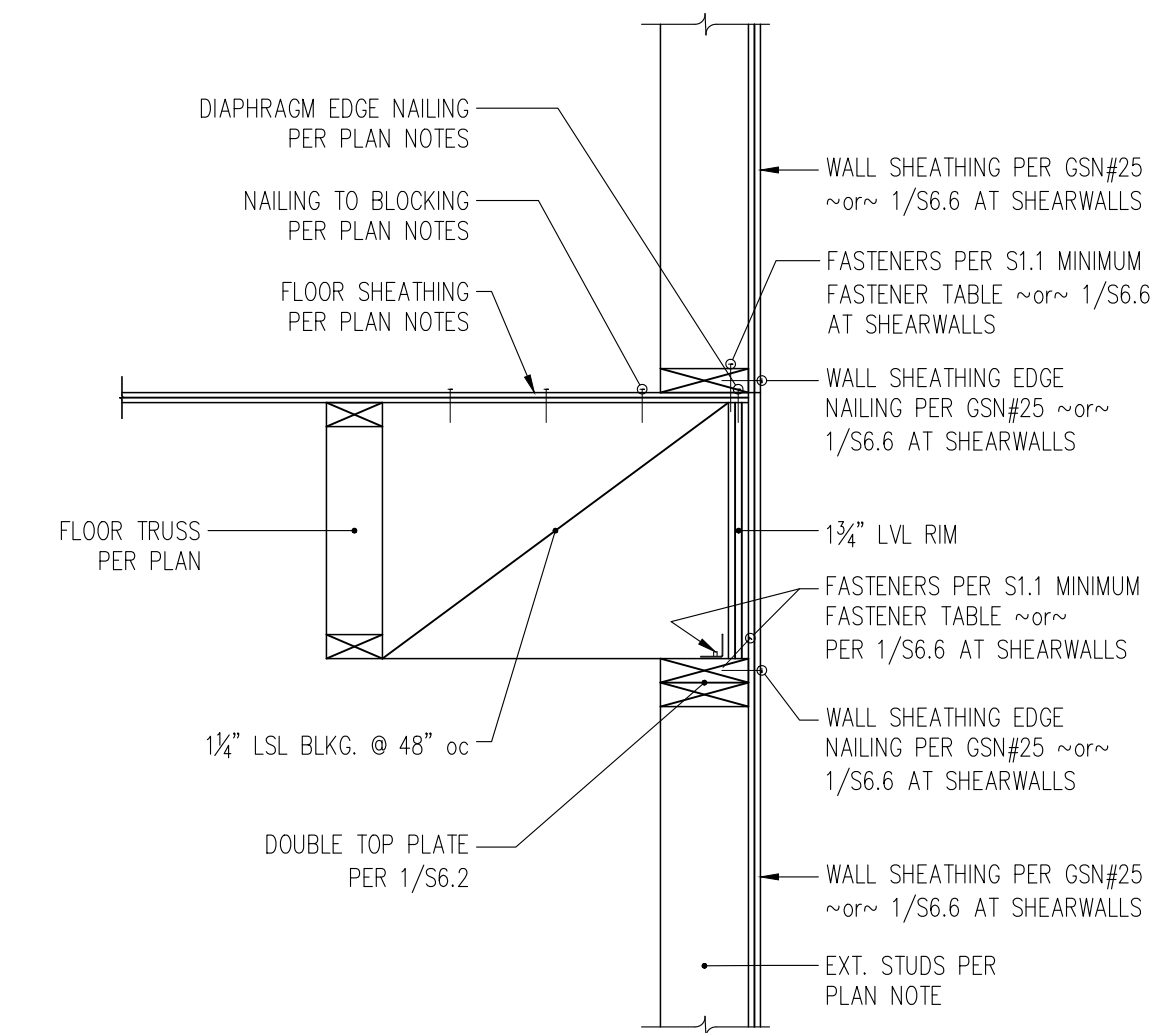
3 SECTION THROUGH INTERIOR STRUC'L WALL w/ PERPENDICULAR TRUSSES AT EA. SIDE  
S6.3 1" = 1'-0"



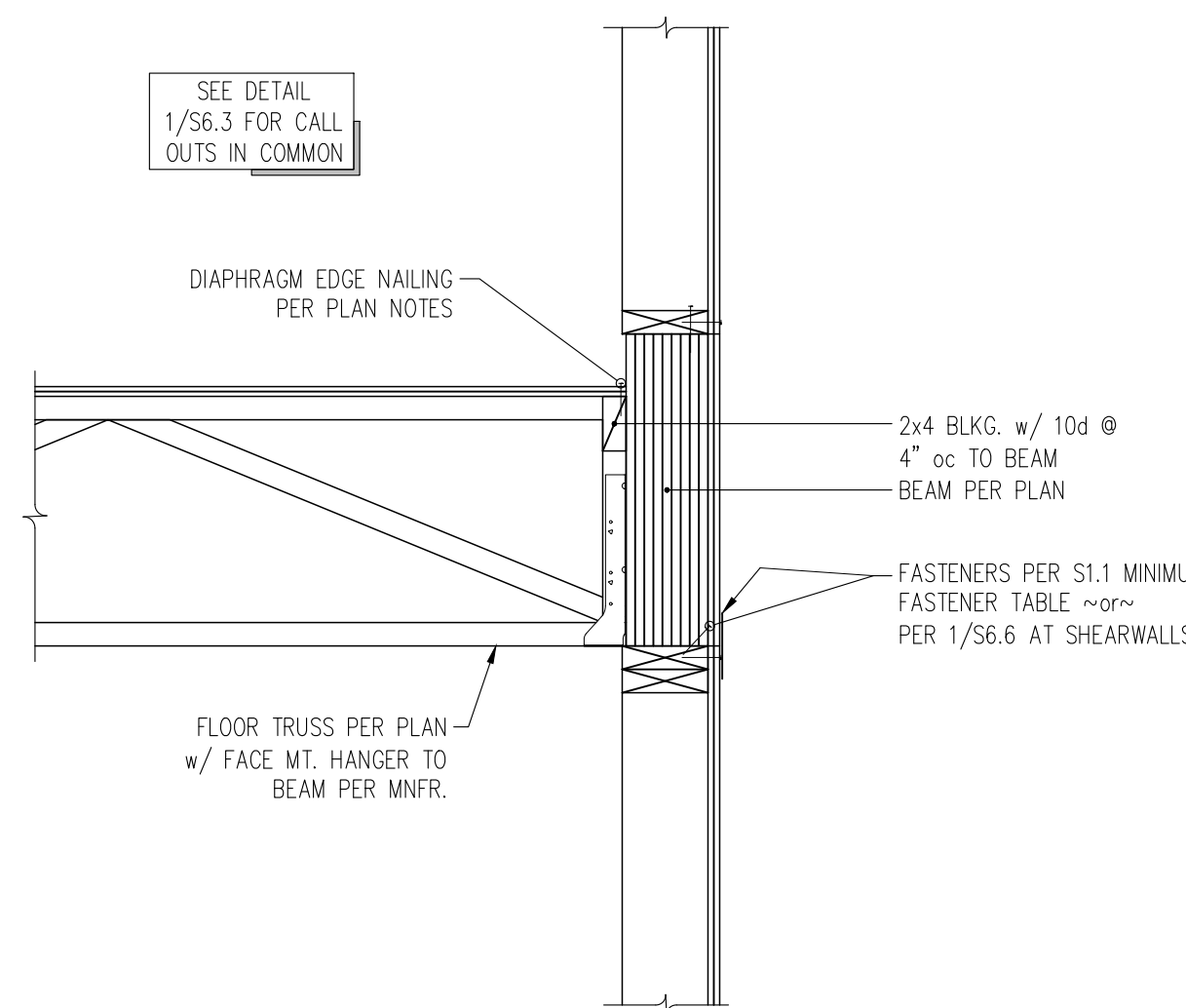
8 SECTION THROUGH FLUSH FRAMED BEAM w/ JOIST AT EACH SIDE  
S6.3 1" = 1'-0"



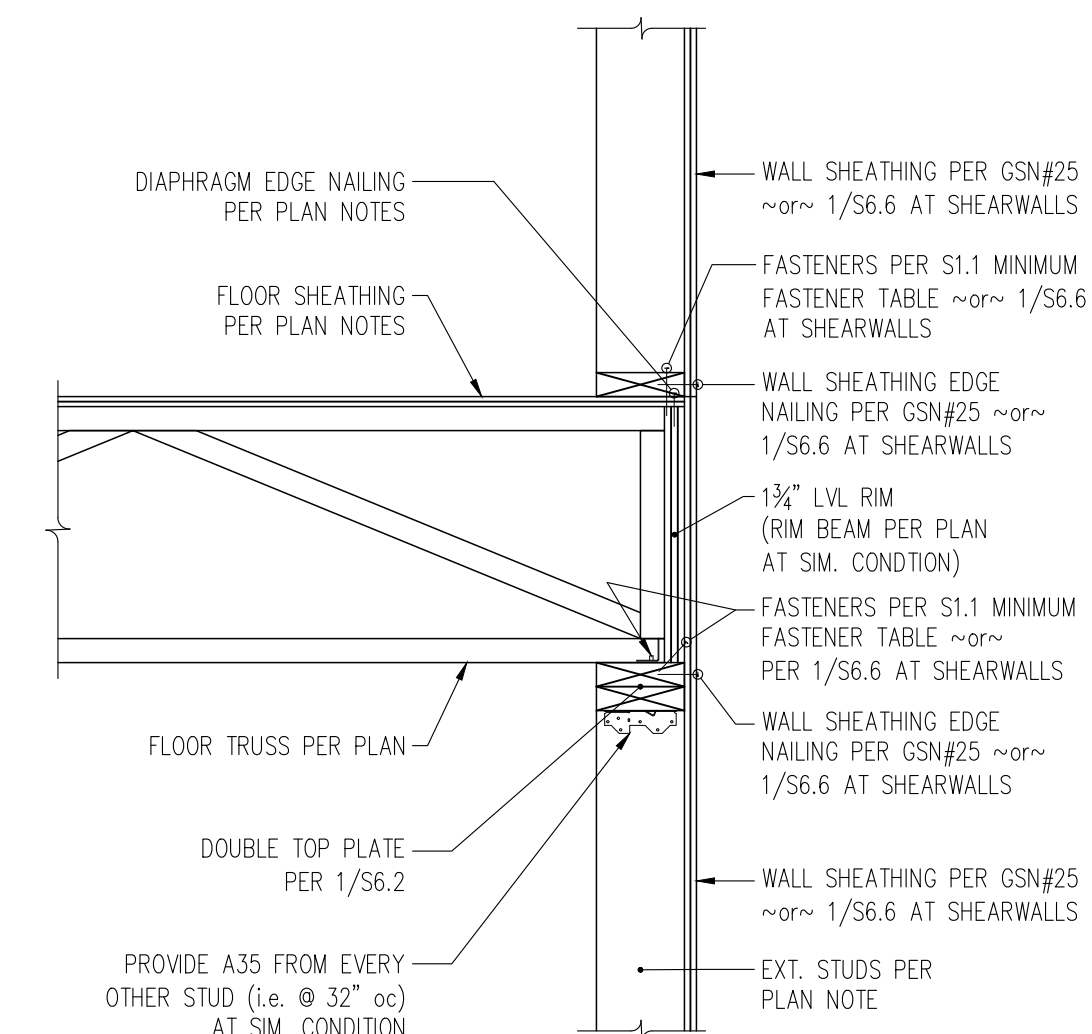
5 SECTION THROUGH INTERIOR STRUC'L WALL w/ PARALLEL TRUSSES AT EA. SIDE  
S6.3 1" = 1'-0"



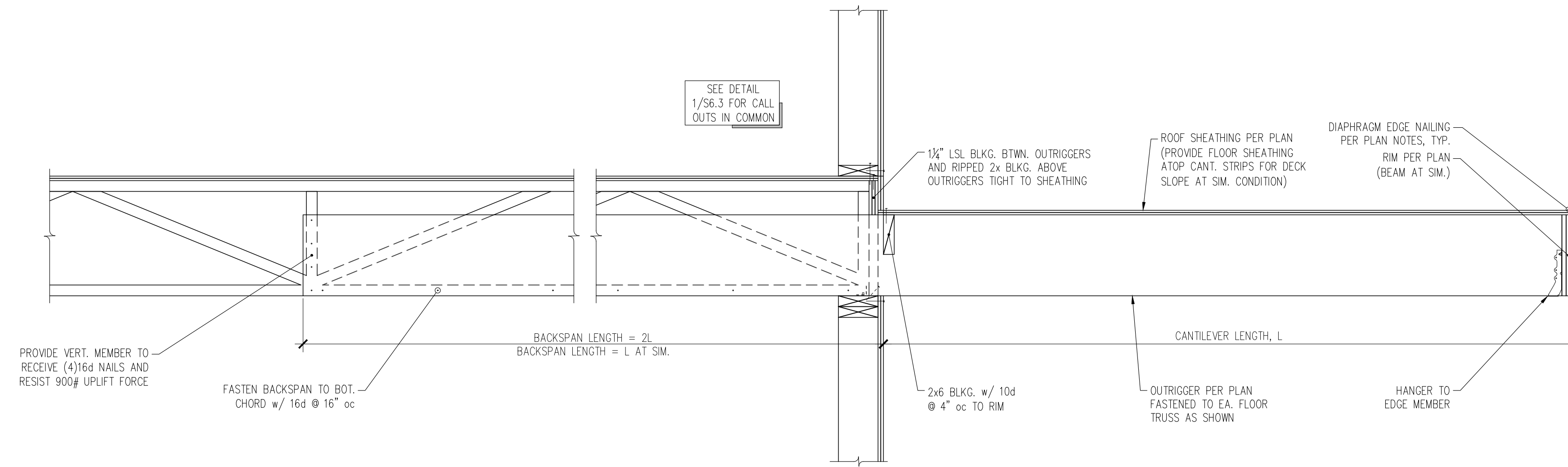
2 SECTION THROUGH EXTERIOR WALL AT PARALLEL FLOOR JOISTS  
S6.3 1" = 1'-0"



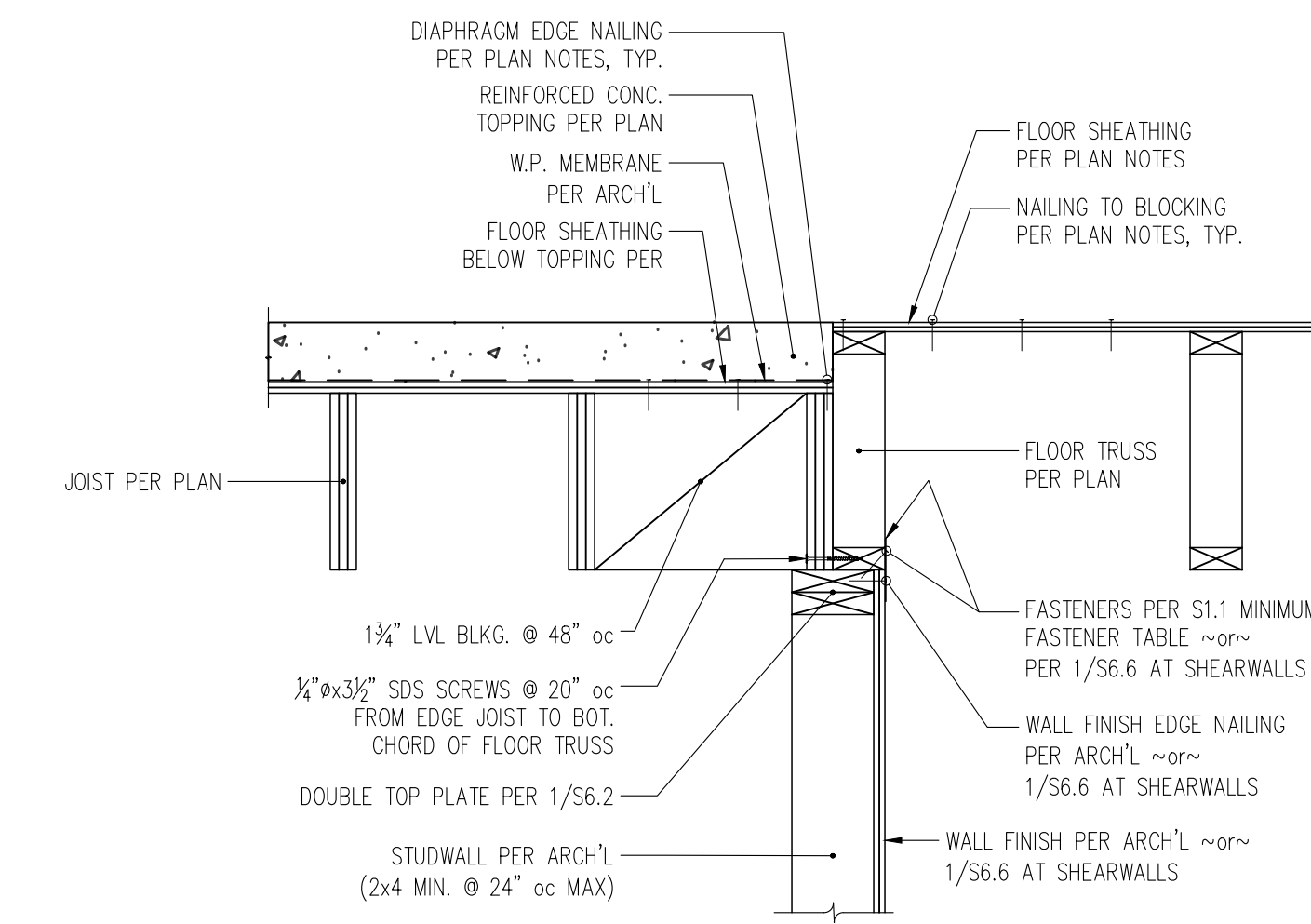
4 SECTION THROUGH UPSET BEAM IN EXTERIOR WALL AT PERPENDICULAR FLOOR TRUSS  
S6.3 1" = 1'-0"



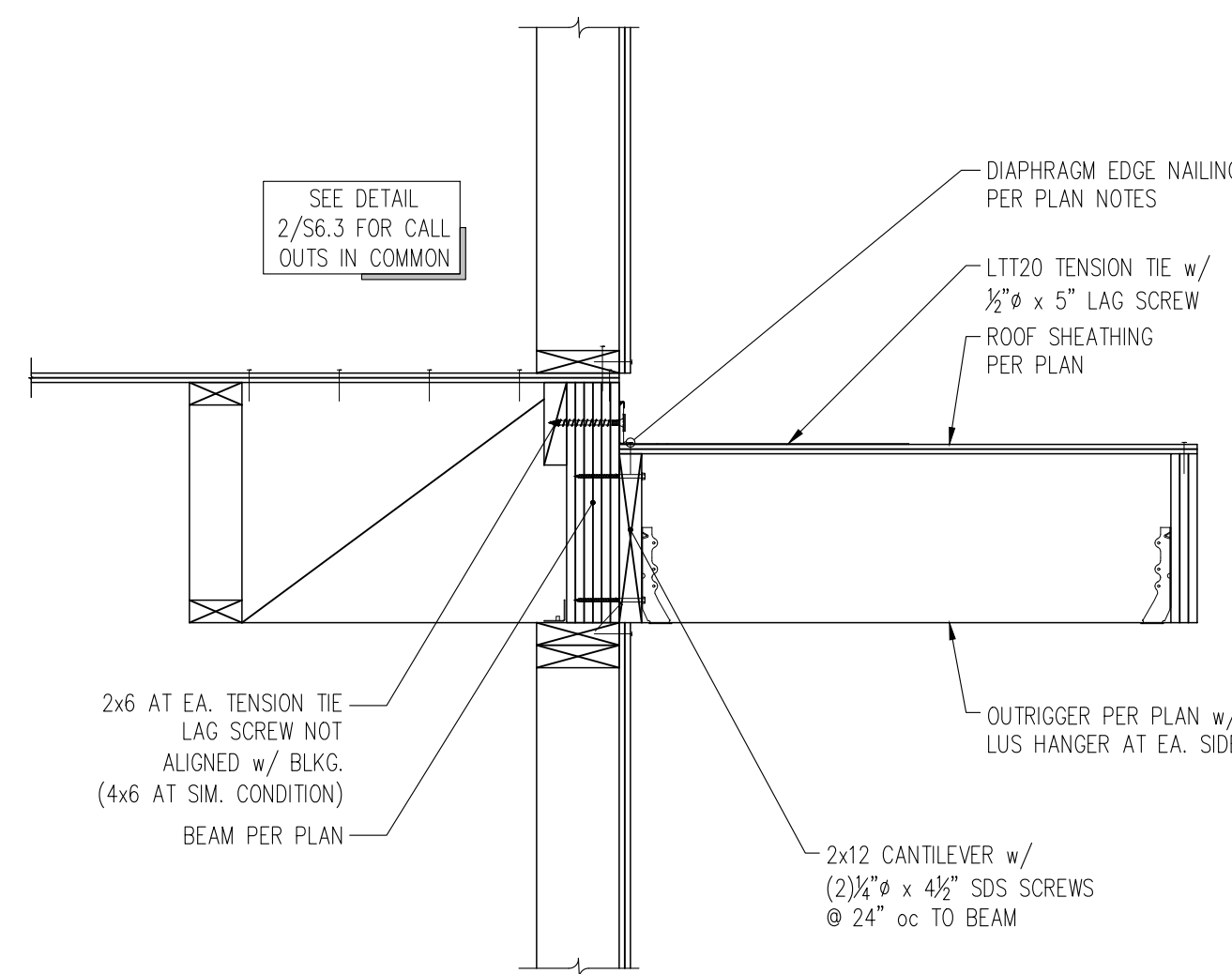
1 SECTION THROUGH EXTERIOR WALL AT PERPENDICULAR FLOOR TRUSS  
S6.3 1" = 1'-0"



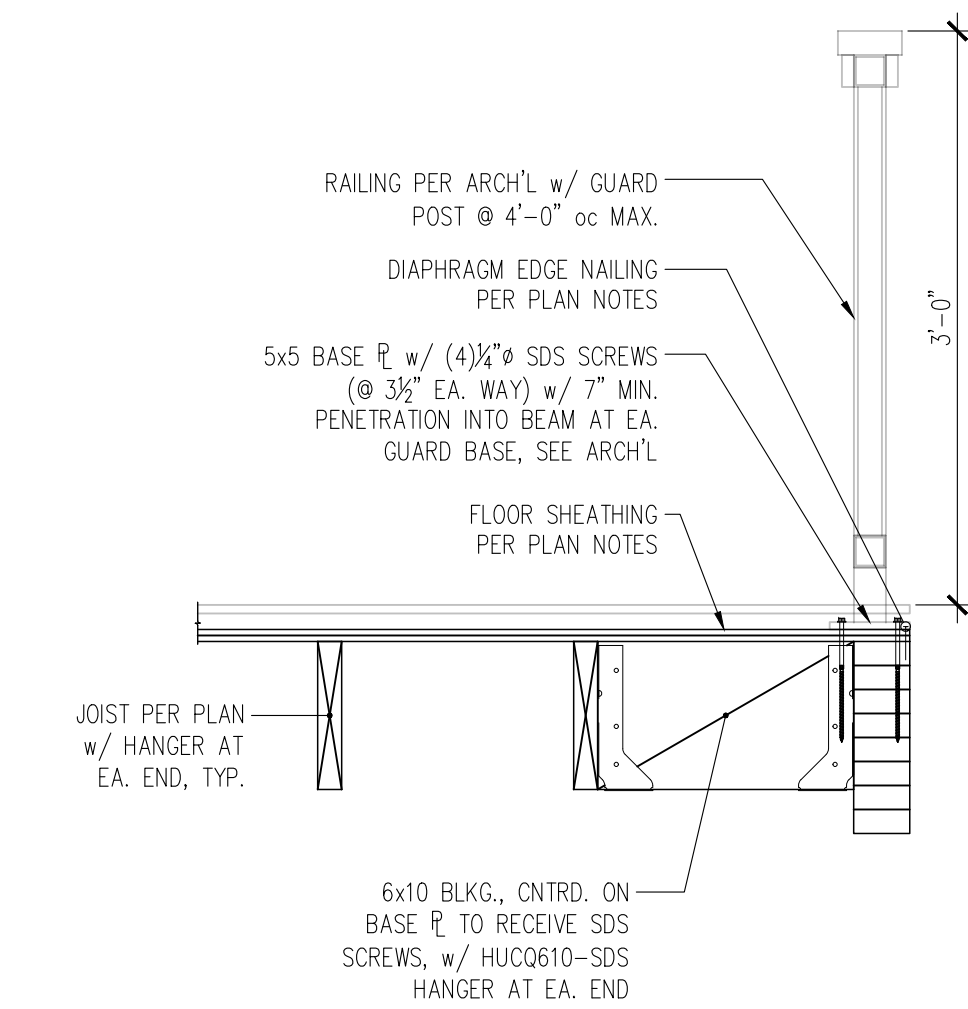
9 SECTION AT CANTILEVERED FRAMING AND PERPENDICULAR INTERIOR FRAMING  
S6.4 1" = 1'-0"



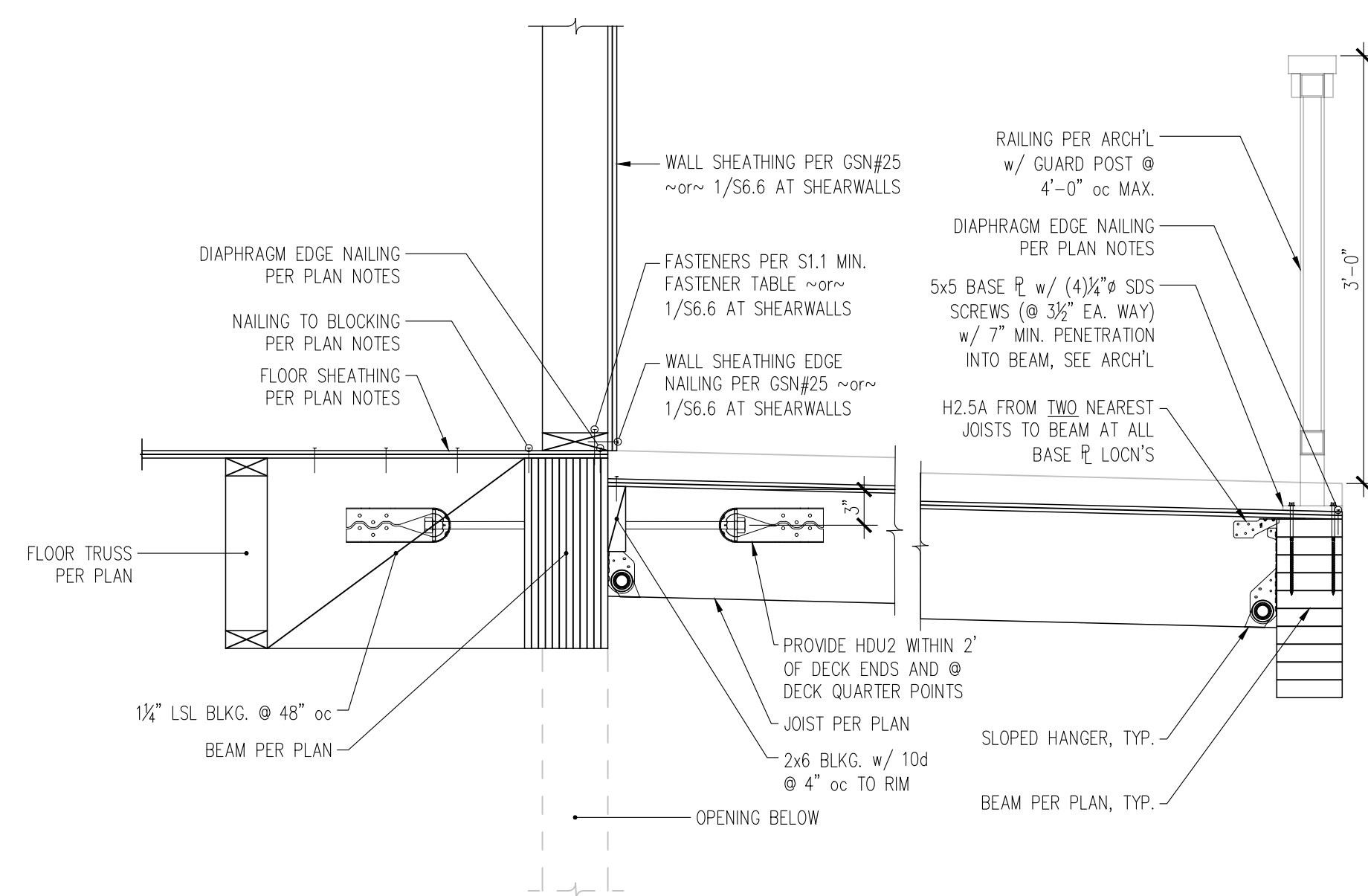
3 SECTION THROUGH INTERIOR STRUCTURAL WALL WITH PARALLEL TRUSS AND JOIST AT OPPOSITE SIDE  
S6.4 1" = 1'-0"



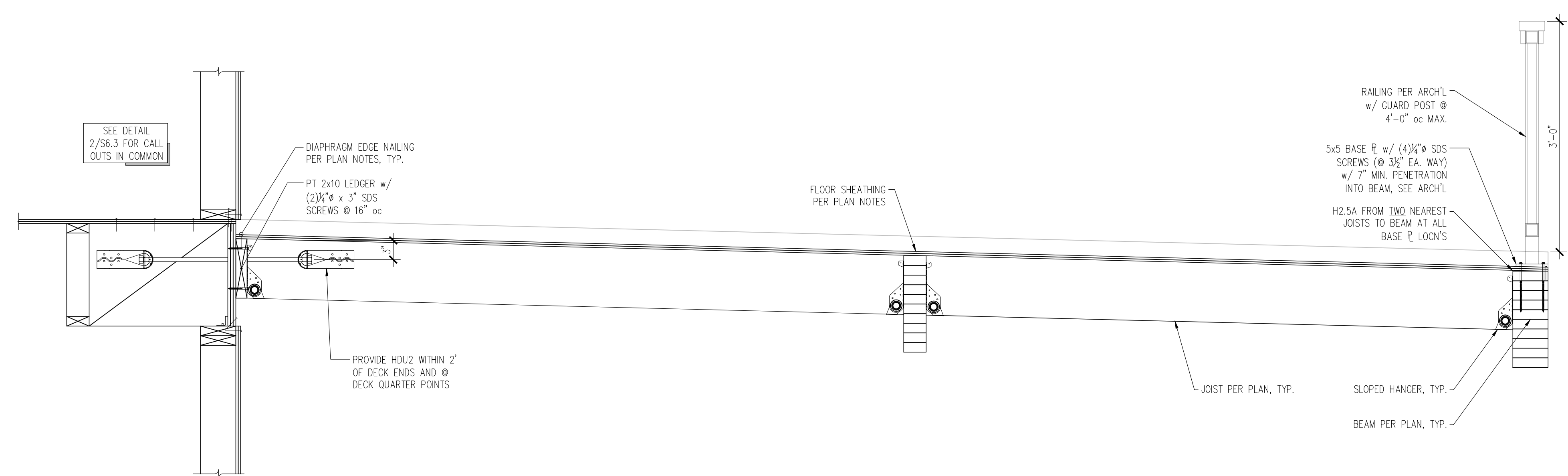
5 SECTION AT CANTILEVERED LOW ROOF AND UPPER FLOOR PARALLEL FRAMING  
S6.4 1" = 1'-0"



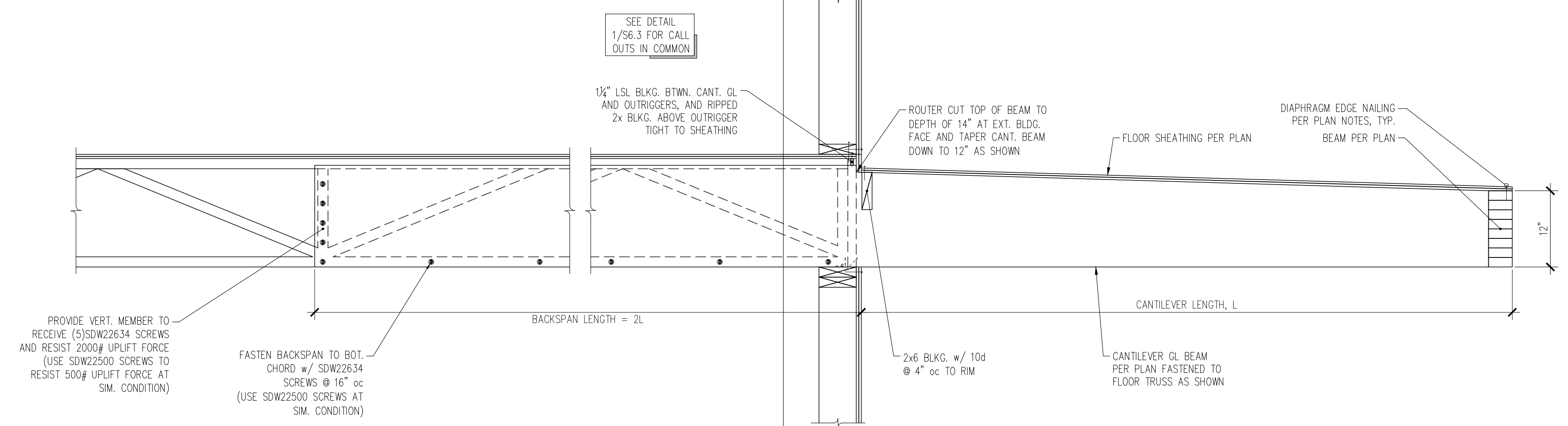
2 SECTION AT RAILING ABOVE PARALLEL FRAMING  
S6.4 1" = 1'-0"



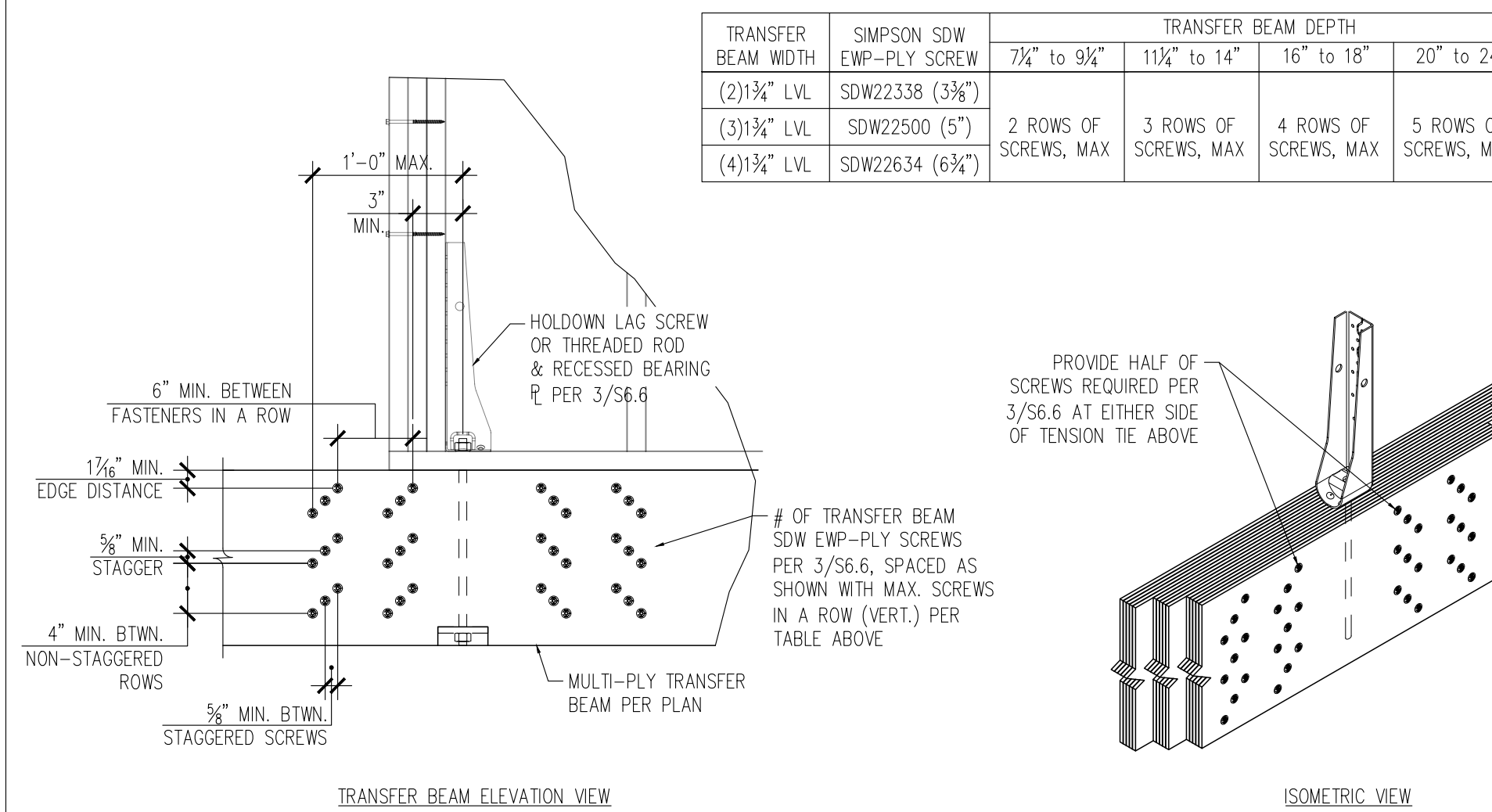
7 SECTION AT UPPER FLOOR DECK PERPENDICULAR JOISTS  
S6.4 1" = 1'-0"



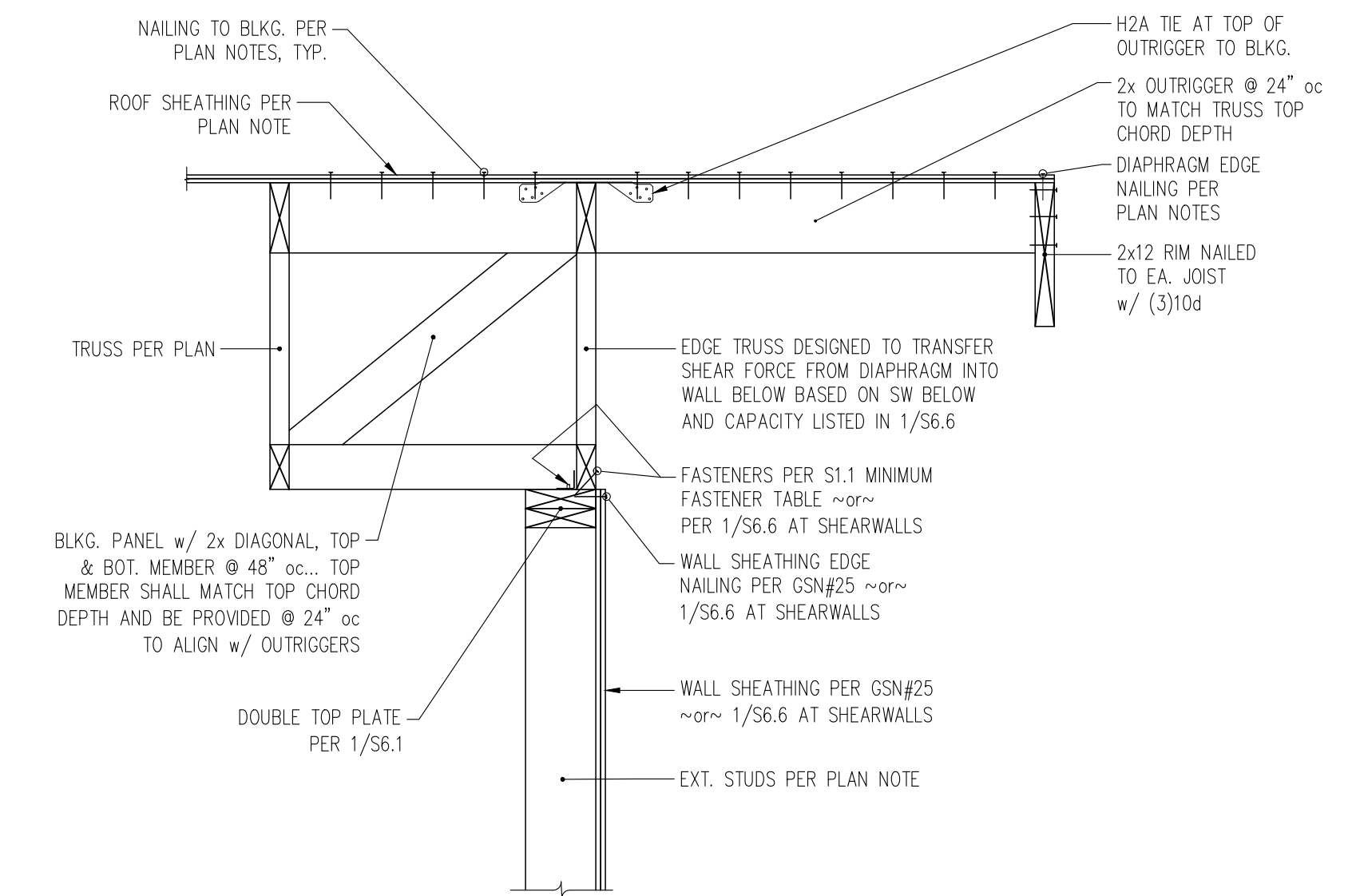
4 SECTION AT MAIN FLOOR DECK PERPENDICULAR JOISTS  
S6.4 1" = 1'-0"



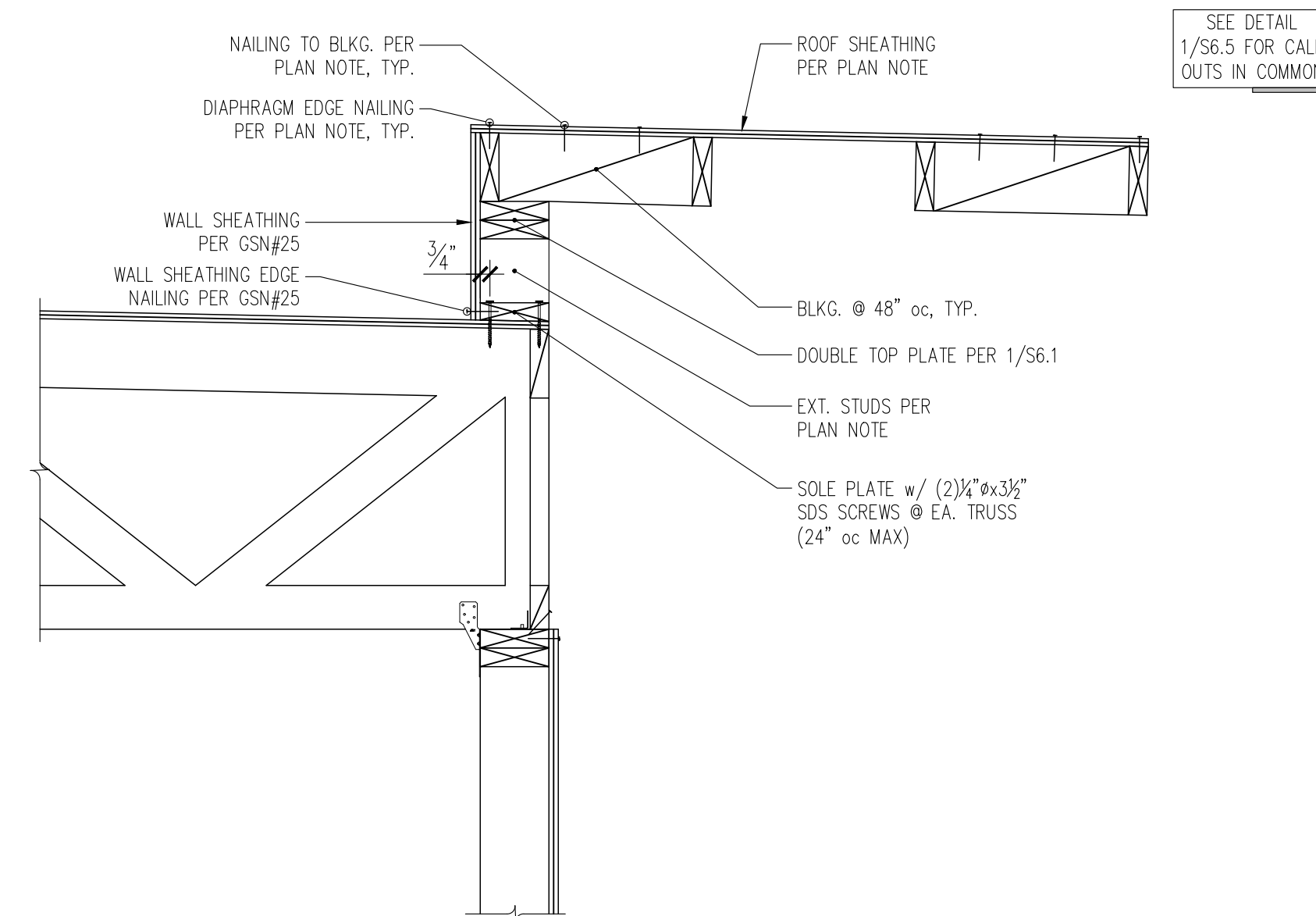
6 SECTION AT CANTILEVERED FRAMING AND PERPENDICULAR INTERIOR FRAMING  
S6.5 1" = 1'-0"



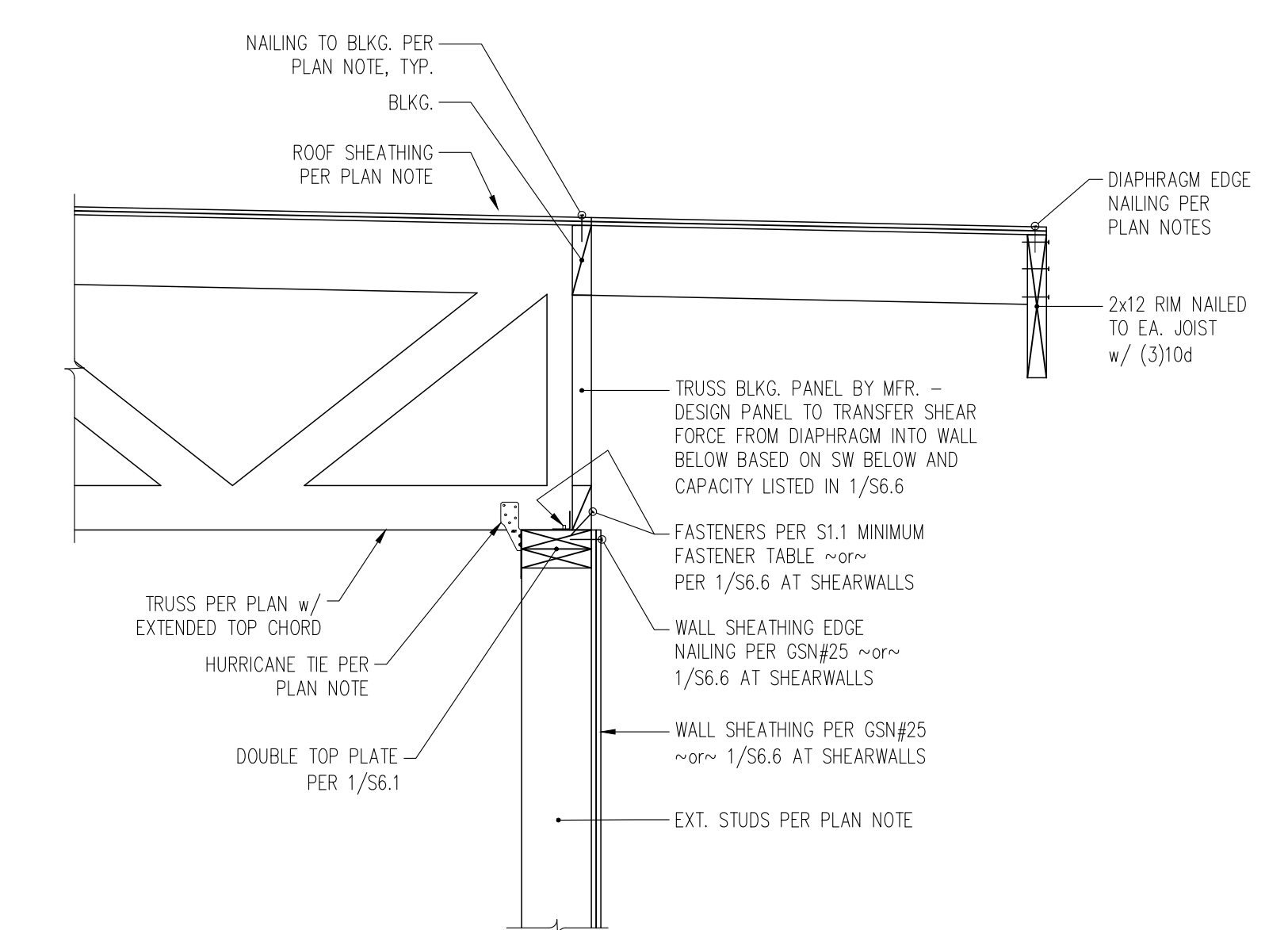
5 MULTI-PLY TRANSFER BEAM CONNECTION DETAILS  
S6.5 1" = 1'-0"



2 SECTION THROUGH EXTERIOR WALL AT PARALLEL ROOF TRUSSES  
S6.5 1" = 1'-0"

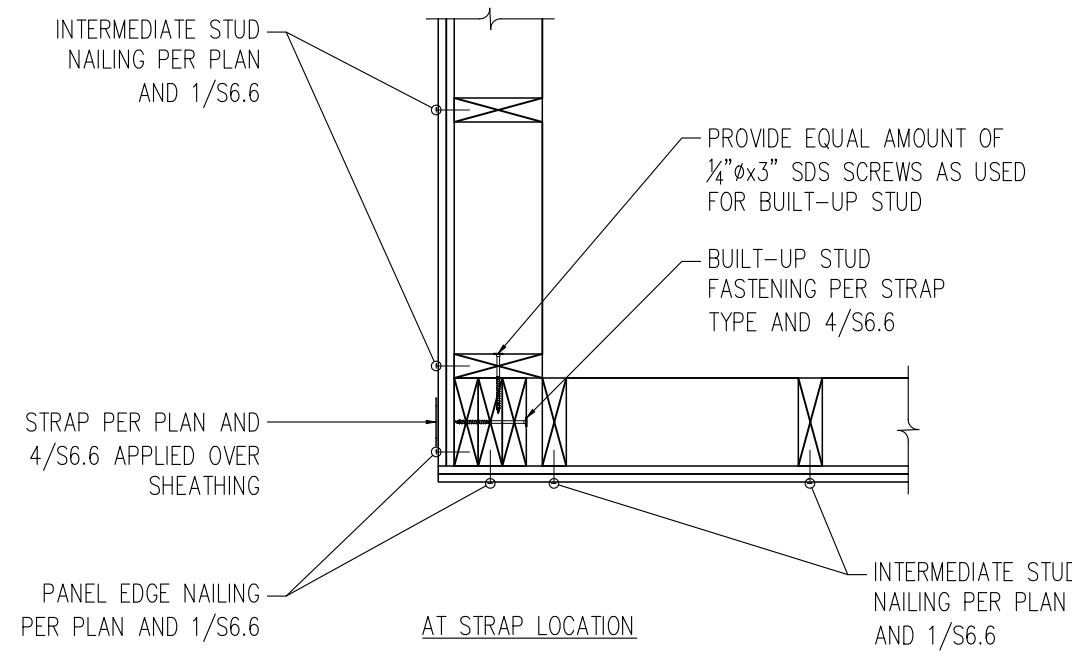


4 SECTION THROUGH RAISED ROOF AT PERPENDICULAR ROOF TRUSSES  
S6.5 1" = 1'-0"

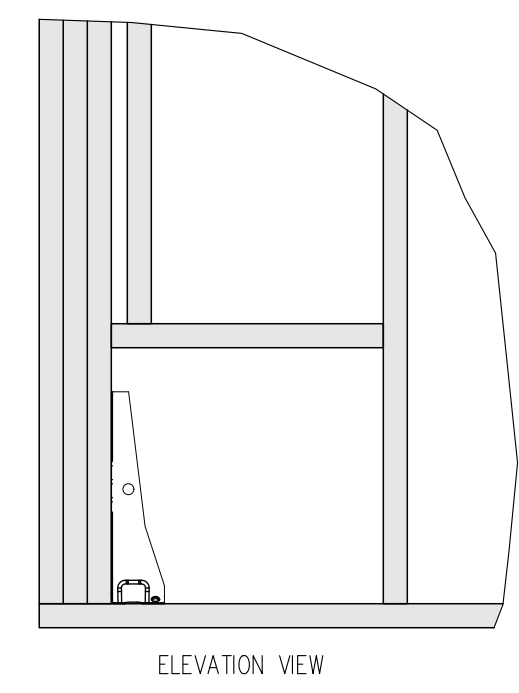


1 SECTION THROUGH EXTERIOR WALL AT PERPENDICULAR ROOF TRUSSES  
S6.5 1" = 1'-0"

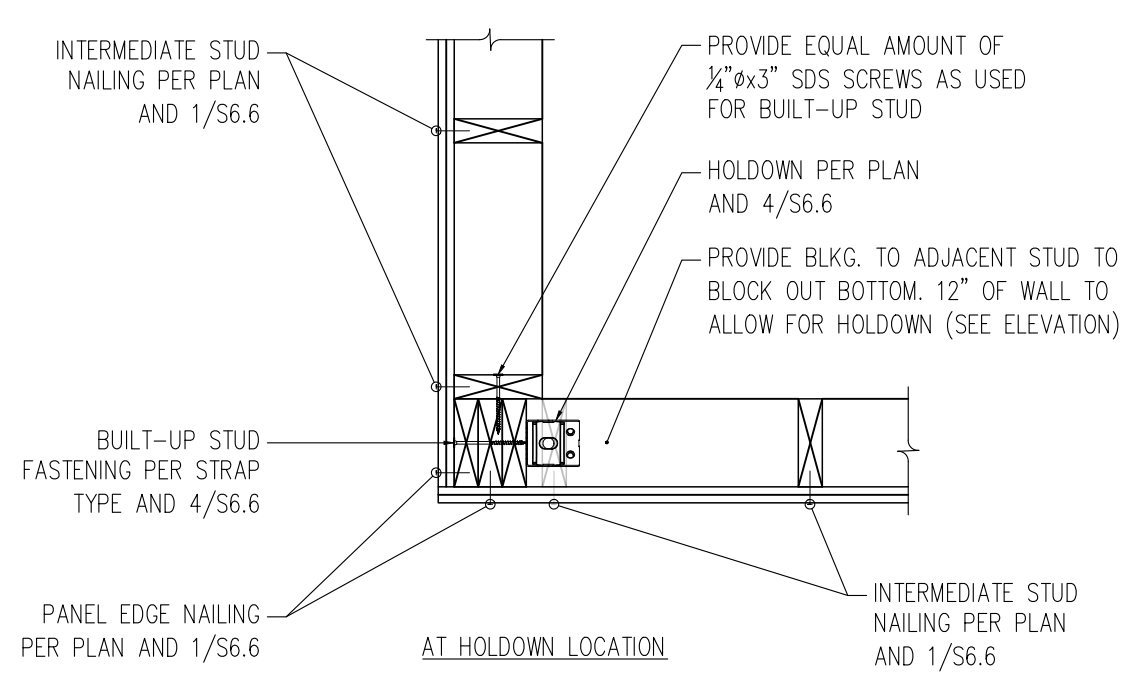




AT STRAP LOCATION



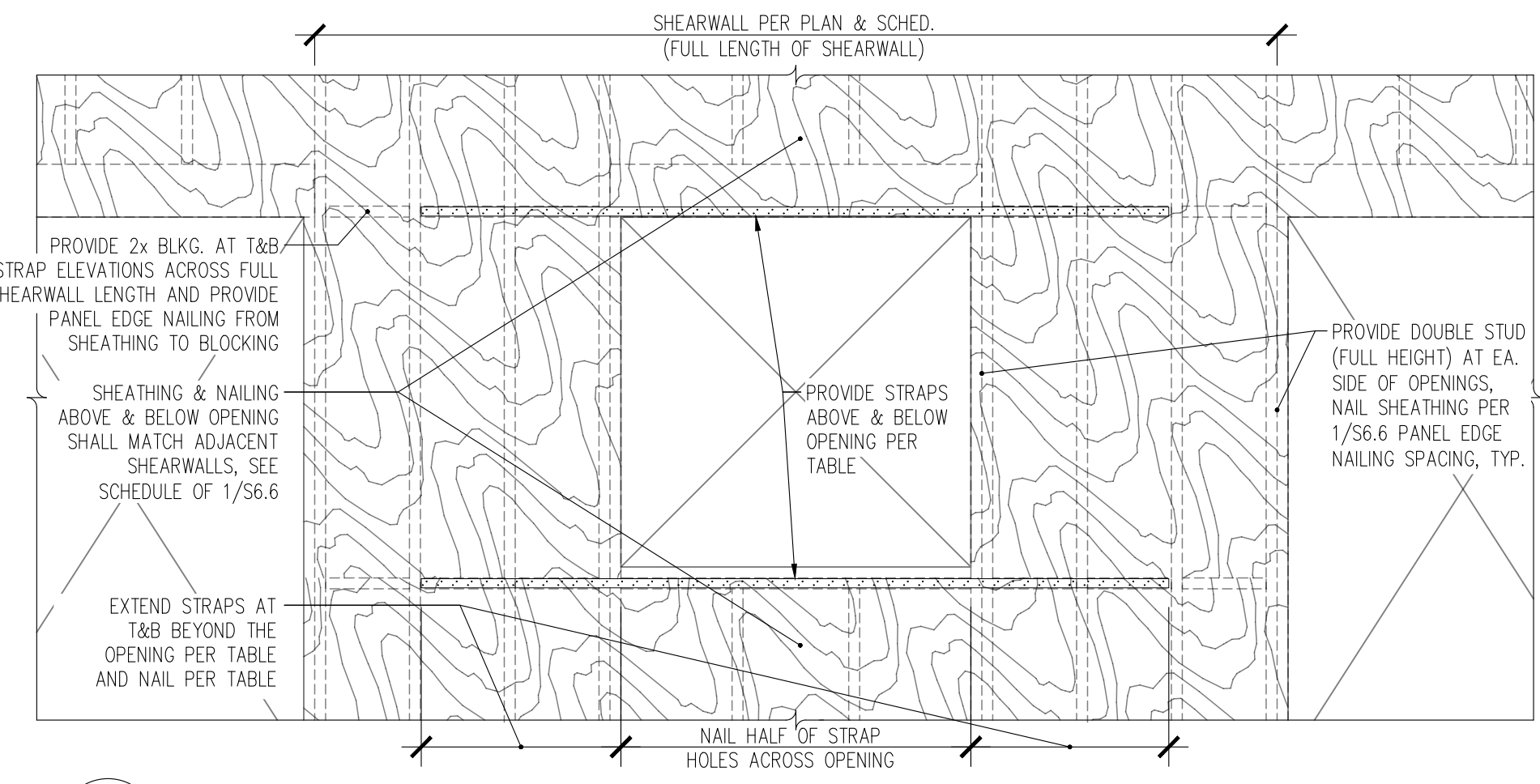
ELEVATION VIEW



AT HOLD-DOWN LOCATION

8 SHEAR WALL INTERSECTION AND TENSION TIE POSITIONING  
S6.6 N.T.S.

TYPE	STRAP	END LENGTH	NAILS
①	CS20	10"	(12)0.148"x2 1/2"
②	CS20	24"	(12)0.148"x2 1/2"
③	CS14	45"	(26)0.148"x2 1/2"



7 STRAPPED SHEARWALL DETAIL  
S6.6 N.T.S.

STRAP TENSION TIE SCHEDULE

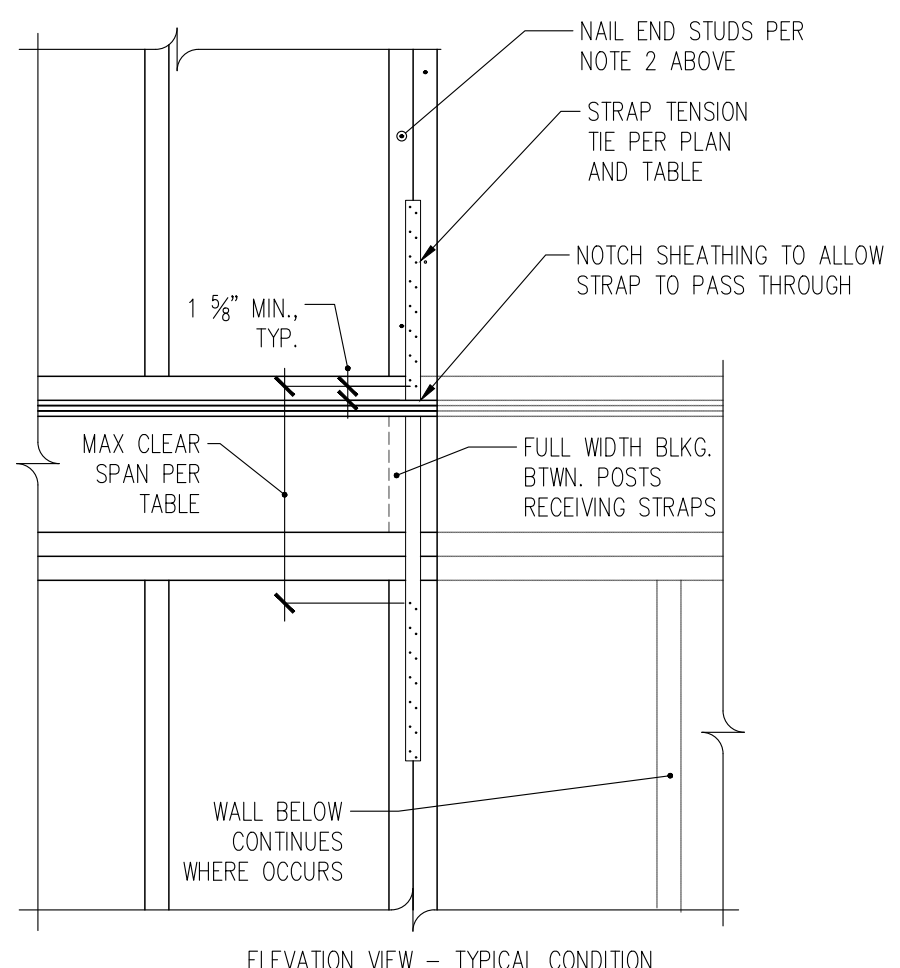
TIE MARK	Min. # of studs	CLEAR SPAN AND TOTAL FASTENERS	ASD CAPACITY	BUILT-UP STUD FACE NAILS or SCREWS
MSTC28	(2)2x	18" - (12)0.148" x 3/4"	1,150#	10d @ 6" oc
MSTC40	(2)2x	18" - (28)0.148" x 3/4"	2,690#	10d @ 4" oc
MSTC52	(3)2x	18" - (44)0.148" x 3/4"	4,225#	(8)1/4"x4 1/2" SDS
MSTC66	(3)2x	18" - (64)0.148" x 3/4"	5,850#	(12)1/4"x6" SDS
(2)MSTC52	(4)2x	18" - (64)0.148" x 3/4"	7,750#	(14)1/4"x6" SDS
(2)MSTC66	6x6	18" - (64)0.148" x 3/4"	9,800#	(12)1/4"x6" SDS

- TENSION TIE TYPES REFER TO SIMPSON STRONG-TIE CATALOG CALLOUTS.
- NAIL PLYWOOD SHEATHING TO STUDS RECEIVING HOLD-DOWN WITH SCHEDULED PANEL EDGE NAILING. STAGGER NAILS SO THAT EACH STUD IS NAILED.
- FASTENERS NOTED IN TABLE ABOVE REPRESENT THE TOTAL AMOUNT. FOR STRAPS, HALF OF THE FASTENERS SHALL BE PROVIDED INTO EACH STUD.
- SCREWS SHALL BE SPACED EQUALLY ALONG FULL HEIGHT OF STUD ABOVE TENSION TIE. PROVIDE SCREWS AS NOTED IN TABLE AT ONE FACE OF BUILT-UP STUD, AND 10d @ 6" oc NAILS AT OPPOSITE FACE OF BUILT UP STUD.

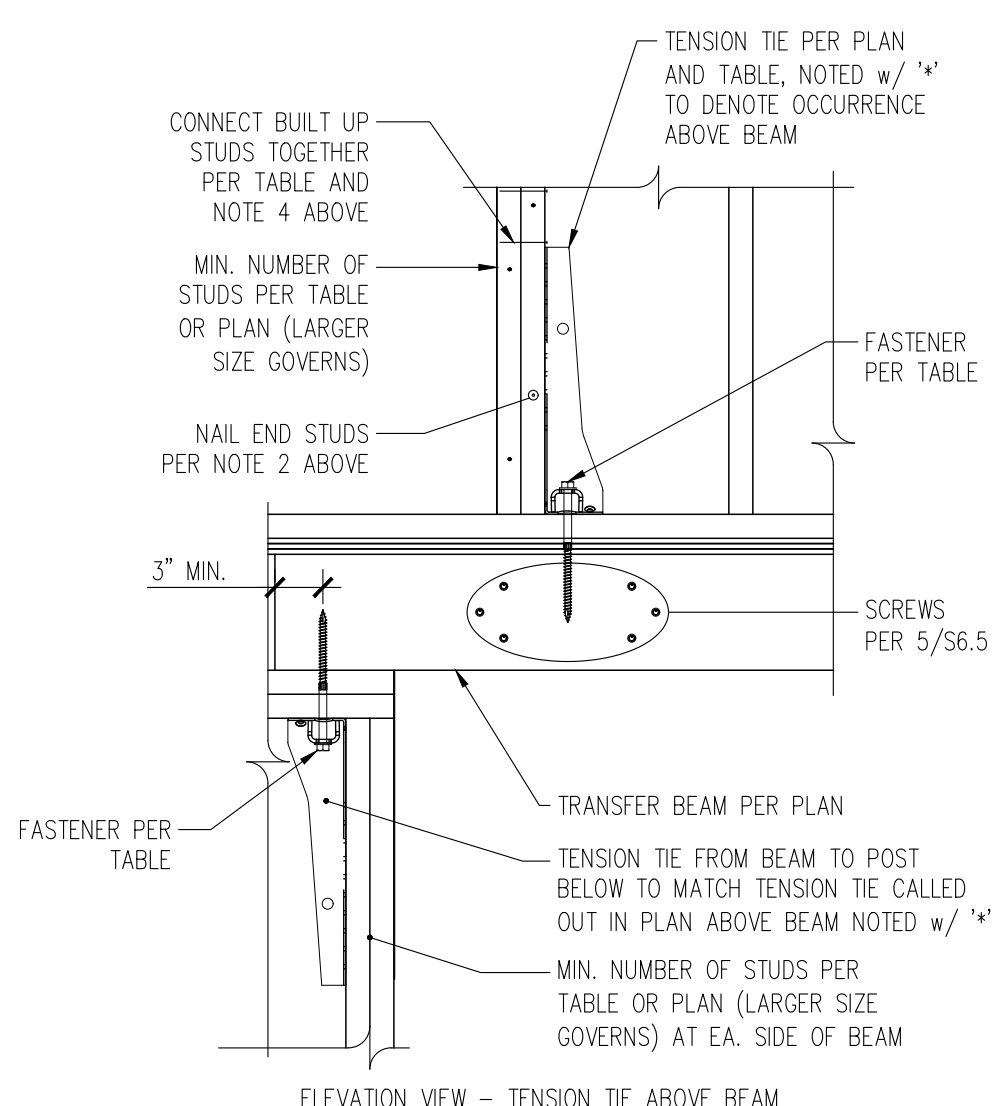
^ DENOTES TENSION TIE THAT OCCURS ATOP OF A FRAMING MEMBER BELOW. FOR:  
 HDU2^ - 3/8" LAG SCREW WITH 7" MINIMUM PENETRATION INTO BEAM - 6 TOTAL SDW EWP-PLY SCREWS, SEE 5/56.5  
 HDU4^ - 3/8" LAG SCREW WITH 10" MINIMUM PENETRATION INTO BEAM - 6 TOTAL SDW EWP-PLY SCREWS, SEE 5/56.5  
 HDU8^ - 7/8" LAG SCREW WITH 14" MINIMUM PENETRATION INTO BEAM - 14 TOTAL SDW EWP-PLY SCREWS, SEE 5/56.5  
 HDU11^ - 3/4" ROD w/ BEARING PLATE 1/2"x5"x0"-5" AND RECESSED NUT & WASHER - 16 TOTAL SDW EWP-PLY SCREWS, SEE 5/56.5  
 HDU14^ - 3/4" ROD w/ BEARING PLATE 1/2"x5"x0"-5" AND RECESSED NUT & WASHER - 22 TOTAL SDW EWP-PLY SCREWS, SEE 5/56.5

TENSION TIE ABOVE BEAM

TIE MARK	Min. # of studs	FASTENERS	ASD CAPACITY	BUILT-UP STUD FACE NAILS or SCREWS
HOU2^	(2)2x	(6)1/4" x 2 1/2" SDS	2,750#	10d @ 4" oc
HOU4^	(3)2x	(10)1/4" x 2 1/2" SDS	3,750#	(10)1/4"x4 1/2" SDS
HOU8^	(4)2x	(20)1/4" x 2 1/2" SDS	7,750#	(15)1/4"x6" SDS
HOU11^	6x6	(30)1/4" x 2 1/2" SDS	9,800#	N/A
HOU14^	6x6	(36)1/4" x 2 1/2" SDS	14,000#	N/A



ELEVATION VIEW - TYPICAL CONDITION

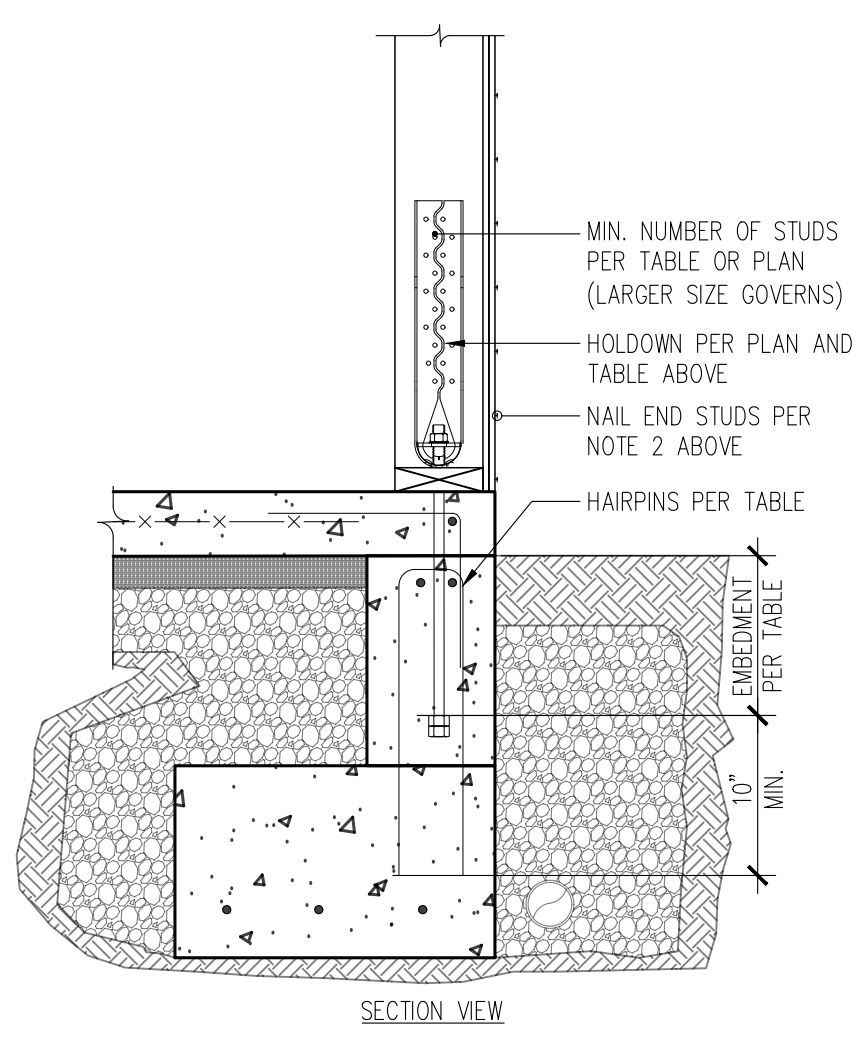


ELEVATION VIEW - TENSION TIE ABOVE BEAM

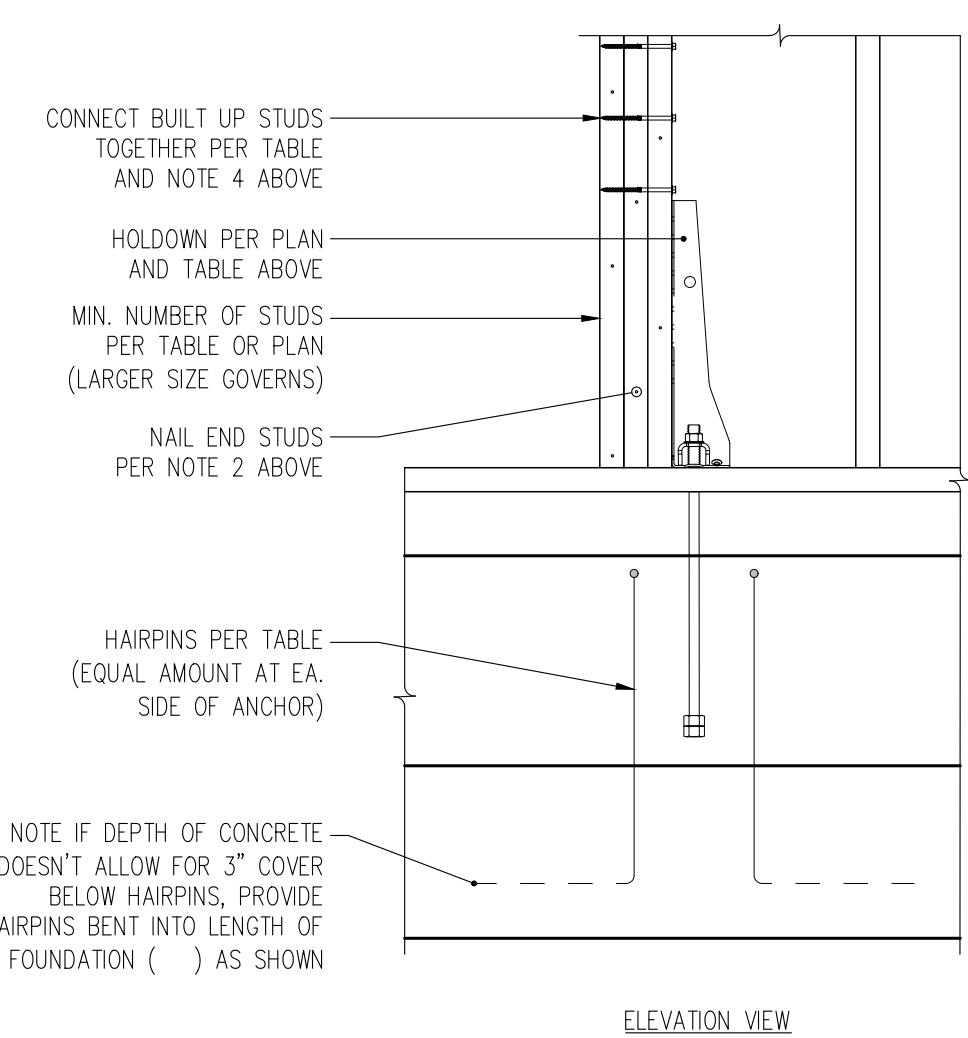
HOLD-DOWN TENSION TIE SCHEDULE

TIE MARK	MIN. NUMBER OF STUDS	ANCHOR (Ø x EMBEDMENT) and No. of HAIRPIN DOWELS	FASTENERS FROM TIE TO STUD	ASD CAPACITY	BUILT-UP STUD FACE NAILS or SCREWS
HOU2	(2)2x	3/8" x 10" - (2)#4 HAIRPIN	(6)1/4" x 2 1/2" SDS SCREWS	3,075#	10d @ 4" oc
HOU4	(3)2x	3/8" x 10" - (2)#4 HAIRPIN	(10)1/4" x 2 1/2" SDS SCREWS	4,565#	(9)1/4"x4 1/2" SDS
HOU5	(3)2x	3/8" x 10" - (2)#4 HAIRPIN	(14)1/4" x 2 1/2" SDS SCREWS	5,645#	(10)1/4"x4 1/2" SDS
HOU8	(4)2x	3/8" x 10" - (4)#4 HAIRPIN	(20)1/4" x 2 1/2" SDS SCREWS	7,870#	(15)1/4"x6" SDS
HOU11	6x6	1" x 10" - (4)#4 HAIRPIN	(30)1/4" x 2 1/2" SDS SCREWS	11,175#	N/A
HOU14	6x6	1" x 10" - (6)#4 HAIRPIN	(36)1/4" x 2 1/2" SDS SCREWS	14,445#	N/A

- TENSION TIE TYPES REFER TO SIMPSON STRONG-TIE CATALOG CALLOUTS.
- NAIL PLYWOOD SHEATHING TO STUDS RECEIVING HOLD-DOWN WITH SCHEDULED PANEL EDGE NAILING. STAGGER NAILS SO THAT EACH STUD IS NAILED.
- ANCHORS SHALL BE HEAVY HEX HEAD WITH DOUBLE NUT CAST INTO CONCRETE. ASTM F 1554 Gr. 36 FOR 3/8" ANCHOR. ASTM F 1554 Gr. 55 FOR 1" ANCHORS.
- SCREWS SHALL BE SPACED EQUALLY ALONG FULL HEIGHT OF STUD ABOVE TENSION TIE. PROVIDE SCREWS AS NOTED IN TABLE AT ONE FACE OF BUILT-UP STUD, AND 10d @ 6" oc NAILS AT OPPOSITE FACE OF BUILT UP STUD.

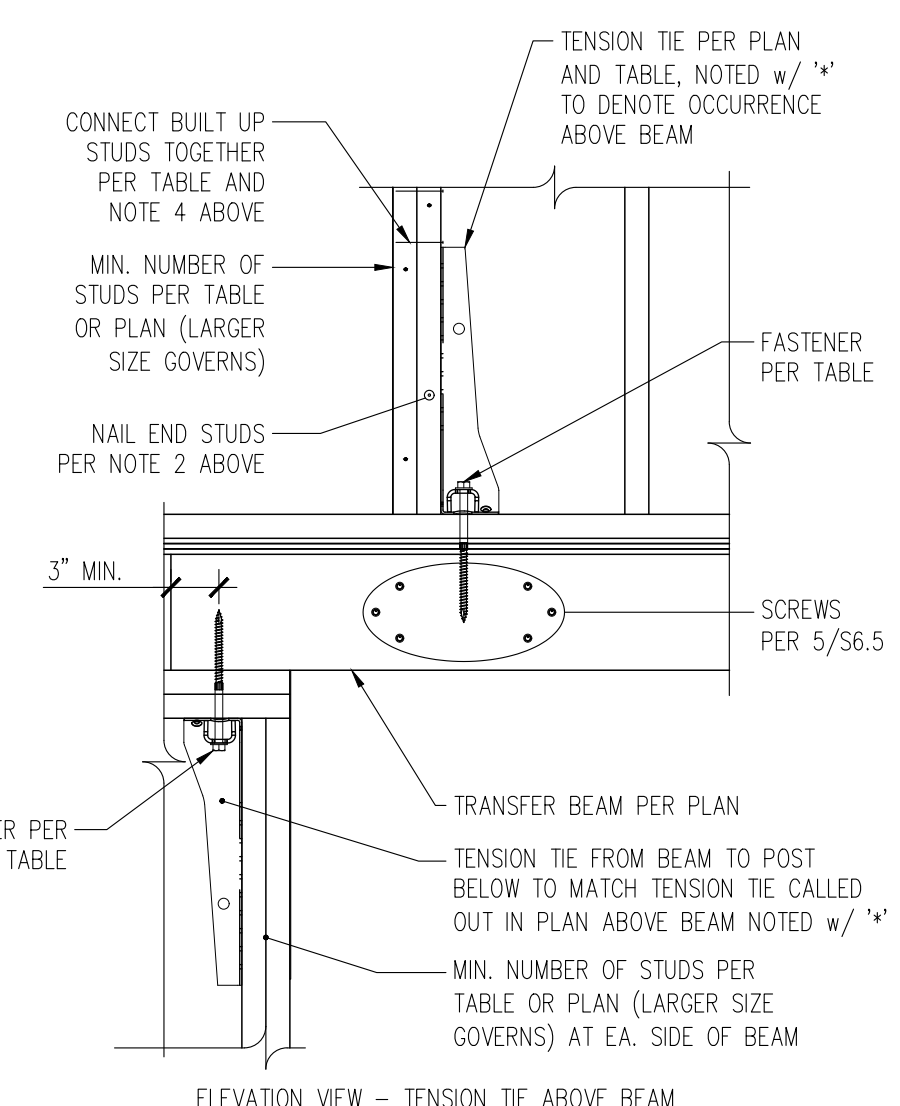


SECTION VIEW



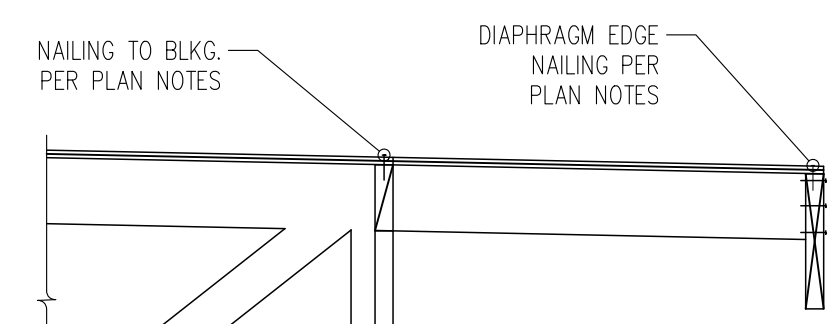
ELEVATION VIEW

4 HOLD-DOWN DETAIL AND SCHEDULE  
S6.6 1" = 1'-0"

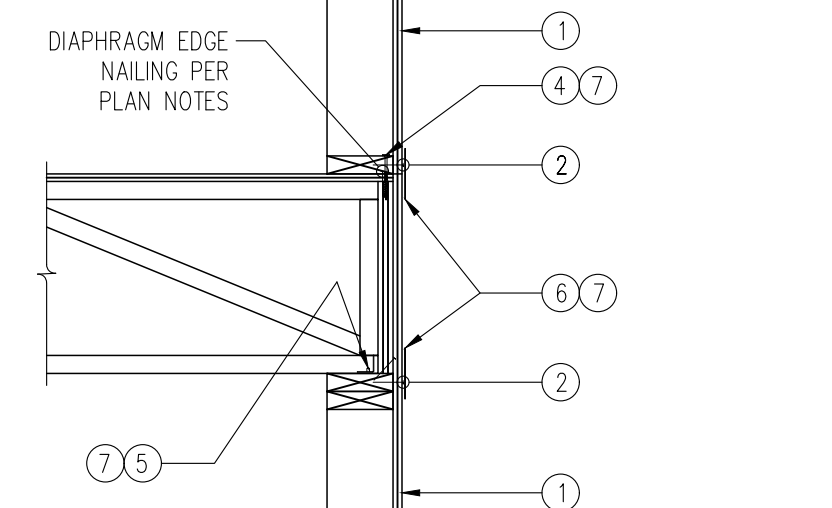


SHEARWALL PANEL TYPE	① SHEATHING THICKNESS	② 0.148" x 2 1/2" PANEL NAILING	③ STUD/BLKG. AT ABUTTING PANEL EDGES & SILL PLATE THICKNESS	⑦ CONN. OF BLKG. OR FRAMING TO TOP PLATE, AND SOLE PLATE TO SILL PLATE			⑧ ANCHOR BOLTS TO CONC.	⑨ ASD CAPACITY, PLF
				④ 1/4" x 3 1/2" SDS SCREWS	⑤ A35 CLIPS	⑥ LTP4 PLATES		
SW-6	1/2"	6" oc	2x	15" oc	25" oc	24" oc	48" oc 48" oc	310
SW-4	1/2"	4" oc	3x	10" oc	16" oc	16" oc	38" oc 48" oc	460
SW-3	1/2"	3" oc	3x	8" oc	13" oc	12" oc	29" oc 40" oc	600
SW-2	1/2"	2" oc	3x	6" oc	10" oc	9" oc	23" oc 31" oc	770
SW-44	1/2"	4" oc EA. SIDE	3x	5" oc	8" oc	8" oc	19" oc 26" oc	920
SW-33	1/2"	3" oc EA. SIDE	3x	4" oc	6" oc	6" oc	14" oc 20" oc	1200
SW-22	1/2"	2" oc EA. SIDE	3x	3" oc	5" oc	4" oc	11" oc 15" oc	1540

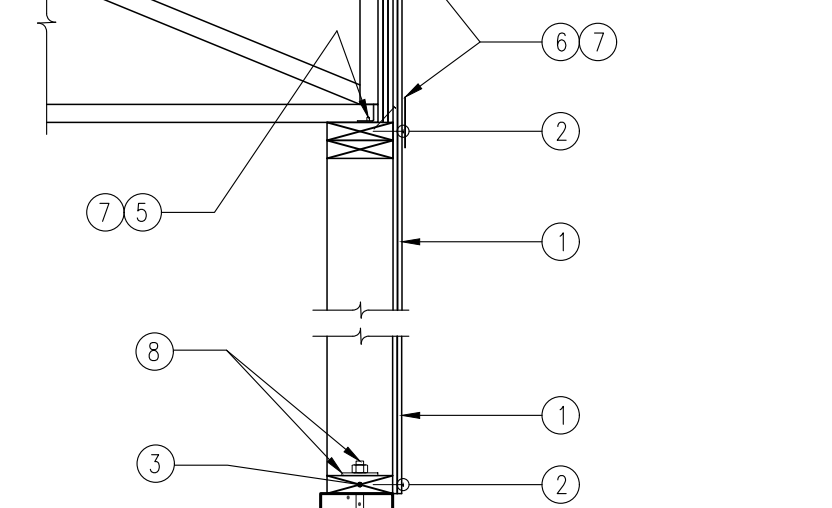
- SHEATHING SHALL CONSIST OF 1/2" PLYWOOD AND HAVE A MINIMUM SPAN RATING OF 2/8" AT INTERIOR SHEARWALLS ONLY. 1/8" OSB MAY BE USED.
- PANEL NAILING APPLIES TO ALL SHEATHING PANEL EDGES. INSTALL BLOCKING AT ALL UNFRAMED PANEL EDGES. ENSURE SHEATHING IS NAILED TO ALL INTERMEDIATE STUDS/BLOCKING WITH PANEL NAILS AT 12" oc.
- DOUBLE 2x MEMBERS MAY BE SUBSTITUTED FOR 3x MEMBERS AT WALLS WITH ONLY ONE LAYER OF SHEATHING. 2x MEMBERS SHALL BE NAILED TOGETHER WITH 8d FACE: @ 4" oc FOR SW-6, @ 3" oc FOR SW-4, @ 2" oc FOR SW-3, AND (2) @ 3" oc FOR SW-2 (116#/NAIL).
- ROWS OF NAILS AND SDS SCREWS SHALL BE OFFSET AT LEAST 1/2" AND STAGGERED. MINIMUM EDGE DISTANCE FOR NAILS AND SDS SCREWS INTO EDGE OF MEMBERS SHALL BE 3/8" (400#/SCREW).
- A35 CLIPS SHALL BE INSTALLED w/ (12)0.131 x 1 1/2" NAILS (650#/CLIP).
- LTP4 LATERAL TIE PLATES MAY BE INSTALLED OVER SHEATHING w/ (12)0.131 x 2 1/2" NAILS (625#/CLIP).
- CONTRACTOR SHALL USE A35 CLIPS TO CONNECT ROOF TRUSS TO DOUBLE TOP PLATE. SDS SCREWS OR LTP4 CLIPS TO CONNECT SOLE PLATE TO FLOOR TRUSS RIM BOARD. A35 OR LTP4 CLIPS TO CONNECT FLOOR TRUSS TIM BOARD TO DOUBLE TOP PLATE.
- PLATE WASHERS IN 2x4 STUD WALLS AND ALL SINGLE SIDED SHEAR WALLS SHALL BE 3"x3"x0.229". DOUBLE SIDED 2x6 SHEAR WALLS SHALL HAVE 4 1/2"x3"x0.229" PLATE WASHERS. THE EDGE OF PLATE WASHERS SHALL BE LOCATED WITHIN 1/2" OF THE EDGE OF BOTTOM PLATE ON THE SIDE WITH SHEATHING.
- CAST ANCHORS A MINIMUM OF 7" INTO CONCRETE. INSTALL ADDITIONAL ANCHOR BOLTS AT EACH SIDE OF PLATE WASHERS AND PENETRATIONS EXCEEDING THE "NO REINFORCING" HOLE SIZE PER 2/56.1.



SHEARWALL SECTION AT PERPENDICULAR FRAMING

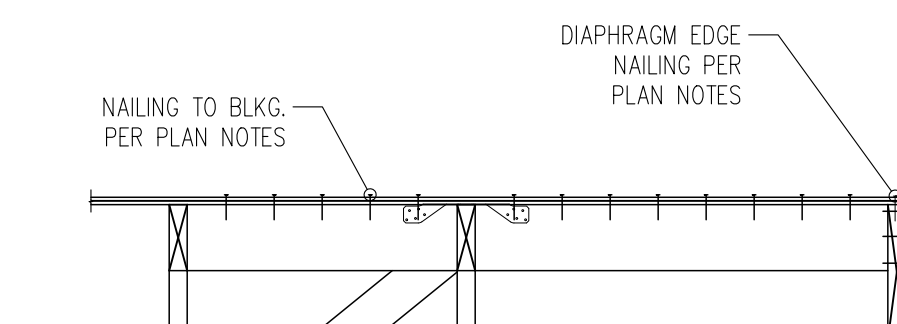


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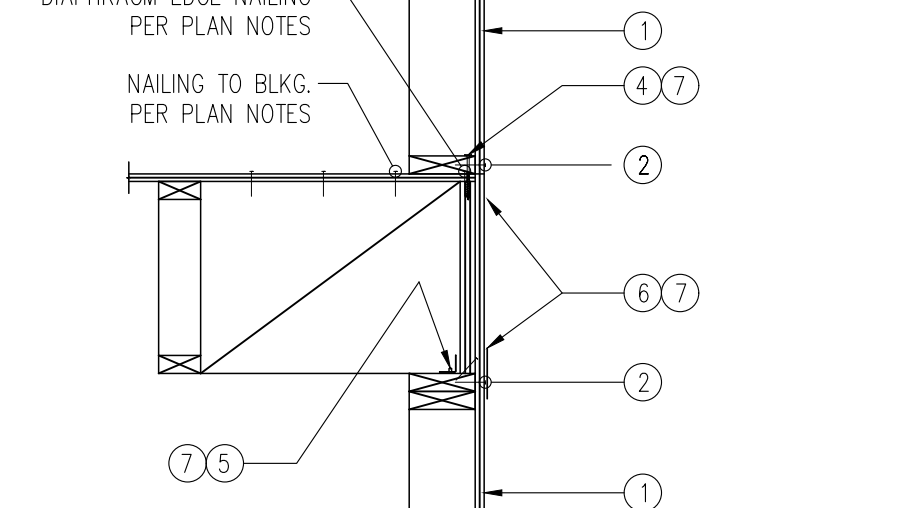


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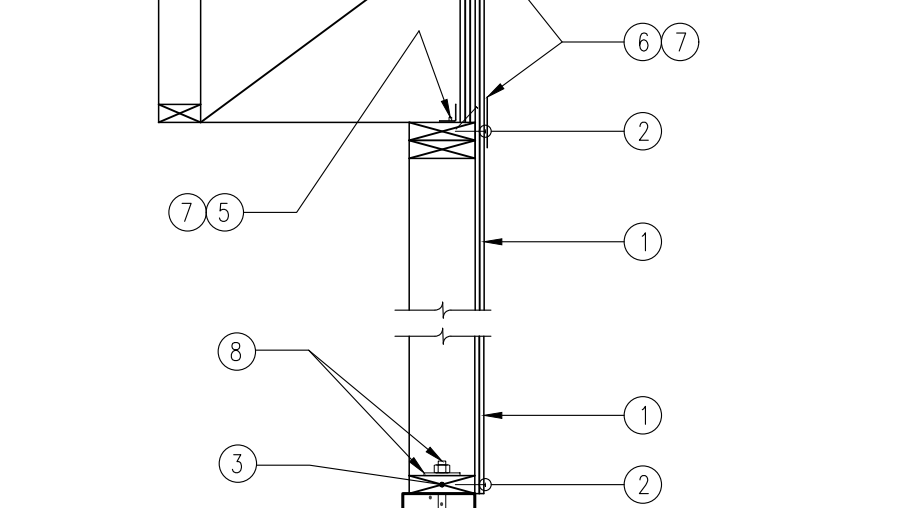
1 SHEARWALL SECTION AND SCHEDULE  
S6.6 1" = 1'-0"



SHEARWALL SECTION AT PARALLEL FRAMING

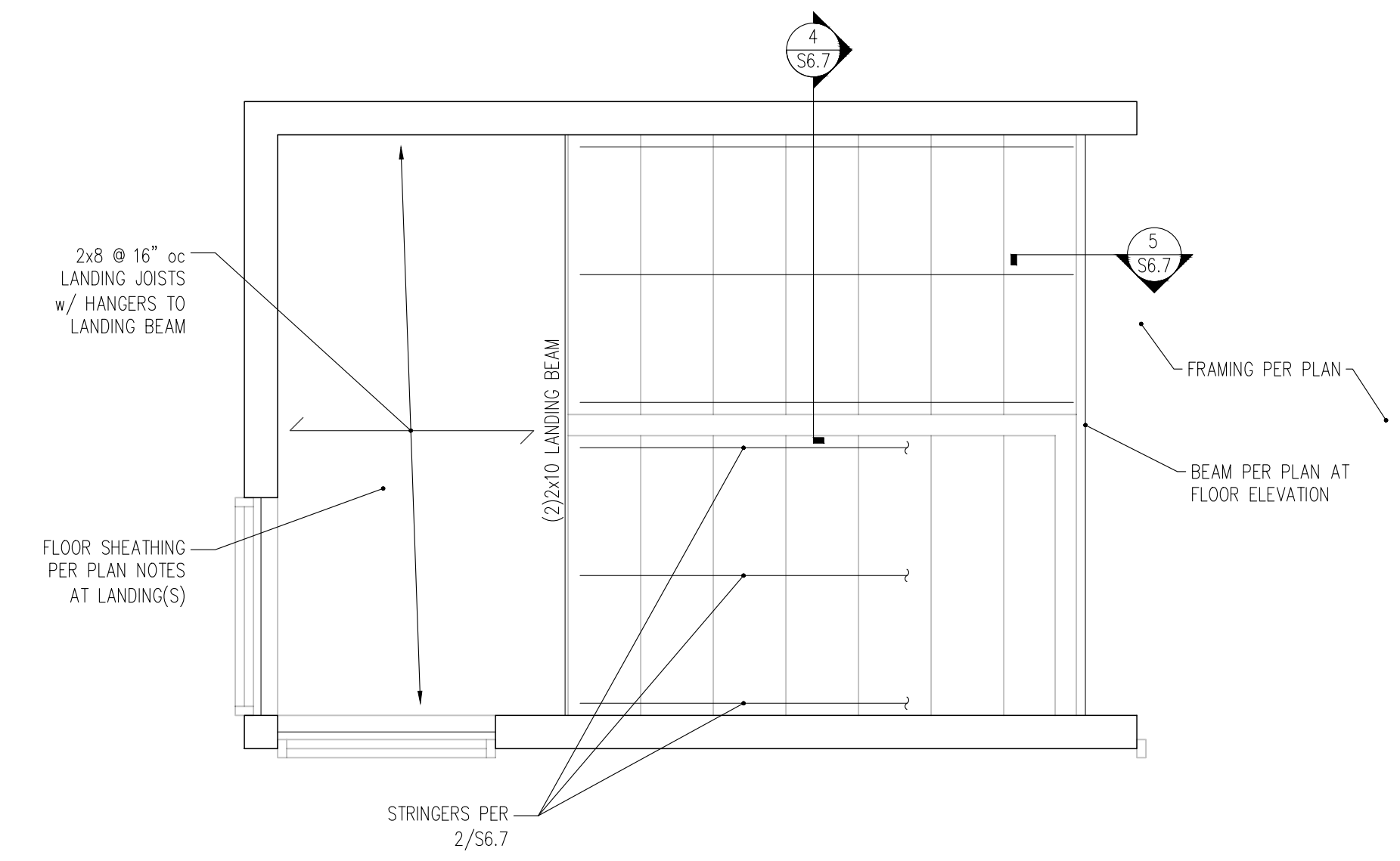


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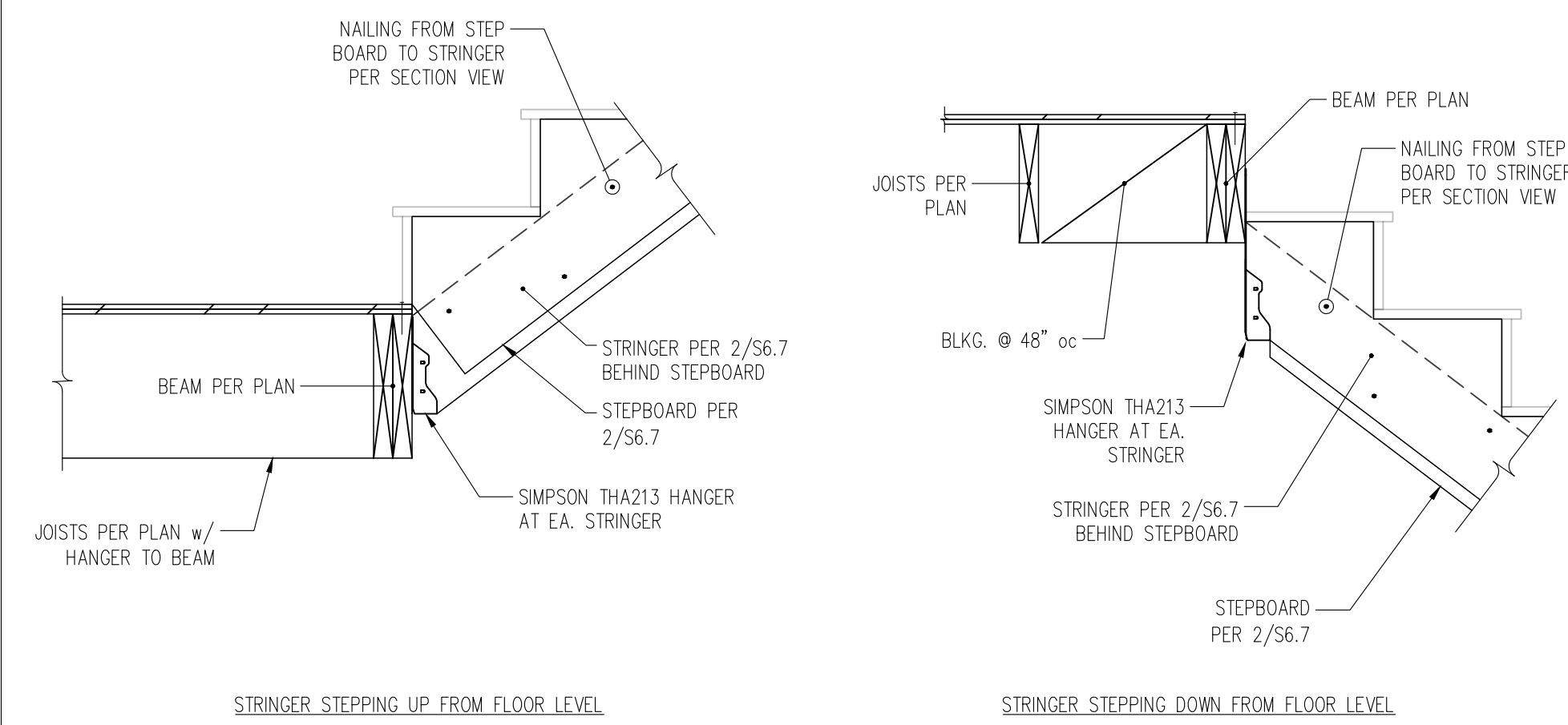


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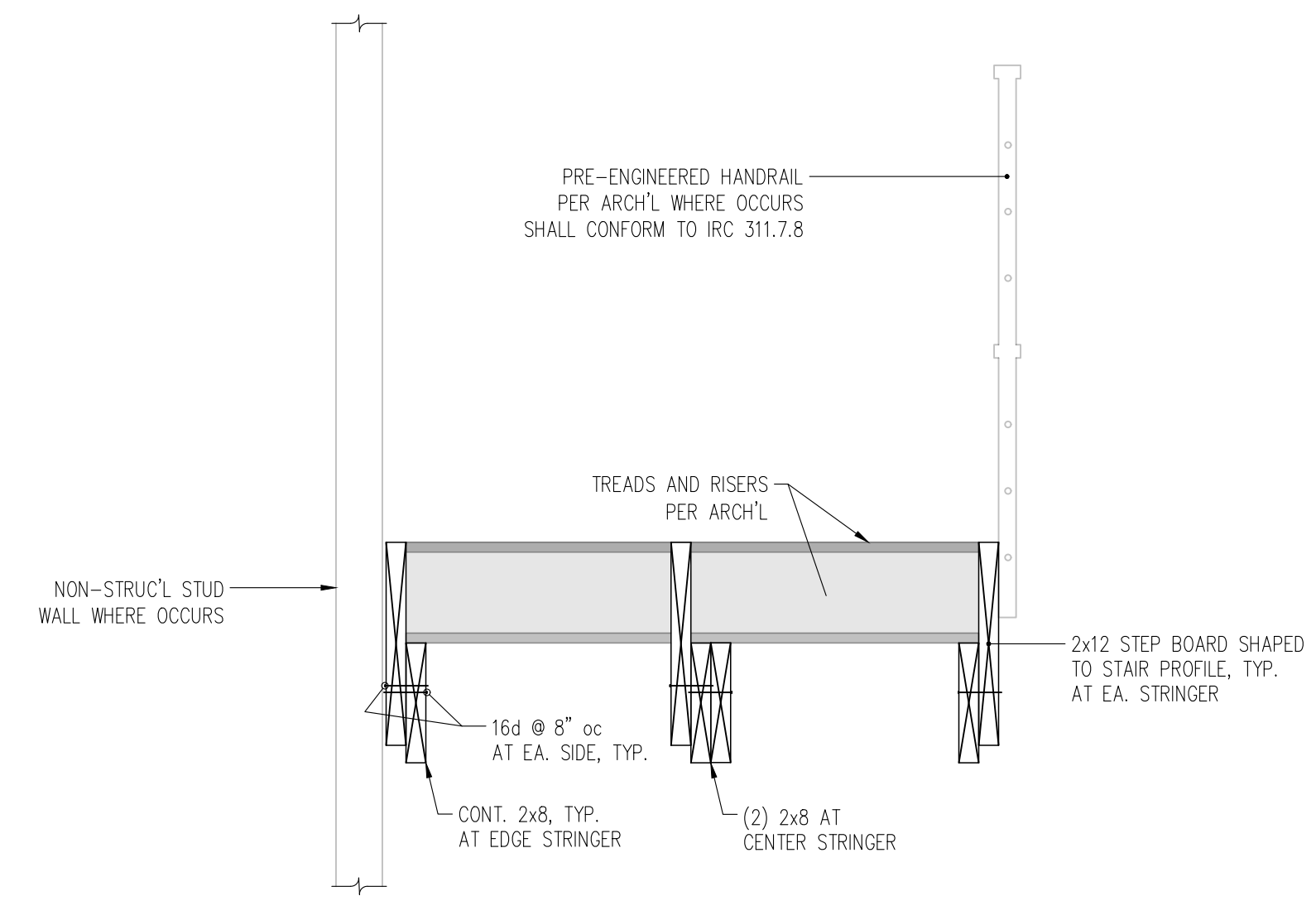
1 SHEARWALL SECTION AND SCHEDULE  
S6.6 1" = 1'-0"



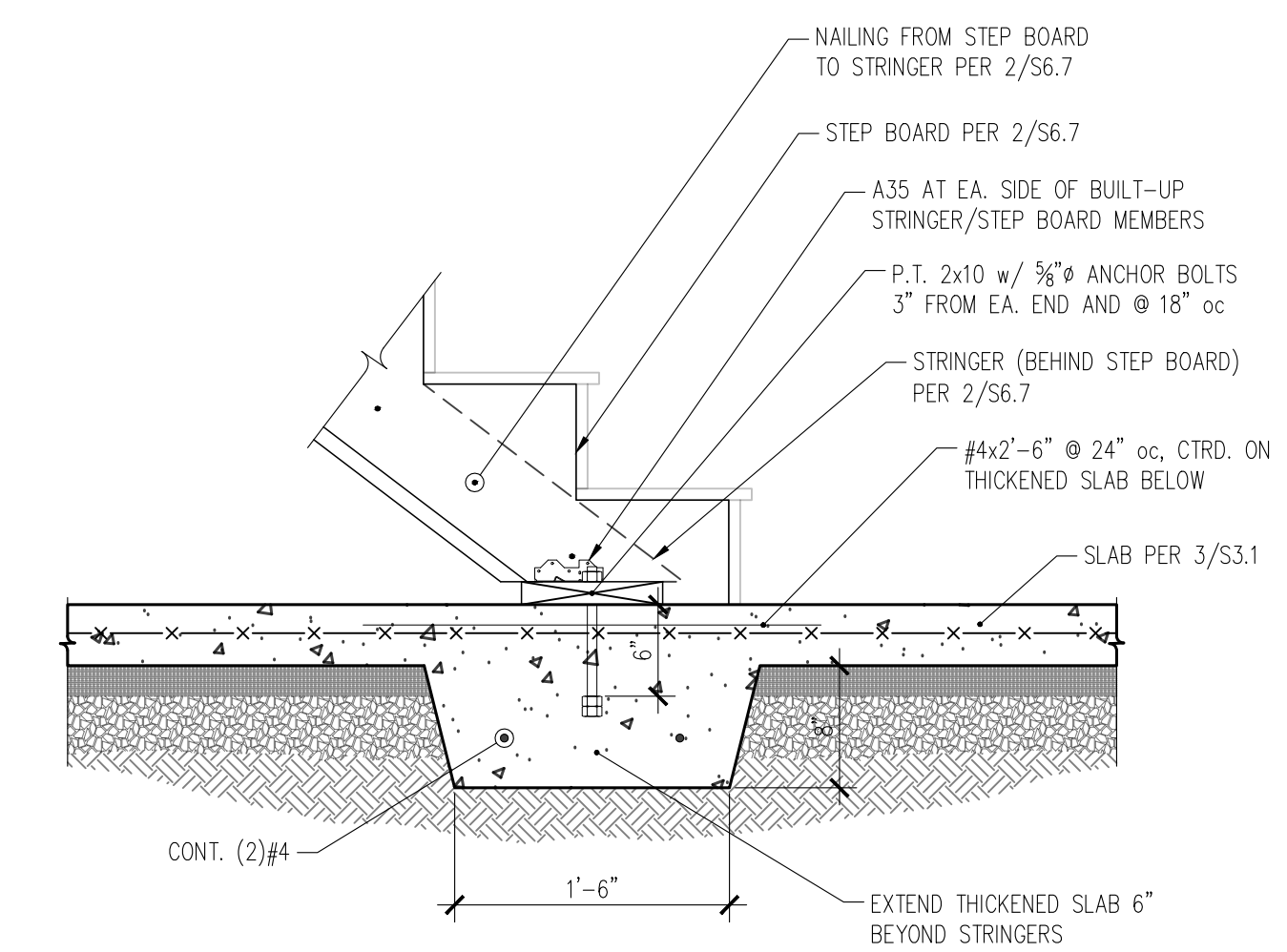
3 TYPICAL STAIR FRAMING/LANDING PLAN VIEW  
S6.7 1" = 1'-0"



5 SECTION THROUGH ROOF BREAK AT INTERIOR WALL  
S6.7 1" = 1'-0"



2 SECTION THROUGH STAIR FRAMING  
S6.7 1" = 1'-0"



1 SECTION THROUGH THICKENED SLAB-ON-GRADE AT STAIR STRINGERS  
S6.7 1" = 1'-0"

CONTENTS

Typical Stair Framing Details

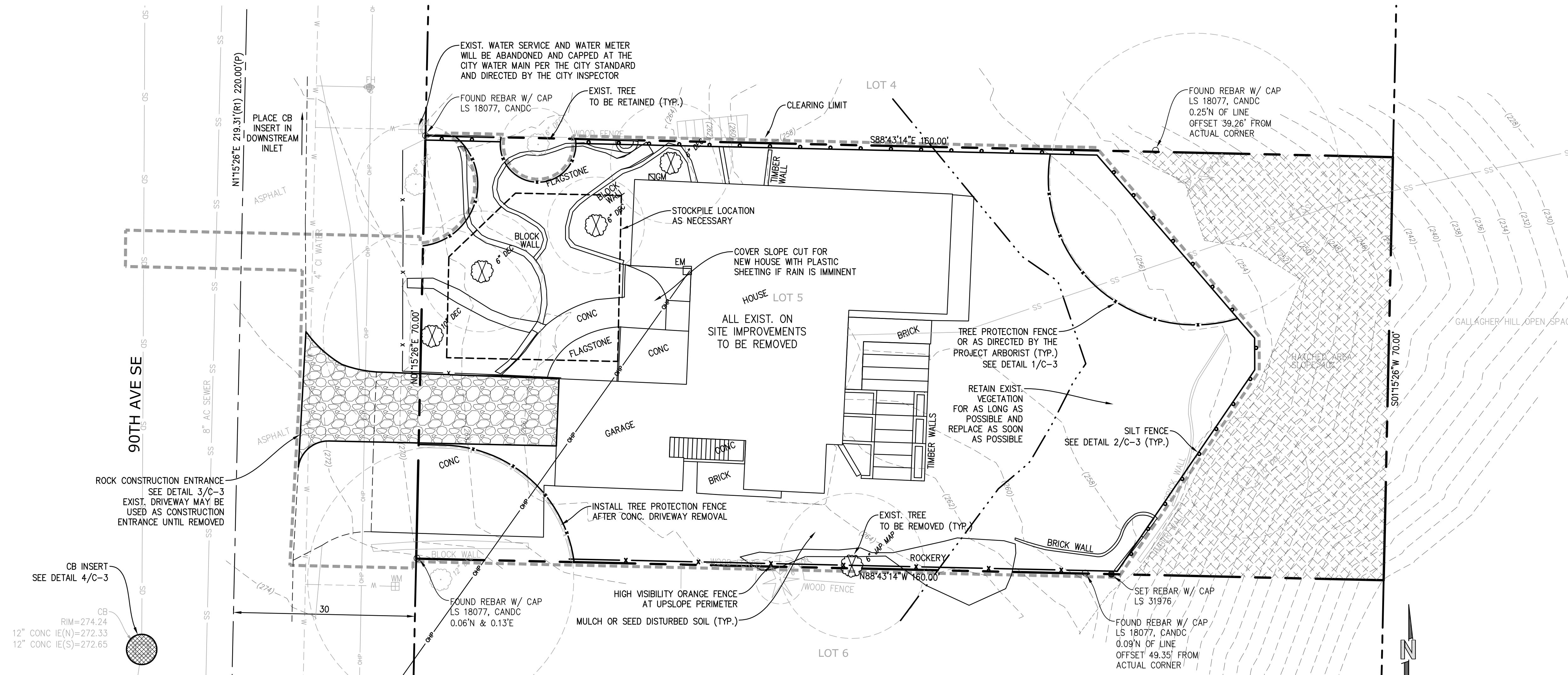
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DATE

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S6.7



**BASIS OF BEARINGS**

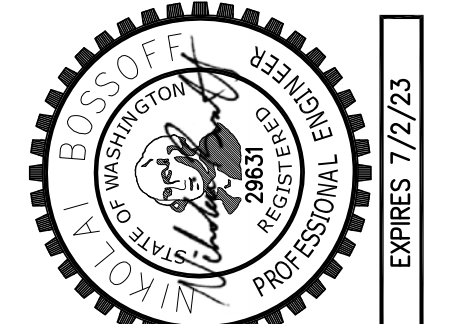
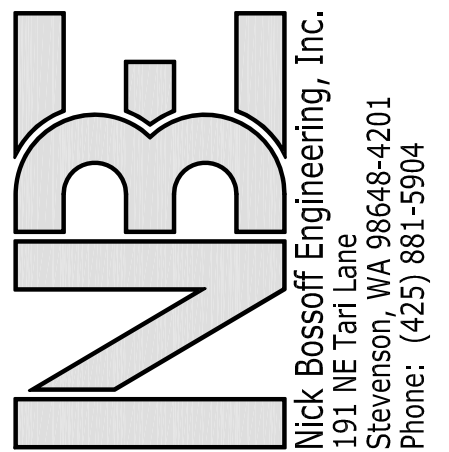
BEARINGS AND COORDINATES USED FOR THIS SURVEY ARE BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD83) WASHINGTON NORTH ZONE AND WERE ESTABLISHED USING RTK GPS WITH SMARTNET REFERENCE NETWORK.

**LEGAL DESCRIPTION**

LOT 5, BLOCK 4 OF MADRONA CREST ADDITION ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 42 OF PLATS, PAGES 12-14, RECORDS OF KING COUNTY WASHINGTON. SITUATE IN COUNTY OF KING, STATE OF WASHINGTON.

**VERTICAL DATUM**

ELEVATIONS SHOWN ON THIS DRAWING ARE BASE ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND WERE ESTABLISHED USING RTK GPS.



NO.	DATE	REVISION
1	06/11/22	PERMIT SUBMITTAL
N. BOSSOFF, P.E. PROJECT MANAGER NB DESIGNED: TKB DRAWN: GUDI-2201 JOB NUMBER: GUDI-2201 FILE NAME: GUDI-2201.pln.dwg		

WASHINGTON

MITHILA  
3632 90TH AVE SE

MERCER ISLAND

TITLE:  
T.E.S.C.  
PLAN

SHEET:  
C-1

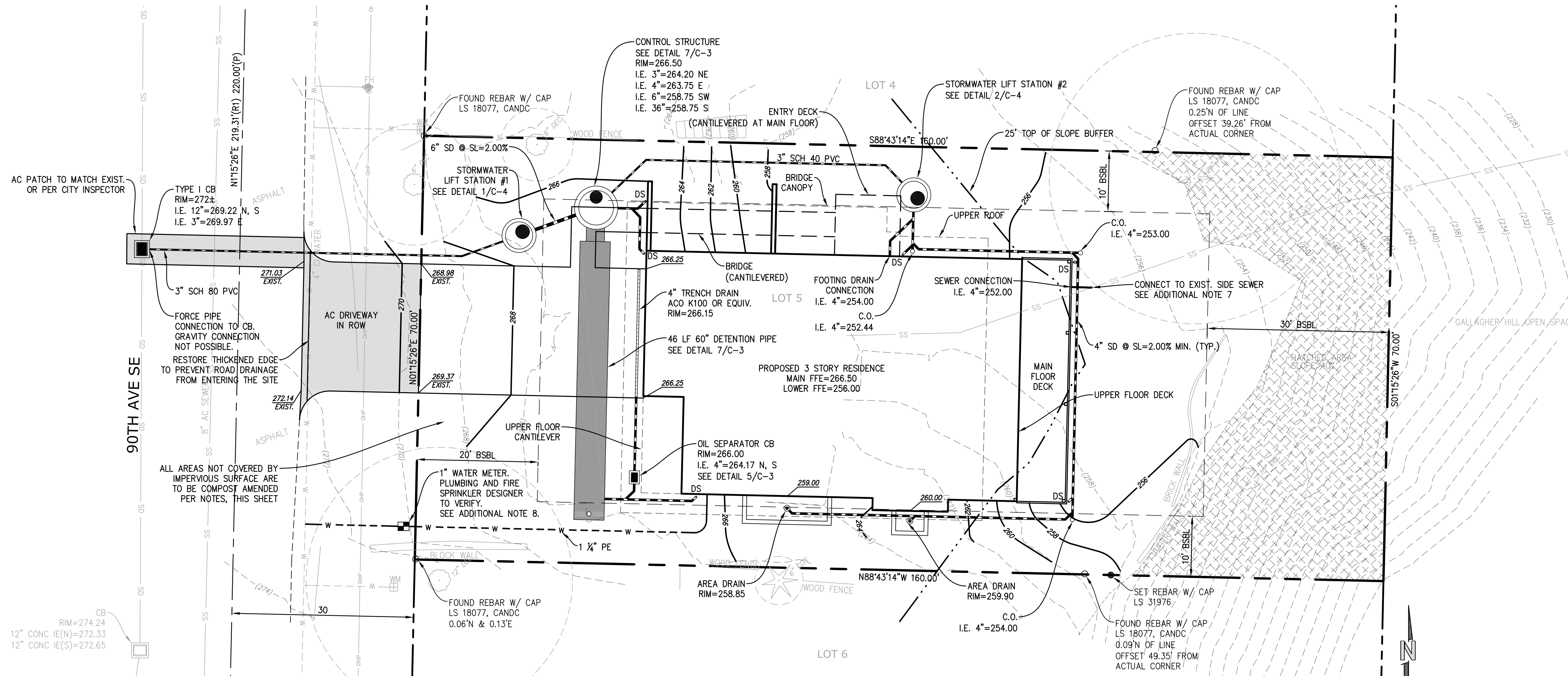
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BEFORE YOU DIG  
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**EROSION AND SEDIMENT CONTROL NOTES**

- APPROVAL OF THIS EROSION AND SEDIMENT CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
- THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
- THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY A CONTINUOUS LENGTH OF SURVEY TAPE (OR FENCING, IF REQUIRED) PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE APPLICANT/ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
- THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
- THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.).
- THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES DURING THE WET SEASON (OCT. 1 TO APRIL 30) AND OF MONTHLY REVIEWS DURING THE DRY SEASON (MAY 1 TO SEPT. 30).
- ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
- ANY AREA NEEDING ESC MEASURES NOT REQUIRING IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN FIFTEEN (15) DAYS.
- THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN FORTY-EIGHT (48) HOURS FOLLOWING A STORM EVENT.
- AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- STABILIZED CONSTRUCTION ENTRANCES AND ROADS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- ANY PERMANENT FLOW CONTROL FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY MUST BE GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEET ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY.
- WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 2 TO 3 INCHES.
- PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON. A SKETCH MAP OF THOSE AREAS TO BE SEEDED AND THOSE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE DOES INSPECTOR. THE DOES INSPECTOR CAN REQUIRE SEEDING OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATERS, ADJACENT PROPERTIES, OR DRAINAGE FACILITIES.

**POLLUTION PREVENTION AND SPILL CONTROL**

- STORAGE AND HANDLING OF LIQUIDS**
- MINIMIZE AMOUNT OF LIQUIDS STORED ON SITE.
  - STORE AND CONTAIN LIQUID MATERIALS IN SUCH A MANNER THAT IF A VESSEL IS RUPTURED OR LEAKS, THE CONTENTS WILL NOT DISCHARGE, FLOW, OR BE WASHED INTO THE STORM DRAINAGE SYSTEM, SURFACE WATERS, OR GROUNDWATER. TYPICALLY THIS MEANS INSTALLING SECONDARY CONTAINMENT, SUCH AS A LINED EXCAVATION, LARGER CONTAINER, OR USING A DOUBLE-WALLED TANK OR SIMILAR COMMERCIALY AVAILABLE CONTAINMENT FACILITY.
  - PLACE TIGHT-FITTING LIDS ON ALL CONTAINERS.
  - ENCLOSE OR COVER THE CONTAINERS WHERE THEY ARE STORED TO PROTECT FROM RAIN. THE LOCAL FIRE DISTRICT MUST BE CONSULTED FOR LIMITATIONS ON CLEARANCE OF ROOF COVERS OVER CONTAINERS USED TO STORE FLAMMABLE MATERIALS.
  - RAISE THE CONTAINERS OFF THE GROUND BY USING A SPILL CONTAINMENT PALLET OR SIMILAR METHOD THAT HAS PROVISIONS FOR SPILL CONTROL.
  - PLACE DRIP PANS OR ABSORBENT MATERIALS BENEATH ALL MOUNTED CONTAINER TAPS, AND AT ALL POTENTIAL DRIP AND SPILL LOCATIONS DURING FILLING AND UNLOADING OF CONTAINERS. ANY COLLECTED LIQUIDS OR SOILED ABSORBENT MATERIALS MUST BE REUSED, RECYCLED, OR PROPERLY DISPOSED OF.
  - STORE AND MAINTAIN ABSORBENT PADS OR APPROPRIATE SPILL CLEANUP MATERIALS NEAR THE CONTAINER STORAGE AREA, IN A LOCATION KNOWN TO ALL EMPLOYEES ARE FAMILIAR WITH THE SITE'S SPILL PLAN AND/OR PROPER SPILL CLEANUP PROCEDURES.
  - CHECK CONTAINERS (AND ANY CONTAINMENT SUMPS) DAILY FOR LEAKS AND SPILLS. REPLACE CONTAINERS THAT ARE LEAKING, CORRODED, OR OTHERWISE DETERIORATING. IF THE LIQUID CHEMICALS ARE CORROSIVE, CONTAINERS MADE OF COMPATIBLE MATERIALS MUST BE USED INSTEAD OF METAL DRUMS. NEW OR SECONDARY CONTAINERS MUST BE LABELED WITH THE PRODUCT NAME AND HAZARDS.
  - PLACE DRIP PANS OR ABSORBENT MATERIALS BENEATH A CONTAINER THAT IS FOUND TO BE LEAKING. REMOVE THE DAMAGED CONTAINER AS SOON AS POSSIBLE. MOP UP THE SPILLED LIQUID WITH ABSORBENT PADS OR RAGS. ANY COLLECTED LIQUIDS OR SOILED ABSORBENT MATERIALS MUST BE REUSED, RECYCLED, OR PROPERLY DISPOSED OF.
- FUELING**
- LOCATE THE FUELING OPERATION TO ENSURE LEAKS OR SPILLS WILL NOT DISCHARGE, FLOW, OR BE WASHED INTO THE STORM DRAINAGE SYSTEM, SURFACE WATER, OR GROUNDWATER.
  - USE DRIP PANS OR ABSORBENT PADS TO CAPTURE DRIPS OR SPILLS DURING FUELING OPERATIONS.
  - IF FUELING IS DONE DURING EVENING HOURS, LIGHTING MUST BE PROVIDED.
  - STORE AND MAINTAIN APPROPRIATE SPILL CLEANUP MATERIALS IN THE MOBILE FUELING VEHICLE. ENSURE THAT EMPLOYEES ARE FAMILIAR WITH PROPER SPILL CONTROL AND CLEANUP PROCEDURES.
  - IMMEDIATELY MOP UP ANY SPILLED FUEL WITH ABSORBENT PADS OR RAGS. ANY COLLECTED LIQUIDS OR SOILED ABSORBENT MATERIALS MUST BE REUSED, RECYCLED, OR PROPERLY DISPOSED OF.
- CONCRETE SAW CUTTING, SLURRY, AND WASHWATER DISPOSAL**
- SLURRY FROM SAW CUTTING THE SIDEWALK SHALL BE VACUUMED SO THAT IT DOES NOT ENTER NEARBY STORM DRAINS.
  - CONCRETE TRUCK CHUTES, PUMPS, AND INTERNALS SHALL BE WASHED OUT ONLY INTO FORMED AREAS AWAITING INSTALLATION OF CONCRETE.
  - UNUSED CONCRETE REMAINING IN THE TRUCK AND PUMP SHALL BE RETURNED TO THE ORIGINATING BATCH PLANT FOR RECYCLING.
  - HAND TOOLS INCLUDING, BUT NOT LIMITED, SCREEDS, SHOVELS, RAKES, FLOATS, AND TROWELS SHALL BE WASHED OFF ONLY INTO FORMED AREAS AWAITING INSTALLATION OF CONCRETE OR IMPERMEABLE ASPHALT.
  - EQUIPMENT THAT CANNOT BE EASILY MOVED, SUCH AS CONCRETE PAVERS, SHALL ONLY BE WASHED IN AREAS THAT DO NOT DIRECTLY DRAIN TO NATURAL OR CONSTRUCTED STORMWATER CONVEYANCES.
  - WASHDOWN FROM AREAS SUCH AS CONCRETE AGGREGATE DRIVEWAY SHALL NOT DRAIN DIRECTLY TO NATURAL OR CONSTRUCTED STORMWATER CONVEYANCES.
  - WHEN NO FORMED AREAS ARE AVAILABLE, WASHWATER AND LEFTOVER PRODUCT SHALL BE CONTAINED IN A LINED CONTAINER. CONTAINED CONCRETE SHALL BE DISPOSED OF IN A MANNER THAT DOES NOT VIOLATE GROUNDWATER OR SURFACE WATER QUALITY STANDARDS.
  - CONTAINERS SHALL BE CHECKED FOR HOLES IN THE LINER DAILY DURING CONCRETE POURS AND REPLACED THE SAME DAY.

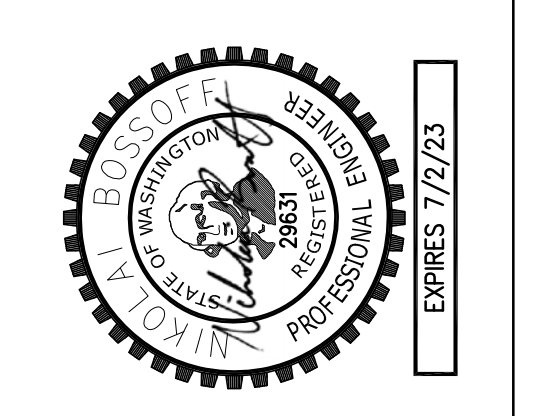
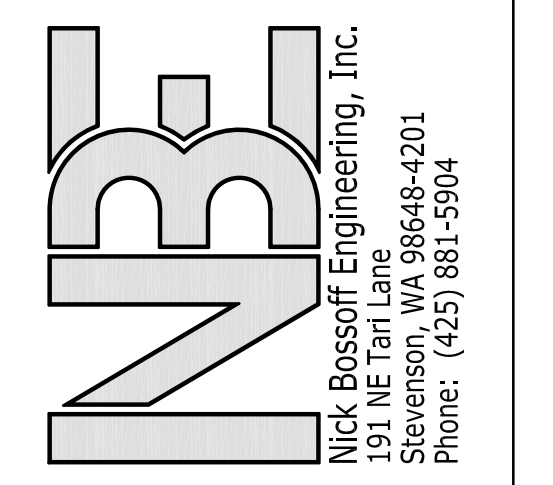
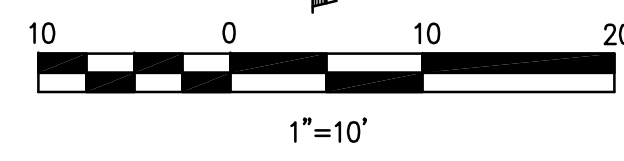


**POST-CONSTRUCTION SOIL QUALITY AND DEPTH NOTES**

- A. SOIL RETENTION. RETAIN, IN AN UNDISTURBED STATE, THE DUFF LAYER AND NATIVE TOPSOIL TO THE MAXIMUM EXTENT PRACTICABLE. IN ANY AREAS REQUIRING GRADING REMOVE AND STOCKPILE THE DUFF LAYER AND TOPSOIL ON SITE IN A DESIGNATED, CONTROLLED AREA, NOT ADJACENT TO PUBLIC RESOURCES AND CRITICAL AREAS, TO BE REAPPLIED TO OTHER PORTIONS OF THE SITE WHERE FEASIBLE.
- B. SOIL QUALITY. ALL AREAS SUBJECT TO CLEARING AND GRADING THAT HAVE NOT BEEN COVERED BY IMPERVIOUS SURFACE, INCORPORATED INTO A DRAINAGE FACILITY OR ENGINEERED AS STRUCTURAL FILL OR SLOPE SHALL, AT PROJECT COMPLETION, DEMONSTRATE THE FOLLOWING:
  - 1. A TOPSOIL LAYER WITH A MINIMUM ORGANIC MATTER CONTENT OF 10% DRY WEIGHT IN PLANTING BEDS, AND 5% ORGANIC MATTER CONTENT IN TURF AREAS, AND A PH FROM 6.0 TO 8.0 OR MATCHING THE PH OF THE UNDISTURBED SOIL. THE TOPSOIL LAYER SHALL HAVE A MINIMUM DEPTH OF EIGHT INCHES EXCEPT WHERE TREE ROOTS LIMIT THE DEPTH OF INCORPORATION OF AMENDMENTS NEEDED TO MEET THE CRITERIA. SUBSOILS BELOW THE TOPSOIL LAYER SHOULD BE SCARIFIED AT LEAST 4 INCHES WITH SOME INCORPORATION OF THE UPPER MATERIAL TO AVOID STRATIFIED LAYERS, WHERE FEASIBLE.
  - 2. MULCH PLANTING BEDS WITH 2 INCHES OF ORGANIC MATERIAL.
  - 3. USE COMPOST AND OTHER MATERIALS THAT MEET THESE ORGANIC CONTENT REQUIREMENTS:
    - A. THE ORGANIC CONTENT FOR "PRE-APPROVED" AMENDMENT RATES CAN BE MET ONLY USING COMPOST MEETING THE DEFINITION OF "COMPOSTED MATERIALS" IN WAC 173-350-220, WITH THE EXCEPTION THAT THE COMPOST MAY HAVE UP TO 35% BIOSOLIDS OR MANURE. THE COMPOST MUST ALSO HAVE AN ORGANIC MATTER CONTENT OF 40% TO 65%, AND A CARBON TO NITROGEN RATIO BELOW 25:1. THE CARBON TO NITROGEN RATIO MAY BE AS HIGH AS 35:1 FOR PLANTINGS COMPOSED ENTIRELY OF PLANTS NATIVE TO THE PUGET SOUND LOWLANDS REGION.
    - B. CALCULATED AMENDMENT RATES MAY BE MET THROUGH USE OF COMPOSTED MATERIAL MEETING (A.) ABOVE; OR OTHER ORGANIC MATERIALS AMENDED TO MEET THE CARBON TO NITROGEN RATIO REQUIREMENTS, AND NOT EXCEEDING THE CONTAMINANT LIMITS IDENTIFIED IN TABLE 220-B, TESTING PARAMETERS, IN WAC 173-350-220.
- C. IMPLEMENTATION OPTIONS: THE SOIL QUALITY DESIGN GUIDELINES LISTED ABOVE CAN BE MET BY USING ONE OF THE METHODS LISTED BELOW:
  - 1. LEAVE UNDISTURBED NATIVE VEGETATION AND SOIL AND PROTECT FROM COMPACTION DURING CONSTRUCTION.
  - 2. AMEND EXISTING SITE TOPSOIL OR SUBSOIL EITHER AT DEFAULT "PRE-APPROVED" RATES, OR AT CUSTOM CALCULATED RATES BASED ON TESTS OF THE SOIL AND AMENDMENT.
  - 3. STOCKPILE EXISTING TOPSOIL DURING GRADING AND REPLACE IT PRIOR TO PLANTING. STOCKPILED TOPSOIL MUST ALSO BE AMENDED IF NEEDED TO MEET THE ORGANIC MATTER OR DEPTH REQUIREMENTS, EITHER AT A DEFAULT "PRE-APPROVED" RATE OR AT A CUSTOM CALCULATED RATE.
  - 4. IMPORT TOPSOIL MIX OF SUFFICIENT ORGANIC CONTENT AND DEPTH TO MEET THE REQUIREMENTS. MORE THAN ONE METHOD MAY BE USED ON DIFFERENT PORTIONS OF THE SAME SITE. SOIL THAT ALREADY MEETS THE DEPTH AND ORGANIC MATTER QUALITY STANDARDS, AND IS NOT COMPACTED, DOES NOT NEED TO BE AMENDED.

**ADDITIONAL NOTES:**

- 1. ALL CONSTRUCTION MATERIALS AND PRACTICE SHALL CONFORM TO THE CITY OF MERCER ISLAND STANDARDS AND THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARDS. EXISTING UTILITIES AS SHOWN ARE FROM CITY RECORDS AND ARE APPROXIMATE. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO IDENTIFY, LOCATE AND PROTECT ABOVE AND BELOW GRADE UTILITIES. CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION IF A CONFLICT EXISTS BETWEEN EXISTING UTILITIES AND THE PROPOSED IMPROVEMENTS.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR EROSION AND SEDIMENTATION CONTROL AND SHALL MAINTAIN THE NECESSARY SAFEGUARDS AND MANAGE THE CONSTRUCTION SO AS TO PREVENT WATERBORNE SEDIMENTS FROM LEAVING THE SITE.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR.
- 4. ON-SITE PRIVATE STORM AND SEWER PIPE SHALL BE SOLVENT WELDED SCHEDULE 40 PVC OR PVC ASTM D3034 SDR35 UNLESS SHOWN OTHERWISE. PVC PIPE LAID AT A SLOPE IN EXCESS OF 20% SHALL BE SOLVENT WELDED SCHEDULE 40 PVC. STORM PIPE IN THE RIGHT-OF-WAY SHALL BE HIGH-DENSITY POLYETHYLENE DOUBLE-WALLED SMOOTH INTERIOR PIPE SUCH AS ADS N-12 OR EQUIVALENT.
- 5. FOOTING DRAINS SHALL BE INSTALLED AROUND THE BASE OF ALL FOUNDATION FOOTINGS THAT ENCLOSE A CRAWL SPACE, CELLAR, BASEMENT, GARAGE OR OTHER BUILDING SPACE. FOOTING DRAINS SHALL BE PERFORATED 4-INCH DIAMETER PVC CONFORMING TO D2729, PERFORATIONS DOWN. GRANULAR BACKFILL SHALL BE PLACED AROUND AND ABOVE THE DRAIN TO A DEPTH OF 2/3 OF THE WALL HEIGHT. FILTER FABRIC (MIRAFI 140N OR EQUIVALENT) SHALL BE PLACED BETWEEN THE GRANULAR BACKFILL AND NATIVE SOILS. TIE THE FOOTING DRAIN INTO THE STORM LINE AT A LOCATION WHERE THE FOOTING DRAIN ELEVATION IS AT LEAST 12-INCHES ABOVE THE STORM LINE.
- 6. EXISTING SIDE SEWER AND STORM DRAIN DEPTH AND LOCATION SHALL BE DETERMINED PRIOR TO ANY CONSTRUCTION, INCLUDING BUILDING CONSTRUCTION. REPORT CONFLICTS WITH PROPOSED CONSTRUCTION TO ENGINEER. NEW SIDE SEWER CONNECTION TO MAIN OR SEWER EJECTOR PUMP MAY BE NECESSARY FOR BASEMENT.
- 7. PROPOSED METER LOCATION, IF SHOWN, IS APPROXIMATE. CONTRACTOR TO COORDINATE EXACT LOCATION OF NEW SERVICE/METER/ SUPPLY LINE WITH CITY WATER DEPARTMENT DURING CONSTRUCTION.
- 8. EACH DOWNSPOUT SHALL CONNECT TO A RIGID NON-PERFORATED PIPE AT THE BUILDING PERIMETER. UNDER NO CIRCUMSTANCES SHALL DOWNSPOUTS CONNECT DIRECTLY TO THE PERFORATED FOOTING DRAIN.
- 9. USE SAND COLLARS FOR PVC PIPE CONNECTIONS TO MANHOLES.
- 10. VERTICAL BENDS ON THE STORM DRAINS MAY BE NECESSARY TO MAINTAIN MIN. 1.5' SOIL COVER OVER PIPE. MAX. PIPE BENDS TO BE 45'.
- 11. DOWNSPOUT LOCATIONS SHOWN ARE PRELIMINARY. REFER TO ARCHITECTURAL PLANS FOR FINAL DOWNSPOUT LOCATIONS.
- 12. AN UNDERSLAB DRAINAGE SYSTEM MAY BE NECESSARY DEPENDENT ON GEOTECHNICAL EVALUATION BY OTHERS.
- 13. WINDOW WELLS SHALL BE DESIGNED FOR PROPER DRAINAGE BY CONNECTING TO THE BUILDING'S FOUNDATION DRAINAGE SYSTEM REQUIRED PER SECTION R310.2.3.2 OF THE INTERNATIONAL RESIDENTIAL CODE. A DRAINAGE SYSTEM FOR WINDOW WELLS IS NOT REQUIRED WHERE THE FOUNDATION IS ON WELL-DRAINED SOIL OR SAND-GRAVEL MIXTURE SOILS IN ACCORDANCE WITH THE UNITED SOIL CLASSIFICATION SYSTEM, GROUP 1 SOILS, AS DETAILED IN TABLE R405.1 OF THE IRC.



NO.	REVISION
1	PERMIT SUBMITTAL
DATE	08/11/22
NO.	1
P. E.	N. BOSSOFF
PROJECT MANAGER	PROJECT MANAGER
DESIGNED	TKB
DRAWN	GUDI-2201
JOB NUMBER	GUDI-2201.pln.dwg
FILE NAME	

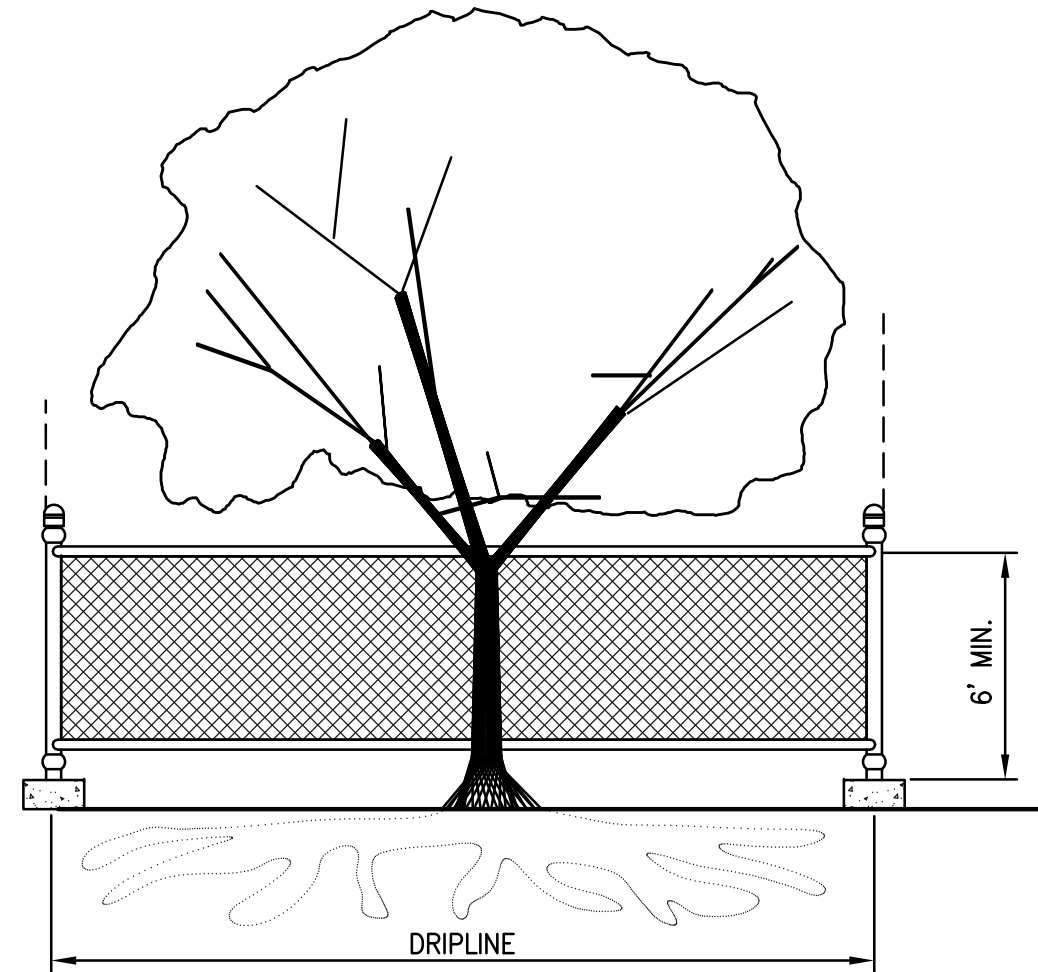
**WASHINGTON**

**MITHILA**  
**3632 90TH AVE SE**

**MERCER ISLAND**

TITLE:  
**DRAINAGE PLAN**

SHEET:  
**C-2**



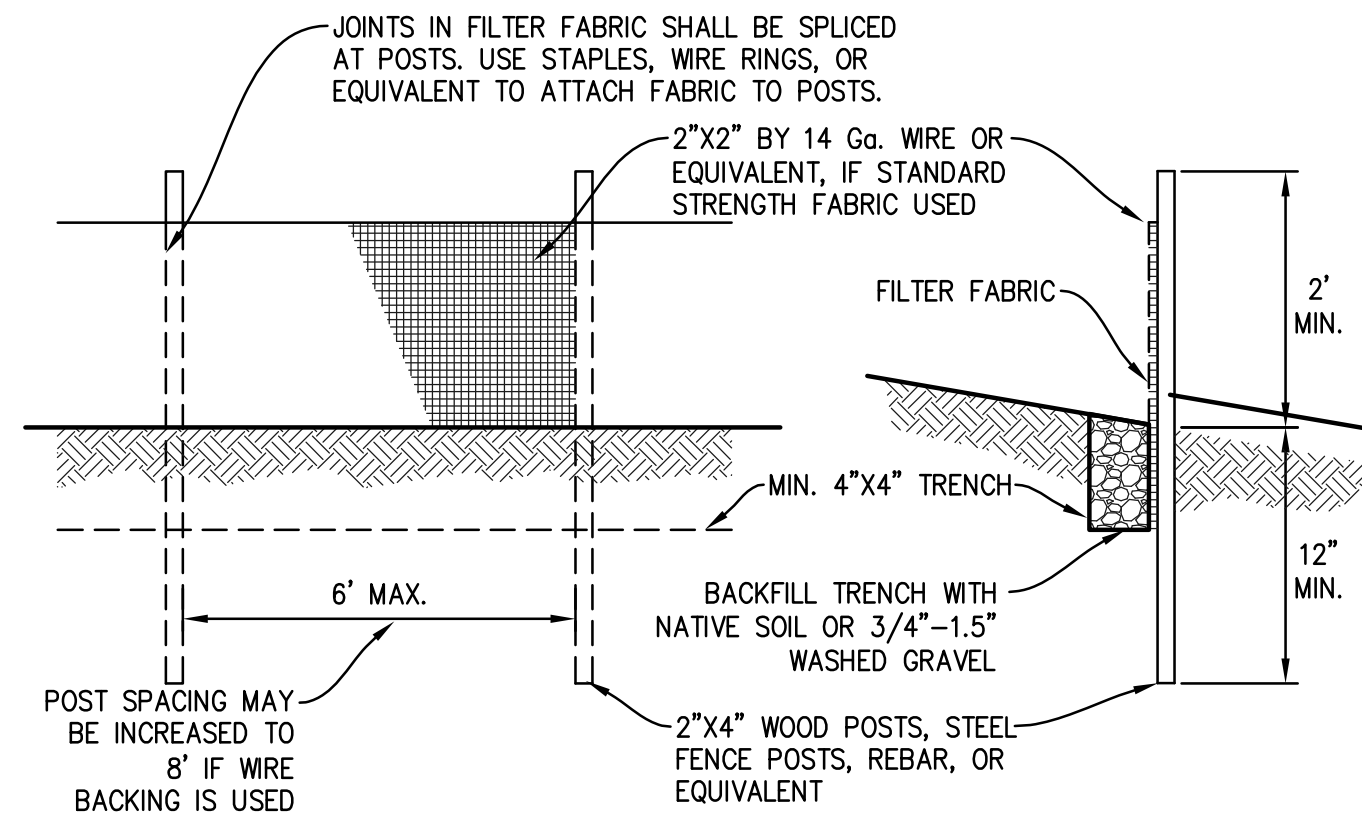
**TREE PROTECTION DURING CONSTRUCTION**

- 6-FT. HIGH TEMPORARY CHAIN LINK FENCE SHALL BE PLACED AT THE DRIPLINE OF THE TREE TO BE SAVED. FENCE SHALL COMPLETELY ENCIRCLE THE TREE(S). INSTALL FENCE POSTS USING PIER BLOCKS ONLY. AVOID DRIVING POSTS OR STAKES INTO MAJOR ROOTS.
- FOR ROOTS OVER 1-IN DIA. THAT ARE DAMAGED DURING CONSTRUCTION, MAKE A CLEAN, STRAIGHT CUT TO REMOVE THE DAMAGED PORTION. ALL EXPOSED ROOTS SHALL BE TEMPORARILY COVERED WITH DAMP BURLAP TO PREVENT DRYING, AND SHALL BE COVERED WITH SOIL AS SOON AS POSSIBLE.
- WORK WITHIN PROTECTION FENCE SHALL BE DONE MANUALLY. NO STOCKPILING OF MATERIALS, VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT OR MACHINERY SHALL BE ALLOWED WITHIN THE LIMIT OF THE FENCING.

**TREE PROTECTION**

SCALE: NTS

1



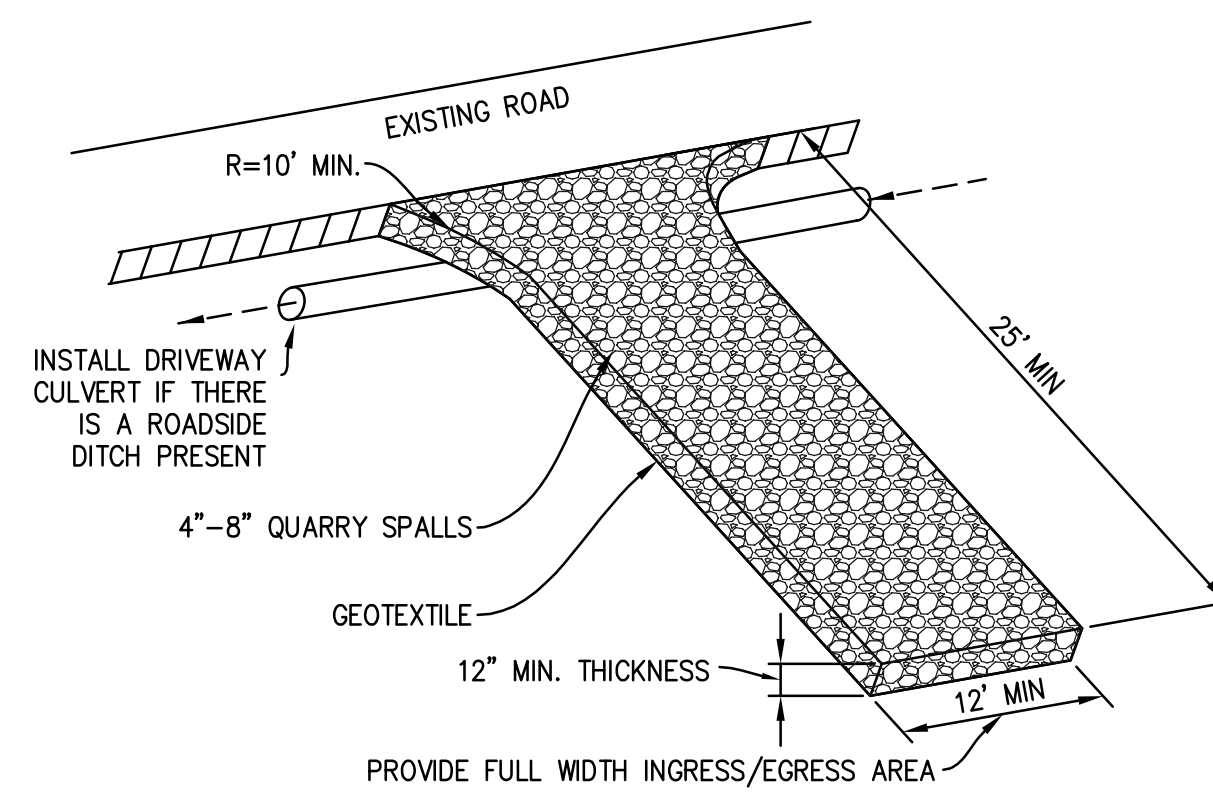
**MAINTENANCE STANDARDS**

- ANY DAMAGE SHALL BE REPAIRED IMMEDIATELY.
- IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT TRAP OR POND.
- IT IS IMPORTANT TO CHECK THE UPHILL SIDE OF THE FENCE FOR SIGN OF THE FENCE CLOGGING AND ACTING AS A BARRIER TO FLOW AND THEN CAUSING CHANNELIZATION OF FLOWS PARALLEL TO THE FENCE. IF THIS OCCURS, REPLACE THE FENCE AND/OR REMOVE THE TRAPPED SEDIMENT.
- SEDIMENT MUST BE REMOVED WHEN THE SEDIMENT IS 6" HIGH.
- IF THE FILTER FABRIC HAS DETERIORATED DUE TO ULTRAVIOLET BREAKDOWN, IT SHALL BE REPLACED.

**SILT FENCE**

SCALE: NTS

2



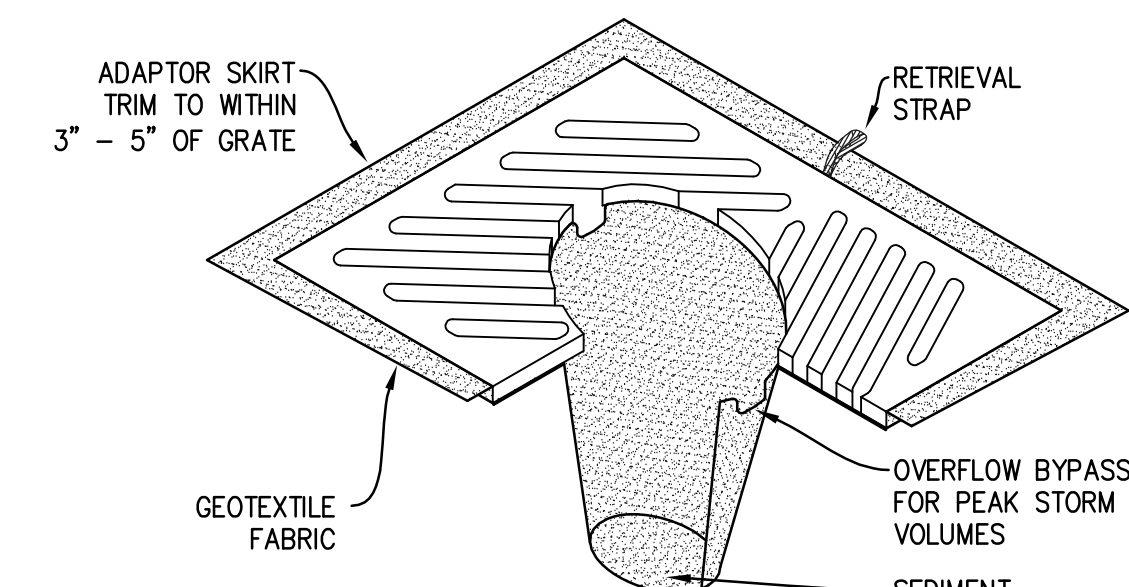
**MAINTENANCE STANDARDS**

- QUARRY SPALLS (OR HOG FUEL) SHALL BE ADDED IF THE PAD IS NO LONGER IN ACCORDANCE WITH THE SPECIFICATIONS.
- IF THE ENTRANCE IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT, THEN ALTERNATIVE MEASURES TO KEEP THE STREETS FREE OF SEDIMENT SHALL BE USED. THIS MAY INCLUDE STREET SWEEPING, AN INCREASE IN THE DIMENSIONS OF THE ENTRANCE, OR THE INSTALLATION OF A WHEEL WASH. IF WASHING IS USED, IT SHALL BE DONE ON AN AREA COVERED WITH CRUSHED ROCK, AND WASH WATER SHALL DRAIN TO A SEDIMENT TRAP OR POND.
- ANY SEDIMENT THAT IS TRACKED ONTO PAVEMENT SHALL BE REMOVED IMMEDIATELY BY SWEEPING. THE SEDIMENT COLLECTED BY SWEEPING SHALL BE REMOVED OR STABILIZED ON-SITE. THE PAVEMENT SHALL NOT BE CLEANED BY WASHING DOWN THE STREET, EXCEPT WHEN SWEEPING IS INEFFECTIVE AND THERE IS A THREAT TO PUBLIC SAFETY. IF IT IS NECESSARY TO WASH THE STREET, THE CONSTRUCTION OF A SMALL SUMP SHALL BE CONSIDERED. THE SEDIMENT WOULD THEN BE WASHED INTO THE SUMP.
- ANY ROCK SPALLS THAT ARE LOOSENED FROM THE PAD AND END UP ON THE ROADWAY SHALL BE REMOVED IMMEDIATELY.
- IF VEHICLES ARE ENTERING OR EXITING THE SITE AT POINTS OTHER THAN THE CONSTRUCTION ENTRANCE(S), FENCING (SECTION 5.4.1) SHALL BE INSTALLED TO CONTROL TRAFFIC.

**ROCK CONSTRUCTION ENTRANCE**

SCALE: NTS

3



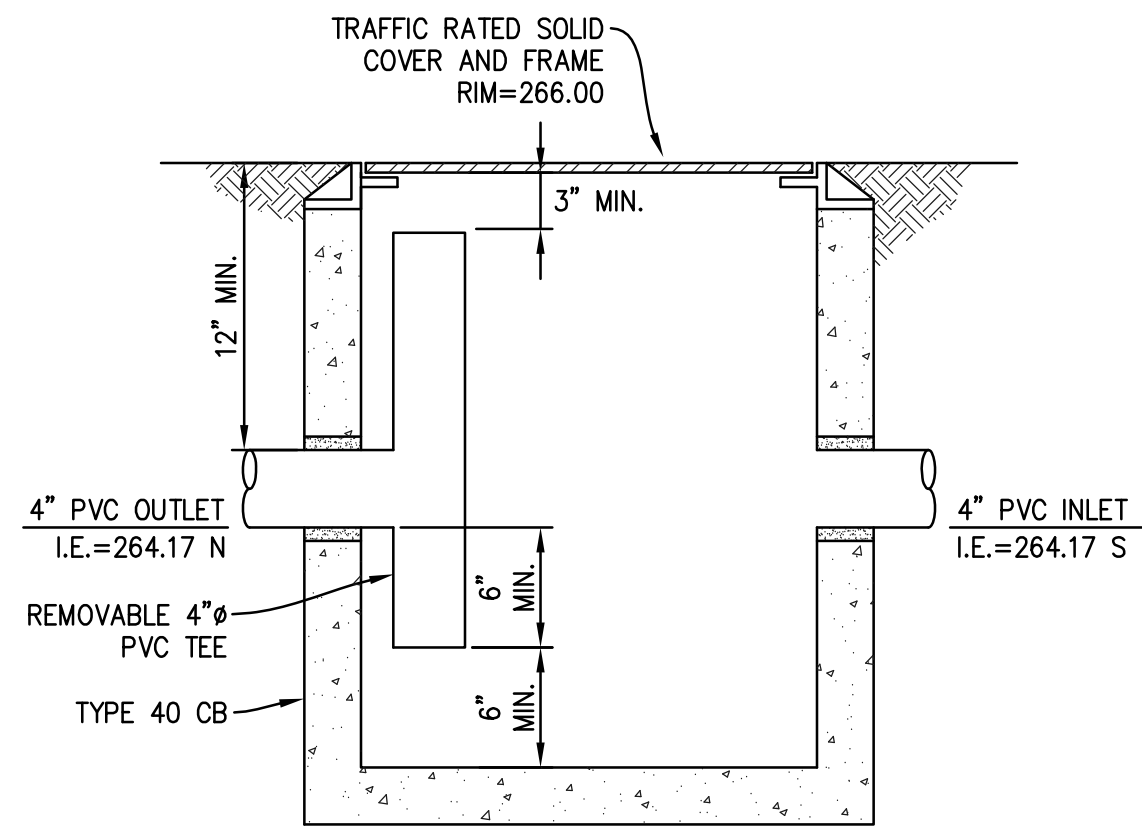
**NOTES**

- INSERT SHALL BE INSTALLED PRIOR TO CLEARING AND GRADING ACTIVITY, OR UPON PLACEMENT OF A NEW CATCH BASIN.
- SEDIMENT SHALL BE REMOVED FROM THE UNIT WHEN IT BECOMES HALF FULL.
- SEDIMENT REMOVAL SHALL BE ACCOMPLISHED BY REMOVING THE INSERT, EMPTYING, AND RE-INSERTING IT INTO THE CATCH BASIN.

**CB INSERT**

SCALE: NTS

4



**OIL SEPARATOR CB**

SCALE: NTS

5

**ATTACHMENT 1  
CITY OF MERCER ISLAND  
ON-SITE DETENTION SYSTEM WORKSHEET  
(FOR NEW PLUS REPLACED IMPERVIOUS  
AREA OF 9,500 SF OR LESS)**

OWNER: GUDIPTY	ADDRESS: 3632 90TH AVE SE	PREPARED BY: NICK BOSSOFF ENG
PERMIT #:	MERCER ISLAND	PHONE: (425) 881-5904
DESIGNED: NB	DATE:	
TKB		
DRAWN: GUDI-2201		
JOB NUMBER: GUDI-2201		
FILE NAME: GUDI-2201.pln.dwg		

NEW PLUS REPLACED IMPERVIOUS SURFACE AREA (SF): 4,796	DETENTION PIPE DIA (INCH): 60	DETENTION PIPE LENGTH (FT): 46	ORIFICE #1 DIA 0.5 INCH, ELEV 258.75
SOIL TYPE: B	PIPE MATERIAL: ADS N-12		ORIFICE #2 DIA 1.6 INCH, ELEV 263.35

**ON-SITE DETENTION SYSTEM**  
NOT TO SCALE (ENGINEER TO FILL IN BLANKS)

**CONTROL STRUCTURE NOTES:**

- USE A MINIMUM OF A 54 IN. DIAM TYPE 2 CATCH BASIN. THE ACTUAL SIZE IS DEPENDENT ON CONNECTING PIPE MATERIAL AND DIAMETER.
- OUTLET PIPE: MIN. 6 INCH.
- METAL PARTS: CORROSION RESISTANT, NON-GALVANIZED PARTS PREFERRED. GALVANIZED PIPE PARTS TO HAVE ASPHALT TREATMENT 1.
- FRAME AND LADDER OR STEPS OFFSET SO:
  - CLEANOUT GATE IS VISIBLE FROM TOP.
  - CLIMB-DOWN SPACE IS CLEAR OF RISER AND CLEANOUT GATE.
  - FRAME IS CLEAR OF CURB.
- IF METAL OUTLET PIPE CONNECTS TO CEMENT CONCRETE PIPE, OUTLET PIPE TO HAVE SMOOTH O.D. EQUAL TO CONCRETE PIPE I.D. LESS 1/4 IN.
- PROVIDE AT LEAST ONE 3 X 0.080 GAUGE SUPPORT BRACKET ANCHORED TO CONCRETE WALL WITH 5/8 IN. STAINLESS STEEL EXPANSION BOLTS OR EMBEDDED SUPPORTS 2 IN. INTO CATCH BASIN WALL (MAXIMUM 3'-0" VERTICAL SPACING).
- THE SHEAR GATE SHALL BE MADE OF ALUMINUM ALLOY IN ACCORDANCE WITH ASTM B 209 AND ASTM B 275. DESIGNATION Z5304, OR CAST IRON IN ACCORDANCE WITH ASTM A 48, CLASS 3002. THE LIFT HANDLE SHALL BE MADE OF A SIMILAR METAL TO THE GATE (TO PREVENT GALVANIC CORROSION). IT MAY BE OF SOLID ROD OR HOLLOW TUBING, WITH ADJUSTABLE HOOK AS REQUIRED. A NEOPRENE RUBBER GASKET IS REQUIRED BETWEEN THE RISER MOUNTING FLANGE AND THE GATE FLANGE. INSTALL THE GATE SO THAT THE LEVEL-LINE MARK IS LEVEL WHEN THE GATE IS CLOSED. THE MATING SURFACES OF THE LID AND THE BODY SHALL BE MACHINED FOR PROPER FIT. ALL SHEAR GATE BOLTS SHALL BE STAINLESS STEEL.
- THE UPPER CATCH BASIN IS REQUIRED IF THE LENGTH OF THE DETENTION PIPE IS GREATER THAN 50 FT.

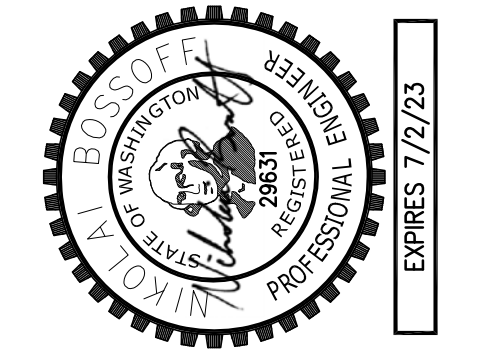
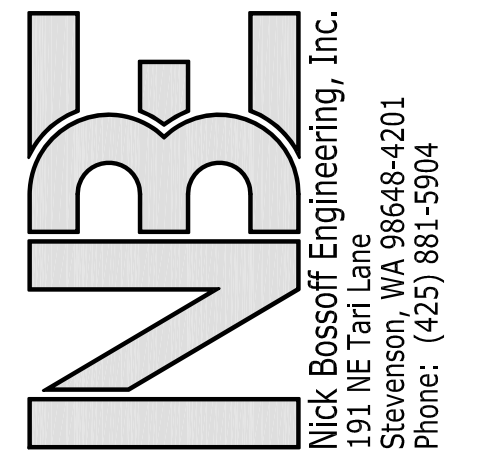
**ON-SITE DETENTION SYSTEM NOTES:**

- CALL DEVELOPMENT SERVICES (206-275-7605) 24 HOURS IN ADVANCE FOR A DETENTION SYSTEM INSPECTION BEFORE BACKFILLING AND FOR FINAL INSPECTIONS.
- RESPONSIBILITY FOR OPERATION AND MAINTENANCE OF DRAINAGE SYSTEMS ON PRIVATE PROPERTY IS RESPONSIBILITY OF THE PROPERTY OWNER. MATERIAL ACCUMULATED IN THE STORAGE PIPE MUST BE REMOVED FROM CATCH BASINS TO ALLOW PROPER OPERATION. THE OUTLET CONTROL ORIFICE MUST BE KEPT OPEN AT ALL TIMES.
- PIPE MATERIAL, JOINT, AND PROTECTIVE TREATMENT SHALL BE IN ACCORDANCE WITH SECTION 7.04 AND 9.05 OF THE WSDOT STANDARD SPECIFICATION FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, LATEST VERSION. SUCH MATERIALS INCLUDE THE FOLLOWING: LINED CORRUGATED POLYETHYLENE PIPE (LCP), ALUMINIZED TYPE 2 CORRUGATED STEEL PIPE AND PIPE ARCH (MEETS ASHTO DESIGNATIONS M274 AND M36), CORRUGATED OR SPIRAL RIB ALUMINUM PIPE, OR REINFORCED CONCRETE PIPE. CORRUGATED STEEL PIPE IS NOT ALLOWED.
- FOOTING DRAINS SHALL NOT BE CONNECTED TO THE DETENTION SYSTEM.

**DETENTION PIPE AND CONTROL STRUCTURE**

SCALE: NTS

7



NO.	REVISION
DATE	PERMIT SUBMITAL
08/11/22	

N. BOSSOFF, P.E.
PROJECT MANAGER:
DESIGNED: NB
TKB
DRAWN: GUDI-2201
JOB NUMBER: GUDI-2201
FILE NAME: GUDI-2201.pln.dwg

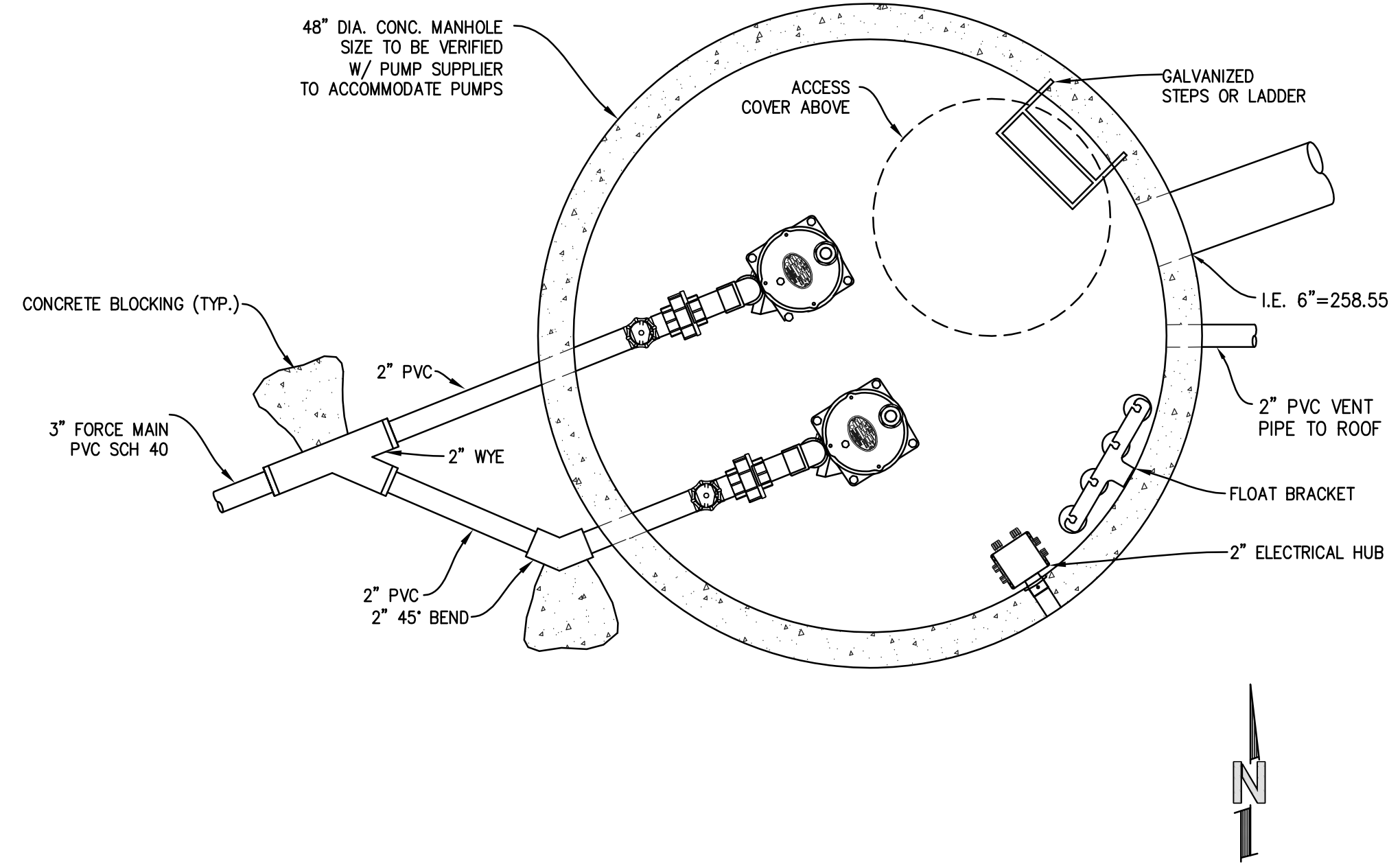
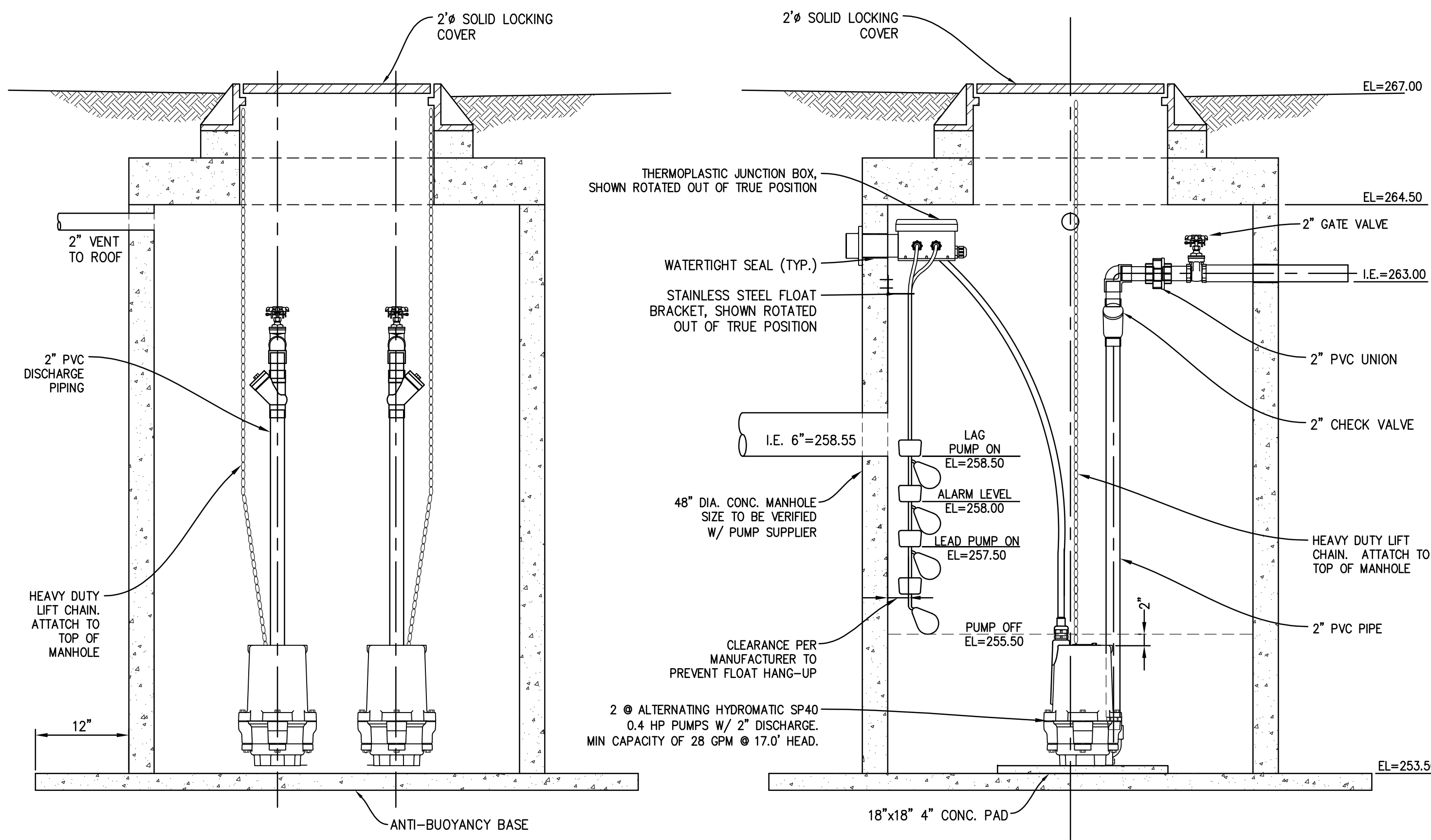
WASHINGTON

MITHILA  
3632 90TH AVE SE

MERCER ISLAND

TITLE:  
DETAILS

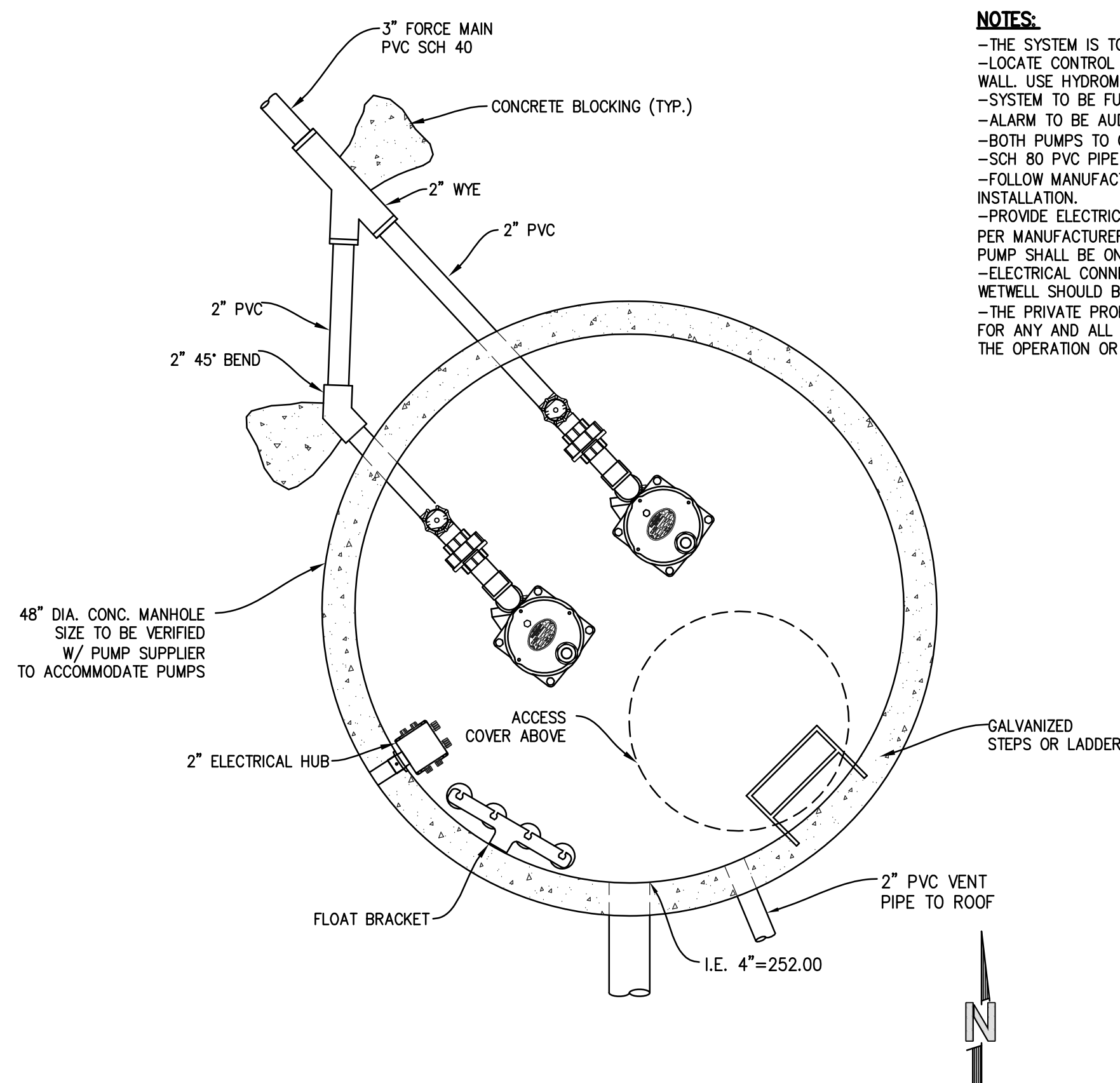
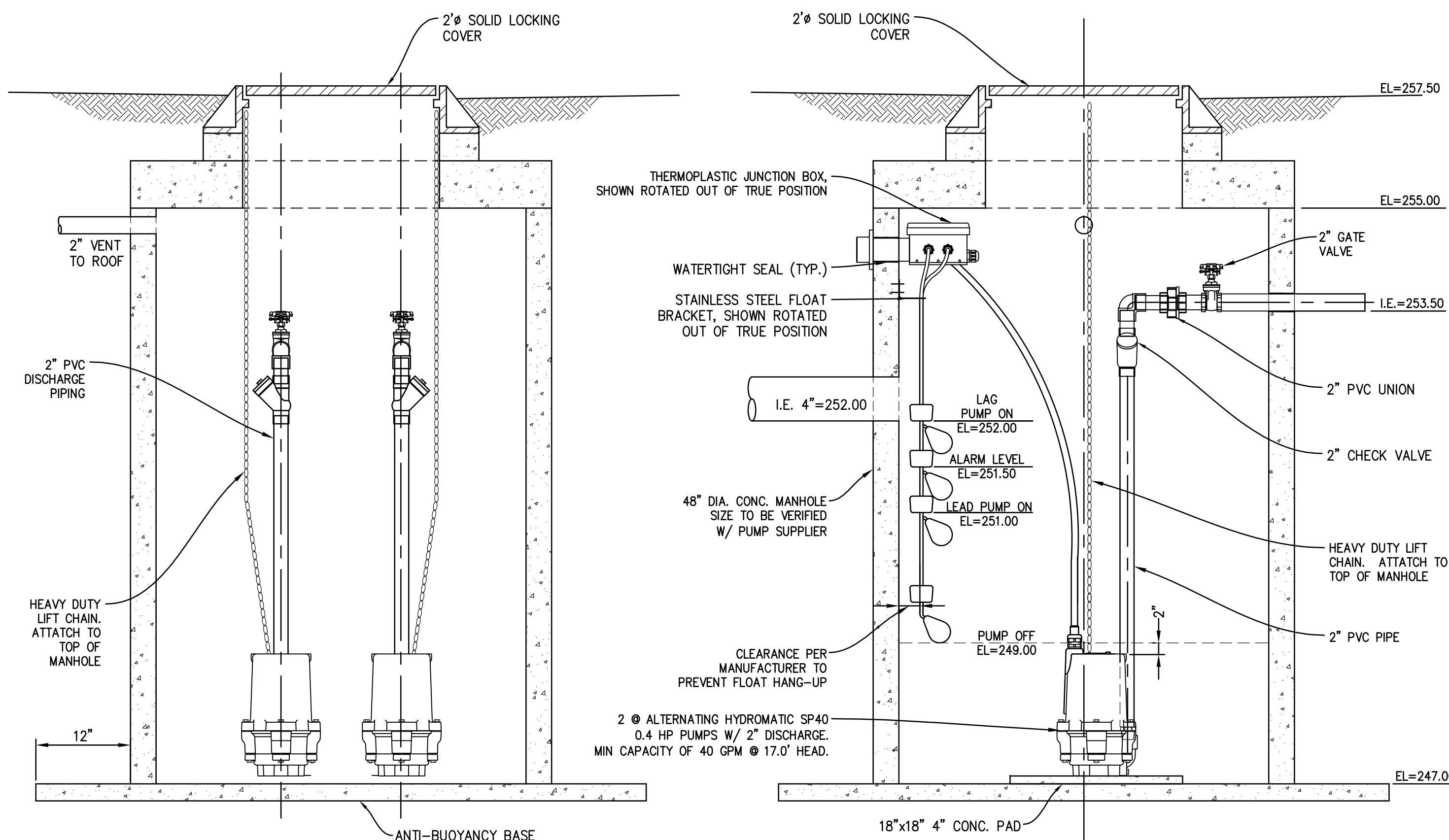
SHEET:  
C-3



**NOTES:**  
 -THE SYSTEM IS TO BE AN ALTERNATING DUPLEX SYSTEM.  
 -LOCATE CONTROL PANEL AND ALARM ON EXTERIOR BUILDING WALL. USE HYDRAMATIC PANEL OR APPROVED EQUIVALENT.  
 -SYSTEM TO BE FULLY AUTOMATIC WITH MANUAL OVERRIDE.  
 -ALARM TO BE AUDIO (BELL) AND VISUAL (LIGHT).  
 -BOTH PUMPS TO OPERATE AT "LAG PUMP ON" FLOAT LEVEL.  
 -SCH 80 PVC PIPE INSIDE MANHOLE.  
 -FOLLOW MANUFACTURER'S INSTRUCTIONS FOR ALL INSTALLATION.  
 -PROVIDE ELECTRICAL SUPPLY TO PANEL AND LIFT STATION PER MANUFACTURER'S SPECIFICATIONS. POWER TO PANEL AND PUMP SHALL BE ON A DEDICATED CIRCUIT.  
 -ELECTRICAL CONNECTIONS AND SERVICES WITHIN THE PUMP WETWELL SHOULD BE WATERTIGHT.  
 -THE PRIVATE PROPERTY OWNER(S) SHALL BE RESPONSIBLE FOR ANY AND ALL CLAIMS FOR INJURIES AND DAMAGE DUE TO THE OPERATION OR NON-OPERATION OF THE PUMP SYSTEM.

DRAIN LIFT STATION #1

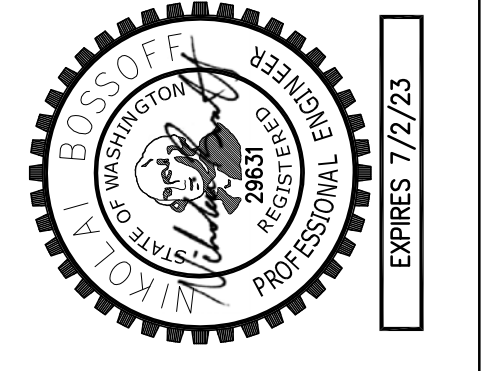
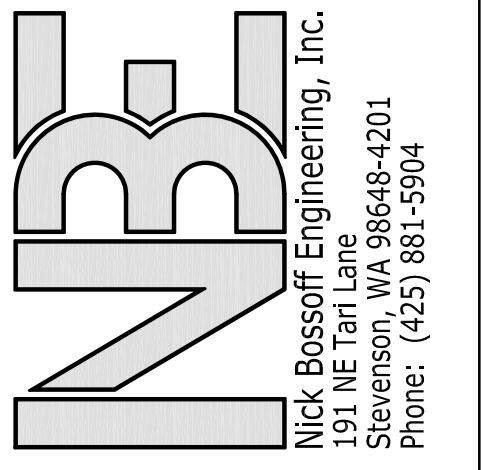
SCALE: NTS 1



**NOTES:**  
 -THE SYSTEM IS TO BE AN ALTERNATING DUPLEX SYSTEM.  
 -LOCATE CONTROL PANEL AND ALARM ON EXTERIOR BUILDING WALL. USE HYDRAMATIC PANEL OR APPROVED EQUIVALENT.  
 -SYSTEM TO BE FULLY AUTOMATIC WITH MANUAL OVERRIDE.  
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 -ELECTRICAL CONNECTIONS AND SERVICES WITHIN THE PUMP WETWELL SHOULD BE WATERTIGHT.  
 -THE PRIVATE PROPERTY OWNER(S) SHALL BE RESPONSIBLE FOR ANY AND ALL CLAIMS FOR INJURIES AND DAMAGE DUE TO THE OPERATION OR NON-OPERATION OF THE PUMP SYSTEM.

DRAIN LIFT STATION #2

SCALE: NTS 2



NO.	REVISION
1	PERMIT SUBMITTAL
DATE	08/11/22
PROJECT MANAGER:	N. BOSSOFF, P. E.
DESIGNED:	TKB
DRAWN:	GUDI-2201
JOB NUMBER:	GUDI-2201.pln.dwg
FILE NAME:	

WASHINGTON  
 MITHILA  
 3632 90TH AVE SE  
 MERCER ISLAND  
 TITLE: DETAILS  
 SHEET: C-4

**TOPOGRAPHIC SURVEY NOTES**

- UTILITIES SHOWN ON THIS SURVEY ARE BASED UPON ABOVE GROUND OBSERVATIONS, UTILITY LOCATES BY THIRD PARTIES, AND AS-BUILT PLANS WHERE AVAILABLE. ACTUAL LOCATIONS OF UNDERGROUND UTILITIES MAY VARY AND UTILITIES NOT SHOWN ON THIS SURVEY MAY EXIST ON THIS SITE.
- CONTOURS SHOWN ARE BASED ON A FIELD SURVEY.
- TREE IDENTIFICATION WAS PERFORMED BY SURVEY FIELD PERSONNEL AND SHOULD BE CONSIDERED A BEST GUESS. AN ARBORIST SHOULD BE RELIED UPON FOR MORE ACCURATE AND DETAILED IDENTIFICATION OF TREE SPECIES AND HEALTH.
- MERCER ISLAND LOT SLOPE IS CALCULATED FROM THE HIGH POINT OF THE LOT AT THE SW CORNER (EL=272.12) TO THE LOW POINT OF THE LOT AT THE SE CORNER (EL=224.55) OVER A DISTANCE OF 160.00'. THE RESULTING SLOPE = 29.7%.

**BOUNDARY SURVEY NOTES**

- INSTRUMENTATION FOR THIS SURVEY WAS A 3-SECOND LEICA VIVA TS15 SMART POLE TOTAL STATION/RTK GPS.
- PROCEDURES USED IN THIS SURVEY MEET OR EXCEED STANDARDS SET BY WAC 332-130-090. SURVEY WAS COMPLETED BY A FIELD TRAVERSE.
- ALL MONUMENTS WERE LOCATED DURING THIS SURVEY UNLESS OTHERWISE NOTED.
- ENCROACHMENTS NOTED AS "IN" OR "OUT" ARE RELATIVE TO THE SUBJECT PROPERTY.
- FENCE DIMENSIONS ARE GENERALLY TO THE CENTERLINE OF THE FENCE UNLESS OTHERWISE NOTED.
- STRUCTURE LOCATIONS ARE MEASURED TO THE FINISHED FASCIA UNLESS OTHERWISE NOTED.
- TREE LOCATIONS ARE MEASURED TO THE ESTIMATED CENTER OF THE TREE.
- ALL DIMENSIONS ARE IN DECIMAL FEET.

**VERTICAL DATUM & CONTOUR INTERVAL**

ELEVATIONS SHOWN ON THIS DRAWING ARE BASE ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND WERE ESTABLISHED USING RTK GPS.

2.0' CONTOUR INTERVAL - THE EXPECTED VERTICAL ACCURACY IS EQUAL TO 1/2 THE CONTOUR INTERVAL OR ± 1.0' FOR THIS PROJECT.

**LEGAL DESCRIPTION**

LOT 5, BLOCK 4 OF MADRONA CREST ADDITION ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 42 OF PLATS, PAGES 12-14, RECORDS OF KING COUNTY WASHINGTON.

SITUATE IN COUNTY OF KING, STATE OF WASHINGTON.

**PROJECT INFORMATION**

SURVEYOR: PLOG ENGINEERING, PLLC  
P.O. BOX 412  
RAVENSDALE, WA 98051  
PH: (206) 420-7130

PROPERTY OWNER: ELIZABETH TUBBS  
3532 90TH AVE SE  
MERCER ISLAND, WA 98040

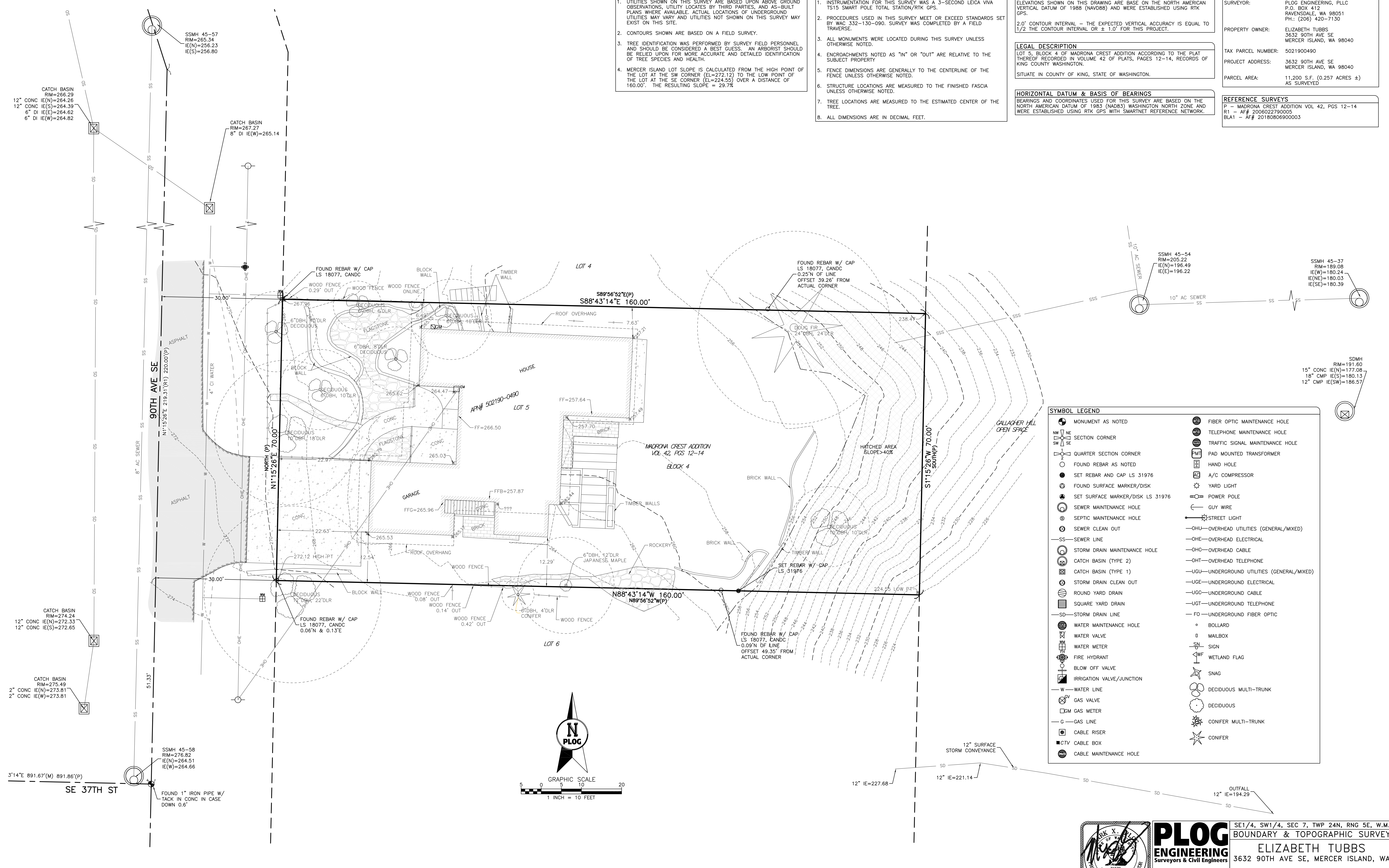
TAX PARCEL NUMBER: 5021900490

PROJECT ADDRESS: 3632 90TH AVE SE  
MERCER ISLAND, WA 98040

PARCEL AREA: 11,200 S.F. (0.257 ACRES ±)  
AS SURVEYED

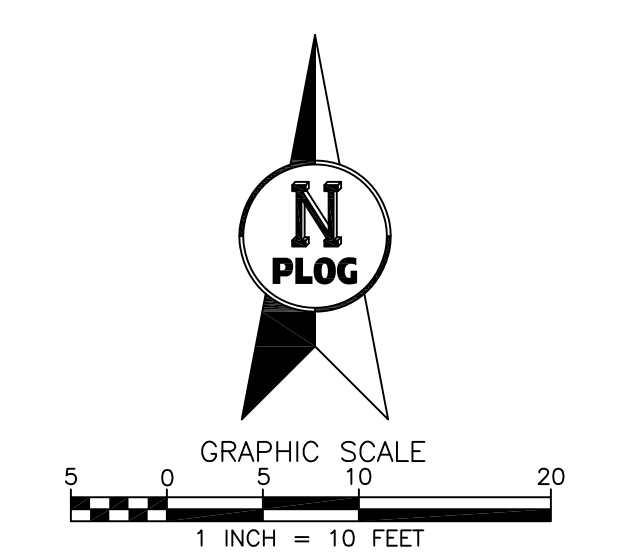
**REFERENCE SURVEYS**

P - MADRONA CREST ADDITION VOL 42, PGS 12-14  
R1 - AF# 2006022790005  
BLA1 - AF# 2018080690003



**SYMBOL LEGEND**

	MONUMENT AS NOTED		FIBER OPTIC MAINTENANCE HOLE
	SECTION CORNER		TELEPHONE MAINTENANCE HOLE
	QUARTER SECTION CORNER		TRAFFIC SIGNAL MAINTENANCE HOLE
	FOUND REBAR AS NOTED		PAD MOUNTED TRANSFORMER
	SET REBAR AND CAP LS 31976		HAND HOLE
	FOUND SURFACE MARKER/DISK		A/C COMPRESSOR
	SET SURFACE MARKER/DISK LS 31976		YARD LIGHT
	SEWER MAINTENANCE HOLE		POWER POLE
	SEPTIC MAINTENANCE HOLE		GUY WIRE
	SEWER CLEAN OUT		STREET LIGHT
	SEWER LINE		OHU—OVERHEAD UTILITIES (GENERAL/MIXED)
	STORM DRAIN MAINTENANCE HOLE		OHE—OVERHEAD ELECTRICAL
	CATCH BASIN (TYPE 2)		OHC—OVERHEAD CABLE
	CATCH BASIN (TYPE 1)		OHT—OVERHEAD TELEPHONE
	STORM DRAIN CLEAN OUT		UGU—UNDERGROUND UTILITIES (GENERAL/MIXED)
	ROUND YARD DRAIN		UGE—UNDERGROUND ELECTRICAL
	SQUARE YARD DRAIN		UGC—UNDERGROUND CABLE
	STORM DRAIN LINE		UGT—UNDERGROUND TELEPHONE
	WATER MAINTENANCE HOLE		FO—UNDERGROUND FIBER OPTIC
	WATER VALVE		BOLLARD
	WATER METER		MAILBOX
	FIRE HYDRANT		SIGN
	BLOW OFF VALVE		WETLAND FLAG
	IRRIGATION VALVE/JUNCTION		SNAG
	WATER LINE		DECIDUOUS MULTI-TRUNK
	GAS VALVE		DECIDUOUS
	GAS METER		CONIFER MULTI-TRUNK
	GAS LINE		CONIFER
	CABLE RISER		
	CABLE BOX		
	CABLE MAINTENANCE HOLE		



**PLOG ENGINEERING**  
Surveyors & Civil Engineers

31976  
REGISTERED  
PROFESSIONAL LAND SURVEYOR  
2021

SE1/4, SW1/4, SEC 7, TWP 24N, RNG 5E, W.M.  
**BOUNDARY & TOPOGRAPHIC SURVEY**  
ELIZABETH TUBBS  
3632 90TH AVE SE, MERCER ISLAND, WA

PROJECT NO.:	REVISION DATE:	REVISION NO.:	SHEET
254-21	12/25/2021	0	1 OF 1

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