

### Code Data

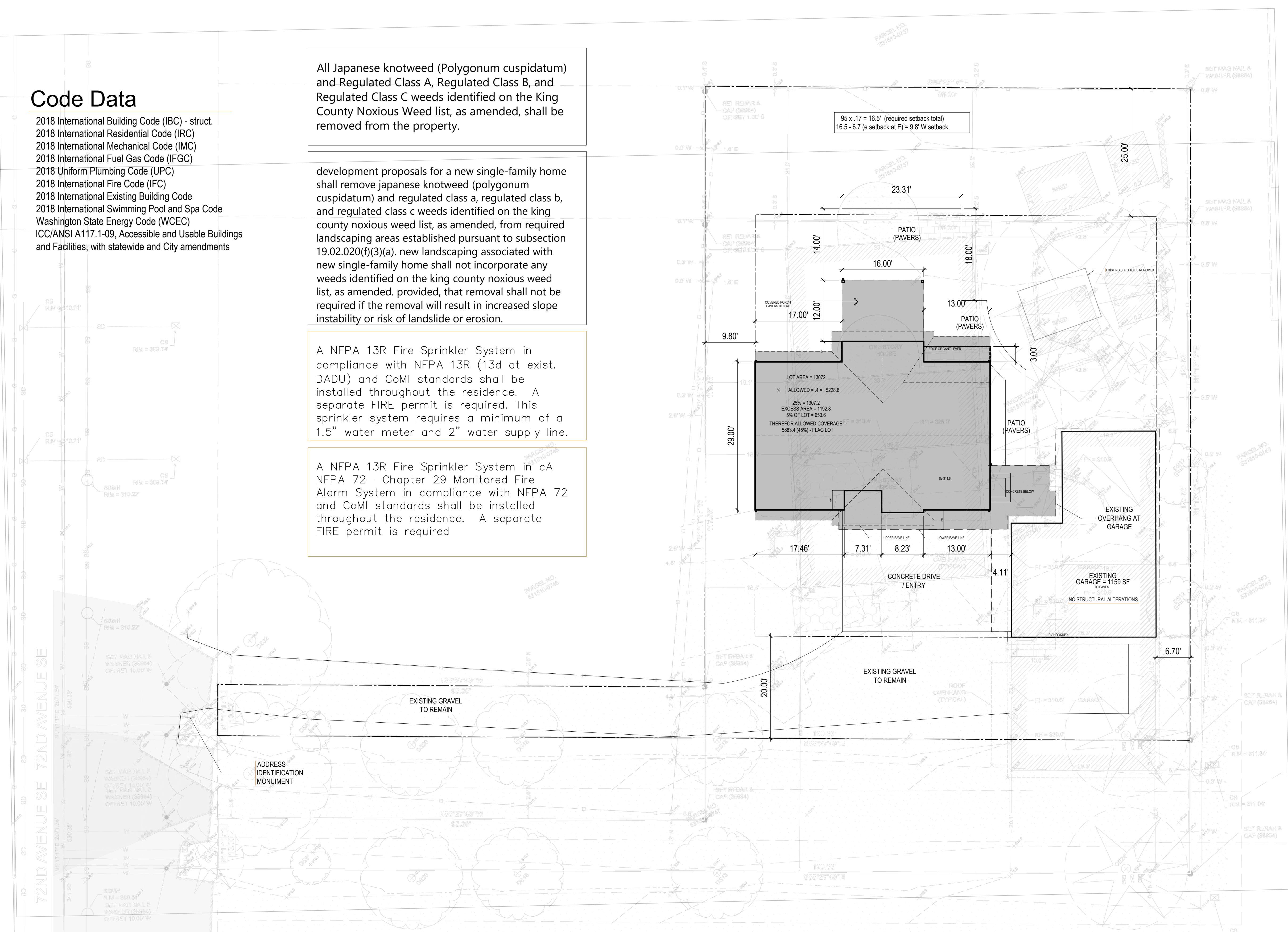
- 2018 International Building Code (IBC) - struct.
- 2018 International Residential Code (IRC)
- 2018 International Mechanical Code (IMC)
- 2018 International Fuel Gas Code (IFGC)
- 2018 Uniform Plumbing Code (UPC)
- 2018 International Fire Code (IFC)
- 2018 International Existing Building Code
- 2018 International Swimming Pool and Spa Code
- Washington State Energy Code (WCEC)
- ICC/ANSI A117.1-09, Accessible and Usable Buildings and Facilities, with statewide and City amendments

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.

A NFPA 13R Fire Sprinkler System in compliance with NFPA 13R (13d at exist. DADU) and CoMI standards shall be installed throughout the residence. A separate FIRE permit is required. This sprinkler system requires a minimum of a 1.5" water meter and 2" water supply line.

A NFPA 13R Fire Sprinkler System in compliance with NFPA 72- Chapter 29 Monitored Fire Alarm System shall be installed throughout the residence. A separate FIRE permit is required



### Civil Engineer

Duffy Ellis  
 CES Civil Engineering  
 102 NW Canal St Seattle WA 98107  
 206.930.0342

### Structural Engineer

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

### Contractor

Aspen Homes NW  
 Mike Yeganeh  
 P.O. BOX # 1056  
 Mercer Island, WA 98040  
 Lic # ASPPENHN870MK

### Project Description

Demolish existing and build new single family residence. Existing garage/ADU to remain.

### Parcel Number/Legal

Parcel # = 5315100744  
 Legal Description:  
 MCGILVRAS ISLAND ADD LOT B CITY OF MERCER ISLAND SHORT PLAT 76-6-021 REC UNDER AF #7607020565 SD PLAT DAF N 127.67 FT OF W 190.36 FT OF SD LOT 4 BLK 9

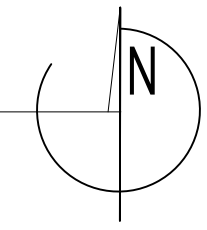
ZONING = R-9,6  
 lot size = 13,072 sf

### Owner

LEI WU & INGRID CHANG  
 2956 72nd Ave SE Mercer Island

### A. SITE PLAN

- 1/10" = 1'-0"
- SPOT ELEVATION, FINAL
  - EAVE/ROOF LINE
  - EXTENT OF LIVING AREA
  - BUILDING FOOTPRINT (FOUNDATION EXTENTS)
  - SHADED AREA = BLDG EXTENTS TO EAVE
  - EXISTING TOPOGRAPHY



LOT COVERAGE (new shaded)  
 House roof to eaves = 2092.5 sf  
 (includes covered porches/decks = 452 sf)  
 Existing garage / ADU = 1159 sf  
 driveway = 2540 sf  
 TOTAL = 5791.5 sf  
 allowable = 13072 x .45 = 5882.4 sf  
 amount available for hardscape = 90.9 sf

HARDSCAPE  
 PATIO AND WALK = 600 sf  
 allowable = 13072 sf x .09 = 1176.5 sf

F.A.R. CALCULATION  
 Main Floor FA = 1374 sf  
 Upper Floor FA = 1413.4 sf  
 (e) ADU and garage = 960.4 sf  
 roof eave over 2nd floor porch = 32 sf  
 LESS stair modifier = (-92.3)  
 TOTAL = 3686.7 sf  
 allowable = 13072 x .4 = 5288.8

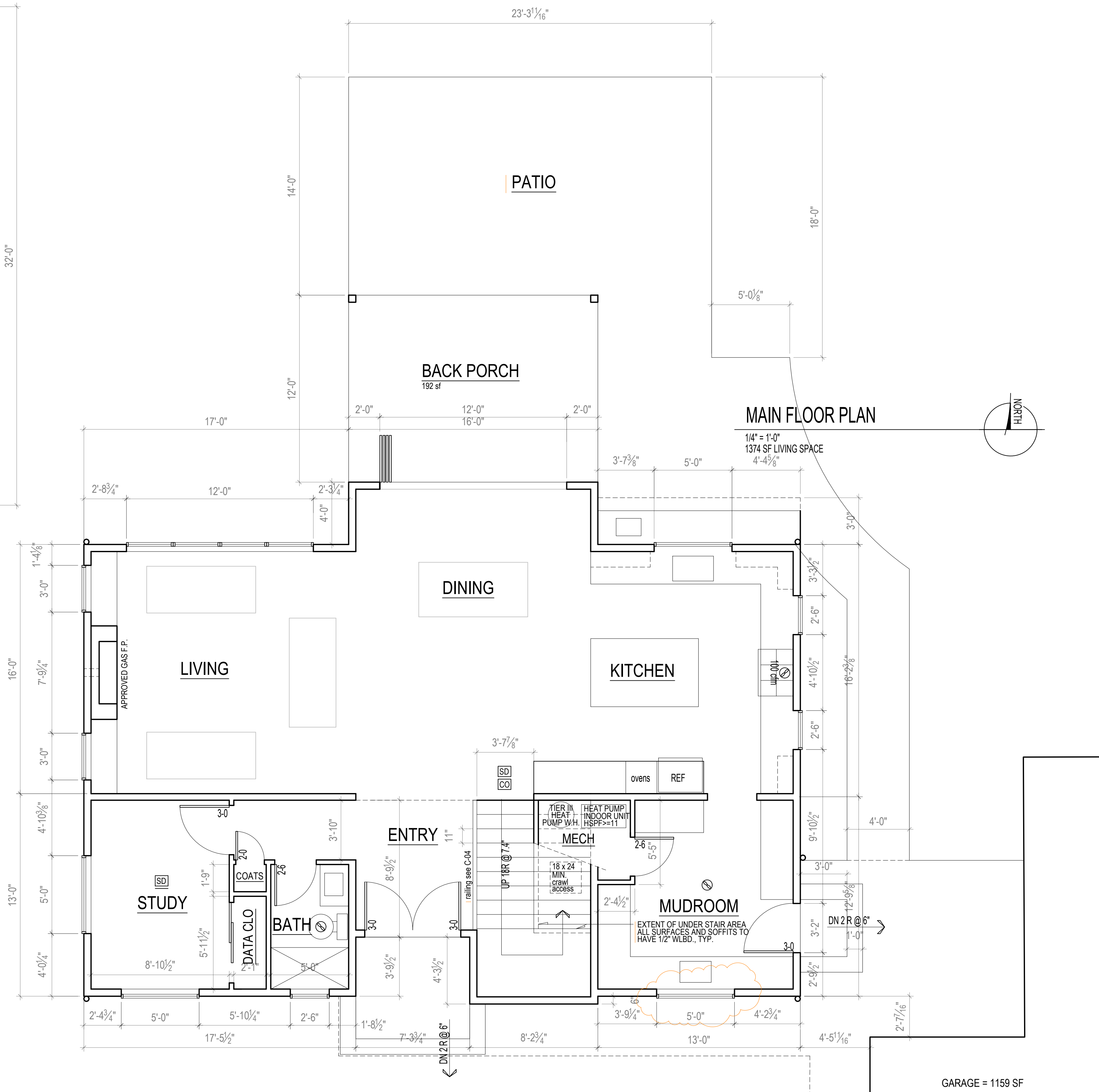
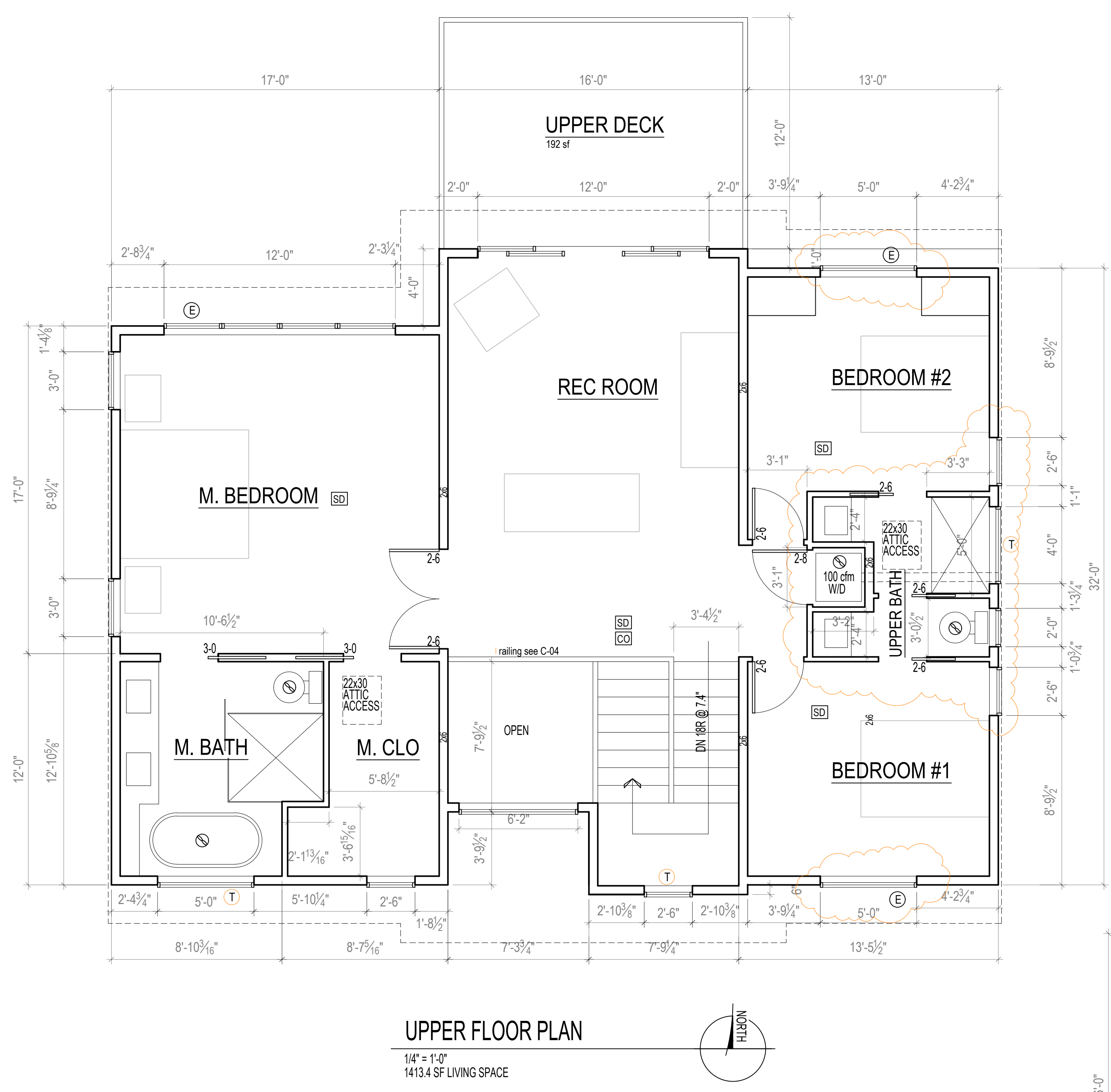
LOT SLOPE  
 HIGH POINT = 311'  
 LOW POINT = 309.7  
 LOT SLOPE = 1.3'/223.25' = 0.6%

**Wu-Chang Residence**  
 2956 72nd Ave SE Mercer Island

CONTENTS  
 Site Plan

DRAWN BY  
 CRL  
 DATE  
 3.11.24  
 7.11.24

01



**NOTES**

- [SD] = SMOKE DETECTOR, HARDWARE, INTERCONNECTED w/ BATTERY BACK-UP
- [CO] = CARBON MONOXIDE DETECTOR, HARDWARE w/ BATTERY BACK-UP
- [HD] = HEAT DETECTOR, HARDWARE 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

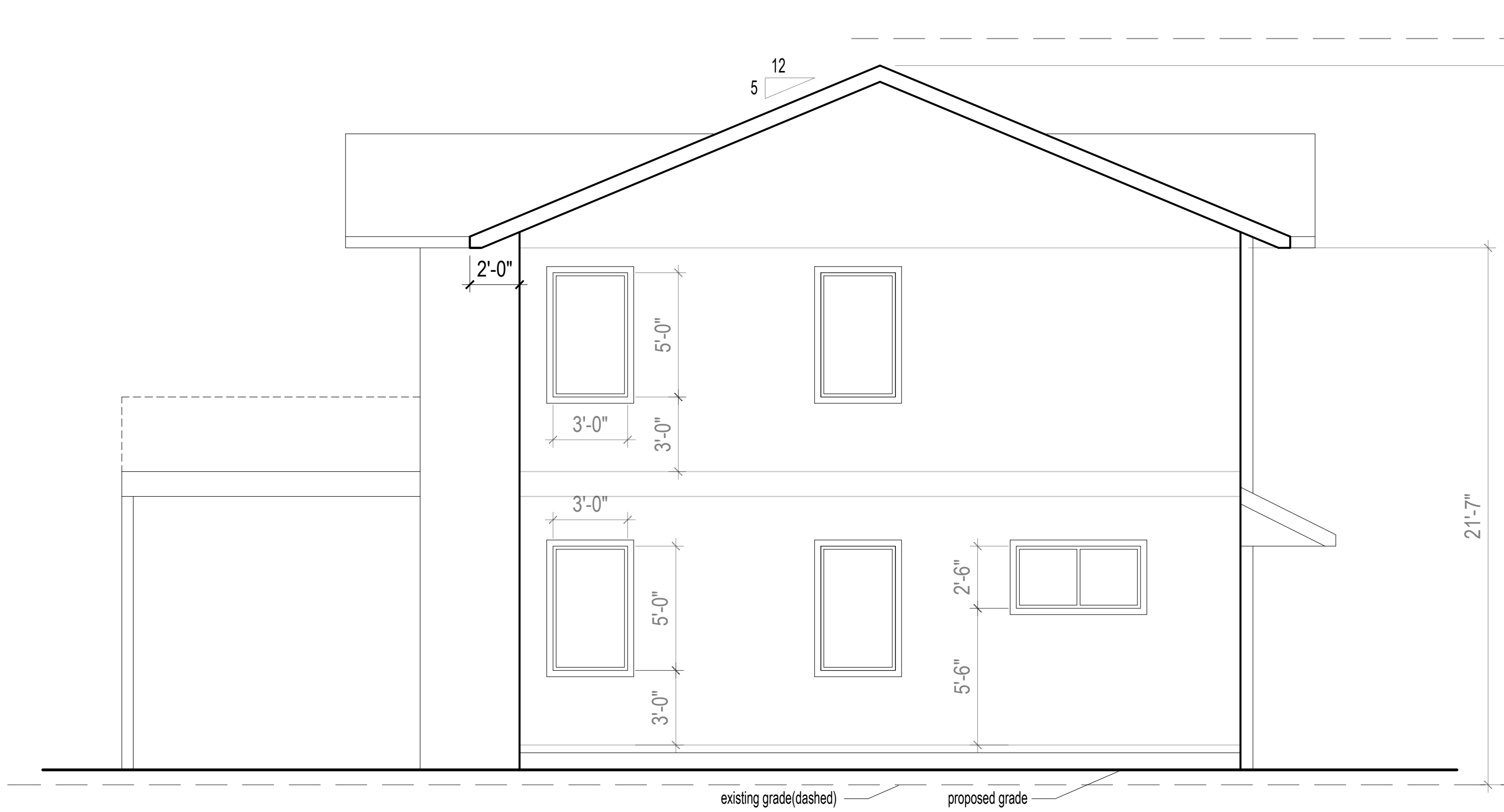
**Wu-Chang Residence**  
 2956 72nd Ave SE Mercer Island

**CONTENTS**  
 Floor Plans

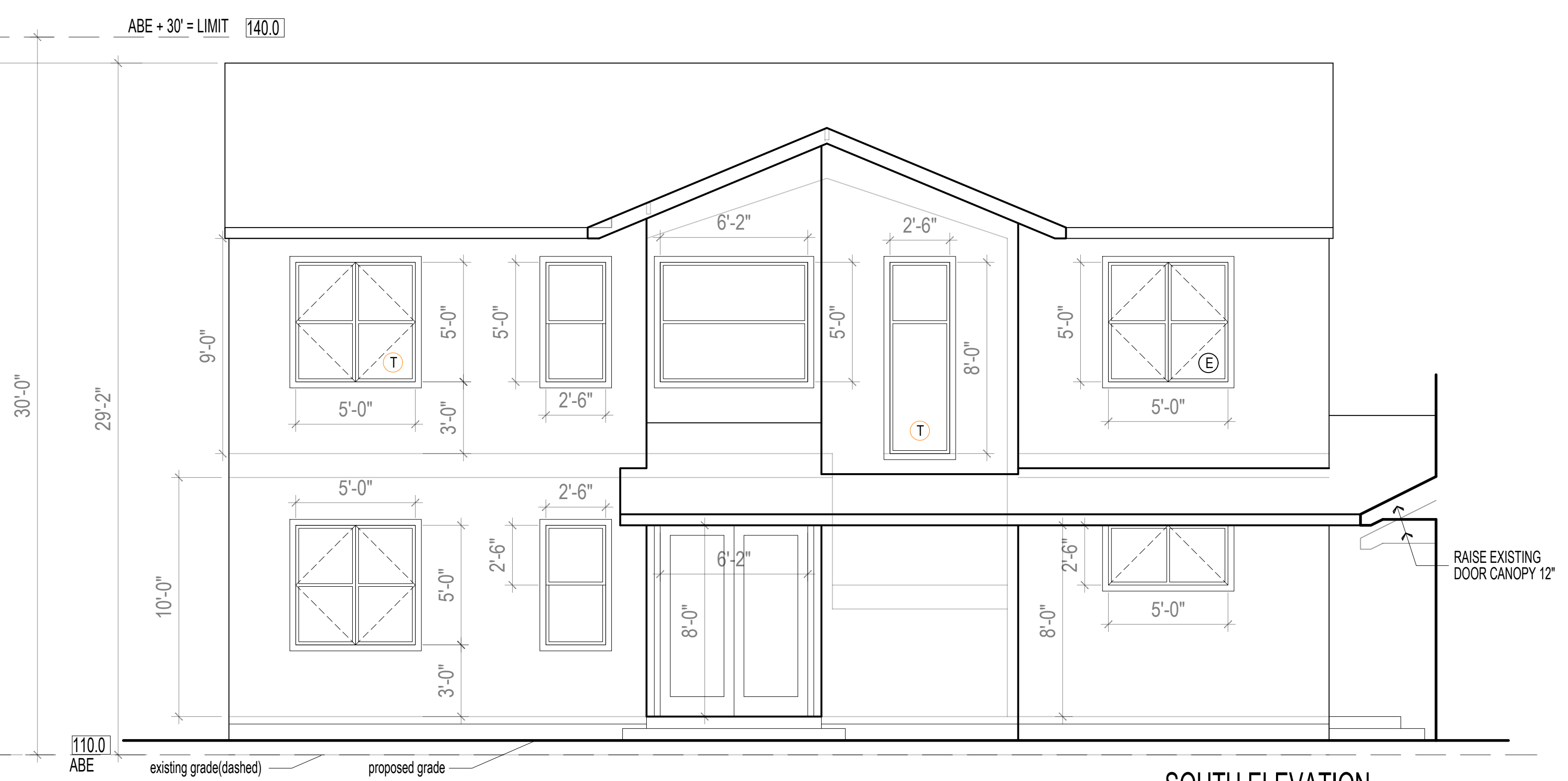
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 CRL

**DATE**  
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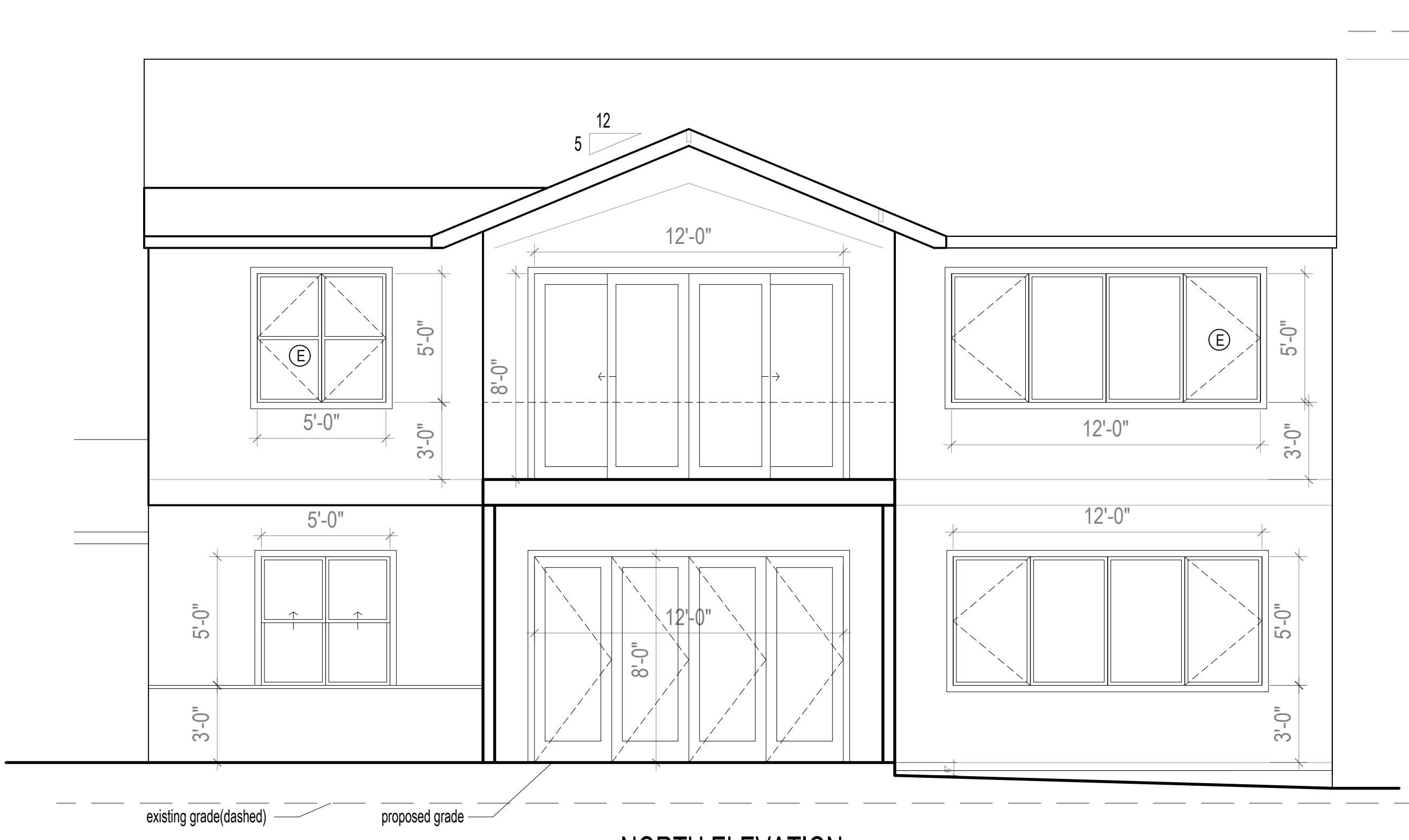
**02**



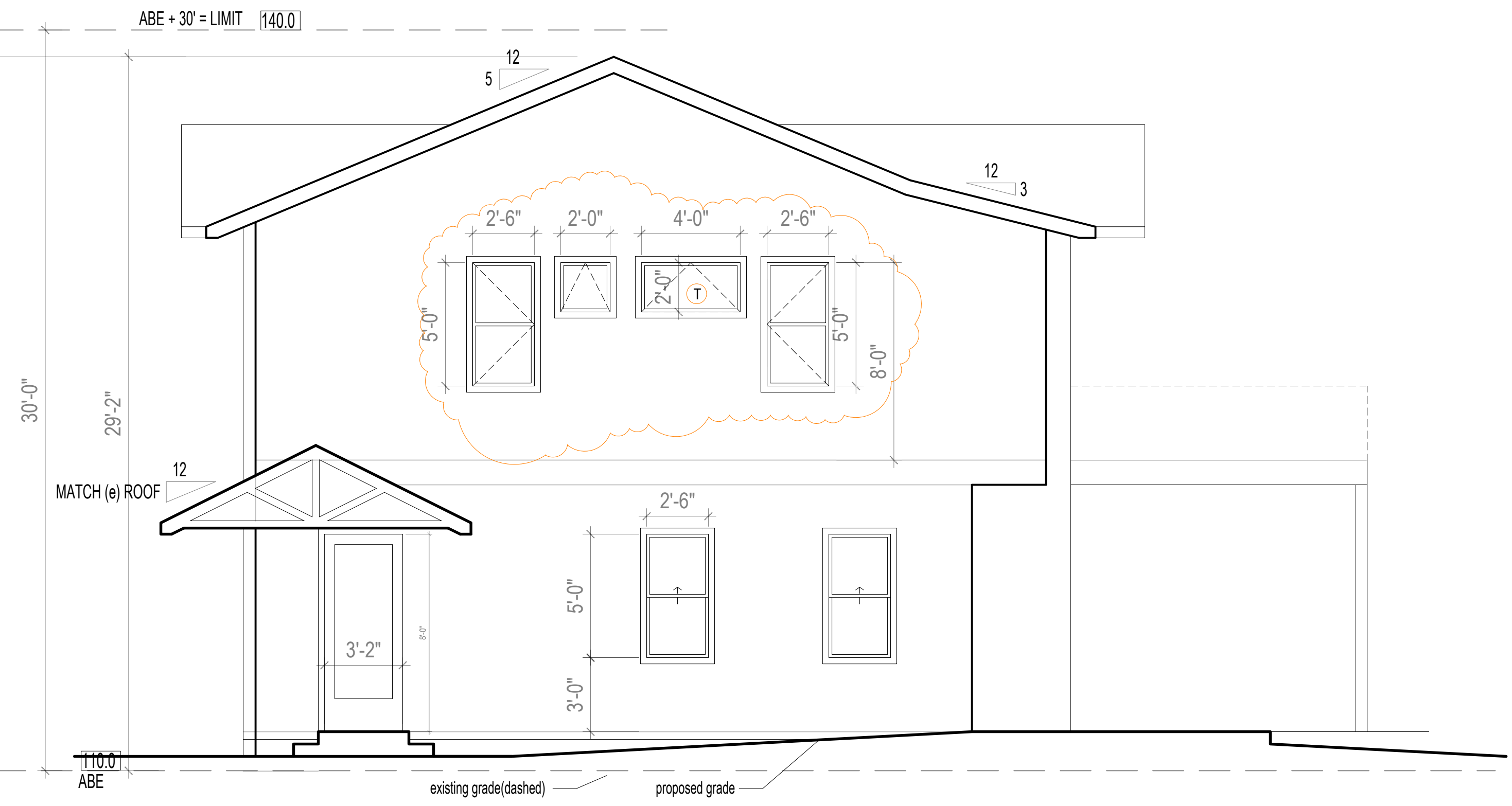
**WEST ELEVATION**  
 1/4" = 1'-0"



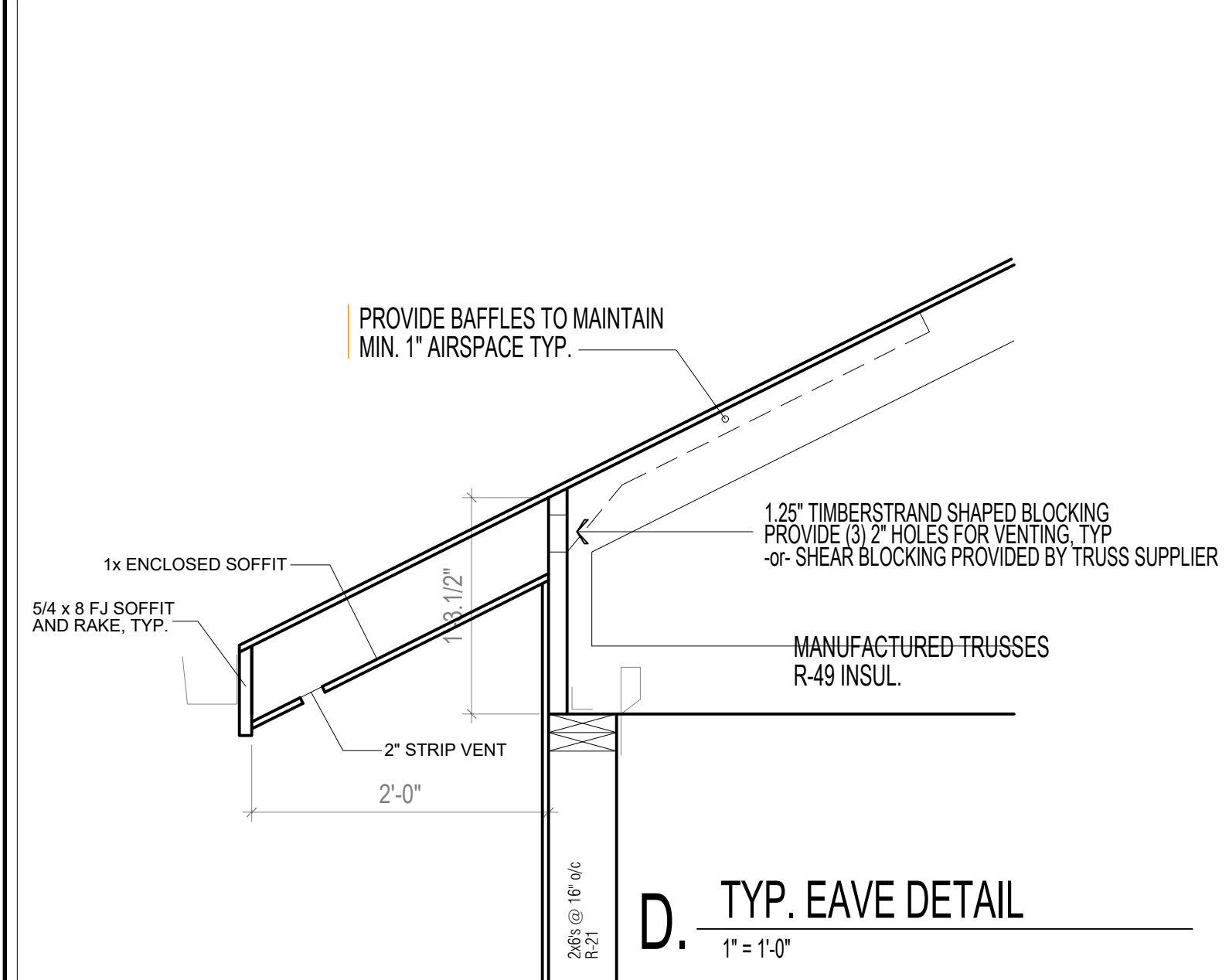
**SOUTH ELEVATION**  
 1/4" = 1'-0"



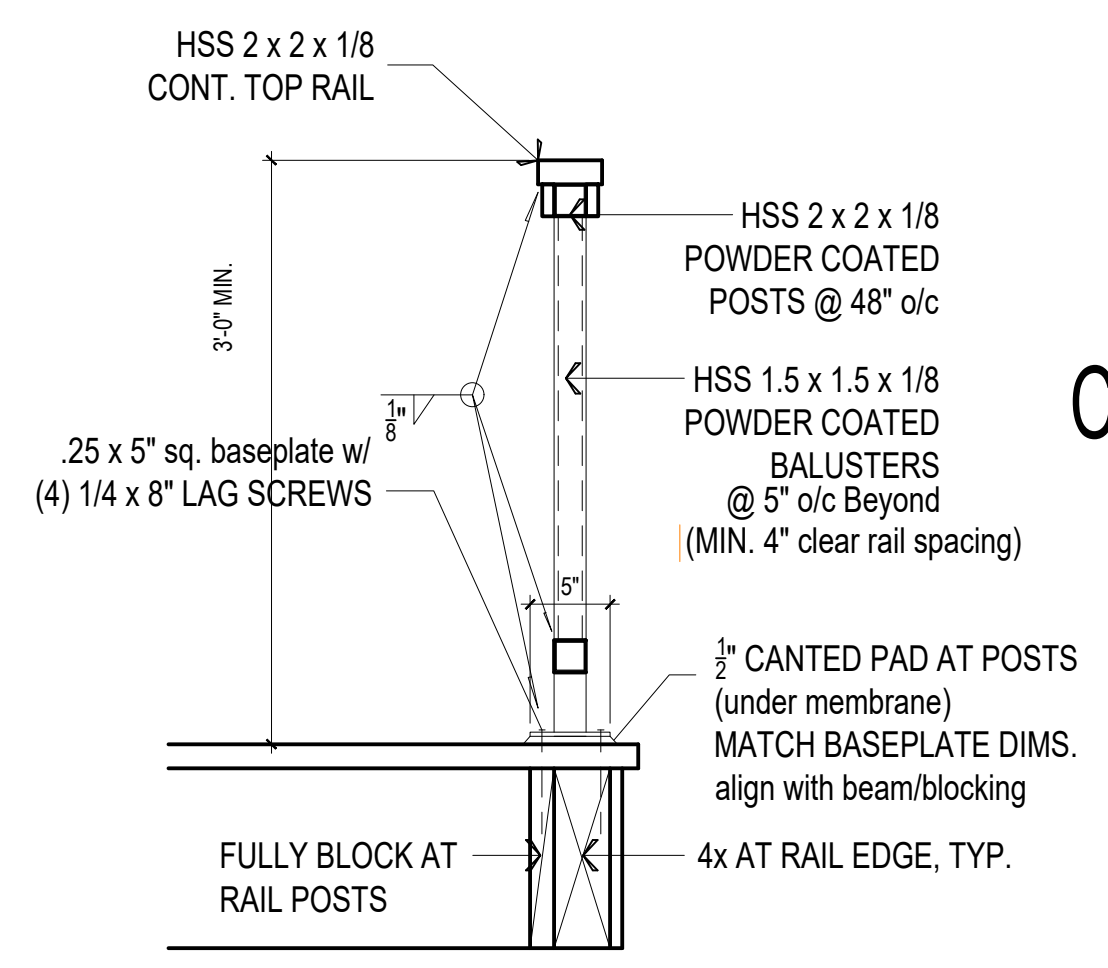
**NORTH ELEVATION**  
 1/4" = 1'-0"



**EAST ELEVATION**  
 1/4" = 1'-0"



**D. TYP. EAVE DETAIL**  
 1" = 1'-0"

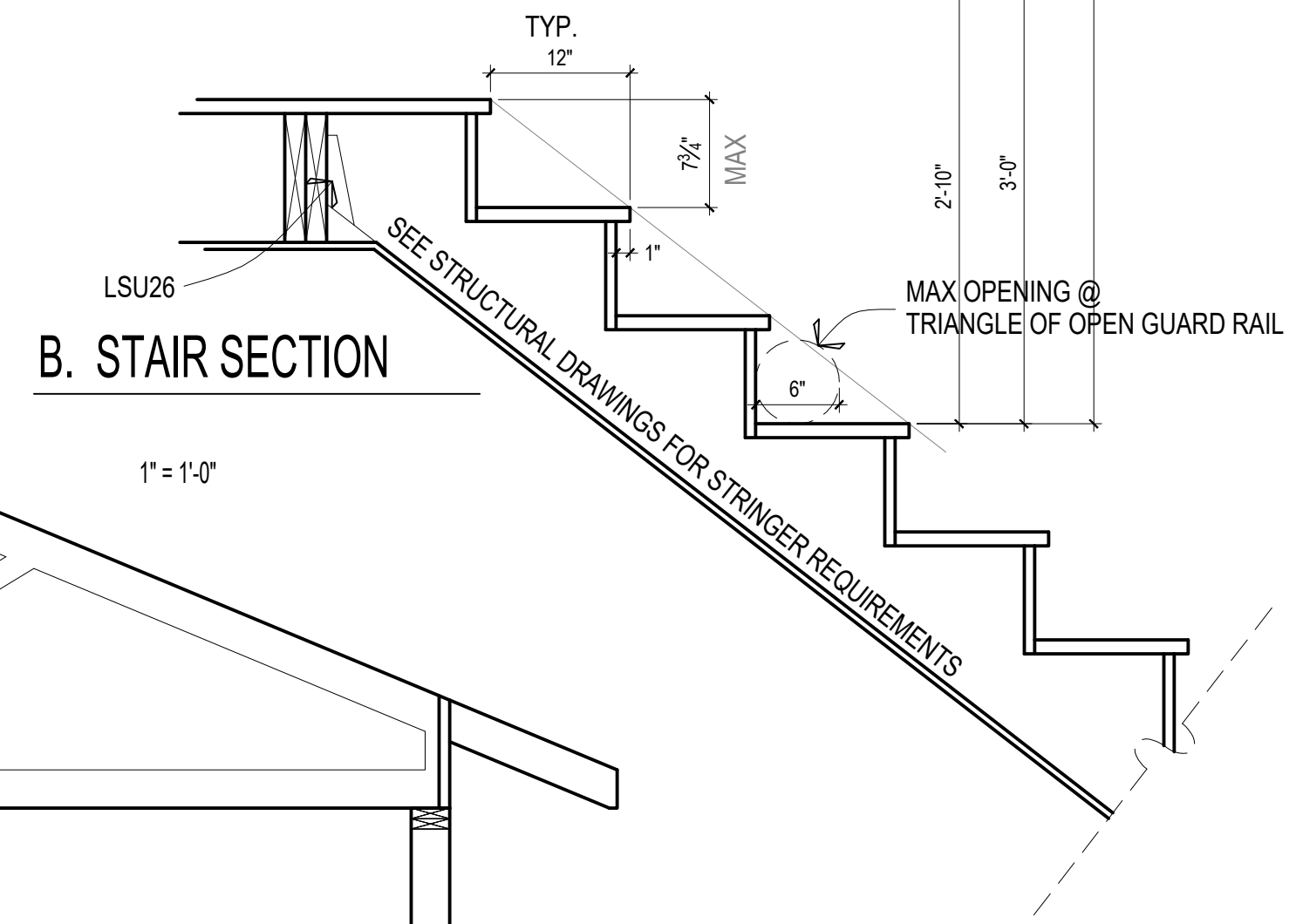


**C. RAILING DETAIL**  
 1" = 1'-0"

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.

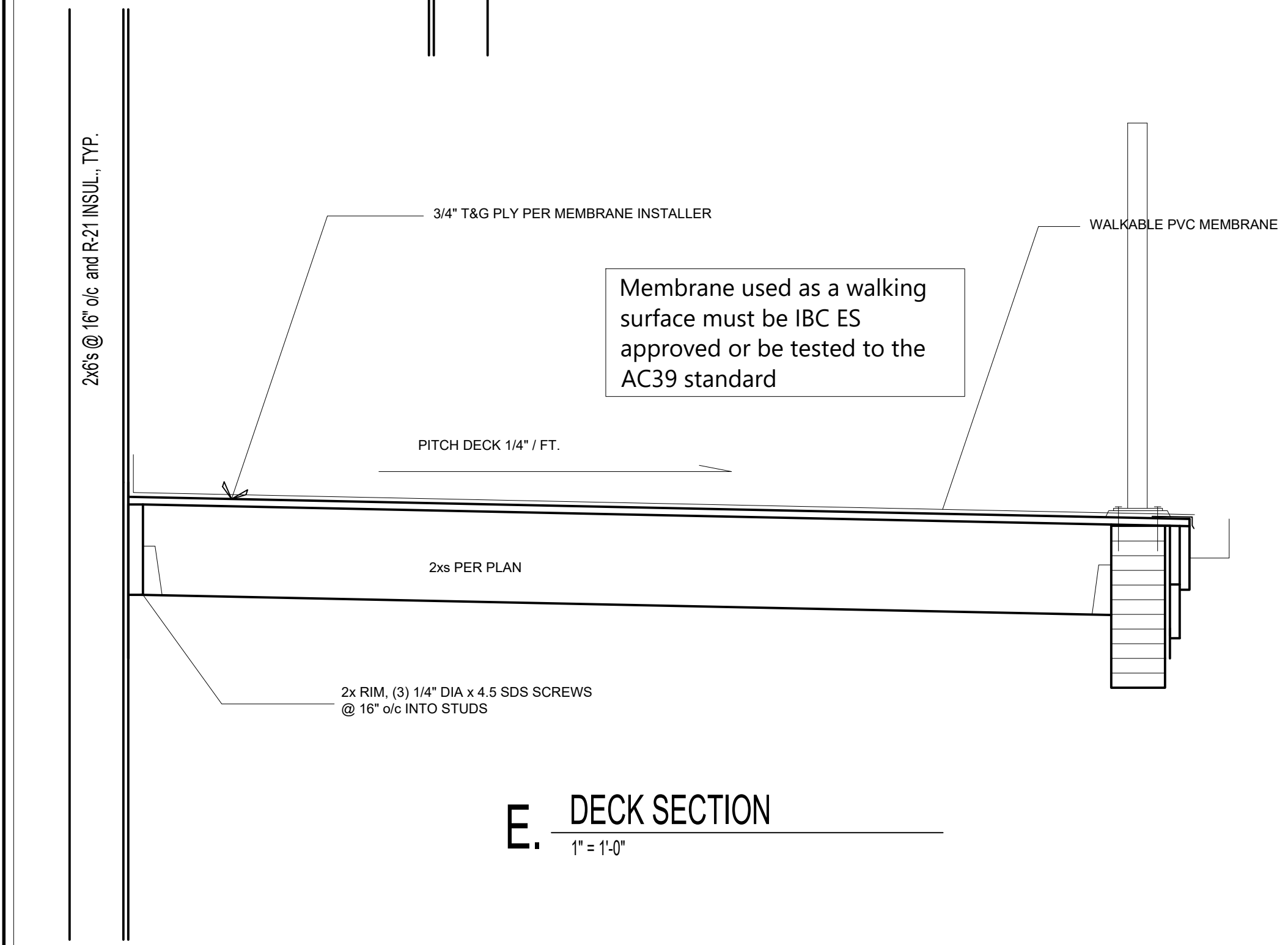
Enclosed accessible space under stairs shall have walls, under-stair surface and any soffits protected on the enclosed side with 1/2-inch (12.7 mm) gypsum board.

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

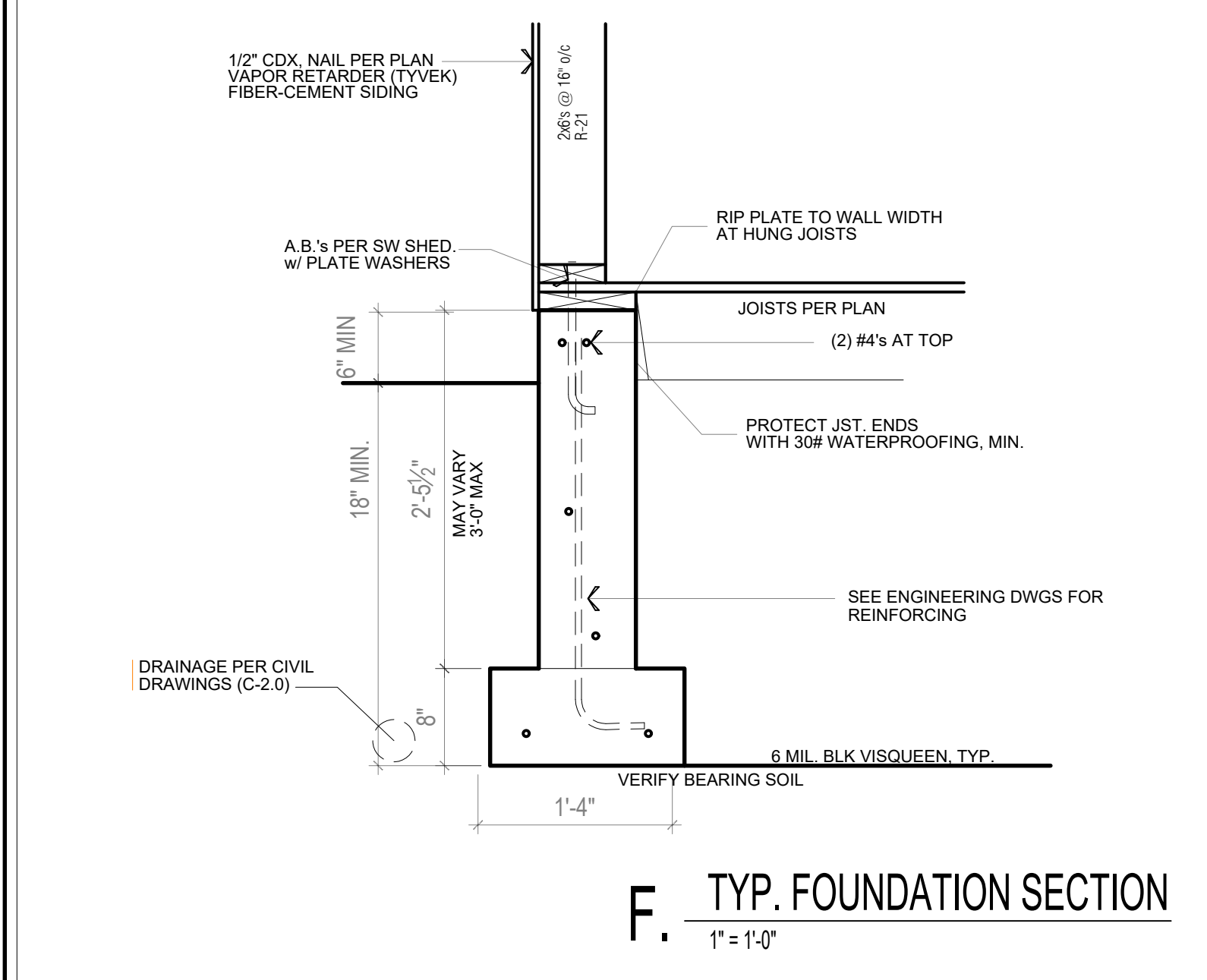


**B. STAIR SECTION**  
 1" = 1'-0"

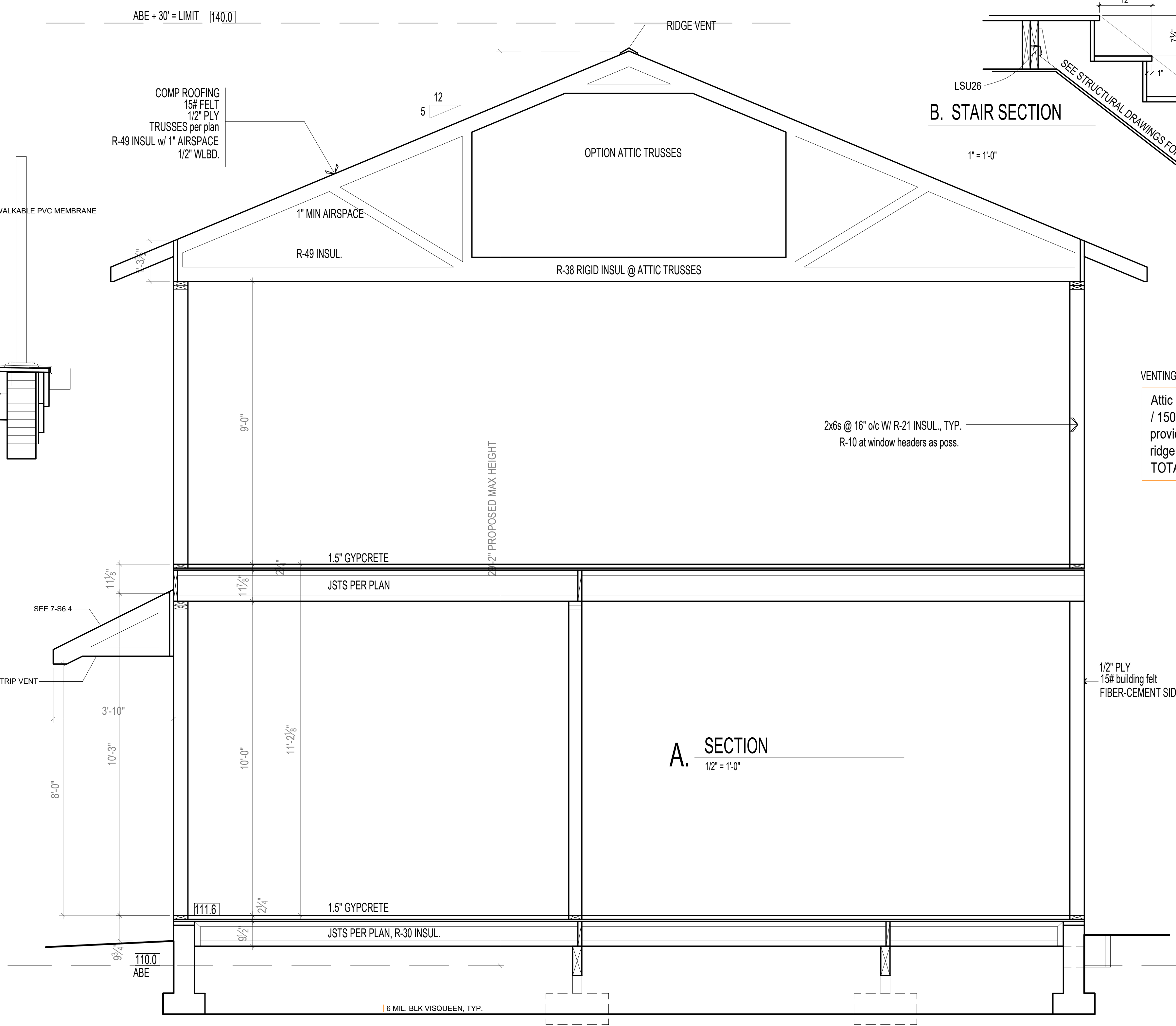
VENTING CALCS:  
 Attic area = 1334 sf, therefor venting required = 1334 sf / 150 = 8.9 sf  
 provided venting = 9.42 si/bay low x 36 bays = 339 si  
 ridge = 15 si/lnft x 67 lnft = 1005 si  
 TOTAL VENTING = 1344 si / 144 si/sf = 9.3 sf > 8.9, ok



**E. DECK SECTION**  
 1" = 1'-0"



**F. TYP. FOUNDATION SECTION**  
 1" = 1'-0"



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

2x6s @ 16" o/c w/ R-21 INSUL., TYP.  
 R-10 at window headers as poss.

1/2" PLY  
 15# building felt  
 FIBER-CEMENT SIDING

# Energy Code Info - Primary

2018 WA STATE PRESCRIPTIVE PATH  
 HEATED FLOOR AREA = 2787.4 SF  
 LESS THAN 5000 SF HEATED SPACE - 6 CREDITS REQ.

energy credit option	credit value	summary
2	1	heat pump
2.2	1	2.0 ACH + HRV
3.5	1.5	central HP, HSPF>=11
4.1	0.5	AH in heated space
5.5	2	elec. HP WH
total credits		6

## PRIMARY RESIDENCE HVAC NOTES

DUCTED HEAT PUMP (HSPF>11.0) INT. AIR HANDLER  
 HEAT RECOVERY VENTILATION  
 REQUIRED VENTING = CONTINUOUS 120CFM  
 SET TO OPERATE AT 240 CFM FOR 2 HOURS IN EA. 4 HR PERIOD (50%)  
 PROVIDED BY VARIABLE SPEED HIGH EFF. FAN (MAX. 35 WATTS/CFM)  
 CONTROLLED TO OPERATE AT LOW SPEED IN VENTILATION  
 MODE ONLY.

design professional or builder shall complete and post an "Insulation Certificate for Residential Construction" within 3' of the electrical panel prior to final inspection.

Maximum flow rates for shower heads and kitchen sink - 1.75 GPM or less. All other lavatory faucets - 1.0 GPM or less.

Per WSEC R402.4, The building thermal Envelope shall be constructed to limit air leakage to 2.0 air changes per hour maximum. The results of the test shall be signed by the party conducting the test and provided to the code official (R402.4.1.2). Per WSEC R403.1.1, at least one thermostat per dwelling unit shall be capable of controlling the heating and cooling system on a daily schedule. Per WSEC R403.2.2, Ducts, air handlers, and filter boxes shall be sealed. Per WSEC R404.1, A minimum of 75 percent of the lamps in permanently installed lighting fixtures shall be high-efficacy lamps.

All Climate Zones (Table R402.1.1)		
	R-Value <sup>a</sup>	U-Factor <sup>a</sup>
Fenestration U-Factor <sup>b</sup>	n/a	0.30
Skylight U-Factor <sup>b</sup>	n/a	0.50
Glazed Fenestration SHGC <sup>b,e</sup>	n/a	n/a
Ceiling <sup>e</sup>	49	0.026
Wood Frame Wall <sup>e,h</sup>	21 int	0.056
Floor	30	0.029
Below Grade Wall <sup>c,h</sup>	10/15/21 int + TB	0.042
Slab <sup>d,f</sup> R-Value & Depth	10, 2 ft	n/a
R-values are minimums. U-factors and SHGC are maximums. When insulation is installed in a cavity that is less than the label or design thickness of the insulation, the compressed R-value of the insulation from Appendix Table A101.4 shall not be less than the R-value specified in the table.		
<b>a</b> The fenestration U-factor column excludes skylights.		
<b>b</b> "10/15/21 +5TB" means R-10 continuous insulation on the exterior of the wall, or R-15 continuous insulation on the interior of the wall, or R-21 cavity insulation plus a thermal break between the slab and the basement wall at the interior of the basement wall. "10/15/21 +5TB" shall be permitted to be met with R-13 cavity insulation on the interior of the basement wall plus R-5 continuous insulation on the interior or exterior of the wall. "5TB" means R-5 thermal break between floor slab and basement wall.		
<b>c</b> R-10 continuous insulation is required under heated slab on grade floors. See Section R402.2.9.1.		
<b>d</b> For single rafter- or joist-vaulted ceilings, the insulation may be reduced to R-38 if the full insulation depth extends over the top plate of the exterior wall.		
<b>e</b> R-7.5 continuous insulation installed over an existing slab is deemed to be equivalent to the required perimeter slab insulation when applied to existing slabs complying with Section R503.1.1. If foam plastic is used, it shall meet the requirements for thermal barriers protecting foam plastics.		
<b>f</b> For log structures developed in compliance with Standard ICC 400, log walls shall meet the requirements for climate zone 5 of ICC 400.		
<b>g</b> Int. (intermediate framing) denotes framing and insulation as described in Section A103.2.2 including standard framing 16 inches on center, 78% of the wall cavity insulated and headers insulated with a minimum of R-10 insulation.		
<b>h</b>		

## ENERGY CREDIT DESCRIPTIONS

**2.2**  
 Compliance based on Section R402.4.1.2: Reduce the tested air leakage to 2.0 air changes per hour at maximum 50 Pascals or For R-2 Occupancies, optional compliance based on Section R402.4.1.2: Reduce the tested air leakage to 0.25 cfm/sf maximum at 50 Pascals and All whole house ventilation requirements as determined by Section M1507.3 of the International Residential Code or Section 403.8 of the International Mechanical Code shall be met with a heat recovery ventilation system with minimum sensible heat recovery efficiency of 0.65.

**3.5**  
 Air-source, centrally ducted heat pump with minimum HSPF of 11.0.

**4.1**  
 All supply and return ducts located in an unconditioned attic shall be deeply buried in ceiling insulation in accordance with Section R403.3.7.

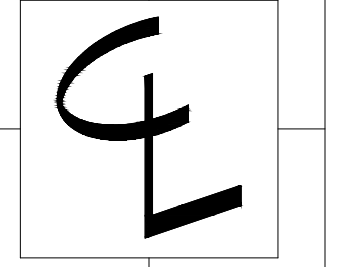
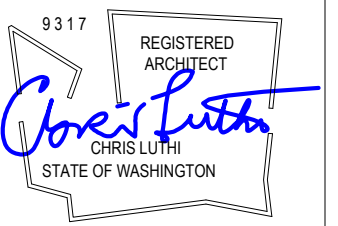
For mechanical equipment located outside the conditioned space, a maximum of 10 linear feet of return duct and 5 linear feet of supply duct connections to the equipment may be outside the deeply buried insulation. All metallic ducts located outside the conditioned space must have both transverse and longitudinal joints sealed with mastic. If flex ducts are used, they cannot contain splices.

Duct leakage shall be limited to 3 cfm per 100 square feet of conditioned floor area. Air handler(s) shall be located within the conditioned space.

**5.5**  
 Water heating system shall include one of the following: Electric heat pump water heater meeting the standards for Tier III of NEEA's advanced water heating specification or For R-2 Occupancy, electric heat pump water heater(s), meeting the standards for Tier III of NEEA's advanced water heating specification, shall supply domestic hot water to all units. If one water heater is serving more than one dwelling unit, all hot water supply and recirculation piping shall be insulated with R-8 minimum pipe insulation.

Window, Skylight and Door Schedule										
Project Information					Contact Information					
Mastan										
Exempt Swinging Door (24 sq. ft. max.)					Ref.	U-factor	Qt.	Width Feet Inch	Height Feet Inch	Area UA
Exempt Glazed Fenestration (15 sq. ft. max.)										0.0 0.0
Vertical Fenestration (Windows and doors)										
Component Description	Ref.	U-factor	Qt.	Width Feet Inch	Height Feet Inch	Area	UA			
ENTRY		0.30	1	6	8	49.3	14.80			
STUDY		0.30	1	7	5	37.5	11.25			
STUDY		0.30	1	5	5	25.0	7.50			
KITCHEN		0.30	1	5	5	25.0	7.50			
LR		0.30	2	2	2	12.5	3.75			
LR		0.30	2	2	5	25.0	7.50			
LR		0.30	1	6	2	16.3	4.88			
LR		0.30	1	16	8	128.0	38.40			
LR		0.30	2	8	2	40.0	12.00			
DINING		0.30	1	12	8	96.0	28.80			
LAUNDRY		0.30	1	3	8	25.3	7.60			
HALL		0.30	2	6	3	38.0	11.41			
MBED		0.30	3	3	1	13.5	4.05			
MBED		0.30	2	5	6	60.0	18.00			
MBED		0.30	1	5	8	40.0	12.00			
MBATH		0.30	1	6	5	32.5	9.75			
UP BATH		0.30	1	2	2	4.0	1.20			
2BED		0.30	1	5	2	10.0	3.00			
2BED		0.30	1	5	5	25.0	7.50			
1BED		0.30	1	5	2	10.0	3.00			
1BED		0.30	1	7	5	37.5	11.25			
RECROOM		0.30	2	5	2	25.0	7.50			
GUEST		0.30	1	5	4	23.3	7.00			
TOTALS: AREA UA										
<b>Total Sum of Fenestration Area and UA (for heating system sizing calculations)</b>							798.8	239.63		

Per Table R303.1.3(5), default values of double glazed, lowE-b, argon filled, wood or vinyl or fiberglass frames of any frame type U=30



CENTERLINE  
 DESIGN  
 4737 37th AVE SW  
 SEATTLE  
 206.935.4684  
 www.Centerline-Design.com

Wu-Chang Residence  
 2956 72nd Ave SE Mercer Island

## CONTENTS

Energy Info

DRAWN BY

CRL

DATE

2.13.23

05

General Structural Notes (GSN's)

CRITERIA:

1. ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE INTERNATIONAL BUILDING CODE (IBC) WITH WASHINGTON STATE ADMINISTRATIVE CODE AMENDMENTS, 2018 EDITION.

2. DESIGN LOADING CRITERIA
RISK CATEGORY SBC TABLE 1604.5
ROOF SNOW LOAD
ROOF DEAD LOAD
RESIDENTIAL LIVE LOAD
DECK LIVE LOAD
ATTIC LIVE LOAD
FLOOR DEAD LOAD
DECK DEAD LOAD

EARTHQUAKE
SEISMIC DESIGN CATEGORY D
Ss = 1.56, S1 = 0.64, Sps = 1.17, Spv = 0.73
EQUIVALENT LATERAL FORCE PROCEDURE
WIND PRESSURES BASED ON LESS THAN 10 SQUARE FOOT TRIJUTORY AREAS NEAR WALL CORNERS OR ROOF EDGES

3. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS FOR BIDDING AND CONSTRUCTION.

4. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING, BOTH FOR VERTICAL LOADS AND LATERAL STABILITY, FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE DRAWINGS.

6. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO THOSE SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED.

7. ALL STRUCTURAL SYSTEMS COMPOSED OF COMPONENTS TO BE FIELD ERECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLIER.

8. SEISMIC BRACING AND/OR GRAVITY SUPPORT AND ANCHORAGE OF ALL MECHANICAL OR ELECTRICAL EQUIPMENT SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON, EXCEPT FOR ELEMENTS SPECIFICALLY SHOWN AND DETAILED ON THE STRUCTURAL DRAWINGS.

9. SHOP DRAWING REVIEW: SHOP DRAWINGS FOR TRUSSES SHALL BE SUBMITTED TO THE CONTRACTOR, ARCHITECT, AND ENGINEER OF RECORD FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS. DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD, AND THEREFORE MUST BE VERIFIED BY THE CONTRACTOR.

10. DEFERRED SUBMITTALS SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF WASHINGTON. THE COMPONENT DESIGNER SHALL BE A REGISTERED STRUCTURAL ENGINEER IF REQUIRED BY THE BUILDING OFFICIAL OF THE LOCAL JURISDICTION.

11. FOUNDATION NOTES: SUBGRADE PREPARATION INCLUDING DRAINAGE, EXCAVATION, COMPACTION, AND FILLING REQUIREMENTS, SHALL CONFORM STRICTLY WITH THE SPECIFICATIONS OR AS DIRECTED BY THE OWNER APPOINTED GEOTECHNICAL ENGINEER.

12. DRIVE PINS AND OTHER POWDER-ACTUATED FASTENERS SHALL BE ONE OF THE FOLLOWING INSTALLED IN STRICT ACCORDANCE WITH THE ICC-ES REPORTS INDICATED AND MANUFACTURER'S INSTRUCTIONS

13. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH ACI 318-19 CHAPTERS 20 AND 26 AND ACI 301. CONCRETE SHALL ATTAIN A 28-DAY STRENGTH OF Fc = 3,000 PSI, HOWEVER STRUCTURAL DESIGN ASSUMES A COMPRESSIVE STRENGTH OF 2,500 PSI TO OMIT SPECIAL INSPECTION REQUIREMENTS PER IBC 1705.3.

14. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, fy = 60,000 PSI. GRADE 60 REINFORCING BARS WHICH ARE TO BE WELDED SHALL CONFORM TO ASTM A706. REINFORCEMENT COMPLIING WITH A615/S151 MAY BE WELDED ONLY IF MATERIAL PROPERTY REPORTS INDICATING CONFORMANCE WITH WELDING PROCEDURES SPECIFIED IN A.W.S. D1.4 ARE SUBMITTED.

15. REINFORCING STEEL SHALL BE DETAILED (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH ACI 318-19 AND 318-14. LAP ALL CONTINUOUS REINFORCEMENT IN CONFORMANCE WITH "REINFORCEMENT SPACING AND DEVELOPMENT LENGTH SCHEDULE" OF 10D/5.1.

16. CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS: FOOTINGS AND OTHER UNFORMED SURFACES CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH

17. BONDING AGENT SHALL BE "MASTERCAMO ADH 326" BY BASF CORPORATION, OR EQUIVALENT, AND SHALL BE USED WHERE NEW CONCRETE IS PLACED AGAINST HARDENED CONCRETE.

IBC TABLE 1705.3 REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION
REQUIREMENT, VERIFICATION & INSPECTION, CONTINUOUS PERIOD, REF. STD., IBC REF.

\* EXCEPTIONS 2 PER IBC SECTION 1705.3 APPLIES TO CONCRETE WORK ON THIS PROJECT.

WOOD:
19. FRAMING LUMBER SHALL BE KILN DRIED OR MC-19, AND GRADED AND MARKED IN CONFORMANCE WITH W.C.L.I.B. STANDARD GRADING RULES FOR WEST COAST LUMBER NO. 17 OR W.W.P.A. WESTERN LUMBER GRADING RULES.

JOISTS & RAFTERS: DOUGLAS FIR NO. 2
MIN. BASIC DESIGN STRESS, Fb = 900 PSI, E = 1600 KSI
Fc = 1350 PSI, Ft = 575 PSI
BEAMS: DOUGLAS FIR NO. 1
MIN. BASIC DESIGN STRESS, Fb = 1000 PSI, E = 1700 KSI
Fc = 1500 PSI, Ft = 675 PSI
COLUMNS: DOUGLAS FIR NO. 1
MIN. BASIC DESIGN STRESS, Fb = 1000 PSI, E = 1700 KSI
Fc = 1500 PSI, Ft = 675 PSI

20. MANUFACTURED LUMBER SHALL BE AS MANUFACTURED BY TRUS JOIST OR APPROVED EQUAL. REQUESTS FOR APPROVAL AS EQUAL WILL REQUIRE SUBMITTAL OF ICC REPORT EQUIVALENT TO ESR-1387 FOR LAMINATED VENEER LUMBER (LVL), LAMINATED STRAND LUMBER (LSL), OR PARALLEL STRAND LUMBER (PSL).

21. GLUED LAMINATED MEMBERS SHALL BE FABRICATED IN CONFORMANCE WITH ASTM AND A.I.T.C. STANDARDS IN ACCORDANCE WITH SBC SECTION 2303.1.1. EACH MEMBER SHALL BEAR AN A.I.T.C. IDENTIFICATION MARK AND SHALL BE ACCOMPANIED BY AN A.I.T.C. CERTIFICATE OF CONFORMANCE.

22. PREFABRICATED CONNECTOR PLATE WOOD TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH ANS/TP 1-2007 AND IBC SECTION 2303.4 FOR THE SPANS AND CONDITIONS SHOWN ON THE DRAWINGS.

ROOF TRUSSES:
TOP CHORD LIVE LOAD
BOTTOM CHORD LIVE LOAD
TOP CHORD DEAD LOAD
BOTTOM CHORD DEAD LOAD
WIND UPLIFT (TOP CHORD)

13. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH ACI 318-19 CHAPTERS 20 AND 26 AND ACI 301. CONCRETE SHALL ATTAIN A 28-DAY STRENGTH OF Fc = 3,000 PSI, HOWEVER STRUCTURAL DESIGN ASSUMES A COMPRESSIVE STRENGTH OF 2,500 PSI TO OMIT SPECIAL INSPECTION REQUIREMENTS PER IBC 1705.3.

23. ROOF & WALL SHEATHING SHALL BE APA RATED, EXTERIOR OR EXPOSURE 1 PLYWOOD OR ORIENTED STRAND BOARD (OSB) IN CONFORMANCE WITH SBC SECTION 2303.1.6. SHEATHING SHALL BE MANUFACTURED UNDER THE PROVISIONS OF VOLUNTARY PRODUCT STANDARDS DOC P5 1-09, PS 2-10, OR APA PEP-108 PERFORMANCE STANDARDS AND POLICES FOR STRUCTURAL USE PANELS.

24. AT NON-SHEARWALL EXTERIOR WALLS, UNLESS OTHERWISE NOTED, WALL SHEATHING SHALL BE 1/2" (NOMINAL) WITH SPAN RATING OF 3/8" WITH 8d @ 6" oc PANEL NAILING (APPLIES TO ALL SHEATHING PANEL EDGES); AND 8d @ 12" oc TO INTERMEDIATE FRAMING.

25. ALL PRESSURE-TREATED (P-T) WOOD MEMBERS SPECIFIED ON THE DRAWINGS THAT OCCUR ABOVE GROUND AND CONTINUOUSLY PROTECTED FROM MOISTURE (INTERIOR LOCATIONS) SHALL BE PRESSURE-TREATED WITH DOT SODIUM BORATE (SBX) WITHOUT Na2SO3, AT LOCATIONS PERMANENTLY EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND.

26. TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED IN THEIR WOOD CONSTRUCTION CONNECTORS CATALOG NO. C-0-2017-18.

27. WOOD FRAMING NOTES: THE FOLLOWING SHALL APPLY UNLESS OTHERWISE NOTED ON THE DRAWINGS. A. ALL WOOD FRAMING DETAILS SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE SBC. MINIMUM NAILING SHALL CONFORM TO SBC TABLE 2304.9.1 OR CURRENT ICC-ES REPORT NER-272.

B. WALL FRAMING: TWO STUDS MINIMUM SHALL BE INSTALLED AT THE ENDS OF ALL WALLS, UNLESS NOTED OTHERWISE NOTED. INSTALL SOLID BLOCKING FOR WOOD COLUMN THROUGH FLOOR SPACES TO SUPPORTS BELOW.

C. FLOOR AND ROOF FRAMING: INSTALL SOLID BLOCKING AT ALL BEARING POINTS. TOENAIL JOISTS TO SUPPORTS WITH (2)16d NAILS. ATTACH TIMBER JOISTS TO FLUSH HEADERS OR BEAMS WITH SIMPSON METAL JOIST HANGERS IN ACCORDANCE WITH NOTES ABOVE.

D. NAILING: A MINIMUM NAIL DIAMETER AND LENGTH SHALL BE AS FOLLOWS: SHEATHING NAILS, FRAMING NAILS.

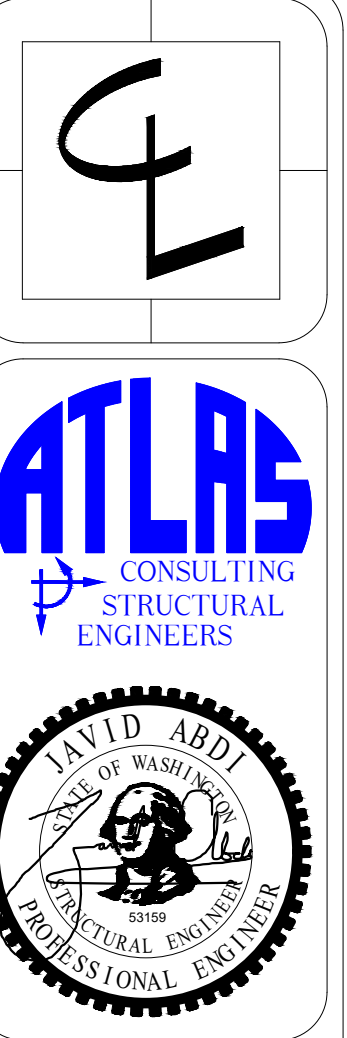
E. WOOD SHRINKAGE: THE PLUMBING, FIRE PROTECTION, DRAINAGE, MECHANICAL, ELECTRICAL, CLADDING, AND OTHER SYSTEMS INSTALLED WITHIN THE BUILDING SHALL BE DESIGNED AND CONSTRUCTED TO ACCOMMODATE VERTICAL SHRINKAGE TO ALL WOOD FRAMING LEVELS.

28. MANUFACTURED CONNECTOR PLATE WOOD TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH ANS/TP 1-2007 AND IBC SECTION 2303.4 FOR THE SPANS AND CONDITIONS SHOWN ON THE DRAWINGS.

Minimum Connectors and Fasteners for Wood Members per IBC 2018

DESCRIPTION OF BLDG. ELEMENT, NUMBER AND TYPE OF FASTENERS, SPACING & LOCATION. TABLE with columns for element description, fastener specifications, and spacing/location requirements.

DESCRIPTION OF BLDG. ELEMENT, NUMBER AND TYPE OF FASTENERS, SPACING & LOCATION. TABLE with columns for element description, fastener specifications, and spacing/location requirements.



Wu-Chang Residence
2956 72nd Ave SE - Mercer Island

CONTENTS
General Structural Notes

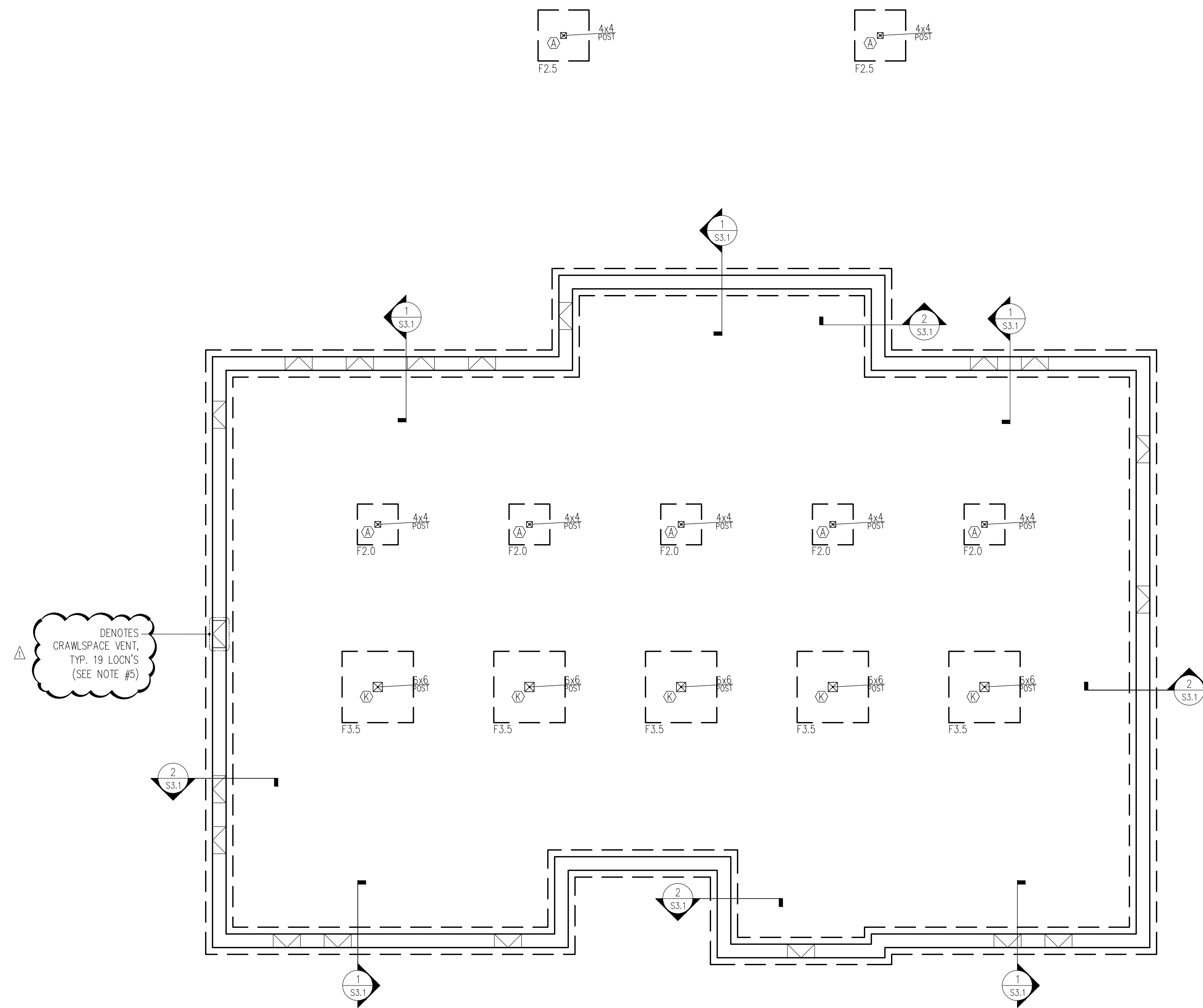
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JDA
DATE
03.05.24

S1.1

LEGEND

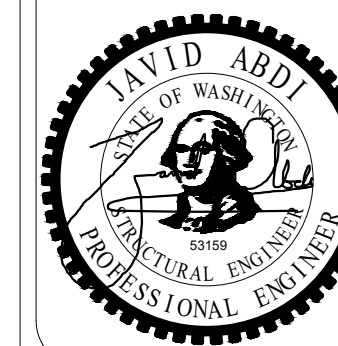
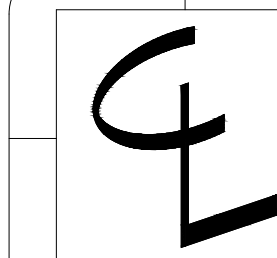
	CONCRETE FOOTING
	CONCRETE WALL
	POST
	SPREAD FOOTING PER 3/S3.1
	DENOTES TOP OF FOOTING ELEVATION (±)

CONNECTOR TABLE		
SIMPSON DESIGNATION	NOTES	
Ⓐ	PBS	POST BASE
Ⓑ	CCQ	COLUMN CAP
Ⓒ	AC4	COLUMN CAP
Ⓓ	JB210A	TOP FLANGE HANGER
Ⓔ	HGLT	HEAVY DUTY TOP FLANGE HANGER
Ⓕ	LUS410Z	TOP FLANGE HANGER
Ⓖ	ITS ~gr~ IUS	HANGER
Ⓗ	ITS ~gr~ IUS	INVERTED HANGER



- FOUNDATION PLAN NOTES**
- SOLID WALLS SHOWN IN PLAN ARE ABOVE FOUNDATION LEVEL (FROM FOUNDATION TO UNDERSIDE OF MAIN FLOOR FRAMING).
  - EXTERIOR STUDWALLS SHALL BE 2x6 STUDS @ 16" oc (MAX). SEE ARCHITECTURAL FOR INTERIOR STUDWALLS. SEE 6/6.2, 5/S6.2, AND 2/S6.2 FOR ALLOWABLE HOLES & NOTCHES IN STUDWALL STUDS AND TOP & BOTTOM PLATES.
  - SEE STRUCTURAL GENERAL NOTES #14 - 19 FOR CONCRETE AND CONCRETE REINFORCING REQUIREMENTS.
  - SEE GENERAL STRUCTURAL NOTE #11 FOR FOUNDATION CRITERIA.
  - CRAWL SPACE = 1260.5 SF, REQUIRED VENTING = 8.4 SF or 1210 SQ-IN, 64 SQ-IN/VENT = 19 VENTS

1 FOUNDATION PLAN  
S2.1 1/4" = 1'-0"



Wu-Chang Residence  
2956 72nd Ave SE - Mercer Island

CONTENTS

Foundation Plan

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DATE

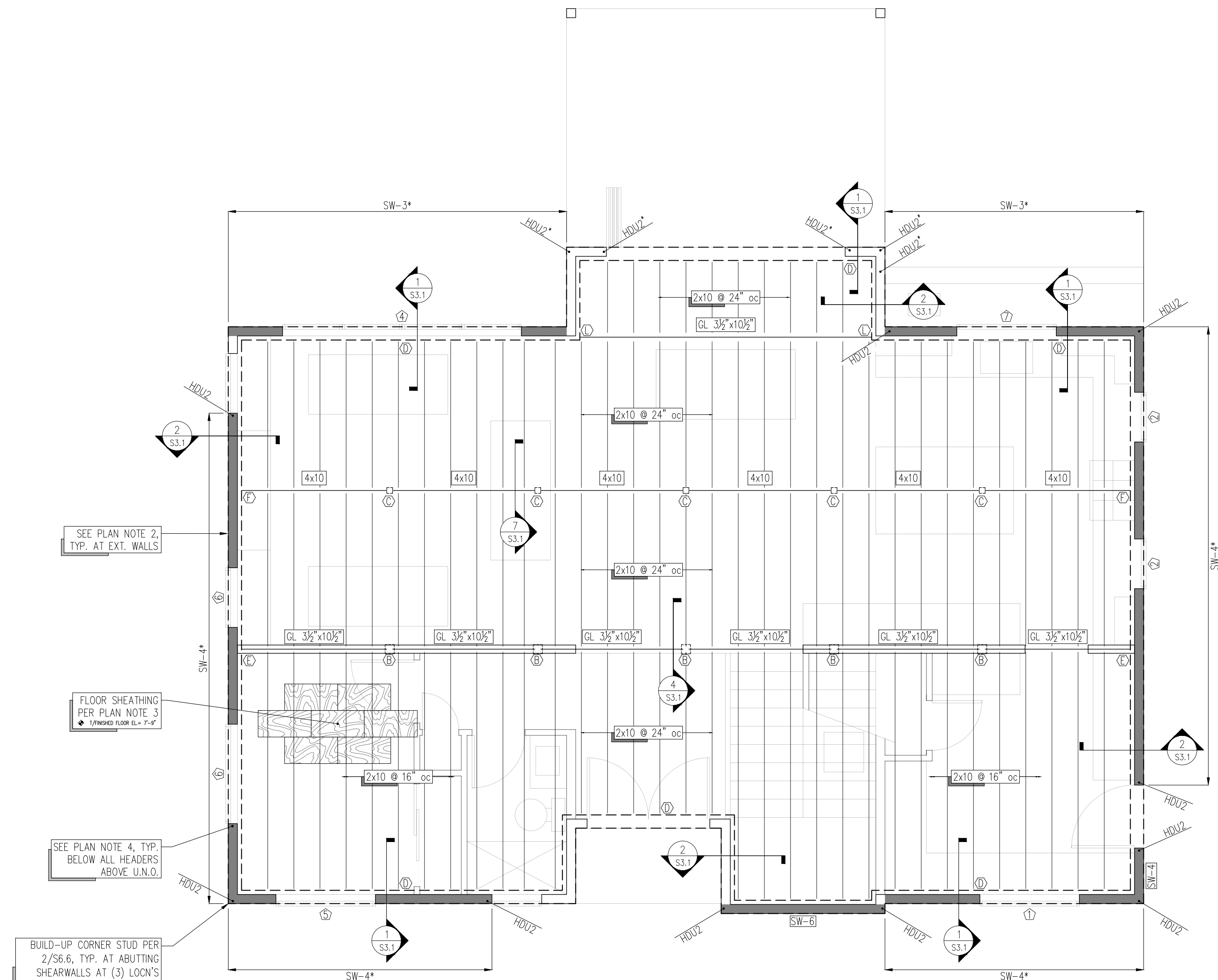
03.05.24  
05.28.24

S2.1

LEGEND

	CONCRETE WALL BELOW		DENOTES EXTENT OF SHEARWALL TYPE SW- PER 1/S6.5
	CONCRETE WALL		DENOTES STRAPPED SHEARWALL PER 7/S6.6, WITH ○ DENOTING STRAP PER SCHEDULE ABOVE & BELOW OPENING
	STRUCTURAL WOOD STUDWALL		DENOTES SHEARWALL TENSION TIE PER 4/S6.6 OR 8/S6.6
	POST BELOW		* - DENOTES TRANSFER TIE FROM TIE ABOVE * - DENOTES TIE AT TOP STEEL BEAM, SEE 6/S6.6
	POST		
	HEADER or BEAM		
	JOIST		

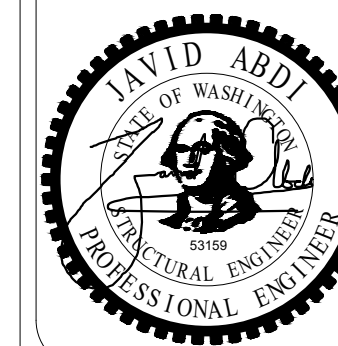
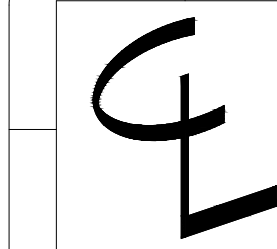
CONNECTOR TABLE		
SIMPSON DESIGNATION		NOTES
Ⓐ	PBS	POST BASE
Ⓑ	CCQ	COLUMN CAP
Ⓒ	AC4	COLUMN CAP
Ⓓ	JB210A	TOP FLANGE HANGER
Ⓔ	HGLT	HEAVY DUTY TOP FLANGE HANGER
Ⓕ	LUS410Z	TOP FLANGE HANGER
Ⓖ	ITS ~arr~ IUS	HANGER
Ⓗ	ITS ~arr~ IUS	INVERTED HANGER
Ⓘ	HHUSS.50/10	HANGER
Ⓚ	HUC412	CONCEALED FLANGE HANGER
Ⓛ	CBS	POST BASE
Ⓜ	BA3.56	TOP FLANGE HANGER
Ⓝ	LUS26	FACE MOUNT HANGER
Ⓟ	HU1.81/5	INVERTED HANGER
Ⓠ	HHUS46	INVERTED HANGER
Ⓡ	JB ~arr~ LUS	HANGER
Ⓢ	EPC6Z	END POST CAP



MAIN FLOOR FRAMING PLAN NOTES

- SOLID WALLS SHOWN IN PLAN ARE ABOVE MAIN FLOOR FRAMING ELEVATION (FROM MAIN FLOOR TO UNDERSIDE OF UPPER FLOOR). DASHED WALLS SHOWN IN PLAN ARE BELOW MAIN FLOOR FRAMING ELEVATION (FROM FOUNDATION TO UNDERSIDE OF MAIN FLOOR FRAMING)
- EXTERIOR STUDWALLS SHALL BE 2x6 STUDS @ 16" oc (MAX). SEE ARCHITECTURAL FOR INTERIOR STUDWALLS. SEE 6/6.2, 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, AND SHEAR WALLS w/ 10d @ 6" oc; AND AT ALL INTERMEDIATE SUPPORTS w/ 10d @ 12" oc (SEE 3/S6.1). 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/S6.2 AT NON-LOAD BEARING EXTERIOR WALLS, AND PER 6/S6.2 AT LOAD BEARING EXTERIOR WALLS

1 MAIN FLOOR FRAMING PLAN  
S2.2 1/4" = 1'-0"



Wu-Chang Residence  
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CONTENTS  
Main Floor  
Framing Plan

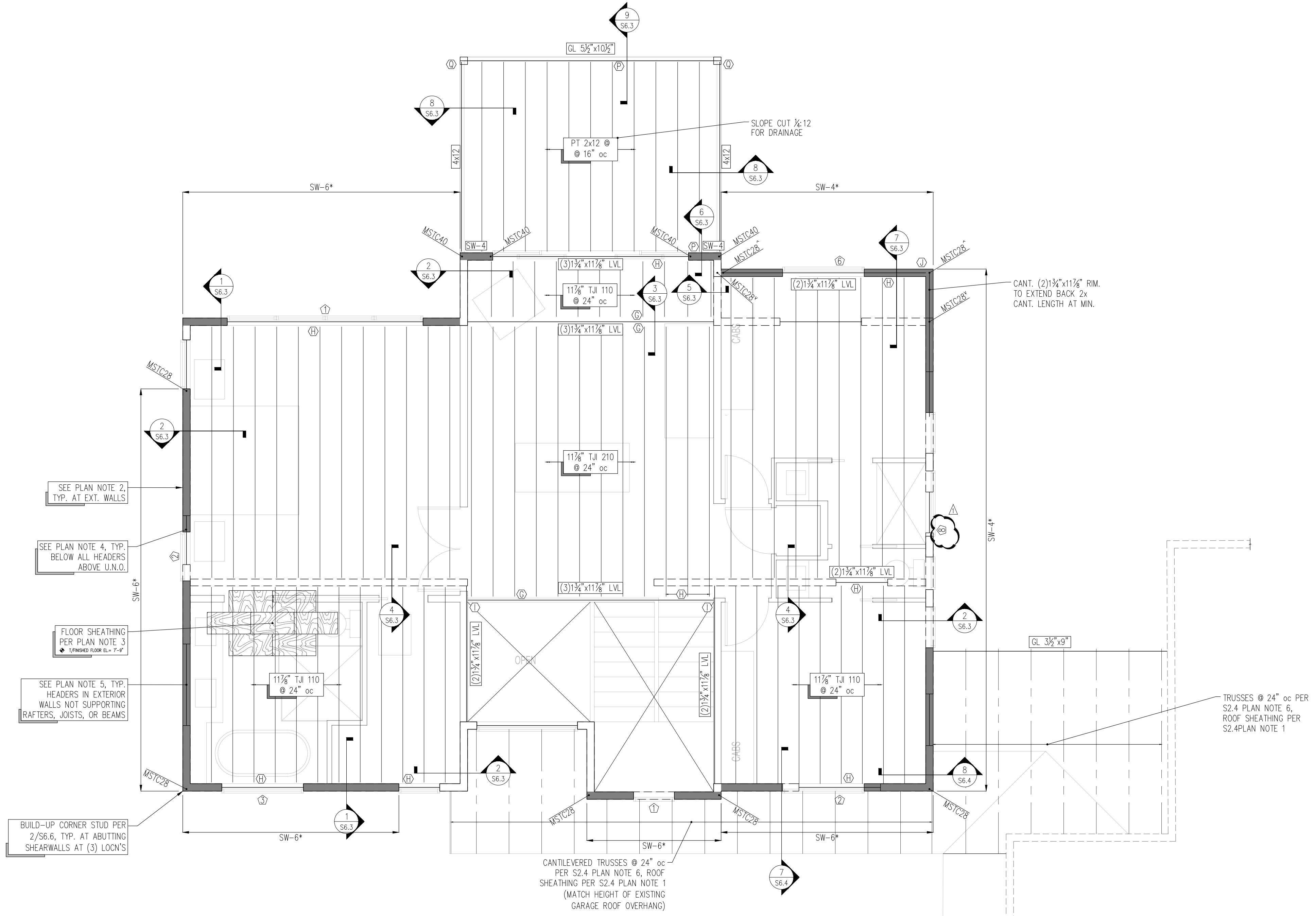
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DATE  
03.05.24

S2.2

**LEGEND**

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	STRUCTURAL WOOD STUDWALL		DENOTES STRAPPED SHEARWALL PER 7/S6.6, WITH * DENOTING STRAP PER SCHEDULE ABOVE & BELOW OPENING
	POST BELOW		DENOTES SHEARWALL TENSION TIE PER 4/S6.6 OR 8/S6.6
	POST		* - DENOTES TENSION TIE FROM THE ABOVE - DENOTES TIE AT TOP STEEL BEAM, SEE 6/S6.6
	HEADER OR BEAM		
	JOIST		

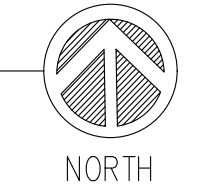
CONNECTOR TABLE		
SIMPSON DESIGNATION	NOTES	
Ⓐ	PBS	POST BASE
Ⓑ	CCQ	COLUMN CAP
Ⓒ	AC4	COLUMN CAP
Ⓓ	JB210A	TOP FLANGE HANGER
Ⓔ	HGLT	HEAVY DUTY TOP FLANGE HANGER
Ⓕ	LUS410Z	TOP FLANGE HANGER
Ⓖ	ITS ~or~ IUS	HANGER
Ⓗ	ITS ~or~ IUS	INVERTED HANGER
Ⓘ	HHUS.50/10	HANGER
Ⓛ	HUC412	CONCEALED FLANGE HANGER
Ⓚ	CBS	POST BASE
Ⓛ	BA3.56	TOP FLANGE HANGER
Ⓜ	LUS26	FACE MOUNT HANGER
Ⓝ	HU1.81/5	INVERTED HANGER
Ⓟ	HHUS46	INVERTED HANGER
Ⓠ	JB ~or~ LUS	HANGER
Ⓡ	EPC6Z	END POST CAP



**MAIN FLOOR FRAMING PLAN NOTES**

- SOLID WALLS SHOWN IN PLAN ARE ABOVE MAIN FLOOR FRAMING ELEVATION (FROM UPPER FLOOR TO UNDERSIDE OF ROOF). DASHED WALLS SHOWN IN PLAN ARE BELOW UPPER FLOOR FRAMING ELEVATION (FROM MAIN FLOOR TO UNDERSIDE OF UPPER FLOOR FRAMING)
- EXTERIOR STUDWALLS SHALL BE 2x6 STUDS @ 16" oc (MAX). SEE ARCHITECTURAL FOR INTERIOR STUDWALLS. SEE 6/6.2, 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, AND SHEAR WALLS w/ 10d @ 6" oc; AND AT ALL INTERMEDIATE SUPPORTS w/ 10d @ 12" oc (SEE 3/S6.1). 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/S6.2 AT NON-LOAD BEARING EXTERIOR WALLS, AND PER 6/S6.2 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.

1 UPPER FLOOR FRAMING PLAN  
S2.3 1/4" = 1'-0"



**Wu-Chang Residence**  
2956 72nd Ave SE - Mercer Island

**CONTENTS**  
Upper Floor Framing Plan

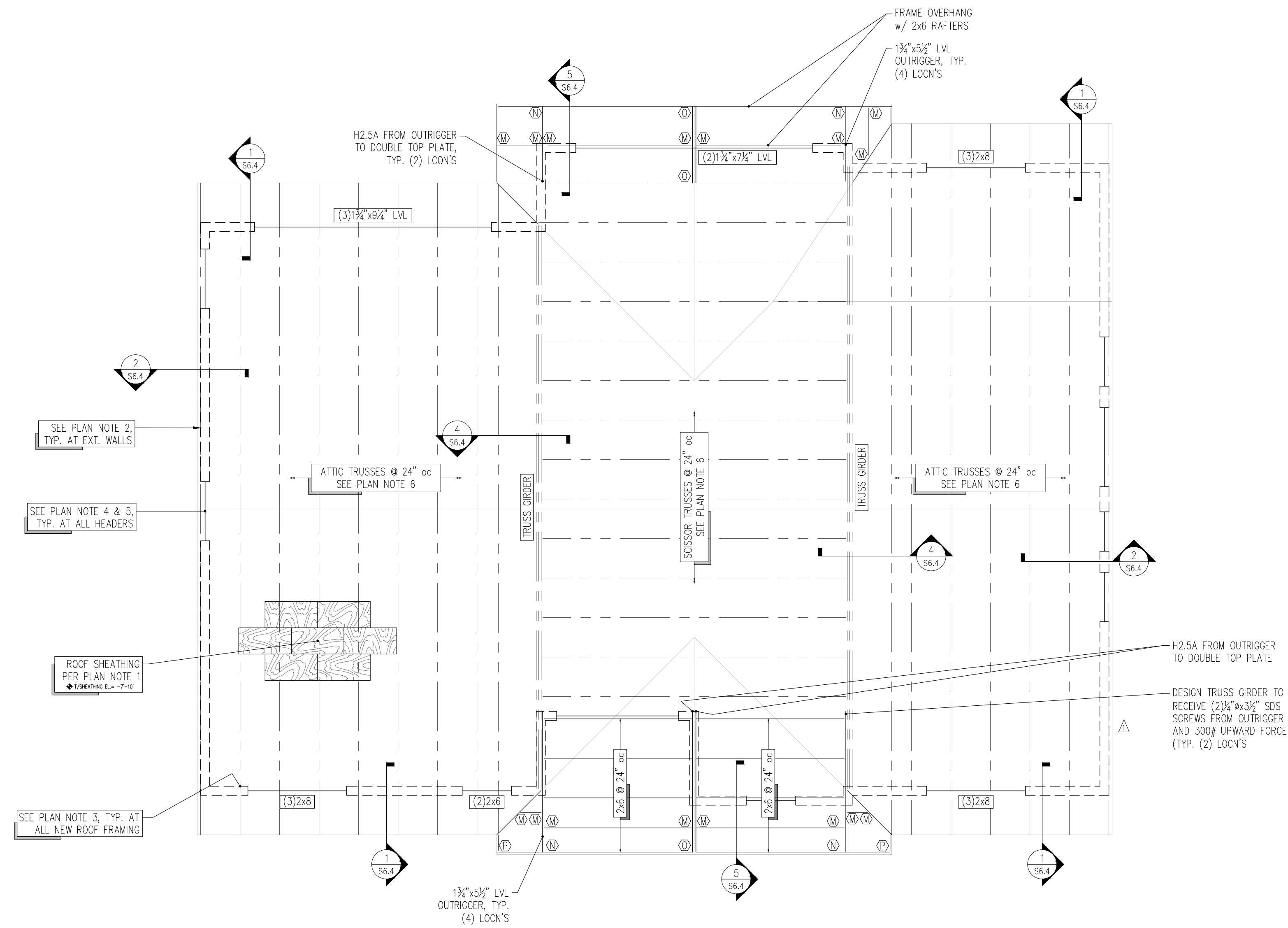
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**DATE**  
03.05.24  
05.28.24

**S2.3**

LEGEND

---	STRUCTURAL WOOD STUDWALL BELOW
□	POST BELOW
—	HEADER or BEAM
—	CONNECTOR PLATE
—	WOOD TRUSS
—	ROOF FRAMING

CONNECTOR TABLE		
SIMPSON DESIGNATION	NOTES	
△	PBS	POST BASE
⊕	CCQ	COLUMN CAP
⊖	AC4	COLUMN CAP
⊕	JB210A	TOP FLANGE HANGER
⊖	HGLT	HEAVY DUTY TOP FLANGE HANGER
⊕	LUS410Z	TOP FLANGE HANGER
⊖	ITS ~or~ IUS	HANGER
⊕	ITS ~or~ IUS	INVERTED HANGER
⊖	HHUS.50/10	HANGER
⊕	HUC412	CONCEALED FLANGE HANGER
⊖	CBS	POST BASE
⊕	BA3.56	TOP FLANGE HANGER
⊖	LUS26	FACE MOUNT HANGER
⊕	HU1.81/5	INVERTED HANGER
⊖	HHUS46	INVERTED HANGER
⊕	JB ~or~ LUS	HANGER
⊖	EPC6Z	END POST CAP



- ROOF FRAMING PLAN NOTES**
1. ROOF SHEATHING SHALL CONSIST OF 5/8" SHEATHING (PANEL SPAN RATING 32/16) NAILED AT ALL FRAMED PANEL EDGES, DIAPHRAGM BOUNDARIES, 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.
  3. PROVIDE H2.5A HURRICANE TIES AT EACH END OF ALL ROOF FRAMING.
  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 #9, 10, AND 22 FOR CONNECTOR PLATE ROOF TRUSS REQUIREMENTS.

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



Wu-Chang Residence  
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CONTENTS  
Roof Framing Plan

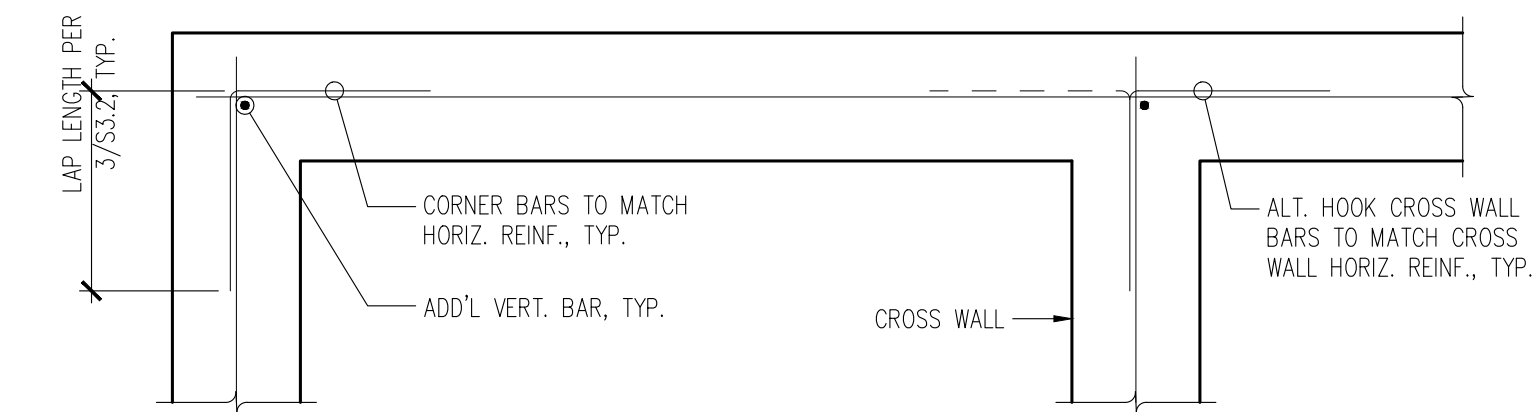
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05.28.24

S2.4

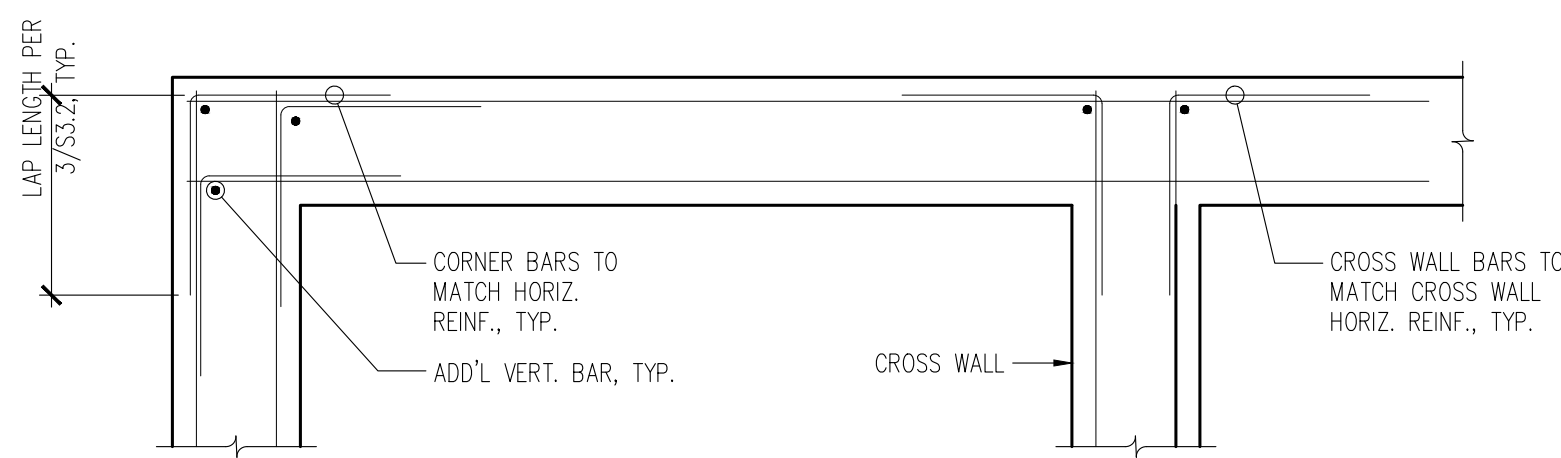
f <sub>c</sub> 3000 psi	MISCELLANEOUS BARS		TOP BARS		HOOKED BARS	
	BAR SIZE	Ld	SPLICE	Ld		SPLICE
f <sub>c</sub> = 3000 psi	#3	17"	23"	22"	29"	9"
	#4	22"	29"	29"	38"	11"
	#5	28"	37"	36"	47"	14"
	#6	33"	43"	43"	56"	17"
	BAR SIZE	Ld	SPLICE	Ld	SPLICE	Ldh
f <sub>c</sub> = 4000 psi	#3	15"	20"	19"	25"	8"
	#4	19"	25"	25"	33"	10"
	#5	24"	32"	31"	41"	12"
	#6	29"	38"	37"	49"	15"
	BAR SIZE	Ld	SPLICE	Ld	SPLICE	Ldh
f <sub>c</sub> = 5000 psi	#3	13"	17"	17"	23"	7"
	#4	17"	23"	23"	30"	9"
	#5	22"	29"	28"	37"	11"
	#6	26"	34"	34"	45"	13"
	BAR SIZE	Ld	SPLICE	Ld	SPLICE	Ldh
f <sub>c</sub> = 6000 psi	#3	12"	16"	16"	21"	6"
	#4	16"	21"	21"	28"	8"
	#5	20"	26"	26"	34"	10"
	#6	24"	32"	31"	41"	12"
	BAR SIZE	Ld	SPLICE	Ld	SPLICE	Ldh

- NOTES
- VALUES FOR UNCOATED REINFORCING AND NORMAL WEIGHT CONCRETE WITH CLEAR SPACING > d<sub>b</sub>, CLEAR COVER > d<sub>b</sub>, AND MINIMUM STIRRUPS OR TIES THROUGHOUT Ld OR CLEAR SPACING > 2d<sub>b</sub> AND CLEAR COVER > d<sub>b</sub> DEVELOP ALL REINFORCING IN STRUCTURAL SLABS WITH MINIMUM DEVELOPMENT LENGTH Ld Ldh = DEVELOPMENT LENGTH OF BAR WITH STANDARD HOOK
  - TOP BAR = HORIZONTAL BAR WITH MORE THAN 12" OF FRESH CONCRETE BELOW (EXCLUDING WALL HORIZONTAL REINFORCING) OR AS NOTED ON DOCUMENTS AS TOP BAR
  - ALL TABULATED VALUES ARE IN INCHES

9 CONCRETE REINFORCING DEVELOPMENT AND SPLICE LENGTH TABLES  
S3.1 N/A

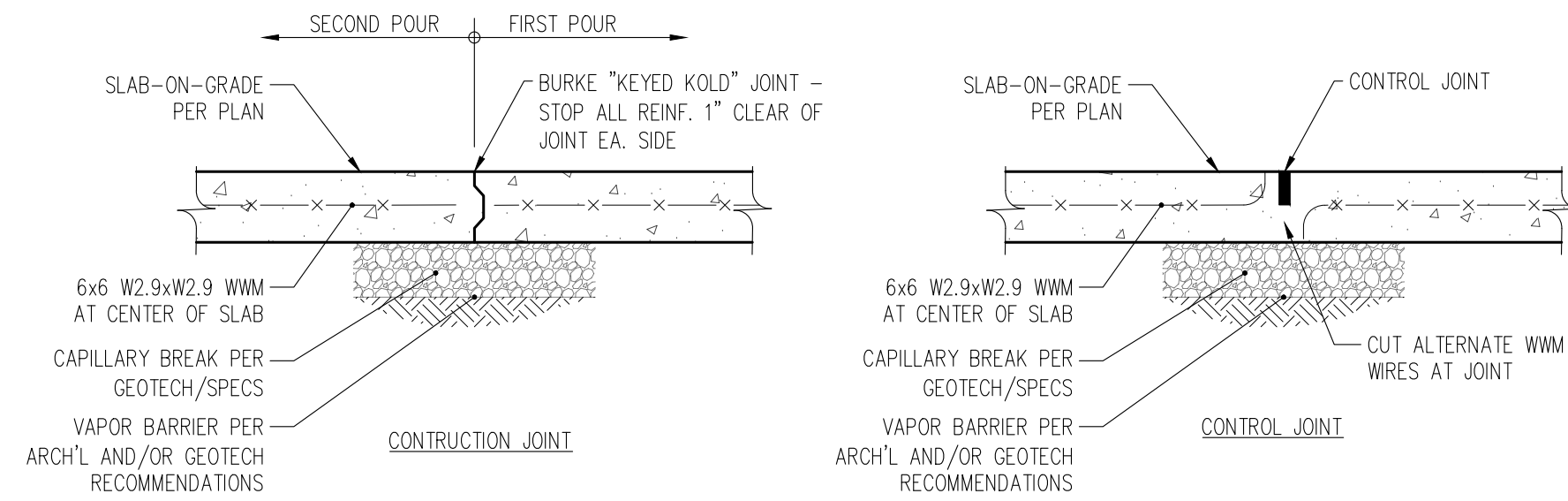


PLAN SINGLE CURTAIN



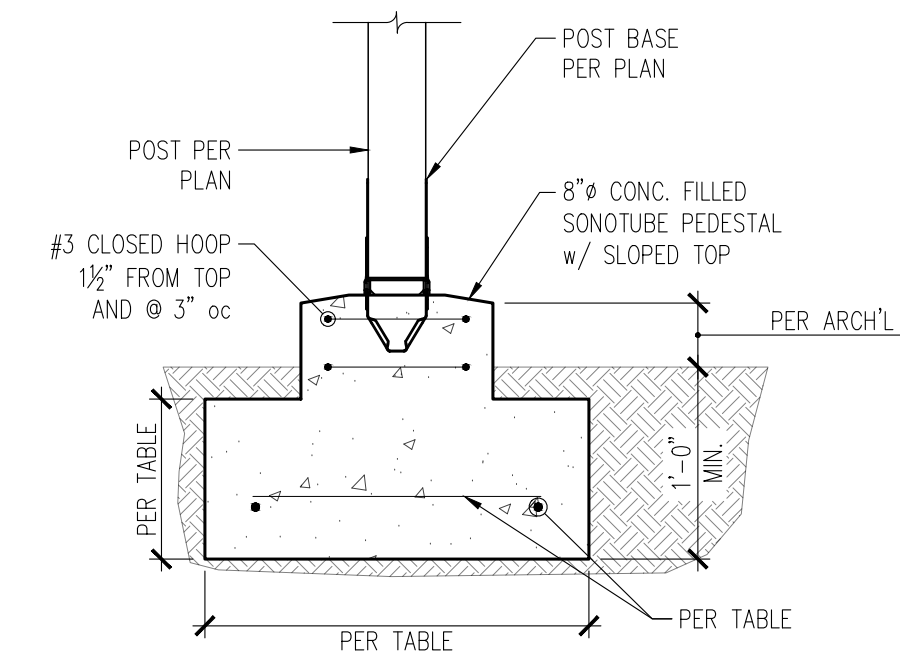
PLAN DOUBLE CURTAIN

8 WALL CORNER REINFORCING  
S3.1 N/A

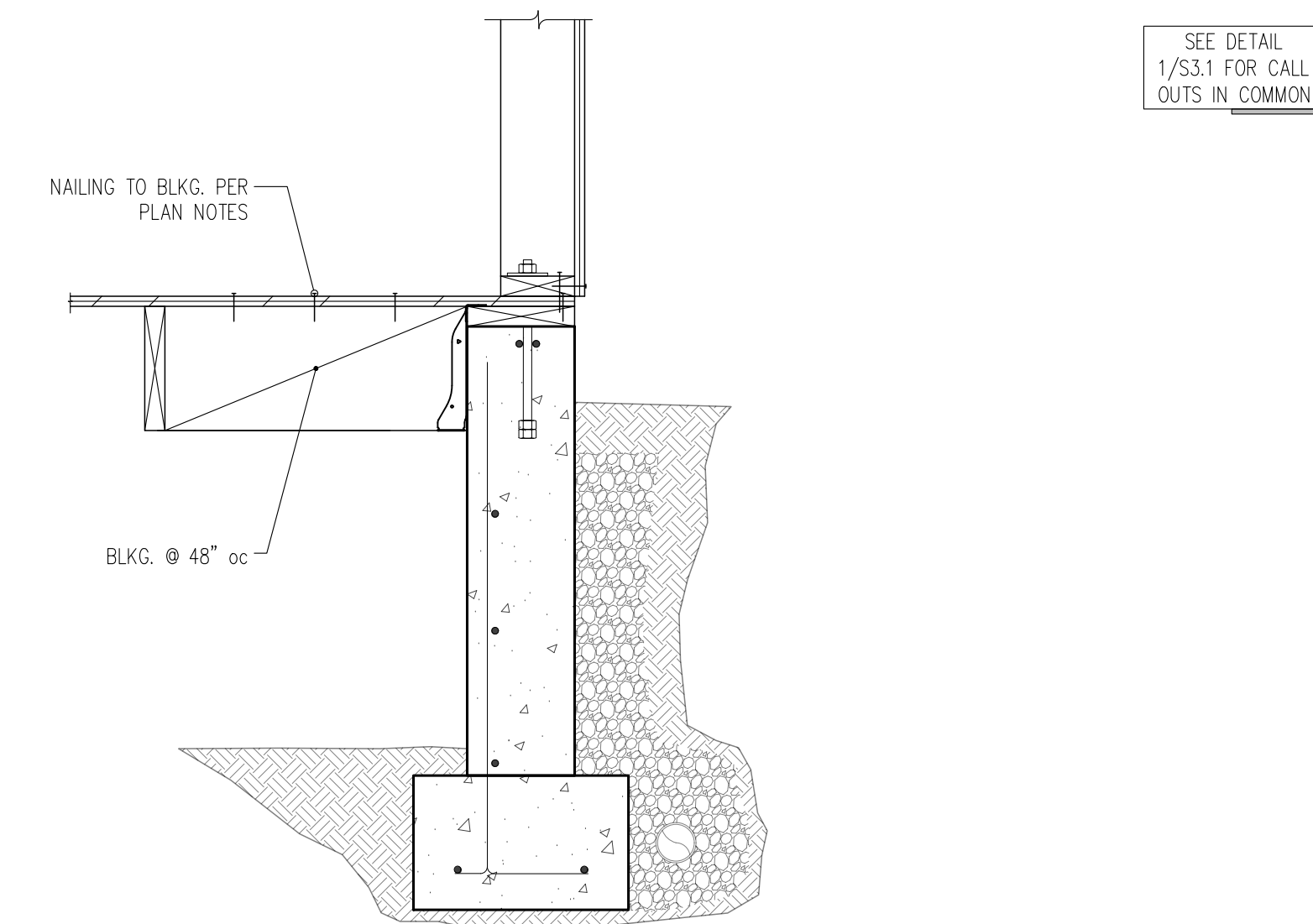


4 TYPICAL SLAB-ON-GRADE JOINTING  
S3.1 N/A

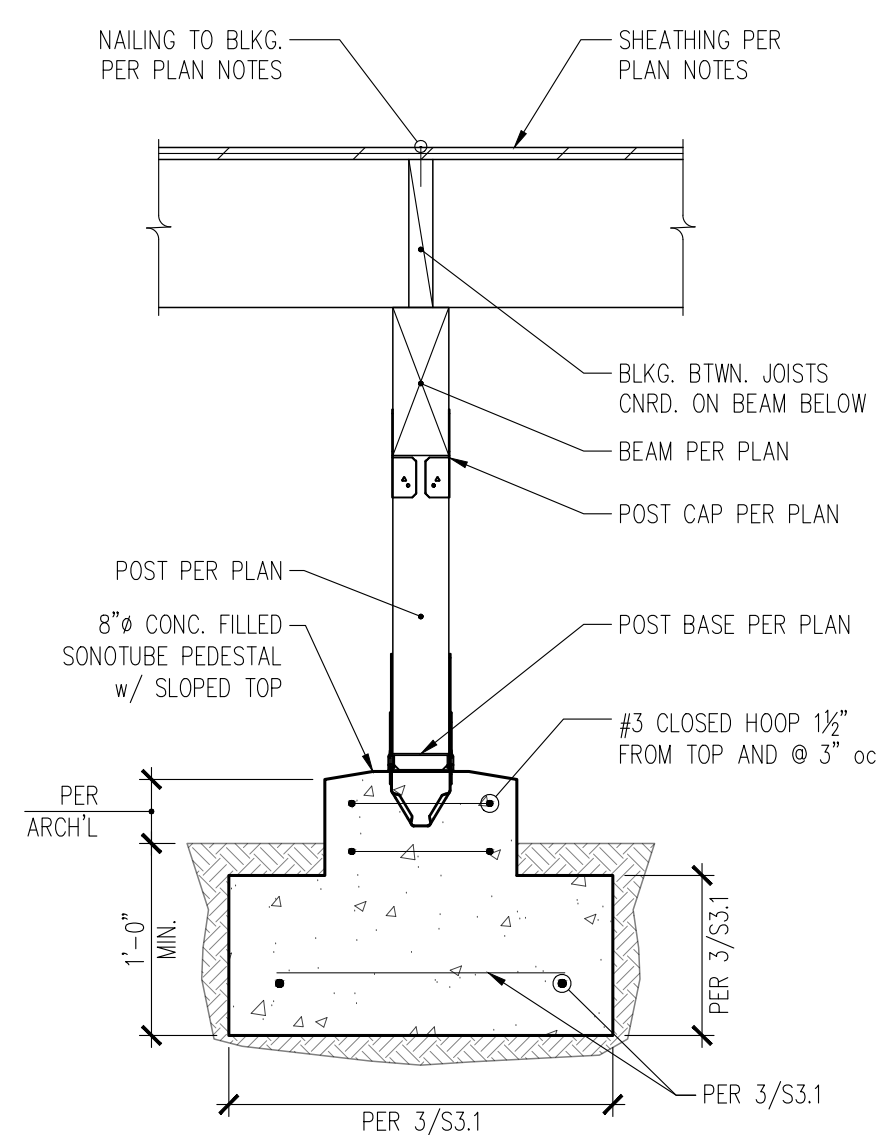
FTG. MARK	DIMENSIONS			REINFORCING	
	LENGTH	WIDTH	DEPTH	SHORT	LONG
F1.5	1'-6"	1'-6"	10"	(2)#4	(2)#4
F2.0	2'-0"	2'-0"	10"	(2)#4	(2)#4
F3.5	3'-6"	3'-6"	10"	(4)#4	(4)#4



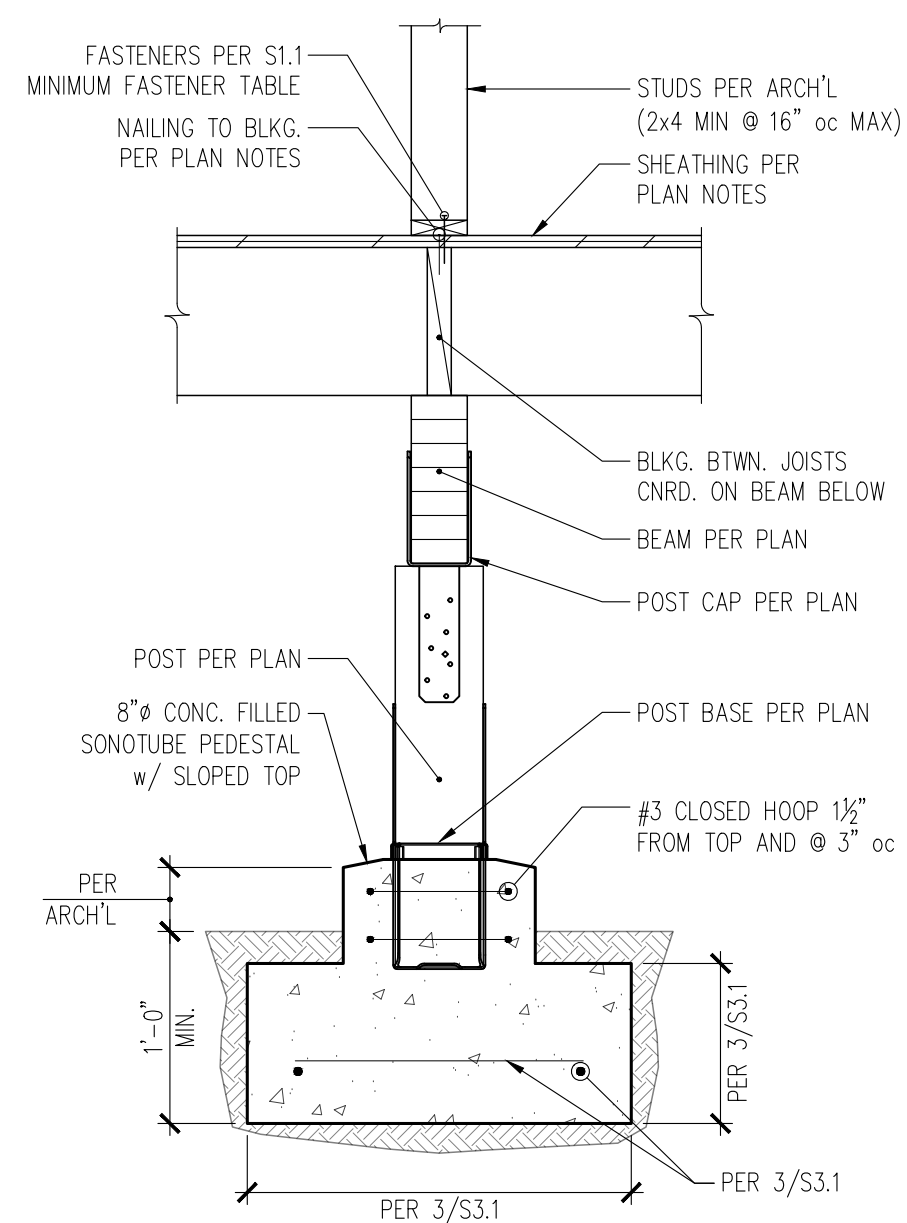
3 SPREAD FOOTING  
S3.1 1" = 1'-0"



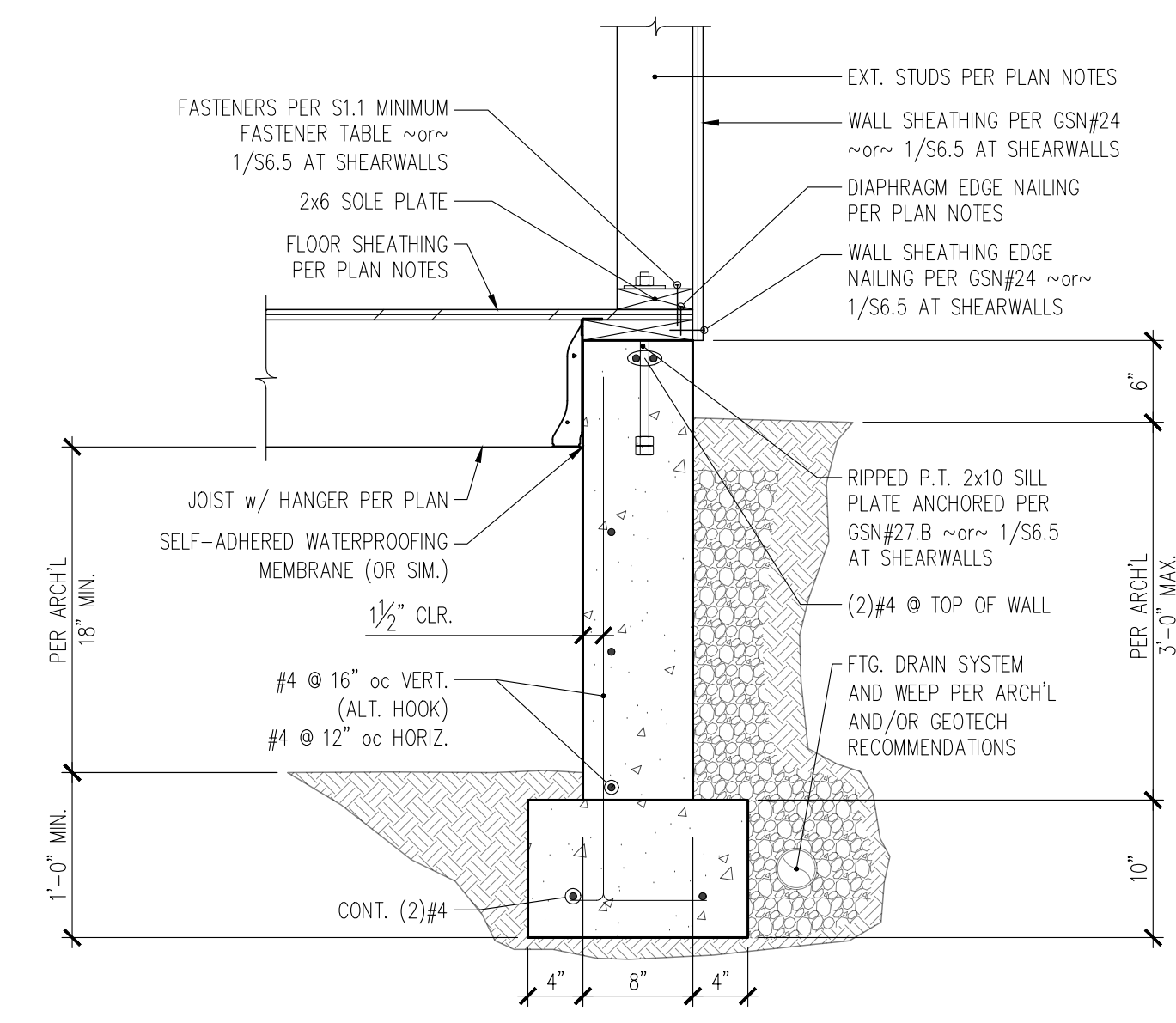
2 SECTION AT NEW FOUNDATION WALL AND PARALLEL JOISTS  
S3.1 1" = 1'-0"



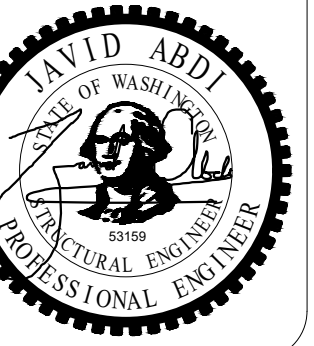
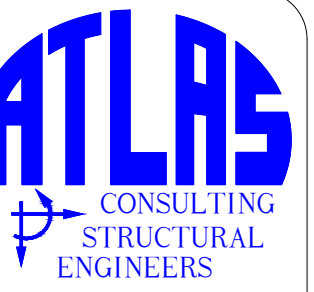
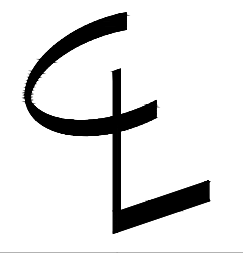
7 SECTION THROUGH CRAWLSPACE BEAM AND POST  
S3.1 NTS



4 SECTION THROUGH CRAWLSPACE BEAM AND POST  
S3.1 NTS



1 SECTION AT NEW FOUNDATION WALL AND PERPENDICULAR JOISTS  
S3.1 1" = 1'-0"

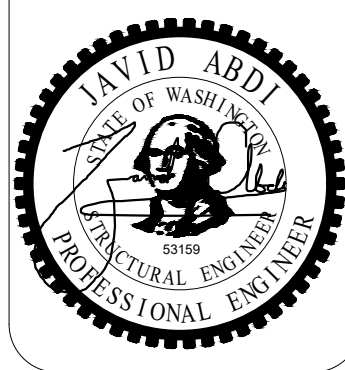
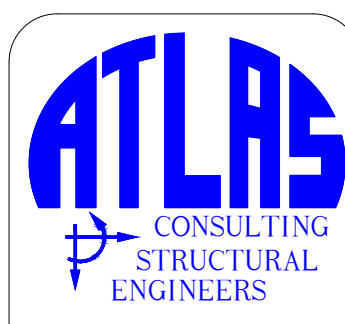
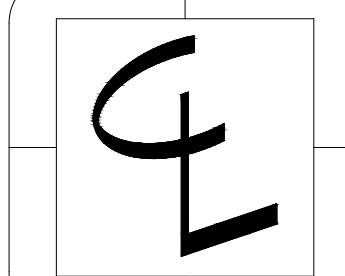


Wu-Chang Residence  
2956 72nd Ave SE - Mercer Island

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Foundation & Main Floor Details

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S3.1

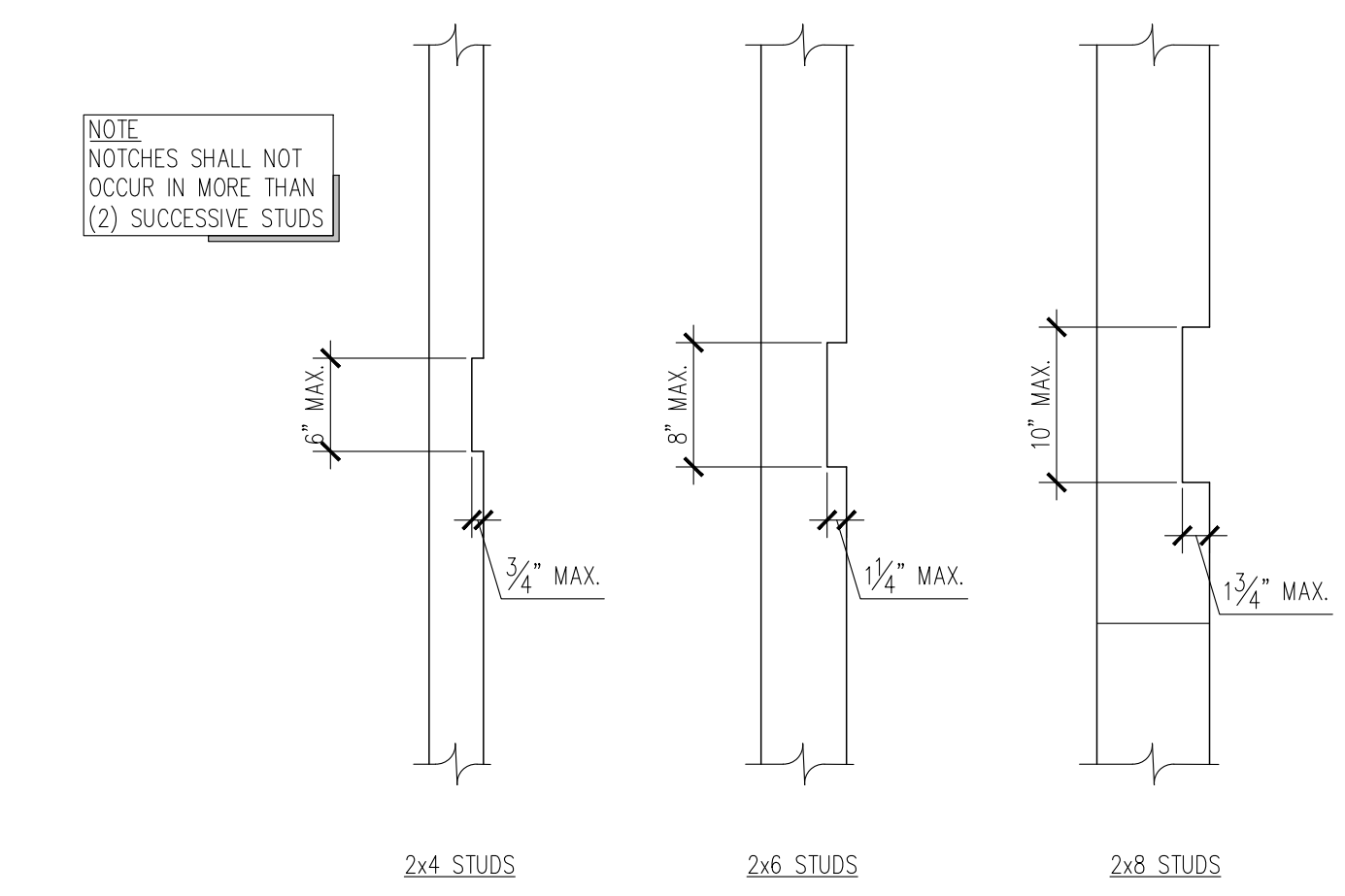


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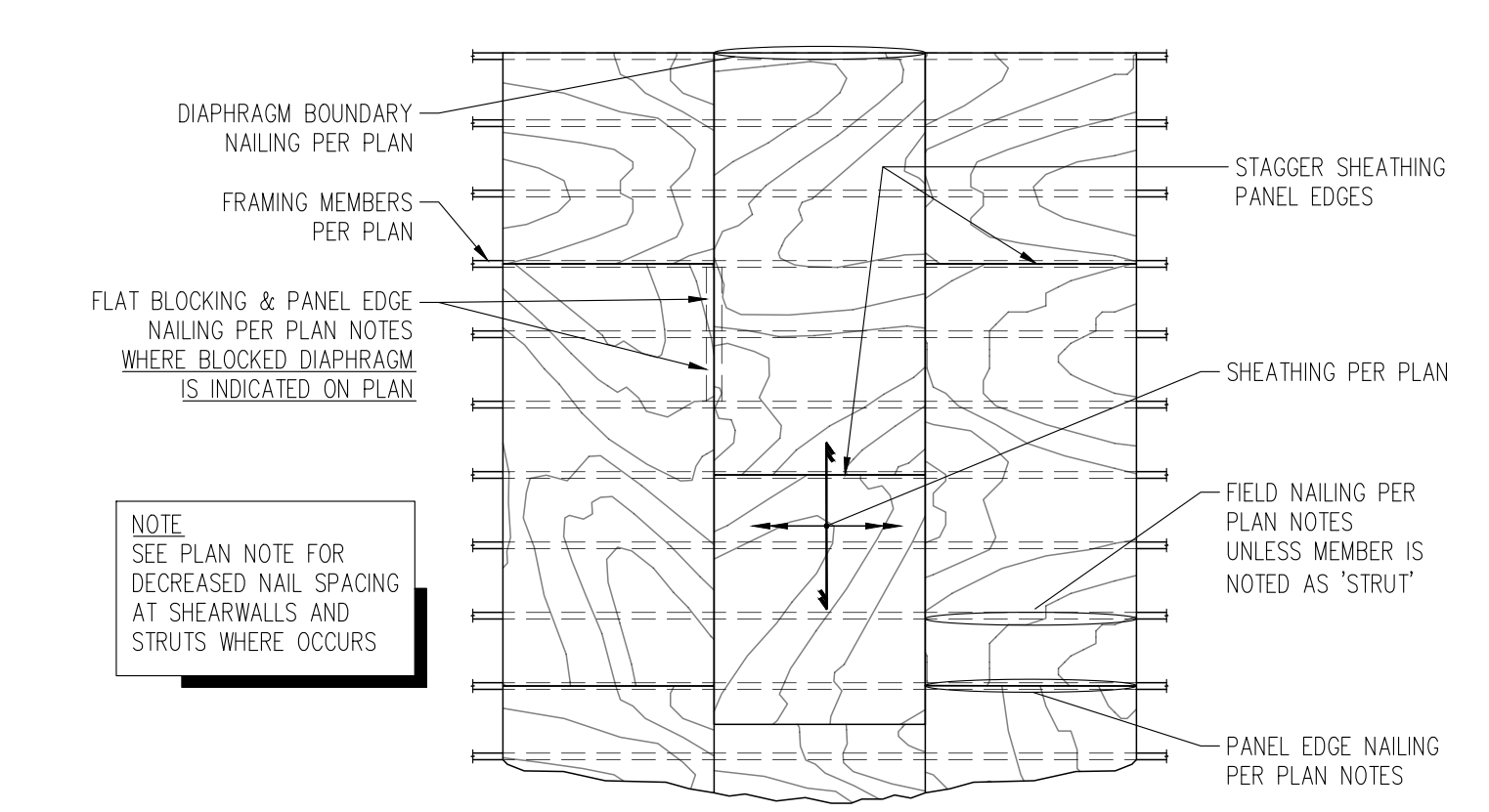
CONTENTS  
Typical Framing  
Details

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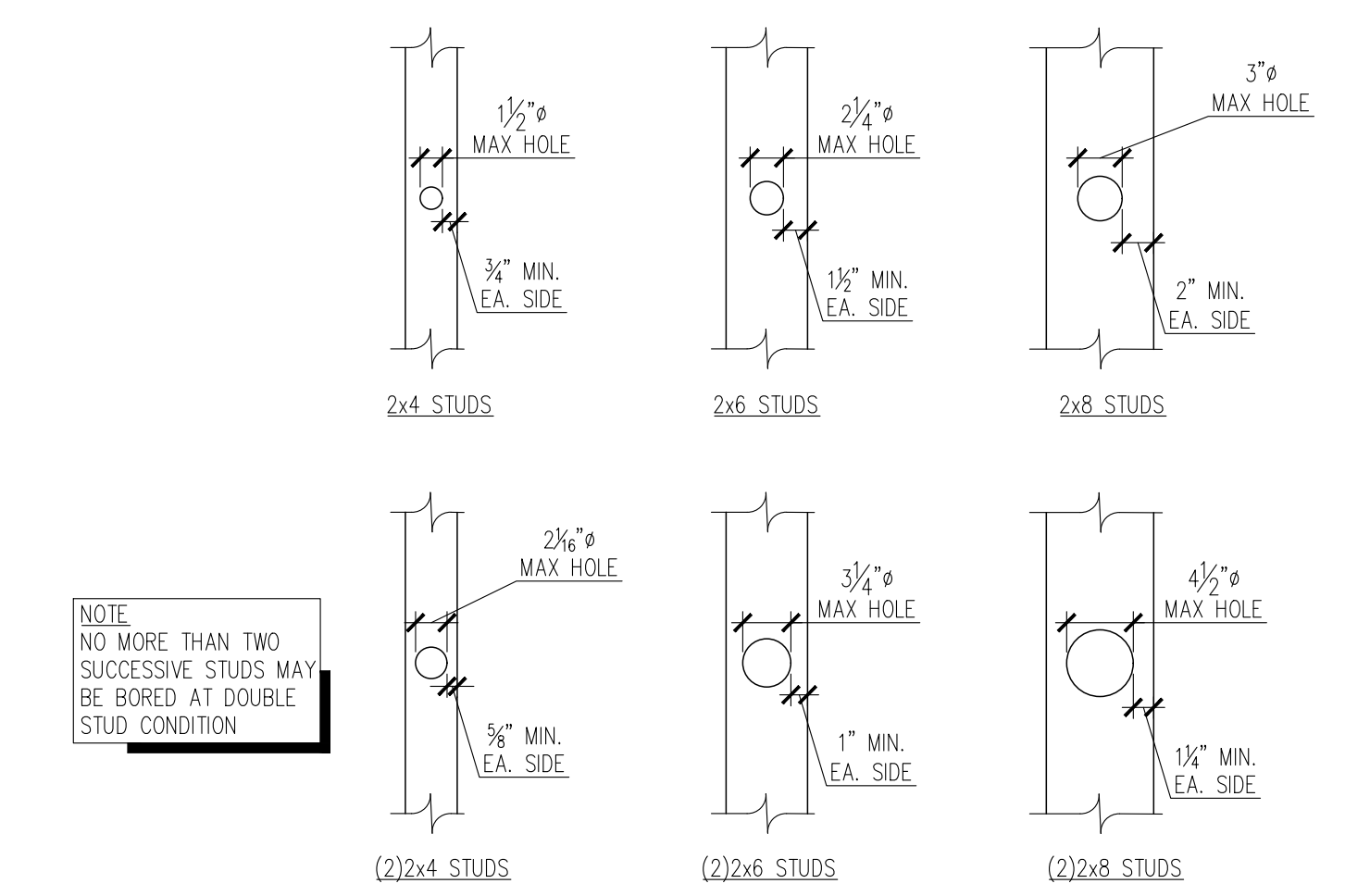
S6.1



6 ALLOWABLE HOLES IN STUDWALL STUDS  
S6.1 NTS



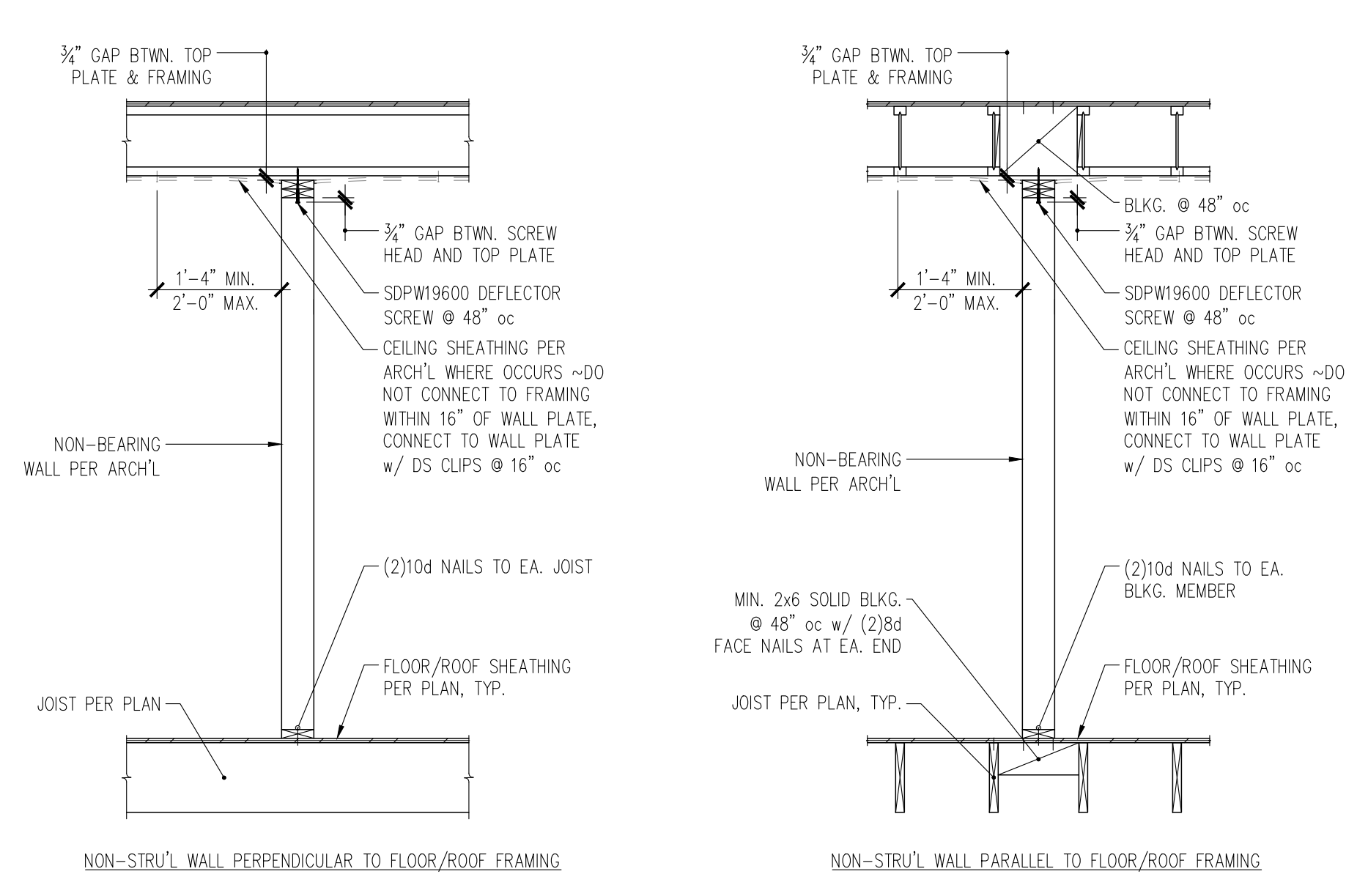
3 TYPICAL DIAPHRAGM NAILING  
S6.1 NTS



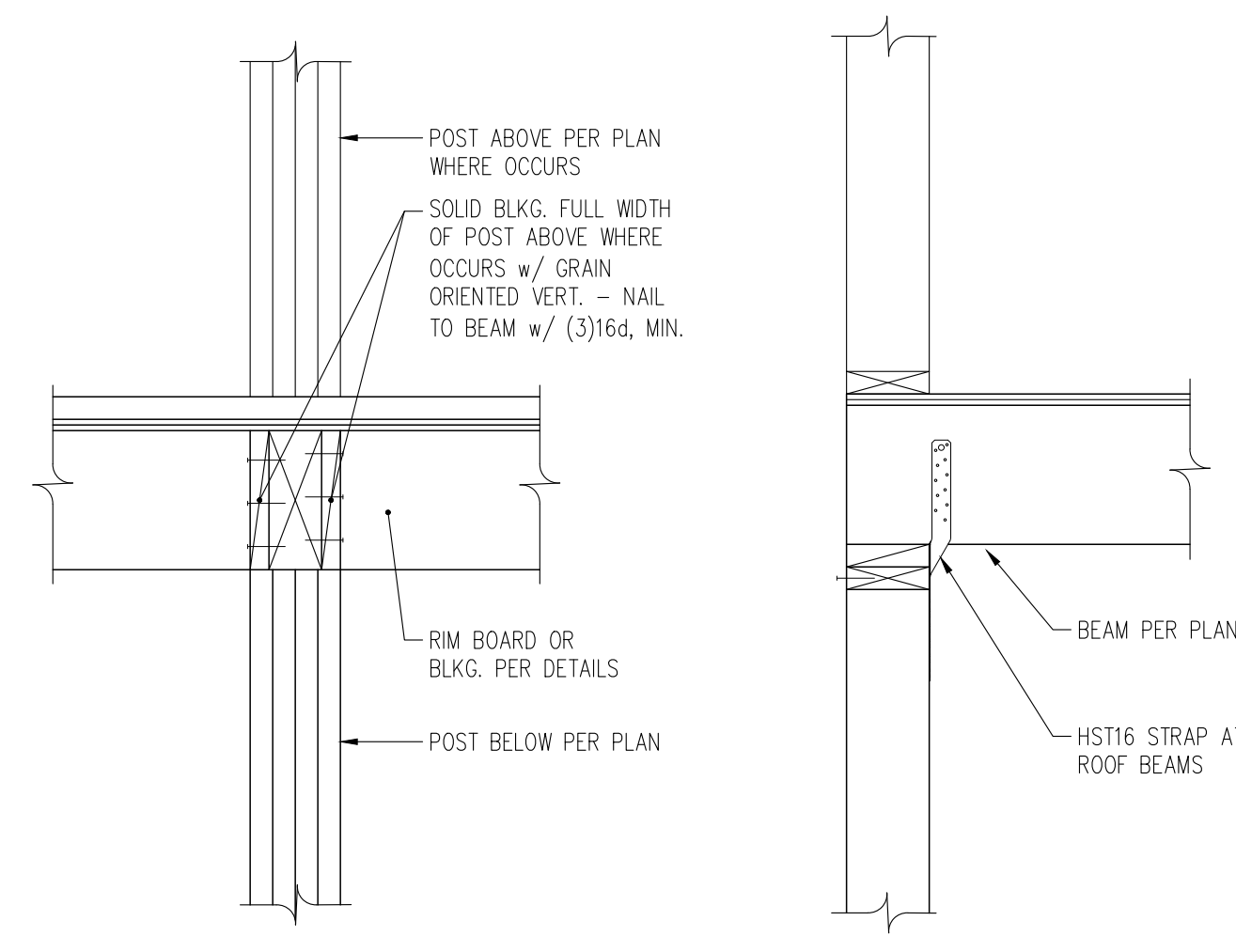
5 ALLOWABLE HOLES IN STUDWALL STUDS  
S6.1 NTS

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

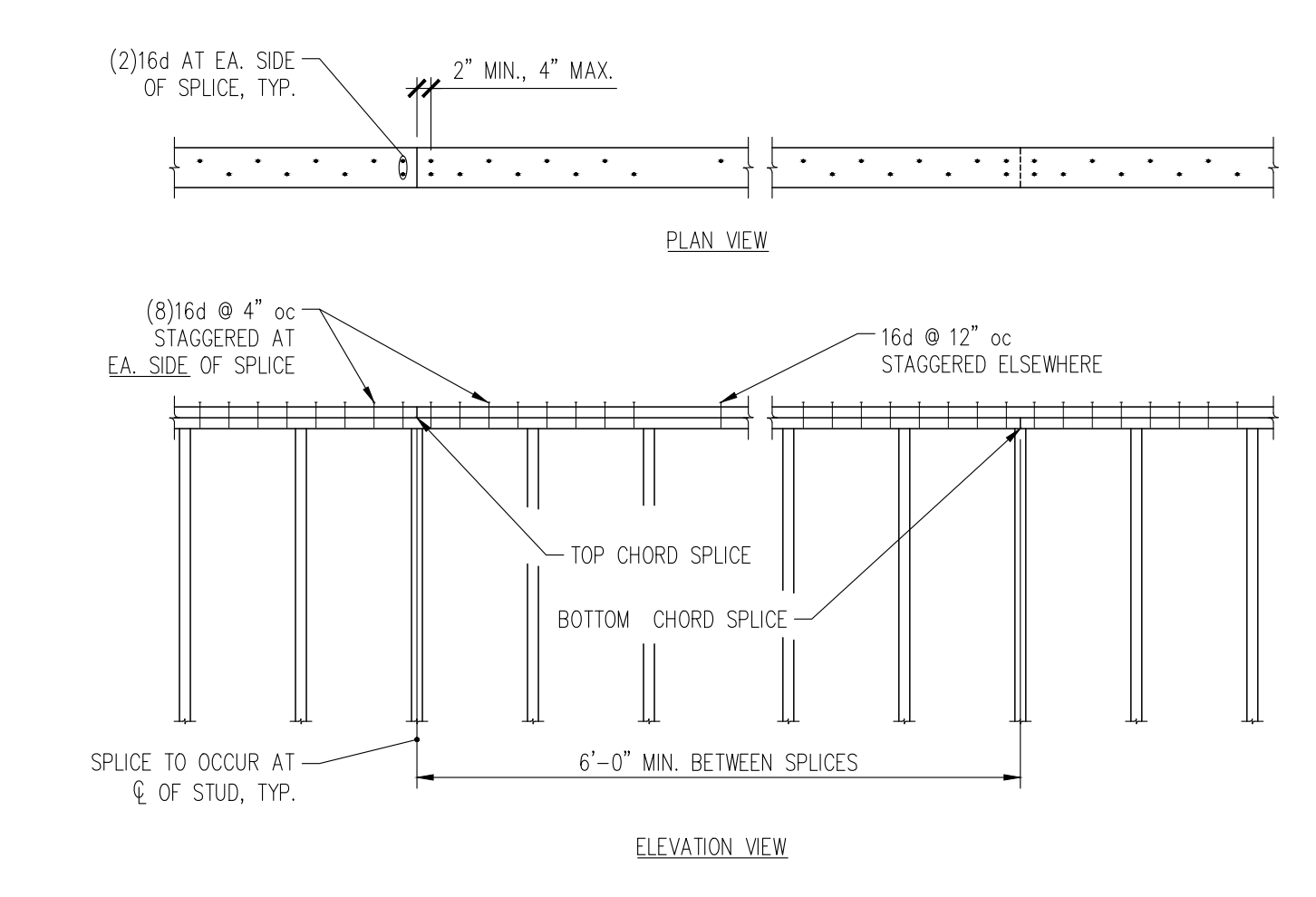
2 ALLOWABLE HOLES THROUGH TOP PLATES  
S6.1 NTS



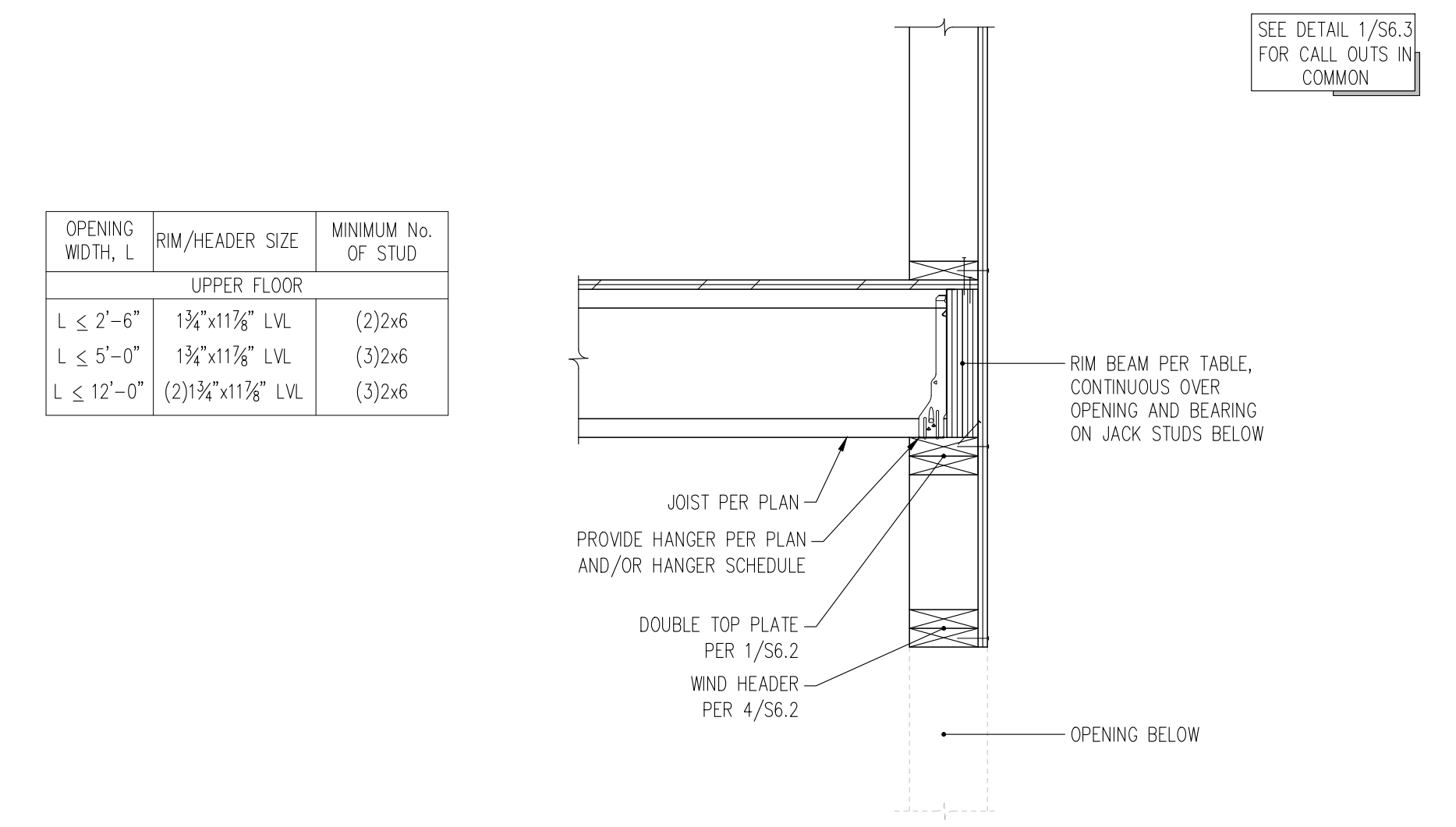
7 CONNECTION OF NON-STRUC'L PARTITION WALL TO STRUCTURE  
S6.1 NTS



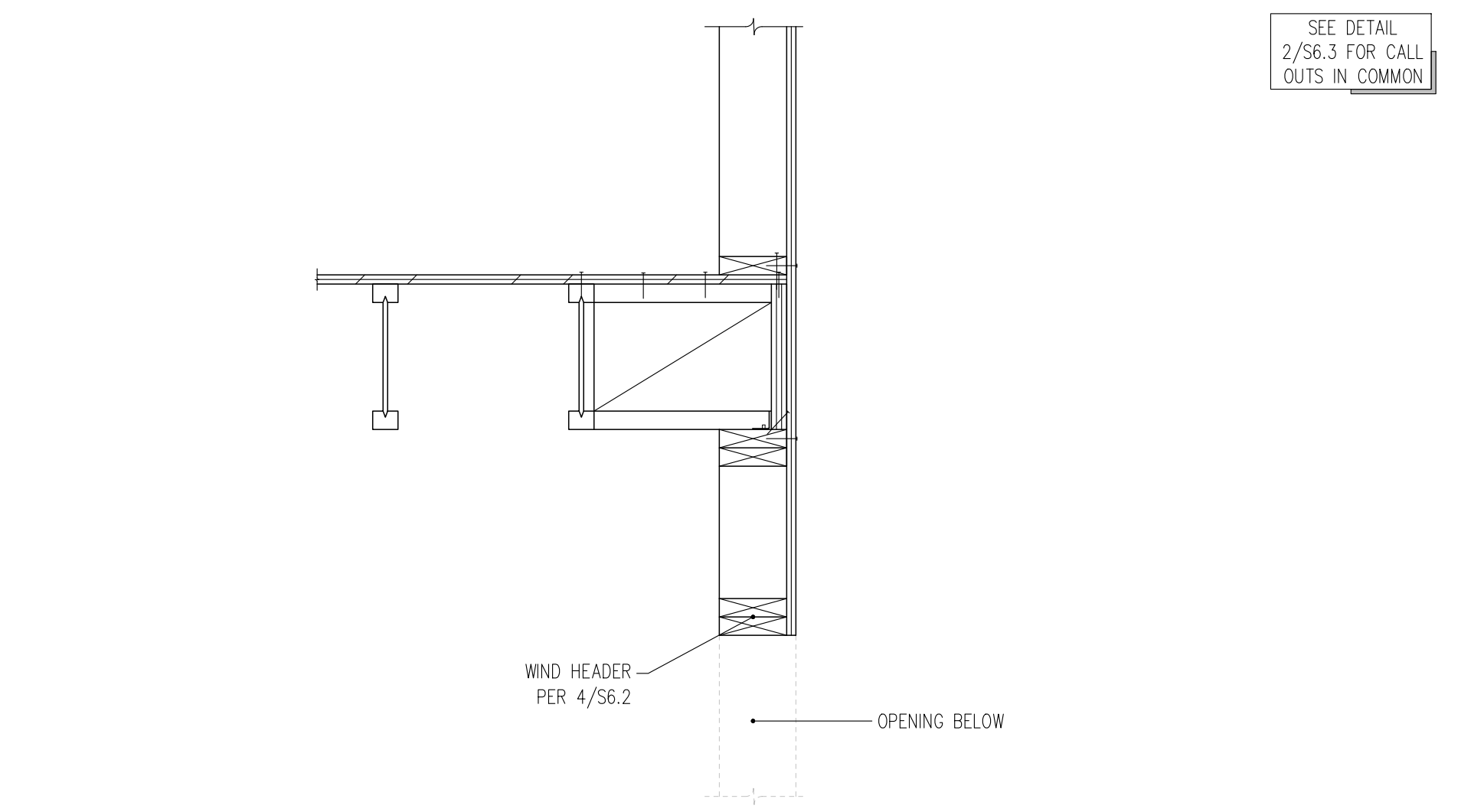
4 TYPICAL BEAM PERPENDICULAR TO WALL  
S6.1 NTS



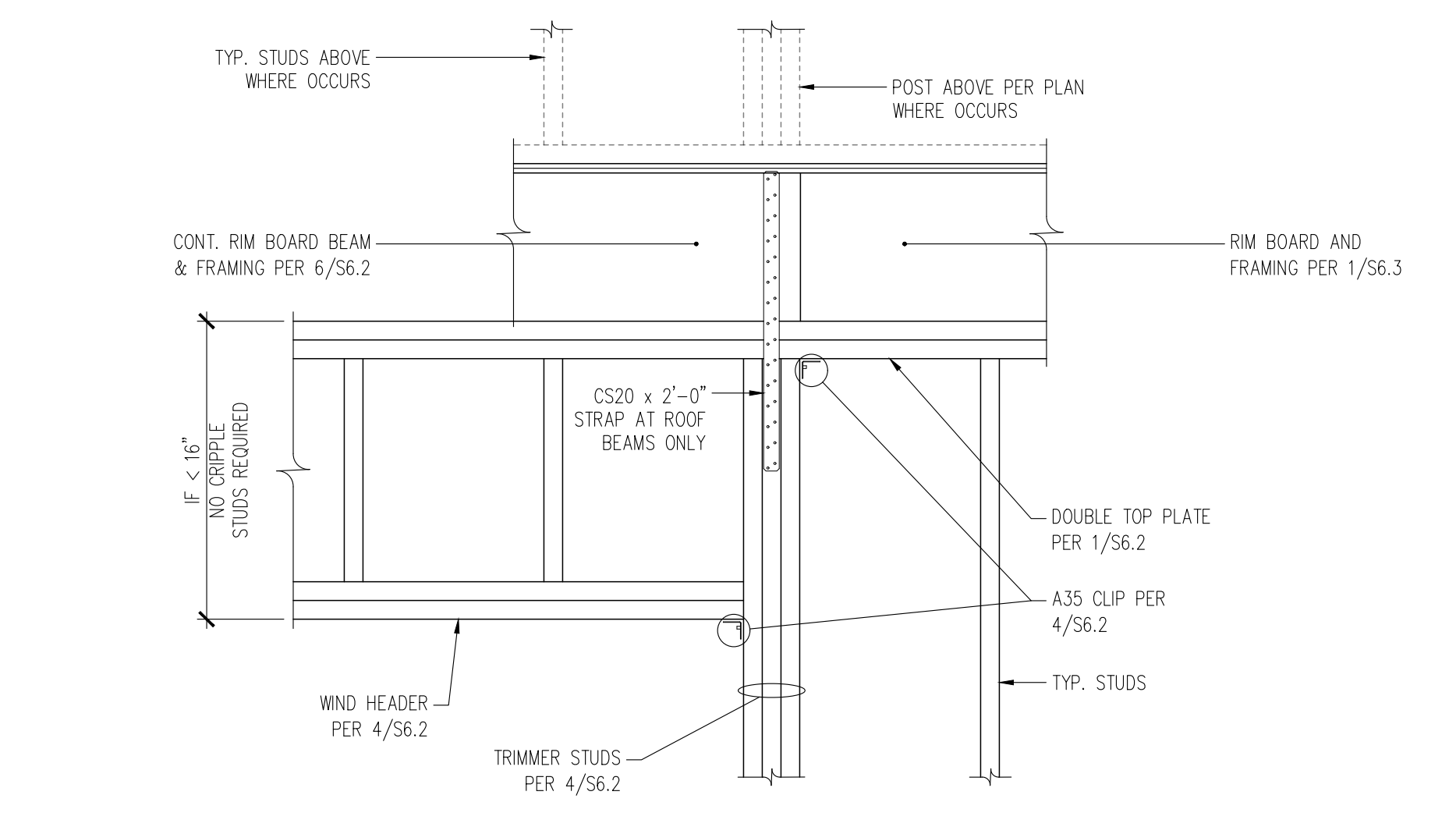
1 TOP PLATE SPLICE  
S6.1 NTS



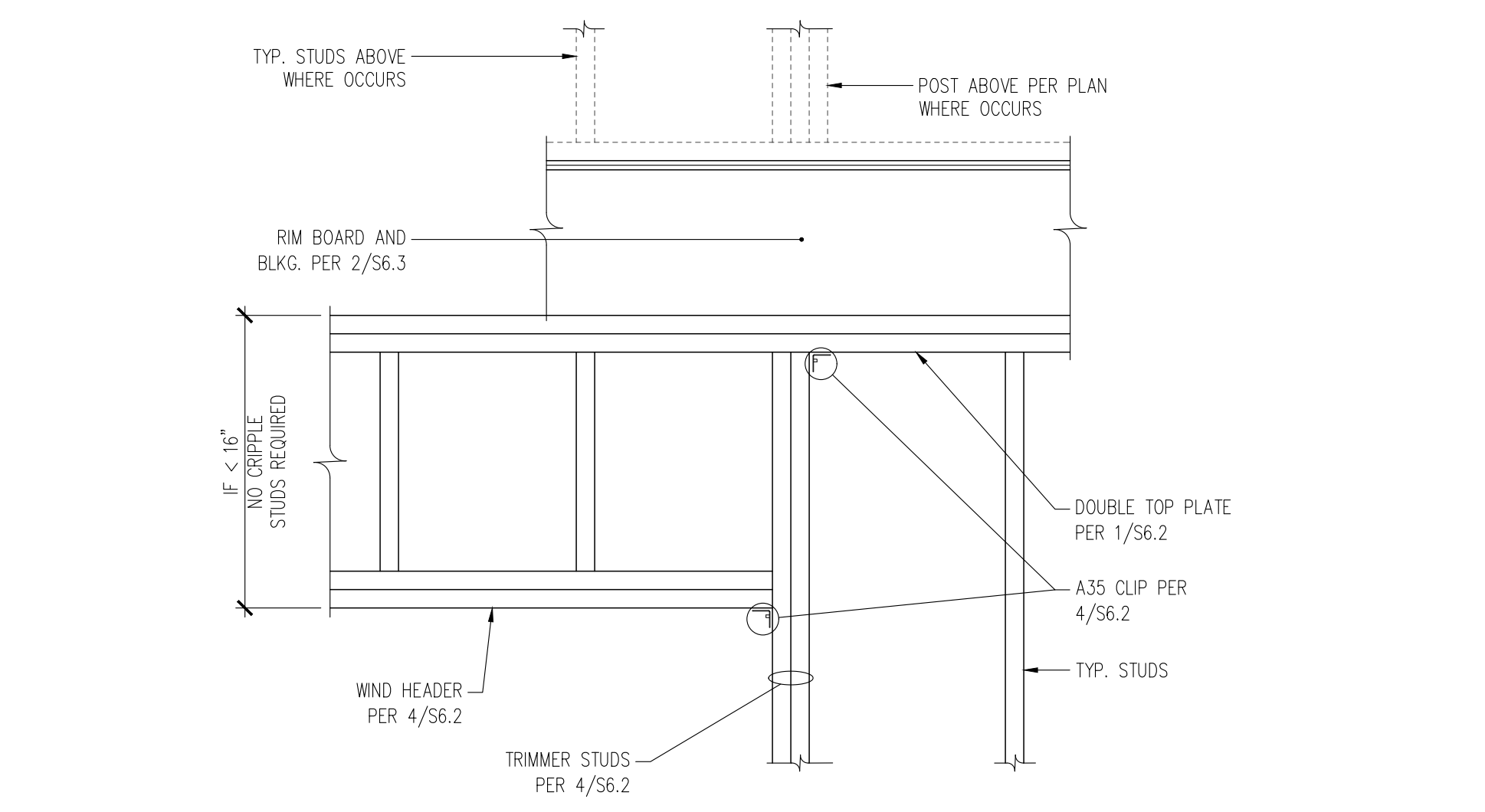
6 S6.2 TYPICAL RIMBOARD HEADER & WIND HEADER IN LOAD BEARING EXTERIOR WALL  
NTS



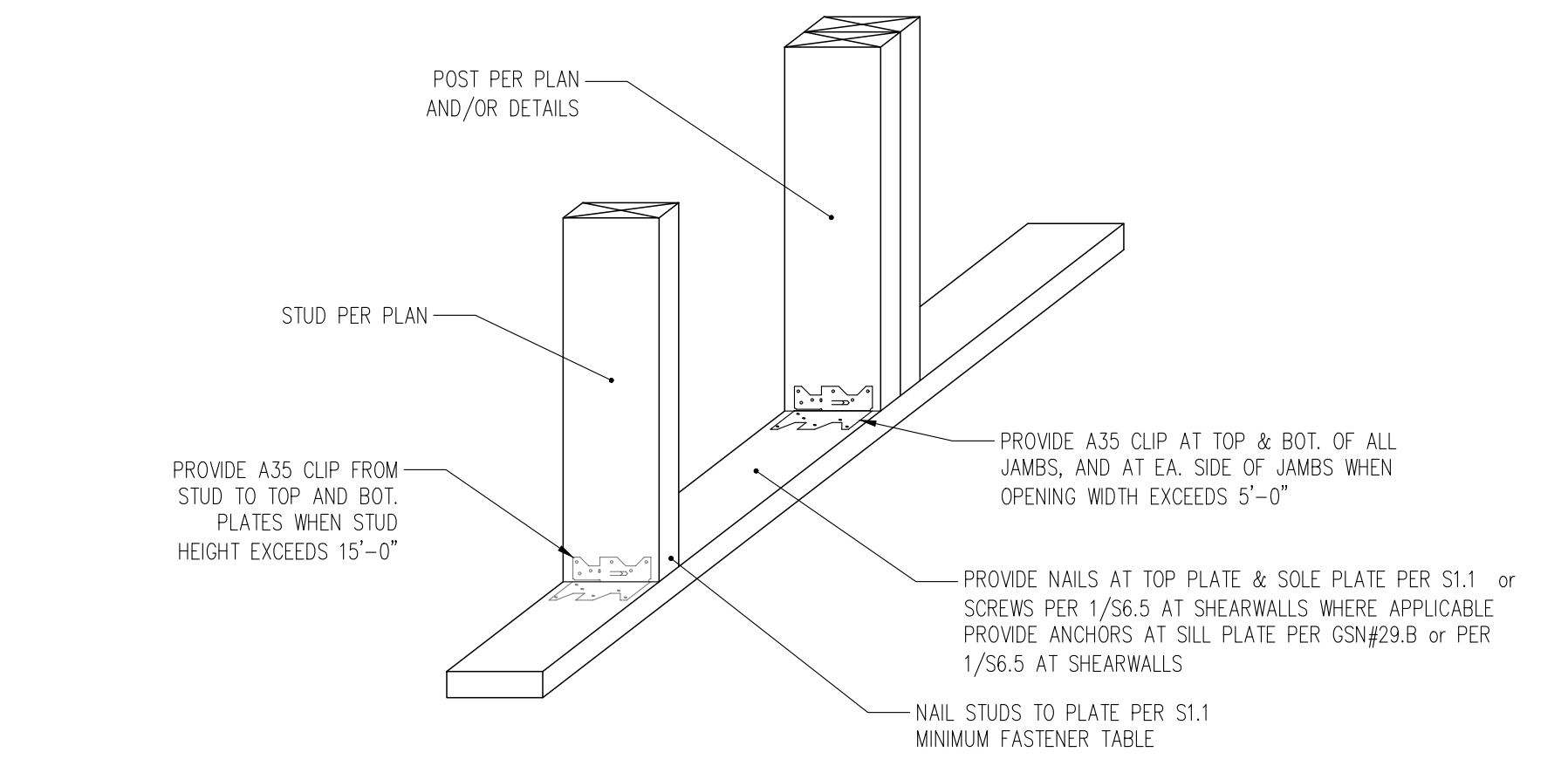
3 S6.2 TYPICAL WIND HEADER IN NON-LOAD BEARING EXTERIOR WALL  
NTS



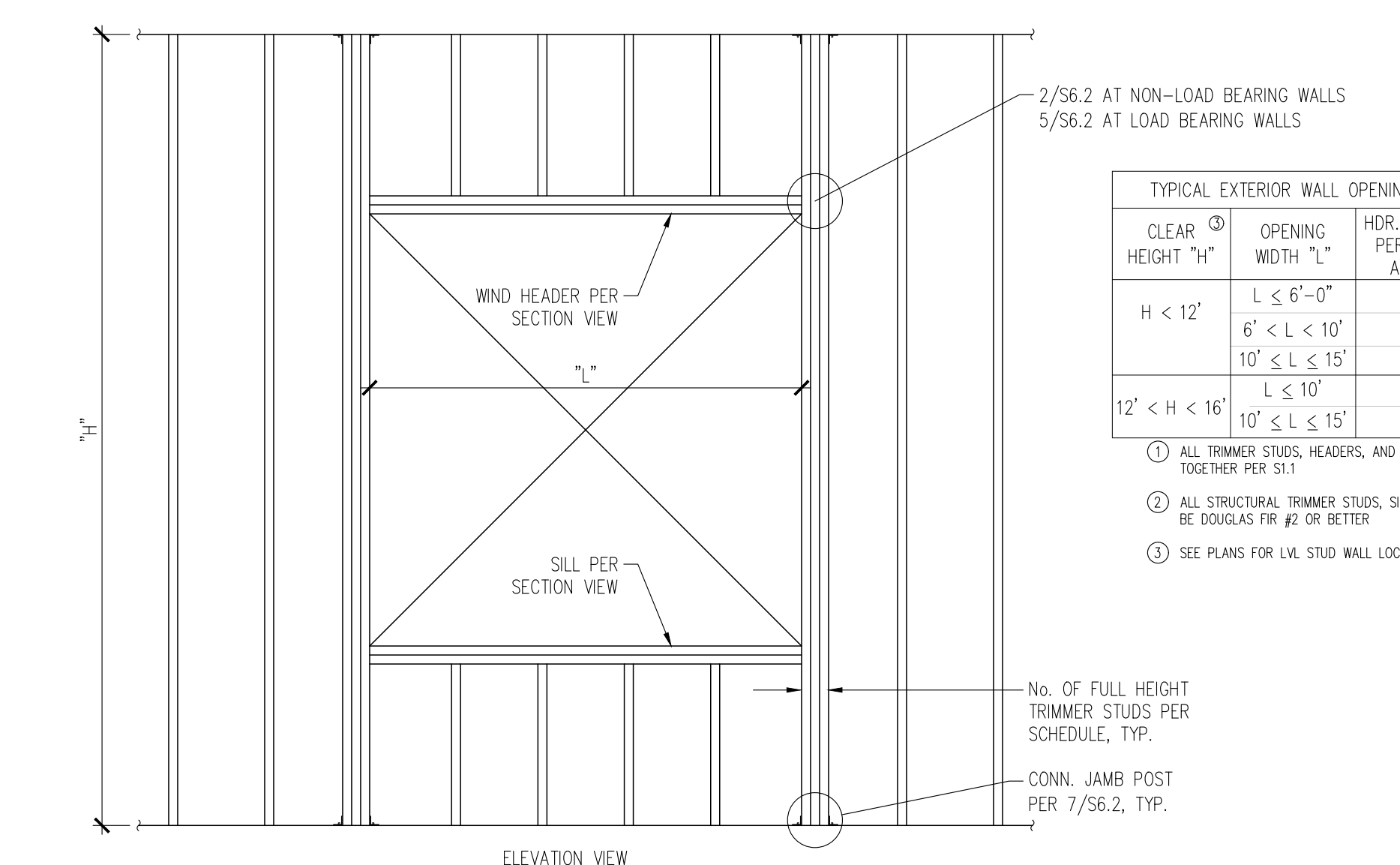
5 S6.2 TYPICAL FLUSH BEAM/HEADER IN EXTERIOR WALL  
NTS



2 S6.2 TYPICAL WIND HEADER DETAIL  
NTS



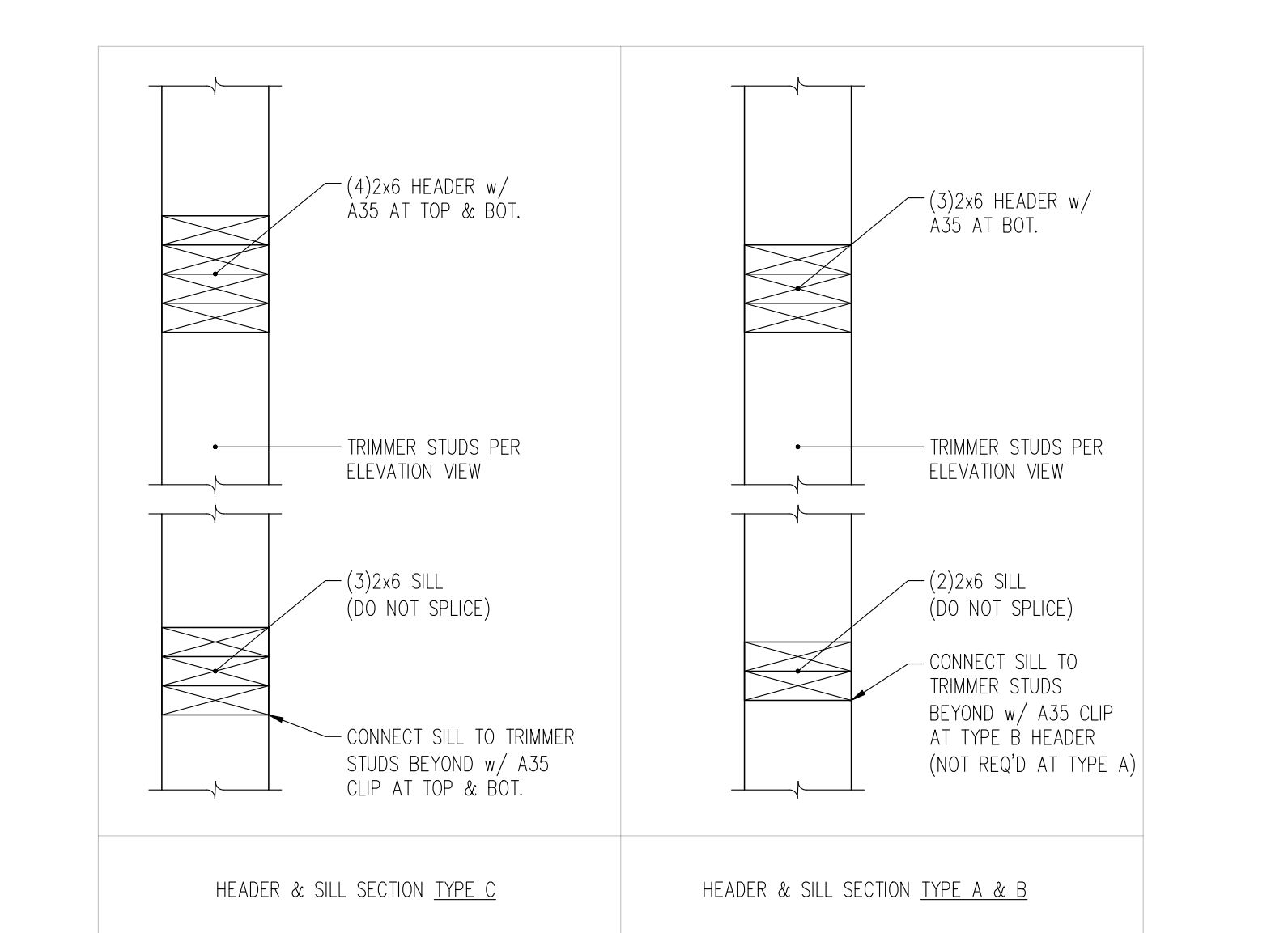
7 S6.2 CONNECTION OF EXTERIOR STUDS AT TOP & BOTTOM PLATES  
NTS



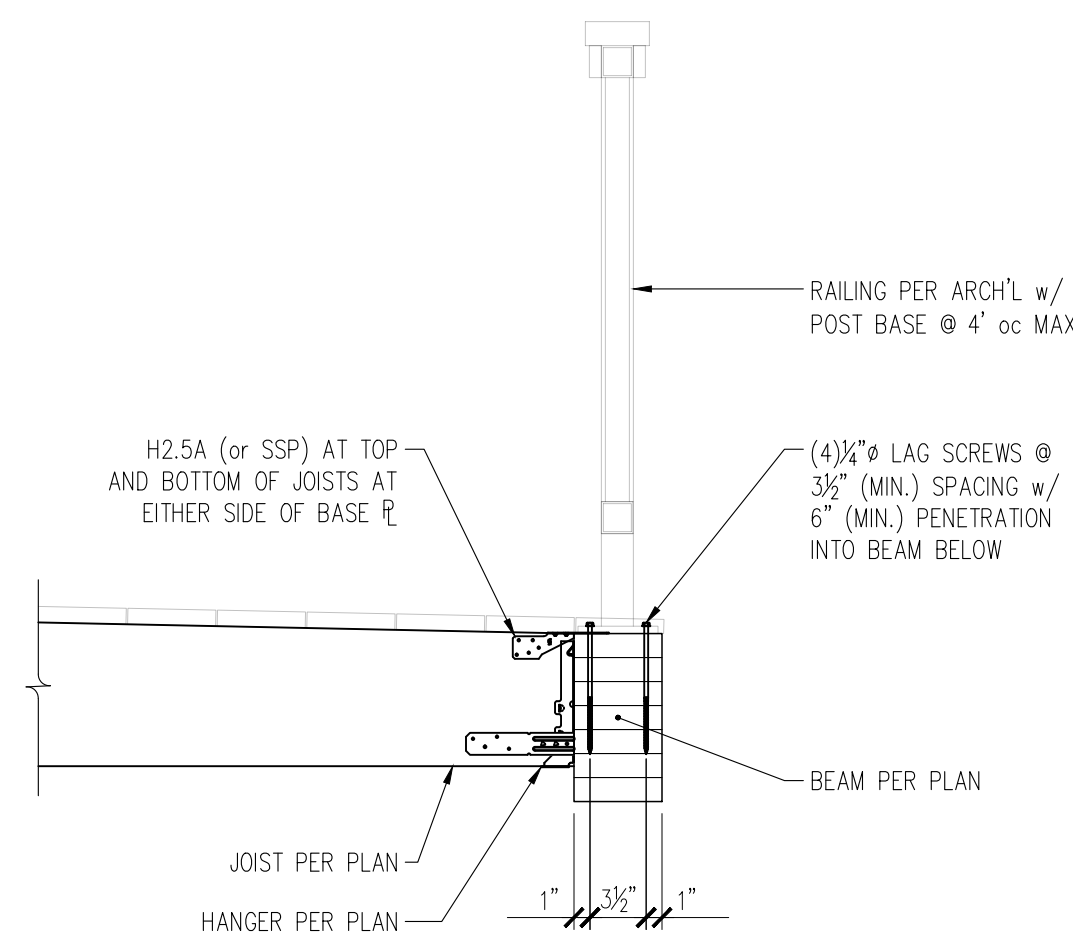
4 S6.2 TYPICAL WIND HEADER  
NTS

TYPICAL EXTERIOR WALL OPENING FRAMING SCHEDULE			
CLEAR HEIGHT "H"	OPENING WIDTH "L"	HDR./SILL TYPE PER SECTION AT RIGHT	No. OF FULL HEIGHT TRIMMER STUDS
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

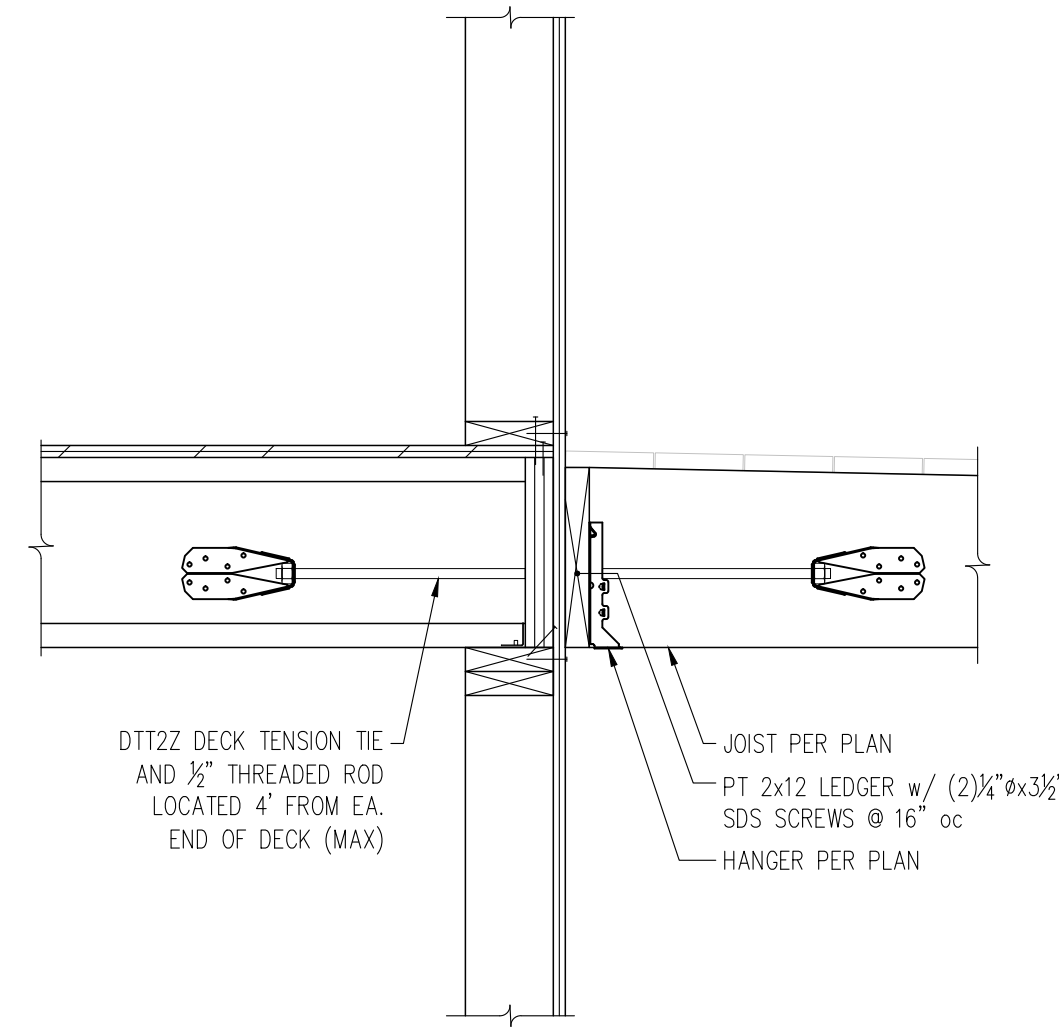
- 1 ALL TRIMMER STUDS, HEADERS, AND SILLS SHALL BE NAILED TOGETHER PER S1.1
- 2 ALL STRUCTURAL TRIMMER STUDS, SILLS, AND HEADERS SHALL BE DOUGLAS FIR #2 OR BETTER
- 3 SEE PLANS FOR LVL STUD WALL LOCATIONS, WHERE APPLICABLE



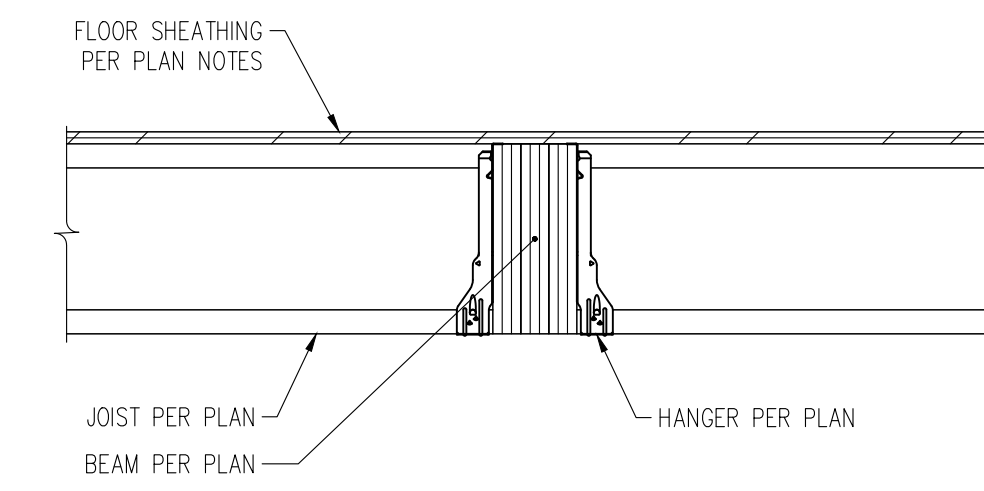
2 S6.2 TYPICAL WIND HEADER DETAIL  
NTS



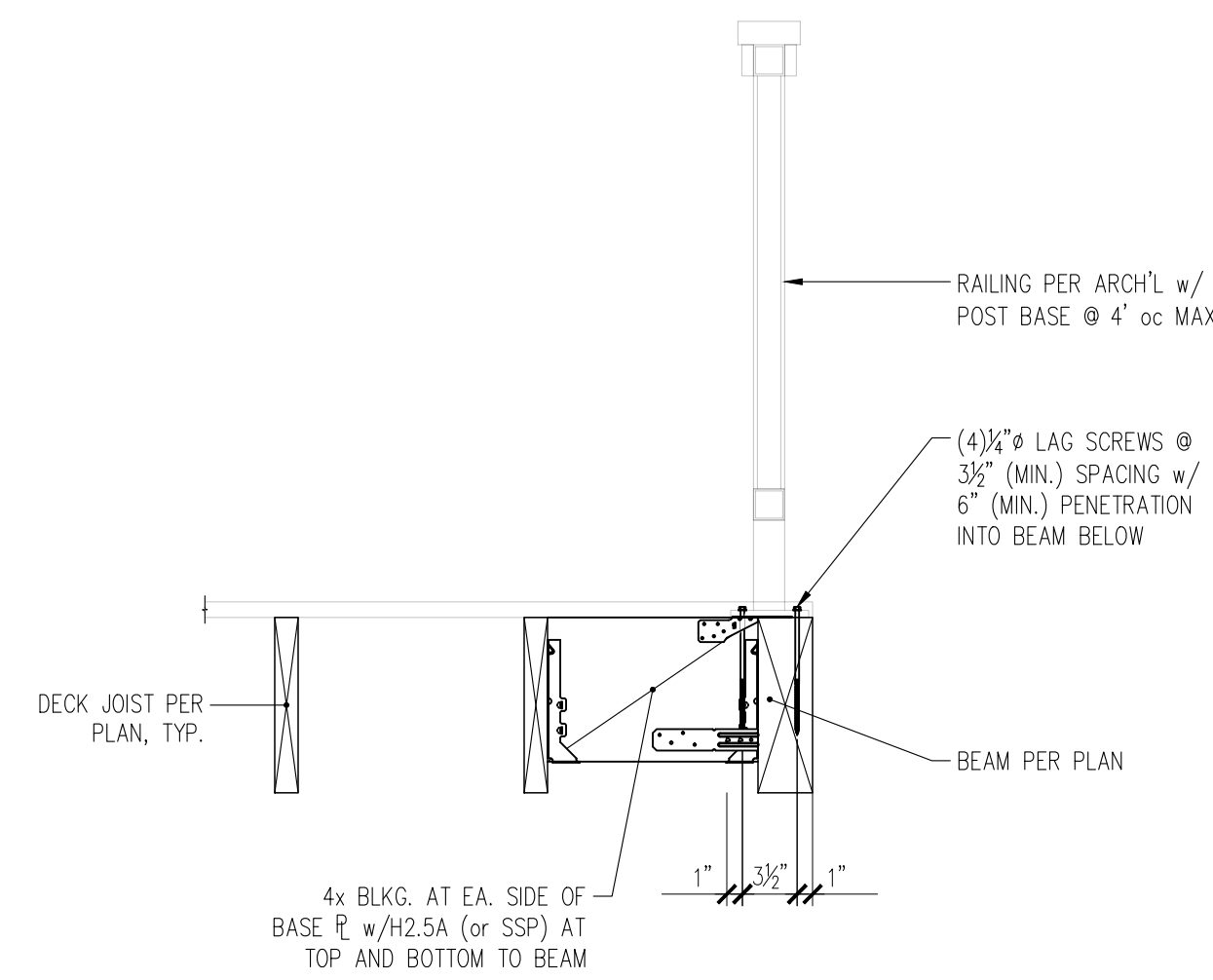
9 SECTION THROUGH EDGE OF DECK AT PERPENDICULAR JOISTS  
S6.3 1" = 1'-0"



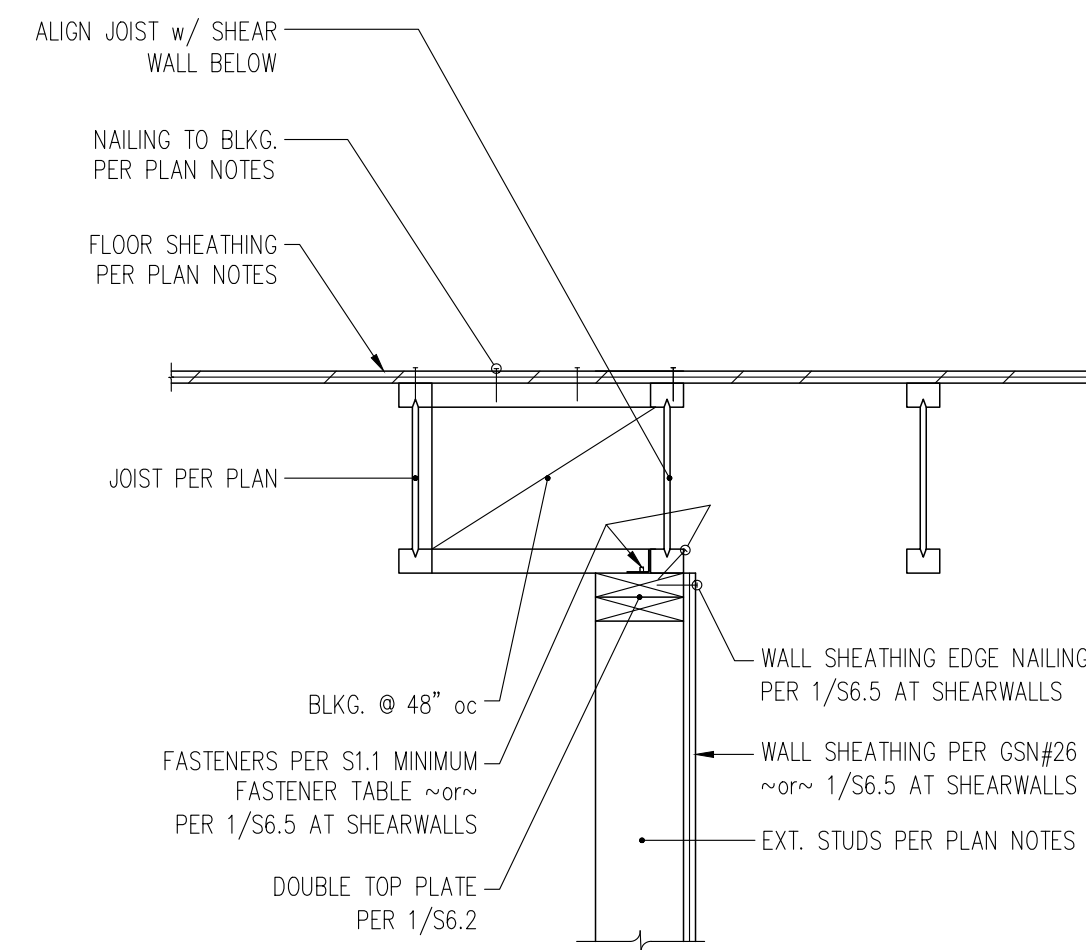
6 SECTION THROUGH EXTERIOR WALL AT PERPENDICULAR INTERIOR AND DECK JOISTS  
S6.3 1" = 1'-0"



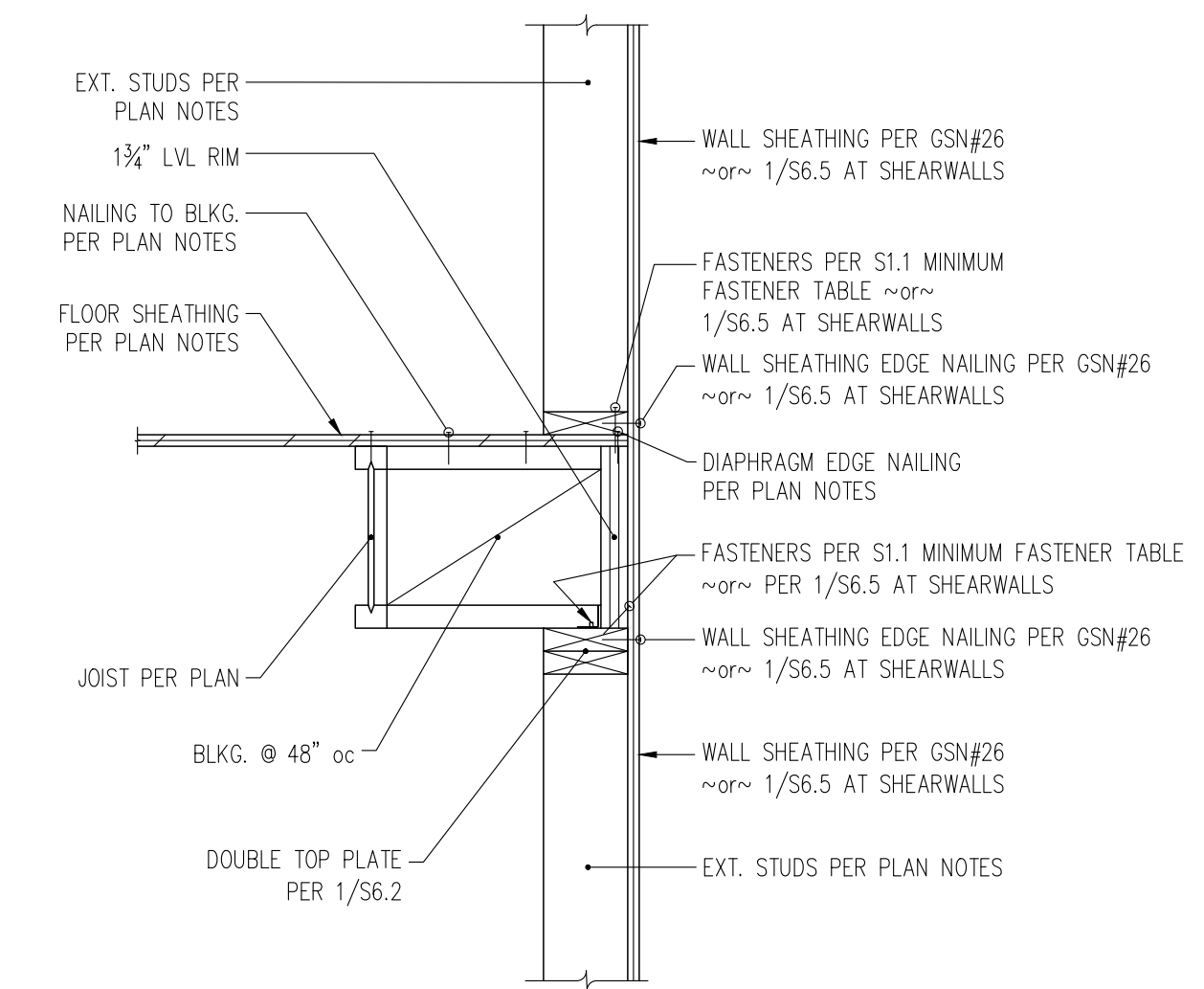
3 SECTION THROUGH INTERIOR BEAM AT PERPENDICULAR JOISTS  
S6.3 1" = 1'-0"



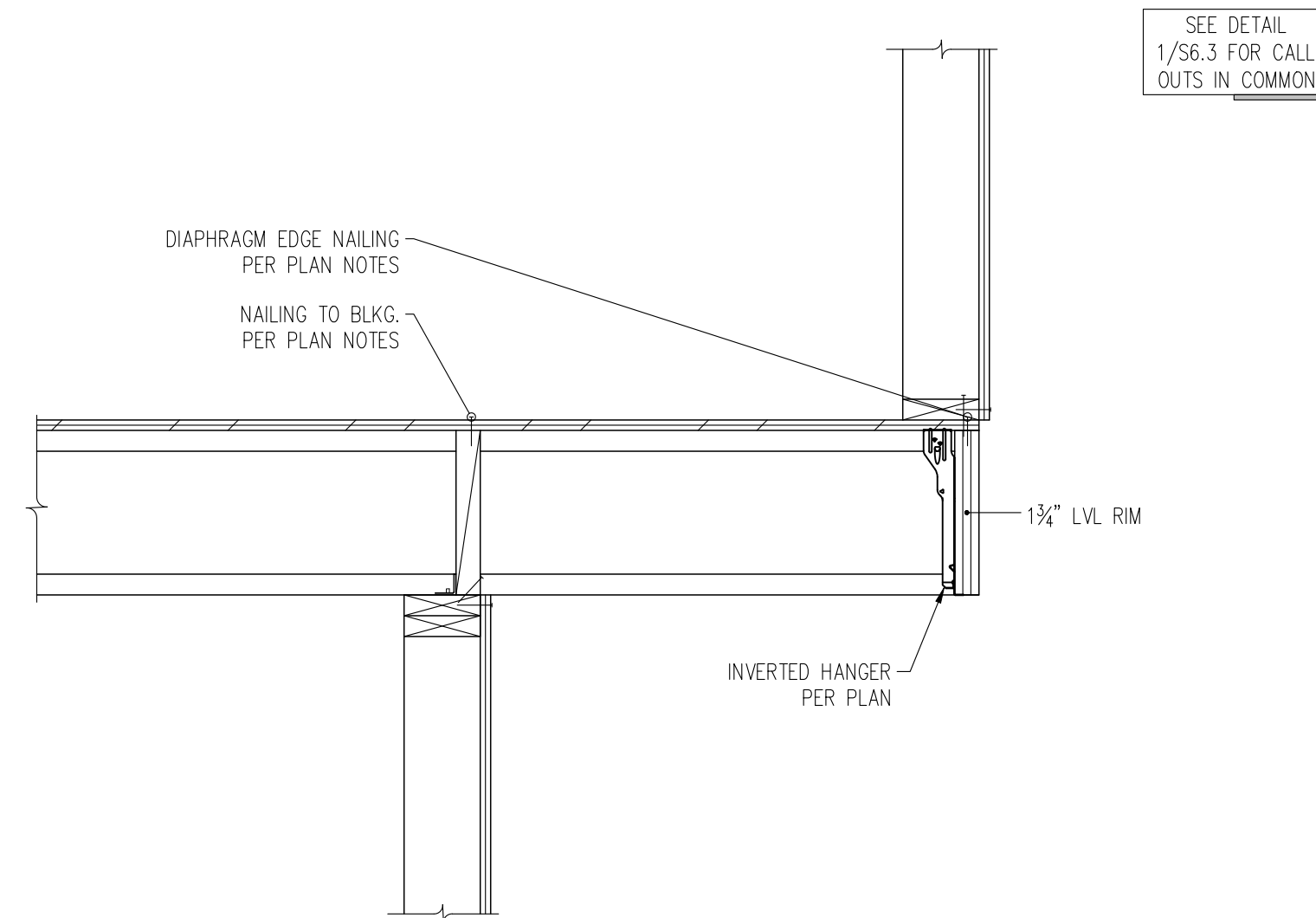
8 SECTION THROUGH EDGE OF DECK AT PARALLEL JOISTS  
S6.3 1" = 1'-0"



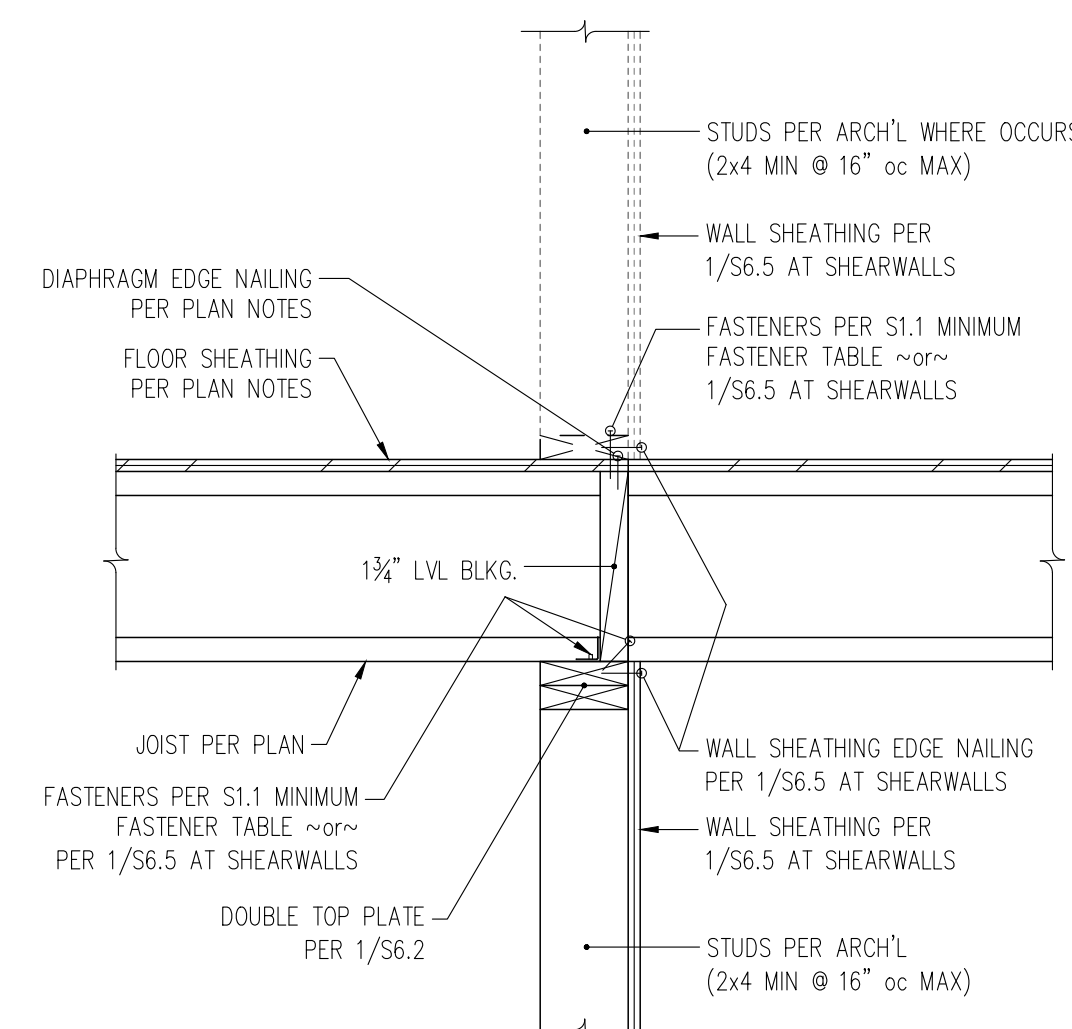
5 SECTION THROUGH EXTERIOR WALL AT PARALLEL JOISTS AT EACH SIDE  
S6.3 1" = 1'-0"



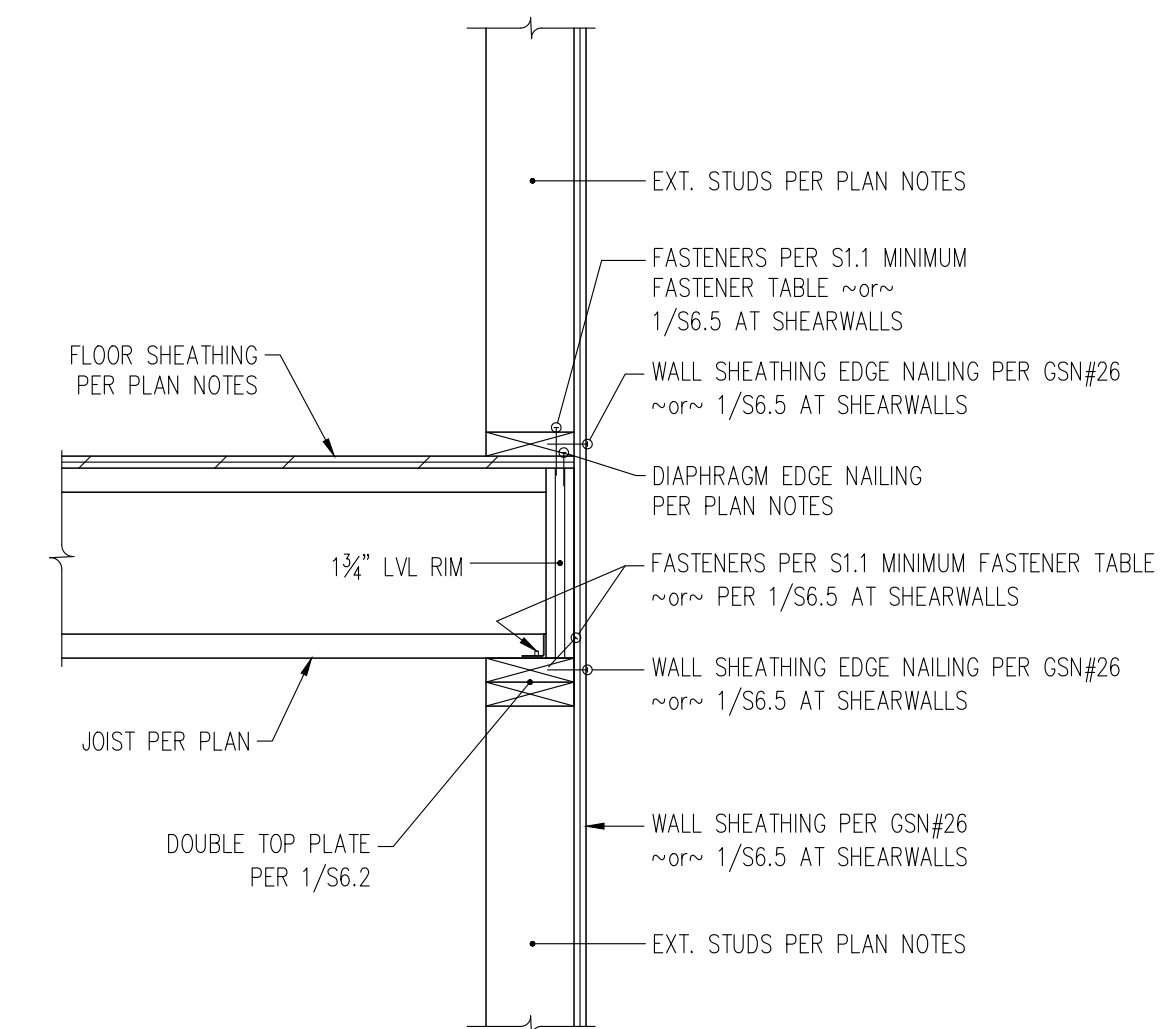
2 SECTION THROUGH EXTERIOR WALL AT PARALLEL JOISTS  
S6.3 1" = 1'-0"



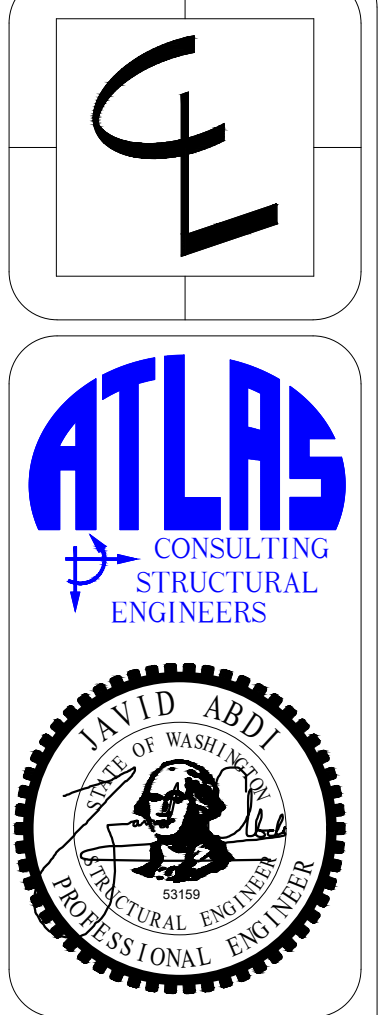
7 SECTION THROUGH OFFSET EXTERIOR WALL AT CANTILEVERED PERPENDICULAR JOISTS  
S6.3 1" = 1'-0"



4 SECTION THROUGH INTERIOR SHEAR WALL AT PERPENDICULAR JOISTS  
S6.3 1" = 1'-0"



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

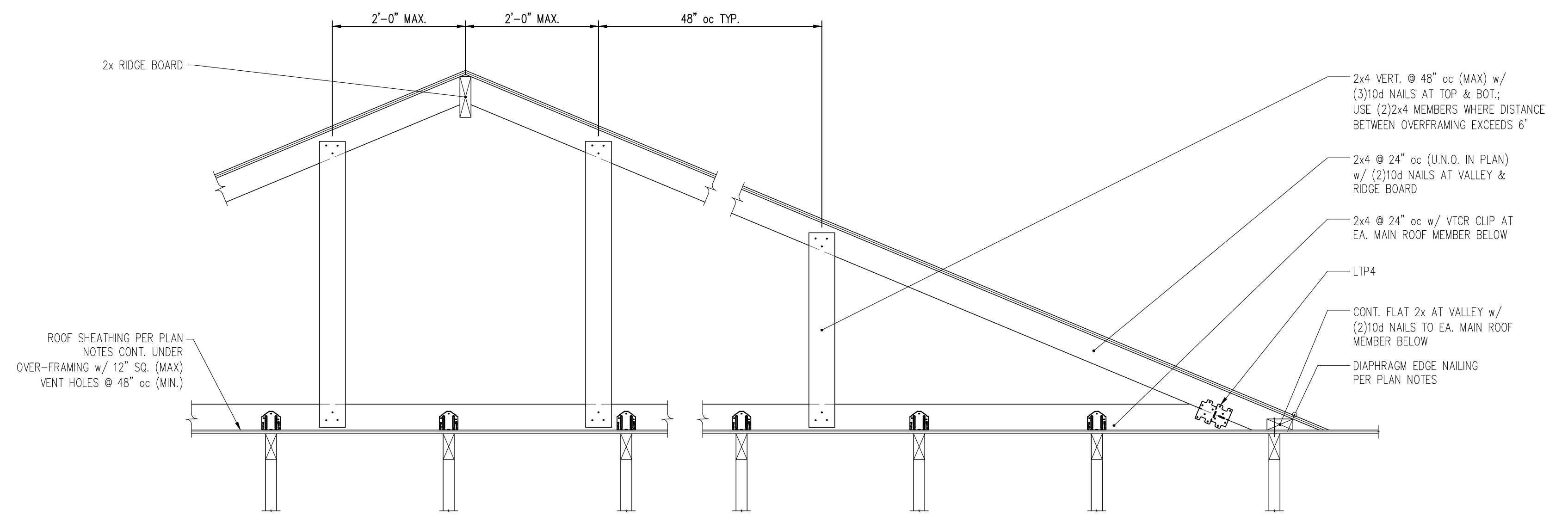


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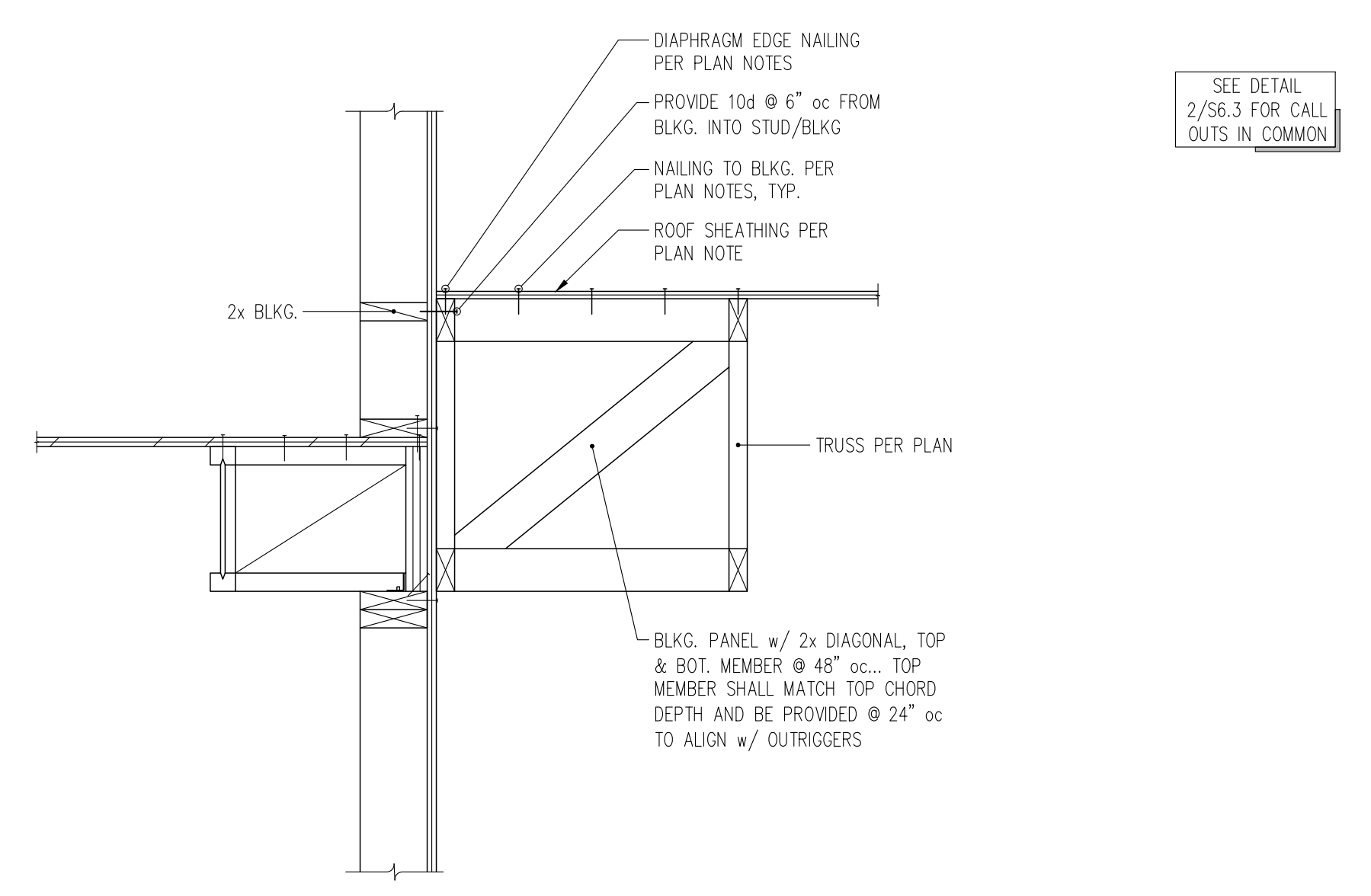
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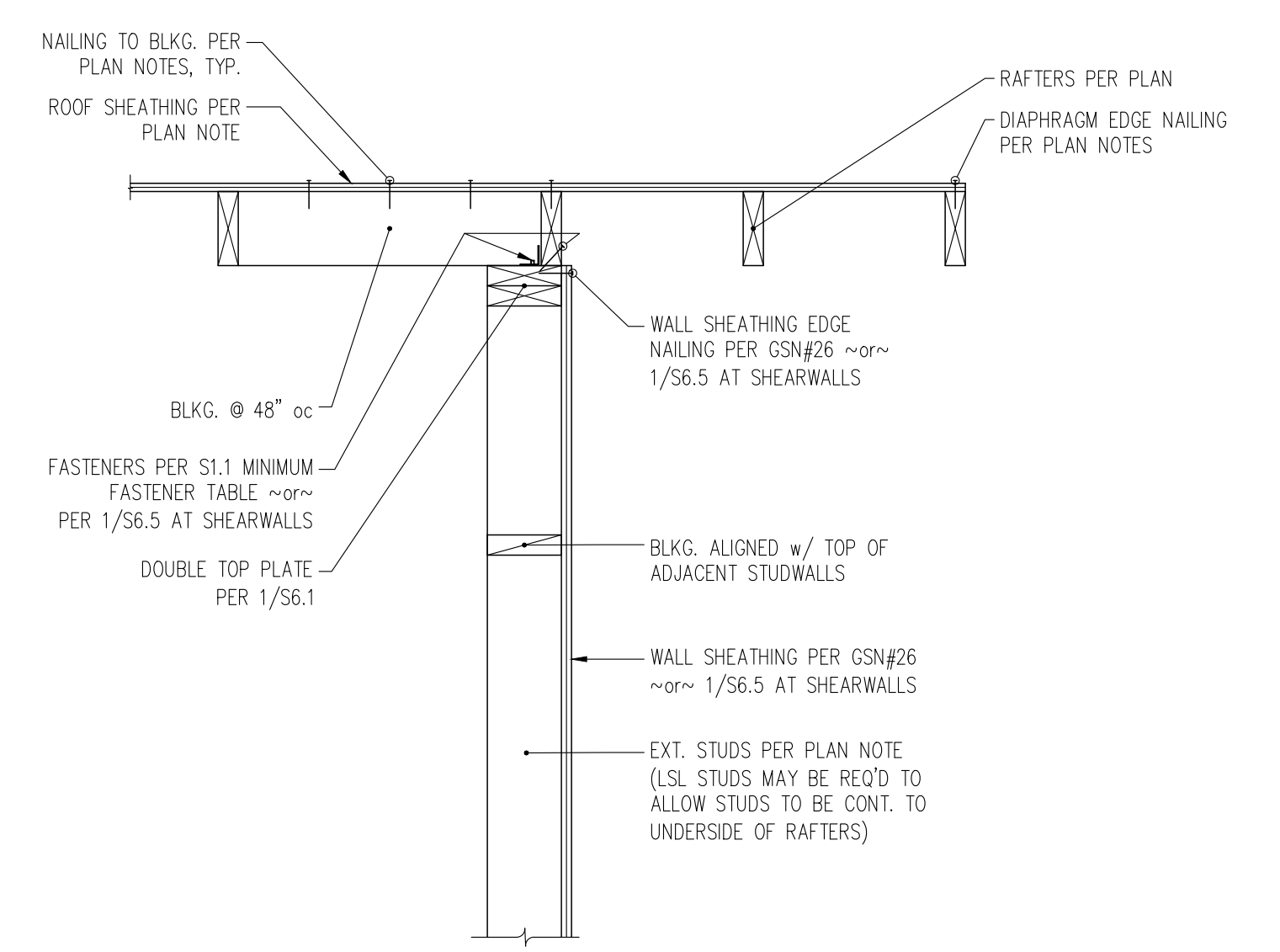
S6.3



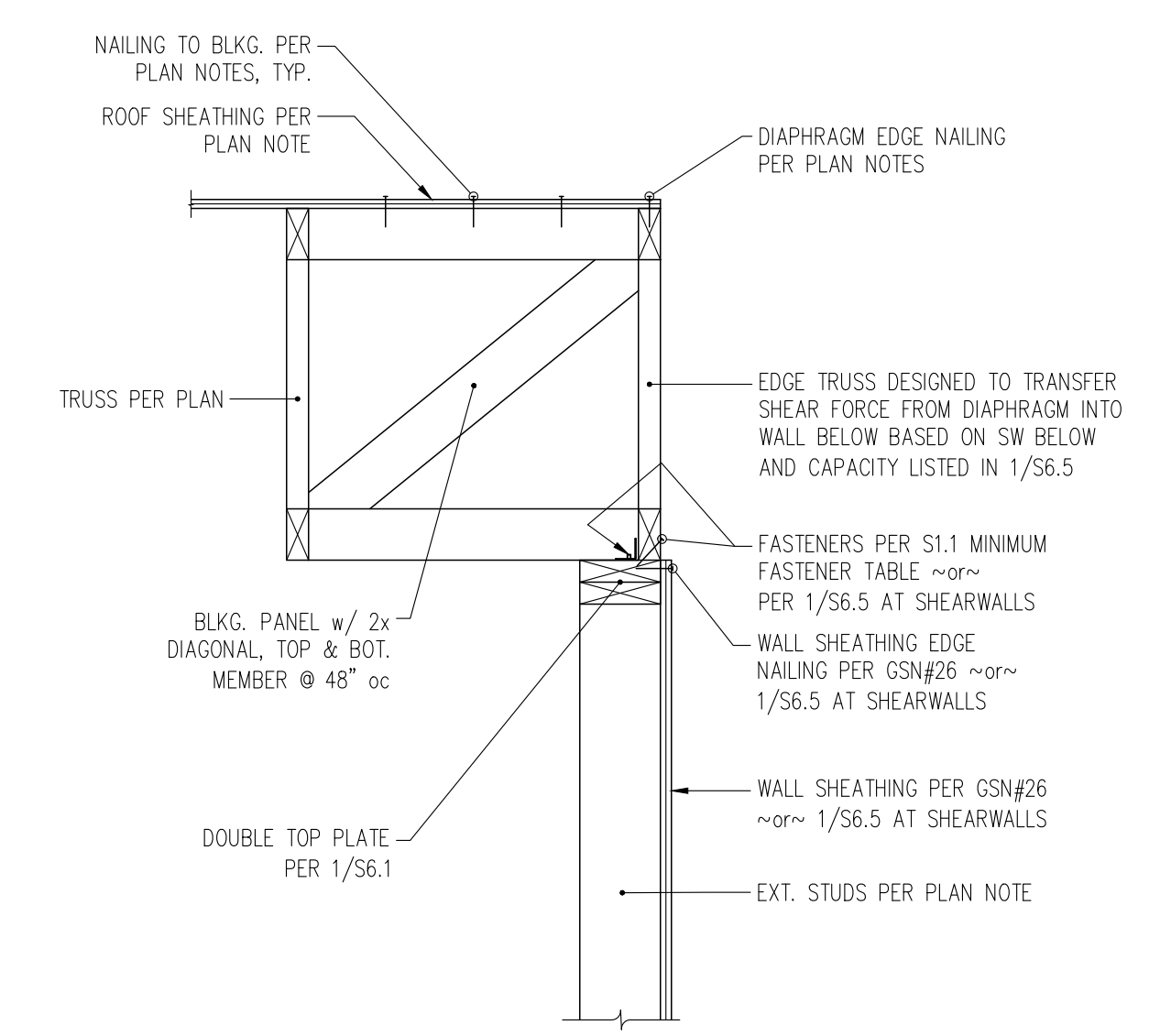
6 TYPICAL ROOF OVERFRAMING  
S6.4 1" = 1'-0"



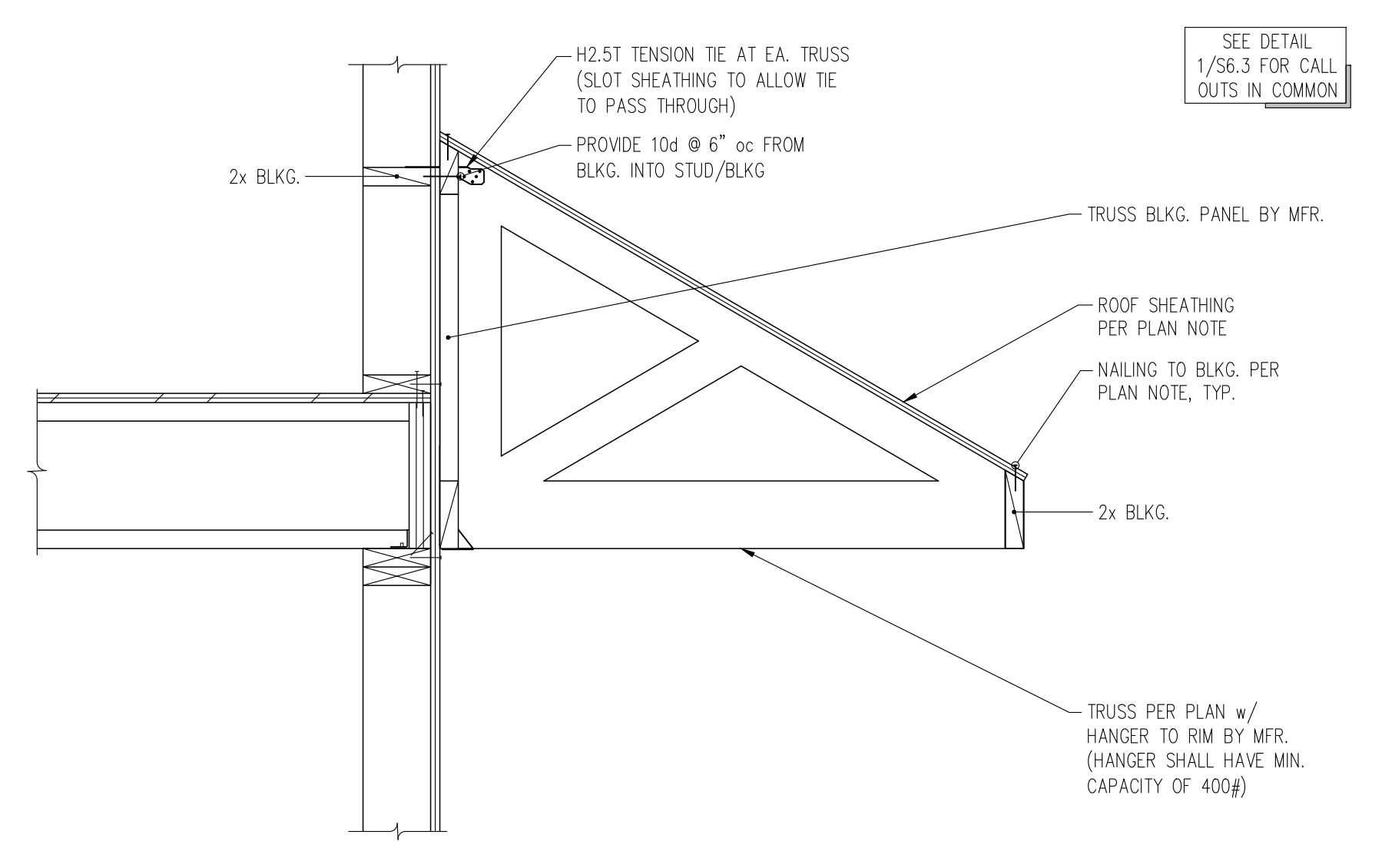
8 SECTION THROUGH EXTERIOR WALL AT PARALLEL JOISTS AND CONNECTOR TRUSSES  
S6.4 1" = 1'-0"



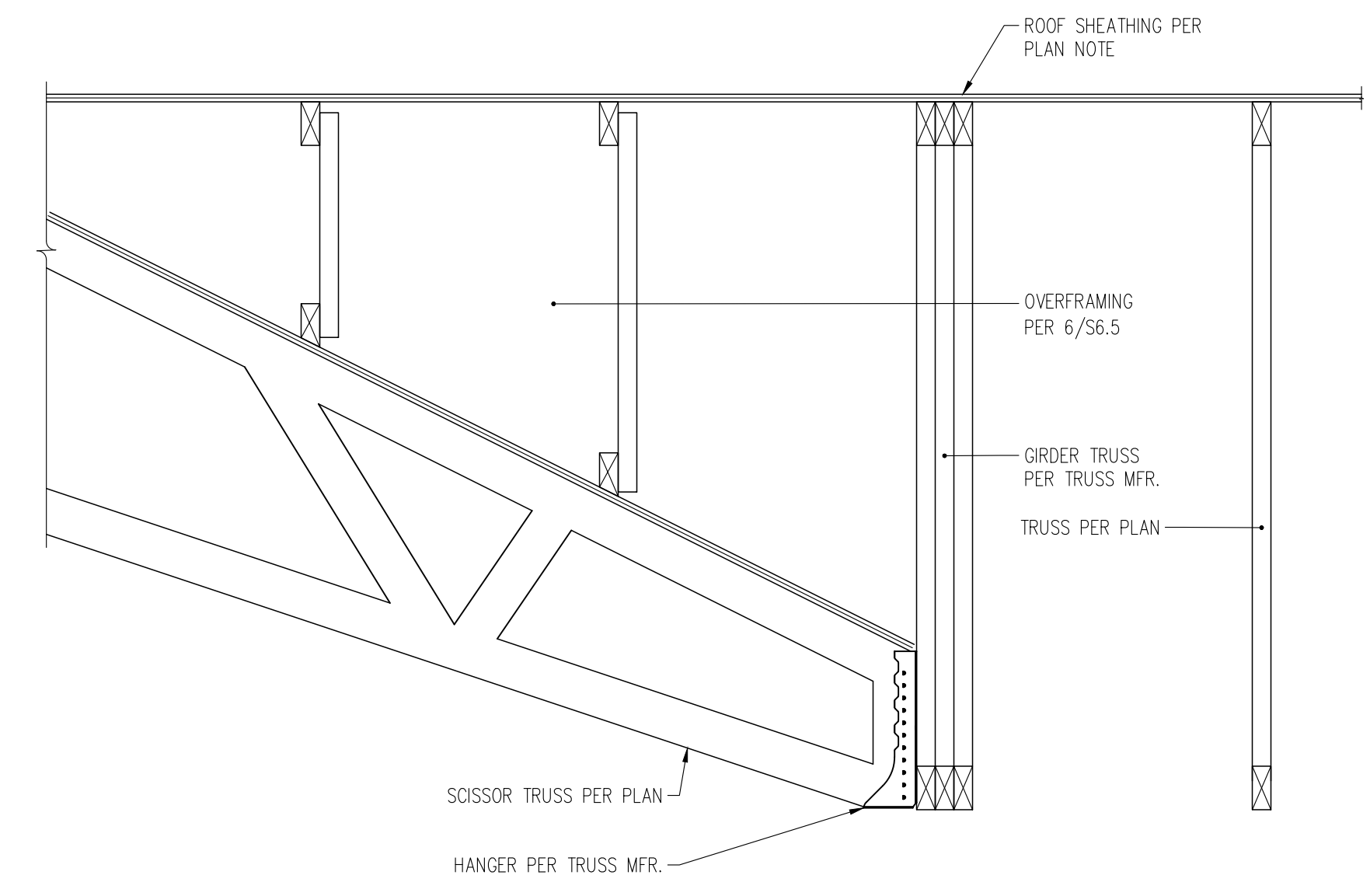
5 SECTION THROUGH EXTERIOR WALL AT PARALLEL RAFTERS  
S6.4 1" = 1'-0"



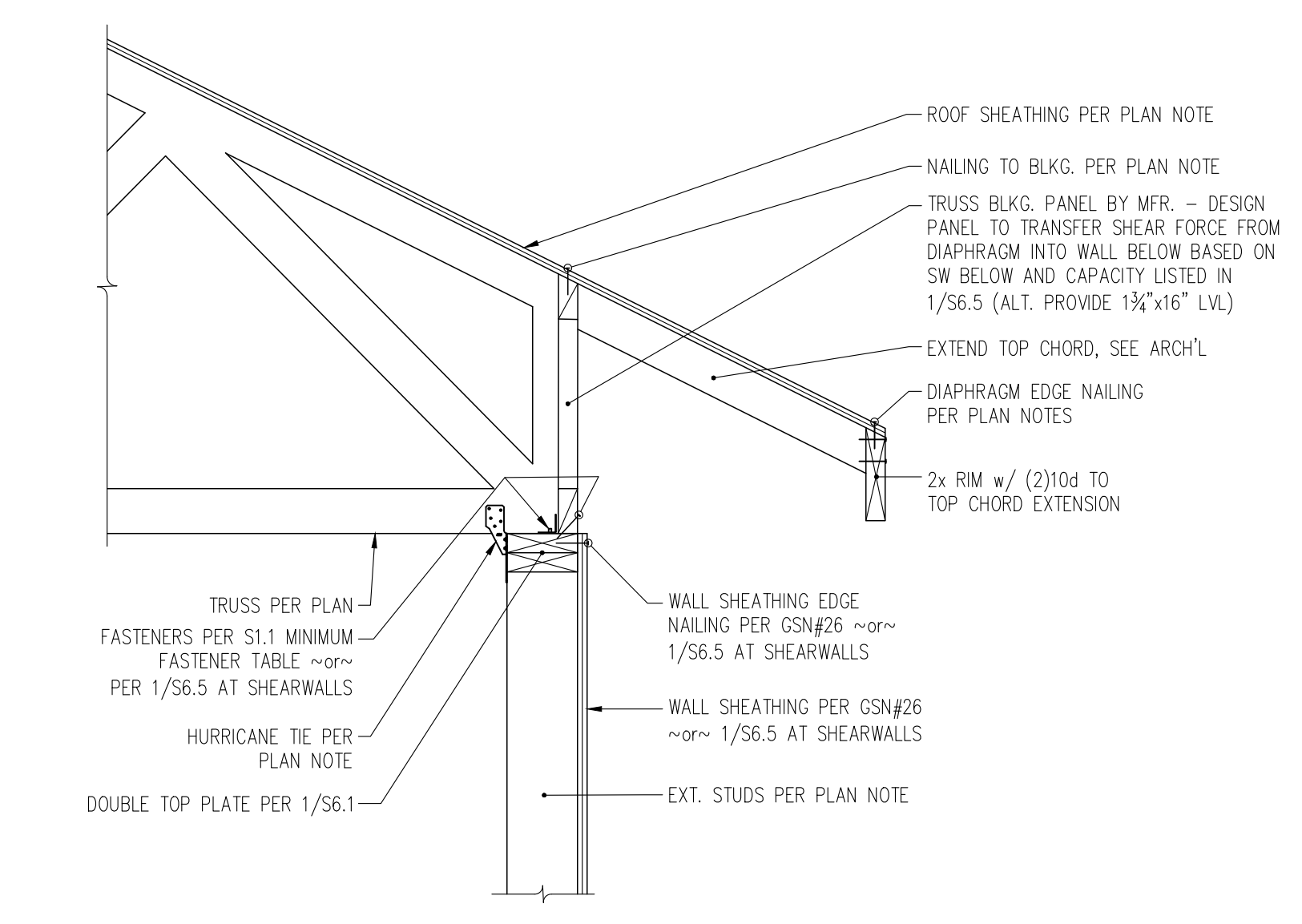
2 SECTION THROUGH EXTERIOR WALL AT PARALLEL ROOF TRUSSES  
S6.4 1" = 1'-0"



7 SECTION THROUGH EXTERIOR WALL AT PERPENDICULAR JOISTS AND CANTILEVERED TRUSSES  
S6.4 1" = 1'-0"



4 SECTION THROUGH INTERIOR GIRDER TRUSS AT PERPENDICULAR SCISSOR TRUSSES  
S6.4 NTS



1 SECTION THROUGH EXTERIOR WALL AT PERPENDICULAR ROOF TRUSSES  
S6.4 1" = 1'-0"

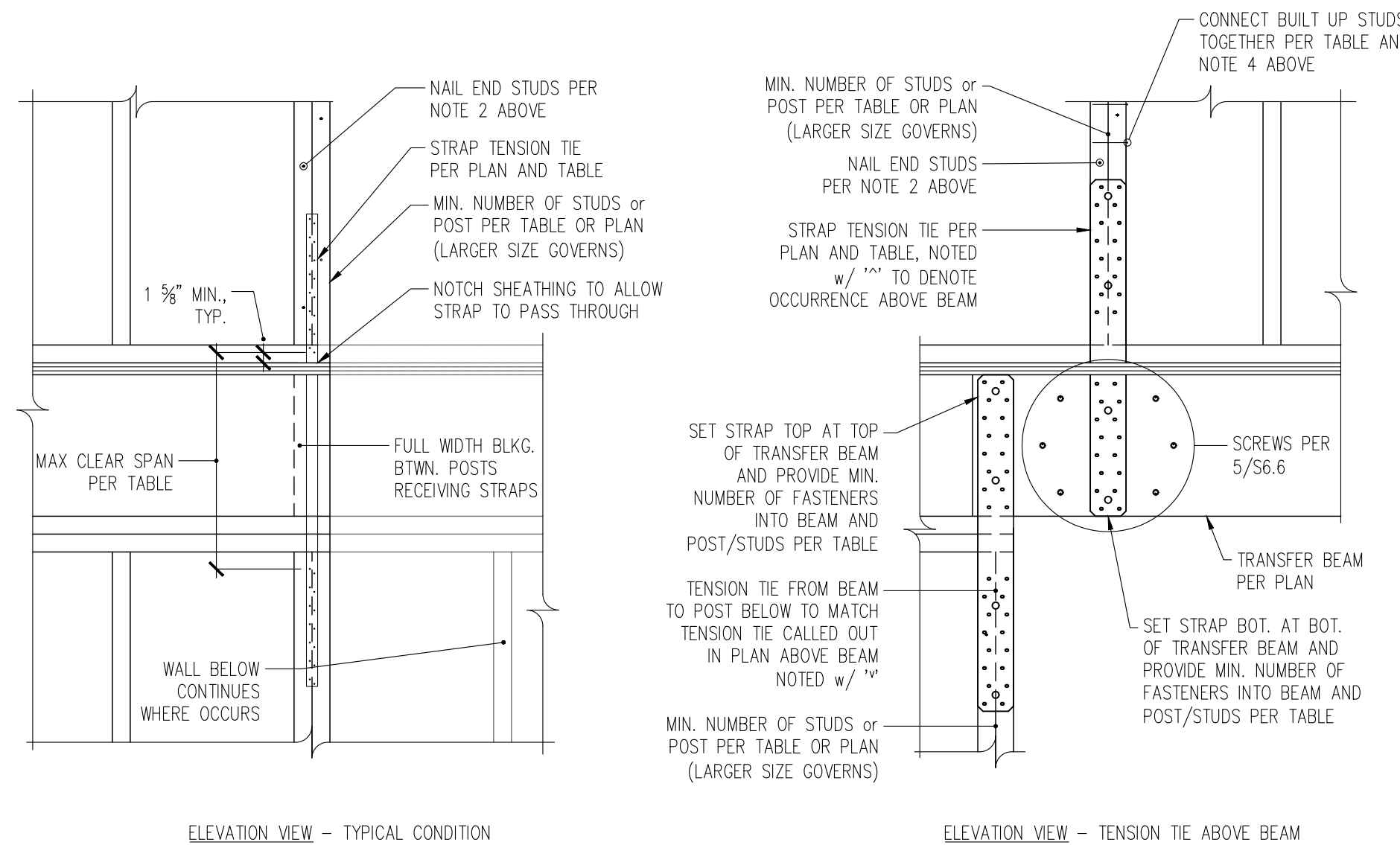
STRAP TENSION TIE SCHEDULE

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"ø x 3/4"	1,150#	10d @ 6" oc
MSTC40	(2)2x	18" - (28)0.148"ø x 3/4"	2,690#	10d @ 4" oc
MSTC52	(3)2x	18" - (44)0.148"ø x 3/4"	4,225#	(8)3/4"x4 1/2" SDS
MSTC66	(3)2x	18" - (64)0.148"ø x 3/4"	5,850#	(12)3/4"x6" SDS
(2)MSTC52	(4)2x	18" - (64)0.148"ø x 3/4"	7,750#	(14)3/4"x6" SDS
(2)MSTC66	6x6	18" - (64)0.148"ø x 3/4"	9,800#	(12)3/4"x6" SDS

TENSION TIE ABOVE BEAM

TIE MARK	Min. # of studs	FASTENERS	ASD CAPACITY	BUILT-UP STUD FACE NAILS or SCREWS
MSTC28**	(2)2x	(16)0.148"ø x 3/4"	1,439#	10d @ 4" oc

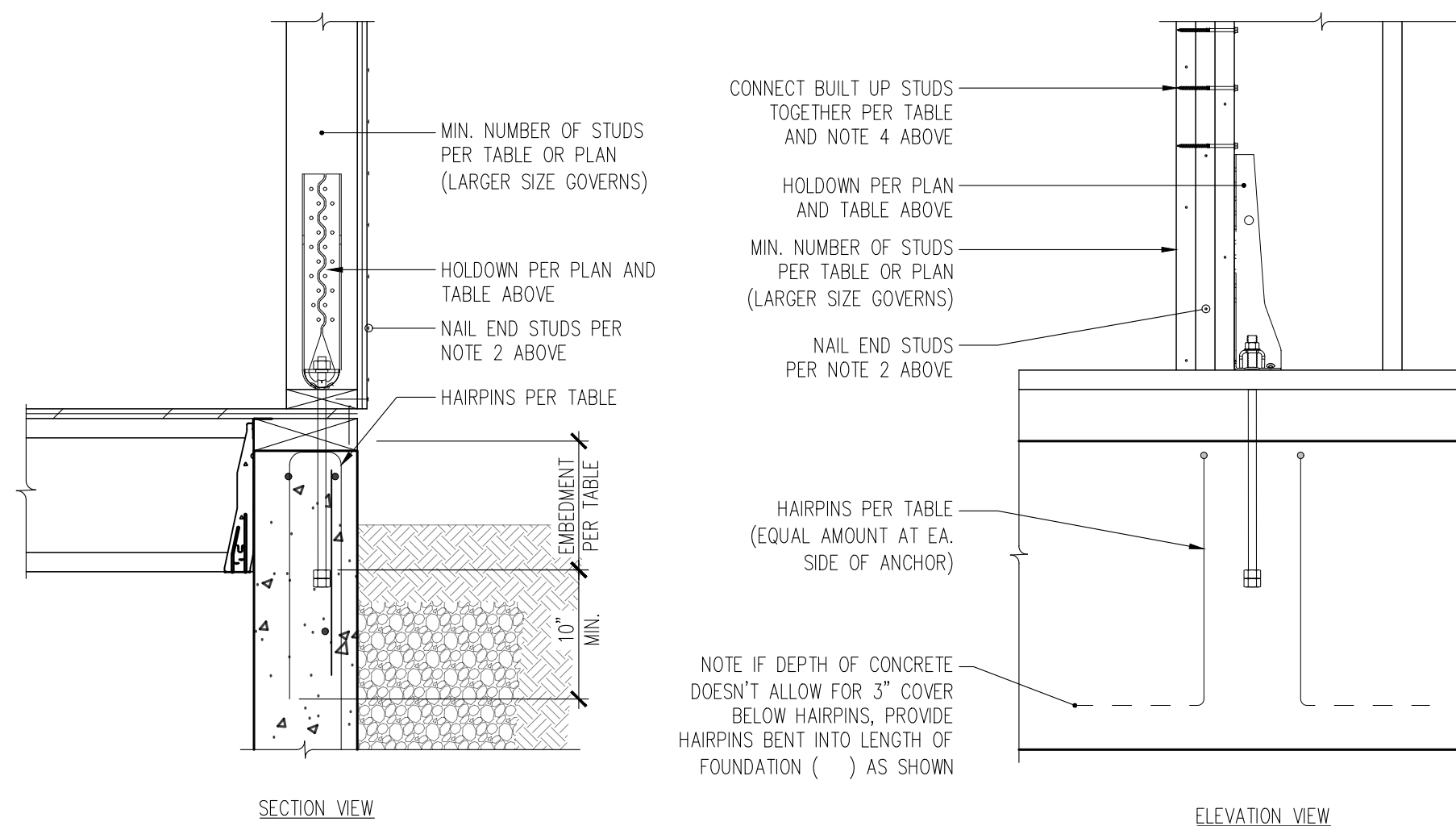
- TENSION TIE TYPES REFER TO SIMPSON STRONG-TIE CATALOG CALLOUTS.
  - NAIL PLYWOOD SHEATHING TO STUDS RECEIVING HOLDOWN WITH SCHEDULED PANEL EDGE NAILING. STAGGER NAILS SO THAT EACH STUD IS NAILED.
  - FASTENERS NOTED IN TABLE ABOVE REPRESENT THE TOTAL AMOUNT. FOR STRAPS, HALF OF THE FASTENERS SHALL 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 MSTC28\*\* PROVIDE 4 TOTAL SDW EWP-PLY SCREWS TO FASTEN TRANSFER BEAM TOGETHER, SEE 5/56.6



HOLDOWN 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
HDU2	(2)2x	3/8"ø x 10" - (2)#4 HAIRPIN	(6)3/4" x 2 1/2" SDS SCREWS	3,075#	10d @ 4" oc
HDU4	(3)2x	3/8"ø x 10" - (2)#4 HAIRPIN	(10)3/4" x 2 1/2" SDS SCREWS	4,565#	(9)3/4"x4 1/2" SDS
HDU5	(3)2x	3/8"ø x 10" - (2)#4 HAIRPIN	(14)3/4" x 2 1/2" SDS SCREWS	5,645#	(10)3/4"x4 1/2" SDS
HDU8	(4)2x	3/8"ø x 10" - (4)#4 HAIRPIN	(20)3/4" x 2 1/2" SDS SCREWS	7,870#	(15)3/4"x6" SDS
HDU11	6x6	1"ø x 10" - (4)#4 HAIRPIN	(30)3/4" x 2 1/2" SDS SCREWS	11,175#	N/A
HDU14	6x6	1"ø x 10" - (6)#4 HAIRPIN	(36)3/4" x 2 1/2" SDS SCREWS	14,445#	N/A

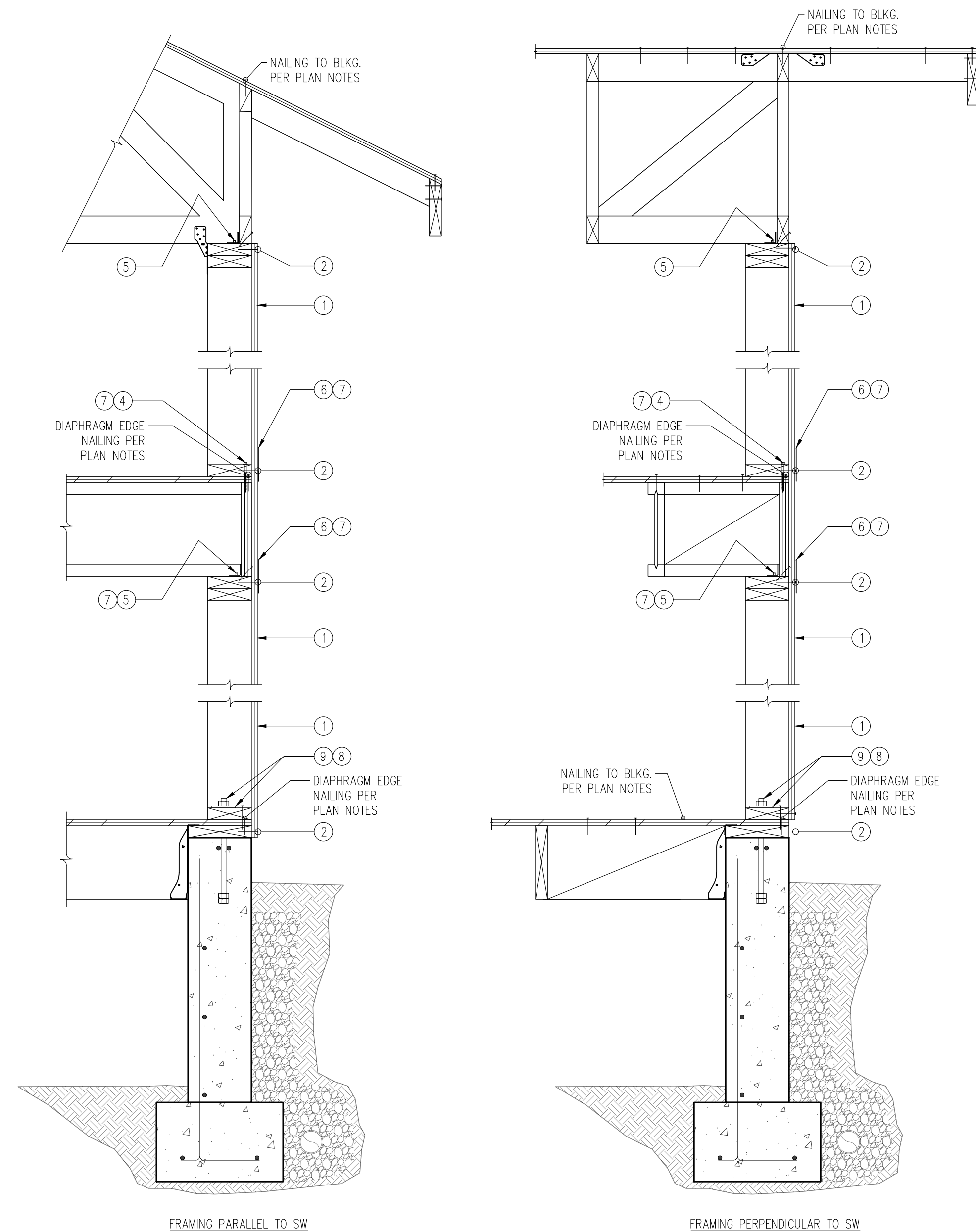
- TENSION TIE TYPES REFER TO SIMPSON STRONG-TIE CATALOG CALLOUTS.
- NAIL PLYWOOD SHEATHING TO STUDS RECEIVING HOLDOWN WITH SCHEDULED PANEL EDGE NAILING. STAGGER NAILS SO THAT EACH STUD IS NAILED.
- ANCHORS SHALL BE HEAVY HEX HEAD WITH DOUBLE NUT CAST INTO CONCRETE.  
 ASTM F 1554 Gr. 36 FOR 3/8"ø ANCHOR  
 ASTM F 1554 Gr. 55 FOR 3/8"ø AND 1"ø 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.



4 HOLDOWN DETAIL AND SCHEDULE  
 S6.5 1" = 1'-0"

SHEARWALL PANEL TYPE	SHEATHING THICKNESS	0.148" x 2 1/4" PANEL NAILING	STUD/BLKG. AT ABUTTING PANEL EDGES & SILL PLATE THICKNESS	CONN. OF BLKG. OR FRAMING TO TOP PLATE, AND SILE PLATE TO SILL PLATE			ANCHOR BOLTS TO CONC.		ASD CAPACITY, PLF
				4"ø x 3 1/2" SDS SCREWS	A35 CLIPS	LTP4 PLATES	5/8"ø	3/4"ø	
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	13" oc	29" oc	40" oc	600
SW-2	1/2"	2" oc	3x	6" oc	10" oc	8" oc	19" oc	20" oc	770
SW-44	1/2"	4" oc EA. SIDE	3x	8" oc	10" oc	8" oc	14" oc	20" 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 7 1/8" AT INTERIOR SHEARWALLS ONLY, 1 1/2" OSB SHALL 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 10d FACE: @ 3" oc FOR SW-4 AND @ 2 1/2" oc FOR SW-3 (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 (625#/CLIP)
- LTP4 LATERAL TIE PLATES MAY BE INSTALLED OVER SHEATHING w/ (12)0.131 x 2 1/2" NAILS (625#/CLIP)
- CONTRACTOR SHALL USE LTP4 PLATES FROM SHEATHING TO RIM ~OR~ SDS SCREWS FROM SHEATHING TO RIM  
 CONTRACTOR SHALL USE A35 CLIPS FROM RIM TO STUDWALL DOUBLE TOP PLATE ~OR~ LTP4 PLATES FROM SHEATHING TO STUDWALL DOUBLE TOP PLATE.
- PLATE WASHERS IN 2x4 STUD WALLS AND ALL SINGLE SIDED SHEARWALLS SHALL BE 3"x3"x0.229". DOUBLE SIDED 2x6 SHEARWALLS 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. PROVIDE ADDITIONAL ANCHOR BOLTS AT EACH SIDE OF PLATE BREAKS AND PENETRATIONS EXCEEDING THE "NO REINFORCING" HOLE SIZE PER 2/S6.1.



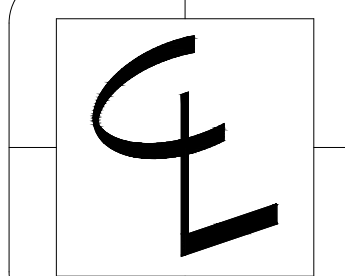
1 SHEARWALL SECTION AND SCHEDULE  
 S6.5 1" = 1'-0"



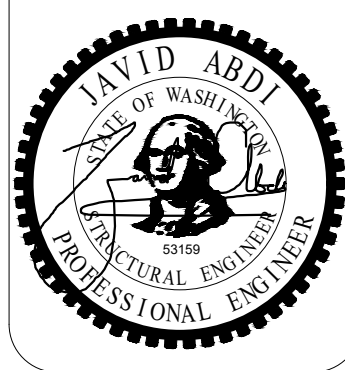
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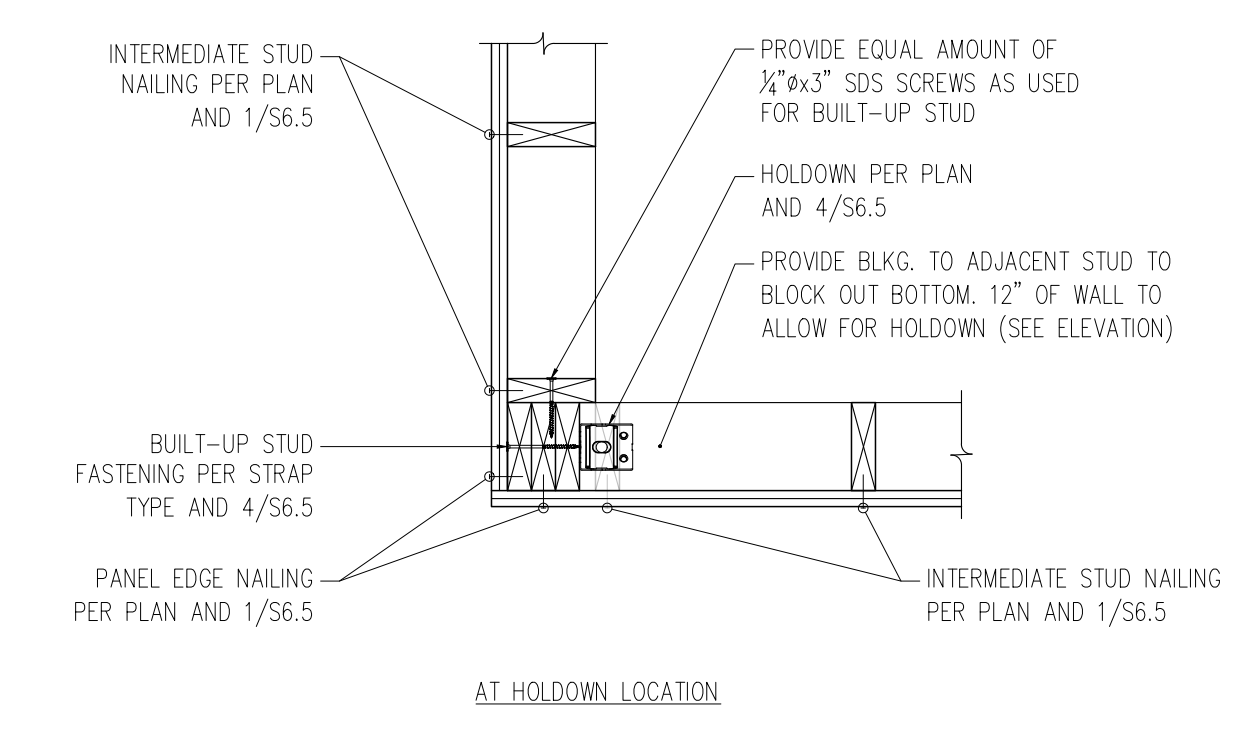
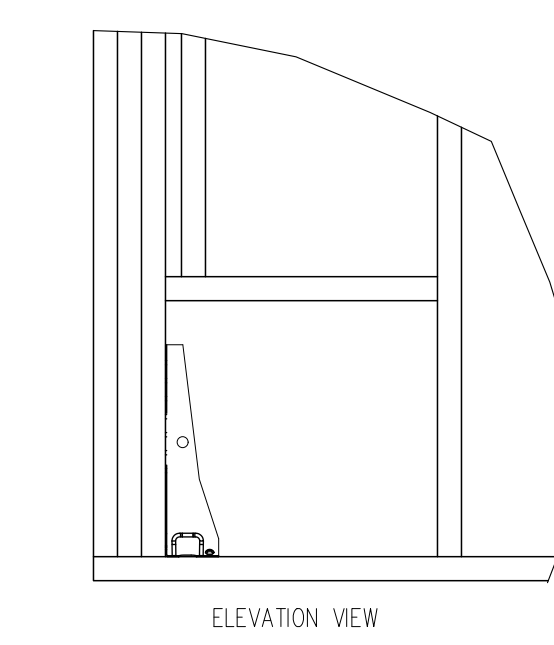
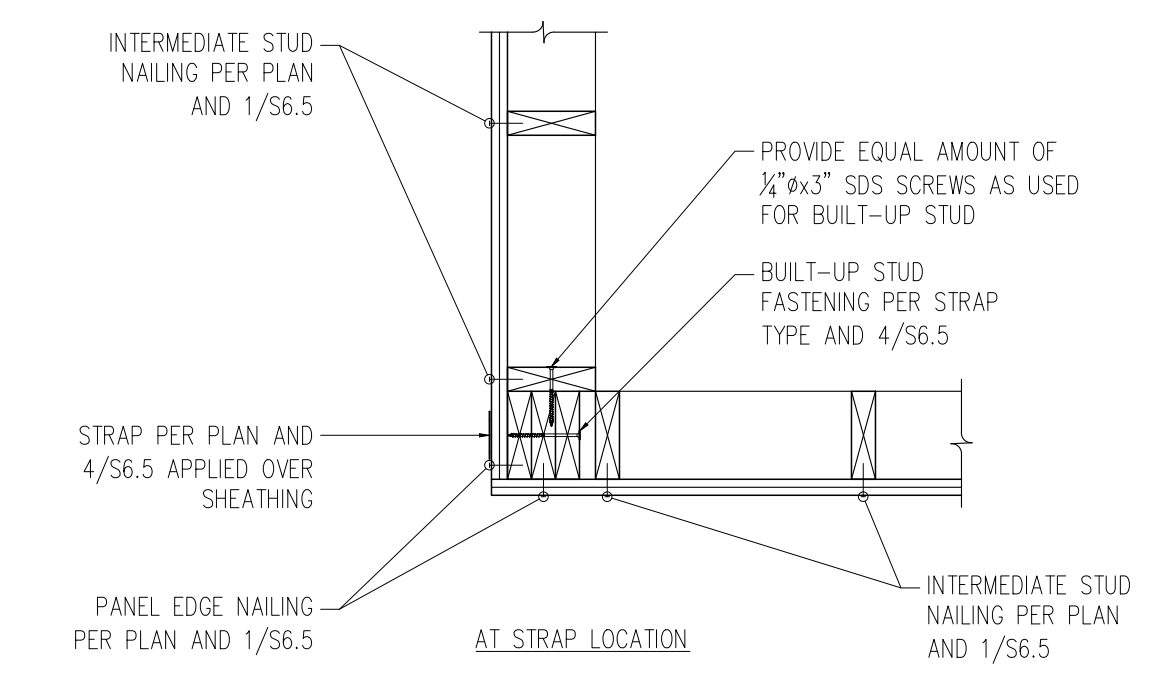
S6.5



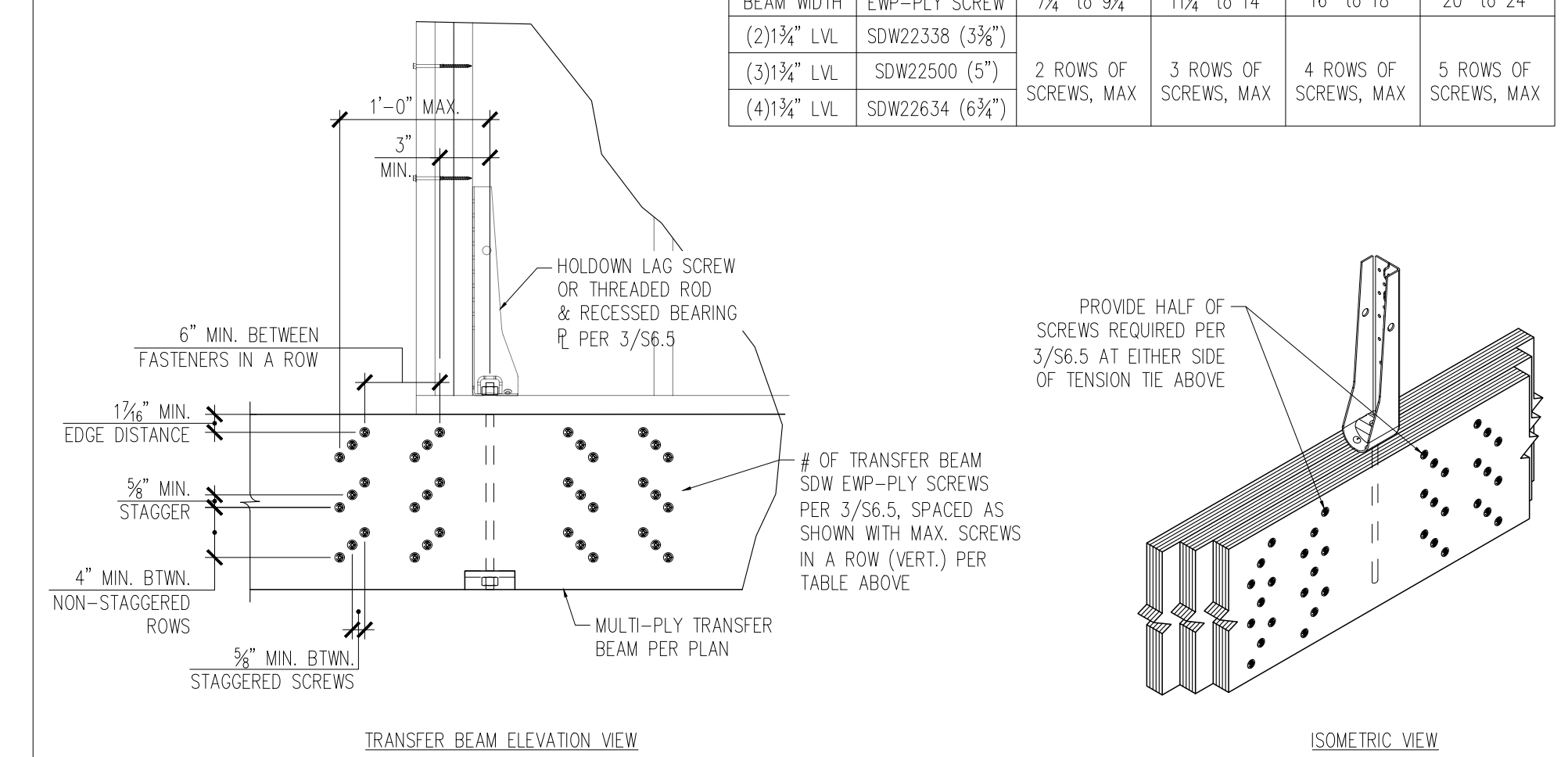
**ATLAS**  
CONSULTING  
STRUCTURAL  
ENGINEERS



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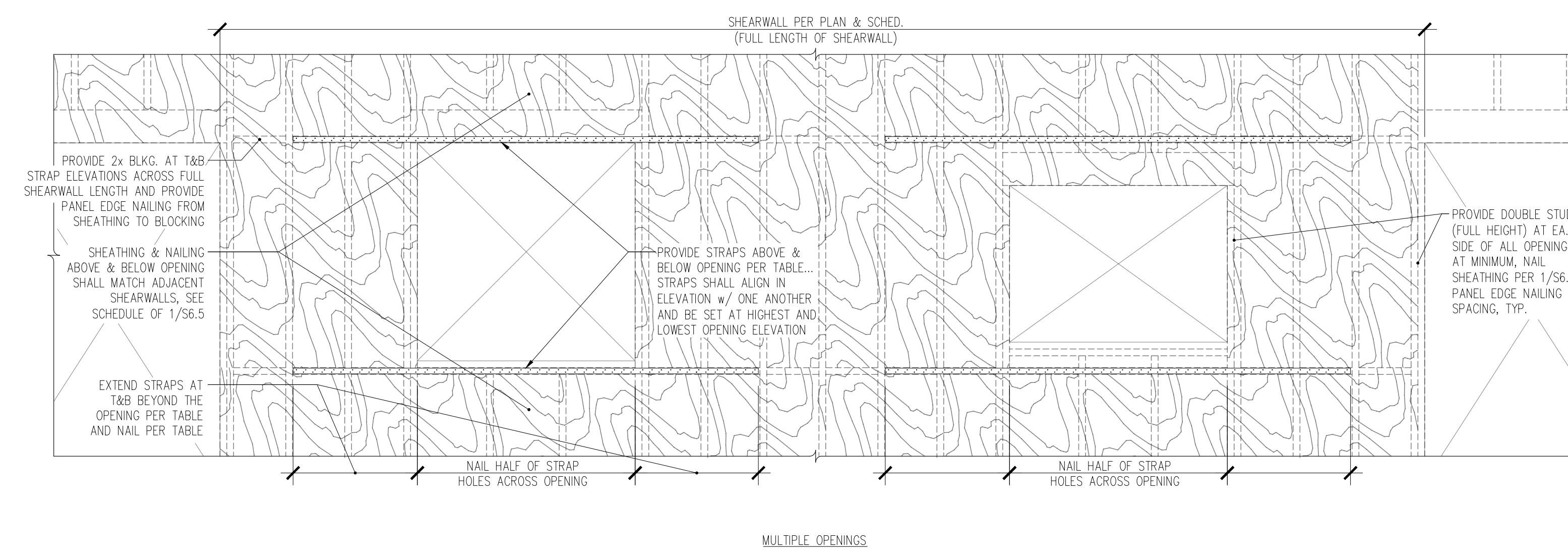


TRANSFER BEAM WIDTH	SIMPSON SDW EWP-PLY SCREW	TRANSFER BEAM DEPTH			
		7 1/2" to 9 1/2"	11 1/2" to 14"	16" to 18"	20" to 24"
(2) 1 3/4" LVL	SDW22338 (3 3/8")	2 ROWS OF SCREWS, MAX	3 ROWS OF SCREWS, MAX	4 ROWS OF SCREWS, MAX	5 ROWS OF SCREWS, MAX
(3) 1 3/4" LVL	SDW22500 (5")				
(4) 1 3/4" LVL	SDW22634 (6 3/4")				

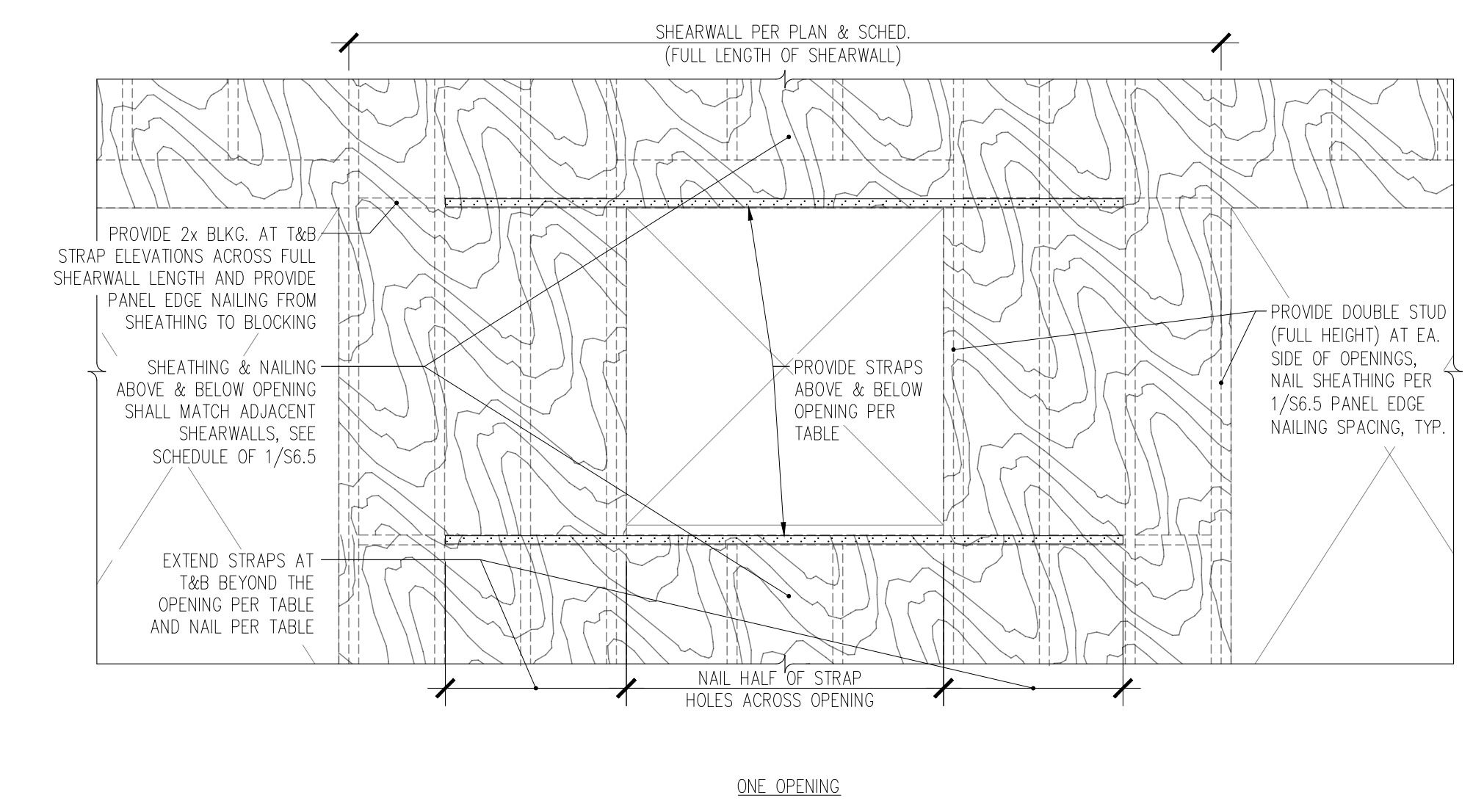


5 MULTI-PLY TRANSFER BEAM CONNECTION DETAILS  
S6.6 1" = 1'-0"

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



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



ONE OPENING

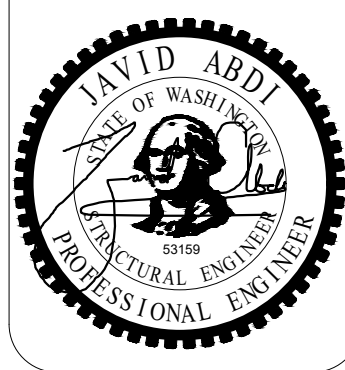
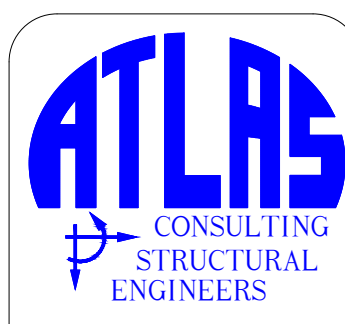
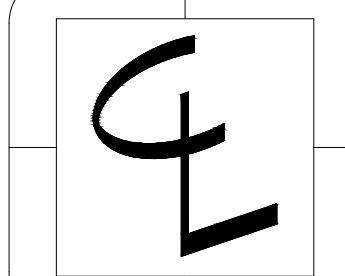
TYPE	STRAP	END LENGTH	NAILS
1	CS20	16"	(12) 0.148" x 2 1/2"
2	CS20	24"	(12) 0.148" x 2 1/2"
3	CS20	30"	(12) 0.148" x 2 1/2"
4	CS18	24"	(16) 0.148" x 2 1/2"
5	CS18	30"	(16) 0.148" x 2 1/2"
6	CS18	34"	(16) 0.148" x 2 1/2"
7	CS16	70"	(20) 0.148" x 2 1/2"
8	CS16	45"	(20) 0.148" x 2 1/2"

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S6.6

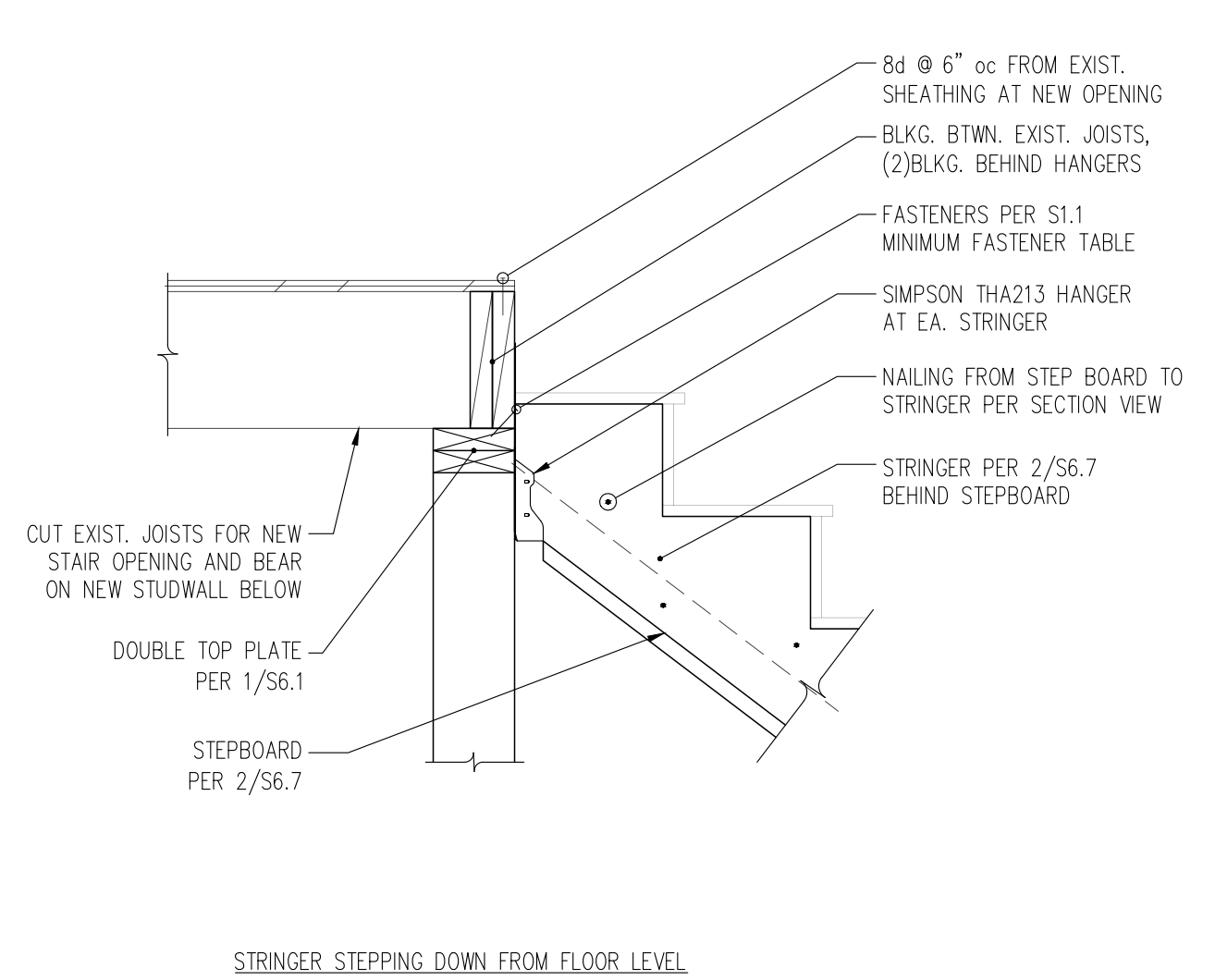


**Wu-Chang Residence**  
 2956 72nd Ave SE - Mercer Island

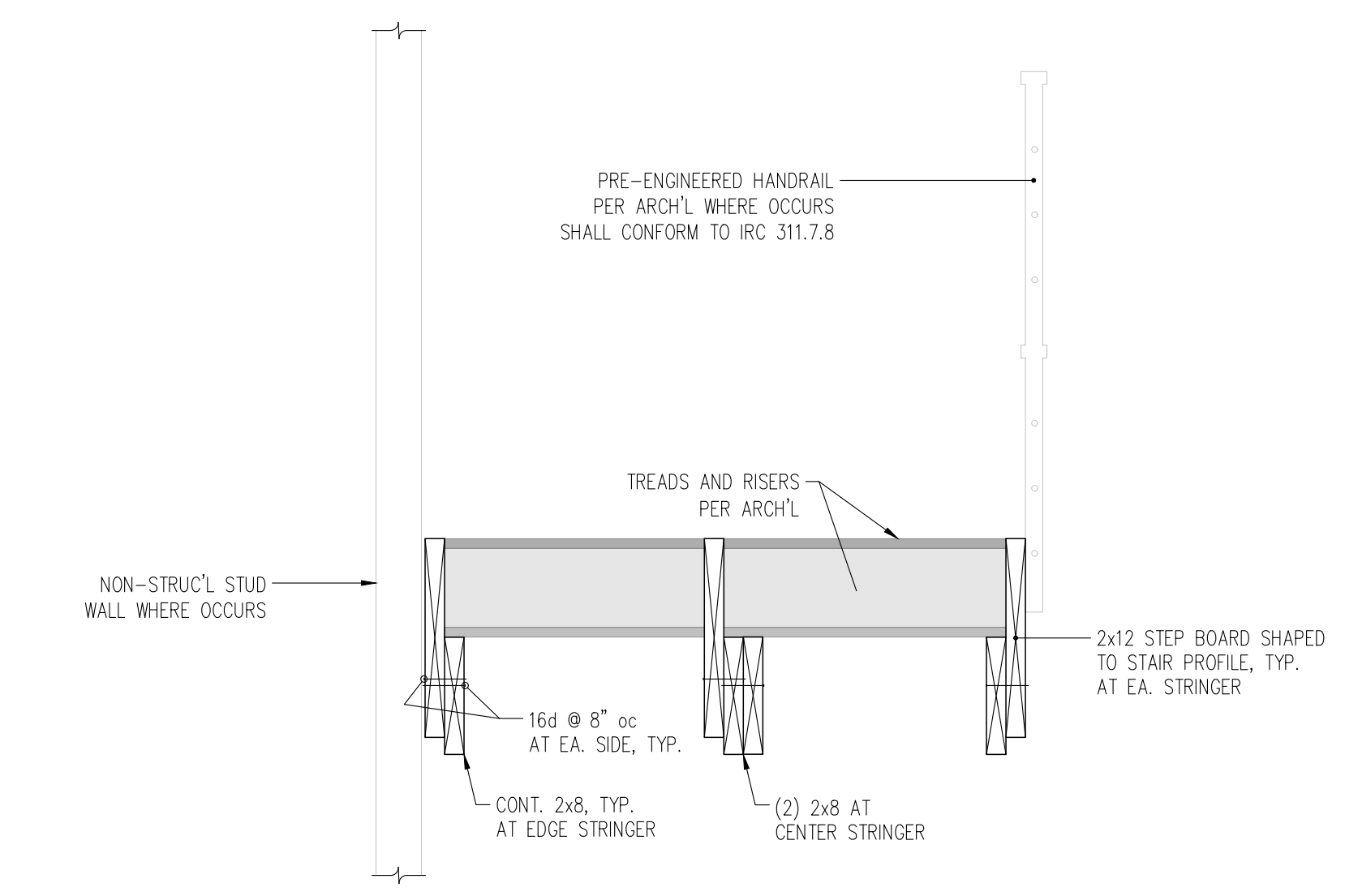
**CONTENTS**  
 Typical Stair  
 Details

**DRAWN BY**  
 JDA  
**DATE**  
 03.05.24

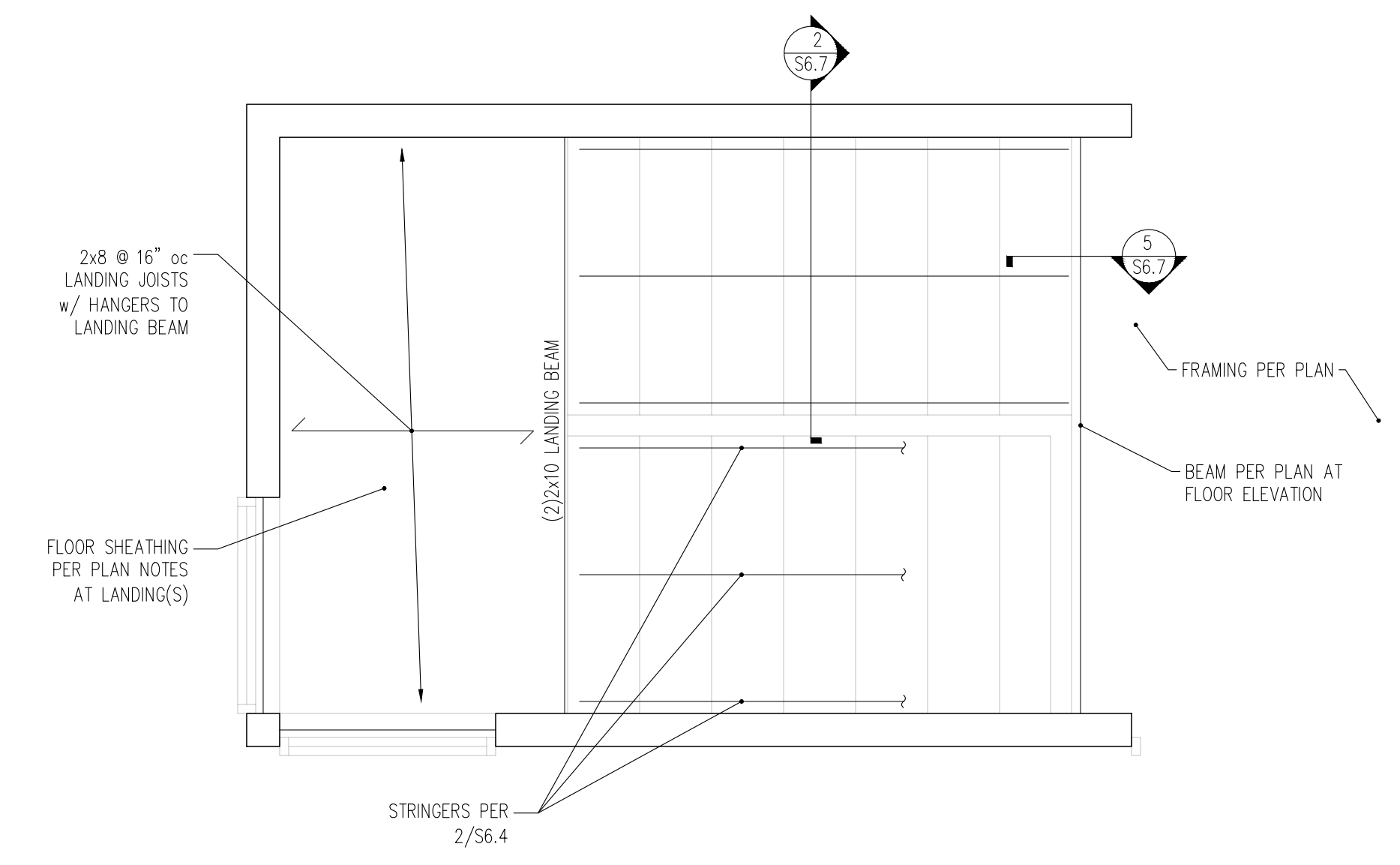
**S6.7**



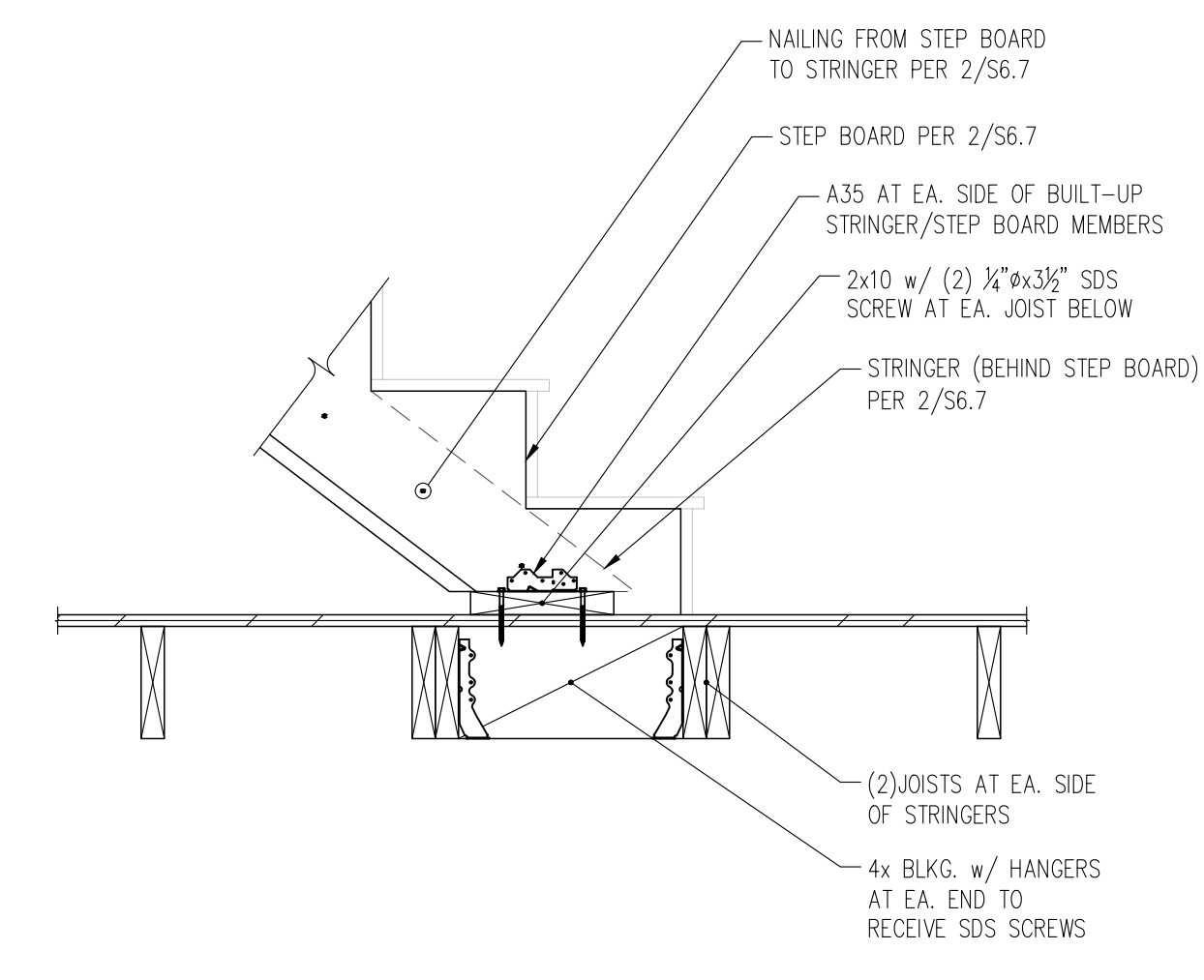
**5**  
 S6.7 ELEVATION OF STRINGER TO SUPPORT MEMBER  
 1" = 1'-0"



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



**4**  
 S6.7 TYPICAL STAIR FRAMING/LANDING PLAN VIEW  
 1" = 1'-0"



**1**  
 S6.7 ELEVATION VIEW OF STAIR STRINGERS BEARING ATOP FRAMING  
 1" = 1'-0"

**LEGAL DESCRIPTION**

LOT B, CITY OF MERCER ISLAND SHORT PLAT NO. ML 76-6-021, AS RECORDED UNDER RECORDING NO. 7607020565, RECORDS OF KING COUNTY, WASHINGTON.

SITUATE IN THE CITY OF MERCER ISLAND, COUNTY OF KING, STATE OF WASHINGTON.

**ORGANIC SOIL REQUIREMENT**

**MINIMUM 10% ORGANIC MULCH & COMPOST SOIL REQUIRED**

**TREE PROTECTION DETAIL**

**TREE PROTECTION AREA (TPZ)**

**KEEP OUT!**

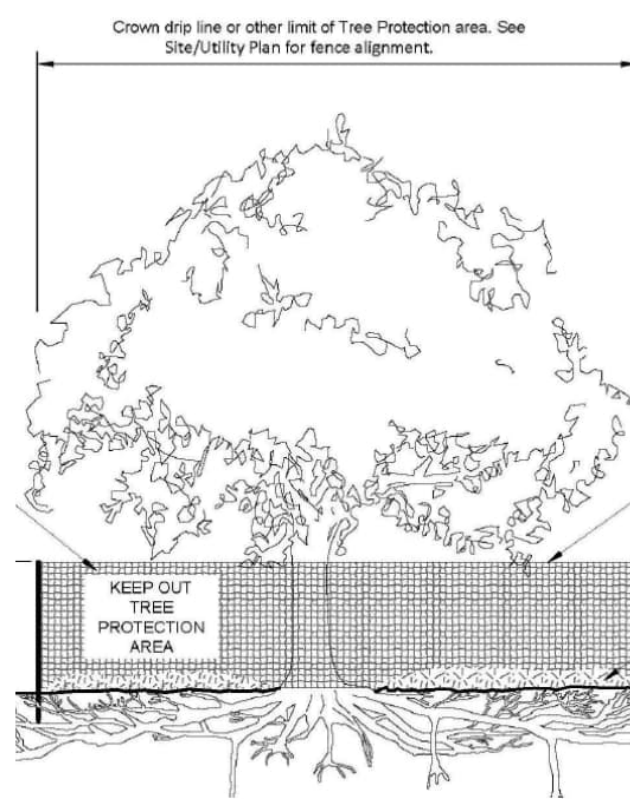
**DO NOT REMOVE OR ADJUST THE APPROVED LOCATION OF THIS TREE PROTECTION AREA**

Trees enclosed by this fence are protected and are subject to the conditions of the tree permit. Violation of tree conditions may lead to:

1. Correction Notices or Stop Work Orders until compliance is achieved
2. RE Inspection Fees/financial penalties
3. Arborist reports recommending mitigation

**Notes**

1. No pruning shall be performed unless under the direction of the Project Arborist. Including limbing trees up.
2. No grading, excavation, storage (materials, equipment, vehicles, etc.), or other unpermitted activity shall occur inside the protective fencing.
3. Penalties for damaging by root damage/compaction or removing a saved tree may be a fine up to three times the value of the tree plus restoration (MICC 19.10.160).
4. Any work in approved TPZ must be with the permission of the City Arborist (206) 275-7713, [john.kenney@mercergov.org](mailto:john.kenney@mercergov.org).
5. 5" course woodchips within the tree protection zone, but not against the tree trunk.



Tree protection fence: 4-6" chain link fence, solidly anchored into the ground, or if authorized High-density polyethylene fencing with 3.5" x 1.5" openings, color orange. Steel posts installed at 8' o.c.

2" x 6" steel posts or approved equal

Maintain existing grade with the tree protection fence unless otherwise indication on the plans

Any Work in the protected area must be with the permission of the City Arborist [john.kenney@mercergov.org](mailto:john.kenney@mercergov.org)

**EROSION CONTROL LEGEND**

LIMITS OF DISTURBANCE	
FILTER FABRIC FENCE (SILT FENCE)	(SF)
STABILIZED CONSTRUCTION ENTRANCE	(CE)
CATCH BASIN INLET PROTECTION	(IP)
INTERCEPTOR SWALE SEE COR DWG 504, TYPE A TEMPORARY SWALE	(IS)
TREE PROTECTION FENCING	(TP)
CHECK DAM	(CD)
STRAW WATTLES	(SW)
PLASTIC COVERING	(PC)
COMPOST SOCK	(CS)
COMPOST BERM	(CB)
DUST CONTROL	(DC)
MULCHING, MATTING, & COMPOST RIBNETS	(MU)

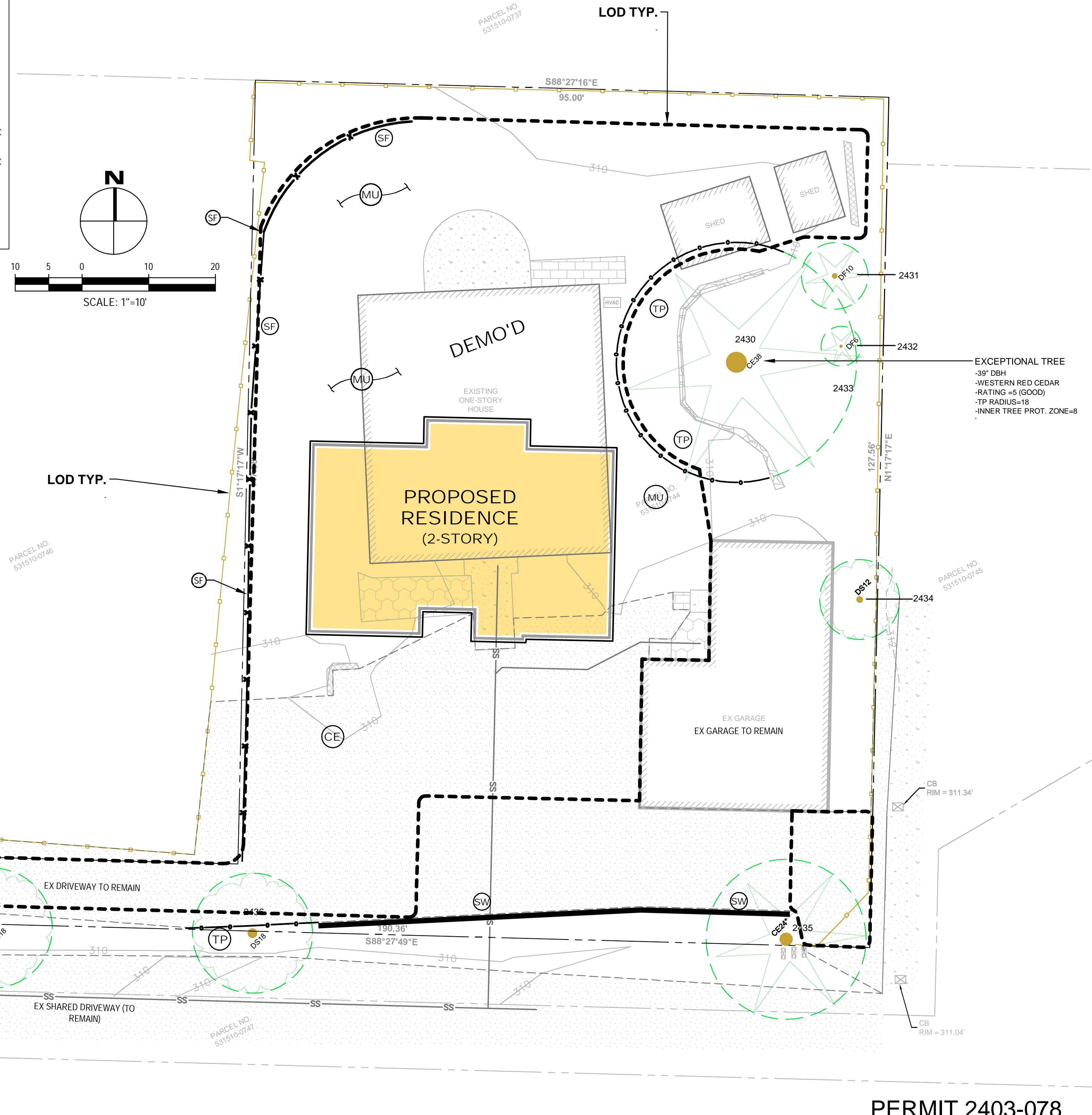
**SOIL AMENDMENT REQUIRED**

COMPOST AMENDED SOIL REQUIRED ON ALL LANDSCAPED AREAS AFTER CONSTRUCTION. SEE DETAIL ON C3.5.

ESTIMATED TOPSOIL IMPORT = 45 CY

**SOIL INSPECTION REQUIRED BY ENGINEER**

A POST CONSTRUCTION INSPECTION & CERTIFICATION OF AMENDED SOILS IS REQUIRED BY A LICENSED CIVIL ENGINEER. THIS IS REQUIRED BEFORE FINAL SIGN-OFF BY CITY.



**PROJECT ARBORIST**

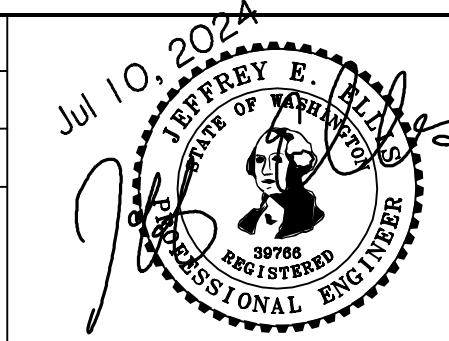
DOUGLAS SMITH  
SEATTLE TREE CONSULTING  
REPORT DATE: FEBRUARY 27, 2024

PERMIT 2403-078

NO.	DATE	BY	REVISIONS

<p>APPLICANT LEI WU AND INGRID CHANG 2956 72nd AVENUE SE MERCER ISLAND, WA 98040</p>	<p>DATE: Jul 10, 2024 JOB#: 2094 DRAFTED: SS DESIGN: SS DIGITAL SIGNATURE</p>
--	---

DATE: Jul 10, 2024  
JOB#: 2094  
DRAFTED: SS DESIGN: SS  
DIGITAL SIGNATURE



**CIVIL ENGINEERING SOLUTIONS**  
701 N 36th STREET, SUITE 450 SEATTLE, WA 98103  
206.930.0342 [DUFFY@CESOLUTIONS.US](mailto:DUFFY@CESOLUTIONS.US)

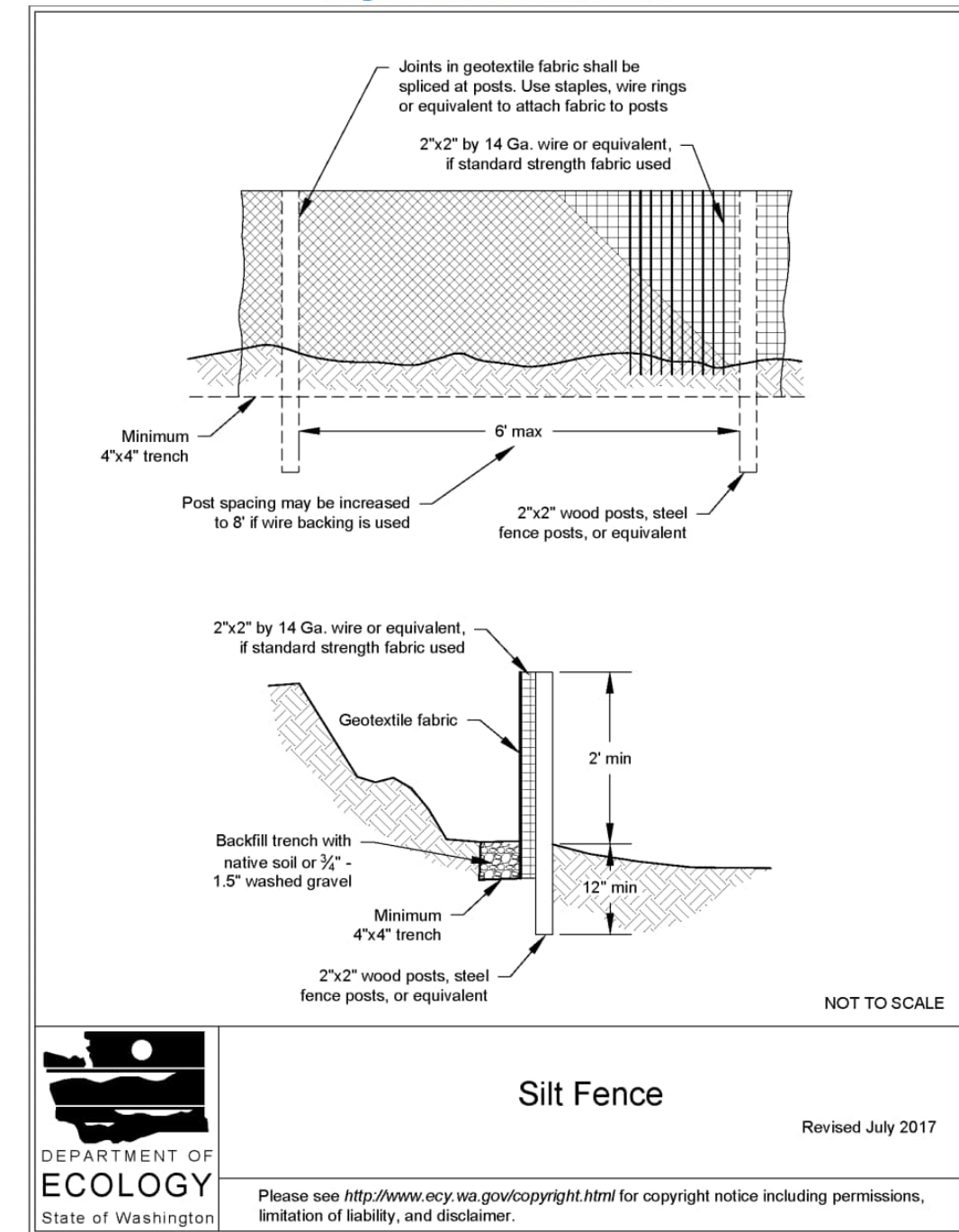
**TESC PLAN**  
WU/CHANG RESIDENCE  
2956 72nd AVENUE SE, MERCER ISLAND, WA 98040

DRAWING NO: <b>C1.0</b>
APN 531510-0744

**SILT FENCE DETAIL**

DOE

**Figure II-3.22: Silt Fence**



**Silt Fence**  
Revised July 2017  
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**RECOMMENDED CONSTRUCTION SEQUENCE**

A DETAILED CONSTRUCTION SEQUENCE IS NEEDED TO ENSURE THAT EROSION AND SEDIMENT CONTROL MEASURES ARE APPLIED AT THE APPROPRIATE TIMES. A RECOMMENDED CONSTRUCTION SEQUENCE IS PROVIDED BELOW:

- HOLD AN ONSITE PRE-CONSTRUCTION MEETING.
- POST SIGN WITH NAME AND PHONE NUMBER OF ESC SUPERVISOR (MAY BE CONSOLIDATED WITH THE REQUIRED NOTICE OF CONSTRUCTION SIGN).
- FLAG OR FENCE CLEARING LIMITS.
- INSTALL CATCH BASIN PROTECTION, IF REQUIRED.
- GRADE AND INSTALL CONSTRUCTION ENTRANCE(S).
- INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).
- CONSTRUCT SEDIMENT PONDS AND TRAPS.
- GRADE AND STABILIZE CONSTRUCTION ROADS.
- CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT.
- MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH CITY OF MERCER ISLAND STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
- RELOCATE SURFACE WATER CONTROLS OR TESC MEASURES, OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, THE TESC IS ALWAYS IN ACCORDANCE WITH CITY OF MERCER ISLAND TESC REQUIREMENTS.
- COVER ALL AREAS THAT WILL BE UN-WORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON (MAY 1 TO SEPT 30) OR TWO DAYS DURING THE WET SEASON (OCT 1 TO APRIL 30) WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING, OR EQUIVALENT.
- STABILIZE ALL AREAS WITHIN SEVEN DAYS OF REACHING FINAL GRADE.
- SEED, SOD, STABILIZE, OR COVER ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.
- UPON COMPLETION OF THE PROJECT, STABILIZE ALL DISTURBED AREAS AND REMOVE BMP'S IF APPROPRIATE.

**EROSION CONTROL NOTES**

D.8.2 STANDARD ESC PLAN NOTES  
THE STANDARD ESC PLAN NOTES MUST BE INCLUDED ON ALL ESC PLANS. AT THE APPLICANT'S DISCRETION, NOTES THAT IN NO WAY APPLY TO THE PROJECT MAY BE OMITTED; HOWEVER, THE REMAINING NOTES MUST NOT BE RENUMBERED. FOR EXAMPLE, IF ESC NOTE #3 WERE OMITTED, THE REMAINING NOTES SHOULD BE NUMBERED 1, 2, 4, 5, 6, ETC.

- APPROVAL OF THIS EROSION AND SEDIMENTATION 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 SURVEY TAPE OR FENCING, IF REQUIRED, PRIOR TO CONSTRUCTION (SWDM APPENDIX D). 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.
- STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS CONSTRUCTED WHEEL WASH SYSTEMS OR WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN AND TRACK OUT TO ROAD RIGHT OF WAY DOES NOT OCCUR FOR THE DURATION OF THE PROJECT.
- 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 COVER MEASURES, ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, PERIMETER PROTECTION ETC.) AS DIRECTED BY CITY OF MERCER ISLAND.
- 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.
- ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO CONSECUTIVE 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 THAT DO NOT REQUIRE IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN SEVEN (7) DAYS.
- THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH DURING THE DRY SEASON, BI-MONTHLY DURING THE WET SEASON, OR WITHIN TWENTY FOUR (24) 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.
- ANY PERMANENT RETENTION/DETENTION 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 ROUGH GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEET ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY.
- COVER MEASURES WILL BE APPLIED IN CONFORMANCE WITH APPENDIX D OF THE SURFACE WATER DESIGN MANUAL.
- 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.

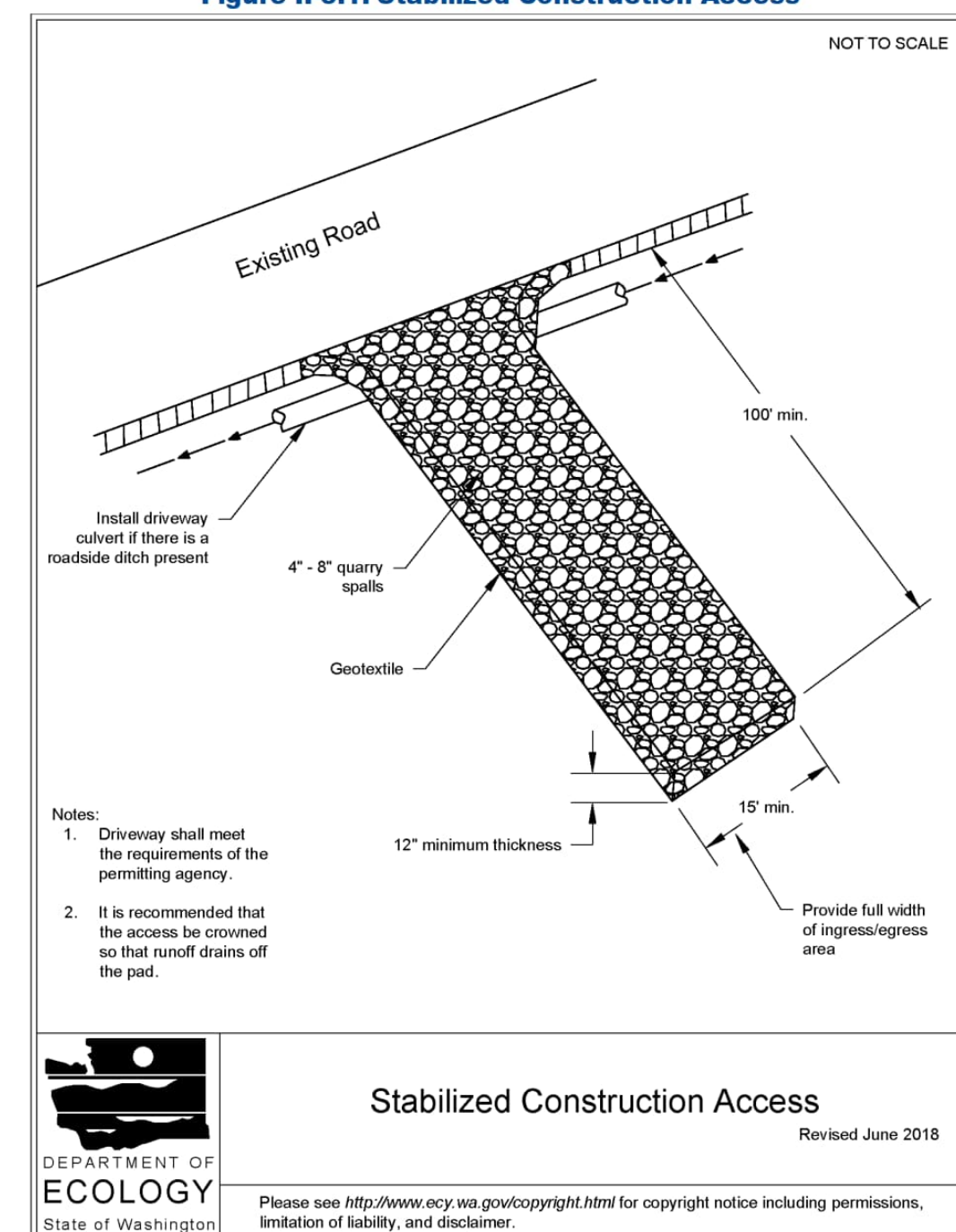
**CITY NOTES**

- ANY CHANGES TO THE APPROVED PLANS REQUIRES CITY APPROVAL THROUGH A REVISION.
- APPLICANT IS RESPONSIBLE FOR ANY DAMAGES TO UNDERGROUND UTILITIES CAUSED FROM THIS CONSTRUCTION.
- CATCH BASIN FILTERS SHOULD BE PROVIDED FOR ALL STORM DRAIN CATCH BASINS/INLETS DOWNSLOPE AND WITHIN 500 FEET OF THE CONSTRUCTION AREA. CATCH BASIN FILTERS SHOULD BE DESIGNED BY THE MANUFACTURER FOR USE AT CONSTRUCTION SITES AND APPROVED BY THE CITY INSPECTOR. CATCH BASIN FILTERS SHOULD BE INSPECTED FREQUENTLY, ESPECIALLY AFTER STORM EVENTS. IF THE FILTER BECOMES CLOGGED, IT SHOULD BE CLEANED OR REPLACED.
- CONTRACTORS SHALL VERIFY LOCATIONS AND DEPTHS OF UTILITIES.
- AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, CALL "ONE CALL" AT 1.800.424.5555
- DO NOT BACKFILL WITH NATIVE MATERIAL ON PUBLIC RIGHT-OF-WAY. ALL MATERIAL MUST BE IMPORTED
- EROSION CONTROL: ALL "LAND DISTURBING ACTIVITY" IS SUBJECT TO PROVISIONS OF MERCER ISLAND ORDINANCE 95C-118 "STORM WATER MANAGEMENT." SPECIFIC ITEMS TO BE FOLLOWED AT YOUR SITE.
- PROTECT ADJACENT PROPERTIES FROM ANY INCREASED RUNOFF OR SEDIMENTATION DUE TO THE CONSTRUCTION PROJECT THROUGH THE USE OF APPROPRIATE "BEST MANAGEMENT PRACTICES" (BMP) EXAMPLES INCLUDE, BUT ARE NOT LIMITED TO, SEDIMENT TRAPS, SEDIMENT PONDS, FILTER FABRIC FENCES, VEGETATIVE BUFFER STRIPS OR BIOENGINEERED SWALES.
- CONSTRUCTION ACCESS TO THE SITE SHOULD BE LIMITED TO ONE ROUTE. STABILIZE ENTRANCE WITH QUARRY SPALLS TO PREVENT SEDIMENT FROM LEAVING THE SITE OR ENTERING THE STORM DRAINS.
- PREVENT SEDIMENT, CONSTRUCTION DEBRIS, PAINTS, SOLVENTS, ETC., OR OTHER TYPES OF POLLUTION FROM ENTERING PUBLIC STORM DRAINS. KEEP ALL POLLUTION ON YOUR SITE.
- ALL EXPOSED SOILS SHALL REMAIN DENUDED FOR NO LONGER THAN SEVEN (7) DAYS AND SHALL BE STABILIZED WITH MULCH, HAY, OR THE APPROPRIATE GROUND COVER. ALL EXPOSED SOILS SHALL BE COVERED IMMEDIATELY DURING ANY RAIN EVENT.
- INSTALLATION OF CONCRETE DRIVEWAYS, TREES, SHRUBS, IRRIGATION, BOULDERS, BERMS, WALLS, GATES, AND OTHER IMPROVEMENTS ARE NOT ALLOWED IN THE PUBLIC RIGHT OF WAY WITHOUT PRIOR APPROVAL AND AN ENCROACHMENT AGREEMENT AND RIGHT OF WAY PERMIT FROM THE SENIOR DEVELOPMENT ENGINEER.
- OWNER SHALL CONTROL DISCHARGE OF SURFACE DRAINAGE RUNOFF FROM EXISTING AND NEW IMPERVIOUS AREAS IN A RESPONSIBLE MANNER. CONSTRUCTION OF NEW GUTTERS AND DOWNSPOUTS, DRY WELLS, LEVEL SPREADERS OR DOWNSTREAM CONVEYANCE PIPE MAY BE NECESSARY TO MINIMIZE DRAINAGE IMPACT TO YOUR NEIGHBORS. CONSTRUCTION OF MINIMUM DRAINAGE IMPROVEMENTS SHOWN OR CALLED OUT ON THIS PLAN DOES NOT IMPLY RELIEF FROM CIVIL LIABILITY FOR YOUR DOWNSTREAM DRAINAGE.
- POT HOLING THE PUBLIC UTILITIES IS REQUIRED PRIOR TO ANY GRADING ACTIVITIES LESS THAN 6" OVER THE PUBLIC MAINS (WATER, SEWER AND STORM SYSTEMS). IF THERE IS A CONFLICT, THE APPLICANT IS REQUIRED TO SUBMIT A REVISION FOR APPROVAL PRIOR TO ANY GRADING ACTIVITIES OVER THE PUBLIC MAINS.
- REMEMBER: EROSION CONTROL IS YOUR FIRST INSPECTION.
- ROOF DRAINS MUST BE CONNECTED TO THE STORM DRAIN SYSTEM AND INSPECTED BY THE PUBLIC WORKS DEPARTMENT PRIOR TO ANY BACKFILLING OF PIPE.
- SILENT FENCE: CLEAN AND PROVIDE REGULAR MAINTENANCE OF THE SILT FENCE. THE FENCE IS TO REMAIN VERTICAL AND IS TO FUNCTION PROPERLY THROUGHOUT THE TERM OF THE PROJECT.
- WORK IN PUBLIC RIGHT OF WAY REQUIRES A RIGHT-OF-WAY USE PERMIT.
- REFER TO WATER SERVICE PERMIT FOR ACTUAL LOCATION OF NEW WATER METER AND SERVICE LINE DETERMINED BY MERCER ISLAND WATER DEPARTMENT.
- THE TV INSPECTION OF THE EXISTING SIDE SEWER TO THE CITY SEWER MAIN IS REQUIRED. IF THE RESULT OF THE TV INSPECTION IS NOT IN SATISFACTORY CONDITION, AS DETERMINED BY THE CITY OF MERCER ISLAND INSPECTOR, THE REPLACEMENT OF THE EXISTING SIDE SEWER IS REQUIRED. ALTERNATELY, A PRESSURE TEST OF THE SIDE SEWER, FROM SEWER MAIN TO POINT OF CONNECTION, MAY BE SUBSTITUTED FOR THE VIDEO INSPECTION.
- NEWLY INSTALLED SIDE SEWER REQUIRES A 4 P.S.I. AIR TEST OR PROVIDE 10' OF HYDROSTATIC HEAD TEST.
- POT HOLING THE PUBLIC UTILITIES IS REQUIRED PRIOR TO ANY GRADING ACTIVITIES LESS THAN 6" OVER THE PUBLIC MAINS (WATER, SEWER AND STORM SYSTEMS). IF THERE IS A CONFLICT, THE APPLICANT IS REQUIRED TO SUBMIT A REVISION FOR APPROVAL PRIOR TO ANY GRADING ACTIVITIES OVER THE PUBLIC MAINS.
- THE LIMITS AND EXTENDS OF THE PAVEMENT IN THE PUBLIC RIGHT OF WAY SHALL BE DETERMINED BY THE CITY ENGINEER PRIOR TO FINALIZE THE PROJECT.

**CONSTRUCTION ENTRANCE**

DOE

**Figure II-3.1: Stabilized Construction Access**



**Stabilized Construction Access**  
Revised June 2018  
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Volume II - Chapter 3 - Page 279

**DENUDED AREAS REQUIREMENTS**

APRIL 1 TO SEPT 30  
ALL DENUDED AREAS MUST BE STABILIZED WITHIN 7 DAYS OF CONSTRUCTION. PLEASE READ ALL CITY TESC NOTES ON SHEET C1.2.

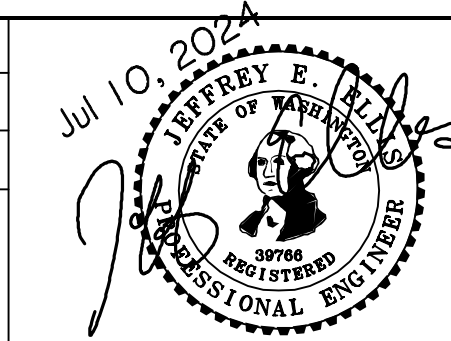
OCT 1 TO MARCH 31  
ALL DENUDED AREAS MUST BE STABILIZED WITHIN 2 DAYS OF GRADING. IF AN EROSION PROBLEM ALREADY EXISTS ON THE SITE, OTHER COVER PROTECTION AND EROSION CONTROL WILL BE REQUIRED.

PERMIT 2403-078

NO.	DATE	BY	REVISIONS

<p><b>APPLICANT</b> LEI WU AND INGRID CHANG 2956 72nd AVENUE SE MERCER ISLAND, WA 98040</p>
---

DATE: Jul 10, 2024
JOB# 2094
DRAFTED: SS DESIGN: DE
DIGITAL SIGNATURE



**CIVIL ENGINEERING SOLUTIONS**  
701 N 36th STREET, SUITE 450 SEATTLE, WA 98103  
206.930.0342 [DUFFY@CESOLUTIONS.WA](mailto:DUFFY@CESOLUTIONS.WA)

**TESC & CITY NOTES**  
**TESC DETAILS**  
WU/CHANG RESIDENCE  
2956 72nd AVENUE SE, MERCER ISLAND, WA 98040

DRAWING NO: <b>C1.2</b>
APN 531510-0744

**SANITARY SEWER IMPROVEMENTS**

- 1 -
- 2 - 6" SDR 35 PVC SANITARY SEWER(SS) @ MIN 1.0 %
- 3 -
- 4 -
- 7 - LOCATE AND VIDEO CONDITION OF EXISTING SANITARY SIDE SEWER. REPLACE LINE IF FOUND DEFECTIVE AS DETERMINED BY CITY INSPECTOR.

**WATER IMPROVEMENTS**

- 10 -
- 11 - 2" WATER SERVICE REQUIRED DUE TO FIRE FLOW REQUIREMENT (LACK OF NEARBY FH). USE 250 PSI PRIVATE HDPE WATER (ASTM D2239) OR PE-XB 3306 (CTS), SDR 9, AWWA C901 OR EQUAL FROM METER TO HOUSE. RECOMMENDED DEPTH=36".
- 12 -
- 14 -

**STORM DRAIN**

- 20 - 4" STORM DRAIN (3034 PVC) @ MIN 2 % GRADE
- 21 - 4" FOUNDATION DRAIN (3034 PVC) @ MIN 1 % GRADE
- 22 - 6" STORM DRAIN (3034 PVC) @ MIN 1 % GRADE
- 23 -
- 24 -
- 25 -
- 26 -
- 28 -
- 29 -

**STORM DRAIN STRUCTURES**

- 30 - TYPE 1 CB WITH STANDARD GRATE.
- 31 -
- 32 - TYPE 1 CB WITH SOLID LID
- 33 -
- 34 -
- 35 - MIN 18" ID YARD DRAIN (OR EQUAL) WITH SOLID LID
- 36 -
- 38 -
- 39 -
- 40 - PRIVATE TYPE 40 CATCH BASIN OR EQUAL. INCLUDE OIL TEE (OR INVERTED ELBOW) IN DRIVEWAY LOCATIONS.
- 41 -
- 43 -
- 46 -
- 47 -
- 48 - FOOTING DRAIN SUMP PUMP: USE 1/3 HP HYDROMATIC SUMP PUMP OR EQUAL. 120V, 1/3 HP, SINGLE PHASE, 8.0 AMP 1-1/2" DISCHARGE. PLACE IN 24" GREEN ULTRA-RIB PVC PIPE OR EQUAL.

**STORM BMP'S**

- 50 - COMPOST AMENDED SOIL TO ALL DISTURBED AREAS (SEE DETAIL SHEET C3.5). TILL 2-3" OF COMPOST INTO UPPER 8" OF SOIL. LOOSEN COMPACTED SUBSOIL, IF NEEDED BY RIPPING TO 12" DEPTH. MULCH LANDSCAPE BEDS AFTER PLANTING.
- 51 -
- 52 -
- 53 -
- 54 -
- 55 -
- 56 -
- 57 - PERMEABLE PAVER SURFACE (PATIO) PER DOE DETAIL. MIN. 4" DEEP RESERVOIR COURSE. SEE DETAIL ON C3.5.
- 58 -

**STREET IMPROVEMENTS**

- 71 - PAVEMENT RESTORATION - COORDINATE SCOPE OF PAVEMENT RESTORATION WITH CITY INSPECTOR

**SOILS**

NO REPORT FOR THIS PROJECT, TO ENGINEER'S KNOWLEDGE  
 MERCER ISLAND SHOWS GLACIAL TILL  
 MERCER ISLAND INFILTRATION MAP SHOWS MODERATE POTENTIAL

**SURVEYOR**

TOPOGRAPHIC SURVEY BY:  
 SITE SURVEY  
 2123 NE 11th STREET  
 SAMMAMISH, WA 98074  
 PHONE 425-298-4412  
 www.sitesurveymapping.com

**VERTICAL DATUM**

NAVD 88 PER WCCS SURVEY CONTROL DATABASE  
 SEE SURVEY

**LEGAL DESCRIPTION**

SEE C1.0

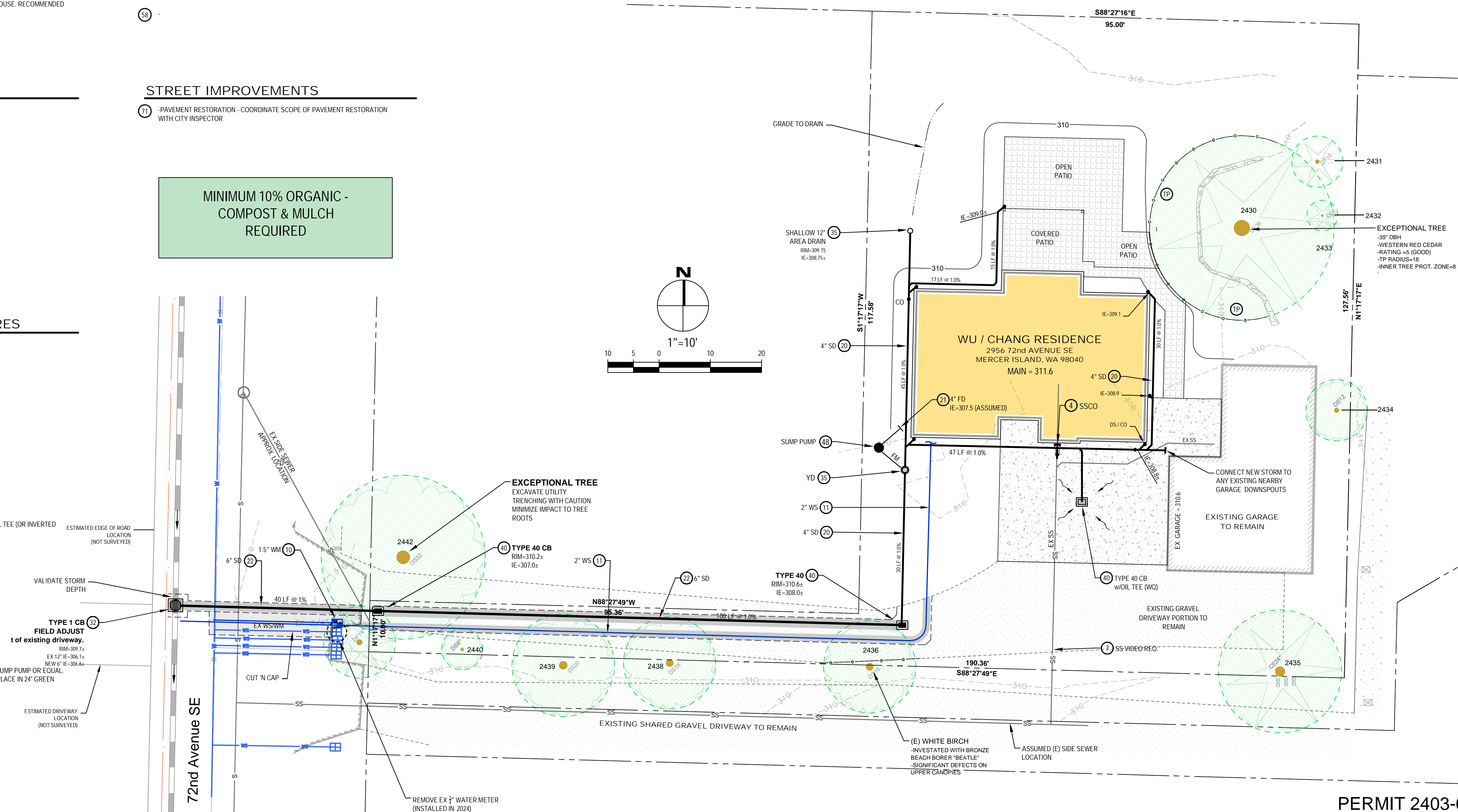
**SOIL AMENDMENT REQUIRED**

COMPOST AMENDED SOIL REQUIRED ON ALL LANDSCAPED AREAS AFTER CONSTRUCTION.  
 SEE DETAIL ON C3.5.

**SOIL INSPECTION REQUIRED BY ENGINEER**

A POST CONSTRUCTION INSPECTION & CERTIFICATION OF AMENDED SOILS IS REQUIRED BY A LICENSED CIVIL ENGINEER. THIS IS REQUIRED BEFORE FINAL PERMITSIGN-OFF AND CERTIFICATE OF OCCUPANCY.

MINIMUM 10% ORGANIC -  
 COMPOST & MULCH  
 REQUIRED

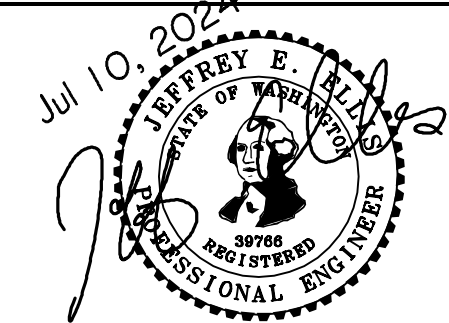


PERMIT 2403-078

NO.	DATE	BY	REVISIONS

APPLICANT  
 LEI WU AND INGRID CHANG  
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 MERCER ISLAND, WA 98040

DATE: Jul 10, 2024  
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 701 N 36th STREET, SUITE 450 SEATTLE, WA 98103  
 206.930.0342 [DUFFY@CESOLUTIONS.US](mailto:DUFFY@CESOLUTIONS.US)

**DRAINAGE / CIVIL PLAN**  
 WU/CHANG RESIDENCE  
 2956 72nd AVENUE SE, MERCER ISLAND, WA 98040

DRAWING NO:  
**C2.0**  
 APN 531510-0744

**MINIMUM 10% ORGANIC - COMPOST SOIL REQUIRED**

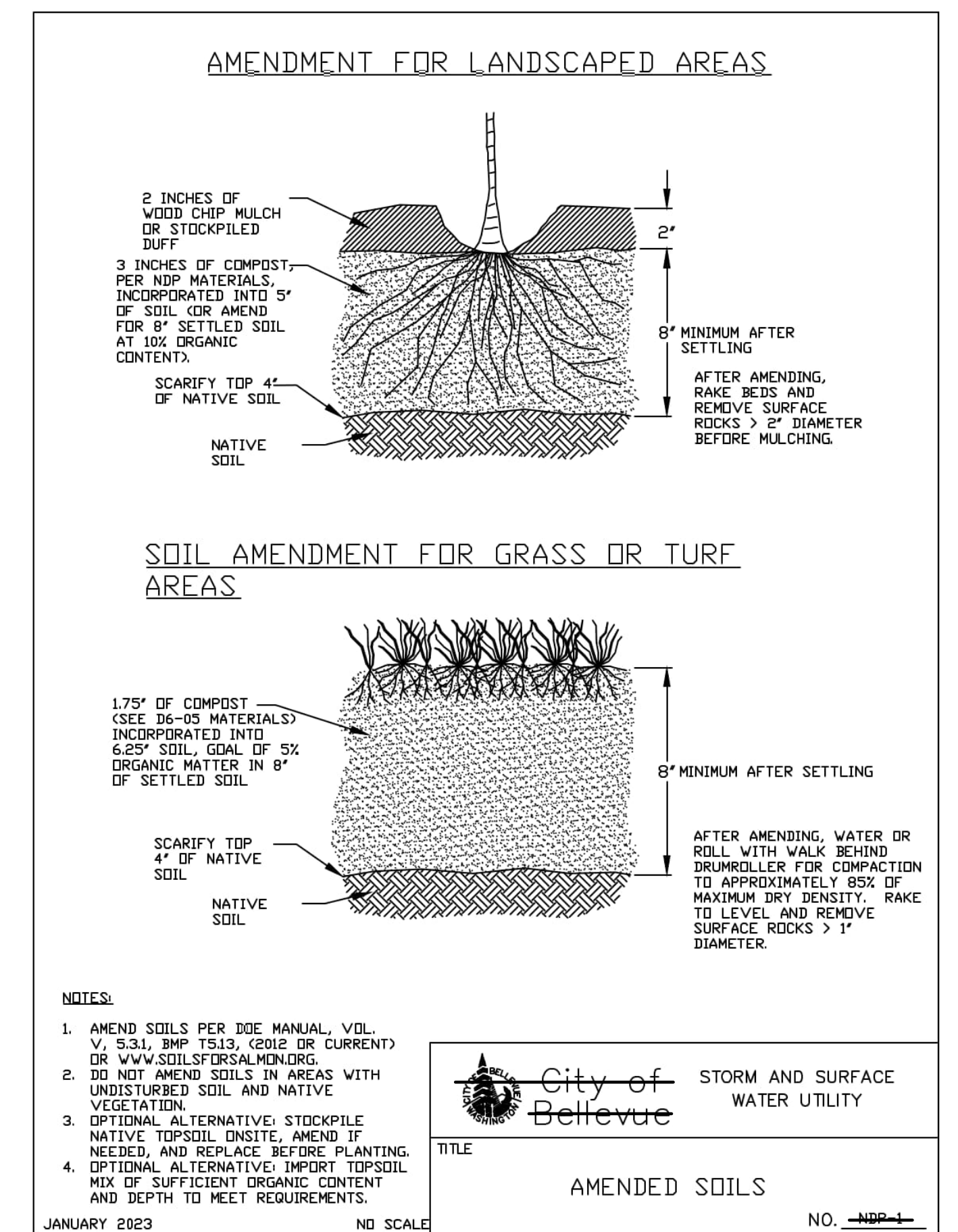
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**SOIL INSPECTION REQUIRED BY ENGINEER**

A POST CONSTRUCTION INSPECTION & CERTIFICATION OF AMENDED SOILS IS REQUIRED BY A LICENSED CIVIL ENGINEER. THIS IS REQUIRED BEFORE FINAL SIGN-OFF BY CITY.

**COMPOST AMENDED SOIL SPEC**

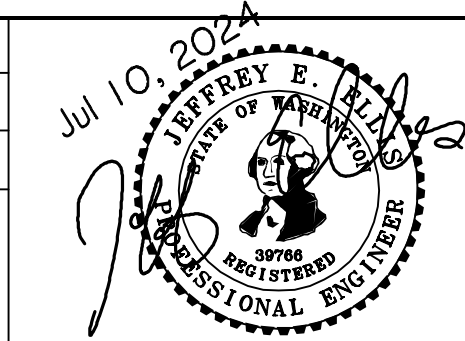


PERMIT 2403-078

NO.	DATE	BY	REVISIONS

APPLICANT  
LEI WU AND INGRID CHANG  
2956 72nd AVENUE SE  
MERCER ISLAND, WA 98040

DATE: Jul 10, 2024  
JOB# 2094  
DRAFTED: SS DESIGN: SS  
DIGITAL SIGNATURE



**CIVIL ENGINEERING SOLUTIONS**  
701 N 36th STREET, SUITE 450 SEATTLE, WA 98103  
206.930.0342 [DUFFY@CESOLUTIONS.US](mailto:DUFFY@CESOLUTIONS.US)

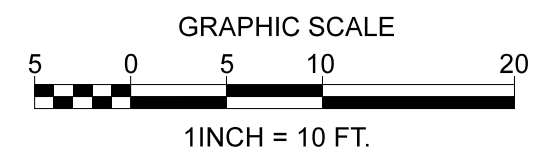
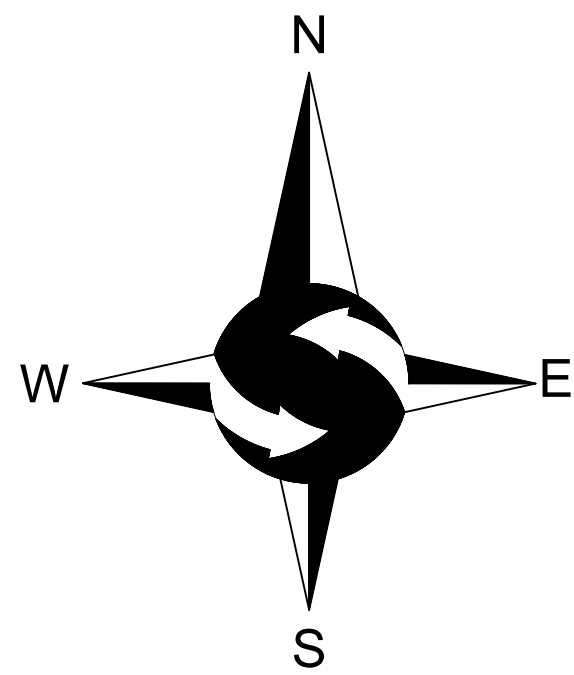
**STORM, BMP DETAILS**

WU/CHANG RESIDENCE  
2956 72nd AVENUE SE, MERCER ISLAND, WA 98040

DRAWING NO:

**C3.5**

APN 531510-0744



**LEGEND**

- FOUND MONUMENT AS DESCRIBED
- FOUND REBAR AS DESCRIBED
- SET MAG NAILS AS DESCRIBED
- SET 5/8" X 24" IRON ROD W/1" YELLOW PLASTIC CAP
- ⊗ POWER METER
- ⊗ GAS METER
- ⊗ CATCH BASIN
- ⊗ SANITARY SEWER MANHOLE
- ⊗ WATER VALVE
- ⊗ FIRE HYDRANT
- ⊗ WATER METER
- ⊗ MAILBOX
- SS — APPROXIMATE LOCATION SANITARY SEWER LINE
- SD — APPROXIMATE LOCATION STORM DRAIN LINE
- G — APPROXIMATE LOCATION UNDERGROUND GAS LINE
- W — APPROXIMATE LOCATION UNDERGROUND WATER LINE
- WOOD FENCE
- ▭ CONCRETE WALL
- ▭ ROCKERY
- ▭ ASPHALT SURFACE
- ▭ CONCRETE SURFACE
- ▭ GRAVEL SURFACE
- ▭ BRICK SURFACE
- ▭ FLAGSTONE SURFACE
- CE CEDAR
- DF DOUGLAS FIR
- DS DECIDUOUS
- \* INDICATES MULTI-TRUNK

**LEGAL DESCRIPTION**

LOT B, CITY OF MERCER ISLAND SHORT PLAT NO. ML 76-6-021, AS RECORDED UNDER RECORDING NO. 7607020565, RECORDS OF KING COUNTY, WASHINGTON.  
SITUATE IN THE CITY OF MERCER ISLAND, COUNTY OF KING, STATE OF WASHINGTON.

**BASIS OF BEARINGS**

THE MCGILVRA'S ISLAND ADDITION, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 16 OF PLATS, PAGE 358, RECORDS OF KING COUNTY, WASHINGTON

**PROJECT INFORMATION**

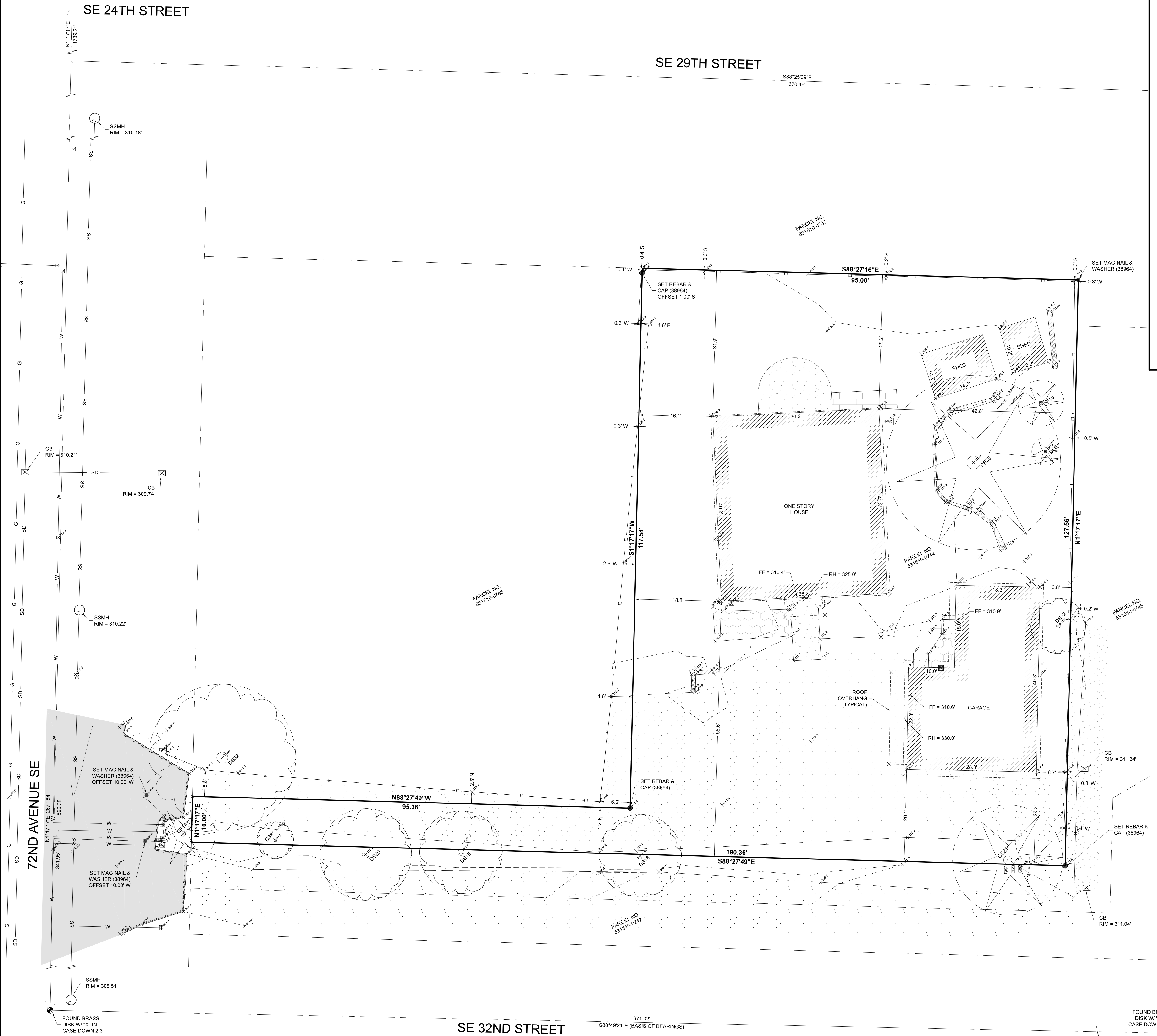
PROPERTY OWNER: LEI WU & INGRID CHANG  
2956 72ND AVENUE SE  
MERCER ISLAND, WA 98040  
TAX PARCEL NUMBER: 531510-0744  
PROJECT ADDRESS: 2956 72ND AVENUE SE  
MERCER ISLAND, WA 98040  
ZONING: R-9.6  
JURISDICTION: CITY OF MERCER ISLAND  
PARCEL ACREAGE: 13,072 SF (± 0.300 ACRES)  
AS SURVEYED

**GENERAL NOTES**

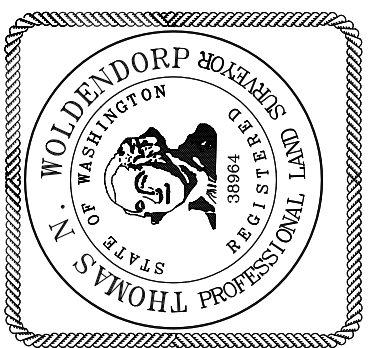
1. THIS SURVEY WAS COMPLETED WITHOUT BENEFIT OF A CURRENT TITLE REPORT. EASEMENTS AND OTHER ENCUMBRANCES MAY EXIST ON THIS PROPERTY THAT ARE NOT SHOWN HEREON.
2. INSTRUMENTATION FOR THIS SURVEY WAS A 3-SECOND SPECTRAPRECISION FOCUS 35 TOTAL STATION. PROCEDURES USED IN THIS SURVEY MEET OR EXCEED STANDARDS SET BY WAC 332-130-090.
3. THE INFORMATION ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE IN NOVEMBER 2023 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
4. UTILITIES SHOWN ON THIS SURVEY ARE BASED UPON ABOVE GROUND OBSERVATIONS 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.
5. ALL MONUMENTS WERE LOCATED DURING THIS SURVEY UNLESS OTHERWISE NOTED.

**VERTICAL DATUM & CONTOUR INTERVAL**

ELEVATIONS SHOWN ON THIS DRAWING WERE DERIVED FROM INFORMATION PROVIDED BY WCCS SURVEY CONTROL DATABASE.  
THE MARK IS A BRASS CAP IN CONCRETE MONUMENT CASE AT THE INTERSECTION OF SE 32ND AVENUE AND 72ND AVENUE SE.  
POINT ID NO. CASC13  
ELEVATION: 310.1 FEET (94.531 METERS) NAVD 88  
2.0' CONTOUR INTERVAL - THE EXPECTED VERTICAL ACCURACY IS EQUAL TO 1/2 THE CONTOUR INTERVAL OR PLUS / MINUS 1.0' FOR THIS PROJECT.



SE 1/4, NW 1/4, SEC 12, TWP 24N, RNG 4E, W.M.



DATE	REVISION	DRN

**TOPOGRAPHIC SURVEY**

LEI WU & INGRID CHANG  
2956 72ND AVENUE SE  
MERCER ISLAND, WA 98040

PROJECT NO. 23-608

DRAWN BY: MTS  
CHECKED BY: TNW  
DATE: 11/22/23  
SHEET 1 OF 1