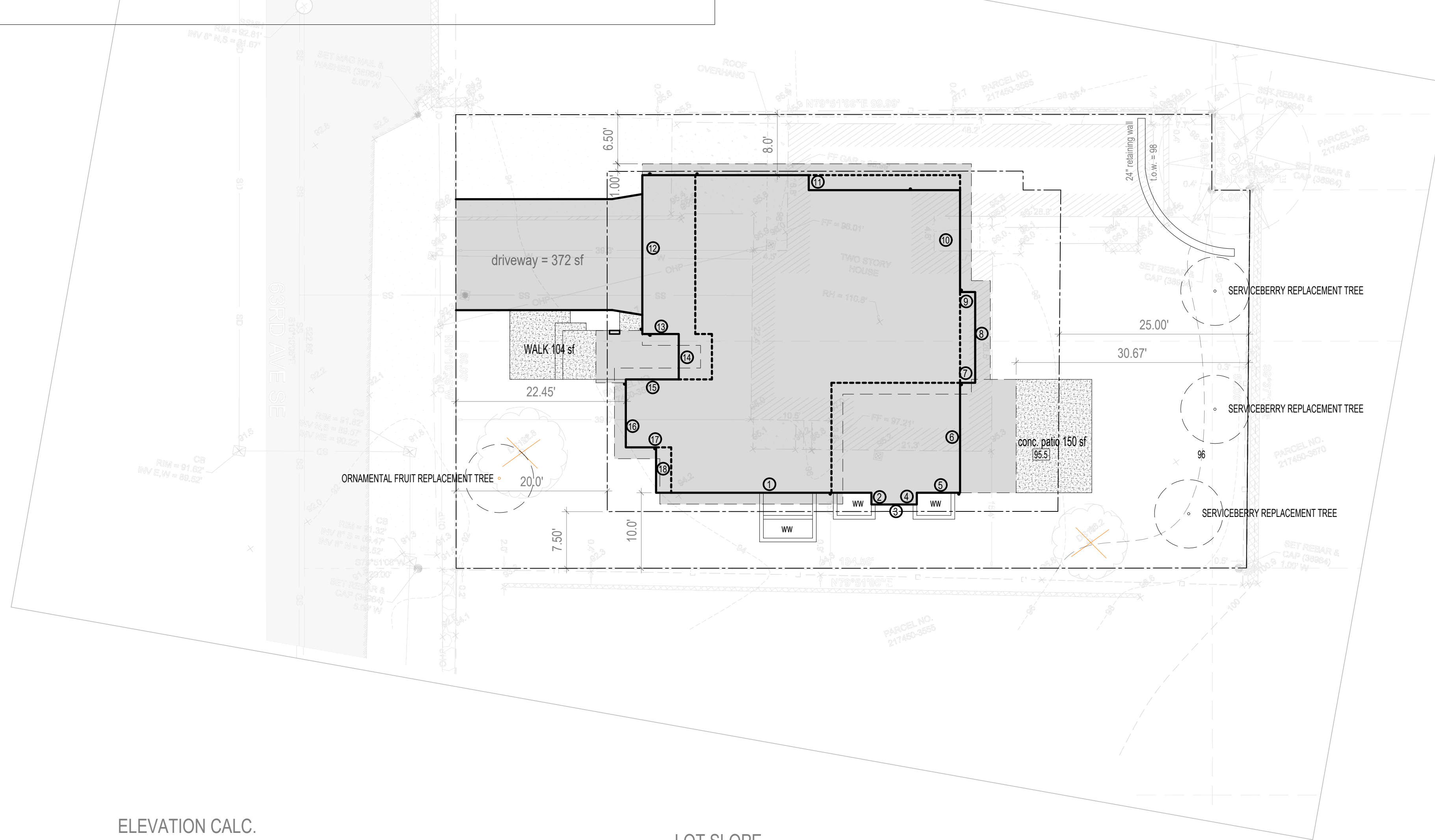


TREE PLANTING PLAN

1. NEW TREES WILL BE AT LEAST 6 FEET TALL FOR CONIFERS AND 1.5 INCHES IN CALIPER FOR DECIDUOUS SPECIES
2. NEW TREES WILL BE PLANTED BETWEEN OCTOBER AND MARCH
3. MINIMUM SPACING BETWEEN TREES AND DISTANCES FROM BUILDINGS OR INFRASTRUCTURE WILL BE 10 FEET
4. EACH NEW TREE WILL BE WATERED FOR THE FIRST 2 YEARS ON THE FOLLOWING SCHEDULE:
  - MINIMUM OF 5 GALLONS OF WATER PER WEEK FOR THE FIRST 4 WEEKS AFTER PLANTING
  - EVERY 2 WEEKS WHEN WEEKLY DAYTIME MAXIMUM TEMPERATURES ARE BELOW 70°
  - ONCE A WEEK WHEN WEEKLY DAYTIME MAXIMUM TEMPERATURES ARE OVER 70° (E.G. MAY THROUGH SEPTEMBER)



Code Data

- 2021 International Building Code (IBC) - struct.
- 2021 International Residential Code (IRC)
- 2021 International Mechanical Code (IMC)
- 2021 International Fuel Gas Code (IFGC)
- 2021 Uniform Plumbing Code (UPC)
- 2021 International Fire Code (IFC)
- 2021 International Existing Building Code
- 2021 International Swimming Pool and Spa Code
- 2021 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.

ELEVATION CALC.

EL @ MIDPOINT	segment	wtd sgmnt	(ft)
95.00	28.46	2703.70	1
95.00	1.54	146.30	2
95.00	6	570.00	3
95.00	1.54	146.30	4
95.00	5.73	544.35	5
95.50	14.54	1388.57	6
95.00	2	190.00	7
95.00	12	1140.00	8
95.00	2	190.00	9
95.00	15.46	1468.70	10
95.00	42	3990.00	11
95.00	21	1995.00	12
95.00	4.81	456.95	13
95.00	6	570.00	14
95.00	7	665.00	15
95.00	9	855.00	16
95.00	4	380.00	17
95.00	6	570.00	18
189.08			17969.87

AVG. EL = **95.03845**  
 BOLD = NEW EL LOWER THAN EXIST  
 all others exist = final

LOT SLOPE

HIGH POINT = 98.1'  
 LOW POINT = 92'  
 LOT SLOPE = 6.1'/104.5' = 5.84%  
 LOT COVERAGE = 40%  
 6237sf x .4 = 2494.8 sf total lot coverage allowed

F.A.R. CALCULATION

Main Floor FA= 1695 sf (inc. gar)  
 Basement FA = 1010 sf (95.3% below grade)  
 Upper Floor FA = 1311.5 sf  
 4016.5 sf

excepted FA = (962.2 sf)  
 stairs = (124.3 sf x 2 = 248.6 sf)  
 TOTAL chargeable FA = 2805.7 sf  
 Lot is < 7500 sf therefore FAR = lesser of 3000 sf or, 45% of lot area  
 .45 x 6237 sf = 2806.7 sf, FAR limit = 2806.7 sf

LOT COVERAGE (SHADED AREA)

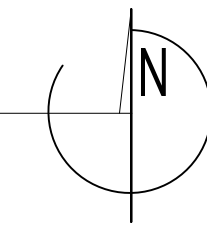
House Roof to eaves (shaded ) = 2113 sf  
 driveway (shaded) = 372 sf  
 TOTAL = 2485 sf  
 6237sf x .4 = 2494.8 sf total allowed

HARDSCAPE

patio = 150 sf  
 walks = 104 sf  
 window wells = 73.5 sf  
 retaining wall = 25 sf  
 TOTAL = 352.5 sf  
 allowable = 6237 sf x .09 = 561.33 sf

A. SITE PLAN

- 1/10" = 1'-0"
- xxx = SPOT ELEVATION, FINAL
  - = EAVE/ROOF LINE
  - = EXTENT OF LIVING AREA @ upper floor
  - = BUILDING FOOTPRINT (FOUNDATION EXTENTS)
  - SHADED AREA = BLDG EXTENTS TO EAVE
  - EXISTING HOUSE, DRIVEWAY AND ALL HARDSCAPE ON PROPERTY TO BE REMOVED
  - = EXISTING TOPOGRAPHY
  - = WALL SEGMENT TAG FOR HEIGHT CALCULATION
  - SEE SHEET 03 FOR BASEMENT EXCEPTION CALC.
  - ww = WINDOW WELL



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

Artoush Construction and Remodeling  
 13101 NE 50th ST Bellevue WA  
 (425) - 890 - 9995

Project Description

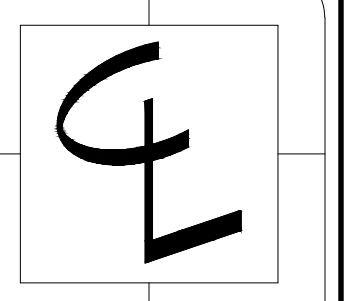
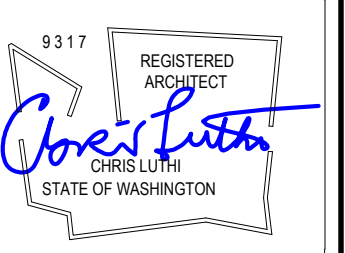
Demolish existing and build new single family residence.

Parcel Number/Legal

Parcel # = 2174503575  
 Legal Description:  
 EAST SEATTLE ADD LOTS 5 & 6 TGW POR  
 LOTS 24 & 25 BLOCK 21 SD ADD AS DEC IN  
 KC COURT CASE #23-2-02297-1 SEA REC  
 #20240509000143  
 ZONING = R-9.6  
 lot size = 6237 sf

Owner

Farhad Imani  
 8215 Juanita Dr. Kirkland WA  
 206-910-7959



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 SEATTLE  
 206.935.4654  
 www.Centerline-Design.com

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CONTENTS

Site Plan

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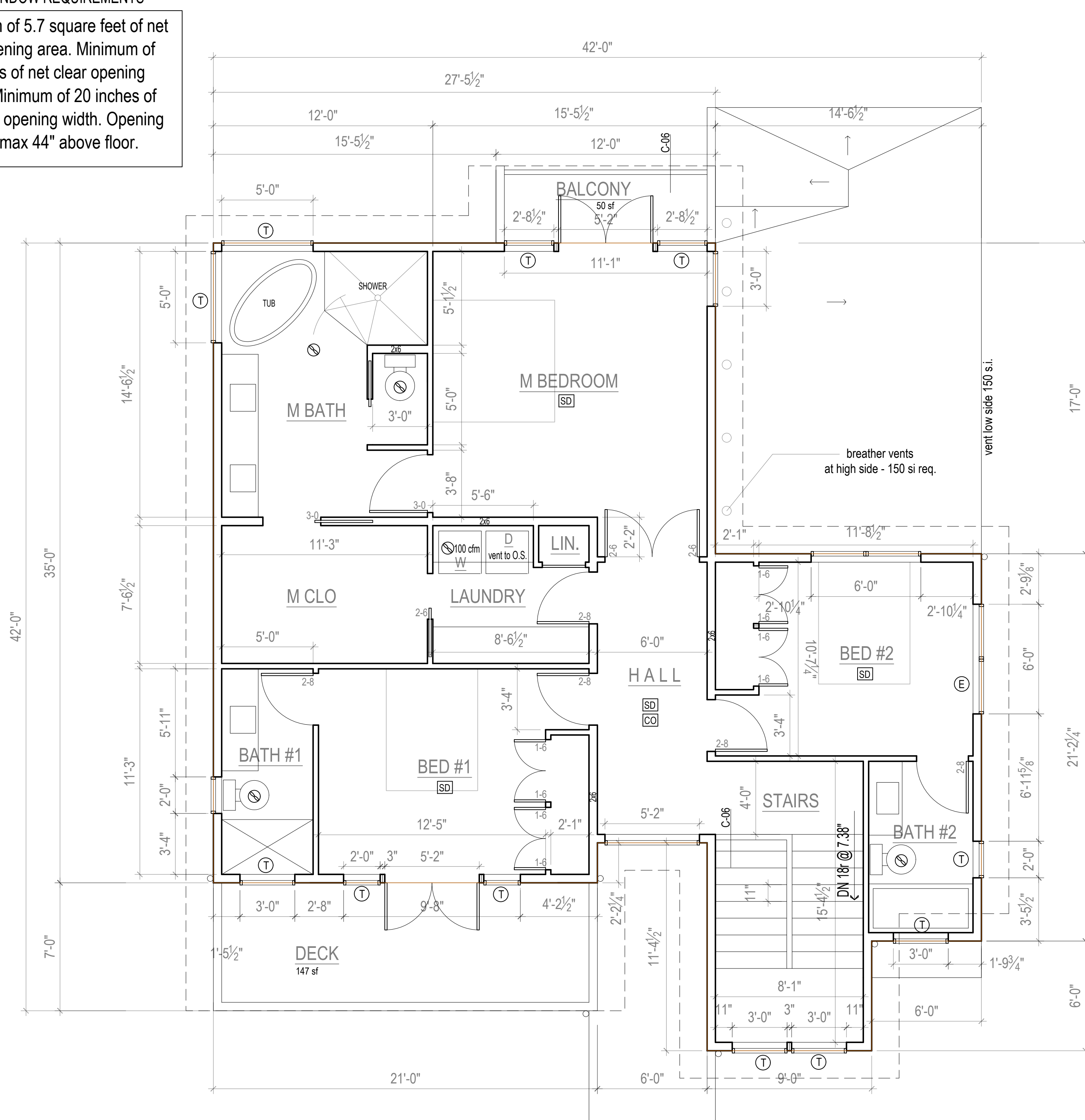
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NOTES

- 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 7-10 (r.o. = 3'-2" x 8'-0") unless otherwise indicated
- F = 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

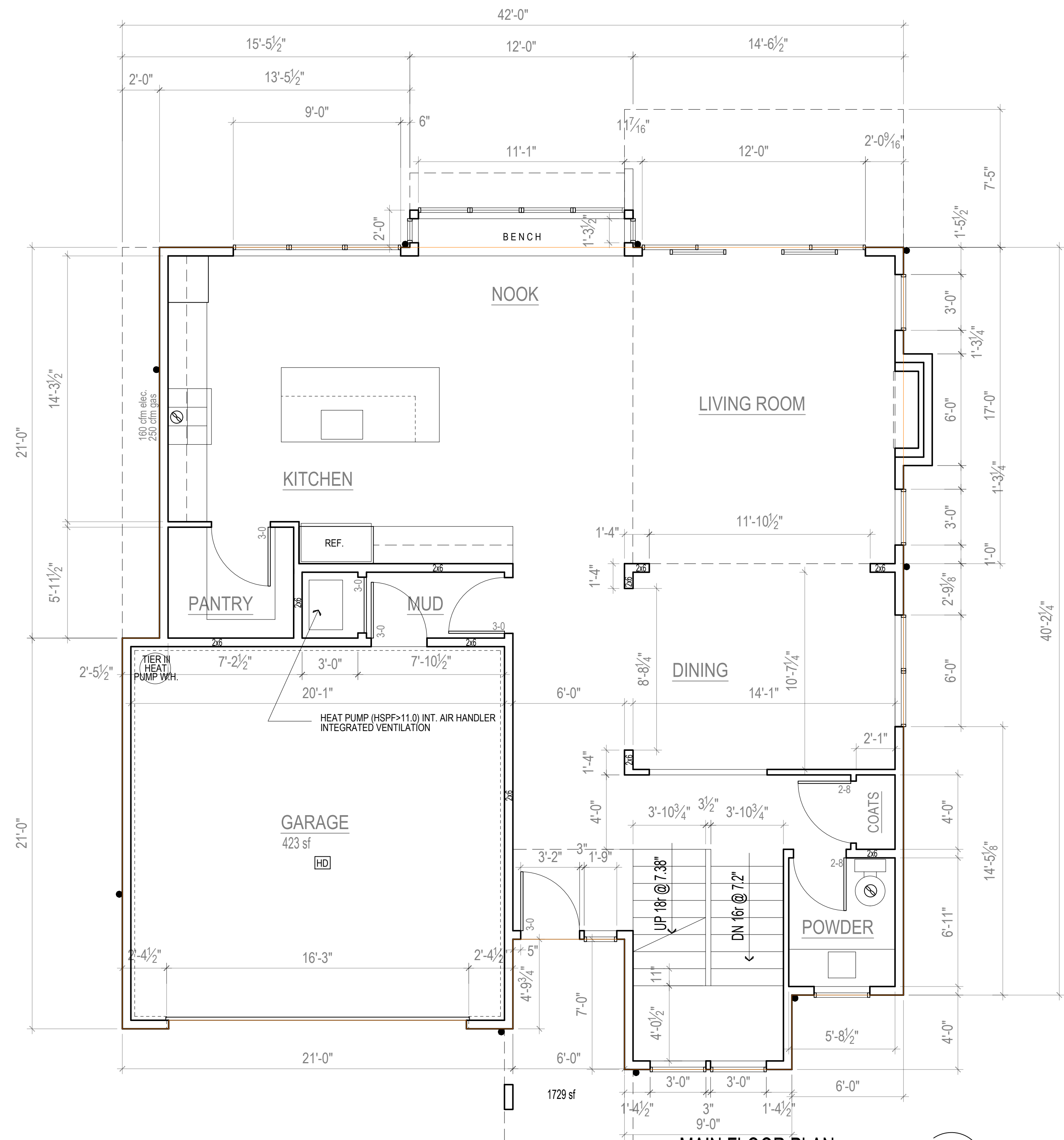
EGRESS WINDOW REQUIREMENTS

Minimum of 5.7 square feet of net clear opening area. Minimum of 24 inches of net clear opening height. Minimum of 20 inches of net clear opening width. Opening must be max 44" above floor.



**B. UPPER FLOOR PLAN**  
 1/4" = 1'-0"  
 Floor Area = 1311.5 sf (red line)

Membrane used as a walking surface must be IBC ES approved or be tested to the AC39 standard



**A. MAIN FLOOR PLAN**  
 1/4" = 1'-0"  
 FLOOR AREA (INC. GARAGE) = 1695 SF (red line)

9317 REGISTERED ARCHITECT  
 Centerline Design  
 4737 37th Ave SW  
 SEATTLE  
 206.935.4684  
 www.Centerline-Design.com

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CONTENTS

Floor Plans
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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
- F = 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

EGRESS WINDOW REQUIREMENTS

Minimum of 5.7 square feet of net clear opening area. Minimum of 24 inches of net clear opening height. Minimum of 20 inches of net clear opening width. Opening must be max 44" above floor.

BASEMENT EXCEPTION CALC.

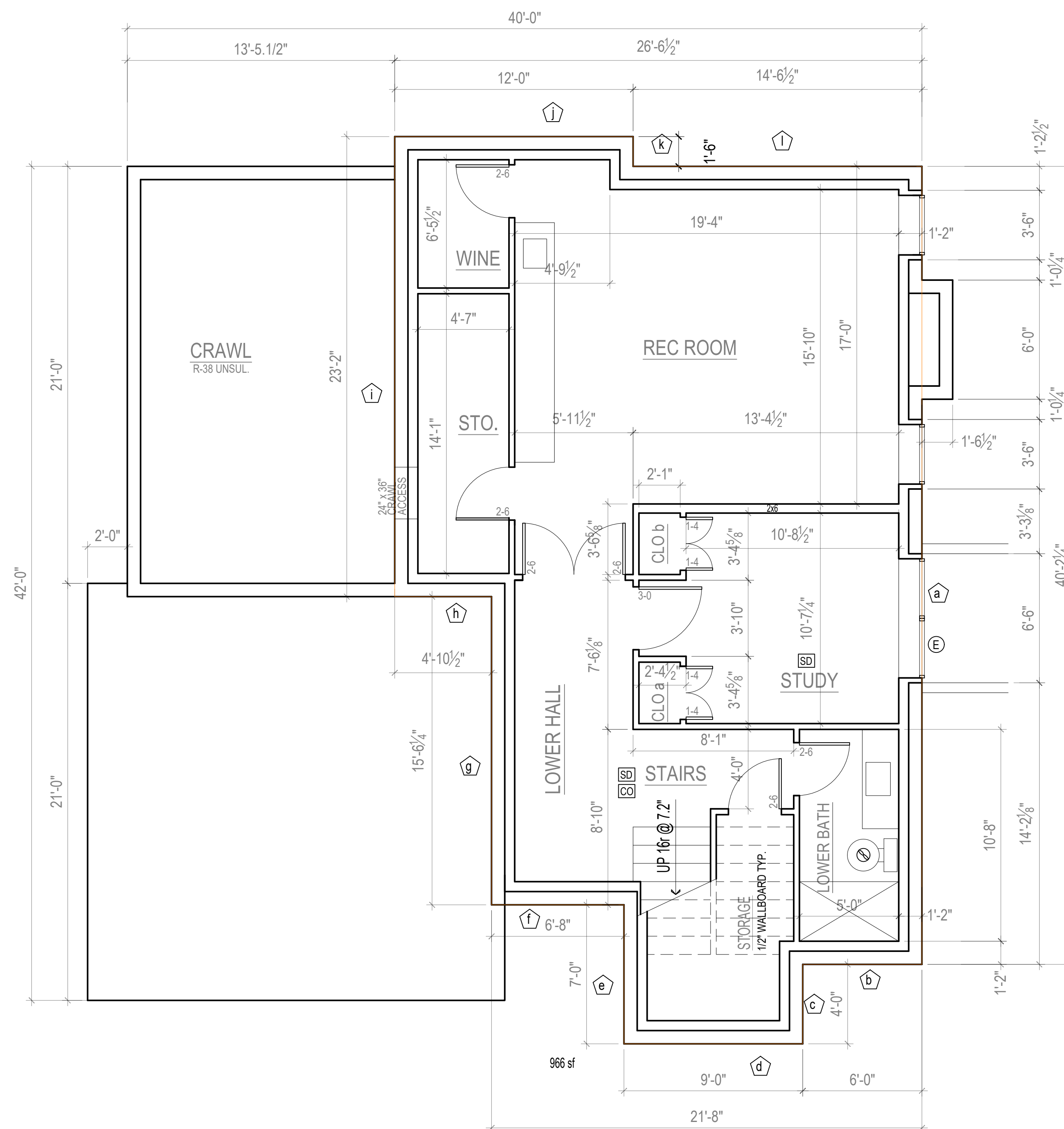
segment	length	beginning elev.	end elev.	begin cov	end cover	avg cover	%cover	lwd
a	40.19					341.615	83.0%	283.54
b	6					51	100.0%	51.00
c	4					34	100.0%	34.00
d	9					76.5	100.0%	76.50
e	7					59.5	100.0%	59.50
f	6.67					56.695	100.0%	56.70
g	15.52					131.92	100.0%	131.92
h	4.88					41.48	100.0%	41.48
i	23.17					196.945	100.0%	196.95
j	12					102	100.0%	102.00
k	1.5					12.75	100.0%	12.75
l	14.54					123.59	100.0%	123.59

perim= 144.47      avg. 95.3%      1169.92

raw FAR 1010

full cover = 8.5 ft (fin. clg.)

excepted area = 962.2349

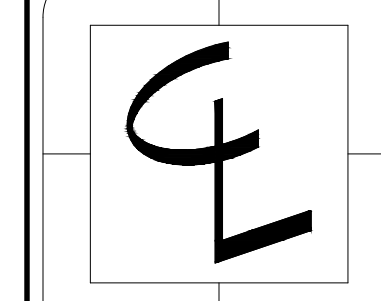


**B. BASEMENT FLOOR PLAN**

1/4" = 1'-0"

FLOOR AREA = 1010 SF (red line)

X = BASEMENT WALL SEGMENTS FOR BASEMENT EXCEPTION CALC.



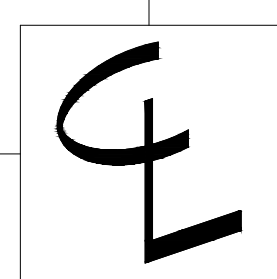
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CONTENTS  
Basement Plan

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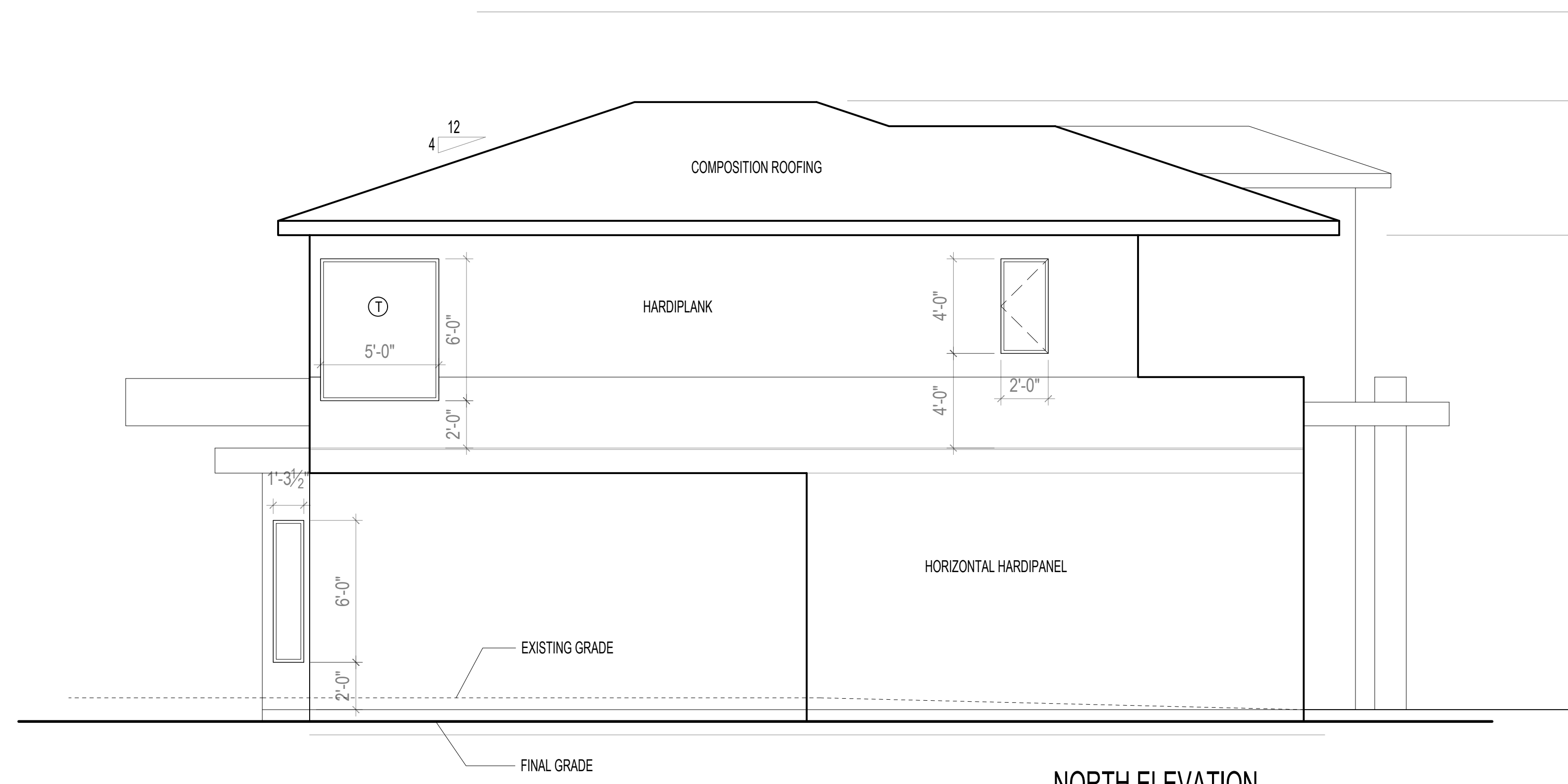
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CONTENTS  
 Elevations

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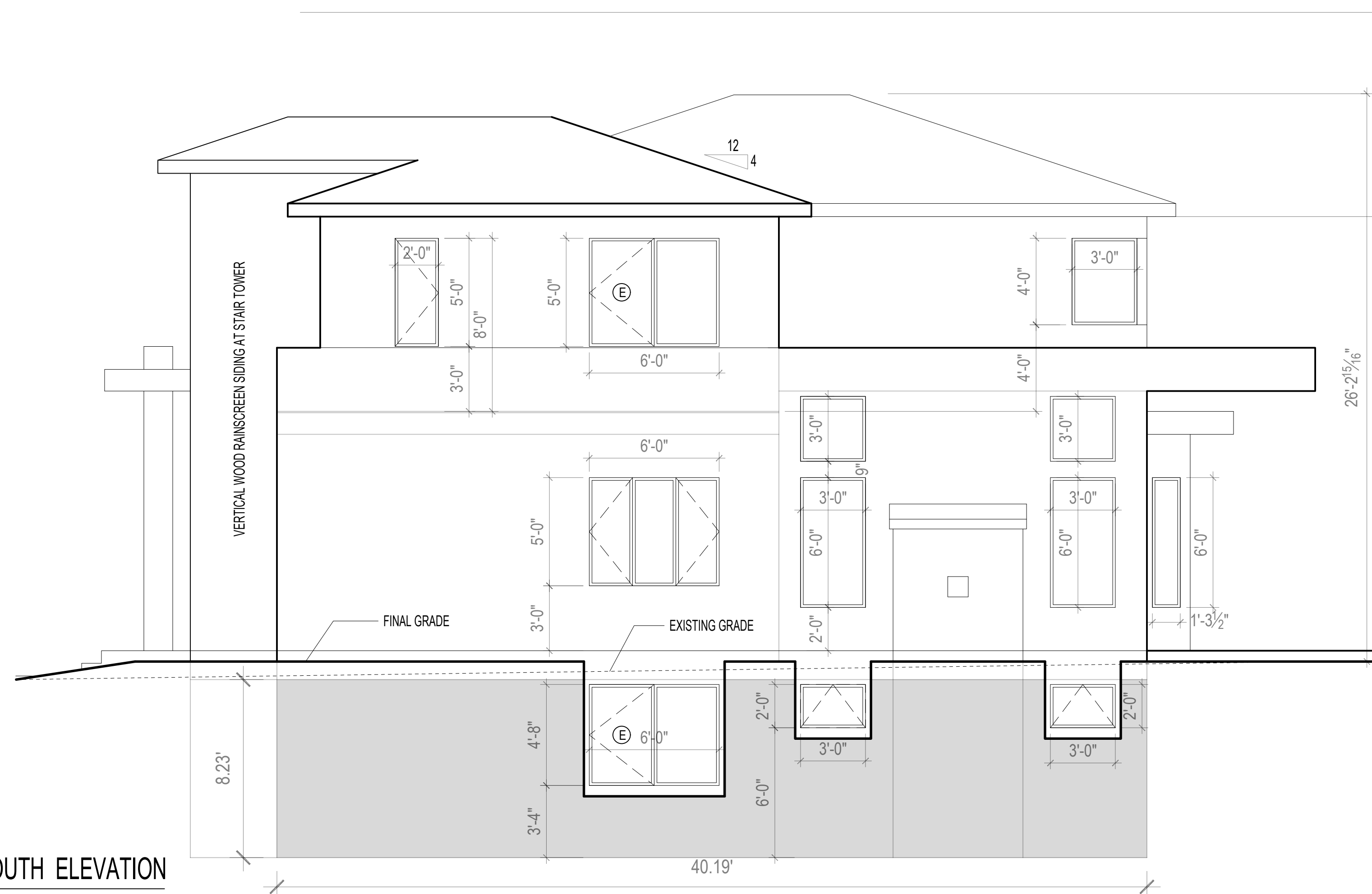


**C. NORTH ELEVATION**  
 1/4" = 1'-0"

ALL WINDOW DIMENSIONS ARE ROUGH OPENING

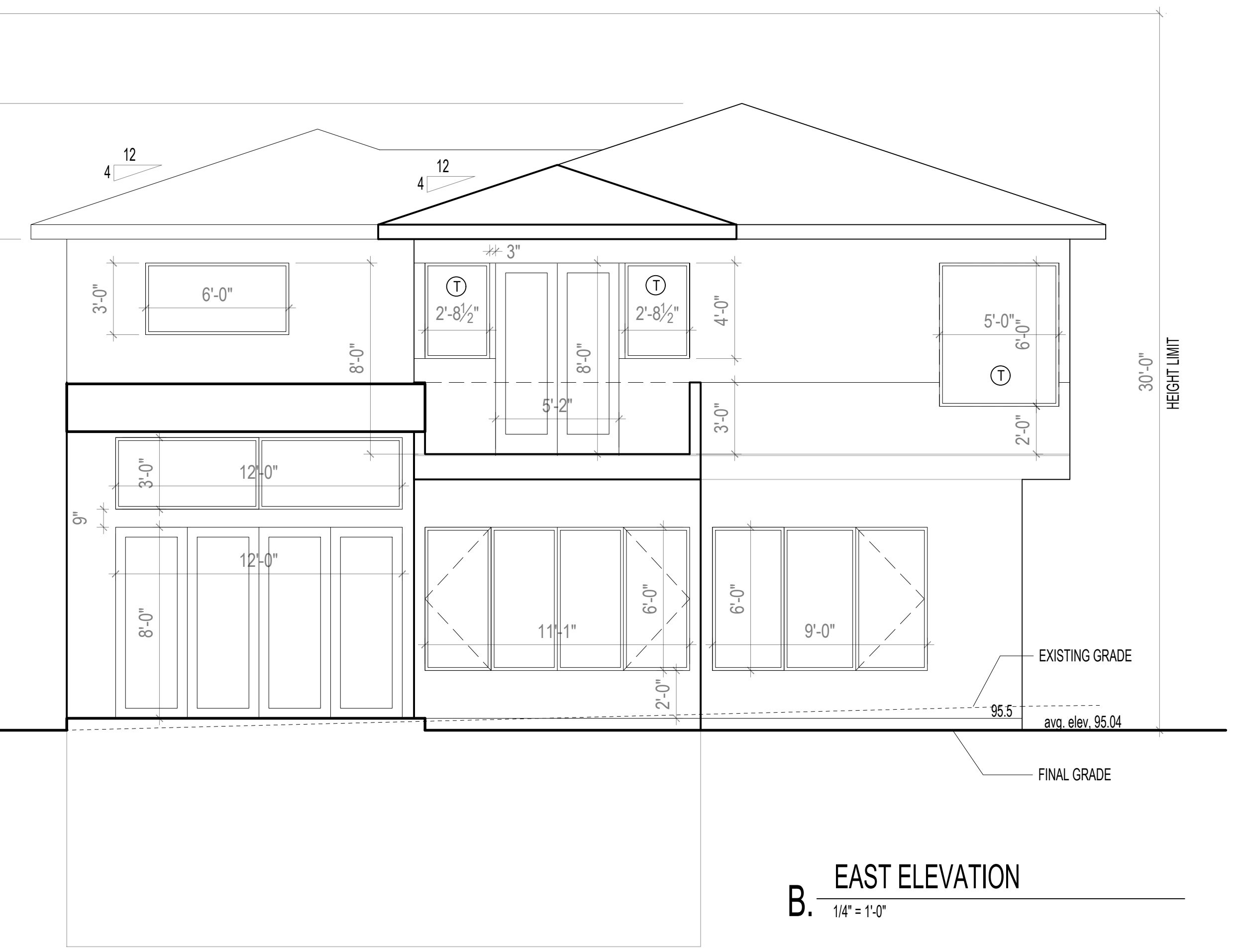


**A. WEST ELEVATION**  
 1/4" = 1'-0"

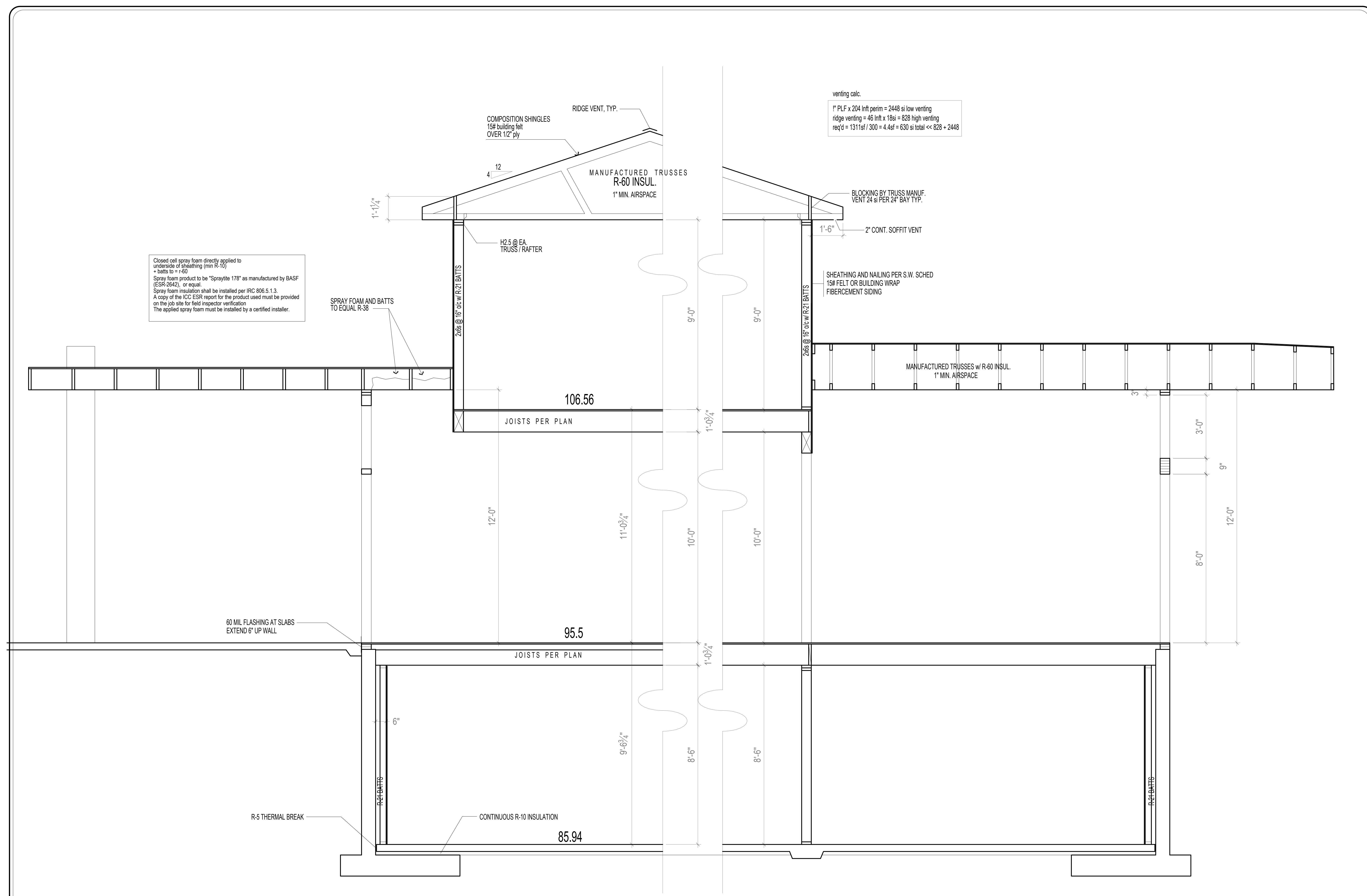


**D. SOUTH ELEVATION**  
 1/4" = 1'-0"

276.5  
 330.8 = 83.6% BASEMENT COVERAGE THIS WALL SEGMENT (a)

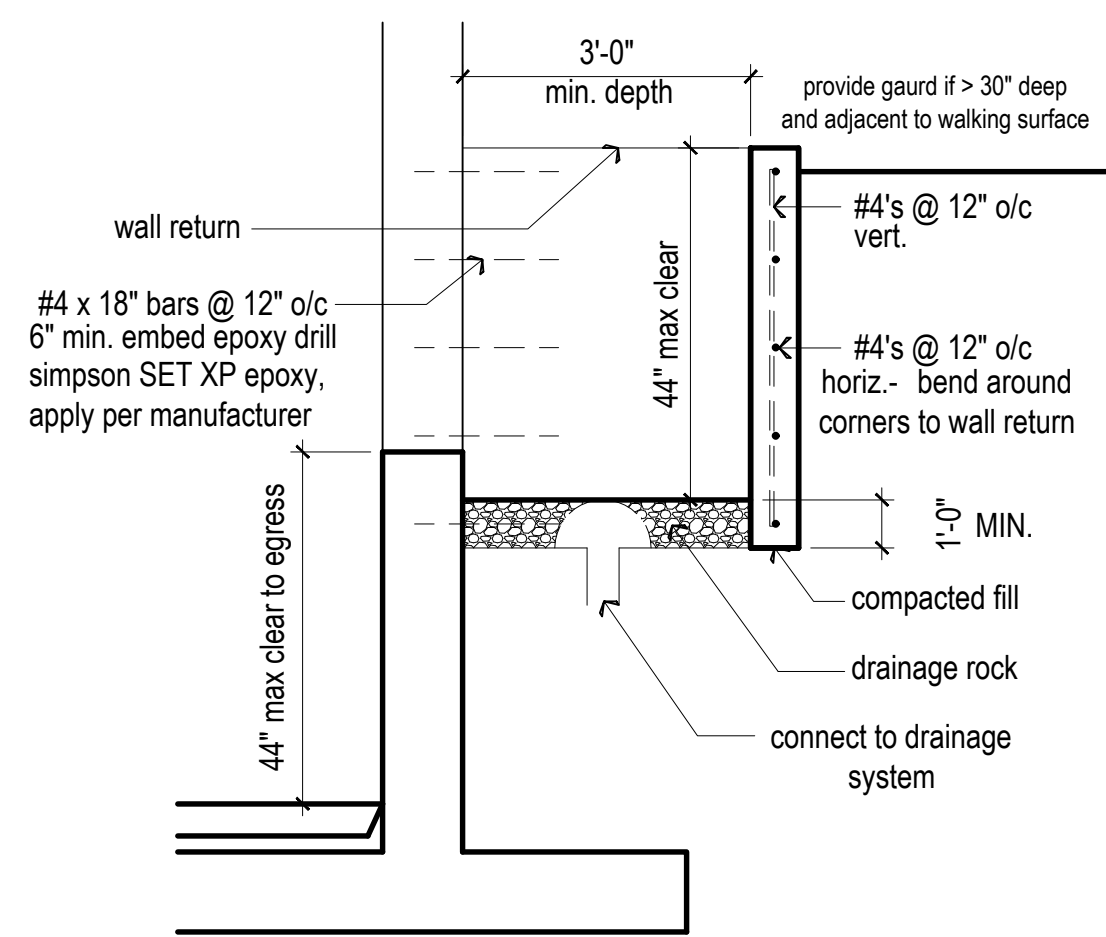


**B. EAST ELEVATION**  
 1/4" = 1'-0"

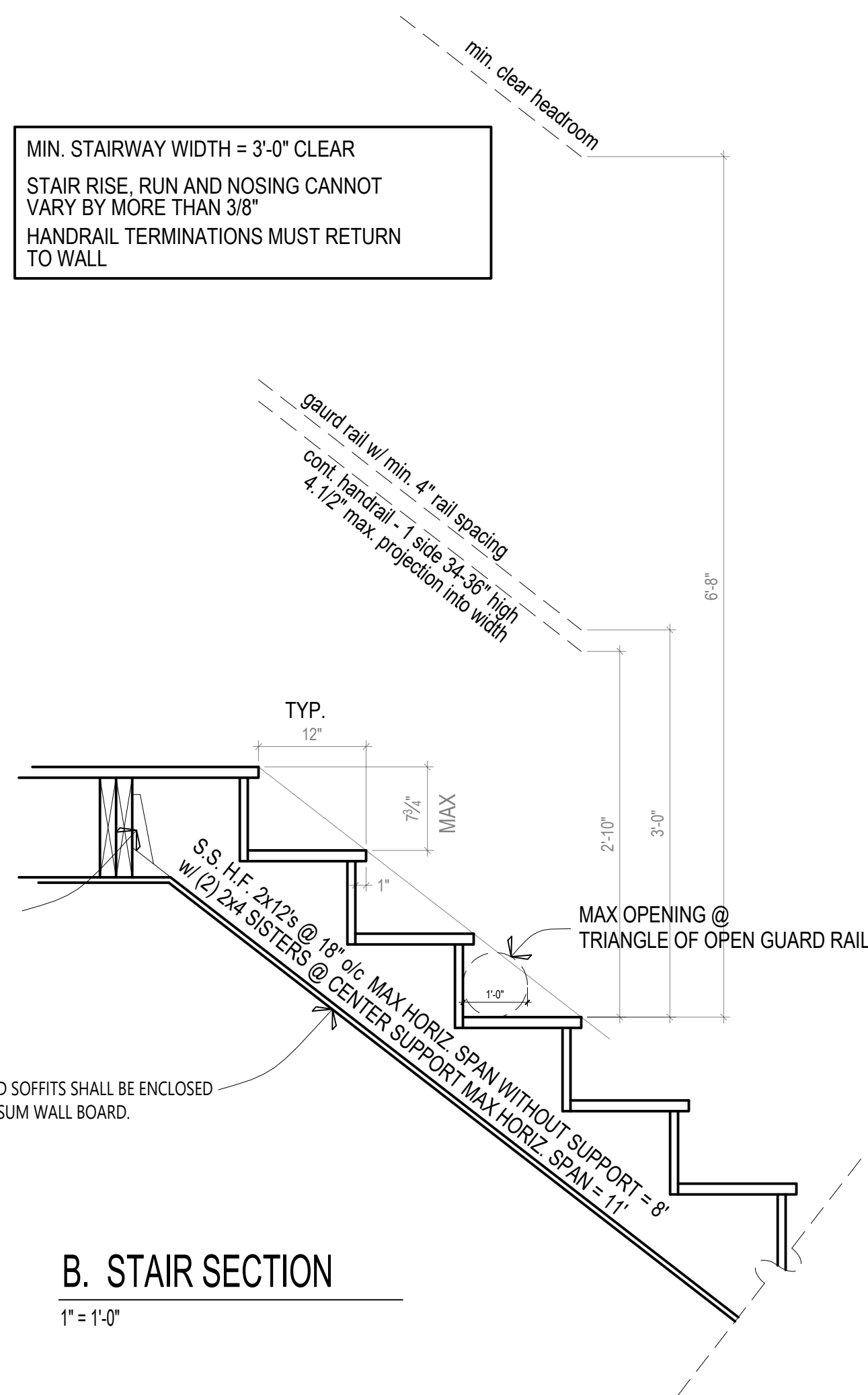


**B.** SECTION THROUGH FRONT ENTRY  
 1/2" = 1'-0"

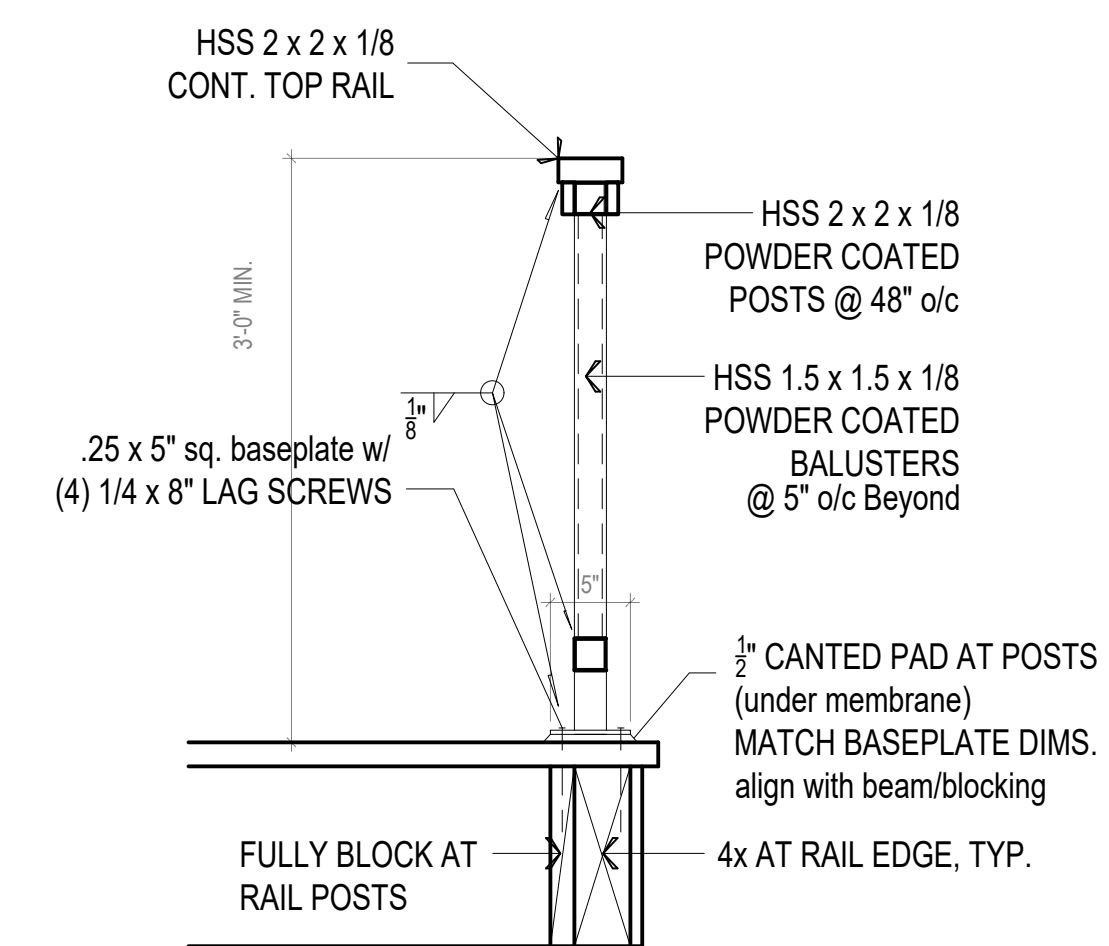
**A.** SECTION THROUGH LIVING ROOM  
 1/2" = 1'-0"



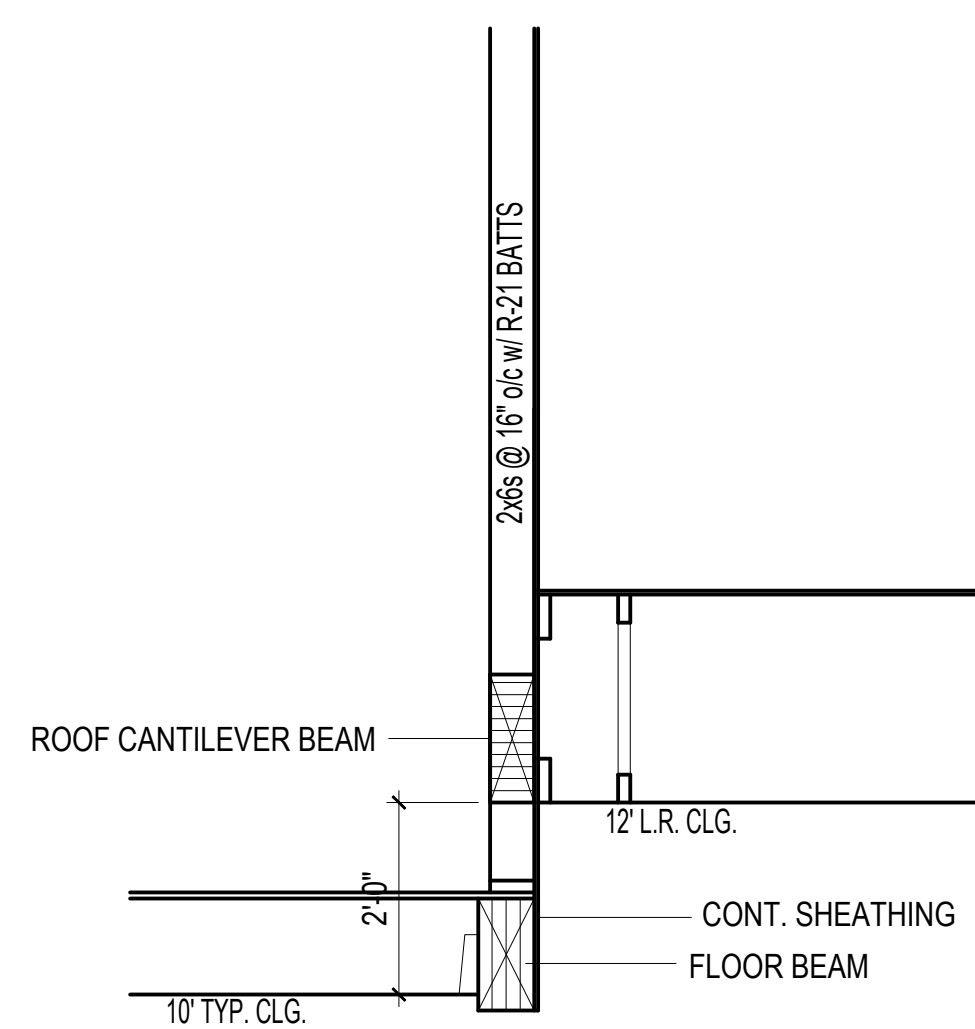
**A. WINDOW WELL DETAIL**  
1/2" = 1'-0"



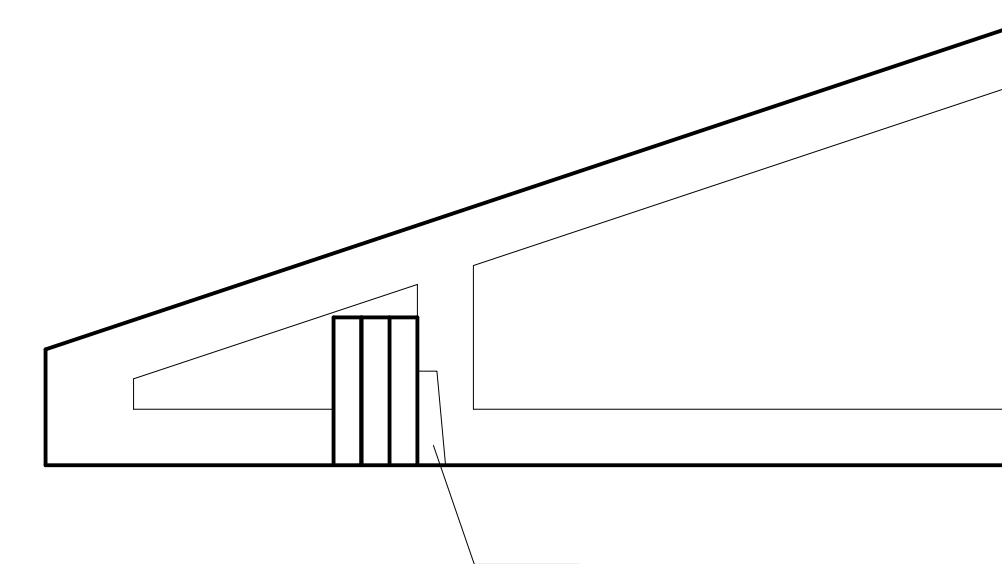
**B. STAIR SECTION**  
1" = 1'-0"



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



**D. L.R. TO BEDROOM SECTION**  
1/2" = 1'-0"



**E. FLUSH BEAM AT EAVE**  
1" = 1'-0"



## General Structural Notes (GSN's)

### CRITERIA:

- ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE SEATTLE BUILDING CODE (SBC) WITH WASHINGTON STATE ADMINISTRATIVE CODE AMENDMENTS, 2018 EDITION.
- DESIGN LOADING CRITERIA  
RISK CATEGORY SBC TABLE 1604.5 ..... II  
ROOF SNOW LOAD ..... 25 PSF ( $s_g = 1.0$ )  
ROOF DEAD LOAD ..... 15 PSF  
RESIDENTIAL LIVE LOAD ..... 40 PSF  
DECK LIVE LOAD ..... 60 PSF  
FLOOR DEAD LOAD ..... 20 PSF
- EARTHQUAKE ..... SEISMIC DESIGN CATEGORY D  
 $S_s = 1.55$ ,  $S_1 = 0.64$ ,  $S_{D1} = 1.13$ ,  $S_D = 0.89$   
EQUIVALENT LATERAL FORCE PROCEDURE  
LIGHT FRAME (WOOD) WALLS AND ROOFS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR  
 $R = 6.5$ ,  $C_d = 2.5$ ,  $I_e = 1.0$ ,  $C_e = 4$ ,  $C_s = 0.178$   
BASE SHEAR,  $V = 16.5$  K (LRFD)
- WIND ..... 110 MPH, EXPOSURE "B",  $K_{zt} = 1.0$   
COMPONENTS & CLADDING ..... -35.3/-21.2 PSF MAX. AT WALLS (LRFD/ASD)  
..... -35.3/-21.2 GROSS UPLIFT AT ROOF (LRFD/ASD)  
WIND PRESSURES BASED ON LESS THAN 10 SQUARE FOOT TRIANGULAR AREAS NEAR WALL CORNERS OR ROOF EDGES (EXCLUDING CORNER ZONES AT ROOF). REDUCED DESIGN PRESSURES MAY BE CALCULATED IN ACCORDANCE WITH ASCE 7-16 CHAPTER 30.

- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS FOR BIDDING AND CONSTRUCTION. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY AND SHALL NOTIFY ENGINEER OF ALL DISCREPANCIES PRIOR TO CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE BUILDING LAYOUT DIMENSIONS (GRID LAYOUTS, SITE COORDINATES, ETC.) AMONGST ALL TRADES, INCLUDING SHOP FABRICATED ITEMS.
- 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.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE WORK.
- DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER.
- ALL STRUCTURAL SYSTEMS COMPOSED OF COMPONENTS TO BE FIELD ERRECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLIER.
- 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. THE MECHANICAL/ELECTRICAL CONTRACTOR MUST HIRE THE ENGINEER AND IS RESPONSIBLE FOR ALL COSTS RELATED TO THE PURCHASE AND INSTALLATION OF NECESSARY SUPPORTS, BRACING AND ANCHORAGE. SEISMIC BRACING AND ANCHORAGE DESIGN AND CONSTRUCTION SHALL COMPLY WITH CHAPTER 13 OF ASCE 7-10.
- SHOP DRAWING REVIEW: SHOP DRAWINGS FOR BRACINGS 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. THE CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS PRIOR TO REVIEW BY ENGINEER OF RECORD. SUBMITTALS SHALL INCLUDE A REPRODUCIBLE AND ONE COPY. THE REPRODUCIBLE SHALL BE MARKED AND RETURNED. SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS. THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT BY INDICATING WHICH MATERIAL IS INTENDED TO BE FURNISHED AND INSTALLED AND BY DETAILING THE INTENDED FABRICATION AND INSTALLATION METHODS. IF DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND THE CONTRACT DOCUMENTS ARE DISCOVERED EITHER PRIOR TO OR AFTER SHOP DRAWING SUBMITTALS ARE PROCESSED BY THE ENGINEER, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED.
- 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. BUILDING COMPONENT SUBMITTALS SHALL INCLUDE THE DESIGNING PROFESSIONAL ENGINEER'S STAMP AND SHALL BE APPROVED BY THE COMPONENT DESIGNER PRIOR TO CURSORY REVIEW BY THE ENGINEER OF RECORD FOR LOADS IMPOSED ON THE BASIC STRUCTURE. THE COMPONENT DESIGNER IS RESPONSIBLE FOR CODE CONFORMANCE INCLUDING ACCOMMODATION FOR STRUCTURAL DISPLACEMENT PER ASCE 7-10 SECTION 13.3.2 AND ALL NECESSARY CONNECTIONS NOT SPECIFICALLY CALLED OUT ON ARCHITECTURAL OR STRUCTURAL DRAWINGS. DEFERRED SUBMITTALS SHALL INDICATE MAGNITUDE AND DIRECTION OF ALL LOADS IMPOSED ON BASIC STRUCTURE. DESIGN CALCULATIONS SHALL BE INCLUDED IN THE SUBMITTAL. THE CONTRACTOR SHALL FORWARD DEFERRED SUBMITTALS TO THE BUILDING OFFICIAL AND HAVE THE DEFERRED SUBMITTALS ON SITE FOR THE GOVERNING JURISDICTIONS INSPECTORS USE AND REFERENCE. THE FOLLOWING BUILDING COMPONENTS SHALL BE DEFERRED SUBMITTALS FOR THIS PROJECT:  
- PREFABRICATED CONNECTOR PLATE WOOD TRUSSES (SEE GENERAL NOTE #23)

### GEOTECHNICAL:

- 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. FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED EARTH OR CONTROLLED, COMPACTED STRUCTURAL FILL AT LEAST 12" BELOW LOWEST ADJACENT FINISHED GRADE. THE OWNER APPOINTED GEOTECHNICAL ENGINEER SHALL APPROVE FOOTING EXCAVATION/PREPARATION PRIOR TO PLACEMENT OF ALL FOOTINGS.  
ALLOWABLE SOIL PRESSURE ..... 1,500 PSF  
REFERENCE: ASSUMED PER IBC TABLE 1806.2  
ALL BOTTOM OF EXTERIOR FOOTINGS, AND INTERIOR FOOTINGS IN AN UNCONDITIONED SPACE, SHALL BE SET 12" BELOW GRADE AT A MINIMUM TO REACH FROST DEPTH.

### ANCHORAGE:

- 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 INCLUDING MINIMUM EMBED REQUIREMENTS: "E" SERIES (0.157" DIAMETER) AS MANUFACTURED BY ITW RAMSEY (ICC-ES NO. 1799); OR "X-U" (0.157" DIAMETER) AS MANUFACTURED BY H.L.T. INC. (ICC-ES NO. 2269); OR "STRONG-TIE POPA" (0.157" DIAMETER) AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC. (ICC-ES NO. 2138); OR "CSJ PIN" (0.157" DIAMETER) AS MANUFACTURED BY DEWALT/POWERS (ICC-ES NO. 2024); OR AN APPROVED EQUIVALENT IN STRENGTH AND EMBEDMENT. MINIMUM EMBEDMENT IN CONCRETE SHALL BE 1" UNLESS OTHERWISE NOTED. MAINTAIN AT LEAST 3-1/2" TO NEAREST CONCRETE EDGE.

### CONCRETE:

- CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH ACI 318-18 CHAPTER 4 AND 26, AND ACI 301. CONCRETE SHALL ATTAIN A 28-DAY STRENGTH OF  $f'_c = 2,500$  PSI (5% SACK 2500 PSI CONCRETE MIX PER SBC SECTION C14094.2). AIR-ENTRAINMENT IS NOT REQUIRED FOR DURABILITY PURPOSES. MIXES SHALL BE PROPORTIONED TO PRODUCE A 5-INCH OR LESS SLUMP, WITH A MAXIMUM ALLOWABLE TOLERANCE OF 1-INCH PLUS.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60,  $f_y = 60,000$  PSI. GRADE 60 REINFORCING BARS WHICH ARE TO BE WELDED SHALL CONFORM TO ASTM A706. REINFORCEMENT COMPLYING WITH ASTM A615(S1) MAY BE WELDED ONLY IF MATERIAL PROPERTY REPORTS INDICATING CONFORMANCE WITH WELDING PROCEDURES SPECIFIED IN A.W.S. D1.4 ARE SUBMITTED. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064.
- REINFORCING STEEL SHALL BE DETAILED (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH ACI 315-99 AND 318-18. LAP ALL CONTINUOUS REINFORCEMENT IN ACCORDANCE WITH "REINFORCEMENT SPLICE AND DEVELOPMENT LENGTH SCHEDULE" OF 10/53.1. PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 12" AT SIDES AND ENDS. NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS OTHERWISE NOTED ON THE DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
- CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:  
- FOOTINGS AND OTHER UNFORMED SURFACES CAST AGAINST & PERMANENTLY EXPOSED TO EARTH 3" FOR ALL REINFORCING BAR SIZES  
- FORMED SURFACES EXPOSED TO EARTH (I.E. WALLS BELOW GROUND) OR WEATHER 1 1/2" FOR #5 REINFORCING BARS OR SMALLER  
2" FOR #6 REINFORCING BARS OR LARGER

### 17. DEVELOPMENT AND SPLICE LENGTH SHALL BE NO LESS THAN THAT SHOWN IN TABLE BELOW:

BAR SIZE	MISCELLANEOUS BARS		TOP BARS		HOOKED BARS
	Ld	SPLICE	Ld	SPLICE	
$f_c < 3000$ psi	#3	17"	23"	22"	9"
	#4	22"	29"	29"	38"
	#5	28"	37"	36"	47"
	#6	33"	43"	43"	56"
	#3	15"	20"	19"	25"
	#4	19"	25"	25"	33"
$f_c = 4000$ psi	#5	24"	32"	31"	41"
	#6	29"	38"	37"	49"
	#3	13"	17"	17"	23"
	#4	17"	23"	23"	30"
	#5	22"	29"	28"	37"
	#6	26"	34"	34"	45"
$f_c = 5000$ psi	#3	12"	16"	16"	6"
	#4	16"	21"	21"	28"
	#5	20"	26"	26"	34"
	#6	24"	32"	31"	41"
	#3	10"	14"	14"	18"
	#4	14"	18"	18"	24"

- VALUES FOR UNCOATED REINFORCING AND NORMAL WEIGHT CONCRETE WITH CLEAR SPACING  $> 2d$ , CLEAR COVER  $> db$ , AND MINIMUM STIRRUPS OR TIES THROUGHOUT  $L_d$  OR CLEAR SPACING  $> 2db$  AND CLEAR COVER  $> db$
- DEVELOP ALL REINFORCING IN STRUCTURAL SLABS WITH MINIMUM DEVELOPMENT LENGTH  $L_d$  C.  $L_d =$  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

- BONDING AGENT SHALL BE "MASTEREMACO ADH 326" BY BASF CORPORATION, OR EQUIVALENT, AND SHALL BE USED WHERE NEW CONCRETE IS PLACED AGAINST HARDENED CONCRETE. PLACE IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, INCLUDING PREPARATION OF EXISTING SURFACES. CONCRETE SHALL BE CONSIDERED HARDENED AFTER 56 DAYS.

- NON-SHRINK GROUT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE MIXED AND PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (6,000 PSI MINIMUM).

IBC TABLE 1705.3 REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

REQUIRED?	VERIFICATION & INSPECTION	CONTINUOUS/PERIODIC	REF. STD.	IBC REF.
N/A	1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS AND VERIFY PLACEMENT.	---	X ACI 318 CH. 20, 25.2, 26.3	1908.4
N/A	2. REINFORCING BAR WELDING: A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A305. B. INSPECT SINGLES-PASS FILLET WELDS, MAXIMUM 5/16". C. INSPECT ALL OTHER WELDS.	---	X X AWS D1.4 ACI 318 26.5.4	---
N/A	3. INSPECT ANCHORS CAST IN CONCRETE.	---	X ACI 318: 17.8.2	---
N/A	4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS: A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DETAIL IN 4.4	X	X ACI 318: 17.8.2.4 ACI 318:17.8.2	---
N/A	5. VERIFY USE OF REQUIRED DESIGN MIX.	---	X ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
N/A	6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	---	X ACI 318: 26.4.5, 26.12
N/A	7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	---	X ACI 318: 26.4.5
N/A	8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	---	X ACI 318: 26.4.7-26.4.9	1908.9
N/A	9. INSPECT PRESTRESSED CONCRETE FOR: A. APPLICATION OF PRESTRESSING FORCES; AND B. GROUTING OF BONDED PRESTRESSING TENDONS	X	X ACI 318: 26.9.2.1 ACI 218: 26.9.2.3	---
N/A	10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	---	X ACI 318: CH. 26.8	---
N/A	11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCT. SLABS.	---	X ACI 318: 26.10.2	---
N/A	12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	---	X ACI 318: 26.10.1(b)	---

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

### WOOD:

- 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.P.I.A. WESTERN LUMBER GRADING RULES. FURNISH TO THE FOLLOWING MINIMUM STANDARDS:  
PLATES, LEDGERS & MISC. DOUGLAS FIR NO. 3 OR STUD GRADE  
LIGHT FRAMING: MIN. BASIC DESIGN STRESS,  $F_b = 525$  PSI,  $E = 1400$  KSI  
 $F_c = 775$  PSI,  $F_t = 325$  PSI  
JOISTS & RAFTERS: DOUGLAS FIR NO. 2  
MIN. BASIC DESIGN STRESS,  $F_b = 900$  PSI,  $E = 1600$  KSI  
 $F_c = 1350$  PSI,  $F_t = 575$  PSI  
BEAMS: DOUGLAS FIR NO. 1  
MIN. BASIC DESIGN STRESS,  $F_b = 1000$  PSI,  $E = 1700$  KSI  
 $F_c = 1500$  PSI,  $F_t = 675$  PSI  
4x... MIN. BASIC DESIGN STRESS,  $F_b = 1350$  PSI,  $E = 1600$  KSI  
 $F_c = 925$  PSI,  $F_t = 675$  PSI  
6x... DOUGLAS FIR NO. 1  
MIN. BASIC DESIGN STRESS,  $F_b = 1000$  PSI,  $E = 1700$  KSI  
 $F_c = 1500$  PSI,  $F_t = 675$  PSI  
4x... MIN. BASIC DESIGN STRESS,  $F_b = 1200$  PSI,  $E = 1600$  KSI  
 $F_c = 1000$  PSI,  $F_t = 825$  PSI  
6x...

- 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). THE MINIMUM ALLOWABLE DESIGN VALUES ARE AS FOLLOWS:  
LVL -  $F_b = 2,600$   $F_v = 290$  PSI  $E = 2,000,000$  PSI  
LSL -  $F_b = 1,900$   $F_v = 150$  PSI  $E = 1,300,000$  PSI

- GLUED LAMINATED MEMBERS SHALL BE FABRICATED IN CONFORMANCE WITH ASTM AND A.I.T.C. STANDARDS IN ACCORDANCE WITH SBC SECTION 2303.1.3. EACH MEMBER SHALL BEAR AN A.I.T.C. IDENTIFICATION MARK AND SHALL BE ACCOMPANIED BY AN A.I.T.C. CERTIFICATE OF CONFORMANCE. HORIZONTAL MEMBERS AND INCLINED MEMBERS OF LESS THAN 1:1 SLOPE SHALL HAVE A RADUSED CAMBER OF 3,500 FT. UNLESS OTHERWISE NOTED. SIMPLE SPAN BEAMS DOUGLAS FIR COMBINATION 24F-V4  
 $F_b = 2400$  PSI,  $F_v = 265$  PSI,  $E = 1,800,000$  PSI  
CONTINUOUS OR DOUGLAS FIR COMBINATION 24F-V8  
CANTILEVERED BEAMS  $F_b = 2400$  PSI,  $F_v = 265$  PSI,  $E = 1,800,000$  PSI  
THESE MEMBERS ARE NOTED AS "I" IN PLAN  
GLUED LAMINATED MEMBERS EXPOSED TO WEATHER OR MOISTURE SHALL BE TREATED WITH A NON-CORROSIVE, APPROVED PRESERVATIVE.

- ENGINEERED WOOD I-JOISTS SHALL BE FURNISHED AND INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ALL NECESSARY BRIDGING, BLOCKING, BLOCKING PANELS, STIFFENERS, ETC., SHALL BE DETAILED AND FURNISHED BY THE MANUFACTURER. PERMANENT AND TEMPORARY BRIDGING SHALL BE INSTALLED IN CONFORMANCE WITH MANUFACTURER'S INSTRUCTIONS. ALL JOIST HANGERS AND OTHER HARDWARE SHALL BE COMPATIBLE IN SIZE WITH ENGINEERED WOOD I-JOISTS PROVIDED. DESIGN SHOWN ON THE DRAWINGS IS BASED ON RESIDENTIAL JOISTS MANUFACTURED BY MEYERHAUSER IN ACCORDANCE WITH ICC-ES REPORT NO. ESR-1153. ALTERNATE ENGINEERED WOOD I-JOISTS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD

- PREFABRICATED CONNECTOR PLATE WOOD TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH ANS/IFI 1-2007 AND IBC SECTION 2303.4 FOR THE SPANS AND CONDITIONS SHOWN ON THE DRAWINGS. DESIGN LOADS SHALL BE AS FOLLOWS:  
ROOF TRUSSES  
TOP CHORD LIVE LOAD 25 PSF, SNOW  
BOTTOM CHORD LIVE LOAD 0 PSF  
TOP CHORD DEAD LOAD 10 PSF  
BOTTOM CHORD DEAD LOAD 5 PSF  
WIND UPLIFT (TOP CHORD) SEE NOTE#2 COMPONENTS & CLADDING ROOF LOADS

- THE TRUSS MANUFACTURER SHALL COORDINATE LOCATIONS AND SUPPORT CONFIGURATIONS OF PLUMBING, MECHANICAL UNITS, DUCTS, AND/OR OTHER MISCELLANEOUS ITEMS WITH THE CONTRACTOR PRIOR TO TRUSS FABRICATION. THE TRUSS MANUFACTURER SHALL DESIGN TRUSSES TO SUPPORT ALL LOADS ASSOCIATED WITH SUCH ITEMS. THE TRUSS SHOP DRAWINGS SHALL INCLUDE ALL DESIGN LOADS AND APPROVED HANGER CONNECTION DETAILS TO TRUSS CHORDS FOR SUPPORT OF HUNG MECHANICAL SYSTEM COMPONENTS AS APPLICABLE.

- WOOD TRUSSES SHALL UTILIZE APPROVED CONNECTOR PLATES (GANGNAIL OR EQUAL). SHOP DRAWINGS AND CALCULATIONS SHALL BE PROVIDED AS A DEFERRED SUBMITTAL TO THE CONTRACTOR AND STRUCTURAL ENGINEER OF RECORD PER GENERAL STRUCTURAL NOTE 13. SHOP DRAWINGS SHALL INDICATE SHAPES, BEARING POINTS, INTERSECTIONS, HIPS, VALLEYS, ETC. EXACT COMPOSITION OF SPECIAL HIP, VALLEY, AND INTERSECTION AREAS (USE OF ORDER TRUSSES, JACK TRUSSES, STEP-DOWN TRUSSES, ETC.) SHALL BE DETERMINED BY THE MANUFACTURER UNLESS OTHERWISE NOTED ON THE DRAWINGS. THE TRUSS MANUFACTURER SHALL PROVIDE ALL TRUSS-TO-TRUSS BEAM/JOIST CONNECTION DETAILS AND REQUIRED CONNECTION MATERIALS. THE TRUSS MANUFACTURER SHALL DESIGN AND PROVIDE DETAILS FOR ALL TEMPORARY AND PERMANENT TRUSS BRACING AND BRIDGING.

- ROOF & WALL SHEATHING SHALL BE APA RATED, EXTERIOR OR EXPOSURE 1 PLYWOOD OR ORIENTED STRAND BOARD (OSB) IN CONFORMANCE WITH SBC SECTION 2303.1.5. SHEATHING SHALL BE MANUFACTURED UNDER THE PROVISIONS OF VOLUNTARY PRODUCT STANDARDS PS 1-09, PS 2-10, OR APA PRP-108 PERFORMANCE STANDARDS AND POLICES FOR STRUCTURAL USE PANELS. SEE DRAWINGS FOR THICKNESS, SPAN RATING, AND NAILING REQUIREMENTS.

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

- 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 (SDB) WITHOUT NaSO<sub>2</sub> AT LOCATIONS PERMANENTLY EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, WOOD MEMBERS SHALL BE PRESSURE-TREATED WITH ALKALINE COPPER QUAT (ACC-COR FOR DOUGLAS-FIR) PRESERVATIVE UNLESS OTHERWISE NOTED. AMMONIACAL COPPER ZINC ARSENATE (ACZA) PRESERVATIVE OR OTHER PRESERVATIVES WITH AMMONIA CARRIERS, SHALL NOT BE USED. GLUED LAMINATED MEMBERS EXPOSED TO WEATHER OR MOISTURE SHALL BE TREATED WITH A NON-CORROSIVE, APPROVED PRESERVATIVE. SEE NOTE #27 FOR MATERIAL REQUIREMENTS OF CONNECTORS AND FASTENERS IN CONTACT WITH PRESSURE-TREATED MEMBERS.

- 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-C-2017-18. INSTALL NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, CENTER STRAP ON JOINT AND INSTALL NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER, WITH EQUAL NUMBER AND SIZE OF FASTENERS IN EACH MEMBER. ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. INSTALL WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. ALL SHIMS SHALL BE SEASONED AND DRIED AND THE SAME GRADE (MINIMUM) AS MEMBERS CONNECTED.

- ALL TIMBER CONNECTORS IN CONTACT WITH PRESSURE-TREATED WOOD THAT USED PRESERVATIVE CHEMICALS OTHER THAN DOT SODIUM BORATE (SDB) WITHOUT NaSO<sub>2</sub> SHALL BE MANUFACTURED FROM MAX STEEL BY SIMPSON (G185 STEEL PER ASTM A653), OR TYPE 304 OR 316 STAINLESS STEEL. ALTERNATIVELY, CONNECTORS CAN BE POST HOT DIP GALVANIZED PER ASTM A123 OR MECHANICALLY GALVANIZED PER ASTM B695, CLASS 55 OR GREATER. STAINLESS STEEL FASTENERS SHALL BE USED WITH STAINLESS STEEL CONNECTORS, AND HOT DIP GALVANIZED FASTENERS PER ASTM A153 SHALL BE USED WITH GALVANIZED CONNECTORS.

### 29. WOOD FRAMING NOTES: THE FOLLOWING SHALL APPLY UNLESS OTHERWISE NOTED ON THE DRAWINGS:

- ALL WOOD FRAMING DETAILS SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE SBC. MINIMUM NAILING SHALL CONFORM TO SBC TABLE 2304.91 OR CURRENT ICC-ES REPORT NER-272. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. INSTALL WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. INSTALLATION OF LAG SCREWS SHALL CONFORM TO 2012 NDS SECTION 11.1.4, AND INSTALLATION OF BOLTS SHALL CONFORM TO 2012 NDS SECTION 11.1.3.

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

- ALL STUD WALLS SHALL HAVE THEIR LOWER WOOD PLATES ATTACHED TO WOOD FRAMING BELOW WITH 16d NAILS @ 12" STAGGERED OR BOLTED TO CONCRETE WITH 3/8" ANCHOR BOLTS @ 4'-0" OC PER SBC SECTION 2308.6 (EMBED 7"). UNLESS OTHERWISE NOTED, 3" x 3" x 0.239" PLATE WASHERS SHALL BE USED WITH ALL SILL PLATE ANCHOR BOLTS AND INSTALLED PER A804.4 SPPWS-2008 SECTION 4.3.6.3. INDIVIDUAL MEMBERS OF BUILT-UP STUD POSTS SHALL BE NAILED TO EACH OTHER WITH 16d @ 12" OC STAGGERED.

- 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. NAIL ALL MULTI-JOIST BEAMS TOGETHER WITH 16d@12" OC STAGGERED.  
JOIST AND FLOOR SHEATHING SHALL BE LAID UP WITH GRAIN PERPENDICULAR TO SUPPORTS AND NAILED AS SHOWN ON THE DRAWINGS. INSTALL APPROVED PANEL EDGE CLIPS CENTERED BETWEEN JOISTS/TRUSSES AT UNBLOCKED ROOF SHEATHING EDGES. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED TONGUE-AND-GROOVE JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING ALLOWING 3/8" SPACING AT ALL PANEL EDGES AND ENDS OF LOAR AND ROOF SHEATHING. TOENAIL BLOCKING TO SUPPORTS WITH 16d@12" OC. IN ACCORDANCE WITH SBC SECTION 1604.8.3, DECKS SHALL BE POSITIVELY ANCHORED TO THE STRUCTURE BY MEANS OTHER THAN NAILS SUBJECT TO WITHDRAWAL ANCHOR WITH MINIMUM (1) C516 STRAP AT EACH END ATTACHED TO DECK JOISTS AND TO A SOLID BLOCKING MEMBER WITHIN THE BUILDING.

- NAILING: A MINIMUM NAIL DIAMETER AND LENGTH SHALL BE AS FOLLOWS:  
NAIL SIZE ON DRAWINGS DIAMETER x LENGTH  
SHEATHING NAILS 8d 0.131" x 2 1/2"  
10d 0.148" x 2 3/4"  
FRAMING NAILS 10d 0.148" x 3"  
16d 0.148" x 3 1/2"

- 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 AT ALL WOOD FRAMING LEVELS. THE WOOD SHRINKAGE AMOUNT SHALL BE ASSUMED TO EQUAL 3/8" FOR EACH WOOD FRAMED FLOOR LEVEL.

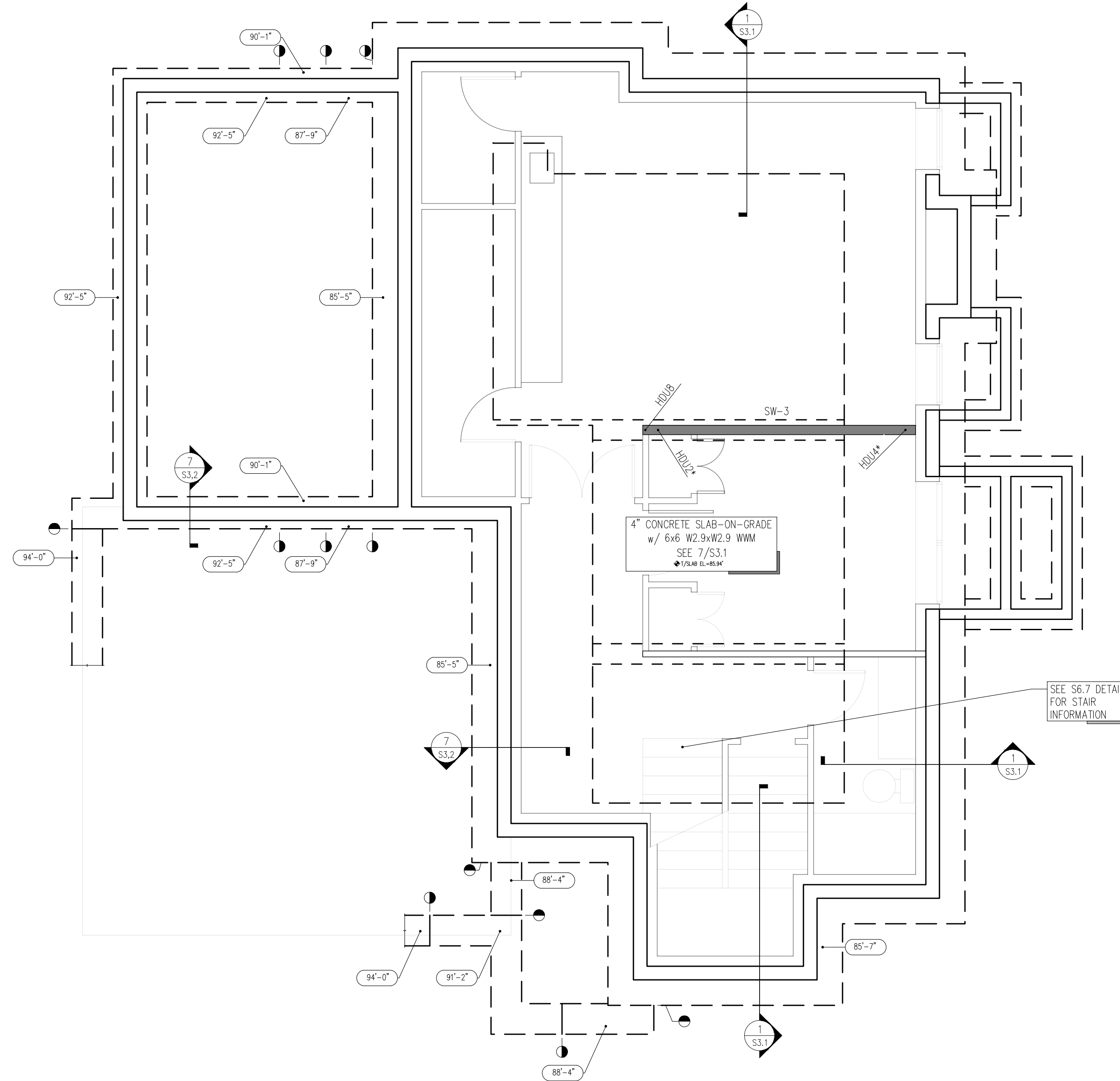
## Minimum Connectors and Fasteners for Wood Members per IBC 2018

DESCRIPTION OF BLDG. ELEMENT	NUMBER AND TYPE OF FASTENERS	SPACING & LOCATION
ROOF		
1. BLOCKING BETWEEN CEILING JOISTS, RAFTERS, OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW	3-8d COMMON (2 1/2" x 0.131"); or 3-10d BOX (3" x 0.128"); or 3-3" x 0.131" NAILS; or 3-3" x 14 GAGE STAPLES, 3/16" CROWN	EACH END, TOENAIL
BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL TOP PLATE, TO RAFTER OR TRUSS	2-8d COMMON (2 1/2" x 0.131") 2-3" x 0.131" NAILS 2-3" x 14 GAGE STAPLES 2-16d COMMON (3 1/2" x 0.162") 2-16d COMMON (3 1/2" x 0.162") 3-3" x 0.131" NAILS 3-3" x 14 GAGE STAPLES	EACH END, TOENAIL END NAIL
FLAT BLOCKING TO TRUSS AND WEB FILLER	16d COMMON (3 1/2" x 0.162") @ 6" oc 3" x 0.131" NAILS @ 6" oc 3" x 14 GAGE STAPLES @ 6" oc	FACE NAIL
2. CEILING JOISTS TO TOP PLATE	3-8d COMMON (2 1/2" x 0.131"); or 3-10d BOX (3" x 0.128"); or 3-3" x 0.131" NAILS; or 3-3" x 14 GAGE STAPLES, 3/16" CROWN	EACH JOIST, TOENAIL
3. CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITION (NO THRUST) (SEE 2308.7.3.1, TABLE 2308.7.3.1)	3-16d COMMON (3 1/2" x 0.162"); or 4-10d BOX (3" x 0.128"); or 4-3" x 0.131" NAILS; or 4-3" x 14 GAGE STAPLES, 3/16" CROWN	FACE NAIL
4. CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT)	PER TABLE 2308.7.3.1	FACE NAIL
5. COLLAR TIE TO RAFTER	3-10d COMMON (3" x 0.148"); or 4-10d BOX (3" x 0.128"); or 4-3" x 0.131" NAILS; or 4-3" x 14 GAGE STAPLES, 3/16" CROWN	FACE NAIL
6. RAFTER OR ROOF TRUSS TO TOP PLATE (SEE 2308.7.5, TABLE 2308.7.5)	3-10d COMMON (3" x 0.148"); or 3-16d BOX (3 1/2" x 0.135"); or 4-10d BOX (3" x 0.128"); or 4-3" x 0.131" NAILS; or 4-3" x 14 GAGE STAPLES, 3/16" CROWN	TOENAIL
7. ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS; OR ROOF RAFTER TO 2" RIDGE BEAM	2-16d COMMON (3 1/2" x 0.162"); or 3-10d BOX (3" x 0.128"); or 3-3" x 0.131" NAILS; or 3-3" x 14 GAGE STAPLES, 3/16" CROWN 3-10d COMMON (3 1/2" x 0.148"); or 3-16d BOX (3 1/2" x 0.135"); or 4-10d BOX (3" x 0.128"); or 4-3" x 0.131" NAILS; or 4-3" x 14 GAGE STAPLES, 3/16" CROWN	END NAIL TOENAIL
WALL		
8. STUD TO STUD (NOT AT SHEARWALL CHORDS)	16d COMMON (3 1/2" x 0.162") 10d BOX (3" x 0.128"); or 3" x 0.131" NAILS; or 3-3" x 14 GAGE STAPLES, 3/16" CROWN	24" oc FACE NAIL 16" oc FACE NAIL
9. STUD TO STUD AND ABUTTING STUDS AT INTERSECTION WALL CORNERS	16d COMMON (3 1/2" x 0.162"); or 16d BOX (3 1/2" x 0.135"); or 3" x 0.131" NAILS; or 3-3" x 14 GAGE STAPLES,	

LEGEND

	CONCRETE FOOTING
	CONCRETE WALL
	POST
	STEP IN FOOTING PER 9/S3.1
	DENOTES TOP OF FOOTING ELEVATION (±)

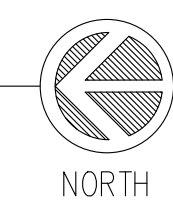
CONNECTOR TABLE		
SIMPSON DESIGNATION	NOTES	
ITS ~or~ IUS	HANGER	Ⓐ
HB7.12/16	TOP FLANGE HANGER	Ⓑ
JB ~or~ LUS	HANGER	Ⓒ
HUC410	CONCEALED FLANGE HANGER	Ⓓ
IUS3.56/9.5	FACE MOUNT HANGER	Ⓔ
IUS3.56/11.88	FACE MOUNT HANGER	Ⓕ



**BASEMENT FLOOR AND 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 #13 - 19 FOR CONCRETE AND CONCRETE REINFORCING REQUIREMENTS.
- SEE GENERAL STRUCTURAL NOTE #11 FOR FOUNDATION CRITERIA.

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



ATLAS CONSULTING STRUCTURAL ENGINEERS

**Imani Residence**  
2728 63rd Ave SE Mercer Island WA

**CONTENTS**  
Lower Floor and Foundation Plan

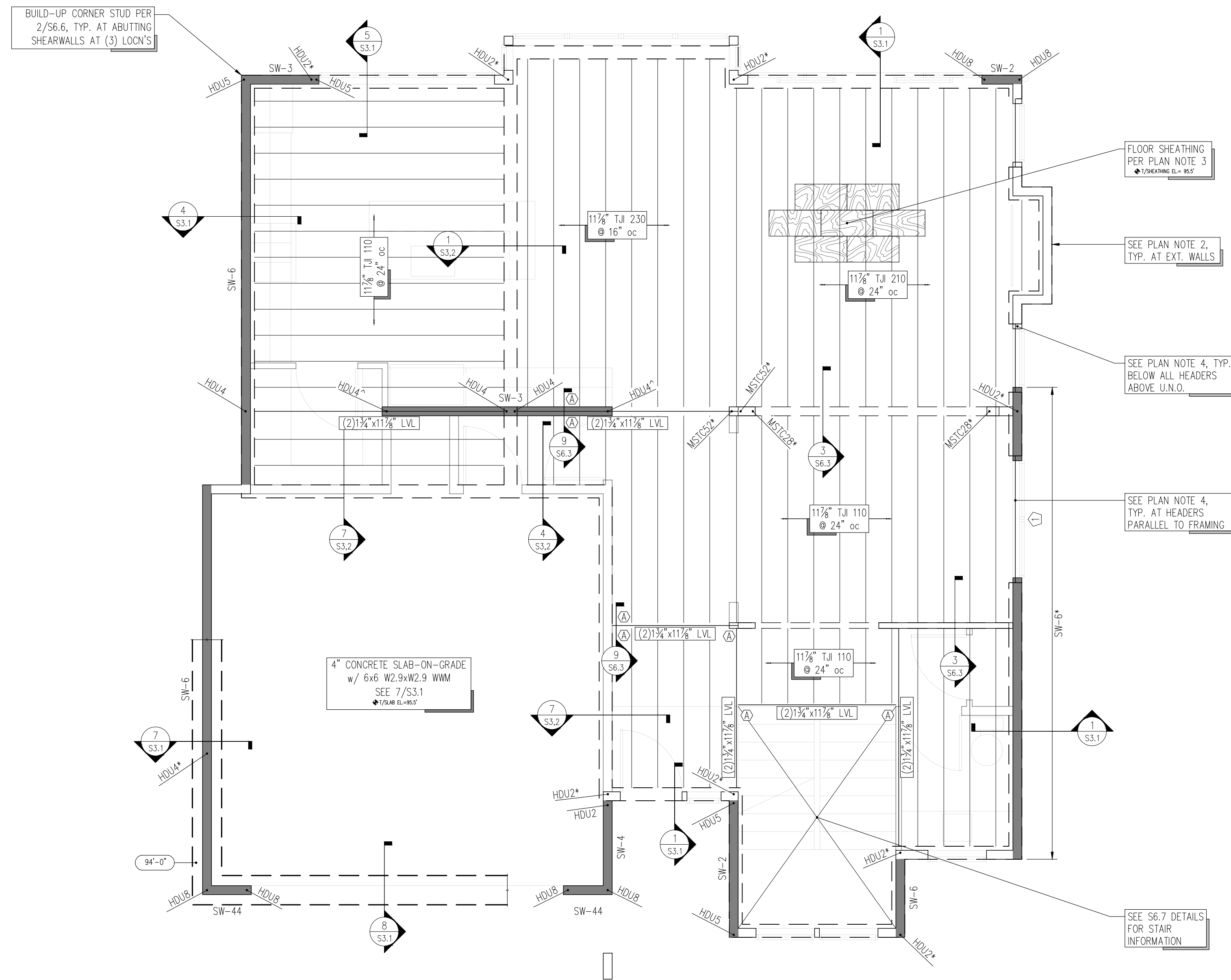
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**S2.1**

LEGEND

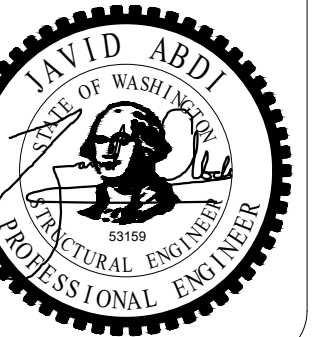
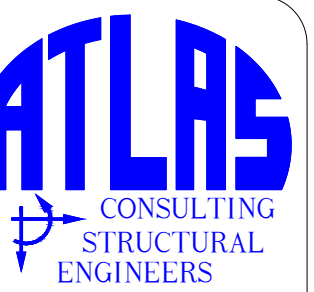
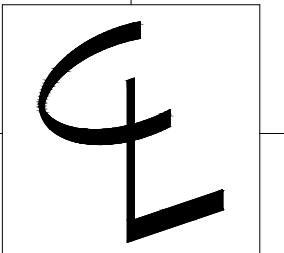
	CONCRETE WALL BELOW		DENOTES EXTENT OF SHEARWALL TYPE SW- PER 1/S6.5
	CONCRETE WALL		DENOTES STRAPPED SHEARWALL PER 7/S6.6, WITH C DENOTING STRAP PER SCHEDULE ABOVE & BELOW OPENING
	STRUCTURAL WOOD STUDWALL		DENOTES SHEARWALL TENSION TIE PER 4/S6.6 OR 8/S6.6
	POST BELOW		* - DENOTES TRANSFER TIE FROM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

CONNECTOR TABLE	
SIMPSON DESIGNATION	NOTES
(A) ITS -or- IUS	HANGER
(B) HB7.12/16	TOP FLANGE HANGER
(C) JB -or- LUS	HANGER
(D) HUC410	OMEGA END FLANGE HANGER
(E) IUS3.56/9.5	FACE MOUNT HANGER
(F) IUS3.56/11.88	FACE MOUNT HANGER



- 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.
  - HEADERS IN EXTERIOR WALLS NOT SUPPORTING RAFTERS, JOISTS, OR BEAMS SHALL BE PER DETAIL 4/S6.1 U.N.O. IN PLAN.
  - HEADERS IN EXTERIOR WALLS PERPENDICULAR TO FRAMING SHALL BE PER DETAIL 6/S6.1 U.N.O. IN PLAN.

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



Imani Residence  
2728 63rd Ave SE Mercer Island WA

CONTENTS  
Main Floor Framing Plan

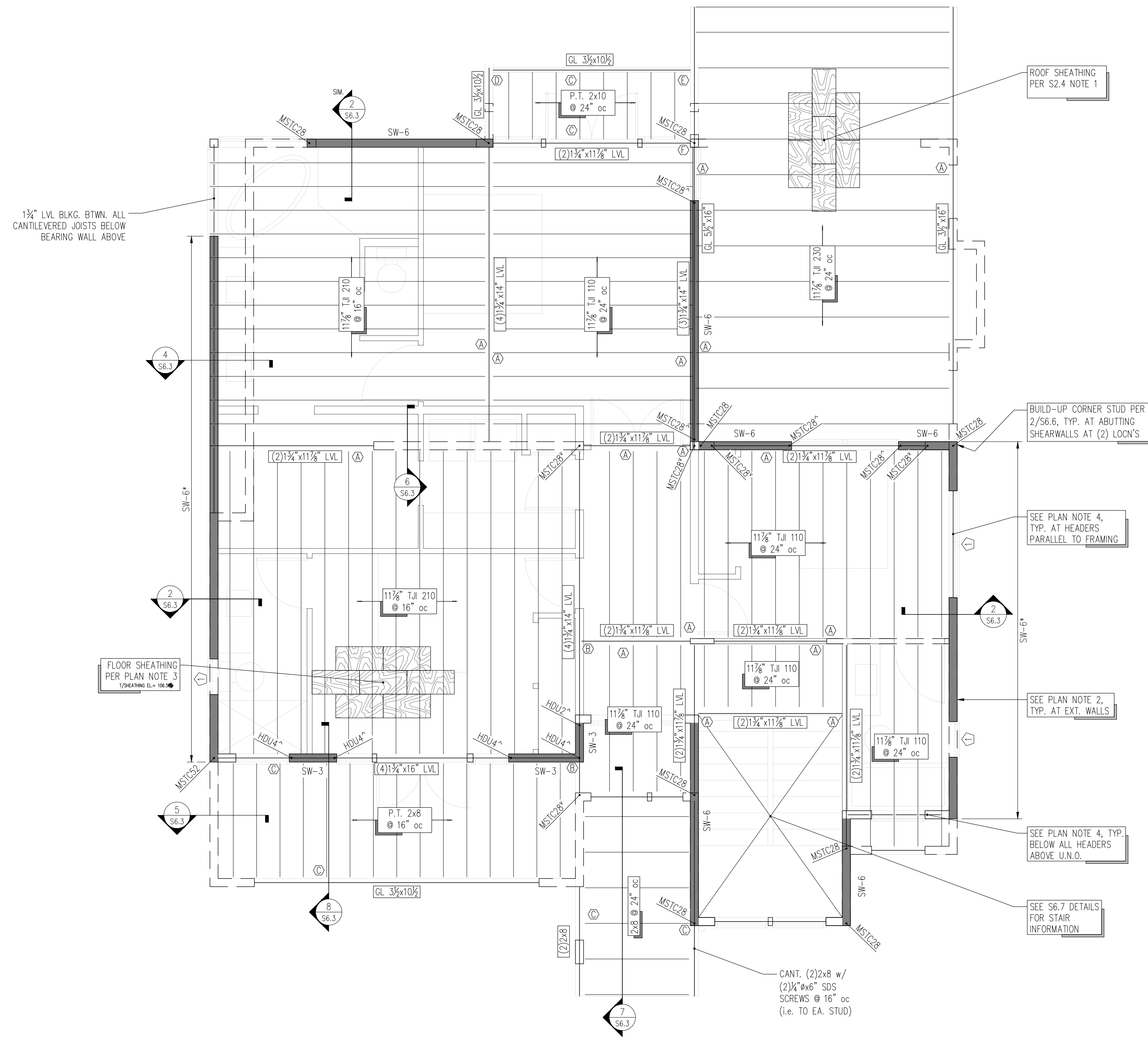
DRAWN BY  
JDA  
DATE  
01.06.25

S2.2

LEGEND

	STRUCTURAL WOOD STUDWALL BELOW		DENOTES EXTENT OF SHEARWALL TYPE SW- PER 1/S6.5
	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 TRANSFER TIE FROM THE ABOVE - DENOTES TIE AT TOP STEEL BEAM, SEE 8/S6.6
	HEADER OR BEAM		
	JOIST		

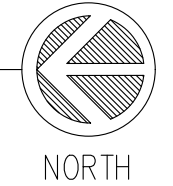
CONNECTOR TABLE		
SIMPSON DESIGNATION	NOTES	
ITS ~or~ IUS	HANGER	
HB7.12/16	TOP FLANGE HANGER	
JB ~or~ LUS	HANGER	
HUC410	CONCEALED FLANGE HANGER	
IUS3.56/9.5	FACE MOUNT HANGER	
IUS3.56/11.88	FACE MOUNT HANGER	



**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.
- HEADERS IN EXTERIOR WALLS PERPENDICULAR TO FRAMING SHALL BE PER DETAIL 6/S6.1 U.N.O. IN PLAN.

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



Imani Residence  
2728 63rd Ave SE Mercer Island WA

CONTENTS  
Upper Floor Framing Plan

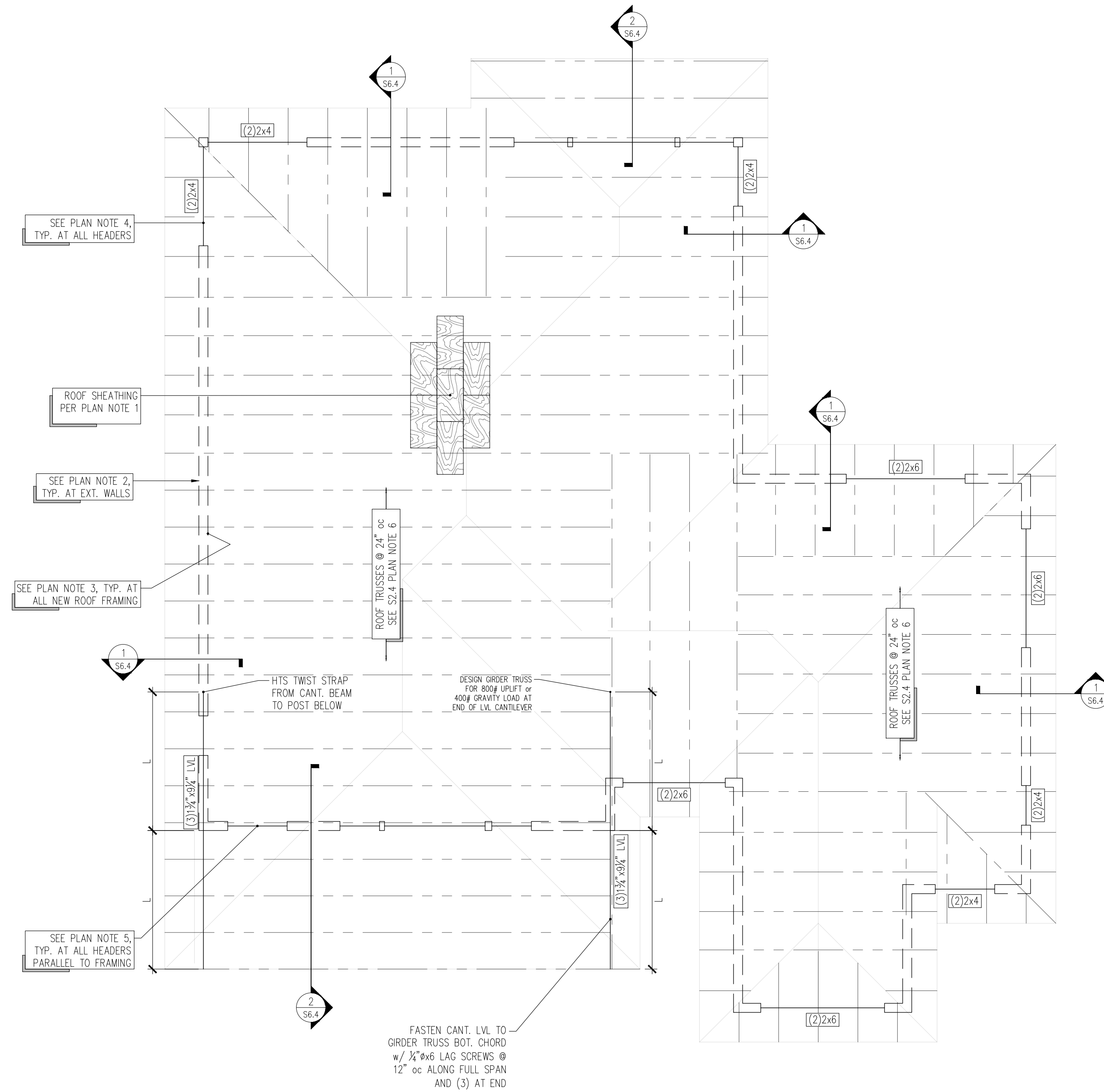
DRAWN BY  
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DATE  
01.06.25

S2.3

LEGEND

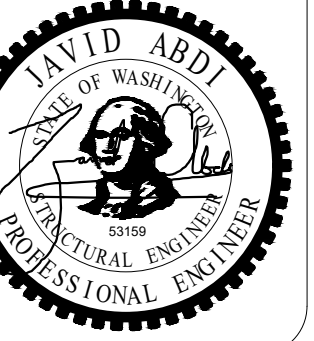
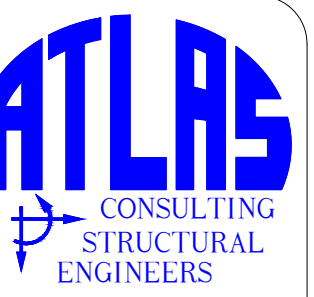
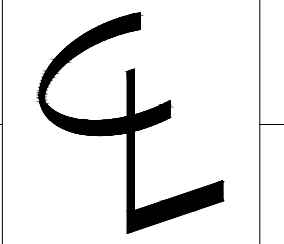
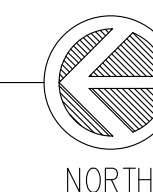
	STRUCTURAL WOOD STUDWALL BELOW
	POST BELOW
	HEADER or BEAM
	CONNECTOR PLATE
	WOOD TRUSS
	ROOF FRAMING

CONNECTOR TABLE		
SIMPSON DESIGNATION	NOTES	
ITS ~or~ IUS	HANGER	(A)
HB7.12/16	TOP FLANGE HANGER	(B)
JB ~or~ LUS	HANGER	(C)
HUC410	CONCEALED FLANGE HANGER	(D)
IUS3.56/9.5	FACE MOUNT HANGER	(E)
IUS3.56/11.88	FACE MOUNT HANGER	(F)



- 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 24 FOR CONNECTOR PLATE ROOF TRUSS REQUIREMENTS.

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



Imani Residence  
2728 63rd Ave SE Mercer Island WA

CONTENTS

Roof Framing Plan

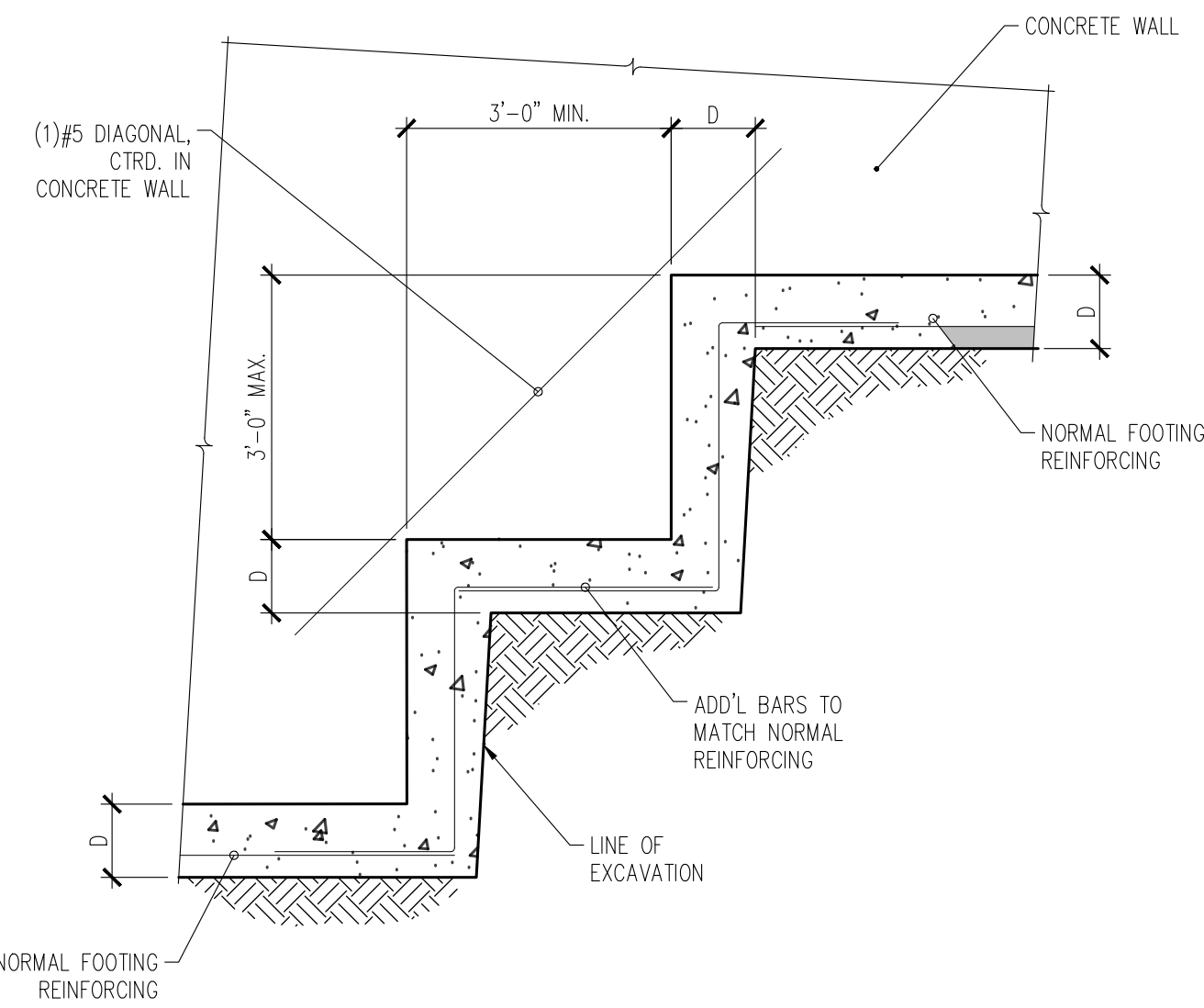
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JDA

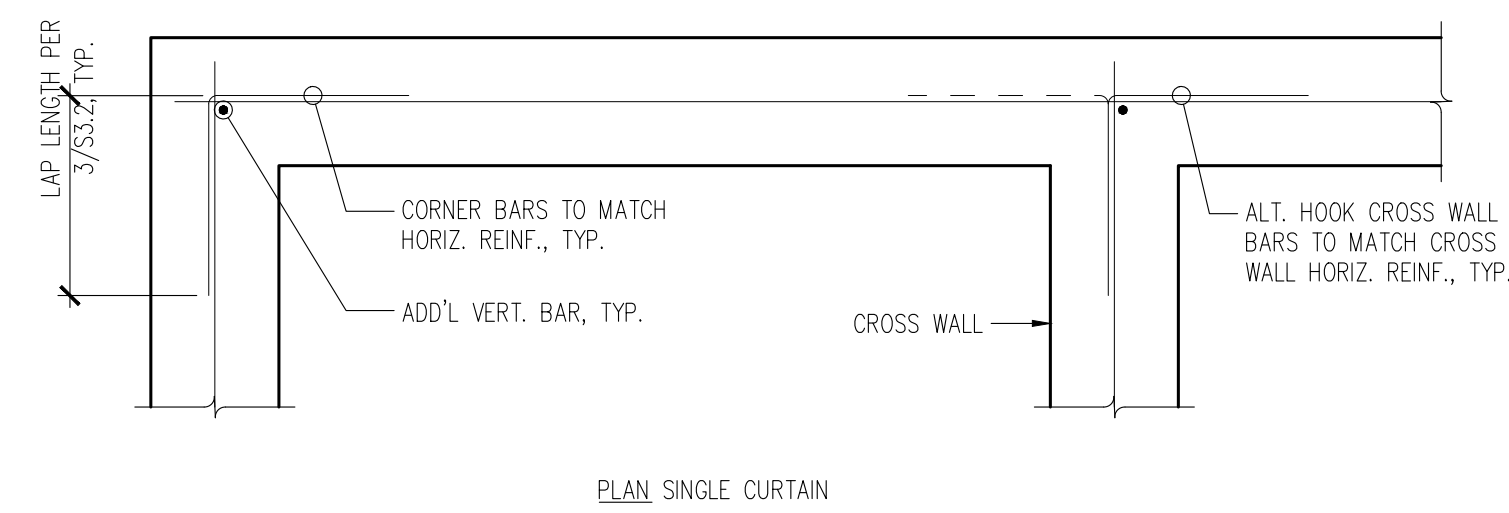
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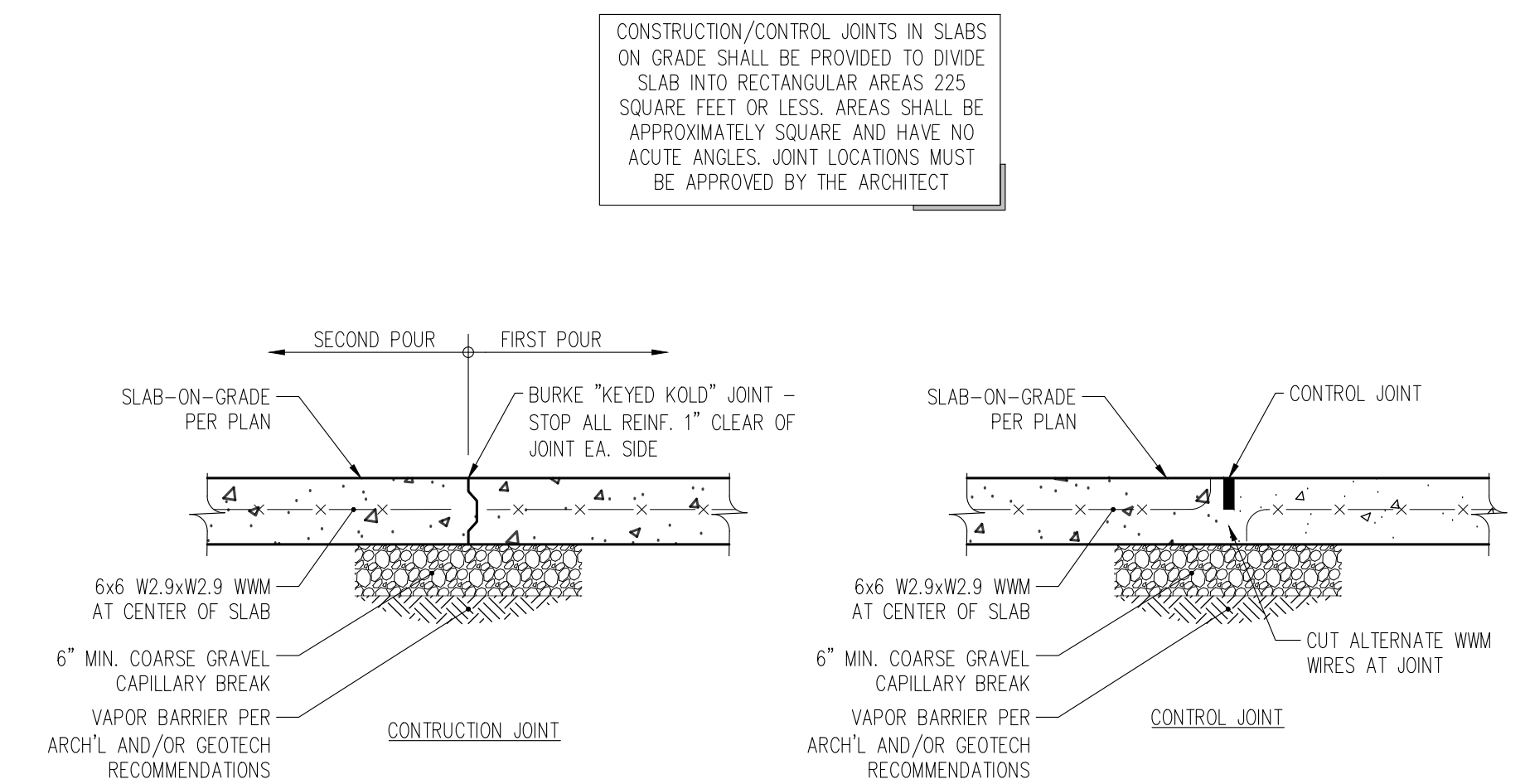
S2.4



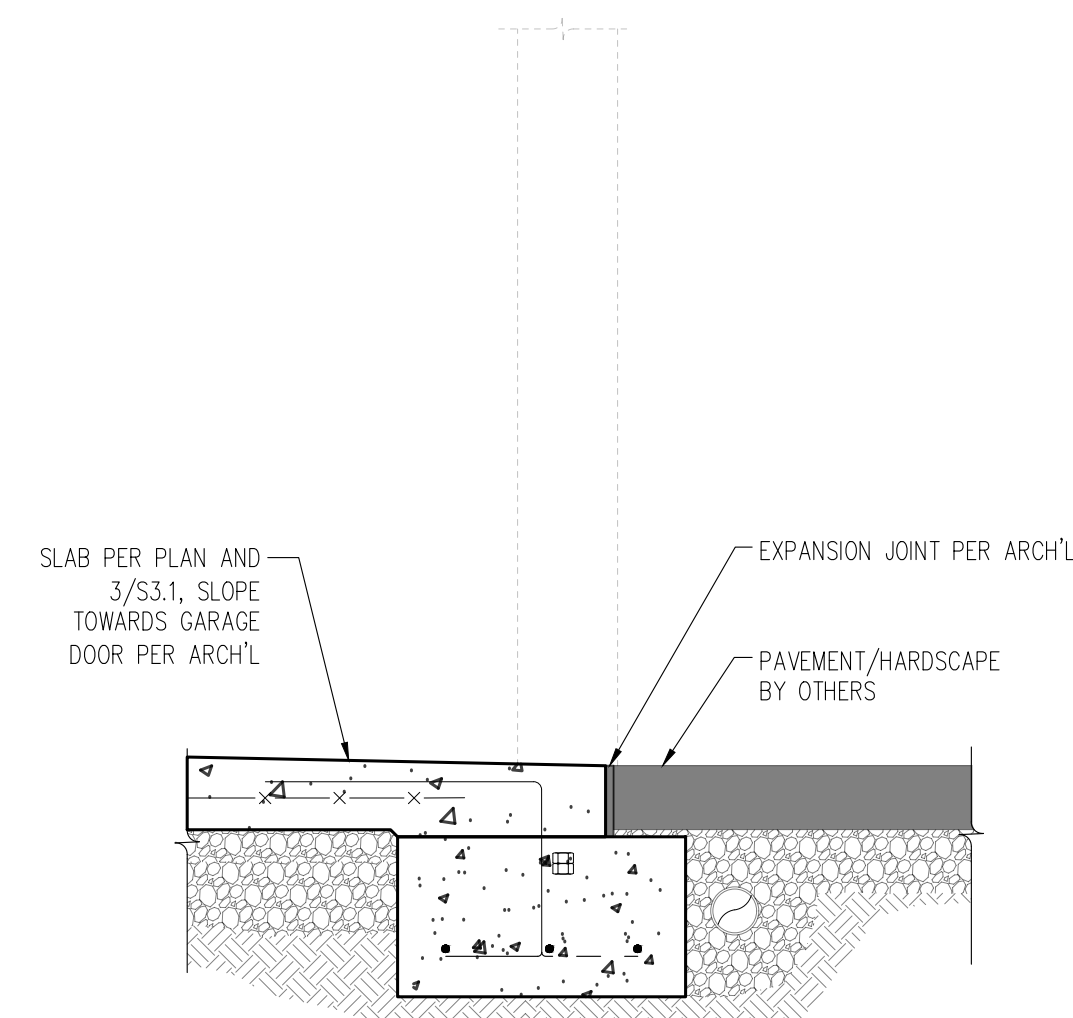
9 TYPICAL STEPPED FOOTING  
S3.1 N.T.S.



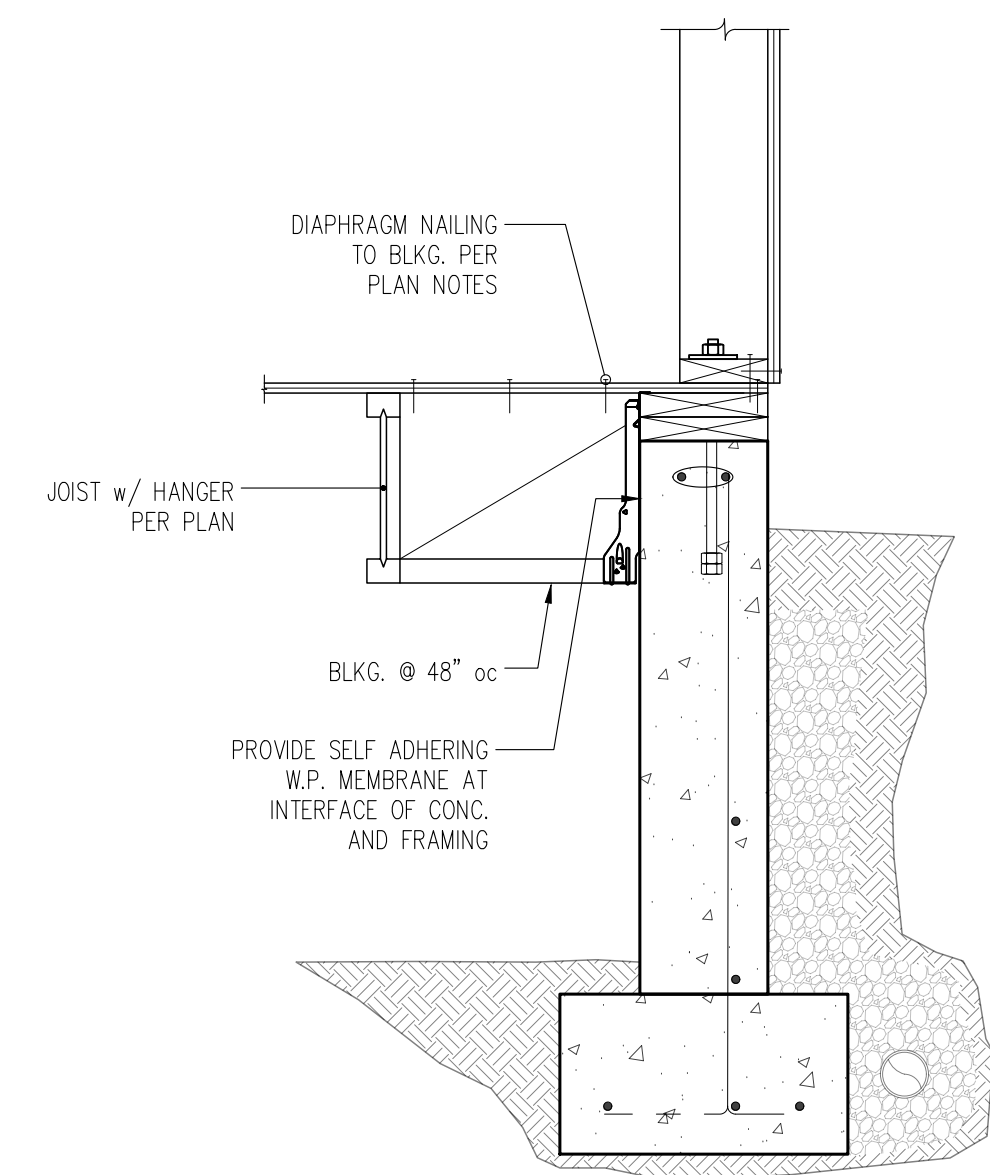
6 WALL CORNER REINFORCING  
S3.1 N/A



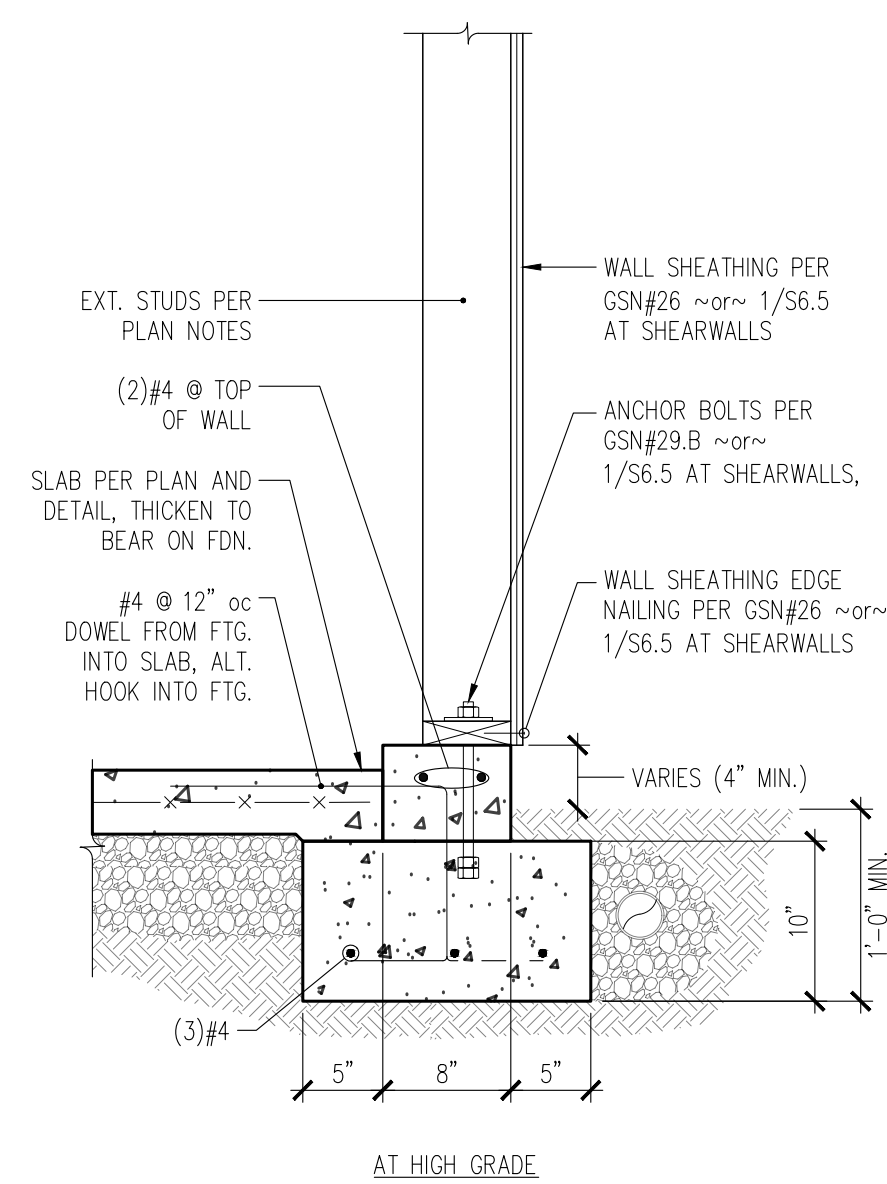
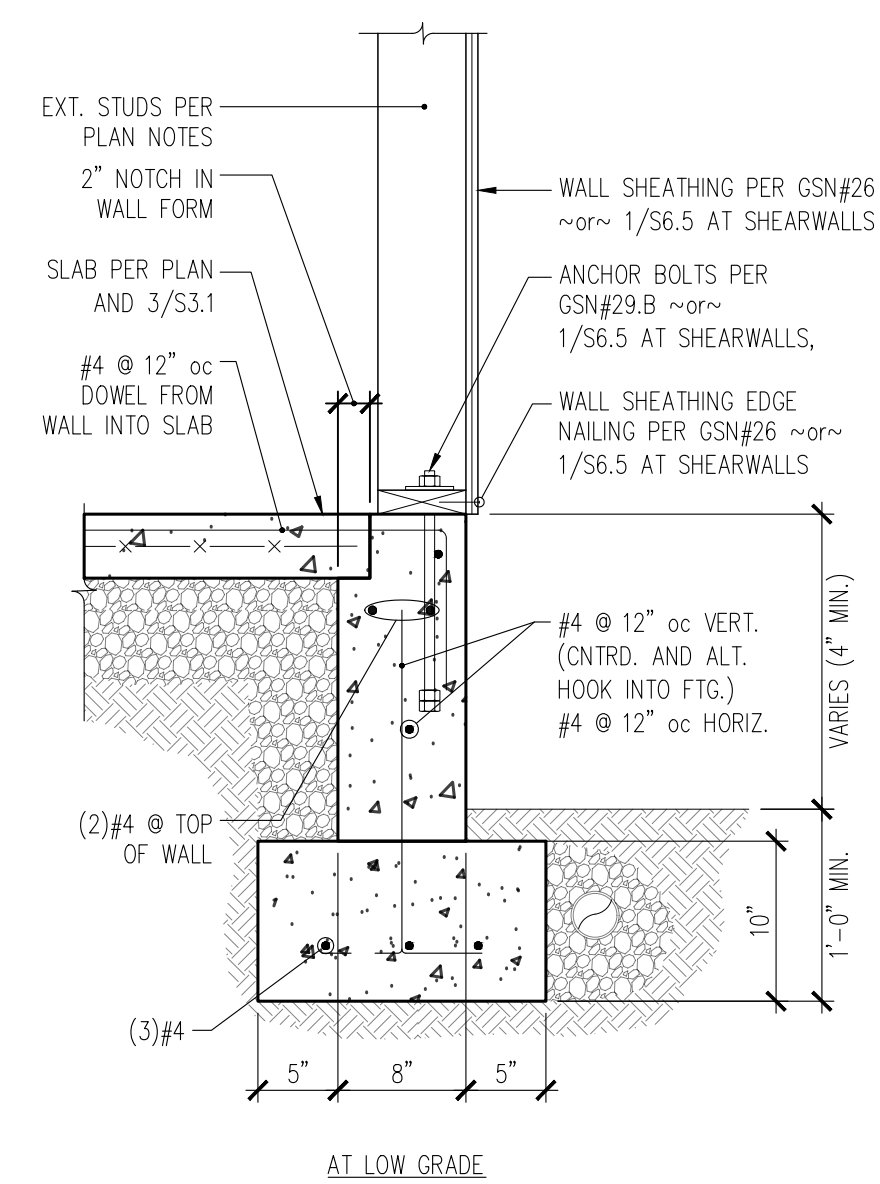
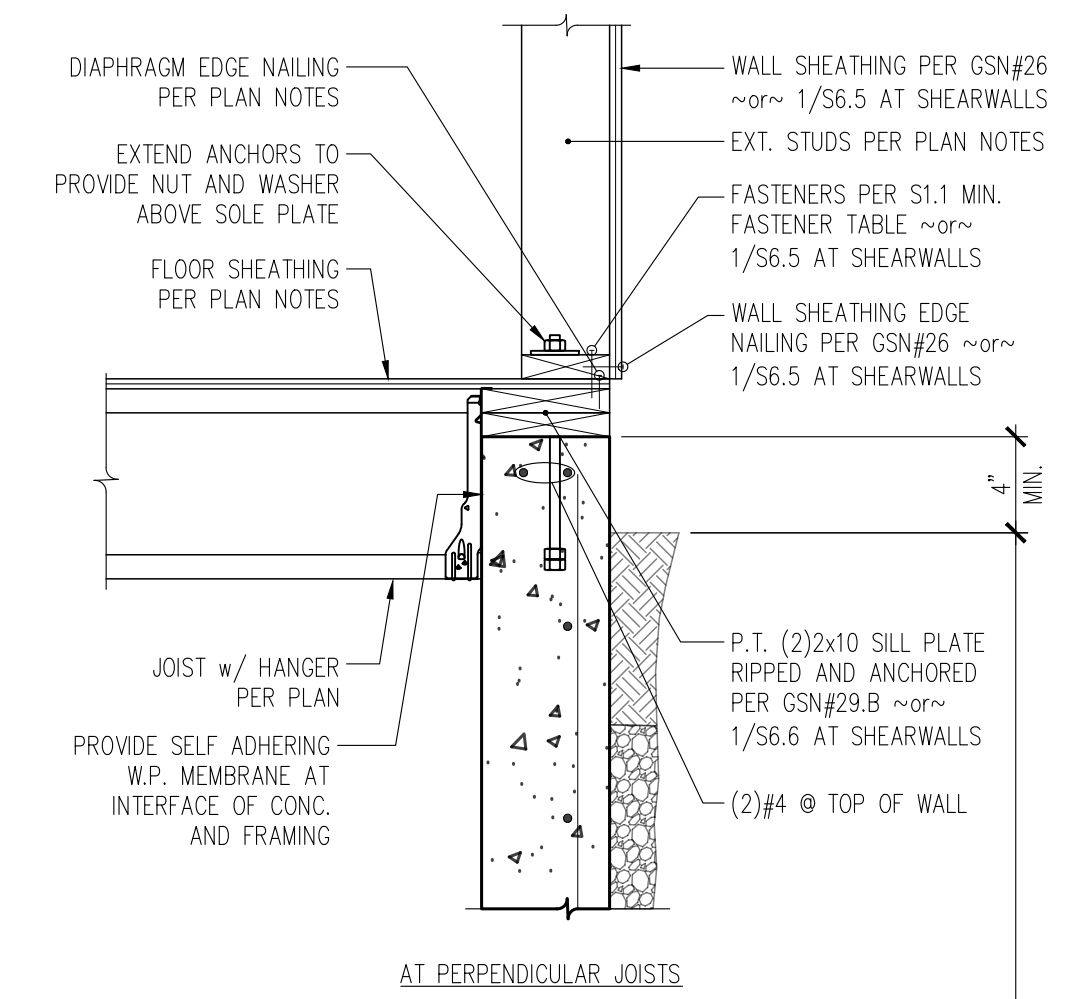
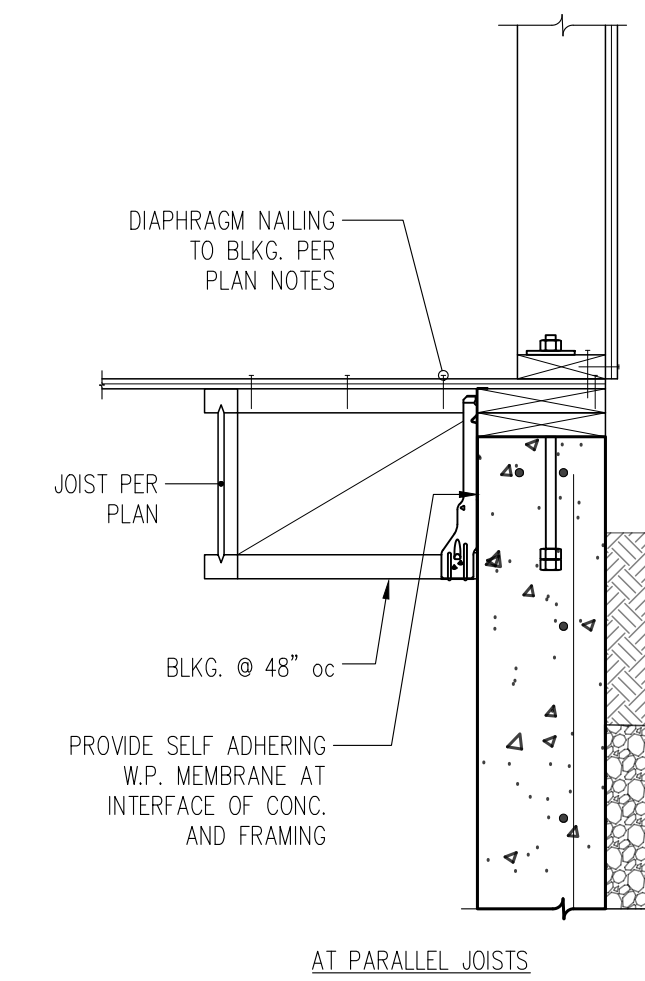
3 EXTERIOR SLAB-ON-GRADE JOINTING  
S3.1 1" = 1'-0"



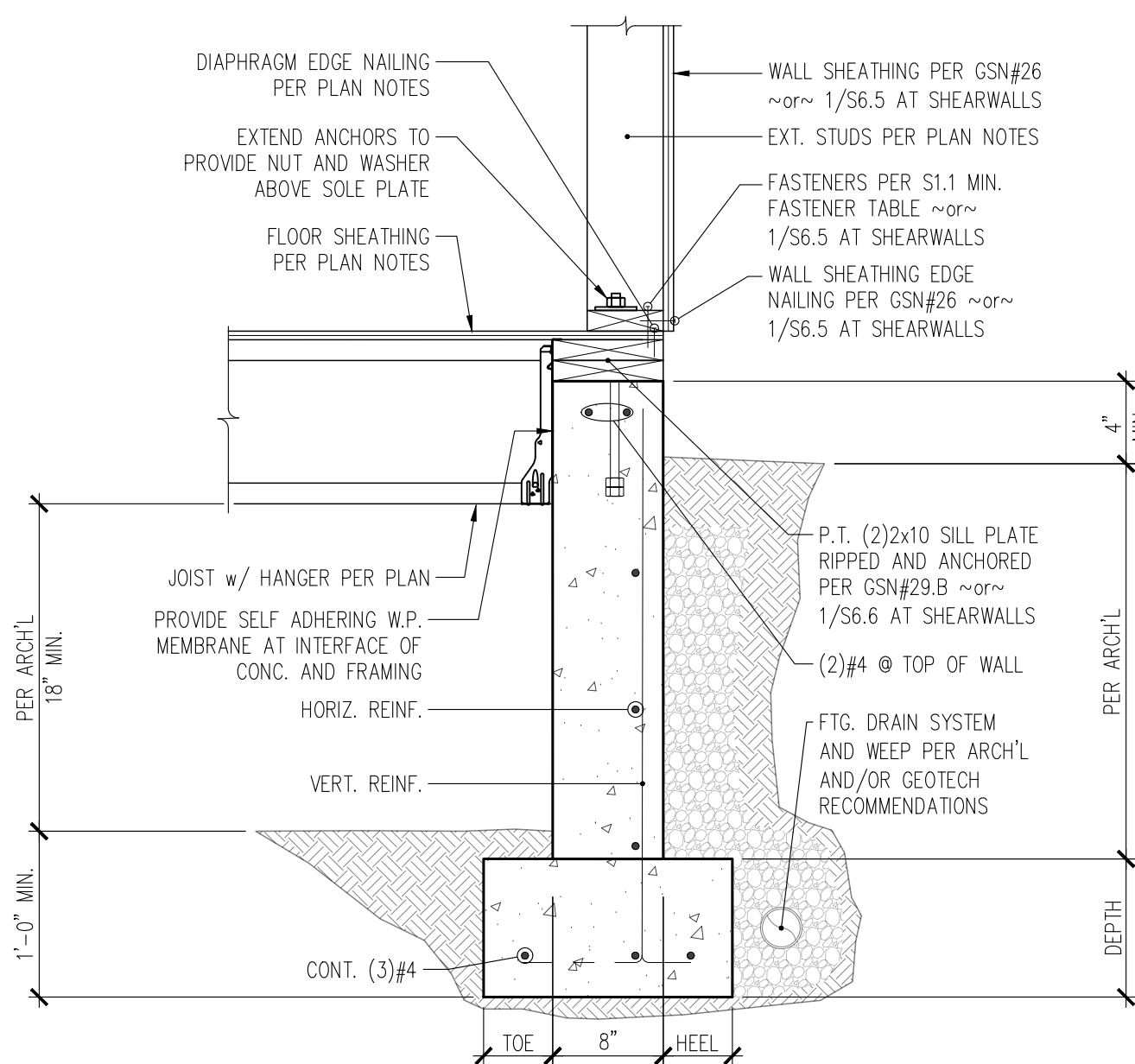
8 SECTION AT GARAGE SLAB AT GARAGE DOOR  
S3.1 1" = 1'-0"



5 SECTION AT CRAWLSPACE FOUNDATION WALL AND PARALLEL JOISTS  
S3.1 1" = 1'-0"



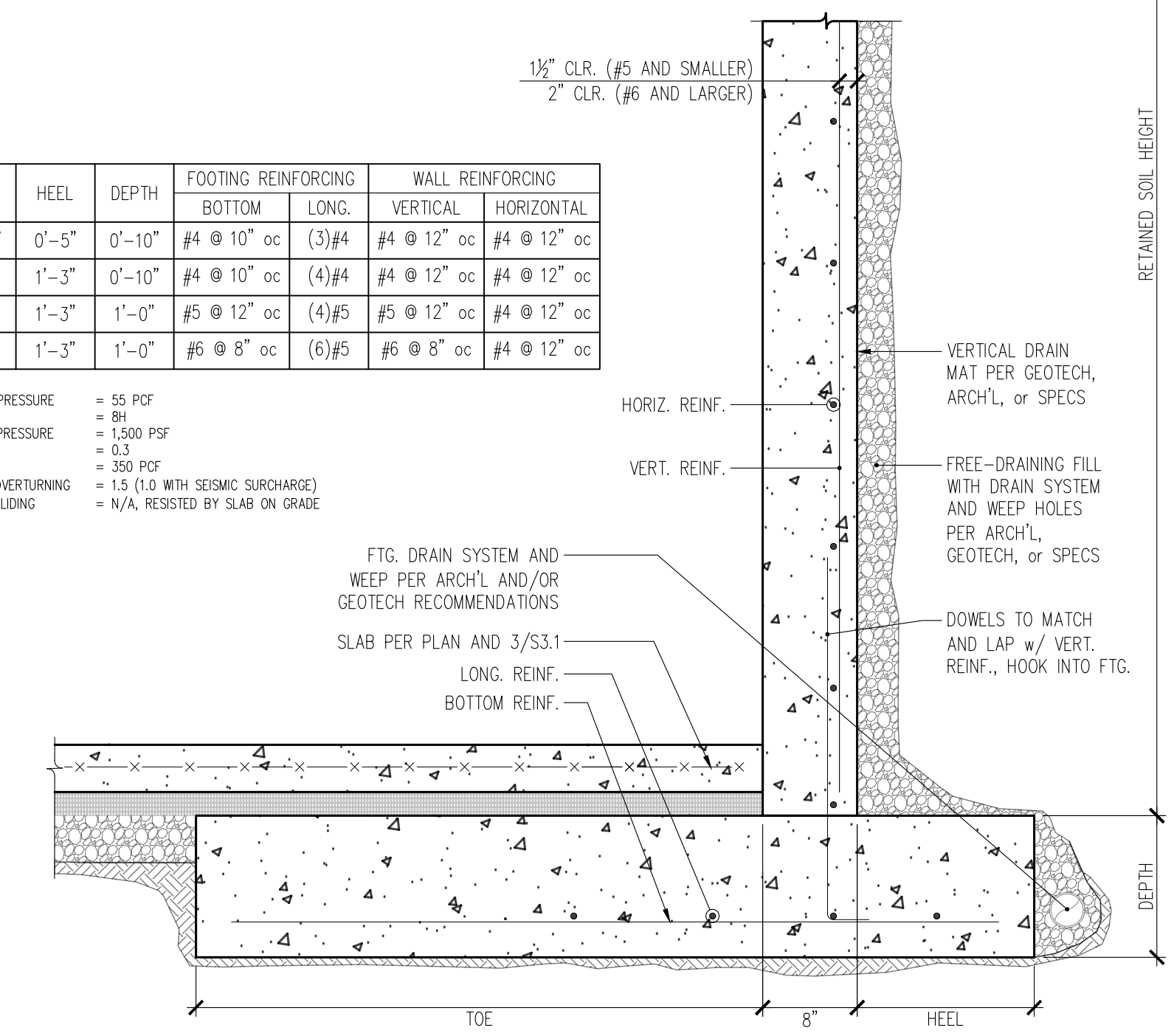
7 SECTION AT GARAGE SLAB ON GRADE FOUNDATION WALL  
S3.1 1" = 1'-0"



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

RETAINED SOIL HEIGHT	TOE		HEEL		FOOTING REINFORCING		WALL REINFORCING	
	TOE	HEEL	TOE	HEEL	BOTTOM	LONG.	VERTICAL	HORIZONTAL
≤ 3'-6"	0'-10"	0'-5"	0'-10"	0'-5"	#4 @ 10" oc	(3)#4	#4 @ 12" oc	#4 @ 12" oc
≤ 5'-6"	1'-3"	1'-3"	0'-10"	0'-10"	#4 @ 10" oc	(4)#4	#4 @ 12" oc	#4 @ 12" oc
≤ 7'-6"	2'-3"	1'-3"	1'-0"	1'-0"	#5 @ 12" oc	(4)#5	#5 @ 12" oc	#4 @ 12" oc
≤ 9'-6"	4'-0"	1'-3"	1'-0"	1'-0"	#6 @ 8" oc	(6)#5	#6 @ 8" oc	#4 @ 12" oc

NOTE  
 MAXIMUM HORIZONTAL DESIGN PRESSURE = 55 PSF  
 SEISMIC OVERCHARGE = 84  
 MINIMUM ALLOWABLE BEARING PRESSURE = 1,500 PSF  
 COEFFICIENT OF FRICTION = 0.3  
 PASSIVE RESISTANCE = 300 PCF  
 MINIMUM FACTOR OF SAFETY, OVERTURNING = 1.5 (1.0 WITH SEISMIC SURCHARGE)  
 MINIMUM FACTOR OF SAFETY, SLIDING = N/A, RESISTED BY SLAB ON GRADE



1 SECTION THROUGH FOUNDATION WALL AT SLAB ON GRADE BASEMENT  
S3.1 N.T.S.

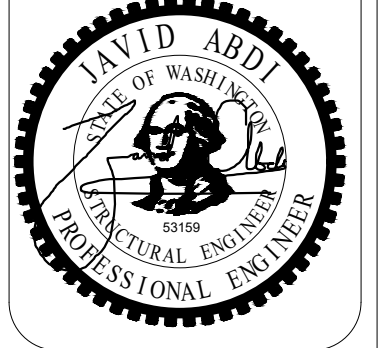
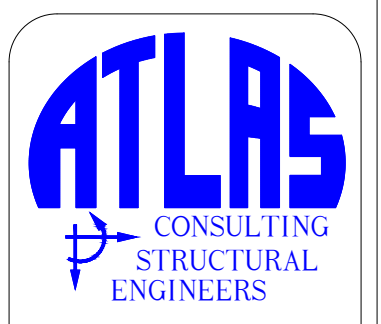
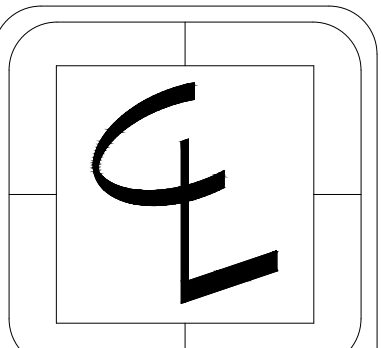


Imani Residence  
 2728 63rd Ave SE Mercer Island WA

CONTENTS  
 Foundation & Main Floor Details

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 DATE  
 01.06.25

S3.1

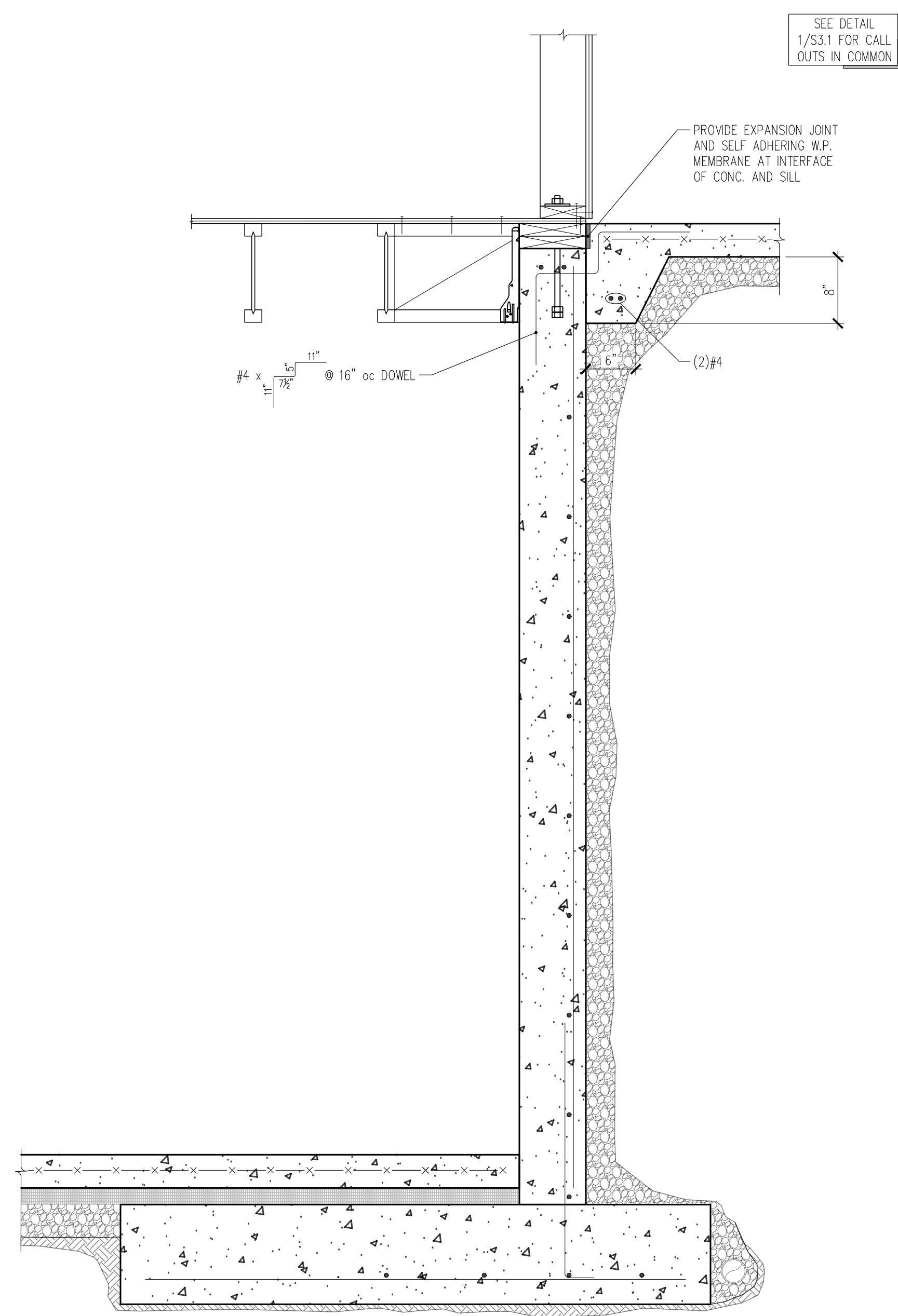


**Imani Residence**  
 2728 63rd Ave SE Mercer Island WA

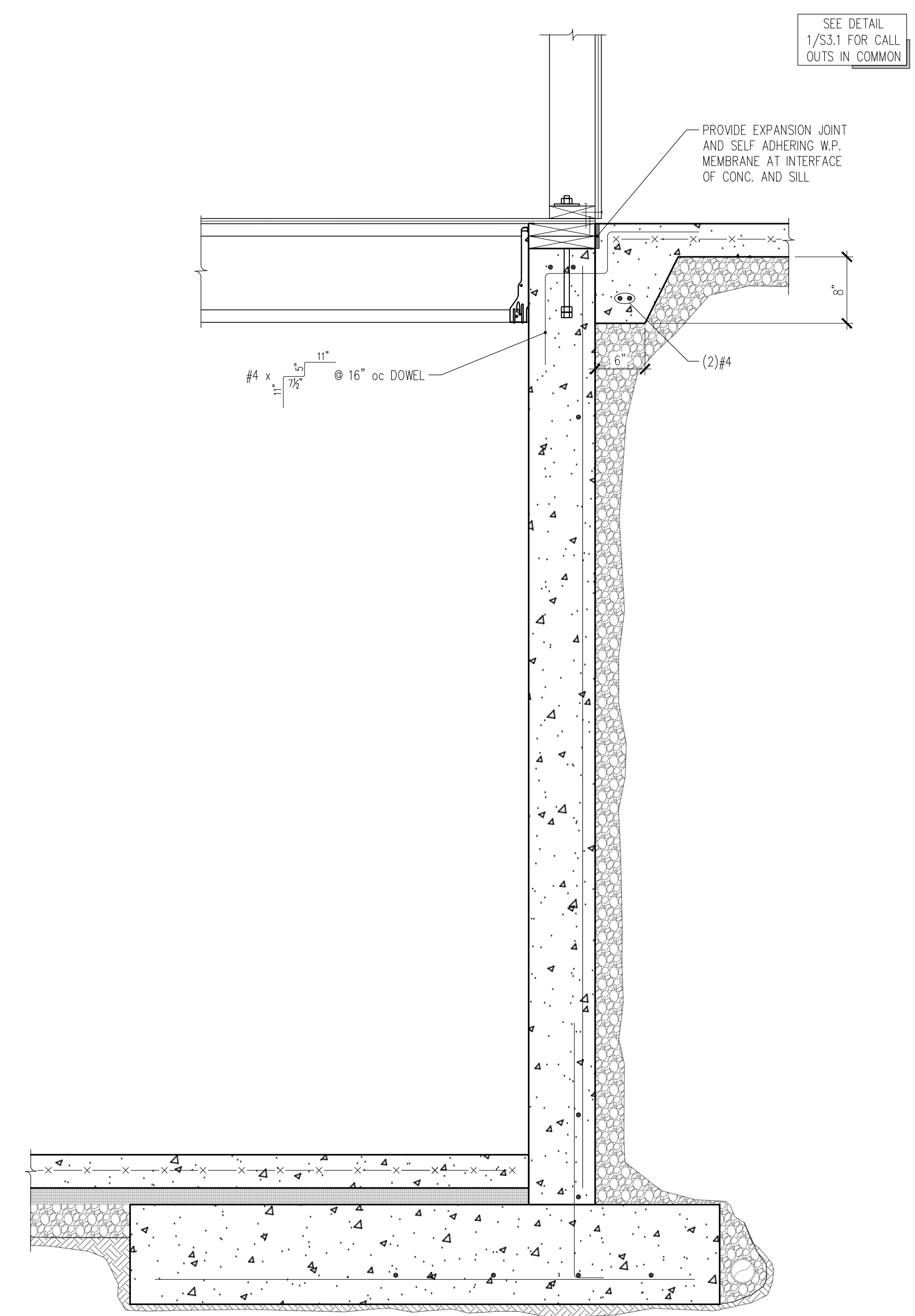
**CONTENTS**  
 Foundation &  
 Main Floor  
 Details

**DRAWN BY**  
 JDA  
**DATE**  
 01.06.25

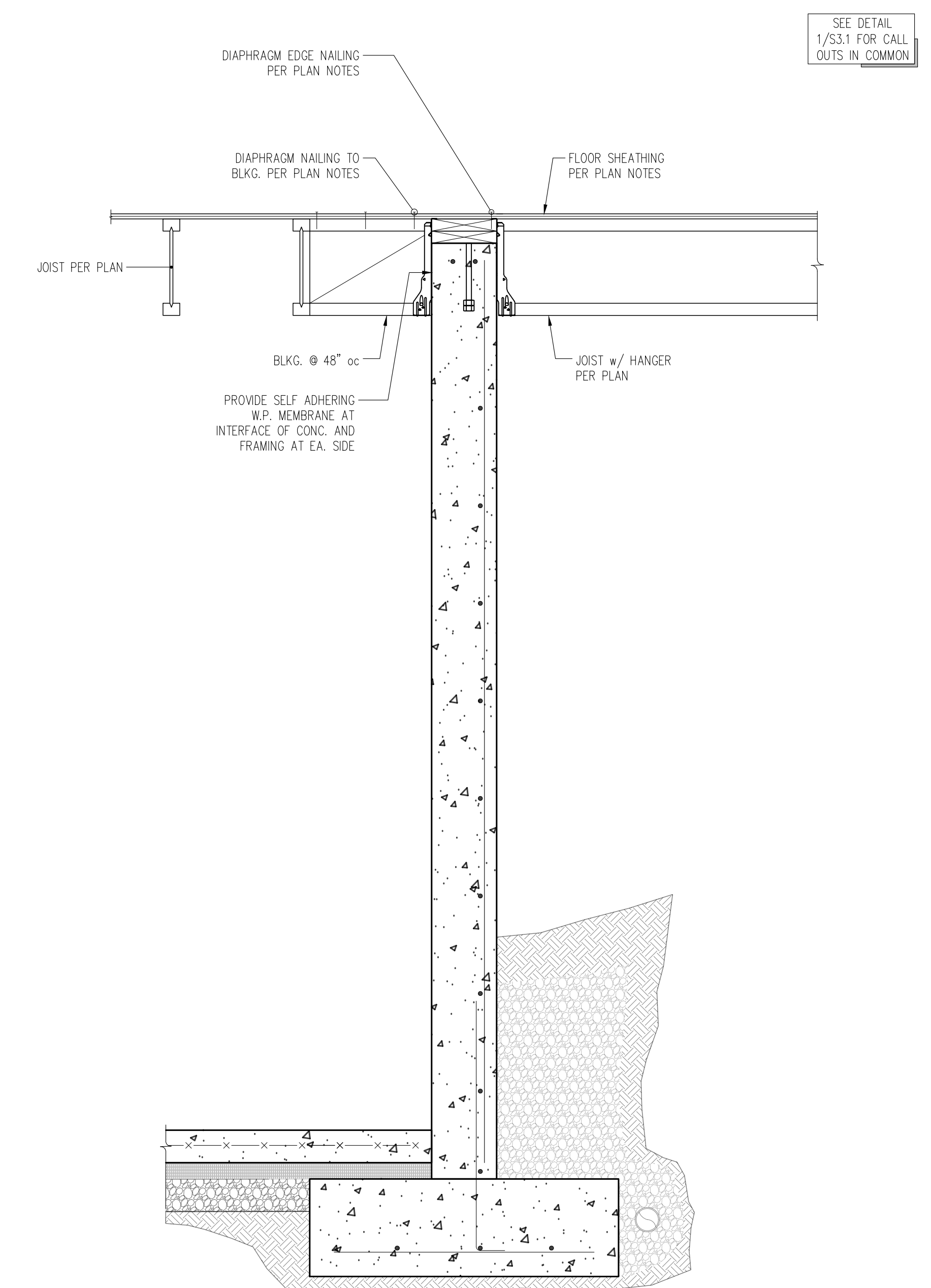
**S3.2**



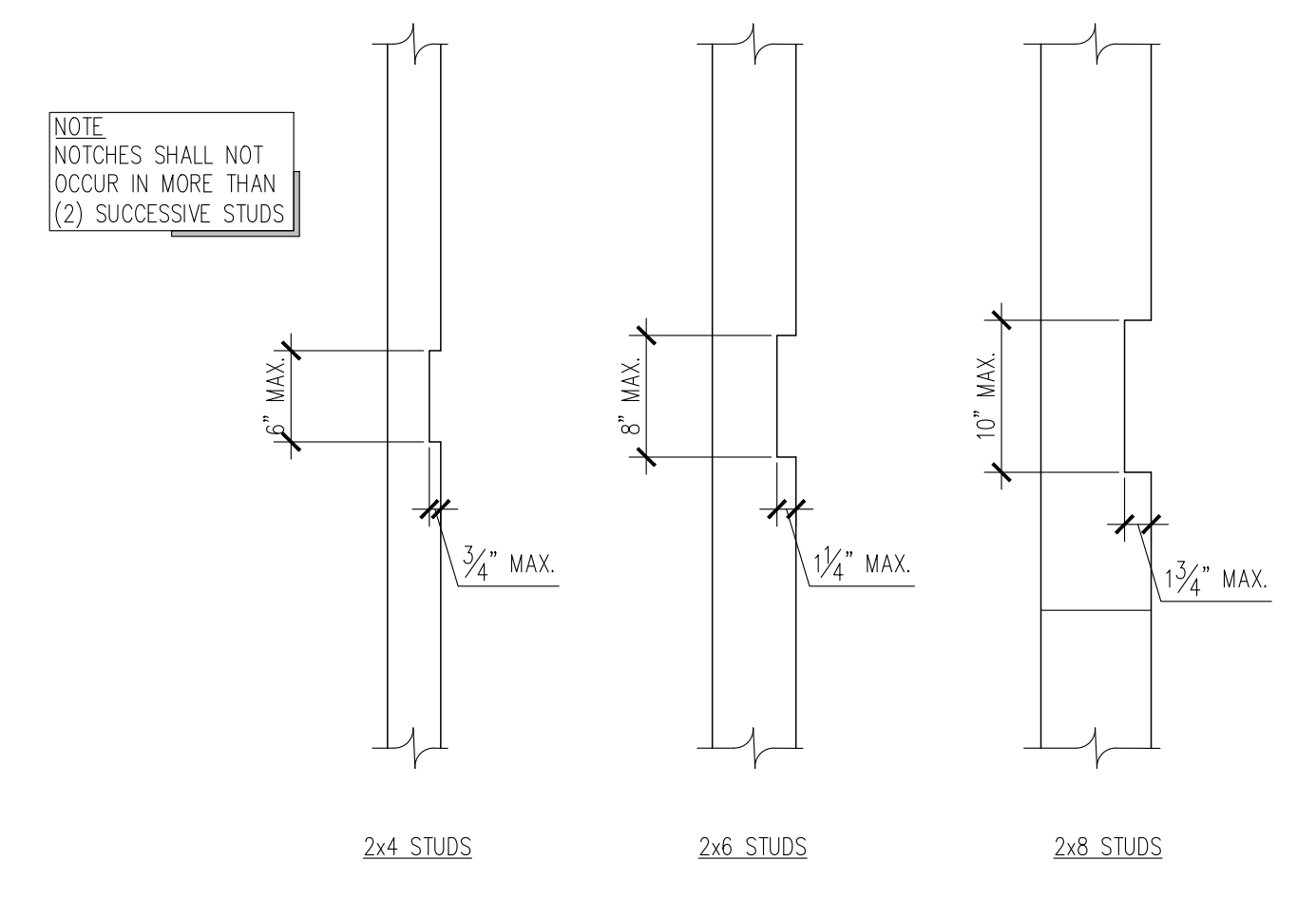
7 SECTION THROUGH FOUNDATION WALL AT PARALLEL JOISTS AND GARAGE SLAB ON GRADE  
 S3.2 1" = 1'-0"



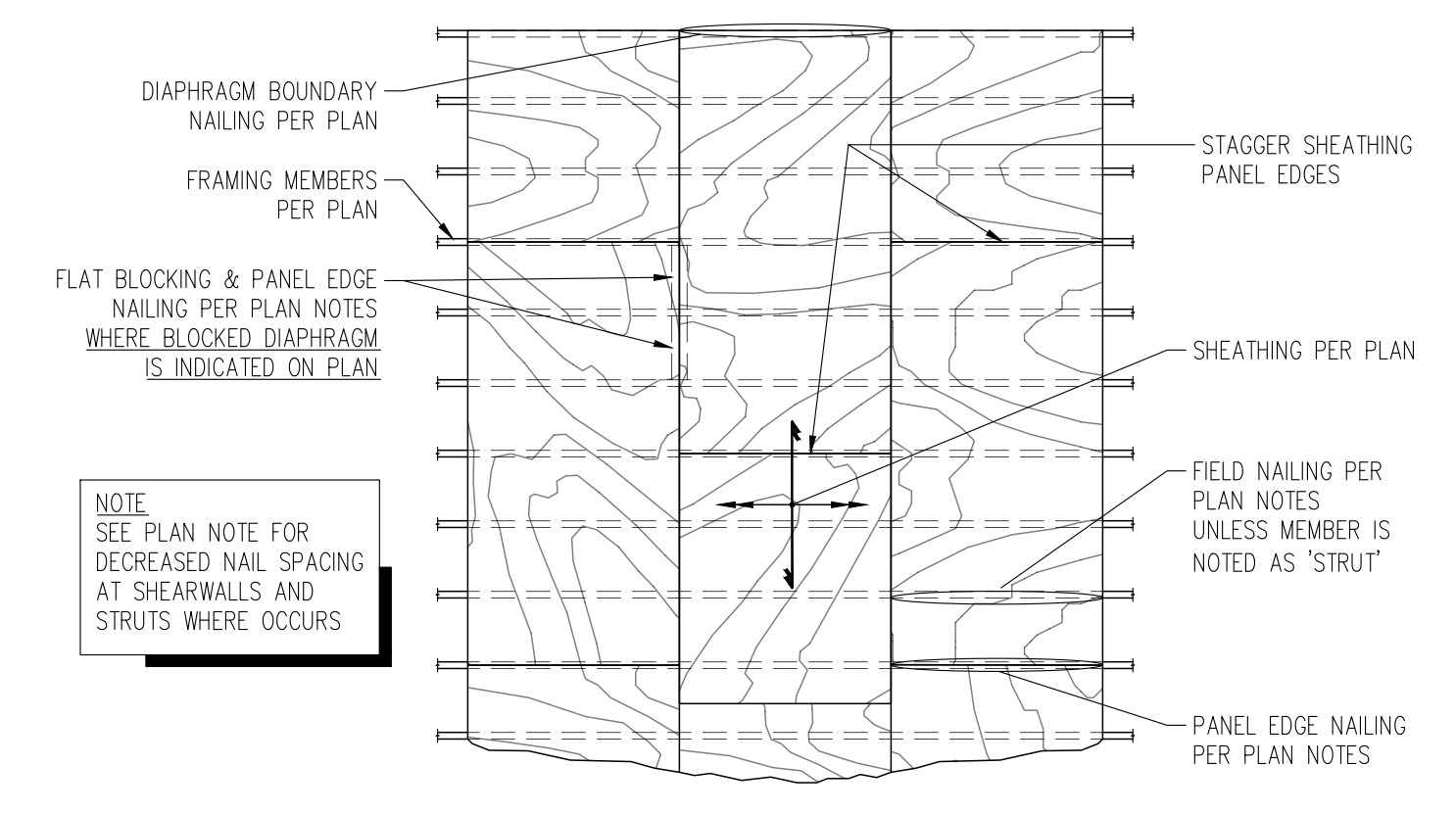
4 SECTION THROUGH FOUNDATION WALL AT PERPENDICULAR JOISTS AND GARAGE SLAB ON GRADE  
 S3.2 1" = 1'-0"



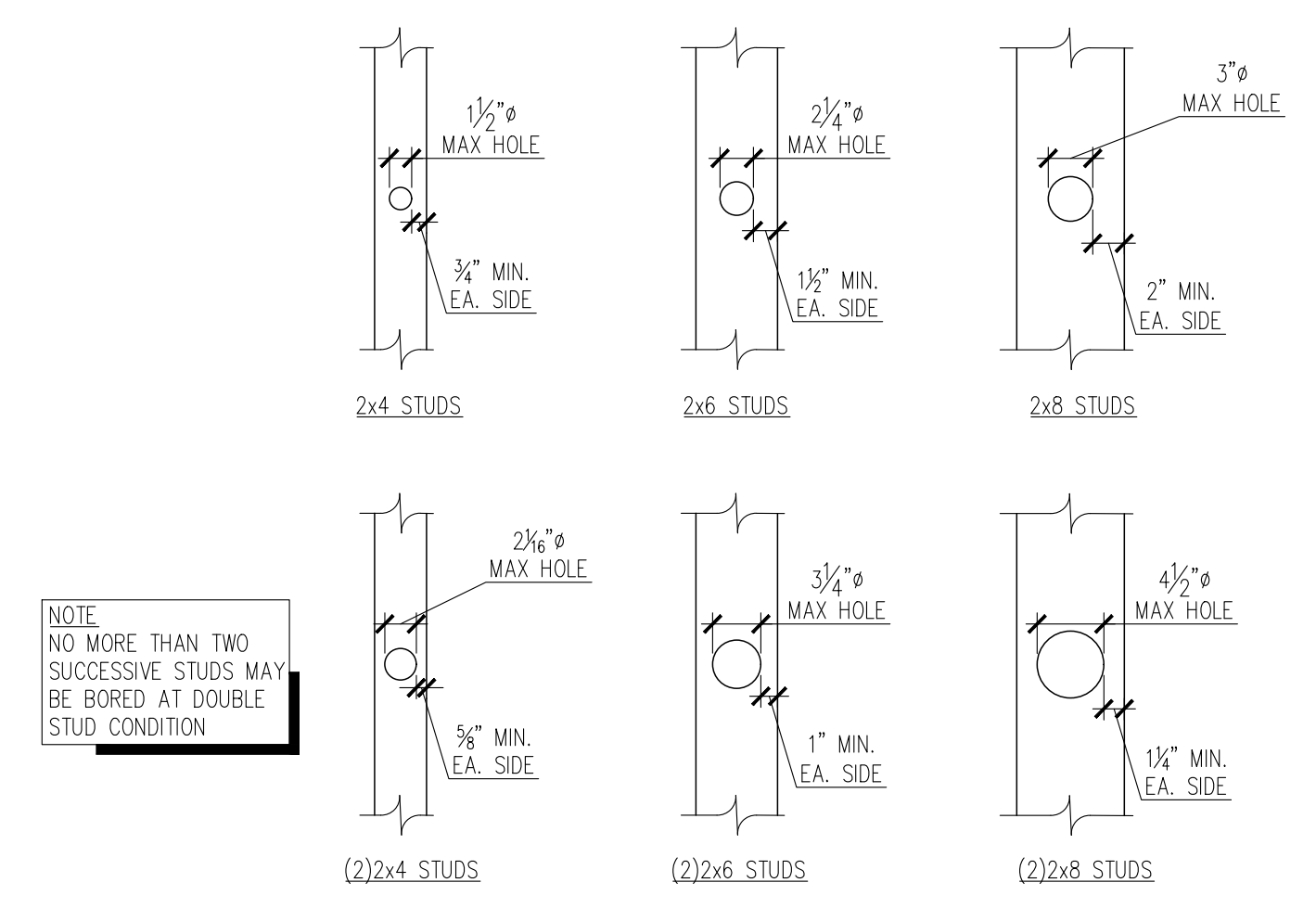
1 SECTION THROUGH FOUNDATION WALL AT SLAB ON GRADE BASEMENT AND CRAWLSPACE JOISTS  
 S3.2 N.T.S.



6 ALLOWABLE HOLES IN STUDWALL STUDS  
S6.1 NTS



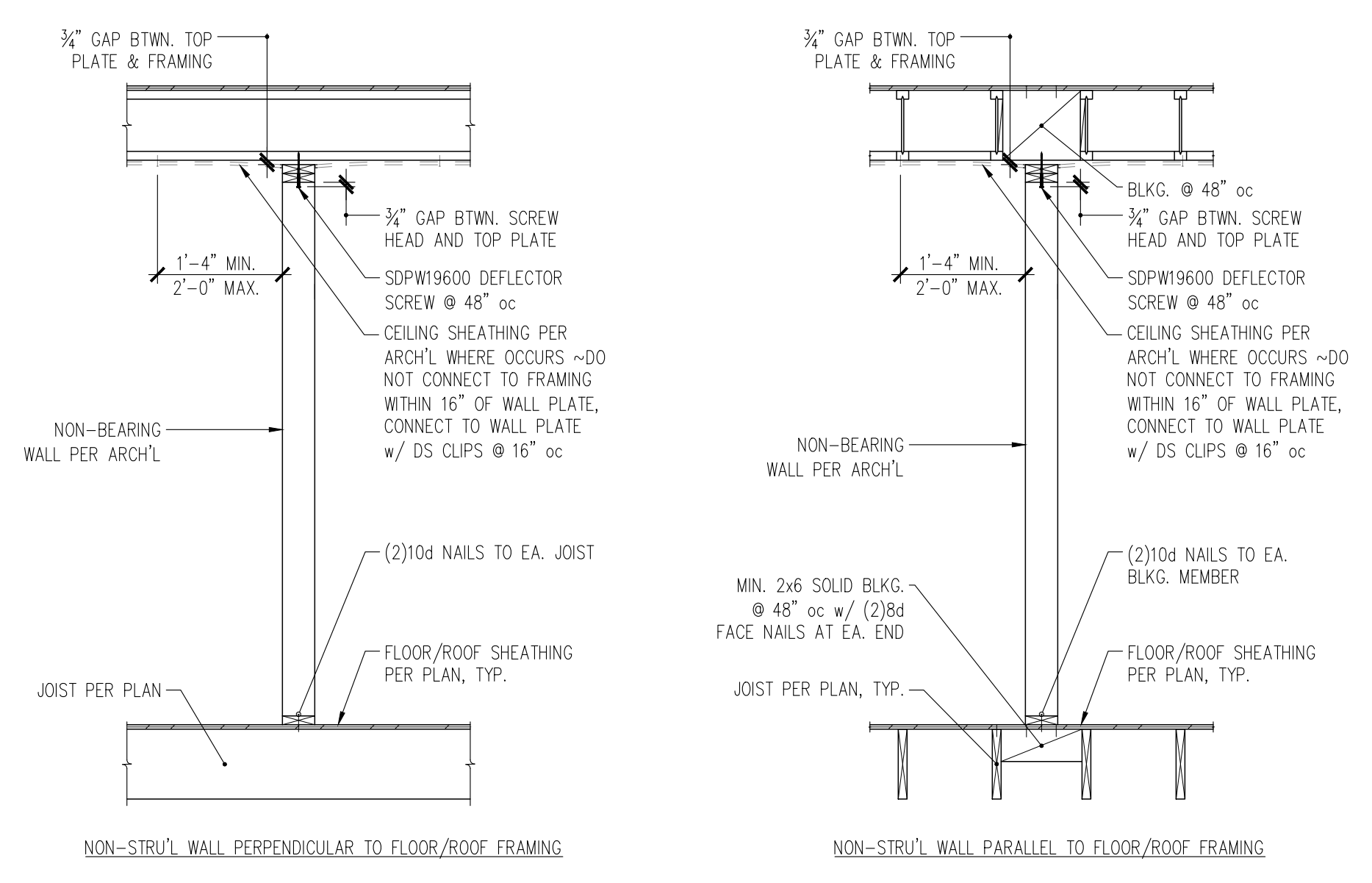
3 TYPICAL DIAPHRAGM NAILING  
S6.1 NTS



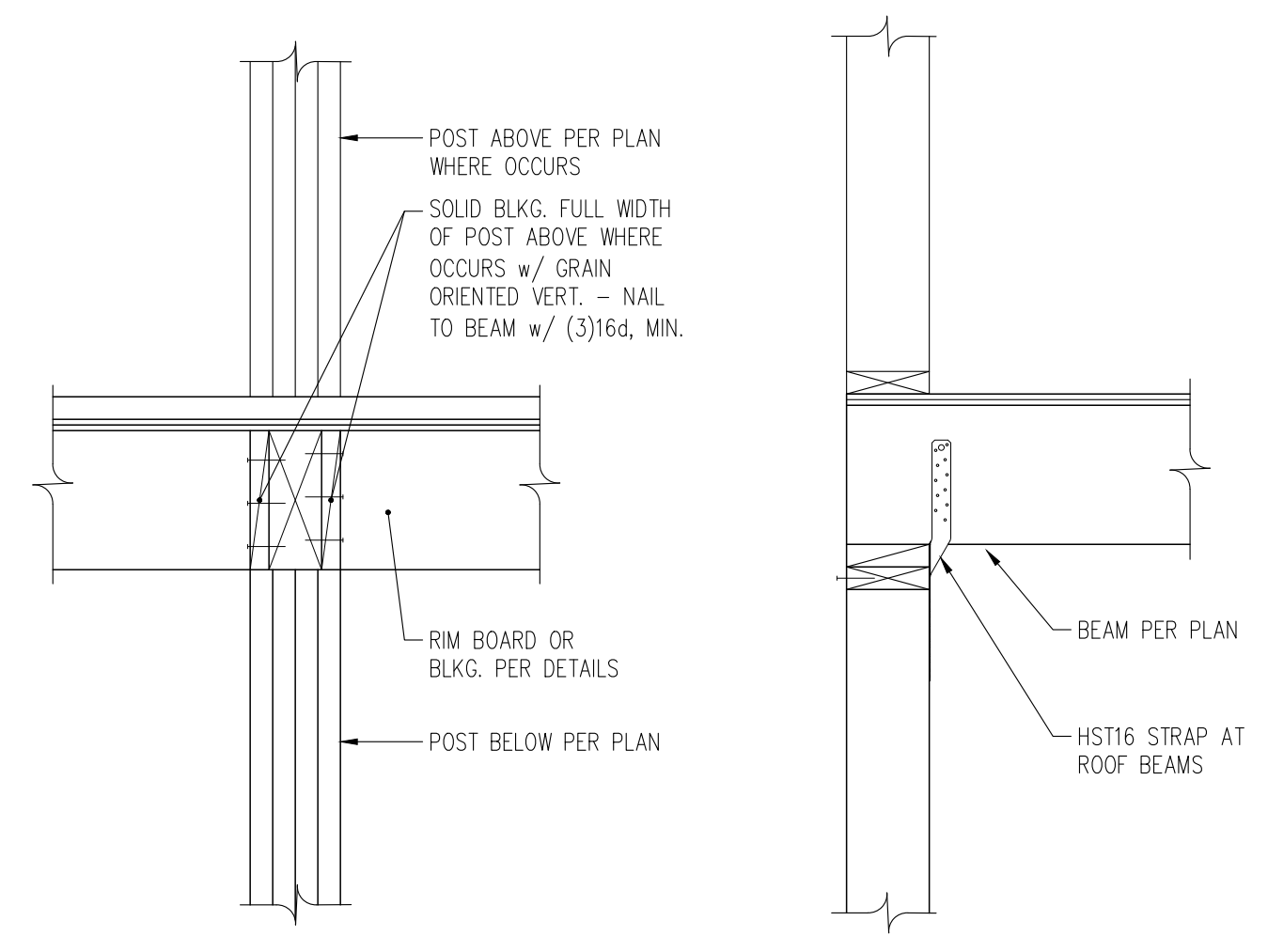
5 ALLOWABLE HOLES IN STUDWALL STUDS  
S6.1 NTS

	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

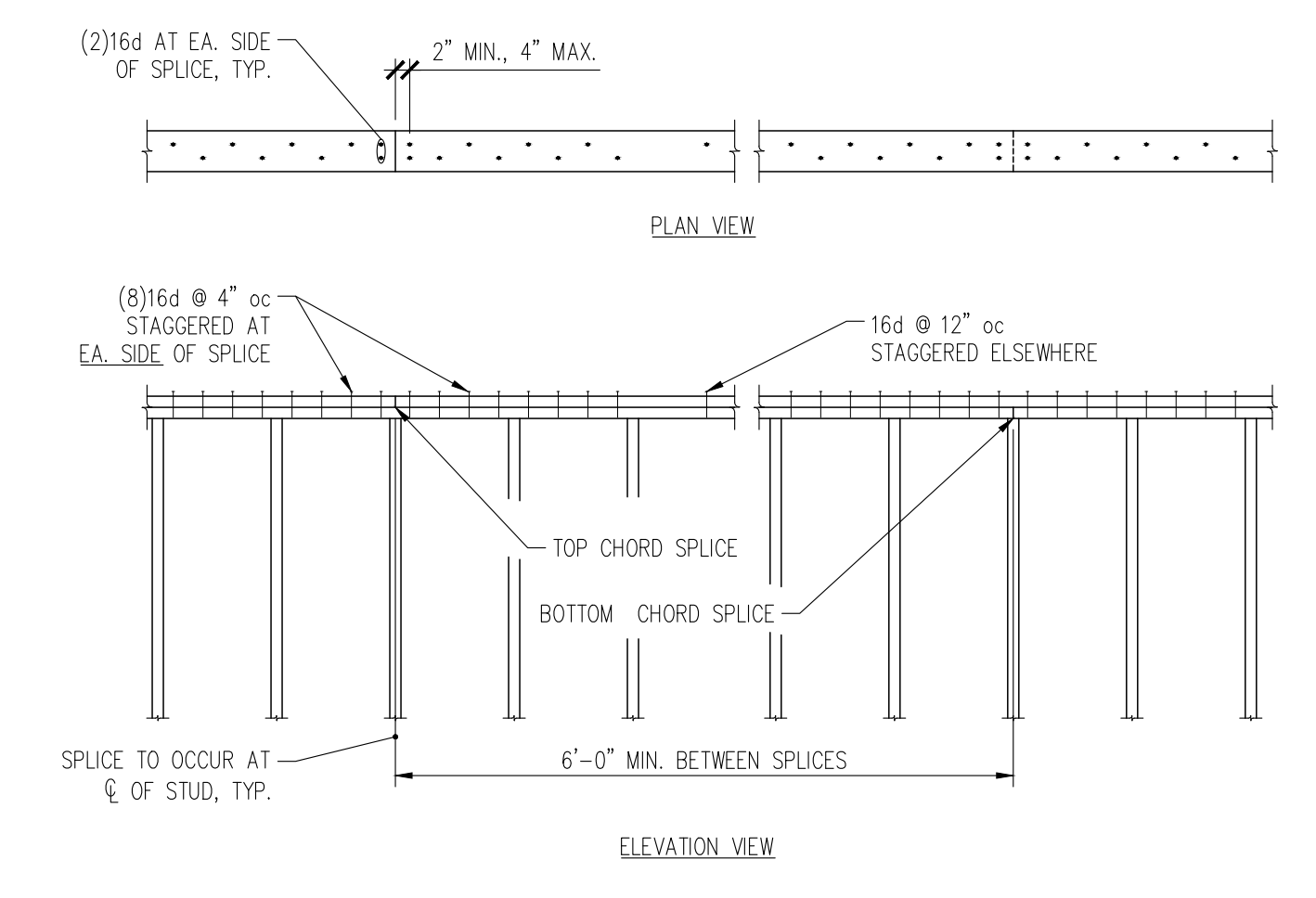
2 ALLOWABLE HOLES THROUGH TOP PLATES  
S6.1 NTS



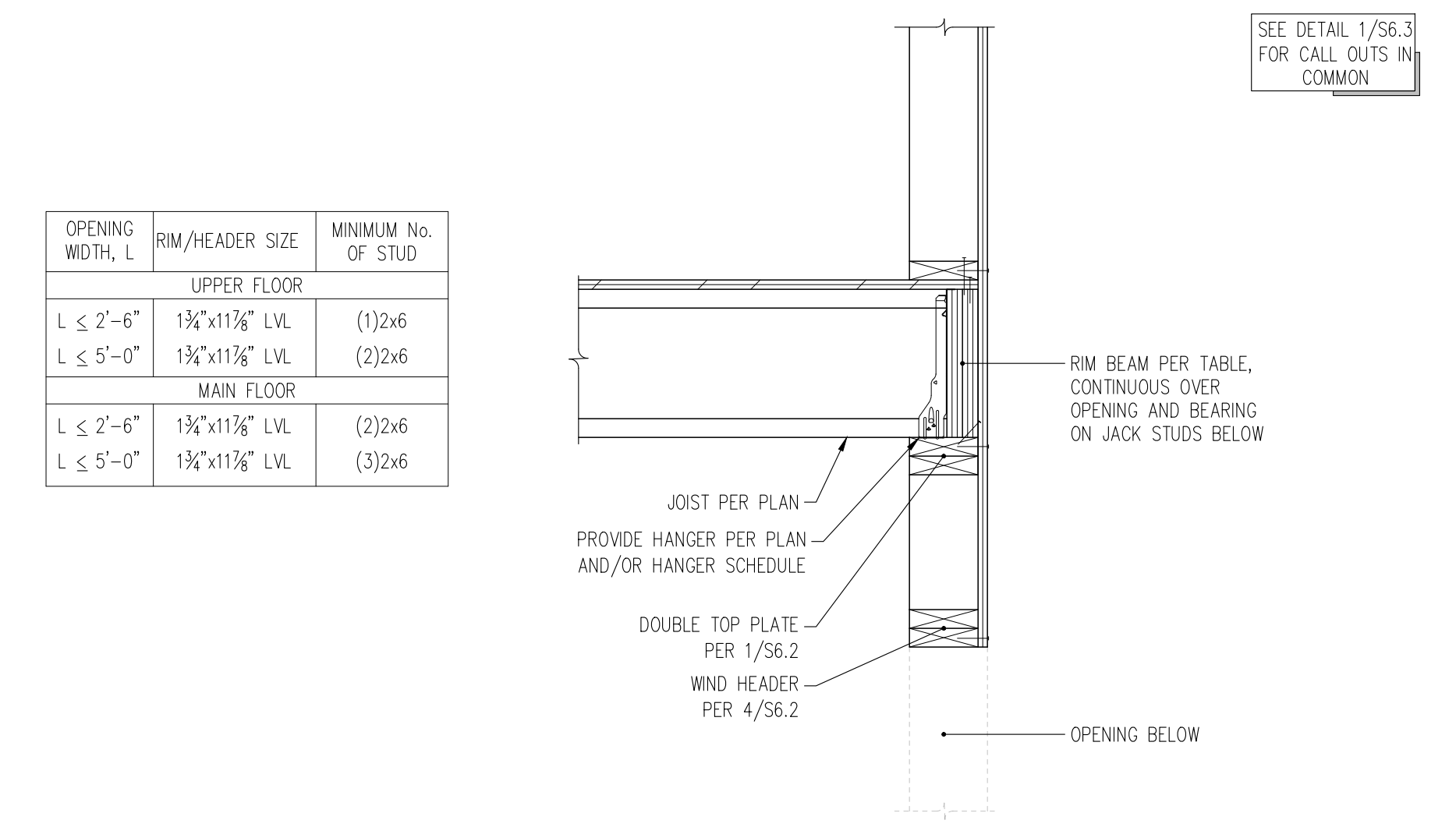
7 CONNECTION OF NON-STRUC'L PARTITION WALL TO STRUCTURE  
S6.1 NTS



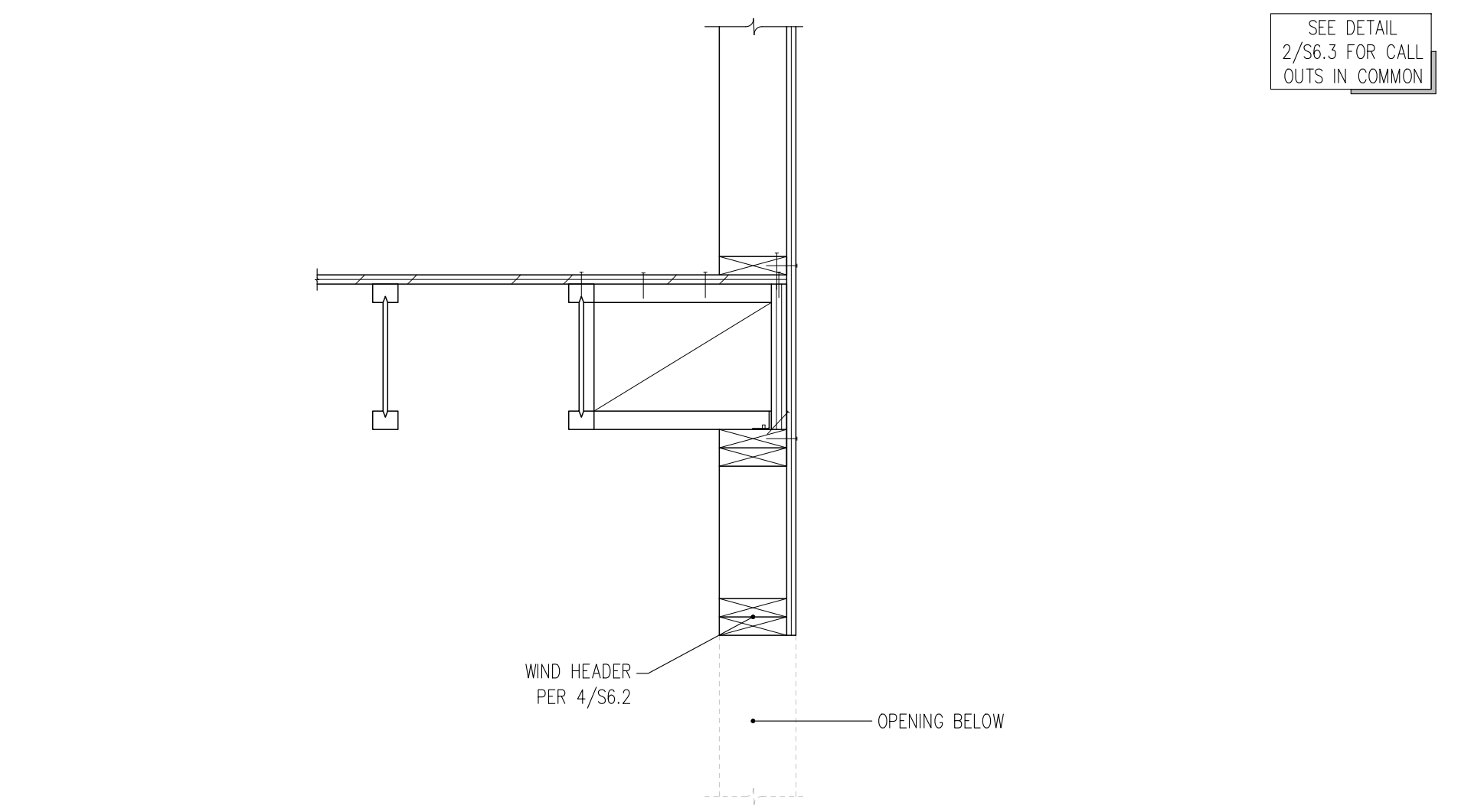
4 TYPICAL BEAM PERPENDICULAR TO WALL  
S6.1 NTS



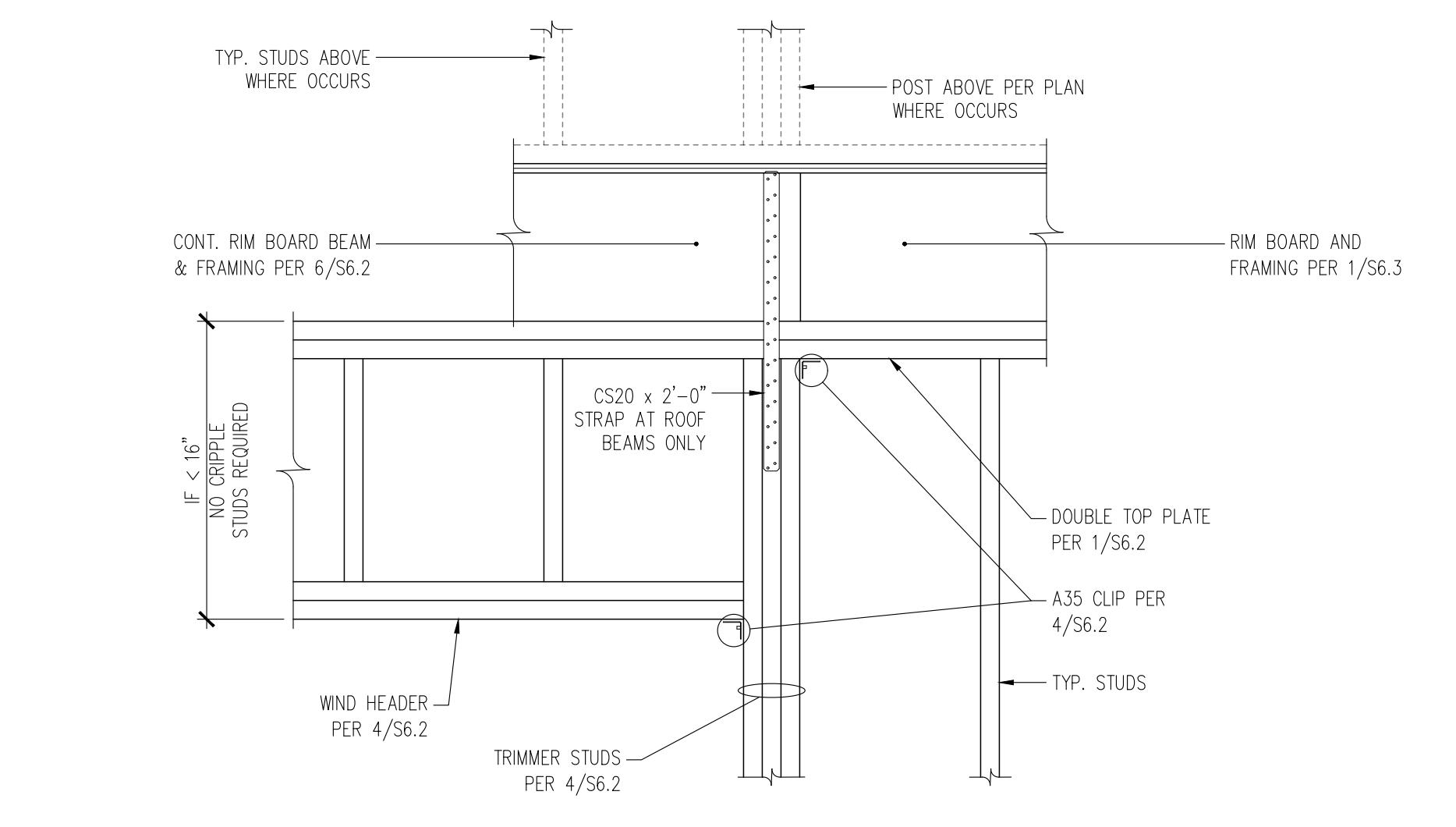
1 TOP PLATE SPLICE  
S6.1 NTS



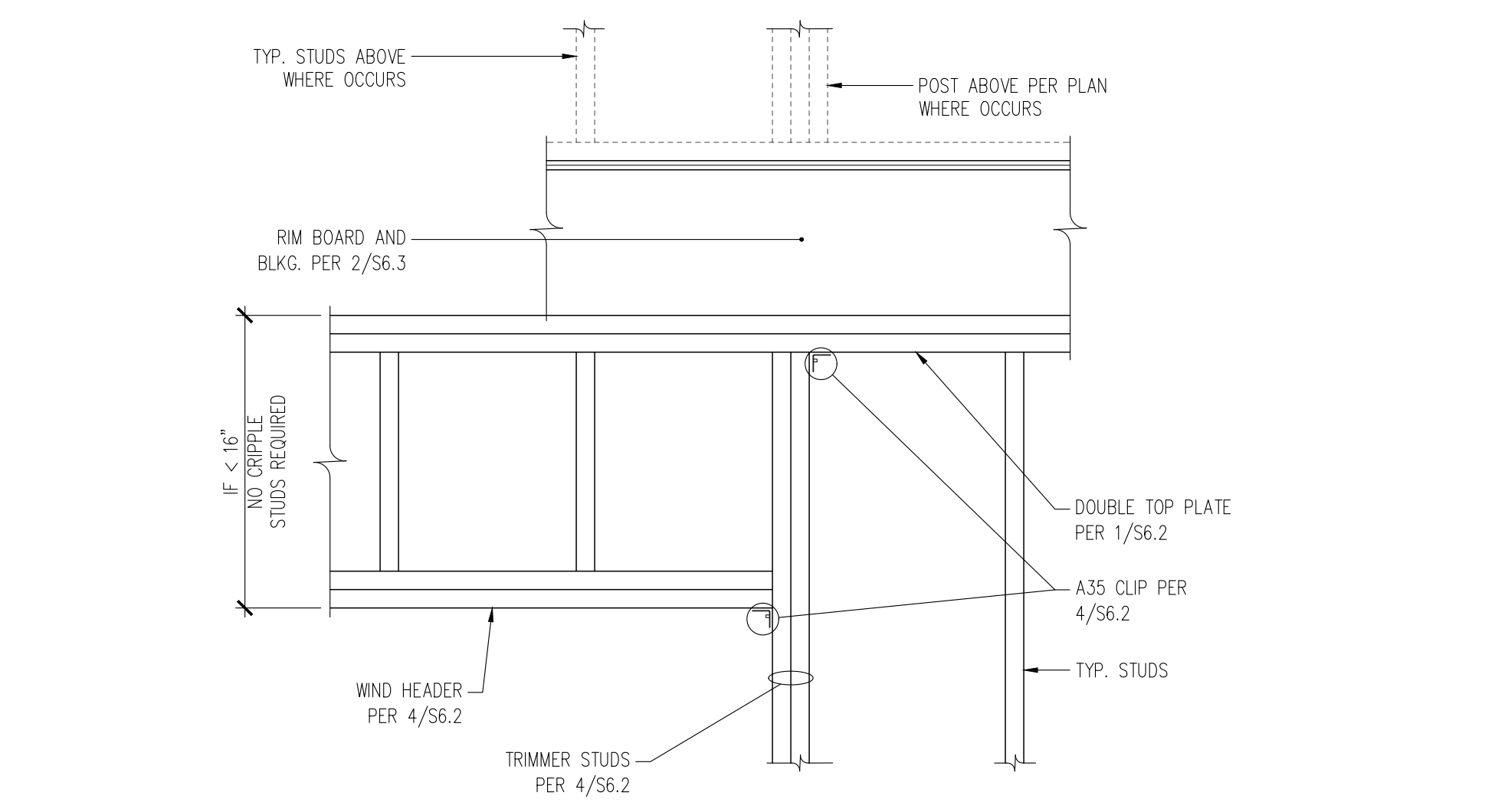
**6**  
S6.2 TYPICAL RIMBOARD HEADER & WIND HEADER IN LOAD BEARING EXTERIOR WALL  
NTS



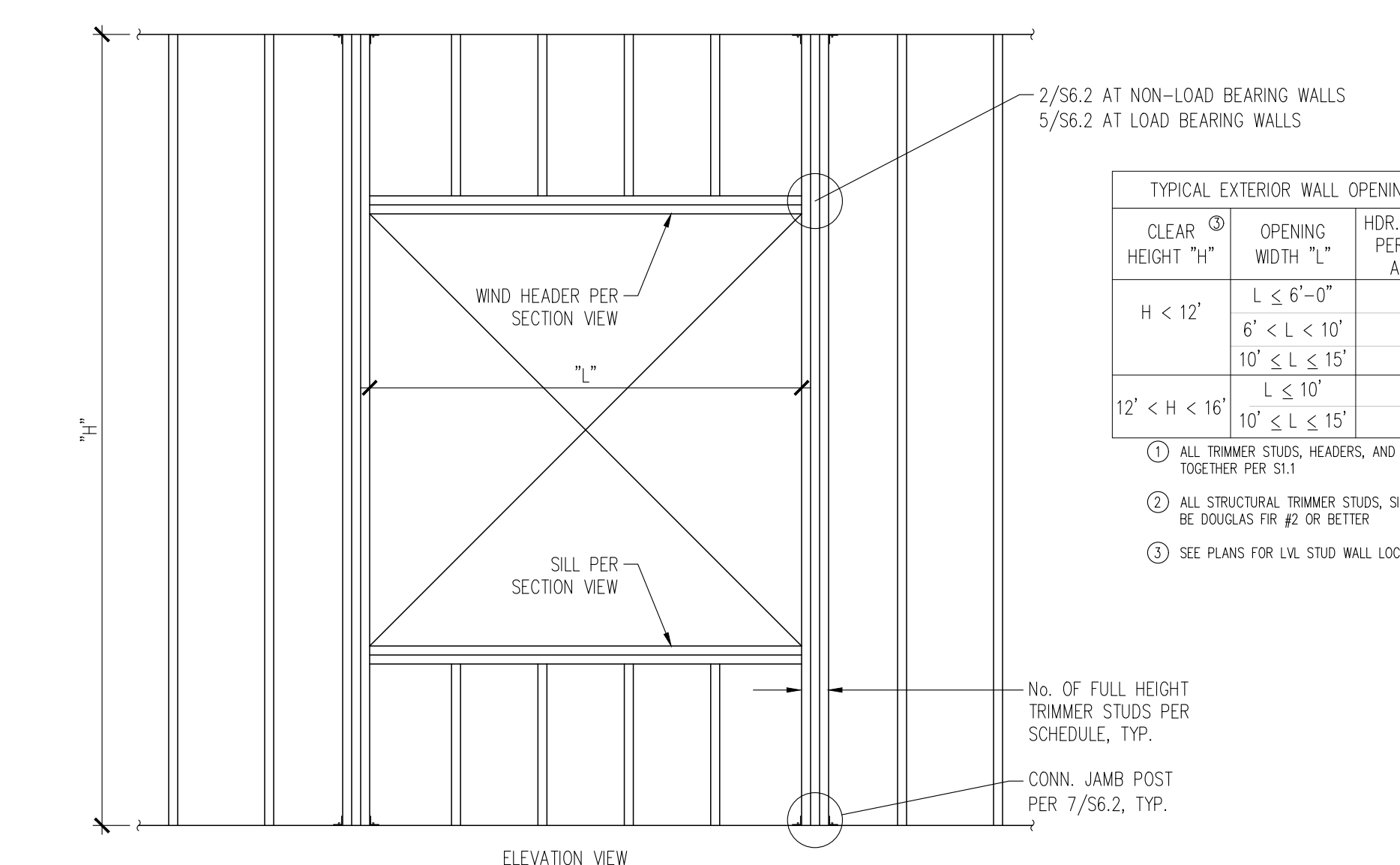
**3**  
S6.2 TYPICAL WIND HEADER IN NON-LOAD BEARING EXTERIOR WALL  
NTS



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



**2**  
S6.2 TYPICAL WIND HEADER DETAIL  
NTS

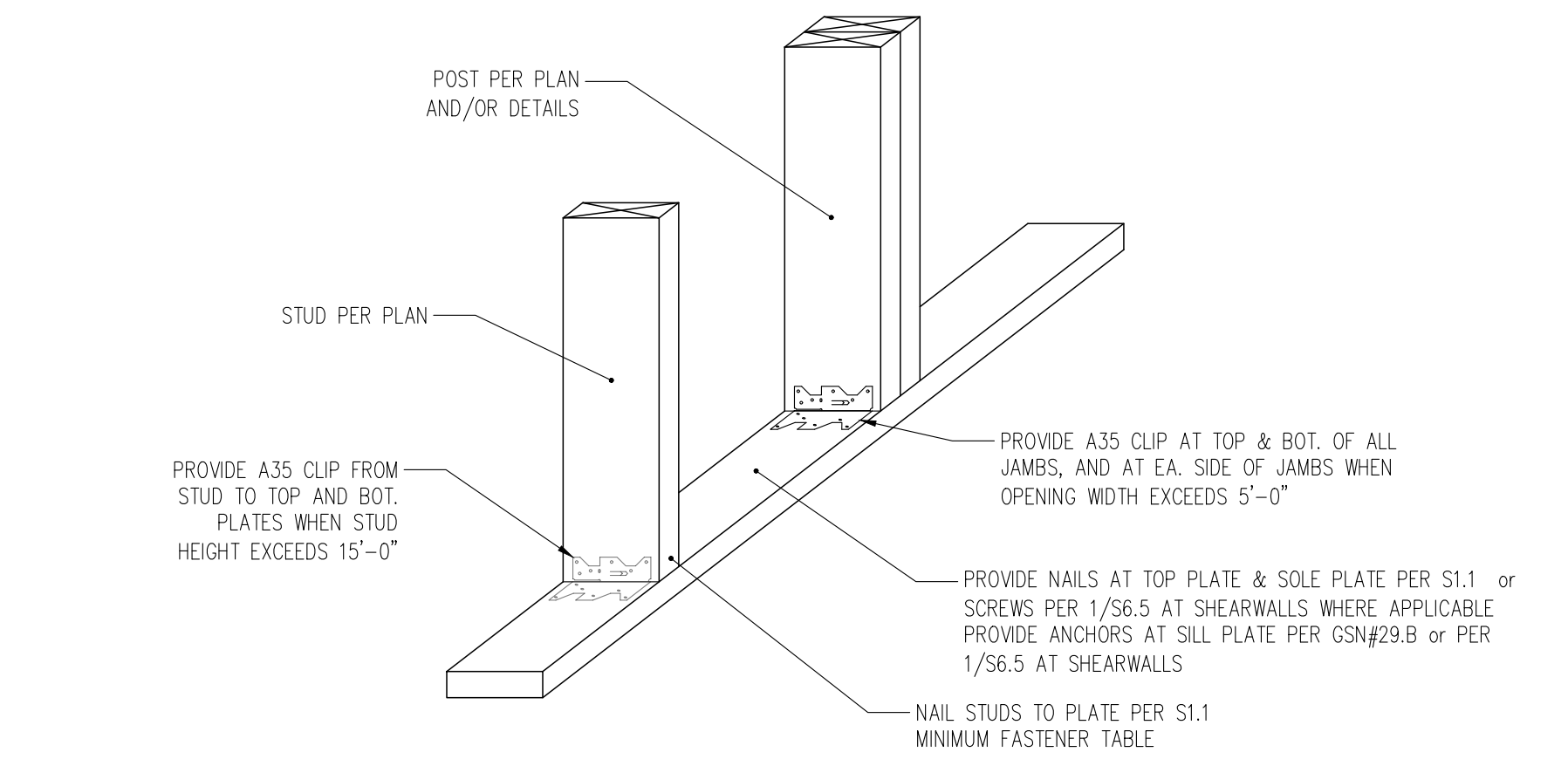
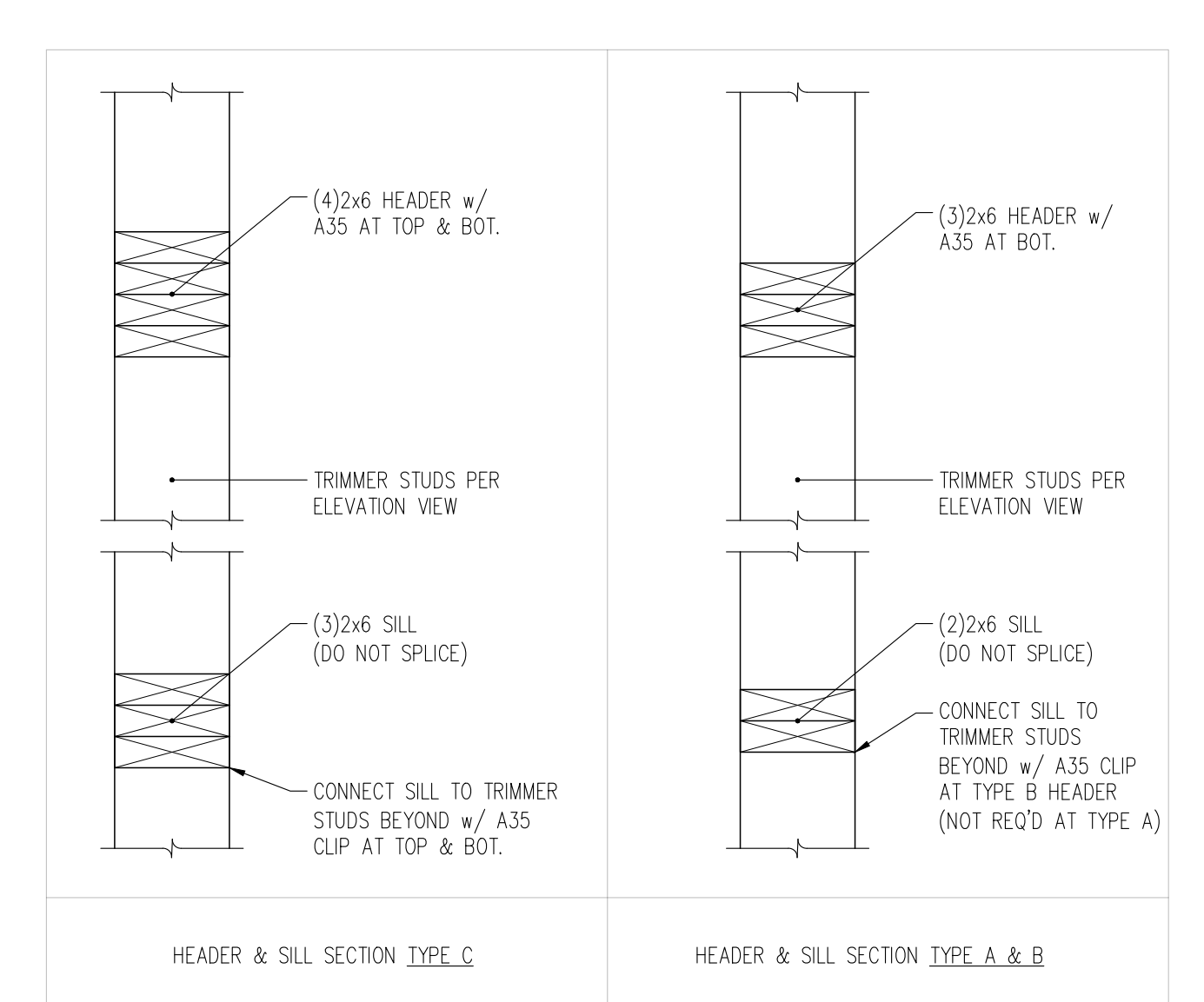


**4**  
S6.2 TYPICAL WIND HEADER  
NTS

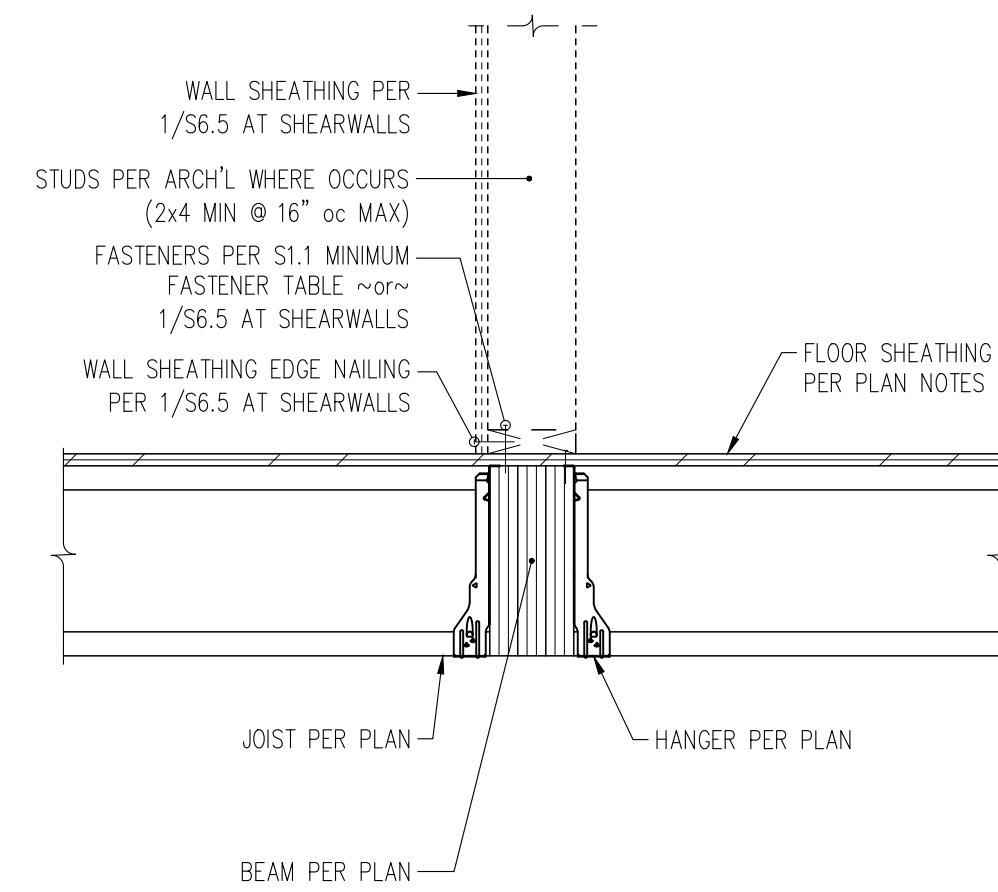
TYPICAL EXTERIOR WALL OPENING FRAMING SCHEDULE

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

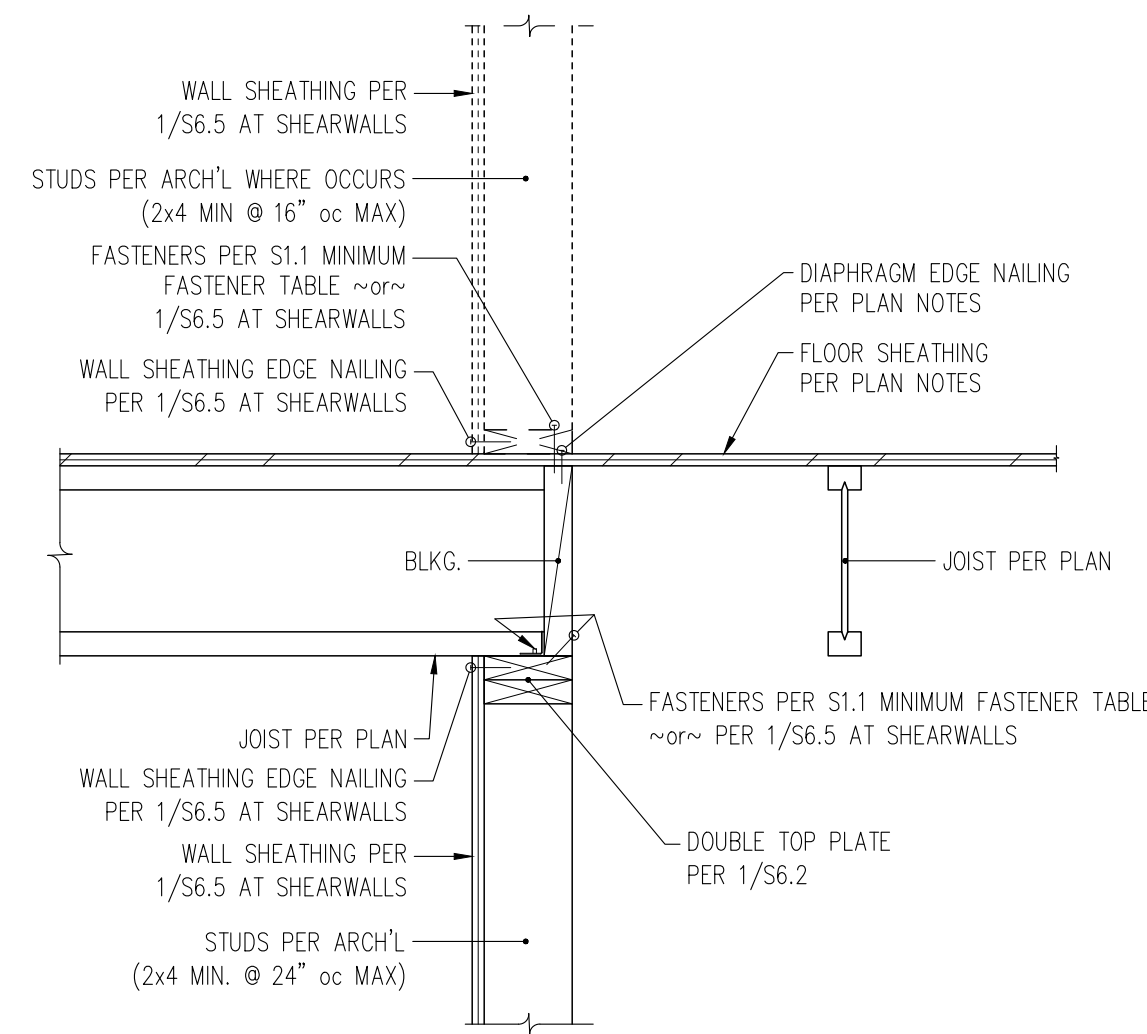
- ① ALL TRIMMER STUDS, HEADERS, AND SILLS SHALL BE NAILED TOGETHER PER S1.1
- ② ALL STRUCTURAL TRIMMER STUDS, SILLS, AND HEADERS SHALL BE DOUGLAS FIR #2 OR BETTER
- ③ SEE PLANS FOR LVL STUD WALL LOCATIONS, WHERE APPLICABLE



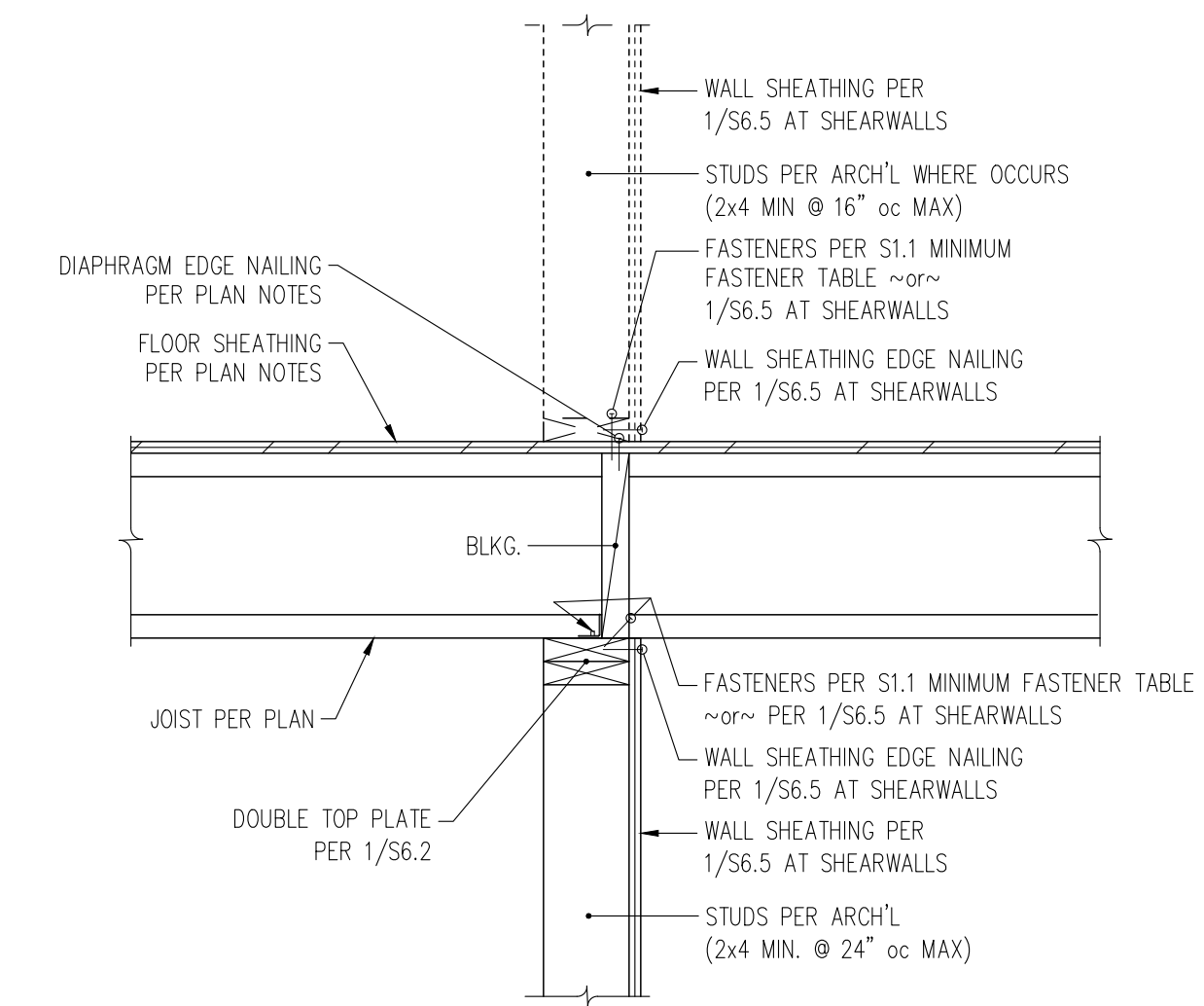
**7**  
S6.2 CONNECTION OF EXTERIOR STUDS AT TOP & BOTTOM PLATES  
NTS



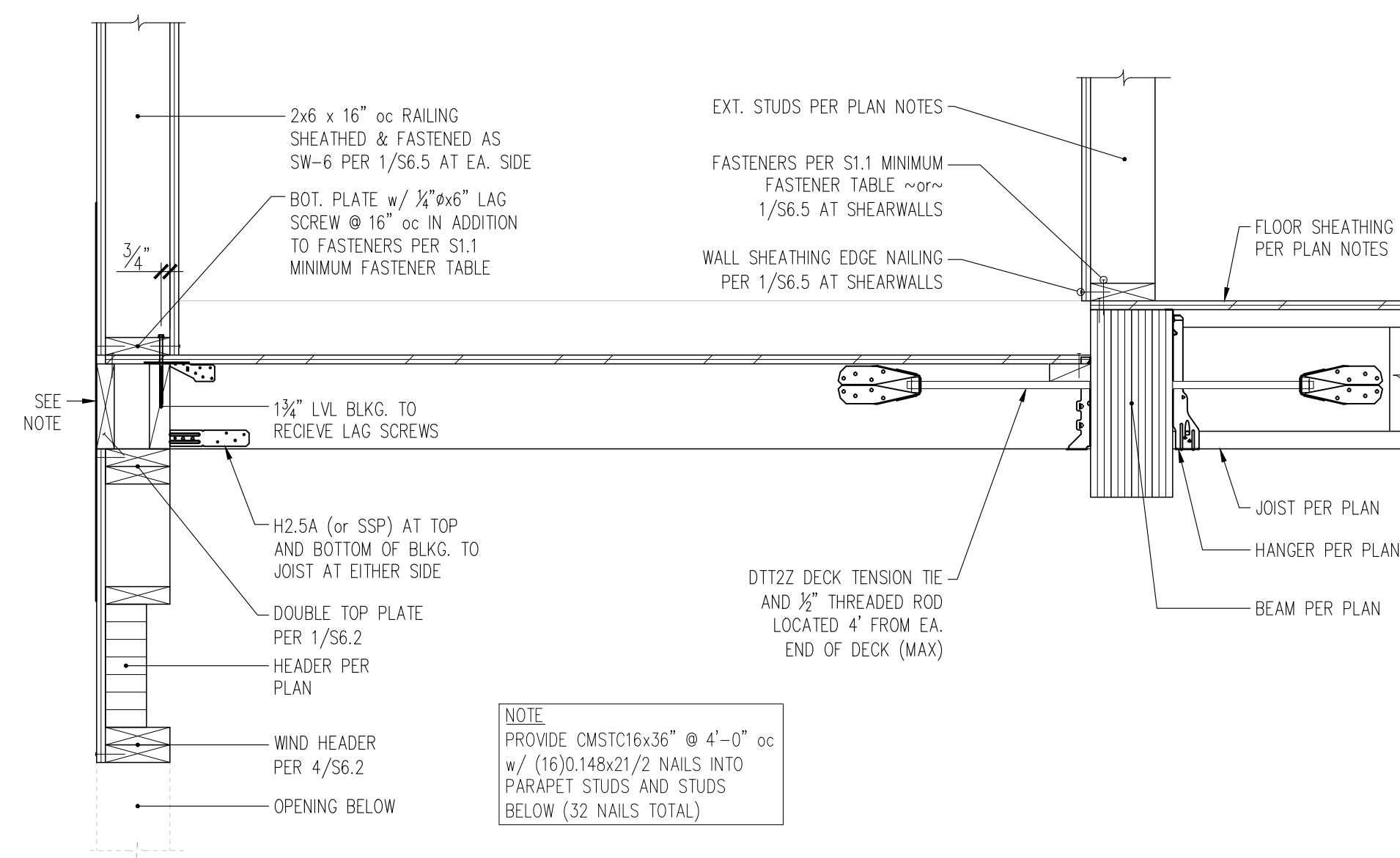
9 SECTION THROUGH INTERIOR BEAM AT PERPENDICULAR JOISTS  
S6.3 1" = 1'-0"



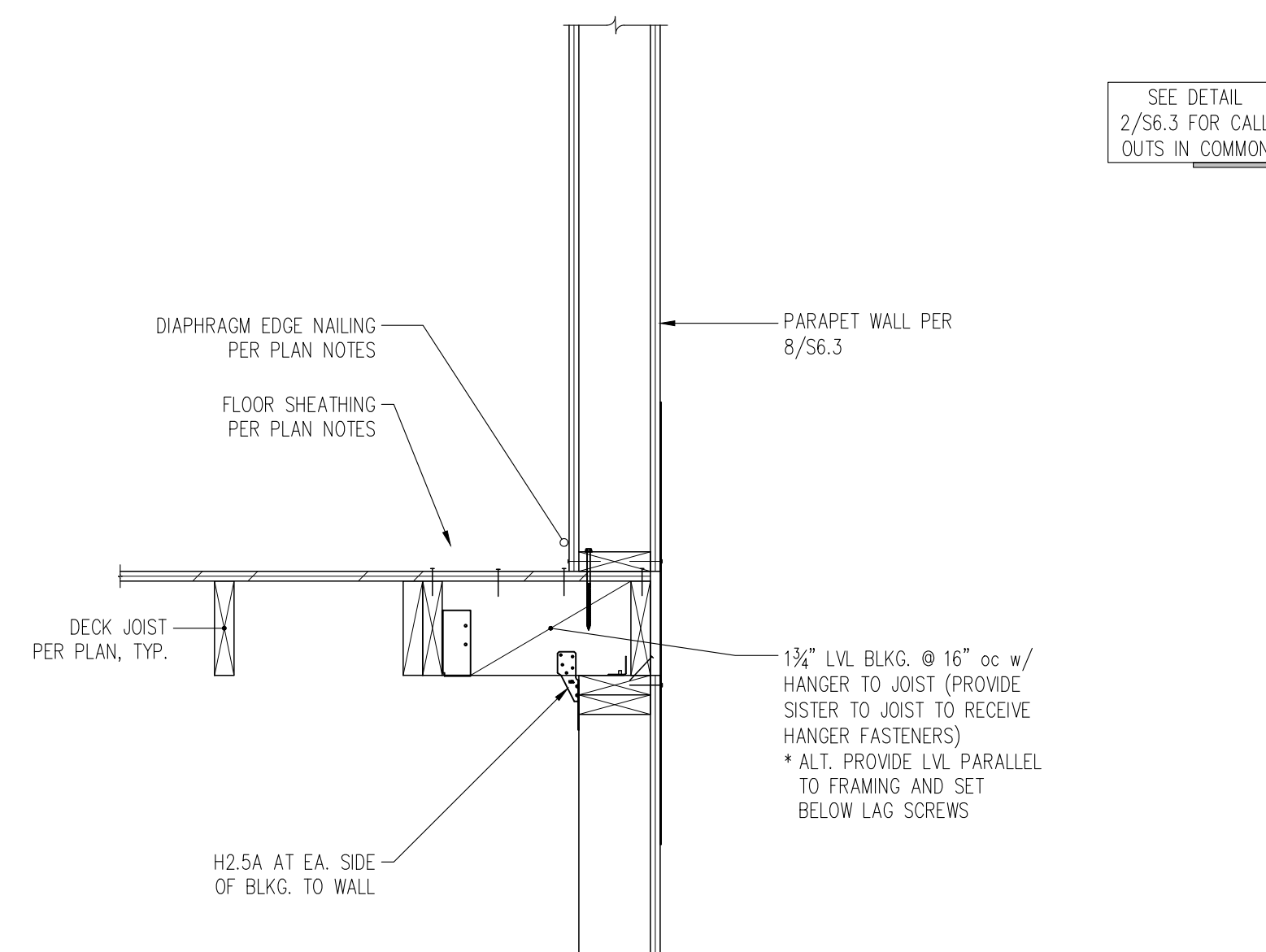
6 SECTION THROUGH INTERIOR WALL AT PERPENDICULAR AND PARALLEL JOISTS  
S6.3 1" = 1'-0"



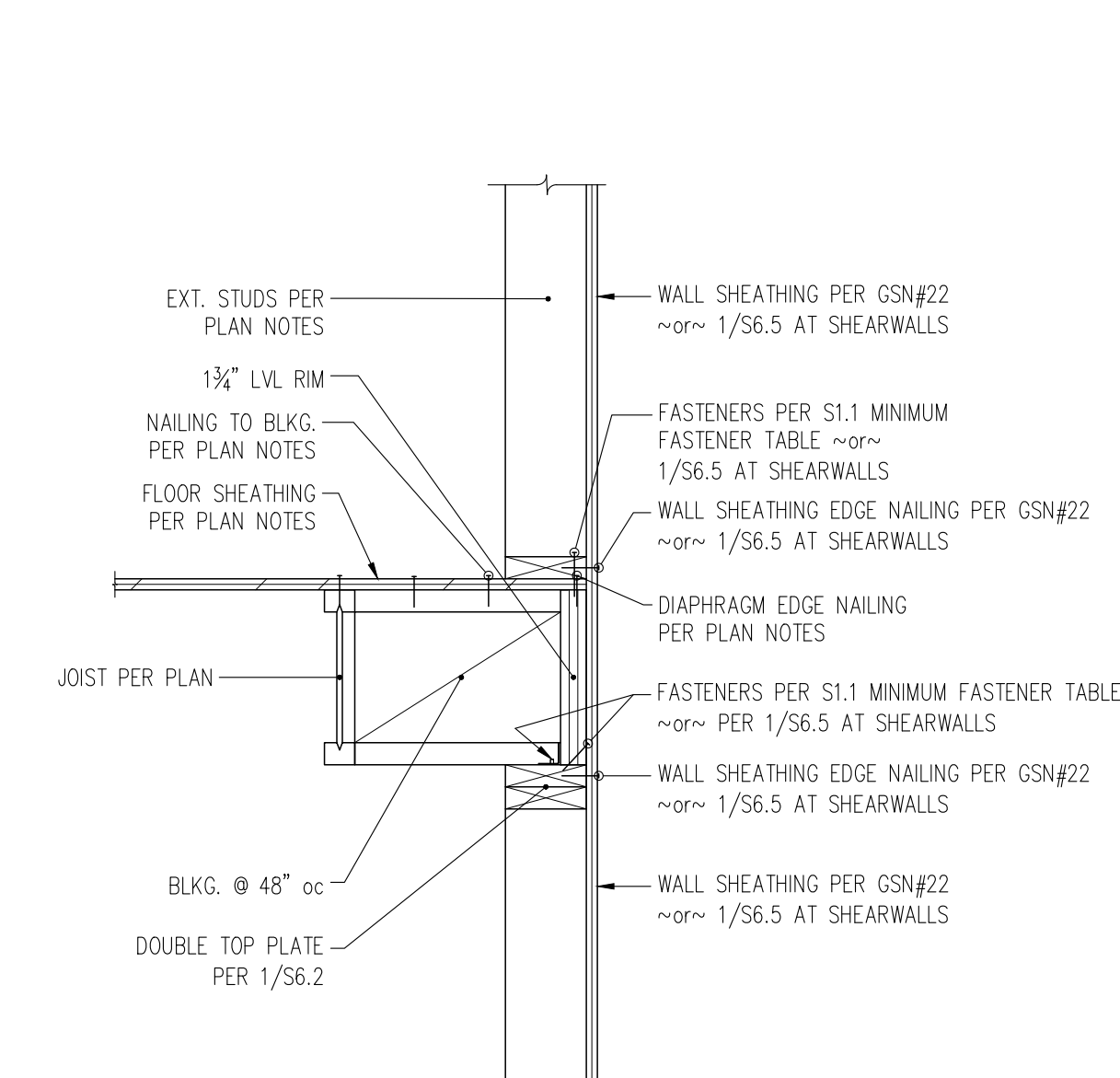
3 SECTION THROUGH INTERIOR STRUCTURAL WALL AT PERPENDICULAR JOISTS  
S6.3 1" = 1'-0"



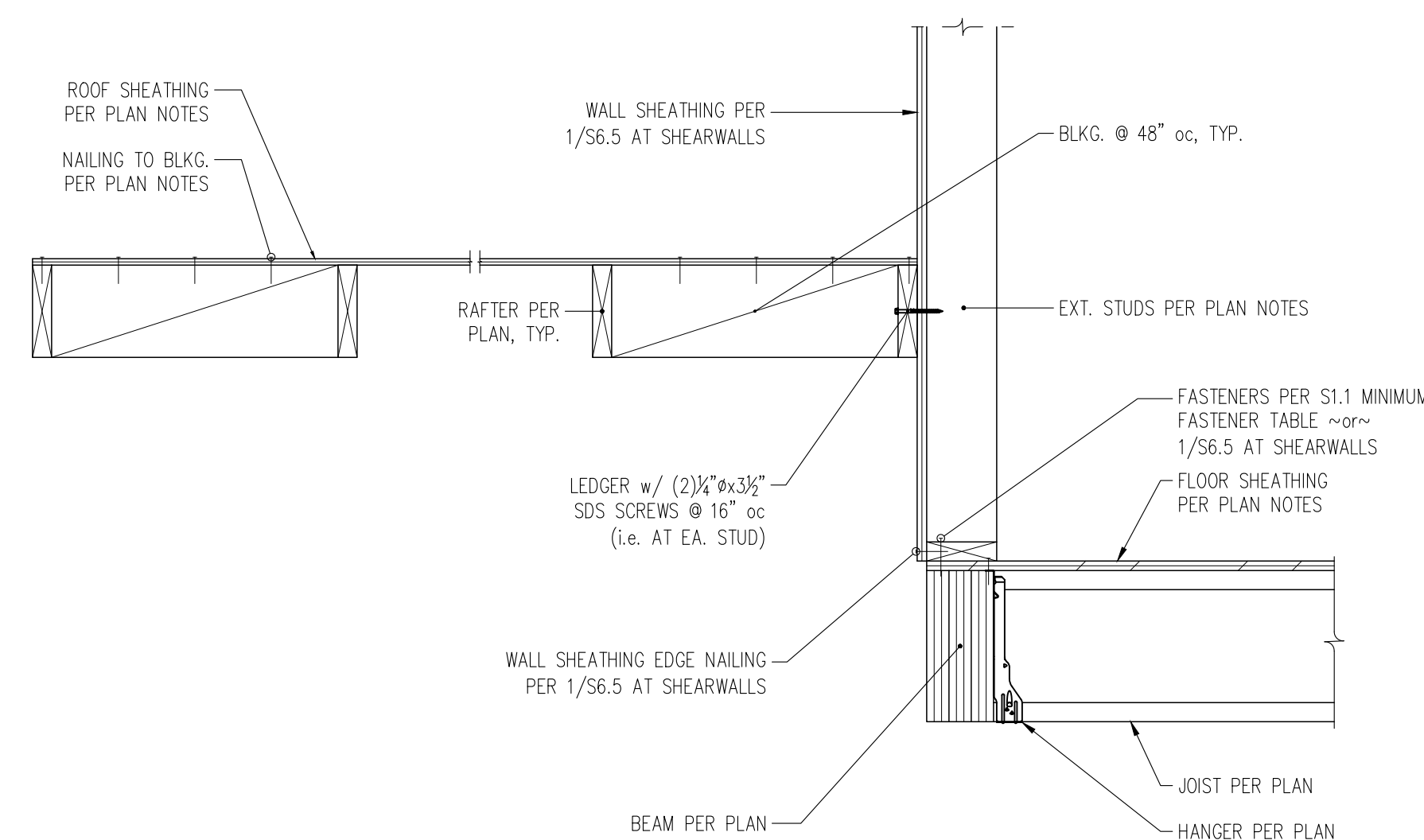
8 SECTION THROUGH UPPER FLOOR DECK AT PERPENDICULAR DECK AND FLOOR JOISTS  
S6.3 1" = 1'-0"



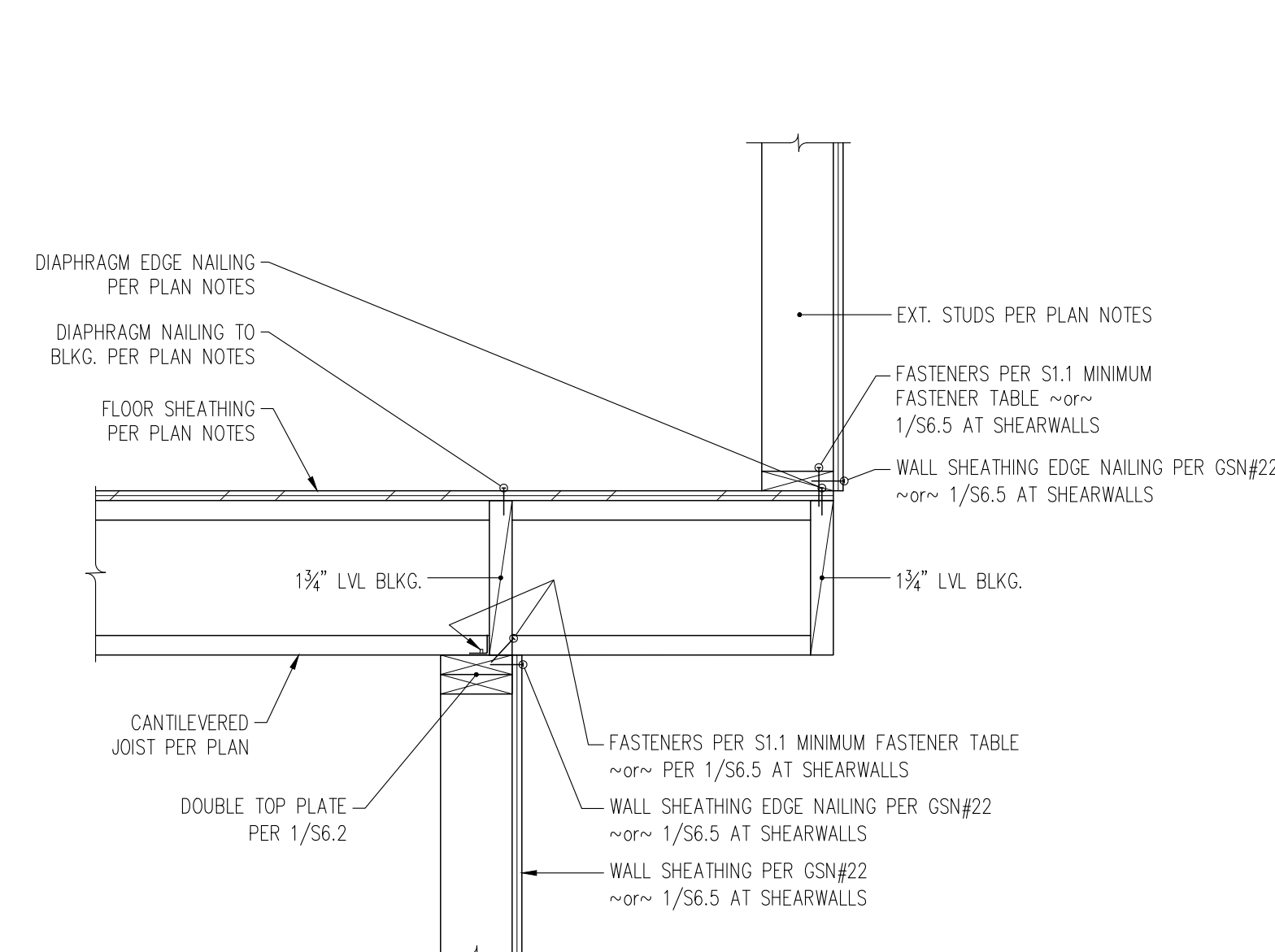
5 SECTION THROUGH EXTERIOR WALL AT PARALLEL JOISTS  
S6.3 1" = 1'-0"



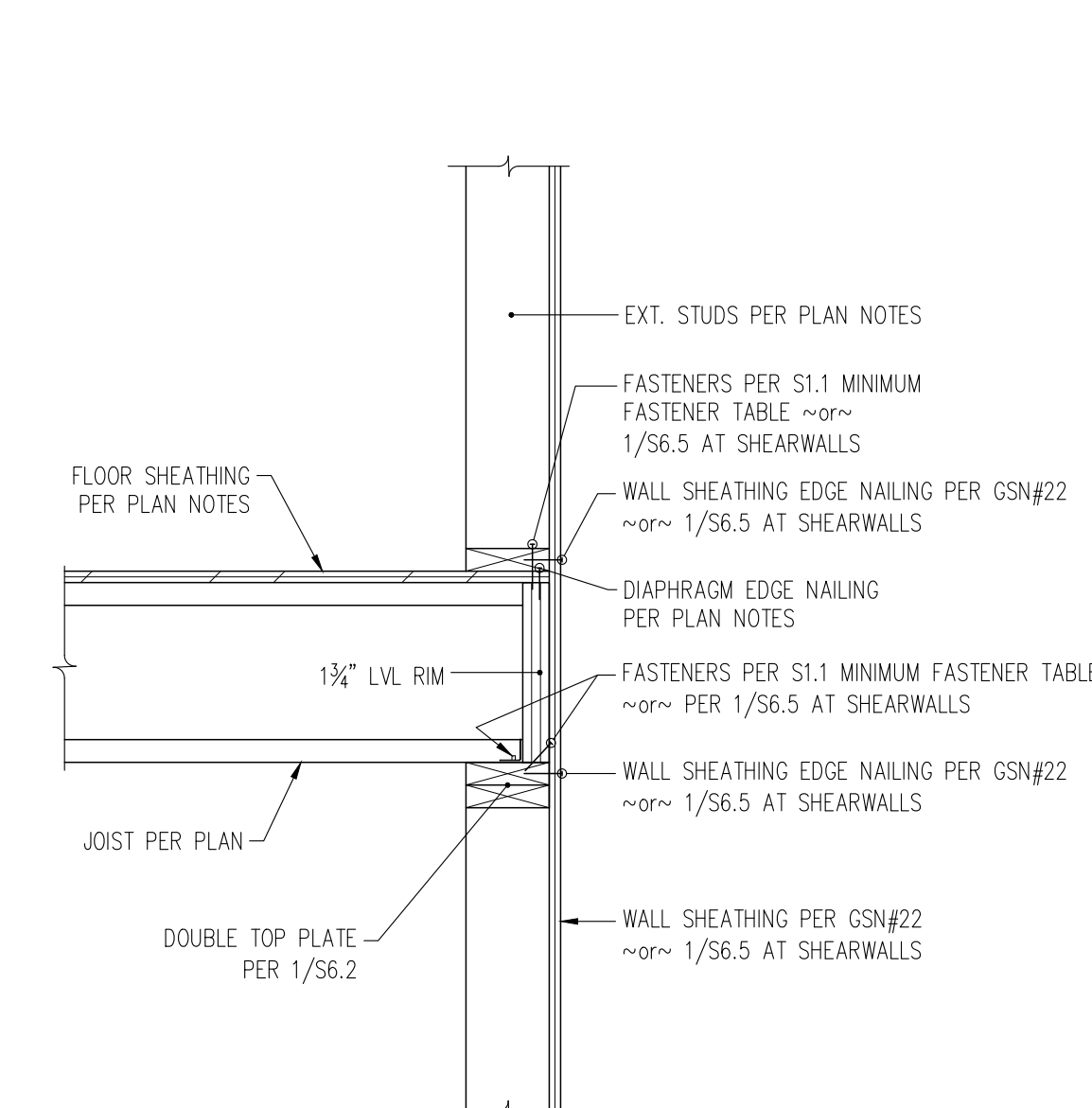
2 SECTION THROUGH EXTERIOR WALL AT PARALLEL JOISTS  
S6.3 1" = 1'-0"



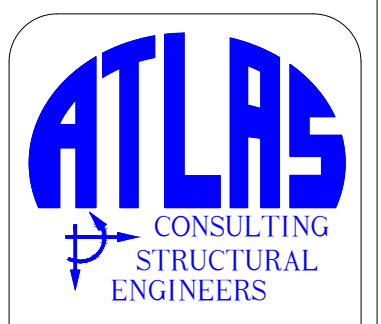
7 SECTION THROUGH ENTRY PORCH FRAMING  
S6.3 1" = 1'-0"



4 SECTION THROUGH OFFSET EXTERIOR WALLS AT PERPENDICULAR JOIST  
S6.3 1" = 1'-0"



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

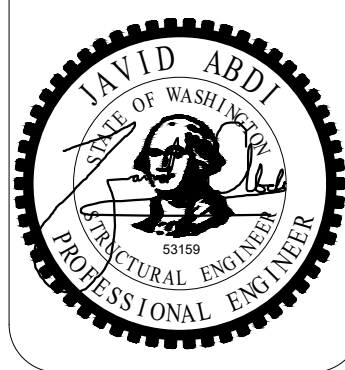
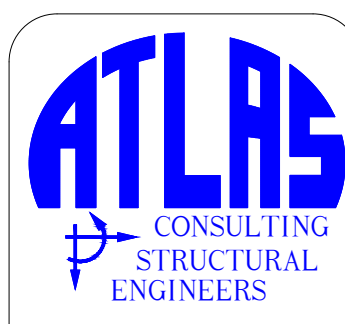
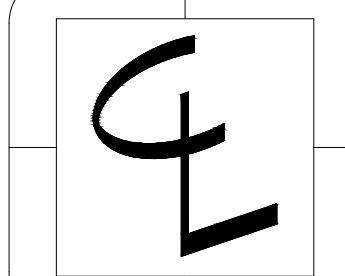


Imani Residence  
2728 63rd Ave SE Mercer Island WA

CONTENTS  
Floor Framing  
Details

DRAWN BY  
JDA  
DATE  
01.06.25

S6.3

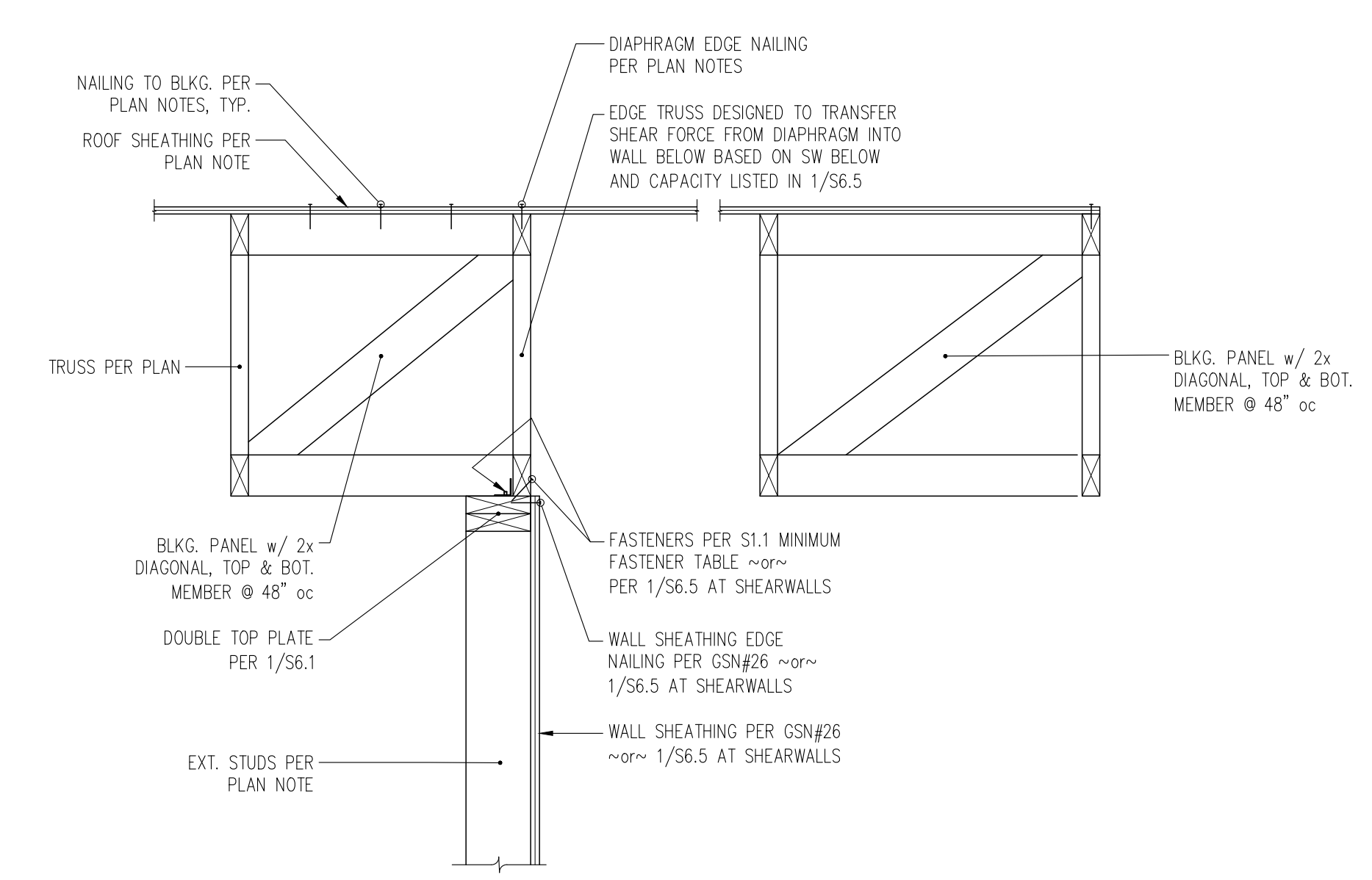


Imani Residence  
 2728 63rd Ave SE Mercer Island WA

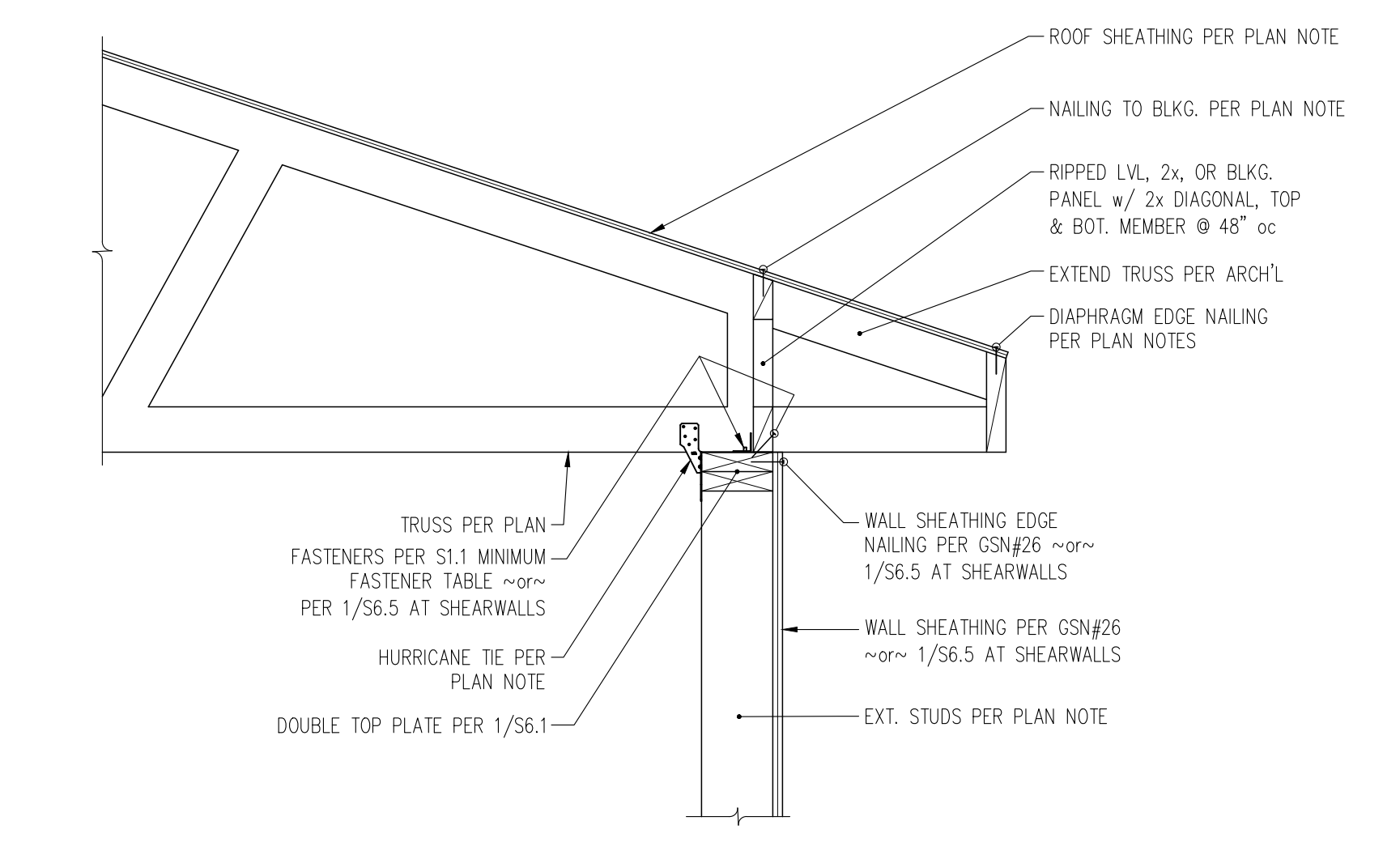
CONTENTS  
 Roof Framing  
 Details

DRAWN BY  
 JDA  
 DATE  
 01.06.25

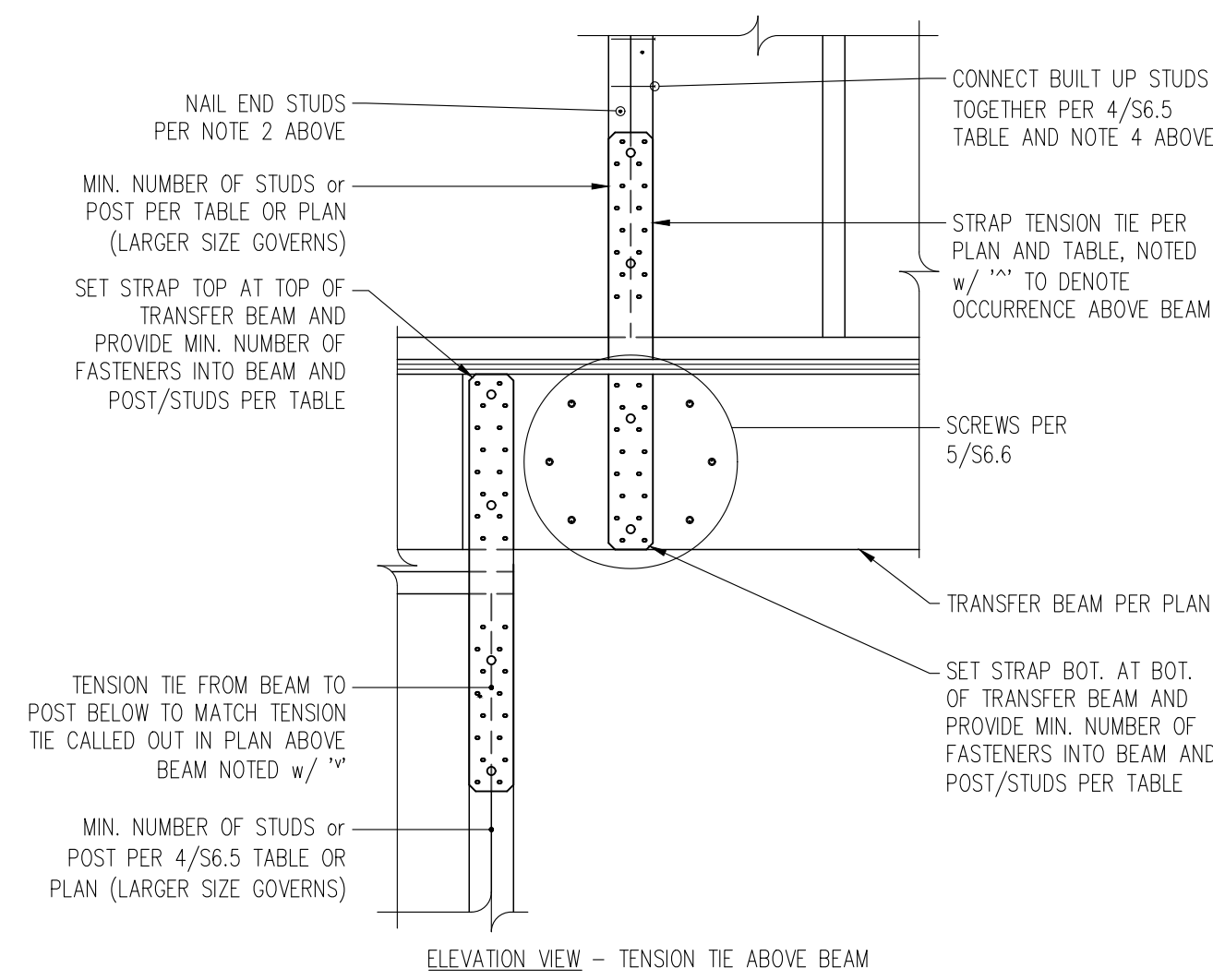
S6.4



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



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



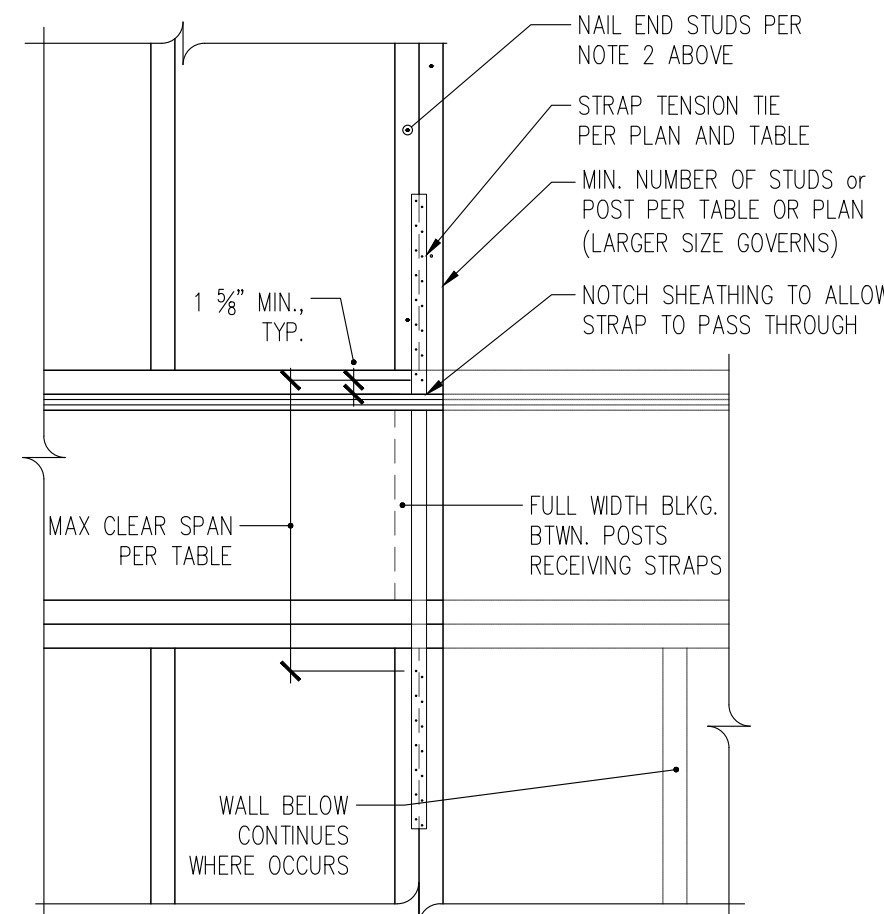
ELEVATION VIEW - TENSION TIE ABOVE BEAM

9  
S6.5 STRAP TENSION TIE ABOVE TRANSFER BEAM  
1" = 1'-0"

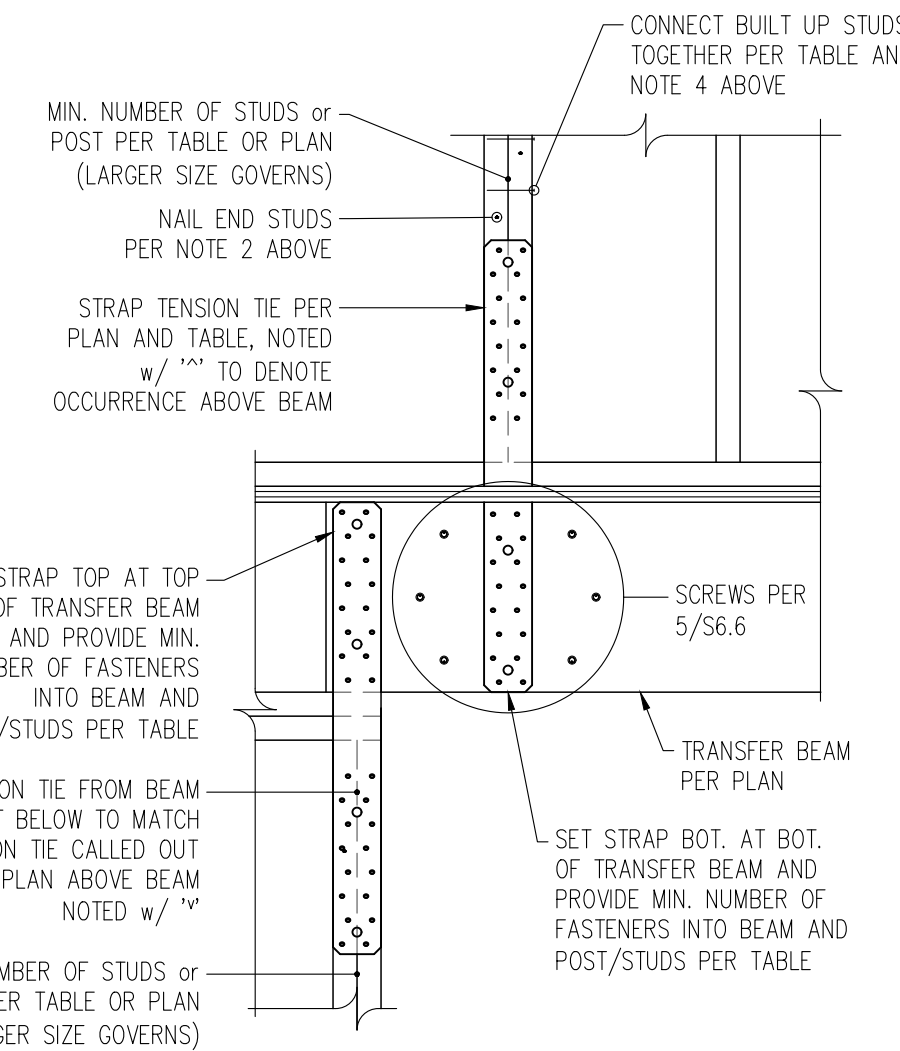
STRAP TENSION TIE SCHEDULE

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" $\phi$ x 3/4"	1,150#	10d @ 6" oc
MSTC40	(2)2x	18" - (28)0.148" $\phi$ x 3/4"	2,890#	10d @ 4" oc
MSTC52	(3)2x	18" - (44)0.148" $\phi$ x 3/4"	4,225#	(6)3/4" $\phi$ x 4 1/2" SDS
MSTC66	(3)2x	18" - (64)0.148" $\phi$ x 3/4"	5,850#	(12)3/4" $\phi$ x 6" SDS

- 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^ - SET STRAP SO 1/2 OF FASTENERS ARE INSTALLED INTO BEAM, SEE 9/S6.5  
 HDU2^ - 3/8" LAG SCREW WITH 7" MINIMUM PENETRATION INTO BEAM  
 HDU4^ - 3/8" LAG SCREW WITH 10" MINIMUM PENETRATION INTO BEAM



ELEVATION VIEW - TYPICAL CONDITION

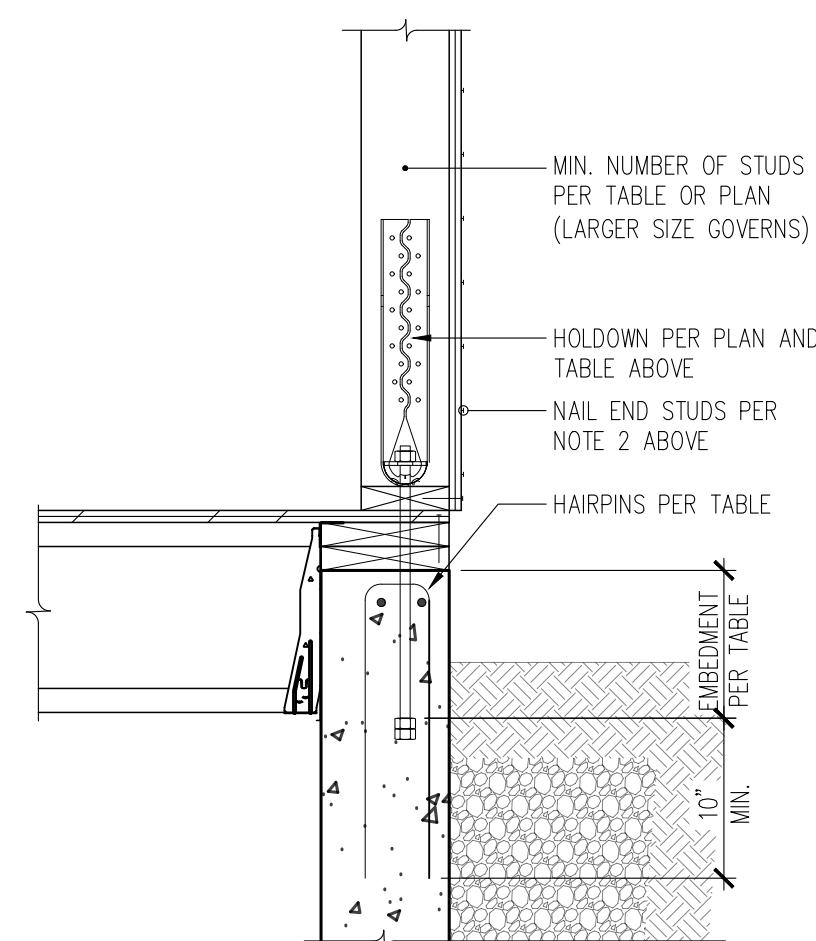


ELEVATION VIEW - TENSION TIE ABOVE BEAM

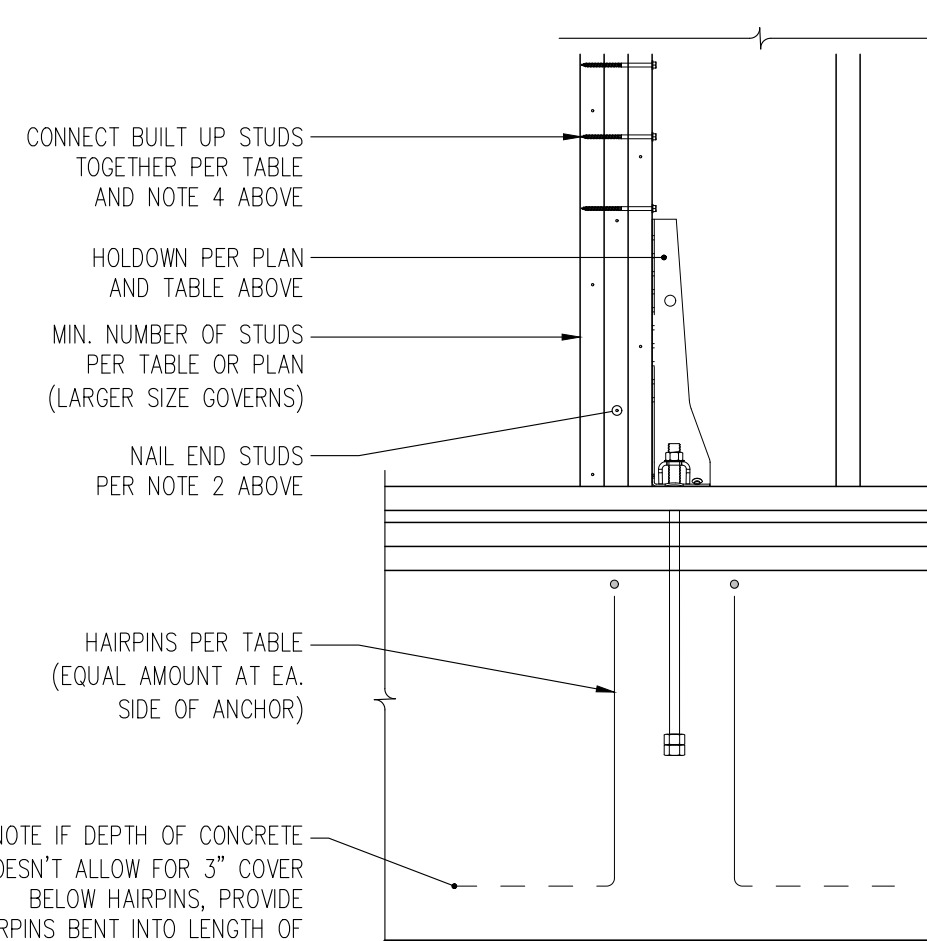
HOLDOWN TENSION TIE SCHEDULE

TIE MARK	MIN. NUMBER OF STUDS	ANCHOR ( $\phi$ 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" $\phi$ x 10" - (2)#4 HAIRPIN	(6)3/4" $\phi$ x 2 1/2" SDS SCREWS	3,075#	10d @ 4" oc
HDU4	(3)2x	3/8" $\phi$ x 10" - (2)#4 HAIRPIN	(10)3/4" $\phi$ x 2 1/2" SDS SCREWS	4,565#	(9)3/4" $\phi$ x 4 1/2" SDS
HDU5	(3)2x	3/8" $\phi$ x 10" - (2)#4 HAIRPIN	(14)3/4" $\phi$ x 2 1/2" SDS SCREWS	5,645#	(10)3/4" $\phi$ x 4 1/2" SDS
HDU8	(4)2x	7/8" $\phi$ x 10" - (4)#4 HAIRPIN	(20)3/4" $\phi$ x 2 1/2" SDS SCREWS	7,870#	(15)3/4" $\phi$ x 6" SDS
HDU11	6x6	1" $\phi$ x 10" - (4)#4 HAIRPIN	(30)3/4" $\phi$ x 2 1/2" SDS SCREWS	11,175#	N/A
HDU14	6x6	1" $\phi$ x 10" - (6)#4 HAIRPIN	(36)3/4" $\phi$ 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" ANCHOR  
 ASTM F 1554 Gr. 55 FOR 7/8" AND 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  
S6.5 HOLDOWN DETAIL AND SCHEDULE  
1" = 1'-0"

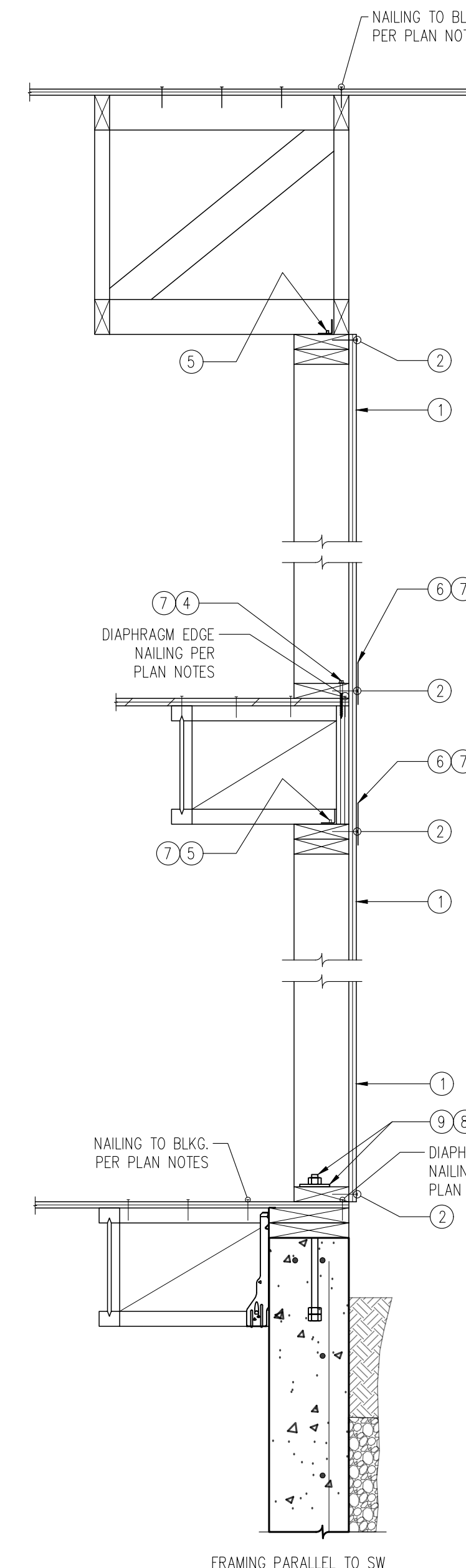
TENSION TIE ABOVE BEAM

TIE MARK	Min. # of studs	FASTENERS	ASD CAPACITY	BUILT-UP STUD FACE NAILS or SCREWS
MSTC28^	(2)2x	(16)0.148" x 2 1/2"	1,400#	10d @ 6" oc
HDU2^	(2)2x	(6)3/4" $\phi$ x 2 1/2" SDS	3,100#	10d @ 4" oc
HDU4^	(3)2x	(10)3/4" $\phi$ x 2 1/2" SDS	4,465#	(9)3/4" $\phi$ x 4 1/2" SDS

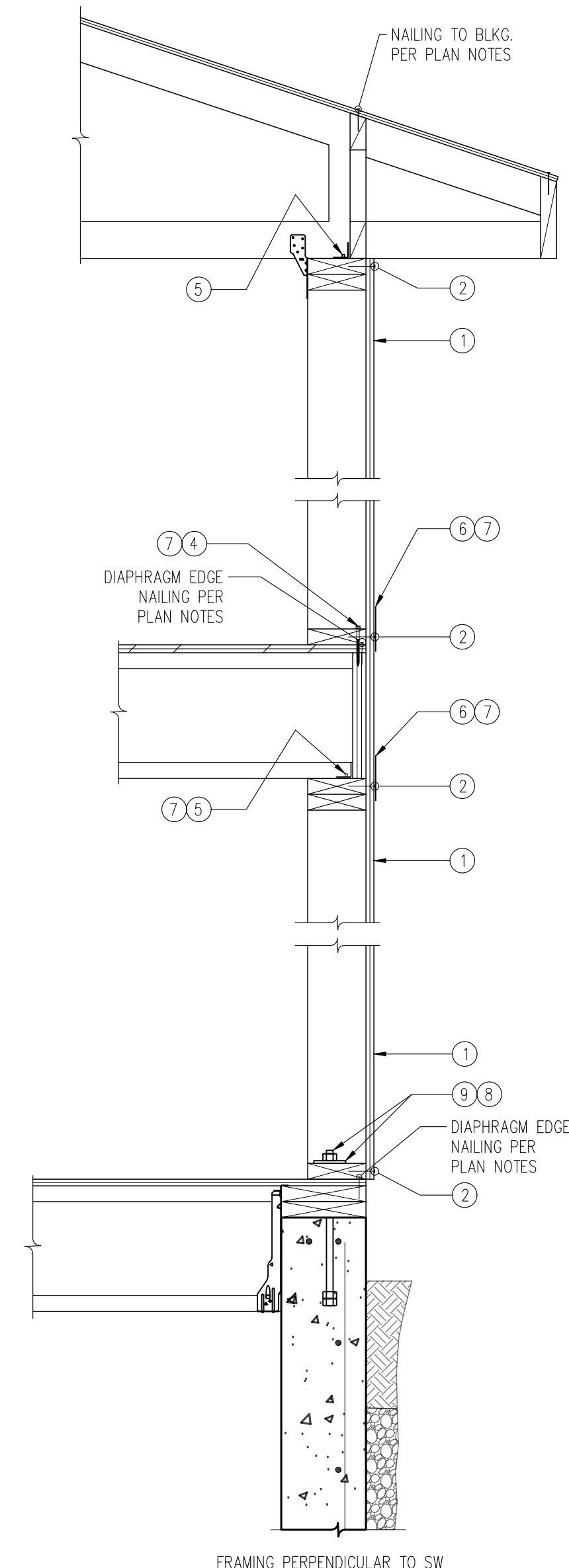
SHEARWALL SCHEDULE

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 SOLE PLATE TO SILL PLATE			ANCHOR BOLTS TO CONC.	ASD CAPACITY, PLF
				4" $\phi$ x 3 3/4" SDS SCREWS	A35 CLIPS	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-7	3/4"	7" oc	3x	8" oc	10" oc	9" oc	18" oc 20" oc	710
SW-44	1/2"	4" oc EA. SIDE	3x	5" oc	8" 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 7/8" AT INTERIOR SHEARWALLS ONLY. 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 (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 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.

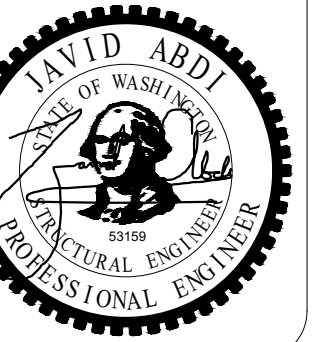
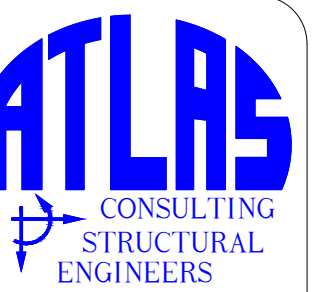
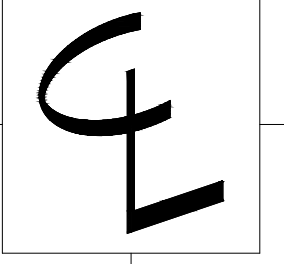


FRAMING PARALLEL TO SW



FRAMING PERPENDICULAR TO SW

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

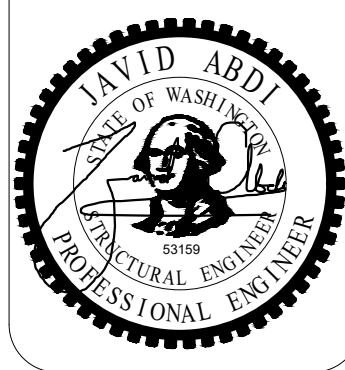
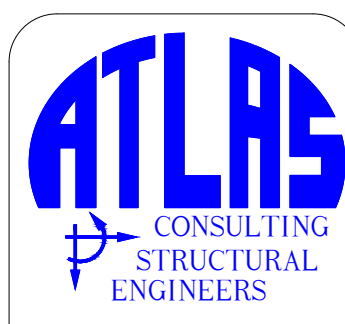
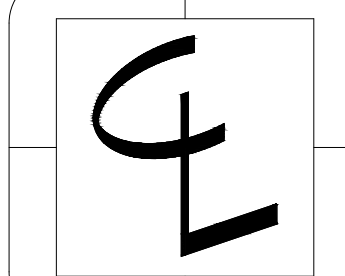


Imani Residence  
2728 63rd Ave SE Mercer Island WA

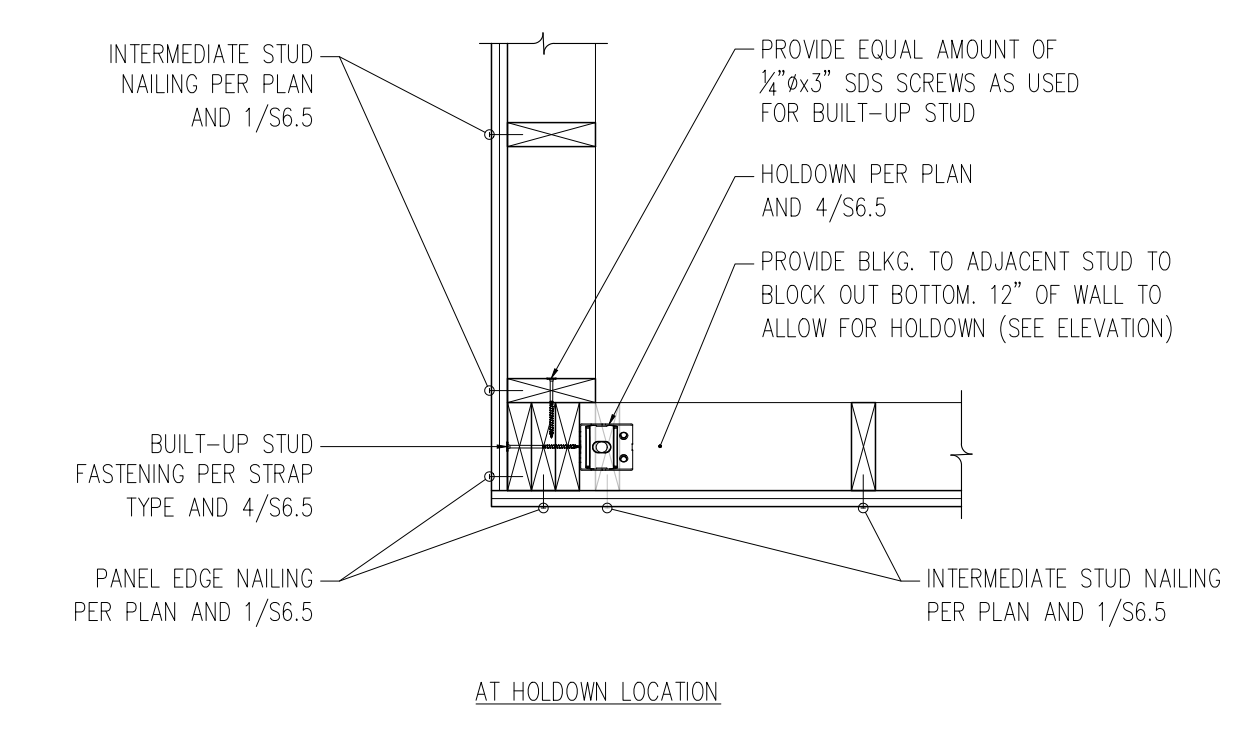
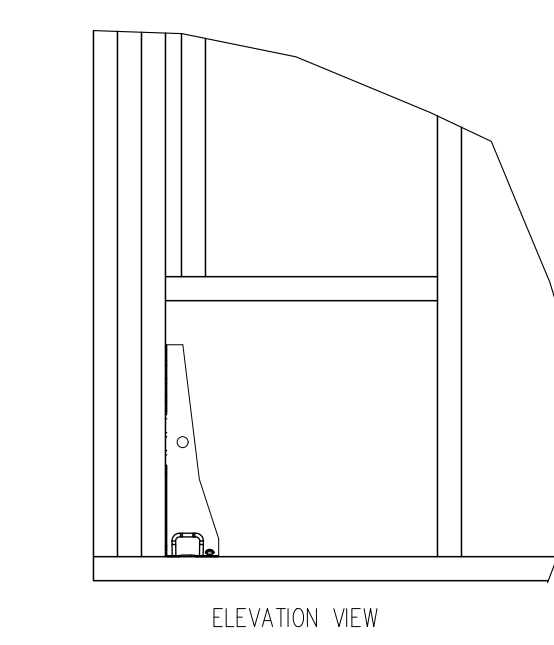
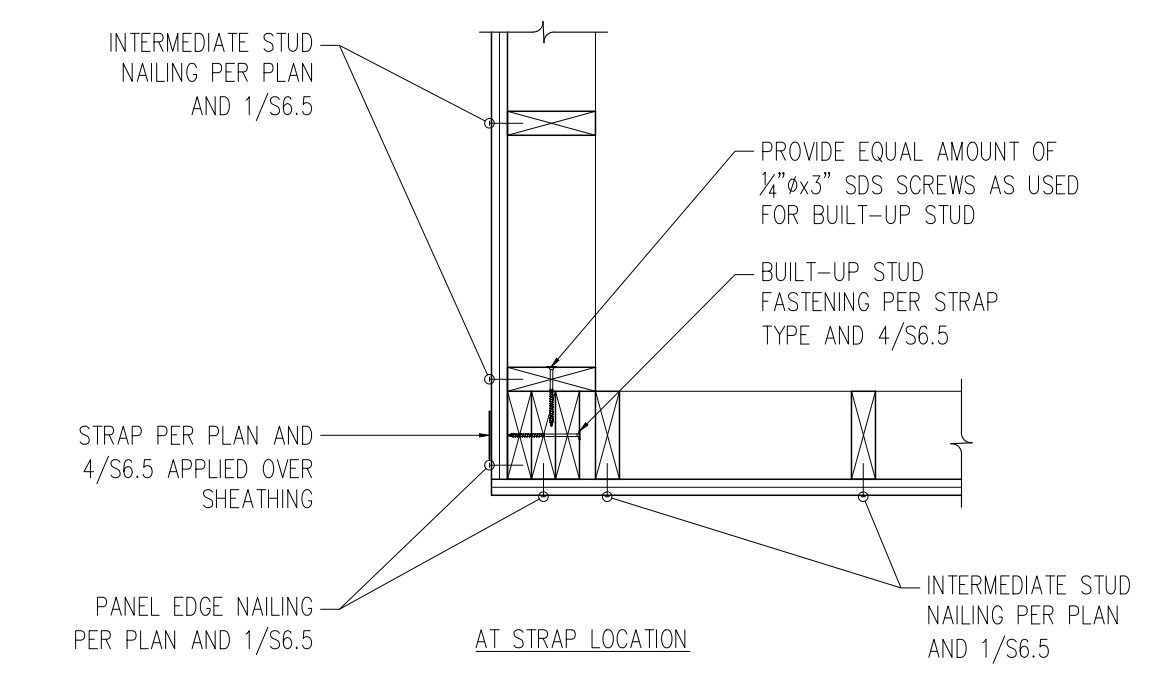
CONTENTS  
Lateral  
Details

DRAWN BY  
JDA  
DATE  
01.06.25

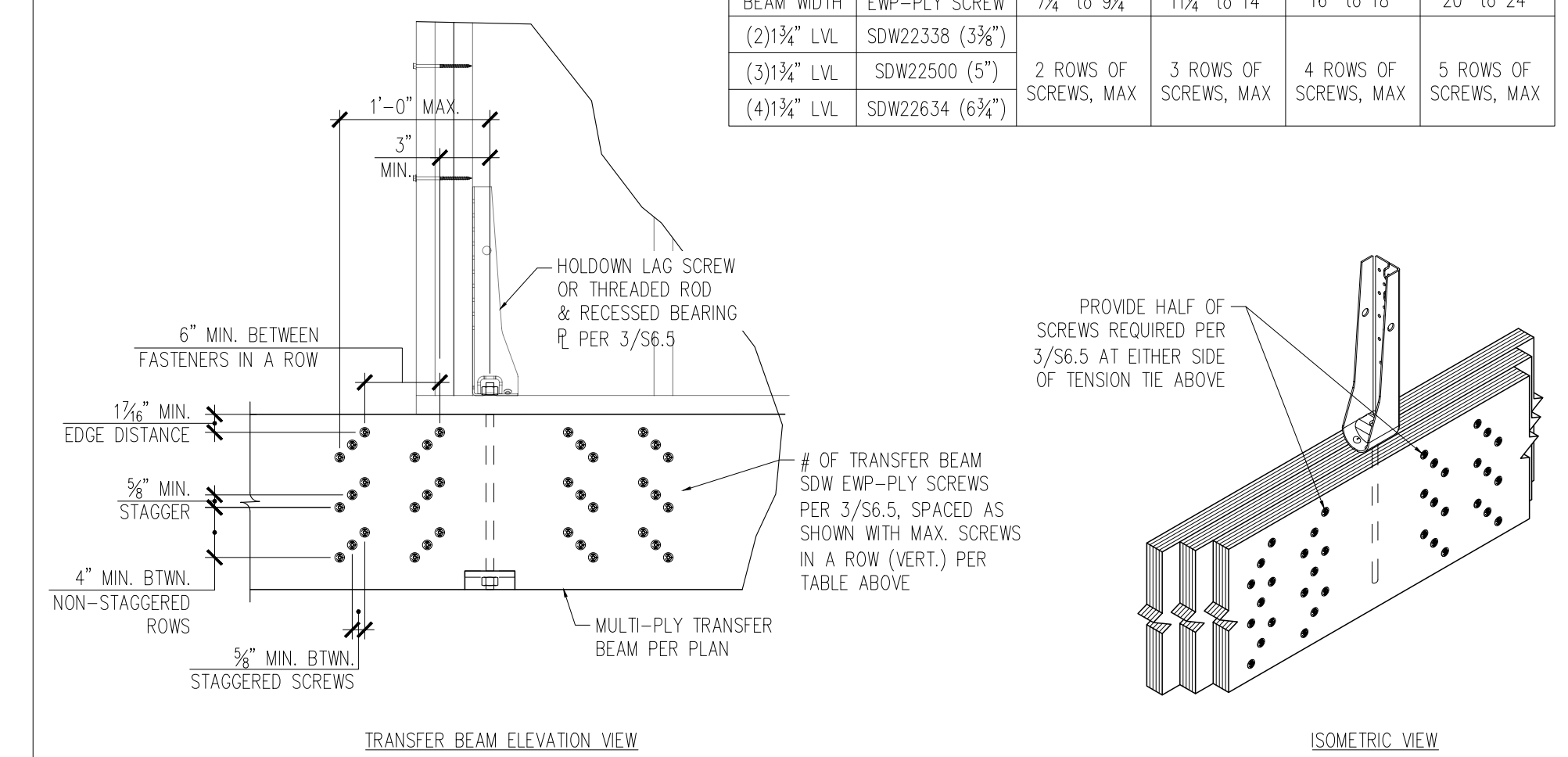
S6.5



Imani Residence  
2728 63rd Ave SE Mercer Island WA

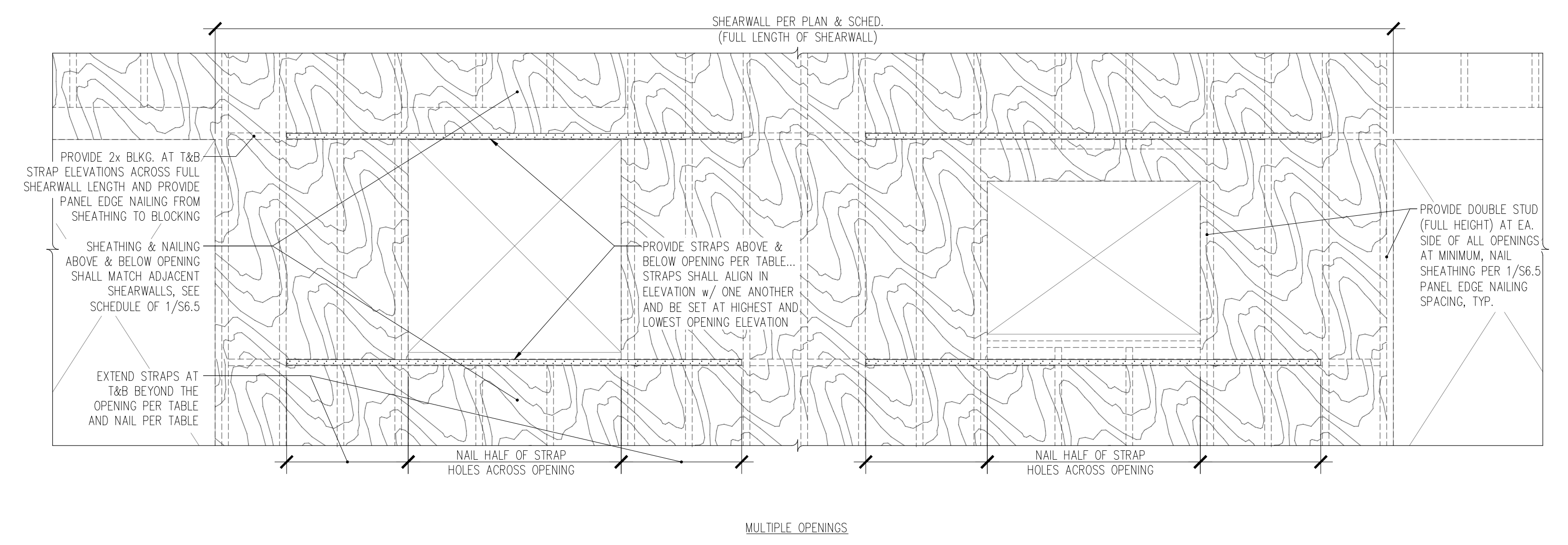


TRANSFER BEAM WIDTH	SIMPSON SDW EWP-PLY SCREW	TRANSFER BEAM DEPTH			
		7 1/2" to 9 1/2"	11 1/2" to 14"	16" to 18"	20" to 24"
(2) 1 3/4" LVL	SDW22338 (3 3/8")	2 ROWS OF SCREWS, MAX	3 ROWS OF SCREWS, MAX	4 ROWS OF SCREWS, MAX	5 ROWS OF SCREWS, MAX
(3) 1 3/4" LVL	SDW22500 (5")				
(4) 1 3/4" LVL	SDW22634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

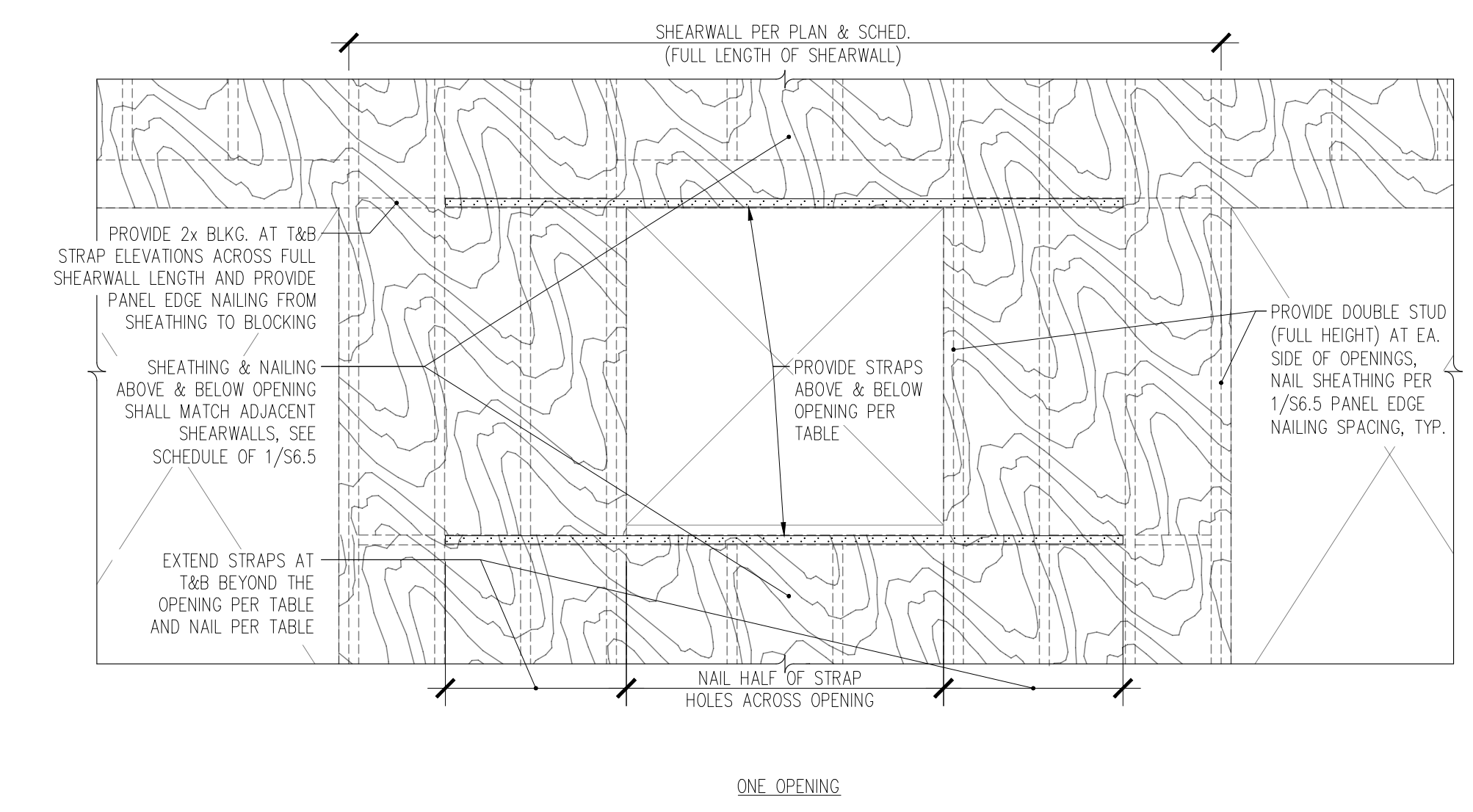


5 MULTI-PLY TRANSFER BEAM CONNECTION DETAILS  
S6.6 1" = 1'-0"

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



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



ONE OPENING

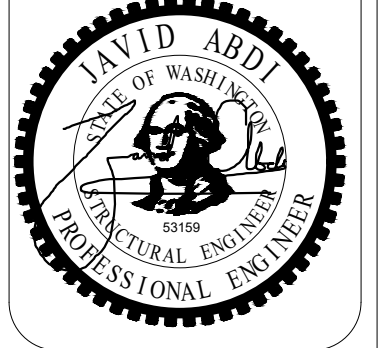
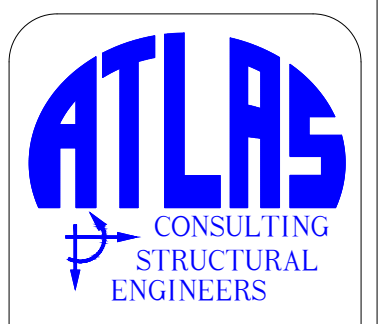
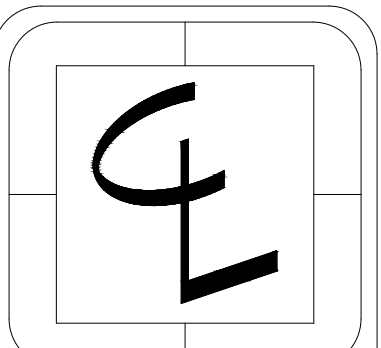
TYPE	STRAP	END LENGTH	NAILS
1	CS20	16"	(12) 0.148" x 2 1/2"
2	CS20	24"	(12) 0.148" x 2 1/2"
3	CS20	30"	(12) 0.148" x 2 1/2"
4	CS18	24"	(16) 0.148" x 2 1/2"
5	CS18	30"	(16) 0.148" x 2 1/2"
6	CS18	34"	(16) 0.148" x 2 1/2"
7	CS16	30"	(20) 0.148" x 2 1/2"
8	CS16	45"	(20) 0.148" x 2 1/2"

STRAP TABLE

CONTENTS  
Lateral  
Details

DRAWN BY  
JDA  
DATE  
01.06.25

S6.6

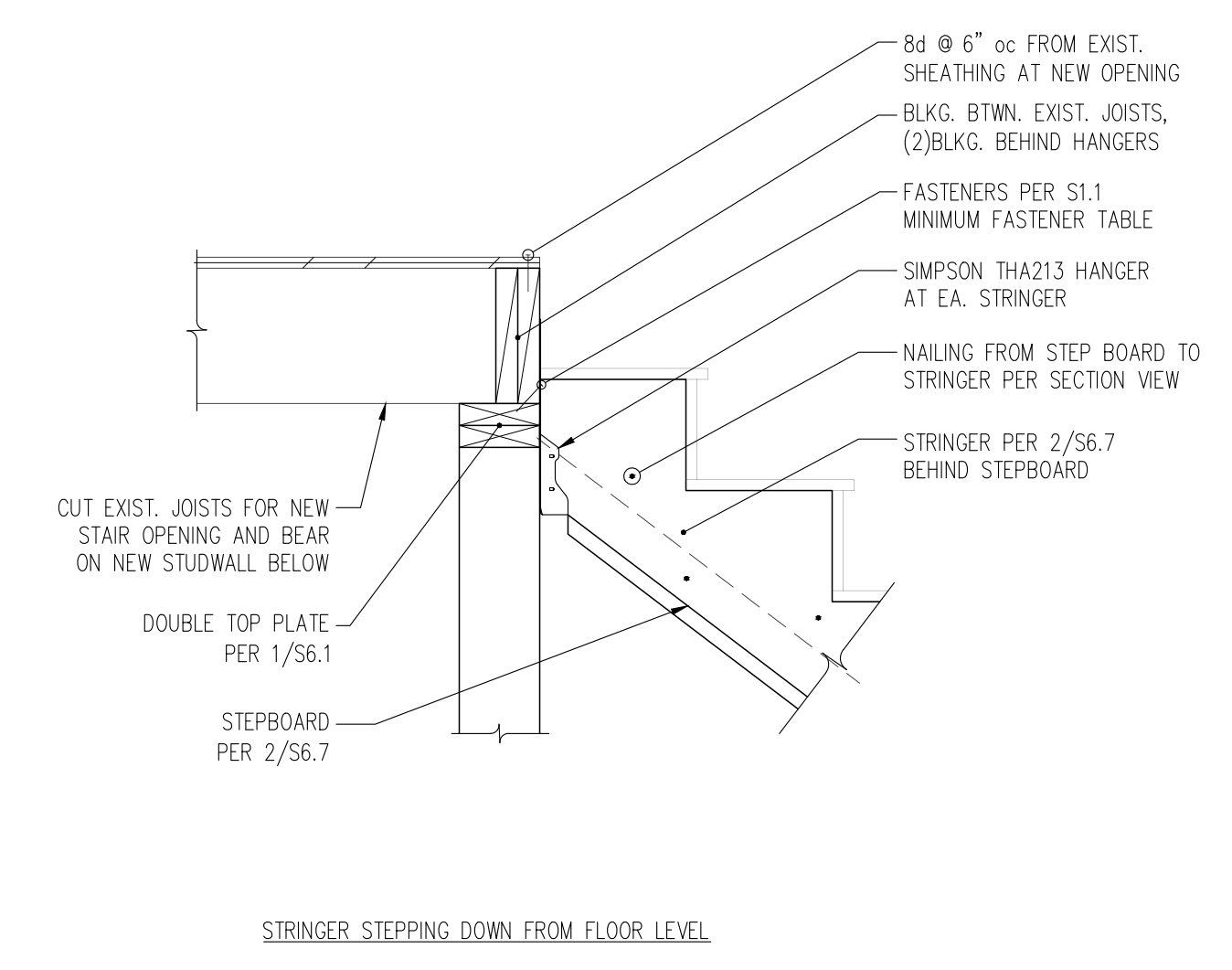


**Imani Residence**  
 2728 63rd Ave SE Mercer Island WA

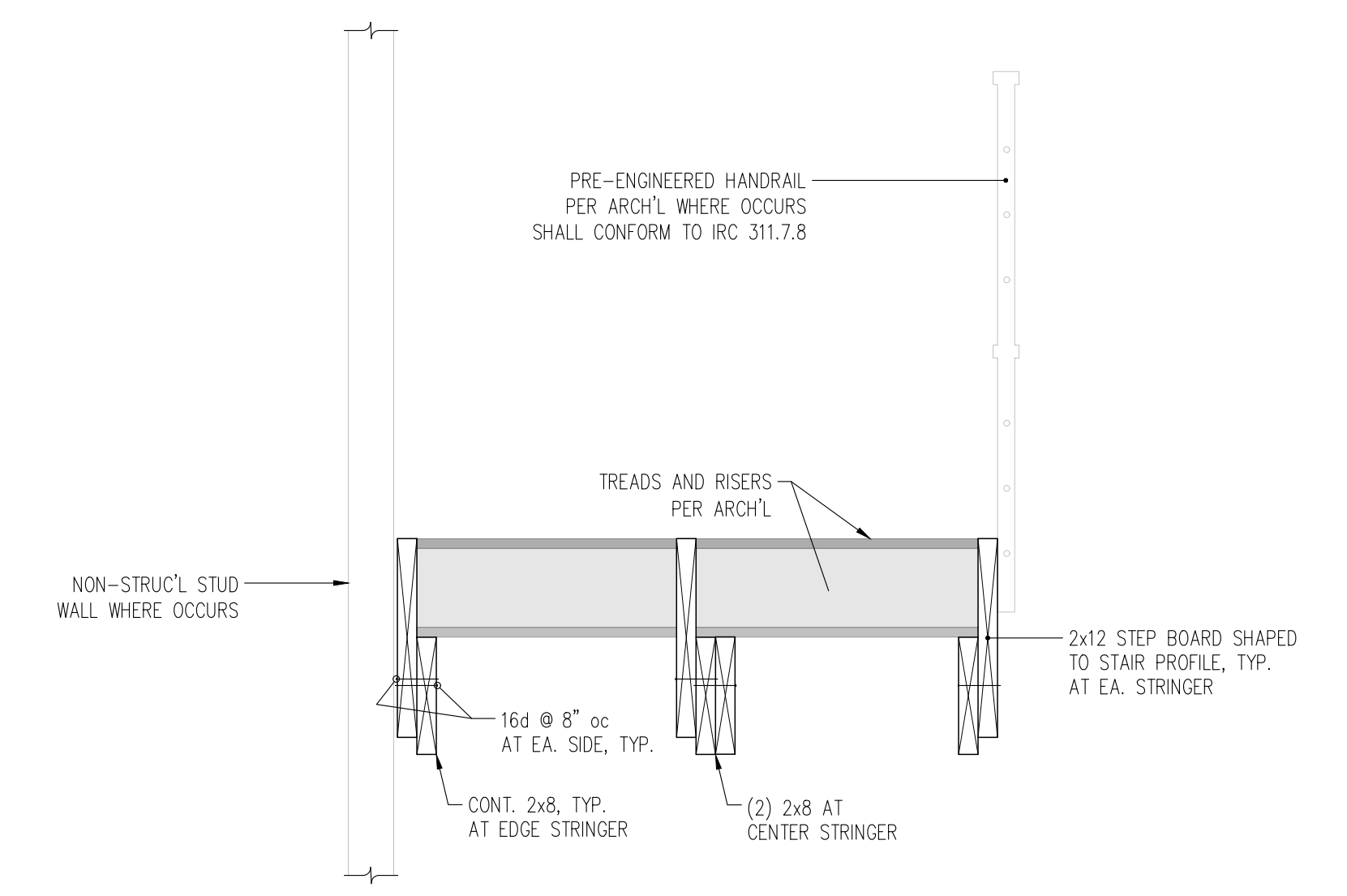
**CONTENTS**  
 Typical Stair  
 Details

**DRAWN BY**  
 JDA  
**DATE**  
 01.06.25

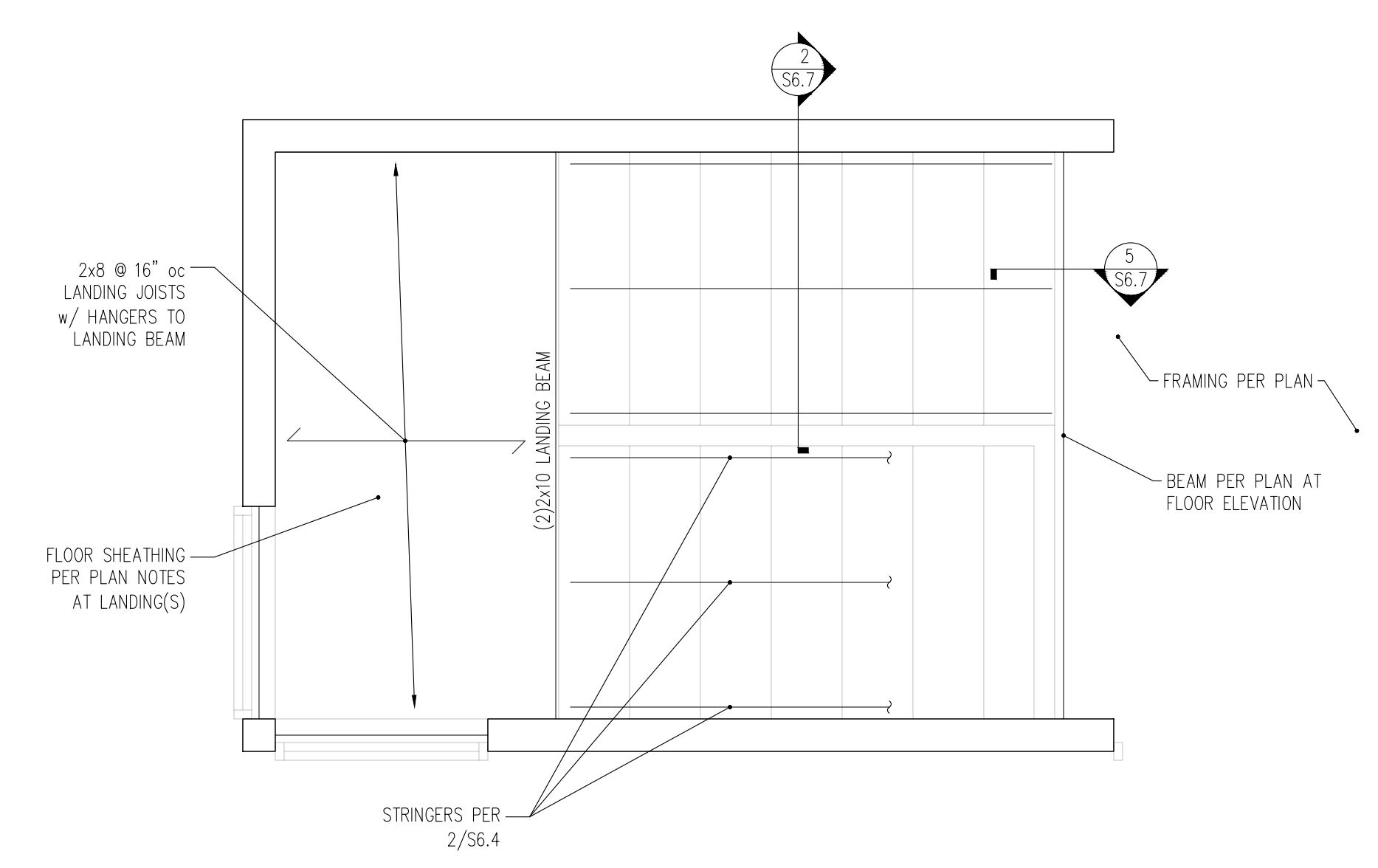
**S6.7**



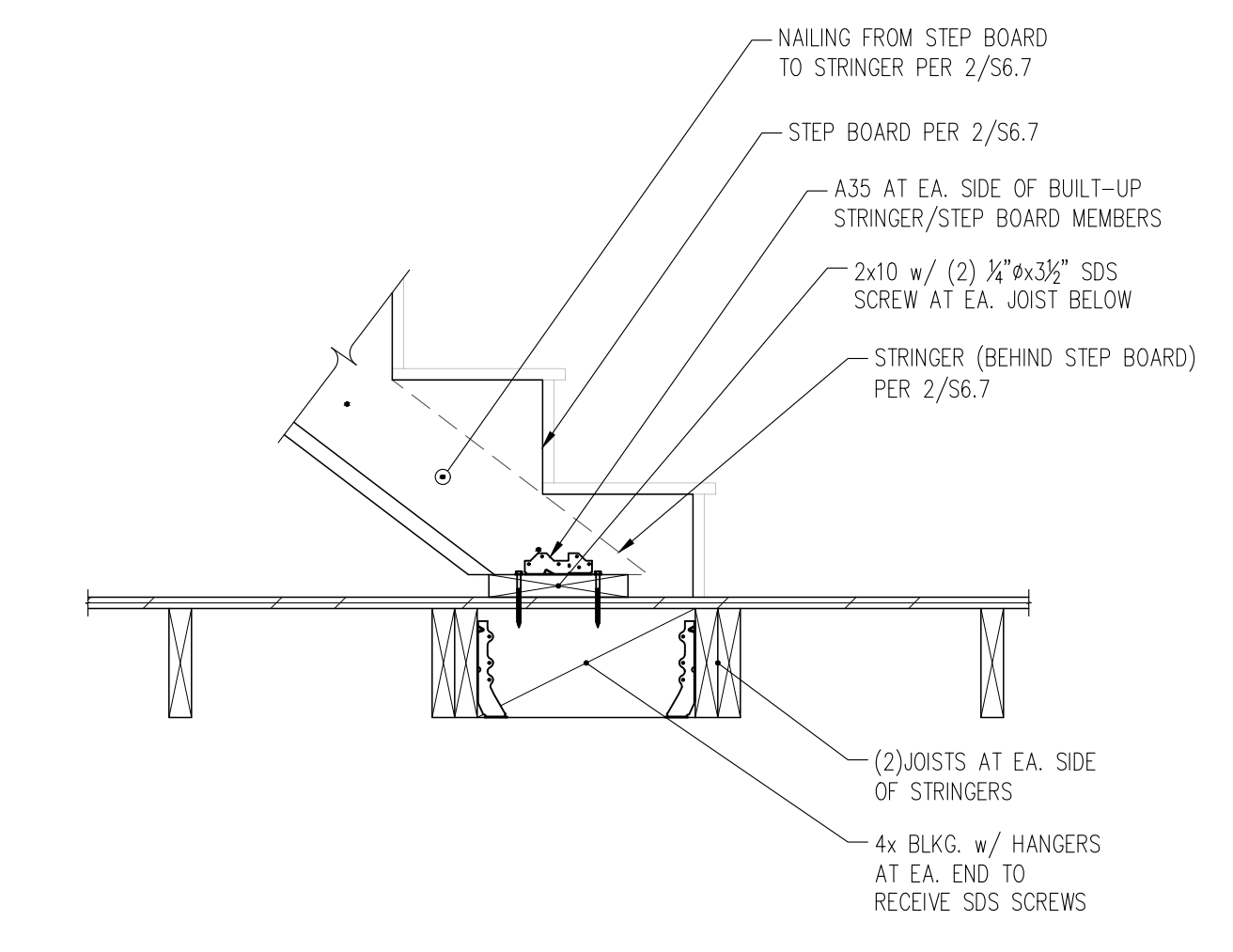
**5**  
 S6.7 ELEVATION OF STRINGER TO SUPPORT MEMBER  
 1" = 1'-0"



**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"

TREE PROTECTION DETAIL

**TREE PROTECTION AREA (TPZ)**

**KEEP OUT!**

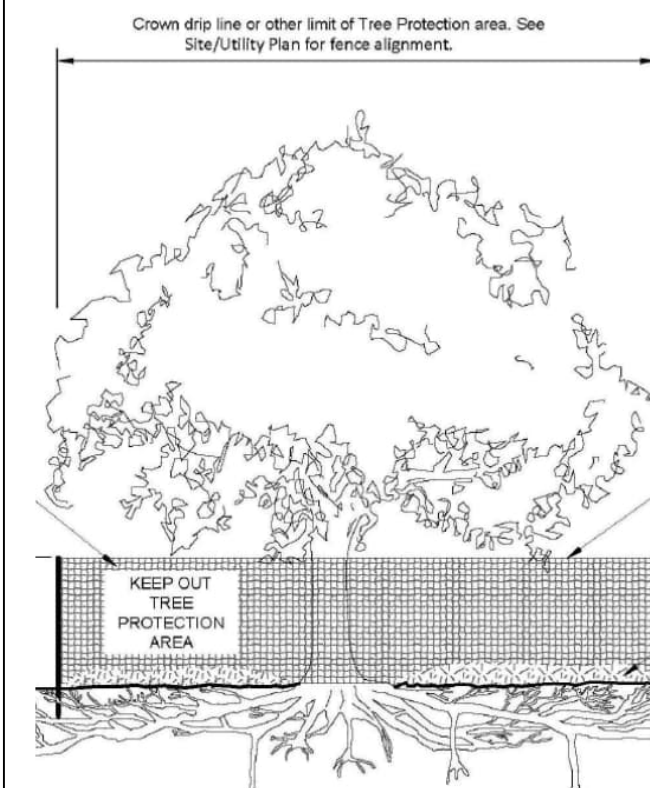
**DO NOT REMOVE OR ADJUST THE APPROVED LOCATION OF THIS TREE PROTECTION AREA**

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.



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) — X — X —
STABILIZED CONSTRUCTION ENTRANCE	(CE) [CE]
CATCH BASIN INLET PROTECTION	(IP) [IP]
TREE PROTECTION FENCING	(TP) — ○ — ○ — ○ —
STRAW WATTLES	(SW)   USE AS NEEDED
PLASTIC COVERING	(PC) [PC] COVER EXPOSED AREAS WITHIN MERCER ISLAND TIME LIMIT
STOCKPILE	(SP) [SP]

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.

LEGAL DESCRIPTION

LOTS 5 AND 6 IN BLOCK 21 OF EAST SEATTLE AS PER PLAT RECORDED IN VOLUME 3 OF PLATS, PAGE 22, RECORDS OF KING COUNTY, WASHINGTON.

TOGETHER WITH THAT PORTION OF LOTS 24 AND 25 OF SAID BLOCK 21, DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHWEST CORNER OF SAID LOT 25;  
 THENCE NORTH 10°10'24" WEST ALONG THE WESTLINE OF SAID LOTS 25 AND 24 A DISTANCE OF 50.00 FEET;  
 THENCE SOUTH 09°37'23" EAST 4.99 FEET;  
 THENCE SOUTH 09°37'23" EAST 50.00 FEET TO THE SOUTH LINE OF SAID LOT 25 THAT IS NORTH 79°51'00" EAST 4.51 FEET FROM THE SOUTHWEST CORNER OF SAID LOT 25;  
 THENCE SOUTH 79°51'00" WEST 4.51 FEET TO THE SOUTHWEST CORNER OF SAID LOT 25 AND THE POINT OF BEGINNING PURSUANT TO STIPULATED ORDER FILED MAY 7, 2024 UNDER KING COUNTY CASE NUMBER 23-202297-1 SEA, RECORDED UNDER KING COUNTY RECORDING NUMBER 20240509000143, RECORDS OF THE KING COUNTY SUPERIOR COURT OF THE STATE OF WASHINGTON;

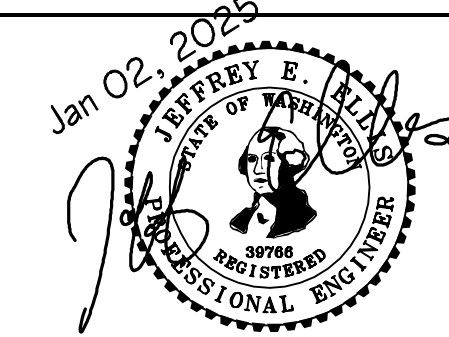
SITUATE IN THE COUNTY OF KING, STATE OF WASHINGTON.



NO.	DATE	BY	REVISIONS

APPLICANT JASON IMANI IMANI HOMES	DATE: Jan 02, 2025
	JOB# 2106
	DRAFTED: SS DESIGN: SS
	DIGITAL SIGNATURE

DATE: Jan 02, 2025
JOB# 2106
DRAFTED: SS DESIGN: SS
DIGITAL SIGNATURE



**CIVIL ENGINEERING SOLUTIONS**  
 701 N 36th STREET, SUITE 450 SEATTLE, WA 98103  
 206.930.0342 DUFFEY@CESOLUTIONS.US

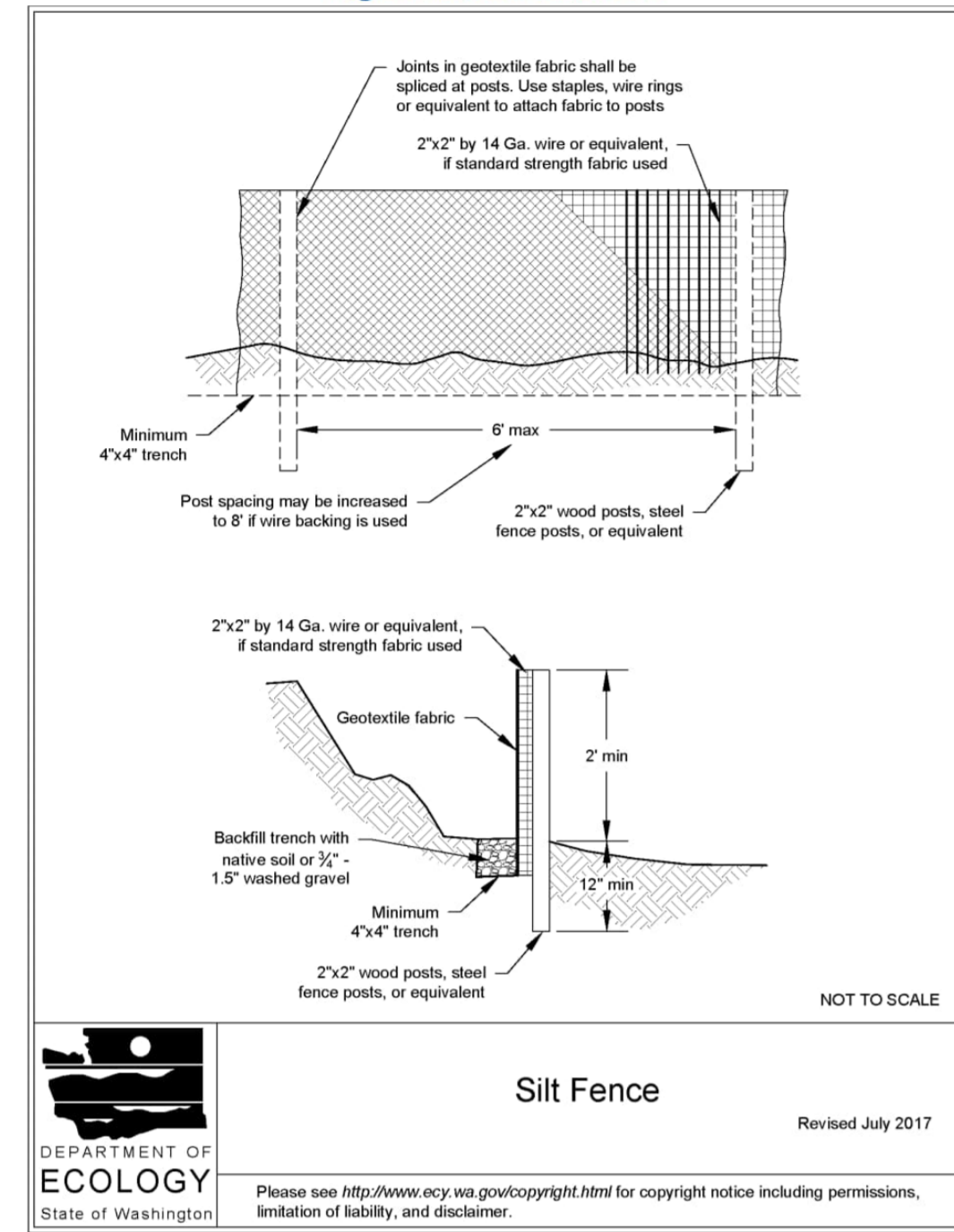
**TESC PLAN**  
 PROPOSED RESIDENCE  
 2728 63RD AVENUE SE, MERCER ISLAND, WA 98040

DRAWING NO:  
**C1.0**  
 APN 217450-3575

**SILT FENCE DETAIL**

DOE

**Figure II-3.22: Silt Fence**



**Silt Fence**  
Revised July 2017  
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2019 Stormwater Management Manual for Western Washington  
Volume II - Chapter 3 - Page 371

**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 BMPs 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 ONE CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON.

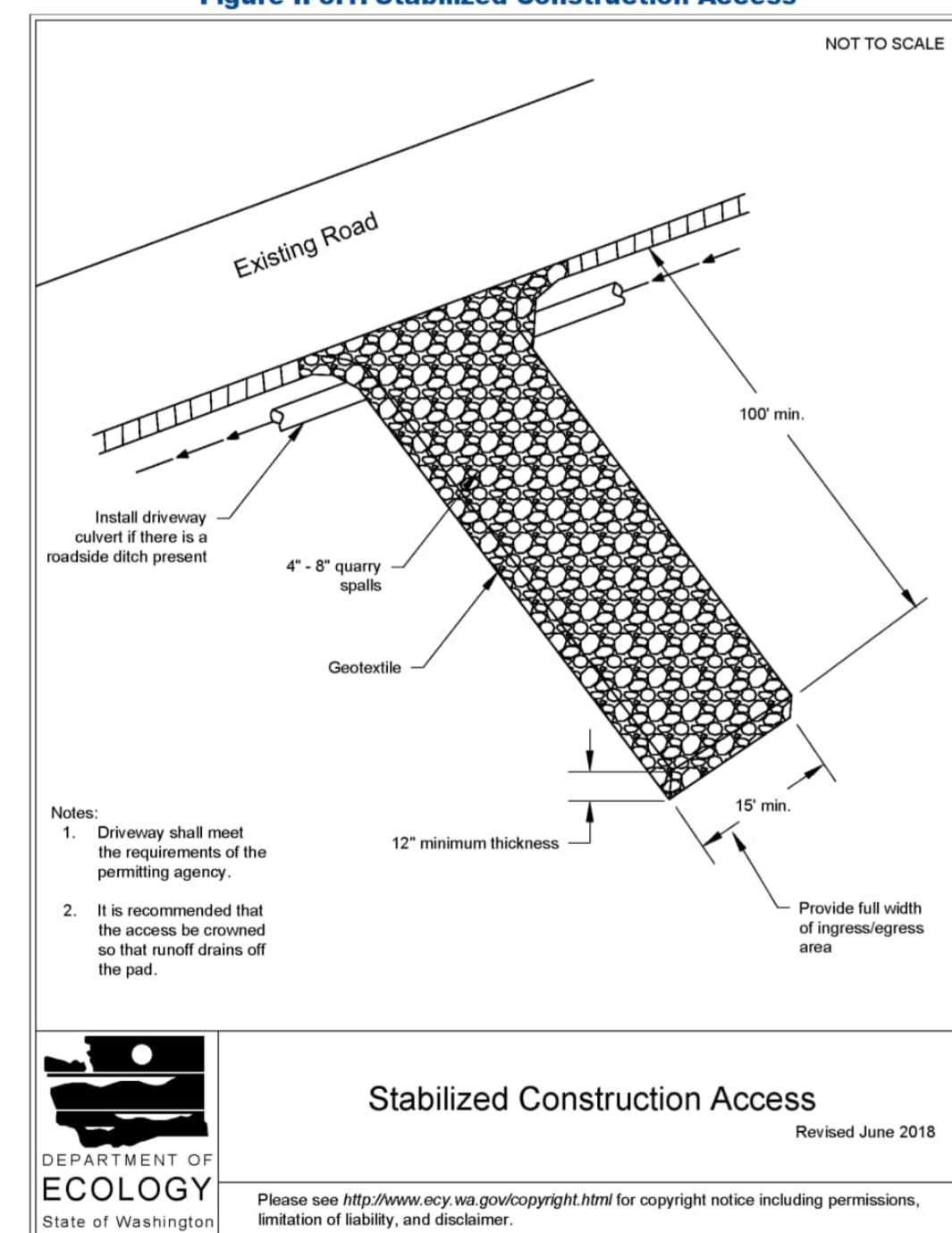
**CITY NOTES**

- 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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2019 Stormwater Management Manual for Western Washington  
Volume II - Chapter 3 - Page 279

**DENUDED AREAS REQUIREMENTS**

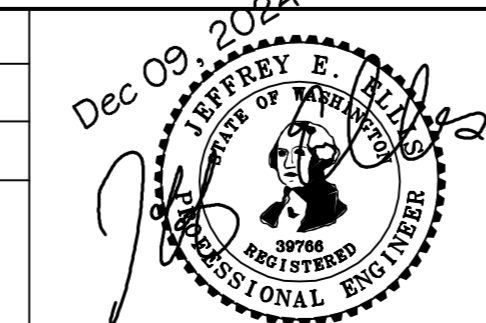
APRIL 1 TO SEPT 30  
ALL DENUDED AREAS MUST BE STABILIZED WITHIN 7 DAYS OF CONSTRUCTION. PLEASE READ ALL CITY TESC NOTES ON SHEET C1.2

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.

NO.	DATE	BY	REVISIONS

APPLICANT  
JASON IMANI  
IMANI HOMES

DATE: Dec 09, 2024  
JOB# 2106  
DRAFTED: SS DESIGN: DE  
DIGITAL SIGNATURE



**CIVIL ENGINEERING SOLUTIONS**  
701 N 36th STREET, SUITE 450 SEATTLE, WA 98103  
206.930.0342 DUFFY@CESOLUTIONS.WA

**TESC & CITY NOTES**  
**TESC DETAILS**  
PROPOSED RESIDENCE  
2728 63rd AVENUE SE, MERCER ISLAND, WA 98040

DRAWING NO:  
**C1.2**  
APN 217450-3575

**SANITARY SEWER IMPROVEMENTS**

- 1 -
- 2 - 4" OR 6" SDR 35 PVC SANITARY SEWER(SS) @ MIN 1.0 %.
- 3 -
- 4 - 6" SEWER CLEANOUT PER MERCER ISLAND DETAIL S-19
- 7 - LOCATE AND VIDEO CONDITION OF EXISTING SANITARY SIDE SEWER. REPLACE LINE IF FOUND DEFECTIVE AS DETERMINED BY CITY INSPECTOR.

**WATER IMPROVEMENTS**

- 10 - 1" WATER METER AND WATER SERVICE IS REQUIRED PER STANDARD DETAIL W-13. FIRE REQUIRES 13D SPRINKLER SYSTEM.
- 11 - 1.5" 250 PSI PRIVATE HDPE WATER (ASTM D2239) FROM METER TO HOUSE. RECOMMENDED DEPTH=36". COORDINATE HOUSE ENTRY WITH BUILDER/OWNER.
- 12 -
- 14 -

**STORM DRAIN**

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

**STORM DRAIN STRUCTURES**

- 30 -
- 31 -
- 32 -
- 33 -
- 34 -
- 35 - MIN 18" ID YARD DRAIN (OR EQUAL) WITH SOLID LID
- 36 -
- 38 -
- 39 -
- 40 -
- 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.

**STREET IMPROVEMENTS**

- 63 - PRELIMINARY PSE JOINT TRENCH LOCATION
- 71 - PAVEMENT RESTORATION - COORDINATE SCOPE OF PAVEMENT RESTORATION WITH CITY INSPECTOR

MINIMUM 10% ORGANIC - COMPOST & MULCH REQUIRED

**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 -
- 58 -

**SOILS**

MAPPED AS "INFILTRATING LID FACILITIES ARE NOT PERMITTED"

**SURVEYOR**

TOPOGRAPHIC SURVEY BY:  
SITE SURVEYING, INC.  
21923 NE 11th STREET  
SAMMAMISH, WA 98074  
PHONE: 425-298-4412  
www.sitesurveying.com

**VERTICAL DATUM**

NAVD 88 PER GPS OBSERVATIONS USING THE WSRN  
SEE SURVEY

**LEGAL DESCRIPTION**

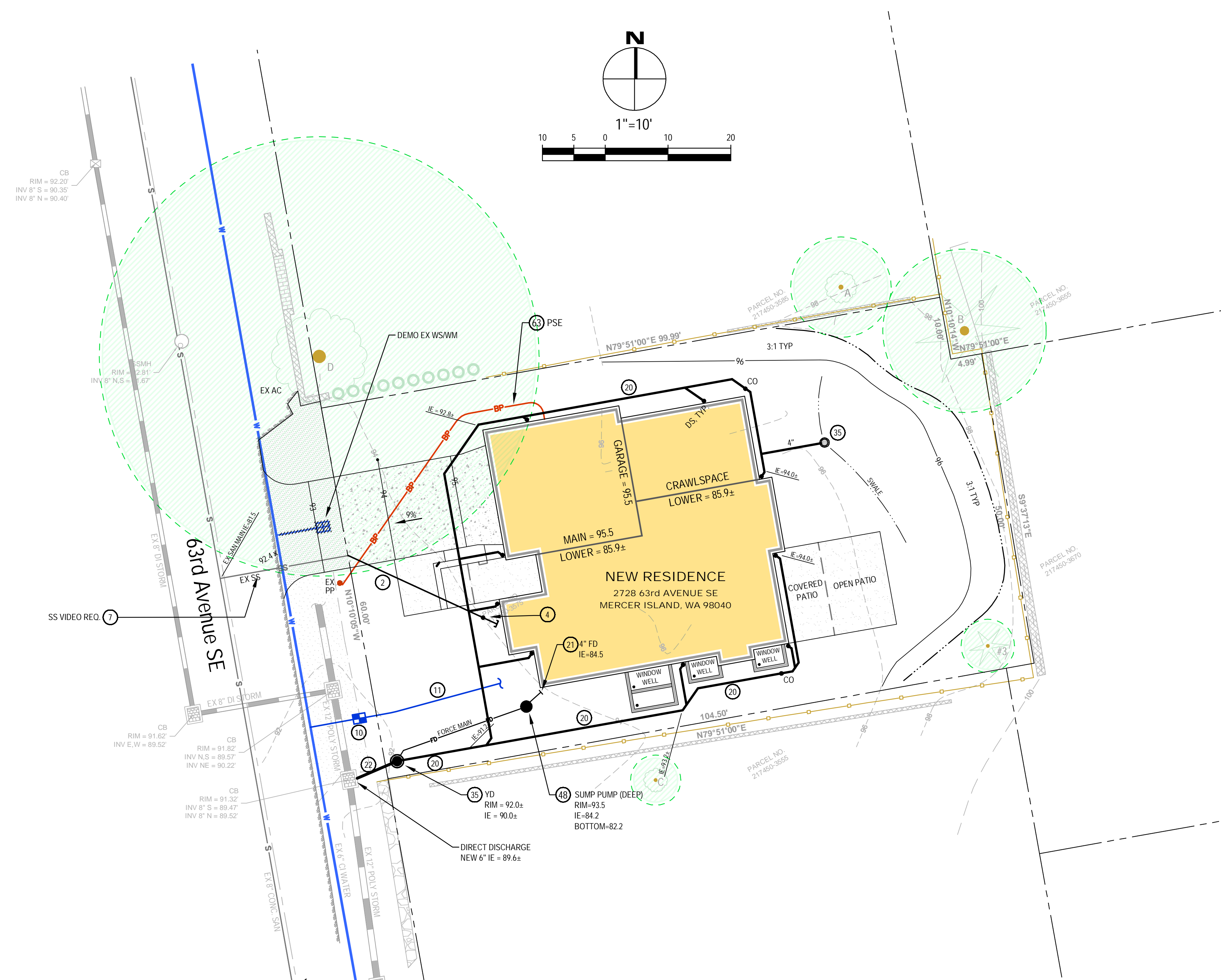
SEE C1.0

**SOIL AMENDMENT REQUIRED**

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

**SOIL INSPECTION REQUIRED BY ENGINEER**

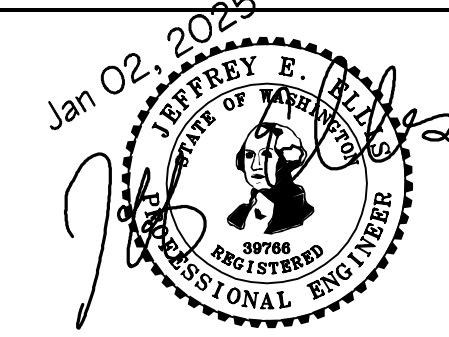
A POST CONSTRUCTION INSPECTION & CERTIFICATION OF AMENDED SOILS IS REQUIRED BY A LICENSED CIVIL ENGINEER. THIS IS REQUIRED BEFORE FINAL PERMITSIGN-OFF AND CERTIFICATE OF OCCUPANCY.



NO.	DATE	BY	REVISIONS

APPLICANT JASON IMANI IMANI HOMES	DATE: Jan 02, 2025 JOB#: 2106 DRAFTED: DE DESIGN: DE DIGITAL SIGNATURE
---	---

DATE: Jan 02, 2025 JOB#: 2106 DRAFTED: DE DESIGN: DE DIGITAL SIGNATURE
---



**CIVIL ENGINEERING SOLUTIONS**  
701 N 36th STREET, SUITE 450 SEATTLE, WA 98103  
206.930.0342 DUFFY@CESOLUTIONS.US

**DRAINAGE / CIVIL PLAN**  
PROPOSED RESIDENCE  
2728 63rd AVENUE SE, MERCER ISLAND, WA 98040

DRAWING NO:  
**C2.0**  
APN 217450-3575





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

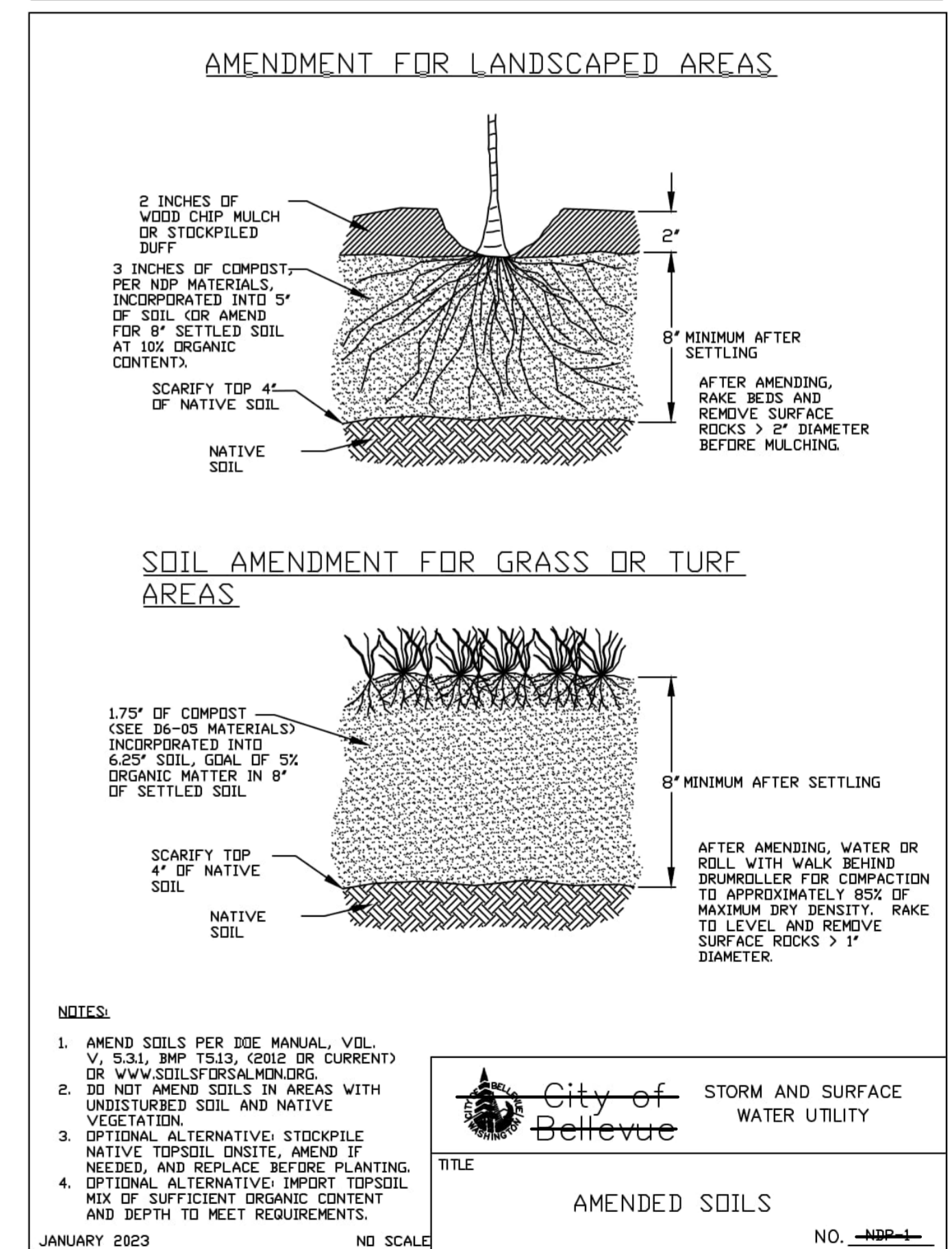
**SOIL AMENDMENT REQUIRED**

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

**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.

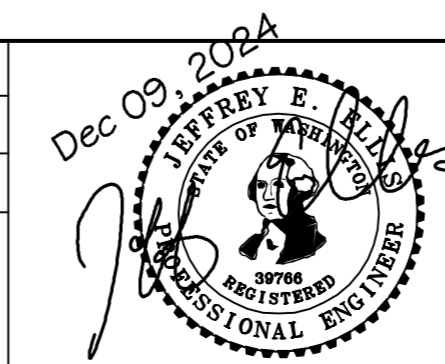
**COMPOST AMENDED SOIL SPEC**



NO.	DATE	BY	REVISIONS

APPLICANT  
JASON IMANI  
IMANI HOMES

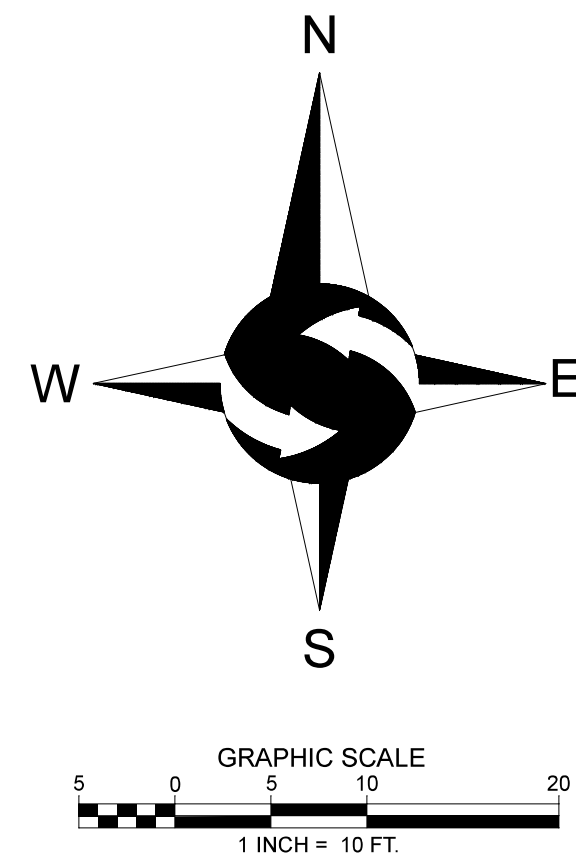
DATE: Dec 09, 2024  
JOB# 2106  
DRAFTED: SS DESIGN: SS  
DIGITAL SIGNATURE



**CIVIL ENGINEERING SOLUTIONS**  
701 N 36th STREET, SUITE 450 SEATTLE, WA 98103  
206.930.0342 DUFFY@CESOLUTIONS.US

**STORM, BMP DETAILS**  
PROPOSED RESIDENCE  
2728 63rd AVENUE SE, MERCER ISLAND, WA 98040

DRAWING NO:  
**C3.5**  
APN 217450-3575



**LEGEND**

- |  |   |  |                         |
|--|---|--|-------------------------|
|  | FOUND MONUMENT IN CASE                          |  | OVERHEAD POWER          |
|  | FOUND REBAR AS DESCRIBED                        |  | OVERHEAD UTILITIES      |
|  | FOUND TACK & LEAD                               |  | CHAINLINK FENCE         |
|  | SET 5/8" X 24" IRON ROD WITH YELLOW PLASTIC CAP |  | WOOD FENCE              |
|  | POWER METER                                     |  | CONCRETE WALL           |
|  | GAS METER                                       |  | ROCKERY                 |
|  | HVAC UNIT                                       |  | ASPHALT SURFACE         |
|  | UTILITY POLE                                    |  | CONCRETE SURFACE        |
|  | CATCH BASIN                                     |  | GRAVEL SURFACE          |
|  | SANITARY SEWER MANHOLE                          |  | CE CEDAR                |
|  | WATER VALVE                                     |  | DF DOUGLAS FIR          |
|  | FIRE HYDRANT                                    |  | DS DECIDUOUS            |
|  | WATER METER                                     |  | MP MAPLE                |
|  | APPROXIMATE LOCATION SANITARY SEWER LINE        |  | PI PINE                 |
|  | APPROXIMATE LOCATION STORM DRAIN LINE           |  | SP SPRUCE               |
|  |   |  | * INDICATES MULTI-TRUNK |

**LEGAL DESCRIPTION**

LOTS 5 AND 6 IN BLOCK 21 OF EAST SEATTLE AS PER PLAT RECORDED IN VOLUME 3 OF PLATS, PAGE 22, RECORDS OF KING COUNTY, WASHINGTON TOGETHER WITH THAT PORTION OF LOTS 24 AND 25 OF SAID BLOCK 21, DESCRIBED AS FOLLOWS BEGINNING AT THE SOUTHWEST CORNER OF SAID LOT 25; THENCE NORTH 10°10'24" WEST ALONG THE WESTLINE OF SAID LOTS 25 AND 24 A DISTANCE OF 50.00 FEET; THENCE NORTH 79°51'00" EAST 4.99 FEET; THENCE SOUTH 09°37'23" EAST 50.00 FEET TO A POINT ON THE SOUTH LINE OF SAID LOT 25 THAT IS NORTH 75°11'00" EAST 4.51 FEET FROM THE SOUTHWEST CORNER OF SAID LOT 25; THENCE SOUTH 79°51'00" WEST 4.51 FEET TO THE SOUTHWEST CORNER OF SAID LOT 25 AND THE POINT OF BEGINNING PURSUANT TO STIPULATED ORDER FILED MAY 7, 2024 UNDER KING COUNTY CASE NUMBER 23-2-02297-1 SEA, RECORDED UNDER KING COUNTY RECORDING NUMBER 2024050900143, RECORDS OF THE KING COUNTY SUPERIOR COURT OF THE STATE OF WASHINGTON; SITUATE IN THE COUNTY OF KING, STATE OF WASHINGTON.

**BASIS OF BEARINGS**

RECORD OF SURVEY AS RECORDED UNDER KING COUNTY RECORDING NUMBER 2024052190001

**PROJECT INFORMATION**

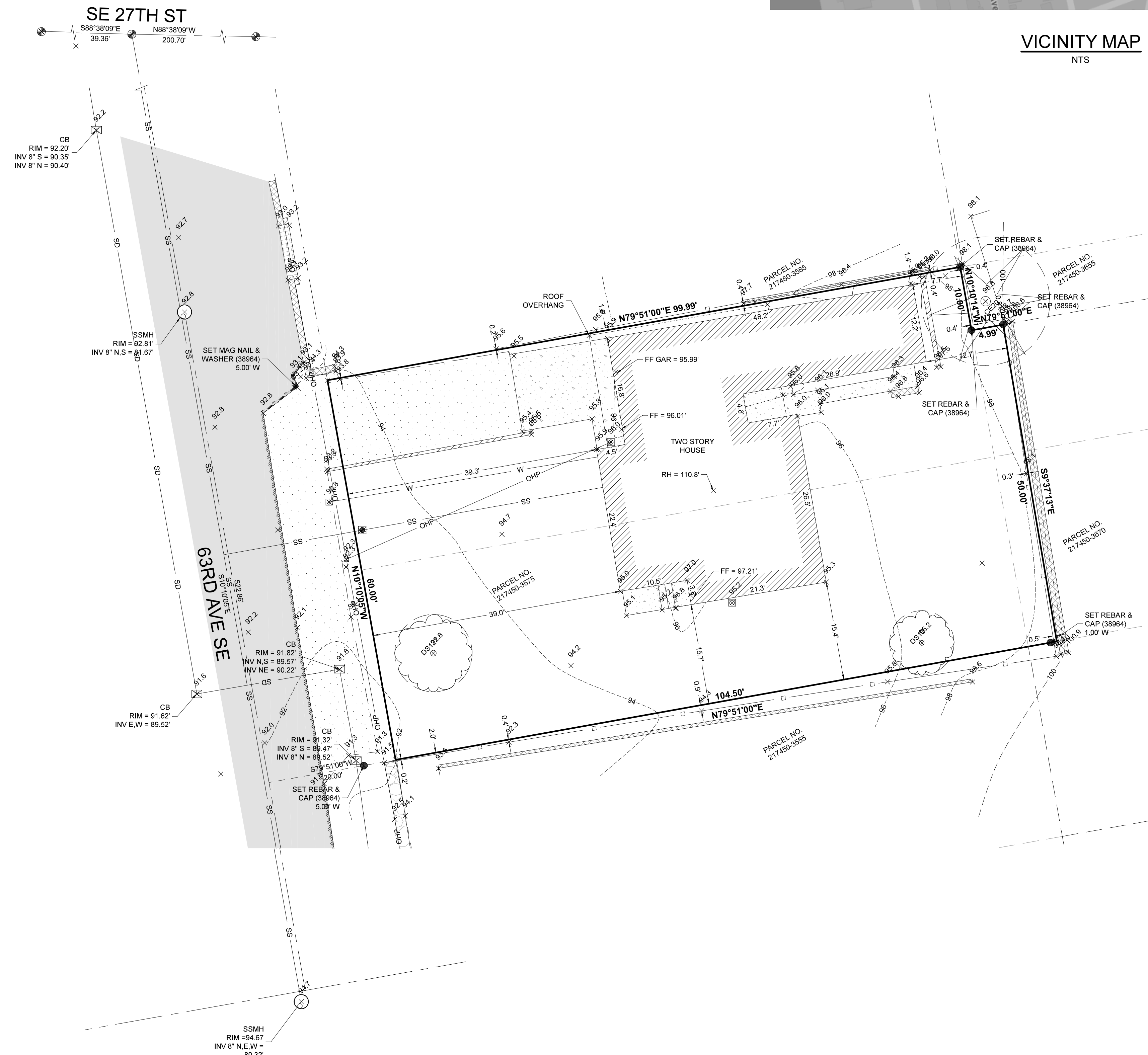
PROPERTY OWNER: FARHAD AND VIRGINIA IMANI  
2728 63RD AVE SE  
MERCER ISLAND, WA 98040  
TAX PARCEL NUMBER: 217450-3575  
PROJECT ADDRESS: 2728 63RD AVE SE  
MERCER ISLAND, WA 98040  
ZONING: R-8.4  
JURISDICTION: CITY OF MERCER ISLAND  
PARCEL ACREAGE: 6.237 S.F. (0.143 ACRES) AS SURVEYED

**GENERAL NOTES**

- 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.
- INSTRUMENTATION FOR THIS SURVEY WAS A 3-SECOND SPECTRAPRECISION FOCUS 35 TOTAL STATION AND AN EMLID REACH RS2 GPS RECEIVER. PROCEDURES USED IN THIS SURVEY MEET OR EXCEED STANDARDS SET BY WAC 332-130-090.
- THE INFORMATION ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE IN OCTOBER 2024 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
- 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.
- ALL MONUMENTS WERE LOCATED DURING THIS SURVEY UNLESS OTHERWISE NOTED.

**VERTICAL DATUM & CONTOUR INTERVAL**

ELEVATIONS SHOWN ON THIS DRAWING WERE DERIVED FROM GPS OBSERVATION USING THE WSRN.  
DATUM - 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.



VICINITY MAP  
NTS

NE 1/4, NE 1/4, SEC 11, TWP 24N, RNG 4E, W.M.



DATE	REVISION	DRN

**TOPOGRAPHIC SURVEY**

FARHAD & VIRGINIA IMANI  
2728 63RD AVE SE  
MERCER ISLAND, WA 98040

PROJECT NO. 24-559

DRAWN BY: EFJ  
CHECKED BY: TNW  
DATE: 10/16/2024

SHEET 1 OF 1