

VICINITY MAP NTS

ASIN 5.49 3.81 3.81

FIRE MARSHAL REQUIREMENTS

- 1. Installation of an NFPA 72 "Chapter 29" Monitored Fire Alarm System – Separate FIRE permit required
- 2. Installation of an NFPA 13R Fire Sprinkler System – Separate FIRE permit required.

LOT SLOPE

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

F.A.R. CALCULATION

Main Floor FA= 2104.5 sf (inc. gar) ADU Floor FA (lower floor) = 738 sf Lower Floor Primary FA = 1439 sf Upper Floor FA = 2017 sf 6298.5 sf total

excepted FA = (-1655.7 sf)stairs = $(74 \text{ sf x}^2) = 148 \text{ sf}$

TOTAL chargeable GFA = 4494.8 sf w/adu = 4500 sf limit4494.8 / 11,200 = 40.1%

Code Data

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

LOT COVERAGE (SHADED AREA)

House Roof to eaves = 2717.2 sf covered porches/decks = 207 sf driveway (shaded) = 614 sf TOTAL = 3538.2 sfallowable = $11,200 \times .35 = 3,920 \text{ sf}$

amount available for hardscape = 381.8 sf

A. SITE PLAN

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

HARDSCAPE (DOTTED AREA)

DECKS = 448.3 sfWALKS = 62.6 sfRETAINING WALLS = 7 sf TOTAL = 517.9 sfallowable = $11,200 \times .09 = 1008 \text{ sf}$ extra lot cov. = 381.8 TOTAL allow. = 1389.8 sf

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

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

Civil Engineer

Nick Bossoff 191 NE Tari Lane Stevenson WA 98648 425.881.5904

GALLAGHE OPEN SPA

Geotechnical Engineer

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

Structural Engineer

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

Contractor

Mike Yeganeh Aspen Homes NW (206) 799-3016

Project Description

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

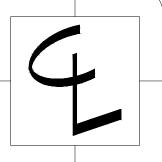
Parcel Number/Legal

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

Owner

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

Geotechnical recommendations do not support wet weather foundation construction.



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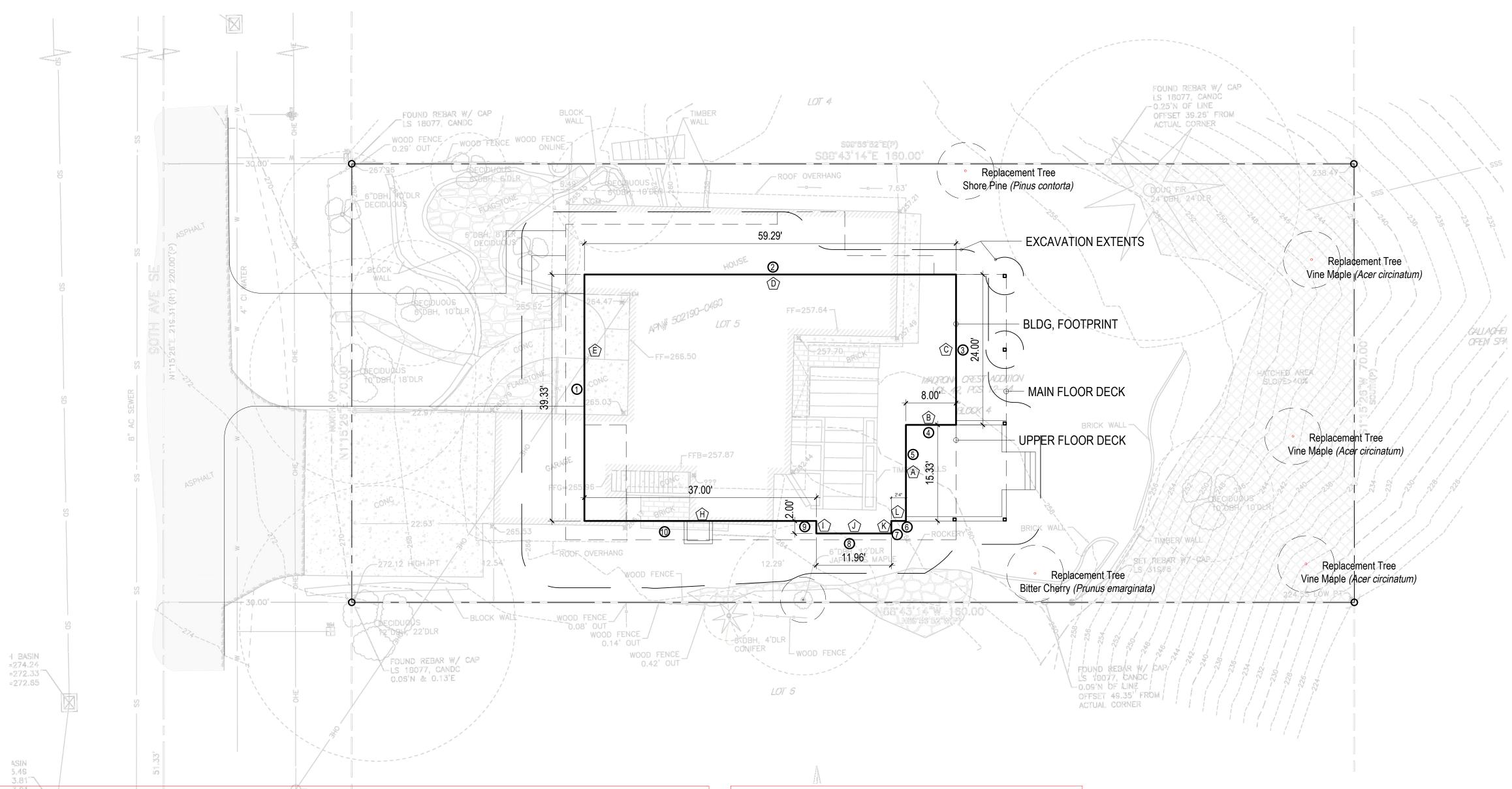
Island ithila Mercer I $\sum_{i=1}^{N} \mathbf{E}_{i}$ 90th 3632

CONTENTS

Site Plan

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BASEMENT AREA F.A. EXCEPTION CALCULATION

segment	length	beginning	end	begin cov	end cover	avg cover	%cover	wtd
		elev.	elev.					
а	15.33	262	256	6.00	0.00	3	39.0%	5.97
b	8	256	258.7	0.00	2.70	1.35	17.5%	1.40
С	24	258.7	257.5	2.70	1.50	2.1	27.3%	6.55
d	59.29	257.5	265.5	1.50	9.50	5.5	71.4%	42.35
е	39.33	265.5	265.5	9.50	9.50	9.5	100.0%	48.52
h	37	percentag	e determir	ned graphic	ally, see A	-05	77.4%	32.63
i	2	263.5	263.5	7.50	7.50	7.5	88.2%	1.76
j	11.96	263.5	262	7.50	6.00	6.75	87.7%	10.48
k	2	262	262	6.00	6.00	6	77.9%	1.56
l	2.33	262	262	6.00	6.00	6	77.9%	1.82

201.24 153.05 76.1% avg.

raw FAR 2177

basement slab elev = 8.5 ft (fin. clg.) full cover =

1655.697 excepted area =

BOLD elevations are lower than existing grade

segment is footprint on the ground or projected overhanging living space

ELEVATION CALC.

	EL @ MIDPOINT	segment	wtd sgmnt
		(ft)	
1	265.50	39.33	10442.12
2	257.70	59.29	15279.03
3	257.50	24	6180.00
4	256.00	8	2048.00
5	256.00	15.33	3924.48
6	262.00	2.33	610.46
7	262.00	2	524.00
8	263.00	11.96	3145.48
9	263.00	2	526.00
10	265.00	37	9805.00
		201.24	52484.57

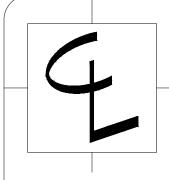
260.8058 AVG. EL = BOLD = NEW EL LOWER THAN EXIST all others exist = final

A. SUPPLEMENTAL SITE PLAN 1/10" = 1'-0"

(A) = WALL SEGMENT TAG FOR BASEMENT FAR EXCEPTION = WALL SEGMENT TAG FOR HEIGHT CALCULATION

---- = EAVE/ROOF LINE

= BUILDING FOOTPRINT (FOUNDATION EXTENTS)



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Site Plan

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A. AADU LOCATION DIAGRAM

1/10" = 1'-0"

----- = EAVE/ROOF LINE
------ = BUILDING FOOTPRINT (FOUNDATION EXTENTS)

ADU project narrative

An ADU attached to a new SFR as part of the new construction project (permit 2210-198) will include 738.0 sq. ft of living space, it will include a full kitchen with its own dishwasher, sink, oven, refrigerator, microwave and washer and dryer. There will be a separate entrance that connects by walkway to 90th ave SE. The ADU will include a living room and bedroom with an attached full bathroom. Heating control will be separate from the main house.

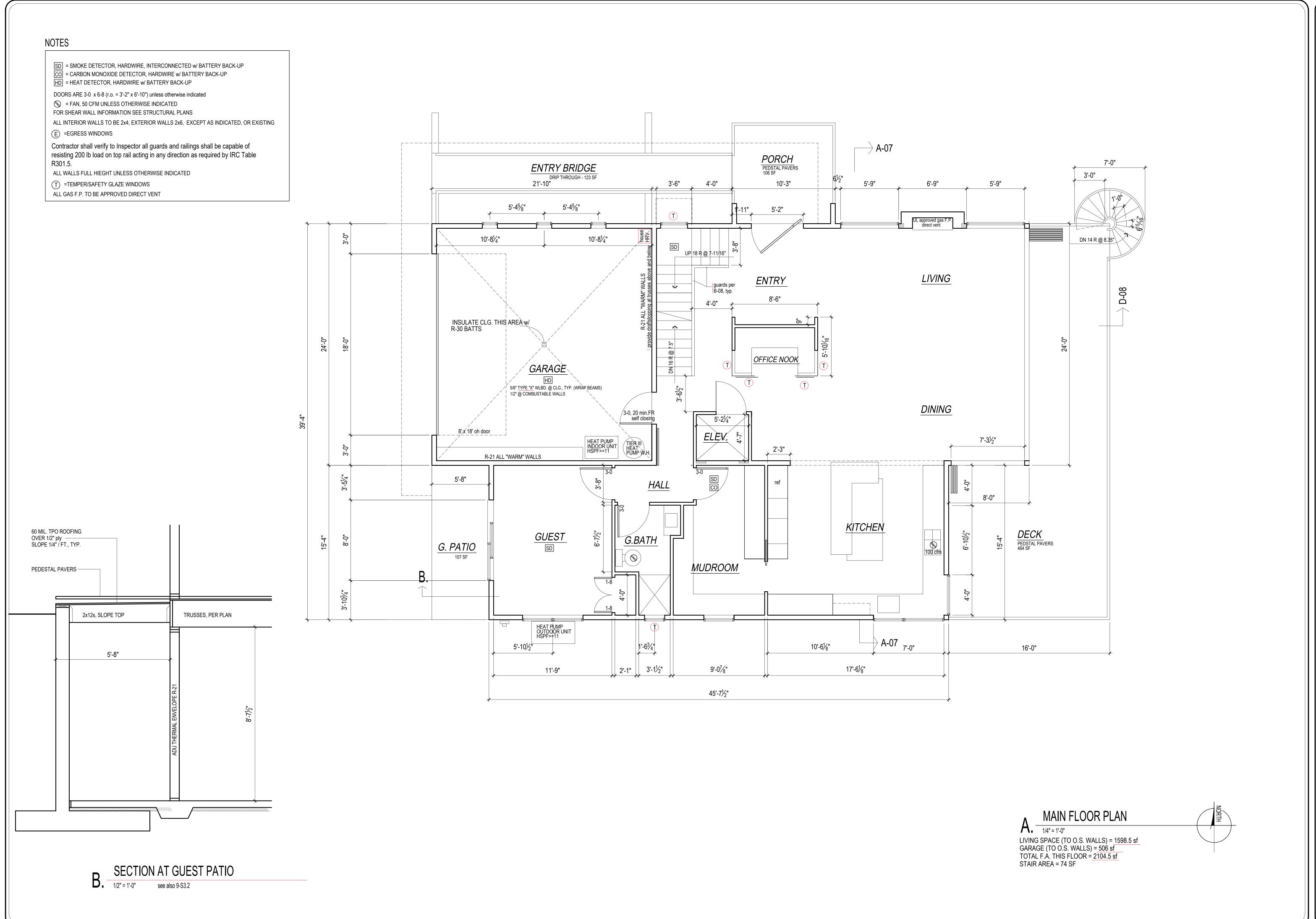
The ADU is within the size limits of 19.02.030 B4. The location meets 19.02.030 B5. The entrance of the ADU meets 19.02.030 B6 Parking for the ADU meets 19.02.030 B9

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

ADU Site Plan

CRL DATE

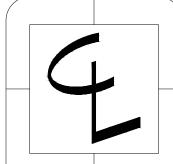
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REGISTERED
ARCHITECT

CHRIS LUTHI
STATE OF WASHINGTON



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CONTENTS

Main Floor

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02

SD = SMOKE DETECTOR, HARDWIRE, INTERCONNECTED w/ BATTERY BACK-UP
CO = CARBON MONOXIDE DETECTOR, HARDWIRE w/ BATTERY BACK-UP

HD = HEAT DETECTOR, HARDWIRE w/ BATTERY BACK-UP

DOORS ARE 3-0 x 6-8 (r.o. = 3'-2" x 6'-10") unless otherwise indicated

= FAN, 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

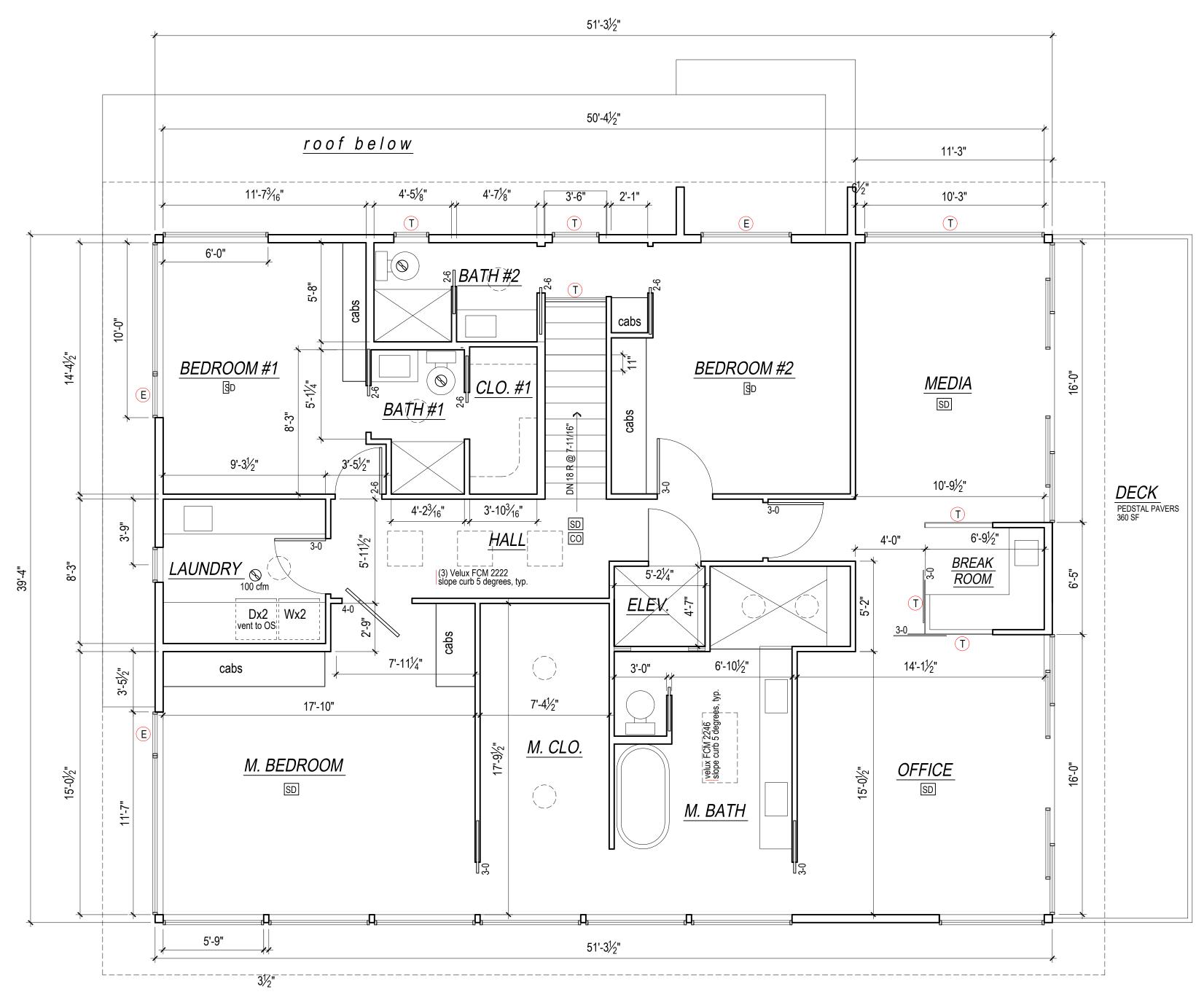
(E) =EGRESS WINDOWS

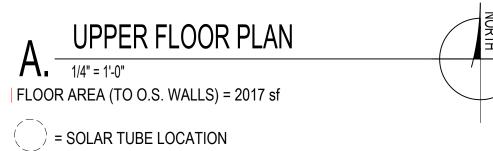
Contractor shall verify to Inspector all guards and railings shall be capable of resisting 200 lb load on top rail acting in any direction as required by IRC Table

ALL WALLS FULL HIEGHT UNLESS OTHERWISE INDICATED

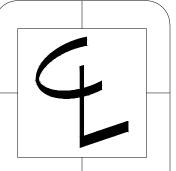
(T) =TEMPER/SAFETY GLAZE WINDOWS

ALL GAS F.P. TO BE APPROVED DIRECT VENT









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CONTENTS
Upper Floor

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10.20.22 4.28.23 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

FOR SHEAR WALL INFORMATION SEE STRUCTURAL PLANS

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ALL WALLS FULL HIEGHT UNLESS OTHERWISE INDICATED

(T) =TEMPER/SAFETY GLAZE WINDOWS

ALL GAS F.P. TO BE APPROVED DIRECT VENT

FOAM INSULATION NOTES

Closed cell spray foam directly applied to underside of sheathing (min R-10) + batts to = r-49 (R-38 min. @ vaulted areas)

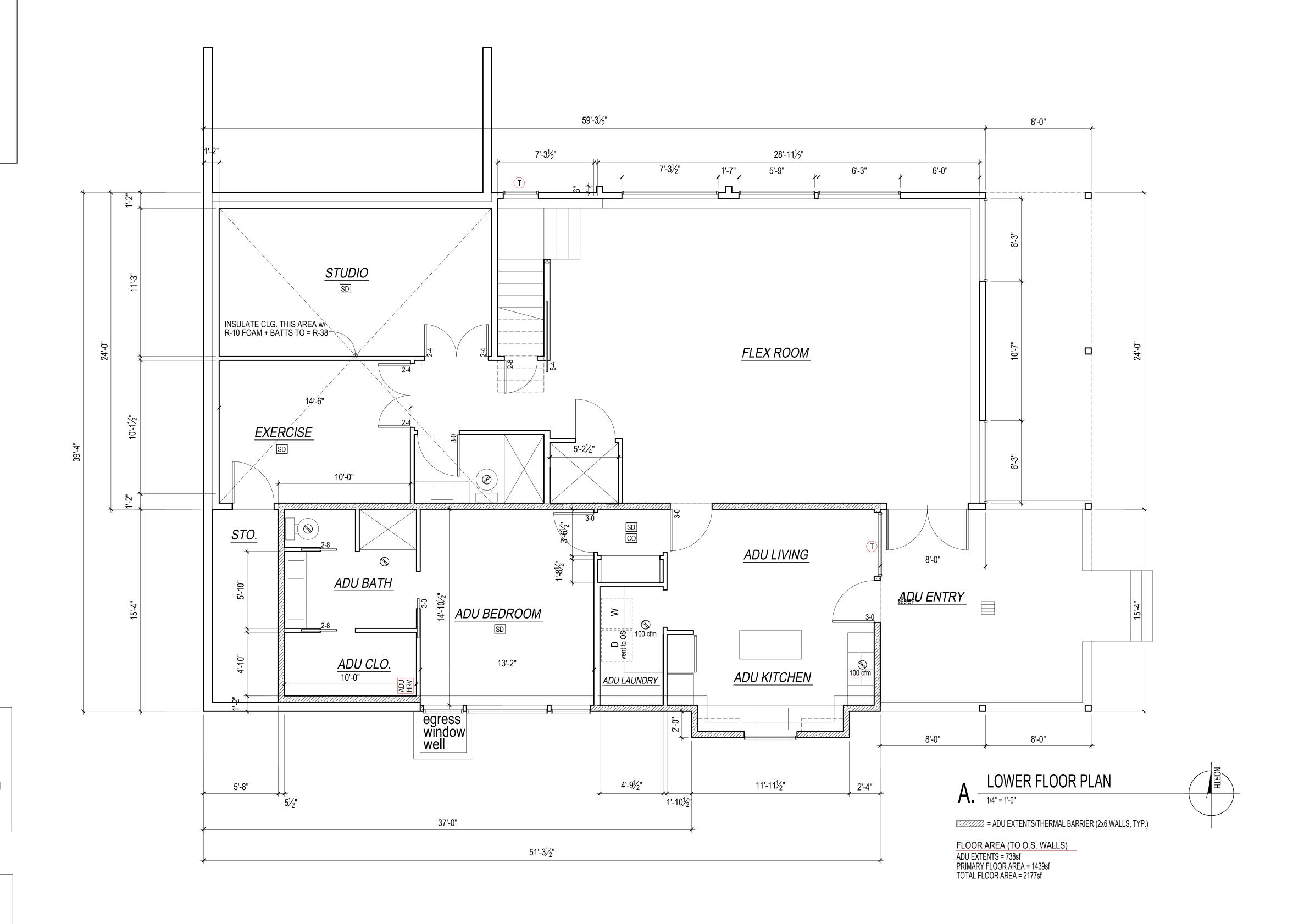
Spray foam product to be "Spraytite 178" as manufactured by BASF (ESR-2642), or equal.

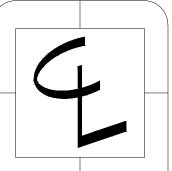
Spray foam insulation shall be installed per IRC 806.5.1.3.
A copy of the ICC ESR report for the product used must be provided on the job site for field inspector verification
The applied spray foam must be installed by a certified installer.

ADU CLG. SOUND/FIRE REQUIREMENTS

Provide sound insulation (STC rating of at least 45 & ICC rating of at least 50) and 1 hr fire resistance in the entire ADU ceiling (including under stairs) . See ESR-1153 Assembly B. Requirements:

- 1. 48/24 tongue-and-groove span rated sheathing (Exposure 1).
- 1. Two layers of 1/2 inch thick Type X gypsum board.
- 2. TJI Joist.
- 3. Optional minimum 3-1/2 inch thick glass fiber insulation or non-combustible insulation that is rated R-30 or less, with resilient channels





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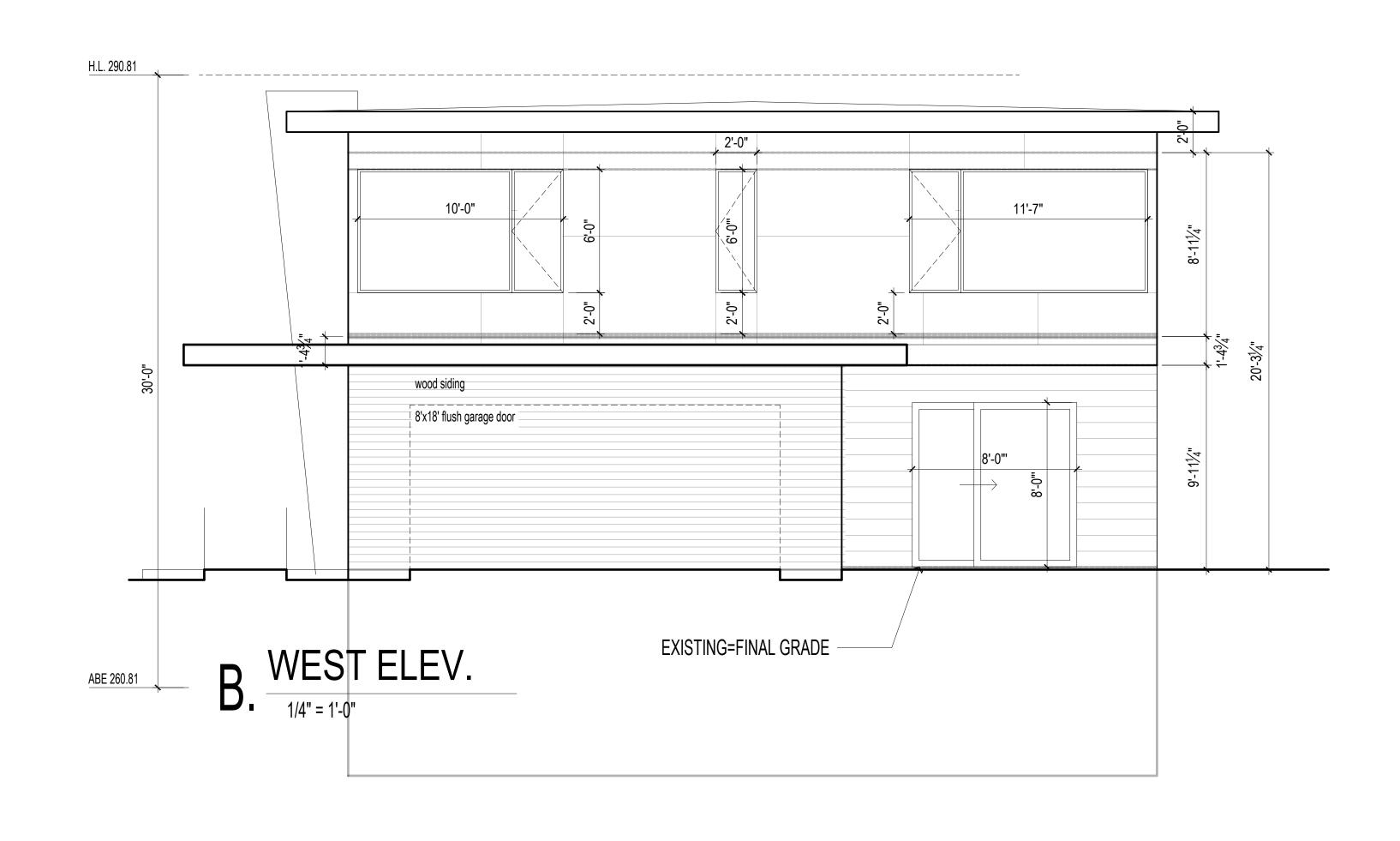
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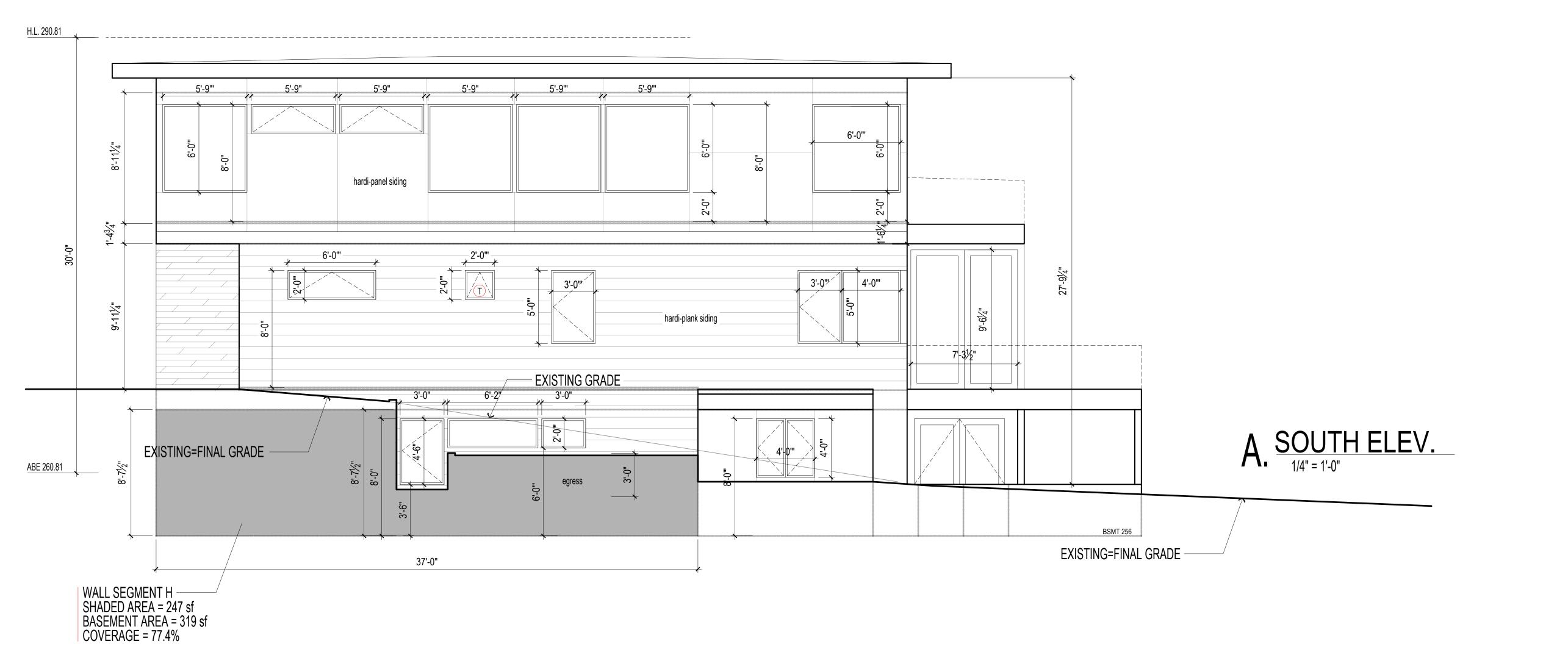
90th

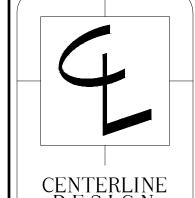
CONTENTS Lower Floor

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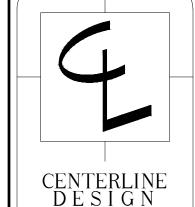
90th 3632

CONTENTS Elevations

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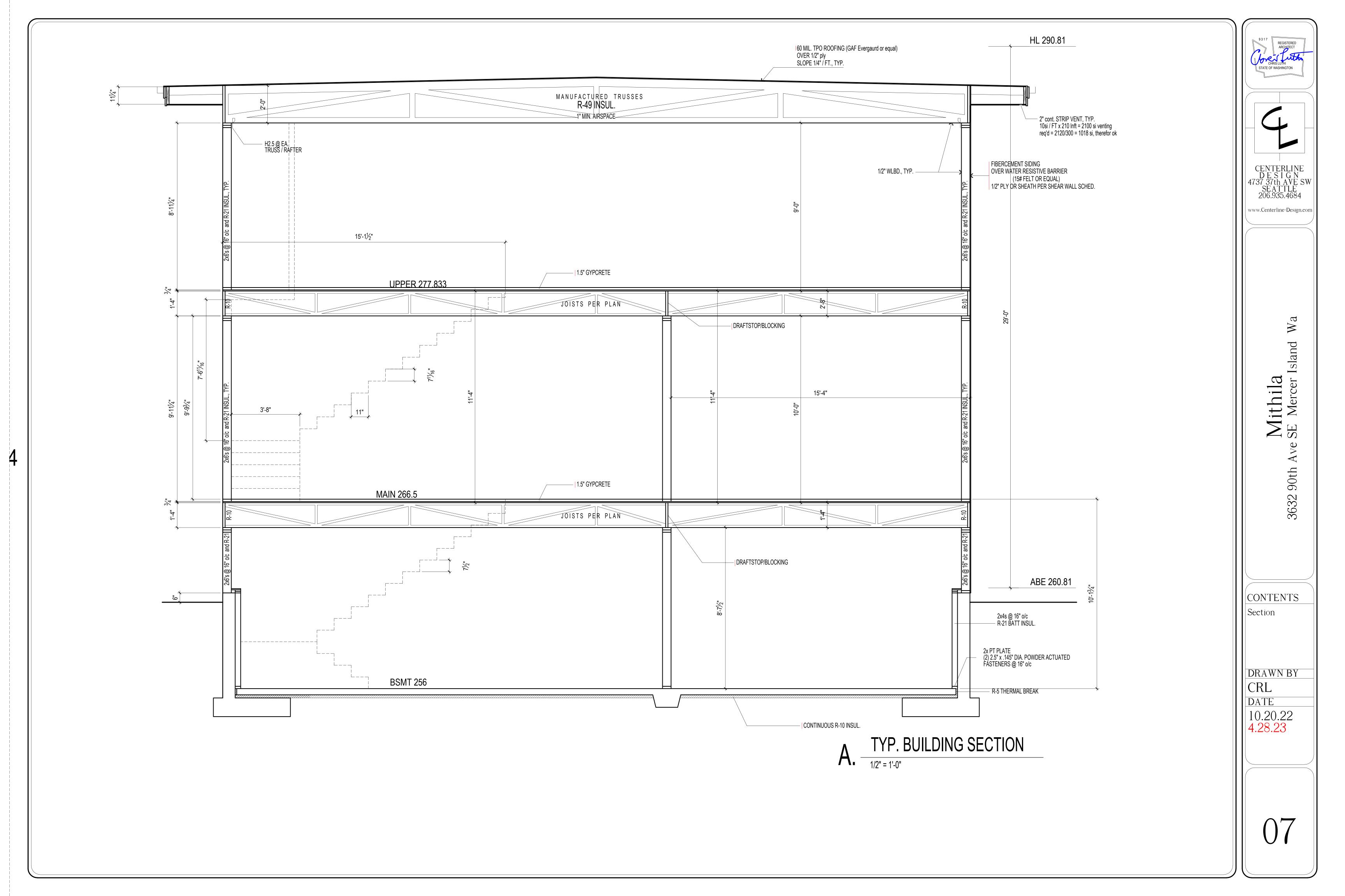
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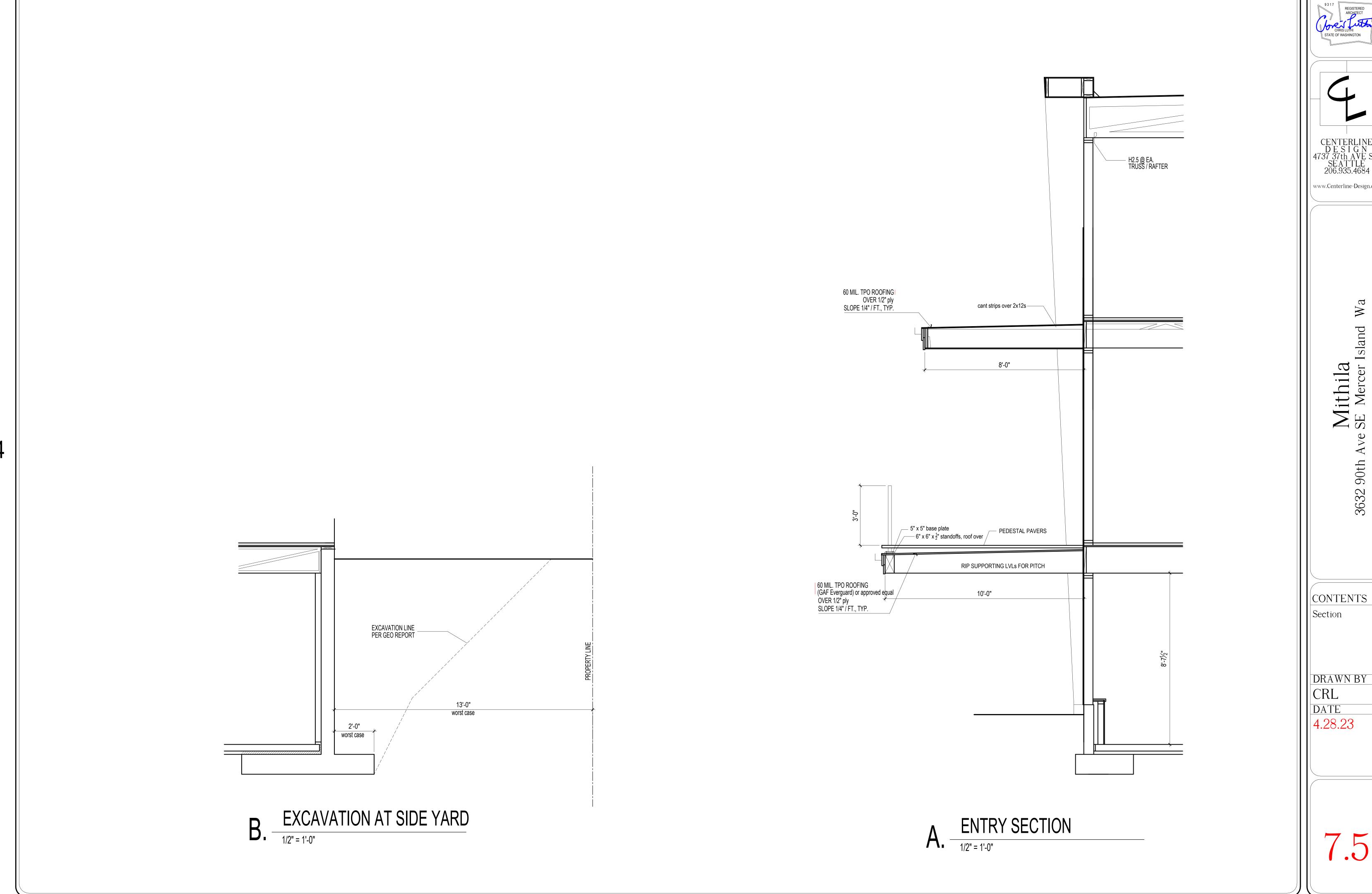
CONTENTS
Elevations

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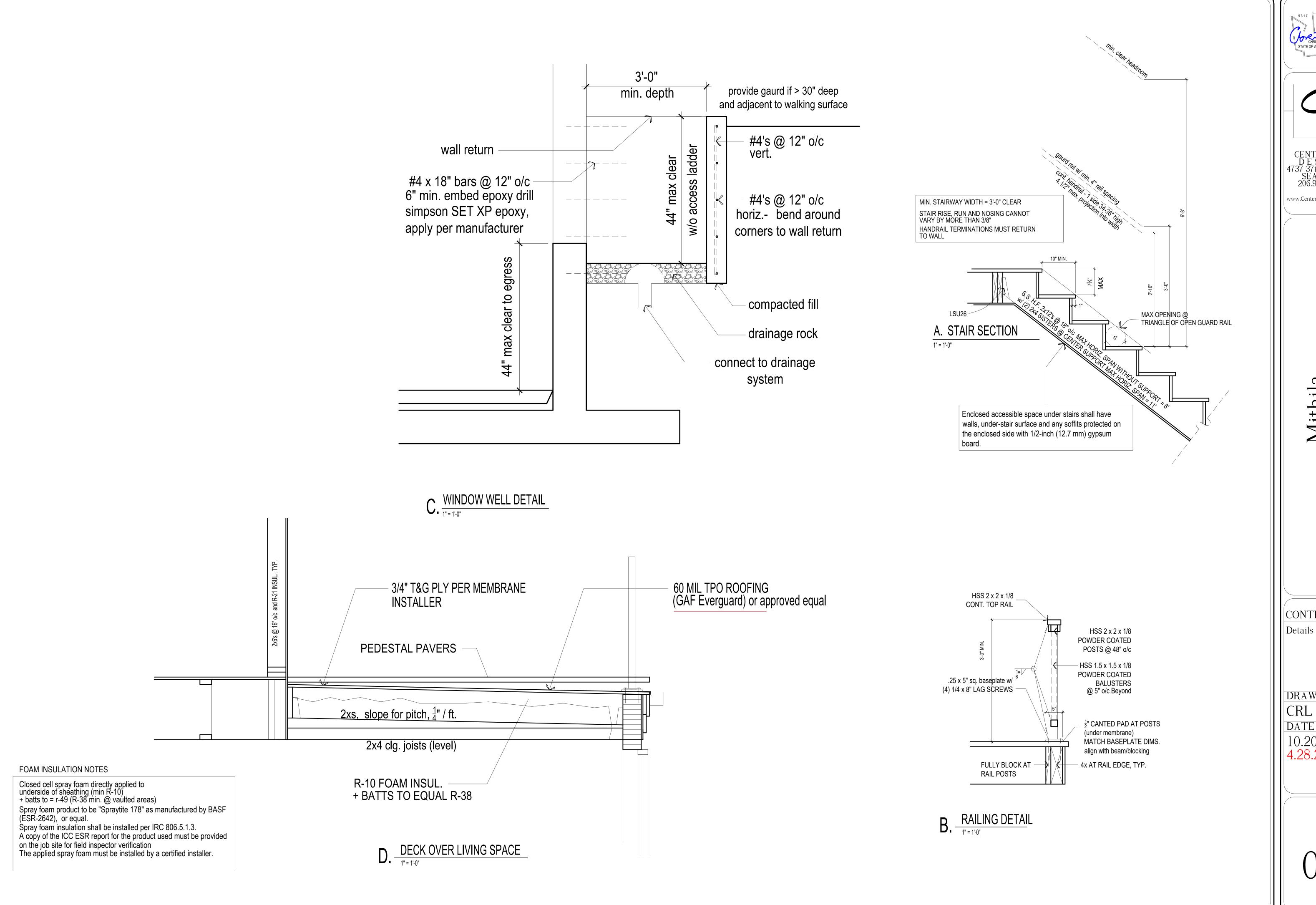
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Energy Code Info - Primary

2018 WA STATE PRESCRIPTIVE PATH OVER 5000 SF HEATED SPACE - 7 CREDITS REQ.

energy credit option credit value summary

1.7	0.5	ins. over wall, .28 windows
2	1	heat pump
2.2	1	2.0 ACH + HRV
3.5	1.5	central HP, HSPF>=11
4.1	0.5	AH in heated space
5.5	2	elec. HP WH
7.1	0.5	appliance package

total credits

PRIMARY RESIDENCE HVAC NOTES

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

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

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

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

	All Climate Zones (Table R402.1.1)		
	R-Value ^a	U-Factor ^a	
Fenestration U-Factor ^b	n/a	>9.30 <.28 (primary only) .3	30 OK A
Skylight U-Factor ^b	n/a	0.50	
Glazed Fenestration SHGC b,e	n/a	n/a	
Ceiling ^e	49	0.026	
Wood Frame Wall ^{g,h}	21 int	0.056	
Floor	30	0.029	
Below Grade Wall ^{c,h}	10/15/21 int + TB	0.042	
Slab ^{d,f} R-Value & Depth	10, 2 ft	n/a	

R-values are minimums. *U*-factors and SHGC are maximums. When insulation is installed in a cavity that is less than the label or design thickness of the insulation, the compressed R-value of the insulation from Appendix Table A101.4 shall not be less than the R-value specified in the table.

b The fenestration *U*-factor column excludes skylights.

"10/15/21 +5TB" means R-10 continuous insulation on the exterior of the wall, or R-15 continuous insulation on the interior of the wall, or R-21 cavity insulation plus a thermal break between the slab and the basement wall at

- the interior of the basement wall. "10/15/21 +5TB" shall be permitted to be met with R-13 cavity insulation on the interior of the basement wall plus R-5 continuous insulation on the interior or exterior of the wall. "5TB" means R-5 thermal break between floor slab and basement wall.
- d R-10 continuous insulation is required under heated slab on grade floors. See Section R402.2.9.1.
- For single rafter- or joist-vaulted ceilings, the insulation may be reduced to R-38 if the full insulation depth extends over the top plate of the exterior wall.
- R-7.5 continuous insulation installed over an existing slab is deemed to be equivalent to the required perimeter slab insulation when applied to existing slabs complying with Section R503.1.1. If foam plastic is used, it shall meet the requirements for thermal barriers protecting foam plastics.
- For log structures developed in compliance with Standard ICC 400, log walls shall meet the requirements for
- g climate zone 5 of ICC 400.

insulation.

Int. (intermediate framing) denotes framing and insulation as described in Section A103.2.2 including standard h framing 16 inches on center, 78% of the wall cavity insulated and headers insulated with a minimum of R-10

Energy Code Info - AADU

2018 WA STATE PRESCRIPTIVE PATH LESS THAN 1500 SF HEATED SPACE - 3 CREDITS REQ.

energy credit option credit value summary

2	1	heat pump
3.6	2	mini-split

total credits

AADU RESIDENCE HVAC NOTES

MINI-SPLIT HEAT PUMP (HSPF>10.0)
HEAT RECOVERY VENTILATION (separate from house HRV system)
REQUIRED VENTING = CONTINUOUS 120CFM
SET TO OPERATE AT 240 CFM FOR 2 HOURS IN EA. 4 HR PERIOD (50%)
PROVIDED BY VARIABLE SPEED HIGH EFF. FAN (MAX .35 WATTS/CFM)
CONTOLLED TO OPERATE AT LOW SPEED IN VENTILATION
MODE ONLY.

ENERGY CREDIT DESCRIPTIONS

1.7

Advanced framing and raised heel trusses or rafters Vertical Glazing U-0.28

R-49 Advanced (U-0.020) as listed in Section A102.2.1, Ceilings below a vented attic and R-49 vaulted ceilings with full height of uncompressed insulation extending over the wall top plate at the eaves.

2.2

Compliance based on Section R402.4.1.2: Reduce the tested air leakage to 2.0 air changes per hour at maximum 50 Pascals or

For R-2 Occupancies, optional compliance based on Section R402.4.1.2: Reduce the tested air leakage to 0.25 cfm/sf maximum at 50 Pascals and

All whole house ventilation requirements as determined by Section M1507.3 of the International Residential Code or Section 403.8 of the International Mechanical Code shall be met with a heat recovery ventilation system with minimum sensible heat recovery efficiency of 0.65.

3.5

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

4.1

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

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

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

5.5

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

7.1

All of the following appliances shall be new and installed in the dwelling unit and shall meet the following standards:

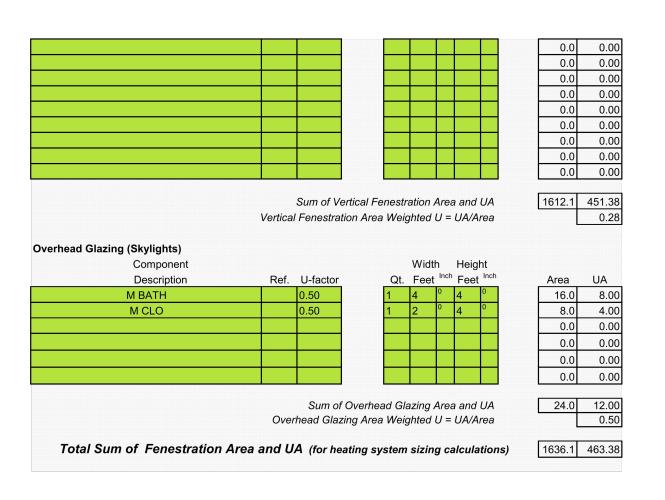
Dishwasher Energy Star rated Refrigerator (if provided) Energy Star rated

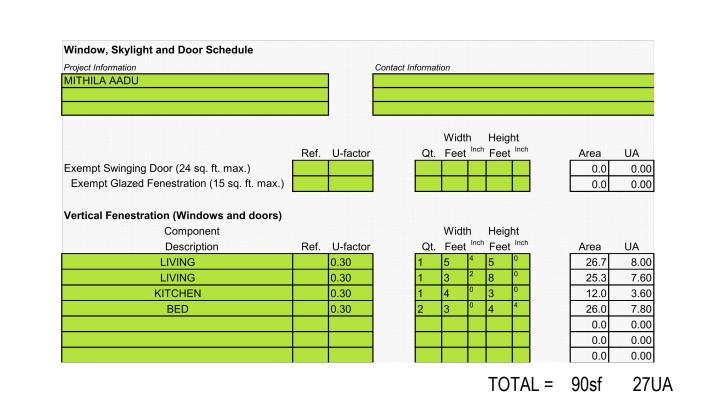
Washing machine Energy Star rated

Dryer Energy Star rated, ventless dryer with minimum CEF rating of 5.2

To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall show the appliance type and provide documentation of Energy Star compliance. At the time of inspection, all appliances shall be installed and connected to utilities. Dryer ducts and exterior dryer vent caps are not permitted to be installed in the dwelling unit.

MITHILA PRIMARY									
				\A(:-1)					
	Ref.	U-factor	Ot	Widt Feet		Heig		Aroo	UA
Exempt Swinging Door (24 sq. ft. max.)	Nei.	U-lactor	Qi.	l	П	ree		Area 0.0	0.00
Exempt Glazed Fenestration (15 sq. ft. max.)								0.0	0.00
Vertical Fenestration (Windows and doors)									
Component				Widt	th	Heig	ıht		
Description	Ref.	U-factor	Qt.	Feet				Area	UA
ENTRY	11011	0.28	1	5	0	9	0	45.0	12.60
LR		0.28	2	6	3	8	9	109.4	30.63
LR		0.28	1	9	9	23	1	225.1	63.02
LR		0.28	1	9	9	8	3.5	80.8	22.64
KITCHEN		0.28	2	4	0	5	0	40.0	11.20
KITCHEN		0.28	1	8	0	5	0	40.0	11.20
MUD		0.28	1	3	0	5	0	15.0	4.20
G BATH		0.28	1	2	0	2	0	4.0	1.12
G BED		0.28	1	6	0	2	0	12.0	3.30
G BED		0.28	1	8	0	8	0	64.0	17.92
GAR DOOR		0.28	1	3	2	8	0	25.3	7.09
STAIR		0.28	1	2	8	15	10	42.2	11.82
BATH 2		0.28	1	2	0	6	0	12.0	3.36
BED 1		0.28	1	6	0	6	0	36.0	10.08
BED 1		0.28	1	10	0	6	0	60.0	16.80
LAUNDRY		0.28	1	2	0	6	0	12.0	3.30
M BED		0.28	1	12	0	6	0	72.0	20.16
M BED		0.28	1	6	0	6	0	36.0	10.08
M BATH		0.28	5	6	0	2	0	60.0	16.80
OFFICE		0.28	1	6	0	7	0	42.0	11.70
OFFICE		0.28	1	16	0	8	0	128.0	35.8
MEDIA		0.28	1	16	0	8	0	128.0	35.8
MEDIA		0.28	1	10	3	7	0	71.8	20.09
BED2		0.28	1	5	0	5	0	25.0	7.00
STAIR		0.28	1	2	8	5	5	14.4	4.04
FLEX		0.28	1	7	9.5	5	0	39.0	10.9
FLEX		0.28	1	6	0	5	0	30.0	8.40
FLEX		0.28	3	6	3	5	0	93.8	26.2
FLEX		0.28	1	6	2	8	0	49.3	13.8
								0.0	0.00
								0.0	0.00
								0.0	0.00
								0.0	0.00





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REGISTERED
ARCHITECT

CHRIS LUTHI
STATE OF WASHINGTON

Mithila 3632 90th Ave SE Mercer Island W

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Energy Info

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79

General Structural Notes (GSN's)

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

2. DESIGN LOADING CRITERIA

EGIGIT EGYBITG GITTERIN
RISK CATEGORY SBC TABLE 1604.5
ROOF SNOW LOAD
+ 5 PSF RAIN ON SNOW SURCHARGE
ROOF DEAD LOAD
LIVE LOAD
DECK LIVE LOAD

minumi

 $S_S = 1.408$, $S_1 = 0.490$, $S_{DS} = 0.939$, $S_{D1} = 0.591$ LIGHT FRAME (WOOD) WALLS AND ROOFS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR

COMPONENTS & CLADDING -35.5/-21.3 PSF MAX. AT WALLS (LRFD/ASD) -60.0/-36.0 GROSS UPLIFT AT ROOF (LRFD/ASD) WIND PRESSURES BASED ON LESS THAN 10 SQUARE FOOT TRIBUTARY 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.

- 3. 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.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE WORK.
- 6. 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.
- 7. ALL STRUCTURAL SYSTEMS COMPOSED OF COMPONENTS TO BE FIELD ERECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLIER.
- 8. SEISMIC BRACING AND/OR GRAVITY SUPPORT AND ANCHORAGE OF ALL MECHANICAL OR ELECTRICAL EQUIPMENT SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON, EXCEPT FOR ELEMENTS SPECIFICALLY SHOWN AND DETAILED ON THE STRUCTURAL DRAWINGS. 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.
- 9. SHOP DRAWING REVIEW: SHOP DRAWINGS FOR TRUSSES SHALL BE SUBMITTED TO THE CONTRACTOR, ARCHITECT, AND ENGINEER OF RECORD FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS. DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD, AND THEREFORE MUST BE VERIFIED BY THE CONTRACTOR. 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.
- 10. DEFERRED SUBMITTALS SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF WASHINGTON. THE COMPONENT DESIGNER SHALL BE A REGISTERED STRUCTURAL ENGINEER IF REQUIRED BY THE BUILDING OFFICIAL OF THE LOCAL JURISDICTION. 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: CONNECTOR PLATE WOOD TRUSSES

<u>OTECHNICAL:</u> FOUNDATION NOTES: SUBGRADE PREPARATION INCLUDING DRAINAGE, EXCAVATION, COMPACTION, AND FILLING REQUIREMENTS, SHALL CONFORM STRICTLY WITH THE RECOMMENDATIONS GIVEN IN THE GEOTECHNICAL REPORT REFERENCED BELOW, THE SPECIFICATIONS, OR AS DIRECTED BY THE OWNER APPOINTED GEOTECHNICAL ENGINEER. FOOTINGS SHALL BEAR ON COMPETENT UNDISTURBED NATIVE SOILS OR STRUCTURAL FILL THAT IS PLACED ON COMPETENT NATIVE SOILS. EXTERIOR FOOTINGS AND FOOTINGS IN UNHEATED AREAS SHALL BEAR AT LEAST 18" BELOW ADJACENT EXTERIOR GRADE; AND AT LEAST 12 BELOW TOP OF FLOOR SLAB AT INTERIOR FOOTINGS. THE OWNER APPOINTED GEOTECHNICAL ENGINEER SHALL APPROVE FOOTING EXCAVATION/PREPARATION PRIOR TO PLACEMENT OF ALL FOOTINGS. BACKFILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING, GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINAGE AS NOTED IN THE GEOTECHNICAL REPORT REFERENCED BELOW. THE SPECIFICATIONS, OR AS

1	DRAINAGE AS NOTED IN THE GEOTECHNICAL REPORT REFERENCED BELOW, THE ST	PECIFICATIONS, OF
	DIRECTED BY THE OWNER APPOINTED GEOTECHNICAL ENGINEER	
ĺ	ALLOWABLE SOIL PRESSURE	2,000 PSF
ĺ	LATERAL EARTH PRESSURE (UNRESTRAINED, LEVEL)	35 PCF
((RESTRAINED, LEVEL)	45 PCF
(SEISMIC SURCHARGE PRESSURE	9H, UNIFORM
	PASSIVE EARTH PRESSURE	350 PCF
(BASE COEFFICIENT OF FRICTION	0.35

GEOTECHNICAL REFERENCE: "Geotechnical Engineering Investigation; 3626 90th Ave SE; Mercer Island, WA; GEO Group Northwest, Inc.; Project No. G-5861; April 18, 2023"

13. 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: "TE SERIES" (0.157" DIAMETER) AS MANUFACTURED BY ITW RAMSET (ICC-ES NO. 1799); OR "X-U" (0.157" DIAMETER) AS MANUFACTURED BY HILTI, INC. (ICC-ES NO. 2269); OR "STRONG-TIE PDPA" (0.157" DIAMETER) AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC. (ICC-ES NO. 2138); OR "CSI 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.

14. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH ACI 318-14 CHAPTER 26 AND ACI 301. CONCRETE SHALL ATTAIN A 28-DAY STRENGTH OF I'C = 2,500 PSI. THE CONTRACTOR SHALL USE 5-1/2 SACK 2500 PSI CONCRETE MIXES PER CODE ALTERNATE R402.2 IN THE SEATTLE RESIDENTIAL CODE. IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE SECTION 1904.2, 5-1/2 SACK 2500 PSI CONCRETE MIXES ARE EQUIVALENT TO 3000 PSI CONCRETE FOR WEATHERING POTENTIAL. IN ADDITION, AIR-ENTRAINMENT IS NOT REQUIRED TO ADDRESS WEATHERING.

- 15. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, fy = 60,000 PSI. GRADE 60 REINFORCING BARS WHICH ARE TO BE WELDED SHALL CONFORM TO ASTM A706. REINFORCEMENT 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.
- 16. REINFORCING STEEL SHALL BE DETAILED (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH ACI 315-99 AND 318-14. LAP ALL CONTINUOUS REINFORCEMENT IN ACCORDANCE WITH "REINFORCEMENT SPLICE AND DEVELOPMENT LENGTH SCHEDULE" OF 10/S3.1. PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 12" AT SIDES AND FNDS. NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS. OTHERWISE NOTED ON THE DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
- 17. CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS: FOOTINGS AND OTHER UNFORMED SURFACES FORMED SURFACES EXPOSED TO EARTH
- 18. 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.
- 19. 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 REQUIRE	D SPE	CIAL	INSPECTION	IS
	AND TESTS OF CONCR	ETE CO	DNSTF	RUCTION	
REQUIRED?	VERIFICATION & INSPECTION	CONTINUOUS	PERIODIC	REF STD.	IBC REF.
N/A	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS AND VERIFY PLACEMENT.		Х	ACI 318 CH. 20, 25.2, 25.3, 26.5.1-26.5.3	1908.4
N/A	REINFORCING BAR WELDING: A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A 706. B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16": AND		X	AWSD1.4 ACI 318 26.5.4	
	C. INSPECT ALL OTHER WELDS	X	Х		
YES	3. INSPECT ANCHORS CAST IN CONCRETE.		Х	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 DEFINED IN 4.A	X	X	ACI 318: 17.8.2.4 ACI 318:17.8.2	
N*	5. VERIFY USE OF REQUIRED DESIGN MIX.		х	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
N*	6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	Х		ASTM C 172 ASTM C 31 ACI 318: 26.4.5, 26.12	1908.10
N*	7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	Х		ACI 318: 26.4.5	1908.6, 1908.7, 1908.8
N*	8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.		Х	ACI 318: 26.4.7-26.4.9	1908.9
N/A	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.		Х	ACI 318: CH. 26.8	
N*	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'L SLABS.		Х	ACI 318: 26.10.2	
N*	12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		Х	ACI318: 26.10.1(b)	

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

20. FRAMING LUMBER SHALL BE KILN DRIED OR MC-19, AND GRADED AND MARKED IN CONFORMANCE WITH W.C.L.I.B. STANDARD GRADING RULES FOR WEST COAST LUMBER NO. 17 OR W.W.P.A. WESTERN LUMBER GRADING RULES. FURNISH TO THE FOLLOWING MINIMUM STANDARDS: PLATES, LEDGERS & MISC. DOUGLAS FIR NO. 3 OR STUD GRADE

TENTES, LEDOLING & MIGO.	BOOOLING THE ING. O ON GOOD ONLINE	
LIGHT FRAMING:	MIN. BASIC DESIGN STRESS, $F_b = 525$ PSI, $E = 1400$ KSI	
	$F_c = 775 \text{ PSI}, F_t = 325 \text{ PSI}$	
JOISTS & RAFTERS:	DOUGLAS FIR NO. 2	
	MIN. BASIC DESIGN STRESS, $F_b = 900$ PSI, $E = 1600$ KSI	
	$F_c = 1350 \text{ PSI}, F_t = 575 \text{ PSI}$	
BEAMS:	DOUGLAS FIR NO. 1	
4x	MIN. BASIC DESIGN STRESS, $F_b = 1000$ PSI, $E = 1700$ KSI	
_	$F_c = 1500 \text{ PSI}, F_t = 675 \text{ PSI}$	
6x_	MIN. BASIC DESIGN STRESS, F _b = 1350 PSI, E = 1600 KSI	
O.N	$F_c = 925 \text{ PSI}, F_t = 675 \text{ PSI}$	
	70 020 1 31, 14 070 1 31	
COLUMNS:	DOUGLAS FIR NO. 1	
4x	MIN. BASIC DESIGN STRESS, $F_b = 1000$ PSI, $E = 1700$ KSI	
··· <u> </u>	$F_c = 1500 \text{ PSI}, F_t = 675 \text{ PSI}$	
6x_	MIN. BASIC DESIGN STRESS, $F_b = 1200$ PSI, $E = 1600$ KSI	
0.	$F_c = 1000 \text{ PSI}, F_t = 825 \text{ PSI}$	
	1 c - 1000 1 31, 1 t - 023 1 31	

20. MANUFACTURED LUMBER SHALL BE AS MANUFACTURED BY TRUS JOIST OR APPROVED EQUAL. REQUESTS FOR APPROVAL AS EQUAL WILL REQUIRE SUBMITTAL OF ICC REPORT EQUIVALENT TO ESR-1387 FOR LAMINATED VENNER 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

21. 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 RADIUSED CAMBER OF 3,500 FT. UNLESS OTHERWISE NOTED.

SIMPLE SPAN BEAMS DOUGLAS FIR COMBINATION 24F-V4 $F_b = 2400 \text{ PSI}$; $F_v = 265 \text{ PSI}$; E = 1,800,000 PSIDOUGLAS FIR COMBINATION 24F-V8 CANTILE VERED BEAMS $F_b = 2400 \text{ PSI}$; $F_v = 265 \text{ PSI}$; E = 1,800,000 PSITHESE MEMBERS ARE NOTED AS '*' IN PLAN GLUED LAMINATED MEMBERS EXPOSED TO WEATHER OR MOISTURE SHALL BE

TREATED WITH A NON-CORROSIVE, APPROVED PRESERVATIVE.

ACCORDANCE WITH ANSI/TPI I-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 + 5 PSF, RAIN ON SNOW SURCHARGE BOTTOM CHORD LIVE LOAD TOP CHORD DEAD LOAD 15 PSF BOTTOM CHORD DEAD LOAD 5 PSF WIND UPLIFT (TOP CHORD) SEE NOTE#2 COMPONENTS & CLADDING ROOF LOADS <u>FLOOR TRUSSES</u>

40 PSF

0 PSF

20 PSF

5 PSF

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.

TOP CHORD LIVE LOAD

BOTTOM CHORD LIVE LOAD

BOTTOM CHORD DEAD LOAD

TOP CHORD DEAD LOAD

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 GIRDER 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.

- 24. 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 DOC PS 1-09, PS 2-10. OR APA PRP-108 PERFORMANCE STANDARDS AND POLICIES FOR STRUCTURAL USE PANELS. SEE DRAWINGS FOR THICKNESS, SPAN RATING, AND NAILING REQUIREMENTS.
- 25. AT NON-SHEAR WALL EXTERIOR WALLS, UNLESS OTHERWISE NOTED, WALL SHEATHING SHALL BE ½" (NOMINAL) WITH SPAN RATING OF 24%; WITH 8d @ 6" oc PANEL NAILING (APPLIES TO ALL SHEATHING PANEL EDGES); AND 8d @ 12" oc TO INTERMEDIATE FRAMING.
- 26. ALL PRESSURE-TREATED (P.T.) WOOD MEMBERS SPECIFIED ON THE DRAWINGS THAT OCCUR ABOVE GROUND AND CONTINUOUSLY PROTECTED FROM MOISTURE (INTERIOR LOCATIONS) SHALL BE PRESSURE-TREATED WITH DOT SODIUM BORATE (SBX) WITHOUT NoSIO2. AT LOCATIONS PERMANENTLY EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, WOOD MEMBERS SHALL BE PRESSURE-TREATED WITH ALKALINE COPPER QUAT (ACQ-C 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.
- 27. TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED N 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 (SBX) WITHOUT NaSIO2 SHALL BE MANUFACTURED FROM ZMAY 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.

- 28. WOOD FRAMING NOTES: THE FOLLOWING SHALL APPLY UNLESS OTHERWISE NOTED ON THE DRAWINGS: A. ALL WOOD FRAMING DETAILS SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE SBC. MINIMUM NAILING SHALL CONFORM TO SBC TABLE 2304.9.1 OR CURRENT ICC-ES REPORT NER-272. 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.
 - B. WALL FRAMING: TWO STUDS MINIMUM SHALL BE INSTALLED AT THE ENDS OF ALL WALLS, UNLESS NOTED OTHERWISE NOTED. INSTALL SOLID BLOCKING FOR WOOD COLUMN THROUGH FLOOR SPACES TO SUPPORTS BELOW. ALL STUD WALLS SHALL HAVE THEIR LOWER WOOD PLATES ATTACHED TO WOOD FRAMING BELOW WITH 16d NAILS @ 12" oc STAGGERED OR BOLTED TO CONCRETE WITH 5%" ANCHOR BOLTS @ 4'-0" oc PER SBC SECTION 2308.6 (EMBED 7"), UNLESS OTHERWISE NOTED. 3" x 3" x 0.229" PLATE WASHERS SHALL BE USED WITH ALL SILL PLATE ANCHOR BOLTS AND INSTALLED PER AF&PA SDPWS-2008 SECTION 4.3.6.4.3. INDIVIDUAL MEMBERS OF BUILT-UP STUD POSTS SHALL BE NAILED TO EACH OTHER WITH 16d @ 12" oc STAGGERED.
 - C. FLOOR AND ROOF FRAMING: INSTALL SOLID BLOCKING AT ALL BEARING POINTS. TOENAIL JOISTS TO SUPPORTS WITH (2)16d NAILS. ATTACH TIMBER JOISTS TO FLUSH HEADERS OR BEAMS WITH SIMPSON METAL JOIST HANGERS IN ACCORDANCE WITH NOTES ABOVE. NAIL ALL MULTI-JOIST BEAMS TOGETHER WITH 16d@12"oc STAGGERED. ROOF 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 ALLOW 1/2" SPACING AT ALL PANEL EDGES AND ENDS OF LOOR 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) CS16 STRAP AT EACH END ATTACHED TO DECK JOISTS AND TO A SOLID BLOCKING MEMBER WITHIN THE
 - D. <u>NAILING</u>: A MINIMUM NAIL DIAMETER AND LENGTH SHALL BE AS FOLLOWS:

	NAIL SIZE ON DRAWINGS	<u>DIAMETER x LENGT</u>
SHEATHING NAILS	8d	0.131" x 2½"
	10d	0.148" x 2½"
FRAMING NAILS	10d	0.148" x 3"
	16d	0.148" v 3½"

Minimum Connectors and Fasteners for Wood Members per IBC 2018

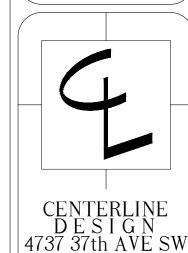
	DESCRIPTION OF BUILDING ELEMENT	NUMBER AND TYPE OF FASTENERS ROOF	SPACING & LOCATION
1.	BLOCKING BETWEEN CEILING JOISTS, RAFTERS, OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW	3-8d COMMON ($2\frac{1}{2}$ " x 0.131"); or 3-10d BOX (3" x 0.128"); or 3-3" x 0.131" NAILS; or 3-3" x 14 GAGE STAPLES, $\frac{7}{16}$ " CROWN	EACH END, TOENAIL
	BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL TOP	2-8d COMMON (2½" x 0.131") 2-3" x 0.131" NAILS	EACH END, TOENAIL
	PLATE, TO RAFTER OR TRUSS	2-3" x 14 GAGE STAPLES 2-16d COMMON (3½" x 0.162") 3-3" x 0.131" NAILS 3-3" x 14 GAGE STAPLES	END NAIL
	FLAT BLOCKING TO TRUSS AND WEB FILLER	16d COMMON (3½" 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 ($2\frac{1}{2}$ " 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, $\frac{1}{16}$ " 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 ($3\frac{1}{2}$ " 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, $\frac{1}{16}$ " 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, 7/6" 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 (3½" 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, ⅓6" CROWN	TOENAIL
7.	ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS; OR ROOF RAFTER TO 2" RIDGE BEAM	2-16d COMMON (3½" x 0.162"); or 3-10d BOX (3" x 0.128"); or 3-3" x 0.131 NAILS; or 3-3" x 14 GAGE STAPES, 7/6" CROWN 3-10d COMMON (3½" x 0.148"); or 3-16d BOX (3½" x 0.135"); or 4-10d BOX (3" x 0.128"); or 4-3" x 0.131 NAILS; or 4-3" x 14 GAGE STAPES, 7/6" CROWN WALL	END NAIL TOENAIL
8.	STUD TO STUD (NOT AT SHEARWALL CHORDS)	16d COMMON (3½" x 0.162")"	24" oc FACE NAIL
		10d BOX (3" x 0.128"); or 3" x 0.131" NAILS; or 3-3" x 14 GAGE STAPLES, ⅓6" CROWN	16" oc FACE NAIL
9.	STUD TO STUD AND ABUTTING STUDS AT INTERSECTION WALL CORNERS	16d COMMON (3½" × 0.162")"; or	16" oc FACE NAIL
		16d BOX (3½" x 0.135")"; or 3" x 0.131" NAILS; or 3-3" x 14 GAGE STAPLES, ¾6" CROWN	12" oc FACE NAIL 12" oc FACE NAIL
10.	BUILT-UP HEADER (2" TO 2" HDR.)	16d COMMON (3½" x 0.162")"; or	16" oc EA. EDGE, FACE NAIL 12" oc EA. EDGE,
11.	CONTINUOUS HEADER TO STUD	16d BOX (3½" x 0.135") 4-8d COMMON (2½" x 0.131"); or 4-10d BOX (3" x 0.128")	FACE NAIL TOENAIL
12.	TOP PLATE TO TOP PLATE	16d COMMON (3½" x 0.162"); or	16" oc FACE NAIL
		10d BOX (3" x 0.128"); or 3" x 0.131" NAILS; or 3" x 14 GAGE STAPLES, ⅙" CROWN	12" oc FACE NAIL
13.	TOP PLATE TO TOP PLATE, AT END JOINTS	8-16d COMMON ($3\frac{1}{2}$ " x 0.162"); or 12-10d BOX (3 " x 0.128"); or 12-3" x 0.131" NAILS; or 12-3" x 14 GAGE STAPLES, $\frac{1}{12}$ 6" CROWN	EACH SIDE OF END JOINT, FACE NAIL (MINIMUM 24" LAP SPLICE LENGTH EA SIDE OF END JOIN
14.	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST, OR BLOCKING NOT AT SHEARWALL	16d COMMON ($3\frac{1}{2}$ " x 0.162")"; or 16d BOX ($3\frac{1}{2}$ " x 0.135")"; or 3" x 0.131" NAILS; or 3" x 14 GAGE STAPLES, $\frac{1}{16}$ " CROWN	16" oc FACE NAIL 12" oc FACE NAIL
15.	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST, OR BLOCKING AT SHEARWALL	2-16d COMMON ($3\frac{1}{2}$ " x 0.162"); or 3-16d BOX ($3\frac{1}{2}$ " x 0.135"); or 4-3" x 0.131" NAILS; or 4-3" x 14 GAGE STAPLES, $\frac{7}{16}$ " CROWN	16" oc FACE NAIL
16.	STUD TO TOP OR BOTTOM PLATE	4-8d COMMON (2½" x 0.131"); or 4-10d BOX (3" x 0.128"); or 4-3" x 0.131" NAILS; or 4-3" x 14 GAGE STAPLES, 7/6" CROWN	TOENAIL
		2-16d COMMON ($3\frac{1}{2}$ " 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, $\frac{7}{16}$ " CROWN	END NAIL
17.	TOP OR BOTTOM PLATE TO STUD	2-16d COMMON (3½" x 0.162"); or 3-10d BOX (3" x 0.128"); or 3-3" x 0.131" NAILS; or	END NAIL

DESCRIPTION OF BLDG. ELEMEN		SPACING (LOCATION
18. TOP PLATES, LAPS AT CORNERS AND	WALL (CONTINUED) 2-16d COMMON (3½" x 0.162"); or 3-10d BOX (3" x 0.128"); or	FACE NAIL
INTERSECTIONS	3-3" x 0.131" NAILS; or 3-3" x 14 GAGE STAPLES, ¾6" CROWN	TAGE IVAIL
19. 1" BRACE TO EACH STUD AND PLATE	2-8d COMMON ($2\frac{1}{2}$ " x 0.131"); or 2-10d BOX (3 " x 0.128"); or 2-3" x 0.131" NAILS; or 2-3" x 14 GAGE STAPLES, $\frac{1}{16}$ " CROWN	FACE NAIL
20. 1" x 6" SHEATHING TO EACH BEARING	2-8d COMMON (2½" x 0.131"); or 2-10d BOX (3" x 0.128"); or	FACE NAIL
21. 1" x 8" AND WIDER SHEATHING TO EACH BEARING	3-8d COMMON (2½" x 0.131"); or 3-10d BOX (3" x 0.128"); or	FACE NAIL
	FLOOR	
22. JOIST TO SILL, TOP PLATE, OR GIRDER	$3-8d$ COMMON ($2\frac{1}{2}$ " 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, $\frac{1}{16}$ " CROWN	TOENAIL
23. RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL, OR OTHER FRAMING BELOW	8d COMMON ($2\frac{1}{2}$ " x 0.131"); or 10d BOX (3" x 0.128"); or 3" x .131" NAILS; r 3" x 14 GAGE STAPLES, $\frac{1}{16}$ " CROWN	6" o.c., TOE
24. 1" x 6" SUBFLOOR OR LESS TO EACH JOIST	2-8d COMMON (2½" x 0.131"); or 2-10d BOX (3" x 0.128")	FACE NAIL
25. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3½" x 0.162")	FACE NAIL
26. 2" PLANKS (PLANK & BEAM – FLOOR & ROOF)	2-16d COMMON (3½" x 0.162")"	EA. BEARING FACE NAIL
27. BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	20d COMMON (4" x 0.192")	32" o.c., FA NAIL TOP & STAGGERED OPPOSITE SI
	10d BOX (3" x 0.128"); or 3" x 0.131" NAILS; or 3" x 14 GAGE STAPLES, 7/6" CROWN	24" o.c., FA NAIL AT TOF BOT. STAGGE ON OPP. SID
	AND: $2-20d$ COMMON (4" x 0.192"); or $3-10d$ BOX (3" x 0.128"); or $3-3$ " x 0.131" NAILS; or $3-3$ " x 14 GAGE STAPLES, $\frac{7}{16}$ " CROWN	ENDS AND A EACH SPLICE FACE NAIL
28. LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	$3-16d$ COMMON ($3\frac{1}{2}$ " 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, $\frac{1}{16}$ " CROWN	EACH JOIST OR RAFTER, FACE NAIL
29. JOIST TO BAND JOIST OR RIM JOIST	$3-16d$ COMMON ($3\frac{1}{2}$ " 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, $\frac{1}{16}$ " CROWN	END NAIL
30. BRIDGING OR BLOCKING TO JOIST, RAFTER, OR TRUSS	2-8d COMMON ($2\frac{1}{2}$ " x 0.131"); or 2-10d BOX (3 " x 0.128"); or 2-3" x 0.131" NAILS; or 2-3" x 14 GAGE STAPLES, $\frac{1}{16}$ " CROWN	EACH END, TOENAIL

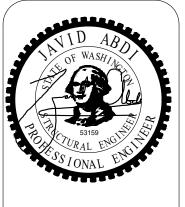
N	MULTIPLE	LVL MEMBER	FASTEN	ING PE	R WEYERHAL	JSER
				F.	ASTENER	
PIECE WIDTH	NUMBER OF PLIES	TYPE ⁽¹⁾	MIN. LENGTH	# ROWS	O.C. SPACING	LOCATION
		10d NAILS	3"	3(2)	12"	
1¾"	2	12d - 16d NAILS	31/4"	2 ⁽²⁾	12	ONE SIDE
		SCREWS	3%" or 3½'	2	24"	
		10d NAILS	3"	3(2)	40"	BOTH SIDES
	3	12d - 16d NAILS	31/4"	2 ⁽²⁾	12"	
		CODEMC	3%" or 3½'	2	24"	BOTH SIDES
		SCREWS	5"	2	24	ONE SIDE
		10d NAILS	3"	3(2)	40"	ONE SIDE
		12d - 16d NAILS	31/4"	2 ⁽²⁾	12"	(PER PLY)
	4	SCREWS	5" or 6"	2	24"	BOTH SIDES
			6¾"	2		ONE SIDE
		CODEMO	5" or 6"	0	24"	BOTH SIDES
3½"	2	SCREWS	6¾"	2	24	ONE SIDE
		½"ø BOLTS	8"	2	24"	_

(1) 10d NAILS ARE 0.128" DIAMETER; 12d - 16d NAILS ARE 0.148" - 0.162" DIAMETER;

SCREWS ARE SDS, USP WP, TrussLOK, OR SDW (2) AN ADDITIONAL ROW OF NAILS IS REQUIRED WITH DEPTHS OF 14" OR GREATER (3) WHEN CONNECTING 4-PLY MEMBERS, NAIL EACH PLAY TO THE OTHER AND OFFSET NAIL ROWS BY 2" FROM ROWS IN THE PLY BELOW





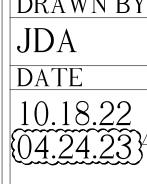


 \mathcal{O} 3632 Mercer

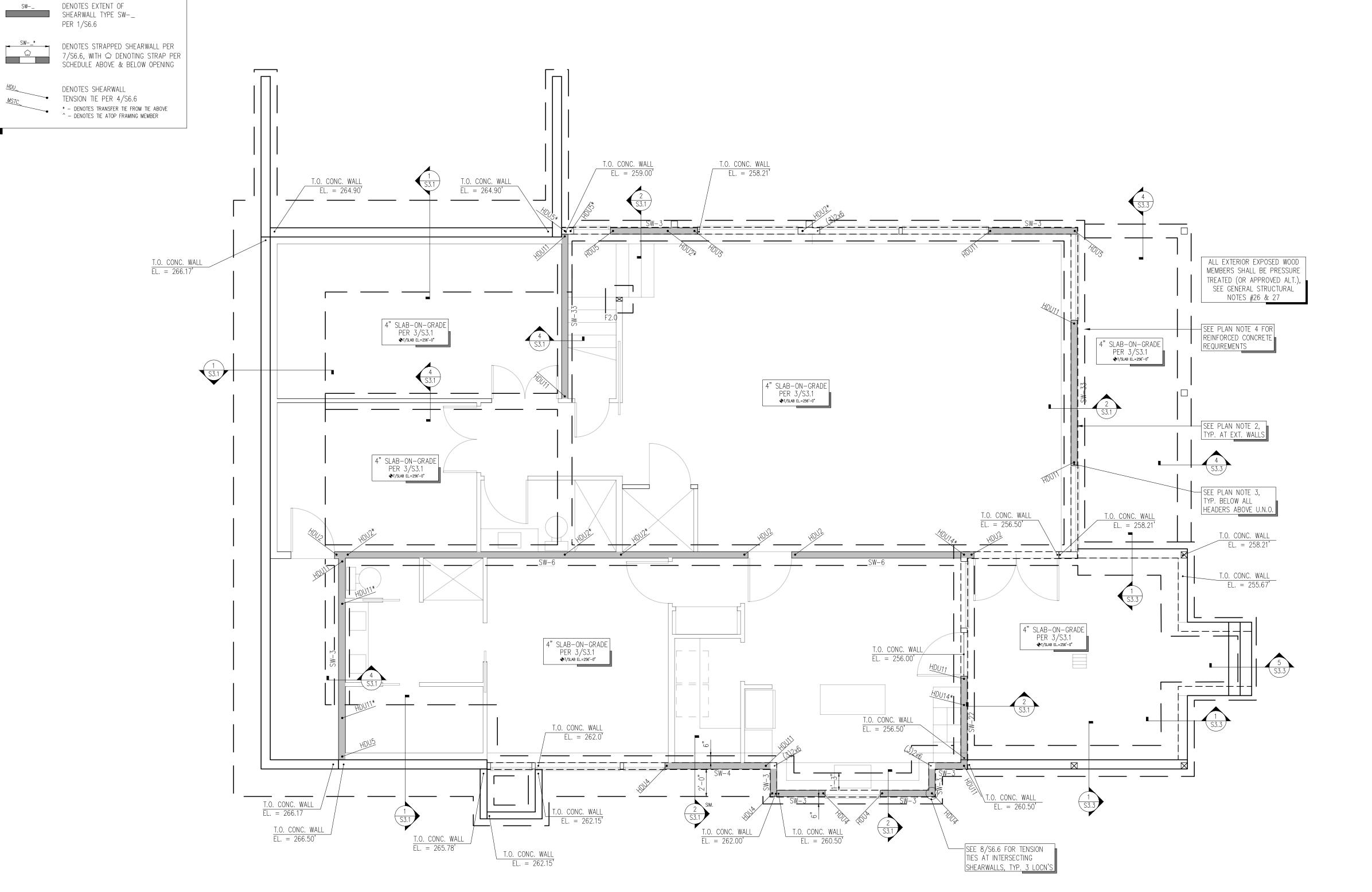
CONTENTS General

Strucural Notes

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1. SOLID WALLS AND SHEARWALLS SHOWN IN PLAN ARE ABOVE FIRST FLOOR LEVEL (FROM FIRST FLOOR TO SECOND FLOOR). 2. EXTERIOR STUDWALLS SHALL BE 2x6 STUDS @ 16" oc (MAX). SEE ARCHITECTURAL FOR INTERIOR STUDWALLS. SEE 6/6.02, 5/S6.2, AND 2/S6.2 FOR ALLOWABLE

NORTH

- HOLES & NOTCHES IN STUDWALL STUDS AND TOP & BOTTOM PLATES. 3. ALL HEADERS ABOVE (SEE 1/S2.2) SHALL HAVE A MINIMUM NUMBER OF POSTS PER 4/S6.1 AT NON-LOAD BEARING EXTERIOR WALLS, AND PER 6/S6.1 AT LOAD BEARING EXTERIOR WALLS

 4. SEE STRUCTURAL GENERAL NOTES #13 – 18 FOR CONCRETE AND CONCRETE
- REINFORCING REQUIREMENTS.

FOUNDATION AND FIRST FLOOR PLAN

EGEND

CONCRETE FOOTING

CONCRETE WALL

STEP IN FOOTING PER 9/S3.1

STRUCTURAL WOOD

STUDWALL ABOVE

DENOTES TOP OF FOOTING ELEVATION

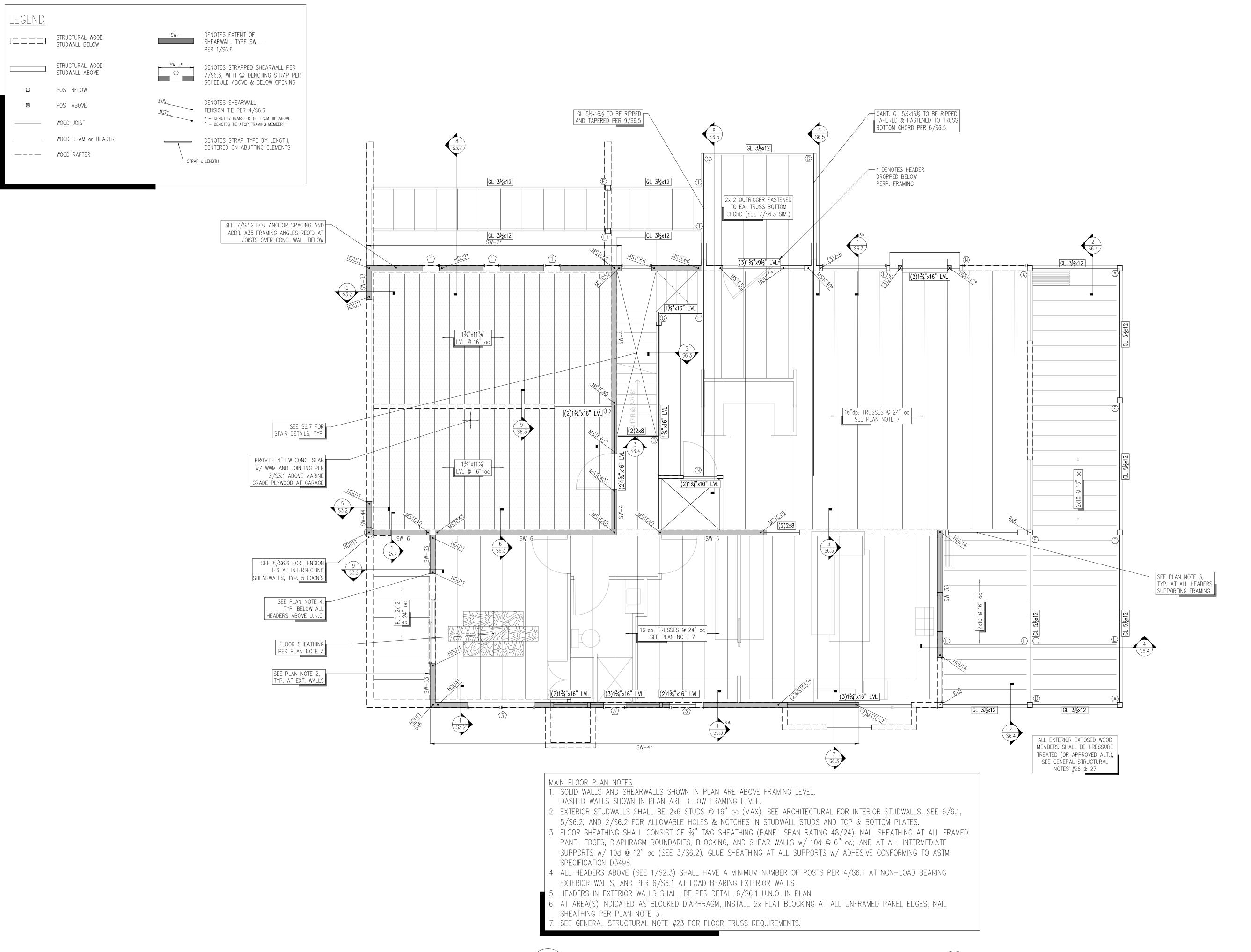
| STRUCTURAL WOOD STUDWALL BELOW

DENOTES SPREAD

POST ABOVE

FOOTING PER 5/S3.1

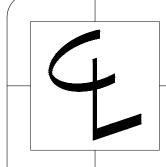
1/4" = 1'-0"



MAIN FLOOR FRAMING PLAN

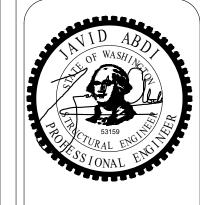
CONNECTOR TABLE SIMPSON DESIGNATION NOTES ECCLQ, ECCRQ L-POST CAP HUS ∼or∼ BU HANGER HGU ∼or∼ EGQ HANGER T-POST CAP IUS ~or~ ITS HANGER COLUMN CAP HUCQ CONCEALED FLANGE HANGER IUS ∼or∼ MIT HANGER LUS ∼or∼ HWPH HANGER HANGER





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CONTENTS

Main Floor Framing Plan

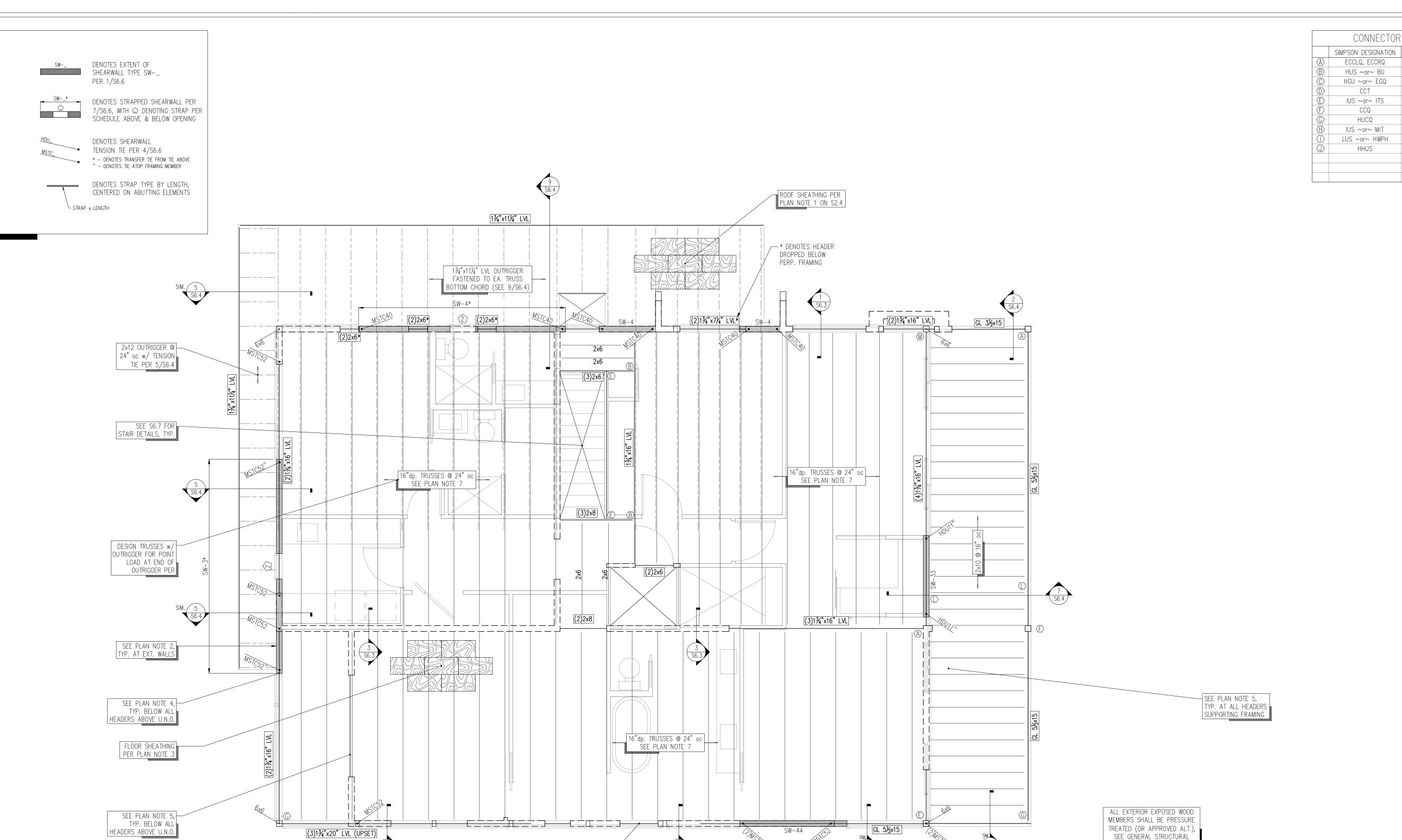
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JDA

DATE 10.18.22 04.24.23

S2.2

NORTH



UPPER FLOOR PLAN NOTES

1. SOLID WALLS AND SHEARWALLS SHOWN IN PLAN ARE ABOVE FRAMING LEVEL.

DASHED WALLS SHOWN IN PLAN ARE BELOW FRAMING LEVEL.

SEE 6/S6.1 FOR RIMBOARD HEADER A EXT. WALLS SUPPORTING FRAMING, TYP. U.N.O.

2. EXTERIOR STUDWALLS SHALL BE 2x6 STUDS @ 16" oc (MAX). SEE ARCHITECTURAL FOR INTERIOR STUDWALLS. SEE 6/6.1, 5/S6.2, AND 2/S6.2 FOR ALLOWABLE HOLES & NOTCHES IN STUDWALL STUDS AND TOP & BOTTOM PLATES.

SW-44

3. FLOOR SHEATHING SHALL CONSIST OF $\frac{3}{4}$ " T&G SHEATHING (PANEL SPAN RATING 48/24). NAIL SHEATHING AT ALL FRAMED PANEL EDGES, DIAPHRAGM BOUNDARIES, BLOCKING, AND SHEAR WALLS w/ 10d @ 6" oc; AND AT ALL INTERMEDIATE SUPPORTS w/ 10d @ 12" oc (SEE 3/S6.2). GLUE SHEATHING AT ALL SUPPORTS w/ ADHESIVE CONFORMING TO ASTM SPECIFICATION D3498.

4. ALL HEADERS ABOVE (SEE 1/S2.4) SHALL HAVE A MINIMUM NUMBER OF POSTS PER 4/S6.1 AT NON-LOAD BEARING EXTERIOR WALLS, AND PER 6/S6.1 AT LOAD BEARING EXTERIOR WALLS

5. HEADERS IN EXTERIOR WALLS <u>NOT SUPPORTING RAFTERS</u>, <u>JOISTS</u>, <u>OR BEAMS</u> SHALL BE PER DETAIL 4/S6.1 U.N.O. IN PLAN. 6. AT AREA(S) INDICATED AS BLOCKED DIAPHRAGM, INSTALL 2x FLAT BLOCKING AT ALL UNFRAMED PANEL EDGES. NAIL SHEATHING PER PLAN NOTE 3.

. SEE GENERAL STRUCTURAL NOTE #23 FOR FLOOR TRUSS REQUIREMENTS.



I = = = I STRUCTURAL WOOD STUDWALL BELOW

STRUCTURAL WOOD

STUDWALL ABOVE

POST BELOW

POST ABOVE

WOOD JOIST

HEADERS ABOVE U.N.O.

WOOD BEAM or HEADER

———— WOOD RAFTER

UPPER FLOOR FRAMING PLAN



SEE GENERAL STRUCTURAL NOTES #26 & 27

CONSULTING STRUCTURAL ENGINEERS

CONNECTOR TABLE

HUCQ

NOTES

L-POST CAP

HANGER

HANGER

T-POST CAP

HANGER

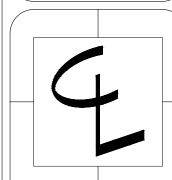
COLUMN CAP

CONCEALED FLANGE HANGER

HANGER

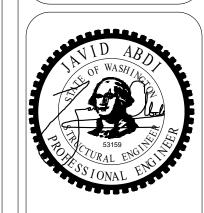
HANGER

HANGER



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CONTENTS

Upper Floor Framing Plan

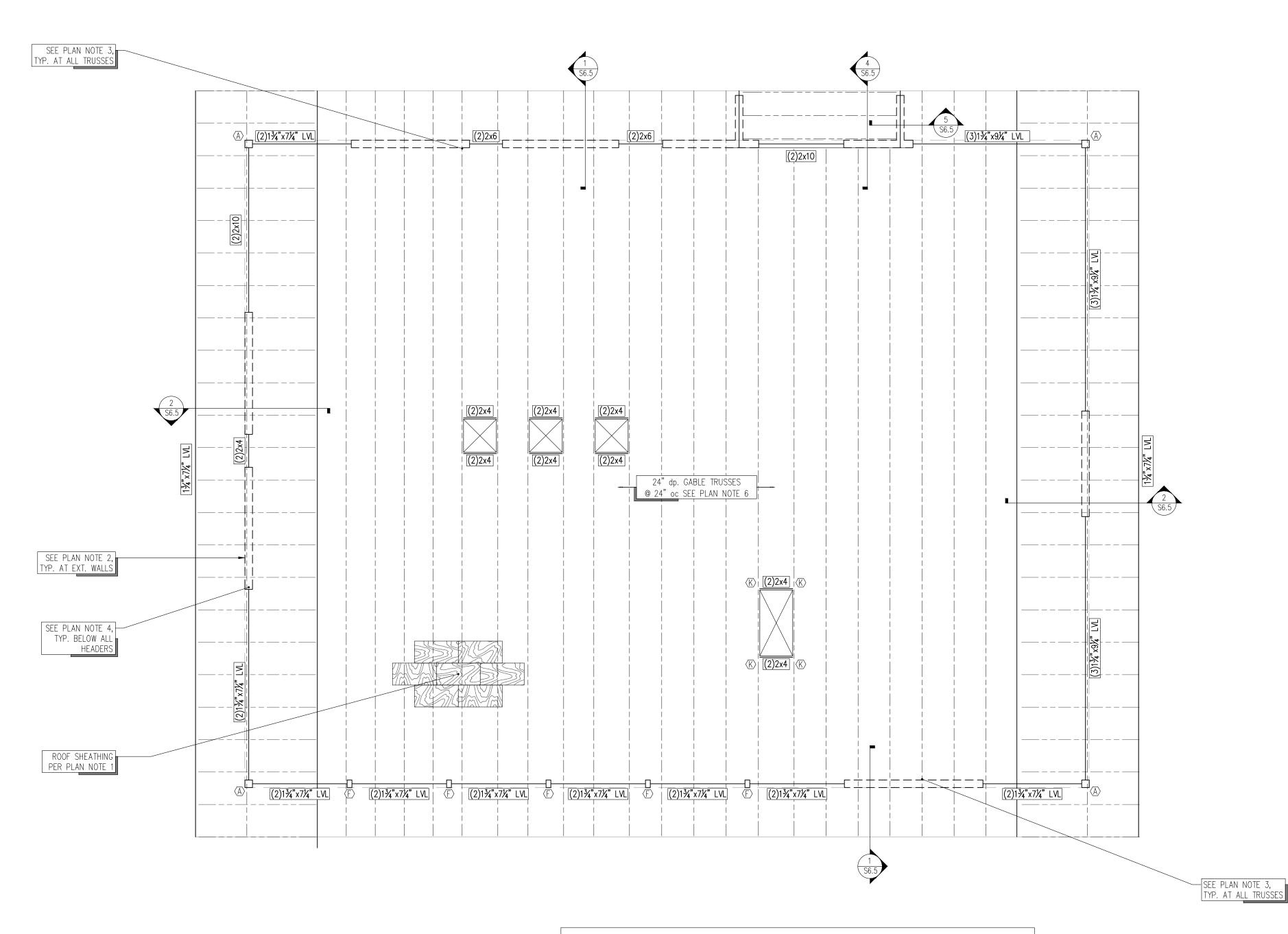
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JDA DATE

10.18.22 (04.24.23)

LEGEN		
ı===	<u>_</u> 1	STRUCTURAL WOOD STUDWALL BELOW
		POST BELOW
	_	WOOD RAFTER
		WOOD BEAM or HEADER
		DENOTES STRAP TYPE BY LENGT CENTERED ON ABUTTING ELEMEN
	STRAP x	LENGTH

	CONNECTOR	TABLE
	SIMPSON DESIGNATION	NOTES
$\langle A \rangle$	ECCLQ, ECCRQ	L-POST CAP
B	HUS ~or~ BU	HANGER
(C)	HGU ∼or∼ EGQ	HANGER
	CCT	T-POST CAP
(E)	IUS ~or~ ITS	HANGER
(E)	CCQ	COLUMN CAP
(G)	HUCQ	CONCEALED FLANGE HANGER
\oplus	IUS ∼or∼ MIT	HANGER
	LUS ~or~ HWPH	HANGER
	HHUS	HANGER



ROOF PLAN NOTES

1. ROOF SHEATHING SHALL CONSIST OF 5/8" SHEATHING (PANEL SPAN RATING 32/16) NAILED AT ALL FRAMED PANEL EDGES, DIAPHRAGM BOUNDARIES, BLOCKING, AND SHEAR WALLS w/ 10d @ 6" oc; AND AT ALL INTERMEDIATE SUPPORTS w/ 10d @ 12" oc (SEE 3/S6.2).

2. DASHED WALLS AND SHEARWALLS SHOWN IN PLAN ARE BELOW ROOF FRAMING ELEVATION

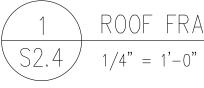
(i.e. FROM THIRD FLOOR TO UNDERSIDE OF ROOF).

3. PROVIDE H2.5A HURRICANE TIES AT END OF ALL EXISTING RAFTERS.

4. ALL HEADERS SHALL HAVE A MINIMUM NUMBER OF POSTS PER 4/S6.1 AT NON-LOAD BEARING EXTERIOR WALLS, AND PER 6/S6.1 AT LOAD BEARING EXTERIOR WALLS

5. HEADERS IN EXTERIOR WALLS <u>NOT SUPPORTING RAFTERS</u>, <u>JOISTS</u>, <u>OR BEAMS</u> SHALL BE PER DETAIL 4/S6.1 U.N.O. IN PLAN.

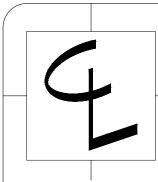
6. SEE GENERAL STRUCTURAL NOTE #23 FOR ROOF TRUSS REQUIREMENTS.



ROOF FRAMING PLAN

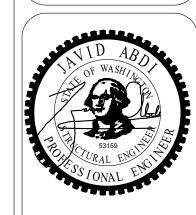


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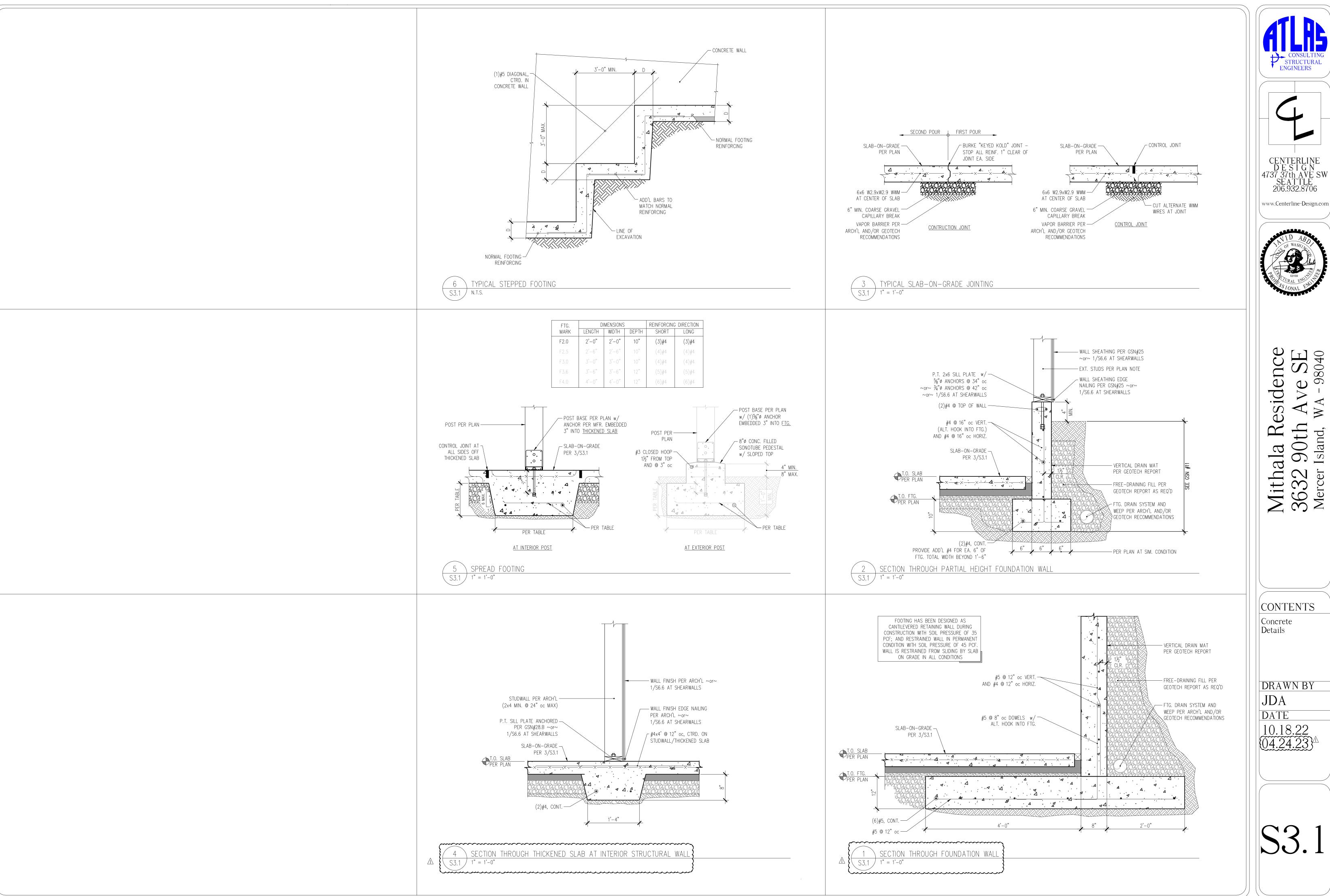
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CONTENTS

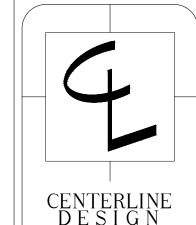
Framing Plan

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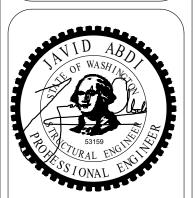
DATE 10.18.22 04.24.23







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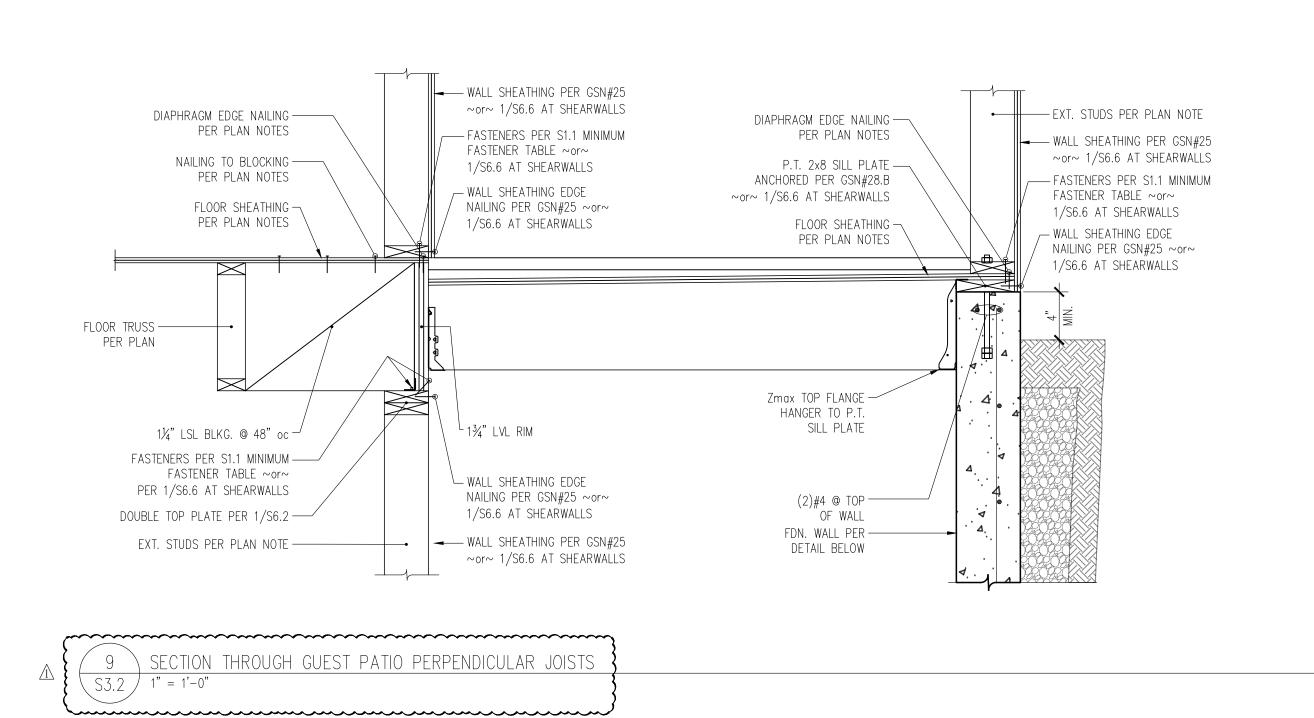
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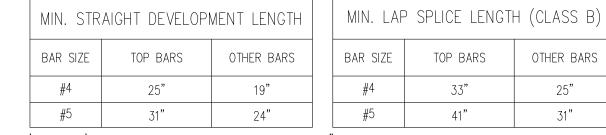
CONTENTS

Concrete Details

DRAWN BY JDA

DATE 10.18.22





'TOP BARS' ARE HORIZONTAL BARS WITH MORE THAN 12" DEPTH OF CONCRETE CAST BELOW THEM

IF CLEAR CONCRETE COVER IS LESS THAN 1x THE DIAMETER OF THE BAR OR THE CENTER-TO-CENTER SPACING IS LESS THAN (3) BAR DIAMETERS, THEN VALUES SHALL BE INCREASED BY 50%

	BEDMENT LENGTH DARD END HOOKS	
BAR SIZE	LENGTH	
#4	7"	
#5	9"	

DIAPHRAGM EDGE NAILING -

ANCHORED PER GSN#28.B

~or~ 1/S6.6 AT SHEARWALLS

 $1\frac{1}{4}$ " LSL BLKG. @ 48" oc w/-

FDN. WALL PER DETAIL BELOW -

Zmax TOP FLANGE HANGER
TO P.T. SILL PLATE

(2)#4 @ TOP OF WALL —

FLOOR TRUSS — PER PLAN

PER PLAN NOTES

P.T. 2x8 SILL PLATE ——

NAILING TO BLOCKING —

PER PLAN NOTES

FLOOR SHEATHING —

PER PLAN NOTES

1. SIDE COVER MUST BE EQUAL TO OR GREATER THAN 2½" 2. END COVER FOR 90° HOOKS MUST BE EQUAL TO OR GREATER THAN 2"

• EXT. STUDS PER PLAN NOTE

₩ WALL SHEATHING PER GSN#25

~or~ 1/S6.6 AT SHEARWALLS

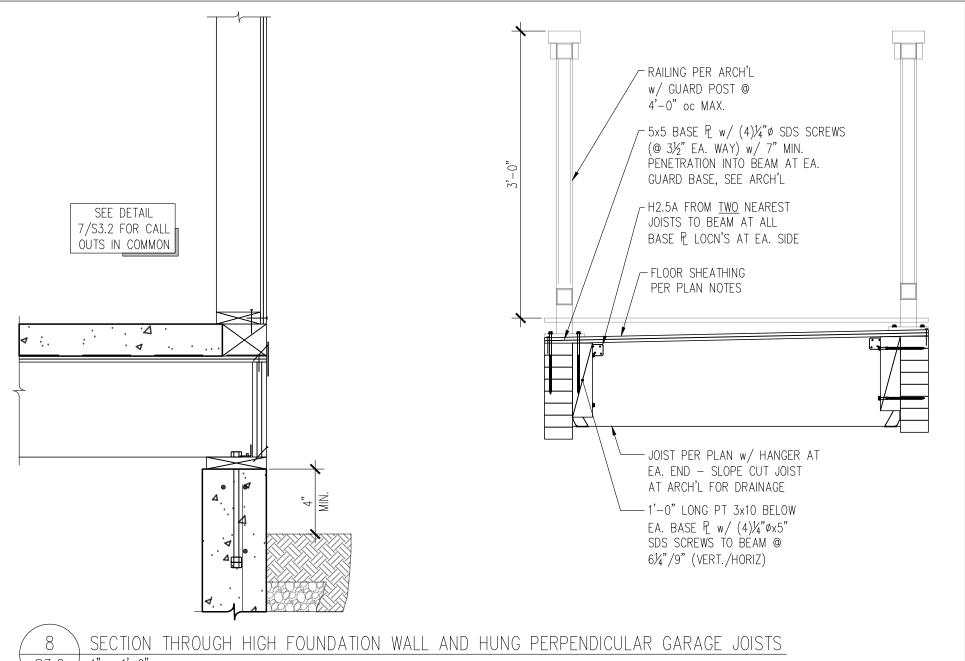
~or~ 1/S6.6 AT SHEARWALLS

~or~ 1/S6.6 AT SHEARWALLS

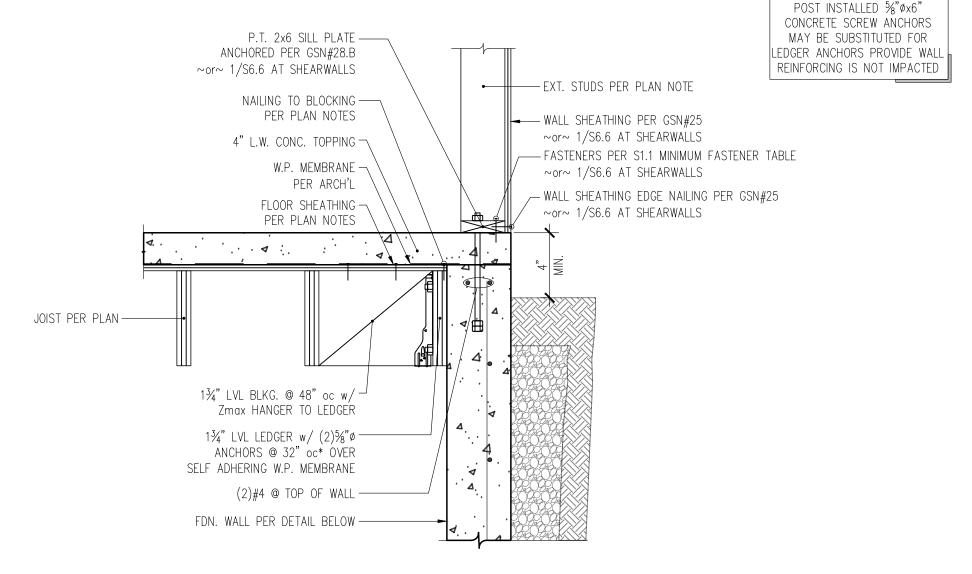
— FASTENERS PER S1.1 MINIMUM FASTENER TABLE

— WALL SHEATHING EDGE NAILING PER GSN#25

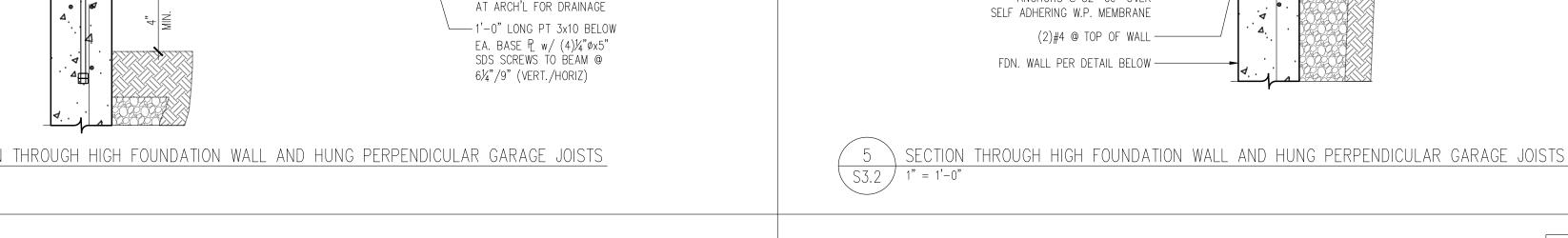


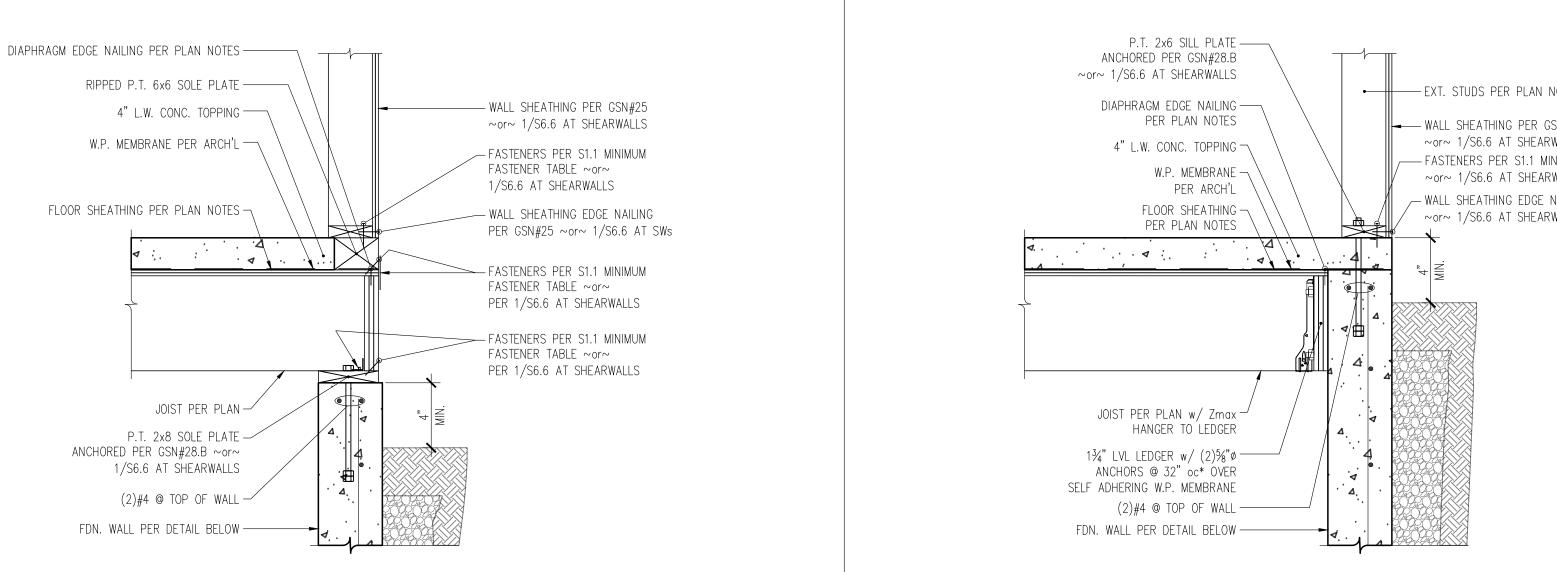


SECTION THROUGH HIGH FOUNDATION WALL

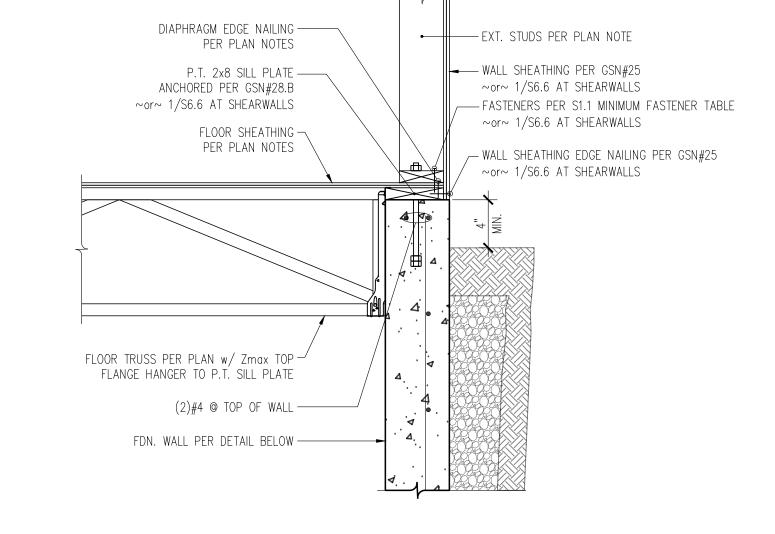


SECTION THROUGH HIGH FOUNDATION WALL AND HUNG PERPENDICULAR FLOOR TRUSS

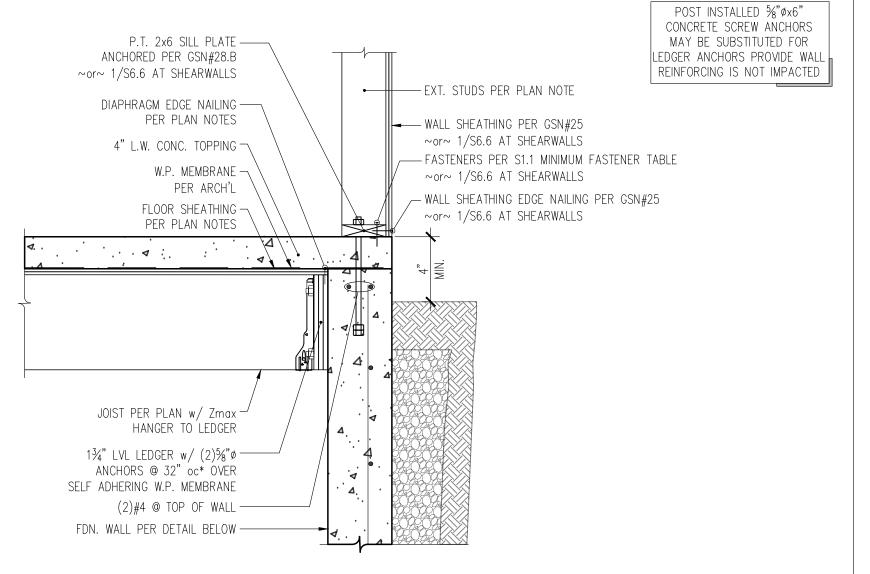




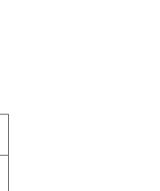
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SECTION THROUGH HIGH FOUNDATION WALL AND HUNG PERPENDICULAR FLOOR TRUSS



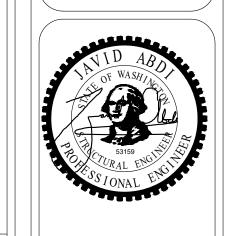
SECTION THROUGH HIGH FOUNDATION WALL AND HUNG PERPENDICULAR GARAGE JOISTS



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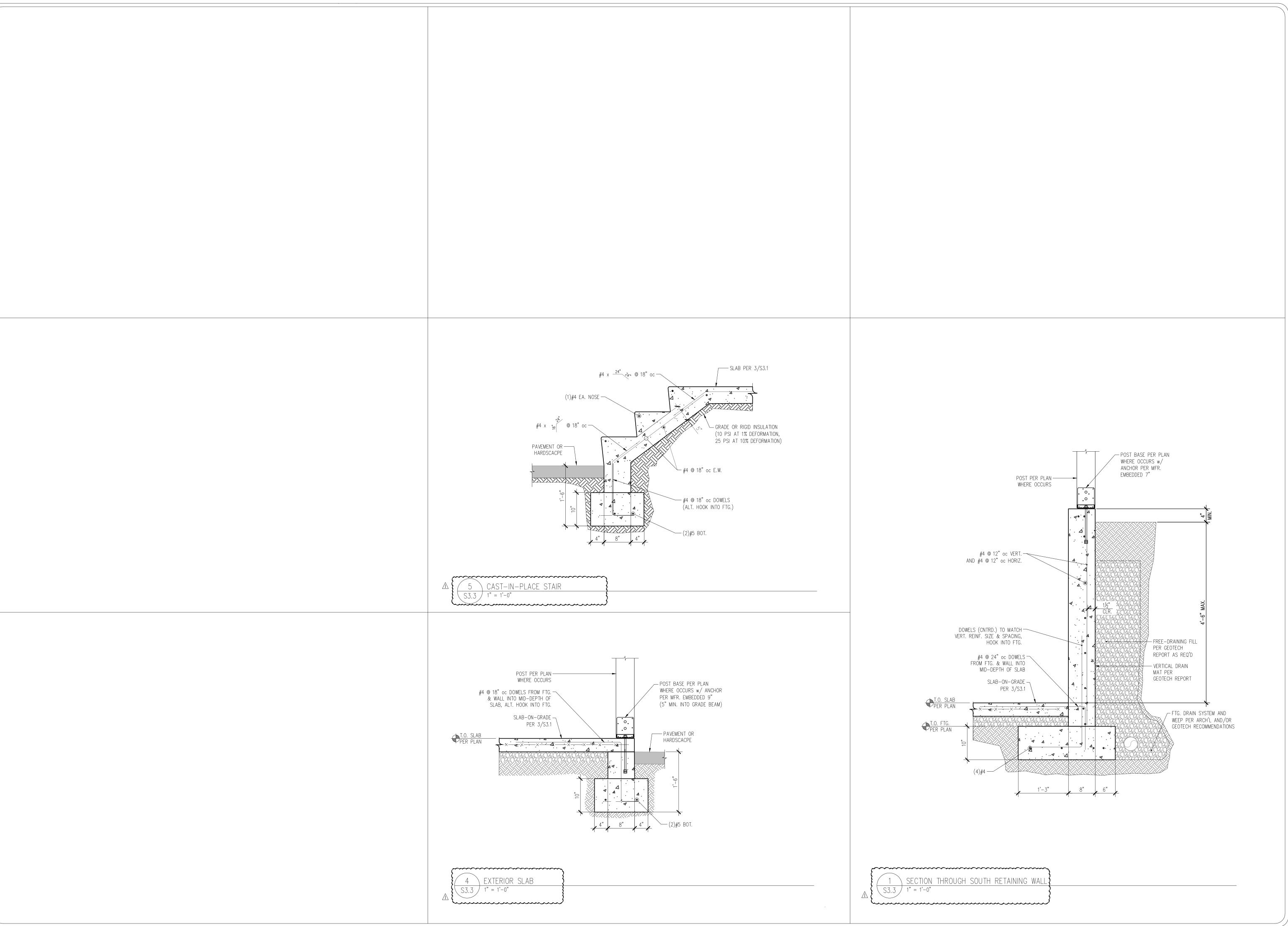
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CONTENTS

Concrete Details

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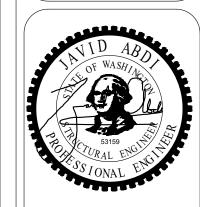
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CONTENTS
Concrete
Details

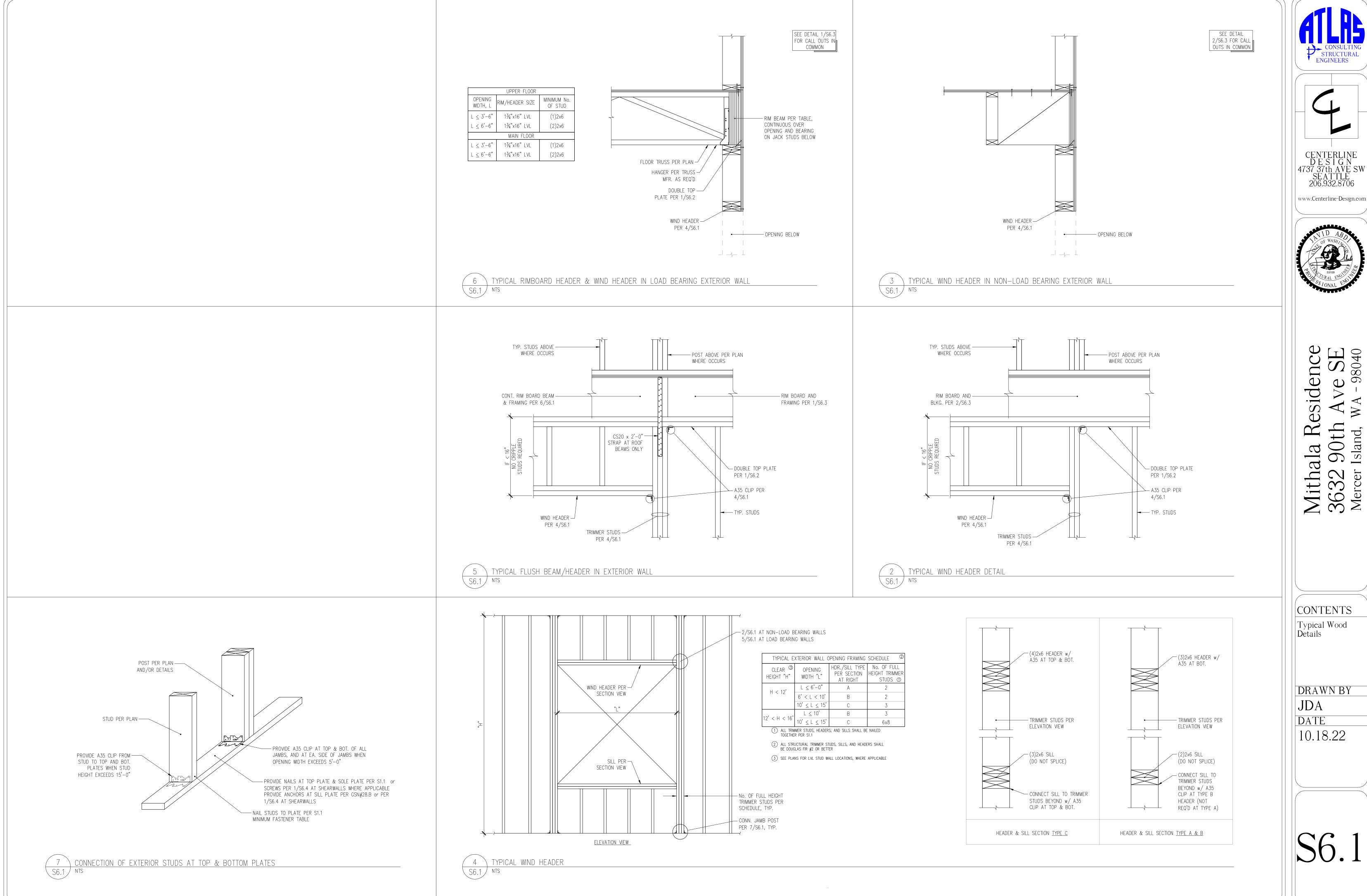
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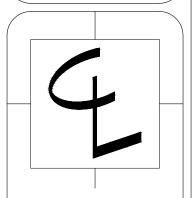
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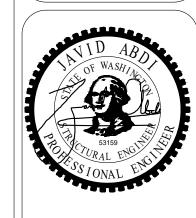
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CONTENTS Typical Wood

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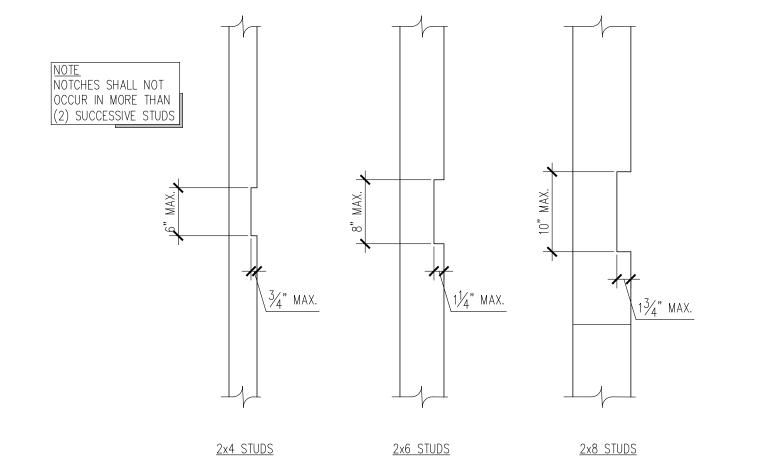
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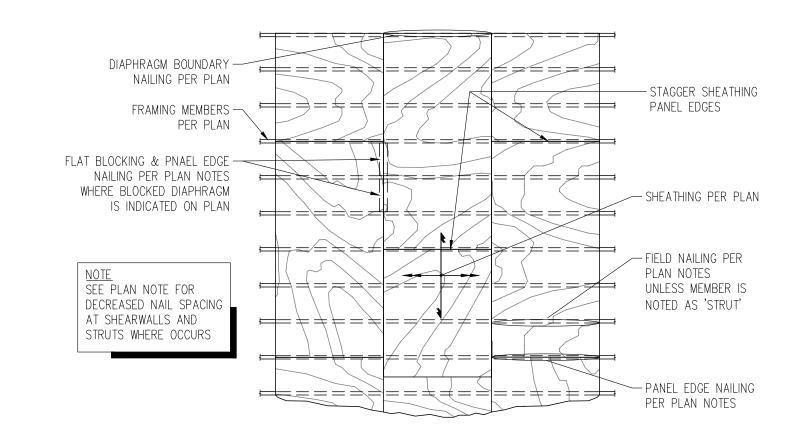
PIECE	NUMBER			FASTENER		
WIDTH	OF PLIES	TYPE ⁽¹⁾	MIN. LENGTH	# ROWS	O.C. SPACING	LOCATION
		10d NAILS	3"	3(2)	12"	
	2	12d - 16d NAILS	31/4"	2 ⁽²⁾	12	ONE SIDE
		SCREWS	3¾" or 3½'	2	24"	
		10d NAILS	3"	3(2)	4.0"	DOTH CIDEO
3½"	7	12d - 16d NAILS	31/4"	2 ⁽²⁾	12"	BOTH SIDES
	3	CODEMC	3¾" or 3½'	2	24"	BOTH SIDES
		SCREWS	5"	2	24	ONE SIDE
	4	10d NAILS	3"	3(2)	40"	ONE SIDE
		12d - 16d NAILS	31/4"	2 ⁽²⁾	12"	(PER PLY)
		CODEMC	5" or 6"	2	24"	BOTH SIDES
		SCREWS	6¾"	2	24	ONE SIDE
		0.005.00	5" or 6"		0.4"	BOTH SIDES
	2	SCREWS	6¾"	2	24"	ONE SIDE
		½"ø BOLTS	8"	2	24"	_

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

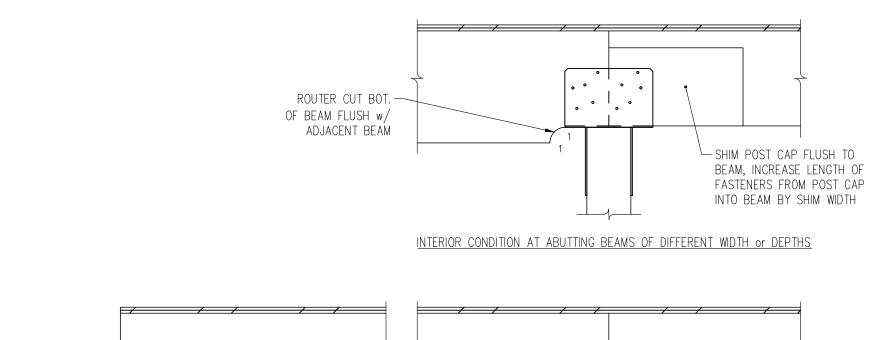
MULTIPLE LVL MEMBER FASTENING FOR TOP-LOADED BEAM PER WEYERHAUSER

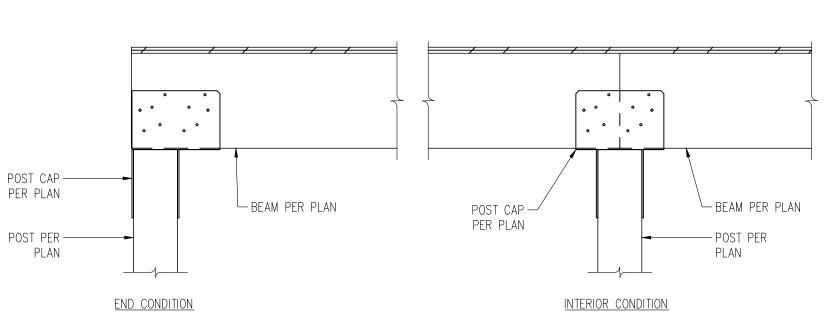




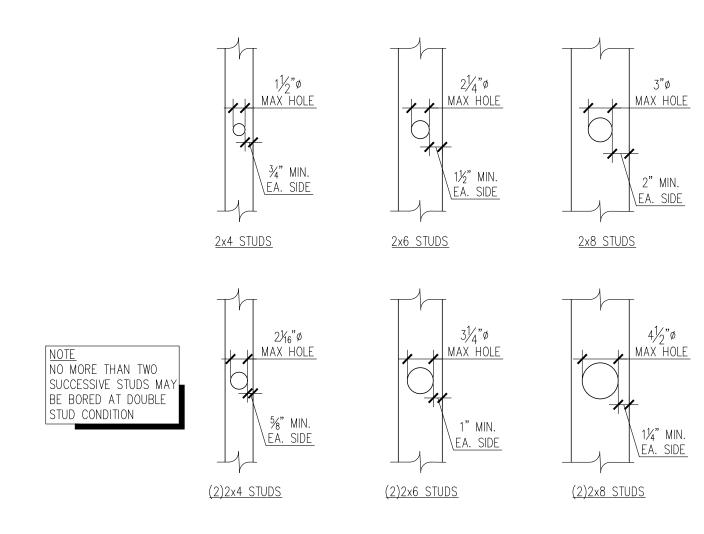


TYPICAL DIAPHRAGM NAILING

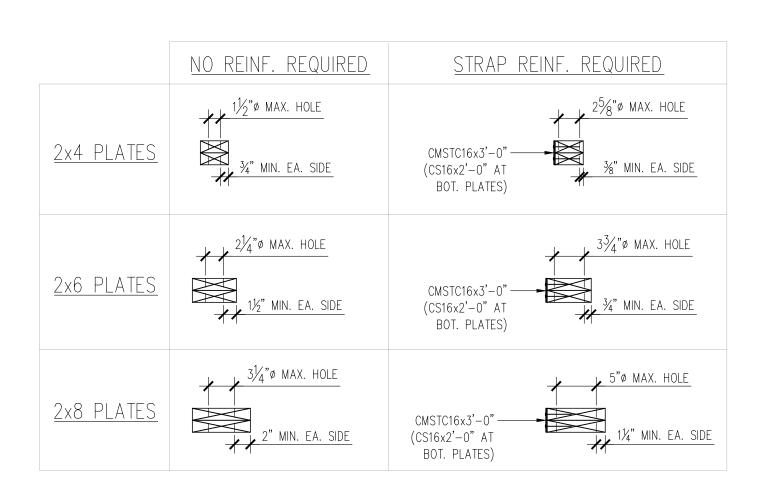




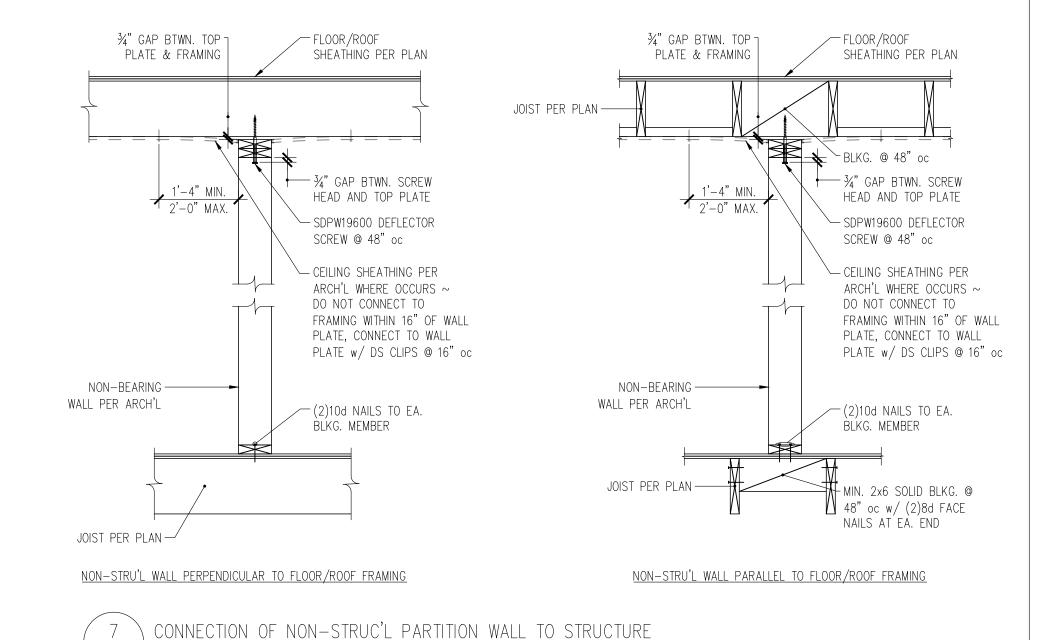


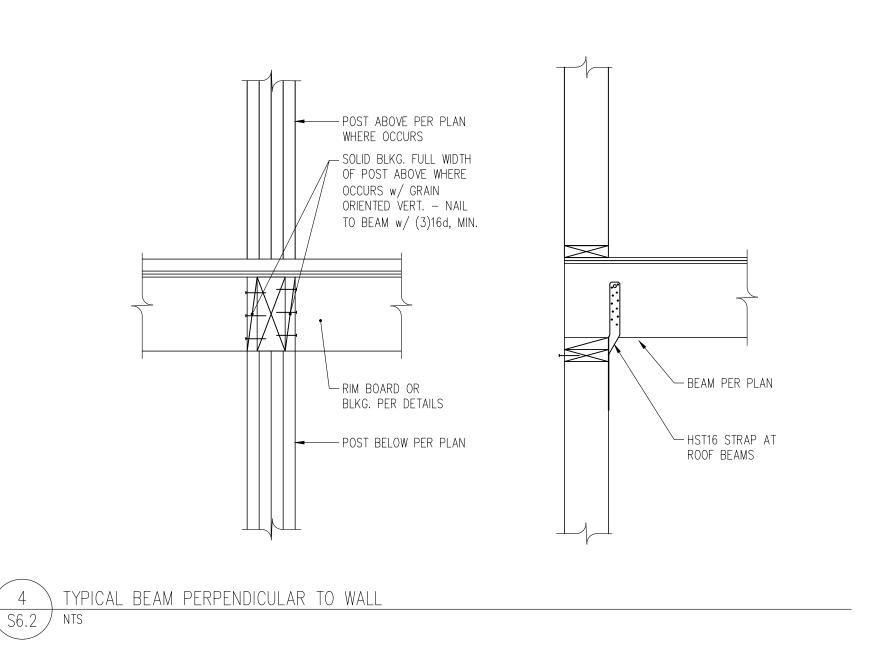


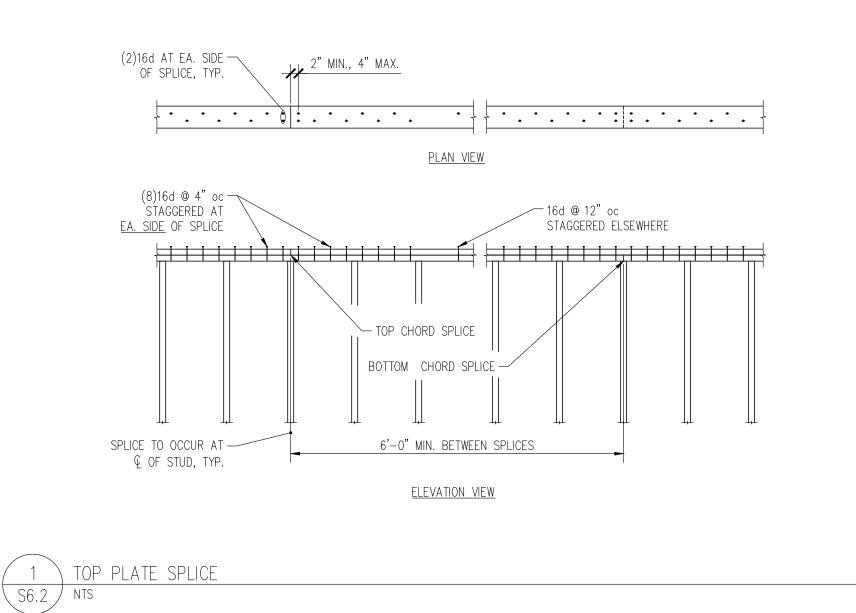








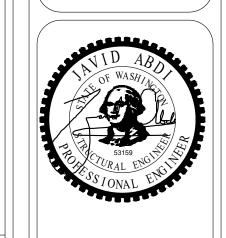




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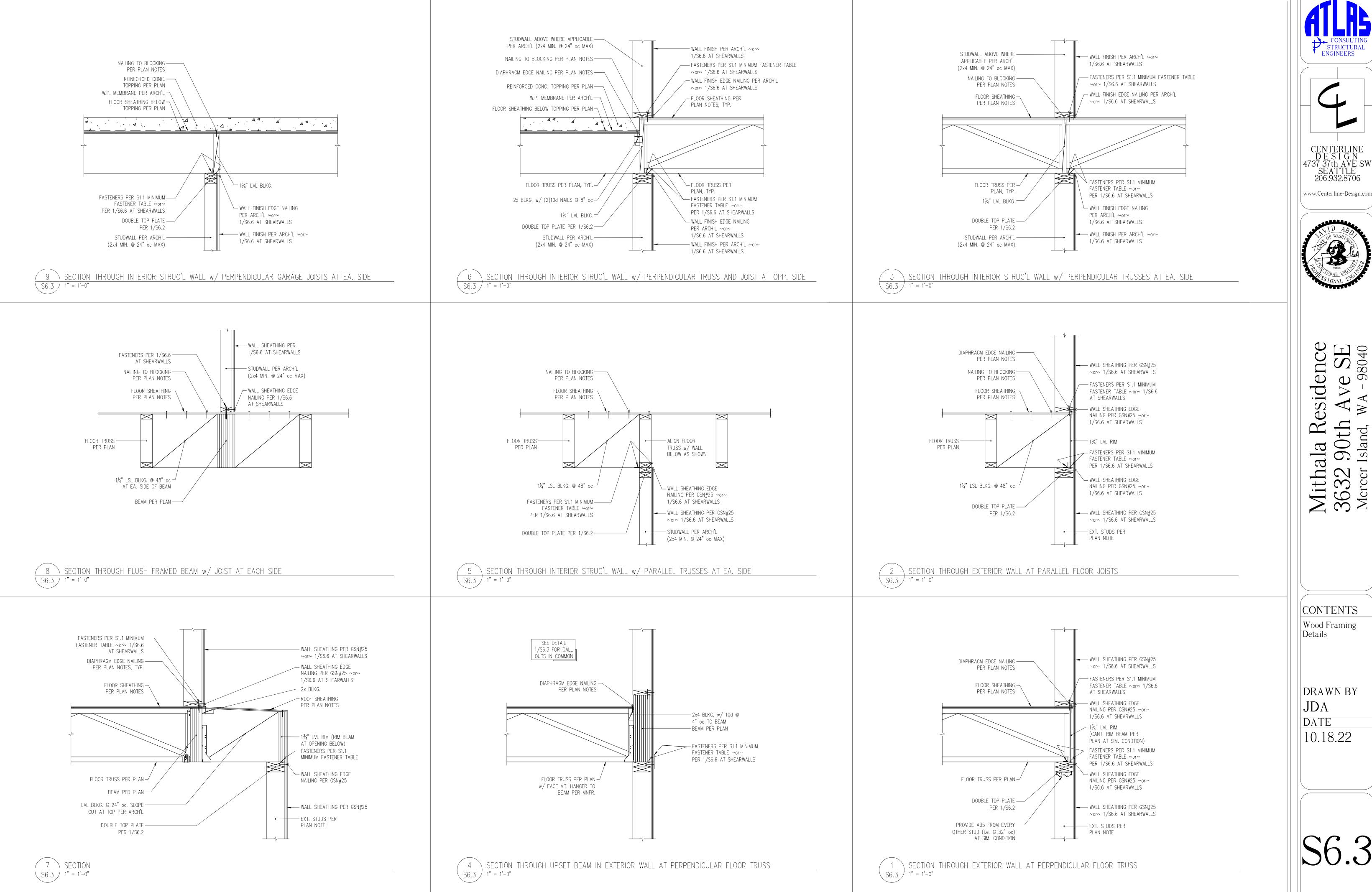


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CONTENTS Typical Wood Details

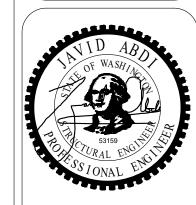
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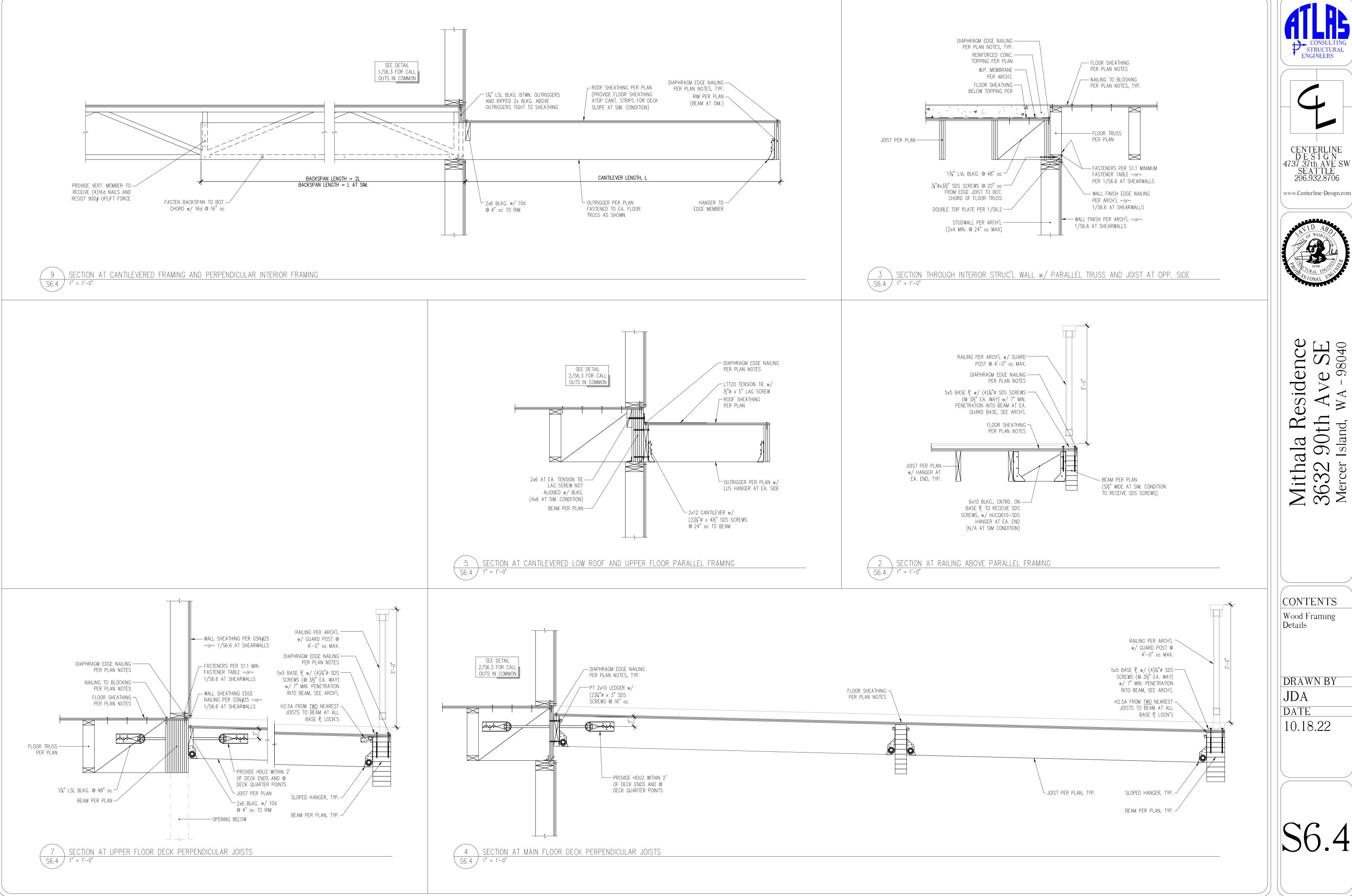
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CONTENTS Wood Framing

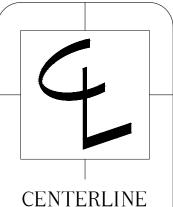
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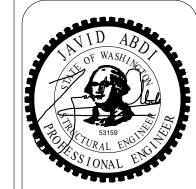
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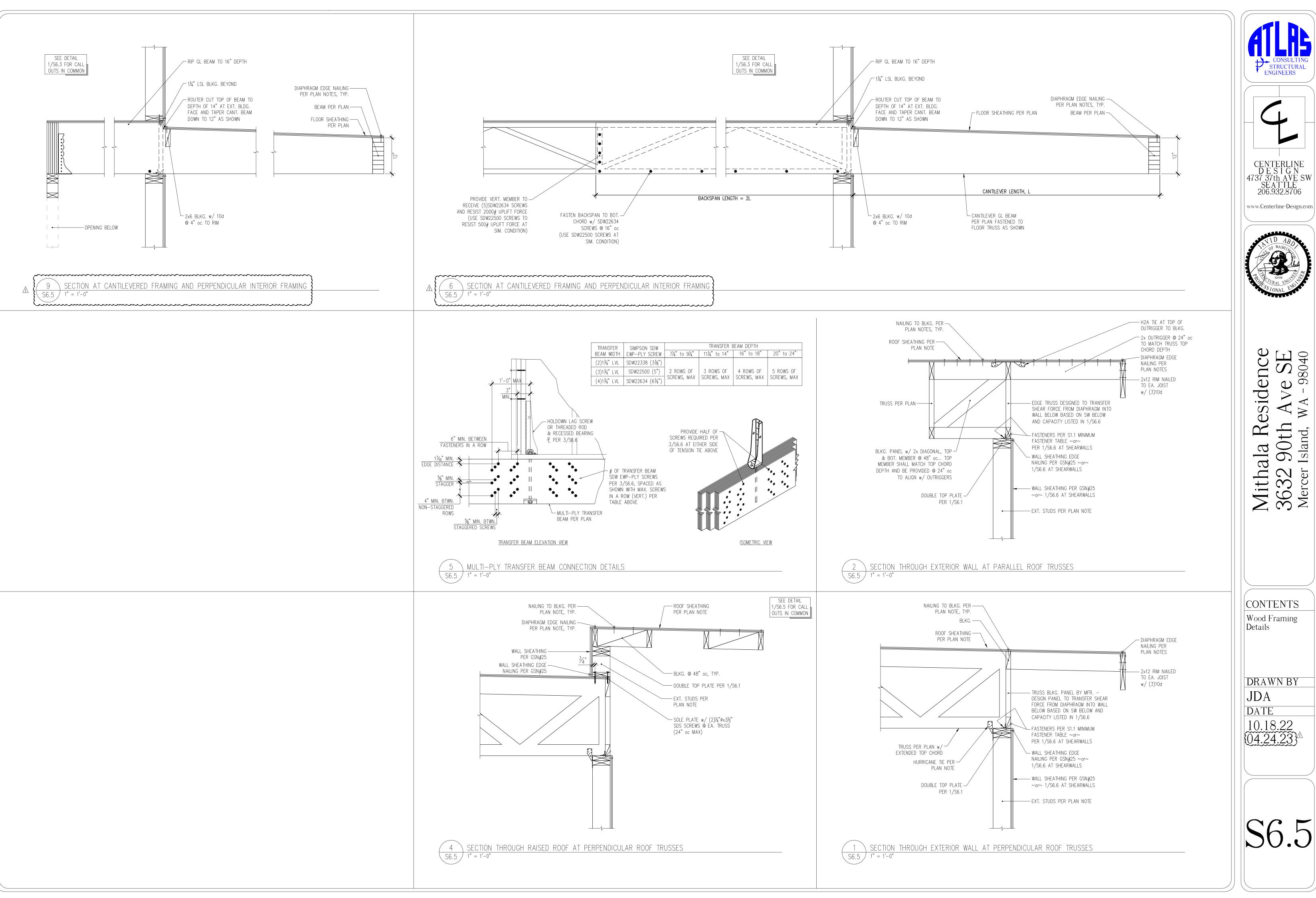
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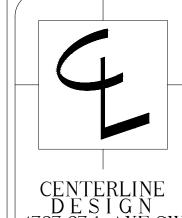
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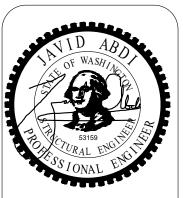
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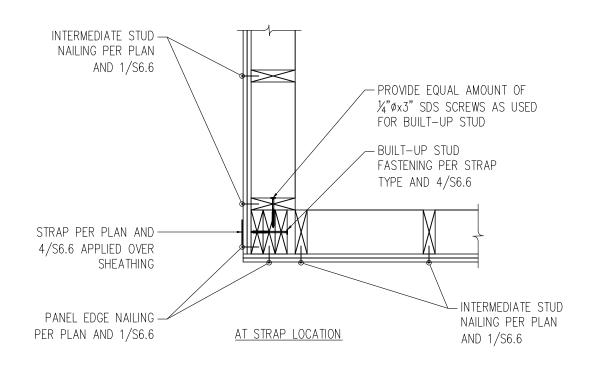
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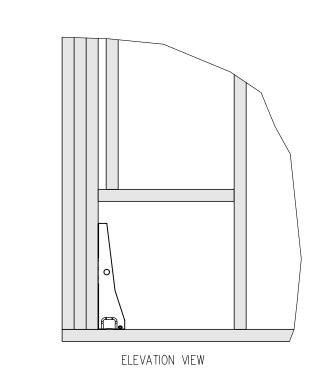
CONTENTS Wood Framing

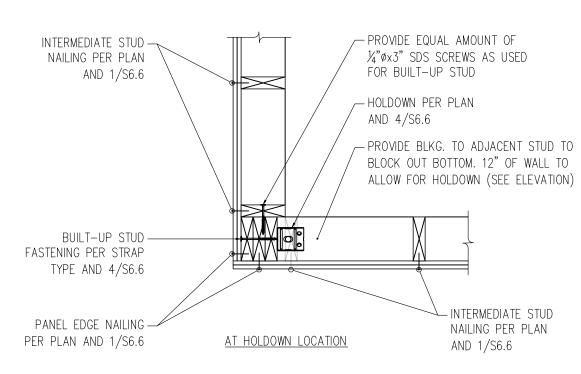
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10.18.22 (04.24.23)







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

TYPE STRAP END LENGTH NAILS

THE SHOW	LIND LLINOIII	I IV/IILS	
1 CS20	8"	(12)0.148"x2½"	
(2) CS20	18"	(12)0.148"x2½"	2
② CS20 ③ CS14	45"	(26)0.148"x2½"	2
			CHEADWALL DED DLAN & COUED
	/	•	SHEARWALL PER PLAN & SCHED. (FULL LENGTH OF SHEARWALL)
			(TOLL LENOTH OF SHEAKWALL)
PROVIDE 2x BLKG STRAP ELEVATIONS ACRO SHEARWALL LENGTH AND PANEL EDGE NAIL SHEATHING TO SHEATHING & ABOVE & BELOW SHALL MATCH A SHEARWA SCHEDULE OF EXTEND ST T&B BEY OPENING PE AND NAIL PE	PROVIDE NG FROM BLOCKING NAILING OPENING DJACENT LLS, SEE F 1/S6.6 RAPS AT OND THE IR TABLE		PROVIDE STRAPS ABOVE & BELOW OPENING PER TABLE PROVIDE STRAPS ABOVE & BELOW OPENING PER TABLE PROVIDE DOUBLE STUD (FULL HEIGHT) AT EA. SIDE OF OPENINGS, NAIL SHEATHING PER 1/S6.6 PANEL EDGE NAILING SPACING, TYP.
			NAIL HALF OF STRAP
_		1	HOLES ACROSS OPENING
$\sqrt{7}$ ST	RAPPED S	SHEARWALL D	DETAIL

STRAP TENSION TIE SCHEDULE TIE (1) | Min. # | CLEAR SPAN AND (2) | ASD BUILT-UP STUD FACE MARK of studs TOTAL FASTENERS CAPACITY NAILS or SCREWS (4) MSTC28 | (2)2x | $18" - (12)0.148" \phi \times 3 \frac{1}{4}$ " 10d @ 6" oc MSTC40 | (2)2x | 18" - (28)0.148"ø x 3¼" | 2,690# 10d @ 4" oc (8)¼"øx4½" SDS (3)2x | 18" - (44)0.148"ø x 3¼" | 4,225# (12)¼"øx6" SDS MSTC66 | (3)2x | $18" - (64)0.148" \phi \times 31/4"$ | 5,850 #(2)MSTC52 (4)2x $(18" - (64)0.148" \phi \times 31/4" = 7,750#$ (14)¼"øx6" SDS (2)MSTC66 6x8 18" - (64)0.148"ø x 3¼" 9,800# (12)¼"øx6" SDS

TENSION TII TIE [©] MARK	Min. # of studs	FASTENERS 2	ASD ^③ CAPACITY	BUILT-UP STUD ⁽⁴⁾ FACE NAILS or SCREWS
HDU2^	(2)2x	(6)¼"ø x 2½" SDS	2,750#	10d @ 4" oc
HDU4^	(3)2x	(10)¼"ø x 2½" SDS	3,750#	(10)¼"øx4½" SDS
HDU8^	(4)2x	(20)¼"ø x 2½" SDS	7,750#	(15)¼"øx6" SDS
HDU11^	6x6	(30)¼"ø x 2½" SDS	9,800#	N/A
HDU14^	6x6	(36)¼"ø x 2½" SDS	14,000#	N/A

/— TENSION TIE PER PLAN

- MIN. NUMBER OF STUDS PER

<u>ELEVATION VIEW</u> — TENSION TIE ABOVE BEAM

TABLE OR PLAN (LARGER SIZE

GOVERNS) AT EA. SIDE OF BEAM

- (1) TENSION TIE TYPES REFER TO SIMPSON STRONG-TIE CATALOG CALLOUTS.
- (2) NAIL PLYWOOD SHEATHING TO STUDS RECEIVING HOLDOWN WITH SCHEDULED PANEL EDGE NAILING. STAGGER NAILS SO THAT EACH STUD IS NAILED.
- (3) FASTENERS NOTED IN TABLE ABOVE REPRESENT THE TOTAL AMOUNT. FOR STRAPS, HALF OF THE FASTENERS SHALL BE PROVIDED INTO EACH STUD.
- 4 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:

 - HDU11^ 1/8" Ø ROD w/ BEARING PL 1/2"x5"x0'-5" AND RECESSED NUT & WASHER 16 TOTAL SDW EWP-PLY SCREWS, SEE 5/S6.5 HDU14^ 1/8" Ø ROD w/ BEARING PL 1/2"x5"x0'-5" AND RECESSED NUT & WASHER 22 TOTAL SDW EWP-PLY SCREWS, SEE 5/S6.5

NAIL END STUDS PER NOTE 2 ABOVE STRAP TENSION TIE PER PLAN AND TABLE NOTCH SHEATHING TO ALLOW STRAP TO PASS THROUGH		ASTENER ER TABLE
MAX CLEAR — FULL WIDTH BLKG. SPAN PER BTWN. POSTS TABLE RECEIVING STRAPS		CREWS ER 5/S6.5
	FASTENER PER TABLE TRANSFER BEAM PER PLAN TENSION TIE FROM BEAM TO PO BELOW TO MATCH TENSION TIE OUT IN PLAN ABOVE BEAM NOT	CALLED

<u>ELEVATION VIEW</u> - TYPICAL CONDITION

WALL BELOW -

CONTINUES

WHERE OCCURS

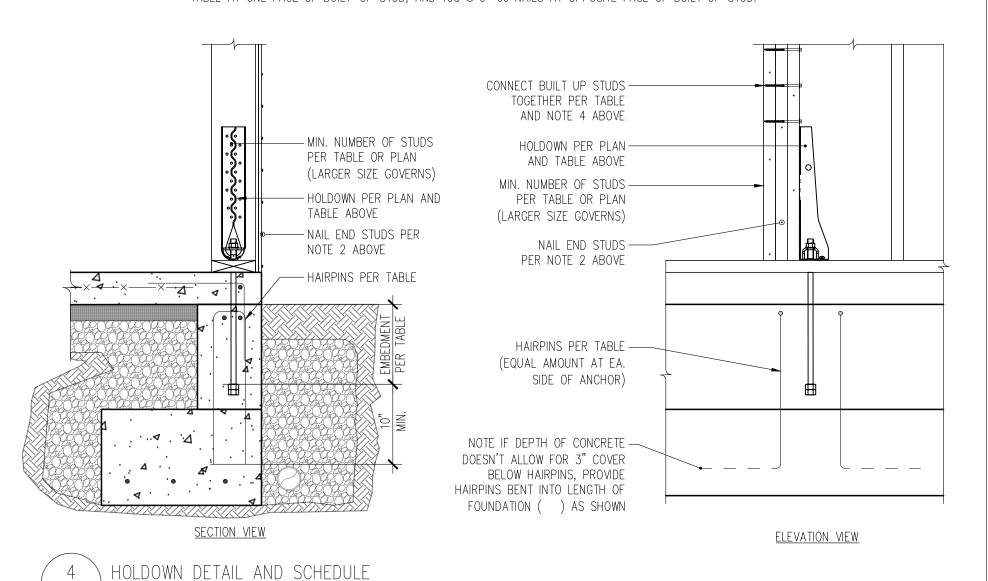
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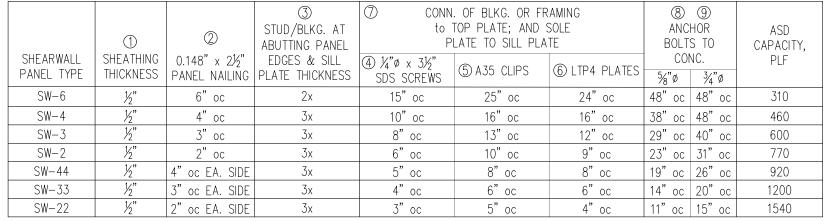
HOLDOWN TENSION TIE SCHEDULE								
TIE ^① MARK	MIN. NUMBER ② OF STUDS	ANCHOR (Ø x EMBEDMENT) $^{rac{ ext{$rac{3}{ ext{$}}}}{ ext{$}}}$ and No. OF HAIRPIN DOWELS	FASTENERS FROM TIE TO STUD	ASD CAPACITY	BUILT-UP STUD FACE NAILS or SCREWS ④			
HDU2	(2)2x	5%"ø x 10" − (2)#4 HAIRPIN	(6)¼"ø x 2½" SDS SCREWS	3,075#	10d @ 4" oc			
HDU4	(3)2x	%"ø x 10" − (2)#4 HAIRPIN	(10)1/4"ø x 21/2" SDS SCREWS	4,565#	(9)¼"øx4½" SDS			
HDU5	(3)2x	%"ø x 10" − (2)#4 HAIRPIN	(14)1/4"ø x 21/2" SDS SCREWS	5,645#	(10)¼"øx4½" SDS			
HDU8	(4)2x	%"ø x 10" − (4)#4 HAIRPIN	(20)1/4"ø x 21/2" SDS SCREWS	7,870#	(15)¼"øx6" SDS			
HDU11	6x6	1"ø x 10" - (4)#4 HAIRPIN	(30)1/4"ø x 21/2" SDS SCREWS	11,175#	N/A			
HDU14	6x6	1"ø x 10" - (6)#4 HAIRPIN	(36)¼"ø x 2½" SDS SCREWS	14,445#	N/A			

- 1 TENSION TIE TYPES REFER TO SIMPSON STRONG-TIE CATALOG CALLOUTS.
- 2) NAIL PLYWOOD SHEATHING TO STUDS RECEIVING HOLDOWN WITH SCHEDULED PANEL EDGE NAILING. STAGGER NAILS SO THAT EACH STUD IS NAILED.
- 3 ANCHORS SHALL BE HEAVY HEX HEAD WITH DOUBLE NUT CAST INTO CONCRETE.

 ASTM F 1554 Gr. 36 FOR 18" ANCHOR

 ASTM F 1554 Gr. 55 FOR 18" AND 1" ANCHORS
- 4 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.



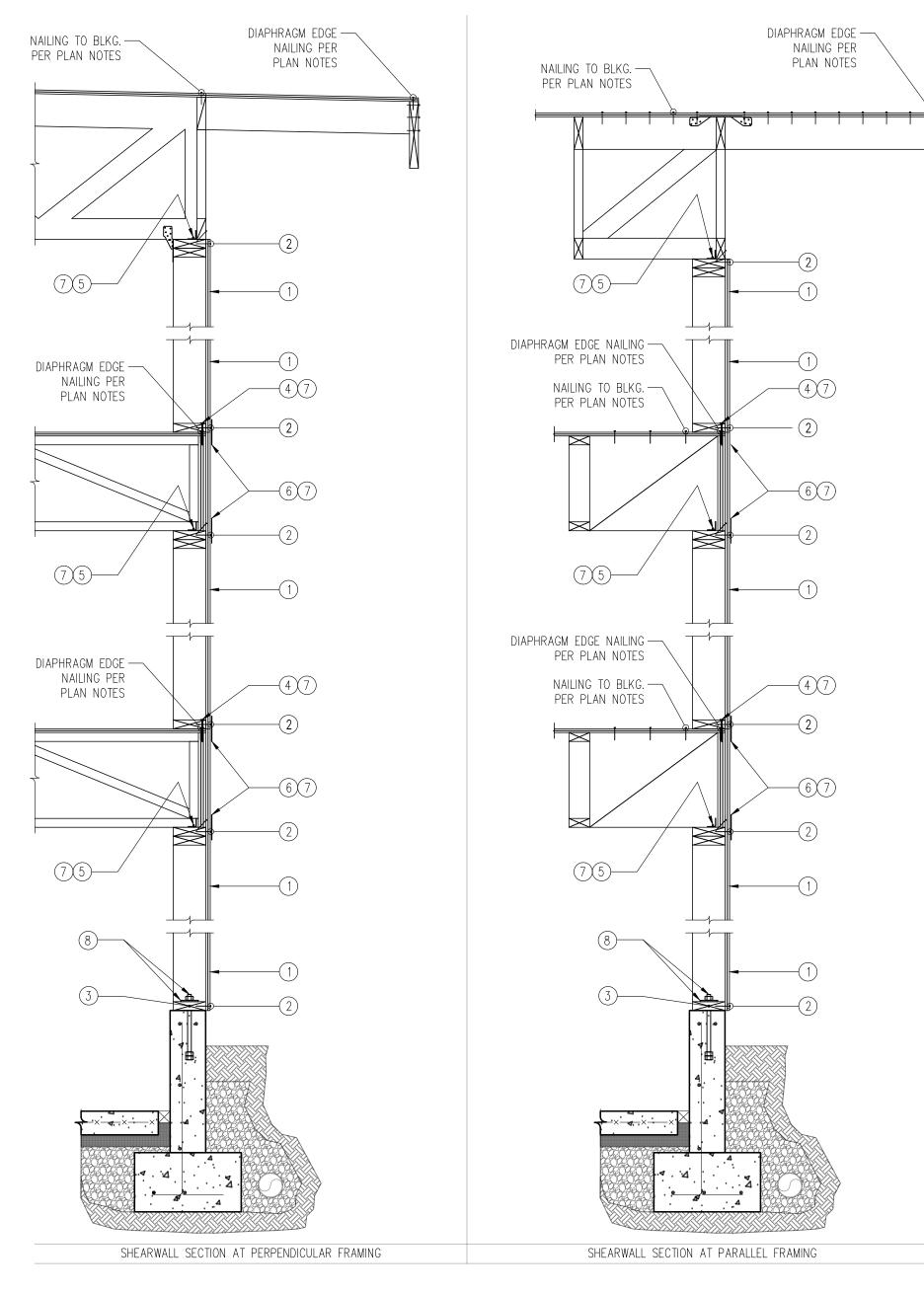


- (1) SHEATHING SHALL CONSIST OF 1/2" PLYWOOD AND HAVE A MINIMUM SPAN RATING OF 24%. AT INTERIOR SHEARWALLS ONLY, 15/32" OSB MAY BE USED
- 2 PANEL NAILING APPLIES TO ALL SHEATHING PANEL EDGES. INSTALL BLOCKING AT ALL UNFRAMED PANEL EDGES. ENSURE SHEATHING IS NAILED TO ALL INTERMEDIATE STUDS/BLOCKING WITH PANEL NAILS AT 12"oc
- 3 DOUBLE 2x MEMBERS MAY BE SUBSTITUTED FOR 3x MEMBERS AT WALLS WITH ONLY ONE LAYER OF SHEATHING. 2x MEMBERS SHALL BE NAILED TOGETHER WITH 8d FACE: @ 4" oc FOR SW-6, @ 3" oc FOR SW-4, @ 2" oc FOR SW-3, AND (2)@ 3" oc FOR SW-2 (116#/NAIL)
- ROWS OF NAILS AND SDS SCREWS SHALL BE OFFSET AT LEAST ½" AND STAGGERED. MINIMUM EDGE DISTANCE FOR NAILS AND SDS SCREWS INTO EDGE OF MEMBERS SHALL BE 5%" (400#/SCREW)
- (5) A35 CLIPS SHALL BE INSTALLED w/ (12)0.131 x 1½ " NAILS (650#/CLIP)
- 6 LTP4 LATERAL TIE PLATES MAY BE INSTALLED OVER SHEATHING w/ (12)0.131 x 2½" NAILS (625#/CLIP)
- (7) CONTRACTOR SHALL USE

 A35 CLIPS TO CONNECT ROOF TRUSS TO DOUBLE TOP PLATE

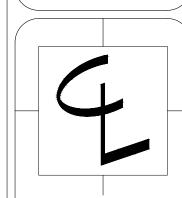
 SDS SCREWS or LTP4 CLIPS TO CONNECT SOLE PLATE TO FLOOR TRUSS RIM BOARD

 A35 OR LT4P CLIPS TO CONNECT FLOOR TRUSS TIM BOARD TO DOUBLE TOP PLATE
- 8 PLATE WASHERS IN 2x4 STUD WALLS AND <u>ALL</u> SINGLE SIDED SHEAR WALLS SHALL BE 3"x3"x0.229". DOUBLE SIDED 2x6 SHEAR WALLS SHALL HAVE 4½"x3"0.229" PLATE WASHERS. THE EDGE OF PLATE WASHERS SHALL BE LOCATED WITHIN ½" OF THE EDGE OF BOTTOM PLATE ON THE SIDE WITH SHEATHING.
- 9 CAST ANCHORS A MINIMUM OF 7" INTO CONCRETE. INSTALL ADDITIONAL ANCHOR BOLTS AT EACH SIDE OF PLATE BREAKS AND PENETRATIONS EXCEEDING THE "NO REINFORCING" HOLE SIZE PER 2/S6.1.



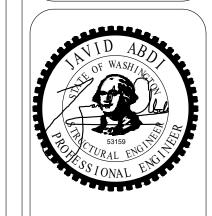


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CONTENTS

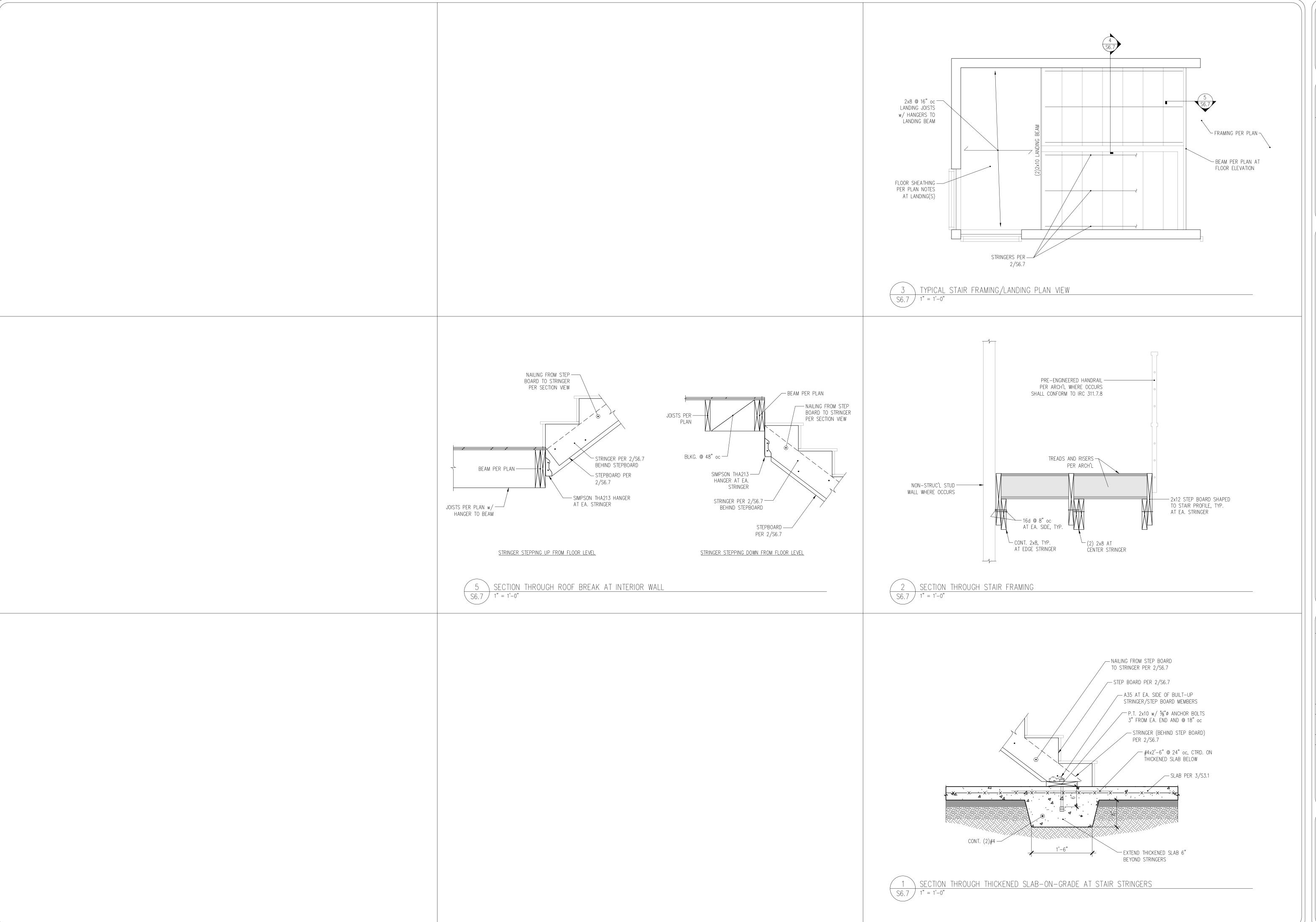
Lateral Force Resisting System Schedules & Details

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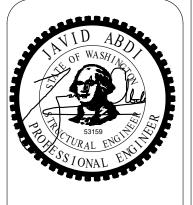
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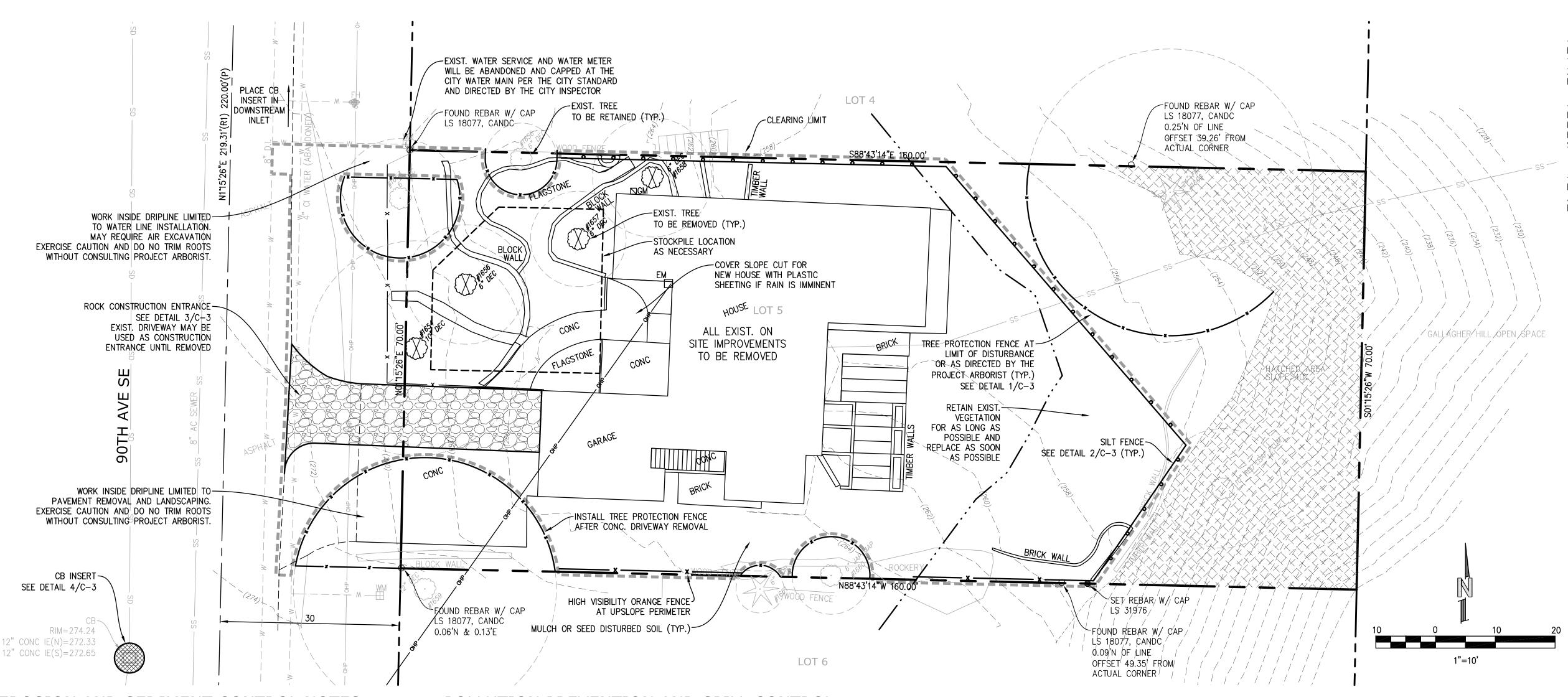
CONTENTS

Typical Stair Framing Details

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10.18.22



EROSION AND SEDIMENT CONTROL NOTES

- 1. APPROVAL OF THIS EROSION AND SEDIMENT CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
- 2. 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.
- 3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY A CONTINUOUS LENGTH OF SURVEY TAPE (OR FENCING, IF REQUIRED) PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE
- APPLICANT/ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION. 4. 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. 5. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.).
- 6. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES DURING THE WET SEASON (OCT. 1 TO APRIL 30) AND OF MONTHLY REVIEWS DURING THE DRY SEASON (MAY 1 TO SEPT. 30).
- ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
- 8. ANY AREA NEEDING ESC MEASURES NOT REQUIRING IMMEDIATE ATTENTION SHALL BE ADDRESSED
- WITHIN FIFTEEN (15) DAYS. 9. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN FORTY-EIGHT (48) HOURS FOLLOWING A STORM EVENT.
- 10. 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.
- 11. STABILIZED CONSTRUCTION ENTRANCES AND ROADS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- 12. ANY PERMANENT FLOW CONTROL FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY MUST BE GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEET ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY.
- 13. WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 2 TO 3 INCHES.
- 14. PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON. A SKETCH MAP OF THOSE AREAS TO BE SEEDED AND THOSE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE DDES INSPECTOR. THE DDES INSPECTOR CAN REQUIRE SEEDING OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATERS, ADJACENT PROPERTIES, OR DRAINAGE FACILITIES.

POLLUTION PREVENTION AND SPILL CONTROL

STORAGE AND HANDLING OF LIQUIDS MINIMIZE AMOUNT OF LIQUIDS STORED ON SITE.

- 2. STORE AND CONTAIN LIQUID MATERIALS IN SUCH A MANNER THAT IF A VESSEL IS RUPTURED OR LEAKS, THE CONTENTS WILL NOT DISCHARGE, FLOW, OR BE WASHED INTO THE STORM DRAINAGE SYSTEM, SURFACE WATERS, OR GROUNDWATER. TYPICALLY THIS MEANS INSTALLING SECONDARY CONTAINMENT, SUCH AS A LINED EXCAVATION, LARGER CONTAINER, OR USING A DOUBLE-WALLED TANK OR SIMILAR COMMERCIALLY AVAILABLE CONTAINMENT FACILITY.
- 3. PLACE TIGHT-FITTING LIDS ON ALL CONTAINERS.
- 4. ENCLOSE OR COVER THE CONTAINERS WHERE THEY ARE STORED TO PROTECT FROM RAIN. THE LOCAL FIRE DISTRICT MUST BE CONSULTED FOR LIMITATIONS ON CLEARANCE OF ROOF COVERS OVER CONTAINERS USED TO STORE FLAMMABLE MATERIALS.
- 5. RAISE THE CONTAINERS OFF THE GROUND BY USING A SPILL CONTAINMENT PALLET OR SIMILAR METHOD THAT HAS PROVISIONS FOR SPILL CONTROL.
- 6. PLACE DRIP PANS OR ABSORBENT MATERIALS BENEATH ALL MOUNTED CONTAINER TAPS, AND AT ALL POTENTIAL DRIP AND SPILL LOCATIONS DURING FILLING AND UNLOADING OF CONTAINERS. ANY COLLECTED LIQUIDS OR SOILED ABSORBENT MATERIALS MUST BE REUSED, RECYCLED, OR PROPERLY DISPOSED OF.
- 7. STORE AND MAINTAIN ABSORBENT PADS OR APPROPRIATE SPILL CLEANUP MATERIALS NEAR THE CONTAINER STORAGE AREA, IN A LOCATION KNOWN TO ALL. ENSURE THAT EMPLOYEES ARE FAMILIAR WITH THE SITE'S SPILL PLAN AND/OR PROPER SPILL CLEANUP PROCEDURES.
- 8. CHECK CONTAINERS (AND ANY CONTAINMENT SUMPS) DAILY FOR LEAKS AND SPILLS. REPLACE CONTAINERS THAT ARE LEAKING, CORRODED, OR OTHERWISE DETERIORATING. IF THE LIQUID CHEMICALS ARE CORROSIVE, CONTAINERS MADE OF COMPATIBLE MATERIALS MUST BE USED INSTEAD OF METAL DRUMS. NEW OR SECONDARY CONTAINERS MUST BE LABELED WITH THE PRODUCT NAME AND HAZARDS.
- 9. PLACE DRIP PANS OR ABSORBENT MATERIALS BENEATH A CONTAINER THAT IS FOUND TO BE LEAKING. REMOVE THE DAMAGED CONTAINER AS SOON AS POSSIBLE. MOP UP THE SPILLED LIQUID WITH ABSORBENT PADS OR RAGS. ANY COLLECTED LIQUIDS OR SOILED ABSORBENT MATERIALS MUST BE REUSED, RECYCLED, OR PROPERLY DISPOSED OF.
- 1. LOCATE THE FUELING OPERATION TO ENSURE LEAKS OR SPILLS WILL NOT DISCHARGE, FLOW, OR BE
- WASHED INTO THE STORM DRAINAGE SYSTEM, SURFACE WATER, OR GROUNDWATER. 2. USE DRIP PANS OR ABSORBENT PADS TO CAPTURE DRIPS OR SPILLS DURING FUELING OPERATIONS.
- 3. IF FUELING IS DONE DURING EVENING HOURS, LIGHTING MUST BE PROVIDED.
- 4. STORE AND MAINTAIN APPROPRIATE SPILL CLEANUP MATERIALS IN THE MOBILE FUELING VEHICLE. ENSURE THAT EMPLOYEES ARE FAMILIAR WITH PROPER SPILL CONTROL AND CLEANUP PROCEDURES.
- 5. IMMEDIATELY MOP UP ANY SPILLED FUEL WITH ABSORBENT PADS OR RAGS. ANY COLLECTED LIQUIDS OR SOILED ABSORBENT MATERIALS MUST BE REUSED, RECYCLED, OR PROPERLY DISPOSED OF.
- CONCRETE SAW CUTTING, SLURRY, AND WASHWATER DISPOSAL 1. SLURRY FROM SAW CUTTING THE SIDEWALK SHALL BE VACUUMED SO THAT IT DOES NOT ENTER NEARBY
- STORM DRAINS. 2. CONCRETE TRUCK CHUTES, PUMPS, AND INTERNALS SHALL BE WASHED OUT ONLY INTO FORMED AREAS
- AWAITING INSTALLATION OF CONCRETE. 3. UNUSED CONCRETE REMAINING IN THE TRUCK AND PUMP SHALL BE RETURNED TO THE ORIGINATING BATCH
- PLANT FOR RECYCLING. 4. HAND TOOLS INCLUDING, BUT NOT LIMITED, SCREEDS, SHOVELS, RAKES, FLOATS, AND TROWELS SHALL BE WASHED OFF ONLY INTO FORMED INTO FORMED AREAS AWAITING INSTALLATION OF CONCRETE OR
- 5. EQUIPMENT THAT CANNOT BE EASILY MOVED, SUCH AS CONCRETE PAVERS, SHALL ONLY BE WASHED IN
- AREAS THAT DO NOT DIRECTLY DRAIN TO NATURAL OR CONSTRUCTED STORMWATER CONVEYANCES. 6. WASHDOWN FROM AREAS SUCH AS CONCRETE AGGREGATE DRIVEWAY SHALL NOT DRAIN DIRECTLY TO
- NATURAL OR CONSTRUCTED STORMWATER CONVEYANCES. 7. WHEN NO FORMED AREAS ARE AVAILABLE, WASHWATER AND LEFTOVER PRODUCT SHALL BE CONTAINED IN
- A LINED CONTAINER. CONTAINED CONCRETE SHALL BE DISPOSED OF IN A MANNER THAT DOES NOT VIOLATE GROUNDWATER OR SURFACE WATER QUALITY STANDARDS.
- 8. CONTAINERS SHALL BE CHECKED FOR HOLES IN THE LINER DAILY DURING CONCRETE POURS AND REPLACED THE SAME DAY.

BASIS OF BEARINGS

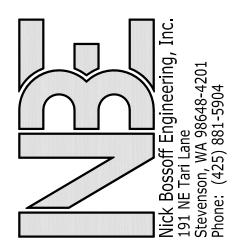
BEARINGS AND COORDINATES USED FOR THIS SURVEY ARE BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD83) WASHINGTON NORTH ZONE AND WERE ESTABLISHED USING RTK GPS WITH SMARTNET REFERENCE NETWORK.

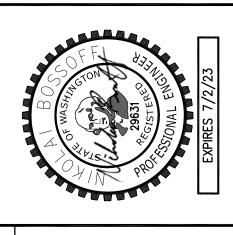
LEGAL DESCRIPTION

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

VERTICAL DATUM

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





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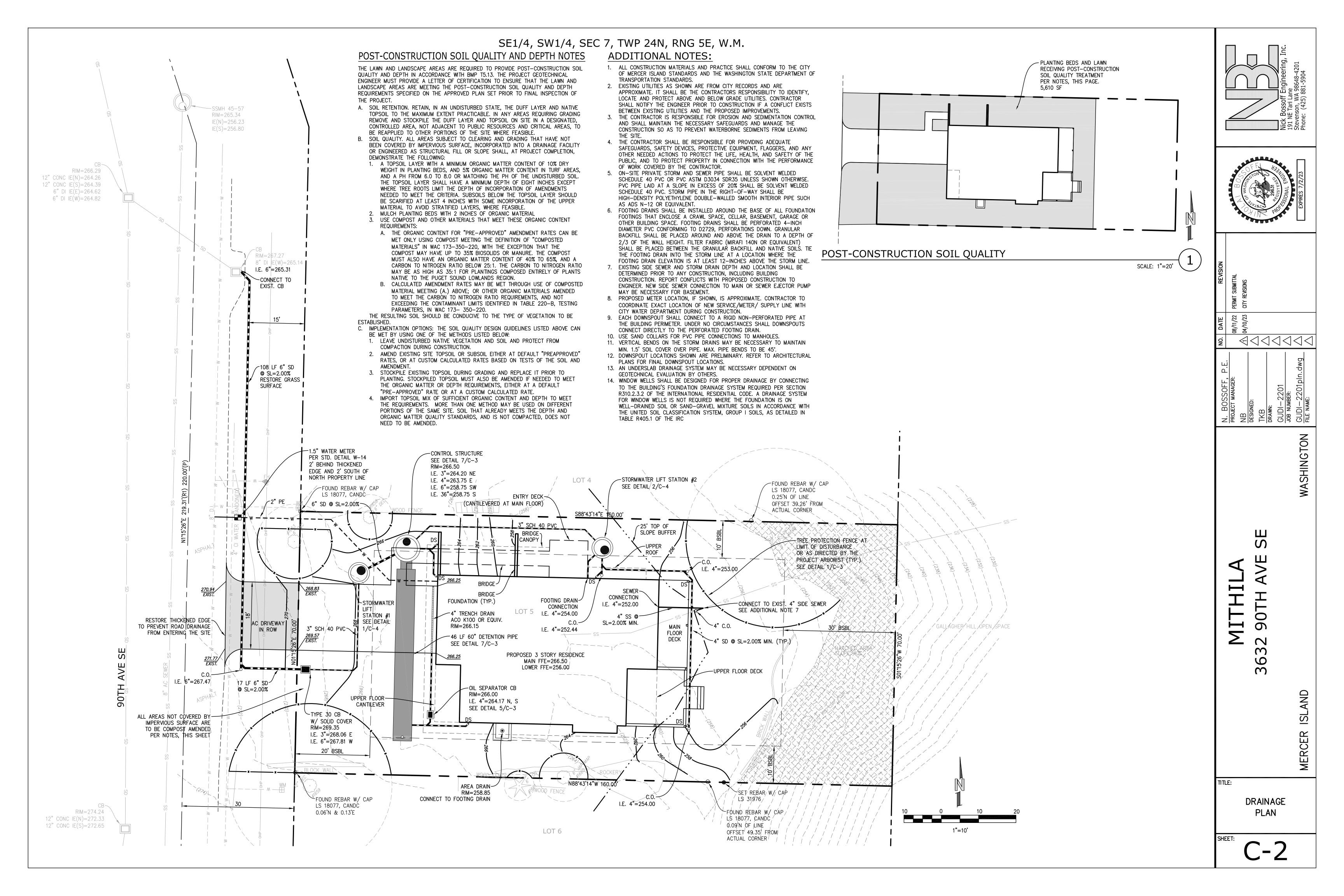
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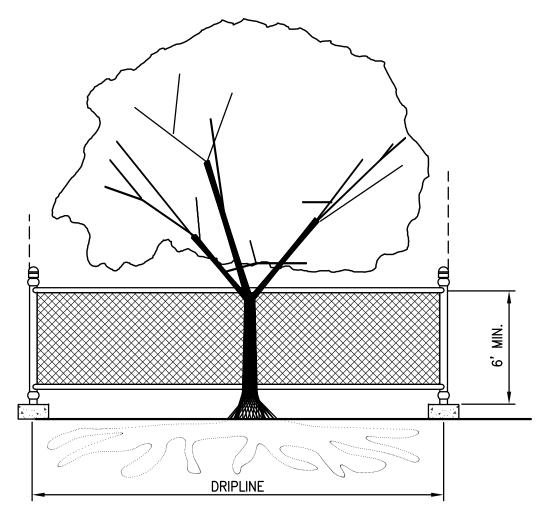
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T.E.S.C. PLAN

CALL 48 HOURS BEFORE YOU DIG 1-800-424-5555



SE1/4, SW1/4, SEC 7, TWP 24N, RNG 5E, W.M.



TREE PROTECTION DURING CONSTRUCTION

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



OIL SEPARATOR CB

TRAFFIC RATED SOLID
COVER AND FRAME
RIM=266.00

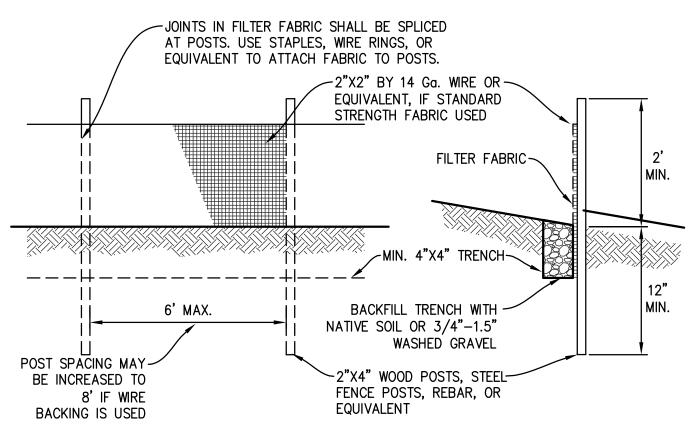
3" MIN.

4" PVC OUTLET
I.E.=264.17 N

REMOVABLE 4"#
PVC TEE

TYPE 40 CB

SCALE: NTS



NOTE: FILTER FABRIC FENCE SHALL BE INSTALLED ALONG CONTOUR WHENEVER POSSIBLE.

MAINTENANCE STANDARDS

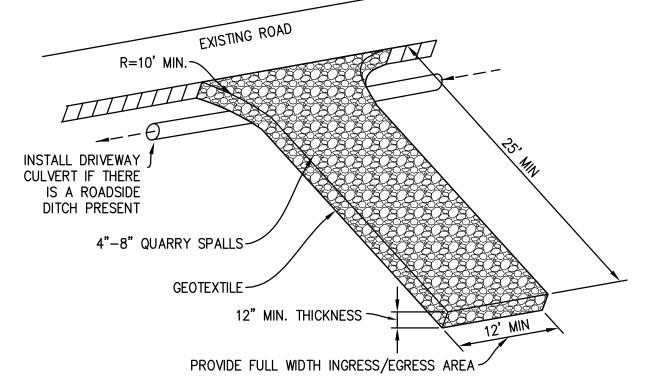
SILT FENCE

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

IF THE FILTER FABRIC HAS DETERIORATED DUE TO ULTRAVIOLET BREAKDOWN, IT SHALL BE RE

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SCALE: NTS



MAINTENANCE STANDARDS

- 1. QUARRY SPALLS (OR HOG FUEL) SHALL BE ADDED IF THE PAD IS NO LONGER IN ACCORDANCE WITH THE SPECIFICATIONS.
- 2. IF THE ENTRANCE IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT, THEN ALTERNATIVE MEASURES TO KEEP THE STREETS FREE OF SEDIMENT SHALL BE USED. THIS MAY INCLUDE STREET SWEEPING, AN INCREASE IN THE DIMENSIONS OF THE ENTRANCE, OR THE INSTALLATION OF A WHEEL WASH. IF WASHING IS USED, IT SHALL BE DONE ON AN AREA COVERED WITH CRUSHED ROCK, AND WASH WATER SHALL DRAIN TO A SEDIMENT TRAP OR POND.
- 3. ANY SEDIMENT THAT IS TRACKED ONTO PAVEMENT SHALL BE REMOVED IMMEDIATELY BY SWEEPING. THE SEDIMENT COLLECTED BY SWEEPING SHALL BE REMOVED OR STABILIZED ON—SITE. THE PAVEMENT SHALL NOT BE CLEANED BY WASHING DOWN THE STREET, EXCEPT WHEN SWEEPING IS INEFFECTIVE AND THERE IS A THREAT TO PUBLIC SAFETY. IF IT IS NECESSARY TO WASH THE STREET, THE CONSTRUCTION OF A SMALL SUMP SHALL BE CONSIDERED. THE SEDIMENT WOULD THEN BE WASHED INTO THE SUMP.
- SMALL SUMP SHALL BE CONSIDERED. THE SEDIMENT WOULD THEN BE WASHED INTO THE SUMP.

 4. ANY ROCK SPALLS THAT ARE LOOSENED FROM THE PAD AND END UP ON THE ROADWAY SHALL BE REMOVED IMMEDIATELY.

5. IF VEHICLES ARE ENTERING OR EXITING THE SITE AT POINTS OTHER THAN THE CONSTRUCTION

ENTRANCE(S), FENCING (SECTION 5.4.1) SHALL BE INSTALLED TO CONTROL TRAFFIC.

ROCK CONSTRUCTION ENTRANCE

SCALE: NTS

CB INSERT

ADAPTOR SKIRT-

TRIM TO WITHIN 3" - 5" OF GRATE

GEOTEXTILE -

FABRIC

UPON PLACEMENT OF A NEW CATCH BASIN.

1. INSERT SHALL BE INSTALLED PRIOR TO CLEARING AND GRADING ACTIVITY, OR

2. SEDIMENT SHALL BE REMOVED FROM THE UNIT WHEN IT BECOMES HALF FULL.

3. SEDIMENT REMOVAL SHALL BE ACCOMPLISHED BY REMOVING THE INSERT,

EMPTYING, AND RE-INSERTING IT INTO THE CATCH BASIN.

SCALE: NTS

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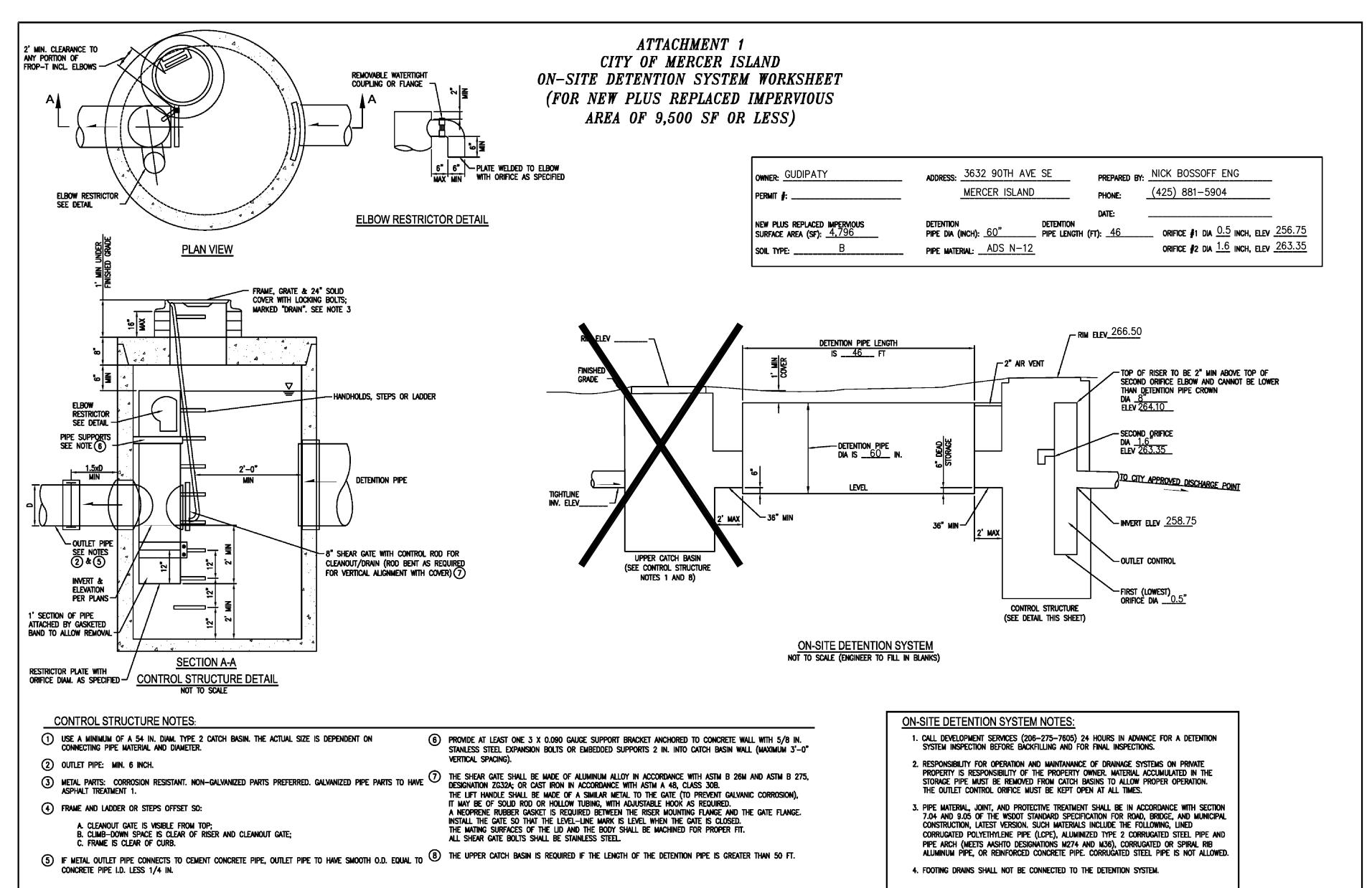
OVERFLOW BYPASS

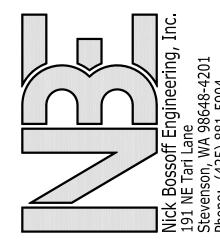
FOR PEAK STORM

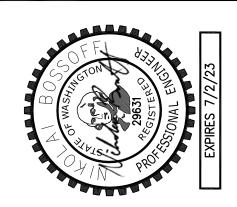
ACCUMULATION

VOLUMES

-SEDIMENT







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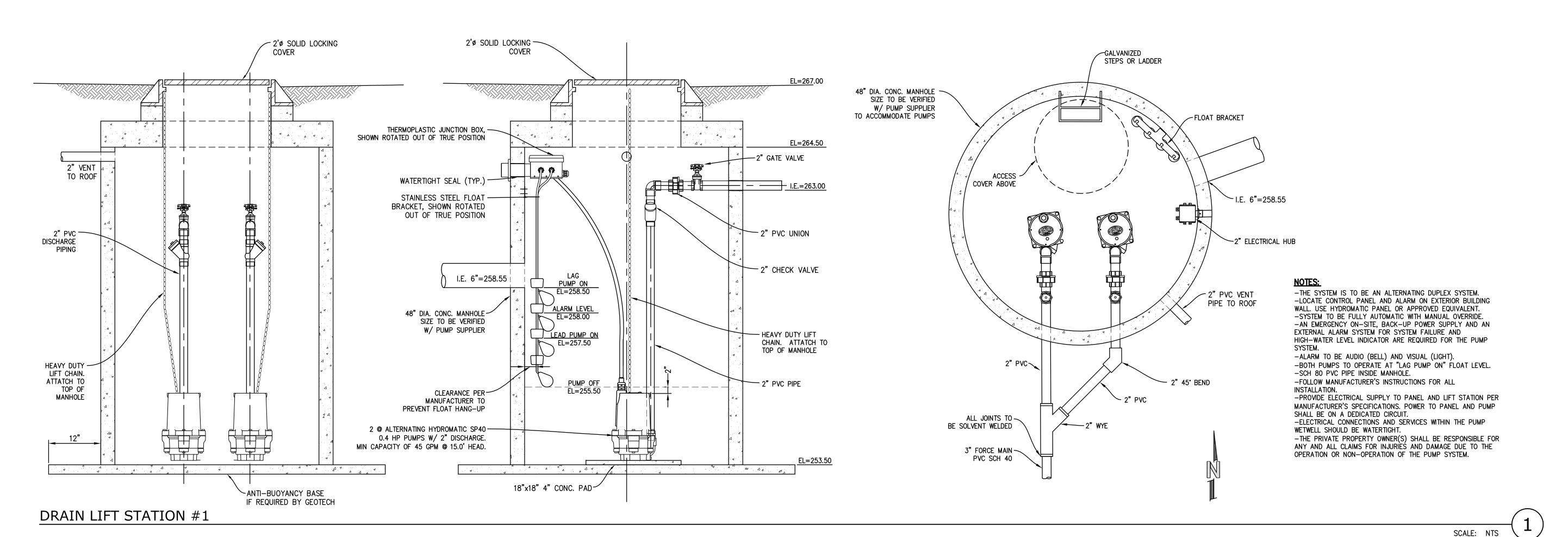
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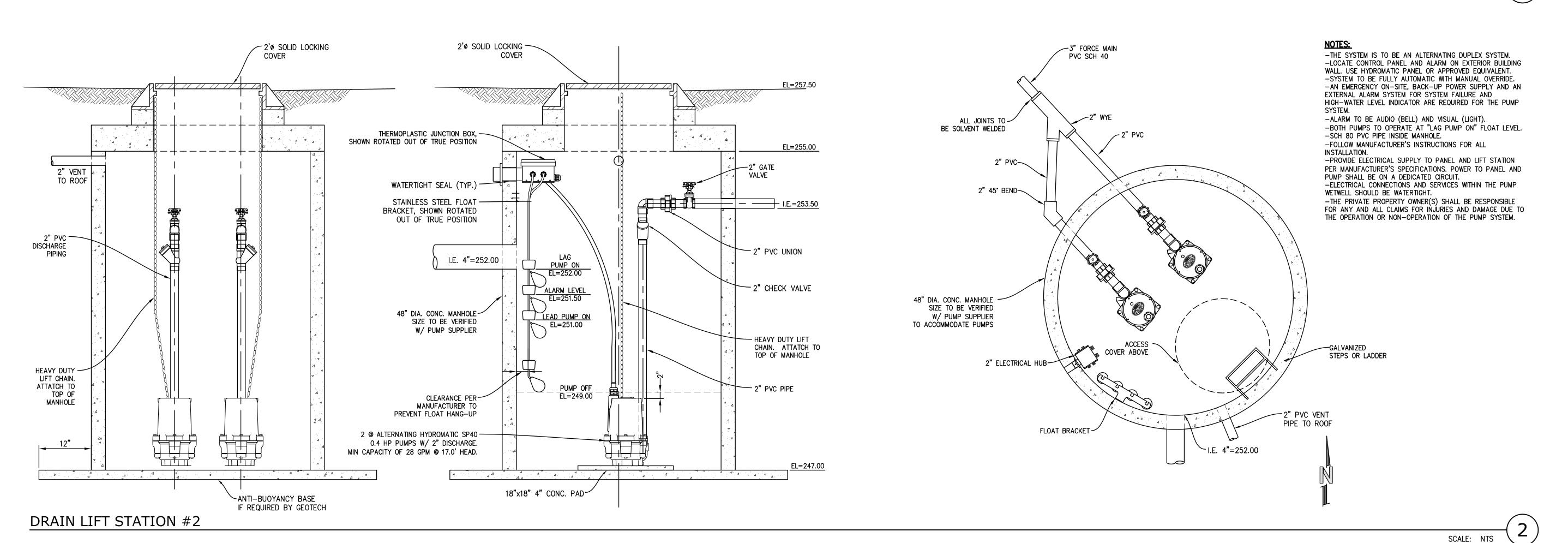
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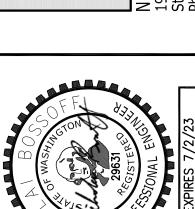
DETAILS

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Nick Bossoff Engineering, Inc.



08/11/22 PERMIT SUBMITTAL

08/11/22 CITY REVISIONS

CITY REVISIONS

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