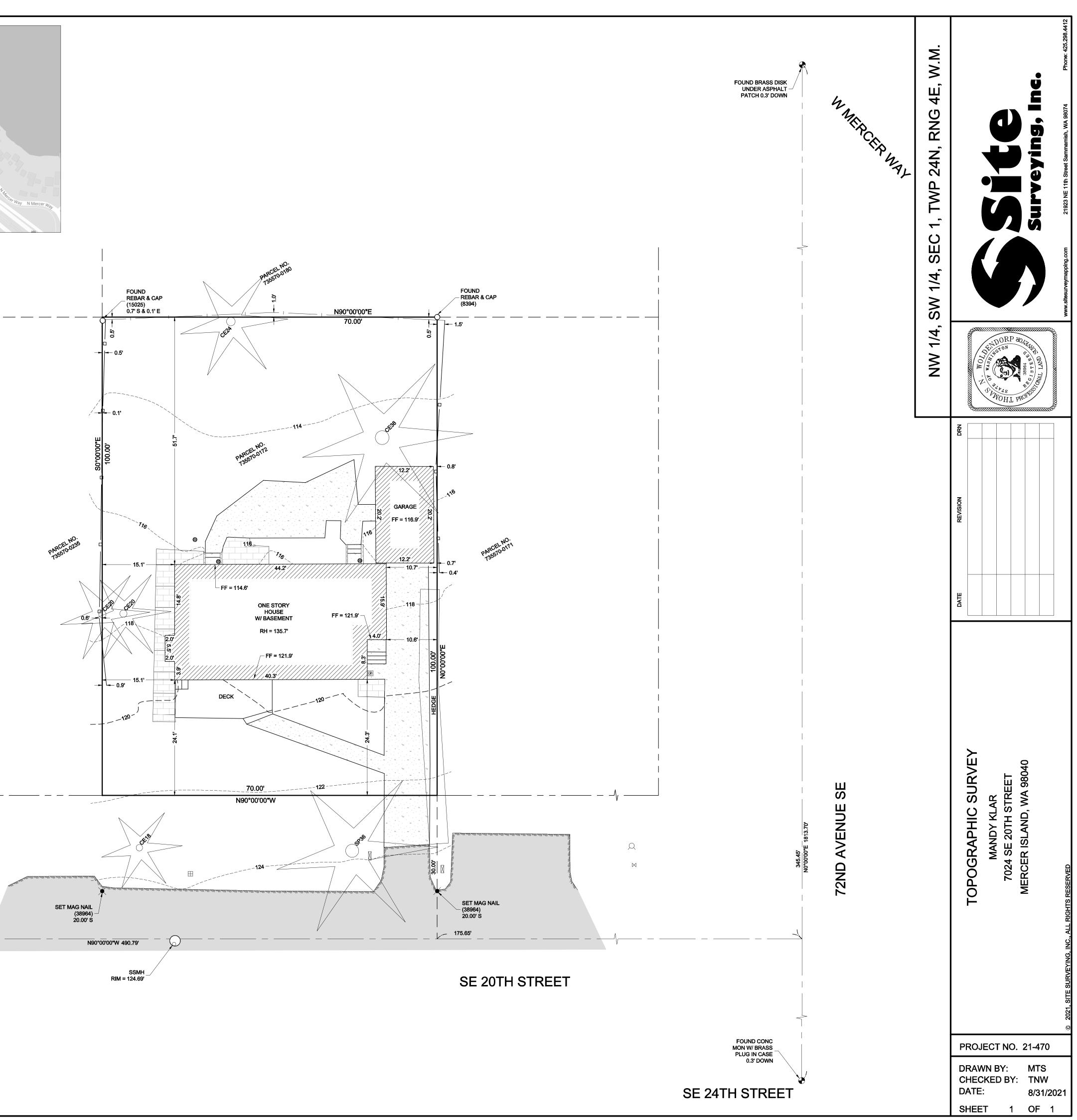


VICINITY MAP NTS





]			
	SECTION 406	SECTION 406 ENERGY CREDITS		
CODES	SLCHON 400		LUMBER STRENGTHS	VICINITY MAP
THIS DESIGN IS IN ACCORDANCE WITH THE FOLLOWING	ENERGY EFFICIENCY OPENITO	(CONT'D.)	FRAMING MEMBER TYPE Fb Fv Fcl E x 10 ⁶	
CODES AS AMENDED BY THE STATE OF WASHINGTON:	ENERGY EFFICIENCY CREDITS		JOISTS AND RAFTERS (HEM-FIR #2) 850 150 405 1.3	warman -
2018 INTERNATIONAL RESIDENTIAL CODE (IRC)	R406 - ADDITIONAL ENERGY EFFICIENCY REQUIREMENTS		BEAMS (4" NOM. D.F. #2) 900 180 625 1.6	
2018 WASHINGTON STATE ENERGY CODE (WSEC) FROM 2015 IECC	CREDITS REQUIRED		BEAMS (6" NOM. D.F. #1) 1350 170 625 1.6	
2018 INTERNATIONAL MECHANICAL CODE (IMC)	ADDITIONS-<500 SF: 1.5		LAMINATED STRAND LUMBER (LSL) 1,700 425 710 1.3	
2018 UNIFORM PLUMBING CODE (UPC)	SMALL DWELLING UNIT <1,500 SF: 3.0	SECTION 406	LAMINATED STRAND LUMBER (LSL) 2325 310 900 1.55	
2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION	MEDIUM DWELLING UNIT (ALL NOT INCLUDED IN #1, #3, or #4): 6.0	ENERGY EFFICIENCY CREDITS FOOTNOTES:		
(NDS)	LARGE DWELLING UNIT >5,000 SF: 7.0	Footnote a:		
	FUEL NORMALIZATION CREDIT REQUIREMENTS	a. An alternative heating source sized at a maximum of 0.5	PARALLEL STRAND LUMBER (PSL) 2900 290 750 2.2	
2018 WSEC NOTES			GLU-LAMINATED TIMBERS 2400 265 650 1.8	
	SELECTED FROM TABLE 406.2: CREDITS	is bigger, may be installed in the dwelling unit.	POSTS Fb Fv FcII E x 10 ⁶	
1. THE THERMAL ENVELOPE SHALL BE CONSTRUCTED TO	2 For an initial heating system using a heat pump that meets 1.0		4" NOM. D.F. #1 1000 180 1500 1.7	
LIMIT AIR LEAKAGE PER SECTION R402.4.1 THROUGH	federal standards for the equipment listed in Table C403.3.2(1)C or C403.3.2(2)		6" NOM. D.F. #1 1200 170 1000 1.6	Roanok
R402.4.5 AND SHALL BE TESTED PER SECTION	ADDITIONAL ENERGY EFFICIENCY REQUIREMENTS		2x STUDS H.F. "STUD" 675 150 800 1.2	
R402.4.1.2, SEE TABLE R402.4.1.1 FOR AIR BARRIER			APA RATED SHEATHING EXPOSURE SPAN RATING	
AND INSULATION INSTALLATION.	SELECTED FROM TABLE 406.3: CREDITS		ROOF EXTERIOR 32/16	PROJECT
	3.2 ^a HIGH EFFICIENCY HVAC EQUIPMENT 3.2 ^a : 1.0		WALL EXTERIOR 24/0	
SECTION 404.	Air-source centrally ducted heat pump with minimum HSPF of		FLOOR (T&G) EXTERIOR 48/24	I OCATION
3. HVAC DUCTS SHALL BE SEALED AND LEAK TESTED AS	9.5.			
REQUIRED PER SECTION 403.3.2.	To qualify to claim this credit, the building permit drawings		LOADING & DEFLECTION	Roanoke Park -
4. OPEN-BLOWN OR POURED LOOSE FILL INSULATION MAY	shall specify the option being selected and shall specify the		LOADING (PSF) DEFLECTION	A / Mercer Island
BE USED ONLY WHEN THE CEILING IS 3:12 SLOPE OR	heating equipment type and the minimum equipment			SE 20th St
LESS AND THERE IS AT LEAST 30" OF CLEAR SPACE	efficiency. footnote a		LIVEDEADTOTALLIVETOTALTYPE OF CONSTRUCTIONLOADLOADLOADLOADLOAD	
FROM THE TOP OF THE BOTTOM TRUSS CHORD TO THE	5.3EFFICIENT WATER HEATING 5.3:1.0	T0TAL CREDITS PROVIDED: 6.0		
ROOF SHEATHING, SEE SECTION R402.2.1.1	Water heating system shall include one of the following:		ROOF (STICK, COMP. OR MTL.) 25 10 35 L/240 L/240	
5. OPEN-BLOWN, POURED OR SPRAY APPLIED	Energy Star rated gas or propane water heater with a	ENERGY CODE SUMMARY	ROOF (STICK, COMP. G.W.B.) 25 15 40 L/240 L/240	
ROOF/CEILING INSULATION SHALL BE IDENTIFIED BY	minimum UEF of 0.91		ROOF (TRUSS, COMP. G.W.B.) 25 15 40 L/240 L/240	
INCHES OF THICKNESS W/ DENSITY AND R-VALUE	To qualify to claim this credit, the building permit drawings	COMPONENT REQUIREMENTS PER TABLES R402.1.1 & PROJECT	CEILING ONLY1 10 5 15 L/240 L/240	
MARKERS INSTALLED AT ONE FOR EVERY 300SF	shall specify the option being selected and shall specify the	R402.1.3, 2015 WSEC SPECIFIC	ATTIC W/LIMITED STORAGE ² 20 5 25 L/240 L/240	
THROUGH THE ATTIC SPACE PER SECTION R303.1.1.1	heating equipment type and the minimum equipment	R-VALUE U-FACTOR REQUIREMENTS	HABITABLE ATTIC 30 10 40 L/240 L/240	90 tunn
6. A PERMANENT CERTIFICATE SHALL BE POSTED WITHIN	efficiency.	FENESTRATION N.A. 0.30	FLOOR 40 10 50 L/480 L/240	YIK i
3 FEET OF THE ELECTRICAL PANEL AND IS TO BE	6.1 RENEWABLE ELECTRIC ENERGY 6.1: 3.0	≤24 S.F. OPAQUE DOOR EXEMPT EXEMPT	DECK (CONC. PAVER) 60 10+30 100 L/480 L/240	
COMPLETED BY THE BUILDER OR REGISTERED DESIGN	For each 1200 kWh of electrical generation per housing unit	≤15 S.F. GLAZED FEN. EXEMPT EXEMPT	DECK (SPACED WOOD) 60 10 70 L/480 L/240	GENERAL NOTES
PROFESSIONAL PER SECTION R401.3, THE CERTIFICATE SHALL INCLUDE:	provided annually by on-site wind or solar equipment a 1.0	SKYLIGHTS N.A. 0.50	EXTERIOR WALL - 10 10	
a. PREDOMINANT R-VALUES OF INSTALLED	credit shall be allowed, up to 3 credits. Generation shall be	CEILINGS (TRUSSES) R-49 0.026	INTERIOR WALL - 10 10	
A. FREDOMINANT R-VALUES OF INSTALLED INSULATION.	calculated as follows:	SINGLE RAFTER CEILINGS R-38 0.026	STAIRS 40 10 50 L/480	
b. U-FACTORS AND SHGC OF WINDOWS AND	For solar electric systems, the design shall be demonstrated to	CEILINGS PER R402.2.1 R-38 0.026	ASSUMED SOIL BEARING = 1,500 PSF	
SKYLIGHTS INSTALLED AT THE HEATED	meet this requirement using the National Renewable Energy	WOOD FRAMED WALLS R-21 (INT.) 0.056	1. UNINHABITABLE ATTIC W/O STORAGE, DO NOT USE IF ANY	
ENVELOPE.	Laboratory calculator PVWATTs or approved alternate by the	FLOORS R-30 0.029	OTHER LIVE LOAD IS ALREADY APPLIED.	
c. THE TYPE AND EFFICIENCY OF HVAC AND WATER	code official.	R-30 0.029 BELOW GRADE WALLS R-10 C.I. EXT. 0.042	2. ATTIC W/ LIMITED STORAGE DEFINED AS:	
HEATING EQUIPMENT.	Documentation noting solar access shall be included on the	R-10 C.I. EXI. 0.042 R-15 C.I. INT.	a. MAXIMUM CLEAR SPACE BETWEEN JOISTS AND RAFTERS IS	
d. DUCT LEAKAGE RATES FROM THE DUCT TEST.	plans.	R-21 INT.+T.B.	42" H. OR GREATER, OR	
e. AIR LEAKAGE RATES IF A BLOWER DOOR TEST	For wind generation projects designs shall document annual	R-13 + R-5 C.I.	b. TWO OR MORE ADJACENT TRUSSES HAVE WEB	
WAS CONDUCTED.	power generation based on the following factors:		CONFIGURATIONS CAPABLE OF ACCOMMODATING A CLEAR	
7. ATTIC AND CRAWL SPACE ACCESS DOORS SHALL BE	The wind turbine power curve; average annual wind speed at the site and	SLAB ON GRADE, EDGE R-10, 24" DEEP OR WIDE, 2x2 T.B. OK	SPACE OF 24" W. x 42" H. OR GREATER WITHIN THE PLANE OF THE TRUSSES AND BOTTOM CHORD DEPTH IS GREATER	
INSULATED TO ADJACENT INSULATION STANDARD AND	the site; frequency distribution of the wind speed at the site and height of the tower.		THAN REQUIRED INSULATION DEPTH.	
WEATHER-STRIPPED PER R402.2.4	To qualify to claim this credit, the building permit drawings	SLAB ON GRADE, HEATED R-10 C.I., 2x2 T.B. OK	SEE ALSO IRC TABLE R301.5 FOOTNOTES b, g.	
	shall specify the option being selected and shall show the	SEE R402.2.9.1		
	photovoltaic or wind turbine equipment type, provide			
	documentation of solar and wind access, and include a			
	calculation of the minimum annual energy power production.			

Approach View



BUILDING AREA	S
1AIN FLOOR	1,458 S.F.
IPPER FLOOR	1,307 S.F.
OTAL LIVING SPACE	2,765 S.F.
GARAGE	206 S.F.
PECK (SPACED WOOD DECKING)	459 S.F.
ATIOS, TERRACES, WALKWAYS	344 S.F.
PRIVEWAY, PARKING	456 S.F.
PROJECT TEA	Μ
ARCHITECT: (INCLUDING GRAVITY LOAD DE 4D ARCHITECTS. INC. MAIL ONLY: PO BOX 951 BOTHELL, WA 98041 425.576.1414 plans@4darchitects.com	SIGN)
STRUCTURAL ENGINEER: (LATERAL DESIGI UPSTATE ENGINEERING, INC. (ANDREW GA 22002 64th AVE W,#2C, MOUNTLAKE TERRACE, WA, 98043 206.280.4715	
SURVEY PROVIDED BY: SITE SURVEYING, INC. 21293 NE 11TH. STREET, SAMMAMISH, WA, 425.298.4412 DATE ON SURVEY: 8/31/21	98074
DRAINAGE DESIGN BY: CE SOLUTIONS (DUFFY ELLIS) 102 NW CANAL ST, SEATTLE, WA, 98107 206.930.0342	

SEE ARBORIST REPORT BY: ARBORIST NW, LLC. (NEAL BAKER) 206.779.2579

PROJECT DESCRIPTION

REMOVE EXISTING SINGLE FAMILYRESIDENCE CONSTRUCT NEW SINGLE FAMILYRESIDENCE

	SHEET INDEX
ID	SHEET TITLE
CS	COVER SHEET
1	SITE PLAN
2.1	DETAILS
2.2	DETAILS
2.3	WATERPROOF DETAILS
2.4	WP / STUCCO DETAILS
3	FOUNDATION/MAIN FLOOR FRAMING
4	MAIN FLOOR PLAN
5	UPPER FLOOR/LOWER ROOF FRAMI
6	UPPER FLOOR PLAN
7	UPPER ROOF FRAMING PLAN
8	ELEVATIONS
9	ELEVATIONS
10	SECTIONS
11	SECTIONS
12	SCHEDULES
50	STRUCTURAL NOTES
51	LATERAL DETAILS

ARCHITECTS COM . 425.576.1414 mail: plans@4dar 4**D** РҺ. Е-л

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COVER SHEET

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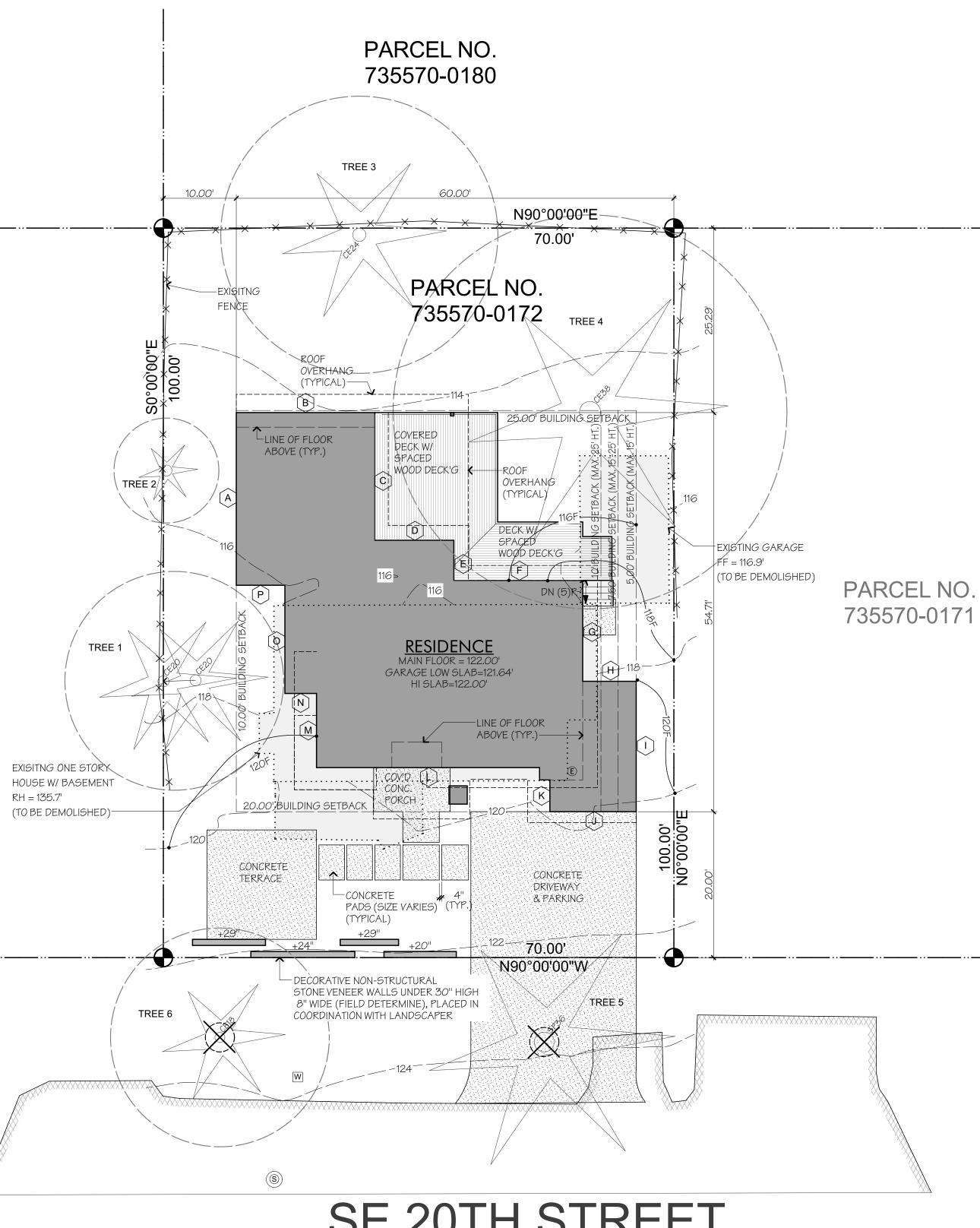
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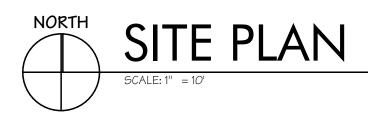
PARCEL NO. 735570-0235

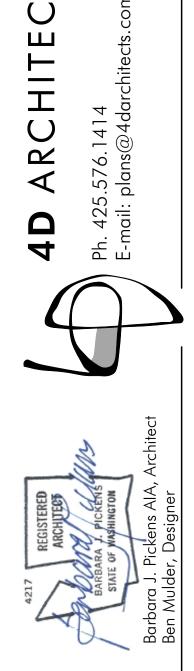
RH = 135.7'





SE 20TH STREET





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HARDSCAPE:

MICC 19.02 .02F (3) (b) (i) (a): MAXIMUM HARDSCAPE= 755 S.F.

DECK= 459 WALK/PATIO= 225 LANDSCAPE WALLS= <u>28</u> **712 S.F. PROPOSED HARDSCAPE**

LOT SLOPE:

HIGH POINT: 122.00' LOW POINT: 113.00' DISTANCE: 100.00' SLOPE: 9/100 = 9.0%

IMPERVIOUS LOT COVERAGE				
ROOF AREA	2,244 S.F.			
ENTRY DRIVE	456 S.F.			
TERRACE FROM WALKWAY	225 S.F.			
WALKWAYS	119 S.F.			
EXTERIOR STAIRS & CONC. LANDING	33 S.F.			
UNCOVERED DECK AREA	221 S.F.			
TOTAL IMPERVIOUS AREA	3,298 S.F.			
PERCENTAGE OF IMPERVIOUS	47.11 %			
MAX. PERCENTAGE ALLOWED	XX.X %			
STRUCTURAL LOT COVERAGE				
BLDG. FOOTPRINT INCL. ROOF, & VEHICLE ACCESS	2,700 S.F.			
LOT AREA	7,000 S.F.			
PERCENTAGE LOT COVERAGE	38.57 %			
MAX. PERCENTAGE ALLOWED	40 %			

	BUILDI	NC	G HEIGH	ΓC	CALC.
			T MIDPOINT OF WAI MENT LENGTHS IN		
A	115.53 (23.67)	J	120.00 (11.83)		
В	114.16 (19.00)	K	119.88 (4.31)		
C	114.81 (17.50)	L	119.19 (32.00)		
D	115.50 (10.83)	M	118.60 (10.17)		
E	115.88 (5.50)	N	117.72 (4.33)		
F	116.00 (17.67)	0	116.90 (14.83)		
G	116.73 (13.83)	P	116.18 (6.67)		
H	118.90 (7.33)				
\bigcirc	119.18 (17.83)				
SUM OF ELEVATIONS × WALL LENGTHS = 25,436.43					36.43
AVG. EXISTING GRADE = 25,436.43/217.30 117.06'				6'	
MAX. ELEV. ROOF RIDGE = 117.06'+30'					06
PROPOSED ELEV. AT ROOF RIDGE					51'

FOR VERTICAL DATUM, REFER TO SURVEY PROVIDED BY:

SITE SURVEYING, INC. 21293 NE 11TH. STREET, SAMMAMISH, WA, 98074

425.298.4412 DATE ON SURVEY: 8/31/21

FLOOR AREA RATIO

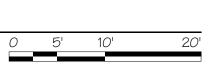
GROSS FLOOR AREA (INCLUDES (28) S.F. IN CRAWLSPACE FOR MECHANICAL)	2,999 SF
LOT AREA	7,000 SF
FAR	42.84%
MAX. GFA: 2,999 S.F. W/ (1) ENCLOSED OFF STREE ⁻ MICC 19.02 020(D)(3)(a): MAX. GROSS FLOOR AR	

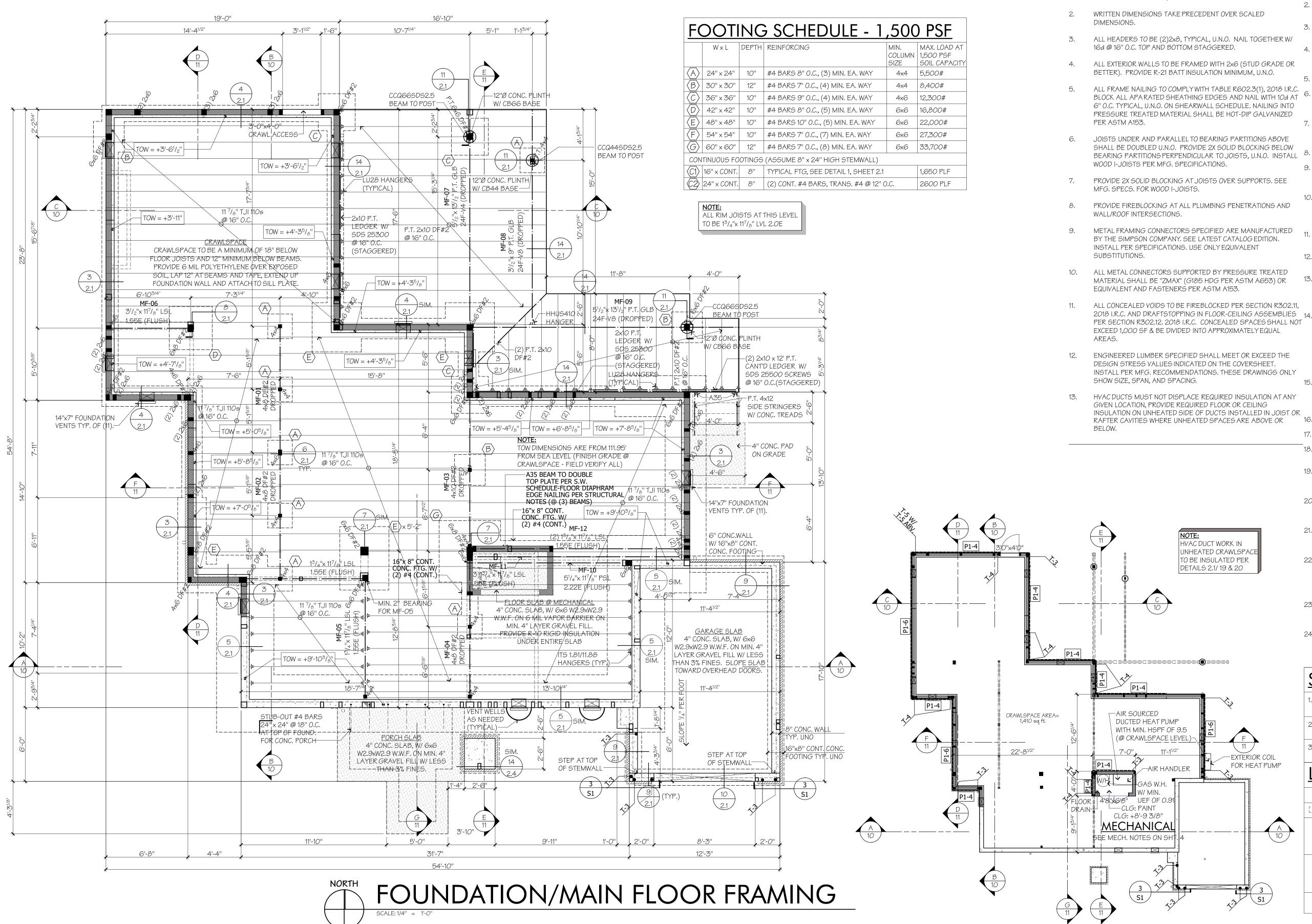
BUILDING AREA	S
MAIN FLOOR	1,458 S.F.
UPPER FLOOR	1,307 S.F.
TOTAL LIVING SPACE	2,765 S.F.
GARAGE	206 S.F.
DECK (SPACED WOOD DECKING)	459 S.F.
PATIOS, TERRACES, WALKWAYS	344 S.F.
DRIVEWAY, PARKING	456 S.F.

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SITE PLAN

 \bigcirc ^{FH} VERIFY LOCATION





SHEA	ARWALL SCHEDUI	Æ			Date: 3/2/2023 Job #: 1651
MARK *(2)	SHEATHING - APPLY TO 2x HF STUDS @ 16"o/c U.N.O. BELOW *(9)	SHEATHING EDGE NAILS *(5) ALL EDGES BLOCKED (do not penetrate past flush)	BASE PLATE NAILS *(5)	ROOF TO TOP PLATE, FLOOR TO TOP PLATE & SILL PLATE *(6)	SILL PLATE ANCHORS w/ 3" x 3" x 1/4" WASHERS *(8)
P1-6	7/16" OSB	8d @ 6" o/c (12" o/c field)	16d @ 12 " o/c	H1 @ 24 " o/c or A35 @ 24 " o/c	5/8"Øx10" AB's @ 60 " o/c
P1-4	7/16" OSB	8d @ 4" o/c (12" o/c field)	16d @ 6 " o/c	A35 @ 16 " o/c	5/8"Øx10" AB's @ 42 " o/c
P1-3	7/16" OSB *(7)	8d @ 3" o/c (12" o/c field)	16d @ 4 " o/c	A35 @ 12 " o/c	5/8"Øx10" AB's @ 36 " o/c
P1-2	7/16" OSB *(7)	8d @ 2" o/c staggered (12" o/c field)	16d @ 3 " o/c	A35 @ 8 " o/c	5/8"Øx10" AB's @ 24 " o/c *(3)
P2-2	7/16" OSB Both Sides *(7)	8d @ 2" o/c staggered (12" o/c field)	(2)-16d @ 4"o/c to dbl 2x rim / blk'g	A35 / LTP4 each side @ 10 " o/c	5/8"Øx10" AB's @ 16 " o/c *(3)
RSW	7/16" OSB	8d @ 4" o/c (12" o/c field)	16d @ 6 " o/c	A35 @ 16 " o/c	5/8"Øx10" AB's @ 42 " o/c

HOLI	DOWN SCH	IEDULE		Date: Job #:	3/2/2023 1651
MARK	HOLDOWN / STRAP *(1)	FASTENERS TO (2)-STUDS MIN U.N.O.	FOUNDATION ANCHOR *(1)(4)		COMMENTS
T-1	MSTC48B3	10d NAILS - (12) FACE, (4) BTM, (38) FRAMING	N/A		EAM/HDR/DBL JST LOW PER PLAN
T-2	MSTC52	(24) - 16d sinkers to each connected element	N/A		
T-3	HDU4-SDS2.5	(10) - SDS 0.25x2.5 WOOD SCREWS	SSTB24		
T-4	HDU8-SDS2.5	(20) - SDS 0.25x2.5 WOOD SCREWS	SSTB28	MI	N. DF#2 4X POST
T-5	HDU14-SDS2.5	(36) - SDS 0.25x2.5 WOOD SCREWS	PAB8 W/ 11" MIN EMBEDMENT	Ν	MIN 6x6 POST

MAIN FLR. FRMG. NOTES

PLANS SHOULD BE REVIEWED BY ALL SUBCONTRACTORS PRIOR TO STARTING CONSTRUCTION. IF DISCREPANCIES EXIST, PLEASE NOTIFY 4D ARCHITECTS, INC. OR OWNER/CONTRACTOR.

13.

16.



FOUNDATION NOTES

PLANS SHOULD BE REVIEWED BY ALL SUBCONTRACTORS PRIOR STARTING CONSTRUCTION. IF DISCREPANCIES EXIST, PLEASE CONTACT 4D ARCHITECTS, INC. OR OWNER/CONTRACTOR.

WRITTEN DIMENSIONS TAKE PRECEDENT OVER SCALED DIMENSIONS.

ALL FOOTINGS TO HAVE A MINIMUM DEPTH OF 18" BELOW FINISH GRADE.

ALL CONCRETE FOOTINGS TO REST ON FIRM UNDISTURBED EARTH. SOIL BEARING PRESSURE TO BE AS LISTED ON COVER SHEET OR REFER TO SOILS REPORT WHEN REQUIRED OR AVAILABLE.

STEP FOUNDATION PER SITE CONDITIONS.

CONCRETE COMPRESSIVE STRENGTH TO BE F'C = 3,000 PSI (MODERATE EXPOSURE, PER IRC TABLE 402.2). 2,500 PSI USED FOR DESIGN PURPOSES, GRADE 40 REINFORCEMENT.

ALL WOOD IN CONTACT WITH CONCRETE, MASONRY, WITHIN 8" OF ADJACENT EARTH, OR EXPOSED TO WEATHER SHALL BE PRESSURE TREATED.

VERIFY ALL DIMENSIONS AND FIELD CONDITIONS.

10.

15.

PROVIDE TEMPORARY BRACING AS REQUIRED UNTIL ALL PERMANENT CONNECTIONS AND STIFFENINGS HAVE BEEN INSTALLED.

JOISTS UNDER AND PARALLEL TO BEARING PARTITIONS ABOVE SHALL BE DOUBLED U.N.O. PROVIDE 2X SOLID BLOCKING BELOW BEARING PARTITIONS WHEN PERPENDICULAR TO JOISTS U.N.O. INSTALL WOOD I-JOISTS PER MFG. RECOMMENDATIONS.

PROVIDE 2X SOLID BLOCKING AT JOISTS OVER SUPPORTS. SEE MFG. SPECS. FOR WOOD I-JOISTS.

PROVIDE FIREBLOCKING AT ALL PLUMBING PENETRATIONS AND 12. WALL/ROOF INTERSECTIONS.

ENGINEERED LUMBER SPECIFIED SHALL MEET OR EXCEED THE DESIGN STRESS VALUES INDICATED ON THE COVERSHEET. INSTALL PER MFG. RECOMMENDATIONS. THESE DRAWINGS ONLY SHOW SIZE, SPAN, AND SPACING.

PROVIDE 14"x7" FOUNDATION VENTS WITH 1/4" CORROSION

RESISTANT WIRE MESH. FOUNDATION VENT CALCULATION: TOTAL CRAWL SPACE AREA: 1,410 S.F. VENT AREA REQD .: 1,410 S.F./300=4.7 S.F. (ASSUME .51 S.F. NET VENT AREA PER VENT.) NUMBER OF VENTS REQD .: 4.7 S.F./.51 =9 VENTS. (11) PROVIDED. INSTALL VENTS IN RIM JOISTS. VENTS TO BE EVENLY SPACED AND PROVIDE CROSS VENTILATION. SEE FOUNDATION PLAN. SEE WA STATE AMENDMENT R408.2.

CRAWLSPACE TO BE A MINIMUM OF 18" BELOW FLOOR JOISTS AND 12" MINIMUM BELOW BEAMS. PROVIDE 6 MIL POLYETHYLENE CLASS I VAPOR BARRIER. LAP 12" AT SEAMS AND TAPE, EXTEND UP FOUNDATION WALL AND ATTACH TO SILL PLATE.

ALL BEAMS TO BE 4x10 D.F.#2 TYP. U.N.O.

17. ALL POSTS TO BE 4x4 D.F.#1 (4x6 AT BEAM SPLICES) TYP. U.N.O.

- ALL ISOLATED SPREAD FOOTINGS TO BE 24"x24"x10" WITH (2)#4 BOTTOM EACH WAY TYP. U.N.O.
- CONCRETE PROTECTION FOR REINFORCEMENT: A. 3" CAST 19. AGAINST EARTH. B. $1^{1}/_{2}^{"}$ EXPOSED TO EARTH OR WEATHER. C. $3/_{4}$ " NOT EXPOSED TO EARTH OR WEATHER.
- 20. METAL FRAMING CONNECTORS SPECIFIED ARE MANUFACTURED BY THE SIMPSON COMPANY. SEE LATEST CATALOG EDITION. INSTALL PER SPECS. USE ONLY EQUIVALENT SUBSTITUTIONS.
- ALL METAL CONNECTORS SUPPORTED BY PRESSURE TREATED 21. MATERIAL SHALL BE "ZMAX" (G185 HDG PER ASTM A653) OR EQUIVALENT AND FASTENERS SHALL BE PER ASTM A153.
- ALL FRAME NAILING TO COMPLY WITH TABLE R602.3(1), 2018 I.R.C 22. BLOCK ALL APARATED SHEATHING EDGES AND NAIL WITH 10d AT 6" O.C. TYPICAL, U.N.O. ON SHEARWALL SCHEDULE. NAILING INTO PRESSURE TREATED MATERIAL SHALL BE HOT-DIP GALVANIZED PER ASTM A153.
- DAMPROOFING/WATERPROOFING OF CONCRETE & MASONRY 23. FOUNDATIONS REQUIRED FOR ALL INTERIOR & BELOW-GRADE SPACES INCLUDING CRAWLSPACES.
- HVAC DUCTS MUST NOT DISPLACE REQUIRED INSULATION AT ANY 24. GIVEN LOCATION, PROVIDE REQUIRED FLOOR OR CEILING INSULATION ON UNHEATED SIDE OF DUCTS INSTALLED IN JOIST OR RAFTER CAVITIES WHERE UNHEATED SPACES ARE ABOVE OR

SHEARWALL NOTES

- HOLDOWN AND ANCHOR PER PLAN, SEE DETAILS AND SCHEDULE ON LATERAL "S" SHEET(S) STRAP PER PLAN, SEE DETAILS ON LATERAL "S" SHEET(S)
- SEE LATERAL "S" SHEET(S) FOR SHEARWALL NOTES, SCHEDULE, AND TYPICAL DETAILS

<u>LEGEND</u>

<u>SYMBOL</u>	DESCRIPTION
]	DENOTES STUD WALLS ABOVE
	DENOTES POSTING UNDER CONCENTRATED LOADS. PROVIDE DF#2 4x4 AT MIDSPAN AND DF#2 4x6 AT BEAM SPLICES U.N.O.
	DENOTES CONCENTRATED LOAD FROM ABOVE. PROVIDE SOLID BLOCKING AS REQUIRED. DO NOT INSTALL FND. VENTS AT THESE LOCATIONS
XF:00	DENOTES BEAM OR FOOTING LABEL. SEE BEAM AND FOOTING CALCULATIONS





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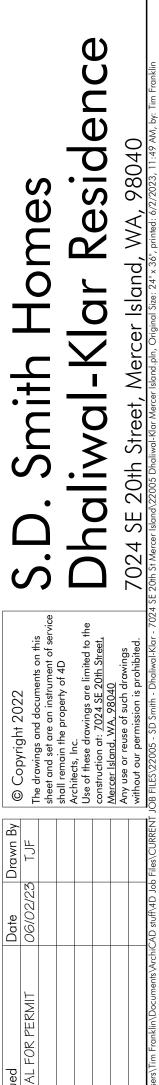
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FOUNDATION/MAIN FLOOR FRAMING



SHEA	ARWALL SCHEDUL	Date: 3/2/2023 Job #: 1651			
MARK *(2)	SHEATHING - APPLY TO 2x HF STUDS @ 16"o/c U.N.O. BELOW *(9)	SHEATHING EDGE NAILS *(5) ALL EDGES BLOCKED (do not penetrate past flush)	BASE PLATE NAILS *(5)	ROOF TO TOP PLATE, FLOOR TO TOP PLATE & SILL PLATE *(6)	SILL PLATE ANCHORS w/ 3" x 3" x 1/4" WASHERS *(8)
P1-6	7/16" OSB	8d @ 6" o/c (12" o/c field)	16d @ 12 " o/c	H1 @ 24 " o/c or A35 @ 24 " o/c	5/8"Øx10" AB's @ 60 " o/c
P1-4	7/16" OSB	8d @ 4" o/c (12" o/c field)	16d @ 6 " o/c	A35 @ 16 " o/c	5/8"Øx10" AB's @ 42 " o/c
P1-3	7/16" OSB *(7)	8d @ 3" o/c (12" o/c field)	16d @ 4 " o/c	A35 @ 12 " o/c	5/8"Øx10" AB's @ 36 " o/c
P1-2	7/16" OSB *(7)	8d @ 2" o/c staggered (12" o/c field)	16d @ 3 " o/c	A35 @ 8 " o/c	5/8"Øx10" AB's @ 24 " o/c *(3)
P2-2	7/16" OSB Both Sides *(7)	8d @ 2" o/c staggered (12" o/c field)	(2)-16d @ 4"o/c to dbl 2x rim / blk'g	A35 / LTP4 each side @ 10 " o/c	5/8"Øx10" AB's @ 16 " o/c *(3)
RSW	7/16" OSB	8d @ 4" o/c (12" o/c field)	16d @ 6 " o/c	A35 @ 16 " o/c	5/8"Øx10" AB's @ 42 " o/c

ALL EXTERIO _____ P1-4 3. T HOLF SCHE × STRA 5/ SEE LATERA AND TYPICA

2018 TABLE 406.3 ENERGY CREDITS

FUEL NORMA SELECTED F 2 For an initial h federal standa C403.3.2(1)C 3.2^aHIGH EFFICI Air-source ce 5.3 HIGH EFFICI Energy Star r of 0.91 6.1 RENEWABLE For solar elec meet this req Laboratory ca code official. Documentatio plans. For wind gene power genera The wind turbi

the site; frequency distribution of the wind speed at the site and height of the tower Footnote a:

a. An alternative heating source sized at a maximum of 0.5 Watts/ft2 (equivalent) of heated floor area or 500 Watts, whichever is bigger, may be installed in the dwelling unit.

MECHANICAL NOTES M1. GAS APPLIANCES SHALL BE ELEVATED SO THAT

THE IGNITORS ARE 18" MIN. ABOVE THE GARAGE FLOOR PER 2018 I.R.C. M1307.3. PROTECTION FROM IMPACT: APPLIANCES SHALL BE PROTECTED BY APPROVED BARRIERS WHEN LOCATION IN SUBJECT TO VEHICLE DAMAGE (IRC M1307.3.1).

M2. 8"Ø FRESH AIR DUCT TO RETURN AIR PLENUM w/ MOTORIZED DAMPER.

M3. PROVIDE COMBUSTION AIR FOR GAS APPLIANCES PER 2018 I.R.C. G2407.

M4. HVAC DUCTS MUST NOT DISPLACE REQUIRED INSULATION AT ANY GIVEN LOCATION, PROVIDE REQUIRED FLOOR OR CEILING INSULATION ON UNHEATED SIDE OF DUCTS INSTALLED IN JOIST OR RAFTER CAVITIES WHERE UNHEATED SPACES ARE ABOVE OR BELOW.

M5. INTERMITTENT WHOLE HOUSE VENTILATION TO BE INTEGRATED WITH FORCED-AIR HEATING SYSTEM PER WAC 51-51 M1507.3.5.1, EXHAUST RATE PER WAC 51-51 TABLE M1507.3.3(1) AND M1507.3.3(2). PROVIDE AIR INLET AT RETURN AIR PLENUM ON EXTERIOR OF BUILDING AS REQUIRED.

M6. SECURE WATER HEATER WITH MIN. (2) 22 GA. x ³/₄" WIDE METAL STRAPS. LOCATE AT UPPER & LOWER ONE-THIRD OF WATER HEATER TANK.

M7. COOKTOP w/ INTERMITTENT EXHAUST FAN TO OUTSIDE, 100 CFM (MIN.), 400 CFM (MAX.), DUCTS TO HAVE SMOOTH INTERIOR SURFACES, BE AIR-TIGHT AND BE EQUIPPED WITH BACKDRAFT DAMPERS.

M8. DRYER EXHAUST DUCTS SHALL HAVE SMOOTH INTERIORS AND BE MADE OF MIN. 28 GAUGE METAL AND BE NO MORE THAN 35 FEET IN LENGTH FROM DRYER CONNECTION TO OUTLET TERMINAL, SEE 2018 I.R.C. SECTION M1502. FOR DUCT RUNS WITH ELBOWS, MAXIMUM ALLOWABLE LENGTH SHALL BE REDUCED PER 2018 I.R.C. TABLE M1502.4.5.1.

M9. PROVIDE CONTROLS FOR WHOLE HOUSE VENTILATION SYSTEM.

SHEARWALL NOTES

10	OR WALLS TO BE P1-6				
	DENOTES EXTENT OF SHEARWALL				
	SHEARWALL MARK. MARK IS ON SIDE OF WALL TO BE SHEATHED IF ONE SIDE IS INDICATED, SEE SHEARWALL SCHEDULE ON LATERAL "S" SHEET(S)				
DOWN AND ANCHOR PER PLAN, SEE DETAILS AND IEDULE ON LATERAL "S" SHEET(S)					
Α	P PER PLAN, SEE DETAILS ON LATERAL "S" SHEET(S)				
	AL "S" SHEET(S) FOR SHEARWALL NOTES, SCHEDULE, AL DETAILS				

WALL LEGEND

DENOTES NEW WALLS DENOTES INTERIOR BEARING WALLS

TABLE 406.2 FUEL NORMALIZATION CREDITS

LIZATION CREDIT REQUIREMENTS ROM TABLE 406.2: CRE	
heating system using a heat pump that meets ards for the equipment listed in Table c or C403.3.2(2)	1.0
IENCY HVAC EQUIPMENT 3.2 ^a : footnote a entrally ducted heat pump with min. HSPF of 9.5.	1.0
IENCY HVAC EQUIPMENT 5.3: rated gas or propane water heater with a min. UEF	1.0
E ELECTRIC ENERGY 6.1: ctric systems, the design shall be demonstrated to juirement using the National Renewable Energy alculator PVWATTs or approved alternate by the on noting solar access shall be included on the	3.0
eration projects designs shall document annual ation based on the following factors: pine power curve; average annual wind speed at	

MAIN FLOOR NOTES

- PLANS SHOULD BE REVIEWED BY ALL SUBCONTRACTORS PRIOR CONSTRUCTION. IF DISCREPANCIES EXIST, PLEASE NOTIFY 4D ARCHITECTS OR OWNER/CONTRACTOR.
- WRITTEN DIMENSIONS TAKE PRECEDENT OVER SCALED DIMENSIONS.
- PLATE HEIGHT TO BE 10'-11/8" THIS FLOOR U.N.O. CEILING HEIGHT CALL-OUT ABOVE ROOM NAME IS FROM TOP OF SUBFLOOR TO BOTTOM OF FLOOR OR CEILING JOISTS.
- SILL HT. OF WINDOW R.O. FROM TOP OF SUBFLOOR. SEE WINDOW 4 SCHEDULE FOR HEAD HTS.
- SEE UPPER FLOOR FRAMING PLAN FOR WINDOW/DOOR HEADER SIZES.
- ALL EXTERIOR WALLS TO BE FRAMED WITH 2x6 (STUD GRADE OR BETTER). PROVIDE R-21 BATT INSULATION MINIMUM, U.N.O.
- ALL FRAME NAILING TO COMPLY WITH TABLE R602.3(1), 2018 I.R.C. BLOCK ALL APARATED SHEATHING EDGES AND NAIL WITH 10d AT 6" O.C. TYPICAL, U.N.O. ON SHEARWALL SCHEDULE. NAILING INTO PRESSURE TREATED MATERIAL SHALL BE HOT-DIP GALVANIZED PER ASTM A153.
- JOISTS UNDER AND PARALLEL TO BEARING PARTITIONS ABOVE SHALL BE DOUBLED U.N.O. PROVIDE 2X SOLID BLOCKING BELOW BEARING PARTITIONS PERPENDICULAR TO JOISTS, U.N.O. INSTALL WOOD I-JOISTS PER MFG. SPECIFICATIONS.
- PROVIDE 2X SOLID BLOCKING AT JOISTS OVER SUPPORTS. SEE MFG. SPECS. FOR WOOD I-JOISTS.
- PROVIDE FIREBLOCKING AT ALL PLUMBING PENETRATIONS AND 10 WALL/ROOF INTERSECTIONS.
- SPACES UNDER STAIRCASES USED FOR STORAGE TO BE FINISHED 11. WITH MIN. (1) LAYER $1/2^{"}$ G.W.B.
- THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND 12. ITS ATTIC AREA BY NO LESS THAN 1/2" G.W.B. APPLIED TO THE GARAGE SIDE. LIVING AREAS ABOVE THE GARAGE SHALL BE SEPARATED FROM THE GARAGE WITH NO LESS THAN 5/8" TYPE "X" G.W.B. ALL SUPPORTING STRUCTURE SHALL BE PROTECTED BY NO LESS THAN 1/2" G.W.B.
- FINISH ALL CEILINGS WITH $5/_{\mathcal{B}}$ " TYPE "X" G.W.B. WHERE JOISTS ARE 13. SPACED GREATER THAN 16".
- PROVIDE 26 GA GALVANIZED SHEET METAL FLASHING ABOVE 14. WINDOWS AND DOORS, LAP BUILDING PAPER OVER.
- CONCRETE STEMWALLS TO EXTEND 8" MIN. ABOVE FINISH GRADE. 15. INSTALL SIDING 8" ABOVE FINISH GRADE.
- WINDOWS TO MEET THE ENERGY CODE REQUIREMENTS ON THE COVERSHEET.
- ALL TUBS AND SHOWER STALLS: A) FIREBLOCK BETWEEN STUDS. 17. B) LIMIT SHOWER FLOW PER COVERSHEET. C) WALLS SHALL BE WATERPROOFED TO A MIN. OF 70" ABOVE DRAIN INLET. D) ALL GLAZING FACING TUBS, SPAS, SHOWERS AND POOLS WITH THE BOTTOM EDGE WITHIN 60" VERTICALLY OF ANY WALKING OR STANDING SURFACE SHALL BE SAFETY GLAZING, UNLESS IT IS MORE THAN 60" AWAY HORIZONTALLY.
- ENGINEERED LUMBER SPECIFIED SHALL MEET OR EXCEED THE DESIGN STRESS VALUES INDICATED ON THE COVERSHEET. INSTALL PER MFG. RECOMMENDATIONS. THESE DRAWINGS ONLY SHOW SIZE, SPAN, AND SPACING.
- 19. DIRECT VENT FIREPLACE: GAS ONLY HEAT SOURCE. UL LABEL INSTALL PER MFR. SPECIFICATIONS.
- 20. PROVIDE ELECTRIC ILLUMINATION AT OUTSIDE DOORS SWITCHED FROM INSIDE.
- PROVIDE ELECTRIC ILLUMINATION AT ALL STAIRWAYS, INCLUDING LANDINGS, SWITCHED AT EACH FLOOR LEVEL.
- HVAC DUCTS MUST NOT DISPLACE REQUIRED INSULATION AT ANY 22. GIVEN LOCATION, PROVIDE REQUIRED FLOOR OR CEILING INSULATION ON UNHEATED SIDE OF DUCTS INSTALLED IN JOIST OR RAFTER CAVITIES WHERE UNHEATED SPACES ARE ABOVE OR BELOW.
- 23. DOORS FROM GARAGE TO LIVING SPACES TO BE $1^{3}/_{8}$ " MIN. THICK SOLID CORE DR. w/ SELF-CLOSER AND WEATHERSTRIPPING, U-VALUE = 0.20 MAX.

<u>LEGEND</u>

18.

SYMBOL DESCRIPTION

- DENOTES POSTING UNDER CONCENTRATED LOADS. PROVIDE POSTING THE WIDTH OF STUD WALL X BEAM WIDTH WITH EITHER SOLID WOOD POST OR MULTIPLE 2X STUDS, TYPICAL, U.N.O. SMOKE DETECTOR POWERED BY BUILDING WIRING W/
- (SD) BATTERY BACK-UP. DETECTORS TO BE INTERCONNECTED SO ANY ONE UNIT WILL ACTIVATE ALL OTHER UNITS CARBON MONOXIDE DETECTOR, HARD-WIRED w/ BATTERY BACK-UP PER I.R.C. SECTION R315 COMBINATION SMOKE & CARBON MONOXIDE DETECTOR, 610 HARD-WIRED w/ BATTERY BACK-UP PER I.R.C. SECTION R314-HEAT DETECTOR OR ALARM RATED FOR AMBIENT OUTDOOR HD TEMPERATURES TO BE CENTRALLY LOCATED IN GARAGE PER R314.2.3 \bigcirc 50 CFM INTERMITTENT EXHAUST FANVENTED TO OUTSIDE (101) WINDOW MARKER, SEE WINDOW SCHEDULE D01 EXTERIOR DOOR MARKER, SEE DOOR SCHEDULE

SSTB28

PAB8 W/ 11" MIN

EMBEDMENT

<u>(</u>SK1) SKYLIGHT MARKER, SEE WINDOW SCHEDULE

,		\vee			
HOLI	DOWN SCH	EDULE		Date: Job #:	3/2/2023 1651
MARK	HOLDOWN / STRAP *(1)	FASTENERS TO (2)-STUDS MIN U.N.O.	FOUNDATION ANCHOR *(1)(4)		COMMENTS
T-1	MSTC48B3	10d NAILS - (12) FACE, (4) BTM, (38) FRAMING	N/A		EAM/HDR/DBL JST ELOW PER PLAN
T-2	MSTC52	(24) - 16d sinkers to each connected element	N/A		
T-3	HDU4-SDS2.5	(10) - SDS 0.25x2.5 WOOD SCREWS	SSTB24		

(20) - SDS 0.25x2.5

WOOD SCREWS (36) - SDS 0.25x2.5

WOOD SCREWS

HDU8-SDS2.5

HDU14-SDS2.5

T-4

T-5



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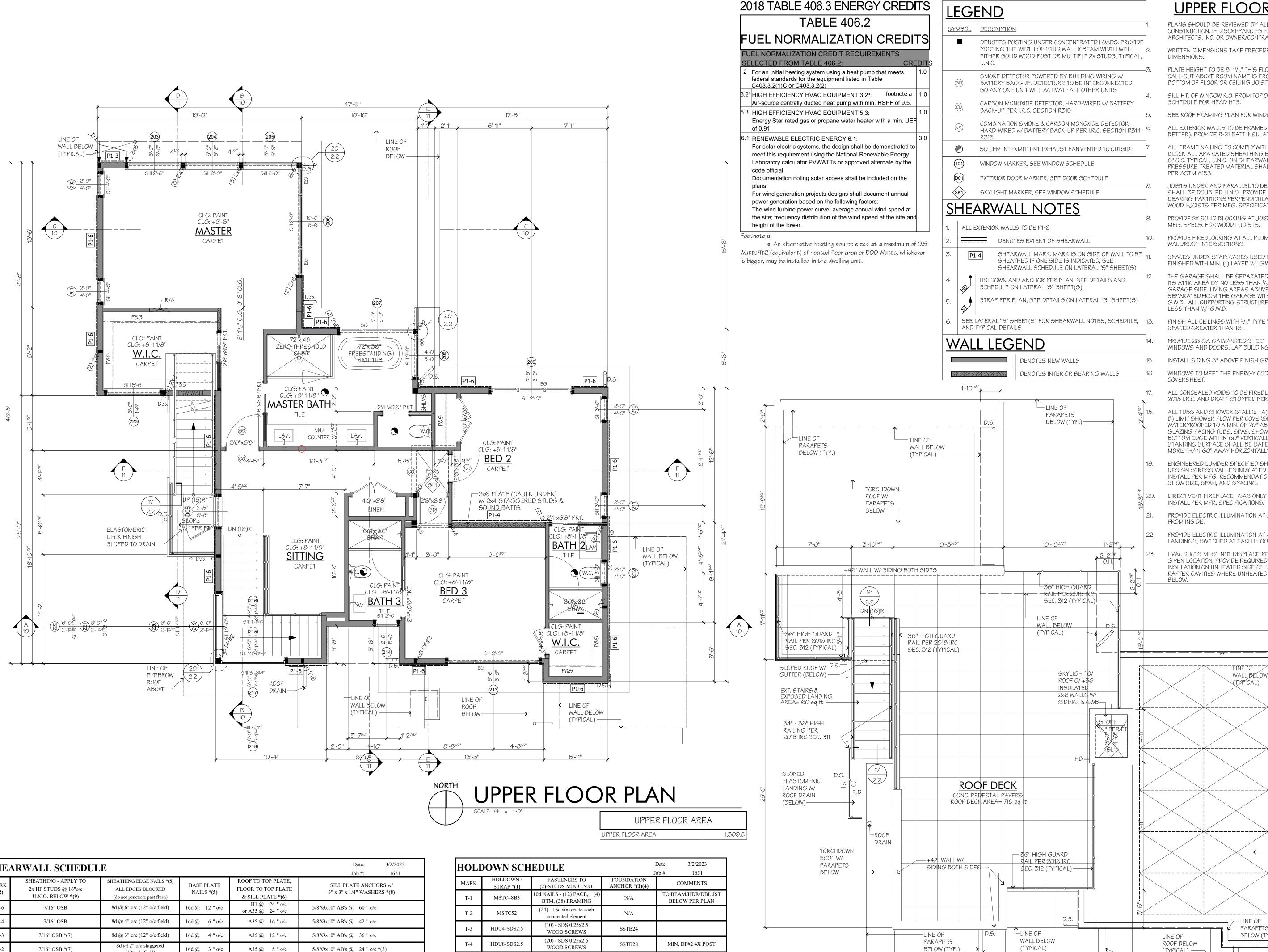
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MAIN FLOOR PLAN

MIN. DF#2 4X POST

MIN 6x6 POST

22005



(36) - SDS 0.25x2.5

WOOD SCREWS

HDU14-SDS2.:

T-5

PAB8 W/ 11" MIN

EMBEDMENT

MIN 6x6 POST

SHE	ARWALL SCHEDUL	Æ			Date: 3/2/2023 Job #: 1651
MARK *(2)	SHEATHING - APPLY TO 2x HF STUDS @ 16"o/c U.N.O. BELOW *(9)	SHEATHING EDGE NAILS *(5) ALL EDGES BLOCKED (do not penetrate past flush)	BASE PLATE NAILS *(5)	ROOF TO TOP PLATE, FLOOR TO TOP PLATE & SILL PLATE *(6)	SILL PLATE ANCHORS w/ 3" x 3" x 1/4" WASHERS *(8)
P1-6	7/16" OSB	8d @ 6" o/c (12" o/c field)	16d @ 12 " o/c	H1 @ 24 " o/c or A35 @ 24 " o/c	5/8"Øx10" AB's @ 60 " o/c
P1-4	7/16" OSB	8d @ 4" o/c (12" o/c field)	16d @ 6 " o/c	A35 @ 16 " o/c	5/8"Øx10" AB's @ 42 " o/c
P1-3	7/16" OSB *(7)	8d @ 3" o/c (12" o/c field)	16d @ 4 " o/c	A35 @ 12 " o/c	5/8"Øx10" AB's @ 36 " o/c
P1-2	7/16" OSB *(7)	8d @ 2" o/c staggered (12" o/c field)	16d @ 3 " o/c	A35 @ 8 " o/c	5/8"Øx10" AB's @ 24 " o/c *(3)
P2-2	7/16" OSB Both Sides *(7)	8d @ 2" o/c staggered (12" o/c field)	(2)-16d @ 4"o/c to dbl 2x rim / blk'g	A35 / LTP4 each side @ 10 " o/c	5/8"Øx10" AB's @ 16 " o/c *(3)
RSW	7/16" OSB	8d @ 4" o/c (12" o/c field)	16d @ 6 " o/c	A35 @ 16 " o/c	5/8"Øx10" AB's @ 42 " o/c

UPPER FLOOR NOTES

PLANS SHOULD BE REVIEWED BY ALL SUBCONTRACTORS PRIOR TO CONSTRUCTION. IF DISCREPANCIES EXIST, PLEASE NOTIFY 4D ARCHITECTS, INC. OR OWNER/CONTRACTOR.

WRITTEN DIMENSIONS TAKE PRECEDENT OVER SCALED DIMENSIONS.

PLATE HEIGHT TO BE 8'-11/8" THIS FLOOR U.N.O. CEILING HEIGHT CALL-OUT ABOVE ROOM NAME IS FROM TOP OF SUBFLOOR TO BOTTOM OF FLOOR OR CEILING JOISTS.

SILL HT. OF WINDOW R.O. FROM TOP OF SUBFLOOR. SEE WINDOW SCHEDULE FOR HEAD HTS.

SEE ROOF FRAMING PLAN FOR WINDOW/DOOR HEADER SIZES.

ALL EXTERIOR WALLS TO BE FRAMED WITH 2x6 (STUD GRADE OR BETTER). PROVIDE R-21 BATT INSULATION MINIMUM, U.N.O.

ALL FRAME NAILING TO COMPLY WITH TABLE R602.3(1), 2018 I.R.C. BLOCK ALL APA RATED SHEATHING EDGES AND NAIL WITH 10d AT 6" O.C. TYPICAL, U.N.O. ON SHEARWALL SCHEDULE. NAILING INTO PRESSURE TREATED MATERIAL SHALL BE HOT-DIP GALVANIZED PER ASTM A153.

JOISTS UNDER AND PARALLEL TO BEARING PARTITIONS ABOVE SHALL BE DOUBLED U.N.O. PROVIDE 2X SOLID BLOCKING BELOW BEARING PARTITIONS PERPENDICULAR TO JOISTS, U.N.O. INSTALL WOOD I-JOISTS PER MFG. SPECIFICATIONS.

PROVIDE 2X SOLID BLOCKING AT JOISTS OVER SUPPORTS. SEE MFG. SPECS. FOR WOOD I-JOISTS.

PROVIDE FIREBLOCKING AT ALL PLUMBING PENETRATIONS AND WALL/ROOF INTERSECTIONS.

SPACES UNDER STAIR CASES USED FOR STORAGE TO BE FINISHED WITH MIN. (1) LAYER $1/2^{"}$ G.W.B.

THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NO LESS THAN 1/2" G.W.B. APPLIED TO THE GARAGE SIDE, LIVING AREAS ABOVE THE GARAGE SHALL BE SEPARATED FROM THE GARAGE WITH NO LESS THAN 5/8" TYPE "X" G.W.B. ALL SUPPORTING STRUCTURE SHALL BE PROTECTED BY NO LESS THAN $\frac{1}{2}$ " G.W.B.

FINISH ALL CEILINGS WITH 5/8" TYPE "X" G.W.B. WHERE JOISTS ARE SPACED GREATER THAN 16".

PROVIDE 26 GA GALVANIZED SHEET METAL FLASHING ABOVE WINDOWS AND DOORS, LAP BUILDING PAPER OVER.

INSTALL SIDING 8" ABOVE FINISH GRADE.

WINDOWS TO MEET THE ENERGY CODE REQUIREMENTS ON THE COVERSHEET.

ALL CONCEALED VOIDS TO BE FIREBLOCKED PER SECTION R302.11, 2018 I.R.C. AND DRAFT STOPPED PER SECTION R302.12, 2018 I.R.C.

ALL TUBS AND SHOWER STALLS: A) FIREBLOCK BETWEEN STUDS. B) LIMIT SHOWER FLOW PER COVERSHEET. C) WALLS SHALL BE WATERPROOFED TO A MIN. OF 70" ABOVE DRAIN INLET. D) ALL GLAZING FACING TUBS, SPAS, SHOWERS AND POOLS WITH THE BOTTOM EDGE WITHIN 60" VERTICALLY OF ANY WALKING OR STANDING SURFACE SHALL BE SAFETY GLAZING, UNLESS IT IS MORE THAN 60" AWAY HORIZONTALLY.

ENGINEERED LUMBER SPECIFIED SHALL MEET OR EXCEED THE DESIGN STRESS VALUES INDICATED ON THE COVERSHEET. INSTALL PER MFG. RECOMMENDATIONS. THESE DRAWINGS ONLY SHOW SIZE, SPAN, AND SPACING.

DIRECT VENT FIREPLACE: GAS ONLY HEAT SOURCE. UL LABEL. INSTALL PER MFR. SPECIFICATIONS.

PROVIDE ELECTRIC ILLUMINATION AT OUTSIDE DOORS SWITCHED FROM INSIDE.

PROVIDE ELECTRIC ILLUMINATION AT ALL STAIRWAYS, INCLUDING LANDINGS, SWITCHED AT EACH FLOOR LEVEL.

HVAC DUCTS MUST NOT DISPLACE REQUIRED INSULATION AT ANY GIVEN LOCATION, PROVIDE REQUIRED FLOOR OR CEILING INSULATION ON UNHEATED SIDE OF DUCTS INSTALLED IN JOIST OR RAFTER CAVITIES WHERE UNHEATED SPACES ARE ABOVE OR BELOW.

WALL BELOW

(TYPICAL) -

LINE OF

SCALE: 1/4" = 1'-0

ROOF BELOW

ROOF DECK PLAN

(TYPICAL) -

-LINE OF

PARAPETS

BELOW (TYP.)->

<u>2'-0^{1/2"}</u> 0.H.

19D.S.

+(12) 3'-5"x 6'-3"

PHOTOVOLTAIC

SOLAR COLLECTORS

INSTALL W/ SLOPE

HEIGHT TO STAY

BELOW EL: 147.00'

AS REQUIRED. MAX

(VERIFY = 3600 KWH)

FASCIA & GUTTER

(BELOW)

AD.S.

 $\mathbf{\Omega}$ Ο Ο \rightarrow σ • — 3 S • -----σ 22005 UPPER FLOOR PLAN



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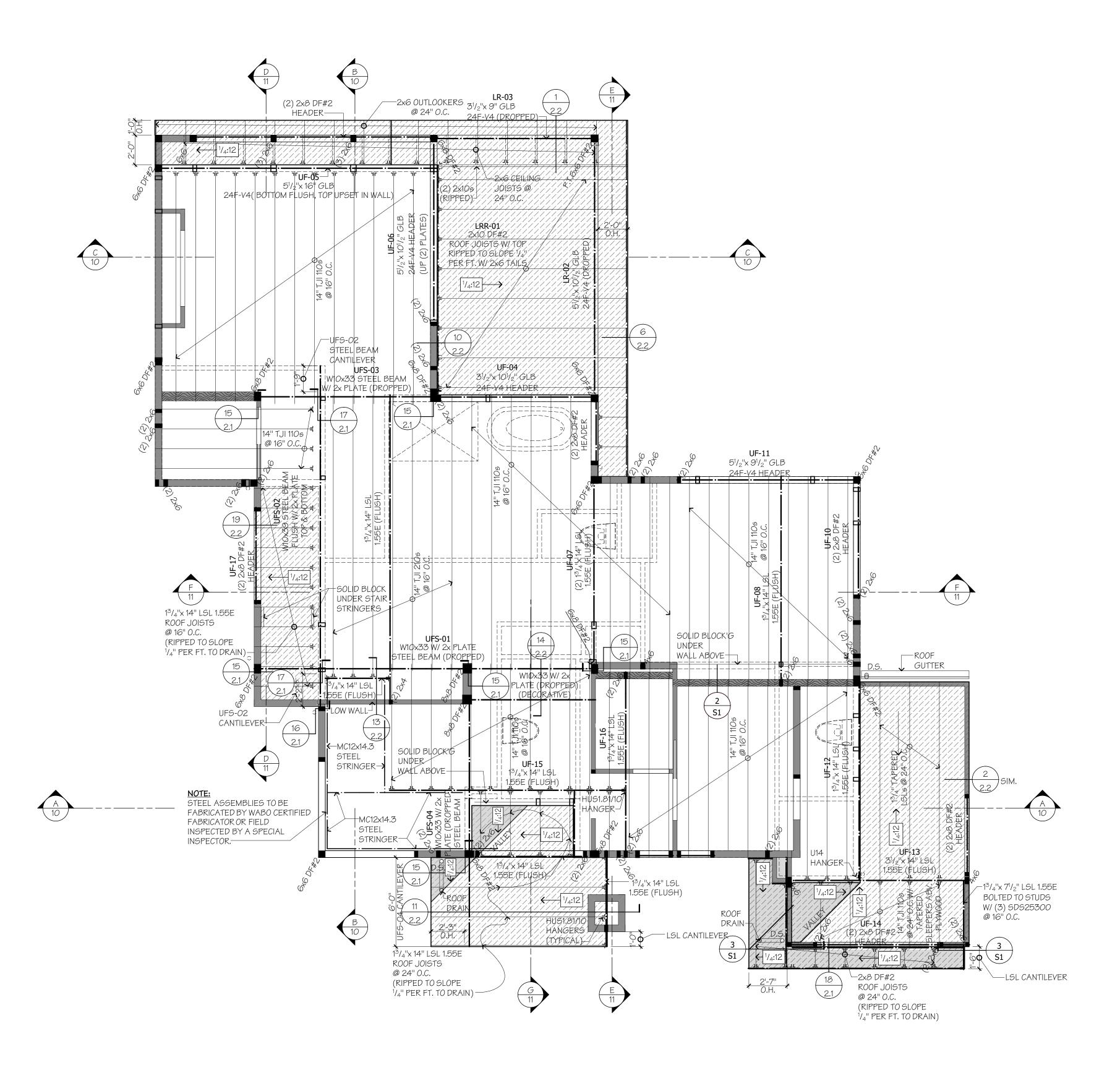
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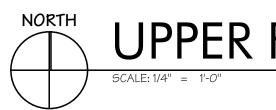
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UPPER FLOOR/LOWER ROOF FRAMING

NOTE: ALL ROOF AREAS ARE NON-VENTED

TS UPPER FLOOR FRMG. NOTES

- 1. PLANS SHOULD BE REVIEWED BY ALL SUBCONTRACTORS PRIOR TO STARTING CONSTRUCTION. IF DISCREPANCIES EXIST, PLEASE NOTIFY 4D ARCHITECTS, INC. OR OWNER/CONTRACTOR.
- WRITTEN DIMENSIONS TAKE PRECEDENT OVER SCALED DIMENSIONS.
- 3. ALL HEADERS TO BE (2)2x8, TYPICAL, U.N.O. NAIL TOGETHER W/ 16d @ 16" O.C. TOP AND BOTTOM STAGGERED.
- 4. ALL EXTERIOR WALLS TO BE FRAMED WITH 2x6 (STUD GRADE OR BETTER). PROVIDE R-21 BATT INSULATION MINIMUM, U.N.O.
- 5. ALL FRAME NAILING TO COMPLY WITH TABLE R602.3(1), 2018 I.R.C. BLOCK ALL APA RATED SHEATHING EDGES AND NAIL WITH 10d AT 6" O.C. TYPICAL, U.N.O. ON SHEARWALL SCHEDULE. NAILING INTO PRESSURE TREATED MATERIAL SHALL BE HOT-DIP GALVANIZED PER ASTM A153.
- JOISTS UNDER AND PARALLEL TO BEARING PARTITIONS ABOVE SHALL BE DOUBLED U.N.O. PROVIDE 2X SOLID BLOCKING BELOW BEARING PARTITIONS PERPENDICULAR TO JOISTS, U.N.O. INSTALL WOOD I-JOISTS PER MFG. SPECIFICATIONS.
- 7. PROVIDE 2X SOLID BLOCKING AT JOISTS OVER SUPPORTS. SEE MFG. SPECS. FOR WOOD I-JOISTS.
- PROVIDE FIREBLOCKING AT ALL PLUMBING PENETRATIONS AND 8. WALL/ROOF INTERSECTIONS.
- METAL FRAMING CONNECTORS SPECIFIED ARE MANUFACTURED BY THE SIMPSON COMPANY. SEE LATEST CATALOG EDITION. INSTALL PER SPECIFICATIONS. USE ONLY EQUIVALENT SUBSTITUTIONS.
- 10. ALL METAL CONNECTORS SUPPORTED BY PRESSURE TREATED MATERIAL SHALL BE "ZMAX" (G185 HDG PER ASTM A653) OR EQUIVALENT AND FASTENERS PER ASTM A153.
- 11. ALL CONCEALED VOIDS TO BE FIREBLOCKED PER SECTION R302.11, 2018 I.R.C. AND DRAFT STOPPED PER SECTION R302.12, 2018 I.R.C.
- 12. ENGINEERED LUMBER SPECIFIED SHALL MEET OR EXCEED THE DESIGN STRESS VALUES INDICATED ON THE COVERSHEET. INSTALL PER MFG. RECOMMENDATIONS. THESE DRAWINGS ONLY SHOW SIZE, SPAN, AND SPACING.
- 13. HVAC DUCTS MUST NOT DISPLACE REQUIRED INSULATION AT ANY GIVEN LOCATION, PROVIDE REQUIRED FLOOR OR CEILING INSULATION ON UNHEATED SIDE OF DUCTS INSTALLED IN JOIST OR RAFTER CAVITIES WHERE UNHEATED SPACES ARE ABOVE OR BELOW.

<u>LEGEND</u>

	DENOTES INTERIOR BEARING WALLS BELOW
	DENOTES WALLS BELOW
[]	DENOTES WALLS ABOVE
	DENOTES OVER-FRAMING ABOVE ROOF FRAMING BELOW
	DENOTES ROOF FRAMING (OR ROOF DECK)
	DENOTES BEAMS, HEADERS, OR TRUSSES
UF:00	DENOTES BEAM LABEL. SEE BEAM CALCULATIONS
	DENOTES POSTING IN WALLS BELOW UNDER CONCENTRATED LOADS. PROVIDE POSTING THE WIDTH OF STUD WALL X BEAM WIDTH WITH EITHER SOLID WOOD POST OR MULTIPLE 2X STUDS, U.N.O.
	DENOTES CONCENTRATED LOAD FROM ABOVE. PROVIDE SOLID BLOCKING AS REQUIRED



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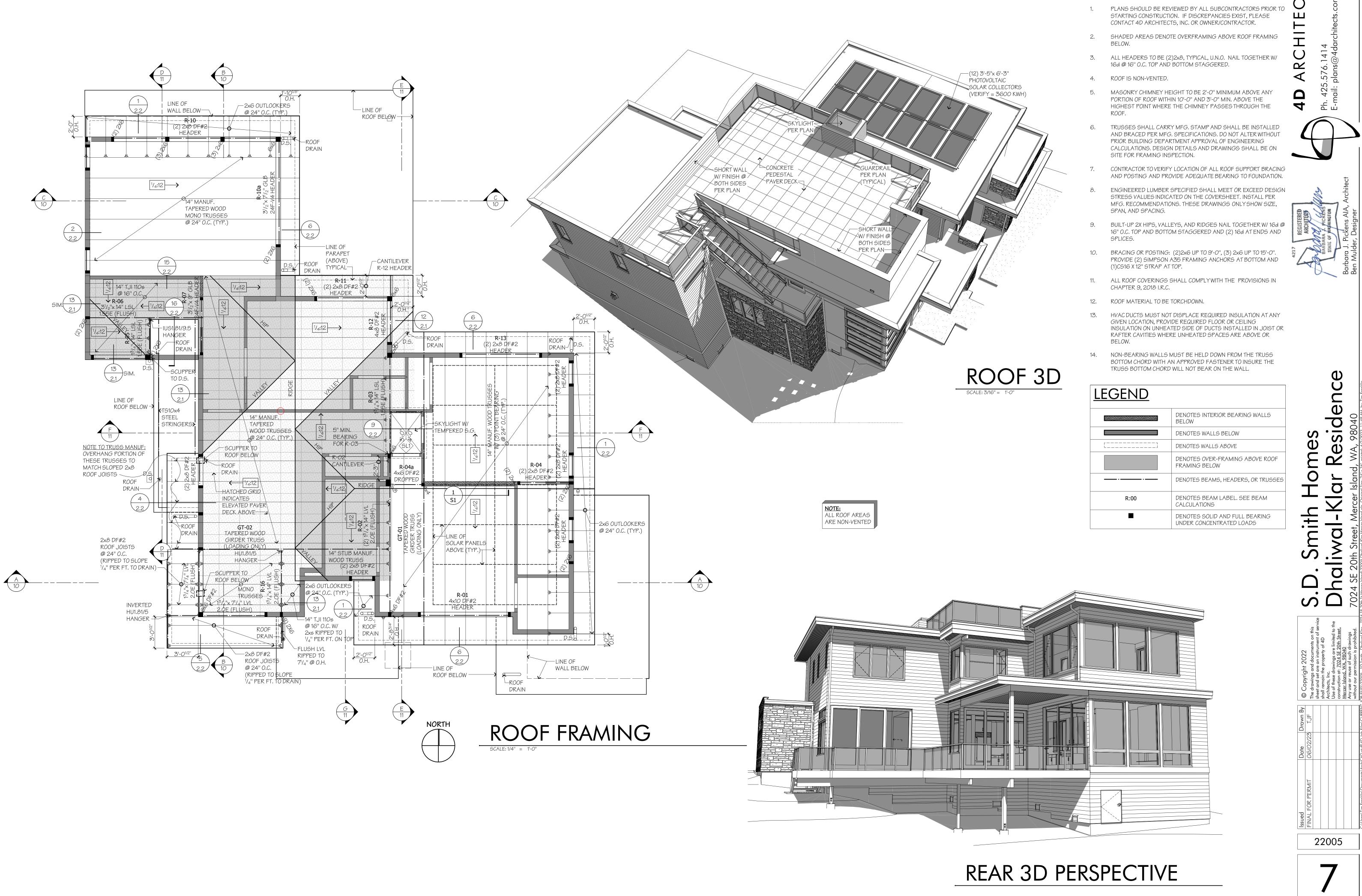
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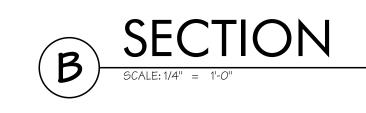
	DENOTES INTERIOR BEARING WALLS BELOW
	DENOTES WALLS BELOW
	DENOTES WALLS ABOVE
	DENOTES OVER-FRAMING ABOVE ROOF FRAMING BELOW
·	DENOTES BEAMS, HEADERS, OR TRUSSES
R:00	DENOTES BEAM LABEL. SEE BEAM CALCULATIONS
	DENOTES SOLID AND FULL BEARING

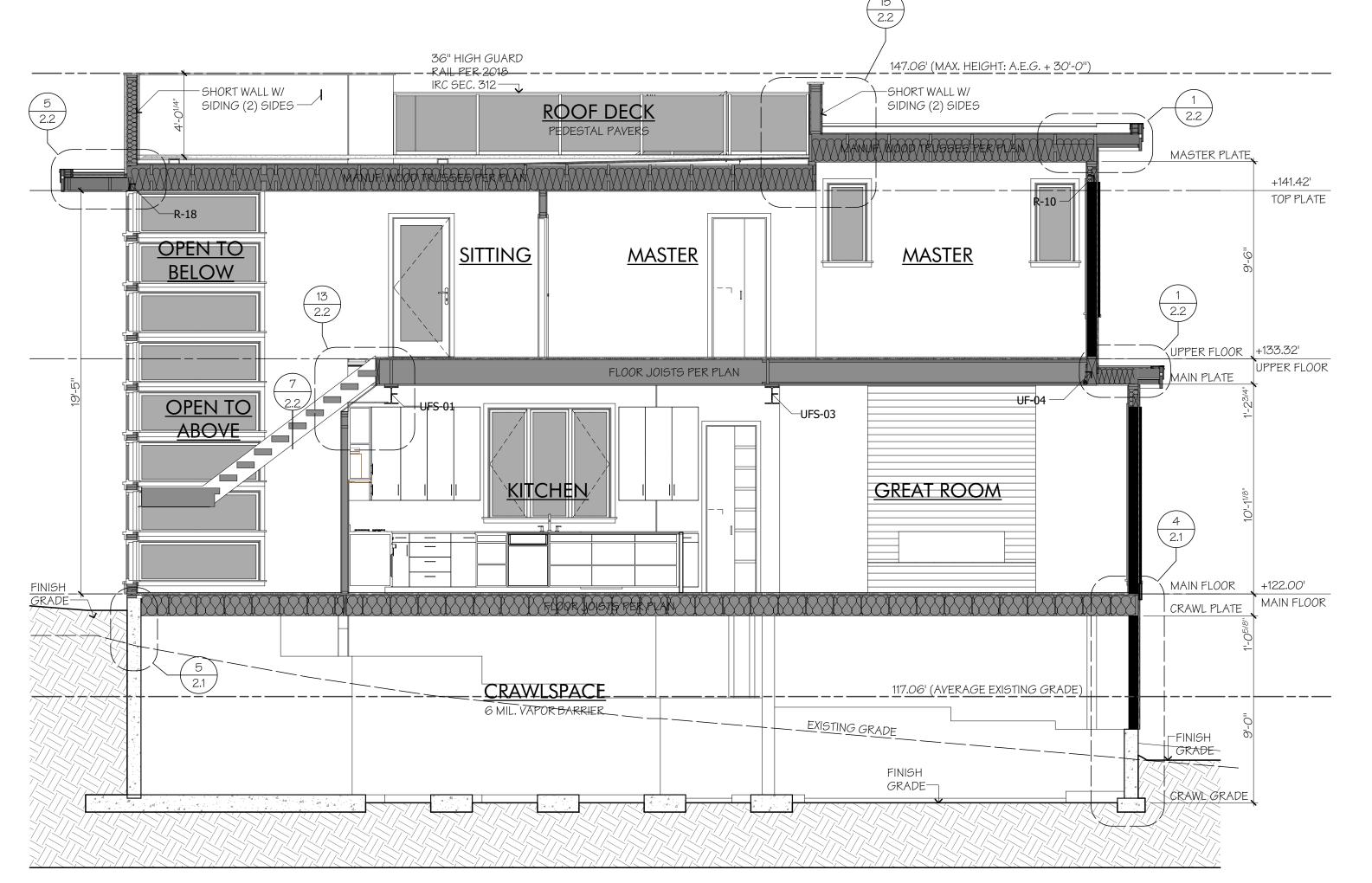
ROOF FRAMING NOTES

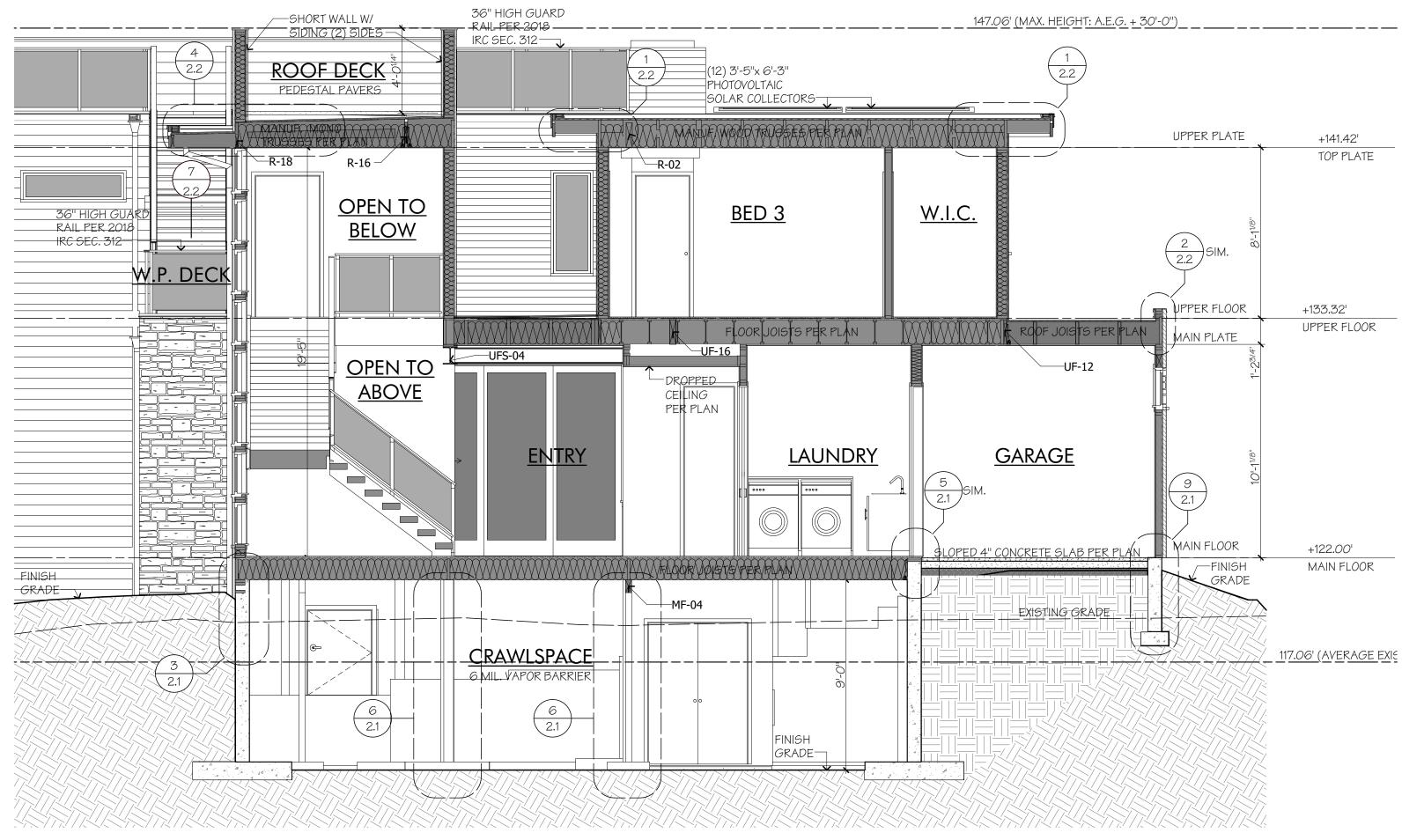
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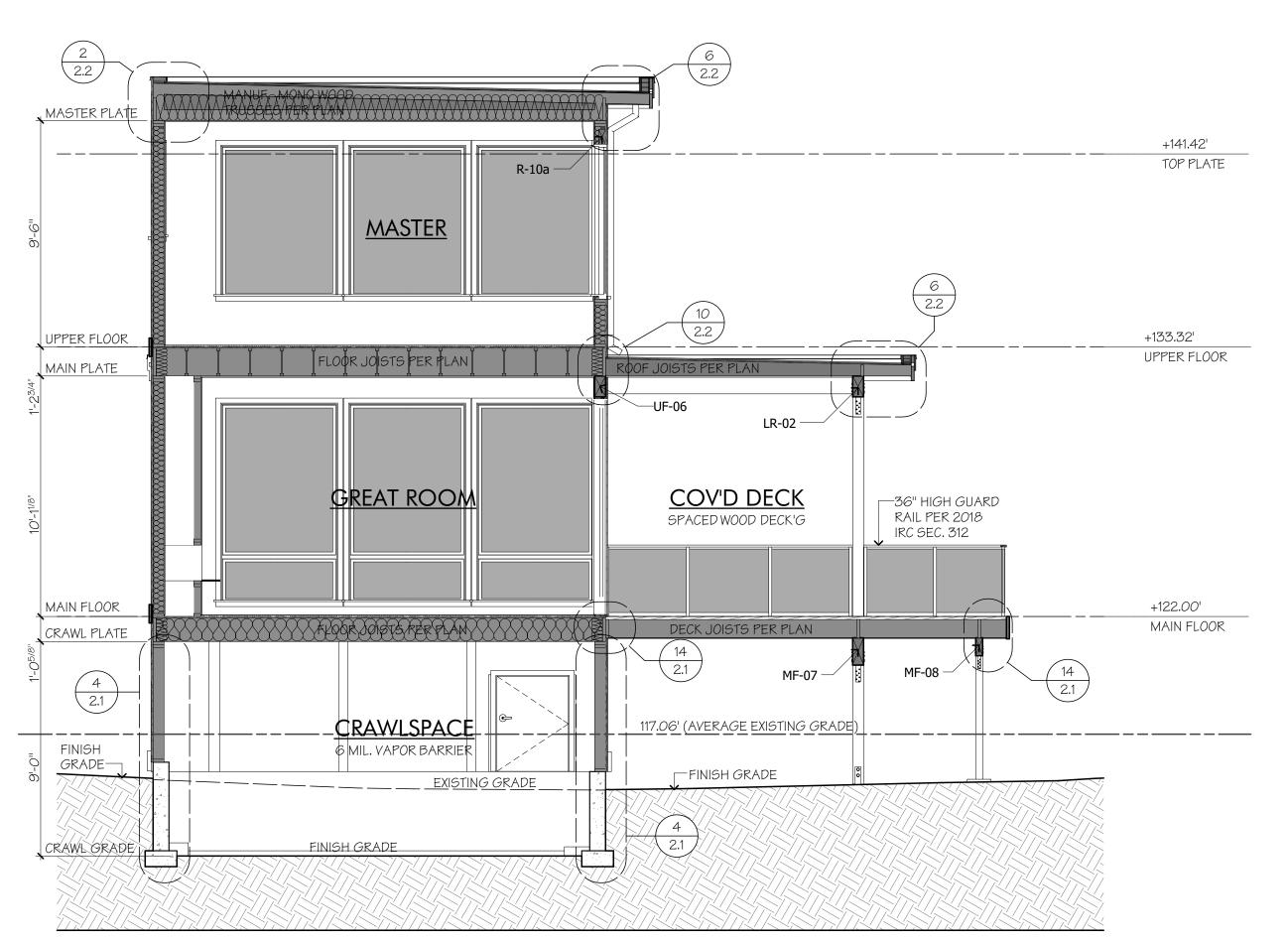
UPPER ROOF FRAMING PLAN











+141.42'

+133.32'

UPPER FLOOR

+122.00'

MAIN FLOOR

TOP PLATE

ROOF CONSTRUCTION

- 1. SINGLE PLY MODIFIED BITUMEN TORCHDOWN.
- 2. ROOFING FELT PER TORCHDOWN MANUFACTURER.
- 3. APA RATED ROOF SHEATHING. SEE STRUCTURAL SHEETS.
- 4. RAFTERS, TRUSSES & CEILING JOISTS PER PLANS.
- 5. INSULATION SHALL BE: a.) R-38 BLOWN-IN CELLULOSE AT ADVANCED FRAMED ROOFS
- (TALL-HEEL TRUSSES, SEE DETAILS). b.) 2¹/₂" CLOSED-CELL "AIR-IMPERMEABLE" SPRAY APPLIED INSULATION AT RAFTERS, APPLY DIRECTLY TO UNDERSIDE OF ROOF SHEATHING, NO VOIDS ABOVE INSULATION. THIS IS THE VAPOR RETARDER. ADD BATT INSULATION AS NEEDED TO REACH R-38 AT SINGLE RAFTER CEILINGS OR R-49 AT WARM ATTICS AND AREAS WITH DROPPED CEILINGS.
- c.) R-49 BLOWN-IN AT OTHER ROOF AREAS 6. 5/8" GYPSUM WALL BOARD CEILING

1. FINISH WALL MATERIALS PER ELEVATIONS.

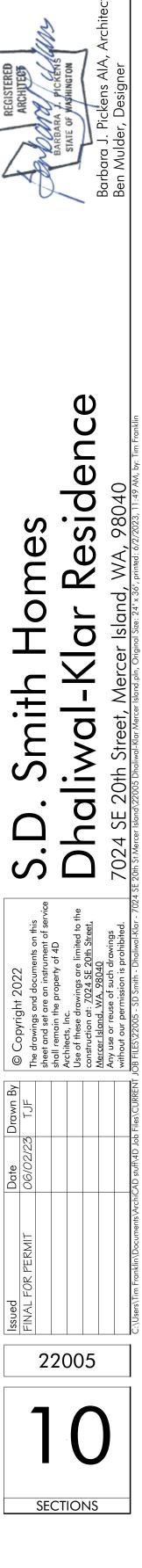
WALL CONSTRUCTION

- 2. 60 MINUTE TYPE 'D' BUILDING PAPER MINIMUM (WATER RESISTIVE BARRIER). SEE DETAILS.
- 3. APA RATED WALL SHEATHING. SEE STRUCTURAL SHEETS.
- 4. 2x6 STUDS 16" O.C., TYPICAL UNLESS NOTED OTHERWISE.
- 5. MIN. R-21 BATT INSULATION, CLASS II VAPOR RETARDER PER 2018 IRC 702.7, KRAFT FACED BATT INSULATION.
- 6. 1/2" GYPSUM WALL BOARD.

FLOOR CONSTRUCTION

- 2. 3/4" TONGUE & GROOVE APA RATED FLOOR SHEATHING, GLUED & NAILED.
- 3. FLOOR JOISTS PER PLAN.
- 4. R-30 BATT INSULATION OVER UNHEATED SPACE.

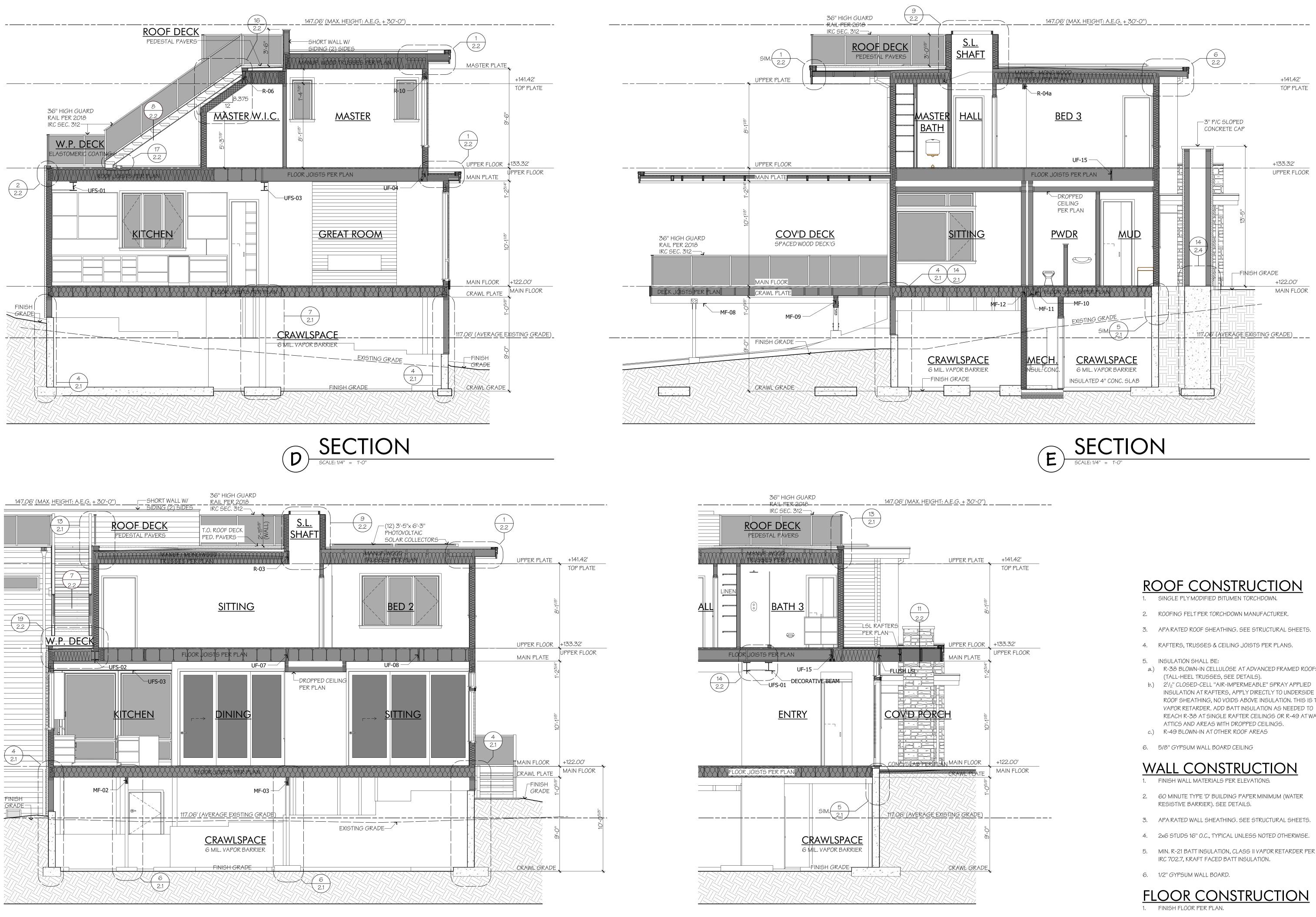


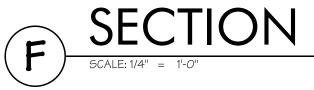


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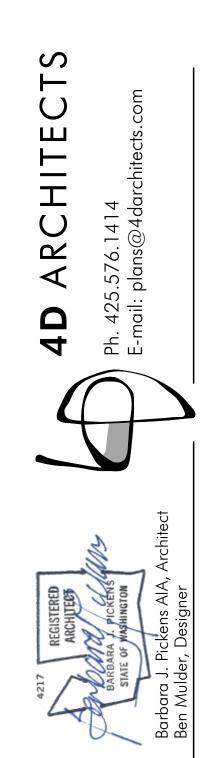
- 1. FINISH FLOOR PER PLAN.











- a.) R-38 BLOWN-IN CELLULOSE AT ADVANCED FRAMED ROOFS
- INSULATION AT RAFTERS, APPLY DIRECTLY TO UNDERSIDE OF ROOF SHEATHING, NO VOIDS ABOVE INSULATION. THIS IS THE VAPOR RETARDER. ADD BATT INSULATION AS NEEDED TO REACH R-38 AT SINGLE RAFTER CEILINGS OR R-49 AT WARM

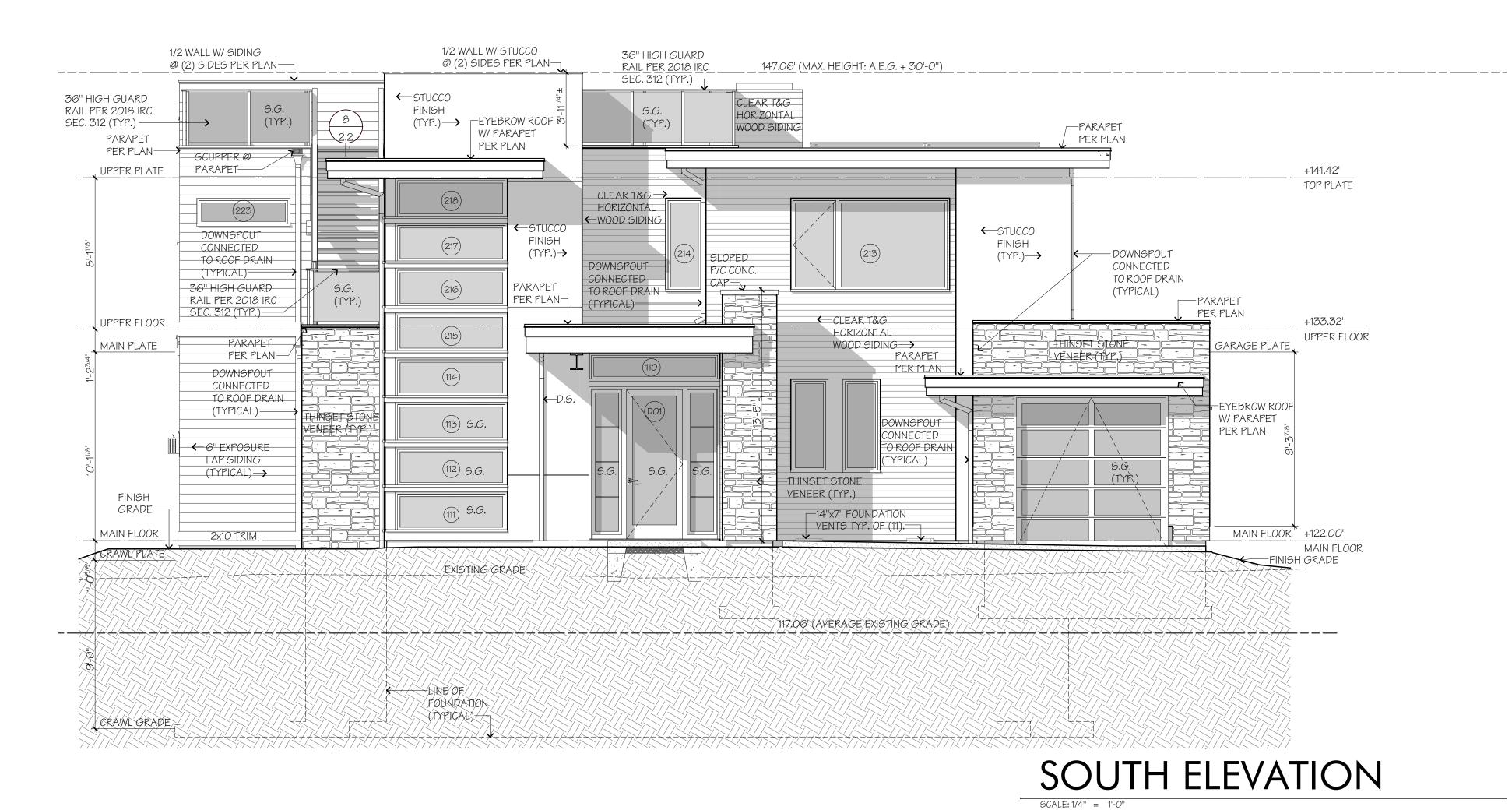
- 5. MIN. R-21 BATT INSULATION, CLASS II VAPOR RETARDER PER 2018

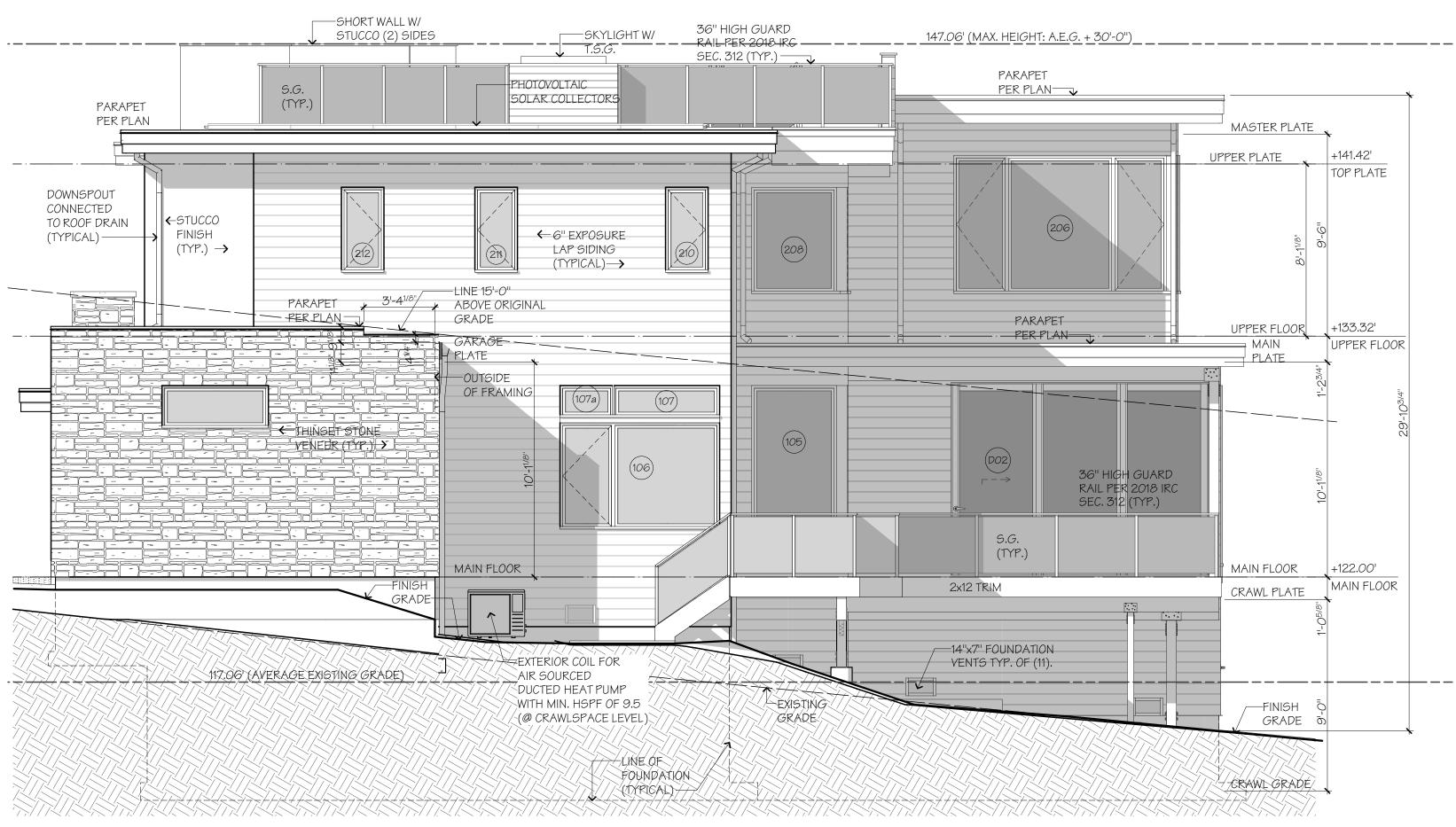
- 2. 3/4" TONGUE & GROOVE APA RATED FLOOR SHEATHING, GLUED & NAILED.
- 3. FLOOR JOISTS PER PLAN.
- 4. R-30 BATT INSULATION OVER UNHEATED SPACE.

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SECTIONS

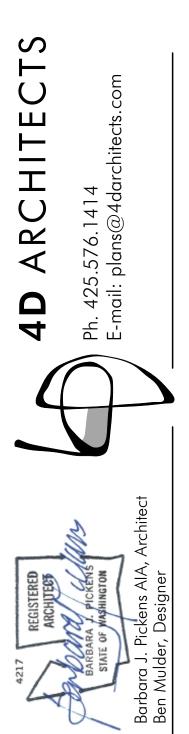


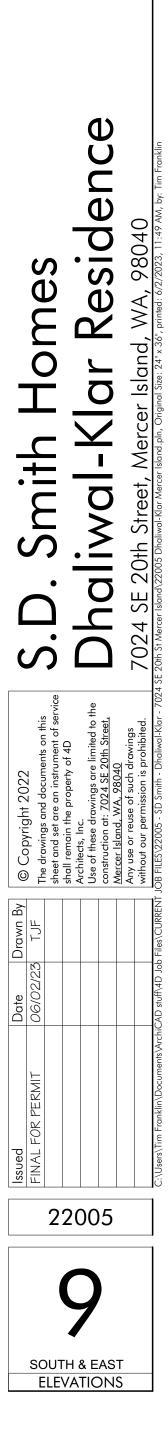


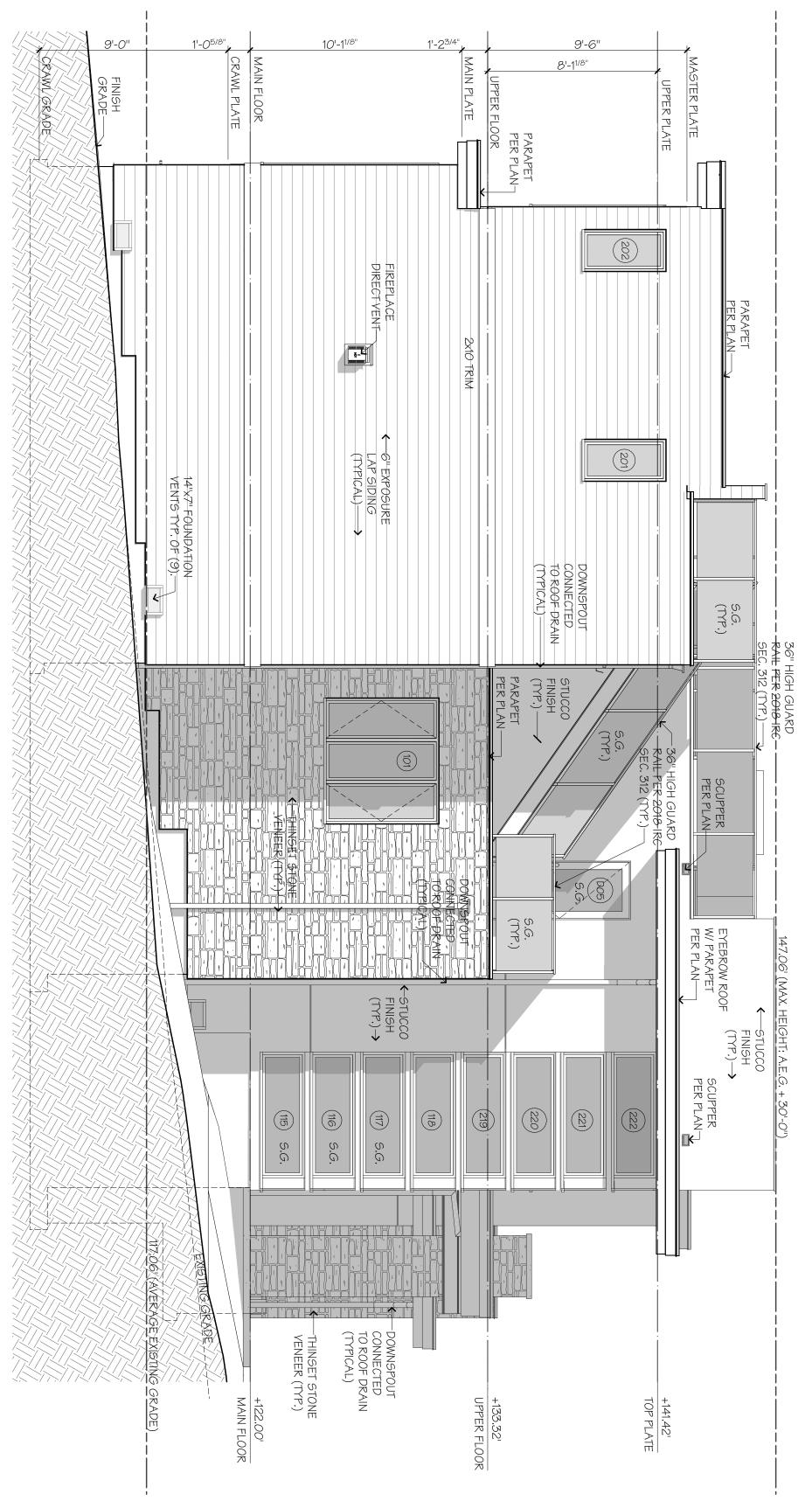


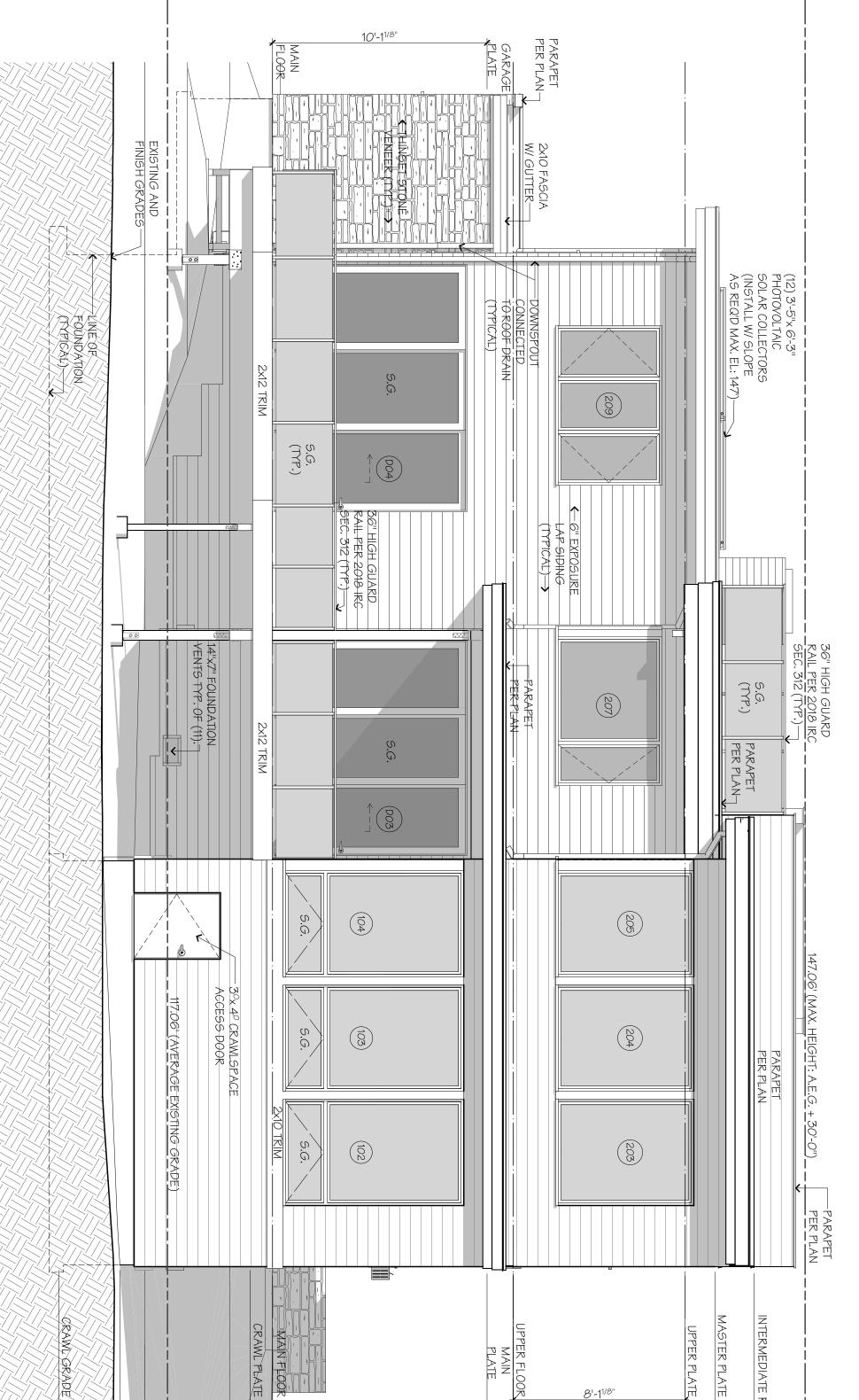
<u>GENERAL NOTES</u>

- 1. PROVIDE ROOF DRAINS TO DOWNSPOUTS PER PLAN, TYPICAL.
- 2. PROVIDE GALVANIZED SHEET METAL FLASHING AND COUNTER-FLASHING AT ALL ROOF PENETRATIONS INCLUDING CHIMNEYS.
- 3. PROVIDE WEATHERSTRIPPING AT ALL DOORS AND WINDOWS. CAULK ALL JOINTS AND PENETRATIONS IN EXTERIOR WALLS.
- 4. FLASHING AT EXTERIOR WINDOW & DOOR OPENINGS SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH OR THE WATER-RESISTIVE BARRIER. FLASHING IS REQUIRED AT ALL EXTERIOR WINDOW JAMBS.
- 5. CEMENTITIOUS STUCCO ON SELF-FURRING METAL LATH WITH ELASTOMERIC ACRYLIC FINISH. PROVIDE EXPANSION / CONTROL JOINTS @ FLOOR & PLATE LINES. PROVIDE (2) LAYERS OF 60 MINUTE GRADE D PAPER OVER WALL SHEATHING. ATTACH SO THAT PAPER IS TAUT & FLAT, ATTACH w/ SMALL STAPLES. FOLLOW ALL REQUIREMENTS FROM NORTHWEST WALL & CEILING BUREAU FOR INSTALLATION.
- 6. MASONRY VENEER TO BE INSTALLED PER MANUF. SPEC. AND/OR MASONRY INSTITUTE SPEC. ADHERED MASONRY VENEER TO BE 4" MIN. CLEAR TO GRADE, 2" MIN. CLEAR TO PAVED SURFACES, 1/2" MIN. CLEAR TO WALKING SURFACES SUPPORTED BY THE SAME FOUNDATION.
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL SELECTION OF PRODUCTS WHERE DISSIMILAR MATERIALS MAY INTERACT. COMPATIBILITY, CONTACT, ADJACENCY, CONSTRUCTION METHOD, DIRECTION OF FLOW, CHEMISTRY, AND/OR CLIMATIC CONDITIONS SHALL ALL BE CONSIDERED AND PROVEN MATERIALS AND INSTALLATION METHODS SHALL BE SELECTED. MATERIAL CHOICES WHICH MAY BE AFFECTED BY, BUT ARE NOT LIMITED TO, DISSIMILAR MATERIAL INTERACTION ARE: ASPHALTIC ROOFING, PVC ROOFING, CAULKING, RIGID AND FLEXIBLE FLASHINGS, VINYL WINDOWS, METAL FRAMING CONNECTORS, NAILS AND FASTENERS, TREATED LUMBER, SPRAY AND RIGID FOAMS, AND BUILDING WRAP/AIR BARRIER MATERIALS.











NORTH & WEST ELEVATIONS

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NORTH ELEVATION

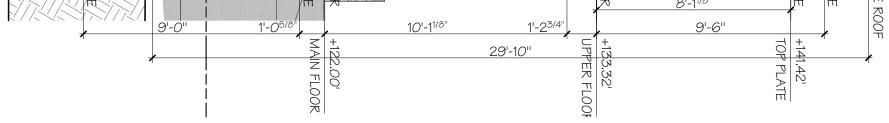


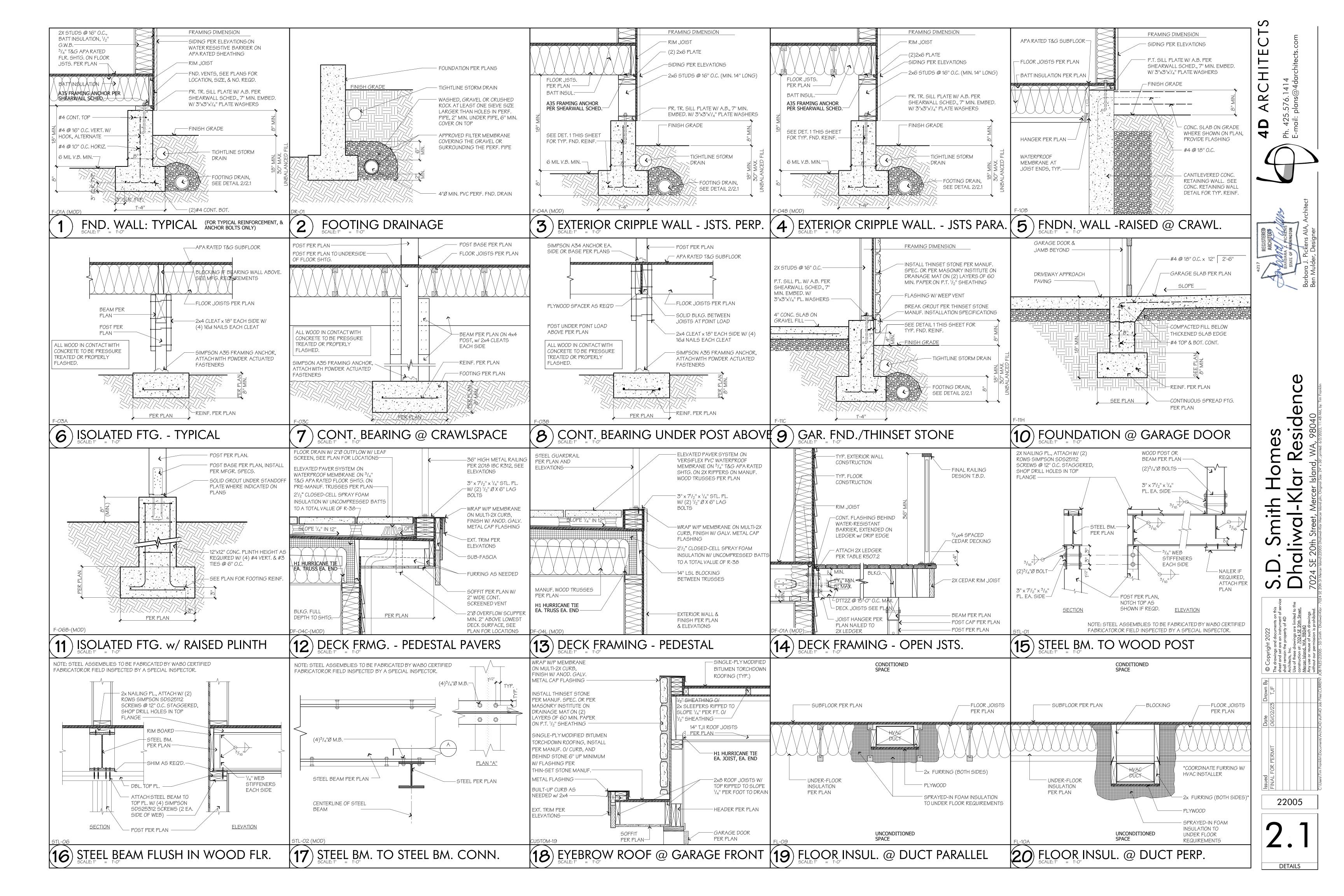
- \mathbb{N} PROVIDE ROOF DRAINS TO DOWNSPOUTS PER PLAN, TYPICAL
- 3 PROVIDE WEATHERSTRIPPING AT ALL DOORS AND WINDOWS. CAULK ALL JOINTS AND PENETRATIONS IN EXTERIOR WALLS. \subseteq PROVIDE GALVANIZED SHEET METAL FLASHING AND COUNTER-FLASHING AT ALL ROOF PENETRATIONS INCLUDING CHIMNEYS.
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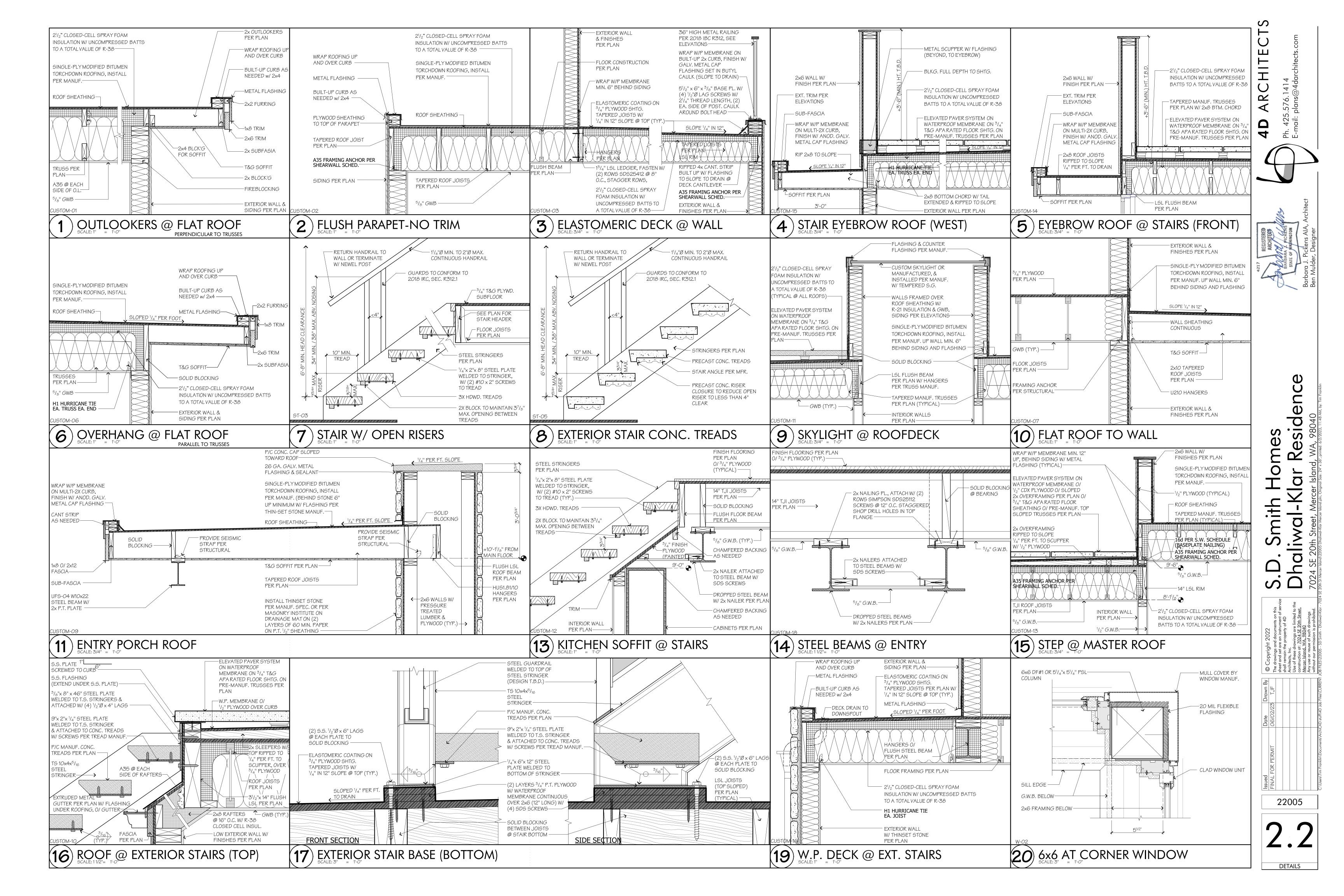
Issued FINAL FOR PERMIT	06/02/23		shall remain the property of 4D Architects, Inc. Use of these drawings are limited to the construction at: <u>7024 SE 20th Street,</u> <u>Mercer Island, WA, 98040</u> Any use or reuse of such drawings without our permission is prohibited.	S.D. Smith Homes Dhaliwal-Klar Residence 7024 SE 20th Street, Mercer Island, WA, 98040
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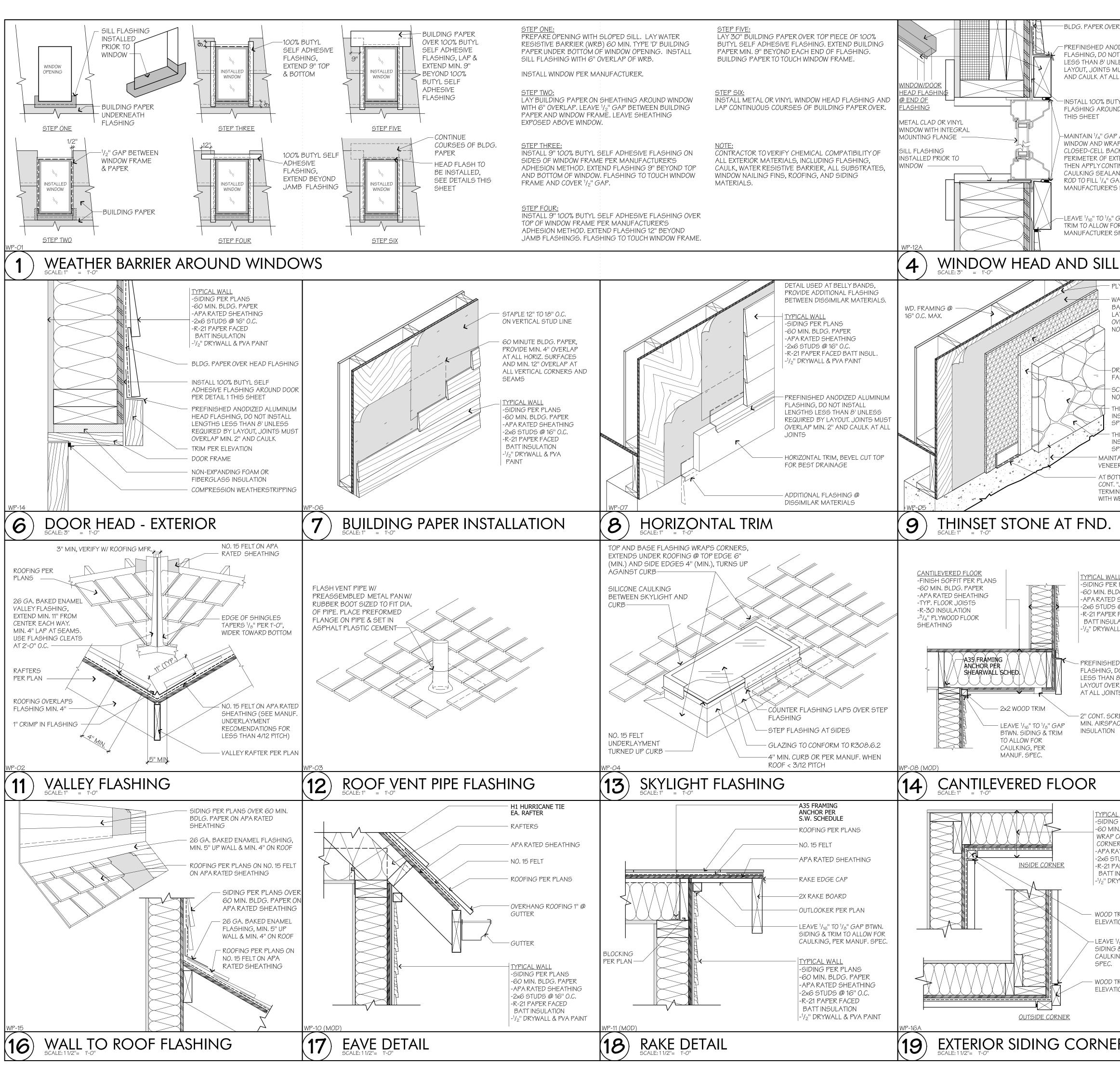












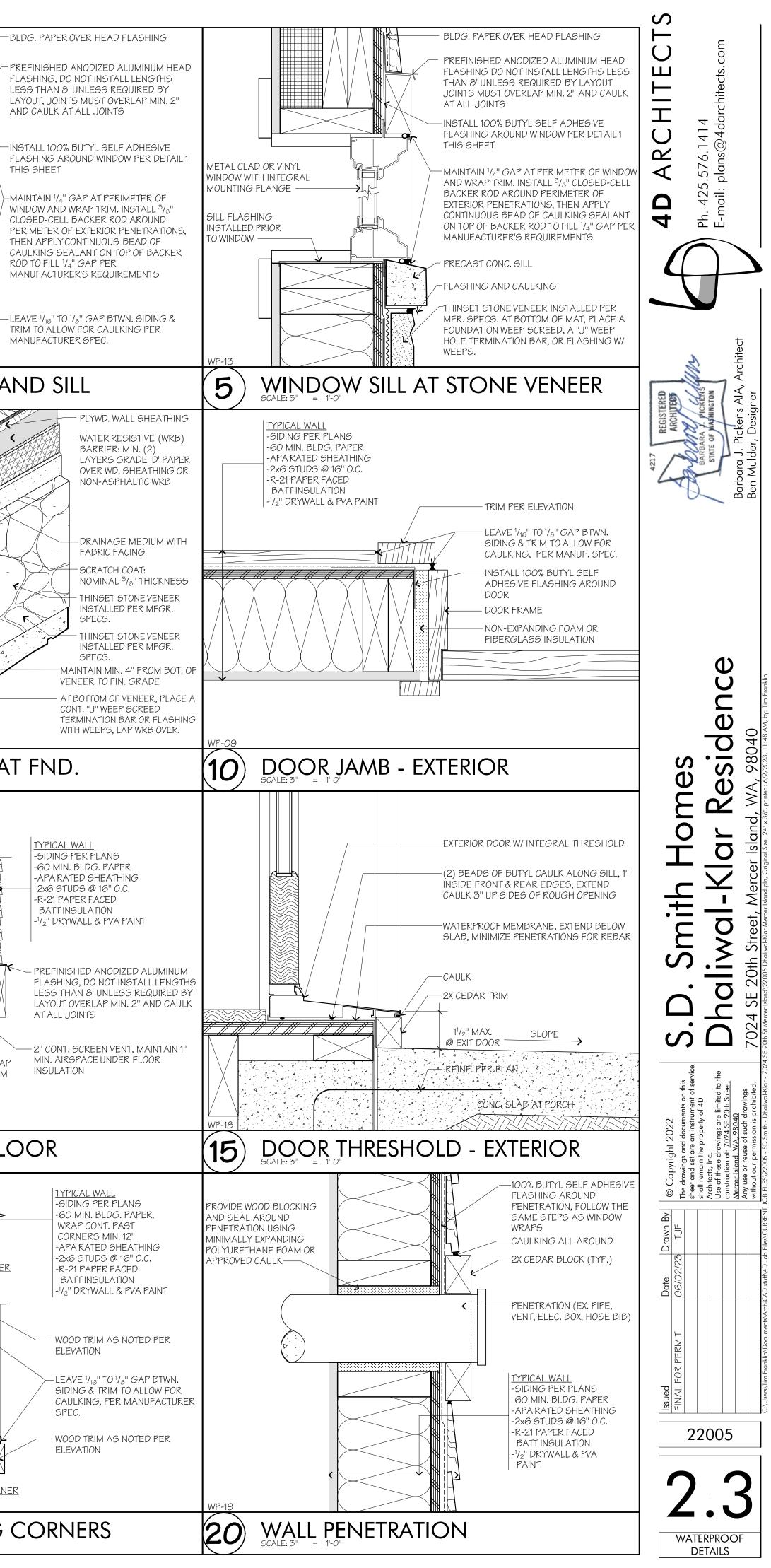
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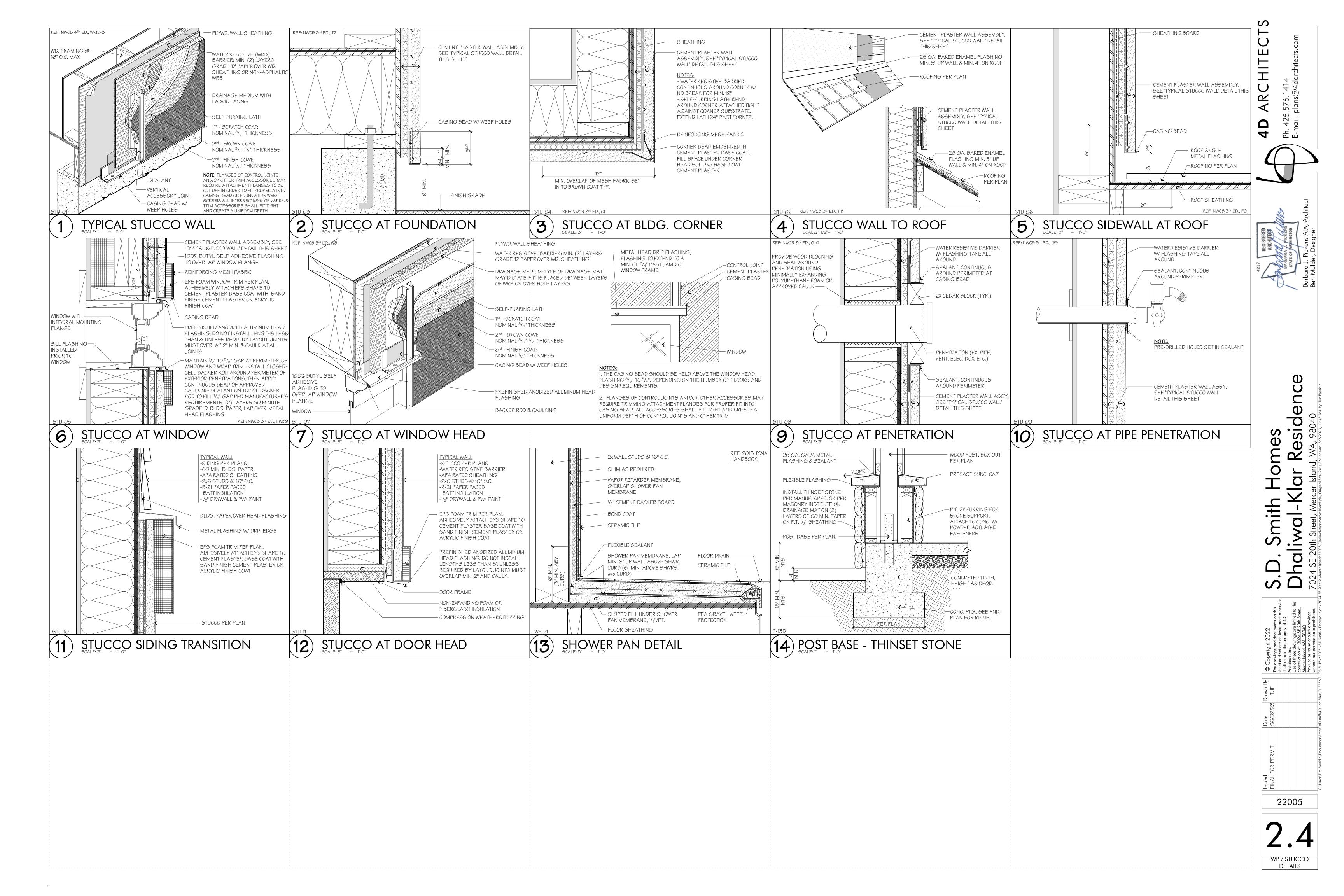
MANUFACTURER SPEC.

EXTERIOR SIDING CORNERS

OUTSIDE CORNER

INSIDE CORNER





SKYLIGHT SCHEDULE

MARK	WIDTH	HEIGHT	ELEVATION, N.T.S.	NOTES	ROOM
SL1	3'	4'		TEMPERED SAFETY GLASS	HALL

ARI	EA
	12.0
	12.0 ft²

EXTERIOR DOOR SCHEDULE

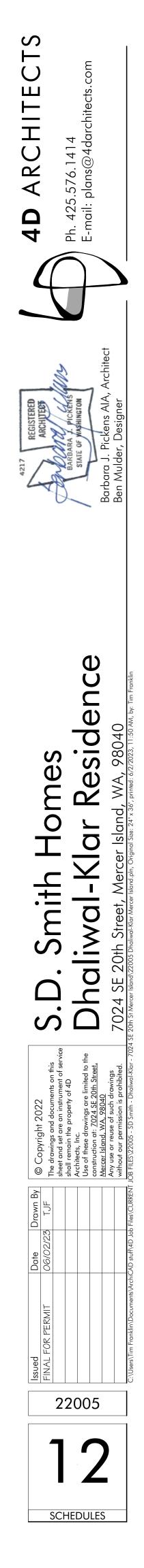
MARK	WIDTH	HEIGHT	ELEVATION, N.T.S.	NOTES	ROOM	UNIT AREA
DO1	3'	8'		WOOD DOOR W/ SIDELITES AND SAFETY GLASS	ENTRY	57.2
DO2	12'	9'		SLIDING DOOR SAFETY GLASS	GREAT ROOM	109.9
DO3	10'	9'		SLIDING DOOR SAFETY GLASS	DINING	91.8
D04	11'-6"	9'		SLIDING DOOR SAFETY GLASS	SITTING	105.4
D05	2'-8"	6'-8"		W/ SAFETY GLASS	SITTING TO W.P. DECK	18.8
						493.0 ft²

WINDOW SCHEDULE

HEAP HEAP H LEVATION, N.T.G. TYPE ROOM MA 101 90 9-90 9 200596°C7 KITCHEN 1 102 9-9 9-00 9 9 9 9 200596°C7 KITCHEN 1 102 9-9 9-00 9	NIT AREA 33.0 42.5 42.5
101 6' 5'-6' 9' 2''''''''''''''''''''''''''''''''''''	42.5
102 5' 8'-6" 9' 50'×20" A W/ GREAT ROOM 103 5' 8'-6" 9' 50'×20" A W/ GREAT ROOM 104 5' 8'-6" 9' 1 50'×20" A W/ GREAT ROOM 104 5' 8'-6" 9' 1 50'×20" A W/ GREAT ROOM 105 4' 8'-6" 9' 1 50'×20" A W/ GREAT ROOM 106 4' 8'-6" 9' 1 50'×50" F/ 50'×20" A W/ GREAT ROOM 106 4' 8'-6" 9' 1 50'×50" F/ 50'×50" F/ 50'×50" F/ 107 5' 5' 7'-3" 1 1 6''×50" F/ 50'×50" F/ 50'×50" F/ 107 5' 1'-6" 9' 1 1 6''×50" F/ 51''1NG 51''1NG 107 5' 1'-6" 9' 1 1 51''NB' 51''NB' 51''NB' 108 2' 5' 8'-73/4" 1 1 1 M/D M/D 109 2' 5'	
103 5' 8'-6" 9' 50'×20" A W/ SREAT ROOM 50'×60" F/ 104 5' 8'-6" 9' 50'×60" F/ S0'×60" F/ S0'×60" F/ 105 4' 6'-6" 9' 100 FIXED DINING 1 106 7-6" 6' 7' 1 1 S''×50" C/ SITTING 1 107 5' 6' 9' 1 1 SITTING SITTING SITTING 107 5' 1'-6" 9' 1 1 RANSOM SITTING SITTING 107 5' 1'-6" 9' 1 1 RANSOM SITTING SITTING 107 5' 1'-6" 9' 1 1 RANSOM SITTING SITTING 108 2' 5' 8'-73/4" 1 1 RANSOM SITTING NUD 109 2' 5' 8'-73/4" 1 1 RANSOM SITTING NUD 109 2' 5' 8'-73/4" 1 E A'-73/4"	42.5
104 5" 8"-6" 9" 50" 20" A W/ GREAT ROOM 105 4" 6"-6" 9" Image: Signature Signate Signature Signate Signatu	
Image:	45.7
106 7-6" 5 7-3" 50"x50" F 511106 107 5' 1'-6" 9 FIXED 51TING 107a 2'-6" 1'-6" 9 FIXED 51TING 107a 2'-6" 1'-6" 9' FIXED 51TING 107b 2'-6" 1'-6" 9' FIXED 51TING 108 2' 5' 8'-73/4" FIXED MUD 109 2' 5' 8'-73/4" FIXED MUD 109 2' 5' 8'-73/4" FIXED MUD 110 7' 1'-6" 10'-1/2" FIXED MUD 110 7' 1'-6" 10'-1/2" FIXED ENTRY 111 6' 2'-13/4" 2'-73/8" FIXED STAIRS 112 6' 2'-13/4" 5'-18/4" FIXED STAIRS	28.4
107 5 1-6" 9 Image: String string string String string 107a 2-6" 1'-6" 9' Image: String string string String string 108 2' 5' 8'-73/4" Image: String string string String string 109 2' 5' 8'-73/4" Image: String string string string MUD 109 2' 5' 8'-73/4" Image: String strin	37.5
107a 2-6" 1-6" 9 Image: Similar strains of the str	7.5
109 2' 5' 8'-7 3/4" FIXED MUD 110 7' 1'-6" 10'-1/2" FIXED MUD 111 6' 2'-1 3/4" 2'-7 3/8" FIXED STAIRS 112 6' 2'-1 3/4" 5'-1/8" FIXED STAIRS	3.8
110 7' 1'-6'' 10'-1/2'' FIXED ENTRY 111 6' 2'-1 3/4'' 2'-7 3/8'' FIXED STAIRS 112 6' 2'-1 3/4'' 5'-1/8'' FIXED STAIRS	10.0
111 6' 2'-1 3/4" 2'-7 3/8" FIXED W/ 5.G. STAIRS 112 6' 2'-1 3/4" 5'-1/8" FIXED STAIRS STAIRS	10.0
111 6' 2'-1 5/4" 2'-7 5/8" W/ 5.G. STAIRS 112 6' 2'-1 3/4" 5'-1/8" FIXED STAIRS	10.5
	13.8
	13.8
113 6' 2'-1 3/4" 7'-4 7/8" FIXED STAIRS STAIRS	13.8
114 6' 2'-1 3/4" 9'-9 5/8" FIXED STAIRS	13.8
115 6' 2'-1 3/4" 2'-7 3/8" FIXED W/ S.G. STAIRS	13.8
116 6' 2'-1 3/4" 5'-1/8" FIXED W/ S.G. STAIRS	13.8
117 6' 2'-1 3/4" 7'-4 7/8" FIXED STAIRS	13.8
118 6' 2'-1 3/4" 9'-9 5/8" FIXED STAIRS	13.8
201 2' 4' 8'-6" FIXED MASTER	8.0
202 2' 4' 8'-6" FIXED MASTER	8.0

WINDOW SCHEDULE (CONTINUED)

MARK	e WIDTH	HEIGHT	HEAD HT.	ELEVATION, N.T.S.	TYPE	ROOM	UNIT AREA
203	5'	6'-6"	8'-6"		FIXED	MAGTER	32.5
204	5'	6'-6"	8'-6"		FIXED	MASTER	32.5
205	5'	6'-6"	8'-6"		FIXED	MASTER	34.9
206	10'	6'-6"	8'-6"		2'6"x6'6" C/ 5'0"x6'6" F/ 2'6"x6'6" C/ EGRESS	MASTER	67.4
207	7'	5'	7'		5'0"x5'0" F/ 2'6"x5'0" C W/ S.G.	MASTER BATH	36.9
208	4'	5'	7'		FIXED W/ S.G.	MASTER BATH	21.9
209	7'-6"	5'	7'		2'6"x5'0" C/ 2'6"x5'0" F/ 2'6"x5'0" C EGRESS	BED 2	37.5
210	2'	4'	7'		CASEMENT	BED 2	8.0
211	2'	4'	7'		CASEMENT	BED 2	8.0
212	2'	4'	7'		CASEMENT W/ S.G.	BATH 2	8.0
213	8'-6"	5'	7'		2'6''x5'0'' C/ 6'0''x5'0'' F EGRESS	BED 3	42.5
214	2'	5'	7'		FIXED	BATH 3	10.0
215	6'	2'-1 3/4"	12'-2 3/8"		STAIRS	FIXED	13. <i>8</i>
216	6'	2'-1 3/4"	14'-7 1/8"		STAIRS	FIXED	13.8
217	6'	2'-1 3/4"	16'-11 7/8"		STAIRS	FIXED	13.8
218	6'	2'-1 3/4"	19'-4 5/8''		STAIRS	FIXED	13.8
219	6'	2'-1 3/4"	12'-2 3/8"		STAIRS	FIXED	13.8
220	6'	2'-1 3/4"	14'-7 1/8"		STAIRS	FIXED	13.8
221	6'	2'-1 3/4"	16'-11 5/8"		STAIRS	FIXED	13.8
222	6'	2'-1 3/4"	19'-4 3/8''		STAIRS	FIXED	13.8
223	5'	1'-6"	7'		FIXED	MASTER W.I.C.	7.5
							855.8 ft²



GENERAL STRUCTURAL NOTES

GENERAL

ALL CONSTRUCTION SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE (IBC), THE 2018 INTERNATIONAL RESIDENTIAL CODE (IRC) AND/OR OTHER GOVERNING CODE, AS REQUIRED BY LOCAL JURISDICTION.

STRUCTURAL DRAWINGS INDICATE TYPICAL AND GENERAL CONSTRUCTION DETAILS. WHERE DETAILS ARE NOT REFERENCED AT LOCATIONS OF SIMILAR CONFIGURATION TO DETAILS PROVIDED, SIMILAR DETAILS SHALL BE EMPLOYED. NOTES ON THE FOLLOWING INDIVIDUAL STRUCTURAL SHEETS SHALL TAKE PRECEDENCE OVER THESE GENERAL STRUCTURAL NOTES. ANY SPECIFICATION CONFLICTS THAT MAY OCCUR WITHIN THIS PLAN SET, THE CONTRACTOR SHALL DEFAULT TO THE MORE STRINGENT/ CONSERVATIVE SPECIFICATION.

THE CONTRACTOR SHALL REVIEW THE CONSTRUCTION DOCUMENTS IN FULL FOR ACCURACY AND ADEQUACY AS RELATED TO SITE CONDITIONS. ANY DISCREPENCIES SHALL BE SUBMITTED TO THE EOR BEFORE PROCEEDING.

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL DESIGN, PERMITTING AND CONSTRUCTION OF ALL UTILITIES INCLUDING PLUMBING, ELECTRICAL AND HVAC. ANY STRUCTURAL MODIFICATIONS SHALL BE SUBMITTED TO THE EOR BEFORE PROCEEDING.

DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS SUPERCEDE. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS (INCLUDING ROUGH OPENINGS) AND SHALL REVIEW ALL DIMENSIONS AND THEIR ACCURACY IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS BEFORE CONSTRUCTION.

THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE, INCLUDING SOIL CONDITIONS (UNLESS SOILS REPORT EXISTS), AND CONDITIONS RELATED TO EXISTING UTILITIES, EASEMENTS, AND/OR RIGHTS OF WAY.

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION, WORKMANSHIP AND JOBSITE SAFETY. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION AND SHALL PROVIDE TEMPORARY BRACING AS REQUIRED UNTIL ALL PERMANENT CONNECTIONS AND STIFFENINGS HAVE BEEN INSTALLED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS WITH THE BUILDING DEPARTMENT.

ANY AND ALL DISCREPANCIES BETWEEN THE STRUCTURAL DRAWINGS AND ANY OTHER JOB-RELATED DRAWINGS, INCLUDING ARCHITECTURAL, CIVIL OR ANY OTHER CONSULTANT DRAWINGS SHALL BE PROVIDED TO THE EOR BEFORE PROCEEDING.

SOILS

SEE DESIGN CRITERIA FOR SOILS REPORT INFORMATION, IF APPLICABLE.

WHERE SOILS REPORT NOT PROVIDED, 2000 PSF SOIL BEARING ASSUMED. ASSUMED ALLOWABLE SOIL BEARING AND LATERAL PRESSURES SHALL BE FIELD-VERIFIED. BEARING SOIL SHALL BE FREE OF ORGANIC MATERIAL. EOR SHALL BE NOTIFIED OF ANY SOILS FOUND TO BE INADEQUATE TO REVIEW FOUNDATION ADEQUACY. SEE ADDITIONAL SOILS NOTES ON RETAINING WALL DETAILS, IF APPLICABLE.

FOUNDATION CONDITIONS

FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED SOIL (OR CONTROLLED, COMPACTED STRUCTURAL FILL) AT LEAST 18" BELOW EXISTING GRADE. ACTUAL ELEVATIONS OF FOOTINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. OVEREXCAVATION SHALL BE BACKFILLED USING LEAN CONCRETE (f'c = 2000 PSI) OR STRUCTURAL BACKFILL.

STRUCTURAL FILL

STRUCTURAL FILL SHOULD CONSIST OF PREDOMINATELY WELL-GRADED, GRANULAR SOIL, FREE OF ORGANIC MATERIAL AND DEBRIS. FILL SHOULD BE PLACED IN MAXIMUM 8" LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT DETERMINED BY ASTM D-1557 TEST PROCEDURES. INFORMATION FOUND WITHIN SOILS REPORT, IF PROVIDED, SHALL TAKE PRECEDENCE. ANY SIGNIFICANT CONSTRUCTION FOUNDED ON STRUCTURAL FILL SHALL BE REVIEWED BY A GEOTECHNICAL ENGINEER LICENSED IN THE STATE OF WASHINGTON.

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS SHALL BE PROVIDED AS REQUIRED BY THE BUILDING DEPARTMENT AND IBC SECTION 1704. THE OWNER SHALL BE RESPONSIBLE FOR RETAINING ANY SPECIAL INSPECTORS REQUIRED. ALL SPECIAL INSPECTION REPORTS SHALL BE PROVIDED TO THE EOR AS APPLICABLE. SEE CONCRETE SECTION FOR MORE ON SPECIAL INSPECTIONS.

SPECIAL INSPECTIONS AND TESTS OF SOILS (IBC 1705.6)

VERIFICATION AND INSPECTION		JENCY	REFERENCES	
	CONTINUOUS	PERIODIC	NEFENENCES	
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHEIVE THE DESIGN BEARING CAPACITY		Х		
VERIFY EXCAVATIONS EXTEND TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		Х		
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		Х		
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X			
PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		Х		

WOOD FRAMING NOTES

GENERAL REQUIREMENTS

PROVIDE MINIMUM NAILING PER 2018 IBC TABLE 2304.10.1 (PROVIDED BELOW), UNLESS NOTED OTHERWISE. ALL WOOD IN CONTACT WITH CONCRETE AND/OR EXPOSED TO WEATHER SHALL BE PRESERVATIVE-TREATED BY AN APPROVED METHOD. ALL CUTS, NOTCHES AND EXPOSED ENDS TO BE RE-TREATED. DO NOT NOTCH, BEVEL OR DRILL STRUCTURAL MEMBERS, EXCEPT AS ALLOWED BY SECTIONS 2308.4.2.4 AND 2308.7.4, OR AS ALLOWED ELSEWHERE WITHIN THIS PLAN SET.

FRAMING LUMBER

STRUCTURAL LUMBER SHALL ADHERE TO THE FOLLOWING TABLE:

MEMBER	GRADING	f'₅ (PSI)	f'∨ (PSI)	f' _c (PSI)	f' _c (PSI)
STUDS, SAWN FLOOR JOISTS, SAWN RAFTERS (2x LUMBER)	HF#2 OR BETTER (HEM FIR #2)	850	150	1300	405
POSTS, BEAMS, HEADERS (4x LUMBER AND GREATER)	DF#2 OR BETTER (DOUG FIR #2)	900	180	1350	625
LVL- LAMINATED VENEER LUMBER (FLUSH BEAMS, COLLECTORS, RAFTERS)	VERSA-LAM 3100 OR EQUIV	3100	285	3000	750
GLB - GLUED-LAMINATED BEAMS (DROPPED, EXPOSED, EXTERIOR, HEADERS)	24F-V4 - TYPICAL 24F-V8 - CANTILEVERED	2400/ 1850(-) 2400/ 2400(-)	265	1650	650
PSL - PARALLEL STRAND LUMBER (FLUSH BEAMS, HEADERS)	2.0E	2900	290	2900	750

2x_ TIMBER SHALL BE KILN DRIED. GRADES SHALL CONFORM TO "WWPA GRADING RULES FOR WESTERN LUMBER". LATEST EDITION.

ROOF DIAPHRAGMS

ADDITIONAL INFORMATION.

FLOOR DIAPHRAGMS

INSTALL MINIMUM 23/32" T&G STURD-I-FLOOR SHEATHING. GLUE AND NAIL ALL SUPPORTED EDGES AND BOUNDARIES WITH 10d AT 6" O.C., AND INTERIOR SUPPORTS WITH 10d AT 12" O.C.; BLOCKING NOT REQUIRED, UNO. SEE FLOOR FRAMING PLAN(S) FOR ADDITIONAL INFORMATION.

WOOD TRUSSES (IBC 2303.4)

TRUSS DESIGN DRAWINGS AND DOCUMENT SUBMITTAL SHALL INCLUDE STRESS ANLYSIS AND DEPICTION OF EACH TRUSS TYPE, AND SHALL INCLUDE A TRUSS LAYOUT. TRUSS ANALYSIS, LAYOUT AND INSTALLATION DOCUMENTS SHALL BEAR THE SEAL AND SIGNATURE OF AN ENGINEER LICENSED IN THE STATE OF WASHINGTON. APPROVED TRUSS DOCUMENTS SHALL REMAIN ON THE JOB SITE THROUGHOUT CONSTRUCTION.

APPROVAL FROM THE TRUSS DESIGN ENGINEER.

UNLESS NOTED OTHERWISE, ALL TRUSSES SHALL BE SPACED AT 24" O.C. AND HAVE SIMPSON H1 CLIPS AT EXTERIOR WALLS. GABLE TRUSSES SHALL HAVE A35 CLIPS @ 24" O.C., UNO.

THE GENERAL CONTRACTOR SHALL PROVIDE THE EOR WITH A COPY OF THE APPROVED TRUSS DOCUMENTS FOR REVIEW. IF THE TRUSS DOCUMENTS WERE DEVELOPED SUBSEQUENT TO THE ISSUANCE OF THIS PLAN SET, THE TRUSS ANALYSES MAY RESULT IN REVISIONS TO THE BEAM CALCULATIONS ASSOCIATED WITH THIS PLAN SET.

FASTENERS

PER THE MANUFACTURER'S INSTRUCTIONS.

NAILS AND STAPLES TO CONFORM TO IBC 2303.6 "NAILS AND STAPLES." ALL NAILING TO BE PROVIDED PER TABLE 2304.10.1 (PROVIDED BELOW). ALL NAILS SPECIFIED SHALL BE COMMON, UNO.

C	OMMON NAIL	.S
SIZE	LENGTH	DIAMETE
8d	2 ¹ / ₂ "	0.131"
10d	3"	0.148"
16d	3 ¹ / ₂ "	0.162"
16d SINKER	3 ¹ / ₄ "	0.148"

INSTALL MINIMUM 1/2" CDX PLYWOOD (32/16) OR 7/16" OSB SHEATHING. NAIL ALL SUPPORTED EDGES AND BOUNDARIES WITH 8d AT 6" O.C., AND INTERIOR SUPPORTS WITH

8d AT 12" O.C.; BLOCKING NOT REQUIRED, UNO. SEE ROOF FRAMING PLAN(S) FOR

PRE-FABRICATED WOOD TRUSSES TO BE DESIGNED PER IBC 2303.4.1.1 TO CARRY LOADS LISTED IN THE DESIGN CRITERIA SECTION AND ANY ADDITIONAL POINT LOADS, UNIFORM LOADS OR DRAG STRUT FORCES PROVIDED ON THE ROOF FRAMING PLAN(S).

PRE-FABRICATED TRUSSES SHALL NOT BE NOTCHED, DRILLED, CUT, SPLICED OR OTHERWISE ALTERED WITHOUT WRITTEN APPROVAL FROM THE TRUSS DESIGN ENGINEER. ALTERATIONS RESULTING IN THE ADDITION OF LOADS TO ANY MEMBER (E.G. HVAC EQUIPMENT, PIPING, ETC.) SHALL NOT BE PROHIBITED WITHOUT WRITTEN

THE LATEST SIMPSON STRONG-TIE COMPANY, INC. PRODUCTS WERE USED AS A BASIS FOR THIS PROJECT. CONNECTORS BY ALTERNATE MANUFACTURERS MAY BE SUBSTITED PROVIDED THEY HAVE CURRENT ICC-ESR/IAPMO-ER APPROVAL FOR EQUIVALENT OR GREATER LOAD CAPACITIES. ALL FASTENERS AND CONNECTORS SHALL BE INSTALLED



CONCRETE NOTES

CONCRETE SHALL CONSIST OF PORTLAND CEMENT ASTM C-150 TYPE II OR TYPE I AND SHALL BE READY-MIXED PER ASTM C-94, MAXIMUM SLUMP 5". MINIMUM 51/2 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE. SEGREGATION OF MATERIALS TO BE PREVENTED.

MINIMUM SPECIFIED COMPRE	SSIVE STRENGTI	H (f'C AT 28 DAYS) ACI 318-14
LOCATION/USE	f'c (PSI)	SPECIAL INSPECTION & TESTING REQUIRED
FOOTING PADS & FOUNDATIONS NOT EXPOSED TO WEATHER	2500	NOT REQUIRED
PORCHES, PATIOS, DRIVEWAYS GARAGE SLABS	3000	NOT REQUIRED
FOUNDATION STEM WALLS AND INTERIOR SLABS ON GRADE	2500	NOT REQUIRED

REINFORCEMENT STEEL

REINFORCING STEEL #5 BARS AND LARGER SHALL BE GRADE 60 DEFORMED BARS, AND #3 AND #4 BARS SHALL BE GRADE 40. IN ACCORDANCE WITH ASTM A-615. LAP SPLICES 32 BAR DIAMETERS OR 18" MIN. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185 AND SHALL BE 6X6 – W1.4 X W1.4. LAP ONE FULL MESH AT SPLICES. SEE CONCRETE DETAILS FOR MORE INFORMATION.

CONCRETE COVER REQUIREM	MENTS
REINFORCING BAR LOCATION	MIN CONCRETE COVER
UNFORMED SURFACES CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
FORMED SURFACES EXPOSED TO EARTH OR WEATHER (#6 BARS AND LARGER)	2"
FORMED SURFACES EXPOSED TO EARTH OR WEATHER (#5 BARS AND SMALLER)	11/2"
COLUMNS AND BEAMS WITH BARS ENCLOSED IN STIRRUPS, TIES OR SPIRAL REINFORCEMENT	11/2"
SLABS, JOISTS AND INTERIOR FACES OF WALLS (#5 BARS AND SMALLER)	3/4"

SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION (IBC 1705.3)

VERIFICATION AND INSPECTION	FREQU	JENCY	REFERENCES
	CONTINUOUS	PERIODIC	REFERENCES
INSPECT REINFORCEMENT AND VERIFY PLACEMENT		Х	IBC 1908.4 ACI 318: CH. 20, 25.2-3, 26.6.1-3
INSPECT ANCHORS CAST IN CONCRETE		Х	ACI 318: 17.8.2
VERIFY REQUIRED DESIGN MIX		Х	IBC 1904.1-2, 1908.2-3 ACI 318: CH. 19, 26.4.3-4
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE TEMPERATURE OF CONCRETE	Х		IBC 1908.10 ASTM C172, C31 ACI 318: 26.5, 26.12
INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	Х		IBC 1905.6-8 ACI 318: 26.5
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		Х	IBC 1908.9 ACI 318: 26.5.3-5
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE BEING POURED		Х	ACI 318: 26.11.1.2(b)

MINIMUM FASTENING SCHEDULE (UNO) (PER 2018 IBC TABLE 2304.10.1

NO.	CONNECTION	
1	BLOCKING BETWEEN JOIST/RAFTER OR TRUSSES TO TOP PLATE OR OTHER FRAMING ABOVE	(3) 8d,
2	BLOCKING BETWEEN JOIST/RAFTER OR TRUSSES NOT AT THE WALL TOP PLATE, TO RAFTER OR TRUSS	(2) 8d,
3	FLAT BLOCKING TO TRUSS AND WEB FILLER	16d FA
4	JOISTS TO TOP PLATE OR GIRDER	(3) 8d,
5	CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (NO THRUST)	(3) 16c
6	COLLAR TIE TO JOIST/RAFTER	(3) 10c
7	ROOF TRUSS TO TOP PLATE	(3) 10c
8	ROOF JOIST/RAFTER TO RIDGE VALLEY OR HIP RAFTERS; OR ROOF RAFTER TO 2" RIDGE BEAM	(2) 16c
9	STUD TO STUD (NOT AT SHEAR WALLS)	16d @
10	CONTINUOUS HEADER TO STUD	(4) 8d,
11	TOP PLATE TO TOP PLATE, AT END JOINTS	(8) 160
12	SILL PLATE TO JOIST, RIM JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16d @
13	SILL PLATE TO JOIST, RIM JOIST OR BLOCKING AT BRACED WALL PANELS	(3) 16c
14	STUD TO SILL PLATE	(4) 8d,
15	TOP PLATE TO STUD	(2) 160
16	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	(2) 160
17	1" BRACE TO EACH STUD AND PLATE	(2) 8d,
18	1" x 6" SHEATHING OR LESS TO EACH BEARING	(2) 8d,
19	1" x 8" AND WIDER SHEATHING TO EACH BEARING	(3) 8d,
20	JOIST TO SILL, TOP PLATE OR GIRDER	(3) 8d,
21	RIM JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER FRAMING BELOW	8d @ 6
22	1" x 6" SUBFLOOR OR LESS TO EACH JOIST	(2) 8d,
23	2" SUBFLOOR TO JOIST OR GIRDER	(2) 160
24	2" PLANKS (PLANK & BEAM - FLOOR & ROOF)	(2) 16c
25	BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	20d @
26	LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	(3) 16c
27	JOIST TO RIM JOIST	(3) 16c
28	BRIDGING OR BLOCKING TO JOIST	(2) 8d,
	*USE (4) 16d END NAIL STUDS TO TOP AND SILL PLATES AT 2x10 STUDS	

DESIGN CRITERIA

NOMINAL WIND SPEED – 85 MPH ULTIMATE WIND SPEED – 110 MPH WIND EXPOSURE, B

RISK CATEGORY II IMPORTANCE, I = 1.0 $K_{7T} = 1.00$

SEISIMIC: EQUIVALENT LATERAL FORCE PROCEDURE IMPORTANCE, Ie = 1.0 $S_{s} = 1.36$ SITE CLASS, D $S_1 = 0.52$ SEISMIC DESIGN CAT., D $S_{DS} = 0.91$ SEIS. FORCE RES. SYS, A.15. $S_{D1} = NA$ DESIGN BASE SHEAR = 17195 lbs $C_{s} = 0.14$ RISK CATEGORY II R = 6.5

LIVE LOADS: ROOF 25 (SNOW) FLOOR 40 PSF DECKS 60 PSF

INSPECTIONS NO SPECIAL INSPECTIONS ARE REQUIRED. VERIFY INSPECTIONS REQUIRED WITH AUTHORITY HAVING JURISDICTION.

SOILS

GEOTECH EOR: NA REPORT #: NA WHERE SOILS REPORT NOT PROVIDED, 2000 PSF SOIL BEARING ASSUMED.

SCOPE OF STRUCTURAL WORK

SEISMIC AND WIND ANALYSIS (LATERAL DESIGN)

VERTICAL LOAD ANALYSIS (GRAVITY DESIGN)

FOUNDATION DESIGN/VERIFICATION

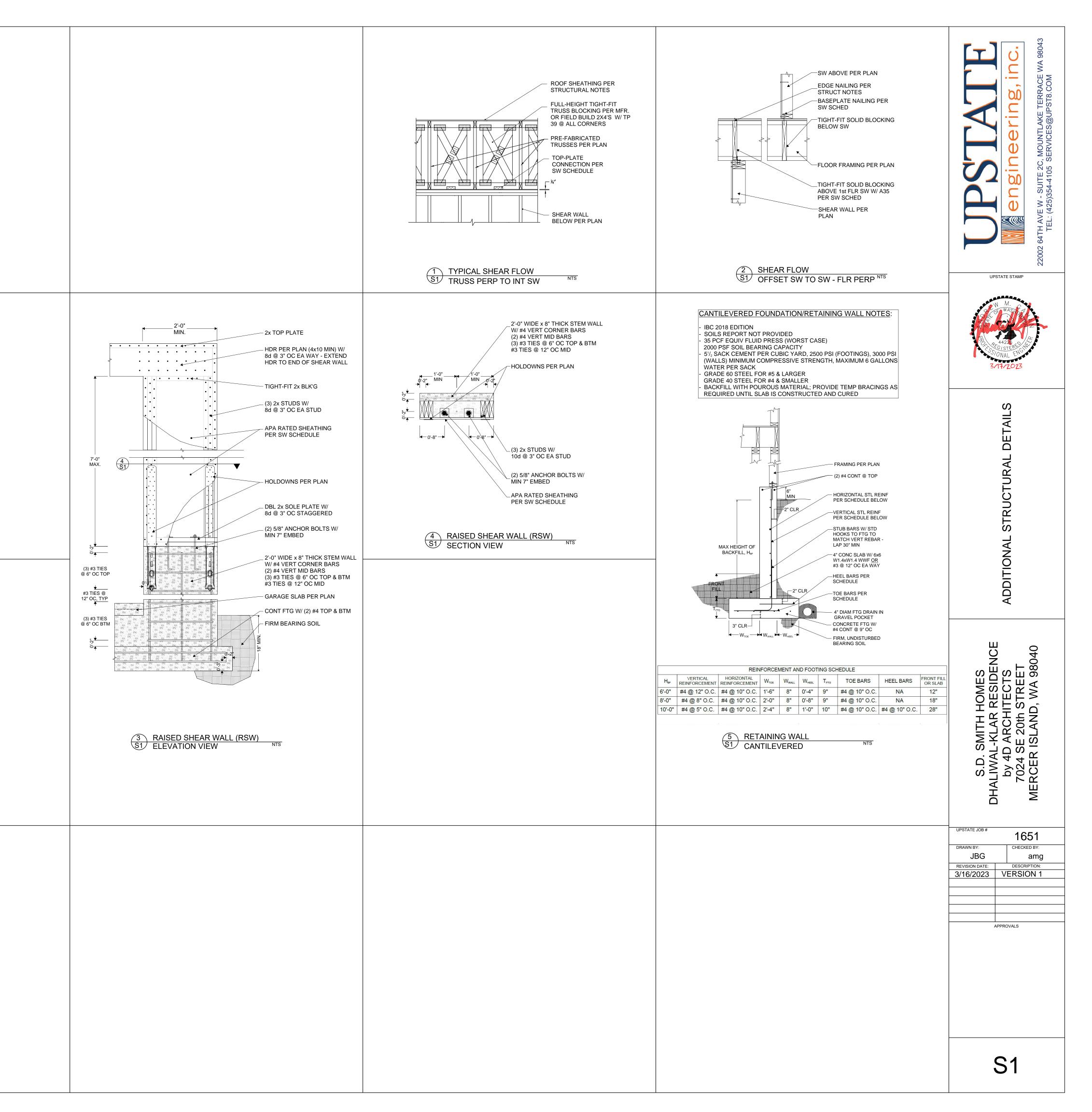
STRUCTURAL DRAFTING

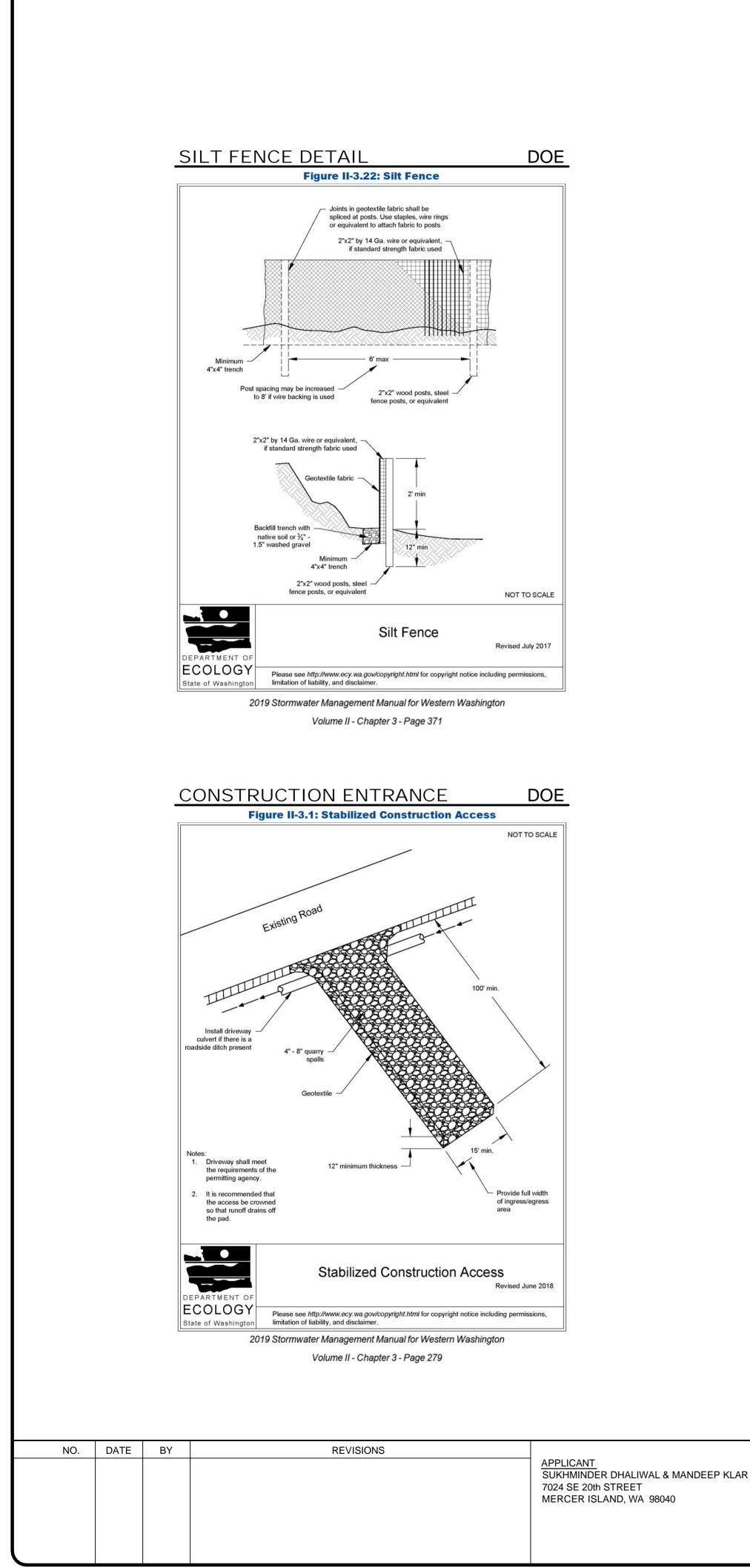
STRUCTURAL DETAILING

NAILING, LOCATION (UNO)	
d, TOENAIL EACH END	
d, TOENAIL EACH END	
FACE NAIL	
d, TOENAIL	
6d	
0d	
0d, TOENAIL	
6d, END NAIL	
@ 24" O.C., FACE NAIL	
d, TOENAIL	
6d, EACH SIDE OF END JOINT, FACE NAIL (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)	
@ 16" O.C., FACE NAIL	
6d @ 16" O.C., FACE NAIL	
d, TOENAIL OR (2) 16d, END NAIL*	
6d, END NAIL	
6d, FACE NAIL	
d, FACE NAIL	
d, FACE NAIL	
d, FACE NAIL	
d, TOENAIL	
9 6" O.C., TOENAIL	
d, FACE NAIL	
6d, BLIND AND FACE NAIL	
6d, EACH BEARING, FACE NAIL	
@ 32" O.C., FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES AND (2) 20d AT ENDS OF EACH SPLI	CE
6d, EACH JOIST OR RAFTER, FACE NAIL	
6d, END NAIL	
d, EACH END, TOENAIL	



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- THAN 30 DAYS.

RECOMMENDED CONSTRUCTION SEQUENCE

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

1. HOLD AN ONSITE PRE-CONSTRUCTION MEETING.

2. POST SIGN WITH NAME AND PHONE NUMBER OF ESC SUPERVISOR (MAY BE CONSOLIDATED WITH THE REQUIRED NOTICE OF CONSTRUCTION SIGN).

3. FLAG OR FENCE CLEARING LIMITS.

4. INSTALL CATCH BASIN PROTECTION, IF REQUIRED.

5. GRADE AND INSTALL CONSTRUCTION ENTRANCE(S).

6. INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).

7. CONSTRUCT SEDIMENT PONDS AND TRAPS.

8. GRADE AND STABILIZE CONSTRUCTION ROADS.

9. CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT.

10. MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH CITY OF MERCER ISLAND STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.

11. RELOCATE SURFACE SURFACE WATER CONTROLS OR TESC MEASURES, OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, THE TESC IS ALWAYS IN ACCORDANCE WITH CITY OF MERCER ISLAND TESC REQUIREMENTS.

12. COVER ALL AREAS THAT WILL BE UN-WORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON (MAY 1 TO SEPT 30) OR TWO DAYS DURING THE WET SEASON (OCT 1 TO APRIL 30) WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING, OR EQUIVALENT.

13. STABILIZE ALL AREAS WITHIN SEVEN DAYS OF REACHING FINAL GRADE.

14. SEED, SOD, STABILIZE, OR COVER ANY AREAS TO REMAIN UNWORKED FOR MORE

15. UPON COMPLETION OF THE PROJECT, STABILIZE ALL DISTURBED AREAS AND REMOVE BMPS IF APPROPRIATE.

DENUDED AREAS REQUIREMENTS

APRIL 1 TO SEPT 30

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

OCT 1 TO MARCH 31

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

EROSION CONTROL NOTES

D.8.2 STANDARD ESC PLAN NOTES

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

1. APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN DOE CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILI 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 APPLICAN SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.

3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY SURVEY TAPE OR FENCING, IF REQUIRED, PRIOR TO CONSTRUCTION (SWDM APPENDIX D). DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEAR LIMITS SHALL BE MAINTAINED BY THE APPLICANT/ESC SUPERVISOR FOR THE DU OF CONSTRUCTION.

4. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGIN CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDIT MEASURES, SUCH AS CONSTRUCTED WHEEL WASH SYSTEMS OR WASH PADS, REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN AND TRACK O ROAD RIGHT OF WAY DOES NOT OCCUR FOR THE DURATION OF THE PROJECT.

5. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR T CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJ PROPERTIES IS MINIMIZED.

6. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE E FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G. ADDITIONAL COV MEASURES, ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FEND PERIMETER PROTECTION ETC.) AS DIRECTED BY CITY OF MERCER ISLAND.

7. 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 FACILITIE

8. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT NOT BE DISTURBED FOR TWO CONSECUTIVE DAYS DURING THE WET SEASON O SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WIT APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.

9. ANY AREA NEEDING ESC MEASURES THAT DO NOT REQUIRE IMMEDIATE ATTE SHALL BE ADDRESSED WITHIN SEVEN (7) DAYS.

10. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAIN MINIMUM OF ONCE A MONTH DURING THE DRY SEASON, BI-MONTHLY DURING T SEASON, OR WITHIN TWENTY FOUR (24) HOURS FOLLOWING A STORM EVENT.

11. AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LI SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT F SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.

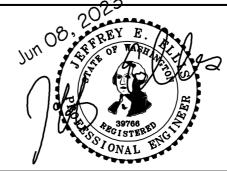
12. ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE FACILI FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY BE ROUGH GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEE ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY.

13. COVER MEASURES WILL BE APPLIED IN CONFORMANCE WITH APPENDIX D OF SURFACE WATER DESIGN MANUAL

14. PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED ARI SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATIO THE WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK OF BEGINNING OF THE WET SEASON.

DATE:	Jun 08, 2023
JOB#	2060

DRAFTED: SS DESIGN: DE DIGITAL SIGNATURE





102 NW CANAL STREET PHONE: 206.930.0342

	1. ANY CHAN	IGES TO THE APPROVED PLANS REQUIRES CITY APPROVAL THROUGH
	A REVISIO	
		T IS RESPONSIBLE FOR ANY DAMAGES TO UNDERGROUND UTILITIES ROM THIS CONSTRUCTION.
	BASINS/IN AREA. CAT FOR USE A CATCH BA	ASIN FILTERS SHOULD BE PROVIDED FOR ALL STORM DRAIN CATCH LETS DOWNSLOPE AND WITHIN 500 FEET OF THE CONSTRUCTION TCH BASIN FILTERS SHOULD BE DESIGNED BY THE MANUFACTURER AT CONSTRUCTION SITES AND APPROVED BY THE CITY INSPECTOR. ASIN FILTERS SHOULD BE INSPECTED FREQUENTLY, ESPECIALLY AFTER /ENTS. IF THE FILTER BECOMES CLOGGED, IT SHOULD BE CLEANED OR D.
C	4. CONTRAC	TORS SHALL VERIFY LOCATIONS AND DEPTHS OF UTILITES.
	5. AT LEAST 1.800.424.5555	48 HOURS PRIOR TO CONSTRUCTION, CALL "ONE CALL" AT
		ACKFILL WITH NATIVE MATERIAL ON PUBLIC RIGHT-OF-WAY. ALL MUST BE IMPORTED
DN	PROVISIO	CONTROL: ALL "LAND DISTURBING ACTIVITY" IS SUBJECT TO NS OF MERCER ISLAND ORDINANCE 95C-118 "STORM WATER IENT." SPECIFIC ITEMS TO BE FOLLOWED AT YOUR SITE:
GF L BE D	8. PROTECT SEDIMENT APPROPR ARE NOT I	ADJACENT PROPERTIES FROM ANY INCREASED RUNOFF OR TATION DUE TO THE CONSTRUCTION PROJECT THROUGH THE USE OF IATE "BEST MANAGEMENT PRACTICES" (BMP) EXAMPLES INCLUDE, BUT LIMITED TO, SEDIMENT TRAPS, SEDIMENT PONDS, FILTER FABRIC /EGETATIVE BUFFER STRIPS OR BIOENGINEERED SWALES.
CENT	STABILIZE	CTION ACCESS TO THE SITE SHOULD BE LIMITED TO ONE ROUTE. ENTRANCE WITH QUARRY SPALLS TO PREVENT SEDIMENT FROM THE SITE OR ENTERING THE STORM DRAINS.
R D	OTHER TY	SEDIMENT, CONSTRUCTION DEBRIS, PAINTS, SOLVENTS, ETC., OR PES OF POLLUTION FROM ENTERING PUBLIC STORM DRAINS. KEEP ALL N ON YOUR SITE.
	DAYS AND	SED SOILS SHALL REMAIN DENUDED FOR NO LONGER THAN SEVEN (7) SHALL BE STABILIZED WITH MULCH, HAY, OR THE APPROPRIATE COVER. ALL EXPOSED SOILS SHALL BE COVERED IMMEDIATELY DURING EVENT.
≣	12. INSTALLA BOULDER ALLOWED ENCROAC	TION OF CONCRETE DRIVEWAYS, TREES, SHRUBS, IRRIGATION, S, BERMS, WALLS, GATES, AND OTHER IMPROVEMENTS ARE NOT IN THE PUBLIC RIGHT-OF-WAY WITHOUT PRIOR APPROVAL, AND AN HMENT AGREEMENT AND RIGHT OF WAY PERMIT FROM THE SENIOR MENT ENGINEER.
r	EXISTING CONSTRU SPREADEI MINIMIZE I DRAINAGE	HALL CONTROL DISCHARGE OF SURFACE DRAINAGE RUNOFF FROM AND NEW IMPERVIOUS AREAS IN A RESPONSIBLE MANNER. CTION OF NEW GUTTERS AND DOWNSPOUTS, DRY WELLS, LEVEL RS OR DOWNSTREAM CONVEYANCE PIPE MAY BE NECESSARY TO DRAINAGE IMPACT TO YOUR NEIGHBORS. CONSTRUCTION OF MINIMUM IMPROVEMENTS SHOWN OR CALLED OUT ON THIS PLAN DOES NOT LIEF FROM CIVIL LIABILITY FOR YOUR DOWNSTREAM DRAINAGE.
	ACTIVITIE: SYSTEMS)	NG THE PUBLIC UTILITIES IS REQUIRED PRIOR TO ANY GRADING S LESS THAN 6" OVER THE PUBLIC MAINS (WATER, SEWER AND STORM). IF THERE IS A CONFLICT, THE APPLICANT IS REQUIRED TO SUBMIT A FOR APPROVAL PRIOR TO ANY GRADING ACTIVITIES OVER THE PUBLIC
0	15. REMEMBE	R: EROSION CONTROL IS YOUR FIRST INSPECTION.
		AINS MUST BE CONNECTED TO THE STORM DRAIN SYSTEM AND THE PUBLIC WORKS DEPARTMENT PRIOR TO ANY BACKFILLING OF PIPE.
	FENCE. TH	NCE: CLEAN AND PROVIDE REGULAR MAINTENANCE OF THE SILT HE FENCE IS TO REMAIN VERTICAL AND IS TO FUNCTION PROPERLY OUT THE TERM OF THE PROJECT.
R	18. WORK IN F	PUBLIC RIGHT OF WAY REQUIRES A RIGHT-OF-WAY USE PERMIT.
		WATER SERVICE PERMIT FOR ACTUAL LOCATION OF NEW WATER ID SERVICE LINE DETERMINED BY MERCER ISLAND WATER ENT.
	REQUIRED CONDITIO REPLACEM PRESSURI	SPECTION OF THE EXISTING SIDE SEWER TO THE CITY SEWER MAIN IS D. IF THE RESULT OF THE TV INSPECTION IS NOT IN SATISFACTORY N, AS DETERMINED BY THE CITY OF MERCER ISLAND INSPECTOR, THE MENT OF THE EXISTING SIDE SEWER IS REQUIRED. ALTERNATELY, A E TEST OF THE SIDE SEWER, FROM SEWER MAIN TO POINT OF ION, MAY BE SUBSTITUTED FOR THE VIDEO INSPECTION.
		STALLED SIDE SEWER REQUIRES A 4 P.S.I. AIR TEST OR PROVIDE 10' OF ATIC HEAD TEST.
	ACTIVITIE: SYSTEMS)	NG THE PUBLIC UTILITIES IS REQUIRED PRIOR TO ANY GRADING S LESS THAN 6" OVER THE PUBLIC MAINS (WATER, SEWER AND STORM). IF THERE IS A CONFLICT, THE APPLICANT IS REQUIRED TO SUBMIT A FOR APPROVAL PRIOR TO ANY GRADING ACTIVITIES OVER THE PUBLIC
		S AND EXTENDS OF THE PAVEMENT IN THE PUBLIC RIGHT OF WAY DETERMINED BY THE CITY ENGINEER PRIOR TO FINALIZE THE

TESC & CITY NOTES TESC DETAILS

DRAWING NO: C1.2

DHALIWAL/KLAR RESIDENCE 7024 SE 20th STREET, MERCER ISLAND, WA 98040

APN 735570-0172

LEGAL DESCRIPTION

THE WEST 70 FEET OF TRACT 20, ROANOKE, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 18 OF PLATS, PAGE 59, RECORDS OF KING COUNTY, WASHINGTON:

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

ORGANIC SOIL REQUIREMENT



SOIL AMENDMENT REQUIRED

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

ESTIMATED TOPSOIL IMPORT = 16.3 CY

SOIL INSPECTION REQUIRED BY ENGINEER

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

TREE TABLE

RETAIN OR REMOVE TREE # | TREE TYPE DBH CONDITION DRIPLINE RETAIN RETAIN GOOD GOOD WESTERN RED CEDAR 30.6" 15 1 2. LEYLAND CYPRESS 8" 14 34" 44" 19 WESTERN RED CEDAR GOOD RETAIN WESTERN RED CEDAR 27 FAIR REMOVE 4 NORWAY SPRUCE 41" 21.2 POOR REMOVE 5 6. WESTERN RED CEDAR 18" 15 POOR RETAIN

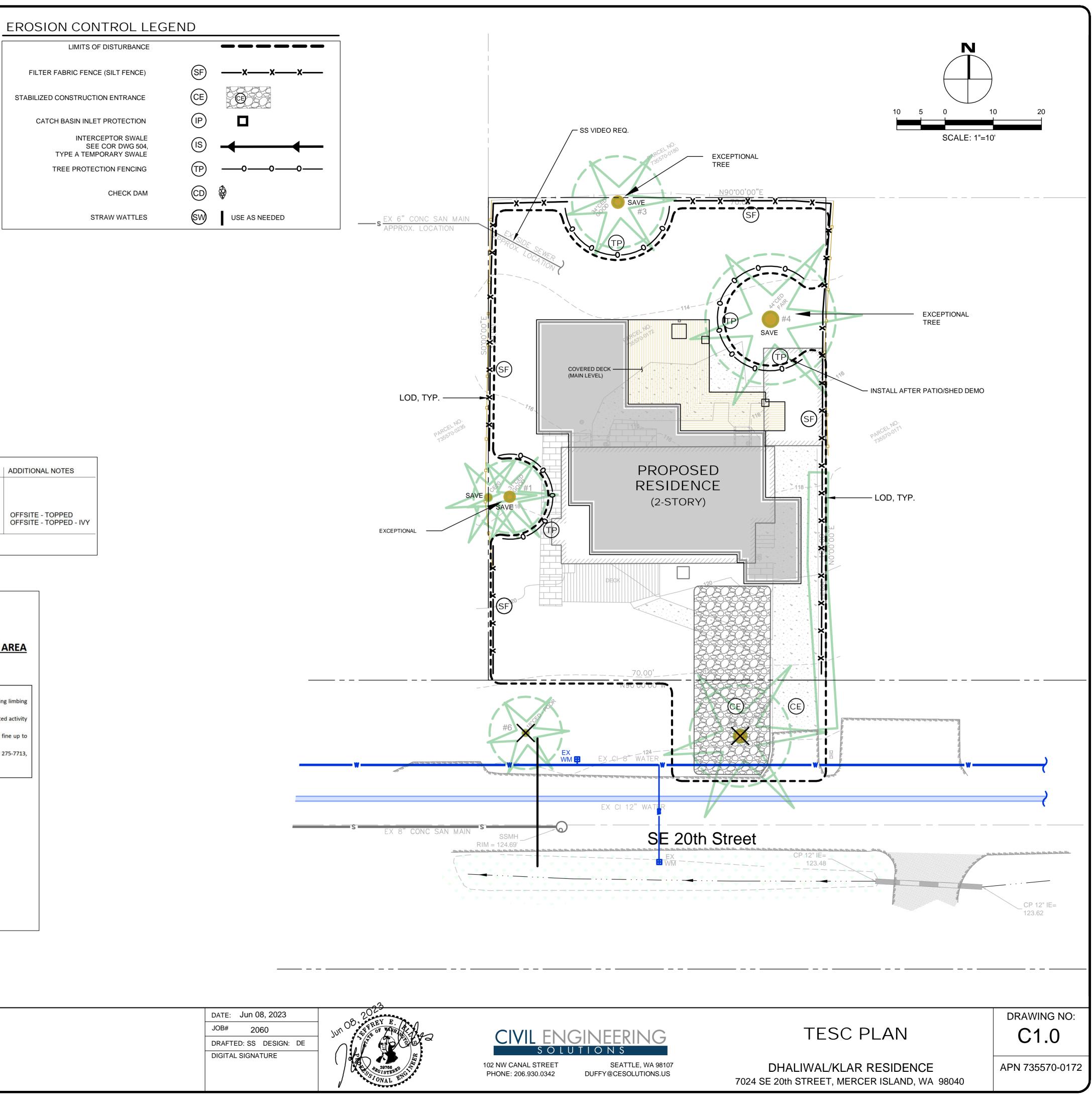
12 replacement trees locations and species TBD

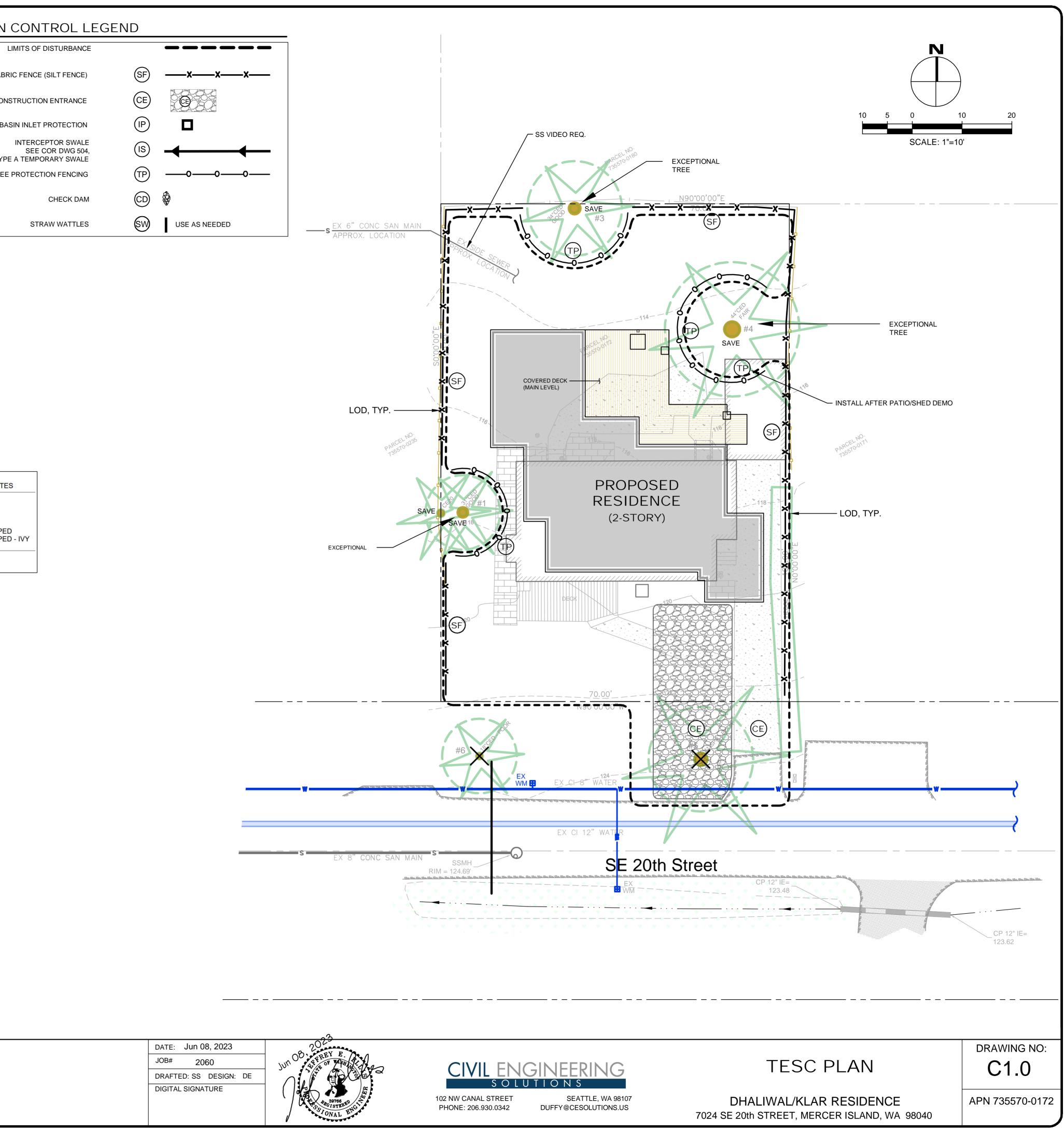
ARBORIST: NEAL BAKER

TREE PROTECTION DETAIL

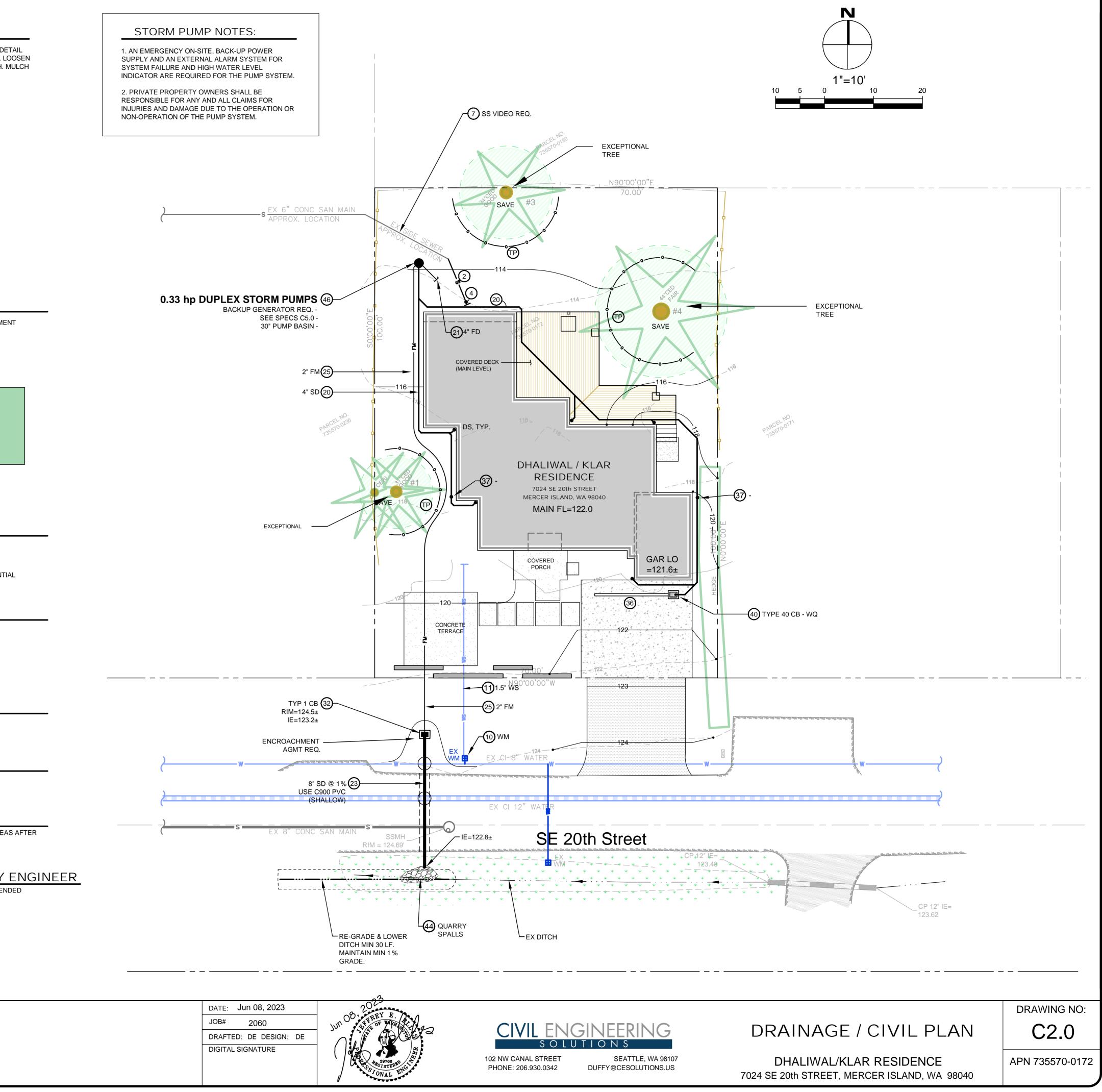
TREE PROTECTION AREA (TPZ) KEEP OUT! DO NOT REMOVE OR ADJUST THE APPROVED LOCATION OF THIS TREE PROTECTION AREA Trees enclosed by this fence are protected and are subject to the conditions of the tree permit. Violation of tree conditions may lead to: 1. Correction Notices or Stop Work Orders until compliance is achieved 2. RE Inspection Fees/financial penalties Notes 3. Arborist reports recommending mitigation 1. No pruning shall be performed unless under the direction of the Project Arborist. Including limbing trees up. Crown drip line or other limit of Tree Protection area. See Site/Utility Plan for fence alignment. No grading, excavation, storage (materials, equipment, vehicles, etc.), or other unpermitted activity shall occur inside the protective fencing. Penalties for damaging by root damage/compaction or removing a saved tree may be a fine up to three times the value of the tree plus restoration (MICC 19.10.160). 4. Any work in approved TPZ must be with the permission of the City Arborist (206) 275-7713, john.kenney@mercergov.org. 5" course woodchips within the tree protection zone, but not against the tree trunk. Tree protection fence: 4-6" chain link fence, solidly anchored into the ground, or if authorized High-density polyethylene fencing with 3.5" x 1.5" openings; color orange. Steel posts installed at 8' o.c. 2" x 6" steel posts or approved equal KEEP OUT Maintain existing grade with the tree protection fence AREA unless otherwise indication on the plans Any Work in the protected area must be with the permission of the City Arborist john.kenney@mercergov.org

NO.	DATE	BY	REVISIONS	
				APPLICANT SUKHMINDER DHALIWAL & MANDEEP KLAR 7024 SE 20th STREET MERCER ISLAND, WA 98040



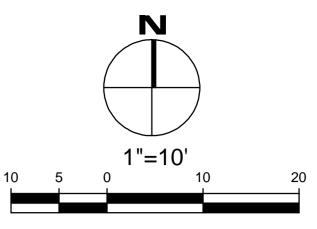


 9 · SOR 35 PVC SANITARY SEWER(SS) & MIN 1.0 %. 9 · SOR 35 PVC SANITARY SEWER(SS) & MIN 1.0 %. 9 · SEWER CLEANOUT PER MERCER ISLAND DETAIL S-19. 1 · COATE AND VIDEO CONDITION OF EXISTING SANITARY SIDE SEWER, REPLACE LINE IF FOUND DEFECTIVE AS DETERMINED BY SEWER, REPLACE LINE IF FOUND DEFECTIVE AS DETERMINED BY SEWER, REPLACE LINE IF FOUND DEFECTIVE AS DETERMINED BY SEWER, REPLACE LINE IF FOUND DEFECTIVE AS DETERMINED BY SEWER, REPLACE LINE IF FOUND DEFECTIVE AS DETERMINED BY SEWER, REPLACE LINE IF FOUND DEFECTIVE AS DETERMINED BY SEWER, REPLACE LINE IF FOUND DEFECTIVE AS DETERMINED BY SEWER, REPLACE LINE IF FOUND DEFECTIVE AS DETERMINED BY SEWER, REPLACE LINE IF FOUND DEFECTIVE AS DETERMINED BY SEWER, REPLACE DEPTH-38°. COORDINATE HOUSE ENTRY OF THIS ULLDER/OWNER. 1 · SUSCEND DRAIN DEFONDER (STAD BY SERVICE) IS REQUIRED PERSISTING. ENTRY OF THIS ULLDER/OWNER. 9 · STORM DRAIN (3034 PVC) @ MIN 2 % GRADE 9 · STORM DRAIN (SDR 35 PVC OR EQUAL). SEE PROFILE FOR GRADE 9 · STORM DRAIN (SDR 35 PVC OR EQUAL). SEE PROFILE FOR GRADE 9 · STORM DRAIN (SDR 35 PVC OR EQUAL). SEE PROFILE FOR OPTIONS INCLUDE SDR 21 PVC OR HDPE SDR 21. 9 · STORM DRAIN SDR 2 · PVC OR HDPE SDR 21. 9 · STORM DRAIN SDR 2 · PVC OR HDPE SDR 21. 9 · STORM DRAIN SDR 2 · PVC OR HDPE SDR 21. 9 · STORM DRAIN SDR 2 · PVC OR HDPE SDR 21. 9 · STORM DRAIN SOLID LID 9 · PVE 1 CB WITH SOLID CH AND RE EQUAL WITH SOLID LID<!--</th--><th> COMPOST AMENDED SOIL TO ALL DISTURBED AREAS (SEE DE SHEET C3.5). TILL 2-3° OF COMPOST INTO UPPER 8° OF SOIL L COMPACTED SUBSOIL, IT NEEDED BY RIPPING TO 12° DEPTH. IL LANDSCAPE BEDS AFTER PLANTING. C C</th>	 COMPOST AMENDED SOIL TO ALL DISTURBED AREAS (SEE DE SHEET C3.5). TILL 2-3° OF COMPOST INTO UPPER 8° OF SOIL L COMPACTED SUBSOIL, IT NEEDED BY RIPPING TO 12° DEPTH. IL LANDSCAPE BEDS AFTER PLANTING. C C
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 4* STORM DRAIN (3034 PVC) @ MIN 2 % GRADE 4* FOUNDATION DRAIN (3034 PVC) @ MIN 1 % GRADE 8* STORM DRAIN. (SDR 35 PVC OR EQUAL). SEE PROFILE FOR GRADE 5* STORM DRAIN FORCE MAIN @ MIN. 30" DEPTH. SUITABLE PIPE OPTIONS INCLUDE SDR-21 PVC OR HDPE SDR-11. 5* STORM DRAIN FORCE MAIN @ MIN. 30" DEPTH. SUITABLE PIPE OPTIONS INCLUDE SDR-21 PVC OR HDPE SDR-11. 6* STORM DRAIN STRUCTURES 6* WIDE NDS DURASLOPE CHANNEL DRAIN OR EQUAL. CLASS B VEHICLE RATED GRATE. 	
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 28 - 29 - STORM DRAIN STRUCTURES 30 - 30 - 31 - 32 - TYPE 1 CB WITH SOLID LID 33 - 33 - 34 - 35 - 10^e OR 24^e YARD DRAIN (OR EQUAL) WITH SOLID LID 36 - WIDE NDS DURASLOPE CHANNEL DRAIN OR EQUAL. CLASS B VEHICLE RATED GRATE. 	SOILS NO REPORT FOR THIS PROJECT, TO ENGINEER'S KNOWLEDGE
 STORM DRAIN STRUCTURES 30 - 31 - 32 - TYPE 1 CB WITH SOLID LID 33 - 34 - 35 - 10^{or} OR 24^{or} YARD DRAIN (OR EQUAL) WITH SOLID LID 36 - 0° WIDE NDS DURASLOPE CHANNEL DRAIN OR EQUAL. CLASS B VEHICLE RATED GRATE. 	NO REPORT FOR THIS PROJECT, TO ENGINEER'S KNOWLEDGE
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STORM DRAIN STRUCTURES Image: Store of the s	NO REPORT FOR THIS PROJECT, TO ENGINEER'S KNOWLEDGE
 30 - 31 - 32 -TYPE 1 CB WITH SOLID LID 33 - 33 - 34 - 35 - 18" OR 24" YARD DRAIN (OR EQUAL) WITH SOLID LID 36" of WIDE NDS DURASLOPE CHANNEL DRAIN OR EQUAL. CLASS B VEHICLE RATED GRATE. 	NO REPORT FOR THIS PROJECT, TO ENGINEER'S KNOWLEDGE
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 32 -TYPE 1 CB WITH SOLID LID 33 - 34 - 35 -18" OR 24" YARD DRAIN (OR EQUAL) WITH SOLID LID 36 -6" WIDE NDS DURASLOPE CHANNEL DRAIN OR EQUAL. CLASS B VEHICLE RATED GRATE. 	
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 34 - 35 -18" OR 24" YARD DRAIN (OR EQUAL) WITH SOLID LID 36 -6" WIDE NDS DURASLOPE CHANNEL DRAIN OR EQUAL. CLASS B VEHICLE RATED GRATE. 	
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 -18" OR 24" YARD DRAIN (OR EQUAL) WITH SOLID LID -6" WIDE NDS DURASLOPE CHANNEL DRAIN OR EQUAL. CLASS B VEHICLE RATED GRATE. 	TOPOGRAPHIC SURVEY BY: SITE SURVEYING, INC.
 -6" WIDE NDS DURASLOPE CHANNEL DRAIN OR EQUAL. CLASS B VEHICLE RATED GRATE. 	2123 NE 11th STREET SAMMAMISH, WA 98074
-	PHONE 425-298-4412
-	
39 -	VERTICAL DATUM
40 -TYPE 40 CATCH BASIN.	NAVD 88 PER WGS SURVEY DATA POINT #MI 1004 SEE SURVEY
41) -	LEGAL DESCRIPTION
43 -	SEE CI.U
44 -HAND-PLACE QUARRY SPALLS	SOIL AMENDMENT REQUIRED
46 -DUPLEX STORM PUMPS INSIDE 30" DIAMETER RIBBED PVC BASIN.	COMPOST AMENDED SOIL REQUIRED ON ALL LANDSCAPED ARE
SEE C5.0 FOR ALL PUMP DETAILS AND ASSOCIATED CALCULATIONS. CONTACT KEVIN AT FOWLER (OR PUMP SUPPLILER) FOR FULL PUMP PACKAGE.	CONSTRUCTION. SEE DETAIL ON C3.5.
ACKAGE.	SOIL INSPECTION REQUIRED BY
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(48) -	SOILS IS REQUIRED BY A LICENSED CIVIL ENGINEER. THIS IS REQUIRED BEFORE FINAL SIGN-OFF BY CITY.
IO. DATE BY REVISIONS	
	APPLICANT
	APPLICANT SUKHMINDER DHALIWAL & MANDEEP KLAR 7024 SE 20th STREET MERCER ISLAND, WA 98040



JOD#	2060					
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DIGITAL SI	GNA	TURE				





RHOMBUS 122 PANEL

MODEL 122 Control Panel



The Model 122 control panel is designed to alternately control two 120, 208, or 240 VAC single phase pumps in water and sewage installations. The controller is provided with a pump selector switch that can be set to alternate the pumps to equalize wear or to call either pump to activate first with the other pump to activate in lag condition. If an alarm occurs, the alarm activates the audible-visual system. The alarm conditions include: high water, float out-of-sequence, pump fail-to-run, seal failure (optional). Common applications include: lift stations, pump chambers, and irrigation systems.

PANEL COMPONENTS

- 1. Enclosure measures 12x10x6 inches (30.48x24.4x15.24). Choice of NEMA 1 (steel for indoor use) or NEMA 4X (ultraviolet stabilized thermoplastic, padlockable with integral mounting flanges, drip shield, (2) heavy duty cover latches, and stainless steel ¼ turn set screw; for outdoor or indoor use). Note: added options may change enclosure size and enclosure features.
- 2. Magnetic Motor Contactors control pumps by switching electrical lines.
- 3. Circuit Breakers (optional) provide pump disconnect and branch circuit protection
- 4. Ground Lugs

5. Duplex Controller provides pump control, alternation and alarm; elevated in the enclosure for easy access and field wiring

- a. HOA switches for manual control Hand/Off/Automatic
- b. Control Power ON/OFF switch
- c. Power ON green LED indicator d. Float status red LED indicators
- e. Float push-to-test buttons
- f. Pump selector switch: Alt, 1-lead 2-lag, 2-lead 1 lag
- g. Auxiliary alarm contacts Form-C h. Terminal block: incoming power
- i. Terminal block: float switches
- j. Option: adjustable seal failure circuits and red LED indicators (must select option 5E when ordering) NOTE: Schematic Diagram is located inside the panel on enclosure cover.

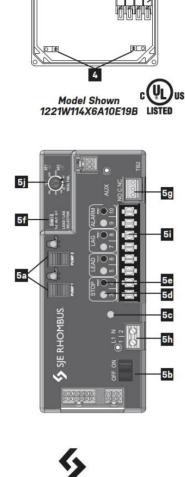
STANDARD ALARM PACKAGE

- 6. Red Alarm Beacon provides 360° visual check of alarm condition.
- 7. Alarm Horn provides audible alarm warning (83 to 85 decibel rating). 8. Exterior Alarm Test/Normal/Silence Switch allows horn and light to be tested and horn to be silenced in an alarm condition. Alarm automatically
- resets once alarm condition is cleared unless the controller is programmed to manual alarm reset. NOTE: other options available.

FEATURES

- Touch safe circuit board housing and low voltage 12 VDC float circuits
- Alarm (field programmable to flash)
- Alarm automatic reset (field programmable to manual alarm reset)
- Float out-of-sequence detection
- Pump fail-to-run detection (field programmable to deactivate) Controller protected by four auto resettable fuses, no fuse replacement
- Three second lag pump delay time, prevents simultaneous pump start-up
- Standard package includes three 20' control switches or EZconnex[®] float
- Five-year limited warranty.

California Prop 65 requires the following: 🛝 WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov SEE REVERSE SIDE FOR ORDERING INFORMATION. SEE PRICE BOOK FOR LIST PRICE.

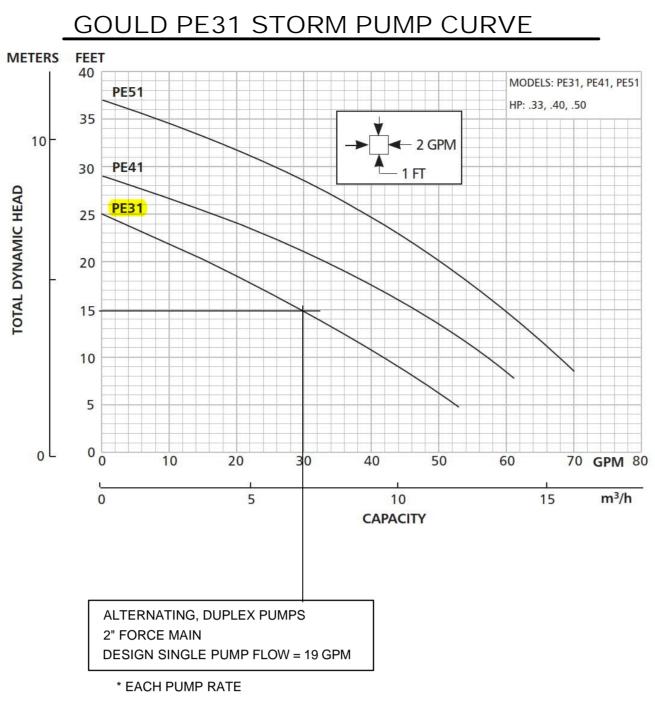


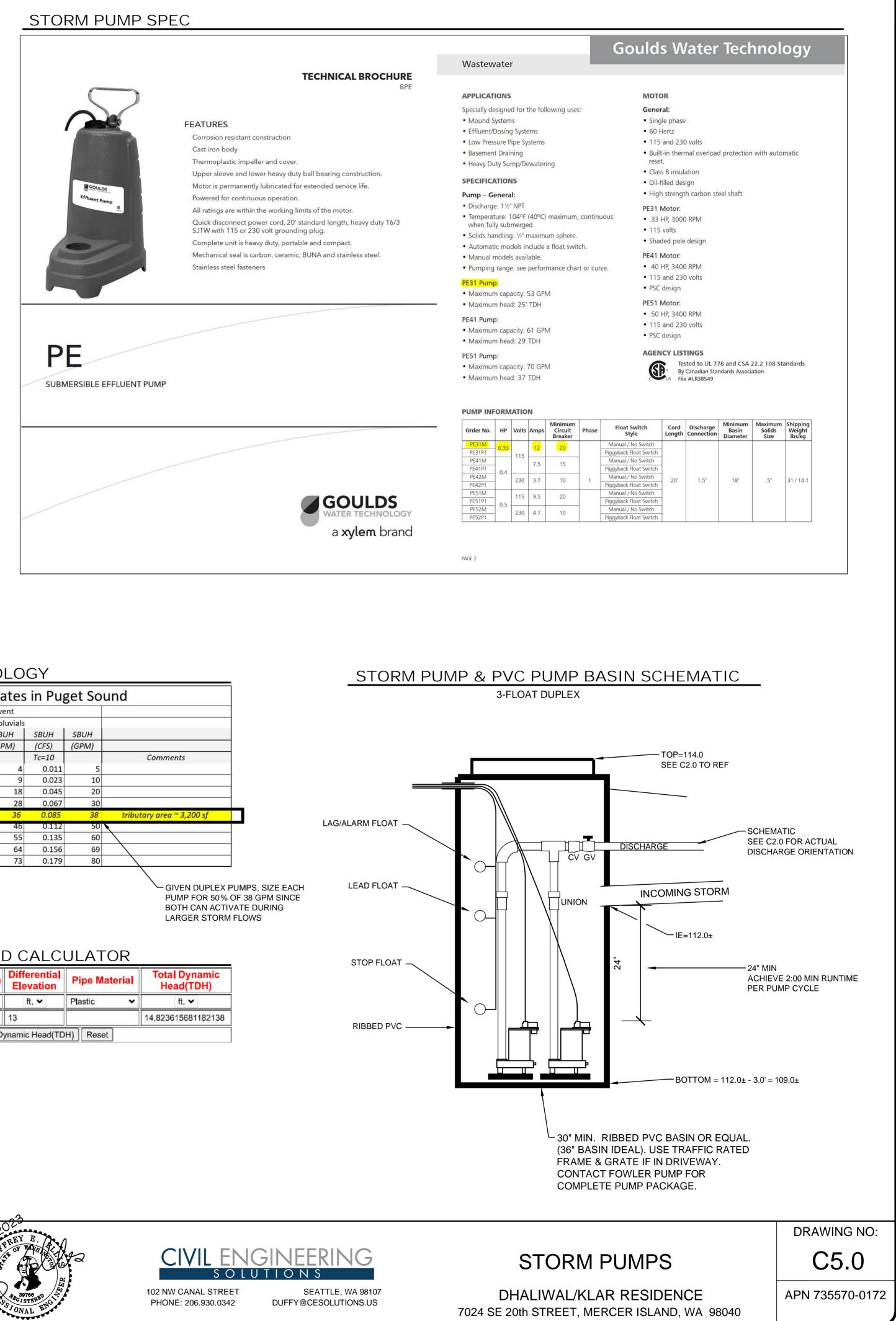
SJE RHOMBUS. 1-888-DIAL-SJE • 1-218-847-1317 1-218-847-4617 Fax email: customer.service@sjeinc.com www.sjerhombus.com B.39

PUMPING DEPTH CALCULATOR

Storm Pump-Float Depth / Pump Interval Calculator						
	Value	Units	Comments			
Input Pump Basin Diameter (feet)=	2.5	feet				
Calculate pump basin radius=	1.3	feet				
Calculate cross section Area of basin=	4.91	sf				
Input a pump depth to achieve 2 min run time=	2.0	feet				
Calculate volume of water per pump cycle=	9.8	cf				
Convert volume to gallons	73.4	gallons	convert to gallons pur			
Input pump rate based on pump curve and TDH	30	gpm				
Calculate time for pump to operate per cycle	2.4	Minutes	Ensure greater than 2			

NO.	DATE	BY	REVISIONS	
				<u>APPLICANT</u> SUKHMINDER DHALIWAL & MANDEEP KLAR 7024 SE 20th STREET MERCER ISLAND, WA 98040





	Pea	k Flow	Rates	in Pu	get So	und	
100 year, 24 hour storm event							
I=4.0 inches/24 hours per isopluvials							
		SBUH	SBUH	SBUH	SBUH		
		(CFS)	(GPM)	(CFS)	(GPM)		
Impervious Area	Acres	Tc=6.3		Tc=10		Comments	
500	0.011	0.01	4	0.011	5		
1,000	0.023	0.02	9	0.023	10		
2,000	0.046	0.041	18	0.045	20		
3,000	0.069	0.062	28	0.067	30		
4,000	0.092	0.082	36	0.085	38	tributary area ~ 3,200 sf	
5,000	0.115	0.103	46	0.112	50	X	
6,000	0.138	0.124	55	0.135	60	\mathbf{X}	
7,000	0.161	0.143	64	0.156	69		
8,000	0.184	0.164	73	0.179	80		

Pump Flow Rate	Pipe Diameter(ID)	Pipe Length	Differential Elevation	Pipe Material	Total Dynamic Head(TDH)
US GPM 🗸	in. 🗸	ft. 🗸	ft. 🗸	Plastic 🗸	ft. 🛩
30	2	100	13		14.823615681182138
	[Compute Total D	ynamic Head(TD	H) Reset	

