GENERAL NOTES:

THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT/DESIGNER AND MAY BE REPRODUCED ONLY WITH THE WRITTEN PERMISSION OF THE ARCHITECT/DESIGNER. AUTHORIZED REPRODUCTIONS MUST BEAR THE NAME OF THE ARCHITECT/DESIGNER. COPYRIGHT 2015 BY DME CONSTRUCTION. THESE DRAWINGS ARE FULLY PROTECTED BY FEDERAL AND STATE COPYRIGHT LAWS. ANY INFRINGEMENT WILL BE VIGOROUSLY PROSECUTED.

THIS PROJECT SHALL COMPLY WITH THE FOLLOWING CODES:

* 2018 INTERNATIONAL RESIDENTIAL CODE * 2018 WASHINGTON STATE ENERGY CODE

* 2018 INTERNATIONAL MECHANICAL CODE * 2018 INTERNATIONAL PLUMBING CODE

* 2018 INTERNATIONAL FIRE CODE

CONTRACTORS RESPONSIBILITY: CONTRACTOR TO VERIFY ALL DIMENSIONS AND STRUCTURAL MEMBER SIZES PRIOR TO CONSTRUCTION.

CONTRACTOR TO INFORM ARCHITECT/DESIGNER OF ANY DISCREPANCIES IN THE DRAWINGS OR FROM THE CODES.

CONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT/DESIGNER AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON THE DRAWINGS ONLY WILL NOT SATISFY THE REQUIREMENT.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED, ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNICAL, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THIS WORK.

ALL STRUCTURAL SYSTEMS SUCH AS WOOD TRUSSES WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH THE INSTRUCTIONS PREPARED BY THE SUPPLIER. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE ARCHITECT/DESIGNER IF UNUSUAL, UNFORESEEABLE, OR UNEXPECTED SUBSURFACE CONDITIONS ARE

DRAWINGS:

ENCOUNTERED.

GENERAL CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH WORK. DO NOT SCALE DRAWINGS.

NOTIFY ARCHITECT CONCERNING QUESTIONS, CHANGES, CONFLICTS OR OMISSIONS. IN THE EVENT OF CONFLICTS OR CHANGES BETWEEN DETAILS OR BETWEEN THE PLANS AND SPECIFICATIONS, NOTIFY ARCHITECT IMMEDIATELY. OBTAIN CLARIFICATION BEFORE PROCEEDING.

FACE OF FRAMING IS TO BE FLUSH WITH FACE OF CONCRETE, UNLESS OTHERWISE INDICATED.

THE TYPICAL EXTERIOR DIMENSIONS ARE TO FACE OF CONCRETE AND/OR FACE OF FRAMING. INTERIOR DIMENSIONS ARE TO FACE OF FRAMING, UNLESS OTHERWISE INDICATED.

DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE SIMILAR IN CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER. REFER TO ARCHITECTURAL DRAWINGS FOR OPENINGS, ARCHITECTURAL REQUIREMENTS AND DIMENSIONS.

INFORMATION CONTAINED WITHIN THESE DRAWINGS WITH REGARD TO EXISTING CONDITIONS IS PROVIDED FOR THE CONVENIENCE OF THE GENERAL CONTRACTOR. ALL ATTEMPTS HAVE BEEN MADE TO ACCURATELY REPRESENT THE EXISTING BUILDING AND SURROUNDINGS VIA OWNER SUPPLIED AS-BUILTS AND FIELD VERIFICATION. THE GENERAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK TO AVOID UNREASONABLE DELAYS TO THE SCHEDULE

ALL DRAWINGS OF EXISTING CONDITIONS ARE FOR REFERENCE ONLY, ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED.

SITE

HYDRANT 96A3-28 IS THE CLOSEST HYDRANT ON THE SAME SIDE OF THE STREET AS THE RESIDENCE AND HAS A FLOW RATE OF 1,759 GPM @ 96 PSI. HYDRANT 94A2-26 LOCATED 275 FT. FROM RESIDENCE HAS A FLOW RATE OF 5,000 GPM @ 94 PSI. 1,500 GPM IS THE REQUIRED MIN. THE FLOW RATES EXCEED MIN. BY OVER 117% AND 330%.

SEE ATTACHED TREE REPORT FROM SUPERIOR NW ENTERPRISES DATED MAY 16, 2006.

S O I L S:

CONTRACTOR TO VERIFY ALL DIMENSIONS AND STRUCTURAL MEMBER SIZES PRIOR TO CONSTRUCTION.

CONTRACTOR TO INFORM ARCHITECT/DESIGNER OF ANY DISCREPANCIES IN THE DRAWINGS OR FROM THE CODES.

CONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT/DESIGNER AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON THE DRAWINGS ONLY WILL NOT SATISFY THE REQUIREMENT.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED, ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNICAL, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THIS WORK.

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

THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE ARCHITECT/DESIGNER IF UNUSUAL, UNFORESEEABLE, OR UNEXPECTED SUBSURFACE CONDITIONS ARE ENCOUNTERED.

MATERIALS/ASSEMBLIES: CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL WORK AND MATERIALS IN ACCORDANCE WITH ALL APPLICABLE COUNTY, LOCAL BUILDING AND FIRE CODES AS REQUIRED

ALL WOOD AND SONITUBE FORMS USED FOR CONCRETE IN THE GROUND OR BETWEEN FOUNDATION SILLS & THE GROUND SHALL BE REMOVED.

ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED WOOD OR ANY SPECIES OR FOUNDATION GRADE CEDAR OR REDWOOD, ALL MARKED BY AN APPROVED TESTING AGENCY.

PROVIDE 90# FELT BETWEEN POSTS & CONCRETE.

AS REQUIRED FOR SECURE AND PROPER INSTALLATION.

PROVIDE DRAFT STOPS, FIRE BLOCKING, AND FIRESTOPS AS REQUIRED BY CODE.

FLASHING AND COUNTER FLASHING TO BE MIN. 24 GAUGE OF CORROSION- RESISTANT METAL, AND SHALL BE INSTALLED IN COMPLIANCE WITH LOCAL BUILDING CODES AND MANUFACTURES RECOMMENDATIONS.

GENERAL CONTRACTOR SHALL PROVIDE BLOCKING FOR ALL WALL-MOUNTED HARDWARE, TOILET ACCESSORIES, TOWEL BARS, LIGHT FIXTURES, BUILT-INS, ETC...,

ALL INTERIOR WALLS & CEILINGS SHALL HAVE 5/8" TYPE 'C' GYP. BD. (FIRECODE C CORE).

PROVIDE AN APPLICATION OF IOHN MANVILLE IGNITION BARRIER COATING AS AN IGNITION BARRIER OVER OPEN AND CLOSED-CELL SPRAY FOAM INSULATION IN MAIN FLOOR CEILING AND FLOOR OVER OCCUPIED SPACE.

PROVIDE A UL RATED "CLASS A" FIRE RESISTANT ROOFING MEMBRANE WHERE APPLICABLE.

ALL EXTERIOR DECKS TO BE CONSTRUCTED WITH PRESSURE TREATED WOOD.

VAPOR BARRIER BELOW SLABS ON GRADE TO BE 6 MIL POLYETHYLENE, PER SPECIFICATIONS.

ALL COUNTERS TO BE 36" A.F.F. UNLESS OTHERWISE NOTED.

PROVIDE 1 HR. FIRE RATED ASSEMBLY BETWEEN GARAGE AND LIVING SPACE.

MINIMUM STAIRWAY REQUIREMENTS ARE AS FOLLOWS: 36" MIN. WIDTH, 6-8" MIN. HEADROOM, 8" MAX. RISE AND 9" MIN. RUN FOR (4) OR MORE RISERS. PROVIDE A HANDRAIL 34"-38" A.F.F. HAND GRIP PORTION TO BE CONTINUOUS AND 1 1/4"-2" IN CROSS SECTION WITH BOTH ENDS RETURNED. THERE SHALL BE A SPACE OF NOT LESS THAN I 1/2" BETWEEN THE WALL AND THE HANDRAIL. GUARD RAILS SHALL BE IN ACCORDANCE WITH 2018 IRC, SECTION R312.

BATHTUB, SHOWER FLOORS AND WALLS ABOVE BATHTUBS WITH INSTALLED SHOWER HEADS AND SHOWER ENCLOSURES SHALL BE FINISHED WITH A NONABSORBENT SURFACE A MINIMUM OF 6' ABOVE THE FLOOR PER 2018 IRC, R307.2.

WALLS:

INSULATED WITH R-21 BATT (FOR 2x6 WALLS) AND R-13 BATT (FOR 2x4 WALLS), UNLESS NOTED OTHERWISE.

FLOORS: PROVIDE R-30 BATT INSULATION OVER UNHEATED SPACE, UNLESS NOTED OTHERWISE.

R O O F S A N D C E I L I N G S :

INSULATED WITH R-49 BATT, UNLESS NOTED OTHERWISE. PROVIDE INSULATION IN CEILING WHERE POSSIBLE AND IN RAFTERS IF VAULTED CEILING USE R-38 BATT, SKYLIGHT GLAZING MATERIAL TO MEET ALL REQUIREMENTS PER 2018 IRC, R308.6.2 IF CONDITION EXISTS, MAINTAIN A MIN. OF 1" CLEAR BETWEEN TOP OF INSULATION AND BOTTOM OF SHEATHING FOR VENTING. VENTING MUST OCCUR IN EACH JOIST SPACE. WHERE CONTINUOUS VENTING WITHIN A JOIST SPACE IS INTERUPTED BY A HEADER (I.E. SKYLIGHT OR AT HIP END), PROVIDE (2) H/2" VENTING HOLES AT THE TOP OF THE RAFTER AT THE HEADER TO ALLOW FOR CONTINUAL THROUGH VENTING INTO THE ADJACENT JOIST SPACE.

SLABON GRADE: PROVE EXTRUDED RIGID CLOSE CELL INSULATION R-10. INSULATION TO PROVIDE THERMAL BREAK BETWEEN SLAB AND FOOTING AND RUN FROM TOP OF SLAB TO THE BOTTOM OF FOOTING. INSULATION MAY BE INTERRUPTED FOR 6" EVERY 2'-0" TO ALLOW FOR DOWELING TO TIE SLAB AND FOOTING TOGETHER.

VAPOR BARRIER:

AN APPROVED 10 MIL. VAPOR BARRIER SHALL BE INSTALLED AT EXTERIOR WALLS AND AT ROOF DECKS, BELOW ENCLOSED JOIST SPACES WHERE CEILING FINISHES ARE DIRECTLY INSTALLED TO JOIST, AND ANY OTHER WALL OR CEILING SURFACES WHICH RECEIVE INSULATION. THIS VAPOR BARRIER MAY BE A COMPONENT OF THE INSULATION MATERIAL, APPLICATION AND INSTALATIONS OF THE INSULATION AND VAPOR BARRIERS SHALL COMPLY WITH STAT OF WASHINGTION THERMAL INSULATION STANDARDS (HB %)

ENERGY:

MARKED BY AN APPROVED TESTING AGENCY. PROVIDE 90# FELT BETWEEN POSTS & CONCRETE.

PROVIDE DRAFT STOPS, FIRE BLOCKING, AND FIRESTOPS AS REQUIRED BY CODE.

FLASHING AND COUNTER FLASHING TO BE MIN. 24 GAUGE OF CORROSION- RESISTANT METAL, AND SHALL BE INSTALLED IN COMPLIANCE WITH LOCAL BUILDING CODES AND MANUFACTURES RECOMMENDATIONS.

GENERAL CONTRACTOR SHALL PROVIDE BLOCKING FOR ALL WALL-MOUNTED HARDWARE, TOILET ACCESSORIES, TOWEL BARS, LIGHT FIXTURES, BUILT-INS, ETC... AS REOUIRED FOR SECURE AND PROPER INSTALLATION.

ALL INTERIOR WALLS & CEILINGS SHALL HAVE 1/2" GYP. BD.

APPLICATION INSTALLATIONS OF INSULATION AND VAPOR BARRIERS SHALL COMPLY WITH STATE OF WASHINGTON THERMAL INSULATION STANDARDS (HB 98).

PROVIDE A UL RATED "CLASS A" FIRE RESISTANT ROOFING MEMBRANE WHERE APPLICABLE.

THE FLOOR INSULATION PER 2018 IRC, R402.2.7.

PROVIDE AN EAVE BAFFLE FOR AIR PERMEABLE INSULATION IN THE VENTED ATTIC MAINTAINING AN OPENING EQUAL OR GREATER THAN THE SIZE OF THE VENT EXTENDING OVER THE TOP OF THE INSULATION PER 2018 IRC, R402.2.3.

MOTION SENSOR PER 2018 IRC.

SECTION R406 ADDITIONAL ENERGY EFFICIENCY REOUIREMENTS R406.1 SCOPE. THIS SECTION ESTABLISHES OPTIONS FOR ADDITIONAL CRITERIA TO BE MET FOR ONE- AND TWO-FAMILY DWELLINGS AND TOWNHOUSES, AS DEFINED IN SECTION 101.2 OF THE INTERNATIONAL RESIDENTIAL CODE TO DEMONSTRATE COMPLIANCE WITH THIS CODE. R406.2 ADDITIONAL ENERGY EFFICIENCY REQUIREMENTS (MANDATORY). EACH DWELLING UNIT IN ONE- AND TWO-FAMILY DWELLINGS AND TOWNHOUSES, AS DEFINED IN SECTION 101.2 OF THE INTERNATIONAL RESIDENTIAL CODE SHALL COMPLY WITH SUFFICIENT OPTIONS FROM TABLE R406.2 SO AS TO ACHIEVE THE FOLLOWING MINIMUM NUMBER OF CREDITS: 2018 WASHINGTON STATE ENERGY CODE RE-33

THE DRAWINGS INCLUDED WITH THE BUILDING PERMIT APPLICATION SHALL IDENTIFY WHICH OPTIONS HAVE BEEN SELECTED AND THE POINT VALUE OF EACH OPTION, REGARDLESS OF WHETHER SEPARATE MECHANICAL, PLUMBING, ELECTRICAL, OR OTHER PERMITS ARE UTILIZED FOR THE PROJECT.

 TABLE 406.2 - ENERGY CREDITS (DEBITS) OPTION DESCRIPTION CREDIT(S)

Ia - EFFICIENT BUILDING ENVELOPE Ia: PRESCRIPTIVE COMPLIANCE IS BASED ON TABLE R402.1.1 WITH THE FOLLOWING MODIFICATIONS: FENESTRATION U = 0.28FLOOR R-38

SLAB ON GRADE R-10 PERIMETER AND UNDER ENTIRE SLAB BELOW GRADE SLAB R-10 PERIMETER AND UNDER ENTIRE SLAB COMPLIANCE BASED ON SECTION R402.1.4: REDUCE THE TOTAL UA BY 5%. 0.5

Ib - EFFICIENT BUILDING ENVELOPE Ib: PRESCRIPTIVE COMPLIANCE IS BASED ON TABLE R402.1.1 WITH THE FOLLOWING MODIFICATIONS: FENESTRATION U .= 0.25 WALL R-21 PLUS R-4

FLOOR R-38 BASEMENT WALL R-21 INT PLUS R-5 CI SLAB ON GRADE R-10 PERIMETER AND UNDER ENTIRE SLAB BELOW GRADE SLAB R-10 PERIMETER AND UNDER ENTIRE SLAB

COMPLIANCE BASED ON SECTION R402.1.4: REDUCE THE TOTAL UA BY 15%. 1.0

IC EFFICIENT BUILDING ENVELOPE IC: PRESCRIPTIVE COMPLIANCE IS BASED ON TABLE R402.1.1 WITH THE FOLLOWING MODIFICATIONS: FENESTRATION U. = 0.22 CEILING AND SINGLE-RAFTER OR JOIST-VAULTED R-49 ADVANCED WOOD FRAME WALL R-21 INT PLUS R-12 CI FLOOR R-38

BASEMENT WALL R-21 INT PLUS R-12 CI SLAB ON GRADE R-10 PERIMETER AND UNDER ENTIRE SLAB BELOW GRADE SLAB R-10 PERIMETER AND UNDER ENTIRE SLAB

COMPLIANCE BASED ON SECTION R402.1.4: REDUCE THE TOTAL UA BY 30%. 2.0

2a - AIR LEAKAGE CONTROL AND EFFICIENT VENTILATION 2a: COMPLIANCE BASED ON R402.4.I.2: REDUCE THE TESTED AIR LEAKAGE TO 4.0 AIR CHANGES PER HOUR MAXIMUM

ALL WHOLE HOUSE VENTILATION REQUIREMENTS AS DETERMINED BY SECTION M1507.3 OF THE INTERNATIONAL RESIDENTIAL CODE SHALL BE MET WITH A HIGH EFFICIENCY FAN (MAXIMUM 0.35 WATTS/CEM). NOT INTERLOCKED WITH THE FURNACE FAN. VENTILATION SYSTEMS USING A FURNACE INCLUDING AN ECM MOTOR ARE ALLOWED, PROVIDED THAT THEY ARE CONTROLLED TO OPERATE AT LOW SPEED IN VENTILATION ONLY MODE. TO QUALIFY TO CLAIM THIS CREDIT, THE BUILDING PERMIT DRAWINGS SHALL SPECIFY THE OPTION BEING SELECTED AND SHALL SPECIFY THE MAXIMUM TESTED BUILDING AIR LEAKAGE AND SHALL SHOW THE HEAT RECOVERY VENTILATION SYSTEM.

3a - HIGH EFFICIENCY HVAC EOUIPMENT 3a: GAS, PROPANE OR OIL-FIRED FURNACE WITH MINIMUM AFFUE OF 95% OR GAS, PROPANE OR OIL-FIRED BOILER WITH MINIMUM AFUE OF 92%. TO QUALIFY TO CLAIM THIS CREDIT, THE BUILDING PERMIT DRAWINGS SHALL SPECIFY THE OPTION BEING SELECTED AND SHALL SPECIFY THE HEATING EOUIPMENT TYPE AND THE MINIMUM EOUIPMENT EFFICIENCY.

5b - EFFICIENT WATER HEATING 5b:

PUMP WATER HEATERS

SAVINGS.

W I N D O W S / D O O R S : 3101

TEMPERED SAFETY GLASS.

NOT LESS THAN 78" PER 2018 IRC, R311.2.

PROVIDE MINIMUM 4" CURB HEIGHT FOR SKYLIGHTS PER 2018 IRC, R308.6.8.

GLAZING:

- R308.4. HAZARDOUS LOCATIONS ARE:
- 3.1 THE EXPOSED AREA OF AN INDIVIDUAL PANE IS LARGER THAN 9 S.F.
- 3.3 THE TOP EDGE OF THE GLAZING IS MORE THAN 36" ABOVE THE FLOOR. 3.4 ONE OR MORE WALKING SURFACES ARE WITHIN 36", MEASURED HORIZONTALLY AND IN A STRAIGHT LINE OF THE GLAZING.
- NONSTRUCTURAL INFILL PANELS.
- EDGE OF THE GLAZING IS LESS THAN 60" MEASURED VERTICALLY ABOVE ANY STANDING OR WALKING SURFACE.

ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE IRC 2018 AND THE WASHINGTON STATE ENERGY CODE, LATEST EDITION. VERIFY ALL CONDITIONS BEFORE PROCEEDING WITH WORK..

ALL WOOD AND SONITUBE FORMS USED FOR CONCRETE IN THE GROUND OR BETWEEN FOUNDATION SILLS & THE GROUND SHALL BE REMOVED

ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED WOOD OR ANY SPECIES OR FOUNDATION GRADE CEDAR OR REDWOOD, ALL

FLOOR INSULATION SHALL BE INSTALLED TO MAINTAIN PERMANENT CONTACT WITH THE UNDERSIDE OF THE SUBFLOOR DECKING. INSULATION SUPPORTS SHALL BE INSTALLED SO SPACING IS NO MORE THAN 24" O.C. FOUNDATION VENTS SHALL BE PLACED SO THAT THE TOP OF THE VENT IS BELOW THE LOWER SURFACE OF

PROVIDE AND SPECIFY HIGH-EFFICIENCY FIXTURES FOR ALL OUTDOOR LIGHTING ATTACHED TO THE BUILDING OR PROVIDE PHOTO DAYLIGHT CONTROL AND A

PROVIDE AND SPECIFY THAT 75% OF PERMANENTLY INSTALLED LAMPS IN LIGHTING FIXTURES SHALL BE HIGH-EFFICIENCY LAMPS PER 2018 IRC, R404.1.

FEET OF FENESTRATION AREA. ADDITIONS TO EXISTING BUILDING THAT ARE LESS THAN 750 SQUARE FEET OF HEATED FLOOR AREA. 2. MEDIUM DWELLING UNIT: I.5 POINTS ALL DWELLING UNITS THAT ARE NOT INCLUDED IN #1 OR #3.

WATER HEATING SYSTEM SHALL INCLUDE ONE OF THE FOLLOWING: GAS, PROPANE OR OIL WATER HEATER WITH MINIMUM EF OF 0.82

ELECTRIC HEAT PUMP WATER HEATER WITH A MINIMUM EF OF 2.0 AND MEETING THE STANDARDS OF NEEA'S NORTHERN CLIMATE SPECIFICATIONS FOR HEAT

WATER HEATER HEATED BY GROUND SOURCE HEAT PUMP MEETING THE REQUIREMENTS OF OPTION 3c.

TO QUALIFY TO CLAIM THIS CREDIT, THE BUILDING PERMIT DRAWINGS SHALL SPECIFY THE OPTION BEING SELECTED AND SHALL SPECIFY THE WATER HEATER EQUIPMENT TYPE AND THE MINIMUM EQUIPMENT EFFICIENCY AND, FOR SOLAR WATER HEATING SYSTEMS, THE CALCULATION OF THE MINIMUM ENERGY

IN EACH SLEEPING ROOM AN EGRESS WINDOW OR DOOR SHALL BE PROVIDED THAT HAS 5.7 S.F. OF CLEAR NET OPERABLE AREA. THE SMALLEST CLEAR MIN. DIMENSION SHALL NOT BE LESS THAN 20" IN WIDTH OR 24" IN HEIGHT. WINDOW SILLS IN SLEEPING ROOMS NOT TO EXCEED 44" ABOVE FLOOR PER 2018 IRC, R310 &

ALL GLAZING IN A DOOR OR WITHIN 12" OF DOOR, OR WITHIN 18" OF FLOOR OR WITHIN 60" OF TUB FLOOR, OR ANY OTHER HAZARDOUS AREA PER CODE, TO BE

20 MIN., SELF-CLOSING DOOR W/ WEATHER STRIPPING REQUIRED AT GARAGE ENTRANCE TO LIVING SPACE.

PROVIDE AT LEAST ONE EGRESS DOOR THAT IS SIDE HINGED WITH A MINIMUM CLEAR OPEN WIDTH OF 32" (36" WIDE DOOR) AND MINIMUM CLEAR HEIGHT OF

WINDOW SILLS - WHERE THE OPENING OF AN OPERABLE WINDOW IS LOCATED MORE THAN 72" ABOVE FINISHED GRADE OR SURFACE BELOW, THE SILL SHALL BE A MINIMUM OF 24" ABOVE THE FINISHED FLOOR OF THE ROOM IT IS IN. OPERABLE SECTIONS OF WINDOWS SHALL NOT PERMIT OPENINGS THAT ALLOW PASSAGE OF 4' DIAMETER SPHERE WHERE OPENINGS ARE WITHIN 24" OF THE FLOOR PER 2018 IRC, R312.2.1.

TO BE IN COMPLIANCE WITH IRC 2012, SECTION R308 AND WASHINGTON STATE SAFETY OR TEMPERED GLASS. EXCEPTIONS ARE AS OUTLINED IN IRC 2018, SECTION

GLAZING IN ALL FIXED AND PERABLE PANELS OF SWINGING, SLIDING AND BIFOLD DOORS. GLAZING IN ALL INDIVIDUAL FIXED OR OPERABLE PANEL ADJUACENT TO A DOOR WHERE THE NEAREST VERICAL EDGE IS WITHIN A 24" ARC OF THE DOOR IN

A CLOSED POSITION AND WHOSE BOTTOM EDGE IS LESS THAN 60" ABOVE THE FLOOR OR WALKING SURFACE. 3. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL THAT MEETS ALL OF THE FOLLOWING CONDITIONS:

3.2 THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18" ABOVE THE FLOOR.

4. ALL GLAZING IN RAILINGS REGARDLESS OF AREA OR HEIGHT ABOVE A WALKING SURFACE. INCLUDED ARE STRUCTURAL BALLISTER PANELS AND

5. GLAZING IN ENCLOSEURES FOR OR WALLS FACING HOT TUBS, WHIRLPOOLS, SAUNAS, STEAMROOMS. BATHTUBS AND SHOWERS WHERE THE BOTTOM EXPOSED

VENTILATION:

- PROVIDE PROPER ROOF & CRAWL SPACE VENTILATION PER 2018 IRC. VENT DRYER TO OUTSIDE PER MECHANICAL CODE.

- VENT ALL FANS TO OUTSIDE W/ 3' MIN. SEPARATION TO BUILDING OPENINGS. VENT HOT WATER TANK TO EXPANSION TANK. VENT DISHWASHER AT SINK.
- E X H A U S T M I N I M U M S : PROVIDE SOURCE SPECIFIC INTERMITTENT OPERATION EXHAUST FANS WITH THE FOLLOWING MINIMUM STANDARDS:

80 CFM

BATHROOMS:

LAUNDRY ROOM: 190 CFM KITCHEN HOODS & DOWNDRAFTS: 1200 CFM

- PROVIDE WHOLE HOUSE VENTILATION SYSTEM SO AS TO CONFORM WITH STATE VENTILATION AND INDOOR AIR CODE. - CURRENT EDITION AND SHALL BE CAPABLE WITH THE FOLLOWING MINIMUM STANDARDS: - BE SIZED ACCORDING TO TABLE 3-2 WSEC AT 0.25" W.G. & SOUND RATED AT 1.5 SONES MAX... - BE CONTROLLED BY READILY ACCESSIBLE 24 HR TIMER CAPABLE OF CONTINUOUS
- OPERATION WITH MANUAL & AUTOMATIC CONTROL INSULATED DUCTS SIZED TO MIN. R-4 & TERMINATED OUTSIDE BUILDING.

ALL UNITS WILL BE SEALED COMBUSTION DIRECT VENTS. THEY WILL HAVE TWO PVC VENTS OFF EACH UNIT, ONE EXHAUST AND ONE COMBUSTION.

DRYERS ON BOTH FLOORS WILL GO DOWN THROUGH THE FLOOR IN JOIST BAY AND OUT TO RIM. THEY WILL HAVE ONE ELBOW AND BE 12' LONG.

CRAWL VENTILATION: TOTAL CUBIC FEET DIVIDED BY 15.124 CFM CONTINUOUSLY RUNNING. TWO FANTECH FG-8 IN-LINE FANS, ONE INTAKE AND ONE EXHAUST.

ATTIC:

APPLY ROOFING IN ACCORDANCE WITH IRC 2018, SECTION R905. PROVIDE ATTIC VENTILATION AS INDICATED ON ROOF FRAMING PLANS/ROOF DETAILS.

ATTIC VENTILATION: THE TOTAL NET FREE VENTILATION AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE SPACE VENTILATED EXCEPT THAT REDUCTION OF THE TOTAL AREA TO 1/300 IS PERMITTED PROVIDED THAT AT LEAST 50% AND NOT MORE THAN 80% OF THE REOUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3 FEET ABOVE THE EAVE OR CORNICE VENTS. AS AN ALTERNATE, THE NET FREE CROSS VENTILATION AREA MAY BE REDUCED TO 1/300 WHEN A CLASS I OR II VAPOR BARRIER IS INSTALLED ON THE WARM-IN-WATER SIDE OF THE CEILING (IRC 20012, SECTION R806.2)

ATTIC ACCESS OPENING MUST BE PROVIDED FOR ALL ATTIC AREAS THAT EXCEED 30 S.F. AND HAVE A VERTICAL HEIGHT OF 30' OR GREATER. ROUGH FRAMED OPENING MIN. 22"x30". ACCESS TO BE UNOBSTRUCTED AND READILY ACCESSIBLE. WHEN LOCATED IN A CEILING, MIN. 30' UNOBSTRUCTED HEADROOM AT SOME POINT ABOVE THE ACCESS MEASURED VERTICALLY FROM THE BOTTOM OF CEILING FRAMING MEMBERS (IRC 2018, SECTION R807.1)

PROVIDE 2" MIN. CONTINUOUS SCREEN VENT AT EACH END OF EACH RAFTER/ROOF TRUSS BAY.

MECHANICAL AND ELECTRICAL: ALL WASTE LINES TO BE INSULATED WITH ACOUSTIC INSULATION. CAST IRON PIPING AT KEY LOCATIONS PER PLAN.

ELECTRICAL WIRING SHALL CONFORM TO THE 2018 WASHINGTON STATE ELECTRICAL CODE

INSTALL OUTLETS AND SWITCHES AT HEIGHTS AND LOCATIONS REQUIRED BY 2018 IRC AND THE 2018 WASHINGTON STATE ELECTRICAL CODE. LIGHTING WATTAGE SHALL MEET THE 2018 WASHINGTON STATE ELECTRICAL CODE.

PROVIDE SMOKE DETECTORS TO MEET THE 2018 IRC AND 2018 INTERNATIONAL FIRE CODE, SMOKE DETECTORS SHALL BE HARD WIRED AND EQUIPPED WITH

BATTERY BACK UP. SMOKE DETECTORS SHALL SOUND AN ALARM THAT IS AUDIBLE THROUGH OUT THE BUILDING. SMOKE DETECTORS SHALL BE PLACES AT LEAST ON PER LEVEL, ONE IN EACH SLEEPING ROOM, ONE IN HALLWAY GIVING ACCESS TO THE SLEEPING ROOMS

PROVIDE CARBON MONOXIDE DETECTORS AT ALL LEVEL PER 2018 IRC.

INSTALL A MONITORED NFPA 72 LOW VOLTAGE FIRE ALARM SYSTEM WITH HEAT SENSOR IN THE GARAGE. MONITORING COMPANY TO BE LICENSED AND BONDED. INSTALL AN EXTERIOR SIREN CONNECTED INTO THE ALARM SYSTEM.

VERTICAL DISTANCE BETWEEN COOK TOP OF RANGE AND HOOD SHALL BE NO LESS THAN 30".

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CIVIL ENGINEER: IMI TEAM PHONE: 206-596-2020 905 MAIN ST SUITE #200 SUMNER, WA 98390 SURVEYOR

SITE SURVEYING GEOTECH: GEOTECH CONSULTANTS INC. MARC MCGINNIS 2401 10TH AVE. E SEATTLE, WA 98102 PHONE: 425-260-111

MARCM@GEOTECHNW.COM ARBORIST: N/A

(TBD)

P R O J E C T D E T A I L S :

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L O T C O V E R A G E (S F.) : ALLOWED LOT COVERAGE GROSS LOT AREA **SEE SITE DEVELOPMENT WORKSHEET ON SHEET A-1.2**

BLD. HEIGHT (FT.): MAX BUILDING HEIGHT

PROJ. TEAM

OWNER: JEREME RAQUEPAU ANGELA GRIBBLE

ARCHITECT RICHARD FLAKE

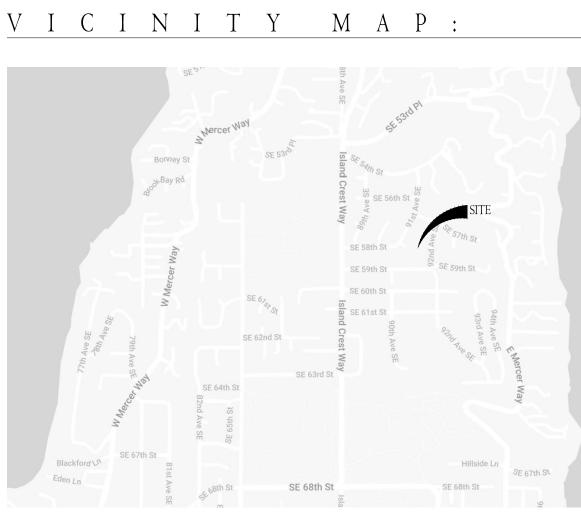
PHONE: 253-359-4039

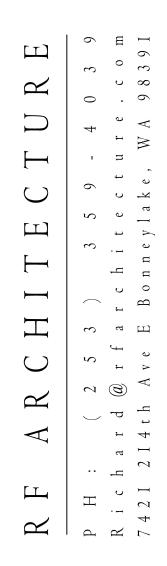
CONTRACTOR:

(TBD) STRUCTURAL: CUSTOM DESIGN & ENGINEERING, INC

EMAIL: KAM@CDENGR.COM 6021 ROOSEVELT WAY NE SEATTLE, WA 98115

MECHANICAL AND ELECTRICAL:

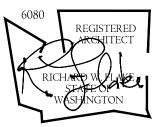




40 % MAX.

12,192 SF

30' (SEE ABE CALCS)



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СНЕСКЕD: RWF REVISIONS:

Nov 16, 2023

Project Information		Contact Info					
RAQUEPAU RESIDENCE		RICHARD FLA RICHARD@RF		CTURE.CO	M		
Heating System Type: O All Other Syste	-	Heat Pump					
To see detailed instructions for each section, place your ca Design Temperature Instructions		Design Tem	perature	e Differend	же (ΔТ)		46
Area of Building	-	$\Delta T = Indoor (7)$	0 degrees)	- Outdoor De	sign Temp)	
Conditioned Floor Area Instructions Conditioned Floor Area (sq ft)		3,075					
Average Ceiling Height Instructions Average Ceiling Height (ft)		9.0		onditioned 27,675	Volume	e	
Glazing and Doors Instructions	-	U-Factor 0.280	×	Area 732	= 2	UA 04.96	
Skylights Instructions		U-Factor 0.50	×	Area	=	UA	
Insulation Attic		U-Factor	x	Area	=	UA	
Instructions Select R-Value	-	No selection		Aicu			
Single Rafter or Joist Vaulted Ceilings Instructions R-38 Vented	•	U-Factor 0.027	×	Area 1,131	3	UA 30.54	
Above Grade Walls (see Figure 1) Instructions	_	U-Factor 0.056	×	Area 3,656	2	UA 04.74	
Floors		U-Factor	×	Area		UA C 28	
R-30 Below Grade Walls (see Figure 1)		0.029 U-Factor	×_	1,944 Area	Ę	56.38 UA	
Instructions Slab Below Grade (see Figure 1)	•	No selection				 UA	
Instructions Select conditioning	•	F-Factor No selectior		Length		UA 	
Slab on Grade (see Figure 1) Instructions Select R-Value	•	F-Factor No selectior		Length		UA 	
Location of Ducts		D .	uct I en	age Coel	ficient		
Unconditioned Space	-			1.10	lioient		
Elever 4	Enve	of UA Iope Heat Loac m of UA x ∆T	1			496.61 22,844	Btu / Hour
Figure 1.	Air Le	eakage HeatLo umex 0.6x∆Tx				13,749	Btu / Hour
Above Grade Below Grade	Air	ling Design Hea leakage + envelo _l ling and Duct H	pe heat l				Btu / Hour Btu / Hour
	Duc Duc	cts in unconditioned cts in conditioned mum Heat Equ	ed space space: s	: sum of bu um of build		at loss x 1. loss x 1	
	Buil	lding and duct he lding and duct he	at loss x	1.40 for for		,	
v, Skylight and Door Schedule							
Formation PAU RESIDENCE 58TH ST	F	Contact Informa RICHARD FL RICHARD@I	AKE	CHITEC	TURE	E.COM	
formation PAU RESIDENCE	F	RICHARD FL	AKE	CHITEC	TURE	E.COM	
formation PAU RESIDENCE 5 58TH ST R ISLAND, WA 98040	٦ ٦ -	RICHARD FL RICHARD@I	<u>AKE</u> RFAR Widt	h He	ight	E.COM	
formation PAU RESIDENCE 5 58TH ST R ISLAND, WA 98040 Re Swinging Door (24 sq. ft. max.)	٦ ٦ -	RICHARD FL	<u>AKE</u> RFAR Widt		ight	E.COM	Area
formation PAU RESIDENCE 5 58TH ST R ISLAND, WA 98040 	٦ ٦ -	RICHARD FL RICHARD@I	<u>AKE</u> RFAR Widt	h He	ight	E.COM	
formation PAU RESIDENCE 5 58TH ST R ISLAND, WA 98040 Re Swinging Door (24 sq. ft. max.)	٦ ٦ -	RICHARD FL RICHARD@I	<u>AKE</u> RFAR Widt	h He ^{Inch} Fei	ight	E.COM	0.0
Tormation PAU RESIDENCE 58TH ST R ISLAND, WA 98040 Swinging Door (24 sq. ft. max.) of Glazed Fenestration (15 sq. ft. max.) Fenestration (Windows and doors) Component Description Re	f. U-factor	RICHARD FL RICHARD@I	AKE RFAR Widt Feet Widt Feet	h He ^{Inch} Fer I I h He	ight et ^{Inch}	E.COM	0.0 0.0 Area
Tormation PAU RESIDENCE 58TH ST R ISLAND, WA 98040 Re Swinging Door (24 sq. ft. max.) ot Glazed Fenestration (15 sq. ft. max.) Fenestration (Windows and doors) Component Description Re 3080 3080	f. U-factor	RICHARD FL RICHARD@! Qt.	AKE RFAR Widt Feet Widt Feet 3 3	h He Inch Fer h He Inch Fer 0 8 0 8	ight et ^{Inch}	COM	0.0 0.0 Area 24.0 24.0
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Tormation PAU RESIDENCE 58TH ST R ISLAND, WA 98040 Swinging Door (24 sq. ft. max.) ot Glazed Fenestration (15 sq. ft. max.) Fenestration (Windows and doors) Component Description Re 3080 3080	f. U-factor	Qt. Qt. 1 1 1 1 1 1 1 1 1 1 1 1 1	AKE RFAR Widt Feet 3 3 3 3 20 6	h He Inch Fe Inch Fe Inch Fe 0 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8	ight ight et ^{Inch} ight et ^{Inch} 0 0 0 0 0 8	E.COM	0.0 0.0 Area 24.0 24.0 24.0 160.0 40.0
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formation PAU RESIDENCE 5 58TH ST R ISLAND, WA 98040 Result Swinging Door (24 sq. ft. max.) ot Glazed Fenestration (15 sq. ft. max.) Fenestration (Windows and doors) Component Description Result 3080 3080 20080 6068 10080	f. U-factor	Qt. Qt. 1 1 1 1 1 1 1 1 1 1 1 1 1	AKE RFAR Widt Feet 3 3 3 3 3 20 6 10 12	h He Inch Fe h He Inch Fe 0 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8	ight ight et ^{Inch} ight et ^{Inch} 0 0 0 0 0 8	E.COM	0.0 0.0 0.0 0.0 0.0 0.0 0.0 24.0 24.0 24.0 24.0 24.0 160.0 40.0 80.0 0.0 60.0
Formation PAU RESIDENCE 5 58TH ST R ISLAND, WA 98040 Result Swinging Door (24 sq. ft. max.) ot Glazed Fenestration (15 sq. ft. max.) Fenestration (Windows and doors) Component Description Result 3080 3080 3080 10080 120050 2030	f. U-factor	Qt. Qt. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AKE FAR Widt Feet 3 3 3 3 3 3 3 3 3 3 3 3 3 3 4 20 6 10 6 10 2 2 2	h He Inch Fe Inch Fe 0 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8	ight et Inch ight et Inch 0 0 0 0 0 0 8 0 0 8 0 0 0 0 8 0 0	COM.	0.0 0.0 0.0 0.0 0.0 0.0 0.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 60.0 60.0 6.0 6.0
Formation PAU RESIDENCE 5 58TH ST R ISLAND, WA 98040 Resident Stress Swinging Door (24 sq. ft. max.) ot Glazed Fenestration (15 sq. ft. max.) Fenestration (Windows and doors) Component Description Resident Stress 3080 3080 3080 3080 10080 10080 2030 2030 2030 2036 6056	f. U-factor	Qt. Qt. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AKE FAR Widt Feet 3 3 3 3 3 3 3 20 6 10 10 12 2 2 2 2 6	h He Inch Fe h He Inch Fe 0 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8	ight et ^{Inch} ight et ^{Inch} 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	COM.	0.0 0.0 0.0 0.0 0.0 0.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 60.0 60.0 6.0 7.0 33.0
Formation PAU RESIDENCE 5 58TH ST R ISLAND, WA 98040 Restriction (Wardows and coors) ot Glazed Fenestration (15 sq. ft. max.) Fenestration (Windows and doors) Component Description Restration (Windows and doors) Component Description 3080 3080 3080 10080 20080 6068 10080 2030 2030 2030 2036 6056 3030 2036	f. U-factor	Qt. Qt. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AKE RFAR(Widt Feet 3 3 3 3 3 3 3 3 3 20 6 10 6 10 12 2 2 2 6 3 3 20 6 10 12 2 2 2 6 3 3 20 6 10 12 2 2 2 2 6 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2	h He Inch Fe 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ight et Inch 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E.COM	0.0 0.0 0.0 0.0 0.0 0.0 0.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 60.0 60.0 6.0 6.0 7.0 33.0 9.0 7.0
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Formation PAU RESIDENCE 5 58TH ST R ISLAND, WA 98040 Respective Swinging Door (24 sq. ft. max.) ot Glazed Fenestration (15 sq. ft. max.) Fenestration (Windows and doors) Component Description Respective 3080 3080 3080 3080 10080 10080 2030 2030 2036 3030 2036 40100	f. U-factor	Qt. Qt. Qt. 1 1 1 1 1 1 1 1 1 1 1 1 1	AKE RFAR(Vidt Feet 3 3 3 3 20 6 10 6 10 12 2 2 2 6 3 3 20 6 10 12 2 2 4	h He Inch Fe Inch Fe 0 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8	ight et Inch et Inch et Inch 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	COM	0.0 0.0 0.0 0.0 0.0 0.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 60.0 60.0 60.0 60.0 60.0 60.0 60.0 60.0 7.0 33.0 9.0 27.5 21.0
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Formation PAU RESIDENCE 2 58TH ST RISLAND, WA 98040 R ISLAND, WA 98040 Re Swinging Door (24 sq. ft. max.) Re Swinging Door (24 sq. ft. max.) Image: Square s	f. U-factor	Qt. Qt. Qt. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AKE FAR Vidt Feet 3 3 3 3 3 3 3 3 3 3 3 20 6 10 12 2 2 2 6 3 3 3 3 3 3 3 3 20 6 10 12 2 2 6 3 3 2 2 6 3 3 2 2 6 6 3 2 2 6 6 6 6 6 6 6 6 6 6 6 6 6	h He Inch Fe A A A A A A A	ight et Inch ight et Inch 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	COM.	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0 60.0 6.0 6.0 7.0 33.0 33.0 33.0 33.0 6.0
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Component				Width	Heigl	
Description	Ref.	U-factor	Qt.	Feet Inc	¹ Feet	Inch
					+	
					-	
		Sum of Over	head Gla	azing Are	a and	UA
	Over	head Glazing A	rea Weid	nhted U =	UA/A	rea
		0				
Total Sum of Fenestration A	roa and II	A (for booting	ovotom	olaina a	alaula	410
Total Sulli OF Fellestration A	iea anu U	A (IOI nealing	system	sizing c	aicuia	lioi

2018 Washington State Energy Code – Residential Prescriptive Energy Code Compliance for All Climate Zones in Washington	
Single Family – New & Additions (effective February 1, 2021)	Version 1.2

These requirements apply to all IRC building types, including detached one- and two-family dwellings and multiple single-family dwellings (townhouses).

ect Information	Contact Information
<u>)</u>	Richard Flake
	richard@rfarchitecture.com

Instructions: This single-family project will use the requirements of the Prescriptive Path below and incorporate the minimum values listed. Based on the size of the structure, the appropriate number of additional credits are checked as chosen by the permit applicant. Provide all information from the following tables as building permit drawings: Table R402.1 - Insulation and

Fenestration Requirements by Component, Table R406.2 - Fuel Normalization Credits and 406.3 - Energy Credits.

Authorized Representative	de la companya	Date	8/7/2023
	All Climate Zones (Table R402.1.:	1)	
	R-Value a		U-Factor ^a
Fenestration U-Factor ^b	n/a		0.30
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 a 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 c 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 f 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. 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 insulation.

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Each dwelling unit *in a residential building* shall comply with sufficient options from Table R406.2 (fuel normalization credits) and Table 406.3 (energy credits) to achieve the following minimum number of credits. To claim this credit, the building permit drawings shall specify the option selected and the maximum tested building air leakage, and show the qualifying ventilation system and its control sequence of operation.

1. Small Dwelling Unit: 3 credits

24.0 0.00 60.0 0.0

Area UA

0.0 0.00 0.0 0.00

0.0 0.0

0.0 0.0

732.0 0.00

- Dwelling units less than 1,500 sf in conditioned floor area with less than 300 sf of fenestration area. Additions to existing building that are greater than 500 sf of heated floor area but less than 1,500 sf. 2. Medium Dwelling Unit: 6 credit
- All dwelling units that are not included in #1 or #3
- 3. Large Dwelling Unit: 7 credits Dwelling units exceeding 5,000 sf of conditioned floor area
- 4. Additions less than 500 square feet: 1.5 credits All other additions shall meet 1-3 above

Before selecting your credits on this Summary table, review the details in Table 406.3 (Single Family), on page 4.

	Summary of Ta	ble R406.2 and	406.3	
Heating Options	Fuel Normalization Descriptions		select ONE g option	User Notes
1	Combustion heating minimum NAECA ^b	0.0		
2	Heat pump ^c	1.0		
3	Electric resistance heat only - furnace or zonal	-1.0		
4	DHP with zonal electric resistance per option 3.4	0.5		
5	All other heating systems	-1.0		
Energy Options	Energy Credit Option Descriptions	energy opti	select ONE on from each gory ^d	
1.1	Efficient Building Envelope	0.5		
1.2	Efficient Building Envelope	1.0		
1.3	Efficient Building Envelope	0.5		
1.4	Efficient Building Envelope	1.0		
1.5	Efficient Building Envelope	2.0		
1.6	Efficient Building Envelope	3.0		
1.7	Efficient Building Envelope	0.5		
2.1	Air Leakage Control and Efficient Ventilation	0.5		
2.2	Air Leakage Control and Efficient Ventilation	1.0		
2.3	Air Leakage Control and Efficient Ventilation	1.5		
2.4	Air Leakage Control and Efficient Ventilation	2.0		
3.1ª	High Efficiency HVAC	1.0		
3.2	High Efficiency HVAC	1.0		
3.3ª	High Efficiency HVAC	1.5		
3.4	High Efficiency HVAC	1.5		
3.5.1	High Efficiency HVAC	1.5		
3.5.2	High Efficiency HVAC	1.5		
3.6ª	High Efficiency HVAC	2.0		
4.1	High Efficiency HVAC Distribution System	0.5		
4.2	High Efficiency HVAC Distribution System	1.0		

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	Summary of Table	R406.2 (co	nt.)		
Energy Options	Energy Credit Option Descriptions (cont.)	energy op	elect ONE tion from tegory ^d	User	Notes
5.1 ^d	Efficient Water Heating	0.5			
5.2	Efficient Water Heating	0.5			
5.3	Efficient Water Heating	1.0			
5.4	Efficient Water Heating	1.5			
5.5	Efficient Water Heating	2.0			
5.6	Efficient Water Heating	2.5			
6.1 ^e	Renewable Electric Energy (3 credits max)	1.0			
7.1	Appliance Package	0.5			
	Total Credits		6.0	Calculate Total	Clear Form

a. An alternative heating source sized at a maximum of 0.5 W/sf (equivalent) of heated floor area or 500 W,

whichever is bigger, may be installed in the dwelling unit. b. Equipment listed in Table C403.3.2(4) or C403.3.2(5)

c. Equipment listed in Table C403.3.2(1) or C403.3.2(2)

d. You cannot select more than one option from any category EXCEPT in category 5. Option 5.1 may be combined with options 5.2 through 5.6. See Table 406.3.

e. 1.0 credit for each 1,200 kWh of electrical generation provided annually, up to 3 credits max.

See the complete Table R406.2 for all requirements and option descriptions.

f. Use the single radiobutton in the upper right of the second column to deselect radiobuttons in that group.

Option	Table 406.3 – Energy Credits (Single Family) Description	Credits: SF
	IENT BUILDING ENVELOPE OPTIONS	Cieulo. Ji
Complia	e option from Items 1.1 through 1.7 may be selected in this category. nce with the conductive UA targets is demonstrated using Section R402.1.4, Total UA alternative,	where:
[1-(Prop	osed UA/Target UA)] > the required %UA reduction.	
1.1	Prescriptive compliance is based on Table R402.1.1 with the following modifications: Vertical fenestration U = 0.24	0.5
1.2	Prescriptive compliance is based on Table R402.1.1 with the following modifications:	1.0
1.2	Vertical fenestration U = 0.20	1.0
	Prescriptive compliance is based on Table R402.1.1 with the following modifications: Vertical fenestration U = 0.28 Floor R-38	
1.3	Slab on grade R-10 perimeter and under entire slab below grade slab R-10 perimeter and under entire slab <i>or</i>	0.5
	Compliance based on Section R402.1.4: Reduce the Total conductive UA by 5%	
	Prescriptive compliance is based on Table R402.1.1 with the following modifications: Vertical fenestration U = 0.25 Wall R-21 plus R-4 ci	
1.4	Floor R-38 Basement wall R-21 int plus R-5 ci	1.0
	Slab on grade R-10 perimeter and under entire slab Below grade slab R-10 perimeter and under entire slab <i>or</i>	
	Compliance based on Section R402.1.4: Reduce the Total conductive UA by 15%	
	Prescriptive compliance is based on Table R402.1.1 with the following modifications: Vertical fenestration U = 0.22	
	Ceiling and single-rafter or joist-vaulted R-49 advanced Wood frame wall R-21 int plus R-12 ci Floor R-38	
1.5	Basement wall R-21 int plus R-12 ci	2.0
	Slab on grade R-10 perimeter and under entire slab Below grade slab R-10 perimeter and under entire slab <i>or</i>	
	Compliance based on Section R402.1.4: Reduce the Total conductive UA by 30%	
	Prescriptive compliance is based on Table R402.1.1 with the following modifications: Vertical fenestration U = 0.18 Ceiling and single-rafter or joist-vaulted R-60 advanced	
1.6	Wood frame wall R-21 int plus R-16 ci Floor R-48	3.0
	Basement wall R-21 int plus R-16 ci Slab on grade R-20 perimeter and under entire slab Below grade slab R-20 perimeter and under entire slab <i>or</i>	
	Compliance based on Section R402.1.4: Reduce the Total conductive UA by 40%. Advanced framing and raised heel trusses or rafters	
1.7	Vertical Glazing U-0.28 R-49 Advanced (U-0.020) as listed in Section A102.2.1, <i>Ceilings below a vented attic and</i>	0.5
	R-49 vaulted ceilings with full height of uncompressed insulation extending over the wall top plate at the eaves.	
	2018 Washington State Energy Code – Residential Prescriptive Energy Code Compliance for All Climate Zones in Washington Single Family – New & Additions (effective February 1, 2021)	
	Table 406.3 – Energy Credits (Single Family)	
Option	Description	Credits: SI
	EAKAGE CONTROL AND EFFICIENT VENTILATION OPTIONS	
Only one	e option from Items 2.1 through 2.4 may be selected in this category. Compliance based on R402.4.1.2: Reduce the tested air leakage to 3.0 air changes per hour maximum at 50 Pascals <i>or</i>	
	For R-2 Occupancies, optional compliance based on Section R402.4.1.2: Reduce the tested air leakage to 0.3 cfm/sf maximum at 50 Pascals <i>and</i>	
2.1	All whole house ventilation requirements as determined by Section M1507.3 of the <i>International Residential Code</i> or Section 403.8 of the <i>International Mechanical Code</i> shall be	0.5
	met with a high efficiency fan(s) (maximum 0.35 watts/cfm), not interlocked with the furnace fan (if present). Ventilation systems using a furnace including an ECM motor are allowed, provided that they are controlled to operate at low speed in ventilation only mode.	
	To qualify to claim this credit, the building permit drawings shall specify the option being selected and the maximum tested building air leakage, and shall show the qualifying ventilation system and its control sequence of operation.	
	Compliance based on Section R402.4.1.2: Reduce the tested air leakage to 2.0 air changes per hour maximum at 50 Pascals or	
2.2	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	1.0
	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	

- met with a heat recovery ventilation system with minimum sensible heat reco 0.65.1 Compliance based on Section R402.4.1.2:
- Reduce the tested air leakage to 1.5 air changes per hour maximum at 50 Pas For R-2 Occupancies, optional compliance based on Section R402.4.1.2: Reduc
- 2.3 leakage to 0.25 cfm/sf maximum at 50 Pascals and All whole house ventilation requirements as determined by Section M1507.3 of International Residential Code or Section 403.8 of the International Mechanica met with a heat recovery ventilation system with minimum sensible heat reco 0.75.¹

Compliance based on Section R402.4.1.2: Reduce the tested air leakage to 0.6 air changes per hour maximum at 50 Pas

- For R-2 Occupancies, optional compliance based on Section R402.4.1.2: Reduc 2.4 leakage to 0.15 cfm/sf maximum at 50 Pascals and
- All whole house ventilation requirements as determined by Section M1507.3 of International Residential Code or Section 403.8 of the International Mechanica met with a heat recovery ventilation system with minimum sensible heat recov 0.80. Duct installation shall comply with Section R403.3.7.¹

¹ To qualify to claim this credit, the building permit drawings shall specify the option b the maximum tested building air leakage and shall show the heat recovery ventilation :

2018 Washington State Energy Code – Residential Prescriptive Energy Code Compliance for All climate Zones in Washington

Single Family – New & Additions (effective February 1,
Table 406.3 – Energy Credits (Single Family)
Description

3. HIGH EFFICIENCY HVAC EQUIPMENT OPTIONS Only one option from Items 3.1 through 3.6 may be selected in this category. 3.1 ² Energy Star rated (U.S. North) Gas or propane furnace with minimum AFUE of 95% or Energy Star rated (U.S. North) Gas or propane boiler with minimum AFUE of 90%. ² 1. 3.2 ² Air-source centrally ducted heat pump with minimum HSPF of 9.5. ³ 1. Closed-loop ground source heat pump; with a minimum COP of 3.3 or 1. 3.3 ² Open loop water source heat pump; with a maximum pumping hydraulic head of 150 feet and minimum COP of 3.6. ³ 1. Buctless mini-split heat pump system, zonal control: In homes where the primary space heating system is zonal electric heating, a ductless mini-split heat pump system with a minimum HSPF of 10.0 shall be installed and provide heating to the largest zone of the housing unit. ⁴ 1. Air-source, centrally ducted heat pump with minimum HSPF of 11.0. ⁴ 1. Air-source, inverter driven (variable speed) centrally ducted heat pump with minimum HSPF of 10.0 with at least one of the following: ⁴ 1. The system is listed on the NEEP cold climate air source heat pump water heater to a Tier IV heat pump water heater that is a unitary (nonsplit) system. 1. 3.5.2 ² Section R406. 1. 4. Use the appliance credit option 7.1, but the dryer is required to have a CEF of 3.93 or higher. This option is not available if it is already selected as one of the options to show co	Table 406.3 – Energy Credits (Single Family)					
Only one option from Items 3.1 through 3.6 may be selected in this category. 3.1 ² Energy Star rated (U.S. North) Gas or propane furnace with minimum AFUE of 95% or Energy Star rated (U.S. North) Gas or propane boiler with minimum AFUE of 90%. ² 1. 3.2 ² Air-source centrally ducted heat pump with minimum HSPF of 9.5. ³ 1. 3.3 ² Closed-loop ground source heat pump; with a minimum COP of 3.3 or Open loop water source heat pump with a maximum pumping hydraulic head of 150 feet and minimum COP of 3.6. ³ 1. 3.4 Ductless mini-split heat pump system, zonal control: In homes where the primary space heating system is zonal electric heating, a ductless mini-split heat pump system with a minimum HSPF of 10.0 shall be installed and provide heating to the largest zone of the housing unit. ⁴ 1. 3.5.1 ² Air-source, centrally ducted heat pump with minimum HSPF of 11.0. ⁴ 1. Air-source, inverter driven (variable speed) centrally ducted heat pump with minimum HSPF of 10.0 with at least one of the following: ⁴ 1. 1. The system is listed on the NEEP cold climate air source heat pump water heater to a Tier IV heat pump water heater that is a unitary (nonsplit) system. 1. 3.5.2 ² Section R406. 1. 3. If Option 5.3 has been selected, upgrade the Tier III heat pump water heater to a Tier IV heat pump water heater that is a unitary (nonsplit) system. 1. 4. Use the appliance credit option 7.1	Option	Description	Credits: SF			
3.1 ² Energy Star rated (U.S. North) Gas or propane boiler with minimum AFUE of 90%. ² 1. 3.2 ² Air-source centrally ducted heat pump with minimum HSPF of 9.5. ³ 1. Closed-loop ground source heat pump; with a minimum COP of 3.3 or 0pen loop water source heat pump; with a maximum pumping hydraulic head of 150 feet and minimum COP of 3.6. ³ 1. Ductless mini-split heat pump system, zonal control: In homes where the primary space heating system is zonal electric heating, a ductless mini-split heat pump system with a minimum HSPF of 10.0 shall be installed and provide heating to the largest zone of the housing unit. ⁴ 1. 3.5.1 ² Air-source, centrally ducted heat pump with minimum HSPF of 11.0. ⁴ 1. Air-source, inverter driven (variable speed) centrally ducted heat pump with minimum HSPF of 10.0 with at least one of the following: ⁴ 1. The system is listed on the NEEP cold climate air source heat pump database. 2. Compliance based on Section R402.1.4: Reduce the total conductive UA by 22%. This option shall not be used if any other envelope category option is selected to show compliance with Section R406. 1. 3. If Option 5.3 has been selected, upgrade the Tier III heat pump water heater to a Tier IV heat pump water heater that is a unitary (nonsplit) system. 1. 4. Use the appliance credit option 7.1, but the dryer is required to have a CEF of 3.93 or higher. This option is not available if it is already selected as one of the options to show compliance with Section R406. </td <td></td> <td></td> <td></td>						
3.3 2Closed-loop ground source heat pump; with a minimum COP of 3.3 or Open loop water source heat pump with a maximum pumping hydraulic head of 150 feet and minimum COP of 3.6. 31.3.4Ductless mini-split heat pump system, zonal control: In homes where the primary space heating system is zonal electric heating, a ductless mini-split heat pump system with a minimum HSPF of 10.0 shall be installed and provide heating to the largest zone of the housing unit. 41.3.5.1 2Air-source, centrally ducted heat pump with minimum HSPF of 11.0. 41.Air-source, inverter driven (variable speed) centrally ducted heat pump with minimum HSPF of 10.0 with at least one of the following: 41.1.The system is listed on the NEEP cold climate air source heat pump database. 2. Compliance based on Section R402.1.4: Reduce the total conductive UA by 22%. This option shall not be used if any other envelope category option is selected to show compliance with Section R406.1.3. If Option 5.3 has been selected, upgrade the Tier III heat pump water heater to a Tier IV heat pump water heater that is a unitary (nonsplit) system.1.4. Use the appliance credit option 7.1, but the dryer is required to have a CEF of 3.93 or higher. This option is not available if it is already selected as one of the options to show compliance with Section R406.1.	3.1 ²	· · · · · · · · · · · · · · · · · · ·	1.0			
 3.3² Open loop water source heat pump with a maximum pumping hydraulic head of 150 feet and minimum COP of 3.6.³ Ductless mini-split heat pump system, zonal control: In homes where the primary space heating system is zonal electric heating, a ductless mini-split heat pump system with a minimum HSPF of 10.0 shall be installed and provide heating to the largest zone of the housing unit.⁴ 3.5.1² Air-source, centrally ducted heat pump with minimum HSPF of 11.0.⁴ Air-source, inverter driven (variable speed) centrally ducted heat pump with minimum HSPF of 10.0 with at least one of the following:⁴ The system is listed on the NEEP cold climate air source heat pump database. Compliance based on Section R402.1.4: Reduce the total conductive UA by 22%. This option shall not be used if any other envelope category option is selected to show compliance with Section R406. If Option 5.3 has been selected, upgrade the Tier III heat pump water heater to a Tier IV heat pump water heater that is a unitary (nonsplit) system. Use the appliance credit option 7.1, but the dryer is required to have a CEF of 3.93 or higher. This option is not available if it is already selected as one of the options to show compliance with Section R406. 	3.2 ²	Air-source centrally ducted heat pump with minimum HSPF of 9.5. ³	1.0			
 3.4 system is zonal electric heating, a ductless mini-split heat pump system with a minimum HSPF of 10.0 shall be installed and provide heating to the largest zone of the housing unit. ⁴ 3.5.1² Air-source, centrally ducted heat pump with minimum HSPF of 11.0. ⁴ Air-source, inverter driven (variable speed) centrally ducted heat pump with minimum HSPF of 10.0 with at least one of the following: ⁴ The system is listed on the NEEP cold climate air source heat pump database. Compliance based on Section R402.1.4: Reduce the total conductive UA by 22%. This option shall not be used if any other envelope category option is selected to show compliance with Section R406. If Option 5.3 has been selected, upgrade the Tier III heat pump water heater to a Tier IV heat pump water heater that is a unitary (nonsplit) system. Use the appliance credit option 7.1, but the dryer is required to have a CEF of 3.93 or higher. This option is not available if it is already selected as one of the options to show compliance with Section R406. 	3.3 ²	Open loop water source heat pump with a maximum pumping hydraulic head of 150 feet and	1.5			
 Air-source, inverter driven (variable speed) centrally ducted heat pump with minimum HSPF of 10.0 with at least one of the following: ⁴ 1. The system is listed on the NEEP cold climate air source heat pump database. 2. Compliance based on Section R402.1.4: Reduce the total conductive UA by 22%. This option shall not be used if any other envelope category option is selected to show compliance with Section R406. 3. If Option 5.3 has been selected, upgrade the Tier III heat pump water heater to a Tier IV heat pump water heater that is a unitary (nonsplit) system. 4. Use the appliance credit option 7.1, but the dryer is required to have a CEF of 3.93 or higher. This option is not available if it is already selected as one of the options to show compliance with Section R406. 	3.4	system is zonal electric heating, a ductless mini-split heat pump system with a minimum HSPF of	1.5			
 10.0 with at least one of the following: ⁴ 1. The system is listed on the NEEP cold climate air source heat pump database. 2. Compliance based on Section R402.1.4: Reduce the total conductive UA by 22%. This option shall not be used if any other envelope category option is selected to show compliance with Section R406. 3. If Option 5.3 has been selected, upgrade the Tier III heat pump water heater to a Tier IV heat pump water heater that is a unitary (nonsplit) system. 4. Use the appliance credit option 7.1, but the dryer is required to have a CEF of 3.93 or higher. This option is not available if it is already selected as one of the options to show compliance with Section R406. 	3.5.1 ²	Air-source, centrally ducted heat pump with minimum HSPF of 11.0. ⁴	1.5			
Ductless split system heat numps with no electric resistance heating in the primary living areas	3.5.2 ²	 10.0 with at least one of the following: ⁴ The system is listed on the NEEP cold climate air source heat pump database. Compliance based on Section R402.1.4: Reduce the total conductive UA by 22%. This option shall not be used if any other envelope category option is selected to show compliance with Section R406. If Option 5.3 has been selected, upgrade the Tier III heat pump water heater to a Tier IV heat pump water heater that is a unitary (nonsplit) system. Use the appliance credit option 7.1, but the dryer is required to have a CEF of 3.93 or higher. This option is not available if it is already selected as one of the options to show compliance 	1.5			
A ductless heat pump system with a minimum HSPF of 10 shall be sized and installed to provide heat to entire dwelling unit at the design outdoor air temperature.		heat to entire dwelling unit at the design outdoor air temperature. To qualify to claim this credit, the building permit drawings shall specify the option being selected, the heated floor area calculation, the heating equipment type(s), the minimum equipment efficiency, and total installed heat capacity (by equipment type).	2.0 ichever is			
bigger, may be installed in the dwelling unit.						

³ To qualify to claim this credit, the building permit drawings shall specify the option being the heating equipment type and the minimum equipment efficiency.

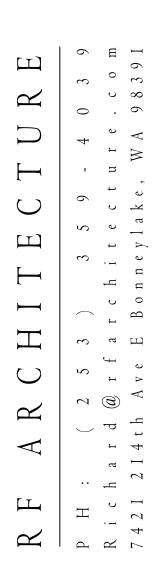
⁴ To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the heating equipment type and the minimum equipment efficiency.

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	Prescriptive Energy Code Compliance for All Climate Zones in Washington Single Family – New & Additions (effective February 1, 2021)	
Option	Table 406.3 – Energy Credits (Single Family) Description	Credits
4. HIGH E	EFFICIENCY HVAC DISTRIBUTION SYSTEM OPTIONS All supply and return ducts located in an unconditioned attic shall be deeply buried in ceiling	
4.1	Insulation in accordance with Section R403.3.7. For mechanical equipment located outside the conditioned space, a maximum of 10 linear fe 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.	et 0.5
4.2	HVAC equipment and associated duct system(s) installation shall comply with the requirements of Section R403.3.7. Locating system components in conditioned crawl spaces is not permitted under this option. Electric resistance heat and ductless heat pumps are not permitted under this option. Direct combustion heating equipment with AFUE less than 80% is not permitted under this	1.0
	option. To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the heating equipment type and shall show the location of the heating and cooling equipment and all the ductwork. 2018 Washington State Energy Code – Residential	
	Prescriptive Energy Code Compliance for All Climate Zones in Washington Single Family – New & Additions (effective February 1, 2021)	
Option	Table 406.3 – Energy Credits (Single Family) Description ENT WATER HEATING OPTIONS	Credits
	option from Items 5.2 through 5.6 may be selected in this category. Item 5.1 may be combined with a A drain water heat recovery unit(s) shall be installed, which captures waste water heat from a and only the showers, and has a minimum efficiency of 40% if installed for equal flow or a minimum efficiency of 54% if installed for unequal flow. Such units shall be rated in accordan with CSA B55.1 or IAPMO IGC 346-2017 and be so labeled. To qualify to claim this credit, the building permit drawings shall include a plumbing diagram that specifies the drain water heat recovery units and the plumbing layout needed to install i Labels or other documentation shall be provided that demonstrates that the unit complies w	0.5
5.2	the standard. Water heating system shall include one of the following: Energy Star rated gas or propane water heater with a minimum UEF of 0.80. ⁵	0.5
5.3	Water heating system shall include one of the following: Energy Star rated gas or propane water heater with a minimum UEF of 0.91 <i>or</i> Solar water heating supplementing a minimum standard water heater. Solar water heating w provide a rated minimum savings of 85 therms or 2000 kWh based on the Solar Rating and Certification Corporation (SRCC) Annual Performance of OG-300 Certified Solar Water Heatin Systems <i>or</i> Water heater heated by ground source heat pump meeting requirements of Option 3.3. To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the water heater equipment type and the minimum equipment	
	efficiency and, for solar water heating systems, the calculation of minimum energy savings. Water heating system shall include one of the following:	
5.4	Electric heat pump water heater meeting the standards for Tier I of NEEA's advanced water heating specification or For R-2 Occupancy, electric heat pump water heater(s), meeting the standards for Tier I 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 recirculatic piping shall be insulated with R-8 minimum pipe insulation. ⁵	1.5
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 <i>or</i> 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 recirculatio piping shall be insulated with R-8 minimum pipe insulation. ⁵	2.0
	Electric heat summer water haster with a maintain line for the line in the	
· · · · · · · · · · · · · · · · · · ·	Electric heat pump water heater with a minimum UEF of 2.9 and utilizing a split syste configuration with the air-to-refrigerant heat exchanger located outdoors. Equipment sh meet Section 4, requirements for all units, of the NEEA standard Advanced Water Heat Specification with the UEF noted above or For R-2 Occupancy, electric heat pump water heater(s), meeting the standards for Tier III of NEEA's advanced water heating specification and utilizing a split system configuration with th air-to-refrigerant heat exchanger located outdoors, 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. ⁵ lify to claim this credit, the building permit drawings shall specify the option being selected an the water heater equipment type and the minimum equipment efficiency.	all ng 2.5 e
[;] To qual	configuration with the air-to-refrigerant heat exchanger located outdoors. Equipment sh meet Section 4, requirements for all units, of the NEEA standard Advanced Water Heatil Specification with the UEF noted above or For R-2 Occupancy, electric heat pump water heater(s), meeting the standards for Tier III of NEEA's advanced water heating specification and utilizing a split system configuration with the air-to-refrigerant heat exchanger located outdoors, 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. ⁵ lify to claim this credit, the building permit drawings shall specify the option being selected an the water heater equipment type and the minimum equipment efficiency. 2018 Washington State Energy Code – Residential Prescriptive Energy Code Compliance for All Climate Zones in Washington	all ng 2.5 e
ⁱ To qual specify	configuration with the air-to-refrigerant heat exchanger located outdoors. Equipment sh meet Section 4, requirements for all units, of the NEEA standard Advanced Water Heat Specification with the UEF noted above or For R-2 Occupancy, electric heat pump water heater(s), meeting the standards for Tier III of NEEA's advanced water heating specification and utilizing a split system configuration with th air-to-refrigerant heat exchanger located outdoors, 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. ⁵ lify to claim this credit, the building permit drawings shall specify the option being selected an the water heater equipment type and the minimum equipment efficiency. 2018 Washington State Energy Code – Residential Prescriptive Energy Code Compliance for All Climate Zones in Washington Single Family – New & Additions (effective February 1, 2021) Table 406.3 – Energy Credits (Single Family)	all ng 2.5 e d shall
³ To qual specify Option	configuration with the air-to-refrigerant heat exchanger located outdoors. Equipment sh meet Section 4, requirements for all units, of the NEEA standard Advanced Water Heat Specification with the UEF noted above or For R-2 Occupancy, electric heat pump water heater(s), meeting the standards for Tier III of NEEA's advanced water heating specification and utilizing a split system configuration with the air-to-refrigerant heat exchanger located outdoors, 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. ⁵ lify to claim this credit, the building permit drawings shall specify the option being selected an the water heater equipment type and the minimum equipment efficiency. 2018 Washington State Energy Code – Residential Prescriptive Energy Code Compliance for All Climate Zones in Washington Single Family – New & Additions (effective February 1, 2021) Table 406.3 – Energy Credits (Single Family) Description VABLE ELECTRIC ENERGY OPTION	all ng 2.5 e d shall Credits
³ To qual specify Option 5. RENEV 6.1	configuration with the air-to-refrigerant heat exchanger located outdoors. Equipment sh meet Section 4, requirements for all units, of the NEEA standard Advanced Water Heati Specification with the UEF noted above or For R-2 Occupancy, electric heat pump water heater(s), meeting the standards for Tier III of NEEA's advanced water heating specification and utilizing a split system configuration with th air-to-refrigerant heat exchanger located outdoors, 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. ⁵ lify to claim this credit, the building permit drawings shall specify the option being selected an the water heater equipment type and the minimum equipment efficiency. 2018 Washington State Energy Code – Residential Prescriptive Energy Code Compliance for All Climate Zones in Washington Single Family – New & Additions (effective February 1, 2021) Table 406.3 – Energy Credits (Single Family) Description VABLE ELECTRIC ENERGY OPTION For each 1200 kWh of electrical generation per housing unit provided annually by on-site wir or solar equipment a 1.0 credit shall be allowed, up to 3 credits. Generation shall be calculate as follows: For solar electric systems, the design shall be demonstrated to meet this requirement using the National Renewable Energy Laboratory calculator PVWATTs or approved alternate by the code official. Documentation noting solar access shall be included on the plans. For wind generation projects designs shall document annual power generation based on the following factors: the wind turbine power curve; average annual wind speed at the site; frequency distribution of t wind speed at the site and height of the tower. To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall show the photovoltaic or wind turbine equipment type, provide documentation of solar and wind access, and include a	all ng 2.5 e 2.5 d shall d shall d 1.0
⁵ To qual specify Option 5. RENEV 6.1	configuration with the air-to-refrigerant heat exchanger located outdoors. Equipment sh meet Section 4, requirements for all units, of the NEEA standard Advanced Water Heati Specification with the UEF noted above or For R-2 Occupancy, electric heat pump water heater(s), meeting the standards for Tier III of NEEA's advanced water heating specification and utilizing a split system configuration with th air-to-refrigerant heat exchanger located outdoors, 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. ⁵ lify to claim this credit, the building permit drawings shall specify the option being selected an the water heater equipment type and the minimum equipment efficiency. 2018 Washington State Energy Code – Residential Prescriptive Energy Code Compliance for All Climate Zones in Washington Single Family – New & Additions (effective February 1, 2021) Table 406.3 – Energy Credits (Single Family) Description VABLE ELECTRIC ENERGY OPTION For each 1200 kWh of electrical generation per housing unit provided annually by on-site wir or solar equipment a 1.0 credit shall be allowed, up to 3 credits. Generation shall be calculate as follows: For solar electric systems, the design shall be demonstrated to meet this requirement using the National Renewable Energy Laboratory calculator PVWATTs or approved alternate by the code official. Documentation noting solar access shall be included on the plans. For wind generation projects designs shall document annual power generation based on the following factors: the wind turbine power curve; average annual wind speed at the site; frequency distribution of t wind speed at the site and height of the tower. To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall show the photovoltaic or wind turbine equipment type, provide documentation of solar and wind access, and inclu	all ng 2.5 e 2.5 d shall d shall d 1.0
³ To qual specify Option 5. RENEV 6.1 7. APPLIA 7. 1	configuration with the air-to-refrigerant heat exchanger located outdoors. Equipment sh meet Section 4, requirements for all units, of the NEEA standard Advanced Water Heati Specification with the UEF noted above or For R-2 Occupancy, electric heat pump water heater(s), meeting the standards for Tier III of NEEA's advanced water heating specification and utilizing a split system configuration with th air-to-refrigerant heat exchanger located outdoors, 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. ⁵ IIFy to claim this credit, the building permit drawings shall specify the option being selected an the water heater equipment type and the minimum equipment efficiency. 2018 Washington State Energy Code – Residential Prescriptive Energy Code Compliance for All Climate Zones in Washington Single Family – New & Additions (effective February 1, 2021) Table 406.3 – Energy Credits (Single Family) Description VABLE ELECTRIC ENERGY OPTION For each 1200 kWh of electrical generation per housing unit provided annually by on-site wir or solar equipment a 1.0 credit shall be allowed, up to 3 credits. Generation shall be calculate as follows: For solar electric systems, the design shall be demonstrated to meet this requirement using the National Renewable Energy Laboratory calculator PVWATTs or approved alternate by the code official. Documentation noting solar access shall be included on the plans. For wind generation projects designs shall document annual power generation based on the following factors: the wind utrihue power curve; average annual wind speed at the site; frequency distribution of t wind speed at the site and height of the tower. To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall show the photovoltaic or wind turbine equipment type, provide documentation of solar and wind access, and include a	all ng 2.5 e 2.5 d shall 10 d d 1.0 ne 1.0
³ To qual specify Option 5. RENEV 6.1 7. APPLIA 7. 1 7.1	configuration with the air-to-refrigerant heat exchanger located outdoors. Equipment sh meet Section 4, requirements for all units, of the NEEA standard Advanced Water Heats Specification with the UEF noted above or For R-2 Occupancy, electric heat pump water heater(s), meeting the standards for Tier III of NEEA's advanced water heating specification and utilizing a split system configuration with th air-to-refrigerant heat exchanger located outdoors, 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. ⁵ IIfy to claim this credit, the building permit drawings shall specify the option being selected an the water heater equipment type and the minimum equipment efficiency. 2018 Washington State Energy Code – Residential Prescriptive Energy Code Compliance for All Climate Zones in Washington Single Family – New & Additions (effective February 1, 2021) Table 406.3 – Energy Credits (Single Family) Description VABLE ELECTRIC ENERGY OPTION For each 1200 kWh of electrical generation per housing unit provided annually by on-site wir or solar equipment a 1.0 credit shall be allowed, up to 3 credits. Generation shall be calculate as follows: For solar electric systems, the design shall be demonstrated to meet this requirement using the National Renewable Energy Laboratory calculator PVWATTs or approved alternate by the code official. Documentation noting solar access shall be included on the plans. For wind generation projects designs shall document annual power generation based on the following factors: the wind speed at the site and height of the tower. To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall show the photovoltaic or wind turbine equipment type, provide documentation of solar and wind access, and include a calculation of the minimum annual energy power production. NMCE PACKAGE OPTION All of the fol	all ng 2.5 e 2.5 d shall 10 d d 1.0 he 1.0
 ⁵ To qual specify Option 6.1 6.1 7. APPLIA 7.1 ENEF ALL NEW VASHING 	configuration with the air-to-refrigerant heat exchanger located outdoors. Equipment sh meet Section 4, requirements for all units, of the NEEA standard Advanced Water Heat Specification with the UET noted above or For R-2 Occupancy, electric heat pump water heater(s), meeting the standards for Tier III of NEEA's advanced water heating specification and utilizing a split system configuration with the air-to-refrigerant heat exchanger located outdoors, shall specify the option being selected an the 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. ⁵ III' to calim this credit, the building permit drawings shall specify the option being selected an the water heater equipment type and the minimum equipment efficiency. 2018 Washington State Energy Code – Residential Prescriptive Energy Code Compliance for All Climate Zones in Washington Single Family – New & Additions (effective February 1, 2021) Table 406.3 – Energy Credits (Single Family) Description VABLE ELECTRIC ENERGY OPTION For each 1200 kWh of electrical generation per housing unit provided annually by on-site wir or solar equipment a 1.0 credit shall be allowed, up to 3 credits. Generation shall be calculate as follows: For solar electric systems, the design shall be demonstrated to meet this requirement using the National Renewable Energy Laboratory calculator PVWATTs or approved alternate by the code official. Documentation noting solar access shall be included on the plans. For wind generation projects design shall document annual power generation based on the following factors: the wind turbine power curve; average annual wind speed at the site; frequency distribution of t wind speed at the site and height of the tower. To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall show the photovoltaic or wind turbine equipment type, provide documentation of solar and wind access, and include a calculat	all ng 2.5 e 2.5 d shall 10 d d 1.0 he 1.0
³ To qual specify Option 5. RENEV 6.1 7. APPLIA 7. APPLIA 7. 1	configuration with the air-to-refrigerant heat exchanger located outdoors. Equipment sh meet Section 4, requirements for all units, of the NEEA standard Advanced Water Heat Specification with the UEF noted above or For R-2 Occupancy, electric heat pump water heater(s), meeting the standards for Tier III of NEEA's advanced water heating specification and utilizing a split system configuration with th in-to-refrigerant heat exchanger located outdoors, shall suppid 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. ⁵ III's to calim this credit, the building permit drawings shall specify the option being selected an the water heater equipment type and the minimum equipment efficiency. 2018 Washington State Energy Code – Residential Prescriptive Energy Code Compiliance for All Climate Zones in Washington Single Family – New & Additions (effective February 1, 2021) Table 406.3 – Energy Credits (Single Family) Description WABLE ELECTRIC ENERGY OPTION For each 1200 Whof electrical generation per housing unit provided annually by on-site wir or solar equipment a 1.0 credit shall be allowed, up to 3 credits. Generation shall be calculate as follows: For solar electric systems, the design shall be demonstrated to meet this requirement using the National Renewable Energy Laboratory calculator PVWAITs or approved alternate by the code official. Documentation noting solar access shall be included on the plans. For wind generation projects design shall document annual power generation based on the following factors: the wind speed at the site and height of the tower. To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall show the photovoltaic or wind turbine equipment type, provide documentation of solar and wind access, and include a calculation of the minimum annual energy power production. ENCE PACKAGE OPTION All of	all ng 2.5 e 2.5 d shall 10 d d 1.0 he 1.0
 To qual specify Option 6.1 6.1 7.1 7.1 ENEF LL NEW VASHING CONDITIC COMPONI WEW VER VEW VER VAULTED 	configuration with the air-to-refrigerant heat exchanger located outdoors. Equipment sine to the NEEA standard Advanced Watter Head Specification with the UEF noted above or For R-2 Occupancy, electric heat pump water heater(s), meeting the standards for Tier III of NEEA's advanced water heating specification and utilizing a split system configuration with the user schanger located outdoors, 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 insultated with R-8 minimum pipe insulator. ³ lify to claim this credit, the building permit drawings shall specify the option being selected an the water heater equipment type and the minimum equipment efficiency. 2018 Washington State Energy Code - Residential Prescriptive Energy Code Compliance for All Climate Zones in Washington Single Family - New & Additions (effective February 1, 2021) Value Electric Energy Code Compliance for All Climate Zones in Washington Single Family - New & Additions (effective February 1, 2021) Value Electric Energy Code Compliance for All Climate Zones in Washington Single Family - New & Additions (effective February 1, 2021) Value Electric Energy Code Compliance for All Climate Zones in Washington Single Family - New & Additions (effective February 1, 2021) Value Electric Energy Code Compliance for All Climate Zones in Washington Single Family Description Value Electric Energy Code Compliance for All Climate Zones in Washington Single Family Decomplance Single Family	all ng 2.5 e 2.5 d shall 10 d d 1.0 he 1.0
 To qual specify Option Specify Applia APPLIA APPLIA Table State Tab	configuration with the air-to-refrigerant heat exchanger located outdoors. Equipment is meet Section 4, requirements for all units, of the NEEA standard Advanced Water Head Specification with the UE noted above or For R-2 Occupancy, electric heat pump water heater(s), meeting the standards for Tier III of NEEAS advanced water heating specification and utilizing a pull system configuration with the user heater is serving more than one dwelling unit, all hot water supply and recirculation piping shall be insulated with A-8 minimum pipe insulation. ³ IIIf to claim this credit, the building permit drawings shall specify the option being selected an the water heater equipment type and the minimum equipment fractions. <i>2018 Washington State Energy Code – Residential</i> Prescriptive Energy Code Compliance for All Climate Zones in Washington Single Family - New & Additions (effective February 1, 2021) Table 406.3 – Energy Credits (Single Family) Description WABLE LECTRIC ENERGY OPTION For each 1200 KWh of electrical generation per housing unit provided annually by on-site wir or solar equipment a 1.0 credit shall be allowed, up to 3 credits. Generation shall be calculate as follows: For solar electric systems, the design shall be demonstrated to meet this requirement using the National Renewable Energy Laboratory calculator PWWATTs or approved alternate by the code official. Documentation noting solar access shall be included on the plans. For wind generation projects designs shall docume tannual power generation based on the following factors: the wind speed at the site and height of the tower. Documentation of solar and wind access, and include a calculation of the minimum annual energy power production. NEC PACKAGE OPTION All of the following appliances shall be new and installed in the dwelling unit and shall meet the following standards: Disfwasher – Energy Star rated Washing machine – Energy Star rated Washing machine – Energy Star rated Washing machine – Energy Star rated 	all ng 2.5 e 2.5 d shall 10 d d 1.0 he 1.0
To qual specify Option 5. RENEV 6.1 7. APPLIA	configuration with the air-to-refrigerant heat exchanger located outdoors. Equipment is meet Section 4, requirements for all units, of the NEEA standard Advanced Water Head Specification with the UE noted above or For R-2 Occupancy, electric heat pump water heater(s), meeting the standards for Tier III of NEEAS advanced water heating specification and utilizing a pull system configuration with the user heater is serving more than one dwelling unit, all hot water supply and recirculation piping shall be insulated with A-8 minimum pipe insulation. ³ IIIf to claim this credit, the building permit drawings shall specify the option being selected an the water heater equipment type and the minimum equipment fractions (Single Family) Description VABLE LECTRIC ENERGY OPTION For each 1200 KWh of electrical generation per housing unit provided annually by on-site wir or solar equipment to 2.0 credit shall be allowed, up to 3 credits. Generation shall be calculate as follows: For solar equipment a 1.0 credit shall be allowed, up to 3 credits. Generation shall be calculate as follows: For solar equipment a 1.0 credit shall be allowed, up to 3 credits. Generation shall be calculate as follows: For solar equipment a 1.0 credit shall be allowed, up to 3 credits. Generation shall be calculate as follows: For solar electric systems, the design shall be demonstrated to meet this requirement using the National Renewable Energy Laboratory calculator PWWATTs or approved alternate by the code official. Documentation noting solar access shall be included on the plans. For wind generation projects designs shall be calculate as the site; frequency distribution of twind speed at the site and height of the tower. To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall show the photovoltaic or wind turbine equipment type, provide documentation of solar and wind access, and include a calculation of the minimum annual energy power production. Projects designs shall be used the si	all ng 2.5 a 2.5 c





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DESIGN: RWF



СНЕСКЕD: RWF REVISIONS:



Nov 16, 2023

A-0.2

75% OF ALL LIGHT FIXTURES SHALL BE LED RECESSED (HIGH EFFICIENCY). ALL CAN LIGHTS MUST MEET R402.4.4.

ENERGY CODE.

2018 Residential Ventilation Compliance Summary

Applicant:_____ ____Parcel:_____ Permit Number A whole-house ventilation system is required by the building code (2018 IRC Section M1505.4) to promote healthy indoor air quality in homes and provide increased comfort for occupants. This is required for new dwelling units,

and additions to existing dwelling units over 500 square feet. WHOLE HOUSE VENTILATION SYSTEM TYPE (see descriptions next page) Note, if the project has selected an Air Leakage Control and Efficient Ventilation Option

- <u>R406.3</u>, the ventilation system type chosen must be consistent with that option's requirements. Exempt: addition less than 500 sq.ft. or remodel only
- Exhaust fan(s) only (IRC M1505.4.1.2)
- Supply fan(s) only (<u>IRC M1505.4.1.3</u>) Balanced system (<u>IRC M1505.4.1.4</u>), including HRVs
- Furnace Integrated Supply (IRC M1505.4.1.5)

WHOLE HOUSE VENTILATION SYSTEM AIRFLOW RATE

Step 1: Find airflow rate minimum from Table 1, circle applicable airflow.

Step 2: Multiple airflow rate by applicable multiplier from Table 2, type adjusted airflow in table. Step 3: Multiply airflow rate by applicable multiplier from Table 3, type adjusted airflow in table.

	Conditioned				Numb	per of	Bedroom	is in	the Home		
	Floor Area of the Home in		udio & 1 edroom	2 b	edrooms		3 bedroo	ms	4 bedrooms	5 or m bedroo	
	square feet				Airflow	in cu	bic feet pe	er mi	inute (CFM)	•	
	< 500		30		30		35		45	50	
	501 - 1,000		30		35		40		50	55	
	1,001 - 1,500		30		40		45		55	60	
	1,501 - 2,000		35		45		50		60	65	
	2,001 - 2,500		40		50		55		65	70	
	2,501 - 3,000		45		55		60		70	75	
	3,001 - 3,500		50		60		65		75	80	
	3,501 - 4,000		55		65		70		80	85	
	4,001 - 4,500		60		70		75		85	90	
	4,501 - 5,000		65		75		80		90	95	
	> 5,001		(0						e Home in square n the Home + 1)]	feet)	
le 2.	WHOLE-HOUSE \	/ENTI	LATION Q	UALIT	Y ADJU	STMI	ENT (circ	le, ty	/pe adjusted rate)	_
	SYSTEM 1	YPE	DISTRIBL	JTED	NOT DI	STR	IBUTED	Ν	lin. adjusted fan si	ze (CFM)	
	BALAN	ICED	1.0)		1.25	5				
	NOT BALAN	ICED	1.2	5		1.5					
le 3. I	INTERMITTENT W	HOLE	-HOUSE \	ENTIL		RATE	E FACTO	RS (circle, type adjus	ted rate)	
	Run-time % in eac	h 4-ha	our segmer	nt		1	Multiplier		Min. adjus	ted fan size	e (CFM)
	50% (2 hrs every 4 hrs; 12 hrs /day)			V)			2				
	66% (2 hrs 40 mir				av)		1.5				
	75% (3 hrs every						1.3				
	100% (continuous						1.0				

WHOLE HOUSE VENTILATION SYSTEM SUMMARY

___Airflow rate (CFM):_____Specify run-time:_____ Specify: Location of ventilation equipment:

WHOLE HOUSE VENTILATION SYSTEM TYPES

Balanced whole house ventilation is any combination of concurrently operating mechanical exhaust and mechanical supply whereby the total mechanical exhaust airflow rate is within10% or 5 cfm of the total mechanical supply airflow rate, whichever is greater.

Distributed whole house ventilation is when outdoor air is supplied directly (not transfer air) to each habitable space and the exhausts air from all kitchen and bathrooms is vented directly to the outside.

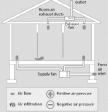


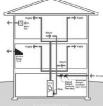
Exhaust fan(s) only (IRC M1505.4.1.2) This type of system has one or more exhaust fans, such as in bathrooms and laundry rooms, that have controls to provide intermittent or continuous exhaust from the dwelling unit to remove stale, moist air. In this type of system there is no dedicated supply air to replace the exhausted air, so fresh air is brought into the home passively through openings such as windows, window vents, through-wall vents, or leakage in the home's air barrier. With recent air barrier construction My All Infiltration in Vegetive or pressure less opportunities for air leakage.



Balanced Ventilation

Supply fan(s) only (<u>IRC M1505.4.1.3</u>) This type of system has one or more supply fans that are provided with controls to provide intermittent or continuous fresh air into the dwelling unit. In this type of system there is no interconnected exhaust fans, so the system works to pressurize the home, pushing stale moist air out of the building through openings such as windows, window vents, through-wall vents, or leakage in the home's air barrier. With recent air barrier construction requirements and techniques improving, homes Auflow
 Auflow Balanced system (<u>IRC M1505.4.1.4</u>), including HRVs This type of system has both supply and exhaust fans that are provided with controls to provide intermittent or continuous fresh air into the dwelling unit and





designed. A balanced system can also include an energy (or heat) recovery superin ventilator (ERV/HRV), an appliance that provides both supply and exhaust air in one unit and captures the energy or heat from the exhaust air and transfers A dur kellenden - Regelere ein pressure it to the supply air via a heat exchanger to minimize energy loss in the system. Furnace Integrated Supply (IRC M1505.4.1.5)

Previous editions of the codes allowed fresh air to be introduced to the home from an outside air duct connected directly to a home's furnace. This is no longer permitted in the code outright, as the system uses excess energy when the fans in the heating/cooling equipment are required to operate to distribute the air. This type of system may only be used if the heating system air handler fan(s) have multi-speed or variable speed flow capability.

)	
on from WSEC Table	
iromonto	

Floor plans should
indicate the location,
type, and airflow rate
of whole-house
ventilation system.

exhaust from the dwelling unit to remove stale, moist air. When two fans and two duct systems are used, these must provide a balanced airflow rate to operate as

A	AIR BARRIER AND INSULATION INS	STALLATION TABLE R402.4.1.1
<u>COMPONENT</u>	AIR BARRIER CRITERIA	INSULATION CRITERIA
Air barrier and thermal barrier	A continuous air barrier shall be installed in the building envelope. Exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	Air-permeable insulation shall not be used as a sealing material. Class I or II vapor retarders are required on the interior side of framed cavities.
Cavity insulation installation	product recommendation and said density shall be mai voids or gaps and maintain an even density for the enti depth. Where an obstruction in the cavity due to service cut to fit the remaining depth of the cavity. Where the b surface or concealed voids, and at the manufacturers' stapled to the face of the stud. There shall be no comp	sulation. The density of the insulation shall be at the manufacturers' ntained for all volume of each cavity. Batt type insulation will show no re cavity. Batt insulation shall be installed in the recommended cavity es, blocking, bracing or other obstruction exists, the batt product will be att is cut around obstructions, loose fill insulation shall be placed to fill an specified density. Where faced batt is used, the installation tabs must be ression to the batt at the edges of the cavity due to inset stapling conforms to available space shall be installed filling the entire cavity and
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier sealed. Access openings, drop down stair or knee wall doors to unconditioned attic spaces shall be sealed.	Batt insulation installed in attic roof assemblies may be compressed at exterior wall lines to allow for required attic ventilation. The insulation in any dropped ceiling or soffit shall be aligned with the air barrier.
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities within corners and headers shall be insulated by completely filling the cavity with a material having a minimum thermal resistance of R-3 per inch. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.
Windows, skylights and	Space between window/door jambs and framing and skylights and framing shall be sealed.	
Rim joists	Rim joists shall include the air barrier.	Rim joists shall be insulated
Floors (including above- garage and cantilevered)	The air barrier shall be installed at any exposed edge of insulation.	Installed to maintain permanent contact with underside of subfloor decking or permitted to be in contact with the topside of sheathing or continuous insulation installed on the underside of floor framing and extend from the bottom to the top of all perimeterfloor
Crawl space walls	Soil in unvented crawl spaces shall be covered with Class I, black vapor retarder with joints taped.	Where provided in lieu of floor insulation, insulation shall be permanently attached to the crawlspace walls.
Shafts, penetrations	Duct shafts, utility penetrations, and flue shafts opening	to exterior or unconditioned space shall be sealed.
Narrowcavities		Batts in narrow cavities shall be cut to fit and installed to the correct density without any voids or gaps or compression. Narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity space.
Garage separation	Air sealing shall be provided between the garage and c	
Recessedlighting	Shall be sealed to the drywall.	Shall be air tight, and IC rated.
Plumbing and wiring		Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls. There shall be no voids or gaps or compression where cut to fit. Insulation that readily conforms to available space shall extend behind piping and wiring.
Shower and/ortub	Installed at exterior walls adjacent to showers and tubs shall separate them from showers and tubs.	Exterior walls adjacent to showers or tubs shall beinsulated
Electrical/phone	Barrier shall be installed behind electrical or communica	ation boxes on exterior wall or install air sealed boxes.
HVAC register boots	Boots that penetrate building thermal envelope shall be sealed to the subfloor or drywall.	
Concealed Sprinklers	When required to be sealed, fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill voids between fire sprinkler cover plates and walls or ceilings.	

AIR INFILTRATION AND TESTING

The building shall be tested and verified as having an air leakage rate not exceeding 5.0 air changes per hour (ACH). Note, if the project has selected an Air Leakage Control and Efficient Ventilation Option from <u>WSEC Table R406.3</u>, the maximum air leakage allowed may be reduced.

Testing shall be conducted with a blower door at a pressure of 0.2 in. w.g. For this test only, the volume of the home shall be the square feet of conditioned floor area multiplied by 8.5 feet. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. During testing:

- 1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures. 2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but
- not sealed beyond intended infiltration control measures. 3. Interior doors, if installed at the time of the test, shall be open, access hatches to conditioned
- crawl spaces and conditioned attics shall be open. 4. Exterior or interior terminations for continuous ventilation systems and heat recovery ventilators shall be sealed.
- 5. Heating and cooling systems, if installed at the time of the test, shall be turned off. 6. Supply and return registers, if installed at the time of the test, shall be fully open. Exceptions:

 ver		
1.	Additions	less than 500 square feet (46 m ²) of conditioned floor area.
2.	Additions	tested with the existing home having a combined maximum air leakage rate of 7 air
	• •	per hour. To qualify for this exception, the date of construction of the existing house prior to the 2009 Washington State Energy Code.

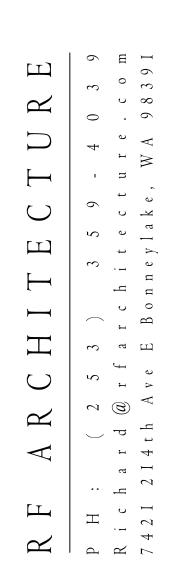
Blower door test calculated flow: BLDG Volume _____ ft.³ x 5 ACH / 60 min. = ____ cfm OR Adjusted rate per Energy Credit Option 2.____ Blower door test calculated flow: BLDG Volume _____ ft.³ x __ ACH / 60 min. = _____ cfm

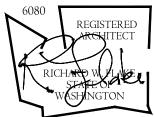
DUCT LEAKAGE AND TESTING

1. Ducts shall be leak tested in accordance with WSU RS-33, using the maximum 4 cfm per 100 square feet of conditioned floor area. If the air handler is not installed at the time of the test, total leakage shall be less than or equal to 3 cfm per 100 square feet of conditioned floor area. _ sq.ft. / 100 sq.ft. X 4 cfm = ___ Total sq.ft. cfm Exceptions:

1. The total leakage test or leakage to the outdoors is not required for ducts and air handlers located entirely within the building thermal envelope. For forced air ducts, a maximum of 10 linear feet of return ducts and 5 linear feet of supply ducts may be located outside the conditioned space. 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. Flex duct connections must be made with nylon straps and installed using a plastic strapping tensioning tool. Ducts located in crawl spaces do not qualify for this exception. 2. A duct air leakage test shall not be required for ducts serving heat or energy recovery ventilators that are not integrated with ducts serving heating or cooling systems.

> A written report of results must be signed by the party conducting the test and provided to the King County Building Inspector.





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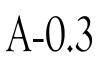


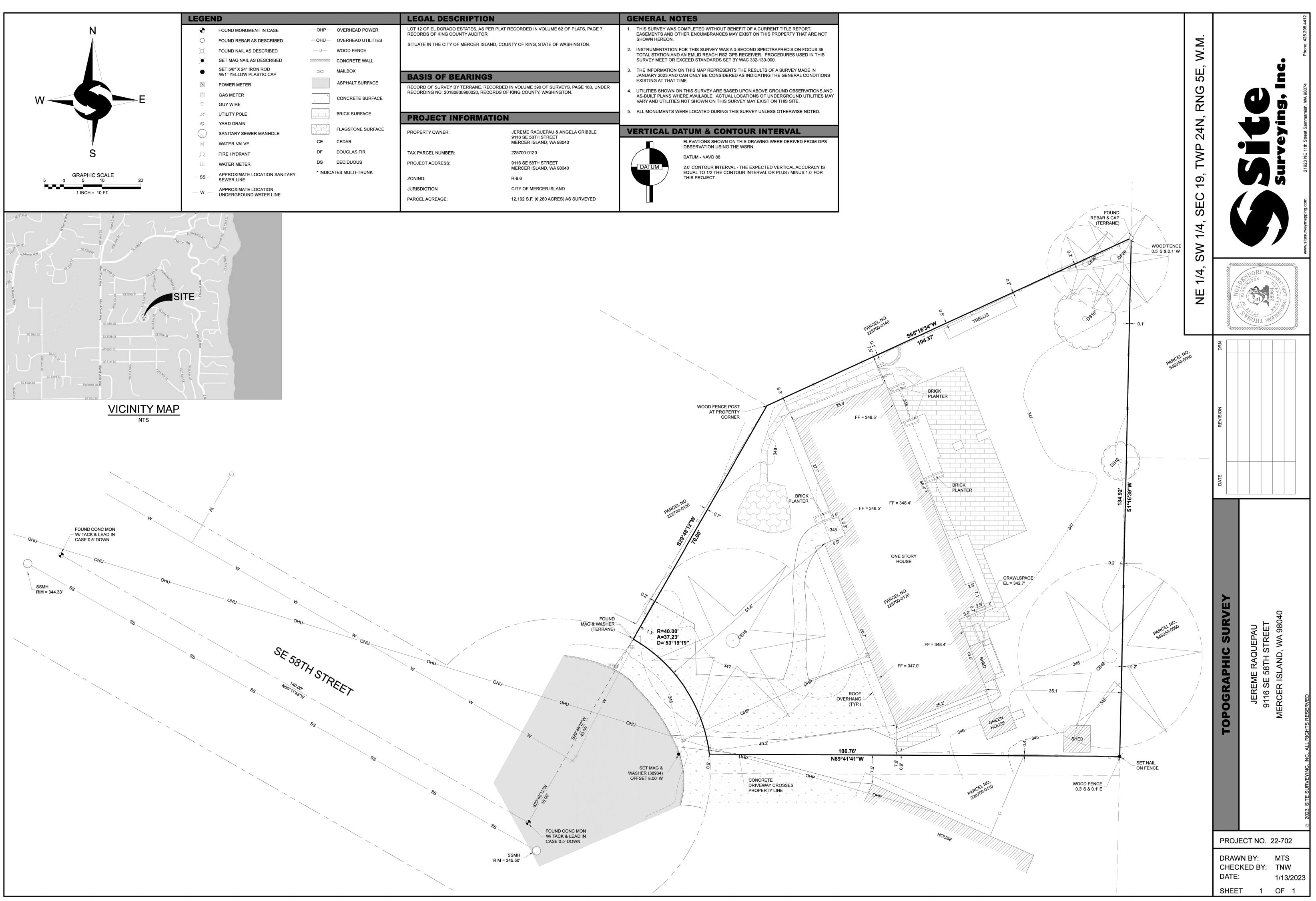


СНЕСКЕD: RWF REVISIONS:

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Nov 16, 2023





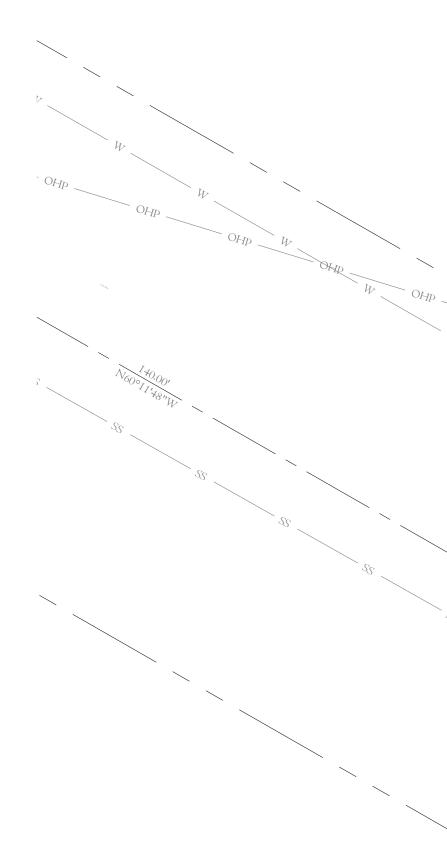
AL DESCRIPTION	GENERAL NOTES
OF EL DORADO ESTATES, AS PER PLAT RECORDED IN VOLUME 62 OF PLATS, PAGE 7, DS OF KING COUNTY AUDITOR;	 THIS SURVEY WAS COMPLETED WITHOUT BENEFIT OF A CURRENT TITLE REPORT. EASEMENTS AND OTHER ENCUMBRANCES MAY EXIST ON THIS PROPERTY THAT ARE NOT SHOWN HEREON.
IN THE CITY OF MERCER ISLAND, COUNTY OF KING, STATE OF WASHINGTON.	2. INSTRUMENTATION FOR THIS SURVEY WAS A 3-SECOND SPECTRAPRECISION FOCUS 35 TOTAL STATION AND AN EMLID REACH RS2 GPS RECEIVER. PROCEDURES USED IN THIS SURVEY MEET OR EXCEED STANDARDS SET BY WAC 332-130-090.
IS OF BEARINGS	 THE INFORMATION ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE IN JANUARY 2023 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
O OF SURVEY BY TERRANE, RECORDED IN VOLUME 390 OF SURVEYS, PAGE 163, UNDER DING NO. 20180830900020, RECORDS OF KING COUNTY, WASHINGTON.	4. UTILITIES SHOWN ON THIS SURVEY ARE BASED UPON ABOVE GROUND OBSERVATIONS AND AS-BUILT PLANS WHERE AVAILABLE. ACTUAL LOCATIONS OF UNDERGROUND UTILITIES MAY VARY AND UTILITIES NOT SHOWN ON THIS SURVEY MAY EXIST ON THIS SITE.
JECT INFORMATION	5. ALL MONUMENTS WERE LOCATED DURING THIS SURVEY UNLESS OTHERWISE NOTED.
TY OWNER:JEREME RAQUEPAU & ANGELA GRIBBLE 9116 SE 58TH STREET MERCER ISLAND, WA 98040ICEL NUMBER:228700-0120T ADDRESS:9116 SE 58TH STREET MERCER ISLAND, WA 98040R-9.6CTION:CTION:CITY OF MERCER ISLAND	VERTICAL DATUM & CONTOUR INTERVAL Image: Control of the structure of the stru

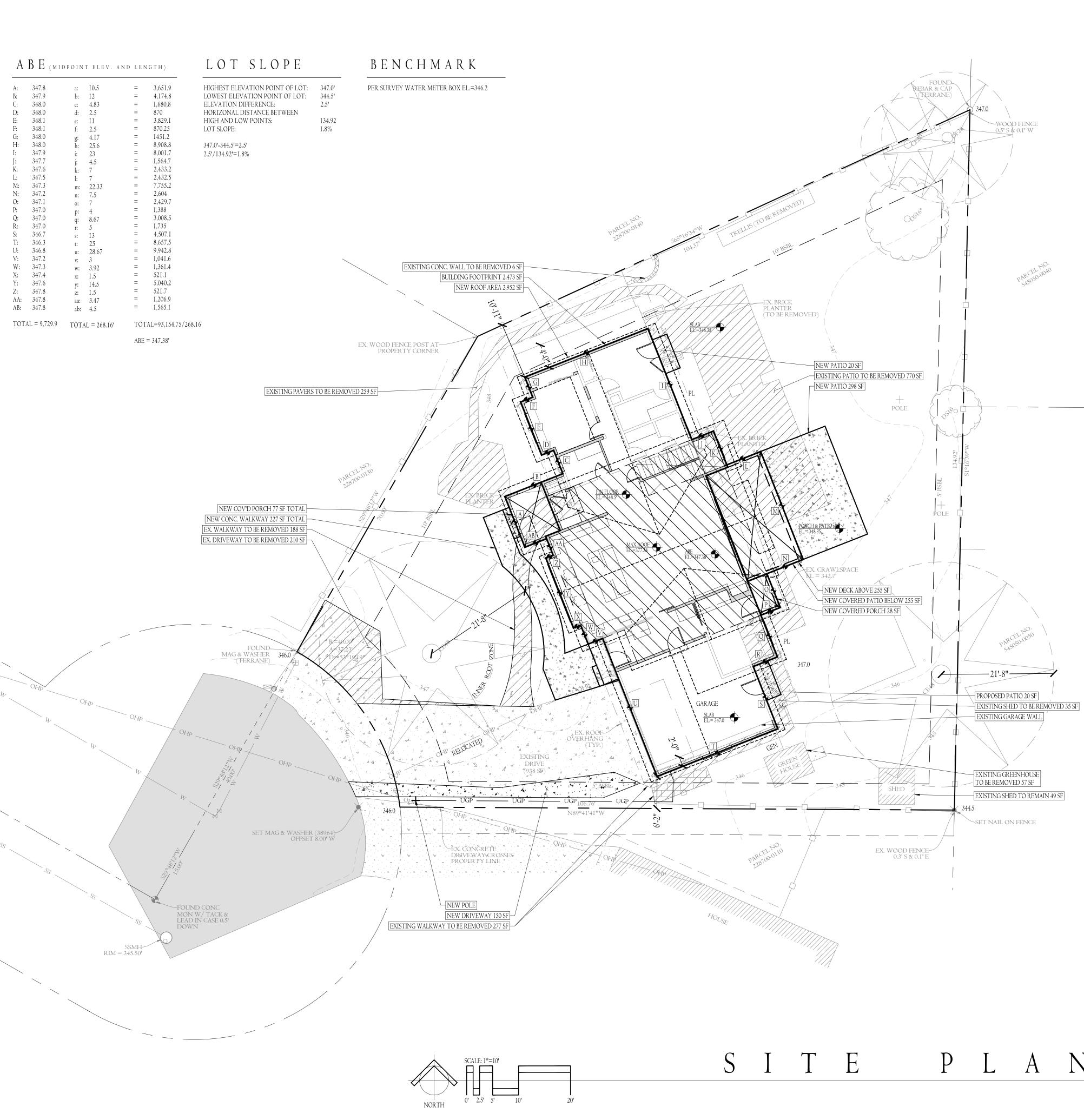
LOT COVERAGE (SEE SDEV)

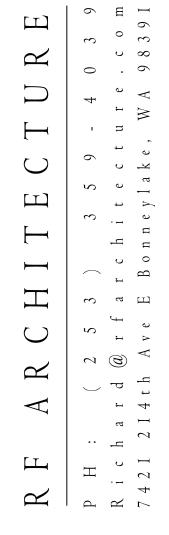
GROSS LOT AREA: NET LOT AREA: Allowed Lot Coverage Area: Allowed Lot Coverage:	12,192 SF 12,192 SF 4,877 SF 40% of Lot
EXISTING LOT COVERAGE:	
1. MAIN STRUCTURE ROOF AREA:	2,873 SF
2. ACCESSORY BLDG ROOF AREA:	141 SF
3. VEHICULAR USE:	938 SF
4. COV'D PATIOS/DECKS:	0 SF
5. TOTAL EXISTING LOT COVERAGE:	3,952 SF
TOTAL EXISTING LOT AREA REMOVED:	260 SF
PROPOSED ADJUSTMENTS FOR FLAG LOT:	0 SF
TOTAL NEW LOT COVERAGE:	
I. MAIN STRUCTURE ROOF AREA:	2,952 SF
2. ACCESSORY STRUCTURE ROOF AREA:	49 SF
3. VEHICULAR USE:	878 SF
4. COV'D PATIOS/DECKS:	360 SF
5. TOTAL NEW LOT COVERAGE:	4,239 SF
TOTAL PROJECT LOT COVERAGE AREA:	4,239 SF
PROPOSED LOT COVERAGE AREA:	34.8%

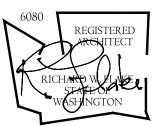
HARDSCAPE (SEE SDEV)

GROSS LOT AREA:	12,192 SF
NET LOT AREA:	12,192 SF
AREA BORROWED FROM LOT COVERAGE:	0 SF
ALLOWED HARDSCAPE AREA:	9% OF LOT
ALLOWED HARDSCAPE AREA:	1,097 SF
TOTAL EXISTING HARDSCAPE AREA:	
1. UNCOVERED DECKS:	0 SF
2. UNCOVERED PATIOS:	770 SF
3. WALKWAYS:	724 SF
4. STAIRS:	0 SF
5. ROCKERIES/RETAINING WALLS:	6 SF
6. TOTAL EXISTING HARDSCAPE AREA:	1,500 SF
TOTAL HARDSCAPE AREA REMOVED:	1,500 SF
TOTAL NEW HARDSCAPE AREA:	
I. UNCOVERED DECKS:	255 SF
2. UNCOVERED PATIOS:	338 SF
3. WALKWAYS:	227 SF
4. STAIRS:	0 SF
5. ROCKERIES/RETAINING WALLS:	0 SF
6. TOTAL NEW HARDSCAPE AREA:	820 SF
TOTAL PROJECT HARDSCAPE AREA:	820 SF
TOTAL PROJECT HARDSCAPE AREA:	6.7%
·	









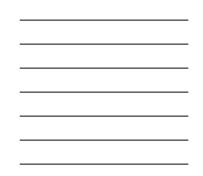
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RWF REVISIONS:



Nov 16, 2023

CITY OF MERCER ISLAND

COMMUNITY PLANNING & DEVELOPMENT 9611 SE 36TH STREET | MERCER ISLAND, WA 98040 PHONE: 206.275.7605 | <u>www.mercergov.org</u>



MERCER ISLAND TREE INVENTORY & REPLACEMENT SUBMITTAL INFORMATION

PROJECT INFORM	ATION			
Property Owner				
Name:	Jeremy & Angela Raquepau			
Site Address or Parcel Number:	9116 SE 58th St			
Project Contact Name:	Richard Flake			
Contact Email Address:	richard@rfarchitecture.com			
Contact Phone Number:	(253) 359-4039			
EXCEPTIONAL TRI	ES			
value constitutes species, condition, a diameter of moi the Exceptional Tr	means a tree or group of trees that because of its unique historical, ecol an important community resource. A tree that is rare or exceptional b cultural/historical importance, age, and/or contribution as part of a tree than 36 inches, or with a diameter that is equal to or greater than the ee Table shown in MICC 19.16 under Tree, Exceptional. Deer of trees for each category and the tree identification numbers from t	y virtue of i e grove. Tre e diameter l	its size, es with isted in	
Number of trees 3		2	·	
List tree numbers				
Number of trees 2 List tree numbers	24" or greater (including 36" or greater) #1, #2, #6	3		
	rom Exceptional Tree Table (MICC 19.16)	3		
List tree numbers	(2) Western Red Cedar: #1 and #2, (1) Douglas Fir #6			
LARGE REGULATE	D TREES			
Large Regulated 1 definition of an Ex	T <u>rees</u> - means any tree with a diameter of 10 inches or more, and any tr ceptional Tree.	ree that me	ets the	
Number of Large	Regulated Trees on site	6	(A)	
List tree numbers	1,2,3,4,5,6			
Number of Large List tree numbers	Regulated Trees on site proposed for removal N/A	0	(B)	
Percentage of tre	es to be retained ((A-B)/Ax100) note: must be at least 30%	100	%	
RIGHT OF WAY TH	REES			

<u>Right of Way Trees</u>- means a tree that is located in the street right of way adjacent to the project property. Number of Large Regulated Trees in right of way List tree numbers: N/A Number of Large Regulated Trees in right of way proposed for removal List tree numbers: N/A Reason for removal: N/A N/A TREE REPLACEMENT

Tree replacement- removed trees must be replaced based on the ratio in the table below. Replacement trees shall be conifers at least six feet tall and or deciduous at least one and one-half inches in diameter at base.

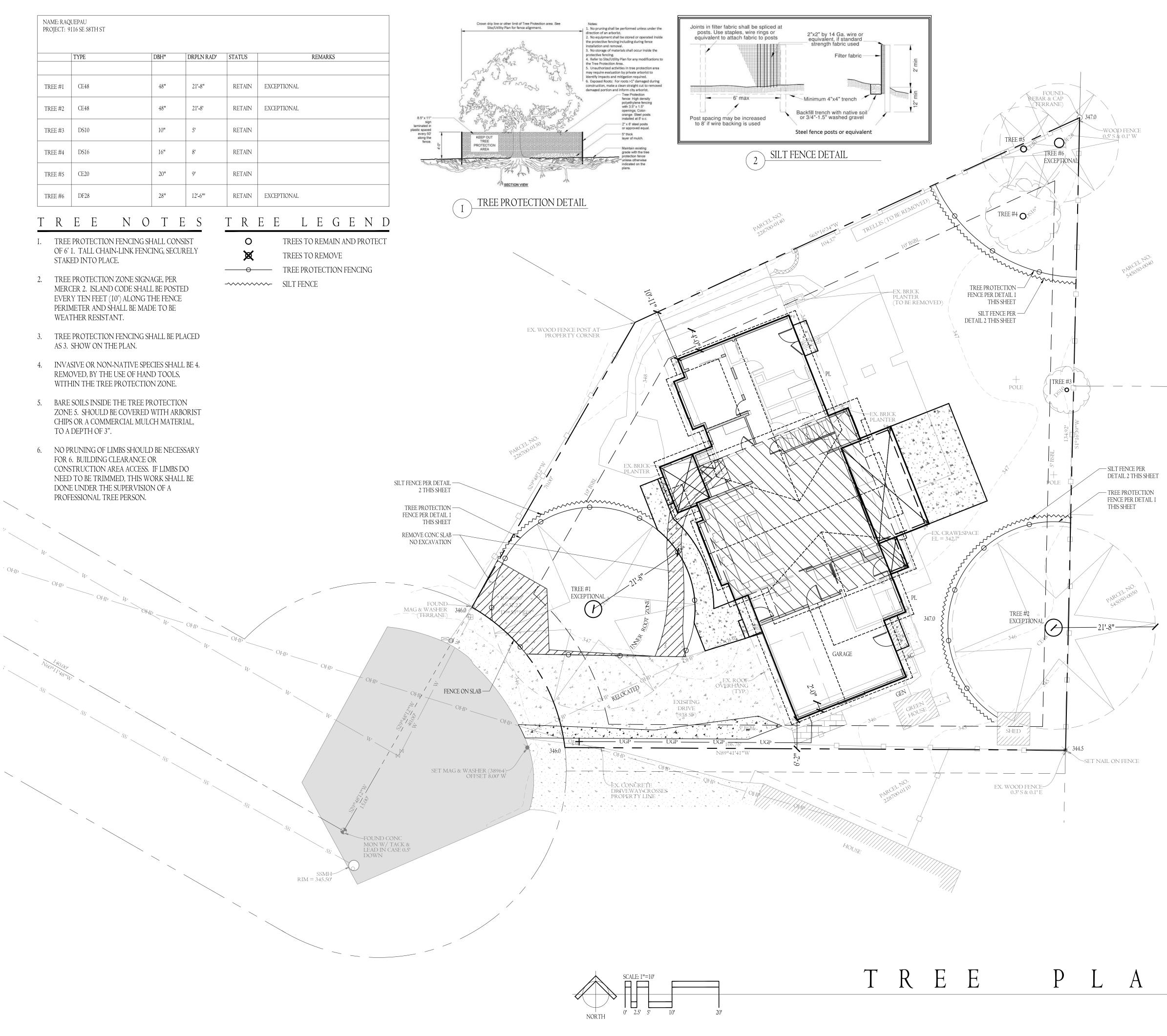
			Number of Tree
	Tree	Number of	Required for
Diameter of Removed Tree (measured 4.5'	replacement	Trees Proposed	Replacement Based
above ground)	Ratio	for Removal	on Size/Type
Less than 10"*	1	0	
10" up to 24"	2	0	
Greater than 24" up to 36"	3	0	
Greater than 36" and any Exceptional Tree	6	0	
	0		

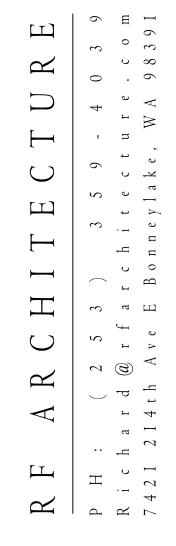
*no replacement tree is needed if the tree fits all of the following; Less than 10 inches in diameter, not an exceptional tree, and not a replacement tree from another tree permit. *

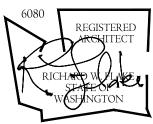
DBH" TYPF TREE #I CE48 48" 48" TREE #2 CE48 10" TREE #3 DSI0 16" TREE #4 DS16 20" TREE #5 CE20 28" TREE #6 DF28

STAKED INTO PLACE.

- MERCER 2. ISLAND CODE SHALL BE POSTED EVERY TEN FEET (10') ALONG THE FENCE PERIMETER AND SHALL BE MADE TO BE WEATHER RESISTANT.
- AS 3. SHOW ON THE PLAN.
- REMOVED, BY THE USE OF HAND TOOLS, WITHIN THE TREE PROTECTION ZONE.
- CHIPS OR A COMMERCIAL MULCH MATERIAL, TO A DEPTH OF 3".
- FOR 6. BUILDING CLEARANCE OR CONSTRUCTION AREA ACCESS. IF LIMBS DO NEED TO BE TRIMMED, THIS WORK SHALL BE DONE UNDER THE SUPERVISION OF A PROFESSIONAL TREE PERSON.







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RWF REVISIONS:

Nov 16, 2023 A-1.2

CITY OF MERCER ISLAND

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Inspection Requests: Online: <u>www.mybuildingpermit.com</u> VM: 206.275.7730

SITE DEVELOPMENT INFORMATION Worksheet for single family residential development

PROJECT INFOR	MATION					
Permit Number:		Parcel Number:	2287000120			
Site Address:	9116 SE 58TH STREET	Phone Number:	(206) 349-4272			
Owner Name:	JEREME RAQUEPAU	Date:	NOV 2, 2023			
Signature & pho	ne number of Individual who comple	ted this worksheet:				
	R Flake	(253) 359-4039				
	Signature		Phone Number	r		
GENERAL INFOR	MATION					
	ees be removed as a result of this dev with diameter of greater than or equ		Yes		No	
Do you have an	Accessory Dwelling Unit?	New ADU	Existing ADU		No	V
Will you be addi	ng air conditioning to the proposed c	levelopment?	Yes	\checkmark	No	
What is the total square footage of all proposed decks (covered and uncovered)on the property?N/ASquare Feet						
This is a worksheet and is not a substitute for the Mercer Island Development Regulations. Please consult the Mercer Island City Code. The City may require additional information to be supplies to document compliance						

with regulations. LOT SLOPE

According to the Mercer Island City Code, slope is a measurement of the average incline of the lot or other piece of land calculated by subtracting the lowest elevation of the property from the highest elevation and dividing the resulting number by the shortest horizontal distance between these two points. The resulting product is multiplied by 100. LOT SLOPE CALCULATIONS

Highest Elevation Point of Lot:	347.0	Feet
Lowest Elevation Point of Lot:	344.5	Feet
Elevation Difference:	2.5	Feet
Horizontal Distance Between High and Low Points:	134.92	Feet
Lot Slope*	1.8	%
*Lot slope is the elevation difference div	ided by horizontal distance multiplied by 100.	

Lot slope calculations shown on Sheet # A-1.1

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LOT COVERAGE

For single family residential development, "lot coverage" is the area of a lot that may be covered by a combination of the buildings and vehicular driving surfaces. Lot coverage is based on "net lot area". Net lot area is the size of the lot minus the area within any access easements on the property that do not provide access to the home on the subject lot. The maximum lot coverage for a specific lot is based upon the lots slope (see above). The area of the lot that cannot be used for lot coverage is "required landscaping area"; the landscaping area is typically improved with either hardscape (see below) or softscape. **Please note:** Lot coverage is not the same as impervious surface calculations used for drainage review.

Lot Slope	Maximum Lot Coverage (House, driving surfaces, and accessory buildings)	Required Landscaping Area
Less than 15%	40%	60%
15% to less than 30%	35%	65%
30% to 50%	30%	70%
Greater than 50% slope	20%	80%

ADJUSTMENTS

A one-time reduction in the required landscaping area and an increase in the allowed maximum lot coverage is allowed if:

- A. The total reduction in required landscaping area shall not exceed 5%, and the total increase in maximum lot coverage shall not exceed 5%; and B. The reduction in required landscaping area is associated with:
- 1. A development proposal that will result in a single-story dwelling with wheelchair accessible entry, and may also include a single-story accessory building; or
- 2. A development proposal on a flag lot that, after optimizing driveway routing and minimizing driveway width, requires a driveway that is more than the 25% of the allowed lot coverage. The allowed reduction in the required landscaping area and increase in the maximum lot coverage shall not exceed 5% or the area of the driveway in excess of 25% of the lot coverage, whichever is less. For example, a development proposal with a driveway that occupies 27% of the allowed lot coverage, may increase the total lot coverage by 2%

C. A recorded notice on title, covenant, easement, or other documentation in a form approved by the city, shall be required. The notice on title or other documentation shall describe the basis for the reduced landscaping area an increase in lot coverage. Ves 🗆 No 🗖 Does this project include a proposed adjustment

Joe	s this	project include a proposed adjustment?		res		NO	
OT	COVE	RAGE CALCULATIONS					
A.	Gros	ss Lot Area	12,192		Squa	are Fe	et
В.	Net	Lot Area	12,192		Squa	re Fe	et
C.	Allo	wed Lot Coverage Area	4,877		Squa	are Fe	et
D.	Allo	wed Lot Coverage	40		% of	Lot	
Ε.	Exist	ing Lot Coverage:			_		
	1.	Main Structure Roof Area	2,873		Squa	ire Fe	et
	2.	Accessory Building Roof Area	141		Squa	re Fe	et
	3.	Vehicular Use (driveway, paved access easements [portion used by the lot for access],			_		
		parking	938		Squa	are Fe	et
	4.	Covered Patios and Covered Decks	0		_ Squa	ire Fe	et

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- G. Proposed Adjustment for Singl
- H. Proposed Adjustment for Flag I. Total New Lot Coverage Area:
- 1. Main Structure Roof Area 2. Accessory Structure Roof
- 3. Vehicular Use (drive easement [portion used
- parking) 4. Covered Patios and Cove
- 5. Total New Lot Coverage J. Total Project Lot Coverage Area
- K. Proposed Lot Coverage Area =

Lot coverage calculations shown on HARDSCAPE

Up to 9% of the net lot area may consist of hardscape areas. For single family residential development, hardscape is the solid, hard, elements or structures that are incorporated into landscaping. The hardscape includes, but is not limited to, structures, paved areas, stairs, walkways, decks, patios, rockeries and retaining walls, and similar constructed elements that do not have a roof. The hardscape within the landscaping area consists of materials such as wood, stone, concrete, gravel, permeable pavements or pavers, and similar materials. Hardscape does not include solid, hard elements or structures that are covered by a minimum of two feet of soil intended for softscape (for example, a septic tank covered with at least two feet of soil and planted shrubs is not hardscape). The hardscape does not include driving surfaces or buildings. In addition, unused lot coverage may also be improved with hardscape.

HARDSCAPE CALCULATIONS

- A. Gross Lot Area
- B. Net Lot Area C. Area Borrowed from Lot Cover
- D. Allowed Hardscape Area = 9%
- E. Allowed Hardscape Area
- F. Total Existing Hardscape Area: 1. Uncovered Decks
- 2. Uncovered Patios
- 3. Walkways
- 4. Stairs
- 5. Rockeries and Retaining 6. Other _
- 7. Total Existing Hardscape
- (F1+F2+F3+F4+F5+F6) G. (Total Hardscape Area Remove
- H. Total New Hardscape Area:
- 1. Uncovered Decks 2. Uncovered Patios
- 3. Walkways
- 4. Stairs
- 5. Rockeries and Retaining

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- 6. Other 7. Total New Hardscape Are
- (H1+H2+H3+H4+H5+H6)
- I. Total Project Hardscape Area =
- J. Total Project Hardscape Area = Hardscape calculations shown on Pla

GROSS FLOOR AREA (GFA)

For single family residential development, GFA is the total square footage of floor area, bounded by the exterior faces of the building(s). The GFA includes the floor area of the main building, accessory buildings, garages, attached roofed decks on the second or third story of a single family home, staircases, etc. The GFA does not include second- or third-story uncovered decks or uncovered rooftop decks. The GFA includes the floor area of the main building, accessory buildings, garages, attached roofed decks on the second or third story of a single family home, staircases, etc. The GFA does not include second- or third-story uncovered decks or uncovered rooftop decks. GFA does not include any portion of a building that is below ground (refer to page 6).

Allowed GFA

- A. R-8.4: 5,000 square feet or 40% of the lot area, whichever is less.
- B. R-9.6: 8,000 square feet or 40% of the lot area, whichever is less.
- D. R-15: 12,000 square feet or 40% of the lot area, whichever is less.
- lot area.

GFA Modifiers

The GFA calculation for a floor with a ceiling height of 12 to 16 feet, is 150% of the area of the floor. The GFA calculation for a floor with a ceiling height of more than 16 feet, is 200% of the area of the floor. The GFA calculation for a stair case shall be counted as a single floor for the first two stories accessed by the stair case. For each additional story above two stories, the stair case shall count as a single floor area. *Floor plans shall identify rooms with a ceiling height of more than 12 feet and rooms with a ceiling height of more than 16 feet.

All building areas must be identified and labeled on the site plan. Please distinguish all new construction from existing areas on both your drawing and in the calculations you complete below. Will you be excluding a portion of the basement floor area? Yes 🗌 No 🗌

If yes, you must provide basement floor area calculations, with your building permit application, that show how you determined what portion of the basement will be excluded. Refer to page 6. **GROSS FLOOR AREA CALCULATIONS**

Building Area Existing Upper Floor Main Floor 1,765 Gross Basement Area Garage/ Carport Total Floor Area Accessory Buildings

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ge Area (E1+E2+E3+E4)	3,952	Square Feet
oved)	260	Square Feet
le Story (Area)		Square Feet
Lot		Square Feet
а	2,952	Square Feet
f Area	49	Square Feet
eway, paved access		
by the lot for access],		
	878	Square Feet
ered Decks	360	Square Feet
Area (I1 + I2 + I3 + I4)	4,239	
ea = (E5 - F) + I5	4,239	Square Feet
(J/B) x 100	34.8	% of Lot
Plan Sheet #	A-1.1	

	10 100	Caucas Foot
	12,192	Square Feet
	12,192	Square Feet
rage	0	Square Feet
of lot area + C	9	% of Lot
	1,097	Square Feet
:		
	0	Square Feet
	770	Square Feet
	724	Square Feet
	0	Square Feet
Walls	6	Square Feet
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e Area		
	1,500	Square Feet
red)	1,500	Square Feet
	255	Square Feet
	338	Square Feet
	227	Square Feet
	0	Square Feet
Walls	0	Square Feet
		3
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		Square Feet
ea		
l .	820	Square Feet
= (F7 - G) + H7	820	Square Feet
= (I/B)x100	6.7	% of Lot
lan Sheet #	A-1.1	

C. R-12: 10,000 square feet or 40% of the lot area, whichever is less.

E. All zones: Lots with a lot area of 7,500 square feet or less, the lesser of 3,000 square feet or 45% of the

F. All zones: If an accessory dwelling unit is proposed, the 40% allowed GFA may be increased by the lesser of 5 percentile points, or the floor area of the accessory dwelling unit. Provided, this allowance shall not result in a GFA of more than 4,500 square feet or 45% of the lot area, whichever is less.

g Area	Remove	d Area	New/Additio	on Area	Tot	al
Sq. Ft.	0	Sq. Ft.	1,131	_ Sq. Ft.	1,131	Sq. Ft.
Sq. Ft.	102	Sq. Ft.	366	Sq. Ft.	2,580	Sq. Ft.
Sq. Ft.		Sq. Ft.		Sq. Ft.	0	Sq. Ft.
Sq. Ft.		Sq. Ft.		Sq. Ft.	435	Sq. Ft.
Sq. Ft.		Sq. Ft.		Sq. Ft.	4,146	Sq. Ft.
Sq. Ft.		Sq. Ft.		Sq. Ft.	49	Sq. Ft.

12/2020

Accessory Dwelling Unit		Sq. Ft.		Sq. Ft.			Sq. Ft.		Sq. Ft.
2^{nd} & 3^{rd} Story Roofed		_							
Decks		_ Sq. Ft.		Sq. Ft.	·		Sq. Ft.		Sq. Ft.
Basement Area		Sq. Ft.		Sq. Ft.			Sq. Ft.		Sq. Ft.
Excluded		_							
150% GFA Modifier*		Sq. Ft.		Sq. Ft.			Sq. Ft.		Sq. Ft.
(main and upper floor									
x2)		_			431			431	
200% GFA Modifier*		Sq. Ft.		Sq. Ft.			Sq. Ft.		Sq. Ft.
(main and upper floor									
x2)					270			270	
Staircase GFA Modifier*		Sq. Ft.		Sq. Ft.			Sq. Ft.		Sq. Ft.
(x2 for a three story									
staircase, x3 for a four									
story staircase) TOTAL Building Area	2,249	_ Sq. Ft.	102	Sa Et	2,198		 Sq. Ft.	4,847	 Sq. Ft.
*Enter the actual room a		_ 3q. rt.	102	34. г.	2,190		эч. гі.	4,047	Sq. Fl.
	ieu								
A. Lot Area				_12	,192(S	URVEY)		_ Square	Feet
B. Zone R-8.4		R-9.	6 🔽	R	-12		R-15	Ľ]
C. Allowed Gross Floo	r Area (re	efer to "al	lowed GFA")	4,8	377			_ Square	Feet
D. Allowed Gross Floo	r Area			40				_ % of Lo [•]	t
E. Proposed Gross Flo	or Area			4,8	847			_ Square	Feet
F. Proposed Gross Flo	or Area			39	.8			_ % of Lo [•]	t
Gross floor area calculation	ons found	d on Plan	Sheet #	A-	1.1 - A-3	3.1			
Basement exclusion calcu	lations f	ound on P	lan Sheet #	N//	Δ				
			ian enect ii		-				

BUILDING HEIGHT

All building height measurements must be taken from existing grade or finished grade, whichever is lower Existing grade refers to ground surface as it exists at the proposed building perimeter before grading or other alterations take place. Finished grade refers to the ground surface as it exists at the building perimeter after grading or other alterations take place.

Single family new construction and additions are limited to a maximum height of 30 ft. above the Average Building Elevation (ABE) – see section on next pages. The height is measured to the top of the structure. On the downhill side of a sloping lot, the wall façade height is also limited to a height of 30 feet measured from existing or finished grade (whichever is lower) to the top of the exterior wall facade supporting the roof framing, rafters, trusses, etc.

A topographic survey is required at permit application when the proposed building height is within 2 ft. of the allowable building height. The survey must include a statement that attests the average contour elevation within the vicinity of the building footprint to be accurate within 6 inches vertically and horizontally from actual elevations.

BUIL	DING HEIGHT CALCULATIONS	
^	Average Duilding Elevation (ADE) calculations located on shoot #	•

Α.	Average Building Elevation (ABE) calculations located on sheet #:	A-1.1	
В.	Allowable Building Height (ABE + 30 ft.)	377.38	Feet
C.	Proposed Building Height	30	Feet
D.	Benchmark Elevation*	346.2	Feet
Ε.	Describe Benchmark Location (must be undisturbed throughout project)	WATER METER	BOX PER SURVEY

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F. Sloping lot (Downhill side)- maximum height of top of exterior wall facade above lowest existing grade (30-ft max) Feet G. ABE and Allowable Building Height Shown on elevations plan sheet # A-6.1 - A-7.1

H. Topo-survey Accuracy Attested on Plan Sheet # A-1.0

Note: survey must attest to accuracy when proposed building height is within 2 feet of the allowable building height. Please see page 8 for more information on calculating Average Building Elevation (ABE) *The benchmark elevation is a fixed elevation point on or off site that will not be disturbed during development activity and is used to verify the final building height.

BASEMENT FLOOR AREA CALCULATION

The Mercer Island Development Code allows for the portion of the basement floor area which is below grade to be excluded from the Gross Floor Area. That portion of the basement which will be excluded is calculated as shown:

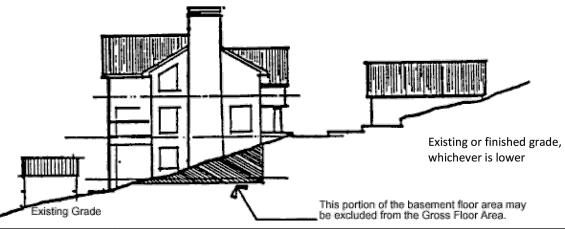
Portion of Excluded Basement Floor Area = Total Basement Area x

Σ (Wall Segment Coverage x Wall Segment Length)

Where the terms are defined as follows

Total Basement Area:	The total amount of all basement floor area.
Wall Segment	The portion of an exterior wall below existing or finished grade, whichever is lower. It is
Coverage:	expressed as a percentage. Refer to example below.
Wall Segment Length:	The horizontal length of each exterior wall in feet.

Total of all Wall Segment lengths



EXAMPLE OF BASEMENT FLOOR AREA CALCULATION

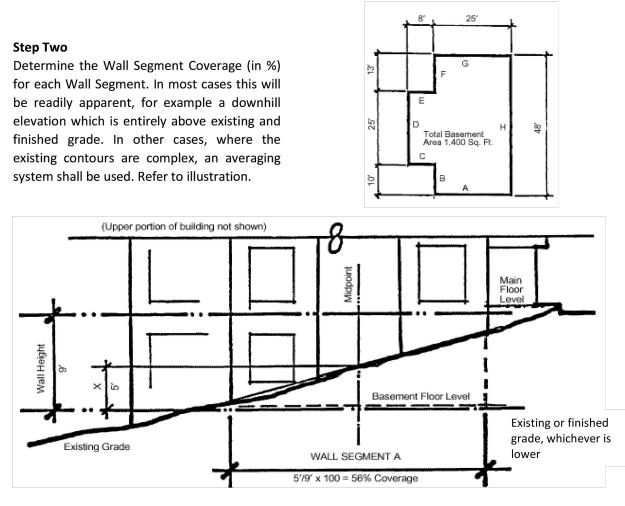
This example illustrates how a portion of the basement floor area may be excluded from the Gross Floor Area. In order to complete this example, the following information is needed:

a. A topographic map of the existing (e) grades and showing proposed finished (f) grades.

b. Building plans showing dimensions of all exterior wall segments and floor areas. c. Building elevations showing the location of existing and finished grades in relation to basement level.

Step One

Determine the number and lengths of the Wall Segments.



Step Three

Multiply each Wall Segment Length by the percentage of each Wall Segment Coverage and add these results together. Divide that number by the sum of all Wall Segment Lengths. This calculation will result in a percentage of basement wall which is below grade. (This calculation is most easily completed by compiling a table of the information as illustrated below.)

Wall Segment	Length x	Coverage=	Result
A	25'	56%	14%
В	10'	0%	0%
В	8'	0%	0%
D	25'	0%	0%
E	8'	0%	0%
F	13'	0%	0%
G	25'	60%	15%
н	48'	100%	48%
Totals	162'	NA	77%

Step Four

Multiply the Total Basement Floor Area by the above percentage to determine the Excluded Basement Floor Area. Portion of Excluded Basement Floor Area Calculation below

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1,400 Sq. Ft.x (25' x 56% + 10' x 0% . . . 25' x 60% + 48' x 100%)

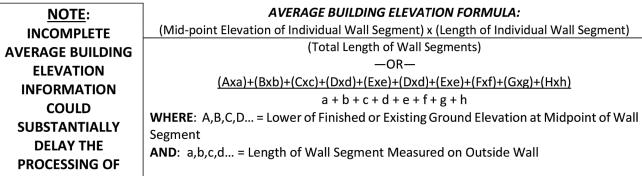
162'

= 1,400 Sq. Ft. x 47.53%

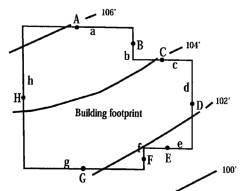
= 665.42 Sq. Ft. Excluded from the Gross Floor Area

CALCULATING AVERAGE BUILDING ELEVATION (ABE)

No part of a structure may exceed 30 feet in height above the "Average Building Elevation" to the top of the structure, except that on the downhill side of a sloping lot the structure shall not extend to a height greater than 30 feet measured from existing or finished grade to the top plate of the roof; provided the roof ridge does not exceed 30 feet in height above the "Average Building Elevation." ABE is defined as: The elevation established by averaging the elevation at existing or finished grade, whichever is lower, at the center of all exterior walls of the completed building.



YOUR APPLICATION



174'

IDPOINT E	LEVATION	WALL SEGME	NT LENGTH
A =	105.9 feet	a =	30 feet
B =	104.7 feet	b =	9 feet
C =	103.7 feet	c =	17 feet
D =	102.7 feet	d =	25 feet
E =	101.6 feet	e =	13 feet
F =	101.7 feet	f =	6 feet
G =	102.2 feet	g =	34 feet
H =	104.5 feet	h =	40 feet

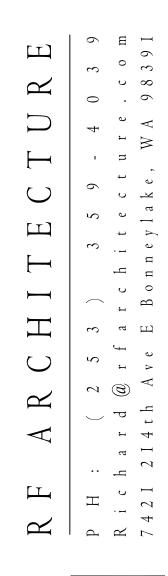
ABE CALCULATION:

(105.9)(30)+(104.7)(9)+(103.7)(17)+(102.2)(25)+(101.6)(13)+(101.7)(6)+(102.2)(34)+(104.5)(40)30 + 9 + 17 + 25 + 13 + 6 + 34 + 40 18023' = 103.6' Average Building Elevation (ABE)

NOTE: This example is not to scale. Site plans submitted to the building department must be to scale.

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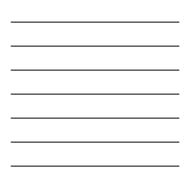


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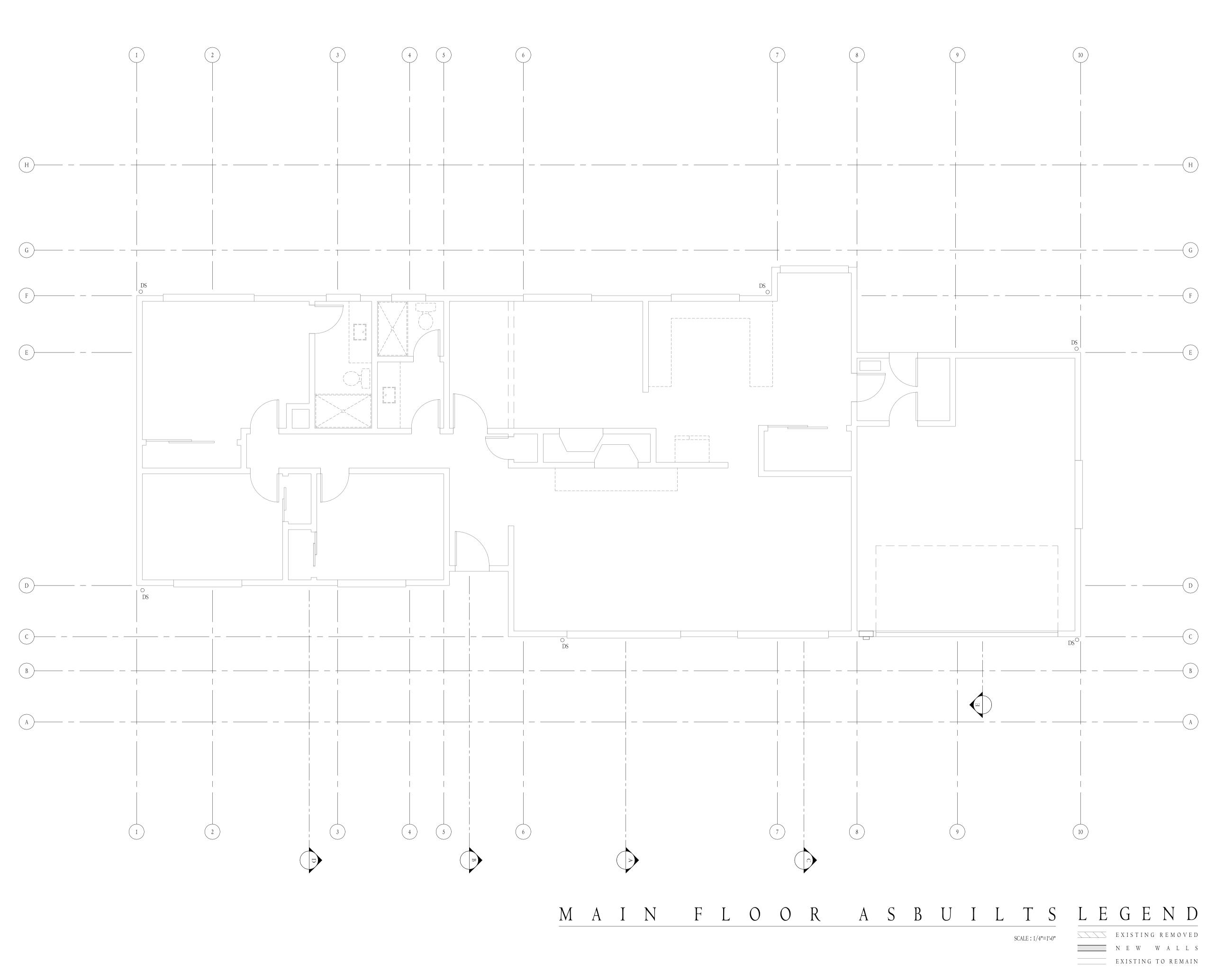
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Nov 16. 2023



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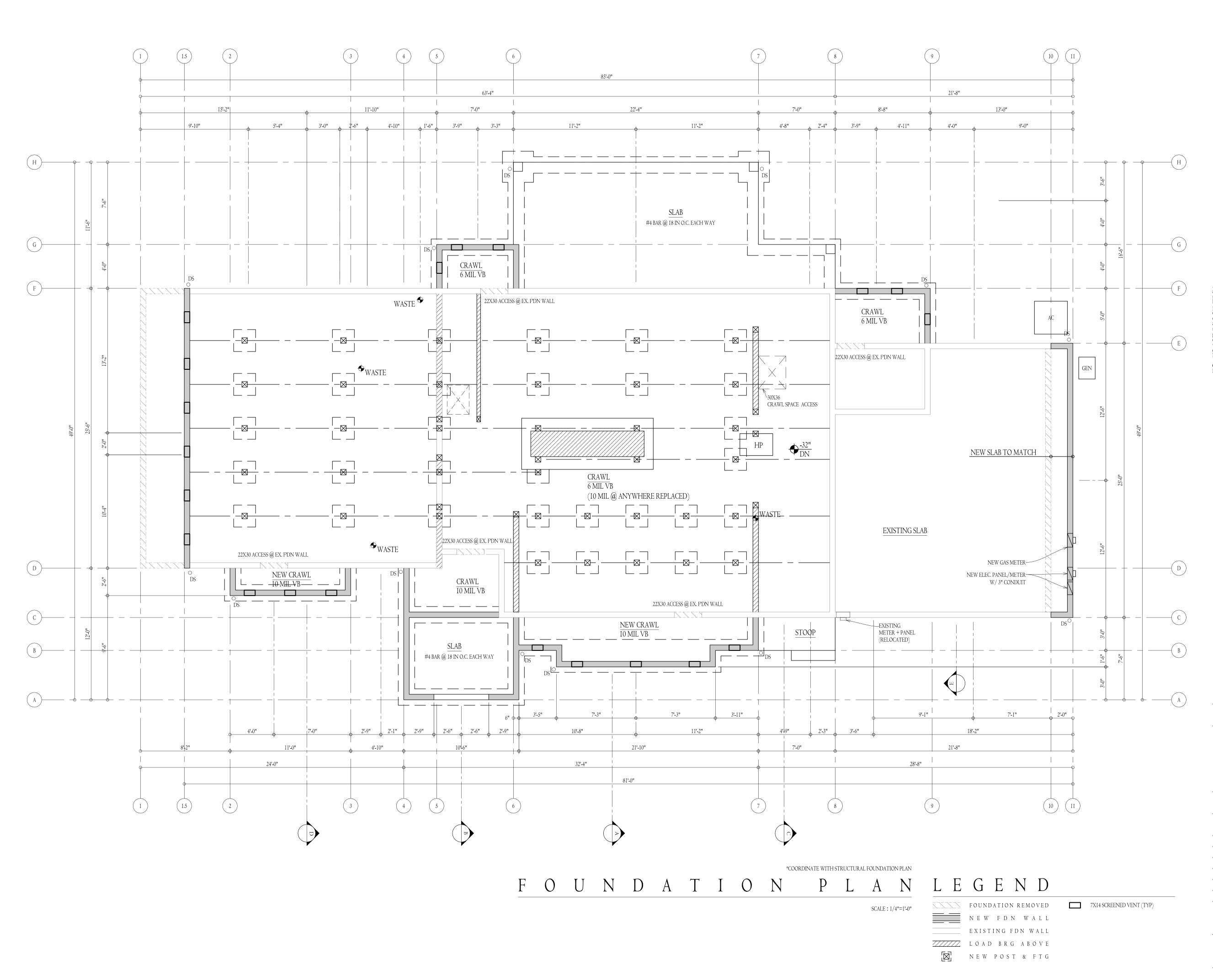
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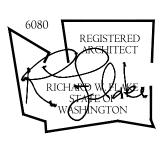
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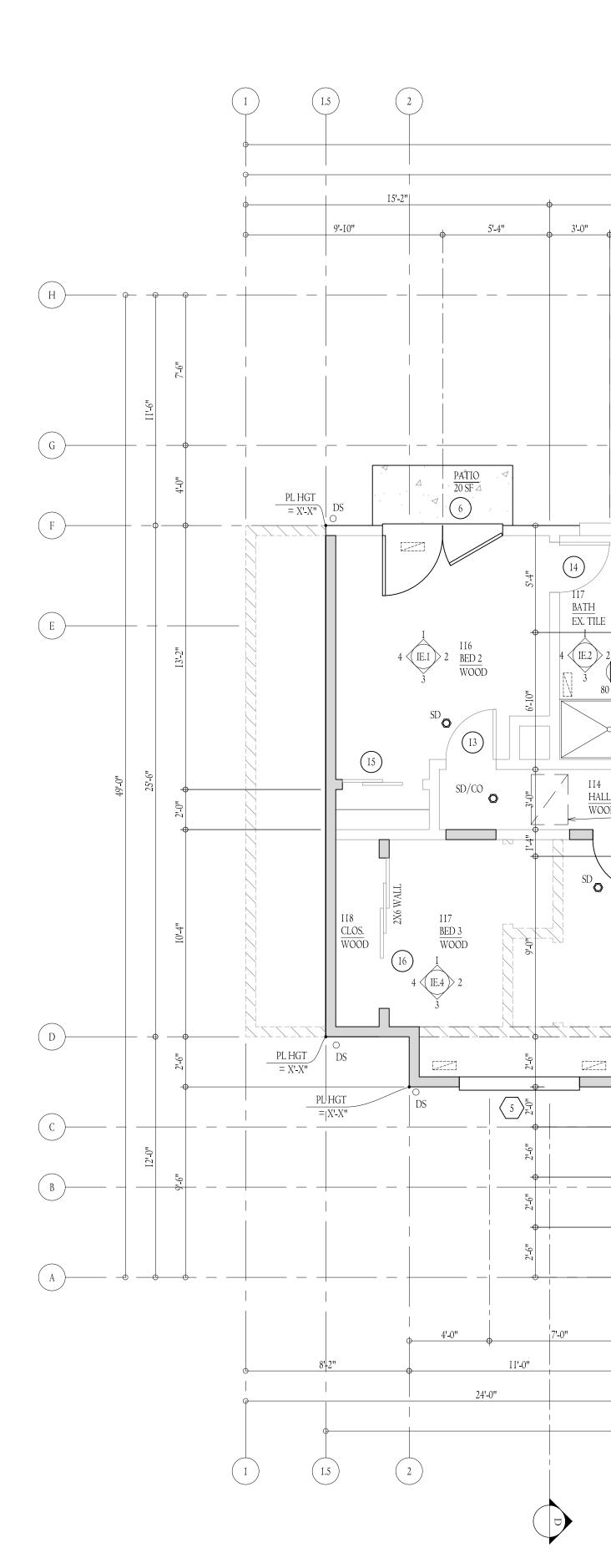
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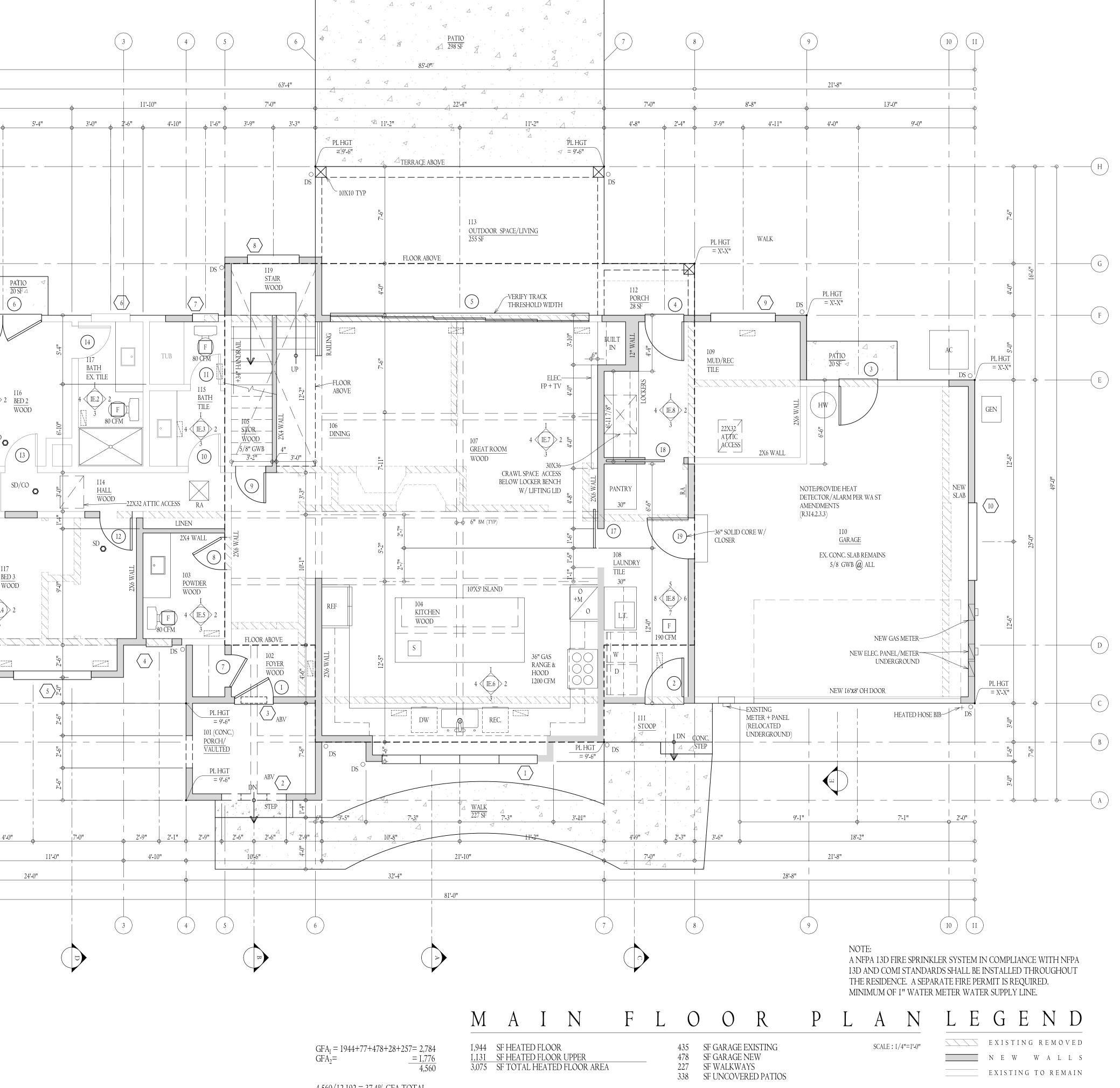
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Sep 07, 2023

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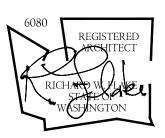


11'-0"



4,560/12,192 = 37.4% GFA TOTAL

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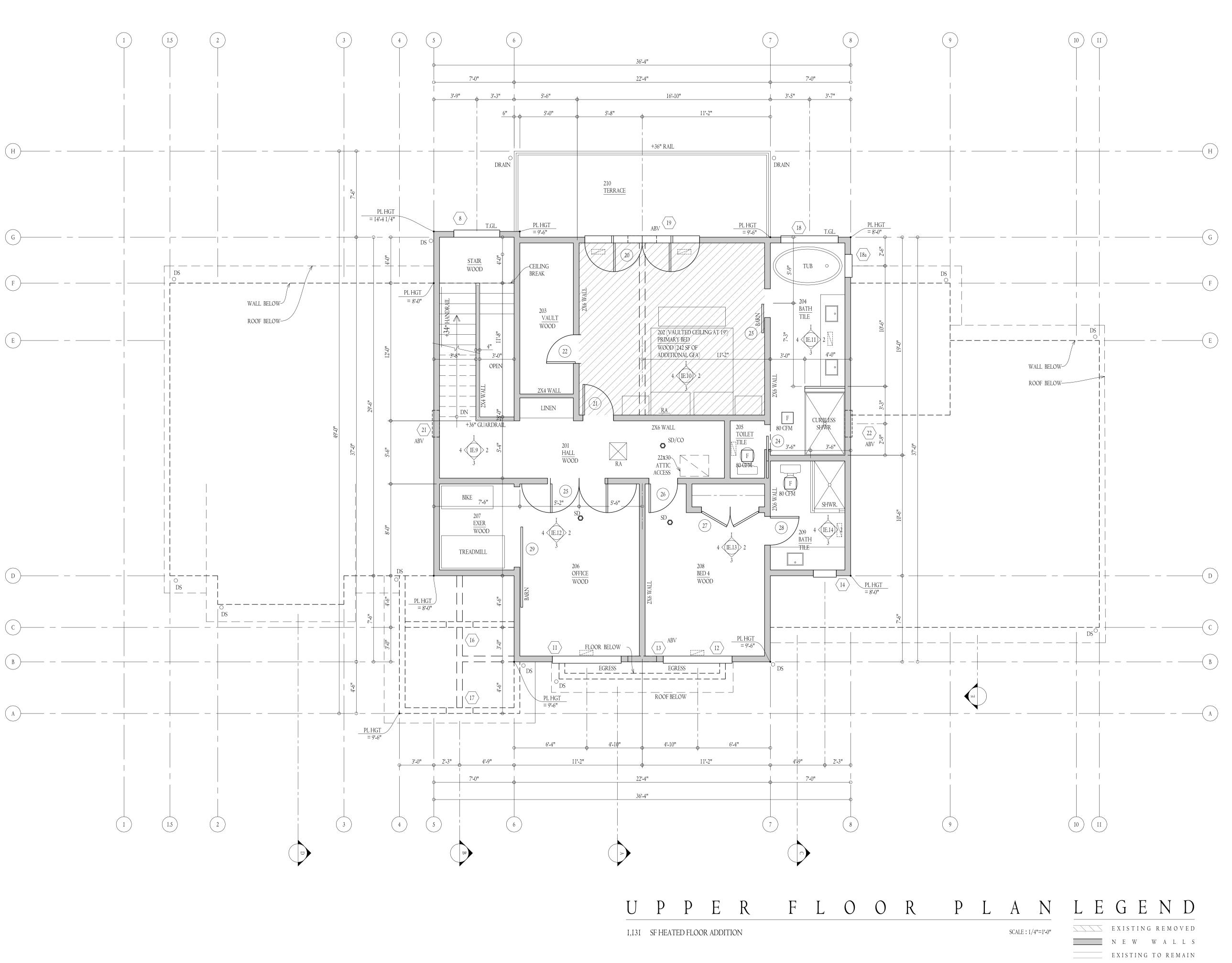


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Oct 30, 2023

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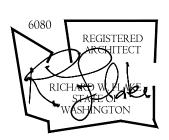


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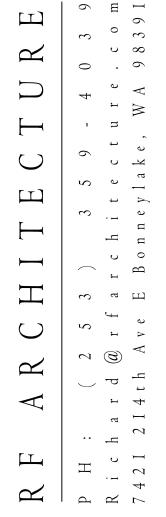
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Sep 07, 2023 A-5.1







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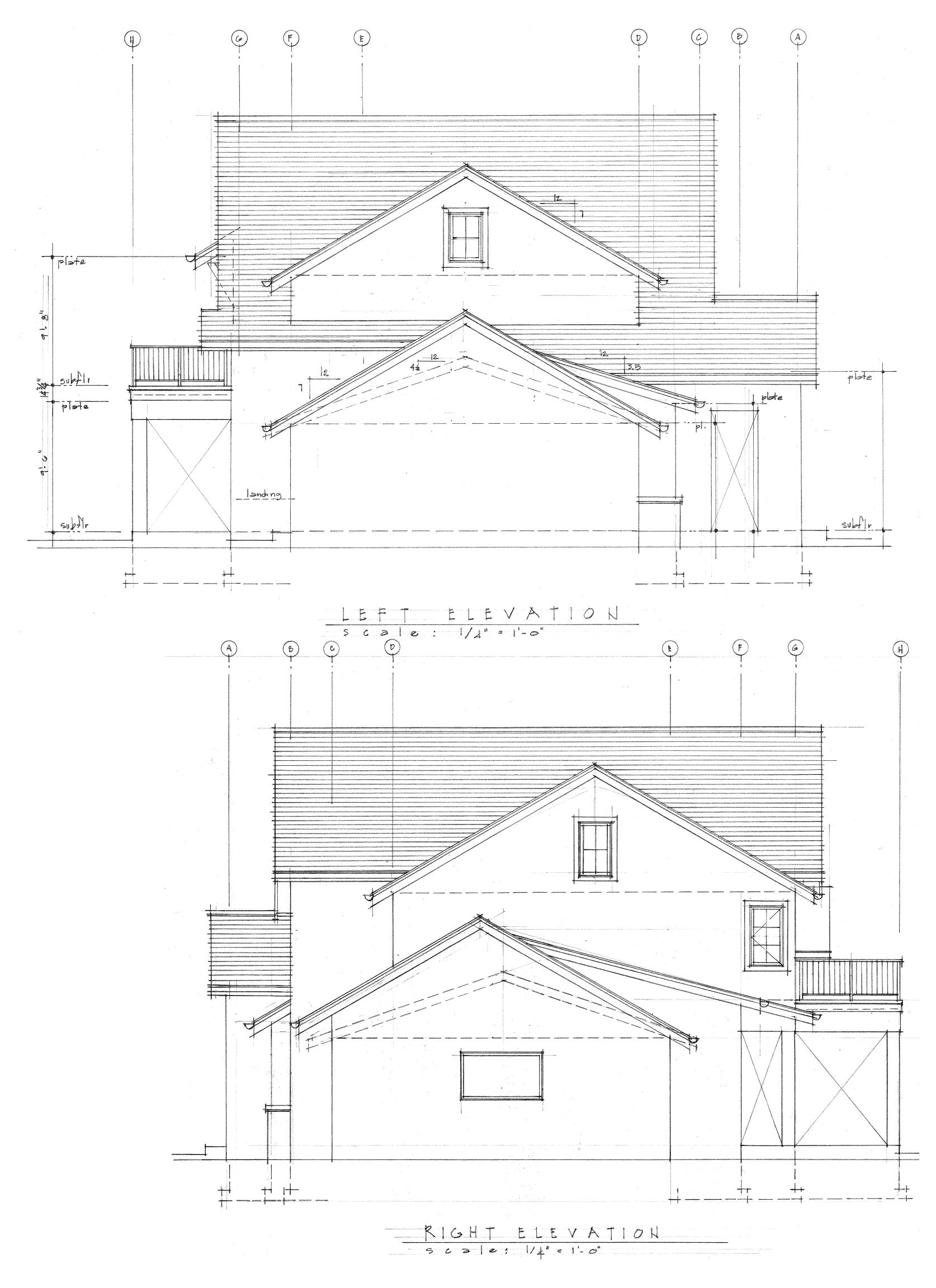
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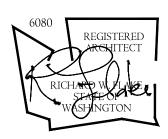
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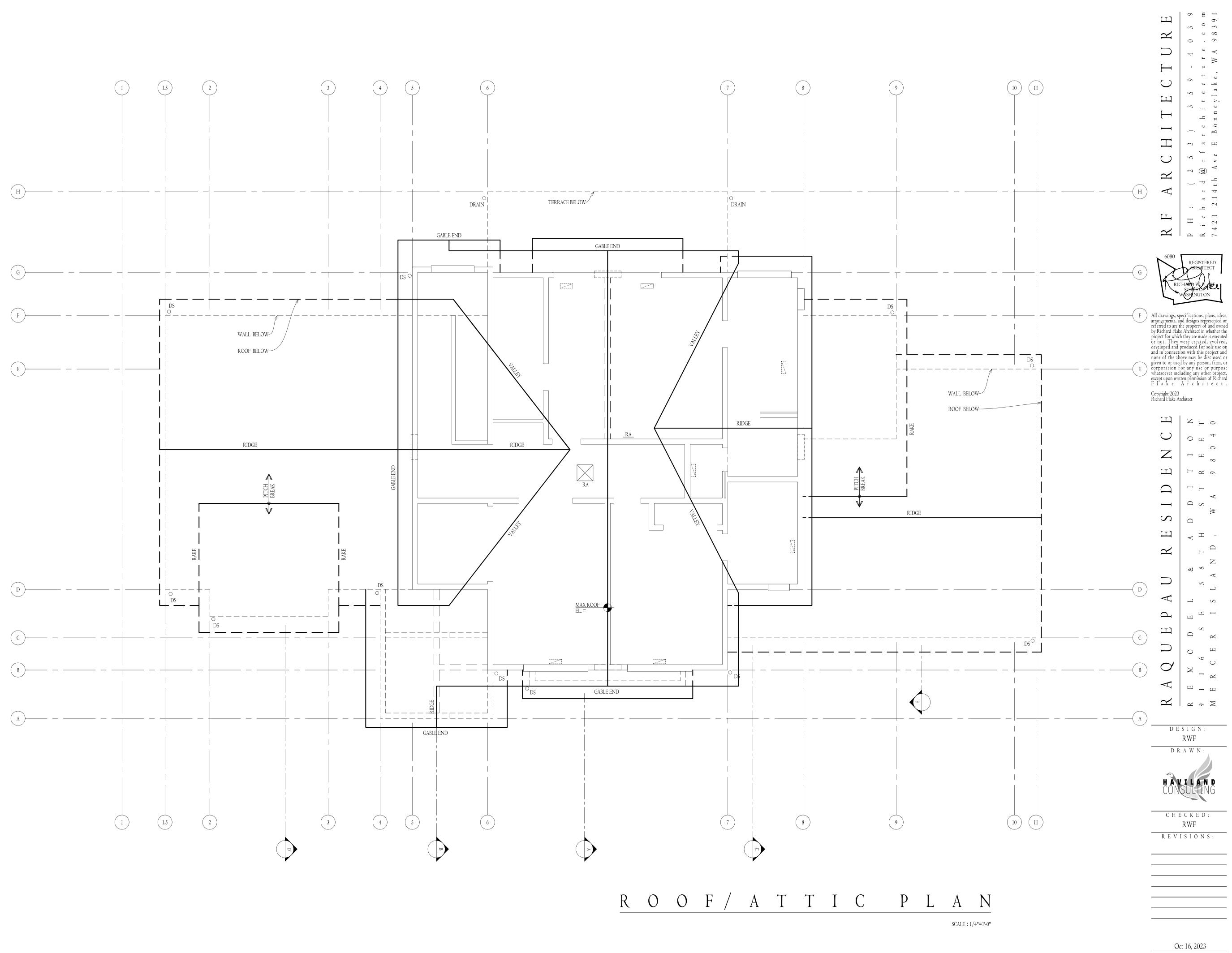
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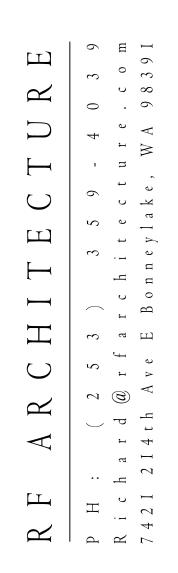
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ROOM FINISH SCHEDULE

		FLOOR	FINISH		WALL	. FINISH		CE
MARK	ROOM NAME	FLOOR	BASE	NORTH	EAST	SOUTH	WEST	
			1		1			
101	PORCH/VAULTED							
102	FOYER							
103	POWDER							
104	KITCHEN							
105	STORAGE							
106	DINING							
107	GREAT ROOM							
108	LAUNDRY							
109	MUD/REC							
110	GARAGE							
III	STOOP							
112	PORCH							
113	OUTDOOR SPACE/LIVING							
II4	HALL							
115	BATH							
116	BED 2							
117	BED 3							
118	CLOSET							
119	STAIR							
201	HALL							
202	PRIMARY BED							
203	VAULT							
204	BATH							
205	TOILET							
206	OFFICE							
207	EXER							
208	BED 4							
209	BATH							
210	TERRACE							
210								
								+
								+
								+
								+

FINISH REMARK	5 DOOR SCHEDULE MARK SIZE	THICKNESS TYPE STYLE	E DOOR FINISH	FRAME FINISH MANUFACTURER	SERIES U-VALUE REMARKS
NG	EXTERIOR DOORS:	IIII JIII JIII			CEVILOL REWARKS
	$I \qquad 3^{\underline{0}} \times 8^{\underline{0}}$	ENTRY			2X6 JAMBS TYP
	$2 \qquad 3\frac{0}{2} \times 8\frac{0}{2}$	1/2 LIGHT			
	$3 \qquad 3 \stackrel{0}{} x 8 \stackrel{0}{}$	I/2 LIGHT			
	$\frac{4}{5} \qquad \frac{3^{0} \times 8^{0}}{20^{0} \times 20^{0}}$	STORE DOOR			
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	MULTI-SLIDE STORE DOOR			
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	STORE DOOR STORE DOOR			FIXED PANELS
	INTERIOR DOORS:	STOREDOOR			TIMEDTIMALD
	$7 \qquad X^{\underline{X}} X^{\underline{X}}$	XXX			
	$8 \qquad X^{\underline{X}} X^{\underline{X}}$	XXX			
	9 $X \xrightarrow{X} X \xrightarrow{X}$	XXX			
	$10 \qquad X \frac{X}{X} x \frac{X}{X}$	XXX			
	$11 \qquad X \xrightarrow{X} x X \xrightarrow{X}$	XXX			
	$12 \qquad X \xrightarrow{X} x \xrightarrow{X}$	XXX			
	$13 \qquad X \xrightarrow{X} X \xrightarrow{X}$	XXX			
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	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	XXX			
	$19 X^{\underline{X}} X^{\underline{X}}$	XXX			
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	$2I$ $X \xrightarrow{X} X \xrightarrow{X}$	XXX			
	$22 \qquad X \stackrel{X}{=} x \stackrel{X}{=}$	XXX			
	$23 \qquad X \xrightarrow{X} X \xrightarrow{X} X$	XXX			
	$24 \qquad X \xrightarrow{X} X \xrightarrow{X} $	XXX			
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	XXX XXX			
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	XXX			
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	XXX			
	$29 \qquad X^{\underline{X}} X^{\underline{X}}$	XXX			
	WINDOW SCHEDULE				
	MARK SIZE (WXH)	TYPE MANUFACTURER SE	RIES U-VALUE	REMARKS	
	$I \qquad I2 \stackrel{0}{=} x 5 \stackrel{0}{=}$	VERT SLIDE			
	2 $2\frac{0}{2} \times 3\frac{0}{2}$	PIC			
	$3 2^{0} \times 3^{0}$	PIC			
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	CSMT V SLIDE ECRESS			
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	V. SLIDE EGRESS CSMT			
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	CSMT			
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	PIC T.GL			
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	CSMT			
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	SLIDER			
	$\begin{array}{c c} & & & & \\ \hline & & & \\ II & & & 6 \\ \hline & & & 5 \\ \hline \end{array}$	V. SLIDER EGRESS			
	12 $6^{-0} \times 5^{-6}$	V. SLIDER EGRESS			
	13 $2^{\frac{6}{2}} \times 4^{\frac{0}{2}}$	PIC			
	14 $2^{0} \times 3^{0}$	CSMT			
	I5 (NOT USED)				
	I6 (NOT USED)				
	17 (NOT USED)				
	18 $5^{0} \times 5^{0}$	CSMT T.GL			
	18a $2\frac{6}{5} \times 5\frac{0}{2}$	CSMT T.GL			
	I8a $2\frac{6}{x} \times 5\frac{0}{2}$ 19 $2\frac{6}{x} \times 4\frac{0}{2}$	CSMT T.GL PIC			
	18a $2\frac{6}{5} \times 5\frac{0}{2}$				

ARK	SIZE	THICKNESS TYPE	STYLE	DOOR FINISH	FRAME FINISH	MANUFACTURER	SERIES U-VALU	JE REMARKS
EXTERIOR								
I	$\frac{3^{0} \times 8^{0}}{3^{0} \times 8^{0}}$	ENTRY 1/2 LIGHT						2X6 JAMBS TYP
2 3	3 - x 8 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	I/2 LIGHT						
4	3 - x 8 = 0	STORE DOOR						
5	$20^{\frac{0}{2}} \times 8^{\frac{0}{2}}$	MULTI-SLIDE						
6	$6\frac{0}{0} \times 6\frac{8}{0}$	STORE DOOR						
I9	$\frac{10^{\underline{0}} \times 8^{\underline{0}}}{10^{\underline{0}} \times 8^{\underline{0}}}$	STORE DOOR						FIXED PANELS
INTERIOR 7	$\frac{X - x X^{\underline{X}}}{X - x X^{\underline{X}}}$	XXX						
8	$\frac{X - X X - X}{X - X X X}$							
9	$\frac{X - X X - X}{X - X X - X}$	XXX						
10	$X \xrightarrow{X} x X \xrightarrow{X}$	XXX						
II	$X \xrightarrow{X} x X \xrightarrow{X}$	XXX						
12	$X \xrightarrow{X} x X \xrightarrow{X} x$	XXX						
13	$X \xrightarrow{X} x X \xrightarrow{X}$	XXX						
14 15	$\frac{X \stackrel{X}{-} x X \stackrel{X}{-}}{X \stackrel{X}{-} x X \stackrel{X}{-}}$	XXX XXX						
15 16	$\frac{X - X X - X}{X - X X - X}$							
17	$\frac{X \times X}{X \times X \times X}$	XXX						
18	$X \xrightarrow{X} x X \xrightarrow{X}$	XXX						
19	$X \xrightarrow{X} x X \xrightarrow{X}$	XXX						
20	$X \xrightarrow{X} x X \xrightarrow{X}$	XXX						
21	$\frac{X \stackrel{X}{=} x X \stackrel{X}{=}}{X \stackrel{X}{=} x X \stackrel{X}{=}}$	XXX						
22 23	$\frac{X \stackrel{\text{\tiny a}}{} x X^{\underline{A}}}{X \stackrel{\text{\tiny x}}{} x X^{\underline{X}}}$	XXX XXX						
24	$\frac{X - X X - X}{X - X X X}$							
25	$X \xrightarrow{X} x X \xrightarrow{X}$	XXX						
26	$X \xrightarrow{X} x X \xrightarrow{X}$	XXX						
27	$X \xrightarrow{X} x X \xrightarrow{X}$	XXX						
28	$\frac{X \stackrel{X}{-} x X \stackrel{X}{-}}{X \stackrel{X}{-} x X \stackrel{X}{-}}$	XXX						
29	X = x X=	XXX						
	W SCHEDULE							
ARK	SIZE (WXH)	TYPE MANUFAC	CTURER SERIES	U-VALUE	REMARKS			
I	12 ⁰ x 5 ⁰	VERT SLIDE						
2	$\frac{12 - x 3 - 20}{2^{0} x 3^{0}}$	PIC						
3	$2^{\frac{0}{2}} \times 3^{\frac{0}{2}}$	PIC						
4	$2^{0} \times 3^{6}$	CSMT						
5	$6\frac{0}{5} \ge 5\frac{6}{5}$	V. SLIDE EGRESS						
6	$3\frac{0}{2} \times 3\frac{0}{2}$	CSMT						
7	$\frac{2^{0} \times 3^{6}}{4^{0} \times 10^{0}}$	CSMT DIC T CI						
8 9	$\frac{4^{0} \times 10^{0}}{5^{0} \times 5^{6}}$	PIC T.GL CSMT						
9 10	$\frac{5-x}{6^{0}} = x \frac{3^{6}}{3^{6}}$	SLIDER						
I	$6^{\circ} x 5^{\circ} 6^{\circ} x 5^{\circ}$	V. SLIDER EGRESS						
2	$6\frac{0}{5} \ge 5\frac{6}{5}$	V. SLIDER EGRESS						
3	$2^{\frac{6}{2}} \times 4^{\frac{0}{2}}$	PIC						
[4	$\frac{2^{0} \times 3^{0}}{2 \times 3^{0}}$	CSMT						
15	(NOT USED)							
16 17	(NOT USED) (NOT USED)							
17 18	$\frac{(\text{NOT USED})}{5^{\circ} \times 5^{\circ}}$	CSMT T.GL						
18 [8a	$\frac{5-x}{2^{6}}$	CSMT T.GL						
	$\frac{2 \times 3}{2^{\frac{6}{5}} \times 4^{\frac{0}{5}}}$	PIC						
19								
19 20	(NOT USED)							
		PIC PIC						





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CHECKED: RWF REVISIONS:

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Aug 07, 2023



RAQUEPAU RESIDENCE REMODEL

APPLICANT

JEREME RAQUEPAU 9116 SE 58TH STREET MERCER ISLAND, WA 98040

ARCHITECT

RF ARCHITECTURE 7412 214TH AVENUE E BONNEY LAKE, WA 98391 (253) 359-4039 CONTACT: RICHARD FLAKE

CIVIL ENGINEER

JMJ TEAM 905 MAIN STREET SUITE 200 SUMNER, WA 98390 (206) 596–2020 CONTACT: JUSTIN JONES, PE

SURVEYOR

SITE SURVEYING INC. 21923 NE 11TH STREET SAMMAMISH, WA 98074 (425) 298-4412 CONTACT: THOMAS WOLDENDROP, PLS

SITE INFORMATION:

SITE ADDRESS: TAX PARCEL NUMBER(S): ZONING:

9116 SE 58TH STREET MERCER ISLAND, WA 98040 228700-0120 R-9.6

TOTAL PROJECT AREA:

VERTICAL DATUM & CONTOUR INTERVAL

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

0.280 ACRES

DATUM – NAVD 88

2.0' CONTOUR INTERVAL- THE EXPECTED VERTICAL ACCURACY IS EQUAL TO $\frac{1}{2}$ THE CONTOUR INTERVAL OR PLUS / MINUS 1.0' FOR THIS PROJECT.

SURVEY DATE:

JANUARY 13TH, 2023

BASIS OF BEARINGS

RECORD OF SURVEY BY TERRANE, RECORDED IN VOLUME 390 OF SURVEYS, PAGE 163, UNDER RECORDING NO. 20180830900020, RECORDS OF KING COUNTY, WASHINGTON.

LEGAL DESCRIPTION

LOT 12 OF EL DORADO ESTATES, AS PER PLAT RECORDED IN VOLUME 62 OF PLATS, PAGE 7, RECORDS OF KING COUNTY AUDITOR; SITUATE IN THE CITY OF MERCER ISLAND, COUNTY OF KING, STATE OF WASHINGTON

SERVICE PROVIDERS:

WATER:	CITY OF MERCER ISLAND
SEWER:	CITY OF MERCER ISLAND
POWER:	PUGET SOUND ENERGY
GAS:	PUGET SOUND ENERGY

VICINITY MAP



SECTION 19, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M.

9116 SE 58th Street Mercer Island, WA 98040

Owner/Developer:

Jereme Raquepau 9116 SE 58th Street Mercer Island, WA 98040

Architect:

RF Architecture **Richard Flake** 7421 214th Avenue E Bonneylake, WA 98391 (253) 359-4039

Engineer:

JTEAM JMJ Team 905 Main Street, Suite #200 Sumner, WA 98390 (206) 596-2020

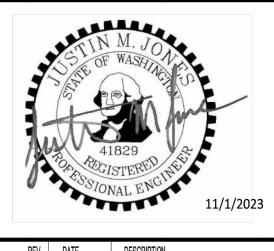
Project:

Raquepau Residence

9116 Se 58th Street Mercer Island, WA 98040

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

Civil Permit



R	EV	DATE	DESCRIPTION
1		11-1-23	Revised per City Comments
SHEET TITL	.E.		

Cover Sheet

PROJ. NO:	150	65-008	
DATE:	Nov	ember 1, 2023	
DRAWN BY:		DESIGN BY:	
	MO		11
SHEET NUMBER.		1	
	C-	01	
DWG.			
	1 OF	6	

CALL TWO BUSINESS DAYS

-800-424-5555 UTILITIES UNDERGROUND LOCATION CENTER

BEFORE YOU DIG

SHEET INDEX

Page #	Sheet #	Sheet Name
1	C-01	Cover Sheet
2	C-02	Existing Site Plan
3	C-03	Demolition & TESC Plan
4	C-04	Site & Grading Plan
5	C-05	Storm Plan
6	C-06	Details

SITE INFORMATION

SITE ADDRESS:

TAX PARCEL NUMBER(S):

228700-0120 R-9.6

TOTAL PROJECT AREA:

VERTICAL DATUM & CONTOUR INTERVAL

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

DATUM – NAVD 88

2.0' CONTOUR INTERVAL- THE EXPECTED VERTICAL ACCURACY IS EQUAL TO $\frac{1}{2}$ THE CONTOUR INTERVAL OR PLUS / MINUS 1.0' FOR THIS PROJECT.

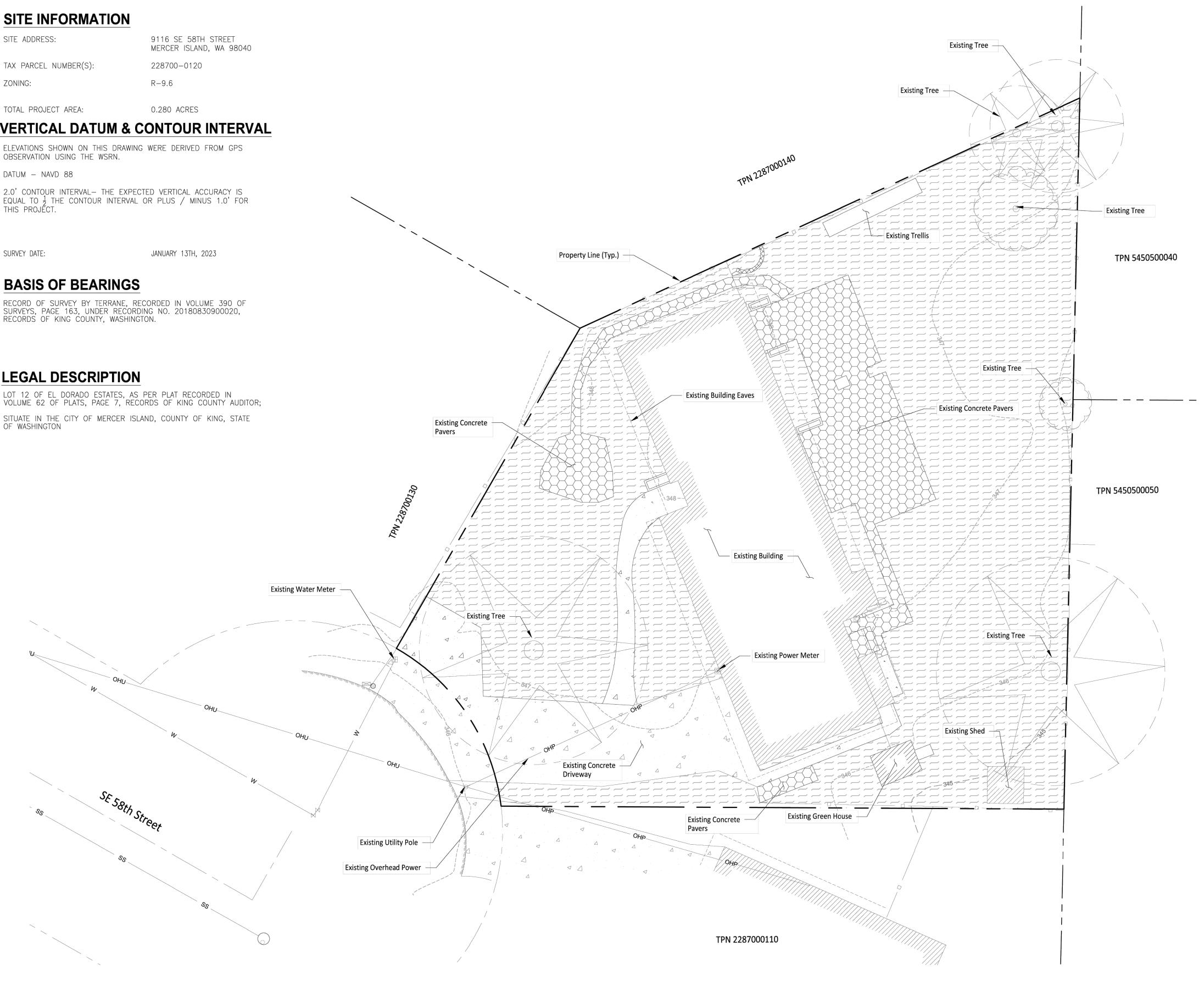
SURVEY DATE:

BASIS OF BEARINGS

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LEGAL DESCRIPTION

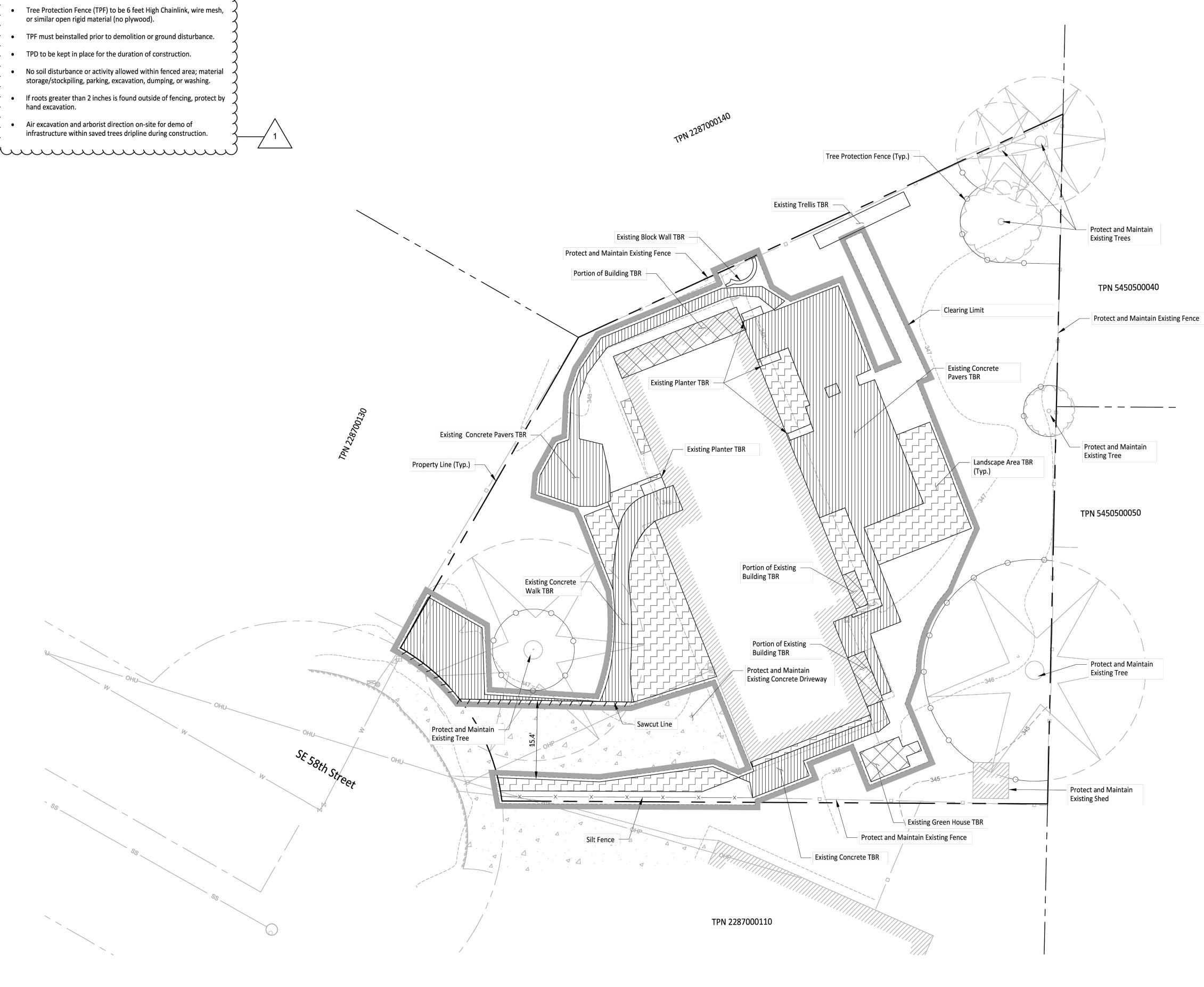
LOT 12 OF EL DORADO ESTATES, AS PER PLAT RECORDED IN VOLUME 62 OF PLATS, PAGE 7, RECORDS OF KING COUNTY AUDITOR; SITUATE IN THE CITY OF MERCER ISLAND, COUNTY OF KING, STATE OF WASHINGTON



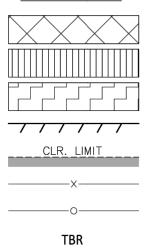
	Owner/Developer:
	Jereme Raquepau 9116 SE 58th Street Marror Island - WA 98040
LEGEND	Mercer Island, WA 98040
 Found Monument In Case Found Rebar As Described 	Architect:
 Found Rebar As Described Found Nail As Described 	
Set Mag Nail As Described	RF Architecture Richard Flake
• Set $\frac{5}{8}$ " X 24" Iron Rod W/1" Yellow Plastic Cap	7421 214th Avenue E Bonneylake, WA 98391
Power Meter	(253) 359-4039
	Engineer:
	JTEAM
$_{\sube}$ Guy wire ${\mathscr S}$ Utility Pole	JMJ Team
Yard Drain	905 Main Street, Suite #200 Sumner, WA 98390
Sanitary Sewer Manhole	(206) 596-2020
\bigcirc	Project:
🖂 Water Valve	Raquepau Residence
○ Fire Hydrant	
⊞ Water Meter	
— SS — Approximate Location Sanitary Sewer Line	
OHP Overhead Power	
OHU— Overhead Utilities	
$\{\Box}$ Wood Fence	9116 Se 58th Street
🖂 Mailbox	Mercer Island, WA 98040
Concrete Surface	
Concrete Pavers	ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
CE Cedar	Civil Permit
DF Douglas Fir DS Deciduous	
* Indicates Multi-Trunk	
 EXISTING LOT COVERAGE Area: 12,192 SF (0.28 AC) Total Impervious Coverage: 5,260 SF (43.1%) M. Concrete Pavement: 2,287 SF Total Pervious Coverage: 6.932 SF (56.9%) 	Rev DATE DESCRIPTION 1 11-1-23 Revised per City Comments 1 11-1-23
CALL TWO BUSINESS DAYS BEFORE YOU DIG 1-800-424-5555 UTILITIES UNDERGROUND LOCATION CENTER	PROJ. NO: 1565-008 DATE: November 1, 2023 DRAWN BY: DESIGN BY: MO JJ SHEET NUMBER. C-O22 DWG. 2 0F 6

\sim **TREE PROTECTION NOTES**

- or similar open rigid material (no plywood).
- TPD to be kept in place for the duration of construction.
- No soil disturbance or activity allowed within fenced area; material storage/stockpiling, parking, excavation, dumping, or washing.
- If roots greater than 2 inches is found outside of fencing, protect by hand excavation.
- Air excavation and arborist direction on-site for demo of infrastructure within saved trees dripline during construction.



LEGEND



Existing Building to be Removed

Existing Concrete to be Removed

Landscaping to be Removed Sawcut Existing Concrete

Clearing Limit Silt Fence Tree Protection Fence To Be Removed

TESC NOTES

- Contractor to install temporary erosion and sediment control measures as necessary to ensure stormwater leaving the site is free of settleable solids.
- Roads shall be cleaned thoroughly as needed to protect stormwater infrastructure and downstream water resources. Sediment shall be removed from roads by shoveling or pickup sweeping and be transported to a controlled sediment disposal area.
- Install Silt Fence as necessary per DOE BMP C233.
- Install straw bale barriers, wattles and other TESC measures as necessary.
- Exposed soils shall be watered as necessary to prevent dust from leaving the site.
- Contractor to mark clearing limits with lath and flagging.
- Concrete handling and equipment washing in accordance with DOE BMP C151.

SOIL AMENDMENT NOTES

The lawn and landscape areas are required to provide Post-Construction Soil Quality and Depth in accordance with BMP T5.13.

- POST-CONSTRUCTION SOIL MANAGEMENT
- 1. Retain & Protect Native Vegetation and Soil
- 1.1. Identify Areas of the site that will not be disturbed construction. Fence areas to prevent impacts during construction.
- 2. Loosen Compacted Subsoil
- 2.1. In Areas Compacted by Construction Traffic Scarify the top 4-inches of subsoil. Use a Cat-mounted Ripper, tractor-mounted disc, or tiller to mix the first lift of topsoil into the subsoil. Use the equipment listed to scarify soils to a depth of 12-inches before tilling in at least 8-inches of compost.
- 3. Restore Soils that are Disturbed During Construction 3.1. Stockpile and reuse existing topsoil (amend if needed to meet 5% organic matter content for turf areas; 10% organic matter content for planting beds).
- 4. Add Mulch to Planting Beds

4.1. Spread mulch (coarse bark or wood chips) in the spring or fall (after planting) to control weeds, reduce the need for irrigation and prevent erosion). Apply 1 to 2 inches of mulch on planting beds and around shallow-rooted annuals. Apply 2 to 4 inches of mulch around trees and woody perennials, but make sure to keep mulch 2-3 inches away from tree trunks.

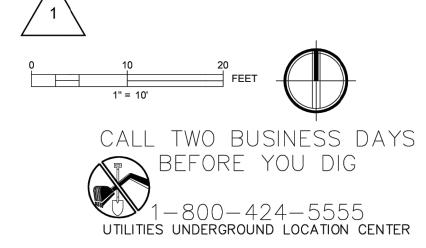
5. Protect Restored Soils from Erosion anad Re-Compaction 5.1. Prevent runoff from roads or open slopes onto amended soil areas. Compost blankets are an approved erosion control Best Management Practice (BMP) that can be used during construction and then tilled into existing soil at the end of the construction process prior to planting. Once soils have been amended, vehicle traffic should be prohibited to prevent recompilation from occurring.

DEMOLITION NOTES

- Landscaping to be Cleared & Grubbed: 1,055 SF
- Existing Concrete Pavement to be Removed: 1,675 SF

- Existing Building to be Removed: 235 SF
- Disturbed Area: 6,400 SF

ununun



Owner/Developer:

Jereme Raquepau 9116 SE 58th Street Mercer Island, WA 98040

Architect:

RF Architecture Richard Flake 7421 214th Avenue E Bonneylake, WA 98391 (253) 359-4039

Engineer: JTEAM

Project:

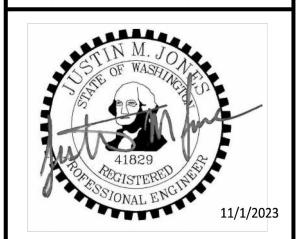
JMJ Team 905 Main Street, Suite #200 Sumner, WA 98390 (206) 596-2020

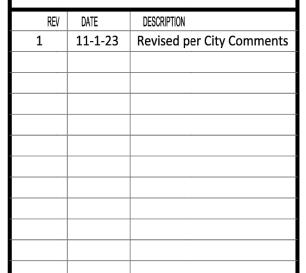
Raquepau Residence

9116 Se 58th Street Mercer Island, WA 98040

> ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

Civil Permit

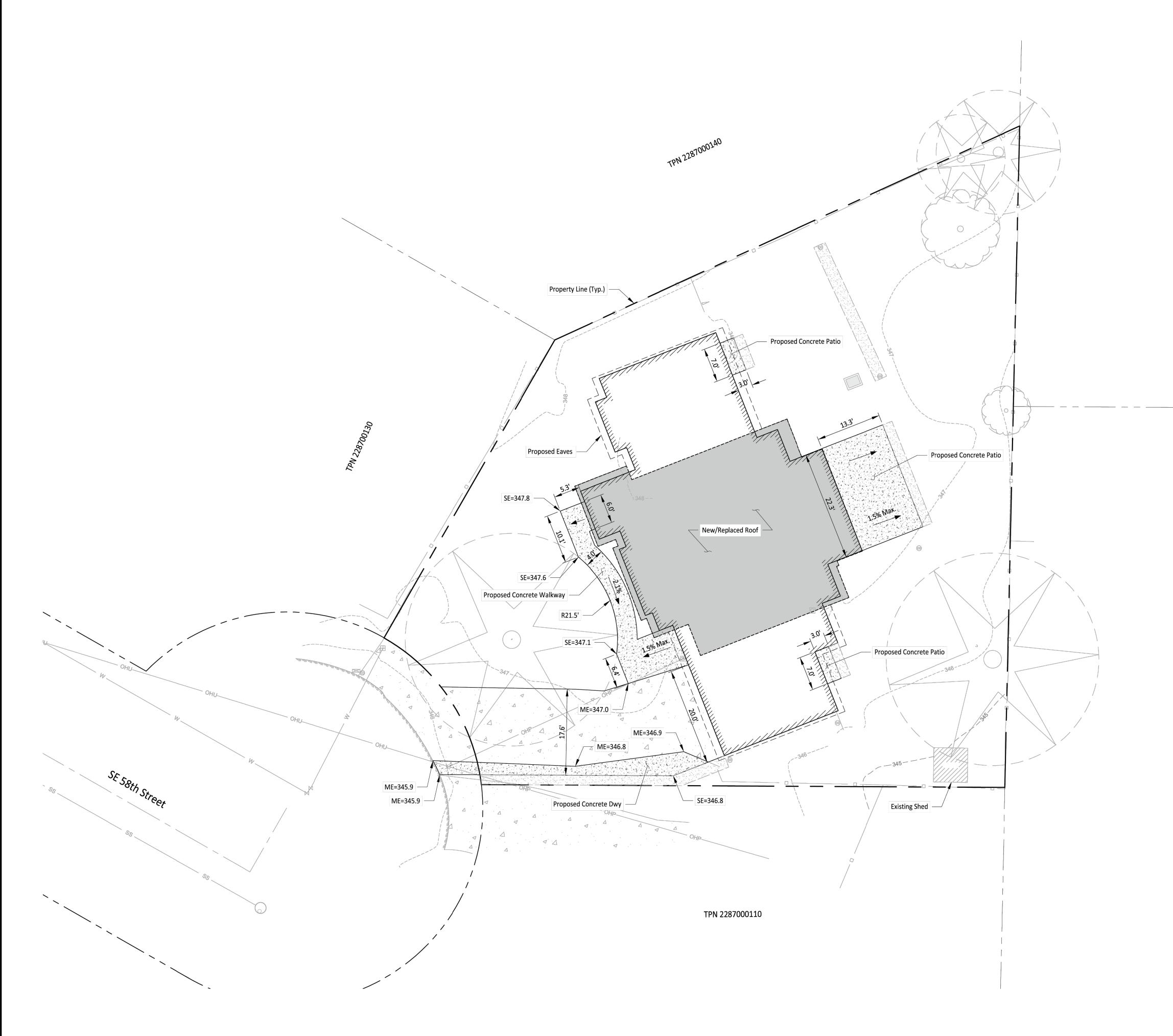




SHEET TITLE.

TESC & Demo Plan

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LEGEND

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Existing Concrete Proposed Concrete Proposed Gravel New/Replaced Roof Area Proposed Bldg. Extents Proposed Eaves Spot Elevation

Match Existing Grade

PROPOSED LOT COVERAGE

- Site Area: 12,192 SF (0.28 AC)
- Total Impervious Coverage: 4,854 SF (39.8%)
- •• Existing Remain: 2,167 SF
- •••
 Roof:
 1,378 SF

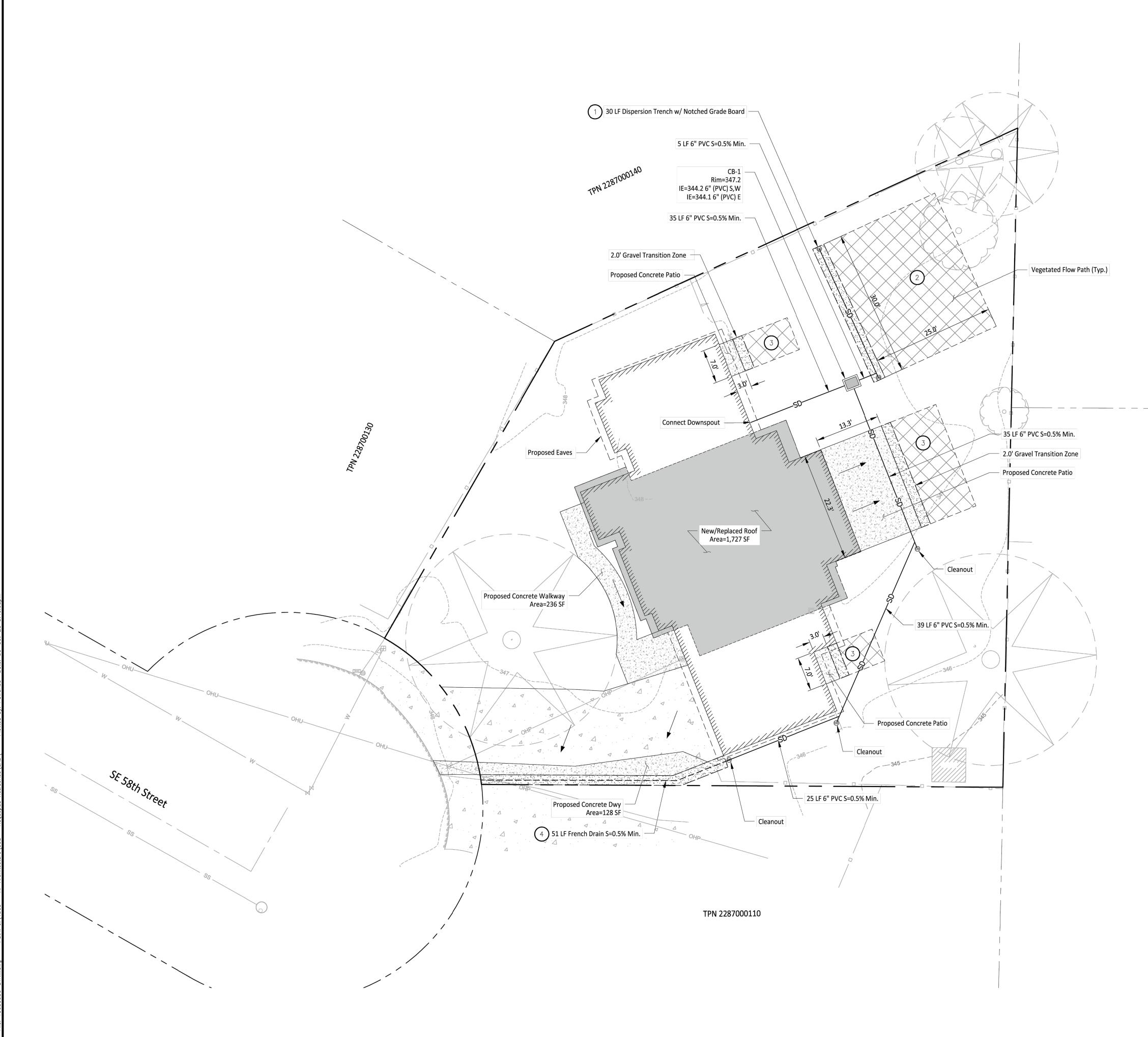
 •••
 Concrete Pavement:
 789 SF
- •• New/Replaced: 2,687 SF
- Roof: 1,728 SF
 Concrete Pavement: 704 SF
- ••• Gravel: 255 SF
- Total Pervious Coverage: 7,338 SF (60.2%)
- Net Impervious: 406 SF

Owner/Developer: Jereme Raquepau 9116 SE 58th Street Mercer Island, WA 98040 Architect: **RF Architecture Richard Flake** 7421 214th Avenue E Bonneylake, WA 98391 (253) 359-4039 Engineer: JJTEAM JMJ Team 905 Main Street, Suite #200 Sumner, WA 98390 (206) 596-2020 Project: Raquepau Residence 9116 Se 58th Street Mercer Island, WA 98040 ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY Civil Permit 41829 Pt-11/1/2023 -----REV DATE DESCRIPTION 1 11-1-23 Revised per City Comments SHEET TITLE. Site & **Grading Plan** 1565-008 PROJ. NO November 1, 2023 DRAWN BY: DESIGN BY: MO SHEET NUMBER. \sim C-04

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LEGEND

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Existing Concrete Proposed Concrete Proposed Gravel New/Replaced Roof Area Vegetated Flow Path Proposed Bldg. Extents Proposed Eaves 6" PVC Storm Line Cleanout Type 1 Catch Basin, Solid Lid

CONSTRUCTION NOTES

Dispersion Trench to be constructed per DOE Figure V-4.5.
 See Detail on Sheet C-06.
 Dispersion Trench Verstated Flow Path to be a minimum of

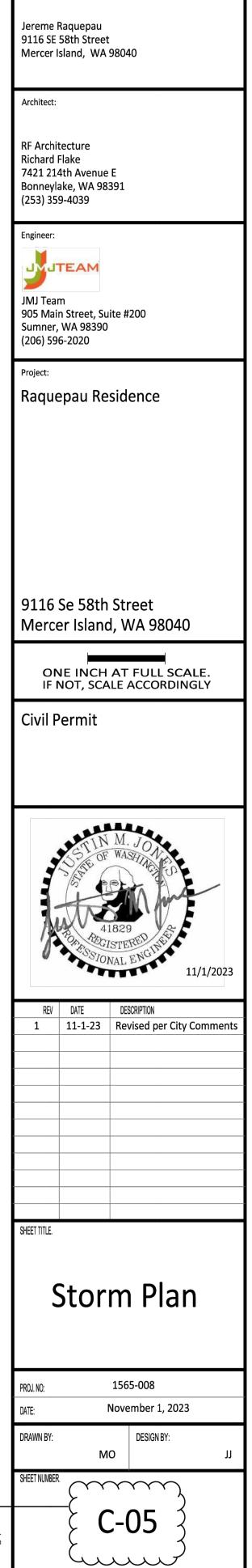
Dispersion Trench Vegetated Flow Path to be a minimum of
 25 LF in length.

Sheet Flow Vegetated Flow Path to be a minimum of 10 LF in length.

(4) Install French Drain per Section B on Sheet C-06.

5. Storm Pipes to be SDR 35 PVC piping.

6. Storm Pipes to maintain a minimum cover of 1.5' from finished grade surface.



_____5 OF ____6

Owner/Developer:



BMP C233: Silt Fence

Use of a silt fence reduces the transport of coarse sediment from a construction site by providing a temporary physical barrier to sediment and reducing the runoff velocities of overland flow. See Figure 4.2.12 for details on silt fence construction.

Purpose

- *Conditions of Use* Silt fence may be used downslope of all disturbed areas.
 - Silt fence shall prevent soil carried by runoff water from going beneath, through, or over the top of the silt fence, but shall allow the water to pass through the fence.
 - Silt fence is not intended to treat concentrated flows, nor is it intended to treat substantial amounts of overland flow. Convey any concentrated flows through the drainage system to a sediment pond.
 - Do not construct silt fences in streams or use in V-shaped ditches. Silt fences do not provide an adequate method of silt control for anything deeper than sheet or overland flow.

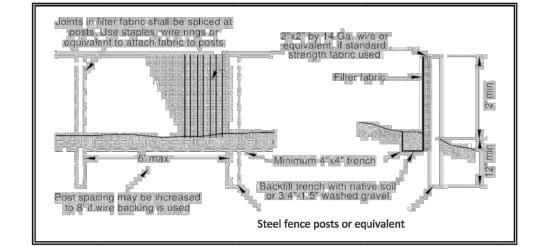


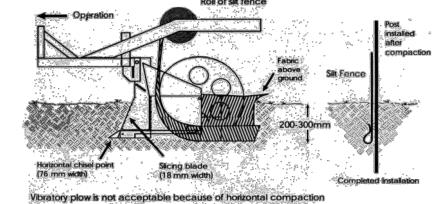
Figure 4.2.12 – Silt Fence

• Use in combination with sediment basins or other BMPs. Design and Installation

Specifications

- Maximum slope steepness (normal (perpendicular) to fence line) 1H:1V
- Maximum sheet or overland flow path length to the fence of 100 feet
- Do not allow flows greater than 0.5 cfs.

POST SPACING: 7' max. on open runs Ponding height max. 24" " max. on pooling are ZZZZ Be Attach fabric to pstream side of post FLOW---Drive over each side of slit fence 2 to 4 times with device exerting 60 p.s.l. or greater POST DEPTH: As much below ground as fabric above ground onal attachme oubles strength. 100% compa 00% compaction X П Addition No. 5 TACHMENT DETAILS: Gather labric at posts. If needed. Utilize three ties per post, all within top 8" of fabric Position each tie diagonally, puncturing holes verticall a minimum of 1° apart. Hang each lie on a post nipple and lighten securely. Use cable lies (50lbs) or soft wire. No more than 24" of a 36" fabric is allowed above ground.

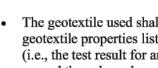


Standards

- Repair any damage immediately. Maintenance
 - Intercept and convey all evident concentrated flows uphill of the silt fence to a sediment pond.

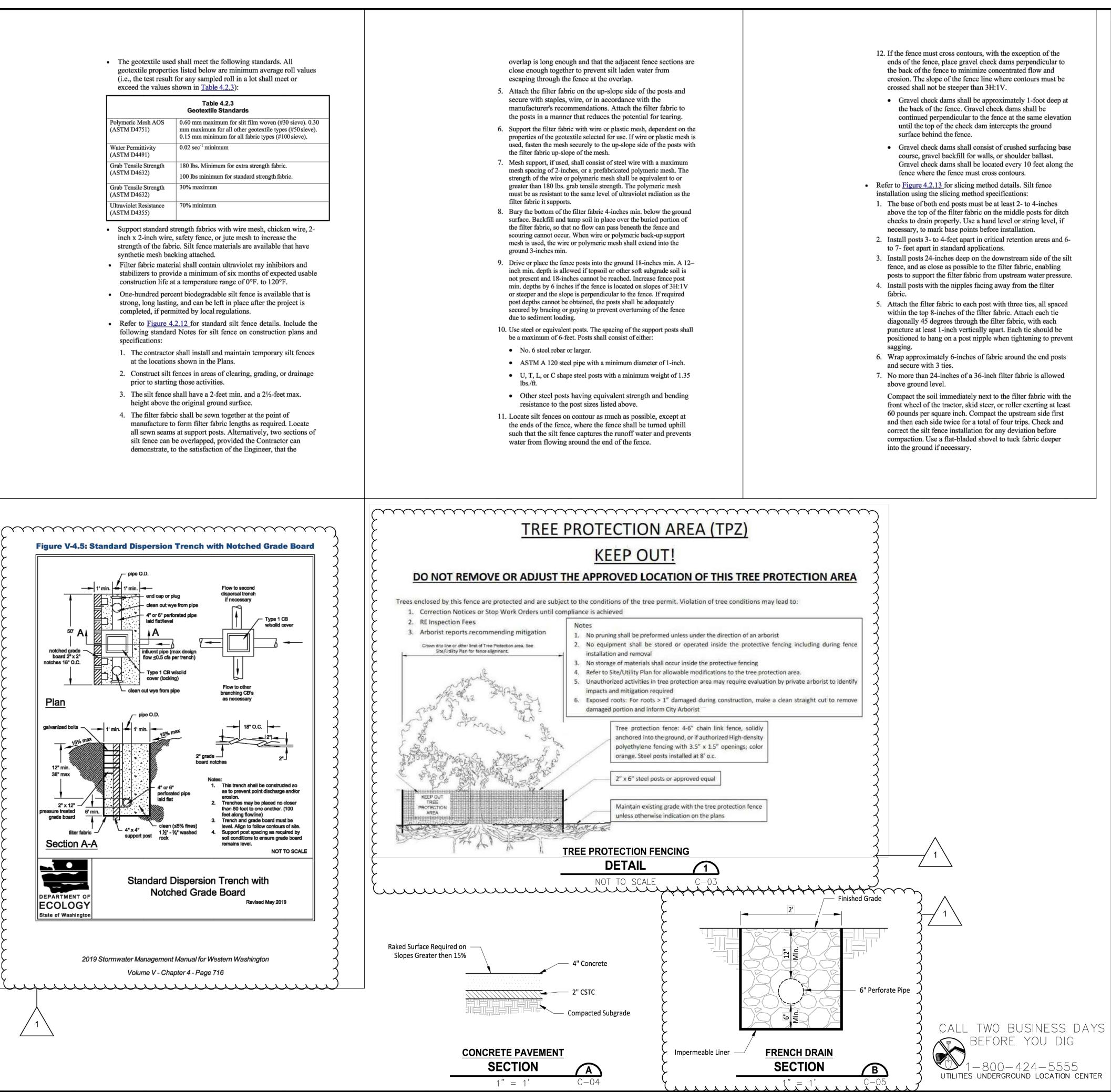
Figure 4.2.13 – Silt Fence Installation by Slicing Method

- Check the uphill side of the fence for signs of the fence clogging and acting as a barrier to flow and then causing channelization of flows parallel to the fence. If this occurs, replace the fence or remove the trapped sediment.
- Remove sediment deposits when the deposit reaches approximately one-third the height of the silt fence, or install a second silt fence.
- Replace filter fabric that has deteriorated due to ultraviolet breakdown.



	Ge
Polymeric Mesh AOS (ASTM D4751)	0.60 m mm m 0.15 m
Water Permittivity (ASTM D4491)	0.02 s
Grab Tensile Strength (ASTM D4632)	180 lb 100 lb
Grab Tensile Strength (ASTM D4632)	30% n
Ultraviolet Resistance	70% n

- specifications:



9116 SE	Raquepau 58th Street Island, WA		0		
Architect:					
	Flake 4th Avenue ake, WA 98				
JMJ Tea 905 Mai	in Street, Su , WA 98390		200		
Project: Raque	epau Re	side	ence		
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Owner/Developer:

PROJECT SPECIFIC DESIGN CRITERIA

Wind Design Data

Wind Design Speed, Vu = 110 MPH, Vasd = 85 MPH Wind Exposure = B Wind Importance Factor, Iw = 1.0Internal Pressure Coefficient = +/-0.18Ktz = 1.00 Kd = 0.85

Seismic Design Data

Importance factor = 1.0Ss = 1.47g, S1 = 0.57gSite Class = DSDS = 1.18g, SD1 = 0.65gSDC = DSeismic System = 15. Light-frame (wood) walls sheathed with wood structural panels rated for shear resistance Design Base Shear = 15.00 kips Cs = 0.181R = 6.5Analysis procedure: ASCE 11.4, 11.5 & 12.8 Snow Loads

Flat-roof snow load, pf = 25.0 psfSnow exposure factor, Ce = 1.00Snow load important factor, ls = 1.00Thermal factor, Ct = 1.00

<u>Gravity Loads*</u>

Roof Dead Load = 15 psf + 5 psf (SOLAR PANELS) Roof Live Load = 25 psfFloor Live Load (Office) = 50 psfFloor Live Load (Residential) = 40 psf, Balcony & Roof Decks = 60 psfFloor live Load (Corridor) = 100 psf Partition Loads = 10 psf (residential) Partition Loads = 20 psf (office) Floor Dead Loads = 12 psf (residential) At rest earth pressure = 60 pcf*As Applicable

GENERAL

1. ALL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE 2018 EDITION

OF THE INTERNATIONAL BUILDING CODE (IBC). 2. THE ARCHITECT/ENGINEER (ARCH/ENGR) IS NOT RESPONSIBLE FOR THE LOCATION OF PROPERTY LINES AND/OR

EASEMENT, SOIL CONDITIONS, MECHANICAL AND ELECTRICAL WORK, AND THE PRESENCE OF UTILITIES NOT REPORTED TO THE ARCH/ENGR IN WRITING BY THE OWNER.

3. THE ENGINEER IS NOT RESPONSIBLE FOR FIELD REVIEW OF CONSTRUCTION UNLESS

SPECIFICALLY RETAINED FOR THAT PURPOSE. 4. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS FOR BIDDING AND CONSTRUCTION. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. ALL DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE INTENDED FOR REFERENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS. 5. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE STRUCTURAL DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND MUST BE VERIFIED. CONTRACTOR SHALL COMPARE THE DRAWINGS AND NOTIFY THE ARCH/ENGR

OF ANY DISCREPANCIES PRIOR TO COMMENCING WITH THE WORK. 6. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.

7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES REQUIRED TO PERFORM HIS WORK. THE STRUCTURAL ENGINEER HAS NO OVERALL SUPERVISORY AUTHORITY OR ACTUAL AND/OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND/OR FOR ANY HAZARDS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE STRUCTURAL ENGINEER HAS NO DUTY TO INSPECT, SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES OF THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE.

8. CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.

9. 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. 10. ALL STRUCTURAL SYSTEMS WHICH ARE TO BE 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.

GEOTECHNICA

11. GEOTECHNICAL FOUNDATION NOTES: SUBGRADE PREPARATION INCLUDING DRAINAGE, EXCAVATION, COMPACTION, AND FILLING REQUIREMENTS, SHALL CONFORM STRICTLY WITH RECOMMENDATIONS GIVEN IN THE SOILS REPORT OR AS DIRECTED BY THE SOILS ENGINEER. FOOTINGS SHALL BEAR ON SOLID UNDISTURBED EARTH (CONTROLLED, COMPACTED STRUCTURAL FILL OR BOTH) AT LEAST 18" BELOW LOWEST ADJACENT FINISHED GRADE. FOOTING DEPTHS/ELEVATIONS SHOWN ON PLANS (OR IN DETAILS) ARE MINIMUM AND FOR GUIDANCE ONLY; THE ACTUAL ELEVATIONS OF FOOTINGS MUST BE ESTABLISHED BY THE CONTRACTOR IN THE FIELD WORKING WITH THE TESTING LAB AND SOILS ENGINEER. BACKFILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINAGE AS NOTED IN THE SOILS REPORT.

IN THE ABSENCE OF A SOILS REPORT THE FOLLOWING VALUES ARE USED:

ALLOWABLE SOIL PRESSURE LATERAL EARTH PRESSURE (RESTRAINED/UNRESTRAINED) LATERAL EARTH PRESSURE (SEISMIC) PASSIVE EARTH PRESSURE (INCLUDES FACTOR OF SAFETY = 1.5) COEFFICIENT OF FRICTION (INCLUDES FACTOR OF SAFETY = 1.5)

SOILS REPORT REFERENCE: (N/A)

CONCRETE

<u>12. CONCRETE</u> SHALL BE MIXED, PROPORTIONED, CONVEYED, AND PLACED IN ACCORDANCE WITH ACI 318-14 AND ACI 301-10. CONCRETE SHALL ATTAIN A 28-DAY STRENGTH (f'c) OF 3000 PSI, SHALL CONTAIN NO LESS THAN 5-1/2 SACKS OF CEMENT, HAVE A MAXIMUM WATER/CEMENT RATIO OF 0.45, AND A SLUMP OF 5 INCHES OR LESS. CONCRETE HAS BEEN DESIGNED BASED ON A CONCRETE STRENGTH (f'c) OF 2500 PSI PER SEATTLE BUILDING CODE SECTION 1705.3 EXCEPTION 2.3 TO AVOID SPECIAL INSPECTIONS AND MATERIAL TESTING.

<u>13. PERFORMANCE MIX DESIGNS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR</u> APPROVAL TWO WEEKS PRIOR TO PLACING ANY CONCRETE. THE PERFORMANCE MIX DESIGN SHALL INCLUDE THE AMOUNTS OF CEMENT, FINE AND COARSE AGGREGATE (3/4" MAXIMUM), WATER AND ADMIXTURES AS WELL AS THE WATER CEMENT RATIO, SLUMP, TARGET CONCRETE STRENGTH. SUBSTANTIATING STRENGTH DATA CONFORMING TO CURRENT ACI AND ASTM STANDARDS SHALL BE SUBMITTED WITH THE PERFORMANCE MIX DESIGN. THE USE OF A PERFORMANCE MIX REQUIRES BATCH PLANT INSPECTION, THE COST OF WHICH SHALL BE PAID BY THE GENERAL CONTRACTOR. REVIEW OF MIX SUBMITTALS BY THE ENGINEER OF RECORD INDICATES ONLY THAT INFORMATION PRESENTED CONFORMS GENERALLY WITH CONTRACT DOCUMENTS. CONTRACTOR OR SUPPLIER MAINTAINS FULL RESPONSIBILITY FOR SPECIFIED PERFORMANCE.

14. ALL CONCRETE WITH SURFACES EXPOSED TO STANDING WATER SHALL BE AIR-ENTRAINED WITH AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260, C494M, AND C618. UNLESS OTHERWISE NOTED THE TOTAL AIR CONTENT SHALL BE 5%. AIR CONTENT SHALL BE SAMPLED IN ACCORDANCE WITH ASTM C172 ABD ARI CONTENT MEASURED IN ACCORDANCE WITH ASTM C231 OR C173.

15. REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENTS S1), GRADE 60, Fv = 60,000 PSI. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185

16. DETAILING OF REINFORCING STEEL (INCLUDING HOOKS AND BENDS) SHALL BE IN ACCORDANCE WITH ACI SP-66-04 AND ACI 318-14 CHAPTER 25. UNLESS OTHERWISE NOTED LAP REINFORCEMENT A MINIMUM OF 48 X BAR DIAMETER AND EMBED STANDARD 90 DEGREE HOOKS A MINIMUM OF 6-INCHES. LAP SPLICES SHALL BE STAGGERED SUCH THAT A MAXIMUM OF 50% OF THE TOTAL REINFORCEMENT IS SPLACED AT ANY ONE LOCATION. PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS.

LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS.

NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER. FIELD BENDING OF GRADE 60 REINFORCEMENT SHALL NOT BE ALLOWED.

<u>17. CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL</u> SHALL BE AS FOLLOWS:

FOOTINGS AND OTHER UNFORMED SURFACES CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH

ALL OTHER SURFACES

18. SLABS-ON-GRADE: UNLESS NOTED OTHERWISE SHALL BE 4" CONCRETE, REINFORCED WITH 6X6 W1.4XW1.4 WELDED WIRE FABRIC CENTERED IN SLAB. UNLESS OTHERWISE DIRECTED BY SOILS REPORT PROVIDE MINIMUM 10 MIL VAPOR BARRIER OVER 4" OF COMPACTED SAND OR GRAVEL.

<u>19. CAST-IN-PLACE CONCRETE</u>: SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND DIMENSIONS OF DOOR AND WINDOW OPENINGS IN ALL CONCRETE WALLS. SEE ARCHITECTURAL DRAWINGS FOR ALL GROOVES, NOTCHES, CHAMFERS, FEATURE STRIPS, COLOR, TEXTURE, AND OTHER FINISH DETAILS AT ALL EXPOSED CONCRETE SURFACES.

<u>W00D</u>

20. FRAMING LUMBER SHALL BE KILN DRIED OR MC-19, AND GRADED AND MARKED IN CONFORMANCE WITH WCLIB STANDARD GRADING RULES FOR WEST COAST LUMBER NO. 17. LATEST EDITION. FURNISH TO THE FOLLOWING MINIMUM STANDARDS.

<u>JOISTS</u>: (2X, 3X, AND 4X MEMBERS)

BEAM AND STRINGERS: (6 X AND LARGER MEMBERS)

STUDS PLATES & MISCELLANEOUS LIGHT FRAMING DOUGLAS FIR LARCH OR HEM-FIR NO. 2, MINIMUM BASIC DESIGN STRESS $F_b = 850PSI$, $F_c = 1,300PSI$

21. GLUED LAMINATED MEMBERS SHALL BE FABRICATED AND IDENTIFIED AS REQUIRED BY ASTM D3737 AND A.I.T.C. A190.1. EACH MEMBER SHALL BEAR AN A.I.T.C. IDENTIFICATION MARK AND SHALL BE ACCOMPANIED BY AN A.I.T.C. CERTIFICATE OF CONFORMANCE. IN ADDITION ALL GLULAMS SHALL CONFORM TO APA PERFORMANCE STANDARD PRG-305. ALL SIMPLE SPAN BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-V4, $F_{b} = 2,400 \text{ PSI}, F_{V} = 240 \text{ PSI}, E = 1,800,000 \text{ PSI}.$ ALL CANTILEVERED BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-V8, $F_b = 2,400$ PSI, $F_v = 240$ PSI, E = 1,800,000 PSI. UNLESS OTHERWISE NOTED CAMBER ALL GLULAM BEAMS TO 2,000 FOOT RADIUS. WHERE REQUIRED BEAMS AND COLUMNS SHALL BE PRESSURE TREATED AFTER MANUFACTURE IN ACCORDANCE WITH AMERICAN WOOD-PRESERVATIVES ASSOCIATION STANDARD U1.

22. PARALLEL STRAND LUMBER (PSL): EACH PIECE SHALL BEAR A STAMP OR STAMPS NOTING THE NAME AND PLANT NUMBER OF THE MANUFACTURER, THE GRADE, PRODUCT DESIGNATION OR TYPE, THE PRODUCTION DATE, SPECIES OR SPECIES GROUP DESIGNATION, AND THE QUALITY CONTROL AGENCY. MEMBERS SHALL BE GLUED WITH A WATERPROOF ADHESIVE MEETING THE REQUIREMENTS OF ASTM D2559 WITH ALL GRAIN PARALLEL WITH THE LENGTH OF THE MEMBER. STRUCTURAL CAPACITIES SHALL BE ESTABLISHED IN ACCORDANCE WITH ASTM D5456 AND PRODUCT SHALL HAVE AN APPROVED I.C.C.-E.S. EVALUATION REPORT MEMBERS SHALL BE TRANSPORTED AND STORED PER MANUFACTURERS RECOMMENDATIONS AND SHALL NOT BE EXPOSED TO PROLONGED MOISTURE. MINIMUM REQUIRED DESIGN PROPERTIES: $F_b = 2900 \text{ PSI}, E = 2900 \text{ PSI}$ 2200.000 PSI. Fv = 290 PSI.

DESIGN SHOWN ON PLANS IS BASED ON LUMBER MANUFACTURED BY THE WEYERHAEUSER. ALTERNATE MANUFACTURERS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER. ALTERNATE JOIST HANGERS AND OTHER HARDWARE MAY BE SUBSTITUTED FOR ITEMS SHOWN PROVIDED THEY HAVE ICC-ES APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. ALL JOIST HANGERS AND OTHER HARDWARE SHALL BE COMPATIBLE IN SIZE WITH MEMBERS PROVIDED.

2,000 PSF 55 PCF/35 PCF 8H (ULTIMATE LOAD) 350 PCF 0.35

GENERAL STRUCTURAL NOTES:

3"

HEM-FIR NO. 2 MINIMUM BASIC DESIGN STRESS, $F_b = 850$ PSI

DOUGLAS FIR LARCH NO. 1 MINIMUM BASIC DESIGN STRESS, $F_b = 1,350$ PSI

WOOD CONTINUED

<u>23. LAMINATED STRAND LUMBER (LSL):</u> EACH PIECE SHALL BEAR A STAMP OR STAMPS NOTING THE NAME AND PLANT NUMBER OF THE MANUFACTURER, THE GRADE, PRODUCT DESIGNATION OR TYPE, THE PRODUCTION DATE, SPECIES OR SPECIES GROUP DESIGNATION, AND THE QUALITY CONTROL AGENCY. MEMBERS SHALL BE GLUED WITH A WATERPROOF ADHESIVE MEETING THE REQUIREMENTS OF ASTM D2559 WITH ALL GRAIN PARALLEL WITH THE LENGTH OF THE MEMBER. STRUCTURAL CAPACITIES SHALL BE ESTABLISHED IN ACCORDANCE WITH ASTM D5456 AND PRODUCT SHALL HAVE AN APPROVED I.C.C.-E.S. EVALUATION REPORT MEMBERS SHALL BE TRANSPORTED AND STORED PER MANUFACTURERS RECOMMENDATIONS AND SHALL NOT BE EXPOSED TO PROLONGED MOISTURE. MINIMUM REQUIRED DESIGN PROPERTIES: $F_{h} = 2325$ PSI, $F_{v} = 310$ PSI, E = 1,550,000 PSI,

LSL RIM JOISTS SHALL CONFORM TO ANSI/APA PRR 410 AND SHALL BE MARKED IN ACCORDANCE WITH THE STANDARD.

DESIGN SHOWN ON PLANS IS BASED ON LUMBER MANUFACTURED BY WEYERHAEUSER. ALTERNATE MANUFACTURERS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER, ALTERNATE JOIST HANGERS AND OTHER HARDWARE MAY BE SUBSTITUTED FOR ITEMS SHOWN PROVIDED THEY HAVE ICC-ES APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. ALL JOIST HANGERS AND OTHER HARDWARE SHALL BE COMPATIBLE IN SIZE WITH MEMBERS PROVIDED.

24. PREFABRICATED PLYWOOD WEB JOIST DESIGN SHOWN ON PLANS IS BASED ON JOIST MANUFACTURED BY THE WEYERHAEUSER. ALTERNATE PLYWOOD WEB JOIST MANUFACTURERS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER. ALTERNATE JOIST HANGERS AND OTHER HARDWARE MAY BE SUBSTITUTED FOR ITEMS SHOWN PROVIDED THEY HAVE ICC-ES APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. ALL JOIST HANGERS AND OTHER HARDWARE SHALL BE COMPATIBLE IN SIZE WITH PLYWOOD WEB JOIST PROVIDED.

<u>30. PLYWOOD SHEATHING</u> SHALL BE GRADE C-D, EXTERIOR GLUE OR STRUCTURAL II, EXTERIOR GLUE IN CONFORMANCE WITH DOC PS 1-09 OR PS 2-10 AND AMERICAN PLYWOOD ASSOCIATION PERFORMANCE STANDARD PRP-108. ORIENTED STRAND BOARD OF EQUIVALENT THICKNESS, EXPOSURE RATING AND PANEL INDEX MAY BE USED IN LIEU OF PLYWOOD. SEE PLANS FOR THICKNESS, PANEL IDENTIFICATION INDEX AND NAILING REQUIREMENTS. EACH PANEL SHALL BE IDENTIFIED FOR GRADE AND GLUE TYPE BY THE TRADEMARKS OF AN APPROVED TESTING AND GRADING AGENCY.

<u>31. ALL WOOD PLATES IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE-TREATED</u> WITH AN APPROVED PRESERVATIVE, PROVIDE 2 LAYERS OF ASPHALT IMPREGNATED BUILDING PAPER BETWEEN UNTREATED LEDGERS, BLOCKING, ETC. AND CONCRETE OR MASONRY.

PRESSURE TREATED LUMBER SHALL COMPLY WITH THE AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) STANDARD U1, COMMODITY SPECIFICATION A. ALL TREATED LUMBER SHALL BEAR THE QUALITY MARK OF AN ACCREDITED INSPECTION AGENCY. THE QUALITY MARK SHALL INCLUDE:

- A. IDENTIFICATION OF TREATING MANUFACTURER
- B. TYPE OF PRESERVATIVE USED
- C. MINIMUM PRESERVATIVE RETENTION (PCF) D. END USE FOR WHICH THE PRODUCT IS TREATED
- E. IDENTITY OF THE ACCREDITED INSPECTION AGENCY
- F. STANDARD TO WHICH THE PRODUCT IS TREATED

32. TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED IN THEIR CATALOG NUMBER C-C-2019. EQUIVALENT DEVICES BY OTHER MANUFACTURERS MAY BE SUBSTITUTED. PROVIDED THEY HAVE ICC-ES APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. PROVIDE NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, PLACE ONE-HALF OF THE NAILS OR BOLTS IN EACH MEMBER. SHIMS, WHERE REQUIRED, SHALL BE SEASONED AND DRIED AND THE SAME GRADE (MINIMUM) AS MEMBERS CONNECTED.

ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. ALL LAG SCREWS SHALL BE INSTALLED IN PRE-DRILLED HOLES.

UNLESS NOTED OTHERWISE, ALL NAILS SHALL BE COMMON AND MAXIMUM NUMBER OF NAILS AS SPECIFIED BY THE MANUFACTURER SHALL BE PROVIDED.

UNLESS NOTED OTHERWISE ALL SAWN LUMBER JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH "LUS" SERIES JOIST HANGERS AND ALL PREFABRICATED PLYWOOD WEB JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH "IUS" SERIES JOIST HANGERS UNLESS NOTED OTHERWISE.

ALL CONNECTIONS IN CONTACT WITH PRESERVATIVE-TREATED OR FIRE-RETARDANT-TREATED WOOD, SHALL BE OF HOT DIPPED ZINC-COATED GALVANIZED STEEL OR STAINLESS STEEL. HOT DIPPED GALVANIZED FASTENERS SHOULD CONFORM TO ASTM STANDARD 153, AND HOT DIPPED GALVANIZED CONNECTORS SHOULD CONFORM TO ASTM STANDARD A653 (CLASS G-185). STAINLESS STEEL FASTENERS AND CONNECTORS SHOULD BE TYPE 304 OR 316. NOTE: ELECTROPLATED GALVANIZED FASTENERS AND CONNECTORS ARE NOT TO BE USED WITH PRESSURE TREATED WOOD. SIMPSON PRODUCT FINISHES CORRESPONDING TO THE ABOVE REQUIREMENTS ARE ZMAX (HOT DIPPED GALVANIZED) AND SST300 (STAINLESS STEEL). STAINLESS STEEL HARDWARE AND FASTENERS SHALL NOT BE COMBINED WITH UNTREATED OR GALVANIZED MATERIAL.

33. WOOD FASTENERS:

A. NAIL SIZES SPECIFIED ON DRAWINGS ARE BASED ON THE FOLLOWING SPECIFICATIONS:

<u>SIZE</u>	<u>LENGTH</u>	DIAMETER
6d	2"	0.113"
8d	2-1/2"	0.131"
10d	3"	0.148"
12d	3-1/4"	0.148"
16d	3-1/2"	0.162"

DESIGN IS BASED ON COMMON STEEL WIRE NAILS MEETING THE REQUIREMENTS OF ASTM F1667. USE OF ALTERNATE FASTENERS MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO THE START OF CONSTRUCTION.

B. NAILS – PLYWOOD (APA RATED SHEATHING) FASTENERS TO FRAMING SHALL BE DRIVEN FLUSH TO FACE OF SHEATHING WITH NO COUNTERSINKING PERMITTED.

WOOD CONTINUED

34. WOOD FRAMING NOTES – THE FOLLOWING APPLY UNLESS OTHERWISE SHOWN ON THE PLANS:

A. ALL WOOD FRAMING DETAILS NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE SEATTLE BUILDING CODE. MINIMUM NAILING, UNLESS OTHERWISE NOTED, SHALL CONFORM TO TABLE 2304.10.1 OF THE SEATTLE BUILDING CODE. UNLESS NOTED OTHERWISE, ALL NAILS SHALL BE AS SPECIFIED ABOVE. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. INSTALLATION OF BOLTS AND LAG SCREWS SHALL CONFORM TO SECTIONS 12.1.3 AND 12.1.4 OF THE 2015 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. NATURALLY DURABLE OR PRESSURE TREATED WOOD SHALL BE PROVIDED WHERE REQUIRED BY SECTION 2304.12 OF THE SEATTLE BUILDING CODE.

WALL FRAMING: ALL STUD WALLS SHOWN AND NOT OTHERWISE NOTED SHALL BE 2X6 AT 16" O.C. TWO STUDS MINIMUM SHALL BE PROVIDED AT THE END OF ALL WALLS AND AT EACH SIDE OF ALL OPENINGS. TWO 2 x 8 HEADERS SHALL BE PROVIDED OVER ALL OPENINGS NOT OTHERWISE NOTED AND SHALL BEAR FULLY ON A MINIMUM OF TWO STUDS. SOLID BLOCKING FOR WOOD COLUMNS SHALL BE PROVIDED THROUGH FLOORS TO SUPPORTS BELOW. PROVIDE SOLID BLOCKING BETWEEN STUDS AT MID-HEIGHT OF ALL STUD WALLS OVER 10' IN HEIGHT.

STUDS MAY BE NOTCHED, CUT, OR PENETRATED WITH ROUND BORED HOLES AS FOLLOWS:

STUD SIZE	MAXIMUM NOTCH / CUT	MAXIMUM BORED HOLE
2X4	7/8"	1-3/8"
2X6	1-3/8"	2-1/8"

BORED HOLES SHALL NOT BE LOCATED WITH 5/8" FROM THE EDGE OF THE STUD OR AT THE SAME LOCATION AS A NOTCH OR CUT.

WALLS SHALL HAVE A SINGLE BOTTOM PLATE AND A DOUBLE TOP PLATE. END NAIL TOP PLATE TO EACH STUD WITH TWO 16d NAILS, AND TOENAIL OR END NAIL EACH STUD TO BOTTOM PLATE WITH TWO 16d NAILS. FACE NAIL DOUBLE TOP PLATE WITH 16d AT 12" O.C. AND LAP MINIMUM 4'-0" AT JOINTS AND PROVIDE EIGHT 16d NAILS AT 4" O.C. EACH SIDE OF JOINT.

ALL STUD WALLS SHALL HAVE THEIR LOWER WOOD PLATES ATTACHED TO WOOD FRAMING BELOW WITH 16d NAILS AT 12" O.C. STAGGERED OR BOLTED TO CONCRETE WITH 5/8" DIAMETER ANCHOR BOLTS (WITH 7" MINIMUM EMBEDMENT) @ 4'-0" O.C. UNLESS INDICATED OTHERWISE. PROVIDE 3"x3" x1/4" HOT-DIPPED GALVANIZED PLATE WASHERS AT ALL ANCHOR BOLTS. INDIVIDUAL MEMBERS OF BUILT-UP POSTS SHALL BE NAILED TO EACH OTHER WITH 16d NAILS @ 12" O.C. STAGGERED. REFER TO THE PLANS AND SHEAR WALL SCHEDULE FOR REQUIRED SHEATHING AND NAILING. WHEN NOT OTHERWISE NOTED. PROVIDE GYPSUM WALLBOARD ON INTERIOR SURFACES NAILED TO ALL STUDS. TOP AND BOTTOM PLATES AND BLOCKING WITH NAILS AT 7" O.C. USE 5d COOLER NAILS FOR 1/2" GWB AND 6d COOLER NAILS FOR 5/8" GWB. PROVIDE 15/32" APA RATED SHEATHING (SPAN RATING 24/0) ON EXTERIOR SURFACES NAILED AT ALL PANEL EDGES (BLOCK UNSUPPORTED EDGES), TOP AND BOTTOM PLATES WITH 8d NAILS @ 6" O.C. AND TO ALL INTERMEDIATE STUDS AND BLOCKING WITH NAILS @ 12" 0.C. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS.

C. FLOOR AND ROOF FRAMING: PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS THAT EXTEND OVER MORE THAN HALF THE JOIST LENGTH AND AROUND ALL OPENINGS IN FLOORS OR ROOFS UNLESS OTHERWISE NOTED. PROVIDE SOLID BLOCKING AT ALL BEARING POINTS.

NOTCHES AT THE END OF JOISTS AND RAFTERS SHALL NOT EXCEED 1/4 THE DEPTH OF THE MEMBER NOTCHES IN THE TOP OR BOTTOM SHALL NOT EXCEED 1/6 THE DEPTH OF THE MEMBER AND SHALL NOT BE LOCATED WITHIN THE MIDDLE 1/3 OF THE SPAN. THE DIAMETER OF ROUND HOLES BORED IN JOISTS AND RAFTERS SHALL NOT EXCEED 1/3 OF THE DEPTH OF THE MEMBER AND SHALL NOT BE LOCATED WITHIN 2" FROM THE TOP OR BOTTOM EDGE.

TOENAIL JOISTS TO SUPPORTS WITH TWO 16d NAILS. ATTACH TIMBER JOISTS TO FLUSH HEADERS OF BEAMS WITH SIMPSON METAL JOIST HANGERS IN ACCORDANCE WITH NOTES ABOVE. NAIL ALL MULTI-JOIST BEAMS TOGETHER WITH TWO ROWS OF 16d @ 12" O.C. ATTACH RAFTERS AND ROOF TRUSSES AT BEARING LINES WITH H2.5 @ 24" O.C. UNLESS OTHER METAL CONNECTIONS ARE PROVIDED.

UNLESS OTHERWISE NOTED ON THE PLANS, APA RATED ROOF AND FLOOR SHEATHING SHALL BE LAID UP WITH STRENGTH AXIS PERPENDICULAR TO SUPPORTS AND NAILED WITH NAILS @ 6" O.C. TO FRAMED PANEL EDGES AND OVER STUD WALLS AS SHOWN ON PLANS AND @ 12" O.C. TO INTERMEDIATE SUPPORTS. PROVIDE APPROVED PLYWOOD 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 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF ALL ROOF AND FLOOR SHEATHING. TOENAIL BLOCKING TO SUPPORTS WITH 16d @ 12" O.C. UNLESS OTHERWISE NOTED. AT BLOCKED FLOOR AND ROOF DIAPHRAGMS PROVIDE FLAT 2X BLOCKING AT ALL UNFRAMED PLYWOOD PANEL EDGES AND NAIL WITH EDGE NAILING SPECIFIED.

POST INSALLED ANCHORS

<u>35. POST-INSTALLED ANCHORS</u> SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REINFORCEMENT. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND ICC-ES REPORT. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER-OF-RECORD. SUBSTITUTIONS SHALL HAVE CURRENT ICC-ES APPROVAL.

CONCRETE ANCHORS

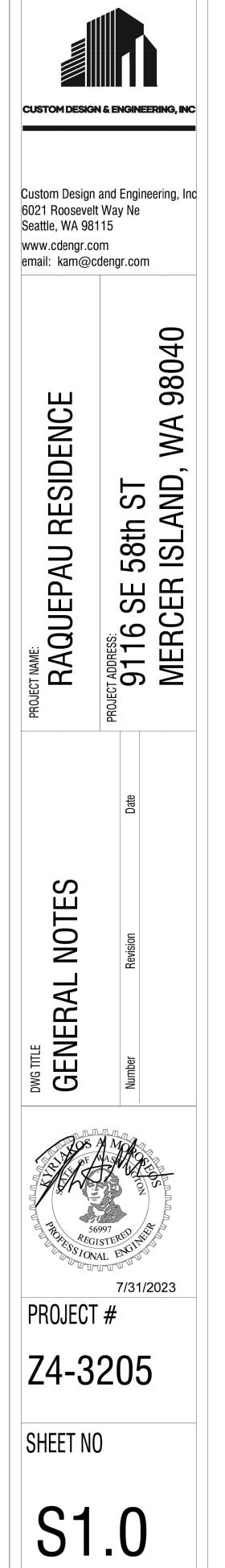
MECHANICAL ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2

AND ICC-ES AC193. PRE-APPROVED MECHANICAL ANCHORS INCLUDE: SIMPSON STRONG-TIE "STRONG-BOLT" (ICC-ES ESR-1771)

SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2713) b.

2. ADHESIVE ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC308. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:

> SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508) а SIMPSON STRONG-TIE "AT-XP" (IAPMO UES ER-263) h



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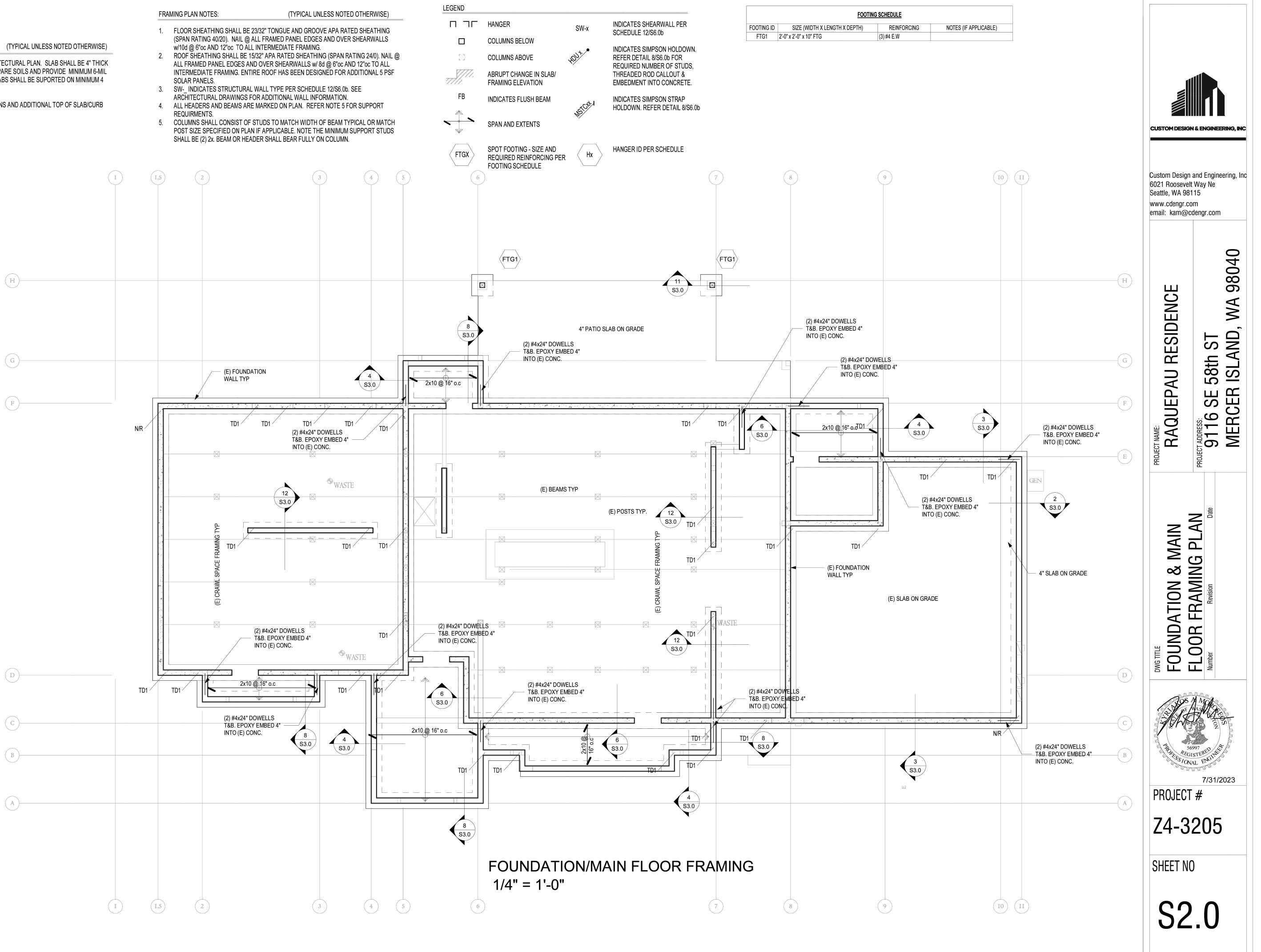
1. SLAB ON GRADE ELEVATION VARIES PER ARCHITECTURAL PLAN. SLAB SHALL BE 4" THICK WITH 6x6 W1.4xW1.4 WWM CENTERED, U.O.N. PREPARE SOILS AND PROVIDE MINIMUM 6-MIL VISQUEEN VAPOR BARRIER UNDER ALL SLABS. SLABS SHALL BE SUPORTED ON MINIMUM 4 INCHES OF FREE DRAINING MATERIAL.

2. REFER ARCHITECTURAL SHEETS FOR DIMENSIONS AND ADDITIONAL TOP OF SLAB/CURB ELEVATIONS.

(H)-

(G)-

- SOLAR PANELS.



FRAMING PLAN NOTES:

(TYPICAL UNLESS NOTED OTHERWISE)

LEGEND

- 1. FLOOR SHEATHING SHALL BE 23/32" TONGUE AND GROOVE APA RATED SHEATHING (SPAN RATING 40/20). NAIL @ ALL FRAMED PANEL EDGES AND OVER SHEARWALLS w/10d @ 6"oc AND 12"oc TO ALL INTERMEDIATE FRAMING.
- ROOF SHEATHING SHALL BE 15/32" APA RATED SHEATHING (SPAN RATING 24/0). NAIL @ 2 ALL FRAMED PANEL EDGES AND OVER SHEARWALLS w/ 8d @ 6"oc AND 12"oc TO ALL INTERMEDIATE FRAMING. ENTIRE ROOF HAS BEEN DESIGNED FOR ADDITIONAL 5 PSF SOLAR PANELS.
- 3. SW- INDICATES STRUCTURAL WALL TYPE PER SCHEDULE 12/S6.0b. SEE
- ARCHITECTURAL DRAWINGS FOR ADDITIONAL WALL INFORMATION. 4. ALL HEADERS AND BEAMS ARE MARKED ON PLAN. REFER NOTE 5 FOR SUPPORT REQUIRMENTS.
- COLUMNS SHALL CONSIST OF STUDS TO MATCH WIDTH OF BEAM TYPICAL OR MATCH 5. POST SIZE SPECIFIED ON PLAN IF APPLICABLE. NOTE THE MINIMUM SUPPORT STUDS SHALL BE (2) 2x. BEAM OR HEADER SHALL BEAR FULLY ON COLUMN.

(H)-

G)-

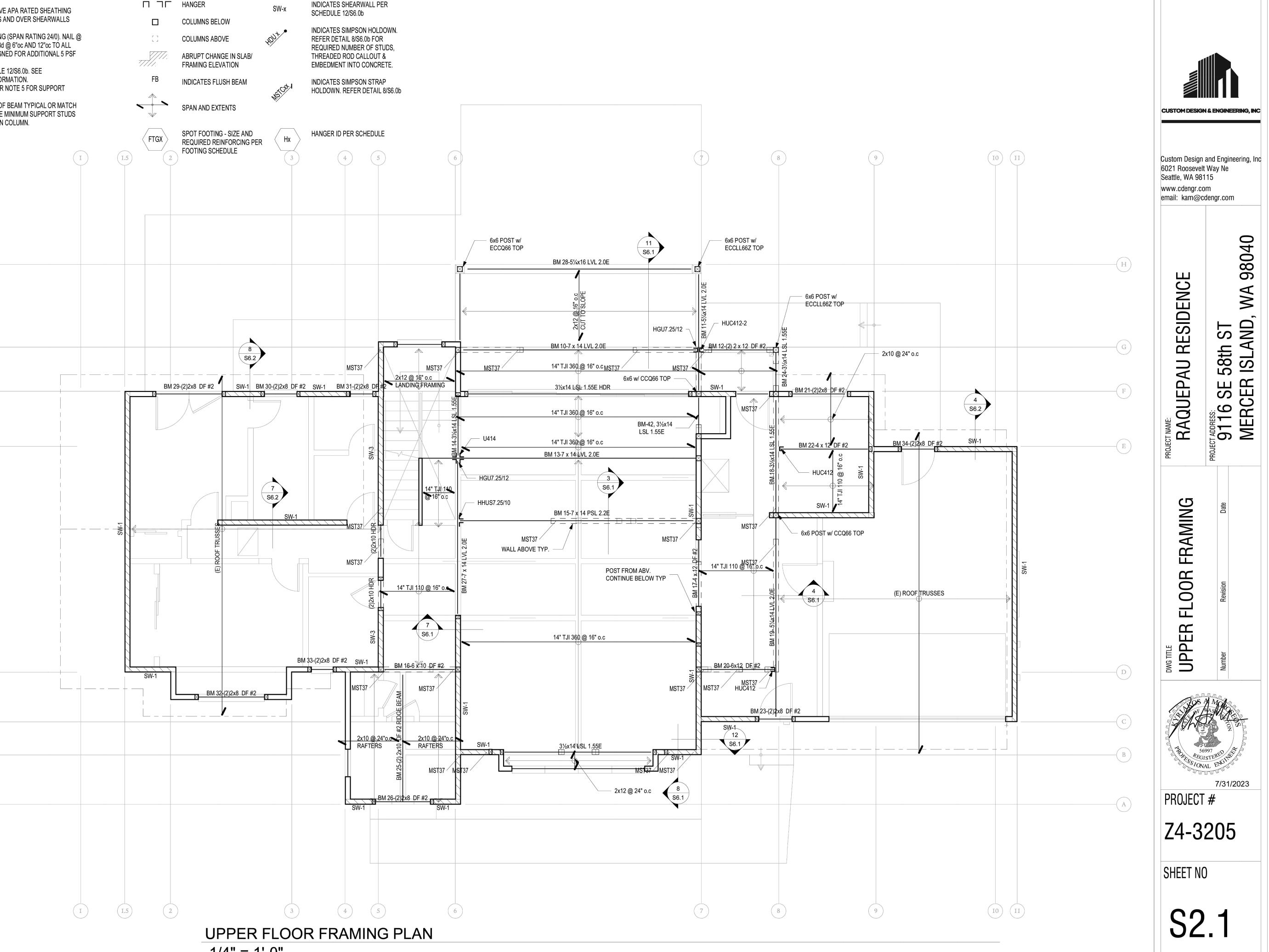
(F)-

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(D)-

B-

(A)-



1/4" = 1'-0"

	FRAMING PLAN NOTES:	(TYPICAL UNLES	SS NOTED OTHERWISE)	LEGEND			
	 (SPAN RATING 40/20). N/ w/10d @ 6"oc AND 12"oc 2. ROOF SHEATHING SHAL ALL FRAMED PANEL EDG INTERMEDIATE FRAMING SOLAR PANELS. 3. SW INDICATES STRUC ARCHITECTURAL DRAWI 4. ALL HEADERS AND BEAM REQUIRMENTS. 5. COLUMNS SHALL CONSIS POST SIZE SPECIFIED O 	LL BE 23/32" TONGUE AND GROOVE AIL @ ALL FRAMED PANEL EDGES AI TO ALL INTERMEDIATE FRAMING. L BE 15/32" APA RATED SHEATHING SES AND OVER SHEARWALLS w/ 8d @ B. ENTIRE ROOF HAS BEEN DESIGNE TURAL WALL TYPE PER SCHEDULE ^ NGS FOR ADDITIONAL WALL INFORM IS ARE MARKED ON PLAN. REFER N ST OF STUDS TO MATCH WIDTH OF N PLAN IF APPLICABLE. NOTE THE M R HEADER SHALL BEAR FULLY ON C	APA RATED SHEATHING ND OVER SHEARWALLS (SPAN RATING 24/0). NAIL @ 0 6"oc AND 12"oc TO ALL 20 FOR ADDITIONAL 5 PSF (2/S6.0b. SEE MATION. IOTE 5 FOR SUPPORT BEAM TYPICAL OR MATCH INMUM SUPPORT STUDS	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	HANGER COLUMNS BEL COLUMNS ABO ABRUPT CHAN FRAMING ELEY INDICATES FLU SPAN AND EXT SPOT FOOTING REQUIRED RE	OVE IGE IN SLAB/ VATION USH BEAM TENTS	SW-x
					FOOTING SCH	EDULE	
<u>PRE-MANUFACT</u> TRUSS DESIGN SHALL BE PREP	LOADS: 5 PSF - CHORD DESIGN LOAD = 20 PSF <u>URED TRUSSES PER SECTION</u> DRAWINGS. TRUSS CONSTRUC ARED BY A WASHINGTON STAT	TION DOCUMENTS E LICENSED ENGINEER	WISE)			2	
APPROVED PRIC SHALL INCLUDE BELOW. TRUSS	PROVIDED TO THE BUILDING OF OR TO INSTALLATION. THESE CO , AT A MINIMUM, THE INFORMAT SHOP DRAWINGS SHALL BE PR RUSSES DELIVERED TO THE JO	DNSTRUCTION DOCUMENTS ION SPECIFIED OVIDED WITH THE	H				
 LOCATION OF REQUIRED BE DESIGN LOAD TOP CHORD L TOP CHORD D TOP CHORD D BOTTOM CHO BOTTOM CHO CONCENTRATI CONTROLLIN 	EARING WIDTHS; DS AS APPLICABLE; LIVE LOAD (INCLUDING SNOW LO DEAD LOAD; DRD LIVE LOAD;	DF APPLICATION; ADS;	G				
DESIGN VALUE 12. EACH REACT 13. METAL CONI AND THE DIMEN PLATE EXCEPT RELATIVE TO TH 14. LUMBER SIZ 15. CONNECTIO 15.1. TRUSS TO 15.2. TRUSS PLY 15.3. FIELD SPEC 15.4. DRAG TRU (WHERE APPLIC 16. CALCULATED FOR LIVE AND T 17. MAXIMUM A) MEMBERS TO D OF THE PERMAN FORCES SHALL DOCUMENTS OF	FOR CONDITIONS OF USE; TION FORCE AND DIRECTION; NECTOR PLATE TYPE, SIZE, THIC ISIONED LOCATION OF EACH ME WHERE SYMMETRICALLY LOCA HE JOINT INTERFACE; E, SPECIES AND GRADE FOR EA N REQUIREMENTS FOR: TRUSS GIRDER; (TO PLY; AND CIES; JSS CONNECTION TO SHEAR WA CABLE). D DEFLECTION RATIO OR MAXIM	CKNESS OR GAGE, ETAL CONNECTOR TED ACH MEMBER; ALLS FOR THE LOADS SPECIFIED IUM DEFLECTION THE TRUSS & AND ANCHORAGE RACING. ISTRUCTION ITS; AND	E				
SUPPORTS MUS UNLESS N FOLLOWING: 1. LIG WEIGHT T 2. 15# 3. 15	ST FOLLOW TO FOUNDATION TO IOTED OTHERWISE THE ROOF S HT WEIGHT ROOF NOT EXCEED ILE, CEDAR SHAKES, COMPOSIT FELT (OR AS SPECIFIED BY AR / 32 CDX OR 1/2" OSB. NAILED T	TRUCTURE SHALL CONSIST OF THE DING 6 PSF. THIS MAY CONSIST OF: FION ROOF, LIGHT GAUGE METAL.	LIGHT WITH 10D				
 NO MODIF FRAMING/ OVER FRA 1. 2 X 2. 2 X 3. 2 X 4. 2 X REFER TO 	CALLED OUT ON THE PLAN. THIS	NGINEERED TRUSSES. NSIBILITY.	D				
			(A)				
				I	(I.5)	i)OF FF 4" – 1'

1/4" = 1'

