RENEE LUND RESIDENCE FIRE DAMAGE RESTORATION, REMODEL AND ADDITION

8520 SE 82ND ST MERCER ISLAND, WA 98040

EFFECTIVE CODES

2018 WASHINGTON STATE RESIDENTIAL CODE IRC 2018 WITH AMENDMENTS 2018 WASHINGTON STATE ENERGY CODE - RESIDENTIAL PROVISIONS IECC 2018 WITH AMENDMENTS 2018 WASHINGTON STATE MECHANICAL CODE IMC 2018 WITH AMENDMENTS 2018 WASHINGTON STATE PLUMBING CODE **UPC 2018 WITH AMENDMENTS** 2018 WASHIGNTON STATE FIRE CODE IFC 2018 WITH AMENDMENTS

CITY OF MERCER ISLAND, WA DESIGN CRITERIA

SEISMIC ZONE DESIGN WIND SPEED **GROUND SNOW LOAD** RAIN-ON-SNOW SURCHARGE RAINFALL FROST LINE DEPTH WINTER DESIGN TEMPERATURE

D2 98 mph 25 psf (SNOW DRIFT PER ASCE 7-16) 5 psf ADDED TO FLAT ROOFS PER (ASCE 7-16, SECT. 7.10) 1" /hr (UPC TABLE D101.1) 12" 24°F

PROJECT INFORMATION 362550-0210

PARCEL INFORMATION 8520 SE 82ND ST RESIDENTIAL AREA: LEGAL DESCRIPTION:

SECTION/TOWNSHIP/RANGE: NW-31-24-5 PROPERTY TYPE R-9.6 ZONING

BUILDING DESIGNER PRIMARY CONTACT:

RICH DESIGN GROUP, LLC RICH MELCHIOR, CPBD 325 WASHINGTON AVE S #403

(253) 951-8049

GENERAL NOTES

1. CONTRACTOR RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS BEFORE COMMENCEMENT OF WORK, NOTIFY THE

OWNER ABOUT ANY DISCREPANCY. 2. MECHANICAL, ELECTRICAL AND PLUMBING TO BE DESIGNED BY THE CONTRACTORS PER PRESCRIPTIVE REQUIREMENTS

3. CONTRACTOR RESPONSIBLE FOR VERIFYING UTILITY LINE LOCATIONS PRIOR TO ANY SITE OR DEMO WORK. COORDINATE WITH UTILITY COMPANIES TO DISCONNECT OR RELOCATE ANY UTILITY

LINES AS PART OF THE WORK. 4. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONS. WRITTEN DIMENSIONS TO BE VERIFIED ON SITE.

5. ALL WORK SHALL CONFORM TO THE 2021 IBC/IRC, AND/OR THE LATEST EDITION OF ALL OTHER APPLICABLE CODES. 6. ALL INTERIOR WALLS TO 2x4" U.N.O.

INSTALL SMOKE ALARMS THAT COMPLY WITH NFPA 72 AND SECTION R314 OF THE 2021 IRC •

NEAR EACH SEPARATE SLEEPING AREA IN EACH SLEEPING ROOM

IN EACH STORY OF DWELLING UNIT

BUT NOT WITHIN 3FT OF DOOR/OPENING TO BATHROOM THAT CONTAINS A BATHTUB OR SHOWER.

INSTALL CARBON MONOXIDE ALARMS (REF IRC SEC. R315) NEAR EACH SLEEPING AREA IN EACH STORY OF DWELLING UNIT

EGRESS WINDOWS TO BE

MIN. 20"(W) x 24"(H) AND 5.7 SF MIN. CLEAR OPENING • WINDOW SILL HEIGHT MAX. 44" ABOVE FINISHED FLOOR (REF. IRC SECTION R310.2.2)

FIRE SUPPRESSION NOTES

AN APPROVED AUTOMATIC MULTI-PURPOSE/FLOW-THRU FIRE SPRINKLER SYSTEM SHALL BE INSTALLED THROUGHOUT ALL PORTIONS OF THE RESIDENCE IN ACCORDANCE WITH NFPA 13D AND RFDS 5.0. A 1" METER SHALL BE PROVIDED TO MEET BOTH DOMESTIC AND FIRE SPRINKLER DEMANDS.

FLOOR PLAN NOTES

BATHROOM FIXTURES CLEARANCE

- PER IRC R307 21" IN FRONT OF SINK/TOILET/TUB •
- 24" IN FRONT OF SHOWER OPENING •
- 15" BETWEEN WALL AND TOILET OR TUB O.C. PROVIDE NON ABSORBENT SURFACE FOR TUB AND SHOWER • MIN. 6FT ABOVE FINISHED FLOOR (REF. IRC R307.2)

OBSERVE BATHROOM HEIGHT OF

80" HEAD HEIGHT AT FRONT OF TOILET • 80" ABOVE AN AREA OF 30" x 30" AT THE SHOWER HEAD •

STAIRWAYS TO BE

- PROVIDED WITH ARTIFICIAL LIGHT SOURCE •
- INTERIOR: TO ILLUMINATE LANDINGS AND TREADS.
- EXTERIOR: LOCATED AT THE TOP LANDING OF STAIRWAY. **DIMENSIONS:** MIN. WIDTH 36"; MIN. HEADROOM 6'-8"; MAX RISER 7 ³/₄"; MAX. VARIANCE ³/₈"; MIN. TREAD DEPTH 10"; (REF. IRC R311.7.1)
- NOSING BETWEEN 3/4 1 1/4, MAX VARIANCE 3/8", MAX BEVELING ¹/₂" (REF. IRC R311.7.5.3) PROVIDE HANDRAIL AT LEAST ONE SIDE OF STAIRS WITH MORE
- THAN 3 RISERS (REF. IRC R311.7.8) OPEN SIDES OF STAIRS GREATER THAN 30" ABOVE
- FLOOR/GROUND SHALL HAVE GUARDS AT MIN. HEIGHT OF 34"
- MEASURED VERTICALLY FROM NOSING (REF. IRC R312) SPINDLES/BALUSTERS TO SPACED SO THAT A 4" SPHERE WILL NOT PASS THROUGH.
- PROVIDE MIN. 1/2" GYPSUM WALL BOARD ON UNDERSTAIR SURFACES AND ENCLOSED WALLS OF ACCESSIBLE SPACE UNDER STAIRS (REF. IRC R302.7)

WHOLE HOUSE VENTILATION SYSTEM

- Exempt: Addition less than 500 sq.ft. or Remodel only. Exhaust fan with 24-hr timer and fresh air inlets in each habitable room per IRC M1505.4.1.2 Integrated with forced air system per IRC M1505.4.1.5
- Supply fan per IRC M1505.4.1.3 X Balanced Supply and Exhaust fans per IRC M1505.4.1.4 Engineered design complying with IMC section 403.8.10.
- Specify location of Whole House Fan: UPPER FLOOR ATTIC SPACE Size: 35 cfm 24 hrs./day

MERCER ISALND, WA 98040

062-009 (SW APPRAISAL DISTRICT)

LOT 21, ISLAND POINT, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 75 OF PLATS, PAGE 88, **RECORDS OF KING COUNTY, WASHINGTON**

KENT, WA 98032

richdesign1@comcast.net

SMOKE, CO2 AND HEAT DETECTION NOTES

Smoke alarms shall be installed in the following locations: 1. In each sleeping room or sleeping loft.

Outside each separate sleeping area in the immediate vicinity of the bedrooms.

On each additional story of the dwelling, including basements and habitable attics but not including crawl spaces and uninhabitable attics. In dwellings or dwelling units with split levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower

level is less than one full story below the upper level. Smoke alarms shall be installed not less than 3 feet (914 mm) horizontally from the door or opening of a bathroom that contains a bathtub or shower unless this would prevent placement of a smoke alarm required by Section R314.3.

CO alarm installation requirements

1. Alarms must be located outside of each separate sleeping area, in the

immediate vicinity of the

bedroom and on each level of the residence. 2. Single station carbon monoxide alarms must be listed as complying with UL

2034, and installed in

accordance with the code and the manufacturer's instructions. Combined CO and smoke alarms are permitted.

Heat Detection in New Garages

A heat detector or heat alarm rated for the ambient outdoor temperatures and humidity shall be installed in new garages that are attached to or located under new and existing dwellings. Heat detectors and heat alarms shall be installed in a central location and in accordance with the manufacturer's instructions.

SYMBOLS LEGEND

DETAIL CALLOUT 1 detail number $5-105 \quad \bigstar$ Sheet where detail is drawn ELEVATION, SECTION, & DETAIL CALLOUT — DETAIL NUMBEI A-301 – SHEET NUMBER — DIRECTION OF VIEW

DOOR TAG WINDOW TAG

(101)

101

2x6

S/C

SG

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WALL TAG – WALL TYPE, SEE WALL DETAILS ON SHEET A-401

SMOKE AND CARBON DIOXIDE DETECTOR

INDICATES SAFETY GLAZING

<u>HEAT DETECTOR</u>

<u>EXHAUST FAN</u>

<u>NEW ADDED WALL</u>

EXISTING WALL

WALL TO BE DEMOLISHED AND REMOVED

ARCHITECTURAL A-001 A-001a A-002 AREA PLANS A-003 A-004 A-101 SITE PLAN A-101a A-102 A-103 A-104 A-105 A-106 ROOF PLAN A-201 **ELEVATIONS** ELEVATIONS A-202 A-301

<u>STRUCTURAL</u>

A-302

A-401

A-402

A-501

51	GENER
52	BASEM
53	FRAMIN
54	FRAMIN
55	ROOF F
56	SECTIO
57	SECTIO
58	SECTIO
59	LOWER
510	MAIN A
<u>SURVEY</u>	

Γ1	TOPOGI
<u>EROSION</u>	<u>AND SEDIM</u>

TESC01 TESC02

Balanced and Distributed Balanced and NOT Distributed NOT balanced and Distributed ____ NOT balanced and NOT distributed



SHEET INDEX

COVER SHEET AND PROJECT INFORMATION PROIECT NOTES ENERGY CODE AND VICINITY MAP **3D EXTERIOR VIEWS 3D INTERIOR VIEWS** SITE DEVELOPMENT CALCULATIONS FOUNDATION PLAN LOWER FLOOR PLAN MAIN FLOOR PLAN UPPER FLOOR PLAN **BUILDING SECTIONS BUILDING SECTIONS** STAIR SECTIONS CONSTRUCTION DETAILS **SCHEDULES**

> AL STRUCTURAL NOTES IENT / FOUNDATION PLAN NG ABOVE LOWER FLOOR NG ABOVE MAIN FLOOR /LOWER ROOF FRAMING FRAMING FOR 2ND STORY ADDITION ONS AND DETAILS ONS AND DETAILS ONS AND DETAILS R LEVEL SHEAR WALL PLAN AND UPPER LEVELS SHEAR WALL PLANS

RAPHIC SURVEY

<u>IENT CONTROL</u>

SITE TESC PLAN SITE TESC DETAILS

AREA SUMMARY		
NOTE: CONDITIONED SPACE MEASUREL OF EXTERIOR FRAMING & HEAD) FROM EXTERIOR SURFACES) HEIGHT ABOVE 48".	
ADDED ADU BUILDING FOOTPRINT	567 SF	
ADDED SUN ROOM BUILDING FOOTPRINT	172 SF	
COVERED DECK	105 SF	
	844 SF	
OUTSIDE ADU STAIRS	88 SF	
EXISTING CONDITIONED SPACE	88 SF	
BASEMENT MECHANICAL	426 SF	
EXISTING FAMILY ROOM	364 SF	
EXISTING MAIN FLOOR	1417 SF	
LOWER FLOOR	1354 SF	
FLOOR SPACE ADDED	3560 SF	
ADDED MAIN FLOOR SPACE	60 SF	
MAIN FLOOR SUN ROOM ADDITION	172 SF	
NEW FOYER	99 SF	
OUTDOOR SPACE	331 SF	
EXISTING COVERED ENTRY WALKWAY	207 SF	
EXISTING MAIN FLOOR DECK	428 SF	
LOWER FLOOR COVERED PATIO	432 SF	
	1068 SF	
UNHEATED SPACE		
EXISTING GARAGE	529 SF	
	529 SF	
	775 CE	
MASTER SUITE ADDITION	661 SE	
THIRD STORY STAIRS	117 SF	
	1553 SF	

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Rich Design

Group

(253) 951-8049

www.richdesigngroup.com

richdesign1@comcast.net

NO



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EXISTING HOUSE ENERGY COMPLIANCE NOTES

Description of Primary Heating Source

Table 406.2 OPTION 1 (b)

Combustion heating equipment meeting minimum NAECA federal efficiency standards for the equipment b. Equipment listed in Table C403.3.2(4) or C403.3.2(5)

AIR LEAKAGE CONTROL AND EFFICIENT VENTILATION OPTIONS Table 406.3 OPTION 2.4

Compliance based on Section R402.4.1.2:

Reduce the tested air leakage to 0.6 air changes per hour maximum at 50 Pascals or

For R-2 Occupancies, optional compliance based on Section R402.4.1.2: Reduce the tested air leakage to 0.15 cfm/ft2

maximum at 50 Pascals

and

All whole house ventilation requirements as determined by Section M1505.3 of the International Residential Code or Section 403.8 of the International Mechanical Code shall be met with a heat recovery ventilation system with minimum sensible heat recovery efficiency of 0.80. Duct installation shall comply with Section R403.3.7.

HIGH EFFICIENCY HVAC EQUIPMENT OPTIONS

Table 406.3 OPTION 3.1a

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%.

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.

UPPER FLOOR ADDITION AND ADU ENERGY COMPLIANCE NOTES

Description of Primary Heating Source Table 406.2 OPTION 2 (c)

Ductless Heat Pump

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

EFFICIENT BUILDING ENVELOPE OPTIONS

Table 406.3 OPTION 1.7 Compliance with the conductive UA targets is demonstrated using Section R402.1.4. Total UA alternative, where

[1-(Proposed UA/Target UA)] > the required %UA reduction Advanced framing and raised heel trusses or rafters

Vertical Glazing U-0.28 R-49 Advanced (U-0.020) as listed in Section A102.2.1, Ceilings below a vented attic

and

R-49 vaulted ceilings with full height of uncompressed insulation extending

over the wall top plate at the eaves.

AIR LEAKAGE CONTROL AND EFFICIENT VENTILATION OPTIONS Table 406.3 OPTION 2.1

Compliance based on Section R402.4.1.2:

Reduce the tested air leakage to 0.6 air changes per hour maximum at 50 Pascals

or

For R-2 Occupancies, optional compliance based on Section R402.4.1.2: Reduce the tested air leakage to 0.3 cfm/ft2 maximum at 50 Pascals and

All whole house ventilation requirements as determined by Section M1507.3 of the International Residential Code or Section 403.8 of the International Mechanical Code shall be met with a 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, the maximum tested building air leakage, and shall show the qualifying ventilation system and its control sequence of operation.

HIGH EFFICIENCY HVAC EQUIPMENT OPTIONS

Table 406.3 OPTION 3.6

Ductless split system heat pumps with no electric resistance heating in the primary living areas. 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.

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).

HIGH EFFICIENCY HVAC EQUIPMENT OPTIONS

Table 406.3 OPTION 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 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.

EFFICIENT WATER HEATEING OPTIONS

Table 406.3 OPTION 5.4

Water heating system shall include one of the following: 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 recirculation piping shall be insulated with R-8 minimum pipe insulation.

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.

APPLIANCE PACKAGE OPTION

Table 406.3 OPTION 7.1 All of the following appliances shall be new and installed in the dwelling unit and shall meet the following standards: Dishwasher - Energy Star rated Refrigerator (if provided) - Energy Star rated Washing machine - Energy Star rated

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

HIGH EFFICIENCY HVAC EQUIPMENT OPTIONS

Table 406.3 OPTION 4.1 All supply and return ducts located in an unconditioned attic shall be deeply buried in ceiling insulation in accordance with Section R403.3.7. For mechanical equipment located outside the conditioned space, a maximum of 10 linear feet of return duct and 5 linear feet of supply duct connections to the equipment may be outside the deeply buried insulation. All metallic ducts located outside the conditioned space must have both transverse and longitudinal joints sealed with mastic. If flex ducts are used, they cannot contain splices.

Duct leakage shall be limited to 3 cfm per 100 square feet of conditioned floor area.

Air handler(s) shall be located within the conditioned space.

EFFICIENT WATER HEATEING OPTIONS

Table 406.3 OPTION 5.4

Water heating system shall include one of the following: 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 recirculation piping shall be insulated with R-8 minimum pipe insulation.

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.

APPLIANCE PACKAGE OPTION

Table 406.3 OPTION 7.1 All of the following appliances shall be new and installed in the dwelling unit and shall meet the following standards:

Dishwasher - Energy Star rated

Refrigerator (if provided) - Energy Star rated

Washing machine - Energy Star rated Dryer - Energy Star rated, ventless dryer with a minimum CEF rating of 5.2.

PROJECT LOCATION



PROJECT LOCATION

8520 SE 82nd ST MERCER ISLAND, WA 98040



VICINITY MAP



www.richdesigngroup.com richdesign1@comcast.net

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GRAND TOTAL

AREA - EXISITNG M

ACCESSORY STRUCTURE ROOF EXISITNG GARAGE ROOF AREA

MAIN STRUCTURE ROOF EXISITNG FAMILY ROOM ROOF AREA EXISTING ENTRY ROOF AREA EXISTING MAIN FLOOR ROOF AREA

TOTAL EXISTING ROOF AREA

5 EXISTING ROOF AREA 1/8" = 1'-0"

	NOTE: CONDITIONED SPACE MEASURED FRAMING & HEAD HEIGHT ABC
	OUTSIDE ADU STAIRS
	EXISTING CONDITIONED SPACE
	BASEMENT MECHANICAL
	EXISTING FAMILY ROOM
	EXISTING MAIN FLOOR
	LOWER FLOOR
	FLOOR SPACE ADDED
	ADDED MAIN FLOOR SPACE
	MAIN FLOOR SUN ROOM ADDITION
	NEW FOYER
	UPPER FLOOR ADDITION
	AADU ADDITION
	MASTER SUITE ADDITION
	THIRD STORY STAIRS
FOOTPRINT	AREA - OUTDOOR SH
FOOTPRINT	AREA - OUTDOOR SH
FOOTPRINT	AREA - OUTDOOR SH UNHEATED SPACE
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ADDITION AND LUND RESIDENCE 8520 SE 82ND ST MERCER ISLAND, WA 98040 REMODEL -RESTORATION RENEE MAGE AN FIRE

Rich Design Group

(253) 951-8049

www.richdesigngroup.com richdesign1@comcast.net

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88 SF 88 SF

426 SF

364 SF

1417 SF

1354 SF

3560 SF

60 SF 172 SF

99 SF 331 SF

775 SF 661 SF 117 SF

1553 SF

5532 SF

529 SF 529 SF

207 SF 428 SF

432 SF 1068 SF

88 SF

88 SF

567 SF

172 SF

105 SF

844 SF

2529 SF

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SCALE SHEET A-003

DATE 12/3/2023 12:08:03 PM

PROJECT #

Rich Design Group

(253) 951-8049 www.richdesigngroup.com richdesign1@comcast.net



1 MAIN ROOM FROM ENTRY INTERIOR VIEW



4 STAIRS FROM KITCHEN INTERIOR VIEW





2 MAIN ROOM DOWN HALLWAY INTERIOR VIEW







5 FAMILY ROOM AT STAIRS INTERIOR VIEW











ADDITION AND **RENEE LUND RESIDENCE** REMODEL , 8520 SE 82ND ST MERCER ISLAND, WA 98040 -AGE RESTORATION \cap FIRE

VIEWS INTERIOR 3D

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CONTRACTORS TO FIELD VERIFY ALL EXISTING CONDITIONS SUCH AS
AREAS, MEASUREMENTS AND DIMENSIONS, CEILING HEIGHTS, ROOF
PITCHES AND EXISTING FRAMING (BEAMS , JOISTS AND OTHER
FRAMING MEMBER SIZES, ETC.)

PROPERTY INFORMATION

8520 SE 82ND ST MERCER ISLAND, WA 98040

PARCEL NUMBER: 362550-0210

LEGAL DESCRIPTION: LOT 21, ISLAND POINT, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 75 OF PLATS, PAGE 88, RECORDS OF KING COUNTY, WASHINGTON

TOWNSHIP RANGE: NW-31-24-5

ZONING: R-9.6 MIN. BUILDING SETBACKS: FRONT MINIMUM SIDE INTERIOR

REAR SETBACK

20' 15' TOTAL MIN. 5' OF EITHER SIDE 25'

MAXIMUM LOT COVERAGE FOR STRUCTURES (GROSS FLOOR AREA)

8,000 SQFT OR 40%

30FT

MAXIMUM BUILDING HEIGHT (FROM FINISHED GRADE TO TOP OF EXTERIOR WALL)

LOT SIZE: 11,828 SF, 0.27 ACRES

LOT COVERAGE BY STRUCTURE:

EXISITING HOUSE, ADDED BUILDING FOOTPRINT AND EXISTING GARAGE:

EXISTING HOUSE LOT COVERAGE	3,560 SQFT
NEW ADDITION TO HOUSE	
(TOTAL ADDED BUILDING FOOTPRINT)	739 SQFT
TOTAL STRUCTURES SQUARE FEET	4,299 SQFT
GROSS LOT SQUARE FOOTAGE	11,828 SQFT
PERCENTAGE OF LOT COVERAGE	36 %
EVICTING IMPERVIAUS SUDEACE COVERAGES.	

3,321 SQFT PAVER DRIVEWAY AND ENTRY AREA <u>538 SQFT</u> PAVER AREA ON OPPOSITE SIDE 3,859 SQFT

SYMBOLS LEGEND

	PROPERTY LINE				
	<u>SETBACK</u>			<u>S</u>	
	FOUNDATION BUILDING FOOTPRINT				
	<u>SEWER LINE</u>				
	FOOTING DRAIN - 4" PVC TIGHTLINE				
	<u>ROOF DRAIN - 4" PVC</u>				
	HARDSCAPE BOUNDRY			DRAWN BY	PHF
				PROJECT #	
	<u>PLANTING AREA</u>			DATE 1/14/2	2024 1:19:52 PM
		AREA - ADDED FOOT	PRINT		
/	DRIWELL	ADDED BUILDING FOOTPRINT		SH	EET
		ADDED ADU BUILDING FOOTPRINT	567 SF	Λ	
	<u>DOWNSPOUT</u>	FOOTPRINT	172 SF	\mathbf{A}_{-}	
		OUTSIDE ADU STAIRS	88 SF		
			827 SF		
		GRAND TOTAL	827 SF		

Rich Design Group (253) 951-8049

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	INS				
		44.000		6 - -	
A. Gross Lot Area		11,828		Square Feet	
B. Net Lot Area	\rea	4 731		Square Feet	
D Allowed Lot Coverage	n ca	40		% of Lot	
E. Existing Lot Coverage:				/	
1. Main Structure Ro	oof Area	2,689		Square Feet	
2. Accessory Buildin	g Roof Area	887		Square Feet	
3. Vehicular Use (dri	veway, paved access				
easements [portion	on used by the lot for access],				
parking		3,321		Square Feet	
4. Covered Patios ar	Id Covered Decks	432		Square Feet	
F (Total Lot Coverage Are	Coverage Area (EI+EZ+ES+E4)	0		Square Feet	
G. Proposed Adjustment f	or Single Story (Area)	0		Square Feet	
H. Proposed Adjustment f	or Flag Lot	0		Square Feet	
I. Total New Lot Coverage	e Area:			- 1	
1. Main Structure Ro	oof Area	4,073		Square Feet	
2. Accessory Structu	re Roof Area	535		Square Feet	
3. Vehicular Use	(driveway, paved access				
easement [portio	n used by the lot for access],	,			
parking)		3,321		Square Feet	
4. Covered Patios ar	Id Covered Decks	537		Square Feet	
5. Total New Lot Cov	2 = 2 + 12 + 13 + 14	8,430		Squara East	
K Proposed Lot Coverage	Age Area = (LS - F) + IS $Area = (I/R) \times 100$	75 3		% of Lot	
K. FTOPOSEU LOT COVETAGE	Alea - (J/D/ X 100	10.0			
Lot coverage calculations sho	own on Plan Sheet #	A-101a			
HARDSCAPE CALCULATIONS	5				
A Gross Lot Aroa		11 828		Squara East	
R Net Lot Δrea		11,820		Square Feet	
C. Area Borrowed from L	ot Coverage	0		Square Feet	
D. Allowed Hardscape Are	ea = 9% of lot area + C	9		% of Lot	
E. Allowed Hardscape Are	23	1,064		Square Feet	
F. Total Existing Hardscap	be Area:			·	
1. Uncovered Decks	;	428		Square Feet	
2. Uncovered Pation	5	538		Square Feet	
3. Walkways				Square Feet	
4. Stairs				Square Feet	
5. Rockeries and Re	taining Walls	425		Square Feet	
6. Other GRAVEL AREA	· · · · · · · · · · · · · · · · · · ·	256		Square Feet	
7. Total Existing Hai	dscape Area	4 6 4 7		Courses Foot	
(F1+F2+F3+F4+F5	p+rb) Removed	704		Square Feet	
H Total New Hardscape Area	Area.			Square reet	
1. Uncovered Decks	5 S			Square Feet	
2. Uncovered Pation	5			Square Feet	
3. Walkways				Square Feet	
4. Stairs		88		Square Feet	
5. Rockeries and Re	taining Walls			Square Feet	
6. Other				Square Feet	
7. Total New Hardso	cape Area				
(H1+H2+H3+H4+	H5+H6)	88		Square Feet	
I. Total Project Hardscap	e Area = (F7 - G) + H7	941		Square Feet	
J. Total Project Hardscap	e Area = (I/B)x100	8.4		% of Lot	
GROSS FLOOR AREA CALC	ULATIONS				
	Evicting Area D	Anco	dition Arra	- -	
Building Area	Existing Area Removed	Area New/Add		I OT	
Main Floor	Sq. Ft	Sq. Ft. <u>355</u>	Sq. Ft.	1 772	- Sq. Fl. Sa Ft
Gross Basement Area	1.308 Sq. Ft.	Sq. Ft.	Sq. Ft.	1.308	Sa. Ft.
Garage/ Carport	Sq. Ft.	Sq. Ft.	Sq. Ft.		Sq. Ft.
Total Floor Area	2,725 Sq. Ft.	Sq. Ft. 1,016	Sq. Ft.	3,741	Sq. Ft.
Accessory Buildings	408 Sq. Ft.	Sq. Ft.	Sq. Ft.	408	Sq. Ft.
Accessory Dwelling Unit	Sa Ft	Sa Et 775	Sa Et	775	Sa Ft
2 nd & 3 rd Story Roofed	39.10	5q. r.t	59.11.		_ 99.10
Decks	Sq. Ft.	Sq. Ft.	Sq. Ft	105	Sq. Ft
Basement Area	Sq. Ft.	Sq. Ft.	Sq. Ft.		Sq. Ft.
Excluded	426				_
150% GFA Modifier*	Sq. Ft.	Sq. Ft.	Sq. Ft.		Sq. Ft.
(main and upper floor					
x2)	364			364	-
200% GFA Modifier*	Sq. Ft.	Sq. Ft.	Sq. Ft.		Sq. Ft.
(main and upper floor					
Λ-) Staircase GFA Modifier*	Sa Ft	Sa. Ft	 Sa Ft		Sa Ft
(x2 for a three story	J. I. I.	og. , t.	Jy. Fl.		Jy. Fl.
staircase, x3 for a four					
story staircase)	117			117	
TOTAL Building Area	Sq. Ft	Sq. Ft.	Sq. Ft.	5,510	Sq. Ft.
*Enter the actual room ar	ea				_ •
Δ Lot Area				Sanara Ea	et
	□ R-9.6 ₪	R-12 □	R-15		
C. Allowed Gross Floor	Area (refer to "allowed GFA")	8,000	N-TA	LI Square Fe	et
D. Allowed Gross Floor	Area	45		% of Lot	
E. Proposed Gross Floc	or Area	5,510		Square Fe	et
F. Proposed Gross Floc	or Area	46.6		% of Lot	

LOT SLOPE CALCULATIONS

Highest Elevation Point of Lot Lowest Elevation Point of Lot: **Elevation Difference:** Horizontal Distance Between Lot Slope*

*Lot slope is the ele incipited by 1 Lot slope calculations shown on Sheet # <u>A-101a</u>

BUILDING HEIGHT CALCULATIONS

- A. Average Building Elevation
- B. Allowable Building Height
- C. Proposed Building Height
- D. Benchmark Elevation*
- E. Describe Benchmark Locat
- F. Sloping lot (Downhill side)
 - above lowest existing grade (30-ft max)

AVERAGE GRADE AND BUILDING ELEVATIONS

MIDPOINT ELEVATION

FOIN	
A =	322'
B =	324'
C =	325'
D =	325'
E =	327'
F =	328'
G =	327'
H =	322'
=	319'
J = 1	319'
K =	321'

AVERAGE FINISHED GRADE:

 $= \frac{322(10)+324(11)+325(34)+325(23)+327(23)+328(23)+327(23)+322(29)+319(16)+319(12)+321(54)}{257'}$

PROPOSED BUILDING HEIGHT:

. .	220.00	Faat
	320.90	reet
:	315.50	Feet
	13.48	Feet
High and Low Points:	92.1	Feet
	14.64	%
levation difference div	ided by horizontal distance multiplied by 100.	

on (ABE) calculations located on sheet #:	A-101a	
t (ABE + 30 ft.)	30	Feet
:	27' - 10 3/4"	Feet
	320'	Feet
ation (must be undisturbed throughout project)	Lower benchmark located in the m	iddle front at lower floor patio
e)- maximum height of top of exterior wall façade		
de (30-ft max)	28' - 0 3/4'	Feet

WALL SEGMENT LENGTH 10'

10
11'
34'
23'
23'
23'
23'
29'
16'
12'
54'

= <u>3220+3564+11050+7475+7521+7544+7521+9338+5104+3828+17334</u> 257'

= 324.9'= $324'-10^{3}_{4}$ " AVERAGE BUILDING ELEVATION

TOP OF RIDGE FROM AVERAGE BUILDING ELEVATION (ABE) = 352'-9 1/2"

352'-9 ¹/₂" - 324'-10 ³/₄" = **27' - 10** ³/₄" **PROPOSED BUILDING HEIGHT**

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ADDITION AND SIDENCE T \ 98040 REMODEL 8520 SE 82ND ST CER ISLAND, WA Ш С TION LUND TORA RENEE . S ЦЦ Ш C 4 AN \square FIRE

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SITE DEVELOPMENT CALCULATIONS

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CONTRACTORS TO FIELD VERIFY ALL EXISTING CONDITIONS SUCH AS AREAS, MEASUREMENTS AND DIMENSIONS, CEILING HEIGHTS, ROOF PITCHES AND EXISTING FRAMING (BEAMS, JOISTS AND OTHER FRAMING MEMBER SIZES, ETC.)

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FIRE DAMAGE RESTORATION , REMODEL AND ADDITION 8520 SE 82ND ST MERCER ISLAND, WA 98040

FOUNDATION PLAN





EXISTING HOUSE ENERGY COMPLIANCE NOTES

Description of Primary Heating Source

Table 406.2 OPTION 1 (b)

Combustion heating equipment meeting minimum NAECA federal efficiency standards for the equipment b. Equipment listed in Table C403.3.2(4) or C403.3.2(5)

AIR LEAKAGE CONTROL AND EFFICIENT VENTILATION OPTION

Table 406.3 OPTION 2.4

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

or For R-2 Occupancies, optional compliance based on Section R402.4. Reduce the tested air leakage to 0.15 cfm/ft2 maximum at 50 Pascals

and

All whole house ventilation requirements as determined by Section M¹ of the International Residential Code or Section 403.8 of the Internation Mechanical Code shall be met with a heat recovery ventilation system minimum sensible heat recovery efficiency of 0.80. Duct installation s comply with Section R403.3.7.

HIGH EFFICIENCY HVAC EQUIPMENT OPTIONS Table 406.3 OPTION 3.1a

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 A of 90%.

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

FIRE SUPPRESSION NOTES

AN APPROVED AUTOMATIC MULTI-PURPOSE/FLOW-THRU FIRE SPRINKLER SYSTEM SHALL BE INSTALLED THROUGHOUT ALL PORTIONS OF THE RESIDENCE IN ACCORDANCE WITH NFPA 13D AND RFDS 5.0. A 1" METER SHALL BE PROVIDED TO MEET BOTH DOMESTIC AND FIRE SPRINKLER DEMANDS.

UNDER STAIR FIRE PROTECTION

UNDER STAIRS ENCLOSED, ACCESSIBLE SPACES REQUIRES 1/2" GYPSUM WALL BOARD APPLIED TO THE INTERIOR OF THE ENCLOSED SIDE, PER IRC R302.7

MECHANICAL VENTILATION SYSTEM

VENT FANS SHALL TERMINATE AT THE EXTERIOR OF THE BUILDING (REF. IRC M1502.3) INSULATE ALL DUCTS OUTSIDE OF CONDITIONED SPACE PER WASHIGNTON STATE ENERGY CODE.

SYMBOLS LEGEND

\frown	<u>DETAIL CALLOUT</u>
1	- DETAIL NUMBER
<i>S</i> -105	- SHEET WHERE DETAIL IS DRAWN
	ELEVATION. SECTION. & DETAIL CALLOUT
	- DETAIL NUMBER
A-301	- SHEET NUMBER
\mathbf{h}	DIRECTION OF VIEW
(101)	DOOR TAG
101	<u>WINDOW TAG</u>
226	WALL TAG
2240	- WALL TYPE, SEE WALL DETAILS ON SHEET A-401
S/C	SMOKE AND CARBON DIOXIDE DETECTOR
SG	INDICATES SAFETY GLAZING
Ĥ	HEAT DETECTOR
\bigotimes	<u>EXHAUST FAN</u>
	NEW ADDED WALL
	EXISTING WALL
	WALL TO BE DEMOLISHED AND REMOVED

CONTRACTORS TO FIELD VERIFY ALL EXISTING CONDITIONS SUCH AS AREAS, MEASUREMENTS AND DIMENSIONS, CEILING HEIGHTS, ROOF PITCHES AND EXISTING FRAMING (BEAMS , JOISTS AND OTHER FRAMING MEMBER SIZES, ETC.)

	HIGH EFFICIENCY HVAC EQUIPMENT OPTIONS Table 406.3 OPTION 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
IS	Electric resistance heat and ductless heat pumps are not permitted under this option.
at 50	Direct combustion heating equipment with AFUE less than 80% is not permitted under this option.
.1.2:	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
I1505.3 onal n with shall	EFFICIENT WATER HEATEING OPTIONS Table 406.3 OPTION 5.4 Water heating system shall include one of the following: Electric heat pump water heater meeting the standards for Tier I of NEEA's advanced water heating specification
1	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 recirculation piping shall be
AFUE	Insulated with R-8 minimum pipe insulation. To qualify to claim this credit, the building permit drawings shall specify the
ify the nd the	option being selected and shall specify the water heater equipment type and the minimum equipment efficiency.
	APPLIANCE PACKAGE OPTION Table 406.3 OPTION 7.1 All of the following appliances shall be new and installed in the dwelling unit and shall meet the following standards: Dishwasher - Energy Star rated Refrigerator (if provided) - Energy Star rated Washing machine - Energy Star rated Dryer - Energy Star rated, ventless dryer with a minimum CEF rating of 5.2.
	SMOKE, CO2 AND HEAT DETECTION NOTES

Smoke alarms shall be installed in the following locations:

In each sleeping room or sleeping loft.

2. Outside each separate sleeping area in the immediate vicinity of the bedrooms. 3. On each additional story of the dwelling, including basements and habitable attics but not including crawl spaces and uninhabitable attics. In dwellings or dwelling units with split levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story below the upper level.

4. Smoke alarms shall be installed not less than 3 feet (914 mm) horizontally from the door or opening of a bathroom that contains a bathtub or shower unless this would prevent placement of a smoke alarm required by Section R314.3.

CO alarm installation requirements

1. Alarms must be located outside of each separate sleeping area, in the

immediate vicinity of the bedroom and on each level of the residence.

2. Single station carbon monoxide alarms must be listed as complying with UL

2034, and installed in

accordance with the code and the manufacturer's instructions. 3. Combined CO and smoke alarms are permitted.

Heat Detection in New Garages

A heat detector or heat alarm rated for the ambient outdoor temperatures and humidity shall be installed in new garages that are attached to or located under new and existing dwellings. Heat detectors and heat alarms shall be installed in a central location and in accordance with the manufacturer's instructions.

ROOM SCHEDULE					
NOTE: ROOM AREA MEASURED FROM INTERIOR OF STUD WALL OR					
Number	Name	Area			
LOWER LE	VEL FIN FLR				
100	BASEMENT MECHANICAL ROOM	314 SF			
101	BEDROOM SUITE	220 SF			
102	BATH	72 SF			
103	WALK-IN CLOSET	47 SF			
104	OFFICE	109 SF			
104	BEDROOM	132 SF			
105	BEDROOM	131 SF			
106	BEDROOM	165 SF			
107	HALL	180 SF			
108	HALL CLOSET	19 SF			
109	BATHROOM	71 SF			
MAIN FLOO	OR FIN FLR				
201	NEW FOYER	66 SF			
202	EXISTING MAIN ROOM	605 SF			
203	NEW KITCHEN	366 SF			
204	MAIN FLOOR SUN ROOM ADDITION	149 SF			
205	ADDED MAIN FLOOR SPACE	50 SF			
206	LAUNDRY	62 SF			
207	BATH	47 SF			
208	HALL	139 SF			
209	FAMILY ROOM	303 SF			
210	NEW STAIRS TO AADU	120 SF			
UPPER FLC	DOR FIN FLR				
301	UPPER FLOOR STAIRS	106 SF			
302	NEW MASTER SUITE	313 SF			
303	MASTER BATH	175 SF			
304	WALK-IN CLOSET	98 SF			
305	ADU COVERED DECK	88 SF			
306 ADU LIVING ROOM 250 CF					
307	ADU KITCHEN	138 SF			
308 REDROOM 155 SE					
309	BATH	86 SF			
211	WALK-IN CLOSET	46 SF			

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EXISTING HOUSE ENERGY COMPLIANCE NOTES

Description of Primary Heating Source

Table 406.2 OPTION 1 (b) Combustion heating equipment meeting minimum NAECA federal efficiency standards for the equipment b. Equipment listed in Table C403.3.2(4) or C403.3.2(5)

AIR LEAKAGE CONTROL AND EFFICIENT VENTILATION OPTIONS

Table 406.3 OPTION 2.4 Compliance based on Section R402.4.1.2:

Reduce the tested air leakage to 0.6 air changes per hour maximum at Pascals

For R-2 Occupancies, optional compliance based on Section R402.4.1 Reduce the tested air leakage to 0.15 cfm/ft2 maximum at 50 Pascals

and

or

All whole house ventilation requirements as determined by Section M15 of the International Residential Code or Section 403.8 of the Internation Mechanical Code shall be met with a heat recovery ventilation system v minimum sensible heat recovery efficiency of 0.80. Duct installation sha comply with Section R403.3.7.

HIGH EFFICIENCY HVAC EQUIPMENT OPTIONS

Table 406.3 OPTION 3.1a 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 AF

of 90%.

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

FIRE SUPPRESSION NOTES

AN APPROVED AUTOMATIC MULTI-PURPOSE/FLOW-THRU FIRE SPRINKLER SYSTEM SHALL BE INSTALLED THROUGHOUT ALL PORTIONS OF THE RESIDENCE IN ACCORDANCE WITH NFPA 13D AND RFDS 5.0. A 1" METER SHALL BE PROVIDED TO MEET BOTH DOMESTIC AND FIRE SPRINKLER DEMANDS.

UNDER STAIR FIRE PROTECTION

UNDER STAIRS ENCLOSED, ACCESSIBLE SPACES REQUIRES 1/2" GYPSUM WALL BOARD APPLIED TO THE INTERIOR OF THE ENCLOSED SIDE, PER IRC R302.7

MECHANICAL VENTILATION SYSTEM

VENT FANS SHALL TERMINATE AT THE EXTERIOR OF THE BUILDING (REF. IRC M1502.3) INSULATE ALL DUCTS OUTSIDE OF CONDITIONED SPACE PER WASHIGNTON STATE ENERGY CODE.

KITCHEN RANGE HOOD VENTILATION

KITCHEN RANGE HOODS ARE REQUIRED IN ALL DOMESTIC KITCHEN, HOODS CAPABLE OF EXHAUSTING MORE THAN 400 CFM REQUIRE MAKE UP AIR (REF. IRC M1503.6

SYMBOLS LEGEND

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(S/C)

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DETAIL CALLOUT

S-105 - SHEET WHERE DETAIL IS DRAWN

> ELEVATION, SECTION, & DETAIL CALLOUT — DETAIL NUMBER - SHEET NUMBER

— DIRECTION OF VIEW

WINDOW TAG

DOOR TAG

WALL TAG 2x6

— WALL TYPE, SEE WALL DETAILS ON SHEET A-401

SMOKE AND CARBON DIOXIDE DETECTOR

INDICATES SAFETY GLAZING

HEAT DETECTOR

<u>EXHAUST FAN</u>

NEW ADDED WALL

EXISTING WALL

WALL TO BE DEMOLISHED AND REMOVED

CONTRACTORS TO FIELD VERIFY ALL EXISTING CONDITIONS SUCH AS AREAS, MEASUREMENTS AND DIMENSIONS, CEILING HEIGHTS, ROOF PITCHES AND EXISTING FRAMING (BEAMS , JOISTS AND OTHER FRAMING MEMBER SIZES, ETC.)

	HIGH EFFICIENCY HVAC EQUIPMENT OPTIONS Table 406.3 OPTION 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.
50	Direct combustion heating equipment with AFUE less than 80% is not
2:	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.
	EFFICIENT WATER HEATEING OPTIONS
505.3 nal	Table 406.3 OPTION 5.4
with all	Water heating system shall include one of the following: Electric heat pump water heater meeting the standards for Tier I of NEEA's advanced water heating specification
	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 recirculation piping shall be
UE	insulated with R-8 minimum pipe insulation. To qualify to claim this credit, the building permit drawings shall specify the
r the I the	option being selected and shall specify the water heater equipment type and the minimum equipment efficiency.
	APPLIANCE PACKAGE OPTION Table 406.3 OPTION 7.1
	All of the following appliances shall be new and installed in the dwelling unit and shall meet the following standards: Dishwasher - Energy Star rated
	Refrigerator (if provided) - Energy Star rated
	Dryer - Energy Star rated, ventless dryer with a minimum CEF rating of 5.2.

SMOKE, CO2 AND HEAT DETECTION NOTES

Smoke alarms shall be installed in the following locations: 1. In each sleeping room or sleeping loft.

2. Outside each separate sleeping area in the immediate vicinity of the bedrooms.

3. On each additional story of the dwelling, including basements and habitable attics but not including crawl spaces and uninhabitable attics. In dwellings or dwelling units with split

levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story below the upper level. 4. Smoke alarms shall be installed not less than 3 feet (914 mm) horizontally from the door

or opening of a bathroom that contains a bathtub or shower unless this would prevent placement of a smoke alarm required by Section R314.3.

CO alarm installation requirements

1. Alarms must be located outside of each separate sleeping area, in the

immediate vicinity of the bedroom and on each level of the residence.

Single station carbon monoxide alarms must be listed as complying with UL

2034, and installed in

accordance with the code and the manufacturer's instructions. 3. Combined CO and smoke alarms are permitted.

Heat Detection in New Garages

A heat detector or heat alarm rated for the ambient outdoor temperatures and humidity shall be installed in new garages that are attached to or located under new and existing dwellings. Heat detectors and heat alarms shall be installed in a central location and in accordance with the manufacturer's instructions.

ROOM SCHEDULE									
NOTE: ROOM AREA MEASURED FROM INTERIOR OF STUD WALL OR									
Number Name Area									
IOWERIE	VEL EIN ELP								
100	BASEMENT MECHANICAL ROOM	314 SF							
101	BEDROOM SUITE	220 SF							
102	ВАТН	72 SF							
102	WALK-IN CLOSET	47 SF							
100	OFFICE	109 SF							
104	BEDROOM	132 SF							
105	BEDROOM	131 SF							
106	BEDROOM	165 SF							
107	HAII	180 SF							
107	HALLCLOSET	19 SF							
100	BATHROOM	71 SF							
MAIN FLO	OR FIN FIR	/151							
201	NFW FOYFR	66 SF							
201	EXISTING MAIN ROOM	605 SF							
202	NFW KITCHFN	366 SF							
200	MAIN FLOOR SUN ROOM ADDITION	149 SF							
201	ADDED MAIN FLOOR SPACE	50 SF							
206	LAUNDRY	62 SF							
200	BATH	47 SF							
207	HALL	139 SF							
200	FAMILY ROOM	303 SF							
209	NEW STAIRS TO AADII	120 SF							
LIPPER FLO	OOR FIN FLR	120 01							
301	UPPER FLOOR STAIRS	106 SF							
302	NEW MASTER SUITE	313 SF							
303	MASTER BATH	175 SF							
304	WALK-IN CLOSET	98 SF							
305	ADU COVERED DECK	88 SF							
306	ADU LIVING ROOM	259 SF							
307	ADD LIVING ROOM 237 SF 307 ADII KITCHEN 138 CF								
308 BEDROOM 155 SF									
309 BATH 86 SF									
311	WALK-IN CLOSET	46 SF							

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UPPER FLOOR ADDITION AND ADU **ENERGY COMPLIANCE NOTES**

Description of Primary Heating Source Table 406.2 OPTION 2 (c)

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

EFFICIENT BUILDING ENVELOPE OPTIONS Table 406.3 OPTION 1.7

Compliance with the conductive UA targets is demonstrated usin Section R402.1.4, Total UA alternative, where [1-(Proposed UA/Target UA)] > the required %UA reduction

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

R-49 Advanced (U-0.020) as listed in Section A102.2.1, Ceilings vented attic

and R-49 vaulted ceilings with full height of uncompressed insulation extending

over the wall top plate at the eaves.

AIR LEAKAGE CONTROL AND EFFICIENT VENTILATION OP Table 406.3 OPTION 2.1

Compliance based on Section R402.4.1.2:

Reduce the tested air leakage to 0.6 air changes per hour maxim Pascals

or For R-2 Occupancies, optional compliance based on Section R Reduce the tested air leakage to 0.3 cfm/ft2 maximum at 50 Pa

All whole house ventilation requirements as determined by Section M1507.3 of the International Residential Code or Section 403.8 International Mechanical Code shall be met with a high efficience (maximum 0.35 watts/cfm), not interlocked with the furnace fan Ventilation systems using a furnace including an ECM motor ar provided that they are controlled to operate at low speed in ven mode.

To qualify to claim this credit, the building permit drawings shall option being selected, the maximum tested building air leakage, show the qualifying ventilation system and its control sequence operation.

HIGH EFFICIENCY HVAC EQUIPMENT OPTIONS

Table 406.3 OPTION 3.6 Ductless split system heat pumps with no electric resistance he primary living areas. A ductless heat pump system with a minim of 10 shall be sized and installed to provide heat to entire dwelli the design outdoor air temperature.

To qualify to claim this credit, the building permit drawings shall 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).

FIRE SUPPRESSION NOTES

AN APPROVED AUTOMATIC MULTI-PURPOSE/FLOW-THRU FIRE SPRINKLER SYSTEM SHALL BE INSTALLED THROUGHOUT ALL PORTIONS OF THE RESIDENCE IN ACCORDANCE WITH NFPA 13D AND RFDS 5.0. A 1" METER SHALL BE PROVIDED TO MEET BOTH DOMESTIC AND FIRE SPRINKLER DEMANDS.

MECHANICAL VENTILATION SYSTEM

VENT FANS SHALL TERMINATE AT THE EXTERIOR OF THE BUILDING (REF. IRC M1502.3) INSULATE ALL DUCTS OUTSIDE OF CONDITIONED SPACE PER WASHIGNTON STATE ENERGY CODE.

KITCHEN RANGE HOOD VENTILATION

KITCHEN RANGE HOODS ARE REQUIRED IN ALL DOMESTIC KITCHEN. HOODS CAPABLE OF EXHAUSTING MORE THAN 400 CFM REQUIRE MAKE UP AIR (REF. IRC M1503.6

SYMBOLS LEGEND <u>DETAIL CALLOUT</u> S-105 - SHEET WHERE DETAIL IS DRAWN

	ELEVATION, SECTION, & DETAIL CALLOUT
1	- DETAIL NUMBER
A-301	- SHEET NUMBER
\mathbf{V}	- DIRECTION OF VIEW
101	DOOR TAG
101	WINDOW TAG
226	<u>WALL TAG</u>
220	- WALL TYPE, SEE WALL DETAILS ON SHEET A-401
S/C	SMOKE AND CARBON DIOXIDE DETECTOR
SG	INDICATES SAFETY GLAZING
Ĥ	HEAT DETECTOR
\bigotimes	<u>EXHAUST FAN</u>
	NEW ADDED WALL

EXISTING WALL

WALL TO BE DEMOLISHED AND REMOVED

CONTRACTORS TO FIELD VERIFY ALL EXISTING CONDITIONS SUCH AS AREAS, MEASUREMENTS AND DIMENSIONS, CEILING HEIGHTS, ROOF PITCHES AND EXISTING FRAMING (BEAMS, JOISTS AND OTHER FRAMING MEMBER SIZES, ETC.)

Rich	Design
C.	

Group (253) 951-8049 www.richdesigngroup.com richdesign1@comcast.net

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	HIGH EFFICIENCY HVAC EQUIPMENT OPTIONS Table 406.3 OPTION 4.1	
	All supply and return ducts located in an unconditioned attic shall be deeply buried in ceiling insulation in accordance with Section R403.3.7. For mechanical equipment located outside the conditioned space, a maximum of 10 linear feet of return duct and 5 linear feet of supply duct	
ing	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.	
s below a	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.	
n	EFFICIENT WATER HEATEING OPTIONS Table 406.3 OPTION 5.4	
PTIONS	Water heating system shall include one of the following: Electric heat pump water heater meeting the standards for Tier I of NEEA's advanced water heating specification	
mum at 50	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	
402.4.1.2: ascals	than one dwelling unit, all hot water supply and recirculation piping shall be insulated with R-8 minimum pipe insulation. To qualify to claim this credit, the building permit drawings shall specify the action being sclosted and shall ensuit the water bester equipment type.	
tion of the cy fan(s)	and the minimum equipment efficiency.	
(if present).		
tilation only	All of the following appliances shall be new and installed in the dwelling unit and shall meet the following standards:	
l specify the	Dishwasher - Energy Star rated Refrigerator (if provided) - Energy Star rated	
of	Washing machine - Energy Star rated Dryer - Energy Star rated, ventless dryer with a minimum CEF rating of 5.2.	
eating in the num HSPF ing unit at		
	Smoke alarms shall be installed in the following locations:	
I specify the	1. In each sleeping room or sleeping loft.	

Outside each separate sleeping area in the immediate vicinity of the bedrooms. 3. On each additional story of the dwelling, including basements and habitable attics but not including crawl spaces and uninhabitable attics. In dwellings or dwelling units with split levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower

level is less than one full story below the upper level. 4. Smoke alarms shall be installed not less than 3 feet (914 mm) horizontally from the door or opening of a bathroom that contains a bathtub or shower unless this would prevent placement of a smoke alarm required by Section R314.3.

CO alarm installation requirements

Combined CO and smoke alarms are permitted.

1. Alarms must be located outside of each separate sleeping area, in the immediate vicinity of the

bedroom and on each level of the residence.

Single station carbon monoxide alarms must be listed as complying with UL 2034, and installed in

accordance with the code and the manufacturer's instructions.

Heat Detection in New Garages

A heat detector or heat alarm rated for the ambient outdoor temperatures and humidity shall be installed in new garages that are attached to or located under new and existing dwellings. Heat detectors and heat alarms shall be installed in a central location and in accordance with the manufacturer's instructions.

	ROOM AREA MEASURED FROM INTERIO	R OF STUD WALL OR		
Number	Name	Area		
LOWER LE	VEL FIN FLR	014.05		
100	BASEMENT MECHANICAL ROOM	314 SF		
101	BEDROOM SUITE	220 SF		
102	BATH	72 SF		
103	WALK-IN CLOSET	47 SF		
104	OFFICE	109 SF		
104	BEDROOM	132 SF		
105	BEDROOM	131 SF		
106	BEDROOM	165 SF		
107	HALL	180 SF		
108	HALL CLOSET	19 SF		
109	BATHROOM	71 SF		
MAIN FLO	OR FIN FLR			
201	NEW FOYER	66 SF		
202	EXISTING MAIN ROOM	605 SF		
203	NEW KITCHEN	366 SF		
204	MAIN FLOOR SUN ROOM ADDITION	149 SF		
205	ADDED MAIN FLOOR SPACE	50 SF		
206	LAUNDRY	62 SF		
207	BATH	47 SF		
208	HALL	139 SF		
209	FAMILY ROOM	303 SF		
210	NEW STAIRS TO AADU	120 SF		
UPPER FLO	OOR FIN FLR			
301	UPPER FLOOR STAIRS	106 SF		
302	NEW MASTER SUITE	313 SF		
303	MASTER BATH	175 SF		
304	WALK-IN CLOSET	98 SF		
305	ADU COVERED DECK	88 SF		
306	ADU LIVING ROOM	259 SF		
307	ADII KITCHEN	138 SF		
208	REDROOM	155 SF		
200	BATH	86 SF		
011	MALK IN CLOSET	46 CE		

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DRAWN BY PHF PROJECT # DATE 1/4/2024 11:52:35 AM SCALE As indicated

UPPER FLOOR ENCLOSED ATTIC **VENTILATION NOTES**

PROVIDE 1 SQFT OF VENT OPENINGS FOR EACH 300 SC OF ENCLOSED ATTIC SPACE PER R806 WITH HALF EXHA USE 50 SQIN ROOF VENTS WITH 10" VENTED SOFFIT (4.5

CALCULATION: 1,553 SQFT / 300

5.18 SQFT (745.92 SQIN) OF ATTIC VENTING REQUIRED 373 SQIN OF INTAKE VENTILATION 373 SQIN OF EXHAUST VENTILATION

EXHAUST 373 SQIN 50 SQIN

= 7.46

8 TOTAL EXHAUST ROOF VENTS REQUIRED INTAKE

373 SQIN PER LF4.52 SQIN=82.52 LINEAR FT OF SOFFIT VENTING

USE CONTINOUS SOFFIT VENTING AND CONTINUOUS RIDGE VENTING FOR RAFTER AREAS OVER VAULTED CEILINGS

/ 1/8" = 1'-0"

FIRE SUPPRESSION NOTES

AN APPROVED AUTOMATIC MULTI-PURPOSE/FLOW-THRU FIRE SPRINKLER SYSTEM SHALL BE INSTALLED THROUGHOUT ALL PORTIONS OF THE RESIDENCE IN ACCORDANCE WITH NFPA 13D AND RFDS 5.0. A 1" METER SHALL BE PROVIDED TO MEET BOTH DOMESTIC AND FIRE SPRINKLER DEMANDS.

WHOLE HOUSE VENTILATION SYSTEM

- _ Exempt: Addition less than 500 sq.ft. or Remodel only. _ Integrated with forced air system per IRC M1505.4.1.5
- Supply fan per IRC M1505.4.1.3 \overline{X} Balanced Supply and Exhaust fans per IRC M1505.4.1.4
- Engineered design complying with IMC section 403.8.10.

CONTRACTORS TO FIELD VERIFY ALL EXISTING CONDITIONS SUCH AS AREAS, MEASUREMENTS AND DIMENSIONS, CEILING HEIGHTS, ROOF PITCHES AND EXISTING FRAMING (BEAMS , JOISTS AND OTHER FRAMING MEMBER SIZES, ETC.)

SUN ROOM ENCLOSED ATTIC **VENTILATION NOTES**

2FT
AUST AND HALF INTAKE
52 SQIN PER FT)

OF ENCLOSED ATTIC SPACE PER R806 WITH HALF EXHAUST AND HALF INTAKE USE 50 SQIN ROOF VENTS WITH 10" VENTED SOFFIT (4.52 SQIN PER LINEAR FT MIN.) CALCULATION: 172 SQFT / 300

0.57 SQFT (82.56 SQIN) OF ATTIC VENTING REQUIRED 41 SQIN OF INTAKE VENTILATION 41 SQIN OF EXHAUST VENTILATION EXHAUST

PROVIDE 1 SQFT OF VENT OPENINGS FOR EACH 300 SQFT

<u>41 SQIN</u> 50 SQIN = 0.83 1 TOTAL EXHAUST ROOF VENTS REQUIRED

INTAKE 41 SQIN PER LF4.52 SQIN= 9.1 LINEAR FT OF SOFFIT VENTING

83 LINEAR FT OF INTAKE SOFFIT VENTING REQUIRED FOR 1,553 SQFT OF ATTIC SPACE

9.1 LINEAR FT OF INTAKE SOFFIT VENTING REQUIRED FOR 172 SQFT OF ATTIC SPACE

USE CONTINOUS SOFFIT VENTING AND CONTINUOUS RIDGE VENTING FOR RAFTER AREAS OVER VAULTED CEILINGS

Exhaust fan with 24-hr timer and fresh air inlets in each habitable room per IRC M1505.4.1.2 _ Balanced and Distributed Balanced and NOT Distributed NOT balanced and Distributed ____ NOT balanced and NOT distributed

Specify location of Whole House Fan: UPPER FLOOR ATTIC SPACE Size: 35 cfm 24 hrs./day

Rich Design Group

(253) 951-8049 www.richdesigngroup.com richdesign1@comcast.net

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DRAWN BY PROJECT # DATE 1/4/2024 11:52:41 AM SCALE As indicated

2 SECTION B 3/16" = 1'-0" CONTRACTORS TO FIELD VERIFY ALL EXISTING CONDITIONS SUCH AS AREAS, MEASUREMENTS AND DIMENSIONS, CEILING HEIGHTS, ROOF PITCHES AND EXISTING FRAMING (BEAMS, JOISTS AND OTHER FRAMING MEMBER SIZES, ETC.)

Rich Design Group

AMAGE RESTORATION , REMODEL AND ADDITION 8520 SE 82ND ST MERCER ISLAND, WA 98040

LUND RESIDENCE

RENEE

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FIRE

 DRAWN BY
 PHF

 PROJECT #
 DATE
 12/3/2023 12:11:23 PM

 SCALE
 3/16" = 1'-0"

DATE 1/4/2024 12:03:30 PM SCALE 1/2" = 1'-0

		V	VINDOW	OPENINGS	S SCHEDUL	E	
		Roua	h Openina		NFRC Cortified		
Mark	Level	Width	Height	Opening Area	U-Value	U*A Value	Comments
МЕСНА	NICAL ROOM FIN SLAB		0				
108	MECHANICAL ROOM FIN SLAB	2' - 0"	2' - 6"	5 ft ²	0.28	1.40	NEW WINDOW
109	MECHANICAL ROOM FIN SLAB	2' - 0"	2' - 6"	5 ft ²	0.28	1.40	NEW WINDOW
110	MECHANICAL ROOM FIN SLAB	2' - 0"	2' - 6"	5 ft ²	0.28	1.40	NEW WINDOW
111	MECHANICAL ROOM FIN SLAB	2' - 0"	2' - 6"	5 ft ²	0.28	1.40	NEW WINDOW
<i>IECHA</i>	NICAL ROOM FIN SLAB: 4	Į		20 ft ²		5.60	
OWER	LEVEL FIN FLR						
E101	LOWER LEVEL FIN FLR	2' - 6"	6' - 0"	15 ft ²	1.25	18.75	EXISTING WINDOW
E102	LOWER LEVEL FIN FLR	2' - 6"	6' - 0"	15 ft ²	1.25	18.75	EXISTING WINDOW
E103	LOWER LEVEL FIN FLR	2' - 6"	6' - 0"	15 ft ²	1.25	18.75	EXISTING WINDOW
E104	LOWER LEVEL FIN FLR	4' - 0"	4' - 0"	$16ft^2$	1.25	20.00	EXISTING WINDOW
E105	LOWER LEVEL FIN FLR	4' - 0"	4' - 0"	16 ft ²	1.25	20.00	EXISTING WINDOW
E106	LOWER LEVEL FIN FLR	4' - 0"	4' - 0"	16 ft ²	1.25	20.00	EXISTING WINDOW
E107	LOWER LEVEL FIN FLR	4' - 0"	4' - 0"	16 ft ²	1.25	20.00	EXISTING WINDOW
LOWER	LEVEL FIN FLR: 7			109 ft ²	ı	136.25	I
AMILY	ROOM/ENTRY LEVEL FI	N FLR		J*			
211	FAMILY ROOM/ENTRY LEVEL FIN FLR	3' - 0"	6' - 0"	18 ft ²	0.28	5.04	NEW WINDOW
212	FAMILY ROOM/ENTRY LEVEL FIN FLR	6' - 0"	6' - 0"	36 ft ²	0.28	10.08	NEW WINDOW
213	FAMILY ROOM/ENTRY LEVEL FIN FLR	3' - 0"	6' - 0"	18 ft²	0.28	5.04	NEW WINDOW
214	FAMILY ROOM/ENTRY LEVEL FIN FLR	5' - 0"	6' - 0"	30 ft ²	0.28	8.40	NEW WINDOW
FAMILY	ROOM/ENTRY LEVEL FI	N FLR: 4		$102ft^2$		28.56	
AAIN FI	LOOR FIN FLR						
203	MAIN FLOOR FIN FLR	6' - 0"	3' - 2"	19 ft ²	0.28	5.32	NEW WINDOW
204	MAIN FLOOR FIN FLR	8' - 0"	5' - 0"	$40 ft^2$	0.28	11.20	NEW WINDOW
205	MAIN FLOOR FIN FLR	6' - 0"	5' - 0"	30 ft ²	0.28	8.40	NEW WINDOW
206	MAIN FLOOR FIN FLR	3' - 0"	5' - 0"	15 ft ²	0.28	4.20	NEW WINDOW
207	MAIN FLOOR FIN FLR	6' - 0"	5' - 0"	30 ft ²	0.28	8.40	NEW WINDOW
208	MAIN FLOOR FIN FLR	3' - 0"	5' - 0"	15 ft ²	0.28	4.20	NEW WINDOW
209	MAIN FLOOR FIN FLR	6' - 0"	5' - 0"	30 ft^2	0.28	8 40	NEW WINDOW
210	MAIN FLOOR FIN FLR	3' - 0"	5' - 0"	15 ft ²	0.28	4 20	NEW WINDOW
E201	MAIN FLOOR FIN FLR	2' - 0"	9' - 2"	18 ft ²	1.25	22.92	FXISTING WINDOW
E201	MAIN ELOOP EIN ELP	2 0	<u> </u>	10 jt	1.25	22.72	EXISTING WINDOW
	$\frac{1}{1000} = \frac{1}{1000} = \frac{1}{1000} = \frac{1}{1000} = \frac{1}{10000} = \frac{1}{10000000000000000000000000000000000$	2 - 0	8-0	17 Ji	1.20	09.40	
TPPER I	FLOOR FIN FLR. 10			229 Ji		70.47	
301	IIPPER ELOOR EIN ELR	4' - 0"	6' - 0"	24 ft ²	0.28	6 72	NFW WINDOW
302	UPPER ELOOR FIN ELR	<u>+</u> 0 8' - 0"	6' - 0"	24 Jt 18 ft ²	0.28	13 11	NEW WINDOW
302	IIDDED ELOOD EIN ELD	<i>A</i> ' 0"	6' 0"	$\frac{40 \text{ JL}}{24 \text{ H}^2}$	0.28	6 79	
204	UFFER FLOOR FIN FLR	4-0 5'0"	6'-0"	24 Ji	0.28	0.72	
304	UPPER FLOOR FIN FLR	5-0 2' 0"	6 - 0	30 JL	0.28	6.40	
305	UPPER FLOUK FIN FLK	3-U E' 0"	0 - U	10 JT	0.28	5.04	
305	UPPER FLOOR FIN FLR	5 - 0"	6'-0"	30 jt ²	0.28	8.40	NEW WINDOW
307	UPPER FLOUK FIN FLR	δ'-0"	6'-0"	48 jt	0.28	13.44	NEW WINDOW
308	UPPER FLOOR FIN FLR	3'-0"	6'-0"	18 ft ²	0.28	5.04	NEW WINDOW
309	UPPER FLOOR FIN FLR	8' - 0"	6' - 0"	48 ft ²	0.28	13.44	NEW WINDOW
310	UPPER FLOOR FIN FLR	3' - 0"	6' - 0"	18 ft ²	0.28	5.04	NEW WINDOW
311	UPPER FLOOR FIN FLR	4' - 0"	4' - 6"	18 ft ²	0.28	5.04	NEW WINDOW
312	UPPER FLOOR FIN FLR	2' - 8"	5' - 0"	13 ft ²	0.28	3.73	NEW WINDOW
313	UPPER FLOOR FIN FLR	5' - 0"	5' - 0"	$25 ft^2$	0.28	7.00	NEW WINDOW
JPPER I	FLOOR FIN FLR: 13			362 ft²		101.45	
COP OF	ROOF RIDGE						
401	TOP OF ROOF RIDGE	2' - 0"	4' - 0"	8 ft ²	0.50	4.00	SKYLIGHT
402	TOP OF ROOF RIDGE	2' - 0"	4' - 0"	8 ft ²	0.50	4.00	SKYLIGHT
ГОР OF	ROOF RIDGE: 2			$16 ft^2$		8.00	
Grand to	otal: 40			839 ft²		378.35	

NEW	WINDOWS	S

	Rough Opening Mark Width Height		Head Height	Sill Height (TOP of SILL)	
Mark			(BTM of HDR)		
TOP OF	ROOF RIDGE				
401	2' - 0"	4' - 0"			
402	2' - 0"	4' - 0"			
UPPER I	FLOOR FIN FL	R			
301	4' - 0"	6' - 0"	8' - 0"	2' - 0"	
302	8' - 0"	6' - 0"	8' - 0"	2' - 0"	
303	4' - 0"	6' - 0"	8' - 0"	2' - 0"	
304	5' - 0"	6' - 0"	8' - 0"	2' - 0"	
305	3' - 0"	6' - 0"	8' - 0"	2' - 0"	
306	5' - 0"	6' - 0"	8' - 0"	2' - 0"	
307	8' - 0"	6' - 0"	8' - 0"	2' - 0"	
308	3' - 0"	6' - 0"	8' - 0"	2' - 0"	
309	8' - 0"	6' - 0"	8' - 0"	2' - 0"	
310	3' - 0"	6' - 0"	8' - 0"	2' - 0"	
311	4' - 0"	4' - 6"	8' - 0"	3' - 6"	
312	2' - 8"	5' - 0"	8' - 0"	3' - 0"	
313	5' - 0"	5' - 0"	8' - 0"	3' - 0"	
MAIN FI	LOOR FIN FLR	2			
203	6' - 0"	3' - 2"	6' - 8"	3' - 6"	
204	8' - 0"	5' - 0"	6' - 8"	1' - 8"	
205	6' - 0"	5' - 0"	6' - 8"	1' - 8"	
206	3' - 0"	5' - 0"	6' - 8"	1' - 8"	
207	6' - 0"	5' - 0"	6' - 8"	1' - 8"	
208	3' - 0"	5' - 0"	6' - 8"	1' - 8"	
209	6' - 0"	5' - 0"	6' - 8"	1' - 8"	
210	3' - 0"	5' - 0"	6' - 8"	1' - 8"	
FAMILY	ROOM/ENTR	Y LEVEL FIN FLR			
211	3' - 0"	6' - 0"	8' - 0"	2' - 0"	
212	6' - 0"	6' - 0"	8' - 0"	2' - 0"	
213	3' - 0"	6' - 0"	8' - 0"	2' - 0"	
214	5' - 0"	6' - 0"	8' - 0"	2' - 0"	
MECHAI	VICAL ROOM	FIN SLAB			
108	2' - 0"	2' - 6"	7' - 1 1/2"	4' - 7 1/2"	
109	2' - 0"	2' - 6"	7' - 1 1/2"	4' - 7 1/2"	
110	2' - 0"	2' - 6"	7' - 1 1/2"	4' - 7 1/2"	
111	2' - 0"	2' - 6"	7' - 1 1/2"	4' - 7 1/2"	

WHERE RECOMMENDED AS PART OF AN EXTERIOR WALL FINISH SYSTEM, INSTALL BUILDING PAPER. APPLY IN A WEATHERBOARD

PROCEDURE FROM ONE METHOD TO THE OTHER IS NOT PERMITTED.

LOWER LEVEL FIN FLR BASEMENT MECHANICAL ROOM 314 SF BEDROOM SUITE 220 SF BATH 72 SF WALK-IN CLOSE 47 SF 109 SF OFFICE BEDROOM 132 SF BEDROOM 131 SF BEDROOM 165 SF HALL 180 SF HALL CLOSET 19 SF 108 BATHROOM 71 SF MAIN FLOOR FIN FLR NEW FOYER 66 SF EXISTING MAIN ROOM 605 SF NEW KITCHEN 366 SF 203 MAIN FLOOR SUN ROOM ADDITION 149 SF ADDED MAIN FLOOR SPACE 50 SF LAUNDRY 62 SF 206 207 BATH 47 SF 139 SF 208 HALL FAMILY ROOM 303 SF 209 NEW STAIRS TO AADU 120 SF UPPER FLOOR FIN FLR UPPER FLOOR STAIRS 106 SF NEW MASTER SUITE 313 SF MASTER BATH 175 SF WALK-IN CLOSET 98 SF ADU COVERED DECK 88 SF ADU LIVING ROOM 259 SF 306 ADU KITCHEN 138 SF

BEDROOM

WALK-IN CLOSET

BATH

308

309

Name

Number

ROOM SCHEDULE NOTE: ROOM AREA MEASURED FROM INTERIOR OF STUD WALL OR ...

Area

155 SF

86 SF

46 SF

(1) WINDOW INSTALLATION DETAILS

SCHEDULE

			D	OOR SCHEDULE1		
			SEE SCHEDULES SHE	ET FOR DOOR TYPES AND COMPLETE S	CHEDULE	
Mark	Width	Height	Glazing Area	Туре	Function	Glazing Specification
LOWER LE	EVEL FIN FLR					
101	5' - 0"	6' - 8"		DBL SLIDING CLOSET DOOR	Interior	
102	2' - 6"	6' - 8"		UNDER STAIRS CLOSET DOOR	Interior	
103	2' - 6"	6' - 8"		CASED OPENING	Interior	
FAMILY R	OOM/ENTRY LEVE	EL FIN FLR				
201	6' - 0"	8' - 0"		DBL FULL LITE ENTRY DOOR	Exterior	SAFETY GLAZING REQUIRED
202	2' - 6"	6' - 8"		SINGLE BIFOLD CLOSET DOOR	Interior	
203	3' - 0"	8' - 0"		SINGLE FULL LITE PATIO DOOR	Exterior	SAFETY GLAZING REQUIRED
204	4' - 0"	6' - 8"		DBL SWING CLOSET DOOR	Interior	
MAIN FLO	OR FIN FLR					
203	5' - 0"	6' - 8"	14.4 SF	DBL FRENCH PATIO DOOR	Exterior	SAFETY GLAZING REQUIRED
204	5' - 0"	6' - 8"	14.4 SF	DBL FRENCH DOOR	Interior	SAFETY GLAZING REQUIRED
205	4' - 6"	6' - 8"		DBL SLIDING CLOSET DOOR	Interior	
206	3' - 0"	6' - 8"		CASED OPENING	Interior	
207	2' - 6"	6' - 8"		UNDER STAIRS CLOSET DOOR	Interior	
UPPER FL	OOR FIN FLR					
301	5' - 0"	8' - 0"		DBL FRENCH DOOR	Interior	SAFETY GLAZING REQUIRED
302	2' - 6"	8' - 0"			Interior	
303	3' - 0"	8' - 0"		POCKET DOOR	Interior	
304	3' - 0"	8' - 0"		FRONT ENTRY DOOR	Exterior	
305	4' - 0"	8' - 0"		DBL SLIDING CLOSET DOOR	Interior	
306	2' - 6"	8' - 0"			Interior	
307	1' - 8"	8' - 0"			Interior	
308	2' - 6"	8' - 0"			Interior	
309	2' - 6"	8' - 0"		CASED OPENING	Interior	
310	2' - 4"	8' - 0"		FIRE RATED PARTITION DOOR	Interior	
Grand toto	al: 22					

TYPICAL WINDOW INSTALLATION DETAILS PER AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION. CONTRACTORS OPTION TO USE METHOD 'A' OR METHOD 'B' SUBSTITUTION OF A

NOTE: CC

GRAND TOTA

CONTRACTORS TO FIELD VERIFY ALL EXISTING CONDITIONS SUCH AS AREAS, MEASUREMENTS AND DIMENSIONS, CEILING HEIGHTS, ROOF PITCHES AND EXISTING FRAMING (BEAMS, JOISTS AND OTHER FRAMING MEMBER SIZES, ETC.)

AREA - CONDITIONED SPACE	

ONDITIONED SPACE MEASURED FROM EXTERIOR	
FRAMING & HEAD HEIGHT ABOVE 48".	

88 SF
88 SF
426 SF
364 SF
1417 SF
1354 SF
3560 SF
60 SF
172 SF
99 SF
331 SF
775 SF
661 SF
117 SF
1553 SF
5532 SF

AREA - OUTDOOR SP	ACE
UNHEATED SPACE	
EXISTING GARAGE	529 SF
	529 SF
OUTDOOR SPACE	
EXISTING COVERED ENTRY WALKWAY	207 SF
EXISTING MAIN FLOOR DECK	428 SF
LOWER FLOOR COVERED PATIO	432 SF
	1068 SF
OUTSIDE ADU STAIRS	88 SF
	88 SF
ADDED ADU BUILDING FOOTPRINT	567 SF
ADDED SUN ROOM BUILDING	172 SF
FOOTPRINT	
COVERED DECK	105 SF
	844 SF
CRAND TOTAL	2529 SE

NOTE: IN APPLICATIONS WHERE WALL SHEATHING IS USED, SHEATHING SHALL BE APPLIED PRIOR TO FLASHING AND WINDOW INSTALLATION. WINDOW INSTALLATION (METHOD "A") SCALE: 6"=1'-0"

HEAD FLASHING SCALE: 6"=1'-0"

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Rich Design Group

(253) 951-8049 www.richdesigngroup.com richdesign1@comcast.net

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DATE 1/4/2024 11:53:01 AM 1" = 1'-0" SCALE SHEET

PHF

DRAWN BY

PROJECT #

GENERAL STRUCTURAL NOTES

- 1. ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, THE INTERNATIONAL BUILDING CODE (IBC, 2018 EDITION) AND MODIFICATIONS TO THE INTERNATIONAL BUILDING CODE BY THE LOCAL JURISDICTION.
- 2. DESIGN LOAD CRITERIA

	ROOF FLOORS DECKS EXTERIOR WALLS INTERIOR WALLS			15 PSF 20 PSF 8 PSF 10 PSF 8 PSF
LIVE LOADS	3			
	ROOF FLOOR / LIVING SPACE DECKS / BALCONIES			20 PSF 40 PSF 60 PSF
SNOWLOAD	DS			
	GROUND LOAD ROOF SNOW LOAD			25 PSF 25 PSF
WIND				
	ULTIMATE DEIGN WIND SPEED WIND EXPOSURE IMPORTANCE FACTOR ADJUSTMENT FACTOR WIND SPEED UP FACTOR		l _W = λ =	110 MPH C 1.0 1.0 1.9
SEISMIC				
	SEISMIC USE GROUP IMPORTANCE FACTOR I _E SITE CLASS SEISMIC DESIGN CATEGORY RESPONSE FACTOR MAPPED ACCELERATION (PER USGS) BASE SHEAR SEISMIC RESPONSE COEFFICIENT	R = S _S = S ₁ = V = Cs =		II 1.0 D 6.5 1.64 0.62 25,560 0.18

SOIL PRESSURE:

ALL SOIL PRESSURE

1,500 PSF

- 3. 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 AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- 4. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS PRIOR TO COMMENCING WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND MUST BE VERIFIED.
- 5. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE CONTRACTORS 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 SITE ENTITIES OR PERSONS AT THE PROJECT SITE.
- 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.
- 8. 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.
- 9. 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.

FOUNDATIONS

- 10. ALL FOOTINGS AND FOUNDATIONS SHALL BE SUPPORTED BY COMPETENT NATIVE SOIL 18" BELOW FINISHED GRADE FOR EXTERIOR SIDE AND 12" FOR INTERIOR FOOTINGS, FREE OF ORGANIC MATERIALS. OVEREXCAVATION MIGHT BE NEEDED TO REACH THE COMPETENT SOIL.
- 11. FOOTINGS AND FOUNDATION EXCAVATION SHALL BE FREE OF LOOSE SOILS, SLOUGHS, DEBRIS, AND FREE OF WATER AT ALL TIMES.
- 12. FOUNDATION WALL BACKFILL SHALL BE PLACED SIMULTANEOUSLY ON BOTH SIDES OF WALL PROVIDING 4" PERFORATED PIPE (AS REQUIRED) FOR SUBSURFACE DRAINAGE.

13. U.N.O. IN AN APPROVED GEOTECHNICAL REPORT, THE FOLLOWING METHOD FOR BACKFILL PLACEMENT AND COMPACTION IS TO BE USED:

> EXCEPT FOR BACKFILL AGAINST BELOW-GRADE WALLS OR LOOSE LIFTS NOT EXCEEDING 10 INCHES IN THICKNESS AND (ASTM D1557) MAXIMUM DENSITY AT MOISTURE CONTENTS WITHIN TWO (2) PERCENT OF OPTIMUM. THE SPECIFIED COMPACTION BY INSPECTION. PRIOR TO PLACEMENT OF SUBSEQUENT LIFTS. BACKFILL AGIANST BELOW-GRADE WALLS AND RETAINING WALLS SHOULD BE COMPACTED AS DESCRIBDED ABOVE TO ONLY 90 D1557.

- 14. FOOTING SIZE SHALL BE AS INDICATED ON DRAWINGS OR MIN. AS PER IBC SECTION 1806.
- 15. WHERE THE SURFACE IS SLOPED MORE THAN OE (1) FOOT IN TEN (10) FEET THE FOUNDATION SHALL BE LEVEL OR STEPPED SO THAT BOTH, TOP AND BOTTOM, OF SUCH FOUNDATION ARE LEVEL PER IBC.
- 16. WHERE STRUCTURAL COLUMNS AND POSTS ARE EXPOSED TO WATER SPLASH ABOVE, A CONCRETE SURFACE OR TO THE WEATHER, PROVIDE A MIN, OF 1" ABOVE CONCRETE SUBFACE, OR 8" ABOVE THE EXPOSED EARTH PER IBC.

CONCRETE

& BEAMS

17. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH IBC SECTION 1905, 1906, AND ACI 301. STRENGTH AT AGE 28 DAYS AND MIX CRITERIA SHALL BE AS FOLLOWS, U.N.O.:

MEMBER TYPE (IN)	PSI
SLABS ON GRADE FOUNDATIONS WALLS COLUMNS, ELEVATED SLABS	2,500 2,500 2.500

- 18. CONCRETE MIX FOR FOUNDATION AND SLAB: CEMENT: 5.5 SACK TYPE I NORMAL PORTLAND CEMENT 1,210 LBS OF WET SAND 1,925 LBS GRAVEL
- 19. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, FY = 60,000 PSI, UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM-185.

4,500

- 20. DETAILING OF REINFORCING STEEL (INCLUDING HOOKS AND BENDS) SHALL BE IN ACCORDANCE WITH ACI 318-14. LAP ALL REINFORCEMENTS IN ACCORDANCE WITH "THE REINFORCING SPLICE AND DEVELOPMENT LENGTH SCHEDULE".PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS.
- 21. NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED AND APPROVED BY THE STRUCTURAL ENGINEER.
- 22. CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

FOOTINGS AND OTHER UNFORMED S CAST AGAINST AND PERMANENTLY E FORMED SURFACES EXPOSED TO EA (NO. 6 BARS OR LARGER)

(NO 5 BARS OR SMALLER) COLUMN TIES OR SPIRALS AND BEAM

- 23. CAST-IN-PLACE CONCRETE: SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND DIMENSIONS OF DOOR AND WINDOW OPENINGS IN ALL CONCRETE WALLS. SEE MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF MISCELLANEOUS MECHANICAL OPENINGS THROUGH CONCRETE WALLS .
- 24. NON-SHRINK GROUT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE MIXED AND PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (2.500 PSI MIN).

RETAINING WALLS, ALL OTHER STRUCTURAL FILL AND STRUCTURAL BACKFILL MATERIALS SHALL BE PLACED IN RELATIVELY HORIZONTAL COMPACTED TO AT LEAST 95 PERCENT OF THE MODIFIED PROCTOR DENSITY AND MOISTURE CONTENT OF EACH LIFT MUST BE VERIFIED PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM

SURFACES EXPOSED TO EARTH	3"
ARTH OR WEATHER	
	2"
	1-1/2"
M STIRRUPS	1-1/2"

SLABS AND WALLS: GREATER OF BAR DIAMETER + 1/8 OR 3/4"

FLOOR SLABS

25. INTERIOR CONCRETE SLAB-ON-GRADE FLOORS SHOULD BE UNDERLAIN BY CAPILARY BREAK CONSISTING OF AT LEAST 4 INCHES PEA GRAVEL OR COMPACTED 3/4- INCH CLEAN CRUSHED ROCK (LESS THAN 3 PERCENT FINES).

ANCHORAGE

- 26. EPOXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BARS) SPECIFIED ON THE DRAWINGS SHALL BE INSTALLED WITH SIMPSON EPOXY "SET-XP" OR EQUAL. SPECIAL INSPECTION IS REQUIRED. RODS SHALL BE ASTM A-36 UNLESS NOTED OTHERWISE.
- 27. DRIVEN PINS AND OTHER POWDER ACTUATED FASTENERS SHALL BE LOW VELOCITY TYPE. INSTALL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT IN CONCRETE SHALL BE 1" UNLESS OTHERWISE NOTED. MAINTAIN AT LEAST 3" TO NEAREST CONCRETE.
- 28. PERIODIC SPECIAL INSPECTION FOR EPOXIED ANCHORS AND BOLTS IS REQUIRED.

STEEL

- STRUCTURAL STEEL FABRICATION, ERECTION AND WELDING 29. INSPECTION SHALL COMPLY WITH THE SPECIAL INSPECTION SCHEDULE.
- 30. STRUCTURAL STEEL SHALL BE GRADE A-36 UNLESS NOTED OTHERWISE.
- 31. ARCHITECTURALLY EXPOSED STEEL SHALL CONFORM TO SECTION 10 OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
- THE FOLLOWING ADHESIVE-TYPE ANCHORING SYSTEMS SHALL BE 32. USED FOR CONCRETE AND MASONRY, AS APPLICABLE AND IN ACCORDANCE WITH CORREPSONDING CURRENT ICC ESR REPORT.
 - SIMPSON "SET-XP" ICC ESR 2508 FOR ANCHORING TO CONCRETE
- 33. ALL WELDING SHALL BE IN CONFORMANCE WITH AISC AND A.W.S STANDARDS AND SHALL BE PERFORMED BY W.A.B.O. CERTIFIED WELDERS USING E70 XX ELECTRODES. ONLY PREQUALIFIED WELDS(AS DEFINED BY A.W.S.) SHALL BE USED ALL COMPLETE JOINT PENETRATION GROOVE WELDS SHALL BE MADE WITH A FILLER MATERIAL THAT HAS A MINIMUM CVN TOUGHNESS OF 20 FT LBS AT -20 DEGREES F. AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION
- 34. WELDING INSPECTION SHALL BE IN COMPLIANCE WITH AWS D1.1.

WOOD

- 35. ALL SOLID LUMBER TO BE GRADED BY WCLIB OR WWSA. ALL LUMBER SHALL BE HEM-FIR #2 (HF #2) OR BETTER. ALL SOLID LUMBER 5" X 4" OR LARGER SHALL BE DOUGLAS FIR #2 (DF #2) U.N.O. ALL GLUE-LAMINATED LUMBER SHALL BE GLULAM 24F-1.8E WS. DESIGN VALUES FOR GLULAM BEAMS
- FLEXURAL STRESS TENSION ZONE
- FLEXURAL STRESS COMPRESSION ZONE COMPRESSION PERPENDICULAR TO GRAIN SHEAR APPARENT E TRUE E
- 2,400 PSI 1.850 PSI 650 PSI 266 PSI 1.8x16 lb-in² 1.9x10 lb-in²
- 36. LUMBER IN CONTACT WITH CONCRETE AND ALL EXTERIOR WOOD SHALL BE PRESSURE TREATED, ALL CONNECTORS GALVANIZED.
- 37. INSTALL SOLID BLOCKING BTWN JOISTS AT ALL BEARING POINTS. THROUGH BOLTS AND LAG BOLTS SHALL BE ASTM A307. PROVIDE MALLEABLE IRON WASHER AT ALL BOLT AND LAG BOLT LOATIONS. PROVIDE CUT WASHER FOR ALL BOLTS PROTRUDING BEARING WOOD.
- 38 ALL METAL (CONNECTORS, NAILS, BOLTS, ETC.) IN CONTACT WITH P.T. WOOD SHALL BE HOT DIPPED GALVANIZED.
- 39. U.N.O. CONNECTORS AND FASTENERS SHALL COMPLY WITH IBC TABLE 2304.10.1

OPEN WEB TRUSSES

- 40. THE INSTALLATION OF OPEN WEB TRUSSES SHALL COMPLY WITH THE REQUIREMENTS OF IBC 2018 TABLE 1705.2.3.
- 41. OPEN WEB TRUSS SHOP DRAWINGS SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF WASHINGTON.

COMPARIS (inches) O

TYPE

COMMON

BOX

SINKER

50 F 1	ON OF COMMON, BOX AND SINKER NAIL DIMENSIONS THE SAME PENNYWEIGHT.					
	FEATURE	PENNYWEIGHT				
		6d	8d	10d	12d	16d
	Length	2	2-1/2	3	3-1/4	3-1/2
	Diameter	0.113	0.131	0.148	0.148	0.162
	Head	0.226	0.281	0.312	0.312	0.344
	Length	2	2-1/2	3	3-1/4	3-1/2
	Diameter	0.099	0.113	0.128	0.128	0.135
	Head	0.266	0.297	0.312	0.312	0.344
	Length	1-7/8	2-3/8	2-7/8	3-1/8	3-1/4
	Diameter	0.092	0.113	0.120	0.135	0.148
	Head	0.231	0.266	0.281	0.312	0.344

KEY NO.	MAIN FLOOR ALTERATIONS
1.1	Rafters, HF No.2, 2x12" @ 24" o.c.
1.2	Glulam WS, 24F-1.8E, 3-1/8x12"
1.3	Post, PSL, 1.8E, 3-1/2x3-1/2"
1.4	Header, DF No.2, 4x8"
1.5	Cont. Footing, $fc = 2,500 psi, 12x8$ "
1.6	Spread Footing, fc = 2,500 psi, 24x24x8"

2.1 M	anufactured Trusses @ 24" o.c.
2.2 He	eader, DF No.2, 4x8"
2.3 T.	JI 110, 1-3/4x11-7/8" @ 16" o.c.
2.4 Be	eam, DF No.2, 4x12"
2.5 D	bl. Joists, HF No.2, (2) 2x8", P.T.
2.6 Co	ont. Footing, fc = 2,500 psi, 16x8"

KEY NO.	SECOND STORY ADDITION
3.1	Manufactured Trusses @ 24" o.c.
3.2	Header, DF No.2, 4x10"
3.3	Header, DF No.2, 4x6"
3.4	Beam, DF No.2 6x10"
3.5	Post, HF No.2, 6x6", P.T.
3.6	TJI 210, 2-1/16x16" @ 16" o.c.
3.7	Deck Joists, HF No.2, 2x12" @ 16" o.c., P.T.
3.8	Beam, PSL, 2.2E, 2900Fb, 5-1/4x18"
3.9	Beam, PSL, 2.2E, 2900Fb, 5-1/4x18"
3.10	Glulam WS, 24F-1.8E, 5-1/2x21"
3.11	Post within Wall, DF No.2, 6x6"
3.12	TJI 230, 2-5/16x11-7/8" @ 16" o.c.
3.13	Header, DF No.2, 4x12"
3.14	Stair Stringers, HF No.2, 2x12" @ 12" o.c., P.T.
3.15	Landing Joists, HF No.2, 2x6" @ 16" o.c., P.T.
3.16	Beam, flush, LSL, 1.55E, 2325Fb, 3-1/2x11-7/8"
3.17	Spread Footing, fc = 2,500 psi, 72x72x16
3.18	Spread Footing, fc = 2,500 psi, 48x48x8"
3.19	Steel Moment Frame, Columns HSS8x8x0.5, Beam W12x50, Grade 50

KEY NO.	MAIN FLOOR ALTERATIONS
1.1	Rafters, HF No.2, 2x12" @ 24" o.c.
1.2	Glulam WS, 24F-1.8E, 3-1/8x12"
1.3	Post, PSL, 1.8E, 3-1/2x3-1/2"
1.4	Header, DF No.2, 4x8"
1.5	Cont. Footing, fc = 2,500 psi, 12x8"
1.6	Spread Footing, fc = 2,500 psi, 24x24x8"

KEY NO.	NEW SUN ROOM
2.1	Manufactured Trusses @ 24" o.c.
2.2	Header, DF No.2, 4x8"
2.3	TJI 110, 1-3/4x11-7/8" @ 16" o.c.
2.4	Beam, DF No.2, 4x12"
2.5	Dbl. Joists, HF No.2, (2) 2x8", P.T.
2.6	Cont. Footing, $fc = 2,500 psi, 16x8$ "

KEY NO.	SECOND STORY ADDITION				
3.1	Manufactured Trusses @ 24" o.c.				
3.2	Header, DF No.2, 4x10"				
3.3	Header, DF No.2, 4x6"				
3.4	Beam, DF No.2 6x10"				
3.5	Post, HF No.2, 6x6", P.T.				
3.6	TJI 210, 2-1/16x16" @ 16" o.c.				
3.7	Deck Joists, HF No.2, 2x12" @ 16" o.c., P.T.				
3.8	Beam, PSL, 2.2E, 2900Fb, 5-1/4x18"				
3.9	Beam, PSL, 2.2E, 2900Fb, 5-1/4x18"				
3.10	Glulam WS, 24F-1.8E, 5-1/2x21"				
3.11	Post within Wall, DF No.2, 6x6"				
3.12	TJI 230, 2-5/16x11-7/8" @ 16" o.c.				
3.13	Header, DF No.2, 4x12"				
3.14	Stair Stringers, HF No.2, 2x12" @ 12" o.c., P.T.				
3.15	Landing Joists, HF No.2, 2x6" @ 16" o.c., P.T.				
3.16	Beam, flush, LSL, 1.55E, 2325Fb, 3-1/2x11-7/8"				
3.17	Spread Footing, fc = 2,500 psi, 72x72x16				
3.18	Spread Footing, fc = 2,500 psi, 48x48x8"				
3.19	Steel Moment Frame, Columns HSS8x8x0.5, Beam W12x50, Grade 50				

FRAMING ABOVE LOWER FLOOR

KEY NO.	MAIN FLOOR ALTERATIONS
1.1	Rafters, HF No.2, 2x12" @ 24" o.c.
1.2	Glulam WS, 24F-1.8E, 3-1/8x12"
1.3	Post, PSL, 1.8E, 3-1/2x3-1/2"
1.4	Header, DF No.2, 4x8"
1.5	Cont. Footing, $fc = 2,500 psi, 12x8$ "
1.6	Spread Footing, $fc = 2,500 psi, 24x24x8$ "

KEY NO.	NEW SUN ROOM
2.1	Manufactured Trusses @ 24" o.c.
2.2	Header, DF No.2, 4x8"
2.3	TJI 110, 1-3/4x11-7/8" @ 16" o.c.
2.4	Beam, DF No.2, 4x12"
2.5	Dbl. Joists, HF No.2, (2) 2x8", P.T.
2.6	Cont. Footing, $fc = 2,500 psi, 16x8$ "

KEY NO.	SECOND STORY ADDITION			
3.1	Manufactured Trusses @ 24" o.c.			
3.2	Header, DF No.2, 4x10"			
3.3	Header, DF No.2, 4x6"			
3.4	Beam, DF No.2 6x10"			
3.5	Post, HF No.2, 6x6", P.T.			
3.6	TJI 210, 2-1/16x16" @ 16" o.c.			
3.7	Deck Joists, HF No.2, 2x12" @ 16" o.c., P.T.			
3.8	Beam, PSL, 2.2E, 2900Fb, 5-1/4x18"			
3.9	Beam, PSL, 2.2E, 2900Fb, 5-1/4x18"			
3.10	Glulam WS, 24F-1.8E, 5-1/2x21"			
3.11	Post within Wall, DF No.2, 6x6"			
3.12	TJI 230, 2-5/16x11-7/8" @ 16" o.c.			
3.13	Header, DF No.2, 4x12"			
3.14	Stair Stringers, HF No.2, 2x12" @ 12" o.c., P.T.			
3.15	Landing Joists, HF No.2, 2x6" @ 16" o.c., P.T.			
3.16	Beam, flush, LSL, 1.55E, 2325Fb, 3-1/2x11-7/8"			
3.17	Spread Footing, fc = 2,500 psi, 72x72x16			
3.18	Spread Footing, fc = 2,500 psi, 48x48x8"			
3.19	Steel Moment Frame, Columns HSS8x8x0.5, Beam W12x50, Grade 50			

2ND STORY ADDITION SCALE: 1/4" = 1'-0" (1:48)

KEY NO.	SECOND STORY ADDITION					
3.1	Manufactured Trusses @ 24" o.c.					
3.2	Header, DF No.2, 4x10"					
3.3	Header, DF No.2, 4x6"					
3.4	Beam, DF No.2 6x10"					
3.5	Post, HF No.2, 6x6", P.T.					
3.6	TJI 210, 2-1/16x16" @ 16" o.c.					
3.7	Deck Joists, HF No.2, 2x12" @ 16" o.c., P.T.					
3.8	Beam, PSL, 2.2E, 2900Fb, 5-1/4x18"					
3.9	Beam, PSL, 2.2E, 2900Fb, 5-1/4x18"					
3.10	Glulam WS, 24F-1.8E, 5-1/2x21"					
3.11	Post within Wall, DF No.2, 6x6"					
3.12	TJI 230, 2-5/16x11-7/8" @ 16" o.c.					
3.13	Header, DF No.2, 4x12"					
3.14	Stair Stringers, HF No.2, 2x12" @ 12" o.c., P.T.					
3.15	Landing Joists, HF No.2, 2x6" @ 16" o.c., P.T.					
3.16	Beam, flush, LSL, 1.55E, 2325Fb, 3-1/2x11-7/8"					
3.17	Spread Footing, $fc = 2,500 psi, 72x72x16$					
3.18	Spread Footing, fc = 2,500 psi, 48x48x8"					
3.19	Steel Moment Frame, Columns HSS8x8x0.5, Beam W12x50, Grade 50					

LOWER LEVEL SHEAR WALL PLAN SCALE 1:64

SHEAR WA	LL SCHEDU	LE - NA	ILING PATT	ERN									
VERTICAL DIA	PHRAGM												
SHEARWALL APA RATED TYPE SHEATHING		SPAN INDEX	COMMON or GALVANIZED	NAI	LING	WALL STUD GRADE &	BLKG REQ'D	BLOCK SIZE	ABUTTING PLYWOOD	TOP PLATE	SOLE PLATE	FOUNDATION ANCHOR BOLTS	ALLOW ABLE LOAD
	THICKNESS & GRADE		BOX NAILS	EDGE	FIELD				PANEL EDGE MEMBER SIZE	SIZE & SPACING	NAILING SIZE &	SIZE & SPACING	SEISMIC / WIND (PLF)
P1-6	7/16" ONE FACE	24/0	8d	6" o.c.	12" o.c.	HEM-FIR @ 16" o.c.	yes	2x	2x	16d @ 5"	16d @ 5"	5/8" @ 48" o.c.	225 / 315 PLF
P1-3 ²	7/16" ONE FACE	24/0	8d	3" o.c.	12" o.c.	HEM-FIR @ 16" o.c.	yes	3x	Зх	(2) ROWS 16d @4"	(2) ROWS 16d @4"	5/8" @ 36" o.c.	425 / 590 PLF
P1-2 ²	15/32" ONE FACE	24/0	10d	2" o.c.	12" o.c.	HEM-FIR @ 16" o.c.	yes	Зх	Зх	(2) ROWS 16d @3"	(2) ROWS 16d @3"	5/8" @ 24" o.c.	725 / 1015 PLF
P2-3 ²	15/32" BOTH FACES	24/0	10d	3" o.c.	12" o.c.	HEM-FIR @ 16" o.c.	yes	Зх	Зх	(2) ROWS 16d @3"	(2) ROWS 16d @3"	5/8" @ 18" o.c.	1130 / 1580 PLF
P2-2 ²	19/32" BOTH FACES	24/0	10d	2" o.c.	12" o.c.	HEM-FIR @ 16" o.c.	yes	3x	Зх	(2) ROWS 16d @3"	(2) ROWS 16d @3"	5/8" @ 12" o.c.	1635 / 2290 PLF

STRAP SCHEDULE

SYMBOL	STRAP	WOOD MEMBER	NAILS
A	MST37	(2) 2x	20 -16d
В	MST48	(2) 2x	34 -16d
()	MST60	(2) 2x	46 - 16d
	D MSTC48B3		12-10d (Face), 4- 10d (Bottom); 38- 10d (Studs)
E	H6	(2) 2x	8 - 16d

HOLDOWN SCHEDULE

SYMBOL	HOLDOWN	EMBED. With EPOXY SET- XP	BOLT TYPE	MIN. WOOD MEMBER THICKNESS
	HDU2	7"	5/8"	(2) 2x
2	HDU4	9"	5/8"	(2) 2x
3	HDU5	11"	5/8"	(2) 2x
4	HDU8	15"	7/8"	(2) 2x
5	HDU14	18"	1"	DF 6x6"
				·

ANCHOR BOLT DETAIL (TYP.)

SCALE: 1" = 1'-0" (1:12)

HORIZONTAL DIAPHRAGM						
	THICKNESS &	SPAN	NAIL		NAILING	
	GRADE	INDEX	TYPE	BDRY	EDGE	FIELD
FLOOR NAILING	3/4" CDX T&G APA RATED SHEATHING	48/24	10d	6" o.c.	6" o.c.	12" o.c.
ROOF NAILING	7/16" APA RATED SHEATHING	24/0	8d	6" o.c.	6" o.c.	12" o.c.

NOTE:

For all non-Shear Walls use nailing pattern, bolt and clip size/spacing for P1-6

Wall Sheathing per SW Schedule

Simpson Holdown (see shearwall plan for Typ and locations)

-Sill Plate 2 x 6", PT

for min. embedm. see Holdown Schedule

HOLDOWN DETAIL (TYP.) SCALE: 1" = 1'-0" (1:12)

SHEAR WALL NOTES

- 1. ALL SHEAR WALLS SHALL CONFORM TO IBC SECTION 23 REQMTS. APPLY NAILING TO ALL STUDS, TOP AND BOTTOM PLATES AND BLOCKINGS. SHEATHING SHALL BE INSTALLED VERTICALLY W/ 4x10 SHEETS FROM THE SILL PLATE AT THE FOUNDATION TO THE LOWER OF THE DOUBLED TOP PLATES AT THE MAIN LEVEL AND FROM THE UPPER OF THE DOUBLE TOP PLATES OF THE WALL TO THE TOP OF THE DOUBLED TOP PLATE AT THE UPPER LEVEL(S).
- 2. WHERE APA SHEATHING IS APPLIED ON BOTH FACES OF THE WALL AND NAILS SPACING IS LESS THAN 6" O.C. EITHER SIDE, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBER, OR FRAMING SHALL BE 3x NMOMINAL AND NAILS ON EACH SIDE SHALL BE STAGGERED, WHERE ALLOWABLE SHEAR VALUES EXCEED 350PLF (NAIL SPACING 4" OR LESS, OR SHEAR WALLS W/ PLYWOOD APPLIED ON EACH SIDE OF THE STUD WALL) FOUNDATION SILL PLATES AND FRAMING ABUTTING PANEL EDGES SHALL BE 3x NOMINAL OR (2) 2x W/ STAGGERED NAILING.
- 3. ABOVE LISTED ALLOWABLE SHEAR CAPACITIES ARE ADJUSTED FOR USE OF HEM-FIR STUDS, SPACED NO MORE THAN 16" O.C. AND SHEATHING APPLIED DIRECTLY TO FRAMING MEMBERS.
- ALL FASTENERS SHALL BE DRIVEN FLUSH W/ SURFACE SHEATHING.
- 5. PROVIDE A SINGLE JOIST OR MIN. 2x SOLID BLOCKING AND AT THE TOP OF ALL SHEARWALLS.

Roland Heimisch, P. E.

ENGINEER:

MAIN LEVEL SHEAR WALL PLAN SCALE 1:64

UPPER LEVEL SHEAR WALL PLAN SCALE 1:64

tecinstruct 4111 164th St SW, Lynnwood, WA 98087 (206) 553 9076 - rheimisch@yahoo.com	LLC

BUILDER:	Renee Lund	SHEET
JOB SITE:	8520 SE 82nd St, Mercer Island, WA 98040	
PROJECT #		
DESCRIPTION:	Remodel and Addition	
DATE:	07/29/2023 SCALE: as noted	10
ENGINEER:	Roland Heimisch, P. E.	

LEGEND

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FOUND MONUMENT IN CASE
FOUND MONUMENT IN CASE
FOUND REBAR & CAP
BENCHMARK
SET REBAR & CAP L.S.#42676
FOUND NAIL
SET NAIL/WASHER L.S.#42676
SET HUB & LATH
MEASURED
PLAT OF ISLAND POINT, VOL. 75, PG. 88
WATER METER
IRRIGATION CONTROL VALVE
SEWER MANHOLE
CATCH BASIN
AREA DRAIN
TELEPHONE RISER
ROCKERY
GAS METER
WATER LINE
STORM LINE
SEWER LINE
WOOD FENCE (WF)
VINYL FENCE (VF)
WIRE FENCE (WIF)
HEDGE LINE
STUMP
EVERGREEN TREE
DECIDUOUS TREE
CONCRETE
ASPHALT
GRAVEL

REVISIONS	DESCRIPTION BY DATE			C THE PLANS SET FORTH ON THIS SHEET ARE AND SHALL REMAIN THE PROPERTY OF ENCOMPASS ENGINEERING & SURVEYING.
	LI LS PROFILES	D. d. oF 426 MALL	76 ERED 03/2	SIFE Y HOURS
	TOPOGRAPHIC SURVEY	FOR	RENEE LUND	
	Fucompace	ENGINEERING & SURVEYING	Western Washington Division 165 NE Juniper Street, Suite 201 = Issaquah, WA 98027 = Phone: (425) 392-0250 Eastern Washington Division	407 Swiftwater Blvd. • Cle Elum, WA 98922 • Phone: (509) 674-7433
JC DA SC DE DF CI AI	DB NO ATE CALE SIGNE AWN HECKE PPROV	: :D :ED	235 03/2 1"= N/ LF JL SE	513 8/23 20' /A M .S DM

Rich Design Group

(253) 951-8049 www.richdesigngroup.com richdesign1@comcast.net

FIRE DAMAGE RESTORATION , REMODEL AND ADDITION 8520 SE 82ND ST MERCER ISLAND, WA 98040 **RENEE LUND RESIDENCE** SITE TESC PLAN DRAWN BY PHF PROJECT # DATE 1/4/2024 9:58:51 AM SCALE AS NOTED

SHEET TESC01

SYMBOLS LEGEND

	LIMITS OF DISTURBANCE
<u> </u>	<u>SILT FENCE</u>
	<u>SETBACK</u>
	<u>FOUNDATION BUILDING</u> FOOTPRINT
	SEWER LINE
D	<u>FOOTING DRAIN -</u> <u>4" PVC TIGHTLINE</u>
	<u>ROOF DRAIN - 4" PVC</u>
	HARDSCAPE BOUNDRY
	PLANTING AREA
	DRYWELL

DOWNSPOUT

FIG. 1.2 - SILT FENCING

NTS

STABILIZED CONSTRUCTION ENTRANCE NTS

NOTES:

- 1. STONE SIZE- USE 4" STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- 2. LENGTH AS REQUIRED BUT NOT LESS THAN 50' (EXCEPT ON SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH WOULD APPLY).
- 3. THICKNESS NOT LESS THAN 12"
- 4. WIDTH 20' MINIMUM BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- 5. "FILTER FABRIC SHALL BE WOVEN STABILIZATION FABRIC WITH A MINIMUM PERMITTIVITY OF 0.9(SEC-1). PLACE FILTER FABRIC OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER FABRIC IS NOT REQUIRED FOR A SINGLE FAMILY RESIDENCE LOT"
- 6. MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WHEEL WASHING WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC 7. RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- 8. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

(253) 951-8049 www.richdesigngroup.com richdesiqn1@comcast.net

SHEET TESC02