PROJECT: LOO & WAI'S REMODEL REMODEL INTERIOR, REPLACE WINDOWS, AND BUMP OUT

#### SUBJECT SITE ADDRESS: 4124 94th PI SE Mercer Island 98040

#### LEGAL DESCRIPTION: MERCERWOOD DIV #10

PLAT BLOCK: PLAT LOT: 2

PARCEL TAX ID #:	546060-0020
YEAR BUILT:	1974
ZONE:	R-8.4
JURISDICTION:	MERCER ISLAND

Area Summary:	≤.f.	$\sim$
Existing Main Floor Existing Finished Basement Existing Attached Garage Existing Deck Proposed Deck Removal	650  4 0 400 364 -  4	
Proposed Garage "Addition" Total	<u>28</u> 3,738	
Lot Size	12,351	
% of Lot	30.3%	
Impervious Surface Coverad (Pr) Principal Building Roof (Ex) Conc. Driveway (Ex) Deck w/ Removal (Ex) Exterior Stairs (Ex) Walkway + Landing Pad to Ext. Stair (Pr) Walkway (Main Entrance) Total Lot Size % of Lot	2,577 280 114 38	
Lot Slope Calculation Highest Elevation Point of Lot Lowest Elevation Point of Lot Elevation Difference Horizontal Difference Low & High Point	3 8.77' 267.59' 5 . 8'  46.84'	
Calculation: $(51.18/146.84) \times 100 = 3$	34.9%	

 $\overline{\phantom{a}}$ 

VALUATION OF THE WORK:	
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CONSTRUCTION	\$ 120,000
DMINISTRATION	10,000
IATERIAL	120,000
OTAL	\$ 250,000

#### CONTACTS INFORMATION

Kevin Ka Wing Loo & Ting Wai Owner: 4 | 24 94th PI SE Mercer Island 98040 Address: 425-301-0883 Phone: Email: alıcewaıtıng@hotmaıl.com

#### Contractor:

Contact:	Chris Vong (M¢C Remodeling LLC)
Address:	3732 S Perry St Seattle WA 98118
Phone:	206-393-2167
Email:	vong_chris@yahoo.com

Structural Design Engineer:

Contact:	Ken Nguyen	
Address:	17614 ME 29th St - Redmond WA	98052
Phone:	425-89 -5	
Email:	HouseDesign4u@outlook.com	

CODES	
2018 International Building Code	2
2018 International Residential C	С

2018 International Mechanical Code (IMC) 2018 International Fuel Gas Code (IFGC)

ode (IRC

2018 International Fire Code (IFC)

#### DESIGN CRITERIA NOTES

ROOF DEAD LOAD	= 10.0 PSF	
ROOF LIVE LOAD	= 25.0 PSF	
FLOOR DEAD LOAD	= 10.0 PSF	
FLOOR LIVE LOAD	= 40.0 PSF	
DECK DEAD LOAD	= 10.0 PSF	
DECK LIVE LOAD	= 60.0 PSF	
SOIL BEARING CAPACITY	= 2000 PSF	
WIND		
BASIC WIND SPEED	= IIO MPH	
EXPOSURE	- B	
SEISMIC		
$\overline{\text{SOIL SITE CLASS}} = D$		
$S_5 = 1.291$ $S_1 = 0.522$	3 S <sub>DS</sub> = 0.861	S <sub>D1</sub> = 0.523

#### CARBON MONOXIDE DETECTORS:

FOR NEW CONSTRUCTION, AN APPROVED CARBON MONOXIDE ALARM SHALL BE INSTALLED OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATELY VICINITY OF THE BEDROOMS IN DWELLING UNITS AND ON EACH LEVEL OF THE DWELLING AND IN ACCORDANCE WITH THE MANUFACTURES DIRECTIONS.

#### SMOKE DETECTORS:

SMOKE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS: I. IN EACH SLEEPING ROOM

2. OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS.

3. ON EACH ADDITIONAL STORY OF THE DWELLING, INCLUDING BASEMENTS, BUT NOT INCLUDING CRAWLSPACES AND UNINHABITABLE ATTICS. IN DWELLINGS OR DWELLINGS UNITS WITH SPLIT LEVELS AND WITHOUT AN INTERVENING DOOR BETWEEN ADJACENT LEVELS, A SMOKE ALARM INSTALLED ON THE UPPER FLOOR SHALL SUFFICE FOR THE ADJACENT LOWER LEVEL PROVIDE THAT THE LOWER LEVEL IS LESS THAN ONE FULL STORY BELOW THE UPPER LEVEL.

4. SMOKE DETECTOS TO BE HARWIRE, INTERCONNECTED WITH BATTERY BACKUP.

#### RECESSED LIGHTING: (R402.4.4) \* RECESSED LUMINAIRES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE TYPE IC-RATED AND CERTIFIED UNDER ASTM E283 AS HAVING AN AIR LEAKAGE RATE NOT MORE THAN 2 CFM WHEN TESTED AT A 1.57 PSF PRESSURE DIFFERENTIAL AND SHALL HAVE A LABEL ATTACHED SHOWING COMPLIANCE WITH THIS TEST METHOD. ALL RECESSED LUMINAIRES SHALL BE SEALED WITH A

GASKET OR CAULK BETWEEN THE HOUSING AND THE INTERIOR WALL OR CEILING COVERING.

#### PROGRAMMABLE THERMOSTAT.

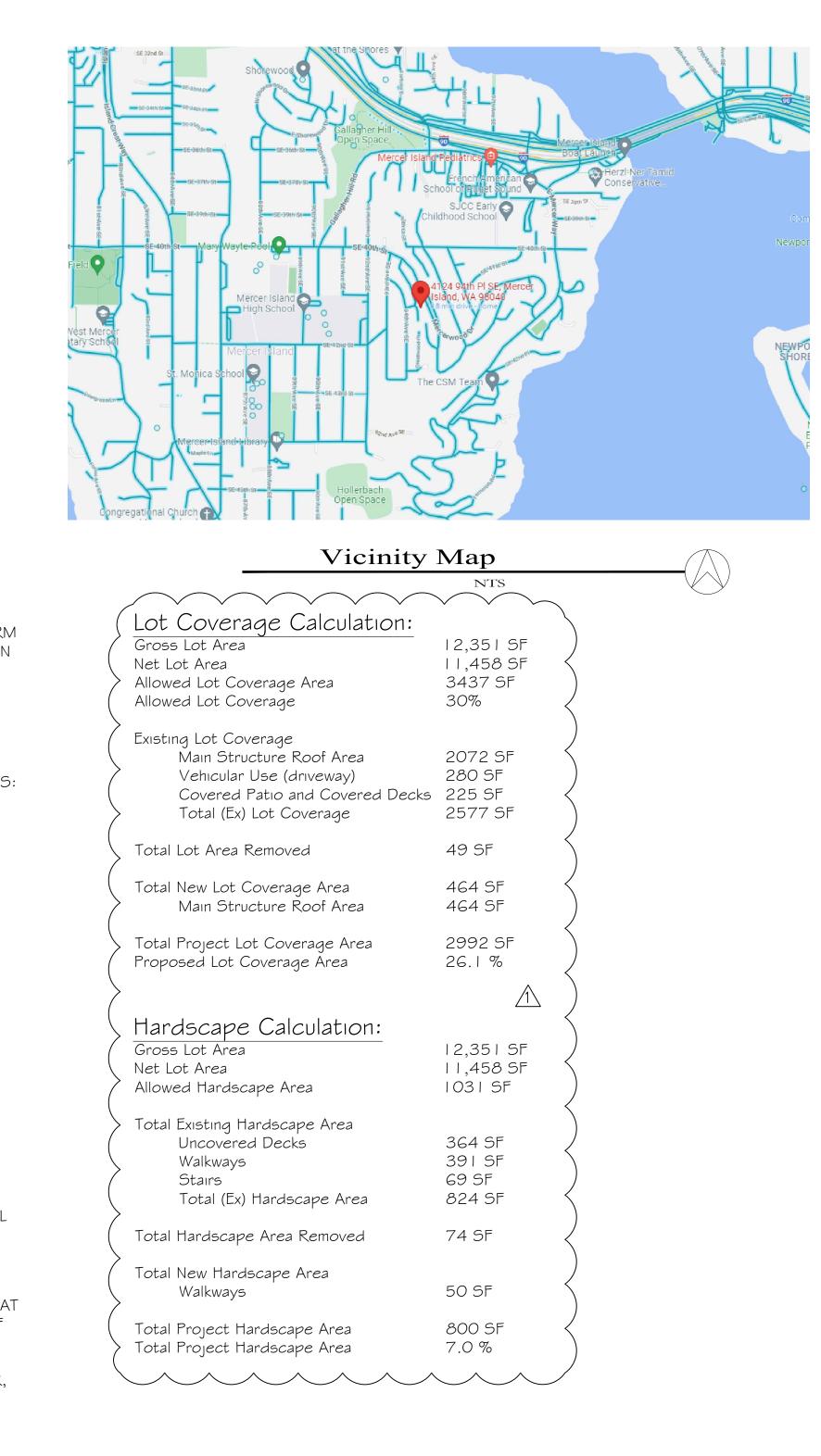
WHERE THE PRIMARY HEATING SYSTEM IS A FORCED-AIR FURNACE, AT LEAST ONE THERMOSTAT PER DWELLING UNIT SHALL BE CAPABLE OF CONTROLLING THE HEATING AND COOLING SYSTEM ON A DAILY SCHEDULE TO MAINTAIN DIFFERENT TEMPERATURE SET POINTS AT DIFFERENT TIMES OF THE DAY. THE THERMOSTAT SHALL ALLOW FOR, AT A MINIMUM, A 5-2 PROGRAMMABLE SCHEDULE (WEEKDAYS/WEEKENDS) AND BE CAPABLE OF PROVIDING AT LEAST TWO PROGRAMMABLE SETBACK PERIODS PER DAY. THIS THERMOSTAT SHALL INCLUDE THE CAPABILITY TO SET BACK OR TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN ZONE TEMPERATURES DOWN TO 55°F (13°C) OR UP TO 85°F (29°C). THE THERMOSTAT SHALL INITIALLY BE PROGRAMMED WITH A HEATING TEMPERATURE SET POINT NO HIGHER THAN 70°F (21°C) AND A COOLING TEMPERATURE SET POINT NO LOWER THAN 78°F (26°C). THE THERMOSTAT AND/OR CONTROL SYSTEM SHALL HAVE AN ADJUSTABLE DEADBAND OF NOT LESS THAN 10°F.

SEALING (R403.2.2) DUCTS, AIR HANDLERS, AND FILTER BOXES SHALL BE SEALED. JOINTS AND SEAMS SHALL COMPLY WITH EITHER THE INTERNATIONAL MECHANICAL CODE OR INTERNATIONAL RESIDENTIAL CODE, AS APPLICABLE.

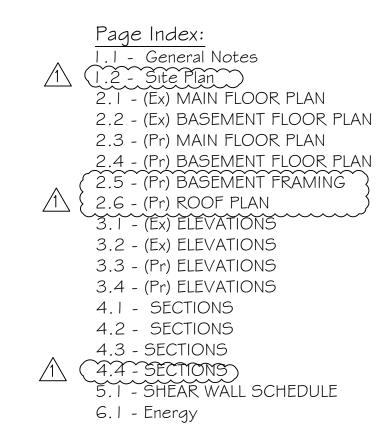
#### BUILDING CAVITIES

(R403.2.3) BUILDING FRAMING CAVITIES SHALL NOT BE USED AS DUCTS OR PLENUMS. INSTALLATION OF DUCTS IN EXTERIOR WALLS, FLOORS OR CEILINGS SHALL NOT DISPLACE REQUIRED ENVELOPE INSULATION.

MECHANICAL SYSTEM PIPING INSULATION (R403.3) MECHANICAL SYSTEM PIPING CAPABLE OF CARRYING FLUIDS ABOVE 105°F (41°C) OR BELOW 55°F (13°C) SHALL BE INSULATED TO A MINIMUM OF R-G.

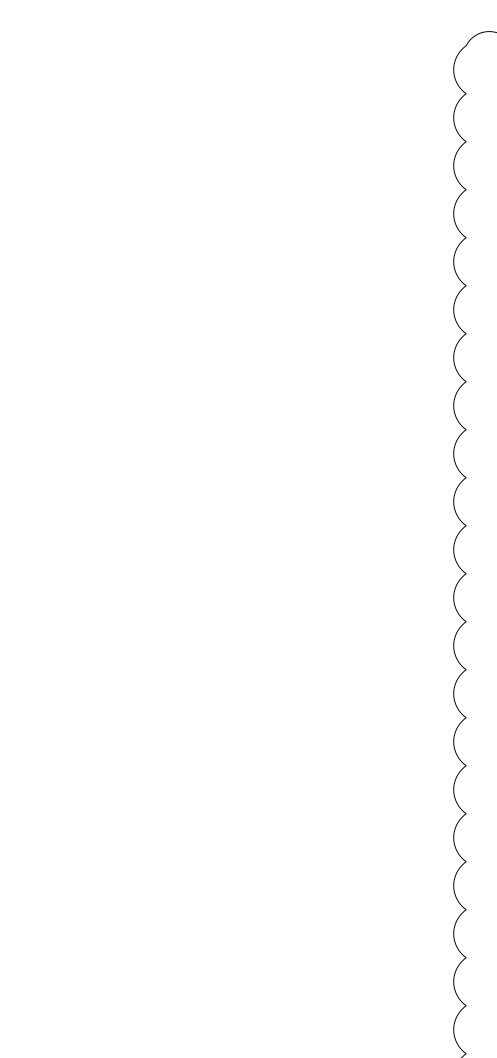


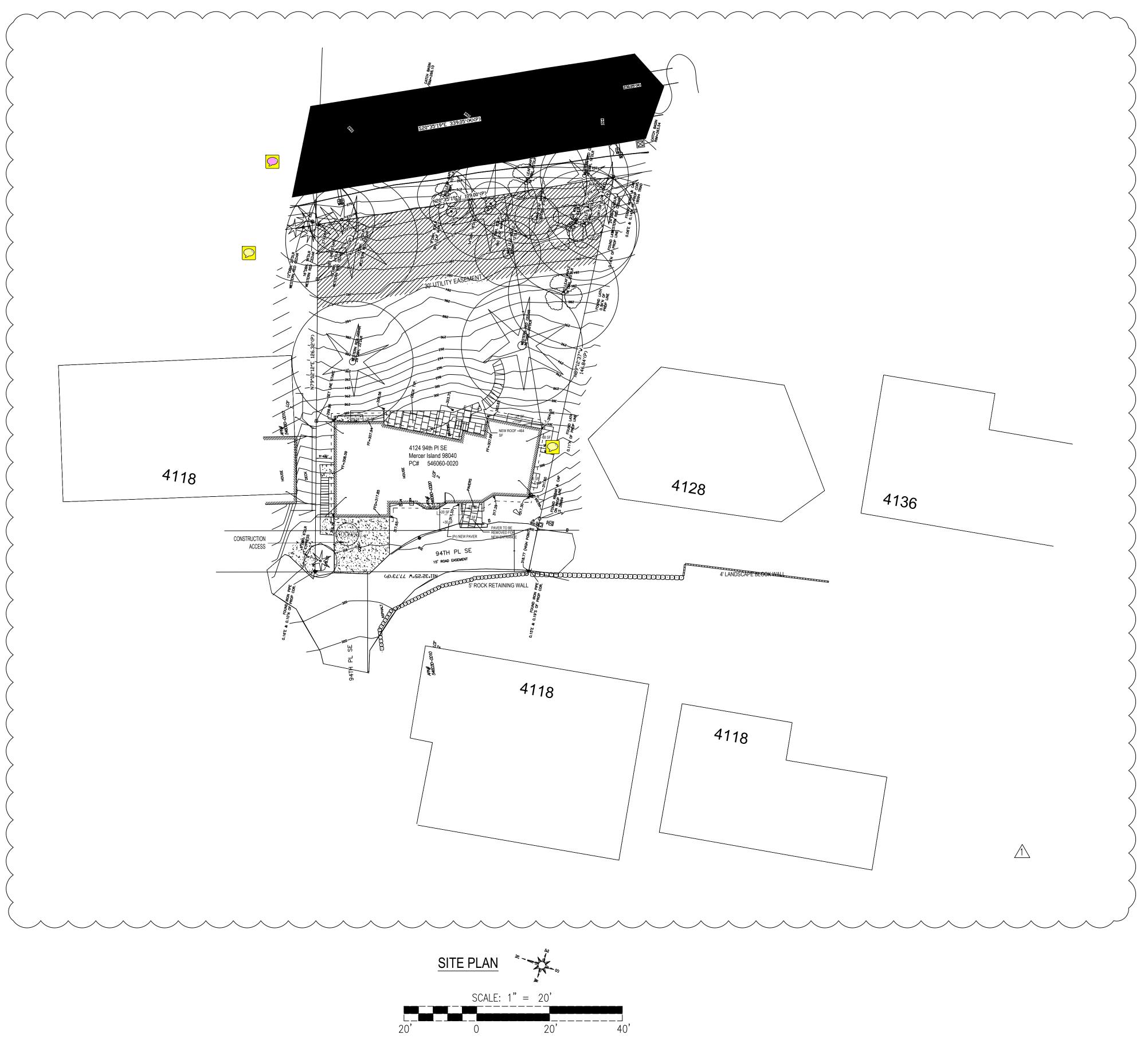
NOTES: SITE PLAN Was Moved to Sheet 1.2 \* ELECTRICAL OR PLUMBING UNDER SEPARATE PERMIT. \* ALL REPLACED EGRESS WINDOWS AND DOORS REQUIRED INSPECTION. \* EXISTING CEILING, WALL OR FLOOR CAVITIES EXPOSED DURING CONSTRUCTION PROVIDED THESE CAVITIES ARE FILLED WITH INSULATIONS, SHALL BE REINSULATED AS FOLLOWS: Wood Wall Use R-21 int R-21 int + TB Basement Wall Use Slab on Grade R-10 perimeter and under entire slab Below Grade R-10 permieter and under entire slab R-30 Floor Use R-49 Ceiling Use







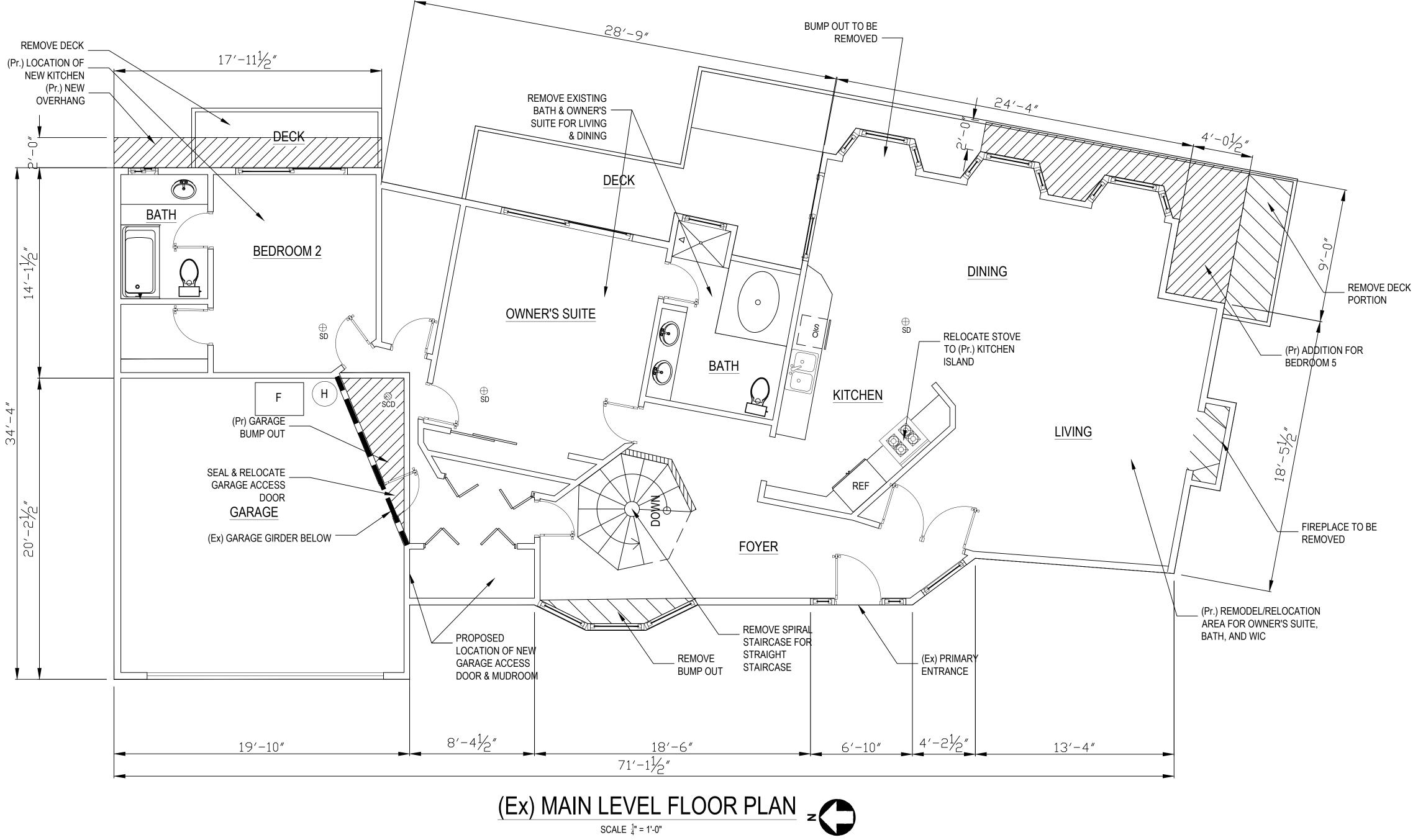




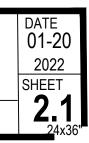


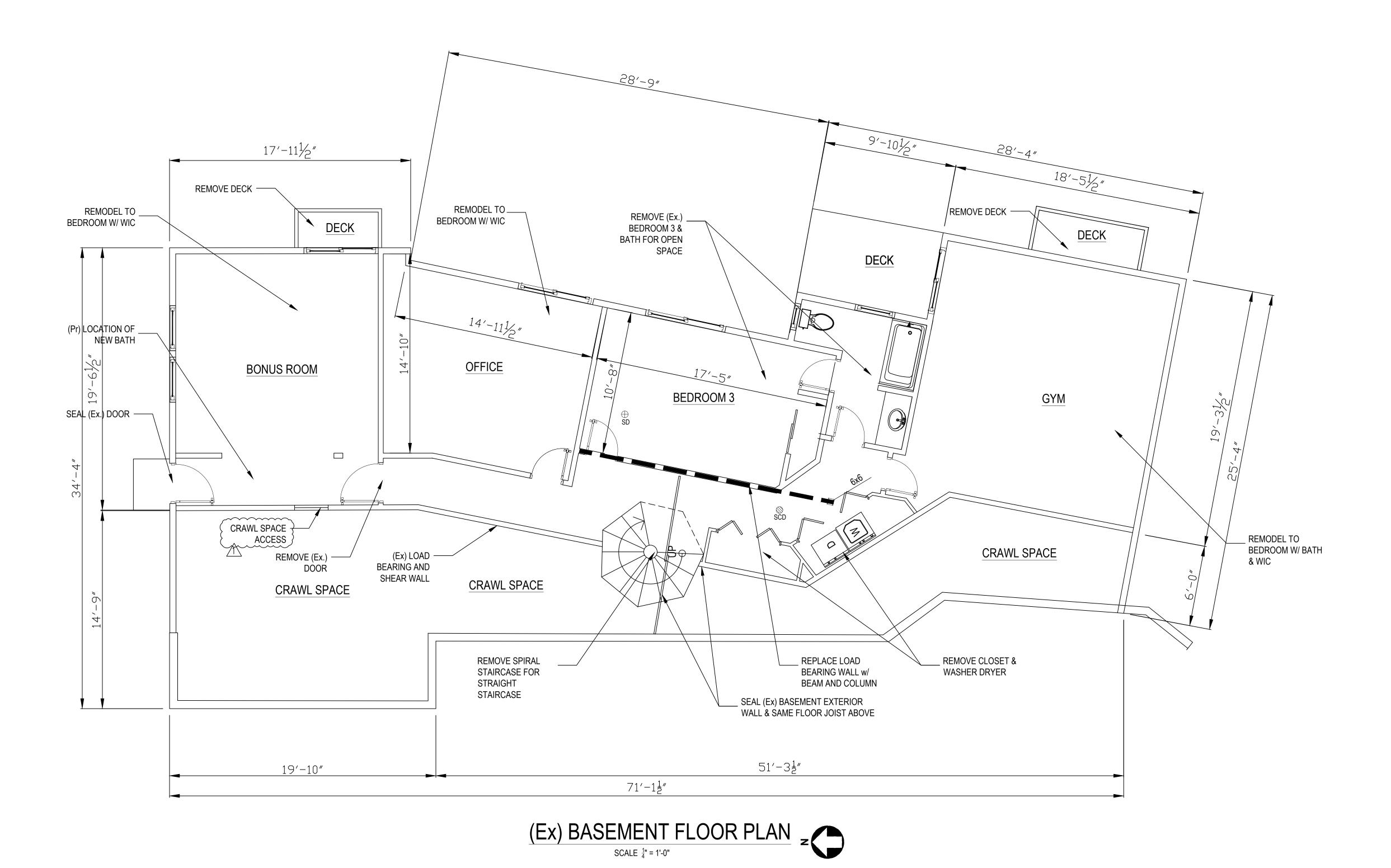
Loo & Wai's Remodel	DATE
4124 94th PI SE	01-20
Mercer Island 98040	2022
SITE PLAN	SHEET <b>1.2</b> 24x36

11-28-22 REV# 🔨

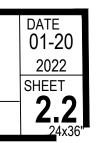












#### FRAMING LUMBER:

I. FRAMING LUMBER SHALL BE DOUGLAS FIR/LARCH NO. I FOR POSTS, BEAMS, AND HEADERS. HEM-FIR/LARCH NO.2 (OR BETTER) AND STUDS, AND HEM FIR NO.2 OR BETTER FOR ALL TOP AND BOTTOM PLATES (GRADES ARE TYPICAL UNLESS OTHERWISE NOTED ON PLANS). LUMBER TO BE GRADE MARKED PER WCLIB SPECIFICATIONS.

2. STRUCTURAL SHEATHING SHALL BE APA RATED, EXPOSURE I SHEATHING CONFORMING TO EITHER COMMERCIAL STANDARDS PSI-83, APA PRP-108, OR VOLUNTARY PRODUCT STANDARD PS2-92. SHEATHING INDEXES AND THICKNESS ARE NOTED ON THE PLANS. PROVIDE MINIMUM OF  $\frac{3}{8}$ " EDGE DISTANCE ON ALL NAILS AND A 1/8" EXPANSION JOINT BETWEEN ALL PANEL EDGES.

3. NAILING SHALL CONFORM TO TABLE R602.3(1) OF THE IRC 2015 UNLESS NOTED OTHERWISE. 4. NO STRUCTURAL MEMBER SHALL BE CUT OR NOTCHED UNLESS

SPECIFICALLY DETAILED OR APPROVED IN WRITTEN BY THE STRUCTURAL ENGINEER.

5. USE DOUBLE JOIST UNDER WALLS OR PARTITIONS PARALLEL TO JOISTS UNLESS SPECIFICALLY NOTED OTHERWISE. USE SOLID BLOCKING UNDER PARTITIONS PERPENDICULAR TO JOISTS.

6. MAXIMUM MOISTURE CONTENT SHALL NOT EXCEED 16% FOR ALL STRUCTURAL MEMBERS.

7. PROVIDE WASHERS UNDER HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD.

8. BOLT HOLES SHALL BE NOMINAL DIAMETER OF BOLT PLUS  $/_{6}$ " UNLESS OTHERWISE NOTED. LAG BOLT, PILOT HOLES SHALL BE PRE-DRILLED TO 60% OF THE NOMINAL DIAMETER OF THE LAG BOLT UNLESS OTHERWISE NOTED.

9. ALL SILL PLATES SHALL BE BOLTED TO THE FOUNDATION WITH  $\frac{5}{8}$ " MINIMUM Ø BOLTS SPACED AT 48" O.C. MAXIMUM SPACING (EMBED 5" MINIMUM INTO CONCRETE OR MASONRY). SEE PLANS AND DETAILS FOR SPECIFIC REQUIREMENTS WHERE THEY OCCUR.

10. ALL FRAMING LUMBER IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE TREATED (SEE NOTE | FOR MINIMUM GRADE INFORMATION).

II. EXTERIOR STUD WALL SHALL BE 2x6 AT 24" O.C. UNLESS NOTED OTHERWISE. INTERIOR STUD BEARING WALLS SHALL BE

CONSTRUCTED USING 2x4 AT 16" O.C. BELOW TOP TWO FLOORS. STUD NONBEARING WALLS SHALL BE CONSTRUCTED USING 2x4 AT 24" O.C. UNLESS OTHERWISE NOTED. SEE NOTE I FOR LUMBER GRADE OF STUDS AND PLATES.

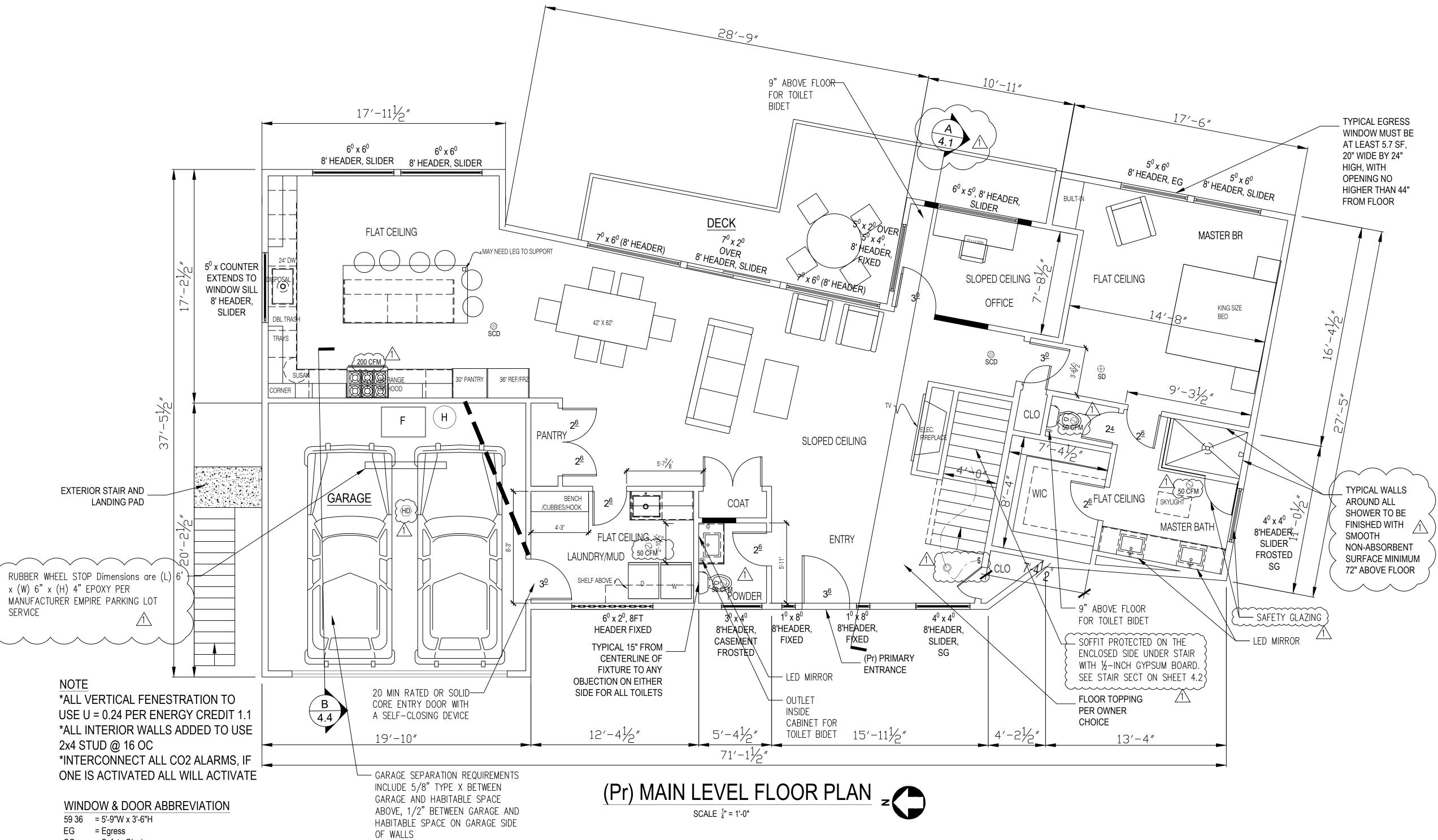
12. FRAMING ANCHORS FOR JOISTS PURLING AND POSTS SHALL BE SIMPSON, OR APPROVED EQUAL APPROVAL MUST BE OBTAINED IN WRITING PRIOR TO INSTALLATION. FILL ALL FASTENER HOLES WITH FASTENER TYPES (NAILS, BOLTS, ETC ... ), SIZES, AND QUANTITIES AS SPECIFIED BY THE MANUFACTURER.

13. FASTENERS INSTALLED IN PRESERVATIVE-TREATED WOOD SHALL BE HOT-DIPPED ZINC-COATED GALVANIZED WITH A MINIMUM COATING WEIGHT COMPLYING WITH ASTM A 153. THIS INCLUDES NUTS AND WASHERS. FASTENERS OTHER THAN NAILS AND TIMBER RIVETS ARE PERMITTED TO BE MECHANICALLY DEPOSITED ZINC-COATED WITH COATING WEIGHTS COMPLYING WITH ASTM B 695, CLASS 55 MINIMUM. PLAIN CARBON STEEL FASTENERS IN WOOD PRESERVATIVE TREATED WITH SBX/DOT OR ZINC BORATE ARE NOT REQUIRED TO BE GALVANIZED. SEE IRC SECTION 317.3

14. PER R302.11, FIRE BLOCKING SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) TO FORM AN EFFECTIVE FIRE BARRIER BETWEEN STORIES, AND BETWEEN A TOP STORY AND THE ROOF SPACE

### ELECTRICAL LEGEND:

- ⊕sp Smoke Detector
- H Heat detector
- Smoke + Carbon Detector SCE Exhaust Fan
- (Vent to Exterior) 50 CFM Recessed 13W LED Light Fixture
- © Ceiling Mounted Light Fixture
- ----- Wall Mounted Light Fixture
- ₅ 3-Way Switch
- **\$3** 110V Wall Outlet
- $\oplus$  220V Wall Outlet
- $\stackrel{\scriptstyle\scriptstyle\scriptstyle{\leftarrow}}{\oplus}$  CAT 6E Ethernet 2 Sockets
- CG-Universal Serial Bus
- Thermostat
- The Warm Air Supply
- Warm Air Supply (ToeKick)
- Whole House Ventilation  $\downarrow$
- $_{\odot}$  (Vent to Exterior)
- WHF Automation Panel
- HA LED Fluorescent Tube Light
- FLUOR Solar Motion Activated LED



- SG = Safety Glazing
- = Slider Door SL
- OB = Obscure Glass
- WS = Weather Seals Door

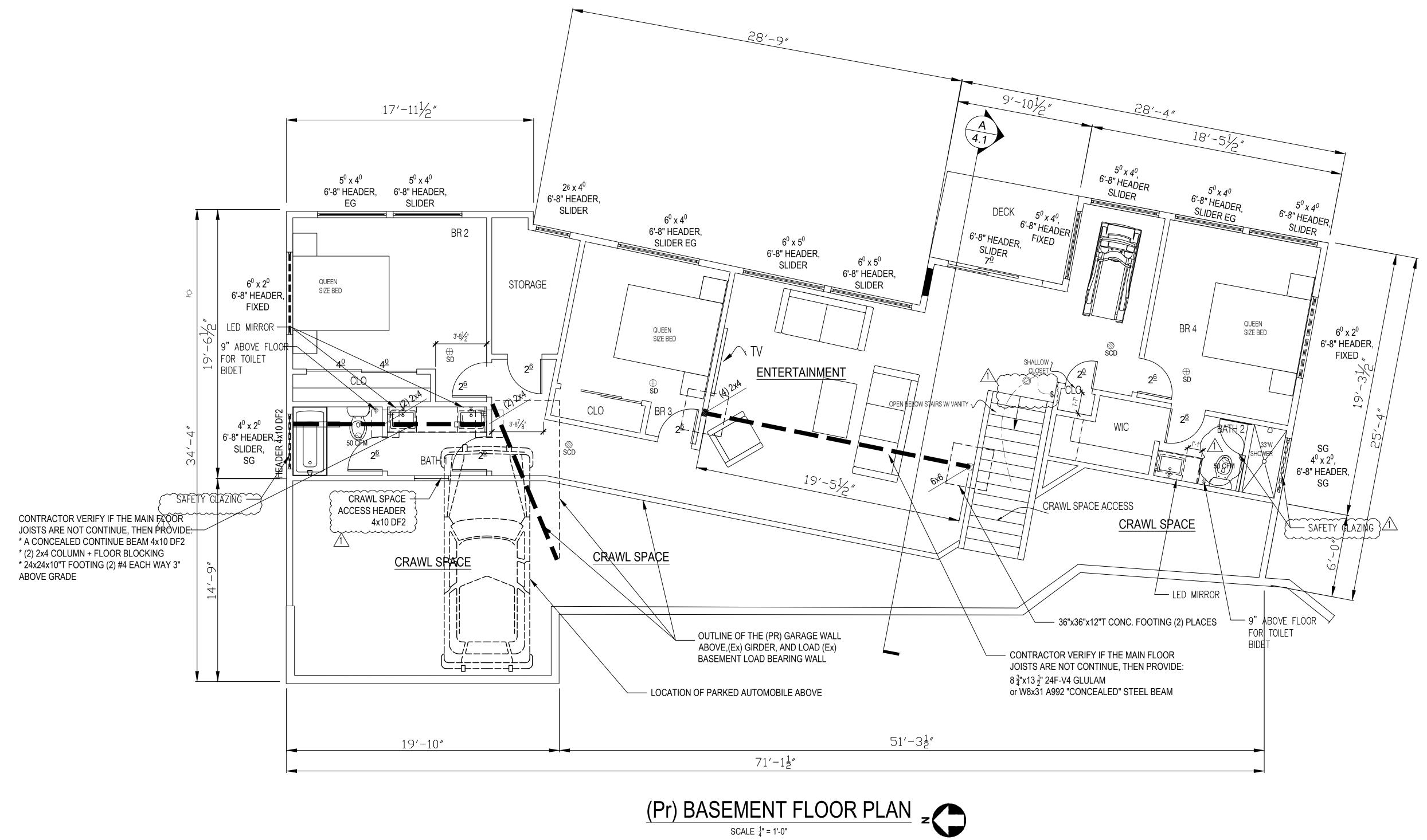
24x36"



Loo & Wai's Remodel	DATE 01-20
4124 94th PI SE	2022
Mercer Island 98040	SHEET
PROPOSED MAIN LEVEL PLAN VIEW	<b>2.3</b>

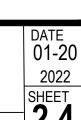
11-28-22 REV# 1







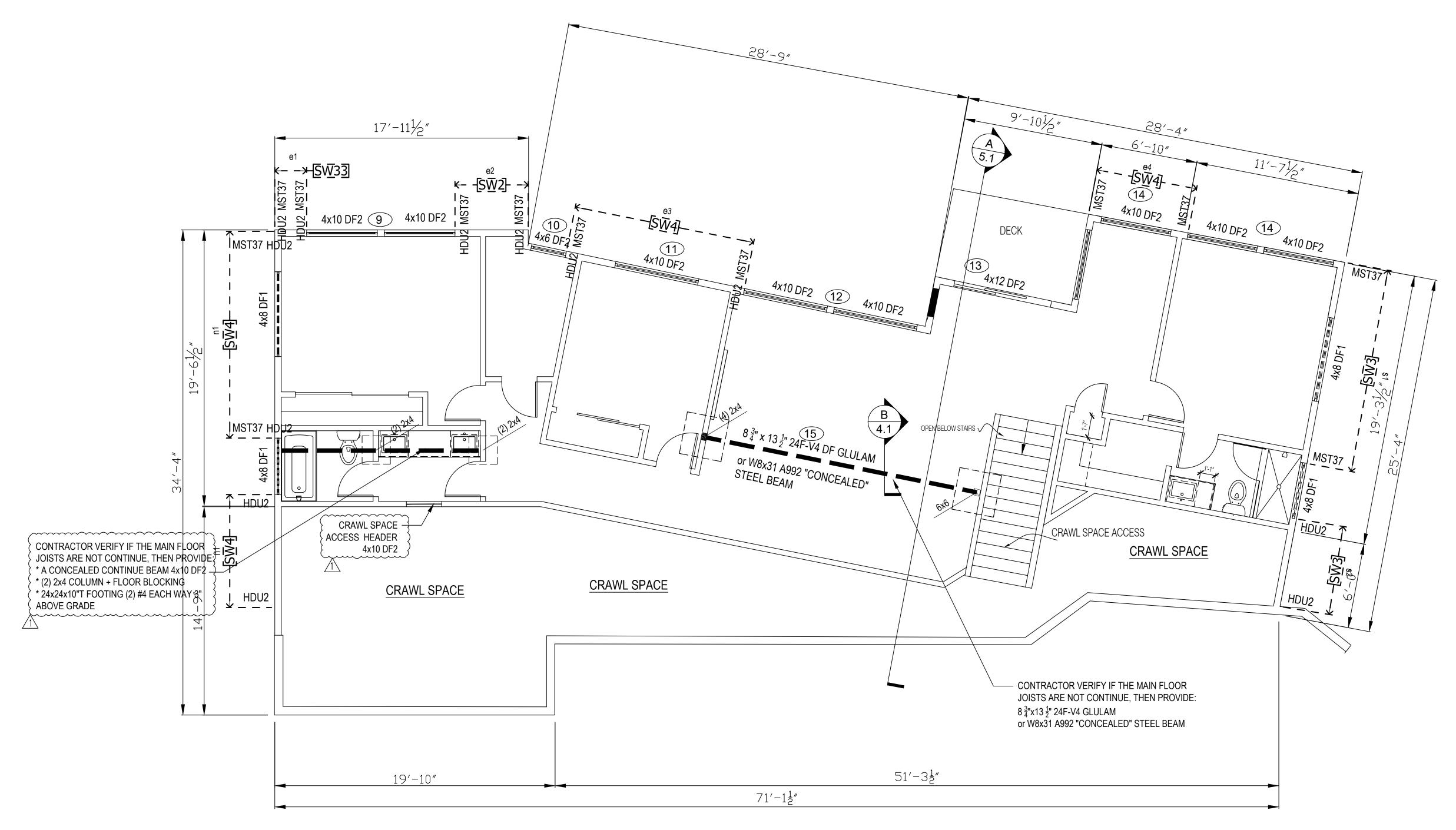
Loo & Wai's Remodel 4124 94th PI SE 4124 94th PI SE2022Mercer Island 98040SHEETPROPOSED BASEMENT PLAN VIEW24/36"



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11-28-22 REV# /



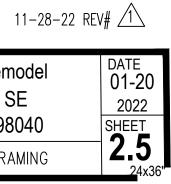


## (Pr) MAIN FLOOR FRAMING

SCALE <sup>1</sup>/<sub>4</sub>" = 1'-0"

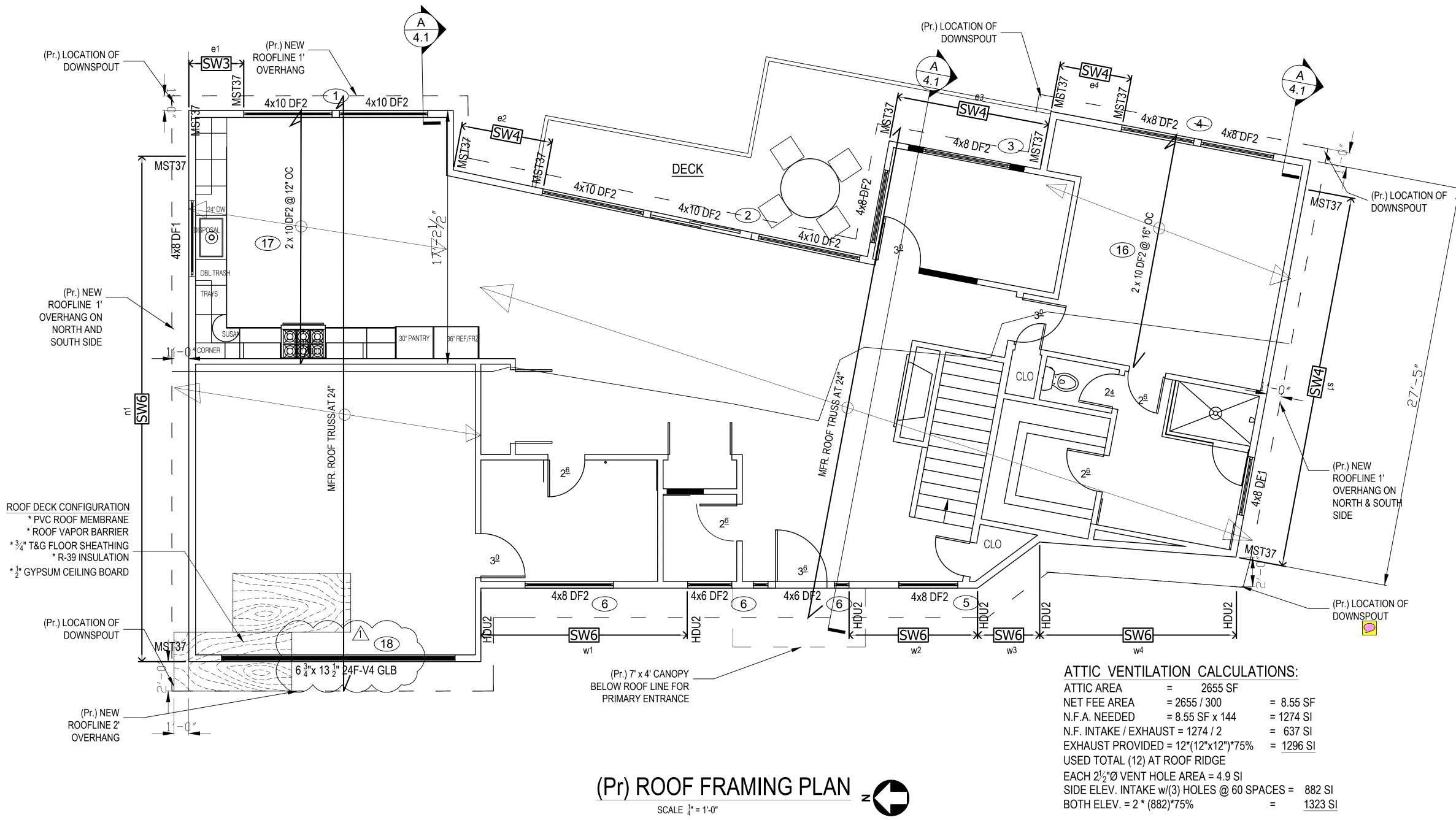


Loo & Wai's Remodel 4124 94th PI SE Mercer Island 98040 MAIN FLOOR FRAMING



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24x36"

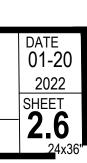


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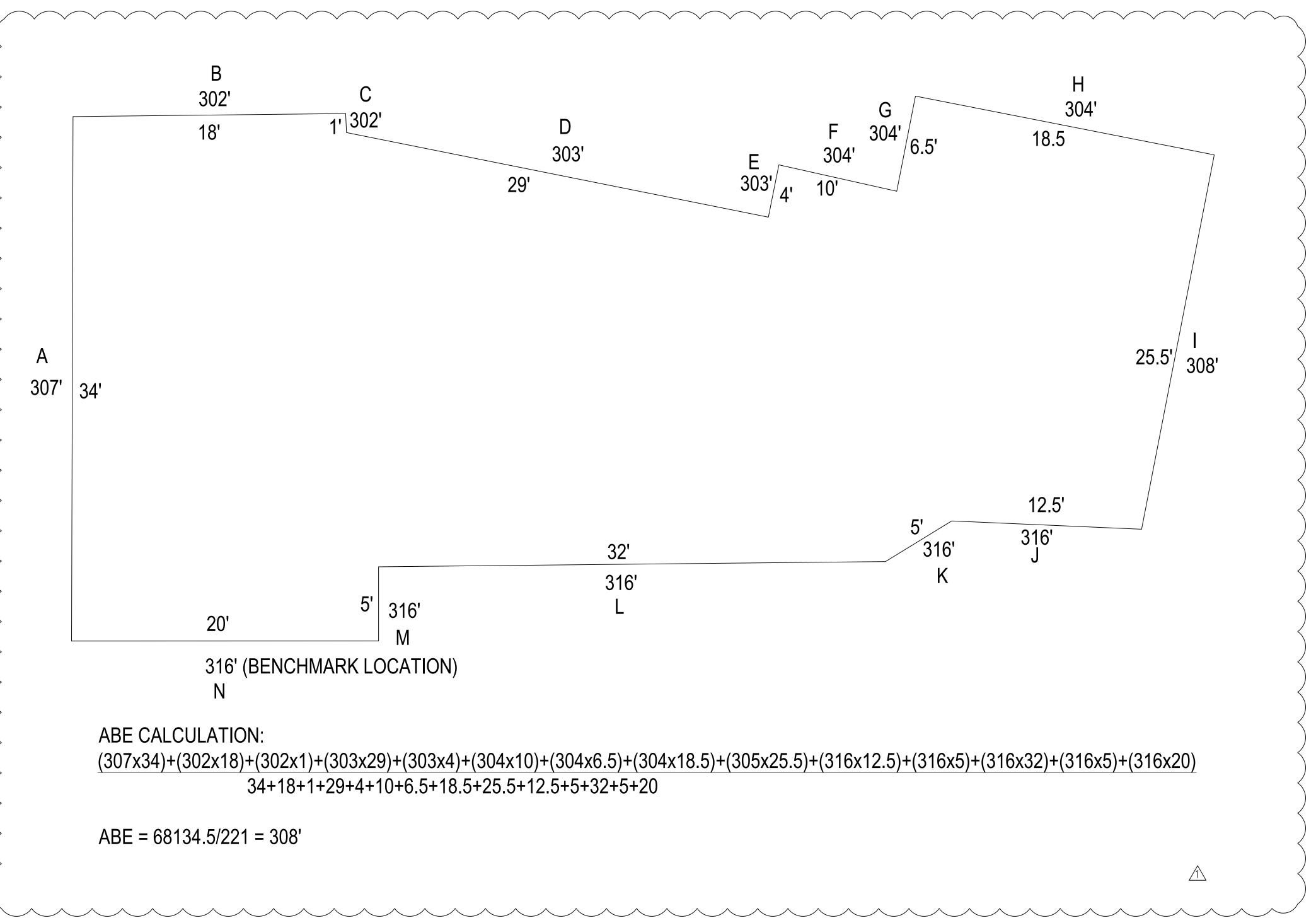


Loo & Wai's Remodel 4124 94th PI SE Mercer Island 98040 ROOF PLAN



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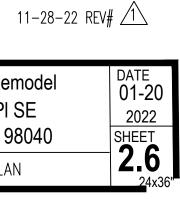
11–28–22 REV# 🔨

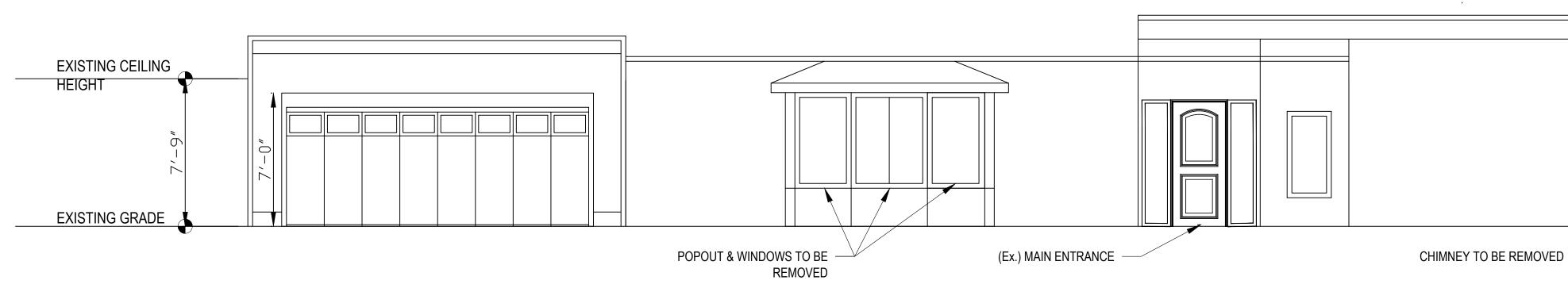


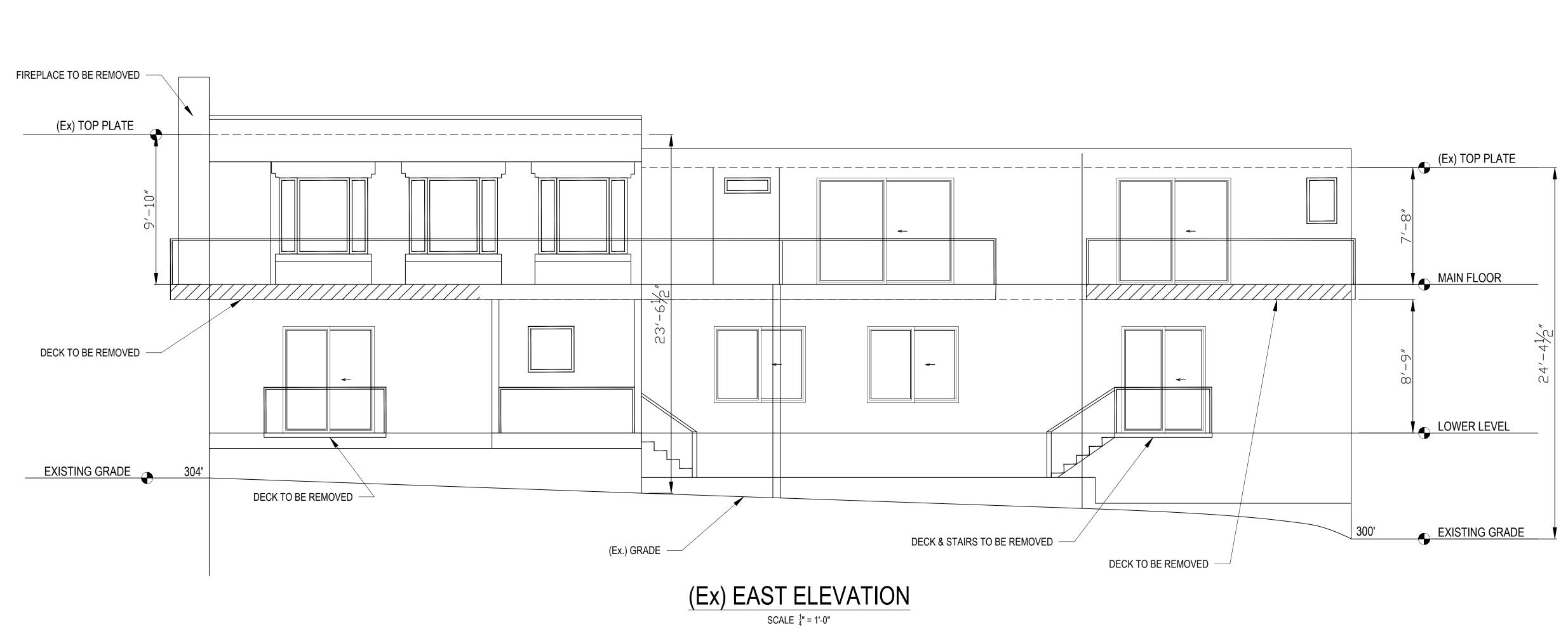
24x36"

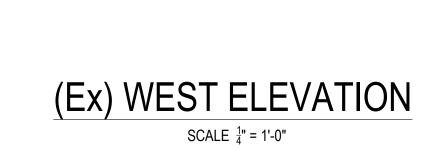


Loo & Wai's Remodel 4124 94th PI SE Mercer Island 98040 ROOF PLAN



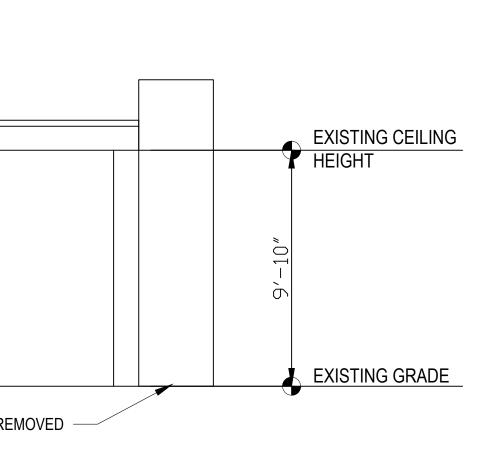


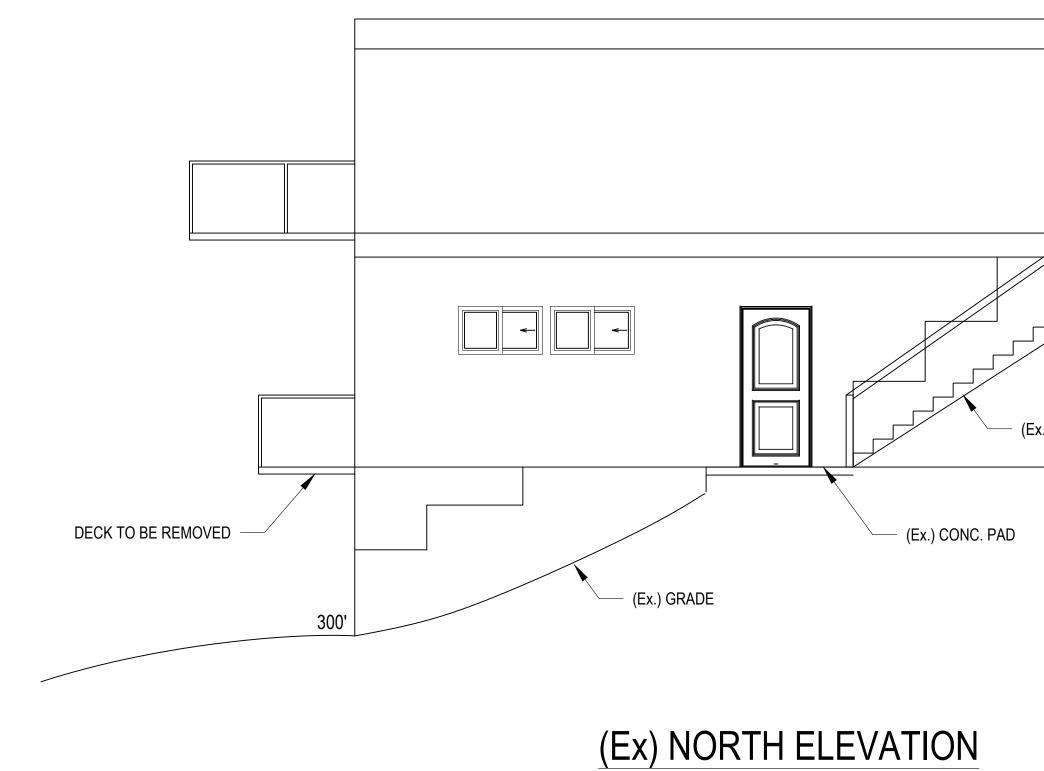






Loo & Wai's Remodel	DATE 01-20
4124 94th PI SE	2022
Mercer Island 98040	
(Ex) ELEVATION	
	<u> </u>



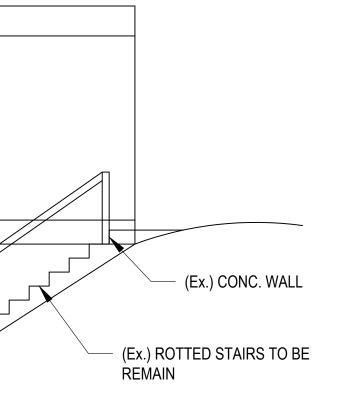


SCALE <sup>1</sup>/<sub>4</sub>" = 1'-0"

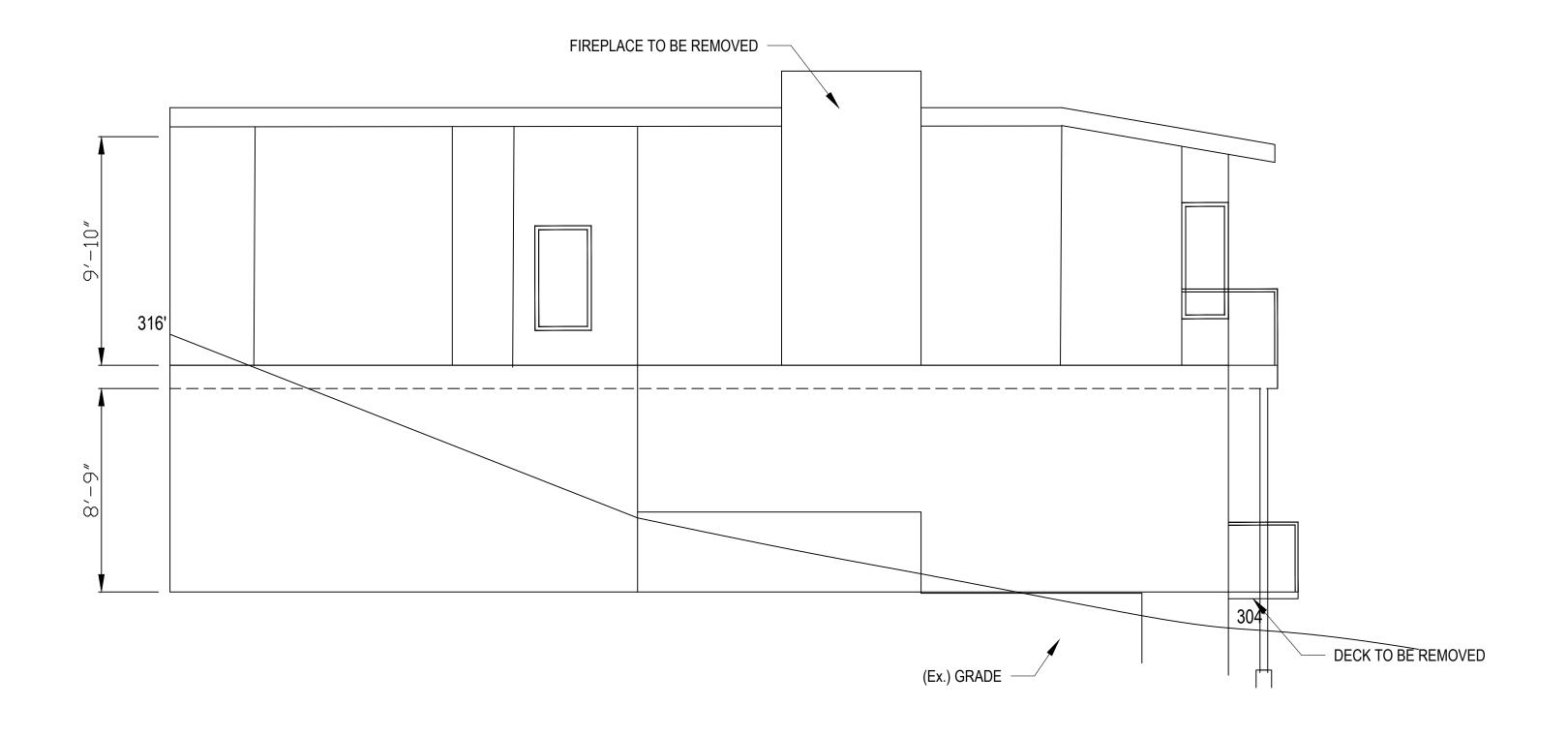
24x36"

24x36"

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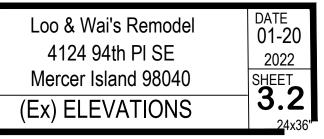


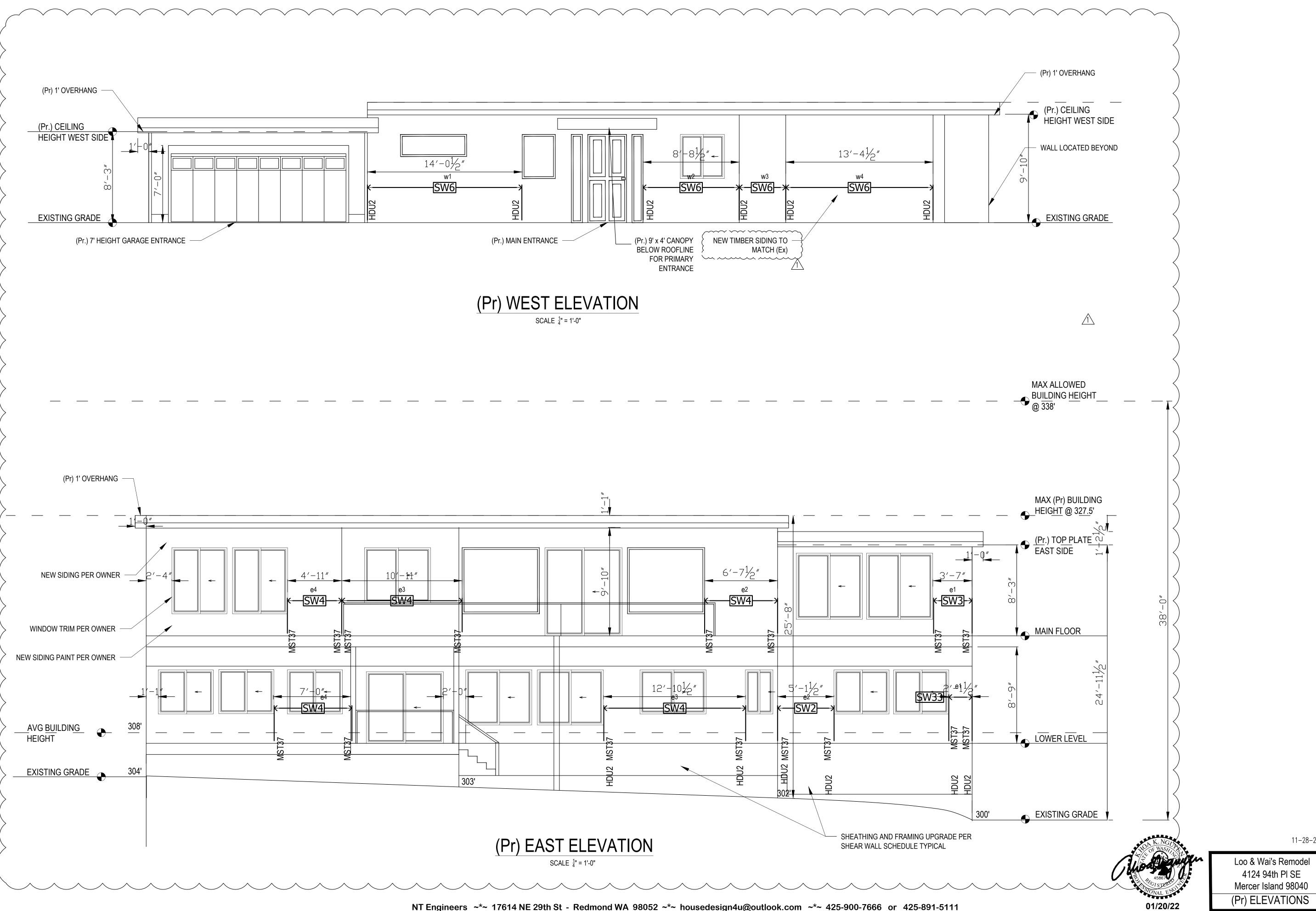




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07-15-22	REV#	<u>/1\</u>

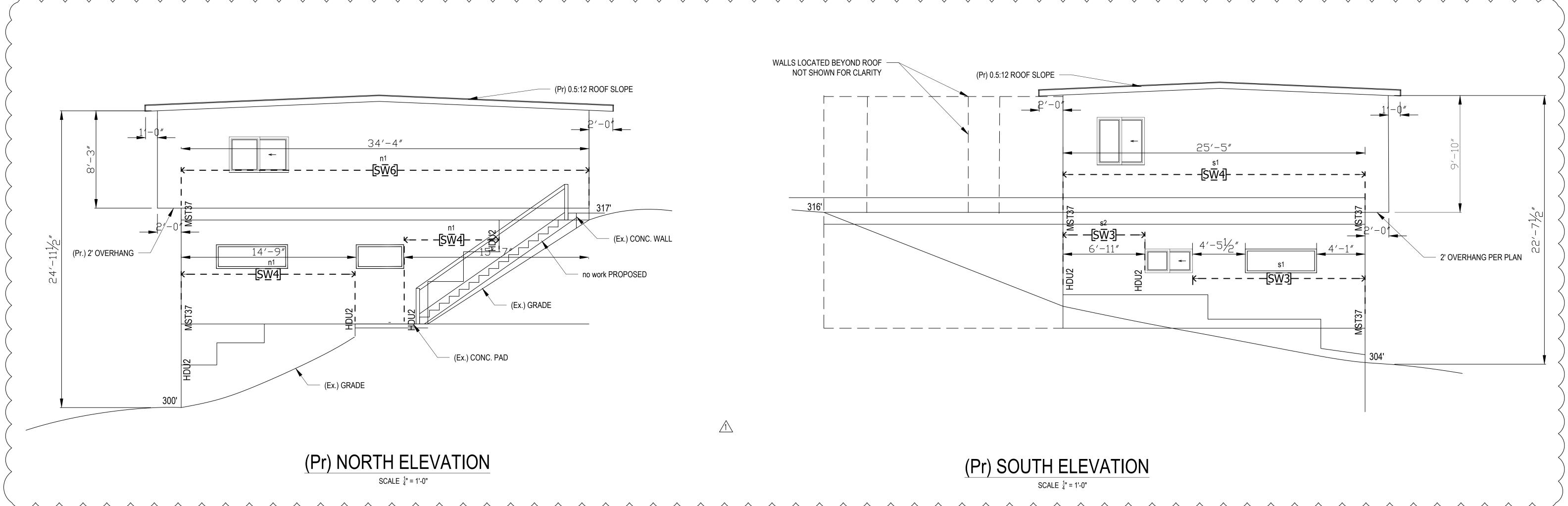
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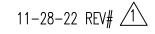


NT Engineers ~\*~ 17614 NE 29th St - Redmond WA 98052 ~\*~ housedesign4u@outlook.com ~\*~ 425-900-7666 or 425-891-5111





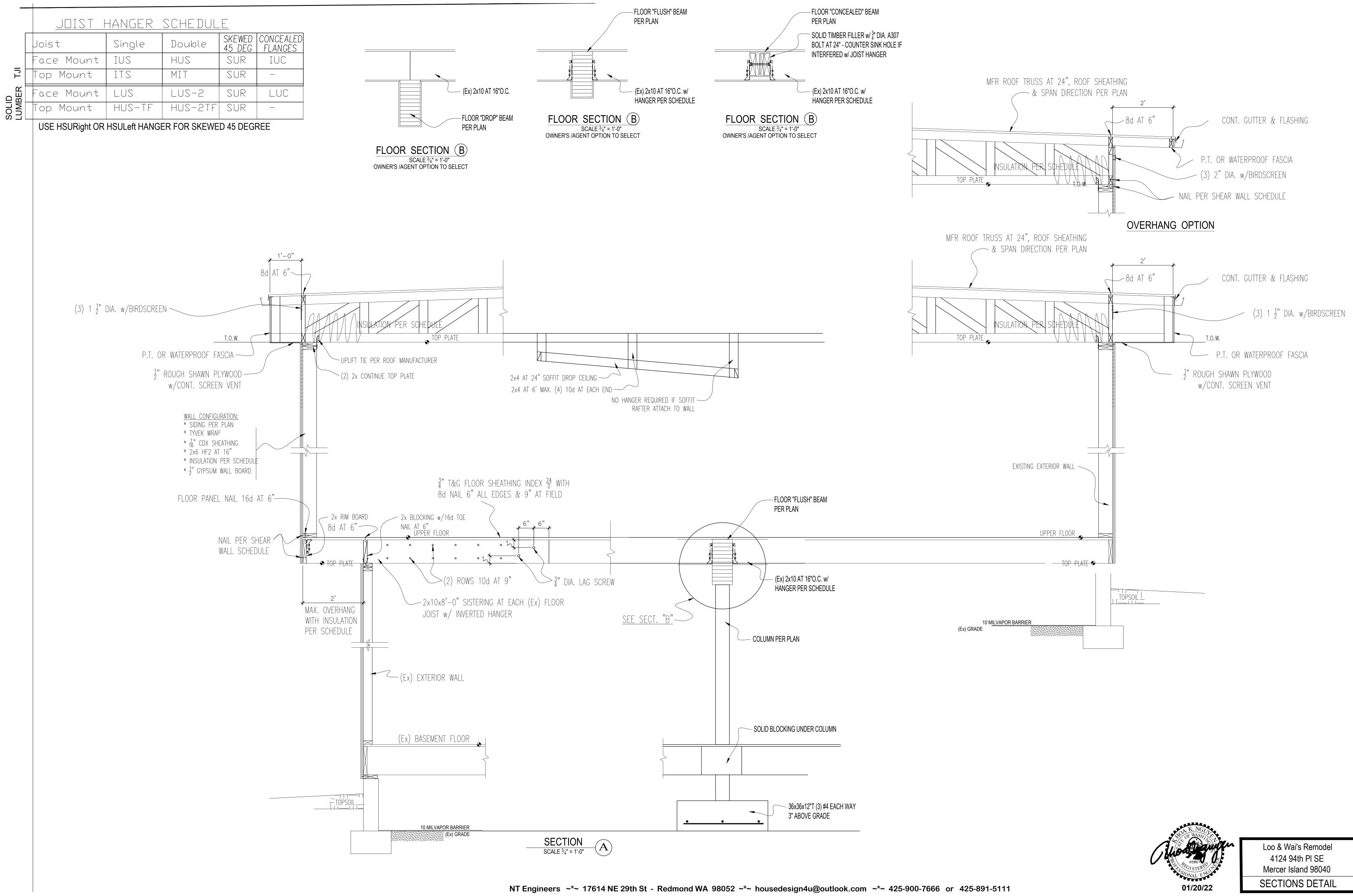
NT Engineers ~\*~ 17614 NE 29th St - Redmond WA 98052 ~\*~ housedesign4u@outlook.com ~\*~ 425-900-7666 or 425-891-5111



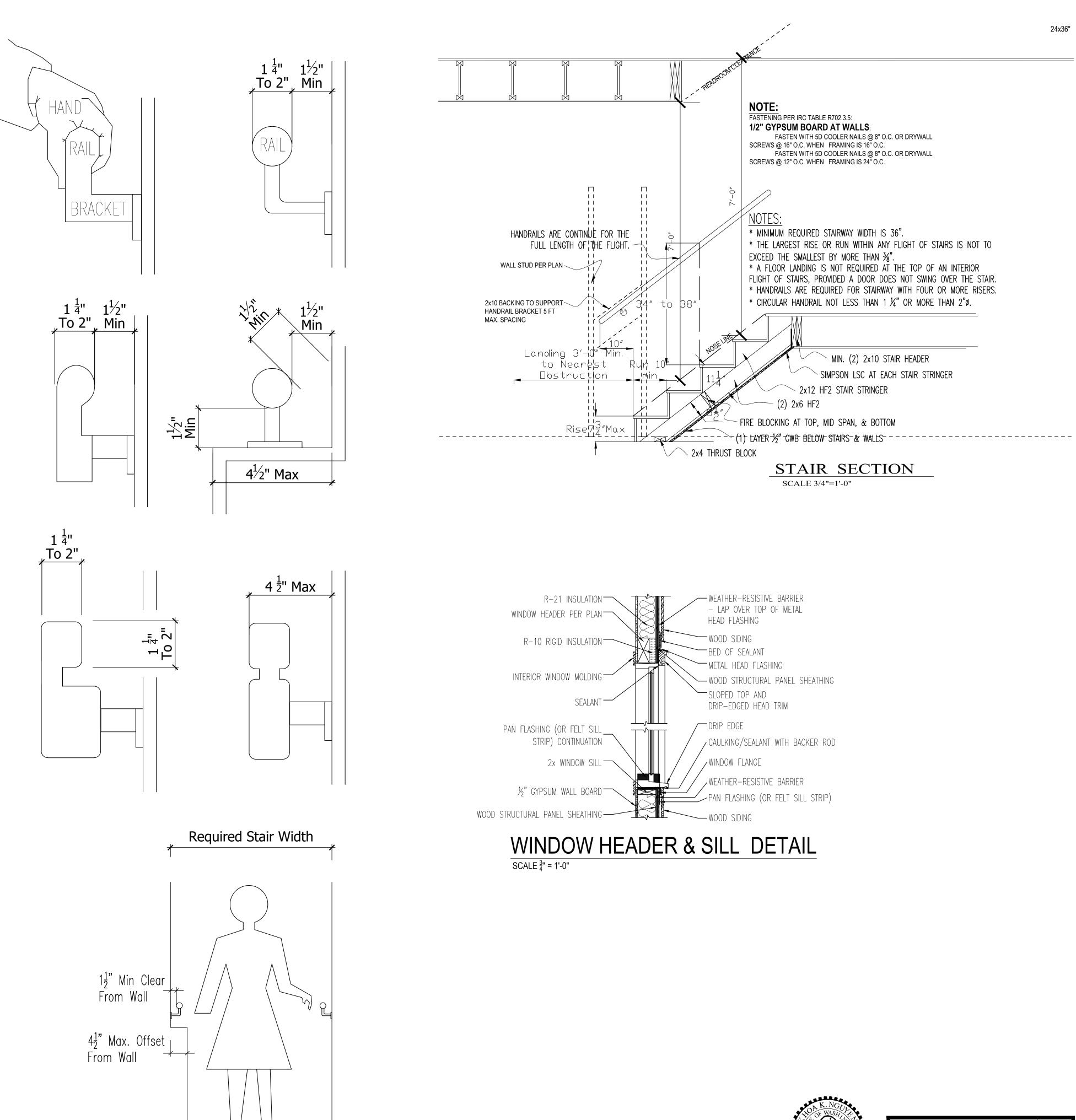
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DATE 01-20 2022 SHEET - **3.4** Loo & Wai's Remodel 4124 94th PI SE Mercer Island 98040 (Pr) ELEVATIONS

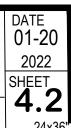


Loo & Wai's Remodel 4124 94th PI SE	DATE 01-20 2022
Mercer Island 98040	SHEET
SECTIONS DETAIL	<b>4.</b>



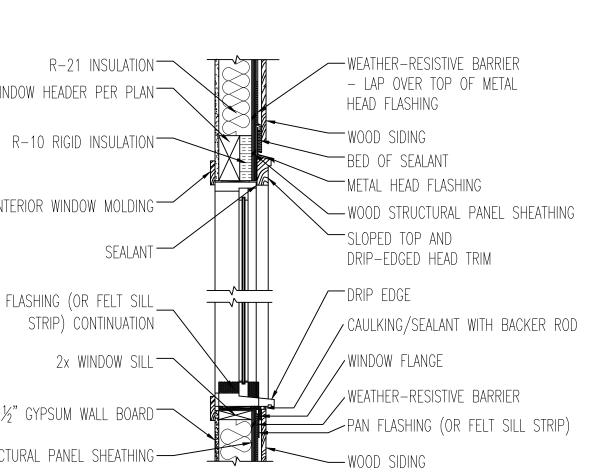


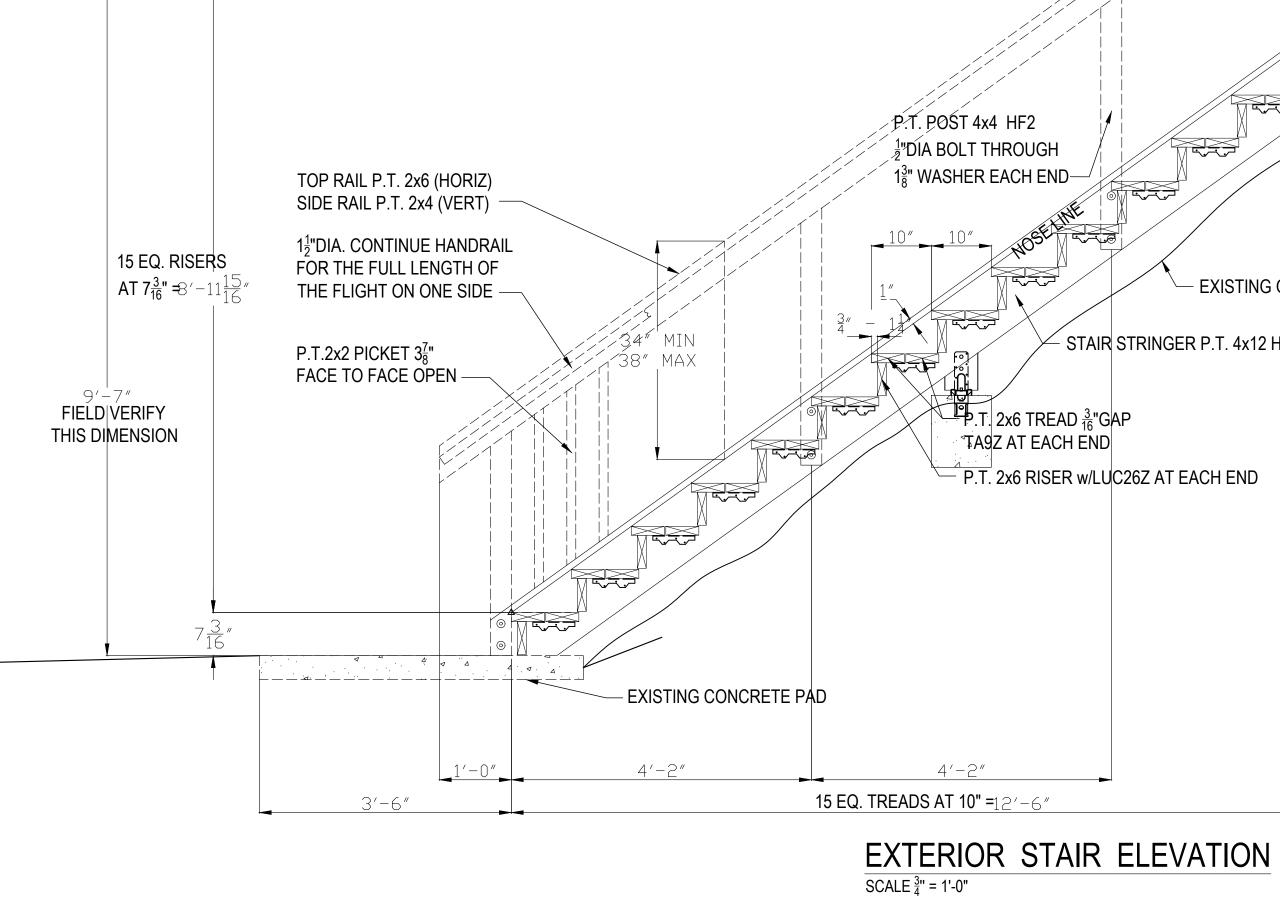
Loo & Wai's Remodel 4124 94th PI SE Mercer Island 98040 SECTION DETAILS

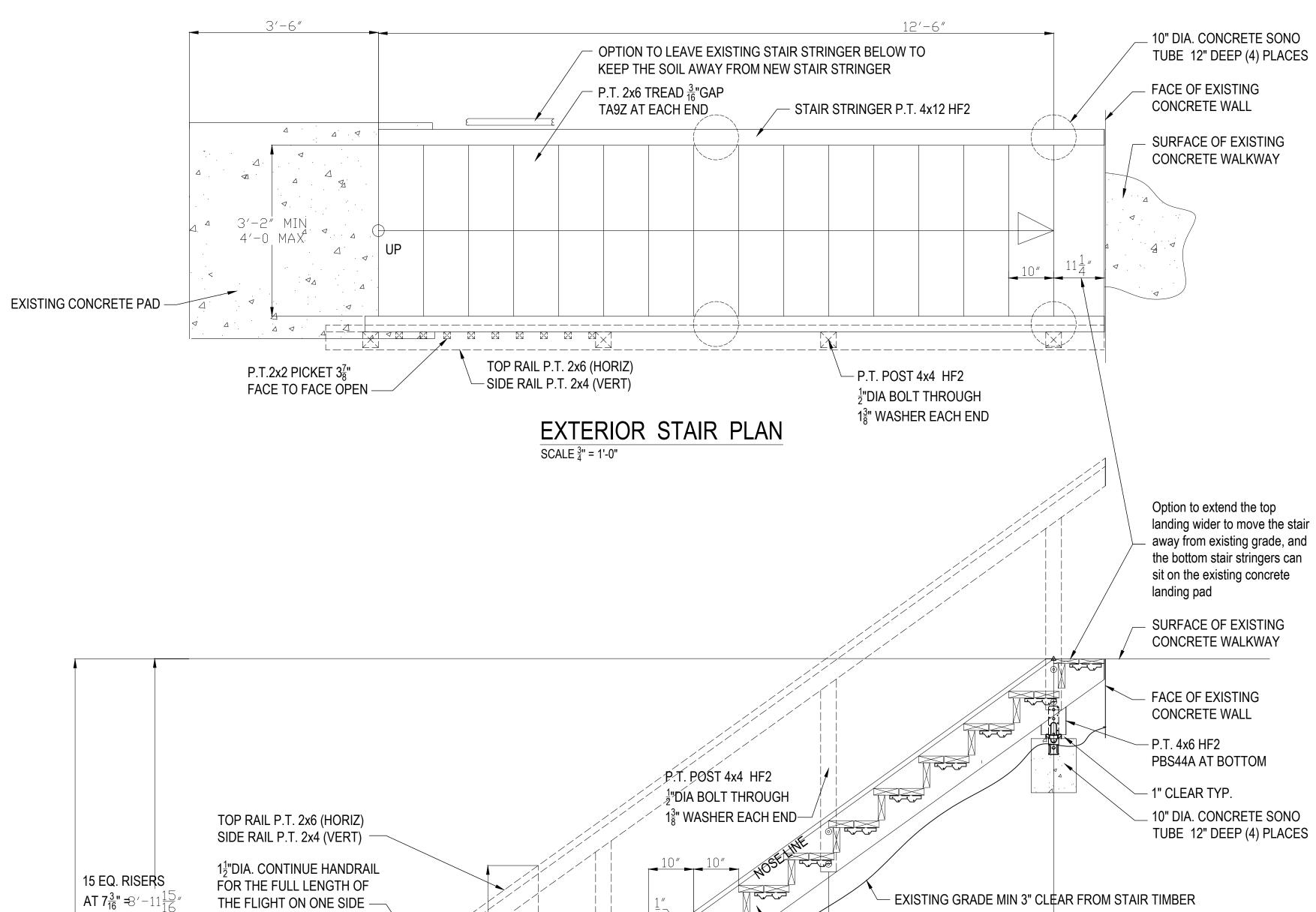


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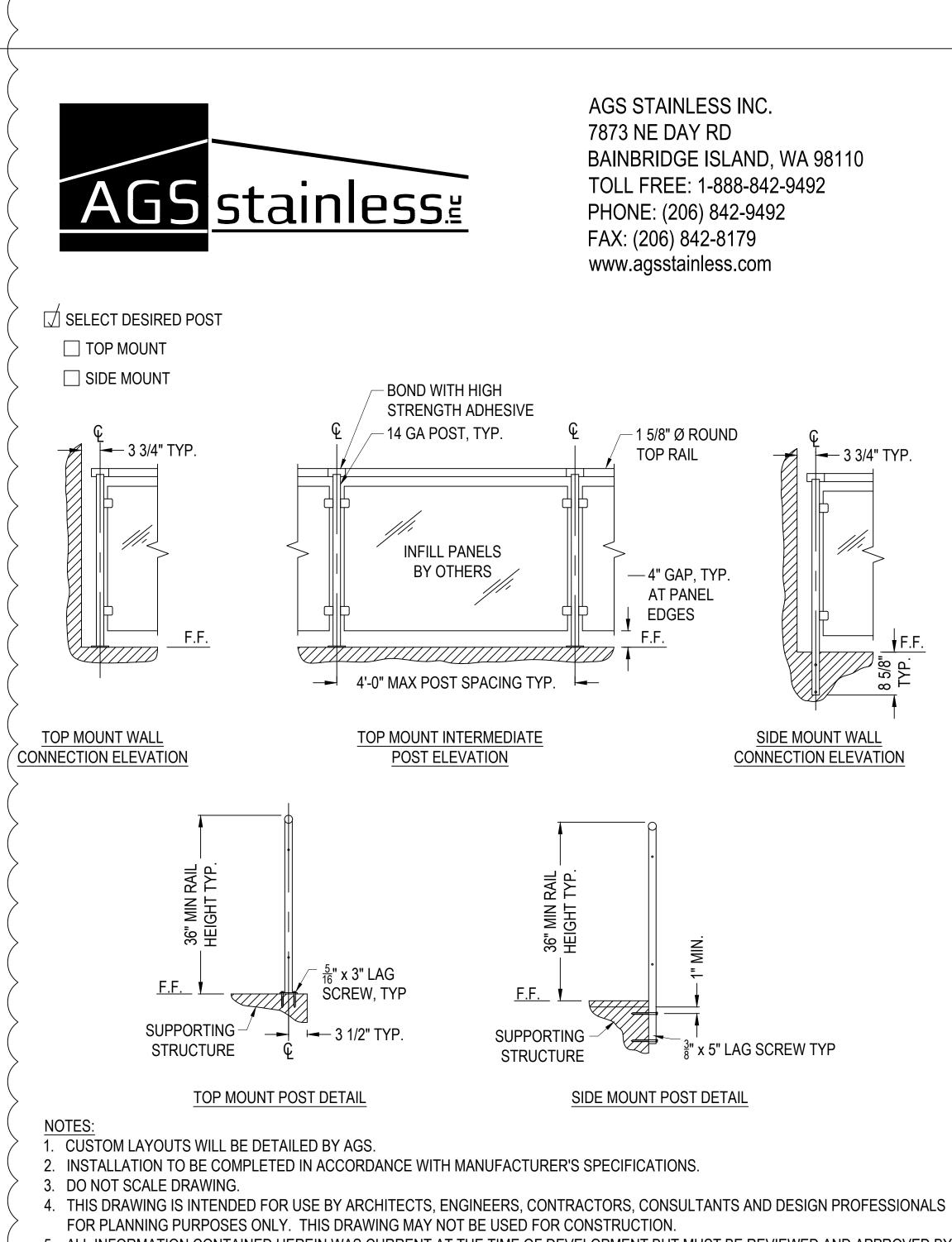




#### STAIR STRINGER P.T. 4x12 HF2



Loo & Wai's Remodel	DATE 01-20
4124 94th PI SE	2022
Mercer Island 98040	SHEET
<b>(TERIOR STAIR DETAILS</b>	4.3
	I 74 Y.



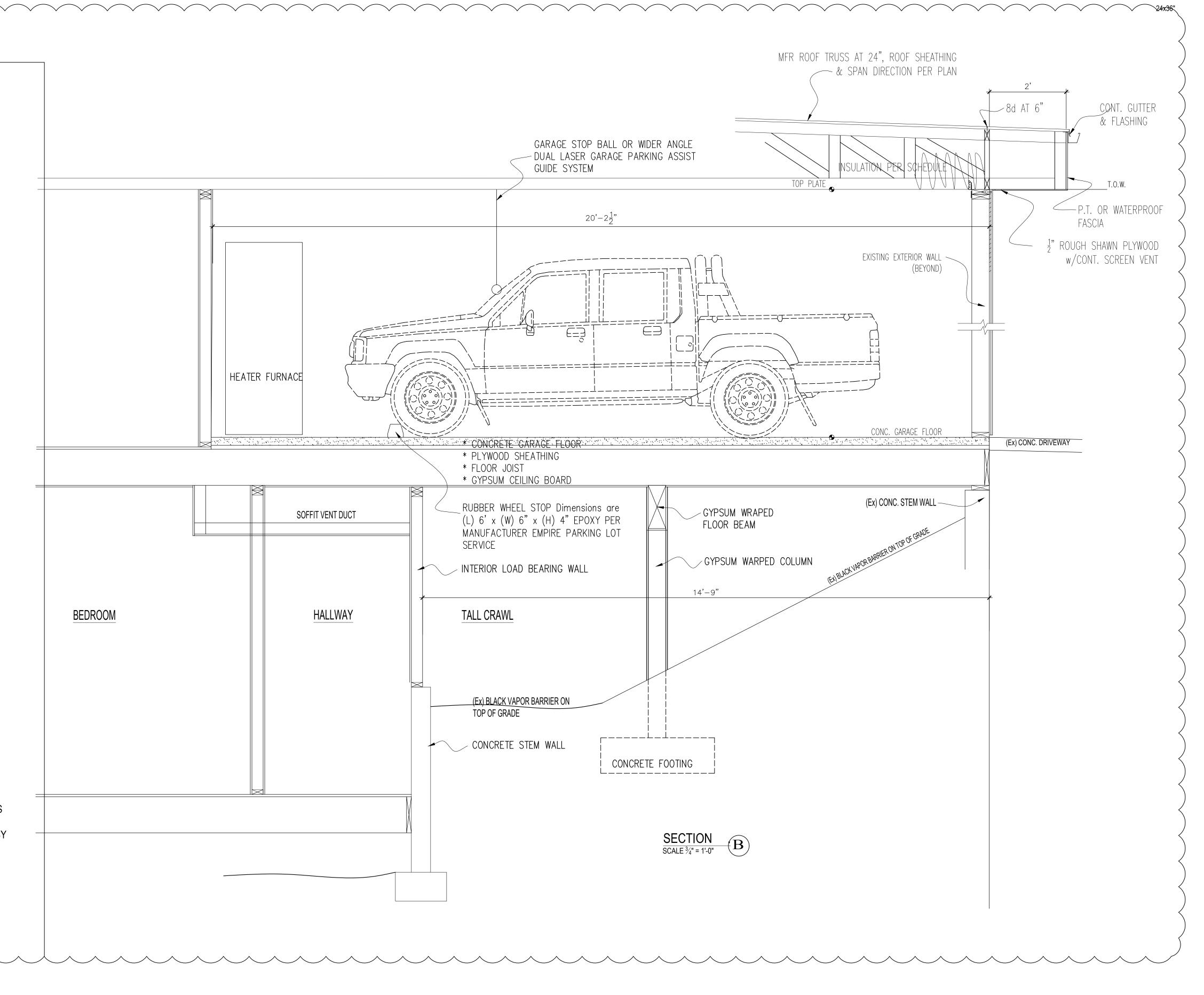
- 5. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
- 6. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBERMercer 11-29.

## GRASS RAIL SYSTEMS

GLASS RAILING SYSTEM WITH ROUND TOP, 36 INCH

24x36"

24x36"



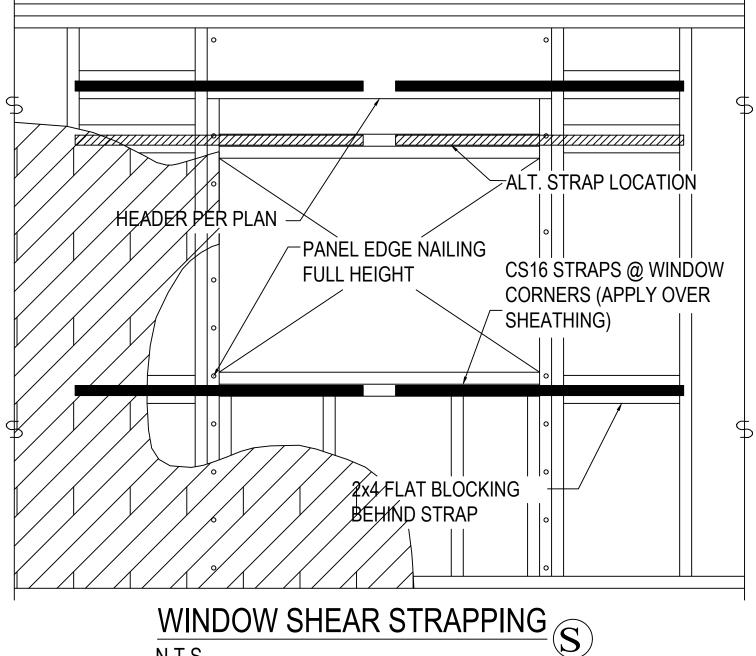


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Loo & Wai's Rem	odel	DATE 01-20 2022
4124 94th PI S	Έ	2022

Mercer Island 98040

SECTION DETAILS





-HOLDOWN

-5° SLOPE MAX.  $\binom{12L}{1}$ 

- MIN. CONTINUE (2) VERT. STUD

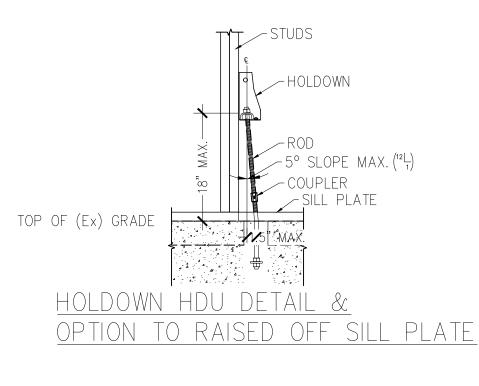
(Ex) SILL PLATE

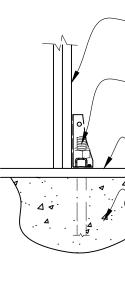
/ FOOTING PER PLAN

5 DIA THREADED ROD 9" EMBEDMENT

-COUPLER

N.T.S.

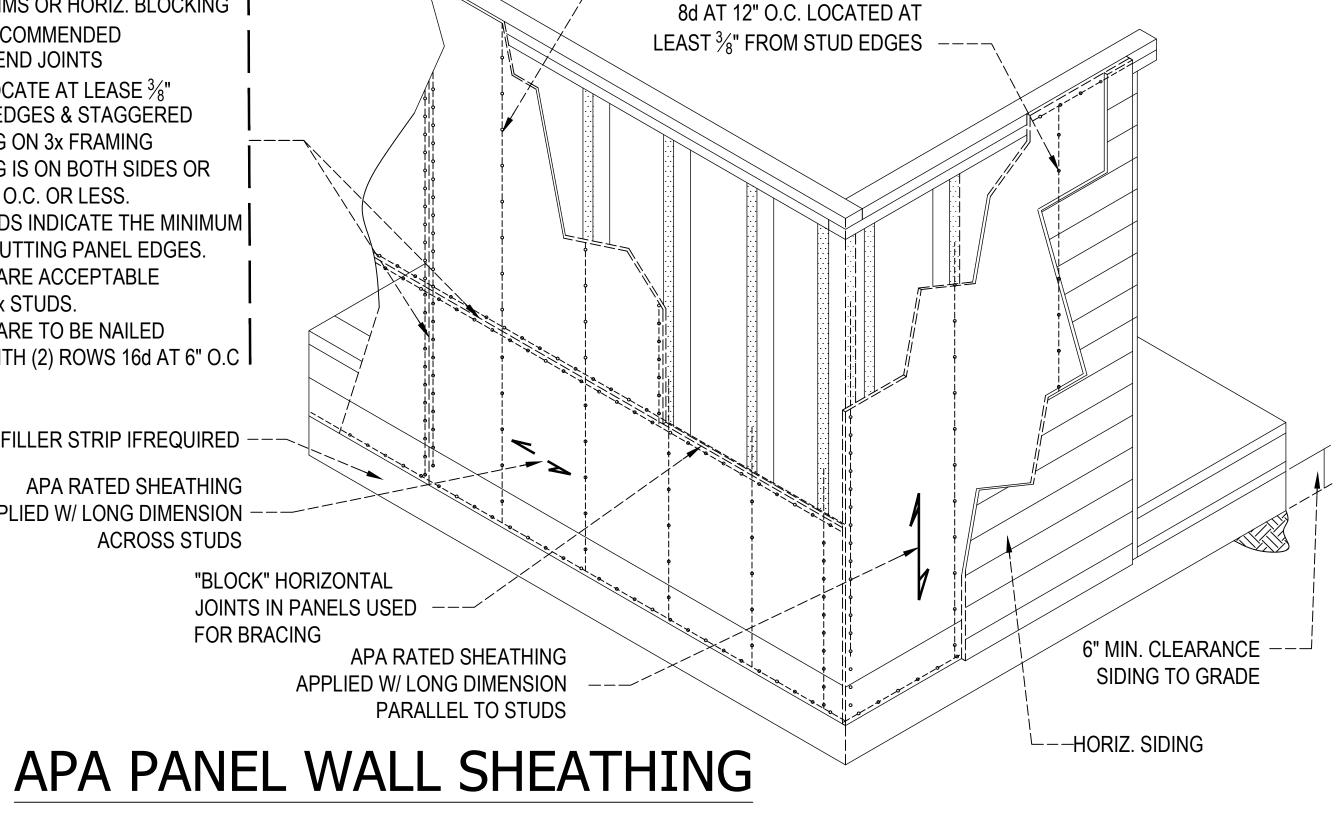




HUD TIE CONNECTION DETAIL

J

# N.T.S.



INTERMEDIATE SHEATHING

"BLOCK" HORIZONTAL JOINTS IN PANELS USED FOR BRACING

APA RATED SHEATHING APPLIED W/ LONG DIMENSION ACROSS STUDS

FILLER STRIP IFREQUIRED --

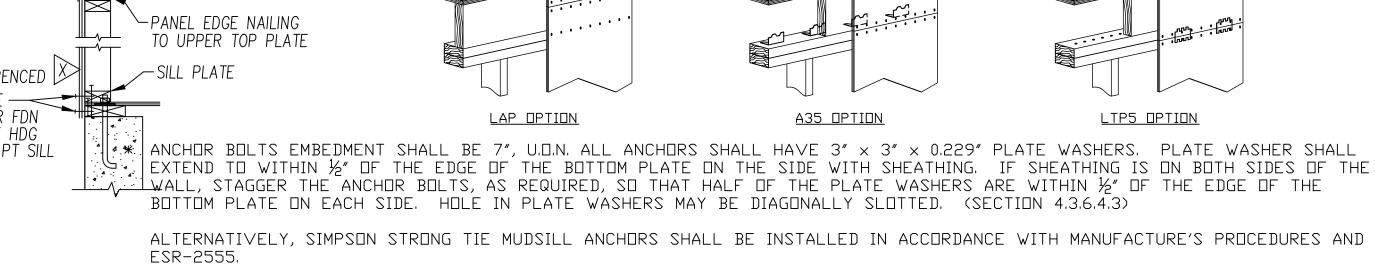
- (2) 2X STUDS ARE ACCEPTABLE ALTERNATE 3x STUDS. - (2) 2X STUDS ARE TO BE NAILED TOGETHER WITH (2) ROWS 16d AT 6" O.C

\* ALL PANEL EDGES TO OCCUR OVER STUDS, PLATES, RIMS OR HORIZ. BLOCKING \* <sup>1</sup>/<sub>8</sub>" SPACING IS RECOMMENDED AT ALL EDGE AND END JOINTS \* NAIL SHALL BE LOCATE AT LEASE <sup>3</sup>/<sub>8</sub>" FROM THE PANEL EDGES & STAGGERED \* STAGGER NAILING ON 3x FRAMING WHERE SHEATHING IS ON BOTH SIDES OR NAIL SPACING IS 3" O.C. OR LESS. \* PANEL EDGE STUDS INDICATE THE MINIMUM STUD WIDTH AT ABUTTING PANEL EDGES.

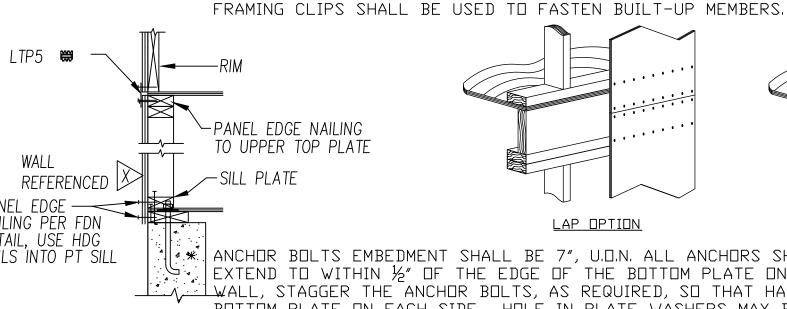
SHEAR WALL SCHEDULE						RIM CONNECTION		
WALL	SHEATHING	PANEL EDGE NAILING (COMMON OR GALV BOX NAILS)	PANEL EDGE STUDS	MASA OR MASAP or A. BOLT>	ANCHOR BOLTS 5/8"ø EMBED 7"	AT TOP PLATE	AT ROOF EAVE TOP PLATE	AT SILL PLATE (COMMON NAIL .162ø x 3.5")
SW6	7/16" APA PLY ONE SIDE	8d AT 6" O.C.	2x	40" O.C. IN 2x PLATE	48" O.C. IN 2x PLATE	LTP5 AT 24" O.C.	RBC AT 16" O.C.	16d AT 6" O.C.
SW4	7/16" APA PLY ONE SIDE	8d AT 4" O.C.	2x	28" O.C. IN 2x PLATE	32" O.C. IN 2x PLATE	LTP5 AT 16" O.C.	RBC AT 12" O.C.	16d AT 4" O.C.
SW3	7/16" APA PLY ONE SIDE	8d AT 3" O.C.	Зx	12" O.C. IN 2x PLATE	16" O.C. IN 2x PLATE	LTP5 AT 16" O.C.	RBC AT 8" O.C.	16d AT 3" O.C.
SW2	7/16" APA PLY ONE SIDE	8d AT 2" O.C.	Зx	7" O.C. IN 2x PLATE	12" O.C. IN 2x PLATE	LTP5 AT 12" O.C.	RBC AT 8" O.C.	16d AT 2" O.C.
SW44	7/16" APA PLY TWO SIDES	8d AT 4" O.C. EA SIDE	Зx	16" O.C. IN 3x PLATE	24" O.C. IN 3x PLATE	LTP5 AT 8" O.C.	N.A. AT ROOF EAVE	(2) ROWS 16d AT 4" O.C.
SW33	7/16" APA PLY TWO SIDES	8d AT 3" O.C. EA SIDE	Зx	12" O.C. IN 3x PLATE	16" O.C. IN 3x PLATE	LTP5 AT 8" O.C.	N.A. AT ROOF EAVE	(2) ROWS 16d AT 3" O.C.
SW22	7/16" APA PLY TWO SIDES	8d AT 2" O.C. EA SIDE	Зx	12" O.C. IN 3x PLATE	16" O.C. IN 3x PLATE	LTP5 AT 6" O.C.	N.A. AT ROOF EAVE	(2) ROWS 16d AT 2" O.C.
		•		AT NEW SHE	AR WALL ONLY			•

\* AT ADJOINING PANEL EDGES WHERE SHEATHING CANNOT LAP ON SINGLE MEMBER AND FACE NAILING CANNOT BE ACCOMPLISHED,

\_\_\_\_\_



MEMBERS WITH NO SPACERS,



REFERENCED PANEL EDGE NAILING PER FDN DETAIL, USE HDG NAILS INTO PT SILL



Loo & Wai's Remodel	DATE 01-20
4124 94th PI SE	2022
Mercer Island 98040	SHEET
HEAR WALL SCHEDULE	<b>5.1</b>

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~	A35 OPTION	LTP5 OPTION

\* FACE NAILING APPLIES TO CONDITIONS WHERE FRAMING NAILS CAN BE STRAIGHT DRIVEN THRU FIRST MEMBER AND PENETRATE MAIN MEMBER MINIMUM OF 1½". FRAMING NAILS SHALL BE 0.131"Ø × 3¼". 0.131"Ø×3" NAILS MAY BE USED WHEN STITCHING TOGETHER (2)2×

Island 98040         Redmond 98052           Iswinging Door (24 sq. fl. max.) of Glazed Fenestration (15 sq. fl. max.)         Image: Component fl. fl. fl. max.)         Image: Component fl.	Vai's Remoodel			a Nguyer					
Ref.         Ufactor         OL         Feel         ****         Feel         ****         Area           0 </th <th>Ith PI SE Island 98040</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Ith PI SE Island 98040								
Ref.         Ufactor         Cl.         Feet         Non-         Area           Jubyliging Door (24 sq. fl. max.)         Imax.         Im					<u> </u>				
1 SWnging Door (24 sg. 14 max.)  pl Glazed Fenestration (15 sg. 11 max.)  al Fenestration (16 sg. 11 max.)  al Fenestration (16 sg. 11 max.)  component  Component  Description  Ref. Ufactor  Component  Compone		Pof	11 factor	~					A.r
pt Glazed Fenestration (15 sq. ft. max.)  al Fenestration (Windows and doors)  Component  Description Ref. Ufactor Ci. Feel <sup>(mh)</sup> Feel <sup>(mh)</sup> Powder  0.24  1 3 0 6 1  20  10  20  21  2 1 2 8  2  2 1 2 8  2  2 1 2 8  2  2 1 2 8  2  2 1 2 8  2  2 1 2 8  2  2 1 2 8  2  2 1 2 8  2  2 1 2 8  2  2 1 2 8  2  2 1 2 8  2  2 1 2 8  2  2 1 2 8  2  2 1 2 8  2  2 1 2 8  2  2 1 2 8  2  3 0 6  3 0  3 0  3 0  3 0  3 0  3 0  3	pt Swinging Door (24 sq. ft. max.)	Tter.	0-laciol	Ga.	reel		reel		
Component         Wilth         Height Feet         Kree           Laundry         0.24         1         3         4         120           Powder         0.24         1         3         4         0           Entry Windows         0.24         1         3         6         6           Entry Windows         0.24         1         4         4         0           Master Bah         0.24         1         4         4         0           Master Bedroom         0.24         1         5         6         6         0           Office Window         0.24         1         5         6         6         0           Living Room Window         0.24         1         7         8         0         1           Living Room Silder         0.24         1         5         6         6         0           Bath 1         0.24         1         6         4         0         2         0           Bedroom 2         0.24         1         6         4         0         2         0           Bath 1         0.24         1         6         5         0         0	npt Glazed Fenestration (15 sq. fl. max.)								
Component         Wilth         Height Feet         Kree           Laundry         0.24         1         3         4         120           Powder         0.24         1         3         4         0           Entry Windows         0.24         1         3         6         6           Entry Windows         0.24         1         4         4         0           Master Bah         0.24         1         4         4         0           Master Bedroom         0.24         1         5         6         6         0           Office Window         0.24         1         5         6         6         0           Living Room Window         0.24         1         7         8         0         1           Living Room Silder         0.24         1         5         6         6         0           Bath 1         0.24         1         6         4         0         2         0           Bedroom 2         0.24         1         6         4         0         2         0           Bath 1         0.24         1         6         5         0         0	al Fenertzation (Mindoum and doom)								
Description         Ref.         Ufactor         O.         Feel         Interpretation         Feel         Interpretation         Provider           Laundry         0.24         1         8         2         1         1         8         2         1         1         8         1 <t< td=""><td></td><td></td><td></td><td></td><td>Widt</td><td>h</td><td>Heia</td><td>ht</td><td></td></t<>					Widt	h	Heia	ht	
Posséer         0.24         1         3         0         4         9           Entry Windows         0.24         1         4         0         4         0           Top of Stair Window         0.24         1         4         0         4         0           Master Bath         0.24         1         4         0         4         0           Master Bath         0.24         1         6         6         0         600           Office Window         0.24         1         5         0         6         0           Office Silder         0.24         1         7         0         8         0           Living Room Window         0.24         1         7         0         8         0           Living Room Window         0.24         1         6         4         0         0           Bath 1         0.24         1         6         4         0         0         0           Bedroom 2         0.24         1         6         0         4         0         0           Bedroom 3         0.24         1         6         0         2         0         0		Ref.	U-factor	Qt.	Feet				Area
Forma         0.24         1         0         0         1         0         0         1         1         0         0         1<				1	-			0	
Entry Door         0.24         1         3         6         8         7           Master Bath         0.24         1         4         0         4         0           Master Bedroom         0.24         2         5         0         6         0           Office Vindow         0.24         1         5         0         6         0           Office Vindow         0.24         2         7         0         8         0           Uving Room Vindow         0.24         2         7         0         8         0           Living Room Sider         0.24         1         5         0         6         0           Ktchen         0.24         1         5         0         6         0         72.0           Bedroom 2         0.24         1         6         0         2         0         10         0         10.0           Bedroom 3         0.24         1         6         0         4         0         10.0           Bedroom 4         0.24         1         6         0         4         0         10.0           Bedroom 4         0.24         1         6			and a second	1	3				
Top of Star Window       0.24       1       4       9       4       9         Master Batn       0.24       1       4       9       4       9       16.0         Office Window       0.24       1       6       6       9       6       9       66.0       60.0         Office Window       0.24       1       6       6       6       9       130.0       112.0       16.0       60.0       100.0				1	3		100	8	
Master Bath         0.24         1         4         9         4         0           Master Bedroom         0.24         2         5         6         0         0.00		2 2	and the second se	1	1.1	<b>A</b>		0	LINE CONTRACTOR OF CONTRACTOR
Master Bedroom         0.24         2         5         0         6         0           Office Window         0.24         1         6         0         6         0           Uking Room Window         0.24         1         7         0         8         0           Living Room Sider         0.24         1         7         0         8         0           Kitchen         0.24         1         5         0         4         0           Bedroom 2         0.24         1         6         0         4         0           Bedroom 2         0.24         1         6         0         4         0           Bedroom 2         0.24         1         6         0         4         0           Bedroom 3         0.24         1         7         0         8         0           Ertletainment Silder         0.24         1         6         0         4         0           Bedroom 4         0.24         2         5         0         4         0         10         0           Bedroom 4         0.24         1         6         2         0         4         0				1	1000	0	14-2	0	
Office Silder         0.24         1         0         0         380           Living Room Window         0.24         2         7         8         0         120           Living Room Silder         0.24         2         6         0         7         0         8         0           Kathen         0.24         2         6         0         1         6         4         0         2         6         0         120           Bath 1         0.24         1         6         4         0         2         0         8         0         120         8         0         100         8         0         100         8         0         100 <t< td=""><td></td><td></td><td></td><td>2</td><td></td><td></td><td></td><td>0</td><td></td></t<>				2				0	
Office Sublet       0.24       2       0       0       1       0       0       1	Office Window		0.24	1	6	0	6	0	36.0
Living Room Stider         0.24         1         7         8         0           Kitchen         0.24         1         5         0         4         7         2         0         7         8         0         7         0         0         7         0         0         7         0         0         7         0         0         7         0         0         7         0         0         7         0 <td< td=""><td>Office Slider</td><td></td><td>0.24</td><td>1</td><td>5</td><td>1000</td><td>6</td><td>0</td><td>30.0</td></td<>	Office Slider		0.24	1	5	1000	6	0	30.0
Living Kould state       0.24       1       7       0       72         Kitchen       0.24       2       6       0       0         Bath 1       0.24       1       6       0       12         Bedroom 2       0.24       1       6       0       12       0         Bedroom 2       0.24       1       6       0       4       0         Bedroom 3       0.24       1       6       4       0       400         Bedroom 3       0.24       1       6       4       0       400         Entertainment Sider       0.24       2       6       6       6       0       600         Entertainment Sider       0.24       2       6       4       0       400         Bedroom 4       0.24       1       6       2       0       800         Bedroom 4       0.24       1       6       2       0       800         Bedroom 4       0.24       1       6       0       000       000       000       000       000       000       000       000       000       000       000       000       000       000       000				2			-	52. 1.175 - 151 - 561 - 561 - 561	
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Bath 2       0.24       1       4       2       0.0         Image: Second S				1			10000		
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ead Glazing (Skylights) Component Uidth Height Description Ref. U-factor Otherwise Oth									782.0
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Component       Width       Height         Description       Ref.       U-factor       Qt.       Feet       Inch       Area         Image: Component       Image: Component <td< td=""><td>ead Glazing (Sk) (ights)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	ead Glazing (Sk) (ights)								
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24x36"

#### ENERGY CODE:

(R406) 2018 WASHINGTON STATE ENERGY CODE - RESIDENTIAL Item #4. Additions less than 500 SF: 1.5 credits

Energy Option #	1.1	О.	5 credits
Energy Option #	3.1	1.(	0 credits
Total Credits	5		5 credits

FLOOR AREA	# OF BEDROOM						
(SQ. FT)	0 - 1	0 - 1 2 - 3 4 - 5		6 - 7	> 7		
< 1500	30	45	60	75	90		
1501 - 3000	45	60	75	90	105		
3001 - 4500	60	75	90	105	120		
4501 - 6000	75	90	105	120	135		
6001 - 7500	90	105	120	135	150		
> 7501	105	120	135	150	165		

VENTILATION RATES IN TABLE ARE MINIUM OUTDOOR AIRFLOW RATES MEASURED IN CFM.

- WHOLE HOUSE VENTILATION SYSTEM IS REQUIRED AND SHALL CONFORM TO WAC 51-52-0403.8.6 WHOLE HOUSE VENTILATION WITH EXHAUST FAN SYSTEM

- FRESH AIR SHALL DRAWN IN THROUGH A MIN. OF ONE OPERABLE WINDOW IN EACH HABITABLE SPACE. THESE WINDOWS WILL HAVE SCREENS AND BE CONTROLLABLE AND SECURABLE.

- FOR ALL DWELLINGS UP TO 5000 SQ FT, 3.5 CREDIT ARE REQUIRED FROM TABLE 406.2 SEE "METHOD OF OBTAINING ENERSY CREDITS" ON SHEET 13.

- HEATING DUCT ARE NOT ALLOWED TO DISPLACE REQUIRED INSULATION WITH THE EXTERIOR WALLS, FLOOR, AND CEILING. - DUCTS SHALL BE LEAKED TESTED IN ACCORDANCE WITH RS-33, USING THE MAX. DUCT LEAKAED TESTED IN ACCORDANCE WITH RS-33, USING THE MAX. DUCT LEAKAGE RATE SPECIFIED IN SECTION R403.2.2 . - ENERGY CODE COMPLIANCE CHART WITH 3' OF ELECTRICAL PANEL.

- A MINIMUM OF 75% OF ALL LIGHTING MUST BE HIGH EFFICIENCY.

#### WHOLE HOUSE VENTILATION

EACH DWELLING UNIT SHALL BE EQUIPPED WITH A VENTILATION SYSTEM COMPLYING WITH SECTION MI 507.3.4, MI 507.3.5, MI507.3.6 OR MI507.3.7. PROVIDE A MINIMUM 45 CFM, CONTINUOUSLY OPERATING

SYSTEM FOR A DWELLING UNIT CONSISTS OF 2 TO 3 BEDROOMS AND LESS THAN 1500 SF. BEDROOM DOOR SHALL BE UNDERCUT TO A MINIMUM OF  $\frac{1}{2}$ " ABOVE THE SURFACE OF THE FINISH FLOOR COVERING. PROVIDE NOT LESS THAN 4 SQUARE INCHES OF NET FREE AREA

OF OPENING, SCREENED WITH DAMPER CONTROL FOR EACH BEDROOM.

NOTE: IF A WINDOW IN EACH HABITABLE ROOM IS EQUIPPED WITH A 4 SQUARE INCH MIN. FRESH AIR PORT, THEN THRU-WALL INLETS AS SHOWN ON PLANS WILL NOT BE REQUIRED.

OUTDOOR AIR INLETS SHALL BE LOCATED SO AS NOT TAKE AIR FROM THE FOLLOWING AREAS:

I. CLOSER THAN IO FEET FROM AN APPLIANCE VENT OUTLET, UNLESS SUCH VENT OUTLET IS 3 FEET ABOVE THE OUTDOOR AIR INLET.

2. WHERE IT WILL PICK UP OBJECTIONABLE ODORS, FUMES OR FLAMMABLE VAPORS.

3. A HAZARDOUS OR UNSANITARY LOCATION. 4. A ROOM OR SPACE HAVING ANY FUEL-BURNING APPLIANCE THEREIN.

5. CLOSER THAN 10 FEETS FROM A VENT OPENING OR PLUMBING DRAINAGE SYSTEM UNLESS THE VENT OPENING IS AT

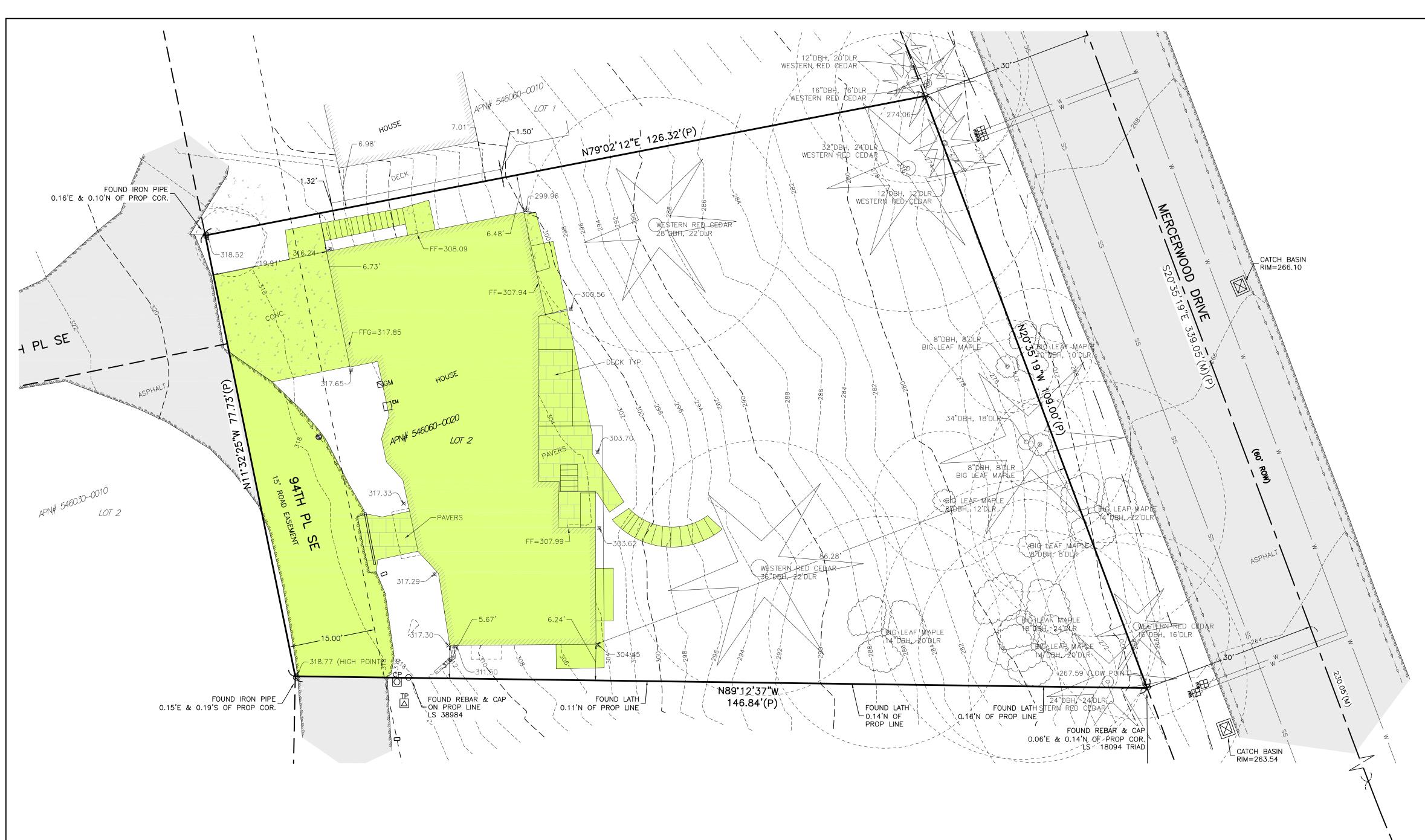
LEAST 3 FEET ABOVE THE AIR INLET. G. ATTIC, CRAWL SPACES OR GARAGES.

FENESTRATION OF PRODUCT RATING NFRC 100, labeled and certified by the manufacturer



Loo & Wai's Remodel	DATE 01-20
4124 94th PI SE	2022
Mercer Island 98040	SHEET
ENERGY	

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## BOUNDARY SURVEY NOTES

- INSTRUMENTATION FOR THIS SURVEY WAS A 3-SECOND LEICA VIVA TS15 SMART POLE TOTAL STATION/RTK GPS.
- PROCEDURES USED IN THIS SURVEY MEET OR EXCEED STANDARDS SET BY WAC 332–130–090. SURVEY WAS COMPLETED BY A FIELD TRAVERSE.
- ALL MONUMENTS WERE LOCATED DURING THIS SURVEY UNLESS OTHERWISE NOTED.
- ENCROACHMENTS NOTED AS "IN" OR "OUT" ARE RELATIVE TO THE SUBJECT PROPERTY
- FENCE DIMENSIONS ARE GENERALLY TO THE CENTERLINE OF THE FENCE UNLESS OTHERWISE NOTED.
- STRUCTURE LOCATIONS ARE MEASURED TO THE FINISHED FASCIA UNLESS OTHERWISE NOTED.
- TREE LOCATIONS ARE MEASURED TO THE ESTIMATED CENTER OF THE TREE.
- 8. ALL DIMENSIONS ARE IN DECIMAL FEET.

#### TOPOGRAPHIC SURVEY NOTES

- . UTILITIES SHOWN ON THIS SURVEY ARE BASED UPON ABOVE GROUND OBSERVATIONS, UTILITY LOCATES BY THIRD PARTIES, 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.
- CONTOURS SHOWN ARE BASED ON A FIELD SURVEY.
- . TREE IDENTIFICATION WAS PERFORMED BY SURVEY FIELD PERSONNEL AND SHOULD BE CONSIDERED A BEST GUESS. AN ARBORIST SHOULD BE RELIED UPON FOR MORE ACCURATE AND DETAILED IDENTIFICATION OF TREE SPECIES AND HEALTH.

SURVEYOR:	PLOG ENGINEERING, PLLC P.O. BOX 412 RAVENSDALE, WA 98051 PH.: (206) 420-7130
PROPERTY OWNER:	WAI TING ALICE CHAU & KA WING KEVIN LOO 4124 94TH PL SE MERCER ISLAND, WA 98040
TAX PARCEL NUMBER:	546060-0020
PROJECT ADDRESS:	4124 94TH PL SE MERCER ISLAND, WA 98040
PARCEL AREA:	12,351 S.F. (0.284 ACRES ±) AS SURVEYED
REFERENCE SURVEY	(S
P1 – PLAT OF MERCER R1 – AF# 2017122990	WOOD DIV 10, VOL 80, PG 100 0003
PERMITTING NOTES	
CURRENT LOT COVERAGE	<u></u>
ALL EXISTING SURFACES LOT AREA: 12,351 SF	: 3,892 SF
COVERAGE = 3,892/12,	351 X 100% = 31.51%

PROJECT INFORMATION

SURVEYOR:

## LOT SLOPE CALCULATION: HIGH POINT: SW CORNER ELEV=318.77 LOW POINT: SE CORNER ELEV=267.59 DISTANCE BETWEEN HIGH/LOW POINTS=146.84 FT SLOPE = (318.77-267.59)/146.84 X 100% = 34.85%

N PLOG

LEGAL DESCRIPTION LOT 2 OF MERCERWOOD DIVISION NO. 10, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 80 OF PLATS, PAGE 100, RECORDS OF KING COUNTY

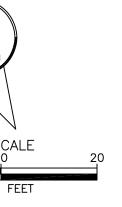
WASHINGTON. SITUATE IN THE CITY OF MERCER ISLAND, COUNTY OF KING, STATE OF WASHINGTON.

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

2.0' CONTOUR INTERVAL – THE EXPECTED VERTICAL ACCURACY IS EQUAL TO 1/2 THE CONTOUR INTERVAL OR  $\pm$  1.0' FOR THIS PROJECT.

BASIS OF BEARINGS PER THE PLAT OF MERCERWOOD DIVISION NO. 10, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 80 OF PLATS, PAGE 100, RECORDS OF KING COUNTY WASHINGTON.

ACCEPTED THE BEARING OF N 4°09'56" E FOR 95TH AVE SE BASED ON FOUND MONUMENTS IN CASE.



		LEGEND		
		MONUMENT AS NOTED		
	NW NE	SECTION CORNER		
	1	QUARTER SECTION CORNER		
	Ō	FOUND REBAR AS NOTED		
		SET REBAR AND CAP LS 31976		
		FOUND SURFACE MARKER/DISK SET SURFACE MARKER/DISK LS 31976		
	$\bigcirc$	SEWER MAINTENANCE HOLE		
	S	SEPTIC MAINTENANCE HOLE		
	O	SEWER CLEAN OUT		
	$\bigcirc$	-SEWER LINE STORM DRAIN MAINTENANCE HOLE		
	Q	CATCH BASIN (TYPE 2)		
		CATCH BASIN (TYPE 1)		
		STORM DRAIN CLEAN OUT		
		ROUND YARD DRAIN SQUARE YARD DRAIN		
		-STORM DRAIN LINE		
		WATER MAINTENANCE HOLE		
	₩¥ ₩M	WATER VALVE		
		WATER METER FIRE HYDRANT		
		BLOW OFF VALVE		
		IRRIGATION VALVE/JUNCTION		
		-WATER LINE		
		GAS VALVE		
		GAS METER -GAS LINE		
		CABLE RISER		
	■CTV	CABLE BOX		
		CABLE MAINTENANCE HOLE		
		FIBER OPTIC MAINTENANCE HOLE TELEPHONE MAINTENANCE HOLE		
		TRAFFIC SIGNAL MAINTENANCE HOLE		
	TMG	PAD MOUNTED TRANSFORMER		
	H	HAND HOLE		
		A/C COMPRESSOR YARD LIGHT		
	¢ ••••••	POWER POLE		
		GUY WIRE		
	·	STREET LIGHT		
		-OVERHEAD UTILITIES (GENERAL/MIXED) -OVERHEAD ELECTRICAL		
		OVERHEAD CABLE		
	—онт—	-OVERHEAD TELEPHONE		
	—UGU—	-UNDERGROUND UTILITIES (GENERAL/MIXED)		
		-UNDERGROUND ELECTRICAL		
		-UNDERGROUND CABLE -UNDERGROUND TELEPHONE		
		-UNDERGROUND FIBER OPTIC		
	o	BOLLARD		
$\mathbf{h}$	0 	MAILBOX		
R=275.00, L=54.6T	 ⊲wf	WETLAND FLAG		
·99.		SNAG		
Jos A				
	No contraction of the second s	DECIDUOUS MULTI-TRUNK		
		DECIDUOUS		
$\setminus$	發	CONIFER MULTI-TRUNK		
`\	*	CONIFER		
	, ,		j	
		IATION LEGEND		
FOUND MONUMENT IN CASE TACK IN LEAD IN CONC.	DN = D SP = S	OWN HORT PLAT		
1.0' BELOW SURFACE	DBH = D	OUNDARY LINE ADJUSTMENT IAMETER AT BREAST HEIGHT (FT) RIP LINE RADIUS (FT)		
	APN = A AF# = A	SSESSORS PARCEL NUMBER UDITOR'S FILE NUMBER		
S )), 66(	CL = C	/OOD HAIN LINK S MEASURED		
<b>AVE</b> <sup>W</sup> 348. 3.89 (P)	(C) = A (P) = P	S CALCULATED ER PLAT		
<b>95TH AVE SE</b> s108'17"W 348.99'(M) 348.89'(P)	(D) = P  (R#) = P  (H) = H	ER DEED ER REFERENCE SURVEY ELD		
THE X. P.		SW1/4, NE1/4, SEC18, TWF		
HARK A. PLOC WASHING C. ENGIN	U	BOUNDARY & TOPOG		SURVEY
	EERI	NG ALICE C 4124 94TH		
FOUND MONUMENT IN CASE TACK IN LEAD IN CONC. 0.8' BELOW SURFACE	Box 412	MERCER ISLAND,	WA 980	
0.8' BELOW SURFACE			VISION NO.:	SHEET

www.PlogEngineering.com

207-22 10/27/2022

1 OF 1

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