ABBREVIATIONS:

ABOVE ABOVE FINISHED FLOOR BELOW BOTTOM BOTTOM OF WALL CABINET CENTERLINE CONCRETE CONTINUOUS CENTERPOINT DETAIL DIAMETER DIMENSION DOOR DOWNSPOU[®] DISHWASHER EACH FXISTING EXTERIOR FACE OF CONCRET FACE OF WALL FINISHED GRADE FOUNDATION FLOOR FIREPLACE GAUGE GYPSUM WALL BOARD HOSE BIBB HEIGHT INFORMATION INSULATION INTERIOR LOW VOLTAGE METAL MANUFACTURER NOT APPLICABLE NOT IN CONTRACT NOT FOR CONSTRUCTION ON CENTER PROPERTY LINE RADIUS REFER TO SIMILAR TO BE DETERMINED TEMPERED GLASS TONGUE & GROOVE TOP OF WALL TYPICAL UNLESS NOTED OTHERWISE VERIFY IN FIELD WOOD WINDOW

PLAN LEGEND:

EXISTING WALL TO REMAIN NEW FULL-HEIGHT WALL NEW FULL-HEIGHT CONCRETE WALL PARTIAL-HEIGHT WALL PROPERTY LINE ____ BUILDING / STRUCTURE ABOVE _ _ _ _ _ _ _ _ _ _ **BUILDING / STRUCTURE BELOW** _ _ _ _ _ CENTERLINE _____ AREA OF DRAWING REVISION ELEVATION MARKER SECTION MARKER

GENERAL NOTES:

#Drgl

1. DO NOT SCALE DRAWINGS.

#DrglD #LaylD

2. THIS PROJECT SHALL COMPLY WITH ALL GOVERNING REGULATIONS, ORDINANCES, BUILDING CODES, OR COVENANTS OF THE AREA IN WHICH IT IS BUILT.

3. APPROVAL BY AN INSPECTOR DOES NOT CONSTITUTE AUTHORITY TO DEVIATE FROM THE DRAWINGS OR SPECIFICATIONS. 4. THE CONTRACTOR SHALL SCHEDULE WALK-THROUGHS AT EACH OF

BELOW NOTED INTERVALS: A. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

B. PRIOR TO THE COMMENCEMENT OF ALL MECHANICAL + ELECTRICAL WORK.

5. PROVIDE ALL NECESSARY BARRICADES, WARNING SIGNS, + DEVICES TO PROTECT PUBLIC + CONSTRUCTION PERSONNEL DURING CONSTRUCTION. 6. MAINTAIN ALL REQUIRED ACCESS + EGRESS DURING CONSTRUCTION.

DUTY OF COOPERATION:

RELEASE + ACCEPTANCE OF THESE DOCUMENTS INDICATES COOPERATION AMONG THE OWNER, THE CONTRACTOR, + JEFFREY ALMETER. ANY ERRORS, OMISSIONS, OR DISCREPANCIES DISCOVERED BY THE USE OF THESE DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO JEFFREY ALMETER. FAILURE TO DO SO SHALL RELIEVE JEFFREY ALMETER FROM ANY RESPONSIBILITY OF THE CONSEQUENCES.

ANY DEVIATIONS FROM THESE DOCUMENTS WITHOUT THE CONSENT OF JEFFREY ALMETER IS UNAUTHORIZED. FAILURE TO OBSERVE THESE PROCEDURES SHALL RELIEVE JEFFREY ALMETER OF RESPONSIBILITY FOR ALL CONSEQUENCES ARISING OUT OF SUCH ACTIONS.

> OTE: NATIVE PLANTING OPTIONS LISTED BELOW ARE FROM A LIST GENERATED BY 'PROTECT MERCER ISLAND PARKS' WEBSITE. CONSULTATION FOR BEST SPECIES AT THIS LOCATION AND INSTALLATION OF ALL NATIVE PLANTINGS SHALL BE BY A LOCAL LANDSCAPE INSTALL

Baldhip rose

- Beaked hazeInut/Filbert
- Big leaf maple
- Birch
- Black cottonwood
- Bracken fern
- 🛛 Douglas Or
- 🛛 False Solomon's seal
- Grand Or
- 🛛 Horsetail
- 🛛 Indian plum
-] Large-leaved avens
- Low Oregon grape
- Nootka rose
- Orange trumpet honeysuckle
- Oregon ash
- Red alder

Rush

Red towering currant

Red twig dogwood

Salal

] Salmonberry

- Shore pine
- Snowberry
- Sword fern
-] Tall Oregon grape
- Thimbleberry

- Vine maple
-] Trailing blackberry 🛛 Trillium

 - Western red cedar
 - Willow
- Siberian miner's lettuce



21/8

PROVIDE NATIVE PLANTINGS

FOR ALL AREA DISTURBED BY UPPER ROCKERY REMOVAL

AND SHORING INSTA

+

1'-6" REQ'L SIDE

MERCER RESIDENCE 6950 SE MAKER ST, MERCER ISLAND, WA 98040





LOT COVERAGE / IMPERVIOUS CALCS:

LOT AREA MAXIMUM ALLOWAE LOT SLOPE HIGH POIN LOW POIN HORIZON.

EXISTING ROOF IMP EXISTING DRIVES + EXISTING IMPERVIO EXISTING IMPERVIOU EXISTING IMPERVIO

PROPOSED STRUCT PROPOSED DRIVES PROPOSED HARDSO TOTAL PROPOSED I

TOTAL IMPERVIOUS SURFACE UPON COMPLETION:

EXCEPT AREAS OF EXISTING ROCKERY):

HARDSCAPE CALCULATIONS:

LOT AREA MAXIMUM ALLOWA

EXISTING ROCKERY PROPOSED TRASH CORNER, STEPS BETWEEN STEPS (IN PROPOSED CONCR PROPOSED BLOCK

TOTAL PROPOSED H

LOT AREA: MAXIMUM ALLOWABLE GEA ADDITIONAL GFA FOR ADU: TOTAL ALLOWABLE GEA \sim MAIN RESIDENCE BASEMENT GFA: ELEVATOR SHAFT @ BASEMENT: GARAGE GFA: BASEMENT ADU GFA: BASEMENT SUBTOTAL (937.5 FT² EXCLUDED SEE BELOW): FIRST FLOOR GFA:

(EXCLUDE STAIR PER 19.02.020.D.2.c): ELEVATOR SHAFT: SECOND FLOOR GFA: (EXCLUDE ELEVATOR SHAFT): SECOND FLOOR COVERED DECK GFA: TOTAL GROSS FLOOR AREA:

AVERAGE BUILDING

SEGMENT "A" ELEV SEGMENT "A" LENG SEGMENT "A" ELEV SEGMENT "B" ELEVA SEGMENT "B" LENG SEGMENT "B" ELEV SEGMENT "C" ELEVA SEGMENT "C" LENG SEGMENT "C" ELEVA SEGMENT "D" ELEV SEGMENT "D" LENG SEGMENT "D" ELEV

TOTAL OF AGGREG TOTAL OF SEGMENT

AVERAGE BUILDING

	8,750 FT ²
BLE IMPERVIOUS COVERAGE:	(35%) 3,062.50 FT ²
E CALCULATION:	20.1% SLOPE
IT 242.5	
IT 215.0	
TAL DISTANCE 133'	
ERVIOUS SURFACE:	3,010 FT ²
WALKS IMPERVIOUS SURFACE:	1,970 FT ²
US:	4,980 FT ²
US TO BE REMOVED:	4,980 FT ²
US SURFACE TO REMAIN:	O FT ²
URE IMPERVIOUS (INC UPPER DECK):	1,897 FT ²
IMPERVIOUS:	802 FT ²
CAPE:	82 FT ²
MPERVIOUS:	2,781 FT ²
SURFACE UPON COMPLETION:	(31.8%) 2,781 FT ²

PROPOSED LANDSCAPE AREA (REMAINDER OF LOT (68.2%) 5,969 FT²

HARDSCAPE:	(7.6%) 667 FT ²
WALL AT EAST PROPERTY:	63 FT ²
ETE RETAINING AT DRIVEWAY:	17 FT ²
NCLUDING RETAINING WALLS):	
ON GRADE AT NW CORNER, PATH	
H AREA, STEPS ON GRADE AT SW	91 FT ²
AT WESTERN PROPERTY:	496 FT ²
BLE HARDSCAPE AREA:	(9%) 787.5 FT ²
	8,750 FT ²

PROJECT INFO:

PROJECT ADDRESS: 6950 SE MAKER ST MERCER ISLAND, WA 98040

SCOPE OF WORK: NEW SINGLE FAMILY RESIDENCE

ZONE: R-8.4

TO 49

LEGAL DESCRIPTION: WHITE BROS 1ST TO EAST SEATTLE 46-47-48 & W 1/2 OF 49. BLOCK 3, LOT 46

ACCESSOR'S PARCEL NUMBER:

935090-0620

BUILDING CODE + OCCUPANCY: 2018 IRC, IBC, IFC, WSEC. 2018 IMC, IFGC, UPC WILL BE DEFERRED PERMITS BY INDIVIDUAL TRADES R-3 SINGLE FAMILY RESIDENTIAL (RESIDENCE)

U STORAGE (GARAGE, STORAGE)

TYPE OF CONSTRUCTION: TYPE-VB SPRINKLERED - NFPA 13D

PROVIDE MONITORED 'CHAPTER 29' NFPA 72 FIRE ALARM SYSTEM

VICINITY MAP:



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FLOOR AREAS:



EXCLUSION CALCS



ELEVATION CALCS:

ATION:	226.47′
STH:	35'
ATION x LENGTH:	7,926.45 FT ²
ATION:	231.25′
STH:	46'
/ATION x LENGTH:	10,637.5 FT ²
ATION:	231.50'
GTH:	35'
ATION x LENGTH:	8,102.50 FT ²
ATION:	236.00'
GTH:	46'
ATION x LENGTH:	10,856.00 FT ²
ATE ELEVATION:	37,522.45'
T LENGTHS:	162′
G ELEVATION:	231.62'

PROJECT TEAM:

ARCHITECT / APPLICANT JEFFREY ALMETER 9506 13TH AVE NW EATTLE, WA 98117 303.903.1783

SURVEYOR: TERRANE 10801 MAIN STREET SUITE 102 BELLEVUE, WA 98004

GEOTECHNICAL ENGINEER: GEOTECH CONSULTANTS - ADAM MOYER 2401 10TH AVE E

SEATTLE, WA 98102 425.747.5618

425.458.4488

CIVIL ENGINEER: GOLDSMITH ENGINEERING - MARK BARBER 11400 SE 8TH ST, SUITE 450 BELLEVUE, WA 98004 425.462.1080

STRUCTURAL ENGINEER DS ENGINEERING - DON SHIN 3121 147TH PLACE SE MILL CREEK, WA 98012 425.338.4776

CONTRACTOR: TBD

SHEET INDEX:

A1.0	PROJECT INFORMATION
A1.1	ENERGY FORMS
	SURVEY
SH1	SHORING PLAN AND SECTIONS
SH2	SHORING NOTES + DETAILS
SH3	PERMANENT SHORING PLAN
C-1	TESC PLAN
C-2	GRADING + DRAINAGE + UTILITY PLAN
C-3	PROFILES AND SECTIONS
C-4	DETAILS AND NOTES
A2.0	BASEMENT FLOOR PLAN
A2.1	FIRST FLOOR PLAN
A2.2	SECOND FLOOR PLAN
A2.3	ROOF PLAN
A3.1	BUILDING ELEVATIONS
A3.2	BUILDING SECTIONS
S1.0	GENERAL STRUCTURAL NOTES + DETAILS
S1.1	SECTIONS + DETAILS
S1.2	SECTIONS + DETAILS (1)
S2.0	FOUNDATION + FIRST FLOOR FRAMING PLAN
S2.2	SECOND FLOOR + ROOF FRAMING PLANS

RELEASE 21 MARCH 2022 PERMIT CORRECTIONS 20 FEBRUARY 2023 PERMIT CORRECTIONS 2 JUNE 2023



MAKER AVE



CLIENT: MERCER RESIDENCE 6950 SE MAKER SI MERCER ISLAND, WA 98040 WSU Code Compliance Calculator, WSEC 2018

STRAND F 6950 MAK MERCER I			Messages /	Results *		
6950 MAK MERCER I ontact Infor	RESIDENCE					
MERCER	ER STREET		Review re	quired for custom entries	s: - Doors	
ontact Infor	SLAND, WA 98040		UA Reduct	ion = 44.7, Proposed UA	is better than bas	seline
	mation		UA-reduction	on meets selected Option	1.3	
9506 13Th	ALMETER HAVE NW					
SEATTLE,	WA 98117		Whole Hou	se Mechanical Ventilation	Airflow Rate: 27	0 CFN
		J	* Results assume	your inputs are complete and corre	ect. Results do not cons	stitute an
AL 1313 31	What code compliance pathway are you using?	Table R406.3	3 UA Trade O	ff		
	Project Building Type?	New Constru	uction			1919
	Occupancy Type?	R3 Single fa	mily homes a	and duplexes		1919
	Code Version?	WSEC 2018	line the it do	54	Intete -	
	Classification:	Code Baselin	iling Unit – 43	51 sq. π.	as are equal	
	About Your Selection:	Up to 15 sf e	xempt window	and 24 sf exempt door a	llowable	
ESULTS - C	omparison of Baseline and Proposed Design Component Performance, R occupancies		Baseline			
		U	Area	UA		U
	Doors U =	0.300	430	128.9	0	.280
	Overhead Glazing U =	0.500	0	0.0		280
	Vertical Glazing U = Elat/Vaultod Collings U =	0.300	400	45.2	0	.230
	Vall (above grade) U	0.027	3.325	186.2	0	.054
	Floors over Crawlspace U =	0.029	616	17.9	0	.040
	Slab on Grade F =	0.540	0	0.0		
	Below Grade Wall U =	0.042	661	27.8	0	.055
	Below Grade Slab F =	0.570	154	87.8	C	.293
		Basel	line UA Total	631.5		Р
		Requ	uired Credits	6.0		F
						UA P
If the Prop	losed UA \leq the Target UA, and the Proposed Credits from Table 406 ar	re ≥ those req	uired in Sect	ion R406, then the home	meets the WSE	c .
Table R4	06.2 Fuel Normalization Credits					
						Fue
rstem No.	Full Description			Select System	n Type	Fue
ystem No.	Full Description For an initial heating system using a heat pump that meets federal stand listed in Table C403.3.2(1)C or C403.3.2(2) OR Air to water heat pump u	ards for the equinits that are c	quipment configured to	Select System	n Type	Fue
<mark>ystem No.</mark> 2	Full Description For an initial heating system using a heat pump that meets federal stand listed in Table C403.3.2(1)C or C403.3.2(2) OR Air to water heat pump u provide both heating and cooling and are rated in accordance with AHRI electric resistance or fossifiuel supnemental heat requires compliance with	ards for the equities that are of 550/590. He	quipment configured to at pump with 1.2 "Heat	Select Systen Heat Pump, air-to-air	n Type or air to water	Fu
ystem No2	Full Description For an initial heating system using a heat pump that meets federal stand listed in Table C403.3.2(1)C or C403.3.2(2) OR Air to water heat pump u provide both heating and cooling and are rated in accordance with AHRI electric resistance or fossil-fuel supplemental heat requires compliance wi Pump Supplementary Heat". Packaged Terminal Heat Pumps (PTAC-HP)	ards for the eq inits that are o 550/590. He ith WSEC 403) requires an H	quipment configured to at pump with .1.2 "Heat HSPF tested	Select System Heat Pump, air-to-air	n Type or air to water	Fue
iystem No2	Full Description For an initial heating system using a heat pump that meets federal stand listed in Table C403.3.2(1) C or C403.3.2(2) OR Air to water heat pump u provide both heating and cooling and are rated in accordance with AHRI electric resistance or fossil-fuel supplemental heat requires compliance wi Pump Supplementary Heat". Packaged Terminal Heat Pumps (PTAC-HP, value (See SBC Interpretation dated December 2020).	ards for the eq inits that are of 550/590. He ith WSEC 403) requires an H	quipment configured to at pump with .1.2 "Heat ISPF tested	Select System Heat Pump, air-to-air	n Type or air to water	Fue
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Table R4 2 Jption No. 1 2 3 4 5.1 5.2-5.6 6 7 2 1	Full Description For an initial heating system using a heat pump that meets federal stand listed in Table C403.3.2(1) Cor C403.3.2(2) OR Air to water heat pump up provide both heating and cooling and are rated in accordance with AHRI electric resistance or fossil-fuel supplemental heat requires compliance with Pump Supplementary Heat". Packaged Terminal Heat Pumps (PTAC-HP) value (See SBC Interpretation dated December 2020). OB.3 Energy Credits Category Bifficient Supplementary Heat". Packaged Terminal Heat Pumps (PTAC-HP) value (See SBC Interpretation dated December 2020). OB.3 Energy Credits Category Bifficient Supplementary Heat". Packaged Terminal Heat Pumps (PTAC-HP) value (See SBC Interpretation dated December 2020). OB.3 Energy Credits Category Efficient Building Envelope Air Leakage Control and Efficient Ventilation High Efficiency HVAC High Efficiency HVAC Distribution System Efficient Water Heating Renewable Electric Energy Appliance Package *Refer to WSEC 2018 Table R406.3 for complete option descriptions of the package	ards for the ec inits that are c 550/590. He th WSEC 403) requires an H 1,200 and requirement or Area, Prop C	auipment configured to at pump with 1.2 "Heat HSPF tested 	Select System Heat Pump, air-to-air Select Options Option 1.3 Option 3.2 Option 3.2 Option 4.2 Option 5.3 Option 5.3 Option 6.1 Option 7.1 Energy Credits U	Type or air to water Energy Credits 0.5 0.0 1.0 1.0 1.0 0.5 5.0	Fue C C C C C C C C C C C C C C C C C C C
System No. 2 Table R4 Option No. 1 2 3 4 5.1 5.2-5.6 6 7 1 1 1 1 2 3 4 5.1 6 7 IERMAL EN	Full Description For an initial heating system using a heat pump that meets federal stand listed in Table C403.3.2(1) Cor C403.3.2(2) OR Ari to water heat pump up provide both heating and cooling and are rated in accordance with AHRI electric resistance or fossil-fuel supplemental heat requires compliance with Pump Supplementary Heat". Packaged Terminal Heat Pumps (PTAC-HP) value (See SBC Interpretation dated December 2020). OB.3 Energy Credits Category Bifficient Building Envelope Air Leakage Control and Efficient Ventilation High Efficiency HVAC High Efficiency HVAC Efficient Water Heating Efficient Water Heating Efficient Venter Heating Renewable Electric Energy Appliance Package VELOPE DETAILS - Proposed Design Conditioned Flor	ards for the ec inits that are c 550/590. He th WSEC 403) requires an F 1,200 and requirem or Area, Prop. C	auipment configured to at pump with .1.2 "Heat ISPF tested kWh ents osed Design lassification Notes	Select System Heat Pump, air-to-air Select Options Option 1.3 Option 3.2 Option 4.2 Option 5.3 Option 5.3 Option 7.1 Energy Credits Heat Pump, air-to-air Select Option 7.1 Se	Type Or air to water Energy Credits O.5 O.0 O	Fue C

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WSU Code Compliance Calculator, WSEC 2018

			Plan	Component		Door		Wi	idth	He	ight				
			ID	Description	Ref.	U	Qt.	Feet	Inch	Feet	Inch	Area	UA		
			Exempt	MARVIN .28 DBL GLZ, LOW-E	Custom	0.28	1	3	0	7	0	21	5.9		Refer to WSEC R402.1.
han ba	aseline by 7%		SIDELITE	MARVIN .28 DBL GLZ, LOW-E	Custom	0.28	1	2	0	7	0	14	3.9		Refer to WSEC R402.1.5
			005C	MARVIN .28 DBL GLZ, LOW-E	Custom	0.28	1	9		7	0	63	17.6		Refer to WSEC R402.1.5
			102B	MARVIN 28 DBL GLZ, LOW-E	Custom	0.28	1	9	0	0 8	0	48	13.4		Refer to WSEC R402.1.5
ate: 27	70 CFM with Run Time Percent of 50%, Unbalanced, Not Dis	tributed	202A	MARVIN .28 DBL GLZ, LOW-E	Custom	0.28	1	12	0	8	0	96	26.9	4444	Refer to WSEC R402.1.5
			204A	MARVIN .28 DBL GLZ, LOW-E	Custom	0.28	1	17	, 1	8	0	137	38.3		Refer to WSEC R402.1.5
io not con	nstitute an approval. Analysis should be reviewed by your AHJ.											0	0.0		
												0	0.0		
	<u> </u>											0	0.0		
33						1 1	Sum of A	Area and U	A (excludi	ing exer	nnt door)	430	120.3		
2525	-1-1-1-1-1-1-1-1						00000	Exter	ior Doors	Area We	ighted U		0.280		
ual.															-
			Overhead	l Glazing											
			Plan	Component		Glazing		Wi	idth	He	ight	4			
			ID	Description	Ref.	U	Qt.	Feet	Inch	Feet	Inch	Area	UA		
								-							
	Proposed Design														
_	0 Area UA											-	P		
												-			
(0.280 460 128.7								Sun	n of Area	a and UA	0.0	0	() () () () () () () () () ()	0
(0.031 1,673 52.2							Overhead	d Glazing	Area We	ighted U	L	;	191919	
(0.054 3,325 179.6														1
1	0.040 616 24.6														1
<u> </u>	0 0.0		Vertical G	lazing Schedule		I					R	ows to Show 16	3		-
	0.000 661 36.4		Plan	Component	Def	Glazing	0	Wi	Inch	He	light Inch		114		
·	104 40.1		Exempt	U=0.28 (Ontions 1a, 1, 3, 1, 7)	Table 406 2	0.28	1	2	, 0	Feet	0	12.0	3 36	41+1+1+	1-1-1-1-1-1-1-1-1-
	Proposed UA Total 586.8		1 103A	U=0.28 (Options 1a, 1.3, 1.7)	Table 406.2	0.28	1	3	0	6	0	18.0	5.04		
	Proposed Credits 6.0 from Tables 406.2	and 406.3	2 103B	U=0.28 (Options 1a, 1.3, 1.7)	Table 406.2	0.28	1	6	0 0	6	0	36.0	10.08		
	UA Percent Reduction 7.1%		3 103C	U=0.28 (Options 1a, 1.3, 1.7)	Table 406.2	0.28	1	3	0	6	0	18.0	5.04	(4:4:4)	
	UA Reduction 44.7		4 105A	U=0.28 (Options 1a, 1.3, 1.7)	Table 406.2	0.28	1	9	0	6	0	54.0	15.12		
o WSE			5 106A	U=0.28 (Options 1a, 1.3, 1.7)	Table 406.2	0.28	1	6	6 U	6	0	36.0	10.08	4444	
e wae	.		6 108A	U=0.28 (Options 1a, 1.3, 1.7)	Table 406.2	0.28	1	2	0	6	0	12.0	3.36		
			8 111A	U=0.26 (Options 1a, 1.3, 1.7)	Table 406.2	0.20	1	6	0	6	0	36.0	10.08		
	1 1		9 202A	U=0.28 (Options 1a, 1.3, 1.7)	Table 406.2	0.28	1	3	0	6	0	18.0	5.04	(11) (1) (1)	
	Fuel Normalization	Credits (406.2	10 202B	U=0.28 (Options 1a, 1.3, 1.7)	Table 406.2	0.28	1	6	6 0	6	0	36.0	10.08		
	Credits (400.2) Energy Credits (400.3)	& 400.3)	11 203A	U=0.28 (Options 1a, 1.3, 1.7)	Table 406.2	0.28	1	9	9 0	6	0	54.0	15.12		
			12 203B	U=0.28 (Options 1a, 1.3, 1.7)	Table 406.2	0.28	1	9	7	6	0	57.5	16.10	414 (A)	
			13 205A	U=0.28 (Options 1a, 1.3, 1.7)	Table 406.2	0.28	1	6	6 ⁰	6	0	36.0	10.08		
vater	1.0 5.0	6.0	14 206A	U=0.28 (Options 1a, 1.3, 1.7)	Table 406.2	0.28	1	2	2 0	6	U	12.0	3.36		
			15					-							
			10			II	Sum of Area	a and UA (excluding	exempt	window)	459.5	128.7		
							04111 017 4 01	Vertica	I Glazing	Area We	ighted U		0.280	414 (A (A	
							Vertical	l Glazing a	nd Doors	Area We	ighted U		0.280		
.															
Credits	s Brief Description of Selected Options*														1
5	U 0.28 Windows / R-38 floors or R-10 Fully insulated slab	. Or 5%	Flat/Vaulte	ed Ceilings											_
		\smile	Plan	Component	D.(Attic									
n			ID	Description	10.7A	U 0.021						Area	UA 52.2	1 I	
				or mass two cavity to oneath of Opan	10-7A	0.031						1,073	52.2		
														11111	
U	Heat Pump: Air Source with min HSPF of 9.5										<u>19191</u>				
									Sun	n of Area	a and UA	1,673	52.2	(1+1+1+	1+1+1+1+1+1+1+1+
U	Ducts/distribution system in conditioned space per R403.	3.7													_
															1
0			Walls (Abo	ove Grade)											-
			Plan	Component	Pof	Wall						Not Area	114		
0	Gas or propane water heater with min UEF of 0.91 OR So supplemental OR GSHP	blar		R21 cavity+R0 foam INT 2X6W Lan (Code Baseline)	10-5	0 054					1+1+1+	3 325	180	l_{12}	
				Ref ouring the fouri interestion cap (obde buseline)	10 0	0.004						0,020	100	61818	
0	On-site wind or solar electric energy													11111	
											14141				
5	Appliance Package								Sun	n of Area	a and UA	3,325	180	09.99	
-															
0			-												1
			Floor (ove	r crawl or exterior)		Floor							110		-
				Description	Ref	LI LI						Area	UA		
				R38 Wood Joist Exposed	10-4A	0.040					11111	616	25	1-1-1-1	
									Sun	n of Area	a and UA	616	25	11111	12-2-2-2-2-2-2-2

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7/4/2022

Slab on Grade Plan ID Below Grade V

ntilation Requ HVAC Thermal Dist Is this a hydroni Location of Duct Location of Air H Option 4.2: A max Links to Download Compliance Cer Insulation Certifi Duct Testing Affa

Prescriptive Che Alterations (Ren Heating System Ind

7/4/2022

WSU Code Compliance Calculator, WSEC 2018

(less than 2 feet below grade)									
Component		Slab							
Description	Ref.	F				Slab Perim	FP		
								-	
				Sum of Pe	rimeter and FP	0	(<u>)</u> 1997 - 1997 - 1997	1909 - Po
									I
alls and Slaks									1
Component		Wall	Wall	Wall	Slab		Slab		
Description	Ref.	U	Area	UA	F	Slab Perim	UA		
Perimeter 7' depth w/TB, R10 Full Underslab (Option 1a-1c)	Baylon & Ker	0.055	661	36.4	0.293	154	45	5	
Si	um of Area, Le	ngth and UA	661	36.4		154	45	5	
									I
ements									1
Number of Bedrooms	5								
Run-Time Percent in Each 4-Hour Segment	50%								
Is the system Balanced?	Unbalanced	a d							
Is the system Distributed? Ventilation Code Section	IRC, Chapter	ed 15							
Whole House Mechanical Ventilation Airflow Rate	270	CFM							
									J
tribution System		Dorumla	I DC 22 (2040)	atto://www.opomu.us			ting%20Star	darde%20_20	1
stribution System		Download	1 RS-33 (2018)	http://www.energy.ws	u.edu/Documen	IS/DUCI%20Tes	ang %205tant	18105%20 20	
ts		Conditioned	Space		444 (A)				
Handler		Conditioned	Space		8180 - S				
Is Duct Test	ing Required?	No							
kimum of 10 feet of return ducts and 5 feet of supply ducts are allowed to	be located outsid	de of the buildir	ng thermal envelop	e, if insulated and seale	ed per R403.3.7.				I
d Forms Checklists and Other Resources	Li	nk							1
rtificate	Compliance (Certificate	Instructions						
ficate for Residential New Construction	Insulation Ce	rtificate							
fadavits									
Existing Construction	n Affidavit, Exist	v							
necklist for 2018 WSEC	Prescriptive C	<u>.</u> Checklist							
model) Worksheet	Worksheet								
									l
Show Heating System Sizing	2 Show								1
Sizing - Proposed Design	ry Out BetterB	uiltNW's HVA	C Sizing Tool:	https://betterbuiltnw.c	om/resources/h	vac-sizing-tool			
est Weather Station		Seattle: Se	ea-Tac AP						1
or Design Temperature	70	F							
oor Design Temperature	24	F							
gn Temperature Difference (ΔT)	46	F							
litioned Floor Area, Proposed Design	4 351	ft2							
litioned Volume	36,984	ft3						11111	
ve blank to use default of 8.5 ft. ceiling height		-							
C System Type	Heat Pump			- 1-1-1-1					
tion of HVAC Distribution System	Conditioned	Space							
of UA, including exempt door and window	596	1							
lope Heat Load	27,419	Btu / Hour							
	40.070	Den / Linne							
eakage Heat Load lume X 0.6) X ∆T) X .018))	18,373	Btu / Hour							
ling Design Heat Load	45,793	Btu / Hour							
eakage + Envelope Heat Loss		-							
ling and Duct Heat Load	45,793	Btu / Hour							
ducts located in unconditioned space: Sum of Building Heat Loss X 1.1									
mum Heat Equipment Output	F7 244	Btu / Hour							
ding and Duct Heat Loss X 1.25 for heat pumps	57,241								
ting and Duct Heat Loss X 1.40 for all other systems									

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RELEASE 21 MARCH 2022 PERMIT CORRECTIONS 20 FEBRUARY 2023 PERMIT CORRECTIONS 2 JUNE 2023



00651

LEGAL DESCRIPTION

(PER PERSONAL REPRESENTATIVE DEED RECORDING# 20210415002461)

LOTS 46, 47, 48 AND THE WEST ONE-HALF OF LOT 49 IN BLOCK 3 OF WHITE BROTHERS FIRST ADDITION TO EAST SEATTLE, AS PER PLAT RECORDED IN VOLUME 4 OF PLATS, PAGE 100, RECORDS OF KING COUNTY AUDITOR;

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

BASIS OF BEARINGS

HELD N 88°48'41" W BETWEEN MONUMENTS FOUND ON THE CENTERLINE OF SE 32ND ST PER GPS OBSERVATIONS, NAD83/2011 WASHINGTON STATE PLANE, NORTH ZONE.

REFERENCES

R1. RECORD OF SURVEY, VOL. 133, PG. 28, R2. RECORD OF SURVEY, VOL. 7, PG. 171,

R3. PLAT OF WHITE & NOBLES FIRST ADD., REC. NO. 1889050232489, RECORDS OF KING COUNTY, WASHINGTON.

VERTICAL DATUM

NAVD88, PER GPS OBSERVATIONS.

SURVEYOR'S NOTES

- 1. THE TOPOGRAPHIC SURVEY SHOWN HEREON WAS PERFORMED IN MAY OF 2021. THE FIELD DATA WAS COLLECTED AND RECORDED ON MAGNETIC MEDIA THROUGH AN ELECTRONIC THEODOLITE. THE DATA FILE IS ARCHIVED ON DISC OR CD. WRITTEN FIELD NOTES MAY NOT EXIST. CONTOURS ARE SHOWN FOR CONVENIENCE ONLY. DESIGN SHOULD RELY ON SPOT ELEVATIONS.
- 2. ALL MONUMENTS SHOWN HEREON WERE LOCATED DURING THE COURSE OF THIS SURVEY UNLESS OTHERWISE NOTED.
- 3. THE TYPES AND LOCATIONS OF ANY UTILITIES SHOWN ON THIS DRAWING ARE BASED ON INFORMATION PROVIDED TO US, BY OTHERS OR GENERAL INFORMATION READILY AVAILABLE IN THE PUBLIC DOMAIN INCLUDING, AS APPLICABLE, IDENTIFYING MARKINGS PLACED BY UTILITY LOCATE SERVICES AND OBSERVED BY TERRANE IN THE FIELD. AS SUCH, THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY AND SHOULD NOT BE RELIED ON FOR DESIGN OR CONSTRUCTION PURPOSES; TERRANE IS NOT RESPONSIBLE OR LIABLE FOR THE ACCURACY OR COMPLETENESS OF THIS UTILITY INFORMATION. FOR THE ACCURATE LOCATION AND TYPE OF UTILITIES NECESSARY FOR DESIGN AND CONSTRUCTION, PLEASE CONTACT THE SITE OWNER AND THE LOCAL UTILITY LOCATE SERVICE (800-424-5555).
- 4. SUBJECT PROPERTY TAX PARCEL NO. 9350900620.
- 5. SUBJECT PROPERTY AREA PER THIS SURVEY IS 8,750± S.F. (0.20 ACRES)
- 6. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT. EASEMENTS AND OTHER ENCUMBRANCES MAY EXIST THAT ARE NOT SHOWN HEREON.
- 7. FIELD DATA FOR THIS SURVEY WAS OBTAINED BY DIRECT FIELD MEASUREMENTS WITH A CALIBRATED ELECTRONIC 5-SECOND TOTAL STATION AND/OR SURVEY GRADE GPS OBSERVATIONS. ALL ANGULAR AND LINEAR RELATIONSHIPS ARE ACCURATE AND MEET THE STANDARDS SET BY WAC 332-130-090.



STEEP SLOPE/BUFFER DISCLAIMER: THE LOCATION AND EXTENT OF STEEP SLOPES SHOWN ON THIS DRAWING ARE FOR

INFORMATIONAL PURPOSES ONLY AND CANNOT BE RELIED ON FOR DESIGN AND/OR CONSTRUCTION. THE PITCH, LOCATION, AND EXTENT ARE BASED SOLELY ON OUR GENERAL OBSERVATIONS ON SITE AND OUR CURSORY REVIEW OF READILY AVAILABLE PUBLIC DOCUMENTS; AS SUCH, TERRANE CANNOT BE LIABLE OR RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY STEEP SLOPE INFORMATION. ULTIMATELY, THE LIMITS AND EXTENT OF ANY STEEP SLOPES ASSOCIATED WITH ANY SETBACKS OR OTHER DESIGN OR CONSTRUCTION PARAMETERS MUST BE DISCUSSED AND APPROVED BY THE REVIEWING AGENCY BEFORE ANY CONSTRUCTION CAN OCCUR.









MAKER AVE 00653

General Structural Notes

The Following Apply Unless Noted Otherwise on the Drawings

Criteria

- 1. CODE REQUIREMENTS: ALL DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, 2018 EDITION.
- 2. REFERENCE DOCUMENTS:
- a. TOPOGRAPHIC AND BOUNDARY SURVEY BY Terrane DATED May 27, 2021 b. REPORT ON GEOTECHNICAL INVESTIGATION BY Geotech Consultants, INC, DATED MARCH 21 2022, (Proj #JN-22007)
- 3. DESIGN LOADS: THE SOIL PRESSURE INDICATED ON THE SOIL PRESSURE DIAGRAMS WHERE USED FOR DESIGN.
- 4. SOILS INSPECTION: INSPECTION BY THE SOILS ENGINEER SHALL BE PERFORMED FOR PILE PLACEMENT. ALL PREPARED SOIL BEARING SURFACES SHALL BE INSPECTED BY THE SOILS ENGINEER PRIOR TO PLACEMENT OF PILE. SOIL COMPACTION SHALL BE SUPERVISED/TESTED BY THE GEOTECHNICAL ENGINEER.
- 5. SPECIAL INSPECTION: SPECIAL INSPECTION OF THE FOLLOWING TYPES OF CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH SECTIONS 110 AND 1701 OF THE INTERNATIONAL BUILDING CODE AND THE PROJECT SPECIFICATIONS BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE ARCHITECT, AND RETAINED BY THE BUILDING OWNER. THE ARCHITECT, STRUCTURAL ENGINEER, AND BUILDING DEPARTMENT SHALL BE FURNISHED WITH COPIES OF ALL INSPECTION AND TEST RESULTS.

-STRUCTURAL STEEL FABRICATION AND ERECTION (INCLUDING FIELD WELDING AND HIGH-STRENGTH FIELD BOLTING)

- 6. UTILITY LOCATION: THE SHORING CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL ADJACENT UNDERGROUND UTILITIES PRIOR TO DRILLING PILE HOLES OR CUTTING OR DIGGING IN STREETS OR ALLEYS. THE UTILITIES INFORMATION SHOWN ON THE PLANS MAY BE NOT COMPLETE.
- 7. SPECIAL CONDITIONS: CONTRACTOR SHALL VERIFY ALL DIMENSIONS OF EXISTING STRUCTURES IN THE FIELD AND SHALL NOTIFY THE ENGINEER OF ALL FIELD CHANGES PRIOR TO FABRICATION AND INSTALLATION.
- 8. SOILS: SEE REPORT OF GEOTECHNICAL INVESTIGATION FOR MORE COMPLETE INFORMATION, INCLUDING RECOMMENDATIONS FOR SHORING IN GENERAL, SHORING MONITORING, EXCAVATION, LAGGING, AND DRAINAGE.
- 9. SAWN LUMBER: SAWN LUMBER SHALL CONFORM TO "GRADING AND DRESSING RULES,"WEST COAST LUMBER INSPECTION BUREAU (WCLIB), LATEST EDITION. LUMBER SHALL BE THE SPECIES AND GRADE NOTED IN THE LAGGING TABLE.

TIMBER LAGGING SHALL BE PRESSURE TREATED WITH WATERBORNE PRESERVATIVES IN ACCORDANCE WITH AWPB STANDARD U1 AND SHALL MEET A USE CATEGORY OF UC4B OR BETTER. LAGGING SHALL BE 4X10 UNLESS OTHERWISE NOTED ON DRAWINGS.

- 10. STEEL SPECIFICATIONS: DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING SPECIFICATIONS:
- a. STRUCTURAL STEEL: AISC SPECIFICATION FOR STRUCTURAL STEEL
- BUILDINGS--ALLOWABLE STRESS DESIGN.
- b. WELDING: AWS D1.1.(AWS PREQUALIFIED JOINT DETAILS USE 1/4" MINIMUM WELDS UNLESS NOTED OTHERWISE).
- c. WELDER CERTIFICATION: WASHINGTON ASSOCIATION OF BUILDING OFFICIALS (WABO).vv

11. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

TYPE OF MEMBER	ASTM SPECIFICATION	Fy
WIDE FLANGE	A992	50 KSI
PIPE	A53	35 KSI
PLATES, SHAPES, ANGLES, AND RODS	A36	36 KSI
STRUCTURAL BOLTS	A325-N	
WOOD CONNECTION BOLTS	A307	
WELDING ELECTRODES	E70XX	

Concrete

1. CONCRETE: CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF CHAPTER 19 OF THE 2018 IBC. CONCRETE STRENGTHS SHALL BE VERIFIED BY STANDARD CYLINDER TESTS, UNLESS APPROVED OTHERWISE. REQUIRED ULTIMATE COMPRESSIVE STRENGTH OF STRUCTURAL GROUT SHALL BE REACHED BY 7 DAYS FOR TIEBACKS AND 28 DAYS FOR PILES.

f'c	Minimum Cement	Max. Water F	Per Use
(psi)	Per Cubic Yard	94 LB Cement	
	1-1/2 Sacks		Pile lean concrete
3,000	6 Sacks (PILING)	6 Gallons	Pile struct. grout

CONCRETE WALL SHALL ATTAIN A 28-DAY STRENGTH OF f'c=3,000 PSI

AS AN ALTERNATIVE TO THE ABOVE, THE CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR APPROVAL TWO WEEKS PRIOR TO PLACING ANY CONCRETE. THE ALTERNATE MIX DESIGN WILL BE REVIEWED FOR CONFORMANCE TO ACI 318 Ch. 5 WITH SBC REVISIONS.

- 2. ALL CONCRETE WITH SURFACES EXPOSED TO WEATHER OR STANDING WATER SHALL BE AIR-ENTRAINED WITH AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260, C494, AND C618. TOTAL AIR CONTENT FOR FROST-RESISTANT CONCRETE SHALL BE IN ACCORDANCE WITH TABLE ACI 318 TABLE 4.2.1 MODERATE EXPOSURE.
- 3. REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT S1), GRADE 60, fy=60,000 PSI. EXCEPTIONS: ANY BARS SPECIFICALLY SO NOTED ON THE DRAWINGS SHALL BE GRADE 40, fy=40,000 PSI. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. SPIRAL REINFORCEMENT SHALL BE PLAIN WIRE CONFORMING TO ASTM A615, GRADE 60, fy=60,000 PSI.

Pipe and Lagging Construction

- 1. DEMOLITION: SHORING AND SOIL EXCAVATION SHALL BE DONE SIMULTANEOUSLY. 2. VERIFICATION: DIMENSIONS AND LOCATION OF EXISTING STRUCTURES SHALL BE
- VERIFIED PRIOR TO FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBER. NOTIFY ENGINEER ABOUT ANY DISCREPANCIES PRIOR TO FABRICATION.
- 3. STEEL PILE PLACEMENT TOLERANCES:
- 1" INSIDE PERPENDICULAR TO SHORING WALL. 1" OUTSIDE PERPENDICULAR TO SHORING WALL 3" LATERALLY.
- 4. LAGGING: TIMBER LAGGING SHALL BE INSTALLED IN ALL AREAS. VOIDS BETWEEN LAGGING AND SOIL SHALL BE BACKFILLED PER THE GEOTECHNICAL ENGINEERS RECOMMENDATIONS. DRAINAGE BEHIND THE WALL MUST BE MAINTAINED. IT IS CONTRACTOR'S RESPONSIBILITY TO LIMIT THE AMOUNT OF EXPOSED SOIL WITHOUT LAGGING TO AVOID LOSS OF SOIL. MAXIMUM HEIGHT OF 4 FEET IS RECOMMENDED. SPECIAL CARE SHOULD BE TAKEN TO AVOID GROUND LOSS DURING EXCAVATION.

5. SHORING MONITORING: A SYSTEMATIC PROGRAM OF OBSERVATION SHALL BE CONDUCTED DURING THE PROJECT EXECUTION TO DETERMINE THE EFFECT OF CONSTRUCTION ON ADJACENT FACILITIES AND STRUCTURES IN ORDER TO PROTECT THEM FROM DAMAGE. REFER TO REPORT OF GEOTECHNICAL INVESTIGATION FOR RECOMMENDATIONS. FIELD DATA AND MEASUREMENTS ARE TO BE SUBMITTED TO STRUCTURAL AND GEOTECHNICAL ENGINEER FOR REVIEW.

MONITORING PLAN SHALL INCLUDE THE FOLLOWING:

- THE TOP OF EVERY OTHER PILE SHALL BE MONITORED. - MULTIPLE REFERENCE POINTS SHOULD BE ESTABLISHED SUFFICIENTLY FAR AWAY FROM THE SHORING TO ACT AS CONTROL POINTS FOR THE MONITORING PLAN - ESTABLISH A BASELINE READING OF MONITORING POINTS ON THE GROUND SURFACE AND SETTLEMENT-SENSITIVE STRUCTURES BEHIND THE SHORING WALL ALIGNMENT
- PRIOR TO EXCAVATION AND INSTALLATION OF THE SHORING SYSTEMS. - A LICENSED SURVEYOR MUST DO THE SURVEYING AT LEAST ONCE A WEEK. - SURVEY FREQUENCY CAN BE DECREASED AFTER THE SHORING SYSTEM HAS BEEN
- INSTALLED AND EXCAVATION IS COMPLETE IF THE DATA INDICATES LITTLE OR NO ADDITIONAL MOVEMENT. SURVEYING MUST CONTINUE UNTIL THE PERMANENT
- STRUCTURE IS COMPLETE UP TO THE TOP OF THE SHORING WALL. THE SURVEY FREQUENCY WILL BE DETERMINED BY THE GEOTECHNICAL ENGINEER AFTER REVIEW AND
- APPROVAL BY THE CITY OF MERCER ISLAND BUILDING OFFICIAL. (COMIBO)
- THE GEOTECHNICAL ENGINEER SHALL REVIEW SURVEY DATA AND PROVIDE AN EVALUATION OF WALL PERFORMANCE ALONG WITH SURVEY DATA TO COMIBO ON
- AT LEAST A WEEKLY BASIS. IMMEDIATELY AND DIRECTLY, NOTIFY COMIBO IF ANY UNUSUAL OR SIGNIFICANTLY INCREASED MOVEMENT OCCURS.
- IMMEDIATELY AND DIRECTLY NOTIFY THE GEOTECHNICAL AND STRUCTURAL ENGINEERS, IF 0.5 INCHES OF MOVEMENT OCCURS BETWEEN TWO CONSECUTIVE READINGS AND
- WHEN TOTAL MOVEMENTS REACH 0.5 INCH. AT THAT AMOUNT OF MOVEMENT, THE
- DEVELOP REMEDIAL MEASURES SUFFICIENT TO LIMIT TOTAL WALL MOVEMENTS TO WHAT HAS BEEN DEFINED AS ACCEPTABLE BY THE DESIGN TEAM.

mmmmmm

REMOVE 4'-5' OF ROCKERY AS NECESSARY TO FACILITATE INSTALLATION OF PILE, PROVIDE TIMBER LAGGING PER 12/SH1 ABOVE ROCKERY. PERMANENT WOOD LAGGING SHALL MEET AWPA USE CATEGORY UC4B STANDARDS.

West Stabalization Wall Loading Diagram SCALE: 3/4"=1'-0"

Pile Mark	Auger Dia.	Wide Flange	Max. Height H (ft.)	Min Embed D (ft.)	Min. X (ft.) Above Top of Excavation	Туре
P1	24"	W16x100	11'-6"	20'-0"	1'-0"	Cantilev
P2	24"	W16x100	11'-6"	20'-0"	1'-0"	Cantilev
P3	24"	W16x100	11'-6"	20'-0"	1'-0"	Cantilev
P4	24"	W16x100	11'-6"	20'-0"	1'-0"	Cantilev
P5	24"	W16x100	11'-6"	20'-0"	1'-0"	Cantilev
P6	24"	W14x68	11'-6"	15'-0"	1'-0"	Cantilev
P7	24"	W14x68	11'-6"	15'-0"	1'-0"	Cantilev
P8	24"	W14x68	11'-6"	15'-0"	1'-0"	Cantilev
P9	24"	W14x68	11'-6"	15'-0"	1'-0"	Cantilev
P10	24"	W14x68	11'-6"	15'-0"	1'-0"	Cantilev
P11	24"	W14x68	11'-6"	15'-0"	1'-0"	Cantilev
P12	24"	W14x68	11'-6"	15'-0"	1'-0"	Cantilev
P13-P37	24"	W12X40	10'-0"	12'-0"	0'-0"	Cantilev

Pile Schedule

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Pile Loading Diagram SCALE: 3/4"=1'-0"

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LEGEND

[+]	AREA DRAIN	$\mathbf{\dot{k}}$	NAIL AS NOTED
	ASPHALT SURFACE		PAVER SURFACE
<u>~~~~~~~</u>	BUILDING	P	POWER METER
	CENTERLINE ROW	—— P ——	POWER (OVERHEAD)
COL	COLUMN	TRYTE	ROCKERY
	CONCRETE SURFACE	22	SEWER LINE
	RETAINING WALL	\bigcirc	SEWER MANHOLE
	DECK	SD	STORM DRAIN LINE
	FENCE LINE (WOOD)	SCO O	SEWER CLEANOUT
G 🗌	GAS METER	SIZE TYPE	TREE (AS NOTED)
	INLET (TYPE 1)		WATER LINE
	MONUMENT IN CASE (FOUND)	WM 🗌	WATER METER
	MONUMENT (SURFACE, FOUND)	$\mathbb{W} \vee \mathbb{M}$	WATER VALVE

LEGEND (EROSION)

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EXISTING CONTOUR LINE PROPOSED CONTOUR LINE PROPOSED SILT FENCE PROPOSED LIMIT OF CONSTRUCTION PROPOSED CATCH BASIN INSERT EXISTING TREE TO BE RETAINED EXISTING TREE TO BE REMOVED TREE PROTECTION

SURVEY NOTE

EXISTING SURVEY INFORMATION SHOWN HEREON IS BASED ON SURVEY BY TERRANE SURVEYING & MAPPING, AND ELECTRONIC DRAWING FILES AS PROVIDED ON 03/25/2022. SURVEY INFORMATION HAS NOT BEEN FIELD VERIFIED BY GOLDSMITH.

JOB NO. 22038

SHEET

TESC PLAN FOR

DOROTHY STRAND

STRAND PROPERTY 6950 SE MAKER ST., CITY OF MERCER ISLAND

KING COUNTY, WASHINGTON

STORM & ROOF DRAINAGE SYSTEM STRUCTURE TABLE

NAME	ТҮРЕ	VERTICAL	I.E. IN / OUT
CB # 1	TYPE 1, EXISTING	RIM = 213.66	12" SD D.I. IN (E) = 211.3 12" CONC. D.I. OUT (W) = 211.2
CB # 2	TYPE 1, EXISTING TIE INTO	RIM = 223.78	12" EX. SD D.I. IN (E) = 222.1 6" SD PVC IN (N) = 222.0 12" SD D.I. OUT (W) = 222.0
CB # 3	TYPE 1, W/ OIL& WATER SPERATOR	RIM = 230.77	4" RD PVC IN (N) = 224.9 4" TRENCH RD PCV IN (E) = 224.9 6" SD PVC OUT (S) = 224.9
TRENCH DRAIN	TRENCH DRAIN	RIM = 226.44	4" TRENCH RD PCV OUT (W) = 225.6
Х-СВ	ТҮРЕ І СВ	RIM = 230.98	12" PVC IN (E) = 229.4 12" EX. SD D.I. OUT (W) = 229.4
YD # 1	YARD DRAIN	RIM = 230.68	4" RD PVC IN (E) = 227.2 4" RD PVC OUT (S) = 227.2
YD # 2	YARD DRAIN	RIM = 233.08	4" RD PVC IN (S) = 230.5 4" RD PVC OUT (W) = 230.5

STORM & ROOF DRAINAGE SYSTEM PIPE TABLE

PIPE	SIZE	LENGTH	PIPE INFORMATION
1	12"	40 LF	SD D.I. @ 27.09%
2	6"	29 LF	SD PVC @ 9.97%
3	4"	50 LF	RD PVC @ 4.68%
4	4"	44 LF	RD PVC @ 7.46%
5	4"	8 LF	TRENCH RD PCV @ 8.91%
6	12"	53 LF	EX. SD D.I. @ 13.87%
7	4"	47 LF	RD PVC @ 5.75%

SANITARY SEWER SYSTEM STRUCTURE TABLE

NAME	ТҮРЕ	VERTICAL	I.E. IN / OUT
EX-SSMH # 1	SSMH, EXISTING	RIM = 226.83	6" PVC IN (N) = 221.91 8" D.I. IN (E) = 221.33 8" D.I. OUT (W) = 221.33
HOUSE	LOWER LEVEL FF	RIM = 226.47	6" PVC OUT (S) = 222.86
SSCO # 1	CLEAN OUT W/ TRAFFIC RATED LID	RIM = 227.93	6" PVC IN (N) = 222.63 6" PVC OUT (SW) = 222.63
SSCO # 2	CLEAN OUT W/ TRAFFIC RATED LID	RIM = 228.70	6" PVC IN (NE) = 222.31 6" PVC OUT (S) = 222.31

SANITARY SEWER SYSTEM PIPE TABLE

PIPE	SIZE	LENGTH	PIPE INFORMATION
1	6"	12 LF	PVC @ 2.00%
2	6"	16 LF	PVC @ 2.00%
3	6"	20 LF	PVC @ 2.00%
	•		

NW $\frac{1}{4}$, SW $\frac{1}{4}$ SECTION 12, TOWNSHIP 24 N, RANGE 4 E, W.M. CITY OF MERCER ISLAND, KING COUNTY, WASHINGTON

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NOTES

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SCALE: 1" = 10

- 1. DEMOLISH EXISTING HOUSE, PATIO, DECK, WALKWAY, WALL AND DRIVEWAY PRIOR TO PROPOSED CONSTRUCTION.
- 2. SITE AREA: 8,750 SF (0.20 AC)

IMPERVIOUS CALCULATIONS: ON-SITE		
HOUSE	=	1,888 SF
CONCRETE DRIVEWAY	=	804 SF
DECK	=	61 SF
STAIRS	=	13 SF
RETAINING WALLS	=	49 SF
NEW AND REPLACED SUBTOTAL	=	2,815 SF
EX. ROCKERY / WALL	=	736 SF
TOTAL IMPERVIOUS	=	3,537 SF (40% OF LOT ARE
OFF-SITE		
ASPHALT DRIVEWAY	=	485 SF
TOTAL PROJECT IMPERVIOUS	=	4,022 SF
FARTHWORK OUANTITY:		

- CUT = 662.75 CYFILL = 19.92 CY
- ROOF DRAIN PIPES SHALL MEET MATERIAL STANDARDS FOR SDR35 FOR PVC PIPE AND N-12 FOR SMOOTH-BORE HDPE PIPE.
- 6. FOOTING DRAIN PIPES SHALL MEET MATERIAL STANDARDS FOR D2729 FOR PVC, WITH THE PERFORATIONS DIRECTED DOWNWARD.
- 7. CONTRACTOR SHALL COMPLY WITH THE CITY OF MERCER ISLAND "STORM DRAINAGE REQUIREMENTS" FOR ALL NEW CONSTRUCTION OF DRAINAGE SYSTEM IMPROVEMENTS. INCLUDING ROOF DRAINS, FOOTING DRAINS, AND DRIVEWAY/PARKING AREA DRAINS.
- 8. CONTRACTOR TO COORDINATE EXACT LOCATION OF THE NEW METER WITH THE CITY'S WATER DEPARTMENT DURING CONSTRUCTION.
- THE TV INSPECTION OF THE EXISTING SIDE SEWER TO THE CITY SEWER MAIN ON SE MAKER ST IS 9 REQUIRED PRIOR TO ANY WORK RELATED TO THE SIDE SEWER. IF THE RESULT OF THE TV INSPECTION IS NOT IN SATISFACTORY CONDITION, AS DETERMINED BY THE CITY OF MERCER ISLAND INSPECTOR, THE REPLACEMENT OF THE EXISTING SIDE SEWER IS REQUIRED.

LEGEND (DEVELOPED)

4 4 8 	PROPOSED CONCRETE
	PROPOSED ASPHALT PAVEMENT
	TRENCH RESTORATION
	PROPOSED WALL TO BE REMOVED
<u></u>	

	PROPOSED SANITARY SIDE SEWER
SCO •	PROPOSED SANITARY SIDE SEWER CLEANOU
W	PROPOSED WATER SERVICE LINE
	PROPOSED WATER METER
YD ∅	PROPOSED YARD DRAIN
RD	PROPOSED ROOF DRAIN PIPE
DCO •	PROPOSED ROOF DRAIN CLEANOUT
FD	PROPOSED FOOTING DRAIN PIPE
DCO •	PROPOSED FOOTING DRAIN PIPE
DS o	PROPOSED DOWNSPOUT
230	PROPOSED CONTOUR LINE
	PROPOSED CATCH BASIN, TYPE I

+

FIRE PROTECTION NOTES:

FIRE SPRIKLER REQUIRED

BUILDER AND FIRE PROTECTION DESIGNER TO CONFIRM METER AND WATER SERVICE SIZE PRIOR TO CONSTRUCTION OF WATER SERVICE

SURVEY NOTE

EXISTING SURVEY INFORMATION SHOWN HEREON IS BASED ON SURVEY BY TERRANE SURVEYING & MAPPING, AND ELECTRONIC DRAWING FILES AS PROVIDED ON 03/25/2022. SURVEY INFORMATION HAS NOT BEEN FIELD VERIFIED BY GOLDSMITH. TEMPORARY SHORING

TEMPORARY SHORING SHALL BE INSTALLED AT THE DIRECTION OF THE PROJECT GEOTECHNICAL ENGINEER.

SOIL AMENDMENT NOTE

STOCKPILE AND COMPOST AMENDED DISTURBED LANDSCAPED AREAS PER CITY OF MERCER ISLAND POST-CONSTRUCTION SOIL MANAGEMENT

TOP SOIL LAYER SHALL HAVE A MINIMUM DEPTH OF 8" AND A ORGANIC CONTENT OF 5% IN TURF AREAS AND 10% IN PLANTER BEDS. SUBSOIL BELOW TOP SOIL LAYER SHALL BE SCARIFIED TO A DEPTH OF 4" BELOW TOPSOIL LAYER. PLANTER BEDS SHALL BE MULCH WITH 2" OF ORGANIC MATERIAL.

THE LAWN AND LANDSCAPE AREAS ARE REQUIRED TO PROVIDE POST-CONSTRUCTION SOIL QUALITY AND DEPTH IN ACCORDANCE WITH BMP T5.13. THE PROJECT CIVIL ENGINEER MUST PROVIDE A LETTER OF CERTIFICATION TO ENSURE THAT THE LAWN AND LANDSCAPE AREAS ARE MEETING THE POST-CONSTRUCTION SOIL QUALITY AND DEPTH REQUIREMENTS SPECIFIED ON THE APPROVED PLAN SET PRIOR TO FINAL INSPECTION OF THE PROJECT.

JOB NO. 22038

C-2

SHEET

-

DOROTHY STRAND

GRADING, DRAINAGE AND UTILITY PLAN

FOR

STRAND PROPERTY

KING COUNTY, WASHINGTON

NW $\frac{1}{4}$, SW $\frac{1}{4}$ SECTION 12, TOWNSHIP 24 N, RANGE 4 E, W.M. CITY OF MERCER ISLAND, KING COUNTY, WASHINGTON

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NOTE: THIS DETAIL IS ONLY SCHEMATIC. ANY INSERT IS ALLOWED THAT HAS A MIN. 0.5 C.F. OF STORAGE, THE MEANS TO DEWATER THE STORED SEDIMENT, AN OVERFLOW, AND CAN BE EASILY MAINTAINED.

MAINTENANCE STANDARDS

I. ANY ACCUMULATED SEDIMENT ON OR AROUND THE FILTER FABRIC PROTECTION SHALL BE REMOVED IMMEDIATELY. SEDIMENT SHALL NOT BE REMOVED WITH WATER, AN ALL SEDIMENT MUST BE DISPOSED OF AS FILL ON-SITE OR HAULED OFF-SITE.

2. ANY SEDIMENT IN THE CATCH BASIN INSERT SHALL BE REMOVED WHEN THE SEDIMENT HAS FILLED ONE-THIRD OF THE AVAILABLE STORAGE. THE FILTER MEDIA FOR THE INSERT SHALL BE CLEANED OR REPLACED AT LEAST MONTHLY.

3. REGULAR MAINTENANCE IS CRITICAL FOR BOTH FORMS OF CATCH BASIN PROTECTION. UNLIKE MANY FORMS OF PROTECTION THAT FAIL GRADUALLY, CATCH BASIN PROTECTION WILL FAIL SUDDENLY AND COMPLETELY IF NOT MAINTAINED PROPERLY.

CATCH BASIN INSERT DETAIL

NTS

PROPOSE RESIDENTIAL STORM DRAIN CONNECTION PROFILE STA. -0+10.00 TO STA. 1+40.00 1" =10.00' HORIZ.

1"=5.00' VERT.

NW $\frac{1}{4}$, SW $\frac{1}{4}$ SECTION 12, TOWNSHIP 24 N, RANGE 4 E, W.M. CITY OF MERCER ISLAND, KING COUNTY, WASHINGTON

MAINTENANCE STANDARDS

I. ANY DAMAGE SHALL BE REPAIRED IMMEDIATELY.

2. IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT TRAP OR POND.

3. IT IS IMPORTANT TO CHECK THE UPHILL SIDE OF THE FENCE FOR SIGNS OF THE FENCE CLOGGING AND ACTING AS A BARRIER TO FLOW AND THEN CAUSING CHANNELIZATION OF FLOWS PARALLELED TO THE FENCE. IF THIS OCCURS, REPLACE THE FENCE AND/OR REMOVE THE TRAPPED SEDIMENT. 4. SEDIMENT MUST BE REMOVED WHEN THE SEDIMENT IS 6" HIGH.

5. IF THE FILTER FABRIC HAS DETERIORATED DUE TO ULTRAVIOLET BREAKDOWN, IT SHALL BE REPLACED.

STA. 0+40.00 TO STA. 1+20.00 1" =10.00' HORIZ. 1"=5.00' VERT.

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STANDARD TESC PLAN NOTES:

- 1. APPROVAL OF THIS EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
- 2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.
- 3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE APPLICANT/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
- 4. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
- 5. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM **REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE** CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.
- 6. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
- 7. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A MAJOR STORM EVENT.
- 8. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A TRAPPED CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- 9. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

JOB NO. 22038

SHEET

DOROTHY STRAND STANDARD DETAILS AND STORM DRAIN PROFILES FOR STRAND PROPERTY 6950 SE MAKER ST., CITY OF MERCER ISLAND

<u>NOTES</u>

5' MAX

- 1. MAX. OUTLET PIPE DIAMETER IS 8 INCHES. VERTICAL RISER SECTION SHALL BE ALIGNED PLUMB VERTICALLY. HORIZONTAL RISER SECTION SHALL MATCH OUTLET PIPE SLOPE. 2. ALL METAL PARTS AND SURFACES MUST BE CORROSION
- RESISTANT. STEEL HARDWARE SHALL BE GALVANIZED. PIPES SHALL BE PVC. COMPLETE CORROSION PROTECTION MUST BE ASSURED. 3. APPLY NON-SHRINK GROUT TO INSIDE AND OUTSIDE OF ALL
- JOINTS, RINGS, RISERS AND FRAMES.
- 4. SLIP SMOOTH-BORE HORIZONTAL LEG OF FLOW CONTROL TEE INSIDE CARRIER PIPE.

5. NO FLOW CONTROL JOINT OUTSIDE OF STRUCTURE.

C-4

PLAN NOTES:

1. THIS PROJECT SHALL BE DESIGNED, ENGINEERED, + CONSTRUCTED IN FULL

COMPLIANCE W/ ALL CODES + REGULATIONS.

2. ALL EXTERIOR WALLS SHALL BE 2x6 UNO.

3. ALL INTERIOR WALLS SHALL BE 2x4 UNO. 4. ALL HANDRAILS SHALL BE LOCATED @ 36" ABOVE STAIR NOSING WITH A

GRASP DIMENSION BETWEEN 11/4" - 2".

5. ALL HANDRAILS SHALL BE CONTINUOUS OR TERMINATE AT NEWEL POST. 6. ALL GUARDRAILS SHALL BE 36" ABOVE FINISHED FLOOR AND DESIGNED SUCH THAT THE MAXIMUM OPENING WILL NOT ALLOW PASSAGE OF A 4"

SPHERE. 7. ALL GUARDRAILS SHALL BE DESIGNED TO RESIST A 200LB CONCENTRATED LOAD AT THE TOP RAIL AND 50 PSF ON ALL GUARDRAIL INFILL COMPONENTS.

8. 5/8" TYPE 'X' GWB AT ALL GARAGE WALLS AND CEILING AS WELL AS ANY POSTS + BEAMS.

9. ACCESSIBLE AREA UNDER STAIR SHALL BE 1/2" GWB MINIMUM.

10. PROVIDE A PROGRAMMABLE THERMOSTAT FOR THE PRIMARY SPACE CONDITIONING SYSTEM WITHIN EACH DWELLING UNIT PER SEC R403.1.1. 11. A MINIMUM OF 75 PERCENT OF PERMANENTLY INSTALLED LAMPS IN

LIGHTING FIXTURES SHALL BE HIGH-EFFICACY LAMPS. 12. ALL SHOWERHEADS + KITCHEN SINK FAUCETS INSTALLED IN THE UNIT SHALL BE RATED AT 1.75 GPM OR LESS. ALL OTHER LAVATORY FAUCETS

SHALL BE RATED AT 1.0 GPM OR LESS. 13. ALL EXHAUST AIR SHALL VENT DIRECTLY TO THE EXTERIOR OF THE BUILDING PER M1501.1 AND M1506.2.

14. ALL NEW STAIRS SHALL MEET THE FOLLOWING REQUIREMENTS;

A. MINIMUM 36" WIDTH.

B. MAXIMUM 7 3/4" RISER, MINIMUM 10" TREAD.

C. MINIMUM 6'-8" HEAD ROOM D. MINIUM LANDING LENGTH 36"

15. CONTRACTOR TO COMPLETE AND POST 'INSULATION CERTIFICATE FOR RESIDENTIAL CONSTRUCTION' FORM WITHIN 3' OF ELECTRICAL PANEL PRIOR

TO FINAL INSPECTION. 16. WINDOW AND DOOR HEADERS SHALL BE INSULATED WITH A MINIMUM R-10 INSULATION.

17. SHOULD AN AIR LEAKAGE TEST BE CONDUCTED, A WRITTEN REPORT OF THE AIR LEAKAGE TEST RESULTS SHALL BE SIGNED BY THE TESTING PARTY AND PROVIDED TO THE BUILDING INSPECTOR PRIOR TO CALL FOR FINAL INSPECTION. AIR LEAKAGE SHALL NOT EXCEED 5 AIR CHANGES/HOUR. 18. WHOLE HOUSE VENTILATION INTEGRATED WITH FORCED-AIR SYSTEM PER SRC M1507.3.5 AND SHALL RUN INTERMITTENTLY.

WSEC 2018 NOTES:

1. THIS PROJECT IS ELIGIBLE AND COMPLIANT W/ WSEC 2018 PRESCRIPTIVE METHOD.

2. INSULATION VALUES SHALL BE AS FOLLOWS:

A. ALL VERTICAL GLAZING SHALL BE 0.30 U-FACTOR MAX.

B. ALL OVERHEAD GLAZING SHALL BE 0.50 U-FACTOR MAX.

C. ALL EXTERIOR DOORS (INCLUDING DOORS FROM CONDITIONED SPACE TO UNCONDITIONED SPACE) SHALL BE 0.20 U-FACTOR MIN. D. ALL CEILINGS OVER CONDITIONED SPACE SHALL RECEIVE R-49 BLOWN-

IN INSULATION MIN. E. ALL VAULTED CEILINGS SHALL RECEIVE R-38 BATT INSULATION MIN. F. ALL ABOVE-GRADE EXTERIOR WALLS SHALL RECEIVE R-21 BATT

INSULATION MIN. G. ALL BELOW-GRADE EXTERIOR WALLS SHALL RECEIVE R-21 BATT

INSULATION MIN @ INTERIOR FRAMED WALL. H. ALL FLOORS OVER UNCONDITIONED SPACE SHALL RECEIVE R-30 BATT INSULATION MIN.

ALL SLAB-ON-GRADE WITHIN CONDITIONED SPACE SHALL RECEIVE R-10 RIGID INSULATION WITHIN 24" OF SLAB PERIMETER. J. ALL HEADERS @ EXTERIOR WALLS SHALL RECEIVE R-10 RIGID

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REQUIREMENTS. 4. PROVIDE 100 CFM INTERMITTENTLY OPERATING POINT-OF-USE

VENTILATION @ KITCHEN. 5. PROVIDE 50 CFM INTERMITTENTLY OPERATING POINT-OF-USE VENTILATION

@ ALL BATHS + LAUNDRY. 6. NATURAL GAS, PROPANE OR OIL WATER HEATER SHALL HAVE A MINIMUM EF OF 0.91 (WSEC 406.2, CREDIT 5c).

7. AT CRAWLSPACES THE MIN NET AREA OF VENTILATION OPENINGS SHALL NOT BE LESS THAN 1 FT² FOR EACH 300 FT² OF UNDER-FLOOR AREA. ONE VENTILATION OPENING SHALL BE WITHIN 3'-0" OF EACH CORNER OF THE BUILDING AT CRAWLSPACE, EXCEPT ONE SIDE OF THE BUILDING SHALL BE PERMITTED TO HAVE NO VENTILATION OPENINGS, OR CRAWLSPACE SHALL

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9. AT LEAST ONE THERMOSTAT PER DWELLING UNIT SHALL BE CAPABLE OF CONTROLLING THE HEATING AND COOLING SYSTEM ON A DAILY SCHEDULE.

FLOOR AREAS:

LOT AREA:	8,750 FT ²
MAXIMUM ALLOWABLE GFA:	(40%) 3,500 FT ²
ADDITIONAL GFA FOR ADU:	(5%) 437.5 FT ²
TOTAL ALLOWABLE GFA W/ ADU:	(45%) 3,937.5 FT
MAIN RESIDENCE BASEMENT GFA:	[528 FT ²]
(INCLUDES STAIRS TO MAIN LEVEL; 81 FT ²)	
ELEVATOR SHAFT @ BASEMENT:	[20 FT ²]
GARAGE GFA:	[476 FT ²]
BASEMENT ADU GFA:	[586 FT ²]
BASEMENT SUBTOTAL:	[1,610 FT ²]
(937.5 FT ² EXCLUDED SEE BELOW):	672 FT ²
FIRST FLOOR GFA:	1,649 FT ²
(EXCLUDE STAIR PER 19.02.020.D.2.c):	(81 FT ²⁾
ELEVATOR SHAFT:	20 FT ²
SECOND FLOOR GFA:	1,529 FT ²
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SECOND FLOOR COVERED DECK GFA:	66 FT ²
TOTAL GROSS FLOOR AREA:	(44.9%) 3,936 FT ²

BASEMENT FLOOR EXCLUSION CALCS:

WALL SEGMENT	LENGTH	COVERAGE %	RESULT
A	35'	0%	O'
В	46'	59.37%	27'-3"
С	35'	60.42%	21'-1"
D	46'	100%	46'-0"
TOTALS	162′		94'-4"
		ç	94'-4" / 162' = 58.23%

PLAN NOTES:

1. THIS PROJECT SHALL BE DESIGNED, ENGINEERED, + CONSTRUCTED IN FULL

COMPLIANCE W/ ALL CODES + REGULATIONS.

2. ALL EXTERIOR WALLS SHALL BE 2x6 UNO.

3. ALL INTERIOR WALLS SHALL BE 2x4 UNO. 4. ALL HANDRAILS SHALL BE LOCATED @ 36" ABOVE STAIR NOSING WITH A

GRASP DIMENSION BETWEEN 11/4" - 2".

5. ALL HANDRAILS SHALL BE CONTINUOUS OR TERMINATE AT NEWEL POST. 6. ALL GUARDRAILS SHALL BE 36" ABOVE FINISHED FLOOR AND DESIGNED SUCH THAT THE MAXIMUM OPENING WILL NOT ALLOW PASSAGE OF A 4"

SPHERE. 7. ALL GUARDRAILS SHALL BE DESIGNED TO RESIST A 200LB CONCENTRATED LOAD AT THE TOP RAIL AND 50 PSF ON ALL GUARDRAIL INFILL COMPONENTS.

8. 5/8" TYPE 'X' GWB AT ALL GARAGE WALLS AND CEILING AS WELL AS ANY POSTS + BEAMS.

9. ACCESSIBLE AREA UNDER STAIR SHALL BE 1/2" GWB MINIMUM.

10. PROVIDE A PROGRAMMABLE THERMOSTAT FOR THE PRIMARY SPACE CONDITIONING SYSTEM WITHIN EACH DWELLING UNIT PER SEC R403.1.1. 11. A MINIMUM OF 75 PERCENT OF PERMANENTLY INSTALLED LAMPS IN

LIGHTING FIXTURES SHALL BE HIGH-EFFICACY LAMPS. 12. ALL SHOWERHEADS + KITCHEN SINK FAUCETS INSTALLED IN THE UNIT SHALL BE RATED AT 1.75 GPM OR LESS. ALL OTHER LAVATORY FAUCETS

SHALL BE RATED AT 1.0 GPM OR LESS. 13. ALL EXHAUST AIR SHALL VENT DIRECTLY TO THE EXTERIOR OF THE BUILDING PER M1501.1 AND M1506.2.

14. ALL NEW STAIRS SHALL MEET THE FOLLOWING REQUIREMENTS;

A. MINIMUM 36" WIDTH.

B. MAXIMUM 7 3/4" RISER, MINIMUM 10" TREAD.

C. MINIMUM 6'-8" HEAD ROOM D. MINIUM LANDING LENGTH 36"

15. CONTRACTOR TO COMPLETE AND POST 'INSULATION CERTIFICATE FOR RESIDENTIAL CONSTRUCTION' FORM WITHIN 3' OF ELECTRICAL PANEL PRIOR

TO FINAL INSPECTION. 16. WINDOW AND DOOR HEADERS SHALL BE INSULATED WITH A MINIMUM R-10 INSULATION.

17. SHOULD AN AIR LEAKAGE TEST BE CONDUCTED, A WRITTEN REPORT OF THE AIR LEAKAGE TEST RESULTS SHALL BE SIGNED BY THE TESTING PARTY AND PROVIDED TO THE BUILDING INSPECTOR PRIOR TO CALL FOR FINAL INSPECTION. AIR LEAKAGE SHALL NOT EXCEED 5 AIR CHANGES/HOUR. 18. WHOLE HOUSE VENTILATION INTEGRATED WITH FORCED-AIR SYSTEM PER SRC M1507.3.5 AND SHALL RUN INTERMITTENTLY.

WSEC 2018 NOTES:

1. THIS PROJECT IS ELIGIBLE AND COMPLIANT W/ WSEC 2018 PRESCRIPTIVE METHOD.

2. INSULATION VALUES SHALL BE AS FOLLOWS:

A. ALL VERTICAL GLAZING SHALL BE 0.30 U-FACTOR MAX.

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C. ALL EXTERIOR DOORS (INCLUDING DOORS FROM CONDITIONED SPACE TO UNCONDITIONED SPACE) SHALL BE 0.20 U-FACTOR MIN. D. ALL CEILINGS OVER CONDITIONED SPACE SHALL RECEIVE R-49 BLOWN-

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PERMIT CORRECTIONS 20 FEBRUARY 2023 PERMIT CORRECTIONS 2 JUNE 2023

MAKERAVE AUTHORED: 8/25/23 00662

ROOF NOTES:

1. CHIMNEY SHALL EXTEND A MIN OF 2'-0" ABV ROOF OR PARAPET WITHIN 10'-0" RADIUS OF CHIMNEY. PROVIDE APPROVED SPARK ARRESTOR @ ALL CHIMNEY CAPS. ALL ARCHITECTURAL FEATURES MUST BE PERMITTED BY FLU + SPARK ARRESTOR MFR APPROVAL.

2. COORDINATE DOWNSPOUT LOCATION W/ JEFFREY ALMETER, INC. PRIOR TO INSTALLATION. 3. ALL VENTS SHALL BE LOCATED AWAY FROM VISIBILITY @ PUBLIC RIGHT-

OF-WAY. 4. TRUSS MANUFACTURERS TO PROVIDE TRUSS SHOP DRAWINGS TO JEFFREY ALMETER FOR DESIGN APPROVAL A MINIMUM OF 10 BUSINESS DAYS PRIOR TO TRUSS MANUFACTURING.

WSEC 2018 NOTES:

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- 2. INSULATION VALUES SHALL BE AS FOLLOWS: A. ALL VERTICAL GLAZING SHALL BE 0.30 U-FACTOR MAX.
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- IN INSULATION MIN. E. ALL VAULTED CEILINGS SHALL RECEIVE R-38 BATT INSULATION MIN. F. ALL ABOVE-GRADE EXTERIOR WALLS SHALL RECEIVE R-21 BATT
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- INSULATION MIN @ INTERIOR FRAMED WALL. H. ALL FLOORS OVER UNCONDITIONED SPACE SHALL RECEIVE R-30 BATT
- INSULATION MIN. I. ALL SLAB-ON-GRADE WITHIN CONDITIONED SPACE SHALL RECEIVE R-10
- RIGID INSULATION WITHIN 24" OF SLAB PERIMETER. J. ALL HEADERS @ EXTERIOR WALLS SHALL RECEIVE R-10 RIGID INSULATION @ INTERIOR SIDE OF WALL.
- 3. RE: STRUCTURAL DRAWINGS FOR ALL FRAMING COMPLIANCE REQUIREMENTS.
- 4. PROVIDE 100 CFM INTERMITTENTLY OPERATING POINT-OF-USE VENTILATION @ KITCHEN.
- 5. PROVIDE 50 CFM INTERMITTENTLY OPERATING POINT-OF-USE VENTILATION @ ALL BATHS + LAUNDRY.
- 6. NATURAL GAS, PROPANE OR OIL WATER HEATER SHALL HAVE A MINIMUM EF OF 0.91 (WSEC 406.2, CREDIT 5c).
- 7. AT CRAWLSPACES THE MIN NET AREA OF VENTILATION OPENINGS SHALL NOT BE LESS THAN 1 FT2 FOR EACH 300 FT2 OF UNDER-FLOOR AREA. ONE VENTILATION OPENING SHALL BE WITHIN 3'-0" OF EACH CORNER OF THE BUILDING AT CRAWLSPACE, EXCEPT ONE SIDE OF THE BUILDING SHALL BE PERMITTED TO HAVE NO VENTILATION OPENINGS, OR CRAWLSPACE SHALL BE MECHANICALLY VENTED.
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SHEET METAL OVER _ ENTIRE CURB

LAP WP MEMBRANE OVER WRB

SIDING PER ELEVATIONS -----

WATERPROOF MEMBRANE -

RELEASE 21 MARCH 2022 PERMIT CORRECTIONS 20 FEBRUARY 2023 PERMIT CORRECTIONS 2 JUNE 2023

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GUARD SYSTEM AND ATTACHMENTS REQUIRED BY THE CITY PRIOR TO FABRICATION OF THE COMPONENTS.

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MAKERAVE AUTHORED: 8/25/23 00665

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DOOR SCHEDULE: (ALL GLAZING TO BE NFRC CERTIFIED)

DOOR NO.	WIDTH	HEIGHT	TYPE	MATERIAL	FINISH	HARDWARE	NOTES / REMARKS
001A	3'-0"	7'-0"	ENTRY	CLAD WOOD	PAINTED	TBD	WITH 2'-0" SIDELIGHT
001B	2'-8"	7'-0"	SWING	WOOD	PAINTED	TBD	
001C	3'-0"	7'-0"	SWING	WOOD	PAINTED	TBD	20-MIN RATED, AUTO-CLOSE
001D	2'-8"	7'-0"	SWING	WOOD	PAINTED	TBD	LOCKING, ELEVATOR
002A	18'-0"	7'-0"	OVERHEAD	WOOD	PAINTED	TBD	
002B	6'-0"	7'-0"	SWING	WOOD	PAINTED	TBD	
003A	3'-0"	7'-0"	SWING	WOOD	PAINTED	TBD	20 MIN RATED, AUTO-CLOSE
004A	2'-8"	7'-0"	SWING	WOOD	PAINTED	TBD	LOCKING, 1-HR RATED
005A	3'-0"	7'-0"	SWING	WOOD	PAINTED	TBD	LOCKING, 1-HR RATED
005B	4'-0"	7'-0"	SWING	WOOD	PAINTED	TBD	
005C	9'-0"	7'-0"	BI-FOLD	CLAD WOOD	PAINTED	TBD	3-PANEL
005C	9'-0"	8'-0"	BI-FOLD	CLAD WOOD	PAINTED	TBD	3-PANEL, SAFETY GLAZING
006A	2'-8"	7'-0"	SWING	WOOD	PAINTED	TBD	
101A	2'-4"	7'-0"	SWING	WOOD	PAINTED	TBD	
101B	2'-8"	7'-0"	SWING	WOOD	PAINTED	TBD	ELEVATOR, LOCKING
102A	5'-0"	7'-0"	SWING	WOOD	PAINTED	TBD	PAIR
102B	8'-0"	7'-0"	SLIDER	CLAD WOOD	PAINTED	TBD	LOCKING, SAFETY GLAZING
102C	2'-6"	7'-0"	SWING	WOOD	PAINTED	TBD	
103A	2'-6"	7'-0"	SWING	WOOD	PAINTED	TBD	
104A	2'-4"	7'-0"	SWING	WOOD	PAINTED	TBD	
105A	2'-6"	7'-0"	SWING	WOOD	PAINTED	TBD	
105B	3'-6"	7'-0"	BYPASS	WOOD	PAINTED	TBD	CLOSET
106A	2'-6"	7'-0"	SWING	WOOD	PAINTED	TBD	
106B	4'-0"	7'-0"	BI-FOLD	WOOD	PAINTED	TBD	
106C	2'-6"	7'-0"	SWING	WOOD	PAINTED	TBD	
107A	3'-0"	7'-0"	POCKET	WOOD	PAINTED	TBD	
108A	2'-6"	7'-0"	SWING	WOOD	PAINTED	TBD	
108B	2'-6"	7'-0"	SWING	WOOD	PAINTED	TBD	
109A	2'-6"	7'-0"	SWING	WOOD	PAINTED	TBD	
109B	5'-0"	7'-0"	BYPASS	WOOD	PAINTED	TBD	CLOSET
110A	2'-6"	7'-0"	SWING	WOOD	PAINTED	TBD	
110B	2'-6"	7'-0"	SWING	WOOD	PAINTED	TBD	
111A	2'-6"	7'-0"	SWING	WOOD	PAINTED	TBD	
111B	6'-0"	8'-0"	SLIDER	CLAD WOOD	PAINTED	TBD	2-PANEL, WITH SCREEN
111C	5'-0"	7'-0"	BYPASS	WOOD	PAINTED	TBD	CLOSET
202A	12'-0"	8'-0"	BI-FOLD	CLAD WOOD	PAINTED	TBD	4-PANEL, SAFETY GLAZING
202B	2'-8"	7'-8"	SWING	WOOD/GLASS	PAINTED	TBD	SAFETY GLAZING
204A	2'-8"	7'-0"	SWING	WOOD	PAINTED	TBD	ELEVATOR, LOCKING
204A	16'-4"	8'-0"	BI-FOLD	CLAD WOOD	PAINTED	TBD	6-PANEL, SAFETY GLAZING
204B	11 ^{1/2} "	7'-0"	SWING	WOOD	PAINTED	TBD	
204B	2'-6"	7'-0"	SWING	WOOD	PAINTED	TBD	
206A	2'-6"	7'-0"	SWING	WOOD	PAINTED	TBD	
207A	2'-4"	7'-0"	POCKET	WOOD	PAINTED	TBD	
					•		

WINDOW SCHEDULE: (ALL GLAZING TO BE NFRC CERTIFIED)

WINDOW NO.	WIDTH	HEIGHT	HEADER	TYPE	MATERIAL	FINISH	NOTES / REMARKS
102A	9'-0"	6'-0"	8'-0"	CASEMENT	CLAD WOOD	PAINTED	TRIPLE, EGRESS
103A	3'-0"	6'-0"	8'-0"	CASEMENT	CLAD WOOD	PAINTED	
103B	6'-0"	6'-0"	8'-0"	CASEMENT	CLAD WOOD	PAINTED	PAIR
103C	3'-0"	6'-0"	8'-0"	CASEMENT	CLAD WOOD	PAINTED	
103D	2'-0"	2'-0"	8'-0"	CASEMENT	CLAD WOOD	PAINTED	
105A	9'-0"	6'-0"	8'-0"	CASEMENT	CLAD WOOD	PAINTED	TRIPLE, EGRESS
106A	6'-0"	5'-0"	8'-0"	CASEMENT	CLAD WOOD	PAINTED	PAIR
108A	2'-0"	2'-0"	7'-0"	CASEMENT	CLAD WOOD	PAINTED	
109A	6'-0"	6'-0"	8'-0"	CASEMENT	CLAD WOOD	PAINTED	PAIR, EGRESS
111A	6'-0"	6'-0"	8'-0"	CASEMENT	CLAD WOOD	PAINTED	PAIR
202A	3'-0"	6'-0"	8'-0"	CASEMENT	CLAD WOOD	PAINTED	
202B	5'-0"	6'-0"	8'-0"	CASEMENT	CLAD WOOD	PAINTED	PAIR
205A	4'-0"	5'-0"	8'-0"	FIXED	CLAD WOOD	PAINTED	
206A	2'-0"	2'-0"	7'-0"	CASEMENT	CLAD WOOD	PAINTED	

NANAWALL SYSTEM CPD INFO

с	PD #	U-factor	r SHGC VT Condensation Resistance Air Leakage		Ventilatio Rating (Standard Screen)	n Ve d (E	ntilation Rating nhanced Screen)				
NAN-M-1-0	03122-00001	0.30	0.21	0.39	59						
Group ID	Manuf	acturer Pr	oduct C	ode	Frame/Sa Type	sh	Glazing Layers	Low-E	Gap Widths	Spacer	G
1	"Outswing-Flo 165 / Arg / Cle	oor Mounte ear - 1"" (1/	d-Flush /4""-5/32	Sill: SK "")"	(N WA/WA		2	0.019(2)	0.625	TP-D	Fill 1: ARG/A

PELLA SLIDING DOOR CPD INFO

с	PD #	U-factor	SHGC	νт	Condensation Resistance	Air Leakage	Ventilatio Rating (Standar Screen	on \ rd (/entilation Rating Enhanced Screen)				Close
PEL-N-237 00001	7-00945-	0.28	0.17	0.39	57								
Group ID	Manufacturer Product Code		Frame/Sa Type	sh Glazing Layers	Low-E	Gap Widths	Spacer	Gap Fill	Grid	Divider	Tint		
1	"Pine - 3mm 366 Arg 3mm - 13/16"""			WA/WA	2	0.02(2)	0.58	SS-D	Fill 1: ARG/AIR(90/10)	N	-	CL	

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RELEASE 21 MARCH 2022 PERMIT CORRECTIONS 20 FEBRUARY 2023 PERMIT CORRECTIONS 2 JUNE 2023

SUNSHADE MOUNTING OPTIONS	
SURFACE MOUNT BOLTED / STANDARD BRACKET	
SURFACE MOUNT BOLTED / EXTENDED BRACKET MINIMUM 4 EA. 1/2" Ø BOLTS WITH MINIMUM PULL OUT STRENGTH TO SUPPORT SUNSHADE (BY OTHERS) CONCRETE, CONCRETE FILLED MASONRY BLOCK, WOOD OR STEEL STRUCTURAL FRAMING BRICK, COMPOSITE PANEL, OR OTHER EXTERIOR VENEER	
THROUGH-WALL BOLTED / STANDARD BRACKET	
THROUGH-WALL BOLTED / EXTENDED BRACKET MINIMUM 4 EA. 1/2" Ø BOLTS (BY OTHERS) WASHER PLATE (PROVIDED) CONCRETE, MASONRY BLOCK, WOOD OR STEEL FRAMED WALL MINIMUM 4 EA. 1/2" Ø BOLTS (PROVIDED) BRICK, COMPOSITE PANEL, OR OTHER EXTERIOR VENEER	
PROJECTCONTRACTOR266 W Mitchell Ave - Cincinnati, OH 45232 PH: (888) 568-8371 Fax: (888) 568-8370PH: (988) 568-8371 Fax: (988) 568-8370PH: (988) 568-8371 Fax: (98	¢
SUN SHADE DETAIL	

MAKER AVE 00667

SCALE: 1' = 1'-0"

STRUCTURAL NOTES:

<u>CODE:</u>

CODE: INTERNATIONAL BUILDING CODE 2018, SEATTLE BUILDING CODE 2018, ASCE/SEI 1-16 LOADS: ROOF LIVE(SNOW)= 25 PSF, FLOOR LIVE= 40 PSF, DECK LIVE= 60 PSF ROOF DEAD = 25 PSF (INCLUDE SOLAR PANEL), FLOOR DEAD = 12 PSF

ROOF DECK DEAD = 20 PSF SEIS: RISK CATEGORY 'II', DESIGN CATEGORY 'D', R= 6.5 (WOOD FRAME WALL SHT'G W/ STRUCTURAL PANELS) R= 5.0 (SPECIAL REINFORCED CONCRETE SHEAR WALLS)

 $S_8 = 1.414 \text{ g}, S_1 = 0.492 \text{ g}, F_a = 1.00, F_v = 1.808 S_{D8} = 0.943 \text{ g}, S_{D1} = 0.593 \text{ g}$ WIND: 110 MPH, EXPOSURE 'B', K zt = 1.38

FOUNDATIONS:

EXTEND FOOTINGS TO FIRM UNDISTURBED SOIL, ALLOWABLE BEARING CAPACITY OF 3,000 PSF. ALL EXTERIOR FOOTINGS SHALL EXTEND A MINIMUM OF 1'-6" BELOW ADJACENT EXTERIOR FINISH GRADE. USE ACTIVE EARTH PRESSURE 35 pcf (NORTH & WEST WALL) 55 psf (EAST WALL) FOR LATERAL EARTH PRESSURE AND SEISMIC INCREASE OF 9H (UNIFORM DISTRIBUTION) FOR CONCRETE WALL. SEE THE SOIL REPORT * JN 22001 FROM GEOTECH CONSULTANTS, INC (MARCH 21, 2022) FOR THE ADDITIONAL RECOMMENDATIONS OF SLAB ON GRADE, COMPACTION AND ETC.

CAST-IN-PLACE CONCRETE:

F'C=3,000 PSI @ 28 DAYS. MINIMUM 5-1/2 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE AND SHALL BE PROPORTIONED TO PRODUCE A SLUMP OF 5' OR LESS. MAXIMUM SIZED AGGREGATE IS 1-1/2 INCHES, CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH IBC SECTION 1905, 1906 ANDACI 301, INCULING TESTING PROCEDURES. ALL PHASES OF WORK PERTAINING TO THE CONCRETE CONSTRUCTION SHALL CONFORM TO THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE. ALL REINFORCING STEEL DOWELS ANCHOR BOLTS AND OTHER INSERTS SHALL BE SECURED IN POSITION PRIOR TO POURING CONC.

REINFORCING STEEL:

ALL REINFORCING STEEL SHALL BE PLACED IN CONFORMANCE WITH THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND THE MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION BY CRSI. DEFORMED REINFORCING STEEL BARS SHALL CONFORM TO ASTM GRADE 60. ALL REINFORCING BAR BENDS SHALL BE MADE COLD, WITH A MINIMUM RADIUS OF 6 BAR DIAMETERS (1'-1' MINIMUM), CORNER BARS (2'-0' BEND) SHALL BE PROVIDED FOR ALL HORIZONTAL REINFORCEMENT. LAP ALL BARS A MINIMUM OF 48 BAR DIAMETERS UNLESS NOTED OTHERWISE. UNLESS OTHERWISE NOTED ON THE DRAWINGS REINFORCING STEEL SHALL HAVE THE FOLLOWING MINIMUM COVER:

CONCRETE CAST AGAINST EARTH	3'
CONCRETE EXPOSED TO EARTH OR WEATHER:	11/2"
CONCRETE NOT EXPOSE TO EARTH OR WEATHER:	
11 BAR AND SMALLER	³ ⁄4"
SLAB-ON-GRADE (FROM TOP SURFACE)	11/2"

STRUCTURAL TIMBER:

ALL GRADES SHALL CONFORM TO UMPA GRADING RULES FOR WESTERN LUMBER, LATEST EDITION. PROVIDE CUT WASHERS UNDER ALL NUTS AND BOLTS BEARING AGAINST WOOD. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED. ALL STRUCTURAL LUMBER SHALL BE NOTED BELOW:

6x BEAM & POST, 2x6 STUDS, 2x8, 2x10 DOUGLAS-FIR / LARCH *2

INTERIOR 2x STUDS, LUMBER NOT NOTED

2x6 STUD WITH 1/2" PLYWOOD WALL SHT'G

HEM-FIR *2

MISCELLANEOUS HANGERS TO BE SIMPSON OR APPROVED EQUAL. ALL HANGERS SHALL BE FASTENED TO WOOD WITH MAXIMUM NAILS-ALL HOLES SHALL BE NAILED. ALL NAILS SHALL BE COMMON WIRE NAILS. PROVIDE NAILING SHALL BE IN ACCORDANCE WITH 'I.B.C. 2018' TABLE 2304.10.1 FASTENING SCHEDULE.

ROOF & FLOOR SHEATHING:

ROOF SHEATHING SHALL BE 5/ A.P.A. RATED SHEATHING. 5-PLY, SPAN RATING 32/16, INSTALLED LONG DIMENSION ACROSS SUPPORTS. PANEL END JOINTS SHALL OCCUR AT SUPPORTS. NAIL AT PANEL EDGES WITH 10d COMMON (=0.148 %21/2) @ 6 O.C. AND 12 O.C. AT INTERMEDIATE SUPPORTS. FLOOR SHEATHING SHALL BE 34" T&G SPAN RATING 40/20 WITH 10d COMMON @ 6" O.C. (EDGE) AND 10° O.C. (INTERM). USE 10 SCREWS (21/2" LONG) IN LIEU OF 10d COMMON NAILS AT FLOOR CONTRACTOR'S OPTION. INSTALL PLYWOOD CLIP AT 48 INCHES ON CENTER. BLOCKING IS REQ'D ALL PANEL EDGES.

ANCHOR BOLTS:

ANCHOR BOLTS TO BE A-307 OR BETTER. ANCHOR BOLTS INTO CONCRETE SHALL BE 5/9 WITH I INCHES OF EMBEDMENT AND SPACED NOT MORE THAN 4' APART. THERE SHALL BE A MINIMUM OF TWO BOLTS PER PIER WITH BOLT LOCATED NOT MORE THAN 12 INCHES OR NOT LESS THAN 4 INCHES FROM EACH END OF EACH PIER. A PROPERLY SIZED NUT WITH 3'X3'X'4' PLATE WASHER SHALL BE TIGHTENED ON EACH ANCHOR BOLT TO THE P.T. 2x6 SILL PLATE.

PLYWOOD OR OSB WEB JOISTS:

JOISTS ARE SHOWN ON PLANS A 'TJI' TO BE TRUS JOIST OR EQUAL. JOIST ASSEMBLY TO TESTED UNDER 'IBC 2018' TESTING PROCEDURES. COMPLETE JOIST DESIGNS BEARING THE STAMP OF A REGISTERED PROFESSIONAL ENGINEER TO BE SUBMITTED FOR REVIEW. JOIST MANUFACTURER SHALL PROVIDE ALL SPECIALTY ITEMS FOR A NORMAL AND COMPLETE INSTALLATION OF THE JOISTS. INSTALL DOUBLE JOISTS UNDER PARTITIONS EXTENDING ONE HALF OR MORE OF JOIST SPAN.

MacMILLAN PARALLAM (PSL):

PARALLAM SHOWN ON PLAN TO BE TRUS JOIST MacMILLAN'S PARALLAM 22E OR APPROVED EQUAL. OTHER THAN MacMILLAN'S PARALLAM 2.2E SHALL HAVE ICBO APPROVALS SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW. Fb=2,900 psi., Fv = 290 psi, Fc= 650 psi, E= 2,200,000 psi.

MICROLAM (LVL):

MICROLAM SHOWN ON PLAN TO BE ILEVEL TRUGG JOIGT MICROLAM 20E OR APPROVED EQUAL. OTHER THAN MICROLAM 2.0E SHALL HAVE ICBO APPROVALS SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW. Fb=2,600 psi., Fv = 285 psi, Fc= 750 psi, E= 2,000,000 psi.

GLUED-LAMINATED TIMBER

LAMINATED TIMBER SHALL BE DOUGLAS-FIR/LARCH KILN DRIED. STRESS GRADE COMBINATION 24F-V4 (Fb=2,400 PSI, Fv=165 PSI) FOR SIMPLE SPAN. A.I.T.C. CERTIFICATE OF CONFORMANCE REQUIRED. GLU-LAMS SHALL CONFORM TO A.I.T.C. STANDARDS 117. FABRICATOR SHALL SUBMIT DETAILS AND SPECIFICATIONS TO THE ENGINEER AND BUILDING DEPARTMENT FOR APPROVAL PRIOR TO FABRICATION.

STRUCTURAL STEEL:

WIDE FLANGE SHAPES TO BE ASTM A992, GRADE 50, Fy = 50 KSI. CHANNELS, ANGLES, AND PLATES TO BE ASTM A36, Fy = 36 KSI. HSS SECTIONS SHALL BE ASTM A500, GRADE B, Fy = 46 KSI WELD TO BE 3/16' MINIMUM CONTINUOUS FILLET, BY CERTIFIED WELDERS USING ETØXX ELECTRODES. ALL WELDS SHALL CONFORM TO THE LATEST EDITION OF AWS DI.I. BOLT SHALL BE BEARING TYPE CONNECTIONS USING A325-N BOLTS. ALL BOLTS SHALL BE INSTALLED WITH HARDEN WASHERS CONFORMING TO ASTM F-436 AND NUTS CONFORMING TO ASTM A-563. ALL STEELS EXPOSED TO WEATHER SHALL BE HOT DIP GALVANIZED. ALL STEEL NOT EXPOSED TO WEATHER SHALL BE SHOP PRIMED.

SPECIAL CONDITIONS:

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD. ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT OR ENGINEER. THE CONTRACTOR SHALL PROVIDED ADEQUATE SHORING AS REQUIRED UNTIL PERMANENT CONNECTIONS AND STIFFENING HAVE BEEN INSTALLED. THE CONTRACTOR SHALL VERIFY SIZE AND ALL LOCATIONS OF ALL OPENINGS IN THE FLOOR, ROOF, AND WALLS WITH ALL THE APPROPRIATE DRAWINGS. THE CONTRACTOR SHALL COORDINATE WITH THE BUILDING DEPARTMENT FOR ALL BUILDING DEPARTMENT REQUIRED INSPECTIONS. DO NOT SCALE THE DRAWINGS. THE DETAILS SHOWN ARE TYPICAL AND SHALL BE USED FOR LIKE OR SIMILAR CONDITIONS NOT SHOWN.

SPECIAL INSPECTIONS:

PROVIDE SPECIAL INSPECTIONS IN ACCORDANCE WITH CHAPTER IT OF 'IBC 2018' FOR FOLLOWING:

REINFORCING & ANCHOR BOLT PLACEMENT	PERIODIC 4
CONCRETE PLACEMENT	PERIODIC #
CURING & FORM WORK PROCEDURES	CONTINUOUS
EXPANSION BOLTS & INSERTS	PERIODIC IN
EPOXY GROUTED RODS & REBAR	PERIODIC IN CLEANLINES ALL INSTALL
A325-N BOLT CONNECTION	CONTINUOUS
SOIL COMPACTION	CONTINUOUS

TYPICAL EXTERIOR WALL CONSTRUCTION:

- 1. SHEATHING: 1/2" APA RATED SHEATHING, EXTERIOR GLUE, EXTERIOR SIDE OF WALL, PANELS ARE APPLIED WITH LONG DIMENSION ACROSS STUDS, ALL PANEL EDGES BLOCKED, NAILING: Ø.1314"x21/2" NAIL @ 6" O.C. : EDGES AND BOUNDARIES
- @131"\$x21/2" NAIL @ 12" O.C. : FIELD. 2. BOLTS AT P.T. 2x6 SILL PLATE TO CONCRETE WITH 5/4 A. BOLTS # 48' O.C.
- A. BOLTS TO BE PLACED 4' TO 12' FROM END OF EACH PLATE. ALL A. BOLTS SHALL BE SECURED WITH 3'x3'x14" PLATE WASHER
- 3. EXTERIOR STUD SHALL BE 2x6 DF *2
- 4. FASTEN DOUBLE PLATE TO JOIST OR BLOCKING ABOVE WITH Ø.148' 4x3' TOE NAIL @ 6' O.C.

SHEAR WALL SCHEDULE (12)									
MARK	APA RATED	NAIL SIZE & SPACING	STUD & BLOCKING SIZE AT	RIM JOIST OR BLK'G	2x PLATE ATTACHMENT	SILL PLATE ATTACHMENT		SHEAR CAPACITY	
	SHEATHING	AT ALL PANEL EDGES	ADJOINING PANEL EDGES	CONN. TO TOP PLATE		A.B. TO CONC. BELOW	SILL PLATE AT FDN.	<u>PLF</u>	
	(1) (3) (4)	(3)(4)	(2)(5)(10)	(6)(1)	NAILING TO WOOD DELOW	(8) (11) (13)	(9)	SEIS	WIND
ШG	15/32" ONE SIDE	Ø.148'\$ × 2 ¹ /2" = 6" O.C.	2x6 DF *2	CLIP @ 16" O.C.	Ø.148'¢ x 3 ¹ 4' @ 6' O.C.	⁵ % '♦ A.B. ● 48' O.C.	2x6 DF *2	310	435
W4	15/32" ONE SIDE	Ø.148°♦ x 2 ¹ ⁄2° @ 4° O.C.	2x6 DF *2	CLIP @ 16" O.C.	Ø.148'¢ x 3 ¹ 4' @ 4' O.C.	⁵ %'¢ A.B. @ 32' O.C.	2x6 DF *2	460	645
(113)	15/32" ONE SIDE	Ø.148' • x 2 ¹ / ₂ " • 3" O.C.	3x6 DF *2	CLIP @ 12" O.C.	Ø.148'¢ x 3½' € 3' O.C.	N/A	3x6 DF *2	600	840

$\overline{\mathbb{M}}$ <u>NOTES:</u>

1. 15/32" APA RATED SHEATHING (5-PLY \$ 32/16 SPAN RATING), PANELS ARE APPLIED WITH LONG DIMENSION ACROSS STUDS.

- 2. BLOCKING IS REQUIRED AT ALL PANEL EDGES.
- AS PERFORATED SHEAR WALLS REQUIRE SHEATHING ABOVE AND BELOW ALL OPENINGS.
- THE HOLDOWN DETAILS FOR ADDITIONAL INFORMATION.
- 5. INTERMEDIATE FRAMING TO BE WITH 2x MINIMUM MEMBERS. FIELD NAILING @148'\$x2¹/2' \$ 12' O.C.
- 1. FRAMING CLIPS: A35 OR LTP4 OR APPROVED EQUIVALENT.
- 10. AT ADJOINING PANEL EDGES USE A SINGLE 3x6 DF 12 STUD FOR 1121 SHEAR WALL. 12. SHEAR WALL SCHEDULE BASED ON 2018 IBC FOR DOUG-FIR LARCH FRAMING.

- DIC & PRIOR TO ALL CONCRETE POUR
- C & PRIOR TO ALL CONCRETE POUR
- C INCLUDING TORQUE TESTS
- C INCLUDING INSPECTION OF HOLE NESS & EMBEDMENT DEPTH PRIOR TO
- ALLATION

5. 8d COMMON: 0.1314 x21/2", 10d COMMON: 0.148 4x3", 16d COMMON: 0.161 4x31/2"

∽I' KEY

CONT

STOP REINF. I"

EA. SIDE OF JOINT

3. PROVIDE SHEAR WALL SHEATHING AND NAILING FOR THE ENTIRE LENGTH OF THE WALLS INDICATED ON THE PLANS. ENDS OF FULL HEIGHT WALLS ARE DESIGNED BY EXTERIOR OF THE BUILDING, CORRIDORS, WINDOWS, OR DOORWAYS OR AS DESIGNATED ON PLANS. SEE PLANS FOR HOLD-DOWN REQUIREMENTS. WALLS DESIGNATED

4. SHEATHING EDGE NAILING REQUIRED AT ALL HOLDOWN POST. EDGE NAILING MAY ALSO BE REQUIRED TO EACH STUD USED IN BUILT-UP HOLDOWN POST. REFER TO

6. BASED ON Ø.131 *x1 2 LONG NAILS USED TO ATTACH FRAMING CLIPS DIRECTLY TO FRAMING. USE Ø.131x2 2 NAILS WHERE INSTALLED OVER SHEATHING.

8. ANCHOR BOLTS SHALL BE PROVIDED WITH STEEL PLATE WASHER 1/4 'x3'x3'. EMBED ANCHOR BOLTS 1' MINIMUM INTO THE CONCRETE.

9. PRESSURE TREATED MATERIAL CAN CAUSE EXCESSIVE CORROSION IN THE FASTENERS. PROVIDE HOT-DIPPED GALVANIZED (ELECTRO-PLATING IS NOT ACCEPTABLE) NAILS AND CONNECTOR PLATES (FRAMING ANGLES, ETG.) FOR ALL CONNECTORS IN CONTACT WITH PRESSURE TREATED FRAMING MEMBERS.

IL CONTACT THE ENGINEER OF RECORD FOR ADHESIVE OR EXPENSION BOLT ALTERNATIVES TO CAST-IN-PLACE ANCHOR BOLTS. (SPECIAL INSPECTION WILL BE REQUIRED)

13. USE SIMPSON 🗞 O TITEN HD WITH STEEL PLATE WASHERS 1/4 x3 x3 EMBED 31/2 MINIMUM AT EXISTING CONC. STEM WALL. INSTEAD OF 5/6 O ANCHOR BOLTS.

BOLT

BEAM PERP. TO WALL (TYP. U.O.N.): 4x , 3¹/₄× PSL: (2)-2×6 JACKS MIN. UNDER BEAM 6x , 51/4x PSL: (3)-2x6 JACKS MIN. UNDER BEAM

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MAKERAVE AUTHORED: B/25/23 00672