

------ REFERENCE

COMBINATION SMOKE

MONOXIDE DETECTOR

SMOKE DETECTOR

AND CARBON

## GENERAL NOTES

1. IF ERRORS, OMISSIONS OR CONFLICTS IN THESE DOCUMENTS ARE FOUND OR SUSPECTED, NOTIFY THE ARCHITECT IMMEDIATELY AT THE ADDRESS OR TELEPHONE NO. SHOWN.

- 2. CONTRACTOR TO VERIFY ALL DIMENSIONS AT THE SITE. CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS, LOCATION, AND
- DISPOSITION OF EXISTING UTILITIES AND EASEMENTS. 4. FOR ACCURATE DIMENSIONS, DO NOT SCALE DRAWINGS
- 5. INFORMATION, INCLUDING NOTES AND DIMENSIONS, ON REPETITIOUS DETAILS MAY BE INDICATED IN ONLY ONE LOCATION. AT OTHER LOCATIONS WHERE DETAILING OR CONSTRUCTION IS SIMILARLY IMPLIED, PROVIDE SAME CONSTRUCTION. 6. UNLESS NOTED OTHERWISE (UNO):
- DIMENSIONS FOR CONC. ARE TO FACE OF CONC. - DIMENSIONS FOR WOOD AND METAL STUD FRAMING ARE TO FACE OF STUD - DIMENSIONS FOR CABINETS ARE TO FACE OF FINISH WALL AND
- CABINET BOXES APPLICABLE CODES

### MERCER ISLAND LAND USE & ZONING CODE 2018 INTERNATIONAL RESIDENTIAL CODE W/ STATEWIDE AND CITY AMENDMENTS 2018 WASHINGTON STATE ENERGY CODE 2018 INTERNATIONAL FIRE CODE W/ STATEWIDE AND CITY AMENDMENTS 2018 INTERNATIONAL MECHANICAL CODE W/ STATEWIDE AND CITY AMENDMENTS NFPA 70 NATIONAL ELECTRICAL CODE 2018 UNIFORM PLUMBING CODE

# FIRE PROTECTION REQUIREMENTS

<u>\_1</u>

FIRE AREA SQUARE FOOTAGE CALCULATION		
MAIN FLOOR INTERIOR MEASUREMENT	=	1642 SF
LOWER FLOOR INTERIOR MEASUREMENT	=	878 SF
OTHER FLOOR INTERIOR MEASUREMENT	=	756 SF
ATTACHED CARPORT INTERIOR MEASUREMENT	=	670 SF
MAIN FLOOR COVERED DECK MEASUREMENT	=	130 SF
LOWER LEVEL COVERED EXTERIOR DECK MEASUR	REMEN≢	197 SF
TOTAL GROSS SQUARE FEET	=	4273 GSF

- 1. PROVIDE NEW NFPA 13-R FIRE SPRINKLER SYSTEM FOR ENTIRE HOUSE AS REQUIRED BY MERCER ISLAND FIRE DEPARTMENT; TO BE MONITORED AND COMBINED WITH MONITORED SMOKE DETECTION SYSTEM.
- 2. FIRE SPRINKLER SYSTEM TO BE BIDDER DESIGN; ALL PERMIT DOCUMENTS SHALL BE SUB, MITTED BY BIDDER-DESIGN FOR APPROVAL BY CITY OF MERCER ISLAND FIRE MARSHAL.
- 3. PROVIDE NEW NFPA 72 HOUSEHOLD MONITORED FIRE ALARM PER MERCER ISLAND STANDARDS
- 4. PROVIDE SOLID CORE DOORS THROUGHOUT IN NEW STRUCTURE
- 5. PROVIDE 5/8" TYPE X SHEETROCK THROUGHOUT
- 6. SMOKE DETECTORS PROVIDED PER IRC R314, UNLESS NOT REQUIRED DUE TO FIRE ALARM; SMOKE DETECTION SYSTEM TO BE MONITORED AND COMBINED WITH MONITORED FIRE SPRINKLER SYSTEM
- 7. CARBON MONOXIDE DETECTORS PROVIDED PER IRC R315

# UTILITIES NOTES

- 1. PROVIDE NEW WATER SERVICE METER PER FIRE SAFETY REQUIREMENTS. PROVIDE NEW PIPING TO DESIGNATED LOCATIONS PER PLAN. NEW SERVICE TO ACCOMMODATE REQUIREMENTS FOR DOMESTIC & FIRE SPRINKLER WATER. IRRIGATION TO BE PROVIDED BY EXISTING SERVICE.
- 2. ELECTRICAL PANEL: PROVIDE NEW ELECTRICAL SERVICE TO SUPPLEMENT EXISTING SERVICE AS REQ'D FOR NEW LOADS, SIZE T.B.D.
- 3. GAS: PROVIDE NEW GAS SERVICE AS REQUIRED. PROVIDE NEW PIPING TO DESIGNATED LOCATIONS PER PLAN.
- 4. PRIOR TO CONSTRUCTION, PROVIDE TV INSPECTION OF EXISTING PRIVATE SIDE SEWER BETWEEN THE RESIDENCE AND THE PUBLIC SEWER MAIN AND REPLACE IF FOUND TO BE DEFECTIVE.
- 5. FINAL LOCATION OF WATER SERVICE, METER BOX AND RPBA SHALL BE DETERMINED BY THE WATER DEPARTMENT PRIOR TO CONSTRUCTION.
- 6. REFER TO CIVIL DRAWINGS FOR ADDITIONAL REQUIREMENTS

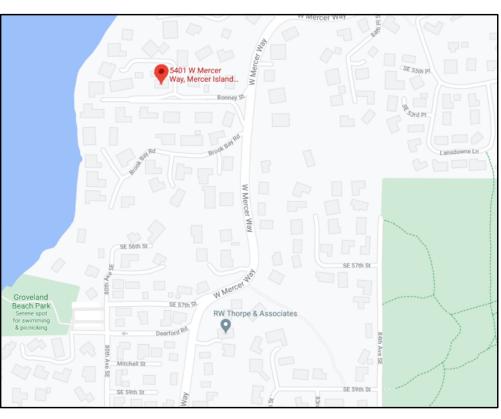
# ENERGY CODE NOTES

1. COMPLIANCE IS SHOWN THROUGH PRESCRIPTIVE APPROACH 2018 WASHINGTON STATE ENERGY CODE PRESCRIPTIVE REQUIREMENTS FOR GROUP R-3 OCCUPANCY CLIMATE ZONE 4C

COMPONENT

FENESTRATION U-VALUE OVERHEAD GLAZING U-VALUE CEILING VAULTED CEILING

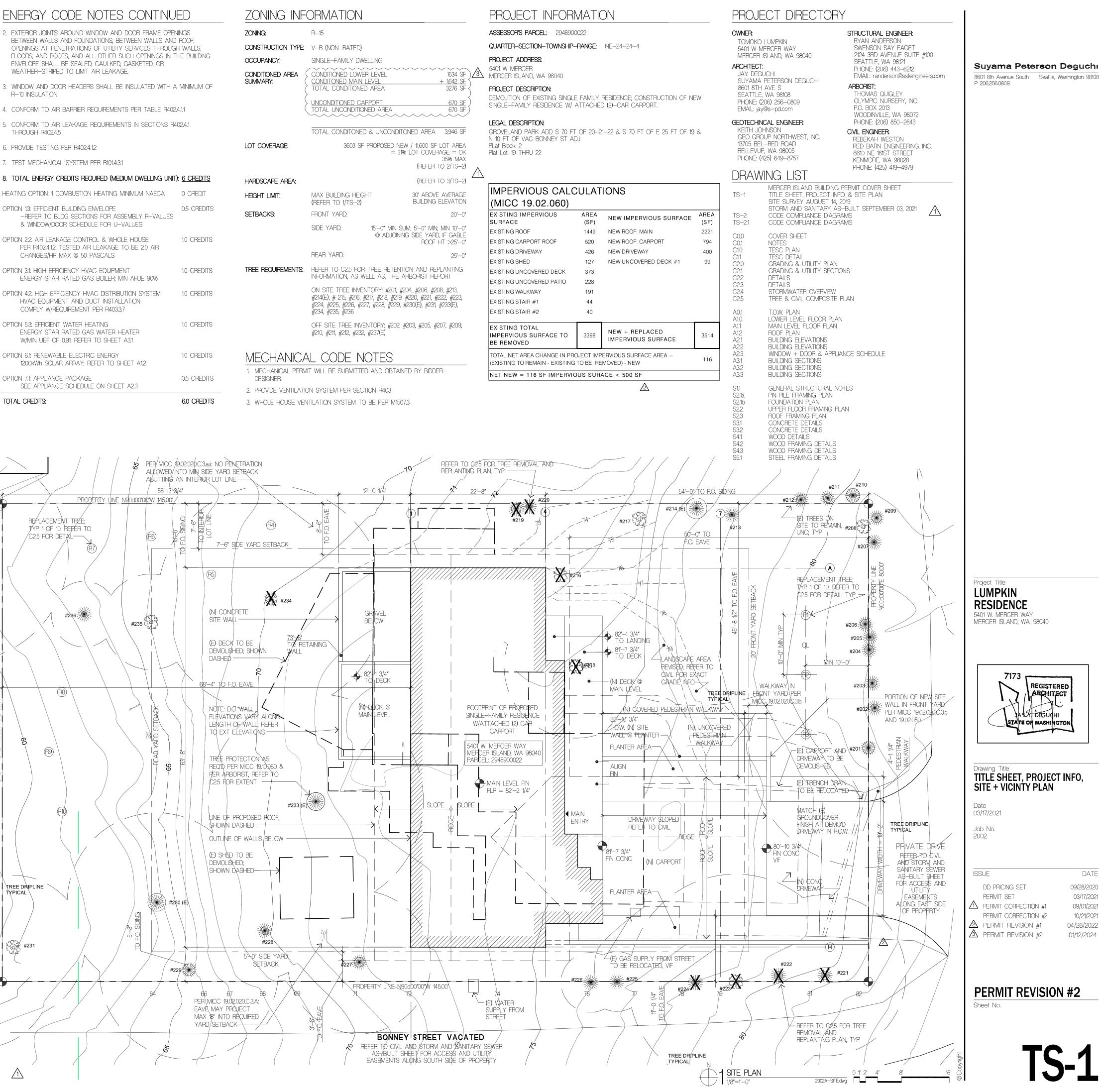
- WALL ABOVE GRADE WALL BELOW GRADE FLOOR SLAB ON GRADE SLAB ON GRADE, HEATED
- MIN. REQUIREMENT 0.30 0.50 R—49 R-38, IF UNCOMPRESSED FULL DEPTH AT PLATE R—21 INT 10/15/21 INT + 5TB R—30 R—10, 2FT
- R—10 , ENTIRE AREA



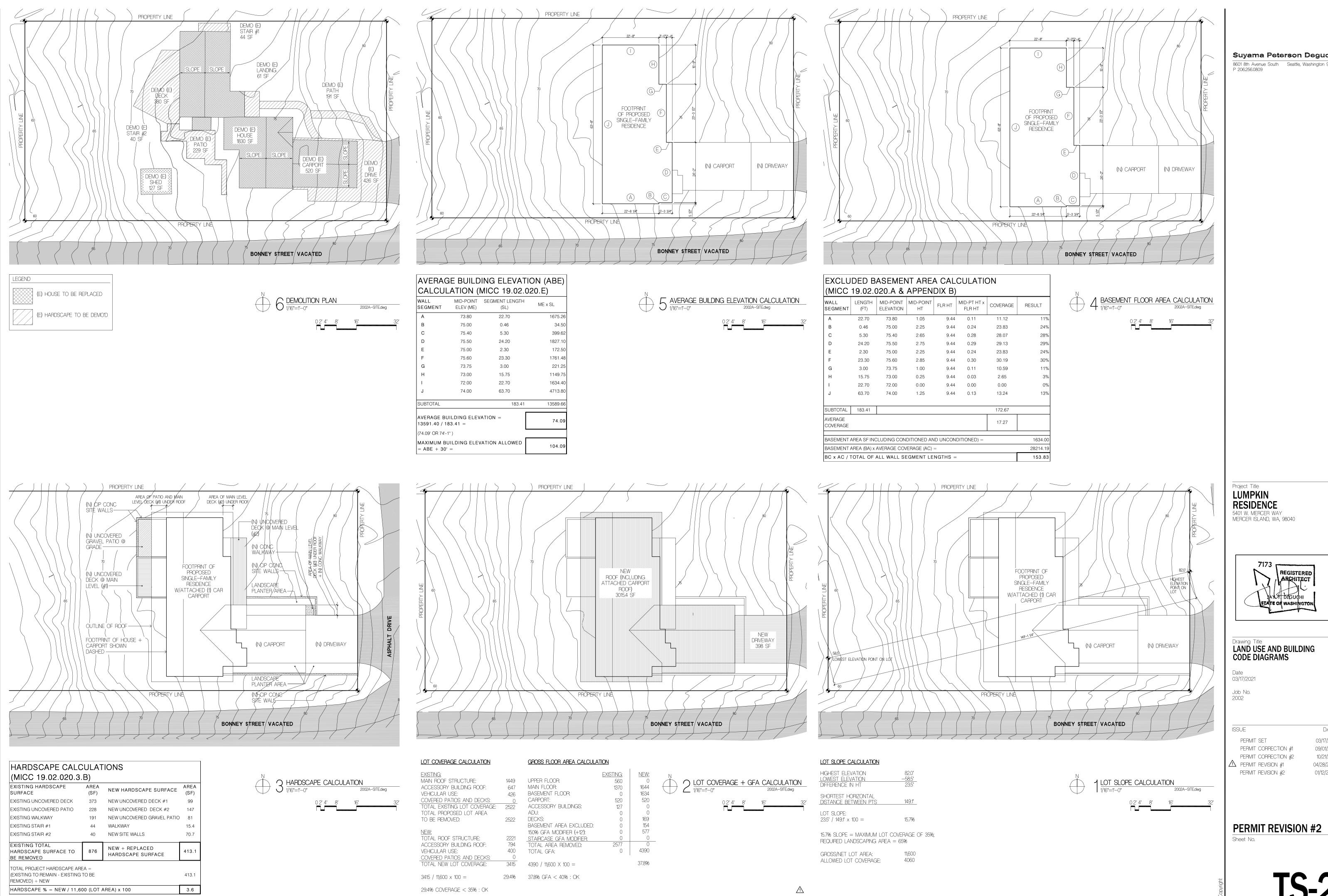


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CINC H-3  SEESSON PARCE: S	ENERGY CODE NOTES CONTINU	IED	ZONING INF	ORMATION	J			PROJECT INFOR		<u> 1C</u>
CONTRUCTION ME SUB ANALISE CONFERENCE AND			ZONING;	R—15				ASSESSOR'S PARCEL: 2948900	)022	
			CONSTRUCTION TYPE:	: V-B (NON-RATED	)			QUARTER-SECTION-TOWNSHIP-	-RANGE:	NE
WATHER STREET COUNT AR LEAVAGE       CONTINUED ARE SUMMARY.	FLOORS, AND ROOFS, AND ALL OTHER SUCH OPENINGS IN 7		OCCUPANCY:	SINGLE-FAMILY D	WELLING			PROJECT ADDRESS:		
3. WHORK ALD DOCT FLACES BIAL DE NEULATER WITT ALLE PARAT.       SUMMARY       CONTONT OF AND AFTER RECORDERING YELL FAILURE AND AND ALLER OF PARTY PERFECTE AND ALL PARAT.       PROJECT LEGRAPHICA       PROJECT LEGRAPHICA         4. CONCENT OF AND AFTER RECORDERING TO TABLE PARAT.       SUMMARY       CONTINUED ALLER AND ALLER ADD.       PROJECT LEGRAPHICA       PROJECT LEGRAPHICA         4. CONCENT OF AN LARGE RECORDERING TO TABLE PARAT.       SUMMARY       SUMMARY       SUMMARY       PROJECT LEGRAPHICA       PROJECT LEGRAPHICA         4. CONCENT OF AN LARGE RECORDERING TO TABLE PARAT.       SUMMARY       SUMMARY       SUMMARY       PROJECT LEGRAPHICA       PROJECT LEGRAPHICA         4. CONCENT ON ALL PARAEL RECORDERING TO TABLE PARAT.       SUMMARY       SUMMARY <td< td=""><td></td><td></td><td>CONDITIONED AREA</td><td>CONDITIONED I OW</td><td>VFR I EVEI</td><td>1634 SF</td><td>)/3</td><td></td><td></td><td></td></td<>			CONDITIONED AREA	CONDITIONED I OW	VFR I EVEI	1634 SF	)/3			
H. DI NSULA KM     CONTONI IO AN EXPLOYENTS THE TABLE RE2201     CONTONI IO AND AND RECONTONIC CERTIS AND FARMAN AND     CONTONI IO AND AND RECONTONIC CERTIS AND FARMAN AND AND     CONTONI IO AND AND RECONTONIC CERTIS AND FARMAN AND AND     CONTONI IO AND AND RECONTONIC CERTIS AND FARMAN AND AND     CONTONI IO AND AND RECONTONIC CERTIS AND FARMAN AND AND     CONTONI IO AND AND RECONTONIC CERTIS AND FARMAN AND AND     CONTONI IO AND	3. WINDOW AND DOOR HEADERS SHALL BE INSULATED WITH A	A MINIMUM OF		( CONDITONED MAIN	I LEVEL	<u>+ 1,642 SF</u>	$\langle $			
4. CONSIGN TO ARE DETECTEDUED INSTRUCTIONS FOR TRADE INSTALL       (TOTAL UNCONFORCE AREA       GETS       (TOTAL UNCONFORCE AREA       GETS         4. CONSIGN TO ARE DETECTEDUENT INSTRUCTIONS FOR TRADE IN	R-10 INSULATION			>			$\langle$	DEMOLITION OF EXISTING SINGLE		
In the second of the second	4. CONFORM TO AIR BARRIER REQUIREMENTS PER TABLE R402	2.4.1.1					5	SINGLE-FAMILY RESIDENCE W/ .	ATTACHE	.D (2
6. POWDET TERINO, PER FACAL2 LOT COMPAGE 3603 SF PROFOSED NEW / TRUO SF LOT ARA SR ANA   7. TEST MECHANICAL SYSTEM FER ROLAL3 SR ANA (PETER 10, 213-24)   8. TOTAL ENERGY CREDIT RECURED MELLING UNIT <u>6. CREDITS</u> SR ANA (PETER 10, 213-24)   1. TEST MECHANICAL SYSTEM FER ROLAL3 CREDITS SR ANA   8. TOTAL ENERGY CREDIT RECURED MELLING UNIT <u>6. CREDITS</u> HADSCAFE AFEA: (PETER 10, 213-24)   1. TEST MECHANICAL SYSTEM FEA THE MINICUM INVECA 2. GREDITS   1. TEST MECHANICAL SYSTEM FEA THE MINICUM INVECA 2. GREDITS   1. TEST MECHANICAL SYSTEM FEA THE MINICUM INVECA 2. GREDITS   1. TEST MECHANICAL SYSTEM FEA THE MINICUM INVECA 2. GREDITS   1. TEST MECHANICAL SYSTEM FEA THE MINICUM INVECA 2. GREDITS   1. TEST MECHANICAL SYSTEM FEA THE MINICUM INVECA 2. GREDITS   1. TEST MECHANICAL SYSTEM FEA THE MINICUM INVECA 2. GREDITS   1. TEST MECHANICON AND RELAXAGE TO BE 26 AR SEE YARDI: SECONTRO LA W-OLE FOR U-VANUES   1. CHARGESTRE MANA & GRED RASCAS 16. CREDITS   1. CHARGESTRE MANA & GRED RASCAS 16. CREDITS <td></td> <td>402.4.1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		402.4.1								
CHOILE HONKING STREAM ALL SYSTEV HER ROUGH     CONTROL RECIPIENT MADE AND AN ALL SYSTEV HER ROUGH     CONTROL RECIPIENT MADE AND	THROUGH R402.4.5			TOTAL CONDITONE	ED & UNCONDIT(	ONED AREA 3,946 SF		GROVELAND PARK ADD S 70 FT N 10 FT OF VAC BONNEY ST AL	" OF 20-2 )J	21-2
A TEST MECHANICAL SYS EMPERIMUMAL     SYS MAX     SEEN MARKAGE SYS EMPERIMUMAL     SYS MAX     SEEN MARKAGE SYS EMPERIMUMAL     SYS MAX     SEEN MARKAGE     SYS MAX     SEEN     SYS MAX     SEEN     SYS MAX     SEEN     SYS MAX     SYS MAX     SYS	6. PROVIDE TESTING PER R402.4.1.2		LOT COVERAGE:	3603 S				PLat Block: 2		
A TOTAL ENERGY CREDITS RECURED (MEDIAN DWELLING UNIT): 6 CREDITS     HARDSCARE AREA:     INCOMP.     INCO	7. TEST MECHANICAL SYSTEM PER R101.4.3.1					35% MAX				
HEATING OPTION: 1 COMBUSTION HEATING WINNUM VAECA       0 OFEDIT       HEATING OPTION: 12 EFRCIENT BULLIONS HEATING WINNUM VAECA       0 OFEDIT       HEATING: WAX BULLING HEGET       30 A30/k AVERAGE         OPTION 12: EFRCIENT BULLIONS EWELOPE       05 OFEDITS       05 OFEDITS       95 OFEDITS       97 O'NN SUAR 5-0" MIN LAW NG-0"       96 OFEDITS       98 ADJOINIO STEVARD       20-0"         SETEACKS       FIDUR YARD       20-0"       96 OFEDITS       96 OFEDIT	8. TOTAL ENERGY CREDITS REQUIRED (MEDIUM DWELLING UNIT	T): 6 CREDITS					$\Delta$			
Industries of our control is not not control is of the integration of the int								IMPERVIOUS CALC	ULAT	
OPTION 12 EMPLOYED       US CHELTS       SETBACKS       FRONT YARD.       20 - 0"         HEAR TO BLID SECTIONS FOR ASSEMBLY R-VALUES       SETBACKS       FRONT YARD.       20 - 0"         SUBJECTIONS FOR ASSEMBLY R-VALUES       SETBACKS       FRONT YARD.       20 - 0"         OPTION 22 AIR LEAKAGE CONTROL & W-OLE HOUSE       10 CREDITS       SETBACKS       FRONT YARD.       20 - 0"         OPTION 32 HIGH EFFICIENCY HWAC DOUTROL & W-OLE HOUSE       10 CREDITS       REFER TO C25 FOR TREE RETENTION AND PERTAINING INFORMATION, AS WELL AS, THE ARBORST REPORT       Existing GAPPORT ROOF       23 - 0"         OPTION 42: HIGH EFFICIENCY HWAC DOSTRIBUTION SYSTEM       10 CREDITS       THEE REQUIREMENTS:       REFER TO C25 FOR TREE RETENTION AND PERTAINING INFORMATION, AS WELL AS, THE ARBORST REPORT       Existing UNCOVERED DECK       273         OPTION 42: HIGH EFFICIENCY HWAC DISTRIBUTION SYSTEM       10 CREDITS       ON STE TREE INFOINT #20, #20, #20, #20, #20, #20, #20, #20,			HEIGHT LIMIT:							
OPTION 22 AP LEAKAGE CONTROL & WHOLE HOUSE       10 CREDITS       SDE YARD:       EXISTING PAOLE FOR MIN 10-CP (9 ADJOINING SOF MIN, 10-CP) (9 ADJOINING SOF MIN, 10-CP) (2 STRING ARPORT ROOF       EXISTING CARPORT ROOF       520 M         OPTION 31 HIGH EFFICIENCY HVAC EQUIPVENT ENERGY STAR RATED GAS BOLLER MIN AFUE 90%       10 CREDITS       THEE RECURPMENTS (10 CREDITS)       REFER TO C25 FOR TREE RETENTION AND PEPLANTING INFORMATION, AS WELL AS THE APBORET REPORT       EXISTING UNCOVERED DECK 200 N STE TREE INFORMATION, AS WELL AS THE APBORET REPORT         CPTION 42 HIGH EFFICIENCY HVAC DISTRIBUTION SYSTEM HVAC EQUIPVENT AND DUCT INSTALLATION (20 MIN, WEF OF 091; REFER TO STAL AND EXISTING STAIR #1       10 CREDITS       ON STE TREE INFORMATION; #20, #20, #20, #20, #20, #20, #20, #20,		0.5 CREDITS	SETBACKS:	FRONT YARD:		20'-0"		EXISTING IMPERVIOUS		N
OPTION 22 AR LEAKAGE CONTROL & WHOLE HOUSE       10 CPEDITS       (* ALUCINING SILE YARD, IF CABLE ROCF HT >28-0"         PER PAQ2412 TESTED AIR LEAKAGE TO BE 20 AR CHANGES/HR MAX (9 50 PASCALS       10 CPEDITS       REAR YARD.       25-0"         OPTION 31 HIGH EFFCIENCY HVAC EQUIPMENT ENERGY STAR RATED GAS BOLER MIN AFUE 90%       10 CPEDITS       TREE PEQUIPEMENTS       REFER TO C25 FOR TREE PETENTION AND PEL-ANTION INFORMATION, AS WELL AS, THE ARBORIST REPORT       EXISTING UNCOVERED DECK       373         OPTION 42. HIGH EFFCIENCY HVAC DISTRBUTION SYSTEM HVAC EQUIPMENT AND DUCT INSTALLATION COMPLY W/REQUIPEMENT PER R40337       10 CPEDITS       OPEDITS       OPTION 53. EFFCENT WATER HEATING ENERGY STAR RATED GAS WATER HEATING W/MIN UE FO 091; REFER TO SHEET A31       10 CPEDITS       OPTION 61 FENEWATION SYSTEM W/MIN UE FO 091; REFER TO SHEET A31       10 CPEDITS       OPTION 61 FENEWATION SYSTEM W/MIN UE FO 091; REFER TO SHEET A31       10 CPEDITS       OPTION 61 FENEWATICE ARPORT REAL       260       273, #238, #236, #201, #231, #231, #231, #234, #235, #236, #201, #231, #231, #234, #235, #236       EXISTING CARPORT RAOF       280         OPTION 53. EFFOENT WATER HEATING W/MIN UE FO 091; REFER TO SHEET A31       10 CPEDITS       OPEDITS       0 CPEDITS       10 CPEDITS       10 CPEDITS       10 CPEDITS       11 CPEMIT WILL BE SUBMITTED AND OBTAINED BY BDDER- USISTING TARE CHANGE IN PROJECT IMPERVICUS SURFACE TO BE REMOVED       13 398       11 CPEMIT WILL BE SUBMITTED AND OBTAINED BY BDDER- DESIGNER       11 CPEMIT WILL BE SUBMITTED AND OBTAINED BY BDDER- DESIGNER       11	& WINDOW/DOOR SCHEDULE FOR U-VALUES			SIDE YARD:						N
CHANGES/HE MAX @ 50 PASCALS       PEAR YARD:       25-0°       EXSTING PUNEWAY       426       N         OPTION 31: HGH EFFICIENCY HVAC EQUIPMENT ENERGY STAR RATED GAS BOILER; MIN AFUE 90%       10 CREDITS       TREE REQUIREMENTS INFORMATION, AS WELL AS, THE ARBORIST REPORT       EXSTING DIVEOURED DECK.       127       N         OPTION 42: HIGH EFFICIENCY HVAC DISTRIBUTION SYSTEM HVAC EQUIPMENT AND DUCT INSTALLATION COMPLY W/REQUIREMENT PER R403.37       10 CREDITS       ON SITE TREE INVENTORY: #201, #204, #20, #221, #222, #223, #224, #225, #236       EXISTING TOTAL IMPERVIOUS SURFACE TO BE REMOVED       EXISTING STAIR #1       44         OPTION 53: EFFICIENT WATER HEATING ENERGY STAR RATED GAS WATER HEATER W/MIN UEF OF 091; REFER TO SHEET A12       10 CREDITS       OFF SITE TREE INVENTORY: #204, #203, #203, #205, #207, #209, #214, #235, #236       EXISTING TOTAL IMPERVIOUS SURFACE TO BE REMOVED       3398         OPTION 61: RENEWABLE ELECTRIC ENERGY SOLAR ARRAY; REFER TO SHEET A12       10 CREDITS       OFE CHANICAL CODE NOTES       TOTAL NET AREA CHANGE IN PROJECT IMPERVIEWS SURFACE TO BE REMOVED       3398         OPTION 71: APPLIANCE SCHEDULE ON SHEET A23       10 CREDITS       10 CREDITS       11 MECHANICAL PERMIT WILL BE SUBMITTED AND OBTAINED BY BDDER- DESIGNER       12 PROVED VENTLATION SYSTEM PER SECTION R403         2       PROVED VENTLATION SYSTEM PER SECTION R403       21 PROVED VENTLATION SYSTEM PER SECTION R403       NET NEW = 116 SF IMPERVIOUS SURFACE		1.0 CREDITS			@ ADJOININ					N
OPTION 31: HIGH EFFICIENCY HVAC EQUIPMENT       10 CREDITS       THEE REQUIREMENTS       REFER TO C25 FOR TREE RETENTION AND PER LANDING       EXISTING SHED       127 M         OPTION 32: HIGH EFFICIENCY HVAC EQUIPMENT       10 CREDITS       THEE REQUIREMENTS       REFER TO C25 FOR TREE RETENTION AND PER LANDING       EXISTING UNCOVERED DECK       373         OPTION 42: HIGH EFFICIENCY HVAC DISTRIBUTION SYSTEM       10 CREDITS       00 SITE TREE INVENTORY: #20, #20, #20, #20, #20, #22, #23, #23, #23, #23, #23, #23, #23				REAR YARD		25' O"		EXISTING DRIVEWAY	426	Ν
OPTION 42: HIGH EFFICIENCY HVAC DISTRIBUTION SYSTEM HVAC EQUIPMENT AND DUCT INSTALLATION COMPLY W/REQUIREMENT PER R4033.7       10 CREDITS       ON SITE TREE INVENTORY: #20, #204, #206, #208, #219, #214(E), # 215, #216, #217, #218, #219, #220, #221, #222, #222, #234, #235, #236       EXISTING UNCOVERED PATIO       228         OPTION 5.2: EFFICIENT WATER HEATING ENERGY STAR RATED GAS WATER HEATER W/MIN UEF OF 0.9t, REFER TO SHEET A3.1       10 CREDITS       OFF SITE TREE INVENTORY: #202, #203, #205, #207, #209, #210, #21, #21, #212, #222, #237(E)       EXISTING TOTAL IMPERVIOUS SURFACE TO BE REMOVED         OPTION 5.1: RENEWABLE ELECTRIC ENERGY 1200kWh SQLAR ARRAY; REFER TO SHEET A12       10 CREDITS       MECHANICAL CODE NOTES       Impervious Surface TO BE REMOVED         OPTION 7.1: APPLIANCE PACKAGE SEE APPLIANCE SCHEDULE ON SHEET A23       0.5 CREDITS       2. PROVIDE VENTIATION SYSTEM PER SECTION R403       Impervious Surface TO BE COMPLY WILL BE SUBMITTED AND OBTAINED BY BIDDER- DESIGNER	CHANGES/THY WAX & JUT ASCAES							EXISTING SHED	127	Ν
OPTION 42 HIGH EFFICIENCY HVAC DISTRIBUTION SYSTEM HVAC EQUIPMENT AND DUCT INSTALLATION COMPLY WREQUEREMENT PER R40337       10 CREDITS       In CREDIT		1.0 CREDITS	TREE REQUIREMENTS:					EXISTING UNCOVERED DECK	373	
OPTION 42. EQUIPMENT AND DUCT INSTALLATION HVAC EQUIPMENT AND DUCT INSTALLATION COMPLY W/REQUIREMENT PER R403.3.7       10 CREDITS       #214(E), # 215, #216, #217, #28, #219, #220, #221, #222, #223, #224, #225, #226, #227, #28, #219, #230(E), #231, #233(E), #234, #234, #235, #236       Existing stain #1       44         OPTION 5.3: EFFICIENT WATER HEATING ENERGY STAR RATED GAS WATER HEATER W/MIN UEF OF 0.91; REFER TO SHEET A3.1       10 CREDITS       OFF SITE TREE INVENTORY: #202, #203, #205, #207, #209, #210, #211, #212, #232, #237(E)       Existing stain #1       44         OPTION 6.1: RENEWABLE ELECTRIC ENERGY 1200kWh SOLAR ARRAY; REFER TO SHEET A12       10 CREDITS       OFE SITE TREE INVENTORY: #202, #203, #205, #207, #209, #210, #211, #212, #232, #237(E)       Impervious surface to BE REMOVED       Impervious surface to BE REMOVED         OPTION 7.1: APPLIANCE PACKAGE SEE APPLIANCE SCHEDULE ON SHEET A2.3       10 CREDITS       1. MECHANICAL PERMIT WILL BE SUBMITTED AND OBTAINED BY BIDDER- DESIGNER.       Total NET AREA CHANGE IN PROJECT IMPERVIOUS SURFACE         2. PROVIDE VENTILATION SYSTEM PER SECTION R403       Impervious Surface TO       NET NEW = 116 SF IMPERVIOUS SURFACE	ENERGY STAR KATED GAS BOILER; MIIN AFUE 9090				·			EXISTING UNCOVERED PATIO	228	
HVAC EQUIPMENT AND DOCT HISTALLATION       #224, #225, #226, #227, #228, #229, #230(E), #231, #233(E),       EXISTING STAIL # #1       44         COMPLY W/REQUIREMENT PER R403.37       #224, #225, #226, #227, #228, #229, #230(E), #231, #233(E),       EXISTING STAIL # #1       44         OPTION 5.3: EFFCIENT WATER HEATING       10 CREDITS       OFF SITE TREE INVENTORY: #202, #203, #205, #207, #209,       #210, #211, #212, #232, #237(E)       EXISTING TOTAL       EXISTING TOTAL       EXISTING TOTAL       EXISTING TO REAL       Impervious surface to       3398       Impervious surface to       3398       Impervious surface to       3398       Impervious surface to       Impervious surface to <td>OPTION 4.2: HIGH EFFICIENCY HVAC DISTRIBUTION SYSTEM</td> <td>1.0 CREDITS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>EXISTING WALKWAY</td> <td>191</td> <td></td>	OPTION 4.2: HIGH EFFICIENCY HVAC DISTRIBUTION SYSTEM	1.0 CREDITS						EXISTING WALKWAY	191	
COMPLY W/REQUIREMENT PER H403.37       #234, #235, #236       EXISTING STAIR #2       40         OPTION 5.3: EFFICIENT WATER HEATING ENERGY STAR RATED GAS WATER HEATER W/MIN UEF OF 0.91; REFER TO SHEET A3.1       10 CREDITS       OFF SITE TREE INVENTORY: #202, #203, #205, #207, #209, #210, #211, #212, #232, #237(E)       EXISTING STAIR #2       40         OPTION 6.1: RENEWABLE ELECTRIC ENERGY 1200kWh SOLAR ARRAY; REFER TO SHEET A12       10 CREDITS       MECHANICAL CODE NOTES       Impervious Surface to BE REMOVED       3398       M         OPTION 7.1: APPLIANCE PACKAGE SEE APPLIANCE SCHEDULE ON SHEET A23       0.5 CREDITS       0.5 CREDITS       1. MECHANICAL PERMIT WILL BE SUBMITTED AND OBTAINED BY BIDDER- DESIGNER       NET NEW = 116 SF IMPERVIOUS SURFACE         2. PROVIDE VENTILATION SYSTEM PER SECTION R403       PER SECTION R403								EXISTING STAIR #1	44	
ENERGY STAR RATED GAS WATER HEATER       #210, #211, #212, #237, #237(E)         W/MIN UEF OF 0.91; REFER TO SHEET A3.1       #210, #211, #212, #232, #237(E)         OPTION 6.1: RENEWABLE ELECTRIC ENERGY       10 CREDITS         1200kWh SOLAR ARRAY; REFER TO SHEET A12       10 CREDITS         OPTION 7.1: APPLIANCE PACKAGE       0.5 CREDITS         SEE APPLIANCE SCHEDULE ON SHEET A23       0.5 CREDITS         2. PROVIDE VENTILATION SYSTEM PER SECTION R403	COMPLY W/REQUIREMENT PER R403.3.7			#234, #235, #236	, , , , , , , , , , , , , , , , , , , ,			EXISTING STAIR #2	40	
1200kWh SOLAR ARRAY; REFER TO SHEET A12       IMILOTIANICAL COULTINOTLS       (EXISTING TO REMAIN - EXISTING TO BE REMO         OPTION 7.1: APPLIANCE PACKAGE       0.5 CREDITS       1. MECHANICAL PERMIT WILL BE SUBMITTED AND OBTAINED BY BIDDER-       NET NEW = 116 SF IMPERVIOUS SURACE         SEE APPLIANCE SCHEDULE ON SHEET A2.3       2. PROVIDE VENTILATION SYSTEM PER SECTION R403       2. PROVIDE VENTILATION SYSTEM PER SECTION R403	ENERGY STAR RATED GAS WATER HEATER	1.0 CREDITS				#203, #205, #207, #209,		IMPERVIOUS SURFACE TO	3398	N 1
1200kWh SOLAR ARRAY; REFER TO SHEET A12       1. MECHANICAL PERMIT WILL BE SUBMITTED AND OBTAINED BY BIDDER-         0PTION 7.1: APPLIANCE PACKAGE       0.5 CREDITS         SEE APPLIANCE SCHEDULE ON SHEET A2.3       0.5 CREDITS         2. PROVIDE VENTILATION SYSTEM PER SECTION R403		1.0 CREDITS			NOTES					
OPTION 7.1: APPLIANCE PACKAGE       0.5 CREDITS       DESIGNER.         SEE APPLIANCE SCHEDULE ON SHEET A2.3       2. PROVIDE VENTILATION SYSTEM PER SECTION R403	1200kWh SOLAR ARRAY; REFER TO SHEET A1.2					ED BY BIDDER-		<b>`</b>		
2. PROVIDE VENTILATION SYSTEM PER SECTION R403		0.5 CREDITS		VIIT VVILL DE OODIVIITT				NET NEW = 116 SF IMPERVIC	DUS SUR	ACE
TOTAL CREDITS:6.0 CREDITS3. WHOLE HOUSE VENTILATION SYSTEM TO BE PER M1507.3	JEE AFFLIANCE SCHEDULE UN SHEET AZJ		2. PROVIDE VENTILATI	ION SYSTEM PER SEC	CTION R403					
	TOTAL CREDITS:	6.0 CREDITS	3. WHOLE HOUSE VE	INTILATION SYSTEM T	10 BE PER M1507	7.3				



ISS	SUE	DATE
	DD PRICING SET	09/28/2020
	PERMIT SET	03/17/2021
$\Lambda$	PERMIT CORRECTION #1	09/01/2021
	PERMIT CORRECTION #2	10/21/2021
	PERMIT REVISION #1	04/28/2022
丞	PERMIT REVISION #2	01/12/2024



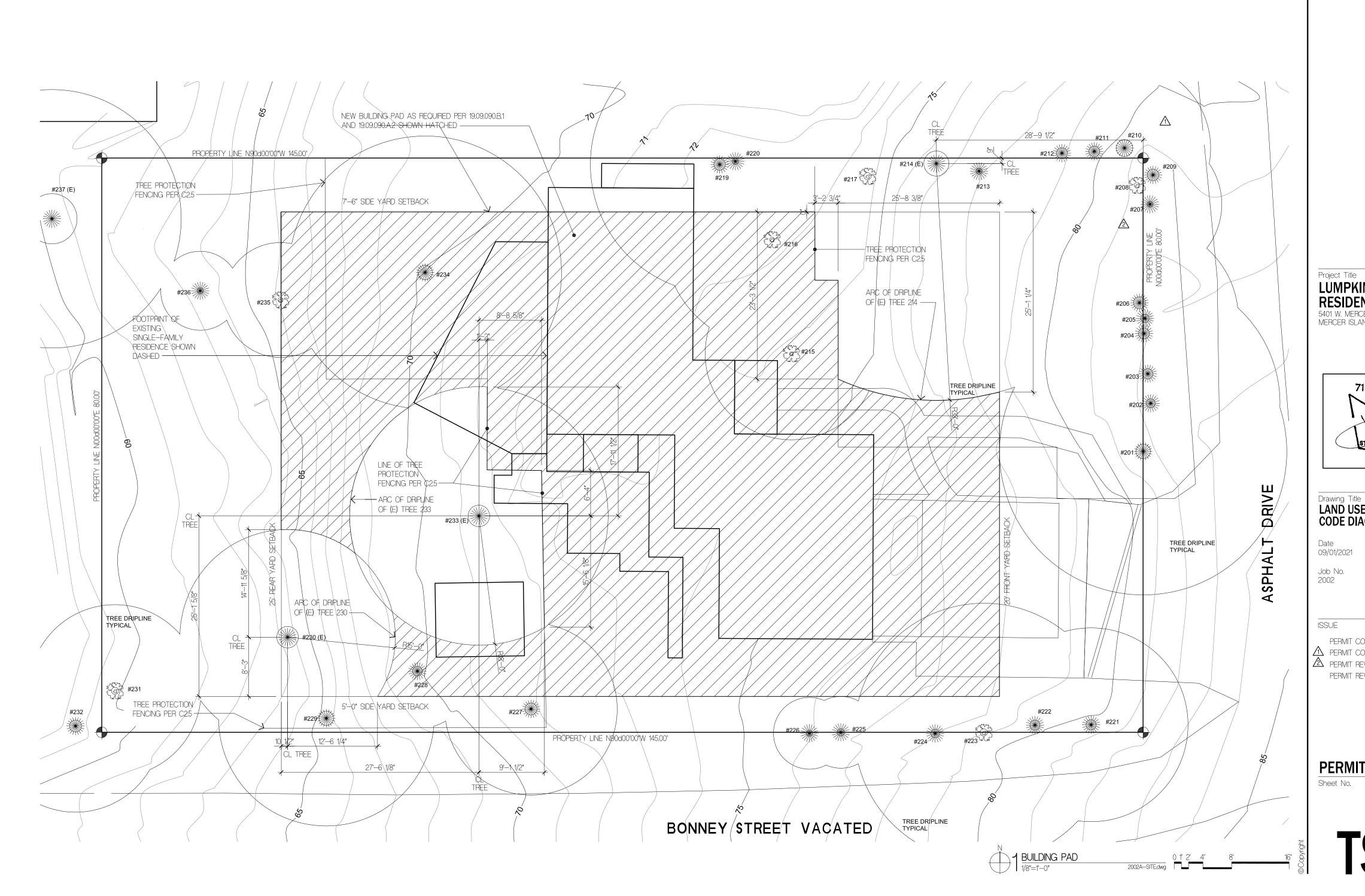
LCULATION (MICC 19.02.020.E)					
MID-POINT ELEV (ME)	SEGMENT LENGTH (SL)	ME x SL			
73.80	22.70	1675.26			
75.00	0.46	34.50			
75.40	5.30	399.62			
75.50	24.20	1827.10			
75.00	2.30	172.50			
75.60	23.30	1761.48			
73.75	3.00	221.25			
73.00	15.75	1149.75			
72.00	22.70	1634.40			
74.00	63.70	4713.80			
	183.41	13589.66			
RAGE BUILDING ELEVATION = 74.09					
)					
IMUM BUILDING ELEVATION ALLOWED 104.09					
	MID-POINT ELEV (ME) 73.80 75.00 75.40 75.50 75.00 75.60 73.75 73.00 72.00 74.00 UDING ELEV 3.41 = )	MID-POINT ELEV (ME)         SEGMENT LENGTH (SL)           73.80         22.70           75.00         0.46           75.40         5.30           75.50         24.20           75.00         2.30           75.60         23.30           73.75         3.00           73.00         15.75           72.00         22.70           74.00         63.70           ILDING ELEVATION =           )			

WALL SEGMENT	LENGTH (FT)	MID-POINT ELEVATION	MID-POIN HT
A	22.70	73.80	1.05
В	0.46	75.00	2.25
С	5.30	75.40	2.65
D	24.20	75.50	2.75
E	2.30	75.00	2.25
F	23.30	75.60	2.85
G	3.00	73.75	1.00
Н	15.75	73.00	0.25
I	22.70	72.00	0.00
J	63.70	74.00	1.25
SUBTOTAL	183.41		
AVERAGE COVERAGE			

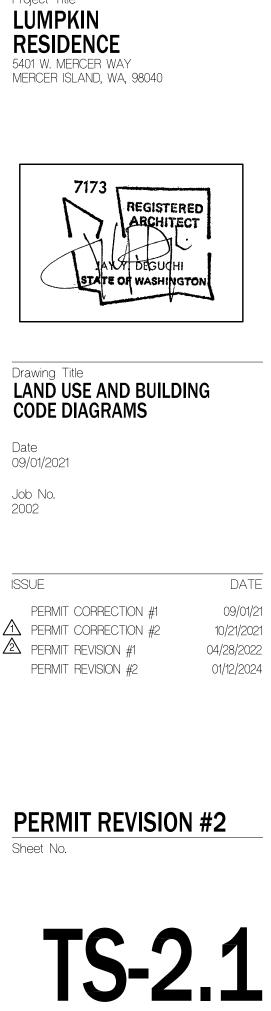
LOT SLOPE CALCULATION	
HIGHEST ELEVATION LOWEST ELEVATION DIFFERENCE IN HT	82.0' — <u>58.5'</u> 23.5'
SHORTEST HORIZONTAL DISTANCE BETWEEN PTS	149.1'
LOT SLOPE: 23.5' / 149.1' x 100 =	15.7%
15.7% SLOPE = MAXIMUM LOT REQUIRED LANDSCAPING AREA	
GROSS/NET LOT AREA: ALLOWED LOT COVERAGE:	11,600 4060

Suyama Peterson Deguchi 8601 8th Avenue South Seattle, Washington 98108 P 206.256.0809

ISS	SUE		DAT
	PERMIT	SET	03/17/202
	PERMIT	CORRECTION #1	09/01/202
	PERMIT	CORRECTION #2	10/21/202
$\overline{\mathbb{A}}$	PERMIT	REVISION #1	04/28/202
	PERMIT	REVISION #2	01/12/202



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PROJECT SPECIFIC TESC NOTES:

- . MARK CLEARING LIMITS AND ENVIRONMENTALLY CRITICAL AREAS. WITHIN THE BOUNDARIES OF THE PROJECT SITE AND PRIOR TO BEGINNING LAND DISTURBING ACTIVITIES, CLEARLY MARK ALL CLEARING LIMITS, EASEMENTS, SETBACKS, ALL ENVIRONMENTALLY CRITICAL AREAS AND THEIR BUFFERS, AND ALL TREES, AND DRAINAGE COURSES THAT ARE TO BE PRESERVED WITHIN THE CONSTRUCTION AREA.
- 2. RETAIN TOP LAYER AND/OR AMEND ALL DISTURBED SOILS. WITHIN THE BOUNDARIES OF THE PROJECT SITE, THE DUFF LAYER, TOP SOIL, AND NATIVE VEGETATION, IF THERE IS ANY, SHALL BE RETAINED IN AN UNDISTURBED STATE TO THE MAXIMUM EXTENT FEASIBLE. IF IT IS NOT FEASIBLE TO RETAIN THE TOP LAYER IN PLACE. IT SHALL BE STOCKPILED ON-SITE AND COVERED TO PREVENT EROSION. SOIL SHALL THEN BE AMENDED AND REPLACED IMMEDIATELY UPON COMPLETION OF THE GROUND DISTURBING ACTIVITIES.
- 3. ESTABLISH CONSTRUCTION ENTRANCE. LIMIT CONSTRUCTION VEHICLE ACCESS TO ONE ROUTE. STABILIZE ACCESS POINTS AND PREVENT TRACKING SEDIMENT ONTO PUBLIC ROADS. PROMPTLY REMOVE ANY SEDIMENT TRACKED OFFSITE.
- 4. PROTECT DOWNSTREAM PROPERTIES AND RECEIVING WATERS. PROTECT PROPERTIES AND RECEIVING WATERS DOWNSTREAM FROM THE DEVELOPMENT SITES FROM EROSION DUE TO INCREASES IN THE VOLUME. VELOCITY. AND PEAK FLOW RATE OF DRAINAGE WATER FROM THE PROJECT SITE.
- 5. PREVENT EROSION AND SEDIMENT TRANSPORT FROM THE SITE. PASS ALL DRAINAGE WATER FROM DISTURBED AREAS THROUGH A SEDIMENT TRAP OR OTHER APPROPRIATE SEDIMENT REMOVAL BEST MANAGEMENT PRACTICES BEFORE DISCHARGING FROM THE SITE SEDIMENT CONTROLS INTENDED TO TRAP SEDIMENT ON-SITE SHALL BE CONSTRUCTED AS ONE OF THE FIRST STEPS IN GRADING AND SHALL BE FUNCTIONAL BEFORE OTHER LAND DISTURBING ACTIVITIES TAKE PLACE.ONE OF THE FOLLOWING SHALL BE USED TO PREVENT THE TRANSPORT OF SEDIMENT FORM THE SITE: COMPOST SOCKS, BERMS OR BLANKETS, FILTER FENCE,

NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH WSDOT CURRENT STANDARD SPECIFICATIONS. 2. CONTRACTOR TO NOT DISTURB MORE THAN 1 AC ON-SITE. IF MORE THAN 1 AC WILL BE DISTURBED, STABILIZE A PORTION OF THE SITE AND NOTIFY RED BARN ENGINEERING INC.

LEGEND:	3	
│	- FILTER FABRIC FENCE (	
	LIMITS OF DISTURBANCE	EXISTING
		SANITARY SEWER M
	- PROPERTY LINE	SANITARY SEWER C
	GRASS-LINED SWALE	STORM DRAIN MH
		STORM DRAIN CATC
	COMPOST SOCK (4)	WATER HYDRANT
		WATER FDC
· /· /· /· /· /· /· /· /· /	REMOVE UTILITY	WATER METER
	5	WATER VALVE
oo	TREE PROTECTION FENCING	WATER BLOW-OFF
		WATER AIR RELIEF
	(PER ARBORIST, TREE FENCING HAS BEEN	WATER CAP
	ADDRESSED IN THE ARBORIST	GAS METER
	REPORT FOR BEST LOCATION.)	GAS VALVE
	STABILIZED	BOLLARD
	CONSTRUCTION C1.1	POWER POLE
	ENTRANCE	UTILITY POLE
		GUY ANCHOR
	REMOVE CONCRETE/ ASPHALT	TELPHONE RISER
		YARD LIGHT
	FLOW DIRECTION	POLE WITH LUMINAF
	PLYWOOD	JUNCTION BOX
		CONIFER TREE
		DECIDUOUS TREE
	STOCKPILE (NETS 2	GENERAL SIGN
	AND BLANKETS) C1.1 SEE NOTE 8.	» -in-lead down
$\times$	REMOVE TREE	
	INLET PROTECTION $6$	

STRAW BALE BARRIER, BRUSH BARRIER, GRAVEL FILTER BERM, SEDIMENT POND OR SEDIMENT TRAP. SANDBAGS MAY ALSO BE UTILIZED TO PREVENT SEDIMENT FROM BEING DISCHARGED OFFSITE. RETAINING NATURAL VEGETATION AND BUFFER ZONES ARE ENCOURAGED, BUT MAY NOT BE USED AS A SUBSTITUTE.

- 6. PREVENT EROSION AND SEDIMENT TRANSPORT FROM THE SITE BY VEHICLES. LIMIT CONSTRUCTION VEHICLE ACCESS, WHENEVER POSSIBLE, TO ONE LOCATION. STABILIZE ALL ACCESS POINTS. PROVIDE PERIODIC STREET CLEANING BY SWEEPING OR SHOVELING ANY SEDIMENT THAT MAY HAVE BEEN TRACKED OUT. PLACE SEDIMENT IN A SUITABLE DISPOSAL AREA WHERE IT WILL NOT ERODE ANY FURTHER.
- 7. STABILIZE SOILS. PREVENT ON-SITE EROSION BY STABILIZING ALL EXPOSED AND UNWORKED SOILS, INCLUDING STOCK PILES. FROM OCTOBER 1 TO APRIL 30, NO SOILS SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN TWO DAYS. FROM MAY 1 TO SEPTEMBER 30, NO SOILS SHALL REMAIN EXPOSED FOR MORE THAN SEVEN DAYS. SOILS SHALL BE STABILIZED AT THE END OF THE SHIFT BEFORE A HOLIDAY OR WEEKEND IF NEEDED BASED ON THE WEATHER FORECAST. SOIL STOCKPILES SHALL BE STABILIZED FROM EROSION, PROTECTED WITH SEDIMENT TRAPPING MEASURES, AND BE LOCATED AWAY FROM STORM DRAIN INLETS, WATERWAYS, AND DRAINAGE CHANNELS. BEFORE THE COMPLETION OF THE PROJECT, PERMANENTLY STABILIZE ALL EXPOSED SOILS THAT HAVE BEEN DISTURBED DURING CONSTRUCTION. SOME EXAMPLES OF BMPS TO USE TO STABILIZE SOILS, INCLUDING STOCKPILES ARE: COMPOST BLANKETS, SEEDING AND MULCHING. OR MATTING/ROLLED EROSION CONTROL PRODUCTS. COMPOST BLANKETS CAN BE USED AS TEMPORARY EROSION CONTROL AND THEN BE MIXED INTO THE SOIL TO HELP MEET THE POST CONSTRUCTION SOIL AMENDMENT REQUIREMENTS.
- 8. PROTECT SLOPES. EROSION FROM SLOPES SHALL BE MINIMIZED. CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE OFFSITE STORMWATER RUN-ON OR EROSION. GROUNDWATER SHALL BE DIVERTED AWAY FROM SLOPES AND UNDISTURBED

SANITARY SEWER MH

POLE WITH LUMINARE

SANITARY SEWER CLEAN OUT

STORM DRAIN CATCH BASIN

WATER AIR RELIEF VALVE

LL BE DIVERTI AREAS.	ED AWAY FROM SLOPES	OR
		+62.
	GARAGE	+
		/
	TOTAOF REBAR & 162	63 <sub>0</sub>
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	84" SEQ (E)	
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¢ \	+ <sup>3</sup> <sup>3</sup> 20"F 232 + <sup>3</sup> <sup>3</sup> 20"F 232 + <sup>3</sup> ELEV.= 59.41	>
$\stackrel{\vee}{\boxtimes}$		/
		E OF
	EDG 5 - 585 - 55 - 55 - 55 - 55 - 55 - 55 -	\$ —
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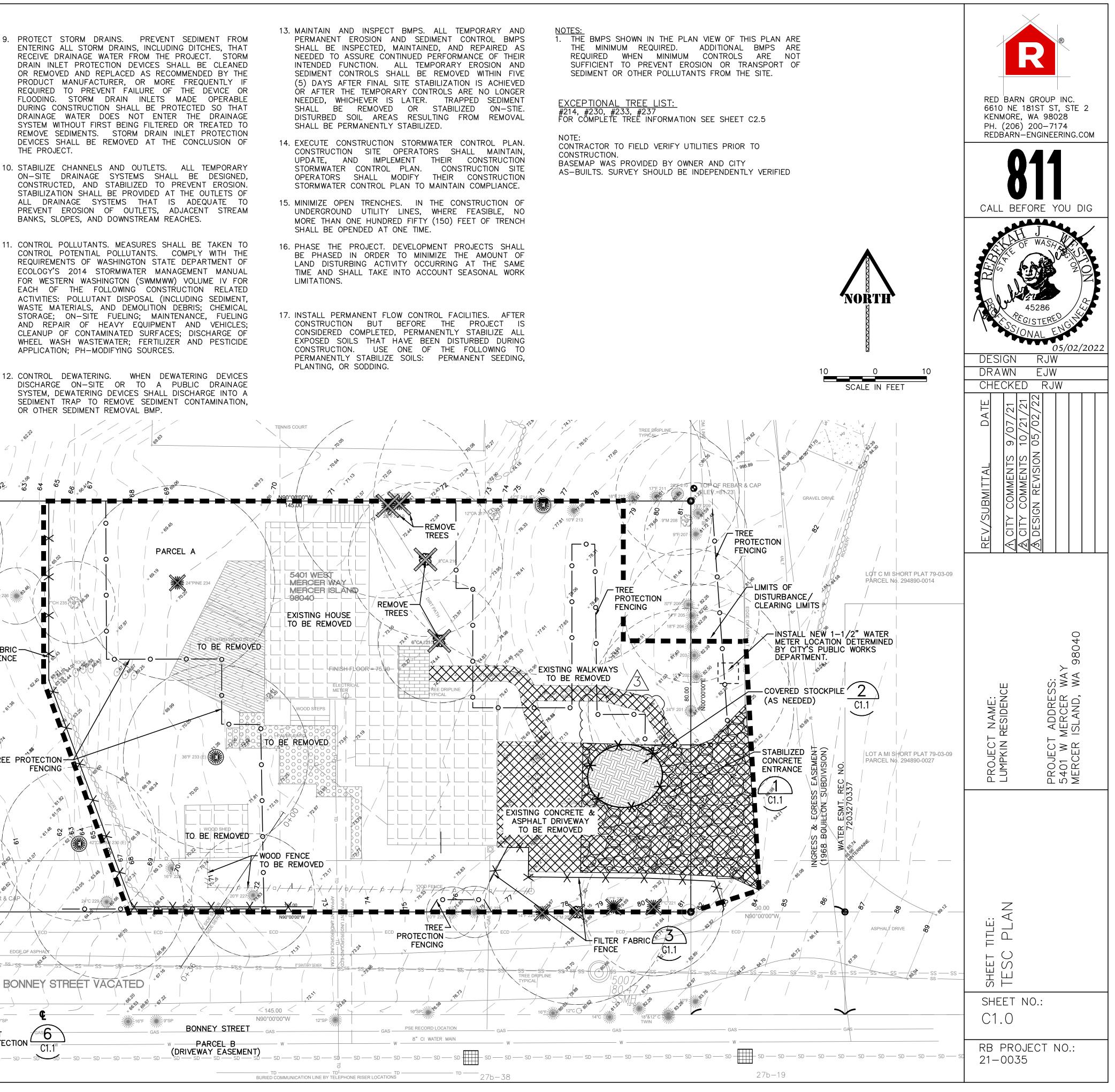
9. PROTECT STORM DRAINS. PREVENT SEDIMENT FROM ENTERING ALL STORM DRAINS, INCLUDING DITCHES, THAT RECEIVE DRAINAGE WATER FROM THE PROJECT. STORM DRAIN INLET PROTECTION DEVICES SHALL BE CLEANED OR REMOVED AND REPLACED AS RECOMMENDED BY THE PRODUCT MANUFACTURER, OR MORE FREQUENTLY IF REQUIRED TO PREVENT FAILURE OF THE DEVICE OR FLOODING. STORM DRAIN INLETS MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT DRAINAGE WATER DOES NOT ENTER THE DRAINAGE SYSTEM WITHOUT FIRST BEING FILTERED OR TREATED TO REMOVE SEDIMENTS. STORM DRAIN INLET PROTECTION DEVICES SHALL BE REMOVED AT THE CONCLUSION OF THE PROJECT.

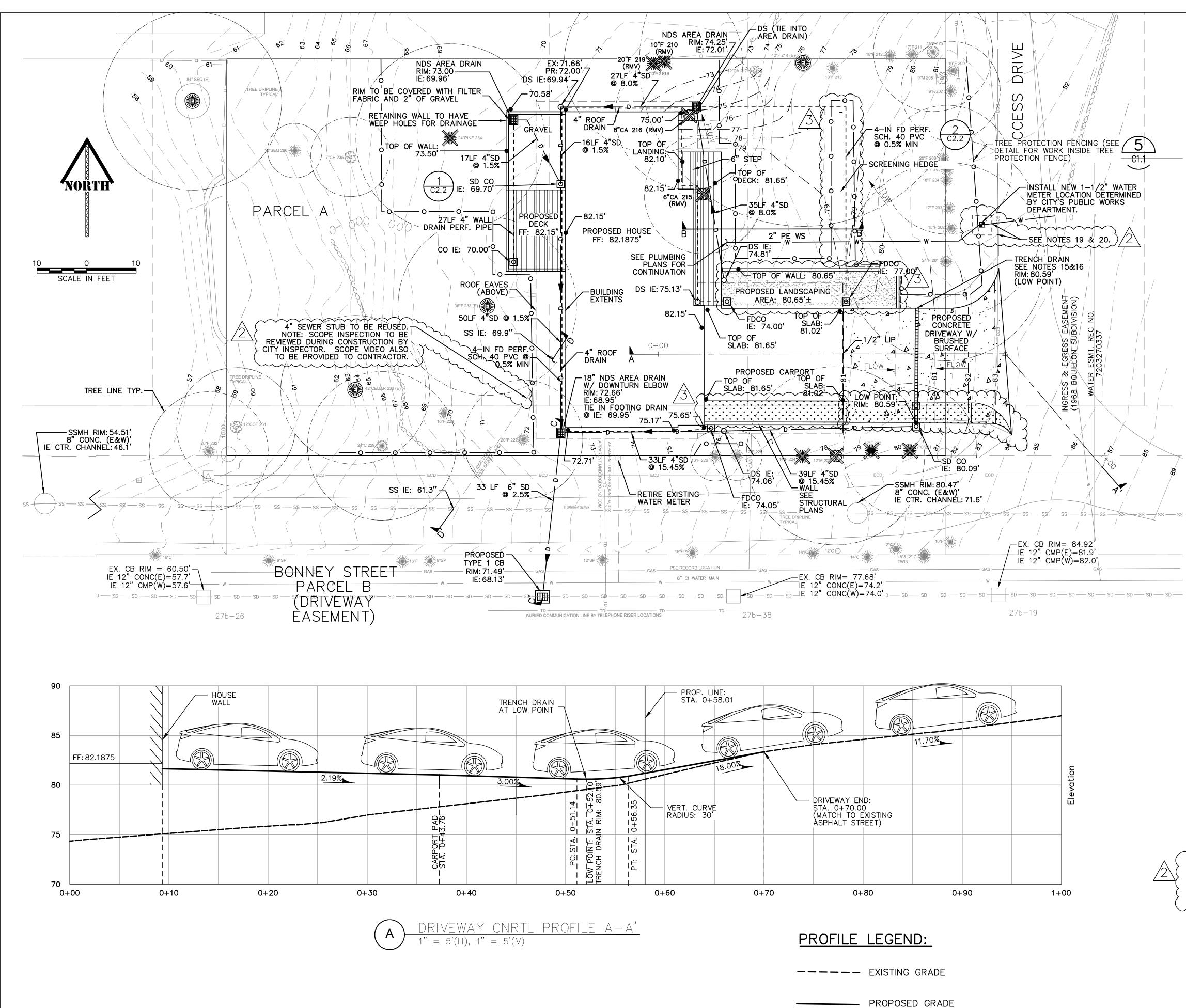
ON-SITE DRAINAGE SYSTEMS SHALL BE DESIGNED, CONSTRUCTED, AND STABILIZED TO PREVENT EROSION. STABILIZATION SHALL BE PROVIDED AT THE OUTLETS OF ALL DRAINAGE SYSTEMS THAT IS ADEQUATE TO PREVENT EROSION OF OUTLETS, ADJACENT STREAM BANKS, SLOPES, AND DOWNSTREAM REACHES.

11. CONTROL POLLUTANTS. MEASURES SHALL BE TAKEN TO CONTROL POTENTIAL POLLUTANTS. COMPLY WITH THE REQUIREMENTS OF WASHINGTON STATE DEPARTMENT OF ECOLOGY'S 2014 STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON (SWMMWW) VOLUME IV FOR EACH OF THE FOLLOWING CONSTRUCTION RELATED ACTIVITIES: POLLUTANT DISPOSAL (INCLUDING SEDIMENT, WASTE MATERIALS, AND DEMOLITION DEBRIS; CHEMICAL STORAGE: ON-SITE FUELING: MAINTENANCE, FUELING AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES; CLEANUP OF CONTAMINATED SURFACES: DISCHARGE OF WHEEL WASH WASTEWATER; FERTILIZER AND PESTICIDE APPLICATION; PH-MODIFYING SOURCES.

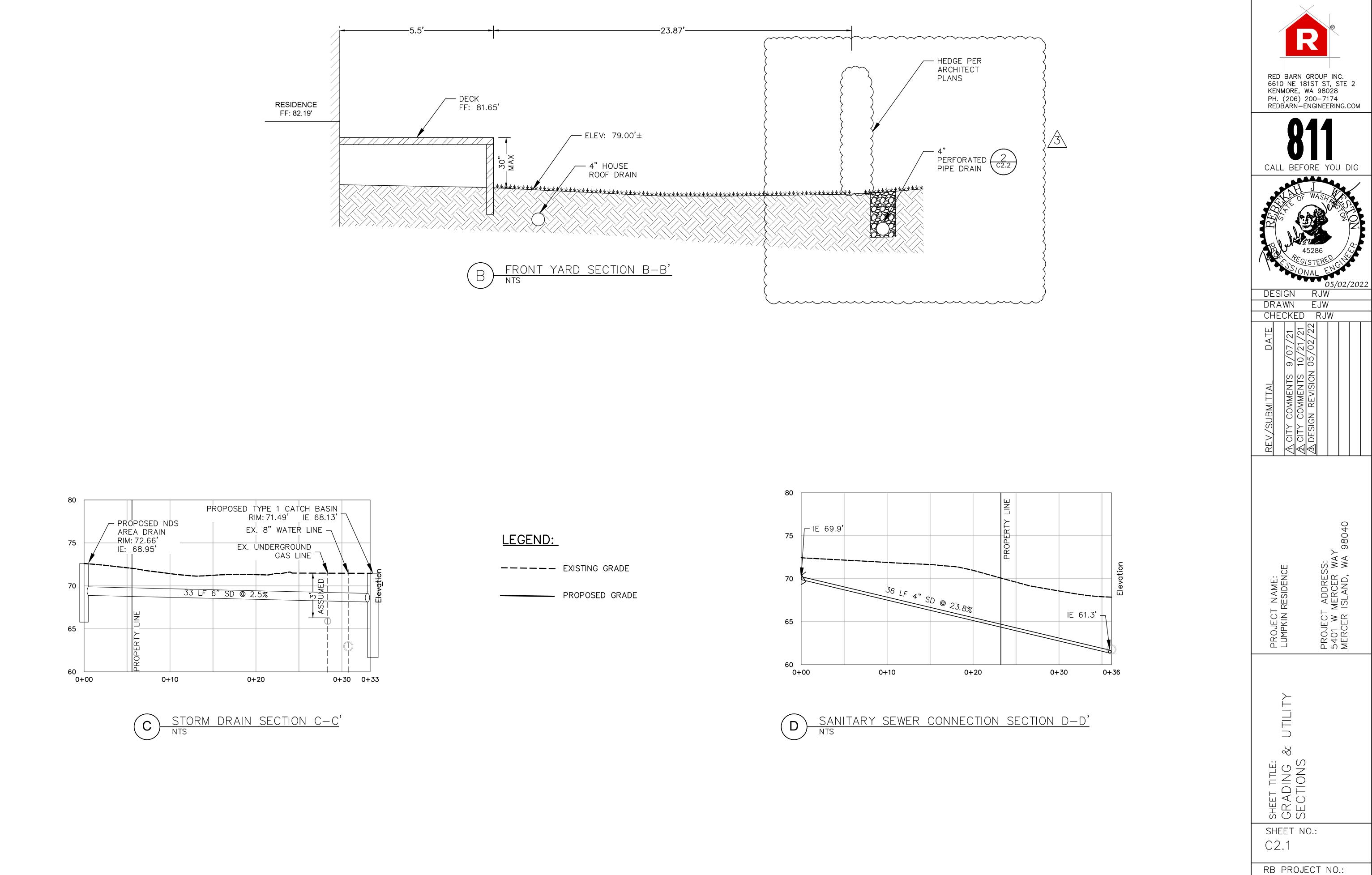
12. CONTROL DEWATERING. WHEN DEWATERING DEVICES DISCHARGE ON-SITE OR TO A PUBLIC DRAINAGE SYSTEM, DEWATERING DEVICES SHALL DISCHARGE INTO A SEDIMENT TRAP TO REMOVE SEDIMENT CONTAMINATION,

- SEDIMENT CONTROLS SHALL BE REMOVED WITHIN FIVE NEEDED, WHICHEVER IS LATER. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON-STIE. DISTURBED SOIL AREAS RESULTING FROM REMOVAL SHALL BE PERMANENTLY STABILIZED.
- STORMWATER CONTROL PLAN TO MAINTAIN COMPLIANCE.
- SHALL BE OPENDED AT ONE TIME.
- BE PHASED IN ORDER TO MINIMIZE THE AMOUNT OF LIMITATIONS.
- CONSIDERED COMPLETED, PERMANENTLY STABILIZE ALL PLANTING, OR SODDING.

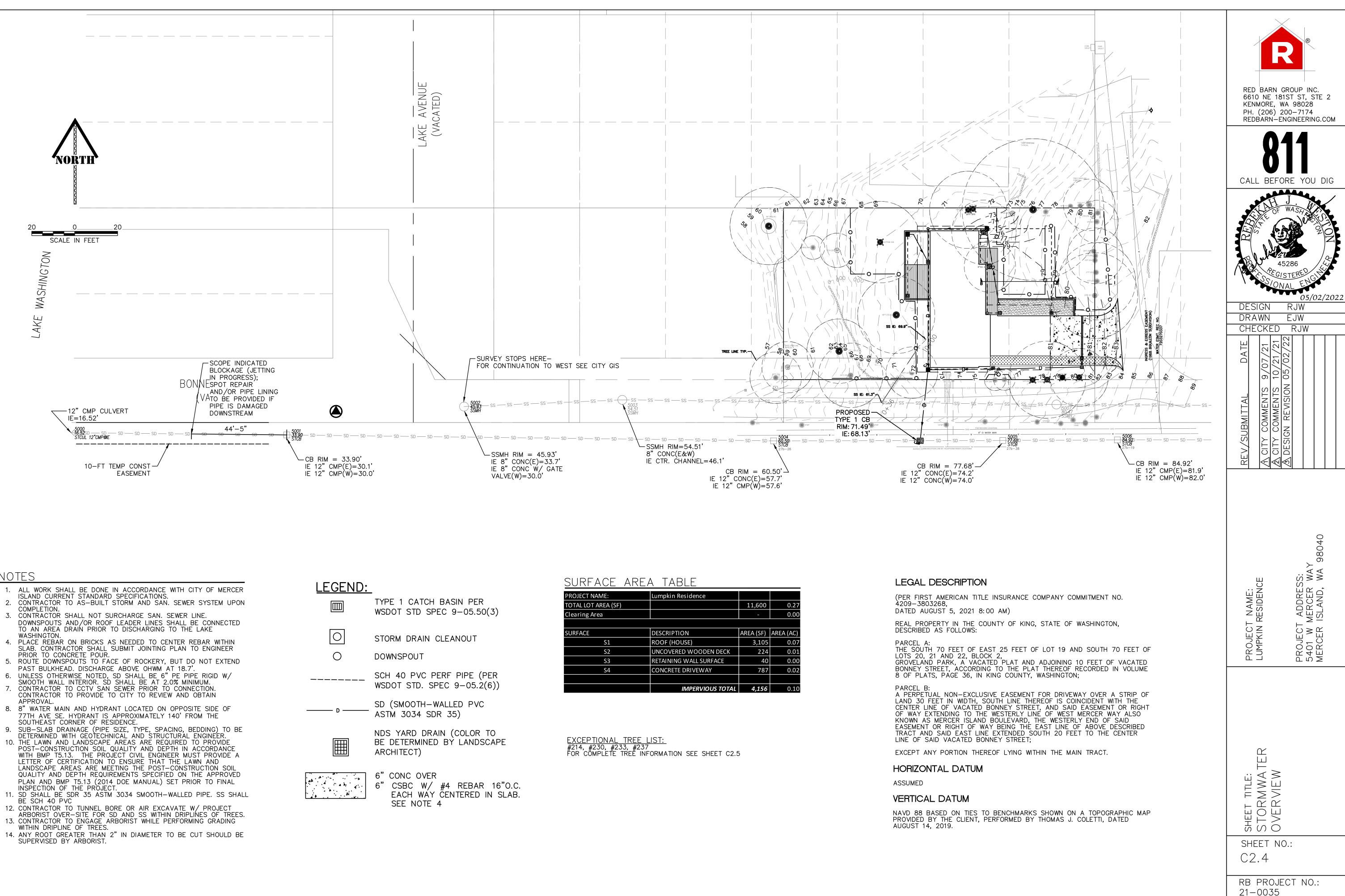




SURFACE AR	EA TABLE		
PROJECT NAME: TOTAL LOT AREA (SF) Clearing Area	Lumpkin Residence         11,600         0.27           Image: Comparison of the system o	R	®
SURFACE S1	DESCRIPTIONAREA (SF)AREA (AC)ROOF (HOUSE)3,1050.07		
S2 S3 S4	UNCOVERED WOODEN DECK2240.01RETAINING WALL SURFACE400.00CONCRETE DRIVEWAY7870.02	RED BARN GR 6610 NE 181S KENMORE, WA PH. (206) 200 REDBARN-ENO	T ST, STE 2 98028 D-7174
LEGEND:	<i>IMPERVIOUS TOTAL</i> <b>4,156</b> 0.10		
	TYPE 1 CATCH BASIN PER WSDOT STD SPEC 9–05.50(3)	CALL BEFOR	
0	STORM DRAIN CLEANOUT	CALL BEFOR	
0	DOWNSPOUT	THAT OF W	ASH
	SCH 40 PVC PERF PIPE (PER WSDOT STD. SPEC 9-05.2(6))	HE CONTRACT	
D	SD (SMOOTH-WALLED PVC ASTM 3034 SDR 35)	452 ASSIGNA	
	NDS YARD DRAIN (COLOR TO BE DETERMINED BY LANDSCAPE ARCHITECT)		05/02/2022 RJW
	6" CONC OVER 6" CSBC W/ #4 REBAR 16"O.C. EACH WAY CENTERED IN SLAB. SEE NOTE 4	DATE DATE O7/21 AD	RJW
<ol> <li>ISLAND CURRENT S</li> <li>CONTRACTOR TO AS COMPLETION.</li> <li>CONTRACTOR SHALL DOWNSPOUTS AND/ TO AN AREA DRAIN WASHINGTON.</li> <li>PLACE REBAR ON E SLAB. CONTRACTOR PRIOR TO CONCRET</li> <li>ROUTE DOWNSPOUTS</li> </ol>	E DONE IN ACCORDANCE WITH CITY OF MERCER TANDARD SPECIFICATIONS. S-BUILT STORM AND SAN. SEWER SYSTEM UPON NOT SURCHARGE SAN. SEWER LINE. OR ROOF LEADER LINES SHALL BE CONNECTED PRIOR TO DISCHARGING TO THE LAKE BRICKS AS NEEDED TO CENTER REBAR WITHIN SHALL SUBMIT JOINTING PLAN TO ENGINEER E POUR. S TO FACE OF ROCKERY, BUT DO NOT EXTEND ISCHARGE ABOVE OHWM AT 18.7'.	REV/SUBMITTAL A CITY COMMENTS 9/ CITY COMMENTS 10 DESIGN REVISION 05	1
<ul> <li>SMOOTH WALL INTER</li> <li>CONTRACTOR TO CONTRACTOR TO PERPROVAL.</li> <li>8. 8" WATER MAIN AN 77TH AVE SE. HYDER SOUTHEAST CORNER</li> <li>SUB-SLAB DRAINAGE DETERMINED WITH GOT-CONSTRUCTION OF THE LAWN AND LAN POST-CONSTRUCTION WITH BMP T5.13. LETTER OF CERTIFICE LANDSCAPE AREAS QUALITY AND DEPTHER PLAN AND BMP T5. INSPECTION OF THE</li> <li>SD SHALL BE SDR BE SCH 40 PVC</li> <li>CONTRACTOR TO TUR ARBORIST OVER-SITISTICTION OF THE</li> <li>SD SHALL BE SDR BE SCH 40 PVC</li> <li>CONTRACTOR TO TUR ARBORIST OVER-SITISTICTION OF THE</li> <li>SD SHALL BE SDR BE SCH 40 PVC</li> <li>CONTRACTOR TO TUR ARBORIST OVER-SITISTICTION OF THE</li> <li>SUPERVISED BY ARITISTICTION OF THE</li> <li>SUPERVISED BY ARITISTICTION OF THE</li> <li>CONTRACTOR TO IN GALVANIZED EDGE FOMPLETE) WITH LITISTING SEVER LIN GALVANIZED EDGE FOMPLETE) WITH LITISTING SEVER LIN REPORT STATES RE EXCEEDING 15%, TH PAVEMENT WITH A ROADS AND DRIVEW HAVE ASPHALT SUP</li> <li>EXISTING SEWER LIN REPORT STATES RE CLEANED JETTED TO TO</li></ul>	E (PIPE SIZE, TYPE, SPACING, BEDDING) TO BE ECOTECHNICAL AND STRUCTURAL ENGINEER. NDSCAPE AREAS ARE REQUIRED TO PROVIDE IN SOIL QUALITY AND DEPTH IN ACCORDANCE THE PROJECT CIVIL ENGINEER MUST PROVIDE A CATION TO ENSURE THAT THE LAWN AND ARE MEETING THE POST-CONSTRUCTION SOIL H REQUIREMENTS SPECIFIED ON THE APPROVED 13 (2014 DOE MANUAL) SET PRIOR TO FINAL PROJECT. 35 ASTM 3034 SMOOTH-WALLED PIPE. SS SHALL INNEL BORE OR AIR EXCAVATE W/ PROJECT TE FOR SD AND SS WITHIN DRIPLINES OF TREES. NGAGE ARBORIST WHILE PERFORMING GRADING TREES. 8 THAN 2" IN DIAMETER TO BE CUT SHOULD BE BORIST. STALL TRENCH DRAIN CKG100-23 4" WIDE K100 POLYMER CONCRETE TRENCH DRAIN KIT (23 FOOT NEAR FALL, OR EQUIVALENT TRENCH DRAIN. METER TRENCH DRAIN CHANNELS, 7 1-METER GALVANIZED REINFORCED SLOTTED STANDARD OR 2 UNIVERSAL INLET/OUTLET END CAPS. OADS AND DRIVEWAYS WITH A GRADIENT E SURFACE SHALL BE CEMENT CONCRETE BRUSHED SURFACE FOR TRACTION. ACCESS (AYS WITH GRADIENTS OF 15% OR LESS MAY	TITLE: ING AND LUMPKIN RESIDENCE	PROJECT ADDRESS: 5401 W MERCER WAY MERCER ISLAND, WA 98040
EXCEPTIONAL TREE #214, #230, #233, #23 FOR COMPLETE TREE II	<u>LIST:</u> 37 NFORMATION SEE SHEET C2.5	LITITU TARACTINO. C2.0	
		RB PROJEC 21-0035	71 NO.:



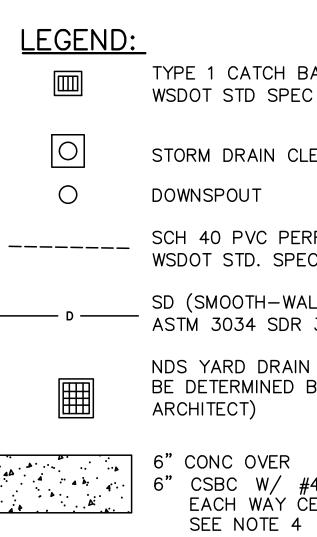
21-0035



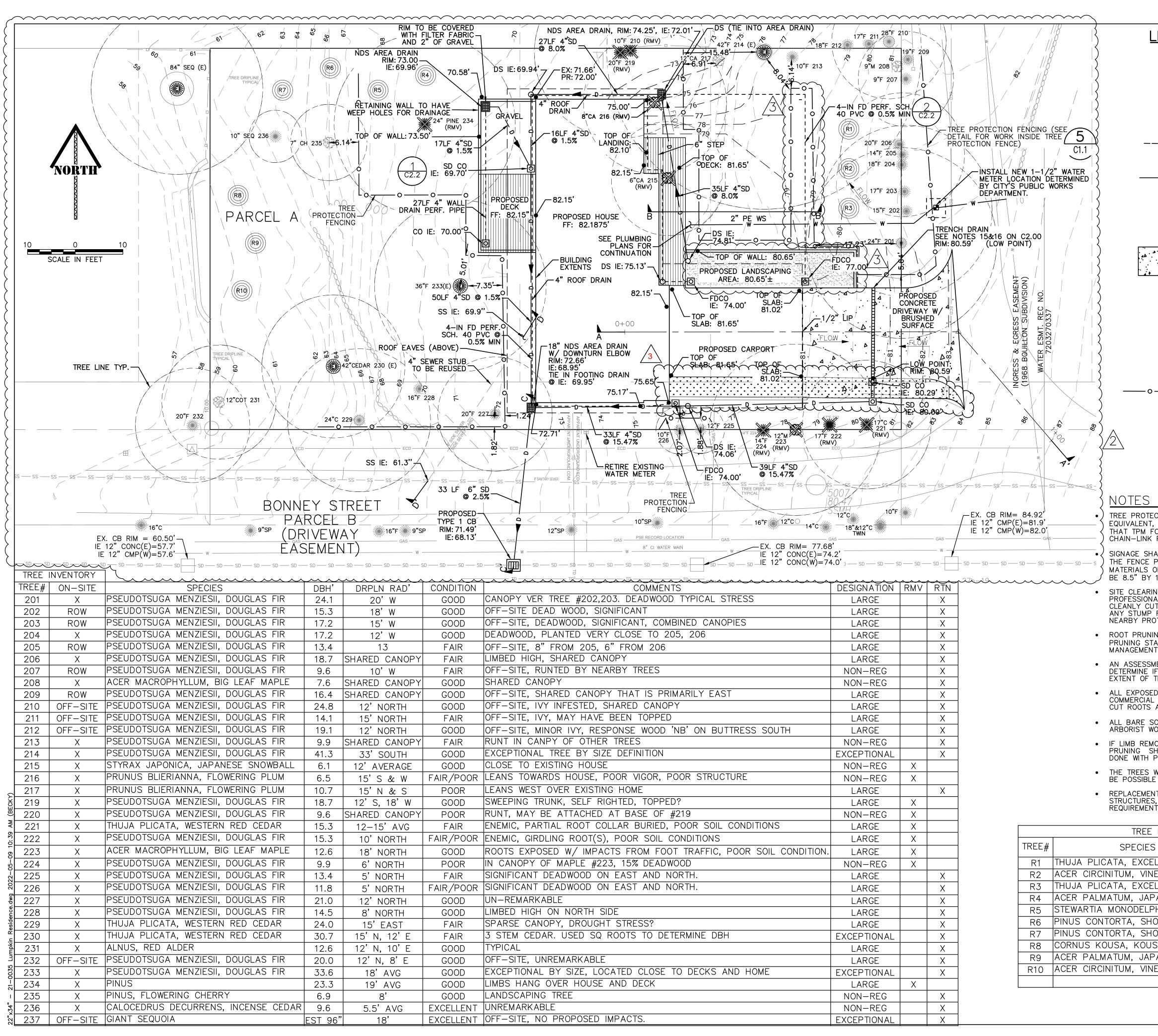
### NOTES

- 8. 8" WATER MAIN AND HYDRANT LOCATED ON OPPOSITE SIDE OF
- 10. THE LAWN AND LANDSCAPE AREAS ARE REQUIRED TO PROVIDE

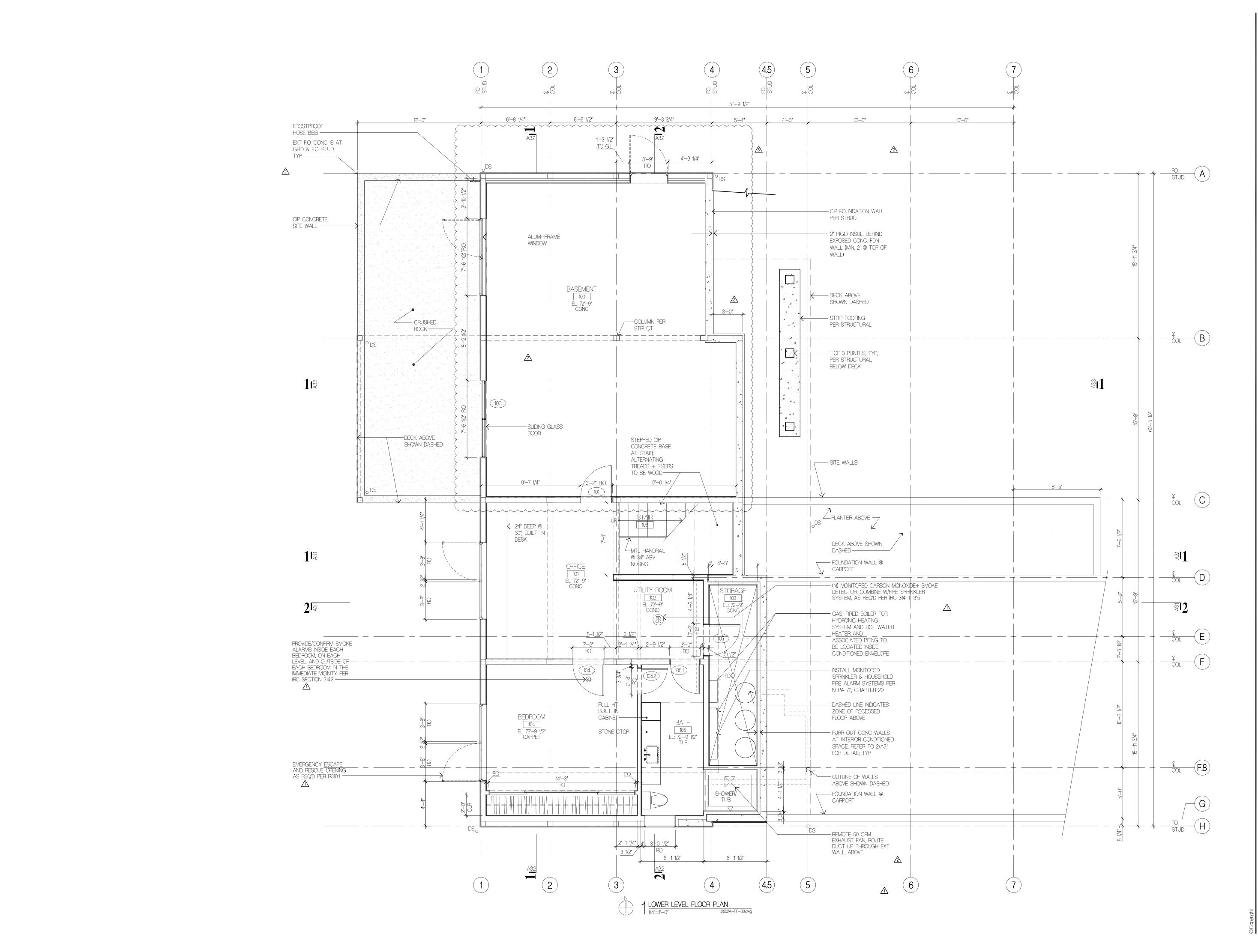
- 14. ANY ROOT GREATER THAN 2" IN DIAMETER TO BE CUT SHOULD BE



ROJECT NAME:	Lumpkin Residence		
DTAL LOT AREA (SF)		11,600	0.27
earing Area		_	0.00
JRFACE	DESCRIPTION	AREA (SF)	AREA (AC)
S1	ROOF (HOUSE)	3,105	0.07
S2	UNCOVERED WOODEN DECK	224	0.01
S3	RETAINING WALL SURFACE	40	0.00
S4	CONCRETE DRIVEWAY	787	0.02
	IMPERVIOUS TOTAL	4,156	0.10



EGEND:			
	TYPE 1 CATCH BASIN PER WSDOT STD SPEC 9-05.50(3)		e
0	STORM DRAIN CLEANOUT		
0	DOWNSPOUT	KENMORE, W	ST ST, STE 2 A 98028
	SCH 40 PVC PERF PIPE (PER WSDOT STD. SPEC 9-05.2(6))	PH. (206) 20 REDBARN-EN	DO-7174 IGINEERING.COM
D	SD (SMOOTH-WALLED PVC ASTM 3034 SDR 35)	<b>R</b>	
	NDS YARD DRAIN (COLOR TO BE DETERMINED BY LANDSCAPE ARCHITECT)	CALL BEFO	RE YOU DIG
	6" CONC OVER 6" CSBC W/ #4 REBAR 16"O.C. EACH WAY CENTERED IN SLAB. SEE NOTE 4	H H OF	WASAY CON
$\times$	TREE TO BE REMOVED		286
RX	TREE TO BE PLANTED/REPLACED	SSION	AL ENG 05/02/2022
	EXCEPTIONAL TREE	DESIGN DRAWN CHECKED	RJW EJW RJW
o	TREE PROTECTION FENCING- CHAIN LINK FENCE (PER ARBORIST, TREE FENCING HAS BEEN ADDRESSED IN THE ARBORIST REPORT FOR BEST LOCATION.)	TTAL DATE MENTS 9/07/21 MENTS 10/21/21	77 / 70 / C0
CTION MEASURE STAKED INTO I OR THE TREES PANELS SECUR	S (TPM) SHOULD BE 4' TALL ORANGE POLY FENCING, OR PLACE AT THE LIMITS OF DISTURBANCES (LOD), EXCEPT LOCATED ALONG THE ROW SHALL BE 6' TALL ED IN PLACE.	REV/SUBMI A CITY CON	
PROVIDES A "TF OR EQUIPMENT /	ED EVERY 20' ALONG THE SECTIONS OF TPM STATING REE PROTECTION ZONE" — "NO SOILS, BUILDING ALLOWED IN PROTECTION ZONE". THESE SIGNS SHOULD E TO BE WEATHER RESISTANT.		
AL TREE PERSO JT AS-IF IT WER	ND EXCAVATION SHOULD BE MONITORED BY A N. ANY ROOTS ENCOUNTERED SHOULD BE SHOULD BE RE A ROOT FROM A TREE SCHEDULED FOR RETENTION. I'LD BE CONSIDERED FOR ITS POTENTIAL IMPACT OF		8040
	, SHOULD BE UNDERTAKEN WITH CARE. ADDITIONAL DETAILED IN ANSI STANDARD A300 (PART8)—2013 ROOT		S: WAY WA 98
	NCOUNTERED ROOTS SHOULD BE UNDERTAKEN TO RETAINED TREES INCUR ROOT IMPACTS AND THE CTS.	NAME: ESIDENCE	NDDRESS ERCER V LAND, V
	D BE COVERED WITH MOST NATIVE SOIL OR A MULCH PRODUCT, SUFFICIENT TO COVER THE FRESHLY REASONABLE.		ECT AE W MEF ER ISL
	HE RETAINED TREES SHOULD BE COVERED WITH 3" OF A COMMERCIAL MULCH MATERIAL.	PROJECT LUMPKIN F	0 0 1 CCI
HOULD BE UNDE PROPER PRUNIN	D IN ORDER TO PROVIDE BUILDING CLEARANCE, SUCH RTAKEN BY A TREE PROFESSIONAL AND SHOULD BE G EQUIPMENT FROM ADDITIONAL SUMMER-TIME HYDRATION, AS MAY		DR 540 ME
E NT TREES TO BE	PLANTED AT LEAST 10-FEET AWAY FROM EACH OTHER, UTILITIES. REFER TO MICC19.10 FOR TREE CODE		
REPLACEMEN	IT LIST	-AN	
5	SIZE AT NATIVE		
LSA E MAPLE	6'+ YES 2" CALIPER YES		
ILSA PANESE MAPL	6'+ YES E 2" CALIPER NO	ANE ANE	
РНА	2" CALIPER NO	SHEET TREE COMP	
ORE PINE ORE PINE	6'+ YES 6'+ YES	SHE CO CO	
SA DOGWOOD PANESE MAPL		SHEET NC	).:
E MAPLE	2" CALIPER YES	C2.5	
	60% NATIVE	RB PROJE 21-0035	CT NO.:
		21-0000	

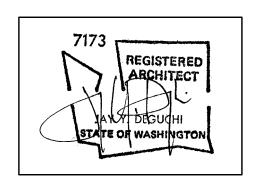


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 Seattle, Washington 98108

Project Title LUMPKIN RESIDENCE 5401 W. MERCER WAY MERCER ISLAND, WA, 98040



# Drawing Title LOWER LEVEL FLOOR PLAN

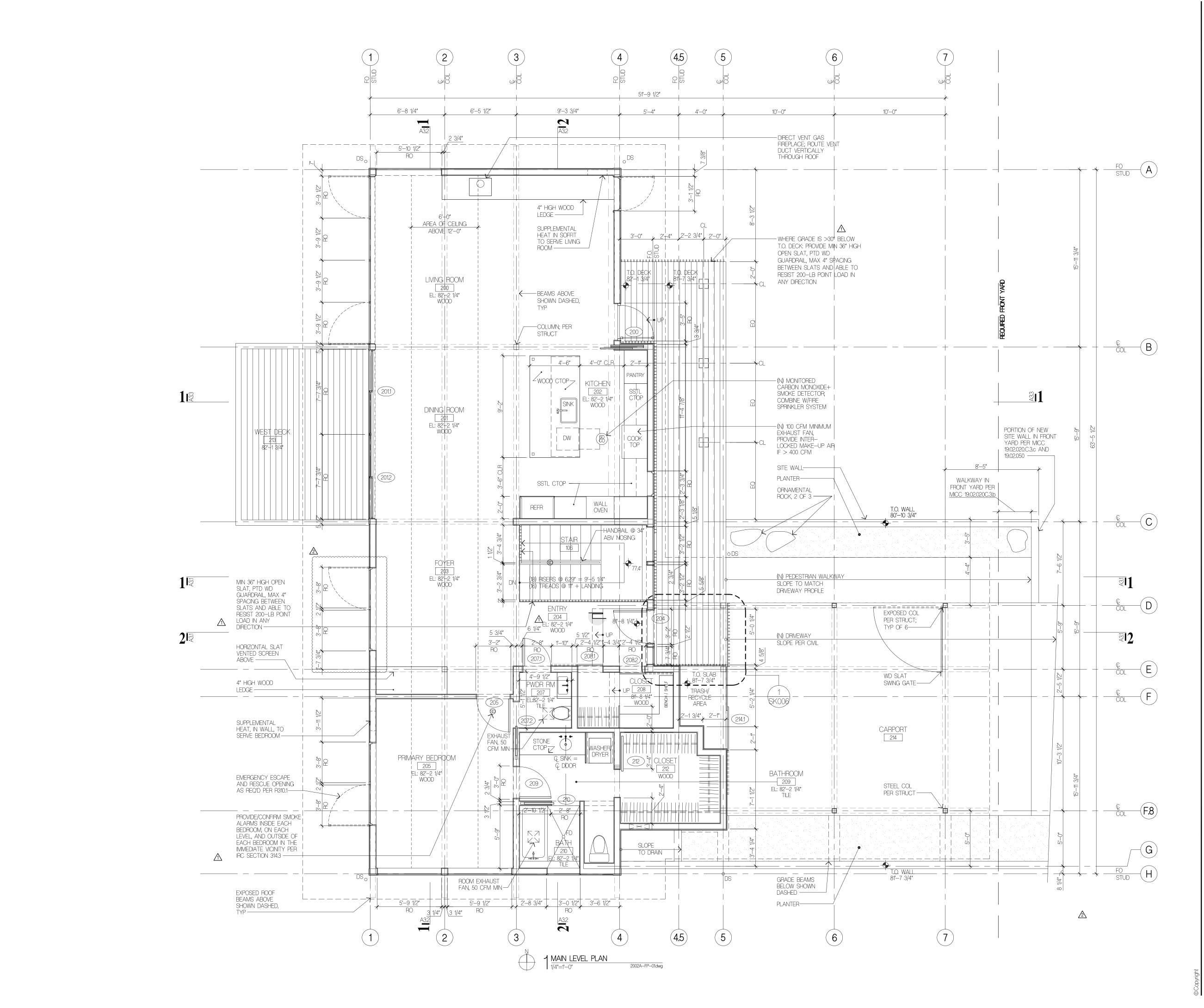
Date 03/17/2021

Job No. 2002

ISSUE	DATE
DD PRICING SET	09/28/2020
PERMIT SET	03/17/2021
PERMIT CORRECTION #1	09/01/2021
PERMIT REVISION #1	04/28/2022
A PERMIT REVISION #2	01/12/2024

PERMIT REVISION #2 Sheet No.

A1.0

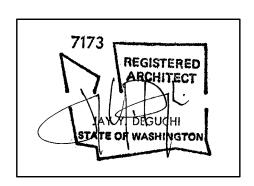


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Project Title LUMPKIN RESIDENCE 5401 W. MERCER WAY MERCER ISLAND, WA, 98040

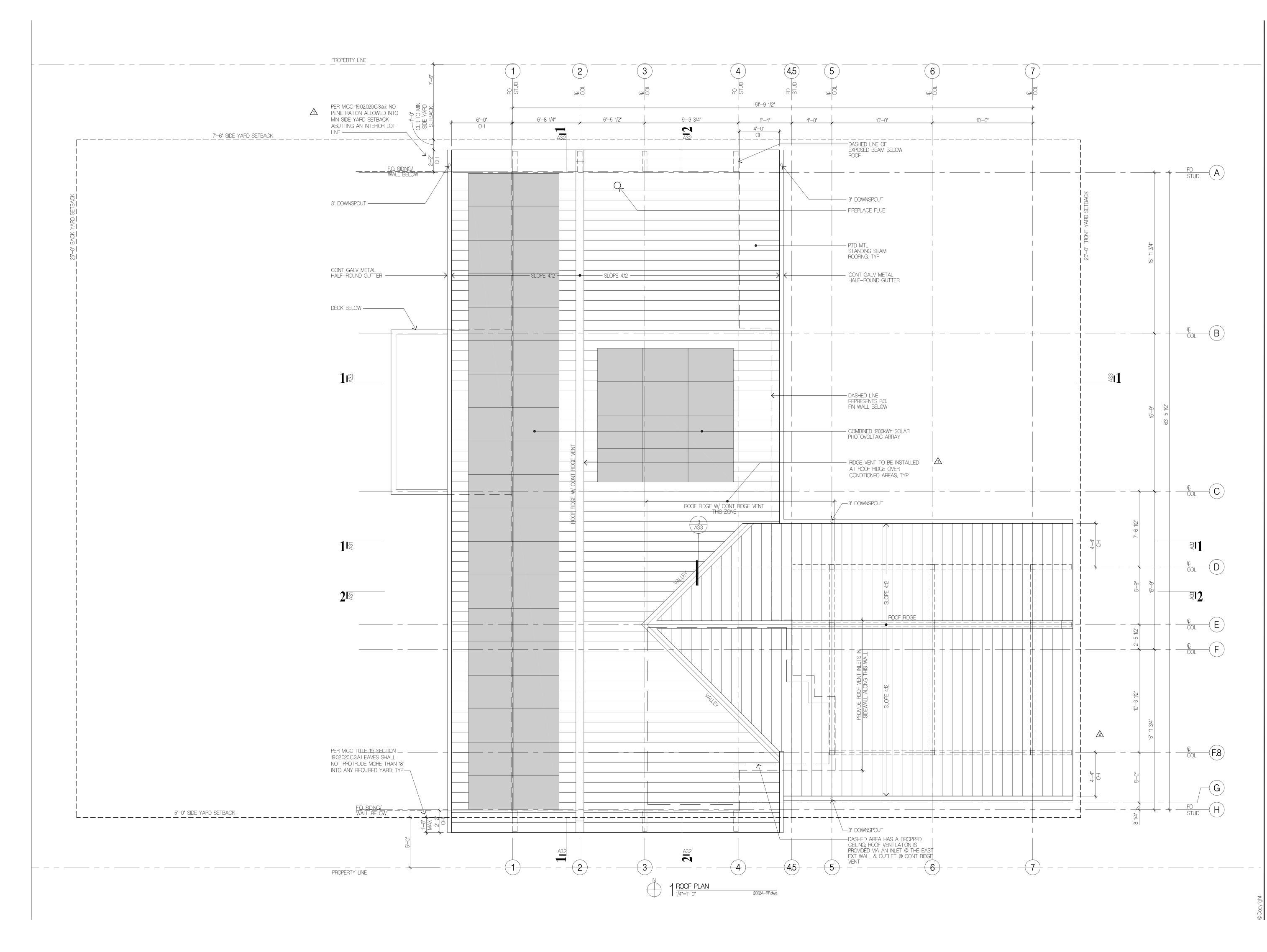


Drawing Title
MAIN LEVEL FLOOR PLAN

Date 03/17/2021

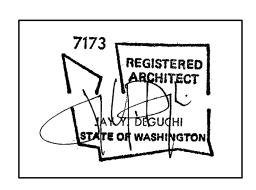
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ISS	SUE	DATE
	DD PRICING SET	09/28/2020
	PERMIT SET	03/17/2021
	PERMIT CORRECTION #1	09/01/2021
$\triangle$	PERMIT REVISION #1	04/28/2022
	PERMIT REVISION #2	01/12/2024



Suyama Peterson Deguchi8601 8th Avenue SouthSeattle, Washington 98108P 206.256.0809P

Project Title **LUMPKIN RESIDENCE** 5401 W. MERCER WAY MERCER ISLAND, WA, 98040



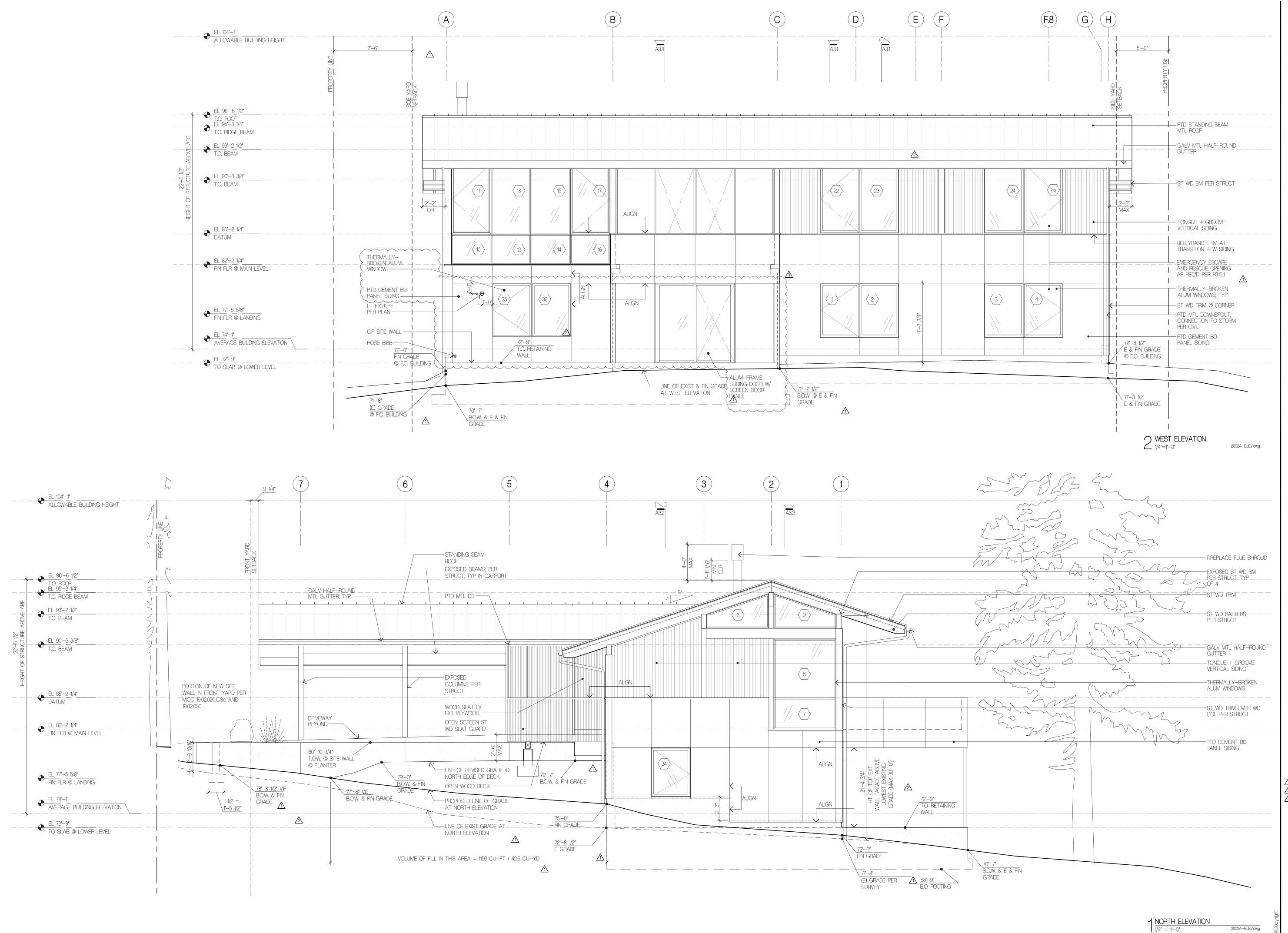
Drawing Title **ROOF PLAN** 

Date 03/17/2021 Job No. 2002

ISS	SUE	DATE
	PERMIT SET	03/17/2021
$\triangle$	PERMIT CORRECTION #1	09/01/2021
	PRICING SET	11/19/2021
$\triangle$	PERMIT REVISION #1	04/28/2022
	PERMIT REVISION #2	01/12/2024

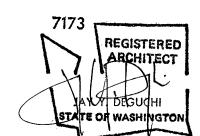
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A1.2



Suyama Peterson Deguchi 8601 8th Avenue South Seattle, Washington 98108 P 206,256.0809

Project Title **LUMPKIN RESIDENCE** 5401 W. MERCER WAY MERCER ISLAND, WA, 98040



# Drawing Title **BUILDING ELEVATIONS**

Date 03/17/2021 Job No. 2002

ISSUE DD PRICING SET PERMIT SET  $\triangle$  PERMIT CORRECTION # PERMIT REVISION #1 A PERMIT REVISION #2

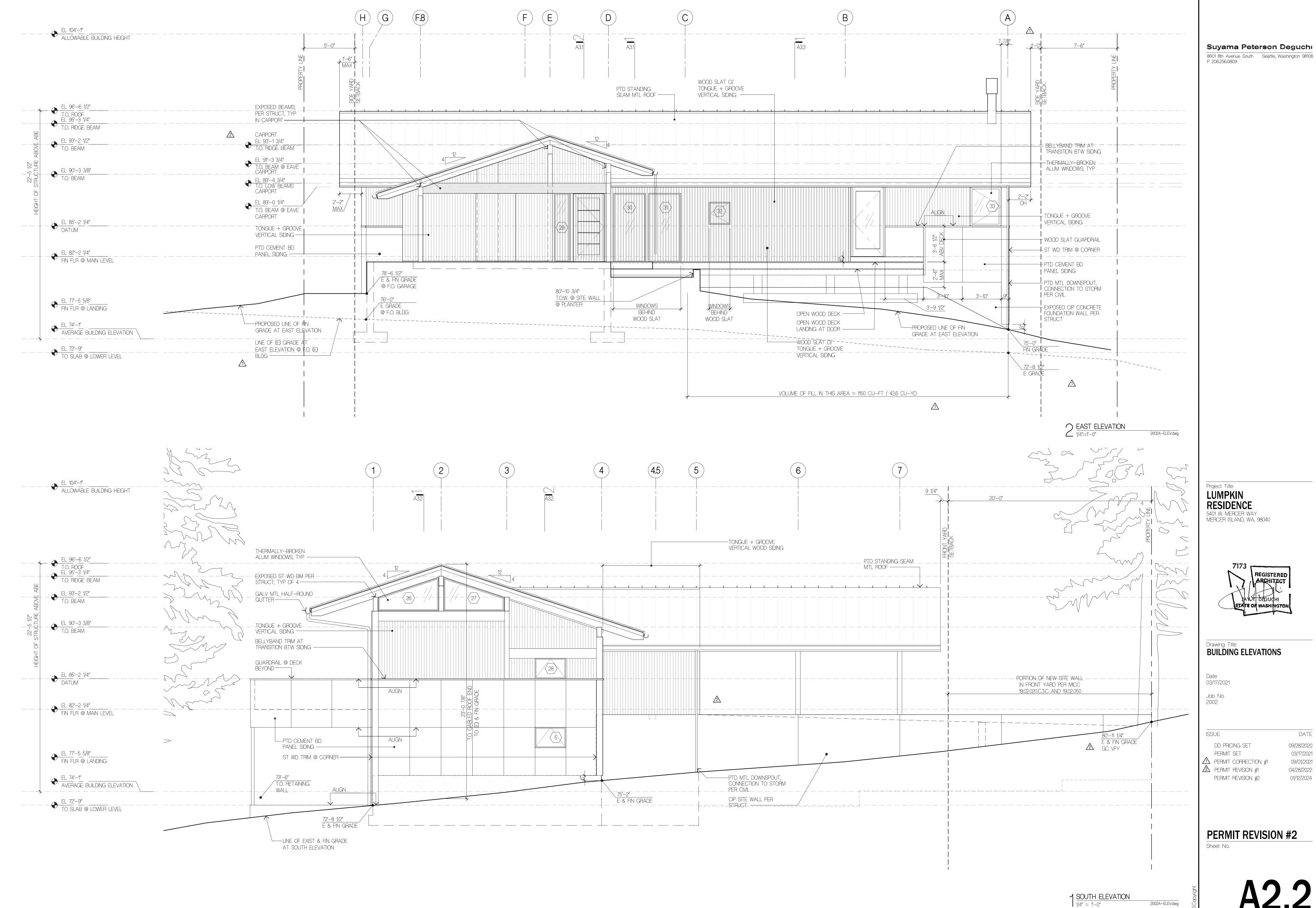
DATE 09/28/2020 03/17/2021 09/01/2021 04/28/2022 01/12/2024

# PERMIT REVISION #2

Sheet No.

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A2.1



Suyama Peterson Deguchi

ISS	SUE	DATE
	DD PRICING SET	09/28/2020
	PERMIT SET	03/17/2021
$\triangle$	PERMIT CORRECTION #1	09/01/2021
$\triangle$	PERMIT REVISION #1	04/28/2022
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A2.2

### APPLIANCE PACKAGE SCHEDULE (WSEC TABLE 406.3 OPTION 7)

APPLIANCE	MFR	MODEL #	SIZE	FINISH	ENERGY STAR
DISHWASHER	MIELE	G 4993 SCVi AM	24" W	PANEL READY	Y
REFRIGERATOR	MIELE	KFNF 9955 iDE	36" W	SSTL	Y
WASHING MACHINE	FISHER PAYKEL	WH2424P2	24" W	WHITE	Y
DRYER - VENTLESS	FISHER PAYKEL	DE4024P2	24" W	WHITE	Y
	REFRIGERATOR WASHING MACHINE	DISHWASHER MIELE REFRIGERATOR MIELE WASHING MACHINE FISHER PAYKEL	DISHWASHER MIELE G 4993 SCVi AM REFRIGERATOR MIELE KFNF 9955 iDE WASHING MACHINE FISHER PAYKEL WH2424P2	DISHWASHERMIELEG 4993 SCVi AM24" WREFRIGERATORMIELEKFNF 9955 iDE36" WWASHING MACHINEFISHER PAYKELWH2424P224" W	DISHWASHERMIELEG 4993 SCVi AM24" WPANEL READYREFRIGERATORMIELEKFNF 9955 iDE36" WSSTLWASHING MACHINEFISHER PAYKELWH2424P224" WWHITE

2002A-ELEV.dwg

2018 WASHINGTON STATE ENERGY CODE COMPLIANCE METHOD: CHAPTER 4 PRESCRIPTIVE REQUIREMENTS APPROACH, CLIMATE ZONE 4C, UNLIMITED GLAZIN WINDOW SCHEDULE I.D. MANUF. DESCRIPTION R.O. HEIGHT R.O. WIDTH U-VAL. SHGC NFRC IN. IN. 1 FLEETWOOD ALUMINUM CASEMENT 0.28 0.29 FLE-M-111-00044-00001 9 1/4 2 FLEETWOOD ALUMINUM PICTURE 0.28 0.35 FLE-M-113-00044-00001 9 1/4 FLEETWOOD ALUMINUM PICTURE 3 0.28 0.35 FLE-M-113-00044-00001 9 1/4 4 FLEETWOOD ALUMINUM CASEMENT 0.28 0.35 FLE-M-111-00044-00001 9 1/4 5 FLEETWOOD ALUMINUM PICTURE 0.28 1/2 0.35 FLE-M-113-00044-00001 6 FLEETWOOD ALUMINUM PICTURE FLE-M-113-00044-00001 0.28 0.35 0 3 7 FLEETWOOD ALUMINUM PICTURE 0.28 0.35 FLE-M-113-00044-00001 0 0 8 FLEETWOOD ALUMINUM PICTURE FLE-M-113-00044-00001 0.28 0.35 7 0 9 FLEETWOOD ALUMINUM PICTURE 0.28 0.35 FLE-M-113-00044-00001 0 3 10 FLEETWOOD ALUMINUM PICTURE 0.28 0.35 FLE-M-113-00044-00001 9 1/2 0 11 FLEETWOOD ALUMINUM CASEMENT 9 1/2 0.28 0.29 FLE-M-111-00044-00001 7 12 FLEETWOOD ALUMINUM PICTURE 0.28 0.35 FLE-M-113-00044-00001 9 1/2 0 13 FLEETWOOD ALUMINUM PICTURE 0.28 9 1/2 0.35 FLE-M-113-00044-00001 14 FLEETWOOD ALUMINUM PICTURE 0.28 0.35 FLE-M-113-00044-00001 9 1/2 15 FLEETWOOD ALUMINUM PICTURE 9 1/2 0.28 0.35 FLE-M-113-00044-00001 16 FLEETWOOD ALUMINUM PICTURE 0.35 FLE-M-113-00044-00001 9 1/2 0.28 0 17 FLEETWOOD ALUMINUM CASEMENT 0.28 0.29 FLE-M-111-00044-00001 9 1/2 NOT USED 18 NOT USED 19 NOT USED 20 21 NOT USED 22 FLEETWOOD ALUMINUM CASEMENT 0.29 FLE-M-111-00044-00001 9 1/4 0.28 7 23 FLEETWOOD ALUMINUM PICTURE 0.28 0.35 FLE-M-113-00044-00001 9 1/4 7 24 FLEETWOOD ALUMINUM PICTURE 0.28 0.35 FLE-M-113-00044-00001 9 1/4 7 25 FLEETWOOD ALUMINUM CASEMENT 0.28 0.29 FLE-M-111-00044-00001 9 1/4 7 26 FLEETWOOD ALUMINUM PICTURE 0.28 0.35 FLE-M-113-00044-00001 0 3 27 FLEETWOOD ALUMINUM PICTURE 0.28 0.35 FLE-M-113-00044-00001 0 3 FLE-M-113-00044-00001 28 FLEETWOOD ALUMINUM PICTURE 0.28 0.35 1/2 11 29 FLEETWOOD ALUMINUM PICTURE 0.28 0.35 FLE-M-113-00044-00001 7 1/4 30 FLEETWOOD ALUMINUM PICTURE 0.28 0.35 FLE-M-113-00044-00001 2 1/2 9 31 FLEETWOOD ALUMINUM PICTURE 0.28 0.35 FLE-M-113-00044-00001 2 1/2 32 FLEETWOOD ALUMINUM CASEMENT 0.28 0.29 FLE-M-111-00044-00001 3 3/4 33 FLEETWOOD ALUMINUM CASEMENT 0.28 0.29 FLE-M-111-00044-00001 1 1/2 34 FLEETWOOD ALUMINUM CASEMENT 0.28 0.29 FLE-M-111-00044-00001 9 35 FLEETWOOD ALUMINUM CASEMENT 0.28 0.29 FLE-M-111-00044-00001 9 1/4 0.35 36 FLEETWOOD ALUMINUM PICTURE 0.28 FLE-M-113-00044-00001 9 1/4  $\overline{}$  $\overline{}$  $\overline{\phantom{a}}$ WINDOW SUBTOTAL GLAZED EXTERIOR DOOR SCHEDULE MANUF. DESCRIPTION NFRC R.O. WIDTH R.O. HEIGHT I.D SHGC U-VAL. IN IN 100 FLEETWOOD ALUMINUM DOOR, OX SLIDER 0.30 0.32 FLE-M-75-00208-00001 9 3/4 7 <u>∕3∖</u> 200 FLEETWOOD ALUMINUM DOOR, SINGLE LITE 0.30 0.27  $\overline{5}$  $\sim$ FLE-M-106-00329-00001 201.1 FLEETWOOD ALUMINUM DOOR, XO SLIDER 0.32 FLE-M-75-00208-00001 0.30 7 3/4 9 201.2 FLEETWOOD ALUMINUM DOOR, OX SLIDER 0.32 FLE-M-75-00208-00001 0.30 7 3/4 9 GLAZED DOOR SUBTOTAL OPAQUE EXTERIOR DOOR SCHEDULE 101 TBD SOLID CORE WOOD DOOR 2 204 TBD SOLID CORE WOOD DOOR 2 GLAZED DOOR SUBTOTAL WINDOW SUBTOTAL FENESTRATION TOTAL GLAZING AREA-WEIGHTED U-FACTOR OPAQUE DOOR TOTAL OPAQUE DOOR AREA-WEIGHTED U-FACTOR

**NOTES:** 1. WINDOWS ARE REFERENCED ON EXTERIOR ELEVATIONS. DOORS ARE REFERENCED ON FLOOR PLANS.

2. BOD IS FLEETWOOD SERIES 450-T. ALL WINDOWS TO MEET U-FACTOR AS STATED ABOVE, TO MEET THE 2018 PRESCRIPTIVE ENERGY CODE FOR C 3. ALL WINDOWS WITHIN A 2-FOOT ARC OF A DOOR AND 60" OR LESS ABOVE FLOOR MUST HAVE TEMPERED GLASS.

4. ALL WINDOWS 18" OR LESS ABOVE FLOOR MUST HAVE TEMPERED GLASS.

5. TYPICAL RO = UNIT SIZE + 1/2"; CONTRACTOR TO VERIFY ALL R.O.'S AFTER FRAMING IS COMPLETE AND PRIOR TO ORDERING DOORS AND WINDOWS 6. THESE UNITS ARE POLYGON; REFER TO EXTERIOR ELEVATIONS FOR EXACT R.O. DIMENSIONS

> 1 WINDOW AND DOOR SCHEDULE 2002A-ELEV.dwg

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	AREA	UxA	ORIEN-	OPERATION	FRAME	SAFETY	NOTES
	SF		TATION		MATERIAL	GLASS	
4	19.2	5.4	W	SWING	ALUM.		
1	19.2	5.4	W	FIXED	ALUM.		
1	19.2	5.4	W	FIXED	ALUM.		
4	19.2	5.4	W	SWING	ALUM.		EMERGENCY EGRESS
	6.2	1.7	S	FIXED	ALUM.		
2	19.8	5.5	Ν	FIXED	ALUM.		6
	18.0	5.0	Ν	FIXED	ALUM.	YES	
8	33.9	9.5	Ν	FIXED	ALUM.		
2	19.8	5.5	Ν	FIXED	ALUM.		6
	11.4	3.2	W	FIXED	ALUM.	YES	
4	25.2	7.1	W	SWING	ALUM.		
	11.4	3.2	W	FIXED	ALUM.	YES	
4	25.2	7.1	W	FIXED	ALUM.		
	11.4	3.2	W	FIXED	ALUM.	YES	
4	25.2	7.1	W	FIXED	ALUM.		
	11.4	3.2	W	FIXED	ALUM.	YES	
4	25.2	7.1	W	FIXED	ALUM.		
4	25.1	7.0	W	FIXED	ALUM.		
4	25.1	7.0	W	FIXED	ALUM.		
4	25.1	7.0	W	FIXED	ALUM.		
4	25.1	7.0	W	SWING	ALUM.		EMERGENCY EGRESS
2	19.8	5.5	S	FIXED	ALUM.		6
2	19.8	5.5	S	FIXED	ALUM.		6
/4	8.9	2.5	S	FIXED	ALUM.		
4	10.9	3.0	E	FIXED	ALUM.	YES	
4	21.7	6.1	E	FIXED	ALUM.		
4	21.7	6.1	E	FIXED	ALUM.		
4	5.3	1.5	E	FIXED	ALUM.		
4	12.8	3.6	E	SWING	ALUM.		
2	17.7	4.9	N W	SWING	ALUM.		
4	19.2 19.2	5.4 5.4		SWING FIXED	ALUM. ALUM.		
	598.1	167.5					
	AREA	UxA	ORIEN-	OPERATION	FRAME	SAFETY	NOTES
	SF		TATION		MATERIAL	GLASS	
4	59.7	17.9	W	SLIDER	ALUM	YES	<u> </u>
	23.9	7.2		SWING	ALUM	YES	<u> </u>
4	74.7	22.4		SLIDER	ALUM	YES	
, 1	74.7	22.4		SLIDER	ALUM	YES	
				02.02.1	,		
	173.3	52.0					
	I	J					
	21.4		N	SWING	WOOD	_	
	21.4		E	SWING	WOOD	-	
	173.3	52.0					
	598.1		SEE WINDO	OW SCHEDULE	ABOVE		
	771.5	219.5					
			≤ 0.30 MAX	IMUM ALLOWEI	D FENESTRA	TION U-FAC	TOR
				18 WSEC TABLE			
	21.4	0.0	-				
	'I	0.00					

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Project Title LUMPKIN RESIDENCE

5401 W. MERCER WAY MERCER ISLAND, WA, 98040

7173

Drawing Title SCHEDULES

Date 03/17/2021 Job No. 2002

ISSUE DATE PERMIT SET PERMIT CORRECTION #1 2 PERMIT REVISION #1 A PERMIT REVISION #2

03/17/2021 09/01/2021 04/28/2022 01/12/2024

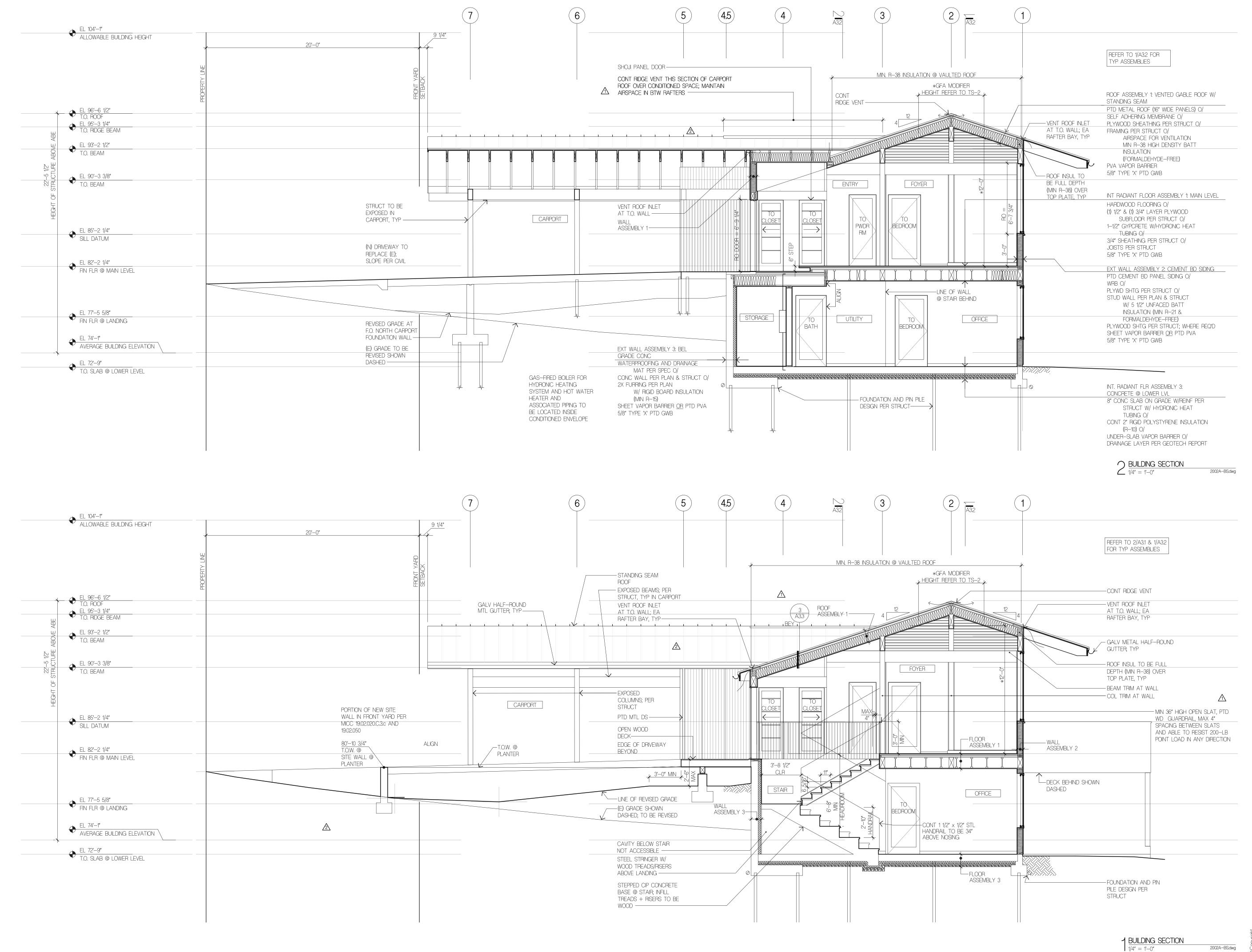
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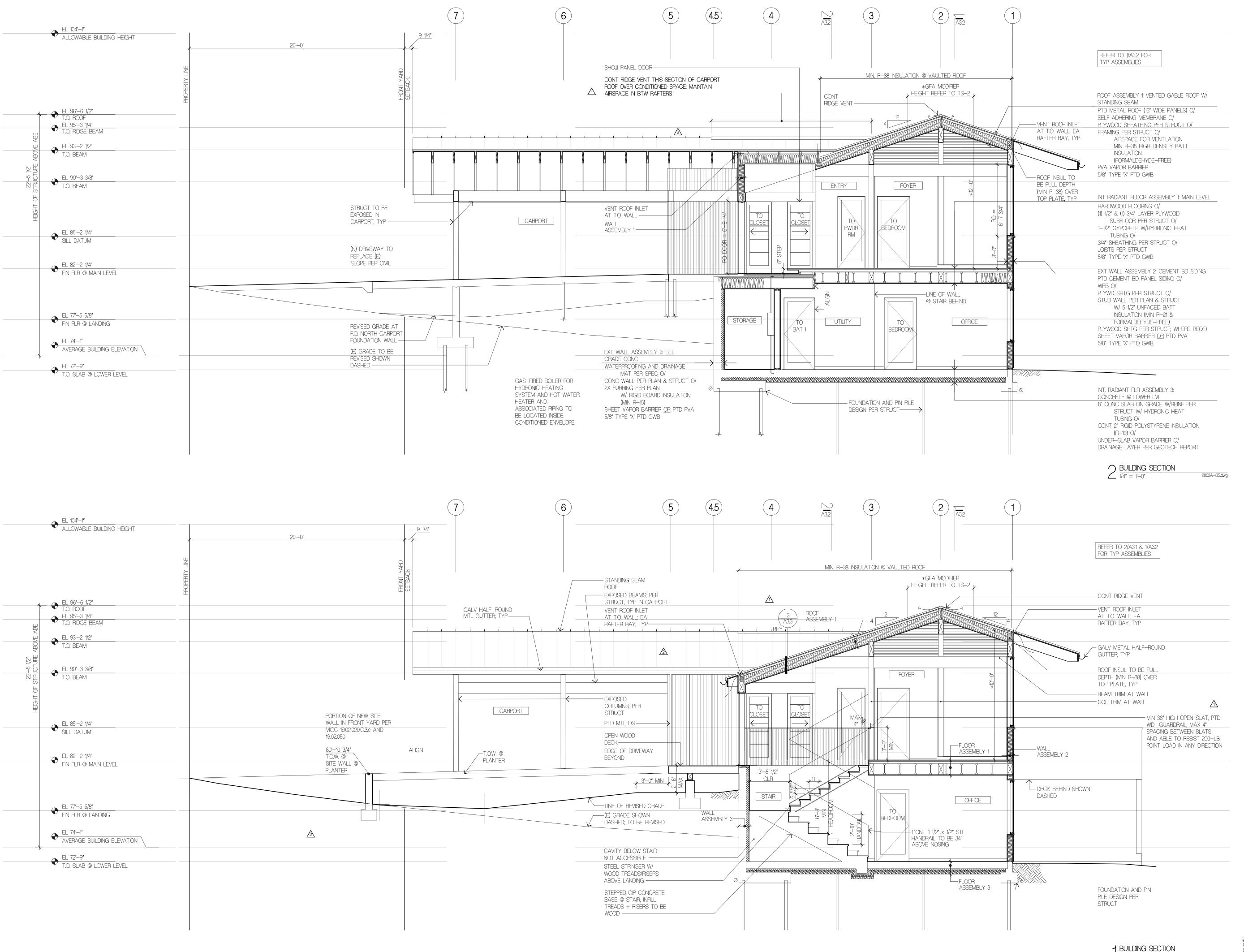
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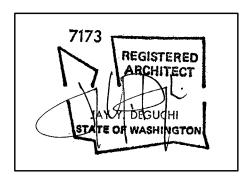
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Project Title LUMPKIN RESIDENCE 5401 W. MERCER WAY MERCER ISLAND, WA, 98040



### Drawing Title **BUILDING SECTIONS**

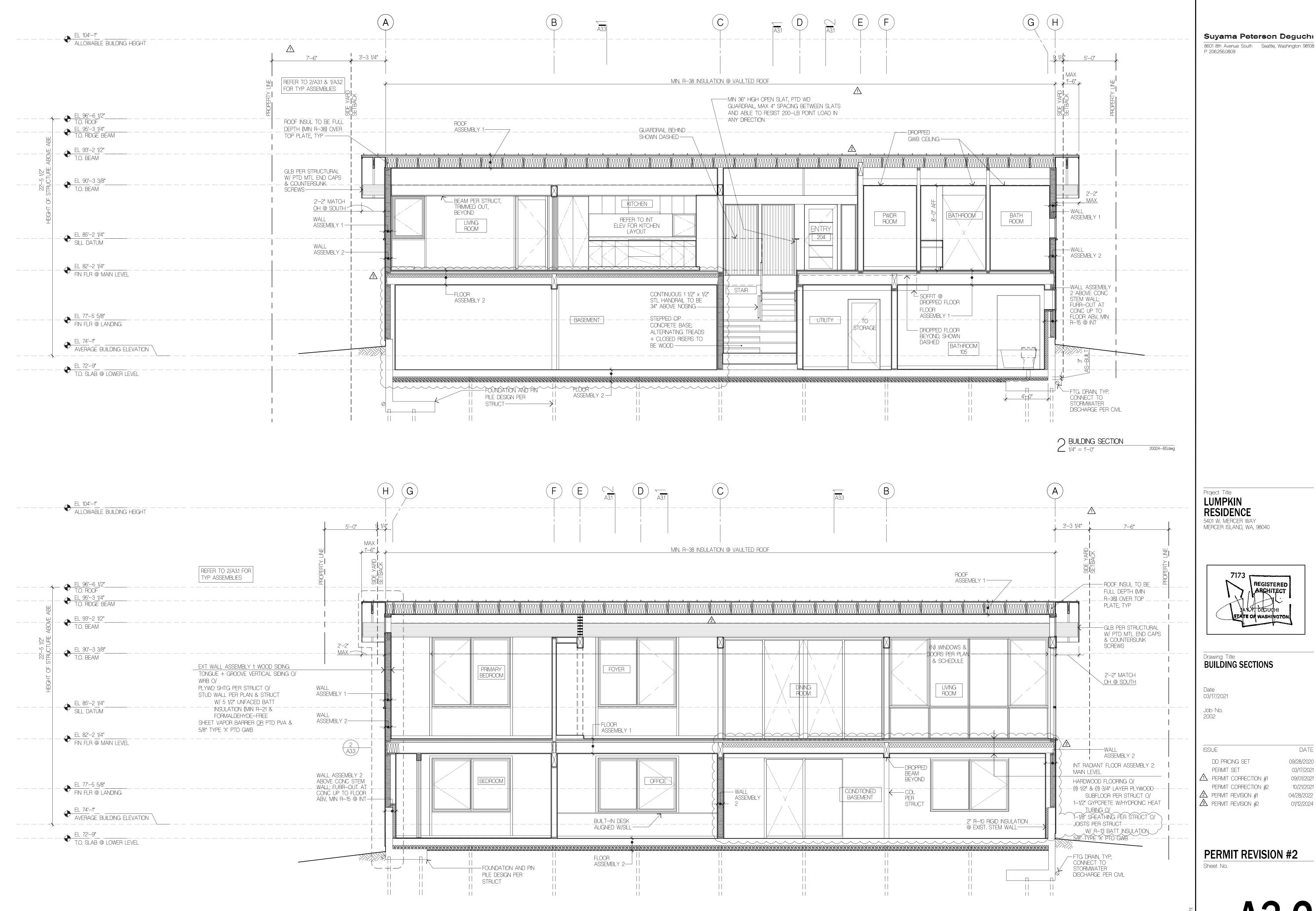
Date 03/17/2021

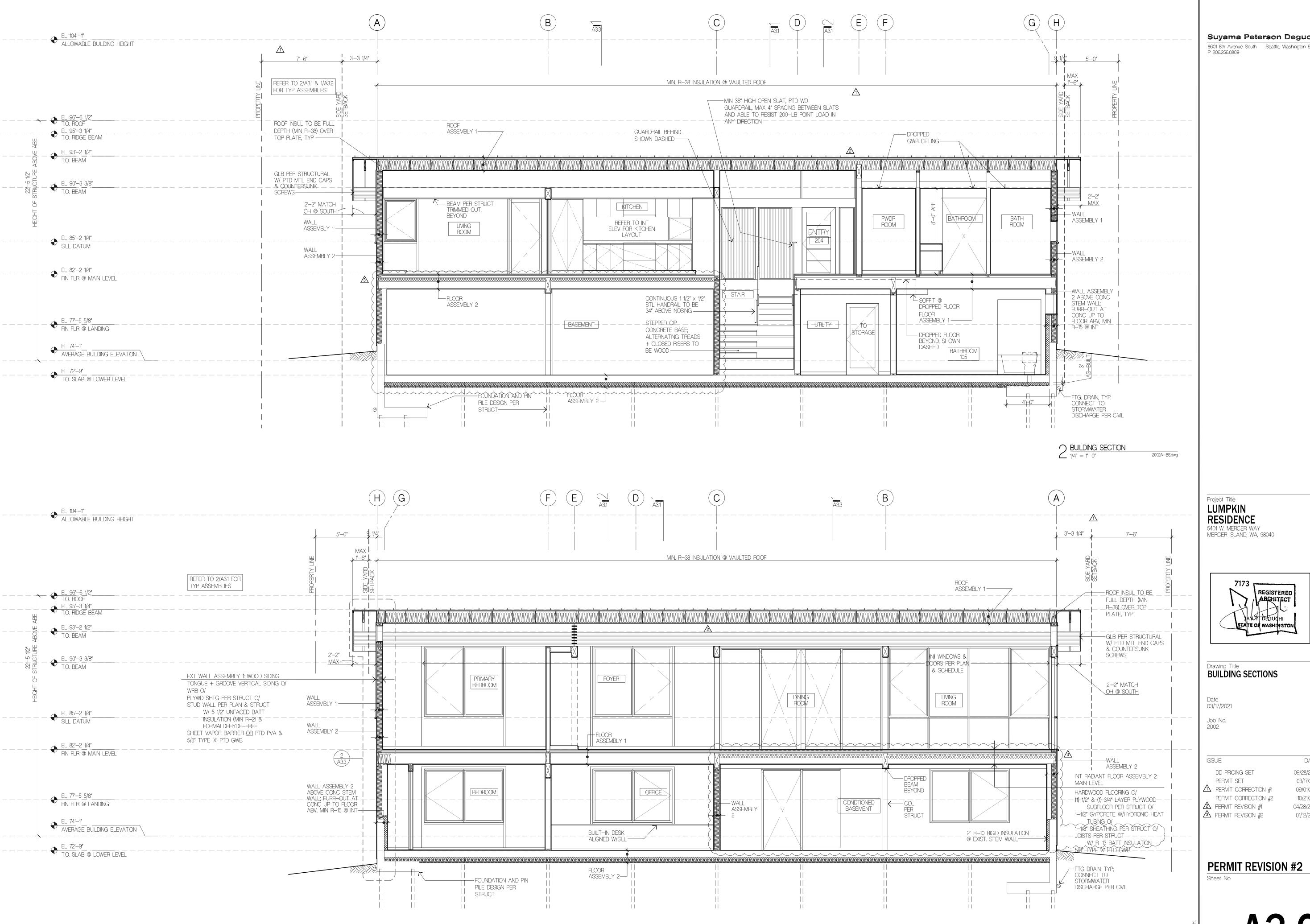
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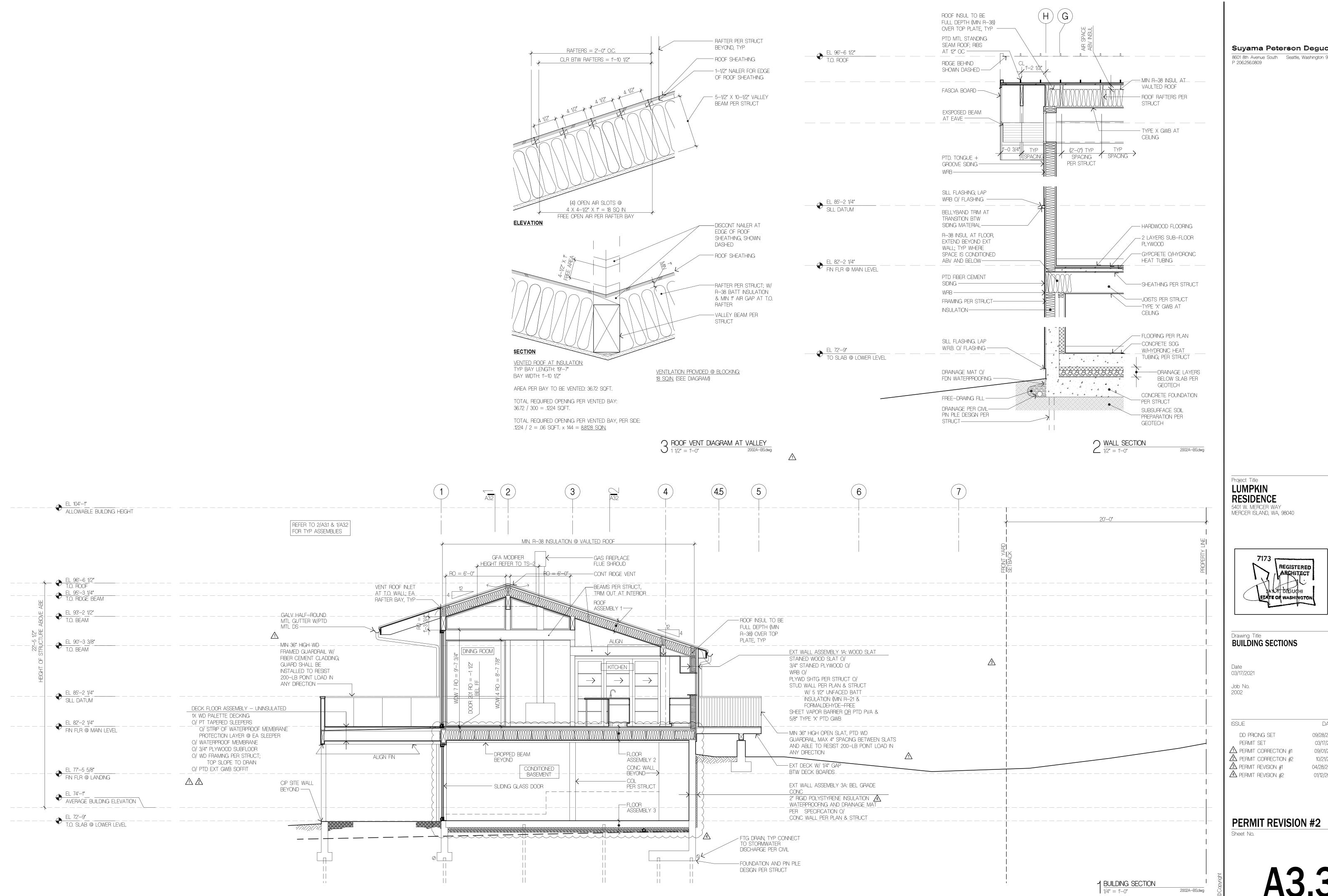


Suyama Peterson Deguchi

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	PERMIT REVISION #1	04/28/2022
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### Suyama Peterson Deguchi 8601 8th Avenue South Seattle, Washington 98108

DATE 09/28/2020 03/17/2021 09/01/2021 10/21/2021 04/28/2022 01/12/2024

### CRITERIA

- 1. ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE 12. FOUNDATION NOTES: SUBGRADE PREPARATION INCLUDING DRAINAGE, EXCAVATION, DRAWINGS. SPECIFICATIONS. AND THE INTERNATIONAL BUILDING CODE (2018) EDITION).
- 2. DESIGN LOADING CRITERIA: RESIDENTIAL - ONE AND TWO-FAMILY DWELLINGS ROOF ROOF LIVE LOAD . FNVIRONMENTAL LOADS WIND . . . . . . GCpi=0.18, 98 MPH, RISK CATEGORY II, EXPOSURE "C" EARTHQUAKE . ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE LATERAL SYSTEM: LIGHT FRAMED SHEAR WALLS SITE CLASS=D. Ss=150, Sds=1. 457, S1=0. 506, SD1=0. 573, Cs=0.154
- SDC D (DEFAULT), Ie=1.0, R=6.5 SEE PLANS FOR ADDITIONAL LOADING CRITERIA
- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS FOR BIDDING AND CONSTRUCTION. ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATION, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK.
- PRIMARY STRUCTURAL ELEMENTS NOT DIMENSIONED ON THE STRUCTURAL PLANS AND DETAILS SHALL BE LOCATED BY THE ARCHITECTURAL PLANS AND DETAILS. VERTICAL DIMENSION CONTROL IS DEFINED BY THE ARCHITECTURAL WALL SECTIONS, BUILDING SECTION, AND PLANS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN BOTH 23 PLANS FOR OTHER SIZES AND CRITERIA. ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE CONTRACTORS WORK. THE STRUCTURAL ENGINEER HAS NO OVERALL SUPERVISORY AUTHORITY OR ACTUAL AND/OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND/OR FOR ANY HAZARDS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE STRUCTURAL ENGINEER HAS NO DUTY TO INSPECT SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES TO THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE.
- 6. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS. CONFORM TO ASCE 37-14 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION".
- CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT
- 8. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER. ALL TYPICAL NOTES AND DETAILS SHOWN ON DRAWINGS SHALL APPLY. UNLESS NOTED OTHERWISE. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED ON THE PLANS BUT SHALL STILL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS. WHERE TYPICAL DETAILS ARE NOTED ON THE PLANS, THE SPECIFIED TYPICAL DETAIL SHALL BE USED. WHERE NO TYPICAL DETAIL IS NOTED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CHOOSE THE APPROPRIATE TYPICAL DETAIL FROM THOSE PROVIDED OR REQUEST ADDITIONAL INFORMATION. THE CONTRACTOR SHALL SUBMIT ALL PROPOSED ALTERNATE TYPICAL DETAILS TO THOSE PROVIDED WITH RELATED CALCULATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO SHOP DRAWING PRODUCTION AND FIELD USE.
- 9. ALL STRUCTURAL SYSTEMS, WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERECTED, SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY. HANDLING. STORAGE AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLIER.

### QUALITY ASSURANCE

10. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND SECTIONS 110 AND 1705 OF THE INTERNATIONAL BUILDING CODE 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. SPECIAL INSPECTION OF THE FOLLOWING TYPES OF CONSTRUCTION IS REQUIRED UNLESS NOTED OTHERWISE.

PER TABLE 1705.3 CONCRETE CONSTRUCTION SOIL CONDITIONS, FILL PLACEMENT, AND DENSITY PER TABLE 1705.6 DRIVEN DEEP FOUNDATION PER TABLE 1705.7 EXPANSION BOLTS AND THREADED EXPANSION INSERTS PER MANUFACTURER EPOXY GROUTED INSTALLATIONS PER MANUFACTURER

PERIODIC INSPECTION: INSPECTION SHALL BE PERFORMED AT INTERVALS NECESSARY TO CONFIRM THAT WORK REQUIRING SPECIAL INSPECTION IS IN COMPLIANCE WITH REQUIREMENTS. CONTINUOUS INSPECTION: INSPECTOR SHALL BE ONSITE AND OBSERVE THE WORK REQUIRING INSPECTION AT ALL TIMES THAT WORK IS PERFORMED.

- 11. UNLESS OTHERWISE NOTED, THE FOLLOWING ELEMENTS COMPRISE THE SEISMIC-FORCE-RESISTING SYSTEM AND ARE SUBJECT TO SPECIAL INSPECTION FOR SEISMIC RESISTANCE IN ACCORDANCE WITH SECTION 1705. 12 OF THE INTERNATIONAL BUILDING CODE.
- A. STRUCTURAL WOOD SHEAR WALL SYSTEMS REQUIRE PERIODIC INSPECTION FOR COMPONENTS WITHIN THE SEISMIC FORCE, RESISTING SYSTEM INCLUDING SHEAR WALLS, DIAPHRAGMS, DRAG STRUTS, BRACES AND HOLDOWNS.

### GEOTECHNICAL

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

SOILS REPORT REFERENCE: GEO GROUP NORTHWEST, #G-5244

- .3. PIN PILES SHOWN ON THE PLAN SHALL BE 3" DIAMETER SCHEDULE 40, GRADE A, 25. CONCRETE SCREW ANCHORS INTO CONCRETE AND CONCRETE MASONRY UNITS SHALL BE GALVANIZED, UNLESS OTHERWISE NOTED. THE MAXIMUM CAPACITY OF 3" PILES SHALL "TITEN HD" HEAVY DUTY SCREW ANCHOR AS MANUFACTURED BY THE SIMPSON BE 6 TONS. ALL PILES SHALL BE DRIVEN TO REFUSAL IN ACCORDANCE WITH THE STRONG-TIE COMPANY, INSTALLED IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. GEOTECHNICAL REPORT. AS A MINIMUM. PILE REFUSAL SHALL BE DEFINED AS 1 INCH ESR-2713 (CONCRETE), NO. ESR-1056 (CMU), INCLUDING MINIMUM EMBEDMENT OF PENETRATION IN 12 SECONDS DURING CONTINUOUS DRIVING OF A 650 LB HYDRAULIC HAMMER (TELEDYNE TB225 OR EQUIVALENT) UNDER THE FULL WEIGHT AND FULLY GROUTED CELLS. SPECIAL INSPECTION IS REQUIRED. EFFORT OF THE OPERATOR. PILES USED IN COMMON TO RESIST LATERAL EARTH PRESSURES SHALL HAVE THE ADDITIONAL REQUIREMENT OF BEING EMBEDDED A MINIMUM OF 10 FEET BELOW RETAINED GRADE. THE MAXIMUM PILE ECCENTRICITY WOOD SHALL BE 2 INCHES. GEOTECHNICAL SPECIAL INSPECTION SHALL BE SUBJECT TO THE DISCRETION OF THE GEOTECHNICAL ENGINEER AND THE BUILDING DEPARTMENT. SEE 26. FRAMING LUMBER SHALL BE S-DRY, KD, OR MC-19, AND GRADED AND MARKED IN CONFORMANCE WITH WCLIB STANDARD No. 17, GRADING RULES FOR WEST COAST LUMBER. 2018. OR WWPA STANDARD. WESTERN LUMBER GRADING RULES 2017. 14. PIN PILES SHOWN ON THE PLAN SHALL BE 2" DIAMETER SCHEDULE 80, GRADE A, FURNISH TO THE FOLLOWING MINIMUM STANDARDS:
- GALVANIZED, UNLESS OTHERWISE NOTED. THE MAXIMUM CAPACITY OF 2" PILES SHALL BE 3 TONS. ALL PILES SHALL BE DRIVEN TO REFUSAL IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. AS A MINIMUM, PILE REFUSAL SHALL BE DEFINED AS 1 INCH OF PENETRATION IN 60 SECONDS DURING CONTINUOUS DRIVING OF A 90-140 LB JACK-HAMMER UNDER THE FULL WEIGHT AND EFFORT OF THE OPERATOR. PILES USED IN COMMON TO RESIST LATERAL EARTH PRESSURES SHALL HAVE THE ADDITIONAL REQUIREMENT OF BEING EMBEDDED A MINIMUM OF 10 FEET BELOW RETAINED GRADE. THE MAXIMUM PILE ECCENTRICITY SHALL BE 2 INCHES. GEOTECHNICAL SPECIAL INSPECTION SHALL BE SUBJECT TO THE DISCRETION OF THE GEOTECHNICAL ENGINEER AND THE BUILDING DEPARTMENT. SEE PLANS FOR OTHER SIZES AND CRITERIA.

### CONCRETE

- 15. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH ACI 301. INCLUDING TESTING PROCEDURES. CONCRETE SHALL ATTAIN A 28-DAY STRENGTH OF f' c = 3,000 PSI AND MIX SHALL CONTAIN NOT LESS THAN 5-1/2 SACKS OF CEMENT PER CUBIC YARD AND SHALL BE PROPORTIONED TO PRODUCE A SLUMP OF 5" OR LESS. REQUIRED CONCRETE STRENGTH IS BASED ON THE DURABILITY REQUIREMENTS OF SECTION 1904 OF THE IBC. DESIGN STRENGTH IS f'c = 2,500
- 27. GLUED LAMINATED MEMBERS SHALL BE FABRICATED IN CONFORMANCE WITH ASTM AND ANSI/AITC STANDARDS. EACH MEMBER SHALL BEAR AN AITC OR APA IDENTIFICATION PSI. MARK AND SHALL BE ACCOMPANIED BY AN AITC OR APA CERTIFICATE OF CONFORMANCE. ALL SIMPLE SPAN BEAMS SHALL BE DOUGLAS FIR COMBINATION 16. ALL CONCRETE WITH SURFACES EXPOSED TO WEATHER OR STANDING WATER SHALL BE 24F-V4, Fb = 2,400 PSI, Fv =265 PSI. ALL CANTILEVERED BEAMS SHALL BE AIR-ENTRAINED WITH AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260, C494, DOUGLAS FIR COMBINATION 24F-V8, Fb = 2400 PSI, Fv = 265 PSI. CAMBER ALL AND C618. TOTAL AIR CONTENT FOR FROST-RESISTANT CONCRETE SHALL BE IN SIMPLE SPAN GLULAM BEAMS. WITH SPANS OVER 30'. TO 3.500' RADIUS. UNLESS ACCORDANCE WITH ACI 318-14, TABLE 19.3.2.1 MODERATE EXPOSURE, F1. SHOWN OTHERWISE ON THE PLANS.
- 17. REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT S1), 28. MANUFACTURED LUMBER, PSL, LVL, AND LSL SHOWN ON PLAN ARE BASED PRODUCTS GRADE 60, FY = 60,000 PSI. EXCEPTIONS: ANY BARS SPECIFICALLY SO NOTED ON MANUFACTURED BY THE WEYERHAEUSER CORPORATION IN ACCORDANCE WITH ICC-ES THE DRAWINGS SHALL BE GRADE 40, FY = 40,000 PSI. WELDED WIRE FABRIC SHALL REPORT ESR-1387. MEMBERS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: CONFORM TO ASTM A-185. SPIRAL REINFORCEMENT SHALL BE DEFORMED WIRE CONFORMING TO ASTM A615, GRADE 60, FY = 60,000 PSI.
- 18. DETAILING OF REINFORCING STEEL (INCLUDING HOOKS AND BENDS) SHALL BE IN ACCORDANCE WITH ACI 315R-18 AND 318-14. LAP ALL CONTINUOUS REINFORCEMENT #5 AND SMALLER 40 BAR DIAMETERS OR 2'-0" MINIMUM. PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP CORNER BARS #5 AND SMALLER 40 BAR DIAMETERS OR 2'-O" MINIMUM. LAPS OF LARGER BARS SHALL BE MADE IN ACCORDANCE WITH ACI 318-14, CLASS B. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS.

NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER.

19. CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

FOOTINGS AND OTHER UNFORMED SURFACES CAST AGAINST AND PERMANENTLY EXPOSED 

FORMED SURFACES EXPOSED TO EARTH OR WEATHER (#6 BARS OR LARGER) . . . 2" FORMED SURFACES EXPOSED TO EARTH OR WEATHER (#5 BARS OR SMALLER). 1-1/2" SLABS AND WALLS (INT. FACE). . . GREATER OF BAR DIAMETER PLUS 1/8" OR 3/4"

20. CONCRETE WALL REINFORCING--PROVIDE THE FOLLOWING UNLESS DETAILED OTHERWISE:

8" WALLS	#4 @ 12 HORIZ.	#4 @ 18 VERTICAL	1 CUR
10" WALLS	#4 @ 18 HORIZ.	#4 @ 18 VERTICAL	2 CUR

- 21. CAST-IN-PLACE CONCRETE: SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND ROOF SHEATHING SHALL BE 1/2" (NOMINAL) WITH SPAN RATING 32/16. DIMENSIONS OF DOOR AND WINDOW OPENINGS IN ALL CONCRETE WALLS. SEE MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF MISCELLANEOUS MECHANICAL FLOOR SHEATHING SHALL BE 3/4" (NOMINAL) WITH SPAN RATING 48/24. OPENINGS THROUGH CONCRETE WALLS. SEE ARCHITECTURAL DRAWINGS FOR ALL GROOVES, NOTCHES, CHAMFERS, FEATURE STRIPS, COLOR, TEXTURE, AND OTHER WALL SHEATHING SHALL BE 1/2" (NOMINAL) WITH SPAN RATING 24/0. FINISH DETAILS AT ALL EXPOSED CONCRETE SURFACES. BOTH CAST-IN-PLACE AND PRECAST.
- FIELD GLUEING, NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF 22. NON-SHRINK GROUT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE MIXED AND PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (3000 PSI MINIMUM).

### General Structural Notes THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS ANCHORAGE

- JRTAIN RTAINS

- MANUFACTURED BY THE SIMPSON STRONG TIE COMPANY AND INSTALLED IN STRIC CONFORMANCE TO ICC-ES REPORT NUMBER ESR-3037, INCLUDING MINIMUM EMBEDMENT REQUIREMENTS. BOLTS INTO CONCRETE MASONRY OR BRICK MASONRY UNITS SHALL BE INTO FULLY GROUTED CELLS. PERIODIC SPECIAL INSPECTION IS REQUIRED TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, ANCHOR LOCATION, TIGHTENING TORQUE INSTRUCTIONS.
- 24. EPOXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BAR) SPECIFIED ON THE DRAWINGS SHALL BE INSTALLED USING "SET-XP" HIGH STRENGTH EPOXY AS MANUFACTURED BY THE SIMPSON STRONG, TIE COMPANY. INSTALL IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. ESR-2508. MINIMUM BASE MATERIAL TEMPERATURE IS 50 DEGREES, F. RODS SHALL BE ASTM A-36 UNLESS OTHERWISE NOTED. PERIODIC SPECIAL INSPECTION OF INSTALLATION IS REQUIRED TO VERIFY ANCHOR OR EMBEDED BAR TYPE AND DIMENSIONS, LOCATION, ADHESIVE IDENTIFICATION AND EXPIRATION. HOLE DIMENSIONS. HOLE CLEANING PROCEDURE. ANCHOR EMBEDMENT, AND ADHERENCE TO THE INSTALLATION INSTRUCTIONS. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR HORIZONTAL AND OVERHEAD INSTALLATIONS.

JOISTS AND BEAMS	(2X & 3X MEMBERS)	DOUGLAS FIR-LARCH NO. 1 MINIMUM BASE VALUE, Fb = 900 PSI
	(4X MEMBERS)	DOUGLAS FIR-LARCH NO. 1 MINIMUM BASE VALUE, Fb = 1000 PSI
BEAMS	(INCL. 6X AND LARGER)	DOUGLAS FIR-LARCH NO. 1 MINIMUM BASE VALUE, Fb = 1350 PSI
POSTS	(4X MEMBERS)	DOUGLAS FIR-LARCH NO. 2 MINIMUM BASE VALUE, Fc = 1350 PSI
	(6X AND LARGER)	DOUGLAS FIR-LARCH NO. 1 MINIMUM BASE VALUE, Fc = 1000 PSI

STUDS, PLATES & MISC. FRAMING: DOUGLAS FIR-LARCH NO. 2

PSL (2.0E WS)	Fb = 2900 PSI,	E = 2000 KSI,	Fv = 290 PSI
LSL (1.55E)	Fb = 2325 PSI,	E = 1550 KSI,	Fv = 310 PSI

ALTERNATE MANUFACTURED LUMBER MANUFACTURERS MAY BE USED SUBJECT TO REVIEW 35. NOTCHES AND HOLES IN WOOD FRAMING: AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER. ALTERNATE MANUFACTURER'S PRODUCTS SHALL BE COMPATIBLE WITH THE JOIST HANGERS AND OTHER HARDWARE SPECIFIED ON PLANS. OR ALTERNATE HANGERS AND HARDWARE SHALL SUBMITTED FOR REVIEW AND APPROVAL. SUBSTITUTED ITEMS SHALL HAVE ICC-ES REPORT APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES.

- MANUFACTURED LUMBER PRODUCTS SHALL BE INSTALLED WITH A MOISTURE CONTENT OF 12% OR LESS. THE CONTRACTOR SHALL MAKE PROVISIONS DURING CONSTRUCTION TO PREVENT THE MOISTURE CONTENT OF INSTALLED BEAMS FROM EXCEEDING 12%. EXCESSIVE DEFLECTIONS MAY OCCUR IF MOISTURE CONTENT EXCEEDS THIS VALUE.
- 29. PREFABRICATED PLYWOOD WEB JOIST DESIGN SHOWN ON PLANS IS BASED ON JOISTS MANUFACTURED BY THE WEYERHAEUSER CORPORATION. IN ACCORDANCE WITH ICC-ES REPORT ESR-1157. ALTERNATE PLYWOOD WEB JOIST MANUFACTURERS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER. ALTERNATE MANUFACTURER'S PRODUCTS SHALL BE COMPATIBLE WITH THE JOIST HANGERS AND OTHER HARDWARE SPECIFIED ON PLANS, OR ALTERNATE HANGERS AND HARDWARE SHALL SUBMITTED FOR REVIEW AND APPROVAL. SUBSTITUTED ITEMS SHALL HAVE ICC-ES REPORT APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES.
- 30. PLYWOOD SHEATHING SHALL BE GRADE C-D. EXTERIOR GLUE OR STRUCTURAL II. EXTERIOR GLUE IN CONFORMANCE WITH DOC PS 1 OR PS 2. ORIENTED STRAND BOARD OF EQUIVALENT THICKNESS, EXPOSURE RATING AND PANEL INDEX MAY BE USED IN LIEU OF PLYWOOD.

PROVIDE APPROVED PLYWOOD EDGE CLIPS CENTERED BETWEEN JOISTS/TRUSSES AT UNBLOCKED ROOF SHEATHING EDGES. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED T&G JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF FLOOR AND ROOF SHEATHING.

- REFER TO WOOD FRAMING NOTES BELOW FOR TYPICAL NAILING REQUIREMENTS.
- 31. ALL WOOD IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE-TREATED WITH AN APPROVED PRESERVATIVE OR (2) LAYERS OF ASPHALT IMPREGNATED BUILDING PAPER SHALL BE PROVIDED BETWEEN UNTREATED WOOD AND CONCRETE OR MASONRY.

- 23. EXPANSION BOLTS INTO CONCRETE SHALL BE "STRONG-BOLT 2" WEDGE ANCHORS AS 32. PRESERVATIVE TREATED WOOD SHALL BE TREATED PER AWPA STANDARD U1 TO THE USE 36. WOOD FRAMING NOTES--THE FOLLOWING APPLY UNLESS OTHERWISE SHOWN ON THE CATEGORY EQUAL TO OR HIGHER THAN THE INTENDED APPLICATION. TREATED WOOD PLANS: FOR ABOVE GROUND USE SHALL BE TREATED TO AWPA UC3B. WOOD IN CONTINUOUS CONTACT WITH FRESH WATER OR SOIL SHALL BE TREATED TO AWPA UC4A. WOOD FOR A. ALL WOOD FRAMING DETAILS NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO USE IN PERMANENT FOUNDATIONS SHALL BE TREATED TO AWPA UC4B. THE MINIMUM STANDARDS OF THE INTERNATIONAL BUILDING CODE, THE AITC
- HOLE DIMENSIONS, ANCHOR EMBEDMENT, AND ADHERENCE TO THE INSTALLATION 33. FASTENERS AND TIMBER CONNECTORS USED WITH TREATED WOOD SHALL HAVE CORROSION RESISTANCE AS INDICATED IN THE FOLLOWING TABLE, UNLESS OTHERWISE NOTED.

WOOD TREATMENT	CONDITION	PROTECTION
HAS NO AMMONIA CARRIER	INTERIOR DRY	G90 GALVANIZ
CONTAINS AMMONIA CARRIER	INTERIOR DRY	G185 OR A185
		CONTINUOUS H
		PER ASTM A65
CONTAINS AMMONIA CARRIER	INTERIOR WET	TYPE 304 OR
CONTAINS AMMONIA CARRIER	EXTERIOR	TYPE 304 OR
A7CA	ANY	TYPE 304 OR

INTERIOR DRY CONDITIONS SHALL HAVE WOOD MOISTURE CONTENT LESS THAN 19%. WOOD MOISTURE CONTENT IN OTHER CONDITIONS (INTERIOR WET, EXTERIOR WET, AND EXTERIOR DRY) IS EXPECTED TO EXCEED 19%. CONNECTORS AND THEIR FASTENERS SHALL BE THE SAME MATERIAL. COMPLY WITH THE TREATMENT MANUFACTURERS RECOMMENDATIONS FOR PROTECTION OF METAL.

REQUIREMENTS. SCREW ANCHORS INTO CONCRETE MASONRY UNITS SHALL BE INTO 34. TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED IN THEIR CATALOG NUMBER C-C-2019. EQUIVALENT DEVICES BY OTHER MANUFACTURERS MAY BE SUBSTITUTED. PROVIDED THEY HAVE ICC-ES APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. PROVIDE NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER FOR MAXIMUM LOAD CARRYING CAPACITY. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

> ALL 2X JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH "LUS" SERIES JOIST HANGERS. ALL TJI JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH "ITS" SERIES JOIST HANGERS. ALL DOUBLE-JOIST BEAMS SHALL BE CONNECTED TO FLUSH BEAMS WITH "MIT" SERIES JOIST HANGERS.

> WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, PLACE ONE-HALF OF THE NAILS OR BOLTS IN EACH MEMBER.

> ALL SHIMS SHALL BE SEASONED AND DRIED AND THE SAME GRADE (MINIMUM)AS MEMBERS CONNECTED.

- 35. WOOD FASTENERS
- A. NAIL SIZES SPECIFIED ON DRAWINGS ARE BASED ON THE FOLLOWING SPECIFICATIONS:

SIZE	LENGTH	DIAMETER
8d	2-1/2"	0. 131"
16d BOX	3-1/2"	0. 135"

IF CONTRACTOR PROPOSES THE USE OF ALTERNATE NAILS, THEY SHALL SUBMIT NAIL SPECIFICATIONS TO THE STRUCTURAL ENGINEER (PRIOR TO CONSTRUCTION) FOR REVIEW AND APPROVAL.

NAILS – PLYWOOD (APA RATED SHEATHING) FASTENERS TO FRAMING SHALL BE DRIVEN FLUSH TO FACE OF SHEATHING WITH NO COUNTERSINKING PERMITTED. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 30 DEGREES WITH THE MEMBER AND STARTED 1/3 THE LENGTH OF THE NAIL FROM THE MEMBER END.

- B. ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG BOLTS BEARING ON WOOD. INSTALLATION OF LAG BOLTS SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION WITH A LEAD BORE HOLE OF 60 TO 70 PERCENT OF THE SHANK DIAMETER. LEAD HOLES ARE NOT REQUIRED FOR 3/8" AND SMALLER LAG SCREWS.
- A. NOTCHES ON THE ENDS OF SOLID SAWN JOISTS AND RAFTERS SHALL NOT EXCEED ONE-FOURTH THE JOIST DEPTH. NOTCHES IN THE TOP OR BOTTOM OF SOLID SAWN JOISTS SHALL NOT EXCEED ONE-SIXTH THE DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE THIRD OF THE SPAN. HOLES BORED IN SOLID SAWN JOISTS AND RAFTERS SHALL NOT BE WITHIN 2 INCHES OF THE TOP OR BOTTOM OF THE JOIST. AND THE DIAMETER OF ANY SUCH HOLE SHALL NOT EXCEED ONE-THIRD THE DEPTH OF THE JOIST.
- B. IN EXTERIOR WALLS AND BEARING PARTITIONS, ANY WOOD STUD IS PERMITTED TO BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25 PERCENT OF ITS WIDTH. A HOLE NOT GREATER IN DIAMETER THAN 40 PERCENT OF THE STUD WIDTH IS PERMITTED TO BE BORED IN ANY WOOD STUD. IN NO CASE SHALL THE EDGE OF THE BORED HOLE BE NEARER THAN 5/8 INCH TO THE EDGE OF THE STUD. BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION OF STUD AS A CUT OR NOTCH.
- C. NOTCHES AND HOLES IN MANUFACTURED LUMBER AND PREFABRICATED PLYWOOD WEB JOISTS SHALL BE PER THE MANUFACTURERS RECOMMENDATIONS UNLESS OTHERWISE NOTED.

- ZED 35 HOT DIPPED OR HOT-GALVANIZED 316 STAINLESS
- 316 STAINLESS TYPE 304 OR 316 STAINLESS

- "TIMBER CONSTRUCTION MANUAL" AND THE AWC "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION". MINIMUM NAILING, UNLESS OTHERWISE NOTED, SHALL CONFORM TO IBC TABLE 2304. 10. 1. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS.
- B. WALL FRAMING: REFER ARCHITECTURAL DRAWINGS FOR THE SIZE OF ALL WALLS. ALL STUDS SHALL BE SPACED AT 16" O.C. UNO. TWO STUDS MINIMUM SHALL BE PROVIDED AT THE END OF ALL WALLS AND AT EACH SIDE OF ALL OPENINGS. AND AT BEAM OR HEADER BEARING LOCATIONS. TWO 2x8 HEADERS SHALL BE PROVIDED OVER ALL OPENINGS NOT OTHERWISE NOTED. SOLID BLOCKING FOR WOOD COLUMNS SHALL BE PROVIDED THROUGH FLOORS TO SUPPORTS BELOW. PROVIDE CONTINUOUS SOLID BLOCKING AT MID-HEIGHT OF ALL STUD WALLS OVER 10'-0" IN HEIGHT.

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

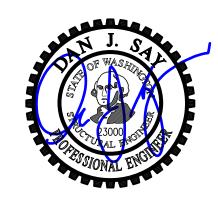
ALL STUD WALLS SHALL HAVE THEIR LOWER WOOD PLATES ATTACHED TO WOOD FRAMING BELOW WITH TWO ROWS OF 16d NAILS @ 12" ON-CENTER, OR ATTACHED TO CONCRETE BELOW WITH 5/8" DIAMETER ANCHOR BOLTS @ 4'-0" ON-CENTER EMBEDDED 7" MINIMUM, UNLESS INDICATED OTHERWISE. INDIVIDUAL MEMBERS OF BUILT-UP POSTS SHALL BE NAILED TO EACH OTHER WITH TWO ROWS OF 16d @12" ON-CENTER. UNLESS OTHERWISE NOTED, GYPSUM WALLBOARD SHALL BE FASTENED TO THE INTERIOR SURFACE OF ALL STUDS AND PLATES WITH NO. 6 X 1-1/4' TYPE S OR W SCREWS @ 8" ON-CENTER. UNLESS INDICATED OTHERWISE, 1/2 (NOMINAL)APA RATED SHEATHING (SPAN RATING 24/0) SHALL BE NAILED TO ALL EXTERIOR SURFACES WITH 8d NAILS @ 6" ON-CENTER AT PANEL EDGES AND TOP AND BOTTOM PLATES (BLOCK UN-SUPPORTED EDGES) AND TO ALL INTERMEDIATE STUDS AND BLOCKING WITH 8d NAILS @ 12" ON-CENTER ALLOW 1/8" SPACING AT ALL PANEL EDGES AND PANEL ENDS.

- C. FLOOR AND ROOF FRAMING: PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS THAT EXTEND OVER MORE THAN HALF THE JOIST LENGTH AND AROUND ALL OPENINGS IN FLOORS OR ROOFS UNLESS OTHERWISE NOTED. PROVIDE SOLID BLOCKING AT ALL BEARING POINTS. TOE-NAIL JOISTS TO SUPPORTS WITH TWO 16d NAILS. ATTACH TIMBER JOISTS TO FLUSH HEADERS OR BEAMS WITH SIMPSON METAL JOIST HANGERS IN ACCORDANCE WITH NOTES ABOVE. NAIL ALL MULTI JOIST BEAMS TOGETHER WITH TWO ROWS 16d @ 12" ON-CENTER.
- UNLESS OTHERWISE NOTED ON THE PLANS, PLYWOOD ROOF AND FLOOR SHEATHING SHALL BE LAID UP WITH GRAIN PERPENDICULAR TO SUPPORTS AND NAILED AT 6' ON-CENTER WITH 8d NAILS TO FRAMED PANEL EDGES, STRUTS AND OVER STUD WALLS AS SHOWN ON PLANS AND @ 12" ON-CENTER TO INTERMEDIATE SUPPORTS PROVIDE APPROVED PLYWOOD EDGE CLIPS CENTERED BETWEEN JOISTS/TRUSSES AT UNBLOCKED ROOF SHEATHING EDGES. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED T&G JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF FLOOR AND ROOF SHEATHING. TOENAIL BLOCKING TO SUPPORTS WITH 16d @ 12" ON-CENTER UNLESS OTHERWISE NOTED.



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DRAWN:	SJB	
DESIGN:	VMB	
CHECKED:	RJA	
APPROVED:	DJS	

REVISIO	DNS:	
$\mathbf{\Lambda}$	Permit	
	Corrections #1	Sep. 1, 2021
	Pin Pile	
2	Layout Revision	Jan. 21, 2022
$\overline{\Lambda}$		
<u></u>	Permit Revision #1	Apr. 28, 2022

JURISDICTIONAL APPROVAL STAMP

PROJECT TITLE:

Lumpkin Residence 5401 West Mercer Way Mercer Island, WA 98040

ARCHITECT:

Suyama Peterson Deguchi 2324 2nd Ave. Seattle, WA 98121 PH 206.256.0809 FX 206.256.0810

SCALE:

## Permit

# SHEET TITLE: General Structural Notes

DATE: March 17, 2021 PROJECT NO: 00043-2020-04 SHEET NO:

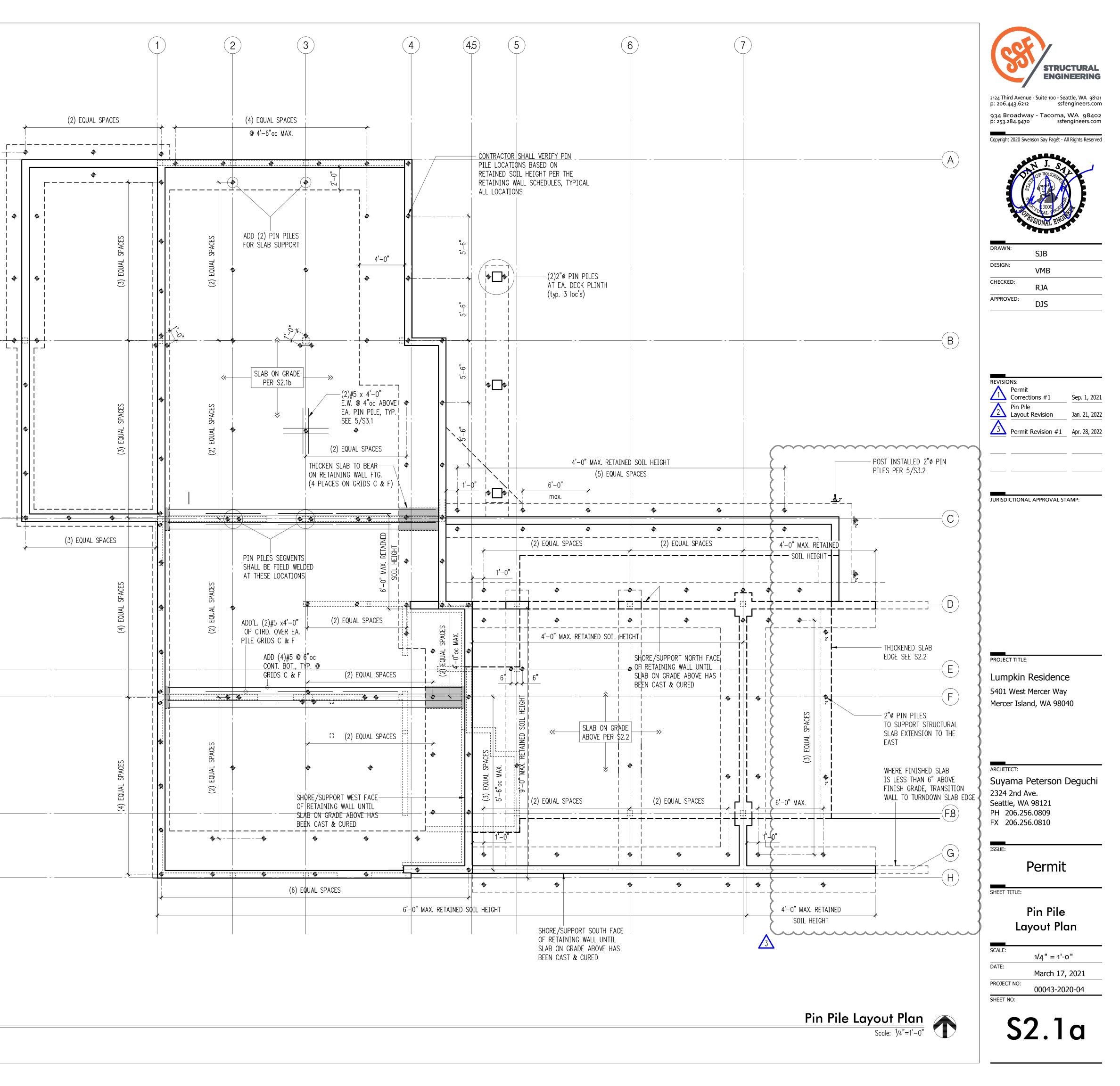
1.	DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
2.	PIPE PILES SHALL BE A COMBINATION OF 2" EXTRA-STRONG SCHEDULE 80 GALVANIZED PIPE, AND 3" DIAMETER SCHEDULE 40 GALVANIZED PIPE.
3.	2" PIN PILES SHALL BE DRIVEN TO REFUSAL. REFUSAL FOR 2" PILES IS DEFINED AS LESS THAN 1" OF PILE PENETRATION DURING 1 MINUTE OF CONTINUOUS DRIVING WITH A 90-POUND (MIN.) JACKHAMMER.
4.	2" PIN PILES HAVE BEEN DESIGNED WITH AN ALLOWABLE AXIAL COMPRESSIVE CAPACITY OF 6,000-POUNDS AS PER THE GEOTECHNICAL REPORT.
5.	3" PIN PILES SHALL BE DRIVEN TO REFUSAL. REFUSAL FOR 3" PILES IS DEFINED AS LESS THAN 1" OF PILE PENETRATION DURING 12 SECONDS OF CONTINUOUS DRIVING WITH A 650-POUND (MIN.) HYDRAULIC HAMMER. MAXIMUM PENETRATION RATE FOR 3" PIN PILES SHALL BE SUSTAINED THROUGH AT LEAST (3) TIME CYCLES OF CONTINUOUS DRIVING.
6.	3" PIN PILES HAVE BEEN DESIGNED WITH AN ALLOWABLE AXIAL COMPRESSIVE CAPACITY OF 12,000-POUNDS AS PER THE GEOTECHNICAL REPORT.
7.	MINIMUM EMBEDMENT: ALL PILES SHALL BE DRIVEN COMPLETELY THROUGH LOOSE FILL MATERIAL INTO THE UNDERLYING COMPETENT NATURAL SEDIMENTS AS DETERMINED IN THE FIELD. SEE THE GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS.
8.	MONITORING: CONTINUOUS INSPECTION SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEER.

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- 9. LOAD TESTING: PIN PILES SHALL BE LOAD TESTED AS DETERMINED BY THE GEOTECHNICAL ENGINEER. SEE THE GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS.
- 10. REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

### Legend

	STEM WALL & FOOTING SEE S2.1b
[][]	STRUCTURAL WALL OR POST ABOVE
<del>\$</del>	GALVANIZED PIN PILE, 3"Ø SCHEDULE 40 U.N.O.
÷	GALVANIZED PIN PILE, 2"Ø SCHEDULE 80 U.N.O.
h	



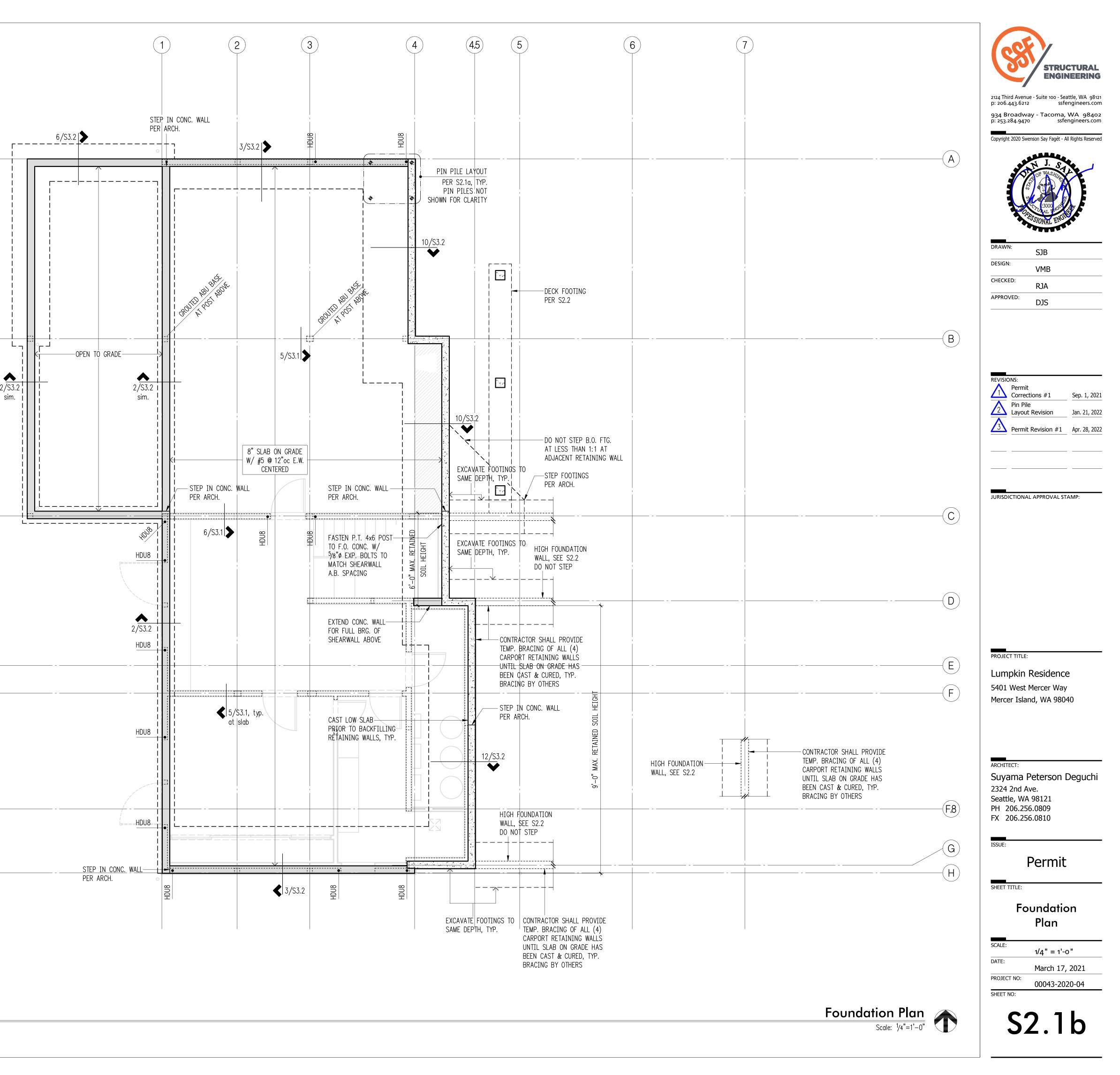
### Plan Notes

1. DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.

- 2. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 18" MINIMUM BELOW GRADE.
- 3. 8" CONCRETE SLAB OVER 6 MIL VAPOR BARRIER ON 4" OF GRAVEL OR CRUSHED ROCK OVER FIRM UNDISTURBED SOIL OR ENGINEERED COMPACTED BACK-FILL. REINFORCE WITH #5 REBAR @ 12"oc MID-DEPTH.
- 4. PROVIDE EPOXY GROUTED #4 x 2'-6" DOWELS EMBEDDED A MINIMUM OF 6" IN TO EXISTING CONCRETE TO MATCH NEW HORIZONTAL REINFORCING. TYPICAL WHERE NEW CONCRETE WALL OR FOOTING TERMINATES AT EXISTING CONCRETE. EPOXY GROUT PER GENERAL STRUCTURAL NOTES.
- 5. ALL POSTS ABOVE SHALL BEAR FULLY ON BEAMS OR POSTS BELOW AND SHALL HAVE CONTINUOUS FULL BEARING THROUGH FLOORS TO THE FOUNDATION.
- 6. REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

### Legend

	STRUCTURAL WALL OR POST BELOW
	STEM WALL & FOOTING
	FULL HEIGHT CONCTETE WALL & FOOTING
[][]]	STRUCTURAL WALL OR POST ABOVE
	NON-STRUCTURAL WALL BELOW
Wx	SHEARWALL PER 12/S4.1
•XX	HOLDOWN PER 4 & 12/S3.1



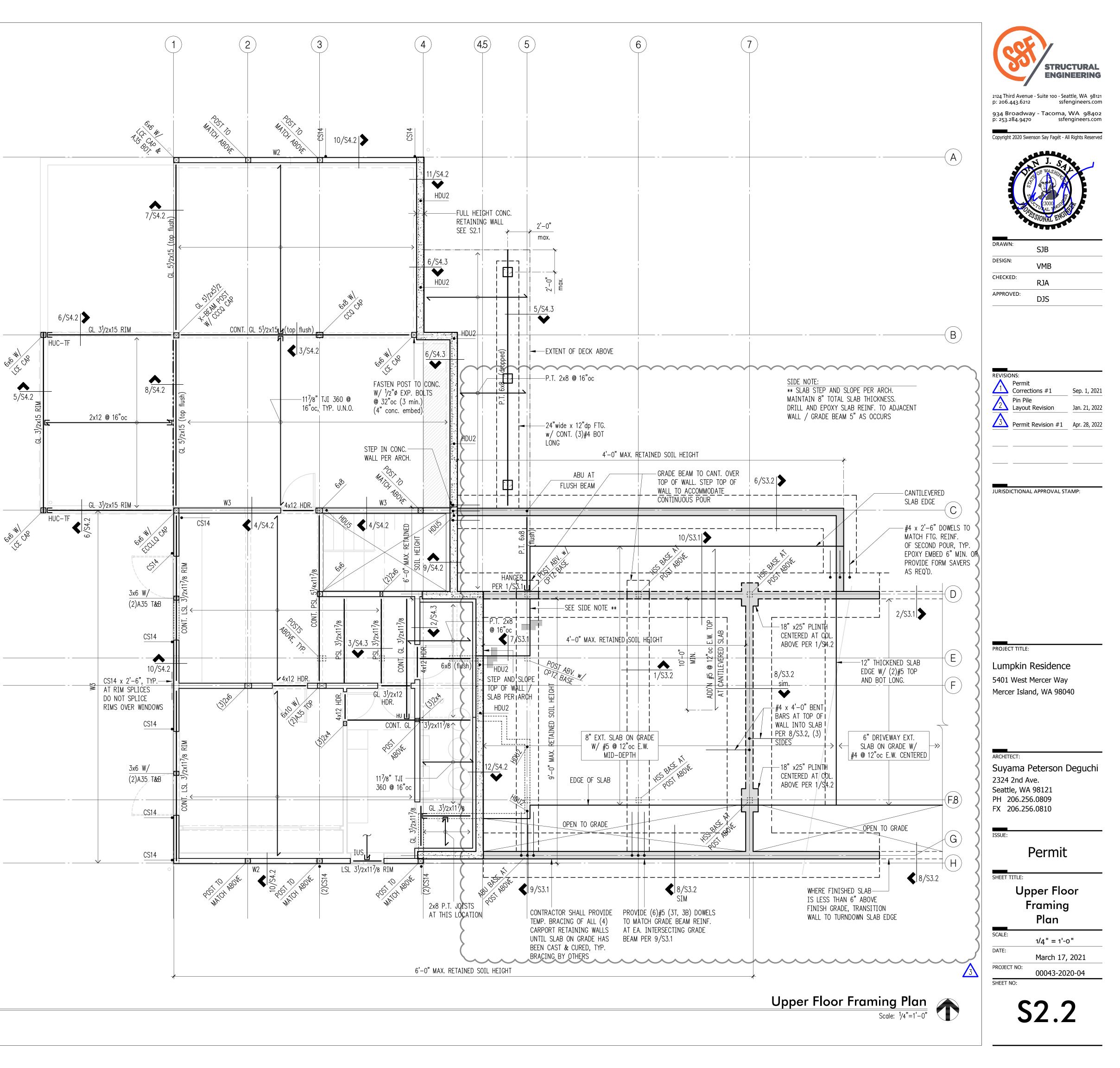
### Plan Notes

1. DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.

- FLOOR SHEATHING SHALL BE 3/4" A.P.A. RATED PANELS (EXPOSURE 1, SPAN RATING 48/24), FACE GRAIN PERPENDICULAR TO FLOOR FRAMING PER PLAN. NAIL AT ALL FRAMED PANEL EDGES WITH 8d AT 6"oc AND TO ALL INTERMEDIATE FRAMING AT 12"oc.
- 3. MAIN FLOOR JOISTS SHALL BE  $11\frac{1}{8}$ " TJI 360 SPACED PER PLAN.
- 4. DECK FLOOR JOISTS SHALL BE 2x12 SPACED PER PLAN.
- 5. HEADERS OVER DOOR AND WINDOW OPENINGS SHALL BE (2)2x8/4x8 MINIMUM. PROVIDE (2) JACK STUDS AND (1) KING STUD (MINIMUM) AT EACH END OF ALL HEADERS UNLESS NOTED OTHERWISE ON PLANS.
- 6. W# INDICATES SHEARWALL. SEE SHEARWALL SCHEDULE FOR CONSTRUCTION REQUIREMENTS.
- 7. (X)CS16 INDICATES VERTICAL HOLDOWN STRAP AT END OF SHEAR WALL ABOVE. (X) INDICATES STRAP QUANTITY.
- 8. MANUFACTURED LUMBER PRODUCTS (LSL, LVL, PSL, GL) SHALL BE INSTALLED WITH A MOISTURE CONTENT OF 12% OR LESS. THE CONTRACTOR SHALL MAKE PROVISIONS DURING CONSTRUCTION TO PREVENT THE MOISTURE CONTENT OF INSTALLED BEAMS FROM EXCEEDING 12%.
- 9. ALL POSTS ABOVE SHALL BEAR FULLY ON BEAMS OR POSTS BELOW AND SHALL HAVE CONTINUOUS FULL BEARING THROUGH FLOORS TO THE FOUNDATION.
- 10. REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

### Legend

	STRUCTURAL WALL OR POST BELOW
	CONCRETE WALL BELOW
[][]	STRUCTURAL WALL OR POST ABOVE
	NON-STRUCTURAL WALL BELOW
Wx	SHEARWALL PER 12/S4.1
<u>````</u>	SPAN DIRECTION
$\longleftrightarrow$	EXTENT OF JOISTS
	HEADER/BEAM PER PLAN
	HANGER
•XX	HOLDOWN PER 12/S3.1 STRAP PER 10/S4.1



### Plan Notes

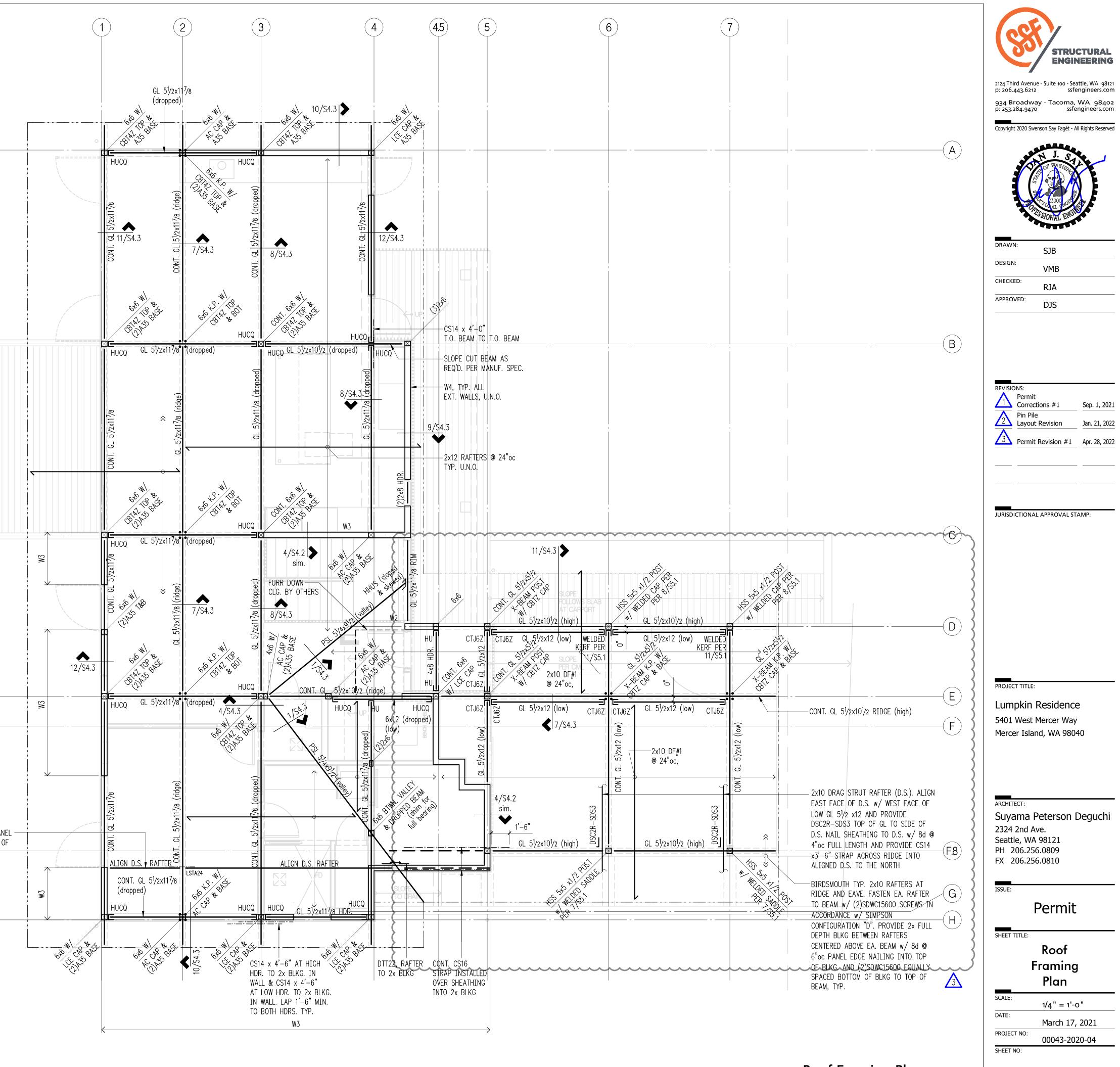
1. DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.

- ROOF SHEATHING SHALL BE 1/2" A.P.A. RATED PANELS (EXPOSURE 1, SPAN RATING 32/16), FACE GRAIN PERPENDICULAR TO ROOF FRAMING PER PLAN. NAIL SHEATHING AT ALL FRAMED PANEL EDGES WITH 8d AT 6"oc AND TO ALL INTERMEDIATE FRAMING AT 12"oc.
- 3. ROOF FRAMING SHALL BE 2x12 HEMFIR NO. 2 SPACED PER PLAN.
- HEADERS OVER DOOR AND WINDOW OPENINGS SHALL BE (2)2x8/4x8 MINIMUM. PROVIDE (2) JACK STUDS AND (1) KING STUD (MINIMUM) AT EACH END OF ALL HEADERS UNLESS NOTED OTHERWISE ON PLANS.
- 5. W# INDICATES SHEARWALL. SEE SHEARWALL SCHEDULE FOR CONSTRUCTION REQUIREMENTS.
- 6. PROVIDE H6 HURRICANE TIE AT EACH TRUSS/RAFTER WHERE IT BEARS ON EXTERIOR WALL.
- 7. MANUFACTURED LUMBER PRODUCTS (LSL, LVL, PSL, GL) SHALL BE INSTALLED WITH A MOISTURE CONTENT OF 12% OR LESS. THE CONTRACTOR SHALL MAKE PROVISIONS DURING CONSTRUCTION TO PREVENT THE MOISTURE CONTENT OF INSTALLED BEAMS FROM EXCEEDING 12%.
- 8. ALL POSTS ABOVE SHALL BEAR FULLY ON BEAMS OR POSTS BELOW AND SHALL HAVE CONTINUOUS FULL BEARING THROUGH FLOORS TO THE FOUNDATION.
- 9. REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
- 10. ALL INTERIOR EXPOSED GLULAM BEAMS SHALL BE ARCHITECTURAL GRADE ROSBORO X-BEAM GLULAMS (24F-V4), TYPICAL. REFER TO ARCHITECTURE FOR ADDITIONAL REQUIREMENTS.

### Legend

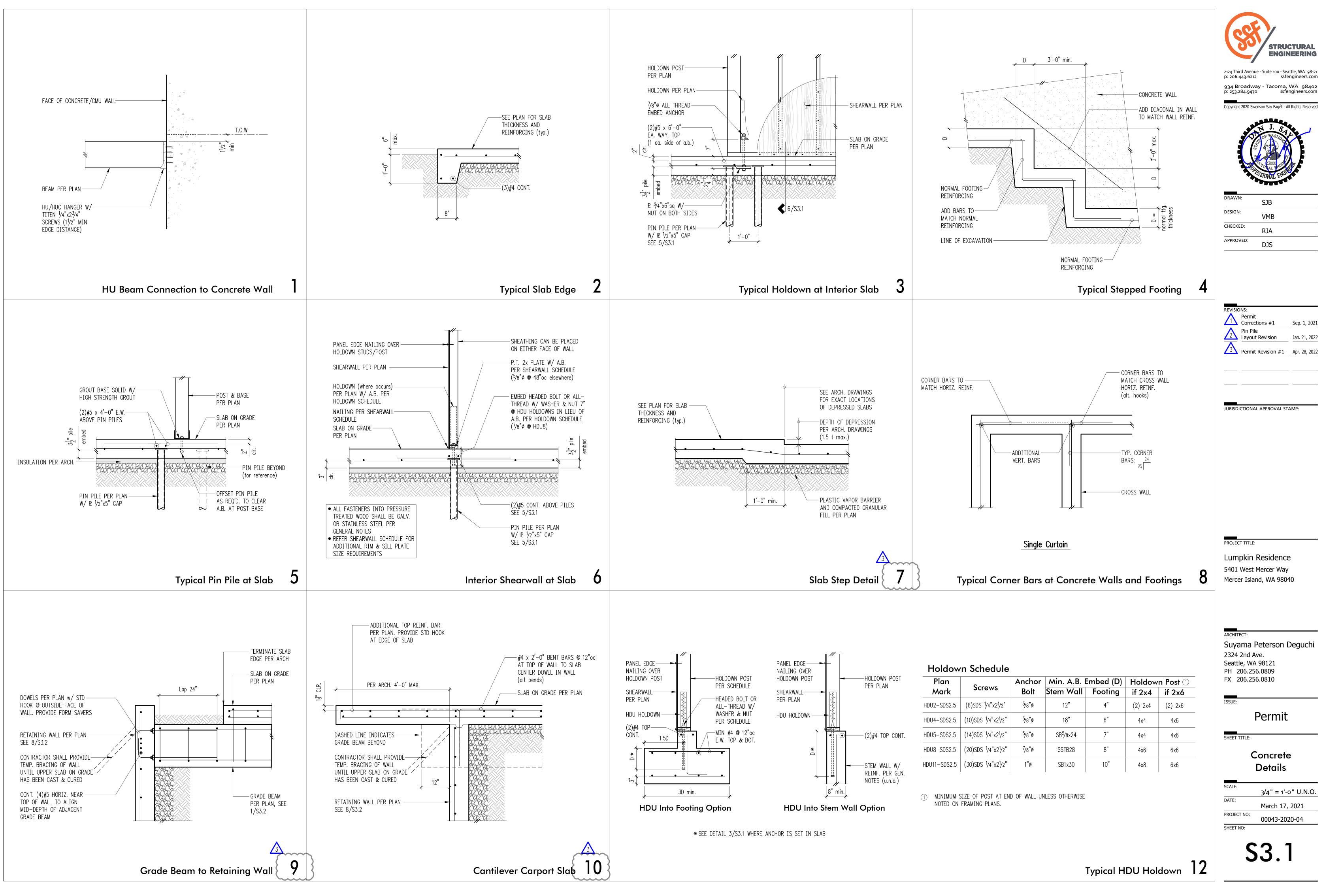
	STRUCTURAL WALL OR POST BELOW
	NON-STRUCTURAL WALL BELOW
Wx	SHEARWALL PER 12/S4.1
<u> </u>	SPAN DIRECTION
$\longleftrightarrow \rightarrow$	EXTENT OF JOISTS
	HEADER/BEAM PER PLAN
	HANGER

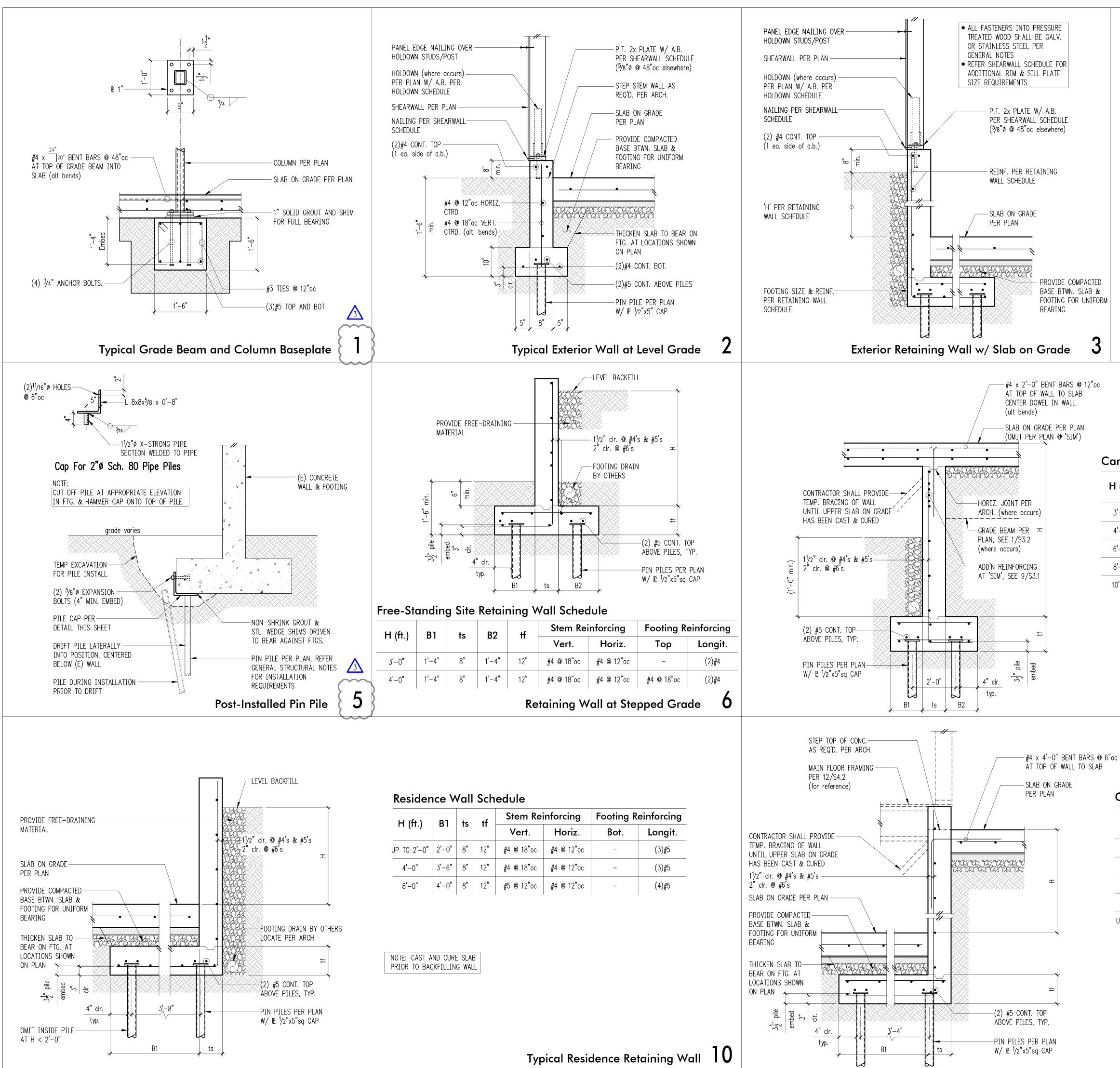
PROVIDE 8d @ 4"oc PANEL NAILING, FULL LENGTH OF DRAG STRUTS, TYPICAL AT DRAG STRUTS

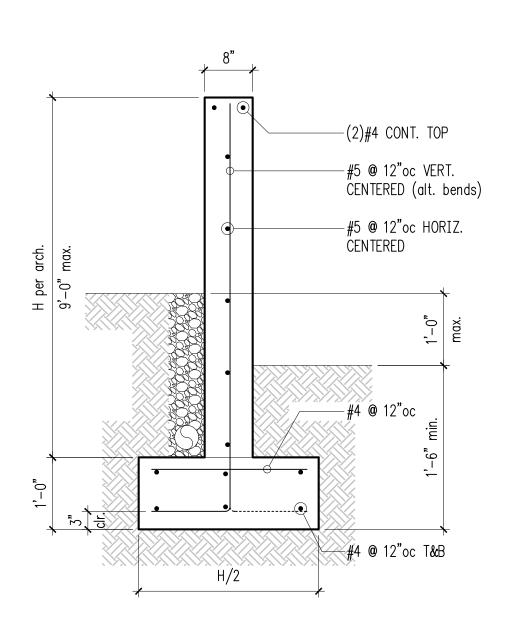


**S2.3** 

Roof Framing Plan Scale: 1/4"=1'-0"







Typical Site Retaining Wall at Level Grade



REVISIC	REVISIONS:				
	Permit				
	Corrections #1	Sep. 1, 2021			
	Pin Pile				
$\overline{2}$	Layout Revision	Jan. 21, 2022			
$\overline{3}$	Permit Revision #1	Apr. 28, 2022			

JURISDICTIONAL APPROVAL STAMP:

## Carport Retaining Wall Schedule W/ Slab

	•						
D1	ts	рл	ц	Stem Re	inforcing	Footing R	einforcing
DI		DZ	11	Vert.	Horiz.	Тор	Longit.
1'-4"	8"	1'-4"	12"	#4 @ 18"oc	#4 @ 12"oc	_	(2)#4
1'-4"	8"	1'-4"	12"	#4 @ 18"oc	#4 @ 12"oc	_	(2)#4
1'-4"	8"	1'-4"	12"	#4 @ 12"oc	#4 @ 12"oc	_	(4)#4
1'-4"	8"	1'-4"	12"	#5 @ 12"oc	#4 @ 12"oc	#4 @ 18"oc	(6)#5
1'-4"	8"	1'-4"	12"	#7 @ 12"oc	#4 @ 12"oc	#4 @ 18"oc	(8)#5
	1'-4" 1'-4" 1'-4"	1'-4"     8"       1'-4"     8"       1'-4"     8"       1'-4"     8"	1'-4" $8"$ $1'-4"$ $1'-4"$ $8"$ $1'-4"$ $1'-4"$ $8"$ $1'-4"$ $1'-4"$ $8"$ $1'-4"$ $1'-4"$ $8"$ $1'-4"$	1'-4" $8"$ $1'-4"$ $12"$ $1'-4"$ $8"$ $1'-4"$ $12"$ $1'-4"$ $8"$ $1'-4"$ $12"$ $1'-4"$ $8"$ $1'-4"$ $12"$ $1'-4"$ $8"$ $1'-4"$ $12"$ $1'-4"$ $8"$ $1'-4"$ $12"$	B1tsB2tf $1'-4"$ $8"$ $1'-4"$ $12"$ #4 @ 18"oc $1'-4"$ $8"$ $1'-4"$ $12"$ #4 @ 18"oc $1'-4"$ $8"$ $1'-4"$ $12"$ #4 @ 12"oc $1'-4"$ $8"$ $1'-4"$ $12"$ #4 @ 12"oc $1'-4"$ $8"$ $1'-4"$ $12"$ #5 @ 12"oc	Vert.Horiz. $1'-4"$ $12"$ #4 @ 18" oc#4 @ 12" oc $1'-4"$ $8"$ $1'-4"$ $12"$ #4 @ 18" oc#4 @ 12" oc $1'-4"$ $8"$ $1'-4"$ $12"$ #4 @ 12" oc#4 @ 12" oc $1'-4"$ $8"$ $1'-4"$ $12"$ #4 @ 12" oc#4 @ 12" oc $1'-4"$ $8"$ $1'-4"$ $12"$ #5 @ 12" oc#4 @ 12" oc	B1       ts       B2       tf       Vert.       Horiz.       Top         1'-4"       8"       1'-4"       12"       #4 @ 18" oc       #4 @ 12" oc       -         1'-4"       8"       1'-4"       12"       #4 @ 18" oc       #4 @ 12" oc       -         1'-4"       8"       1'-4"       12"       #4 @ 12" oc       #4 @ 12" oc       -         1'-4"       8"       1'-4"       12"       #4 @ 12" oc       #4 @ 12" oc       -         1'-4"       8"       1'-4"       12"       #5 @ 12" oc       #4 @ 12" oc       #4 @ 18" oc

Typical Retaining Wall at Carport

# Carport Retaining Wall Schedule W/ Slab

H (ft.)	B1	ts	tf	Stem Reinforcing		Footing Reinforcing	
11 (11.)	ы	15		Vert.	Horiz.	Тор	Longit.
3'-0"	3'-6"	8"	12"	#4 @ 18"oc	#4 @ 12"oc	_	(2)#4
4'-0"	3'-6"	8"	12"	#4 @ 18"oc	#4 @ 12"oc	_	(2)#4
6'-0"	3'-6"	8"	12"	#4 @ 12"oc	#4 @ 12"oc	_	(4)#4
8'-0"	3'-6"	8"	12"	#5 @ 12"oc	#4 @ 12"oc	#4 @ 18"oc	(6)#5
UP TO 9'-0"	3'-6"	8"	12"	#5 @ 6"oc	#4 @ 12"oc	#4 @ 18"oc	(8)#5

PROJECT TITLE:

Lumpkin Residence 5401 West Mercer Way Mercer Island, WA 98040

## ARCHITECT:

8

Suyama Peterson Deguchi 2324 2nd Ave. Seattle, WA 98121 PH 206.256.0809 FX 206.256.0810

## ISSUE

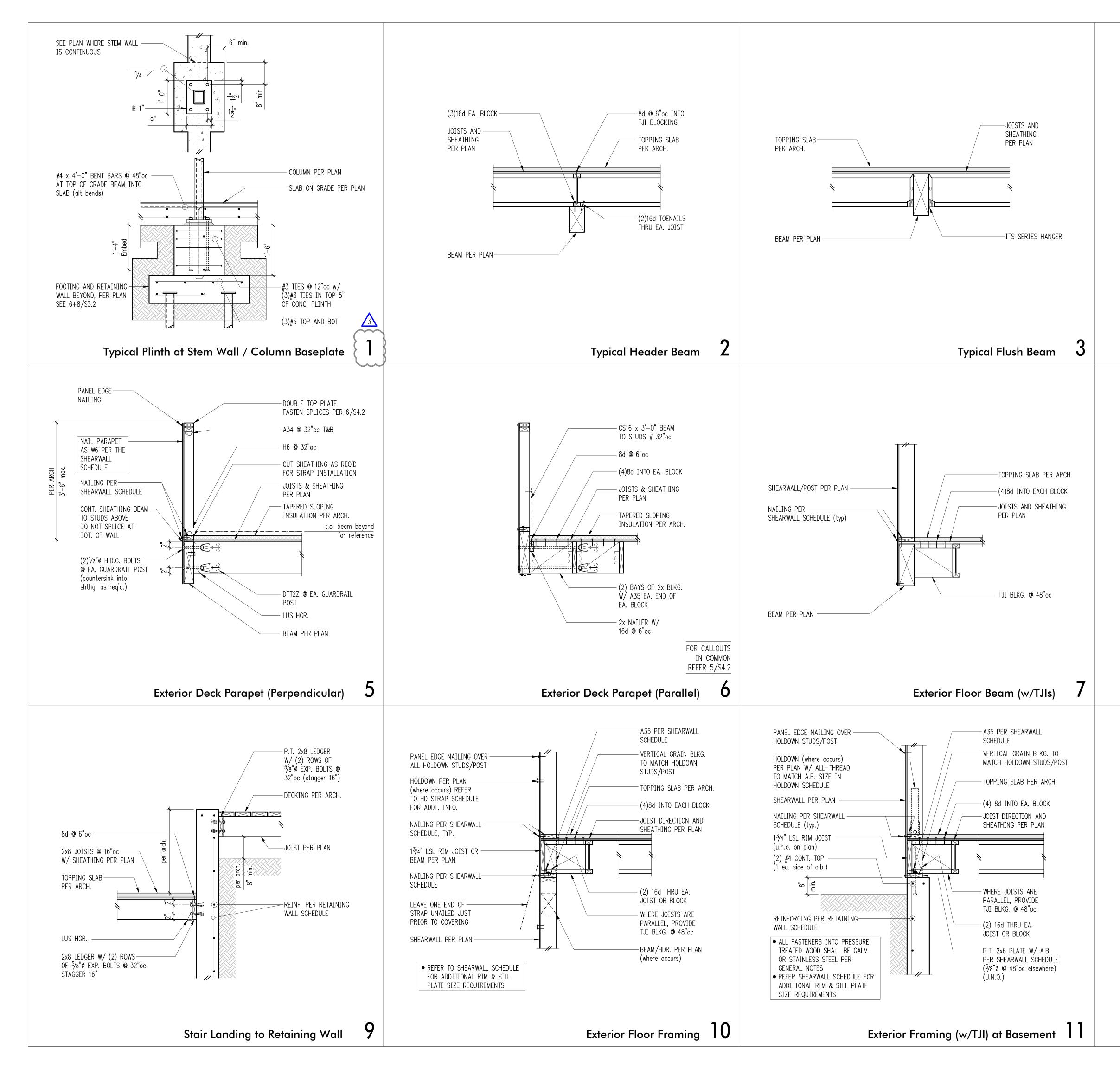
# Permit

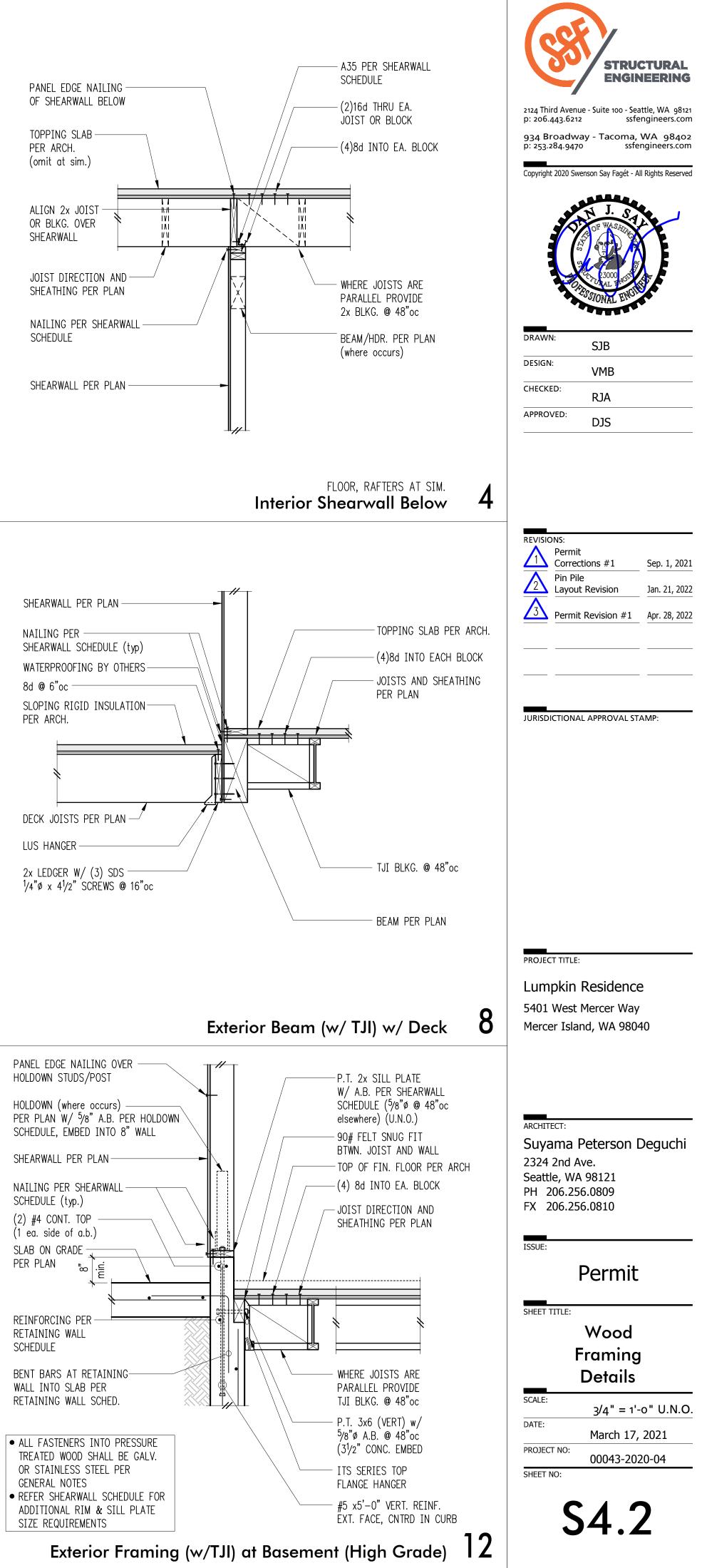
SHEET TITLE:

## Concrete Details

SCALE:	
BUILEI	3/4" = 1'-0" U.N.O.
DATE:	
	March 17, 2021
PROJECT NO:	
	00043-2020-04
SHEET NO:	

**S**3.2





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	5	
	9	

