

BUILDING CODE ANALYSIS

SUMMARY OF THE PROJECT:
ADDITION TOWARDS THE REAR ON THE MAIN FLOOR AND INTERIOR ALTERATION

BUILDING DEPARTMENT CONTACT:
CITY OF MERCER ISLAND
COMMUNITY PLANNING AND DEVELOPMENT
9611 SE 236TH STREET
MERCER ISLAND, WA 98040
EPERMIT.TECH@MERCERISLAND.GOV

APPLICABLE BUILDING CODES:
2018 INTERNATIONAL BUILDING CODE (IBC)
2020 NATIONAL ELECTRICAL CODE (NEC)
2018 INTERNATIONAL MECHANICAL CODE (IMC)
2018 INTERNATIONAL PLUMBING CODE (IPC)
2018 INTERNATIONAL FIRE CODE (IFC)
2018 ACCESSIBILITY STANDARDS
2018 WASHINGTON STATE ENERGY CODE - RESIDENTIAL

ENERGY CODE DATA:
2018 WASHINGTON STATE ENERGY CODE - RESIDENTIAL
PRESCRIPTIVE ENERGY CODE COMPLIANCE FOR ALL CLIMATE ZONES IN WASHINGTON
SINGLE FAMILY - NEW & ADDITIONS (EFFECTIVE FEBRUARY 1, 2021)

PROJECT CLASSIFICATION: 4. ADDITIONS LESS THAN 500 SF: 1.5 CREDITS REQUIRED

HEATING OPTION: 1 COMBUSTION MIN NAECA 0.0 CREDITS
ENERGY OPTION: 5.4 EFFICIENT WATER HEATING: 1.5 CREDITS

TOTAL CREDITS CLAIMED 1.5 CREDITS

1 DATA: AMERICAN STANDARD FREEDOM 80 AFUE 80%

5.4 DATA: BRADFORD WHITE RE2H50S6 ELECTRIC HEAT PUMP (OR SIMILAR TIER 1)

HOLLENBECK RESIDENCE

INTERIOR ALTERATION & ADDITION

7701 SE 39TH ST.
MERCER ISLAND, WA 98040

REVISION 1, MARCH 10, 2023

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S2	STRUCTURAL SHEAR WALL

PROJECT DIRECTORY

OWNER:
TYLER & SARAH HOLLENBECK
7701 SE 39TH ST.
MERCER ISLAND, WA 98040

DESIGNER:
DAN V. GARVIDA
GARVIDA DESIGN GROUP, LLC
12613 SE 237TH PLACE
KENT, WA 98031
206.590.1232
GARVIDADESIGNGROUP@GMAIL.COM

STRUCTURAL ENGINEER:
ROLAND HEIMISCH
TECINSTRUCT, LLC
4111 164TH ST. SW, UNIT 51
LYNNWOOD, WA 98087
206.553.9076
RHEIMISCH@YAHOO.COM

GENERAL CONTRACTOR:
TO BE DETERMINED

PROPERTY INFORMATION

PARCEL #:
545880-0525

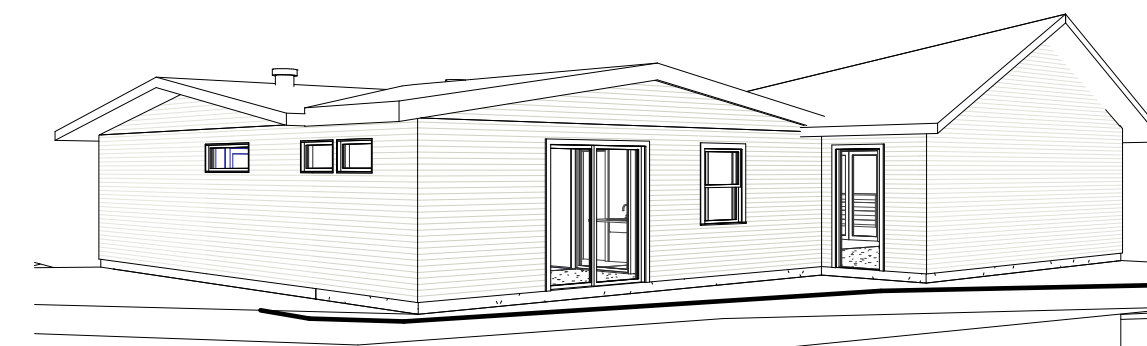
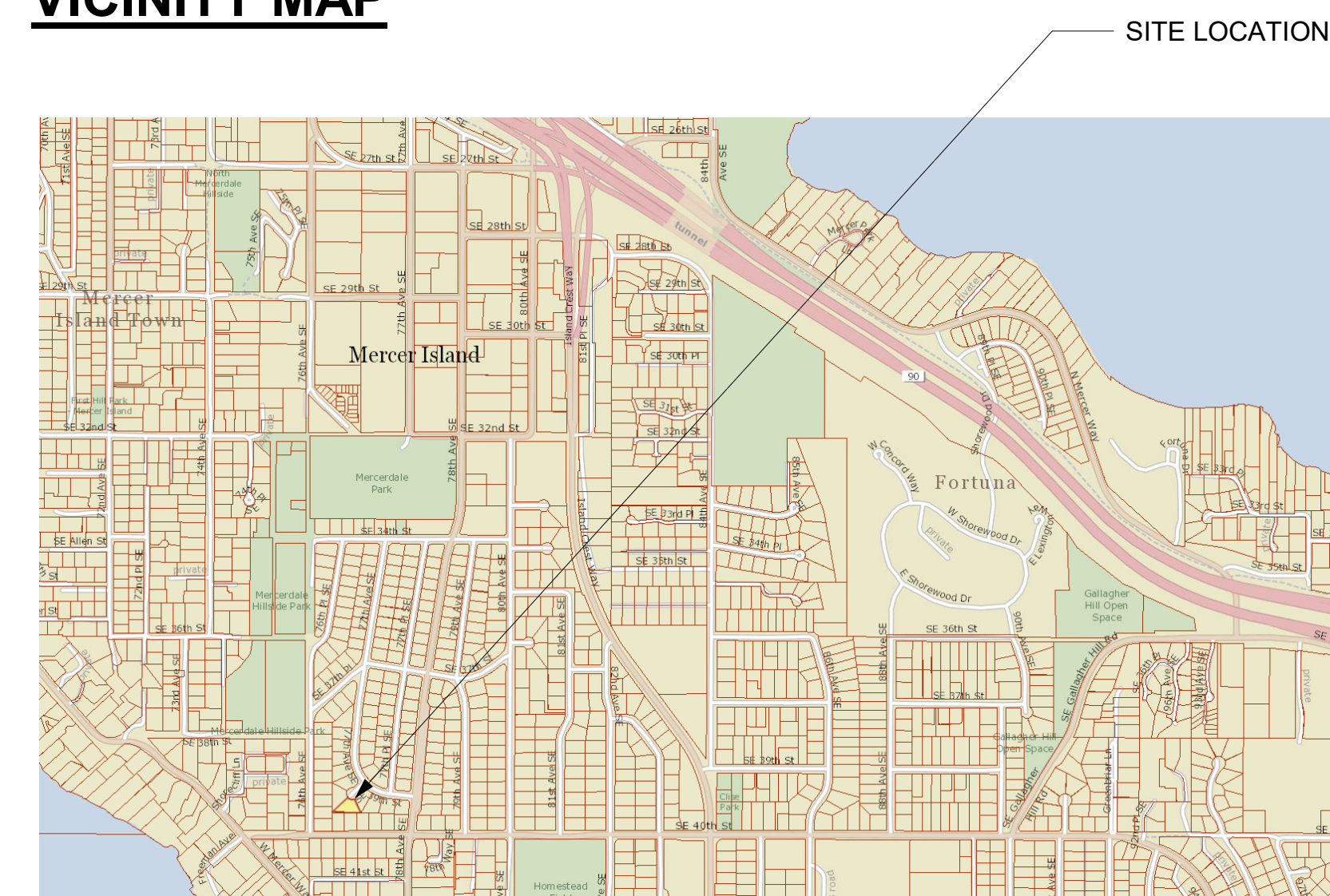
ZONING:
R-9.6

LOT SIZE #:
10,884 SF (0.25 ACRES)

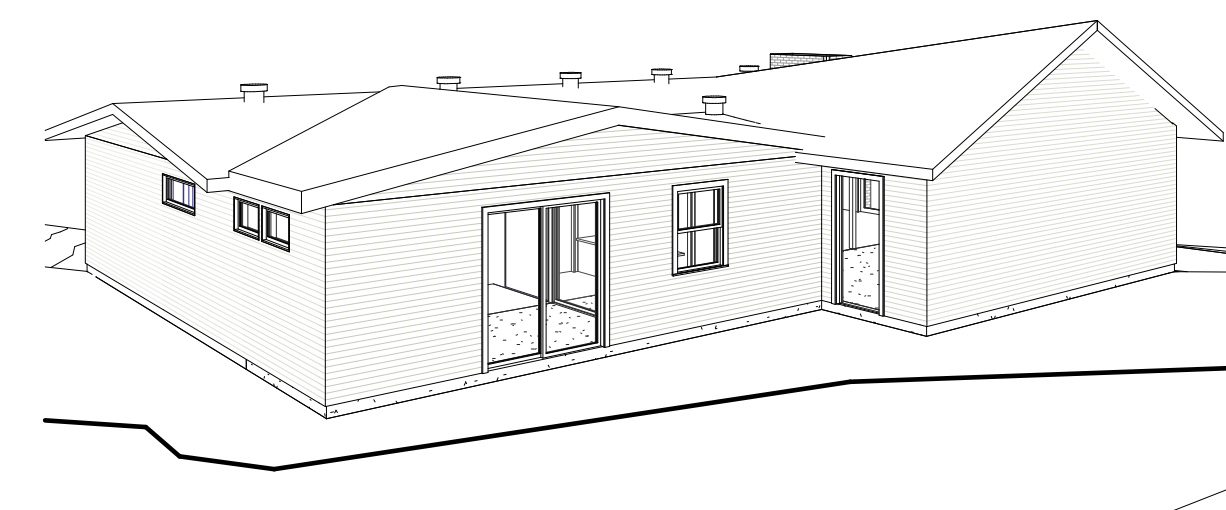
LEGAL DESCRIPTION:
MERCERDALE ADD LESS BEG AT SW COR TH S 89 DEG 05 MIN 27 SEC E 82 FT TH N 01 DEG 10 MIN 58 SEC E 3.60 FT TH N 85 DEG 28 MIN 00 SEC W 73.36 FT TH S 48 DEG 01 MIN 42 SEC W 12.04 FT TO POB
PLAT BLOCK: 6
PLAT LOT: 27

DEFERRED SUBMITTAL:

VICINITY MAP



1 3D View 2
SCALE:



2 3D View 3
SCALE:



GENERAL NOTES:

2018 IRC M1504.3 Exhaust Openings

Air exhaust openings shall terminate as follows:

- Not less than 3 feet from property lines.
- Not less than 3 feet from gravity air intake openings, operable windows and doors.
- Not less than 10 feet from mechanical air intake openings except where either of the following apply:
 - The exhaust opening is located not less than 3 feet above the air intake opening.
 - The exhaust opening is part of a factory-built intake/exhaust combination termination fitting installed in accordance with the manufacturer's instructions, and the exhaust air is drawn from a living space.
- Openings shall comply with Sections R303.5.2 and R303.6.

2018 UPC 507.2 Seismic Provisions.

- Water heaters shall be anchored or strapped to resist horizontal displacement due to earthquake motion.
- Strappings shall be at points within the upper one-third and lower one-third of its vertical dimensions. At the lower point, a distance of not less than four (4) inches (102 mm) shall be maintained from the controls to the strapping.

2018 WSEC R404.1 Lighting Equipment

- Not less than 90 percent of lamps in permanently installed lighting fixtures shall be high-efficacy lamps.

2018 WSEC R403.5.3 Hot Water Pipe Insulation

- Insulation for hot water pipe, both within and outside the conditioned space, shall have a minimum thermal resistance (R-value) of R-3.

Exception: Pipe insulation is permitted to be discontinuous where it passes through studs, joists or other structural members and where the insulated pipes pass other piping, conduit or vents, provided the insulation is installed tight to each obstruction.

2018 IRC M1502.3 Duct Termination

- Clothes Dryer Exhaust ducts shall terminate on the outside of the building.
- Exhaust duct terminations shall be in accordance with the dryer manufacturer's installation instructions. If the manufacturer's instructions do not specify a termination location, The exhaust duct shall terminate not less than 3 feet in any direction from openings into buildings.
- Exhaust duct terminations shall be equipped with a backdraft damper. Screens shall not be installed at the duct termination.

2018 UPC 504.6 Temperature, Pressure, and Vacuum Relief Devices

- Temperature, pressure, and vacuum relief devices or combinations thereof, and automatic gas shutoff devices shall be installed in accordance with the terms of their listings and the manufacturer's installation instructions.
- A shutoff valve shall not be placed between the relief valve and the water heater or on discharge pipes between such valves and the atmosphere. The hourly British thermal units (Btu) discharge capacity or the rated steam relief capacity of the device shall be not less than the input rating of the water heater.
- Discharge piping shall be installed in accordance with Section 608.5.

2018 IRC R317.3.1 Fasteners for Preservative-Treated Wood

- Fasteners, including nuts and washers, for preservative-treated wood shall be of hot-dipped, zinc-coated galvanized steel, stainless steel, silicon bronze or copper.

Exceptions:

- 1/2-inch-diameter (12.7 mm) or greater steel bolts.
- Fasteners other than nails, staples and timber rivets shall be permitted to be of mechanically deposited zinc-coated steel with coating weights in accordance with ASTM B695, Class 55 minimum.
- Plain carbon steel fasteners in SBX/DOT and zinc coating preservative-treated wood in an interior, dry environment shall be permitted.

2018 UPC 909.0 Special Venting for Island Fixtures.

- 909.1 General. Traps for island sinks and similar equipment shall be roughed in above the floor and shall be permitted to be vented by extending the vent as high as possible, but not less than the drainboard height and then returning it downward and connecting it to the horizontal sink drain immediately downstream from the vertical fixture drain. The return vent shall be connected to the horizontal drain through a wyebranch fitting and shall, in addition, be provided with a foot vent taken off the vertical fixture vent by means of a wye branch immediately below the floor and extending to the nearest partition and then through the roof to the open air, or shall be permitted to be connected to other vents at a point not less than 6 inches (152 mm) above the flood-level rim of the fixtures served.

2018 UPC 807.3 Domestic Dishwashing Machine.

- No domestic dishwashing machine shall be directly connected to a drainage system or food waste disposer without the use of an approved dishwasher air gap fitting on the discharge side of the dishwashing machine. Listed air gaps shall be installed with the flood-level (FL) marking at or above the flood level of the sink or drainboard, whichever is higher.

Ventilation:

M1505.4.2 System controls. The whole-house mechanical ventilation system shall be provided with controls that comply with the following:

- The whole house ventilation system shall be controlled with manual switches, timers or other means that provide for automatic operation of the ventilation system that are readily accessible by the occupant;
- Whole-house mechanical ventilation system shall be provided with controls that enable manual override off of the system by the occupant during periods of poor outdoor air quality. Controls shall include permanent text or a symbol indicating their function. Recommended control permanent labeling to include text similar to the following: "Leave on unless outdoor air quality is very poor." Manual controls shall be readily accessible by the occupant;
- Whole house ventilation systems shall be configured to operate continuously except where intermittent off controls and sizing are provided per Section M1505.4.3.2.

M1505.4.3 Mechanical ventilation rate. The whole-house mechanical ventilation system shall provide outdoor air at a continuous rate as determined in accordance with Table M1505.4.3(1) or Equation 15-1.

Equation 15-1

Ventilation rate in cubic feet per minute = (0.01 × total square foot area of house) + [7.5 × (number of bedrooms + 1)] but not less than 30 cfm for each dwelling unit

**Table M1505.4.3(1)
Whole-House Mechanical Ventilation Airflow Rate**

Dwelling Unit Floor Area (square feet)	Number of Bedrooms				
	0 - 1	2	3	4	5 or more
	Airflow in cfm				
< 500	30	30	35	45	50
501 - 1,000	30	35	40	50	55
1,001 - 1,500	30	40	45	55	60
1,501 - 2,000	35	45	50	60	65
2,001 - 2,500	40	50	55	65	70
2,501 - 3,000	45	55	60	70	75
3,001 - 3,500	50	60	65	75	80
3,501 - 4,000	55	65	70	80	85
4,001 - 4,500	60	70	75	85	90
4,501 - 5,000	65	75	80	90	95

M1505.4.3.1 Ventilation quality adjustment. The minimum whole house ventilation rate from Section 1505.4.3 shall be adjusted by the system coefficient in Table M1505.4.3(2) based on the system type not meeting the definition of a *balanced whole house ventilation* system and/or not meeting the definition of a *distributed whole house ventilation* system.

$$Q_v = Q_r * C_{system}$$

(Equation 15-2)

Where:

- Q_v = Quality-adjusted ventilation airflow rate in cubic feet per minute (cfm).
- Q_r = Ventilation airflow rate, cubic feet per minute (cfm) from 15-1 or Table M1505.4.3(1).
- C_{system} = System coefficient from Table 1505.4.3(2).

**Table M1505.4.3(2)
System Coefficient (C_{system})**

System Type	Distributed	Not Distributed
Balanced	1.0	1.25
Not balanced	1.25	1.5

M1505.4.3.2 Intermittent off operation. Whole-house mechanical ventilation systems shall be provided with advanced controls that are configured to operate the system with intermittent off operation shall operate for a least two hours in each four-hour segment. The whole house ventilation airflow rate determined in accordance with Section M1505.4.3 as corrected by Section M1505.4.3.1 is multiplied by the factor determined in accordance with Table M1505.4.3(3).

**Table M1505.4.3(3)
Intermittent Off Whole House-Mechanical Ventilation Rate Factors^{a, b}**

Run-time % in Each 4-hour Segment	50%	66%	75%	100%
Factor ^a	2	1.5	1.3	1.0

- For ventilation system run-time values between those given, the factors are permitted to be determined by interpolation.
- Extrapolation beyond the table is prohibited.

HOLLENBECK RESIDENCE
 SINGLE FAMILY RES. ADDITION & ALTERATION
 TYLER & SARAH HOLLENBECK
 7707 SE 38TH ST
 MERCER ISLAND, WA 98040
 PARCEL #: 545880-0525

GENERAL NOTES

REVISIONS:

DATE	DESCRIPTION
MAR 10, 2023	1

Project #: 2022-020
 Date: 07/16/2022
 Drawn by: Dan Garvida
 Checked by: Hollenbeck

G-200

Scale: AS NOTED

PROJECT INFORMATION:

DESCRIPTION OF PROJECT:
ADDITION TOWARDS THE REAR OF AN EXISTING SFR ON THE MAIN LEVEL, AND INTERIOR ALTERATION.

OWNER:
TYLER & SARAH HOLLENBECK
7701 SE 39TH ST.
MERCER ISLAND, WA 98040

LOT DESCRIPTION:
MERCERDALE ADD LESS BEG AT SW COR TH S 89 DEG 05 MIN 27 SEC E 82 FT TH N 01 DEG 10 MIN 58 SEC E 3.60 FT TH N 85 DEG 28 MIN 00 SEC W 73.36 FT TH S 48 DEG 01 MIN 42 SEC W 12.04 FT TO POB
PLAT BLOCK: 6
PLAT LOT: 27

ZONING:
R-9.6

PARCEL ID:
545880-0525

AREA OF COVERAGE:
LOT AREA: = 10,884 SF (0.25 ACRES)

FLOOR AREAS:

1ST FLOOR, EXISTING	= 1,636 SF
1ST FLOOR, ADDITION, NEW	= 230 SF
BASEMENT, CONDITIONED, EXISTING	= 645 SF
BASEMENT, CONDITIONED, NEW	= 107 SF
BASEMENT, UNCONDITIONED, EXISTING	= 197 SF
GARAGE, ATTACHED, BASEMENT LEVEL, EXISTING	= 452 SF
TOTAL FLOOR AREA	= 3,467 SF (31.85%)

LOT COVERAGE:

MAIN STRUCTURE ROOF AREA, EXISTING	= 2,533 SF
DRIVEWAY, EXISTING	= 427 SF
BUILDING, ADDITION, NEW	= 230 SF
TOTAL LOT COVERAGE	= 3,190 SF (29.31%)

HARDSCAPE:

WALKWAY, FRONT, EXISTING	= 141 SF
GRAVEL, EXISTING	= 744 SF
PATIO, BACK, EXISTING	= 35 SF
TOTAL LOT COVERAGE	= 920 SF (8.45%)

IMPERVIOUS SURFACE:

MAIN STRUCTURE ROOF O.H., EXISTING & NEW	= 2,706 SF
WALKWAY, EXISTING	= 114 SF
DRIVEWAY, EXISTING	= 427 SF
GRAVEL, EXISTING	= 776 SF
TOTAL IMPERVIOUS SURFACE	= 4,023 SF (36.96%)

LOT SLOPE CALCULATIONS:

HIGHEST POINT ON PROPERTY	= 103 FT
LOWEST POINT ON PROPERTY	= 89 FT
ELEVATION DIFFERENCE	= 14 FT
DISTANCE BETWEEN HIGHEST AND LOWEST POINTS	= 100 FT
LOT SLOPE	= 14 %

AVERAGE BUILDING ELEVATION CALCULATION (ABE):

SEGMENT	LENGTH	ELEVATION	PRODUCT
W1	27.00 @	95.0	2,565
W2	44.75 @	91.0	4,072
W3	20.75 @	92.0	1,909
W4	21.75 @	96.5	2,099
W5	19.25 @	99.0	1,906
W6	23.00 @	99.5	2,289
W7	7.00 @	99.5	697
W8	27.00 @	99.5	2,687
W9	35.00 @	99.5	3,483
TOTAL ABE	225.50	96.3 OR 96'-4"	21,707

NONCONFORMING STRUCTURE CALCULATION:

SEGMENT	LENGTH	ALTERED
W1	27.00	00.00
W2	44.75	00.00
W3	20.75	00.00
W4	21.75	00.00
W5	19.25	00.00
W6	23.00	00.00
W7	15.50	00.00
W8	27.00	27.00
W9	26.50	00.00
TOTAL	225.50	27.00
TOTAL PERCENT ALTERED		12%

PARCEL DATA

Parcel	545880-0525	Jurisdiction	MERCER ISLAND
Name	HOLLENBECK TYLER+SARAH	Levy Code	1031
Site Address	7701 SE 39TH ST 98040	Property Type	R
Residential Area	034-005 (SE Appraisal District)	Plat Block / Building Number	6
Property Name		Plat Lot / Unit Number	27
		Quarter-Section-Township-Range	SE-12-24-4

Legal Description
MERCERDALE ADD LESS BEG AT SW COR TH S 89 DEG 05 MIN 27 SEC E 82 FT TH N 01 DEG 10 MIN 58 SEC E 3.60 FT TH N 85 DEG 28 MIN 00 SEC W 73.36 FT TH S 48 DEG 01 MIN 42 SEC W 12.04 FT TO POB
Plat Block: 6
Plat Lot: 27

LAND DATA

Highest & Best Use As If Vacant	SINGLE FAMILY
Highest & Best Use As Improved	PRESENT USE
Present Use	Single Family(Res Use)/Zone
Land SqFt	10,884
Acres	0.25

Percentage Unusable	
Unbuildable	NO
Restrictive Size Shape	NO
Zoning	R-9.6
Water	WATER DISTRICT
Sewer/Septic	PUBLIC
Road Access	PUBLIC
Parking	ADEQUATE
Street Surface	PAVED

Views

Rainier	
Territorial	
Olympics	
Cascades	
Seattle Skyline	
Puget Sound	
Lake Washington	
Lake Sammamish	
Lake/River/Creek	
Other View	

Waterfront

Waterfront Location	
Waterfront Footage	0
Lot Depth Factor	0
Waterfront Bank	
Tide/Shore	
Waterfront Restricted Access	
Waterfront Access Rights	NO
Poor Quality	NO
Proximity Influence	NO

Designations

Historic Site	
Current Use	(none)
Nbr Bldg Sites	
Adjacent to Golf Fairway	NO
Adjacent to Greenbelt	NO
Other Designation	NO
Deed Restrictions	NO
Development Rights Purchased	NO
Easements	NO
Native Growth Protection Easement	NO
DNR Lease	NO

Nuisances

Topography	
Traffic Noise	
Airport Noise	
Power Lines	NO
Other Nuisances	NO

Problems

Water Problems	NO
Transportation Concurrency	NO
Other Problems	NO

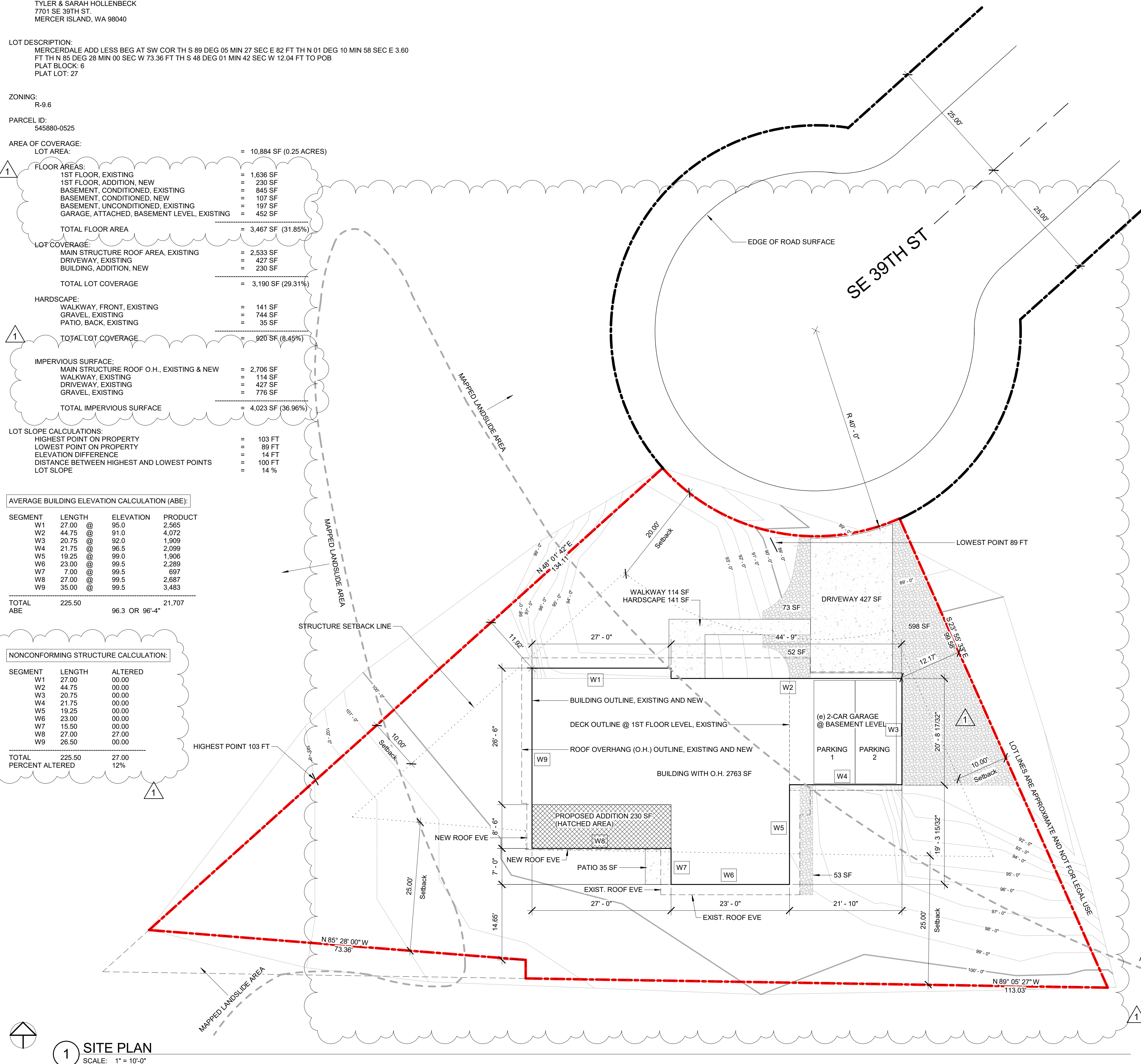
Environmental

Environmental	NO
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The following standards apply to all single family zoned property R-8.4, R-9.6, R-12, and R-15:

Minimum Front Yard Setbacks	Minimum Rear Yard Setbacks	Minimum Side Yard Setbacks	Minimum Setback From Public Rights-of-ways and vehicular access easements	Maximum Building Height ²	Maximum Gross Floor Area ²
20 feet	25 feet		10 feet	30 feet	40% of net lot area.
<p>LOT AVERAGE WIDTH 116.7' 17% OF AVERAGE WIDTH 19.84' ROUNDED TO 20.0'</p>					

Lots with a width of 90 feet or less, the side yard setback must sum to 15 feet; provided that no side yard shall be less than 5 feet. Lots with a width of more than 90 feet, the side yard setbacks must sum to 17% of the lot width; provided that no side yard shall be less than 33% of the required side yard width.



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HOLLENBECK RESIDENCE
SINGLE FAMILY RES. ADDITION & ALTERATION
TYLER & SARAH HOLLENBECK
7701 SE 39TH ST
MERCER ISLAND, WA 98040
PARCEL #: 545880-0525

SITE PLAN & PROJECT INFORMATION

REVISIONS:

MAR 10, 2023	1

Project #: 2022-020
Date: 07/16/2022
Drawn by: Dan Garvida
Checked by: Hollenbeck

C-100

Scale: AS NOTED

1 SITE PLAN
SCALE: 1" = 10'-0"

SMALL PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

DRAINAGE ASSESSMENT:

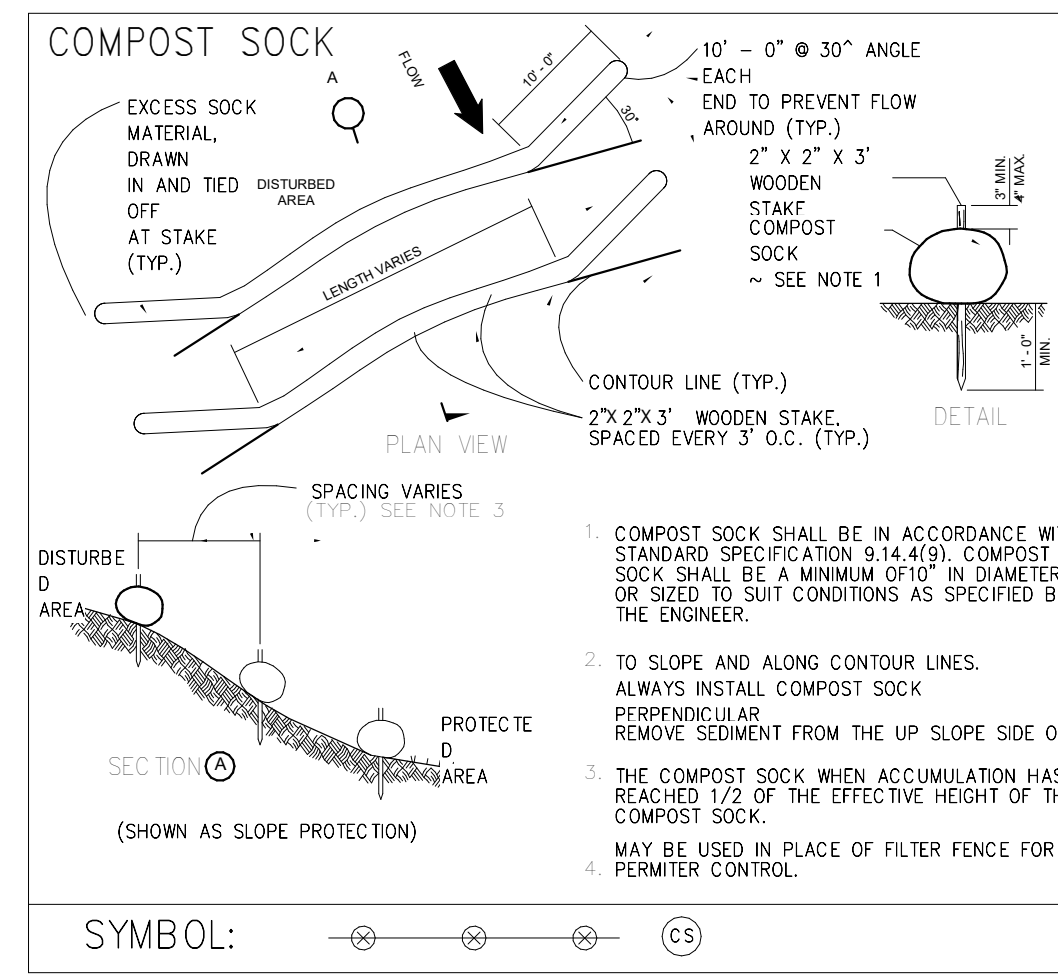
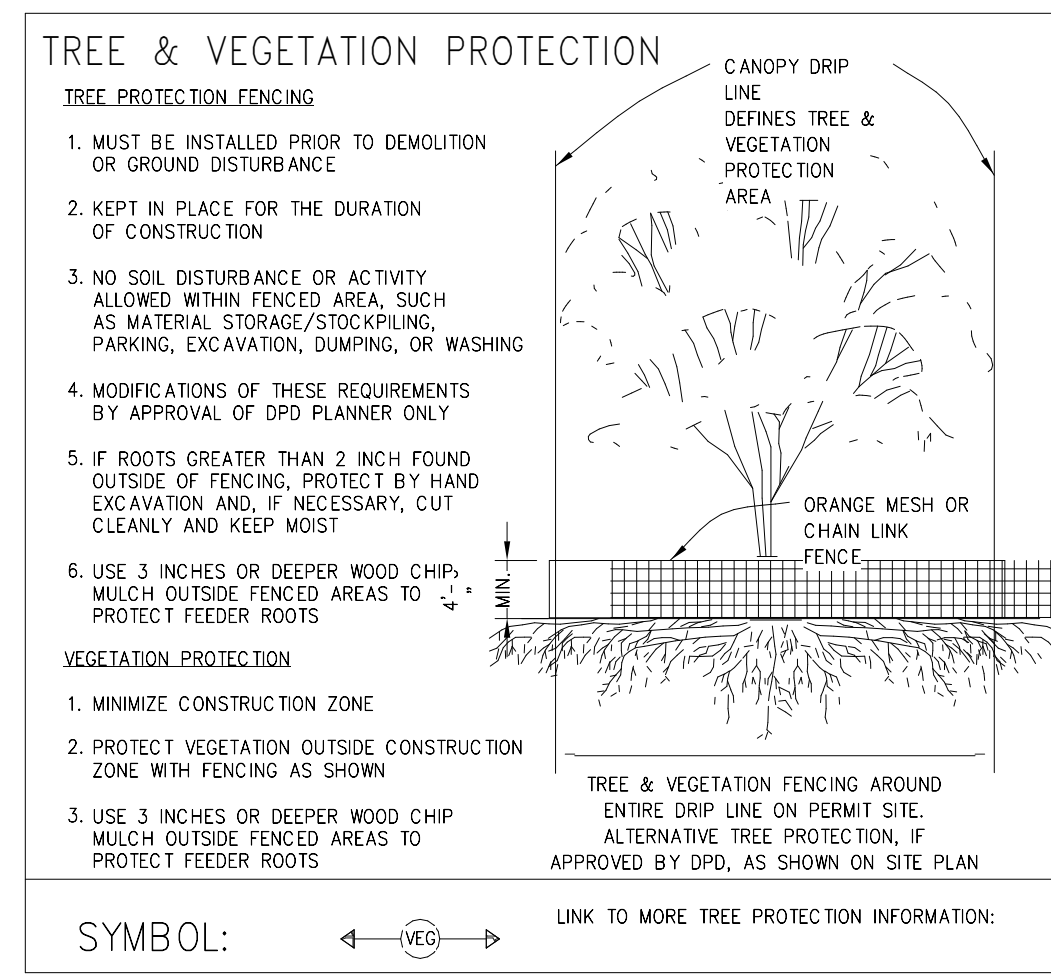
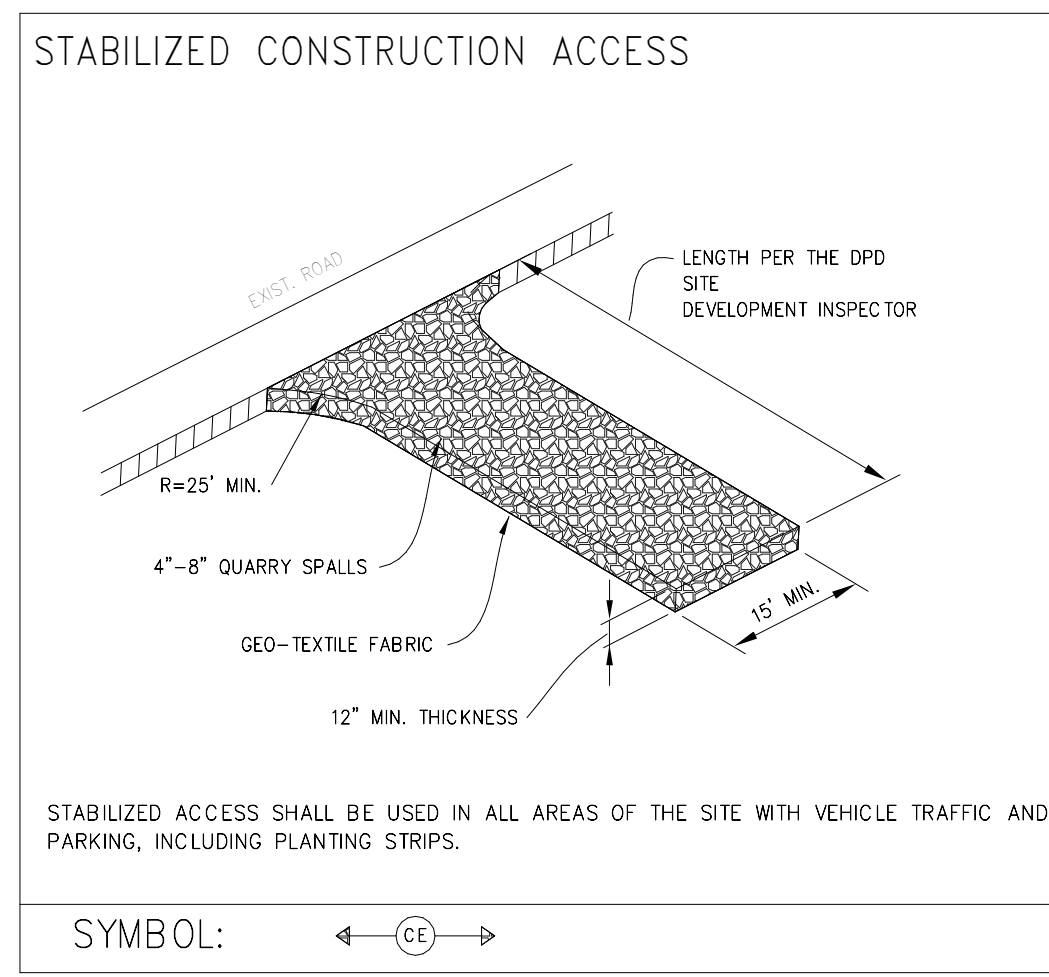
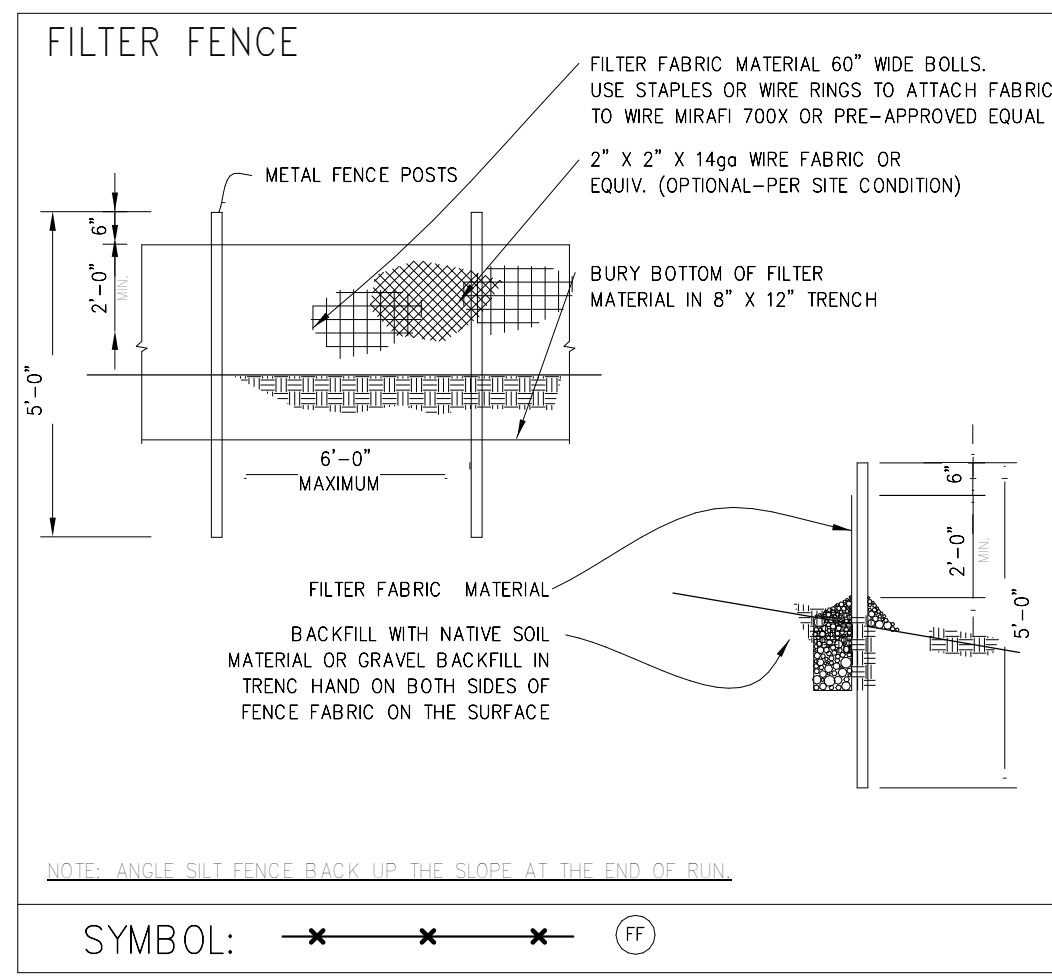
THIS PROJECT CONSIST OF CONSTRUCTING 230 SF OF 1ST FLOOR ADDITION TOWARDS THE REAR OF THE EXISTING SFR. NEW DOWNSPOUTS WILL BE CONNECTED TO EXISTING DRAINAGE SYSTEM ON SITE.

THIS PLAN IS REQUIRED FOR ALL PROJECTS WITH GREATER THAN 750 SQUARE FEET BUT LESS THAN 7,000 SF OF LAND DISTURBING ACTIVITIES.

A FIRST GROUND DISTURBANCE INSPECTION IS REQUIRED PRIOR TO START OF WORK ON ALL SITES WITH LAND DISTURBING ACTIVITY. SEE ESC INSPECTION PROCESS BELOW.

TEMPORARY AND PERMANENT BEST MANAGEMENT PRACTICES (BMPs) SHALL BE USED TO ACCOMPLISH THE FOLLOWING MINIMUM REQUIREMENTS. ADDITIONAL BMPs ARE REQUIRED WHEN MINIMUM CONTROLS ARE NOT SUFFICIENT TO PREVENT EROSION OR TRANSPORT OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE.

- MARK CLEARING LIMITS
- DELINEATE ENVIRONMENTALLY CRITICAL AREAS
- RETAIN TOP LAYER AND NATIVE VEGETATION
- ESTABLISH CONSTRUCTION ACCESS
- PROTECT DOWNSTREAM PROPERTIES AND RECEIVING WATERS
- PREVENT EROSION AND SEDIMENT TRANSPORT FROM THE SITE
- STABILIZE SOILS
- PROTECT SLOPES
- PROTECT STORM DRAINS
- STABILIZE CHANNEL AND OUTLETS
- CONTROL POLLUTANTS
- CONTROL DEWATERING
- MAINTAIN AND INSPECT BMPs
- EXECUTE CONSTRUCTION STORMWATER CONTROL PLAN
- MINIMIZE OPEN TRENCHES
- PHASE THE PROJECT
- INSTALL PERMANENT FLOW CONTROL AND WATER QUALITY FACILITIES



EROSION AND SEDIMENT CONTROL (ESC) INSPECTION NOTES:

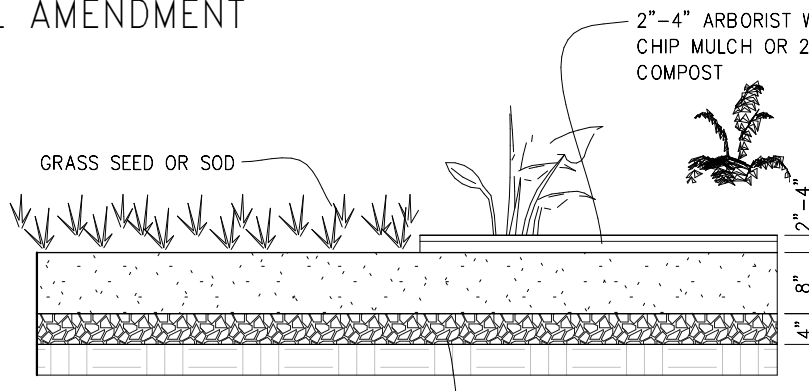
At least three ESC inspections are required. The ESC inspections will be performed by city staffs. The inspectors will verify if the proper installation and maintenance have been made.

- ESC INSPECTION 1: PRIOR TO CLEARING AND GRADING ACTIVITIES
 - THE APPLICANT CALL IN AND COORDINATES WITH AN ESC INSPECTOR. THE ESC INSPECTOR WILL OUTLINE THE EROSION AND SEDIMENT CONTROL MEASURES AND PROCESS
- ESC INSPECTION 2: DURING CONSTRUCTION
 - THE APPLICANT CONTACTS THE ESC INSPECTOR FOR A SITE INSPECTION AFTER INSTALLING SELECTED ESC BMPs. THE INSPECTOR CHECKS THAT ALL THE BMPs ARE INSTALLED PROPERLY. NO CLEARING AND GRADING ACTIVITIES SHALL TAKE PLACE PRIOR TO AN APPROVAL BY THE INSPECTOR. THE INSPECTOR MAY CONDUCT AND MONITOR THE SELECTED TOOLS DURING CONSTRUCTION.
- ESC INSPECTION 3: AFTER CONSTRUCTION
 - THE APPLICANT CONTACTS THE INSPECTOR FOR A SITE INSPECTION AFTER COMPLETING THE CONSTRUCTION PROJECT. THE INSPECTOR VERIFIES THAT ANY DISTURBED SOILS ON THE SITE ARE STABILIZED PRIOR TO OCCUPANCY

DEFINITIONS:

- TOTAL SITE AREA (A): SIZE OF THE LOT, EXPRESSED IN SQUARE FEET.
- IMPERVIOUS AREA (AI): THE TOTAL SQUARE FOOTAGE OF NEW AND/OR REPLACED IMPERVIOUS AREA. IMPERVIOUS AREAS ARE THOSE THAT WILL NOT BE VEGETATED SUCH AS BUILDING ROOF AREA, DRIVEWAYS, WALKWAYS, PATIOS, ETC. LABEL THESE AREAS AS (AI) ON THE PLAN SHEET AND NOTE THE TOTAL SQUARE FOOTAGE ON THE COMPOST CALCULATION WORKSHEET.
- NON-DISTURBED AREA (ND): VEGETATED AREAS THAT WILL NOT BE SUBJECT TO LAND DISTURBING ACTIVITY (SEE D) DO NOT REQUIRE SOIL AMENDMENT IF THEY ARE FENCED AND CONTINUOUSLY PROTECTED THROUGHOUT CONSTRUCTION. THE FENCING MUST BE IN PLACE AT THE FIRST GROUND DISTURBANCE INSPECTION. THIS WILL BE MONITORED BY THE DPD SITE INSPECTOR. NO DISTURBANCE, INCLUDING VEHICLE TRAFFIC OR MATERIAL STORAGE, IS ALLOWED IN THESE AREAS UNTIL FINAL INSPECTION. LABEL THESE AREAS AS (ND) ON THE PLAN SHEET AND NOTE THE TOTAL SQUARE FOOTAGE ON THE COMPOST CALCULATION WORKSHEET.
- OTHER (O): OTHER REPRESENTS EXISTING IMPERVIOUS SURFACE TO REMAIN, DRAINAGE FACILITIES, ENGINEERED STRUCTURAL FILL AREAS, RAIN GARDENS, ETC. LABEL THESE AREAS AS (O) ON THE PLAN SHEET AND NOTE THE TOTAL SQUARE FOOTAGE ON THE COMPOST CALCULATION WORKSHEET.
- DISTURBED AREA (D): AREA (TURF AND LANDSCAPE) THAT MUST BE AMENDED WITH A MINIMUM OF 2 INCHES OF COMPOST AND BE LOOSENEED SO IT WILL PROBE TO A DEPTH OF 12 INCHES PRIOR TO SITE FINAL INSPECTION. THIS INCLUDES AREAS IMPACTED BY CLEARING AND GRADING, STOCKPILING, SITE ACCESS, PATHWAYS AND MATERIALS OR EQUIPMENT STORAGE. LABEL THESE AREAS AS (D) ON THE PLAN SHEET AND NOTE THE TOTAL SQUARE FOOTAGE ON THE COMPOST CALCULATION WORKSHEET.

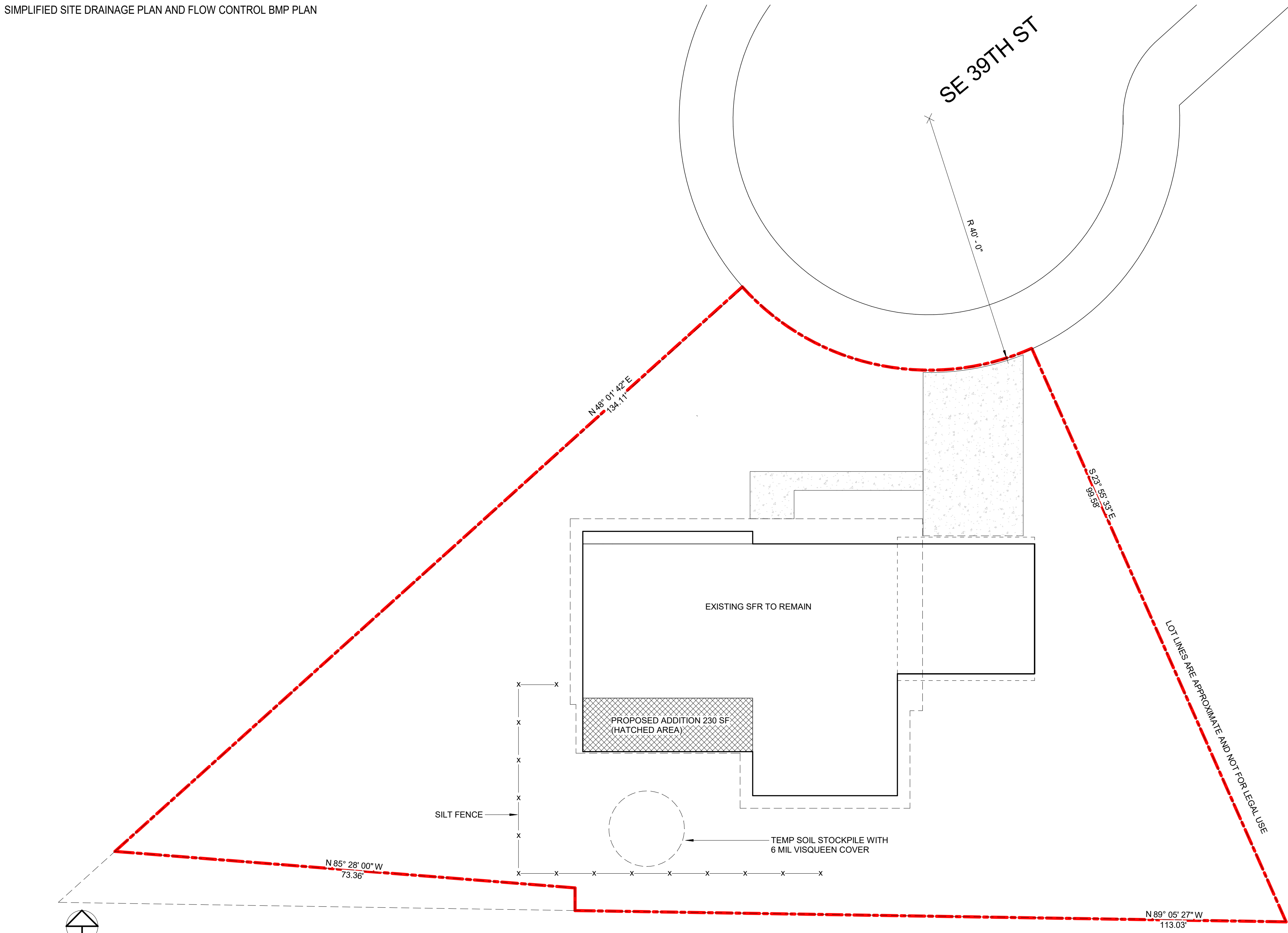
SOIL AMENDMENT



NOTES:

1. POST CONSTRUCTION SOIL AMENDMENT IS REQUIRED ON ALL AREAS NOT COVERED BY IMPERVIOUS SURFACE WHERE SOIL IS DISTURBED DURING CONSTRUCTION.
2. SOIL AMENDMENT CALCULATIONS SHALL BE SHOWN ON THE POST-CONSTRUCTION COMPOST CALCULATION WORKSHEET.
3. SOIL AMENDMENT MUST PASS A 12 INCH MINIMUM PROBE TEST.

SIMPLIFIED SITE DRAINAGE PLAN AND FLOW CONTROL BMP PLAN



1 SITE PLAN - DRAINAGE
SCALE: 1" = 10'-0"

NOTE: THIS PLAN IDENTIFIES THE MINIMUM MEASURES REQUIRED. ADDITIONAL MEASURES MAY BE REQUIRED BASED ON CONSTRUCTION METHODS AND ACTUAL AREA OF DISTURBANCE.

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SINGLE FAMILY RES. ADDITION & ALTERATION
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PARCEL #: 545880-0525

DRAINAGE & TEMPORARY EROSION CONTROL PLAN

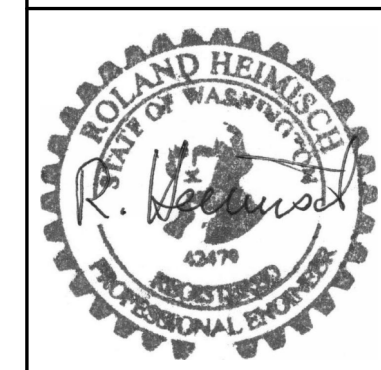
REVISIONS:

MAR 10, 2023	1

Project #: 2022-020
Date: 07/16/2022
Drawn by: Dan Garvida
Checked by: Hollenbeck

C-200

Scale: AS NOTED



HOLLENBECK RESIDENCE
 SINGLE FAMILY RES. ADDITION & ALTERATION
 TYLER & SARAH HOLLENBECK
 7707 SE 38TH ST
 MERCER ISLAND, WA 98040
 PARCEL #: 545880-025

1ST FLOOR, EXISTING & DEMO PLANS

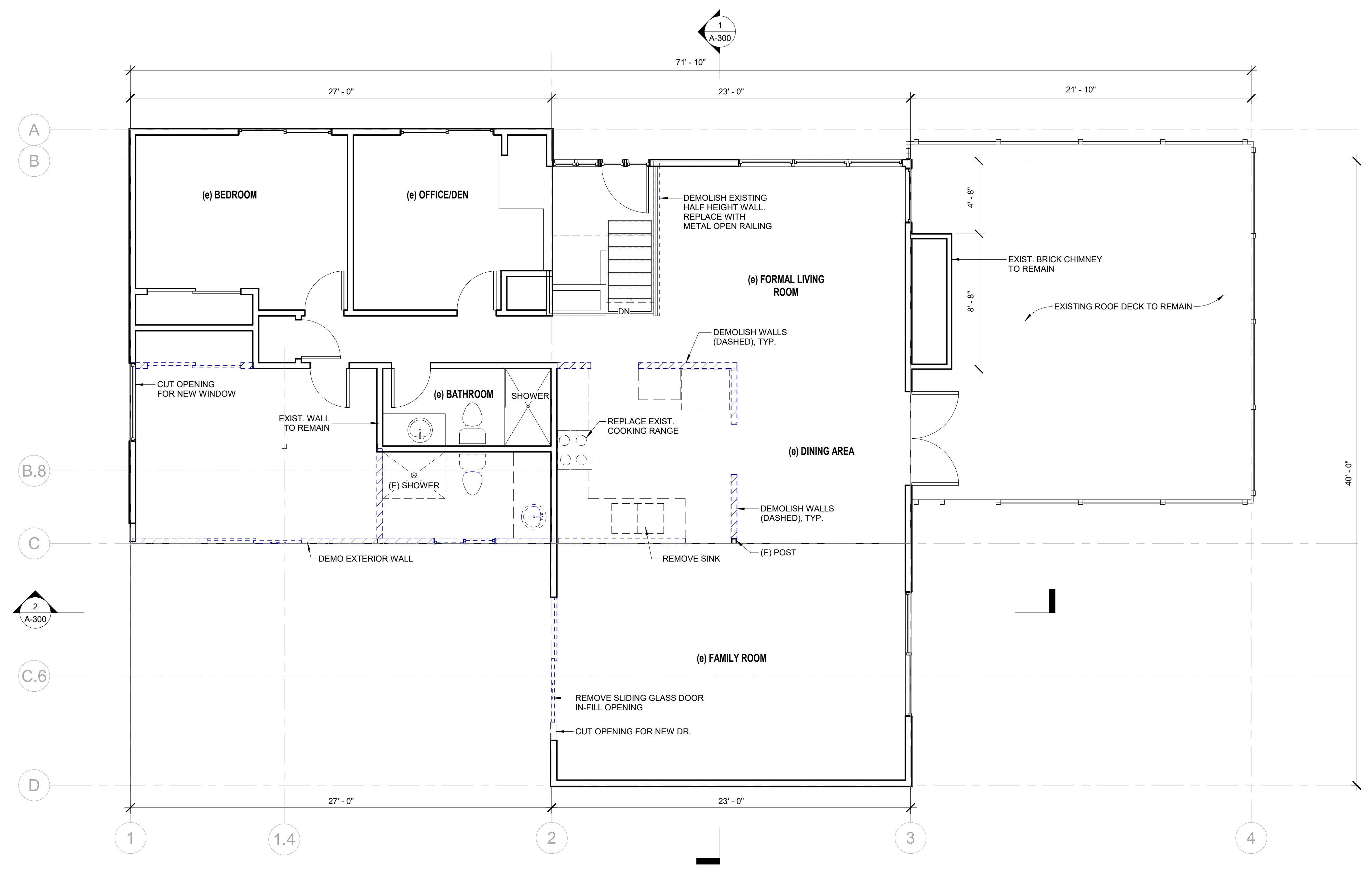
REVISIONS:

MAR 10, 2023	1

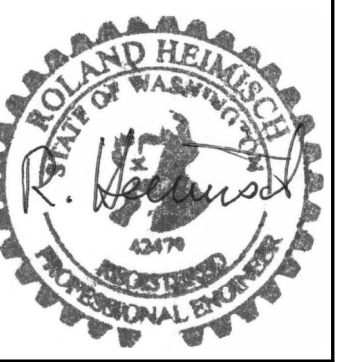
Project #: 2022-020
 Date: 07/16/2022
 Drawn by: Dan Garvida
 Checked by: Hollenbeck

A-102

Scale: AS NOTED



1 1ST FLOOR, EXISTING & DEMO PLAN
 SCALE: 1/4" = 1'-0"



STRUCTURAL MEMBER KEY:

- Key No. 01 Rafter, HF No. 2, 2x10", @ 24" o.c.
- Key No. 02 Overframing, HF No. 2, 2x6", @ 24" o.c.
- Key No. 03 Header, DF No. 2, 4x8"
- Key No. 04 Header, DF No. 2, 4x6"
- Key No. 05 Ridge Beam, Glulam WS, 24F-1.8E, 3-1/2x12"
- Key No. 06 Beam, DF No. 2, 4x12"
- Key No. 07 Post, DF No. 2, 4x4"
- Key No. 08 Spread Footing, fc = 2,500 psi, 24x24x8"
- Key No. 09 Continuous Footing, fc = 2,500 psi, 16x8"

HOLLENBECK RESIDENCE
SINGLE FAMILY RES. ADDITION & ALTERATION

TYLER & SARAH HOLLENBECK
7707 SE 38TH ST
MERCER ISLAND, WA 98040
PARCEL #: 545880-0525

ROOF PLAN & ROOF FRAMING PLANS

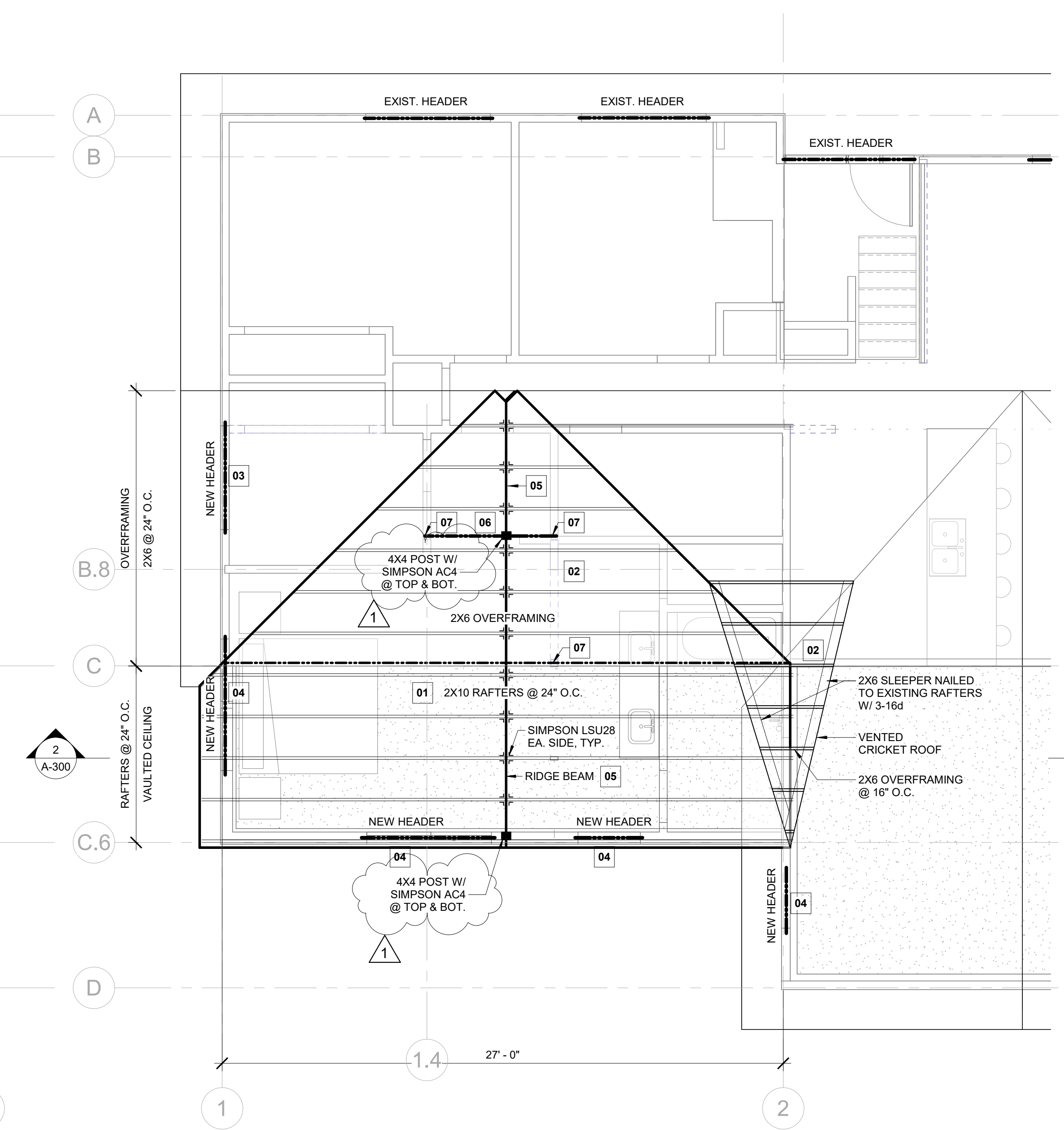
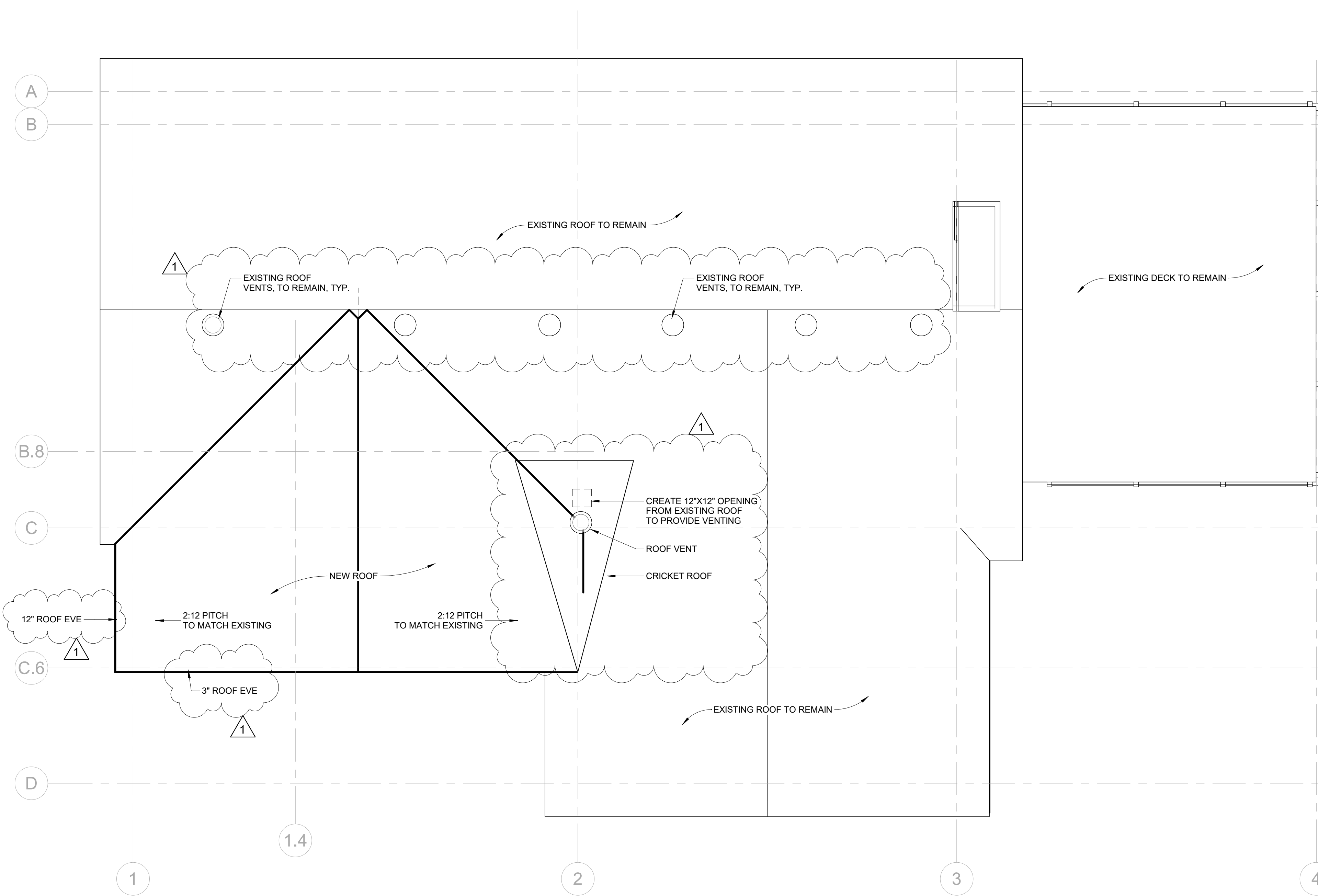
REVISIONS:

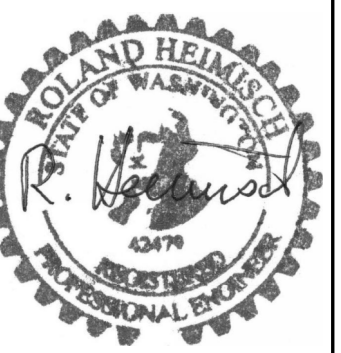
MAR 10, 2023	1

Project #: 2022-020
Date: 07/16/2022
Drawn by: Dan Garvida
Checked by: Hollenbeck

A-201

Scale: AS NOTED





HOLLENBECK RESIDENCE
 SINGLE FAMILY RES. ADDITION & ALTERATION

TYLER & SARAH HOLLENBECK
 7707 SE 38TH ST
 MERCER ISLAND, WA 98040
 PARCEL #: 545880-0525

SECTION VIEWS

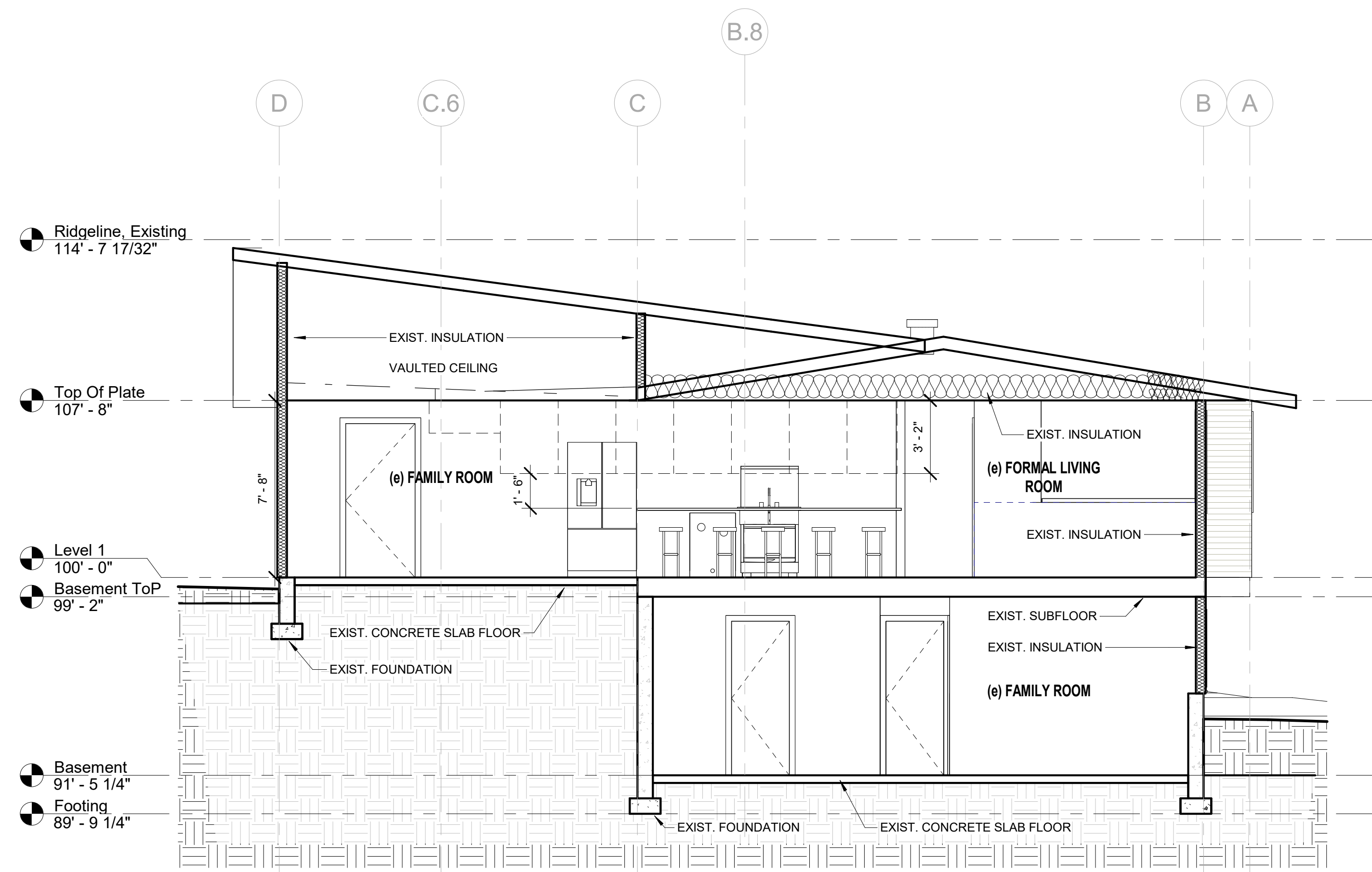
REVISIONS:

MAR 10, 2023	1

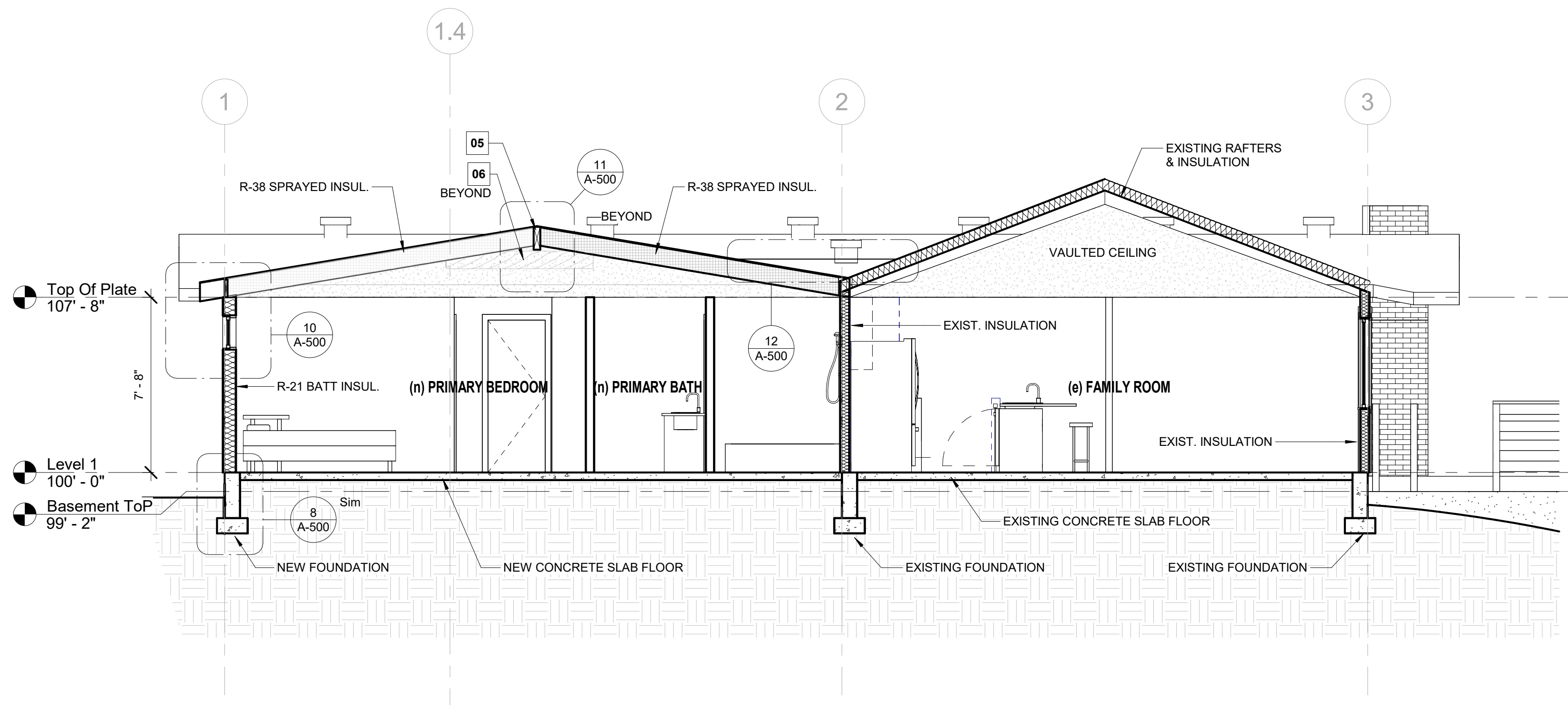
Project #: 2022-020
 Date: 07/16/2022
 Drawn by: Dan Garvida
 Checked by: Hollenbeck

A-300

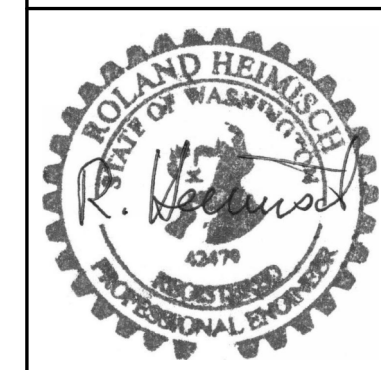
Scale: AS NOTED



1 SECTION 1
 SCALE: 1/4" = 1'-0"



2 SECTION 2
 SCALE: 1/4" = 1'-0"



HOLLENBECK RESIDENCE
 SINGLE FAMILY RES. ADDITION & ALTERATION
 TYLER & SARAH HOLLENBECK
 7707 SE 35TH ST
 MERCER ISLAND, WA 98040
 PARCEL #: 545880-0525

EAST & WEST ELEVATIONS

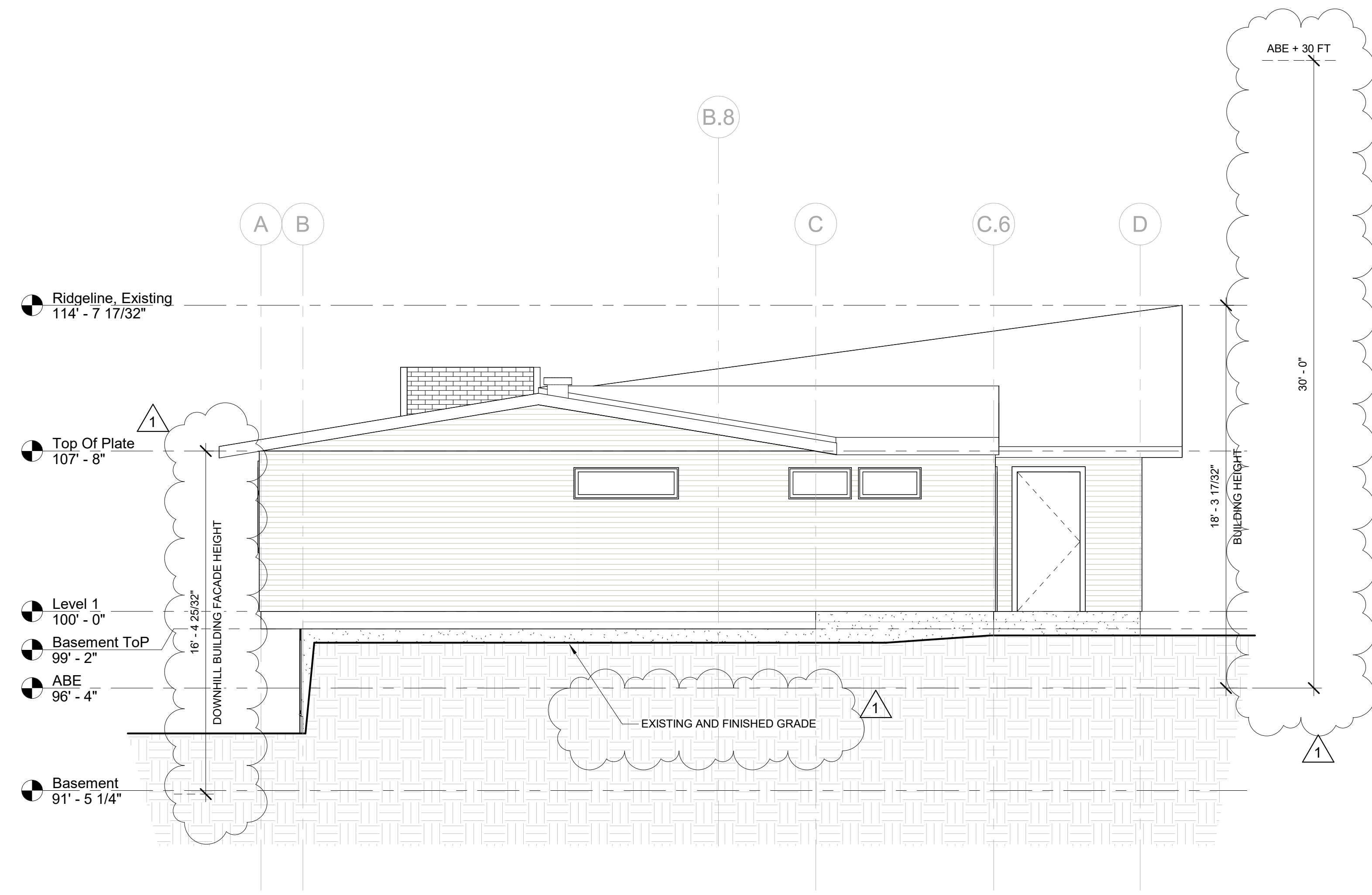
REVISIONS:

MAR 10, 2023	1

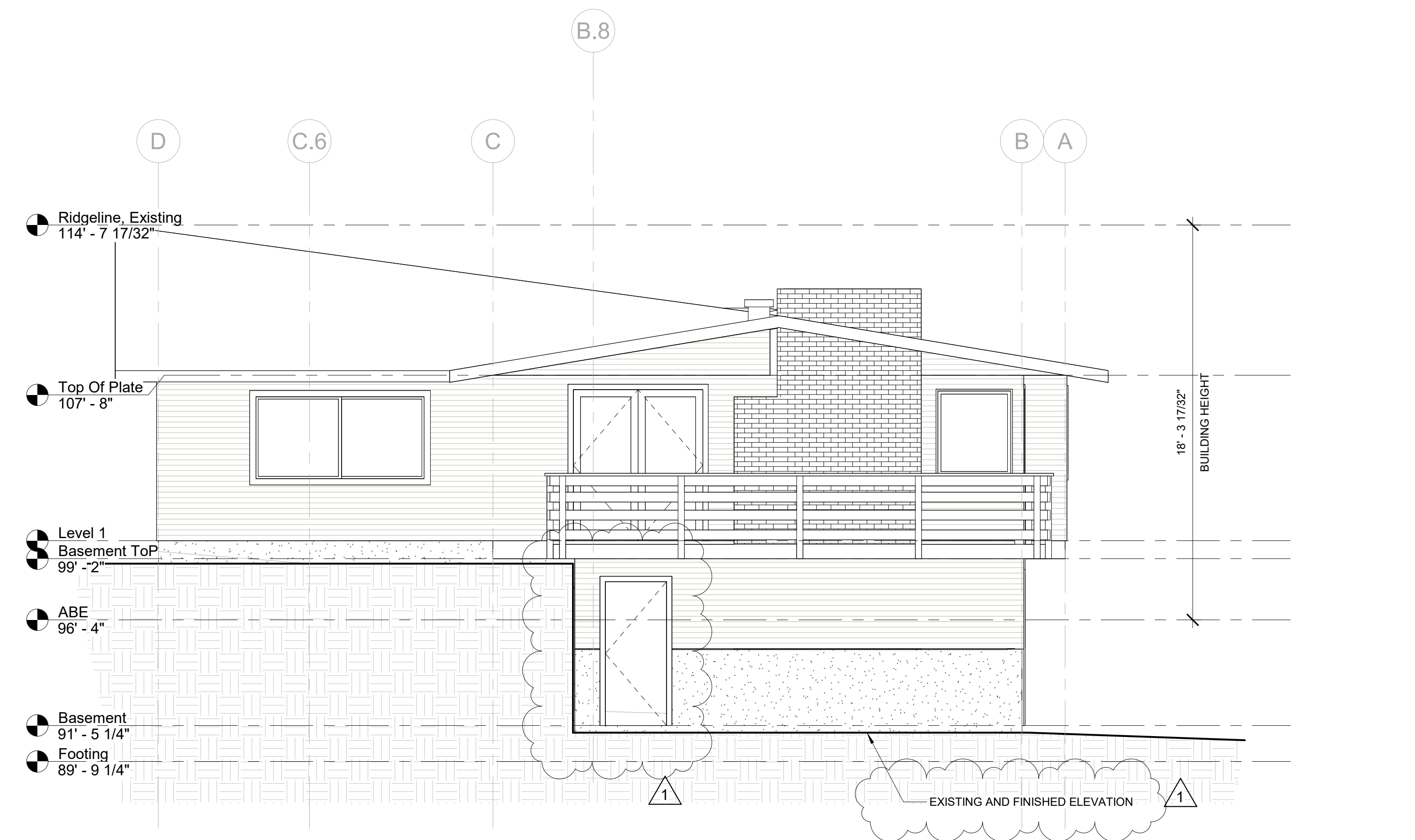
Project #: 2022-020
 Date: 07/16/2022
 Drawn by: Dan Garvida
 Checked by: Hollenbeck

A-401

Scale: AS NOTED



1 WEST (RIGHT) ELEVATION
 SCALE: 1/4" = 1'-0"



2 EAST (LEFT) ELEVATION
 SCALE: 1/4" = 1'-0"



HOLLENBECK RESIDENCE
 SINGLE FAMILY RES. ADDITION & ALTERATION
 TYLER & SARAH HOLLENBECK
 7707 SE 38TH ST
 MERCER ISLAND, WA 98040
 PARCEL #: 545880-0525

NORTH & SOUTH ELEVATIONS

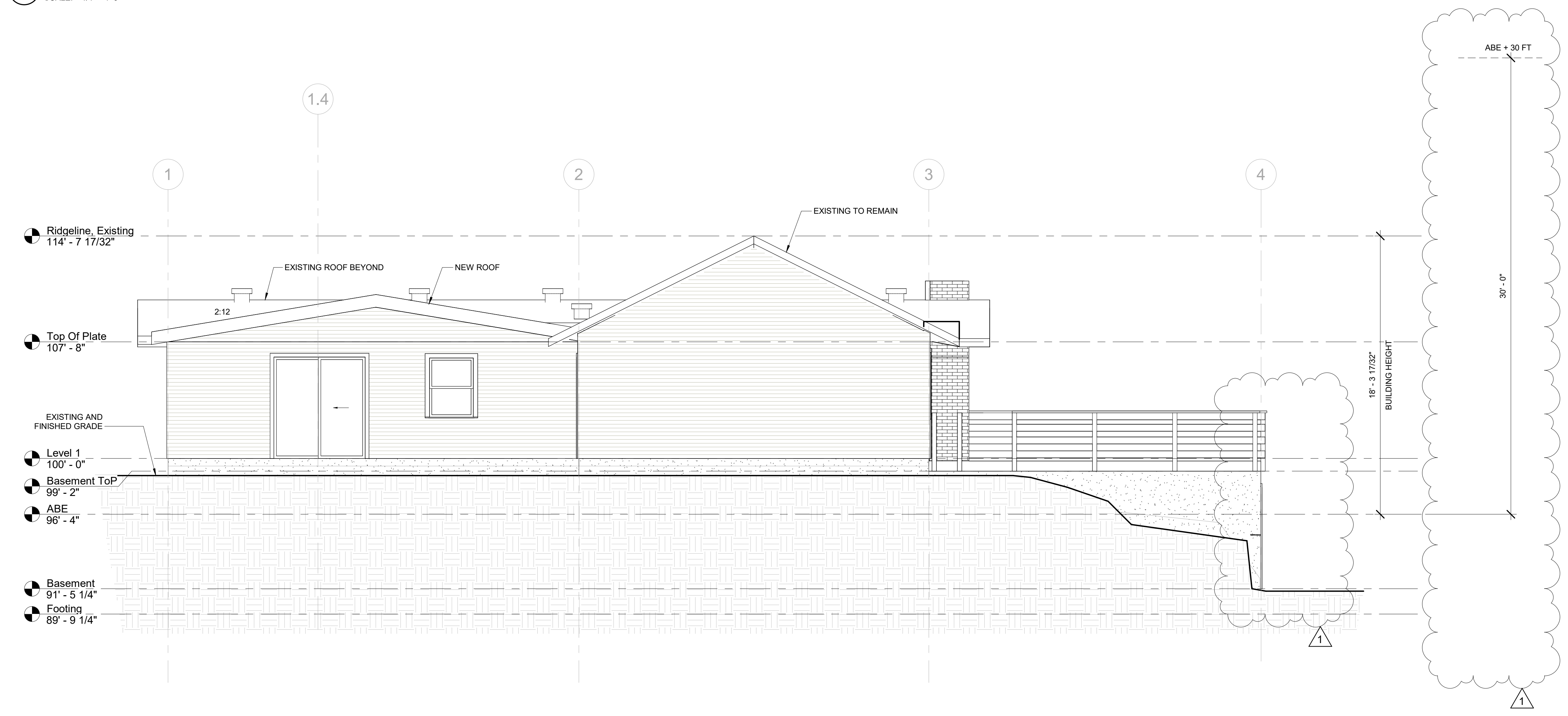
REVISIONS:

MAR 10, 2023	1

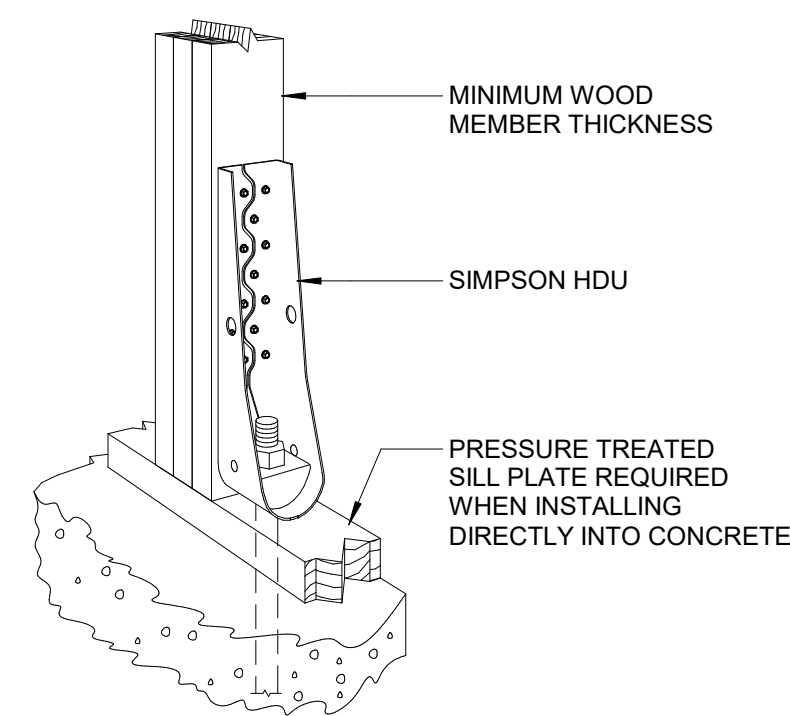
Project #: 2022-020
 Date: 07/16/2022
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2 NORTH (FRONT) ELEVATION
 SCALE: 1/4" = 1'-0"

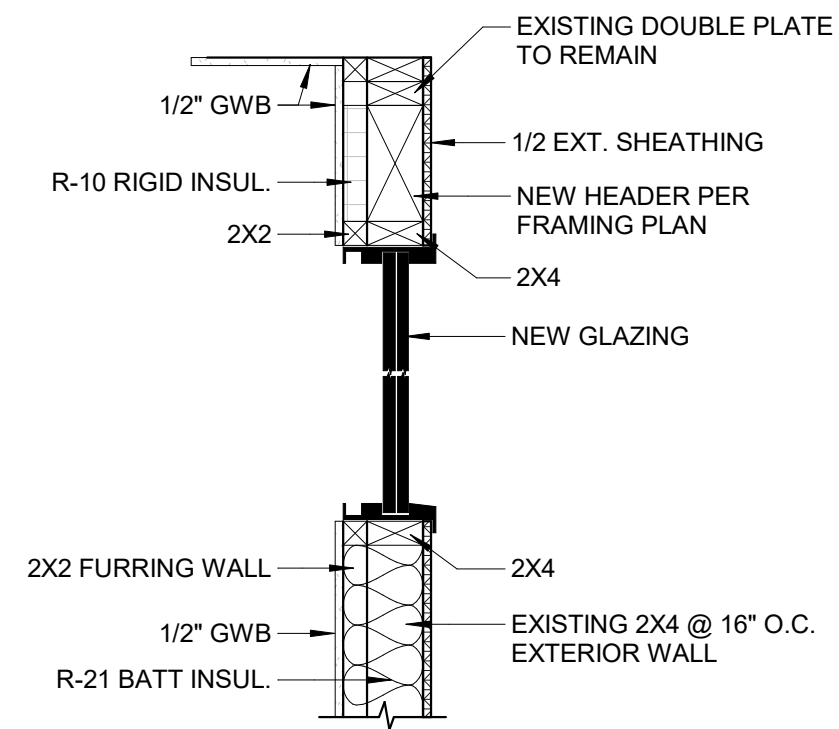


3 SOUTH (REAR) ELEVATION
 SCALE: 1/4" = 1'-0"

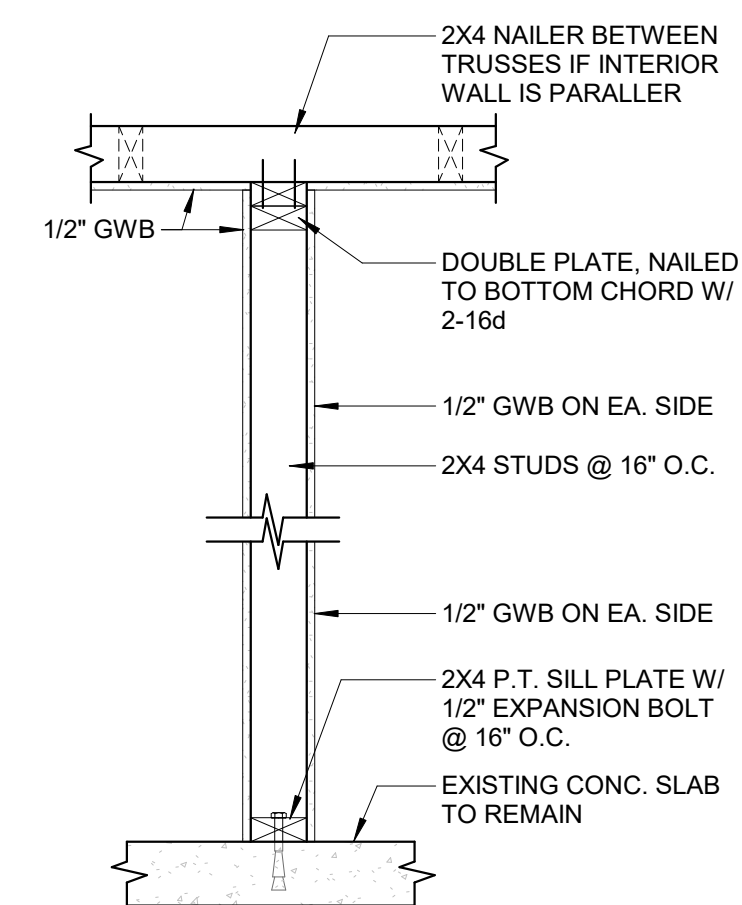


VERTICAL HDU INSTALLATION

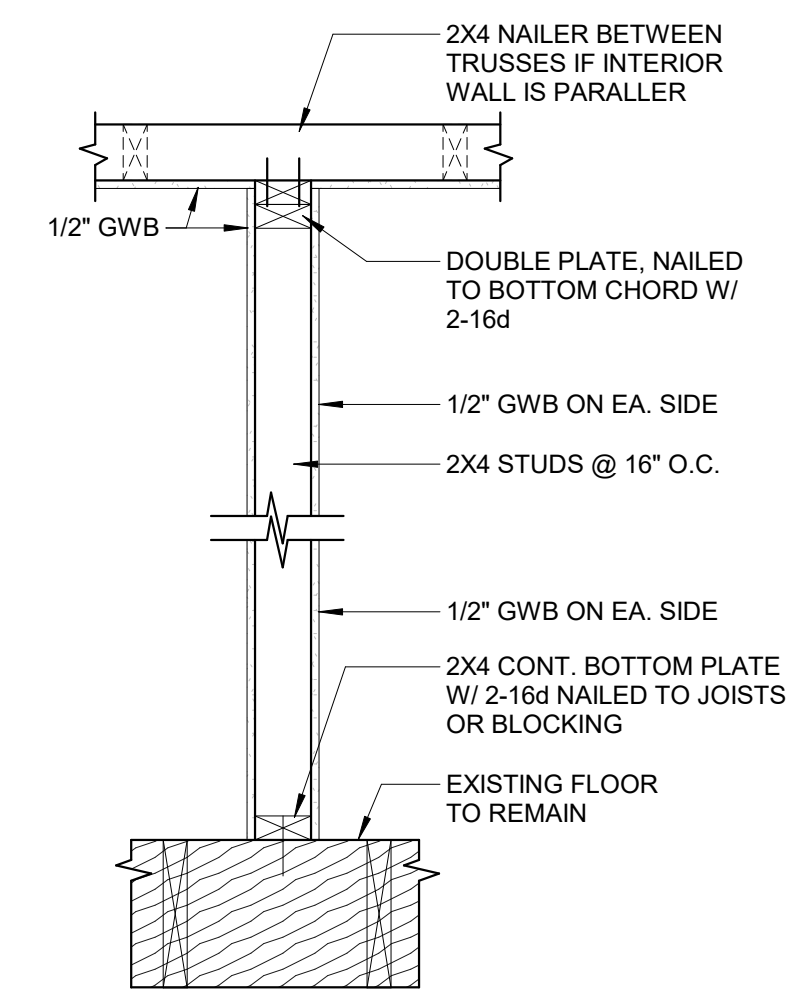
1 SIMPSON HDU2
SCALE: 3/4" = 1'-0"



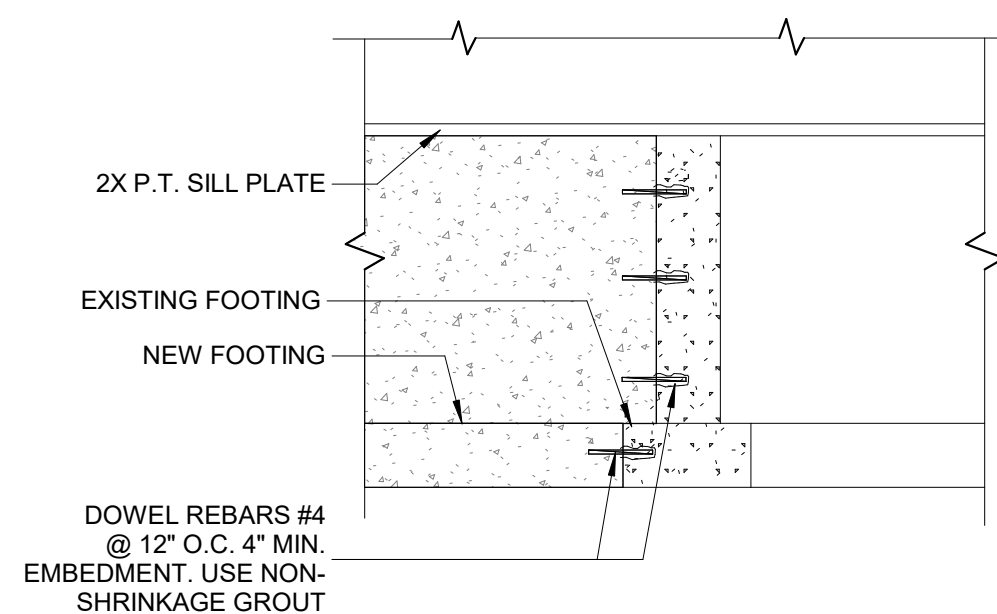
2 WINDOW OPENING DETAIL, TYP.
SCALE: 1" = 1'-0"



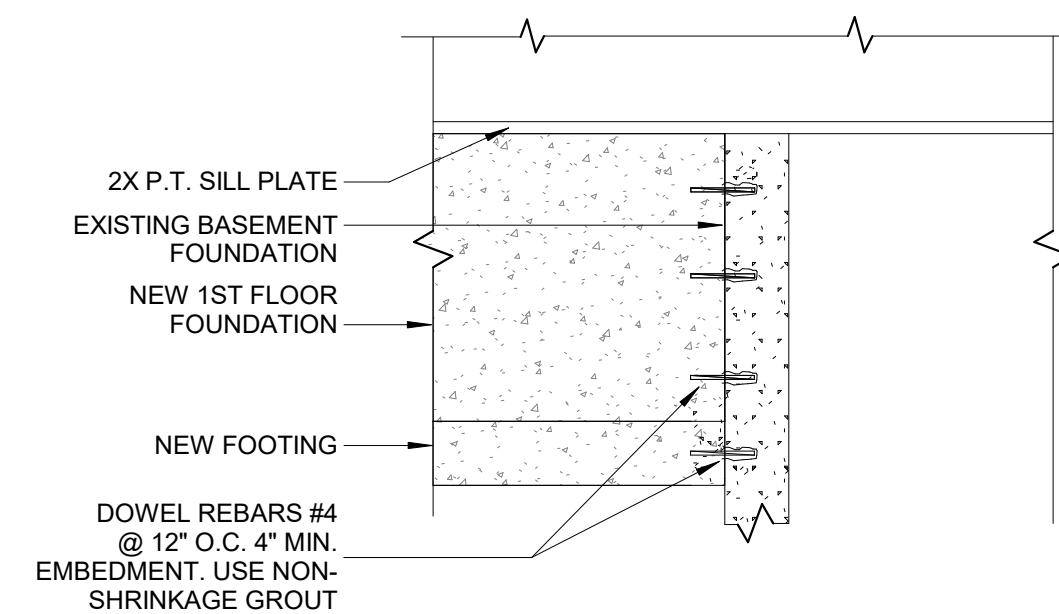
3 INTERIOR WALL DETAIL, TYP. - CONCRETE SLAB
SCALE: 1" = 1'-0"



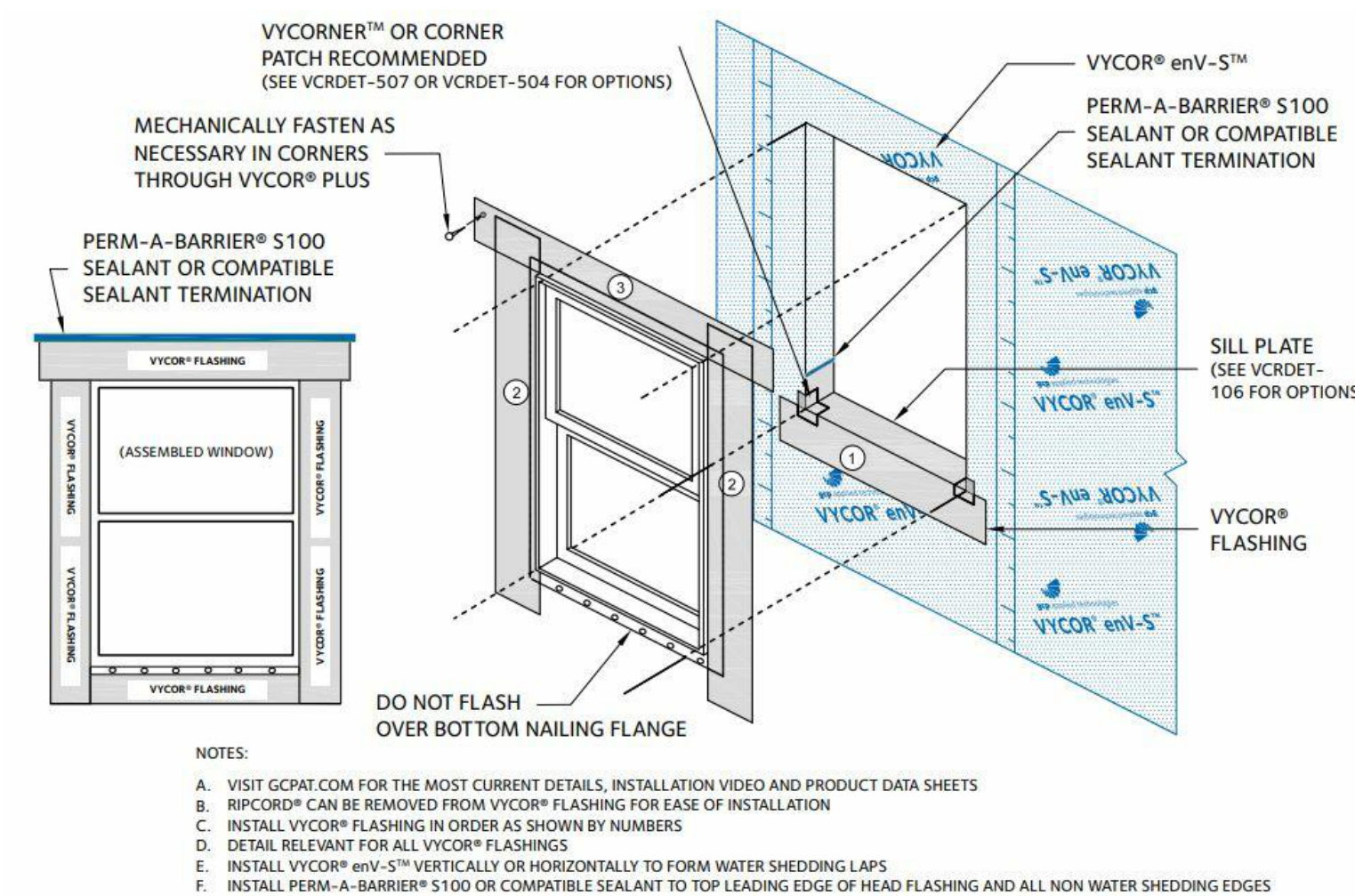
4 INTERIOR WALL DETAIL, TYP. - WOOD FLOOR
SCALE: 1" = 1'-0"



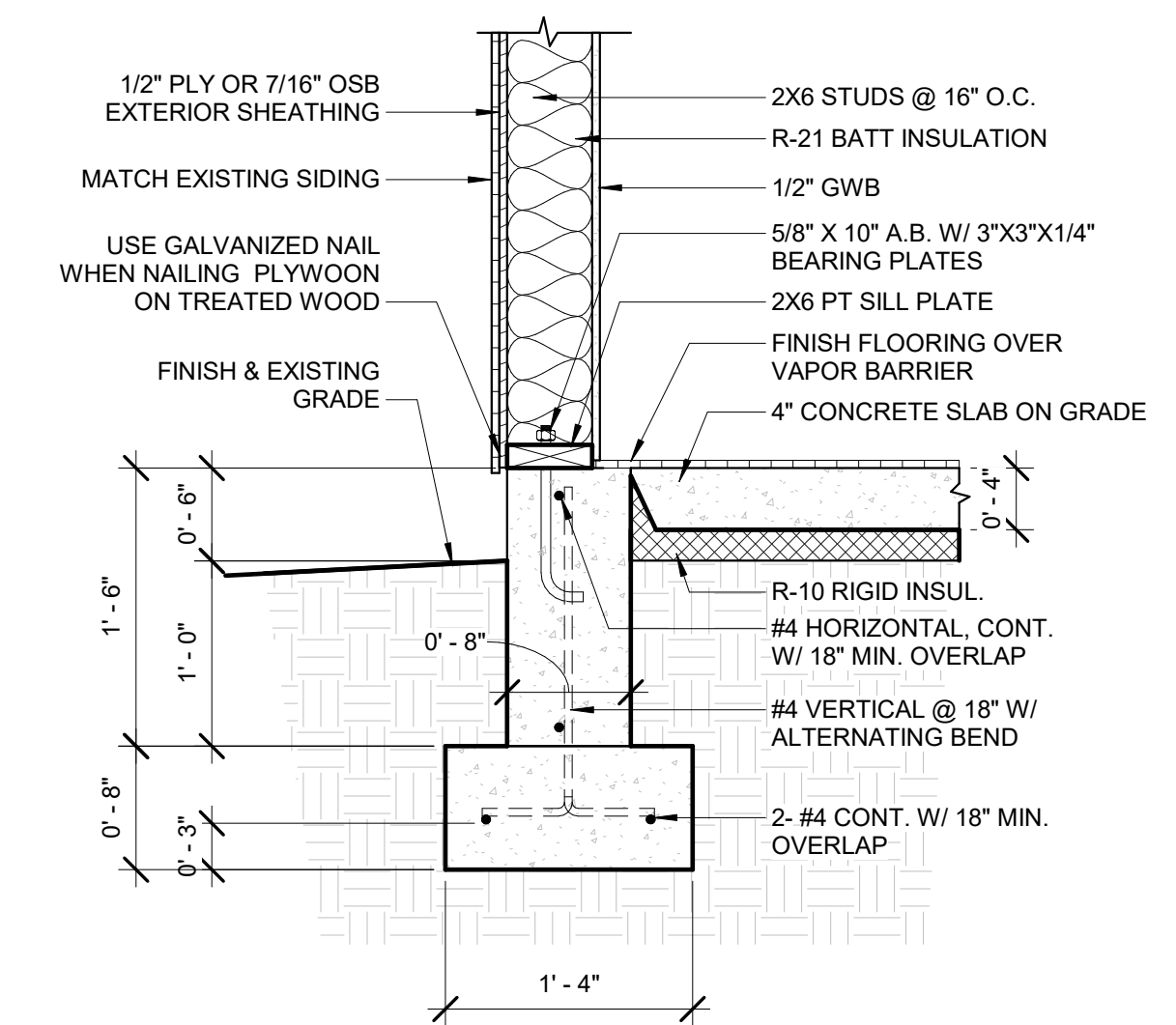
5 DOWEL CONNECTION DETAIL 1
SCALE: 1/2" = 1'-0"



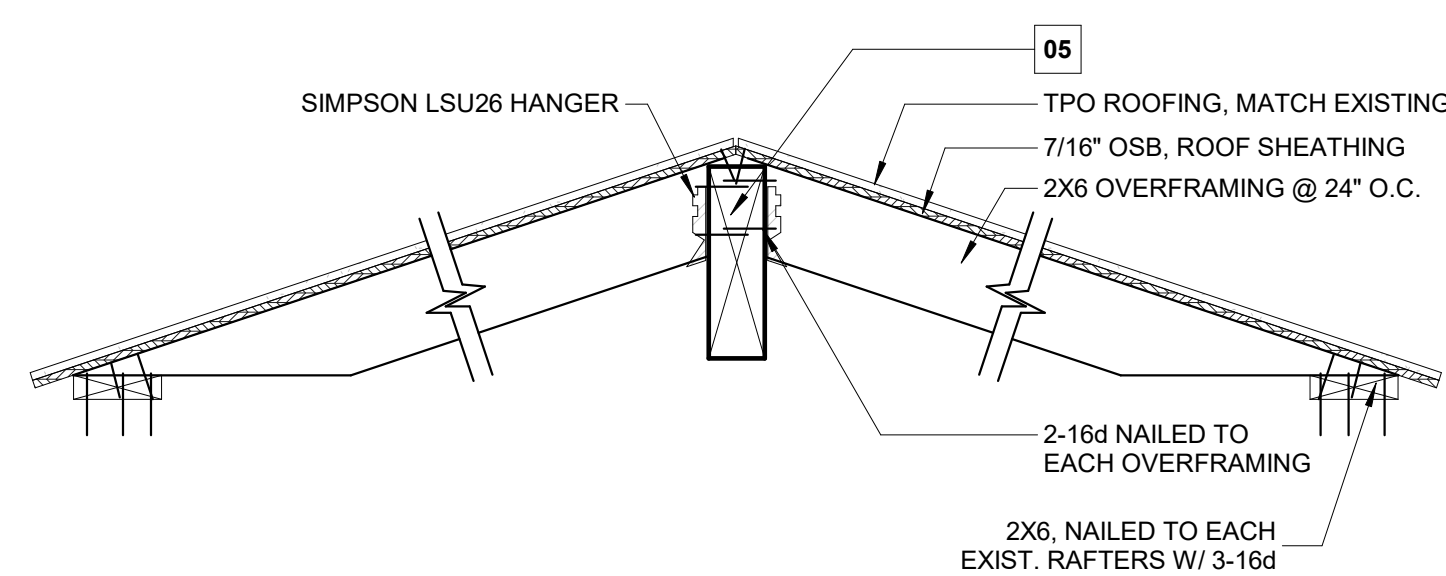
6 DOWEL CONNECTION DETAIL 2
SCALE: 1/2" = 1'-0"



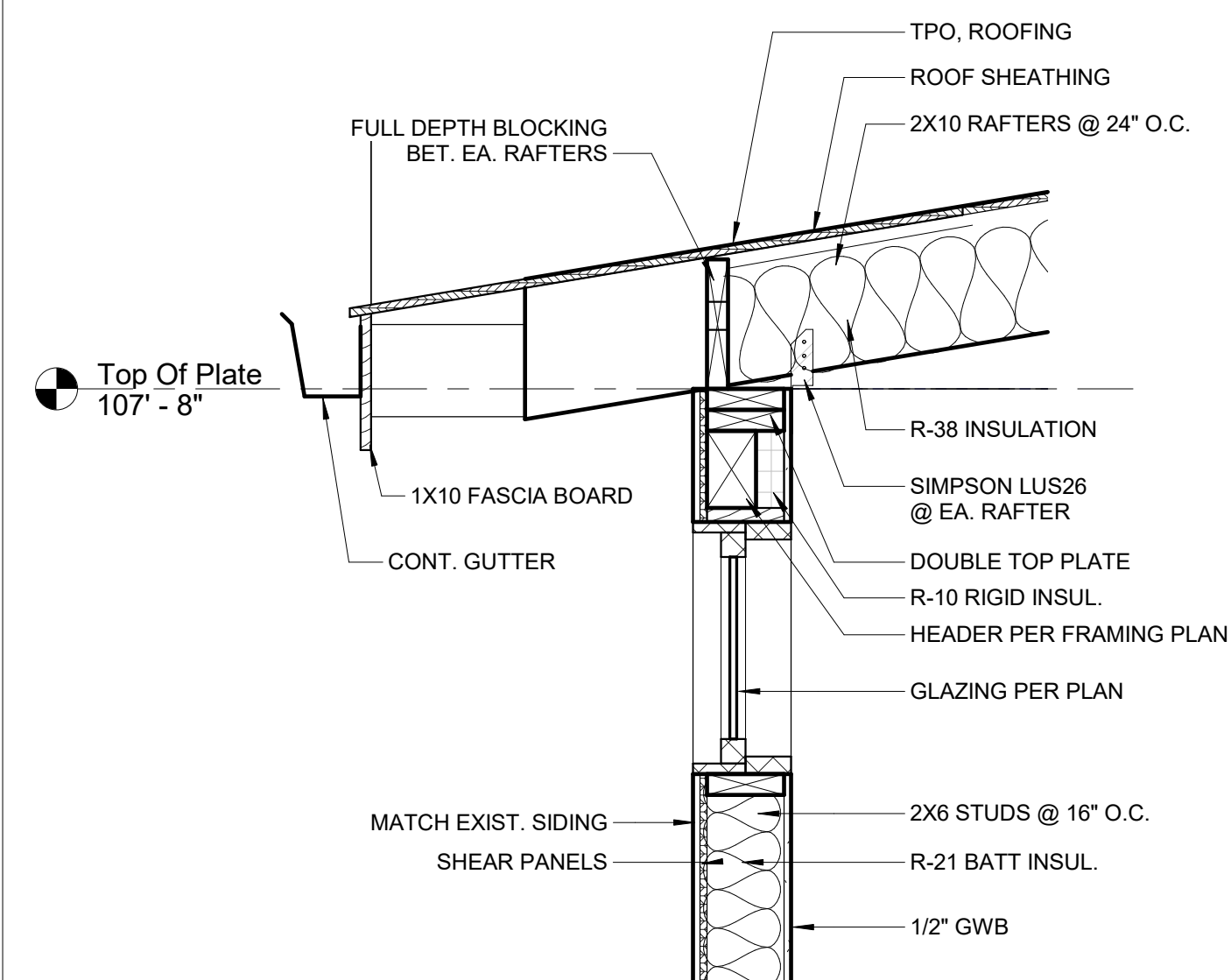
7 WINDOW FLASHING DETAIL
SCALE: 1 1/2" = 1'-0"



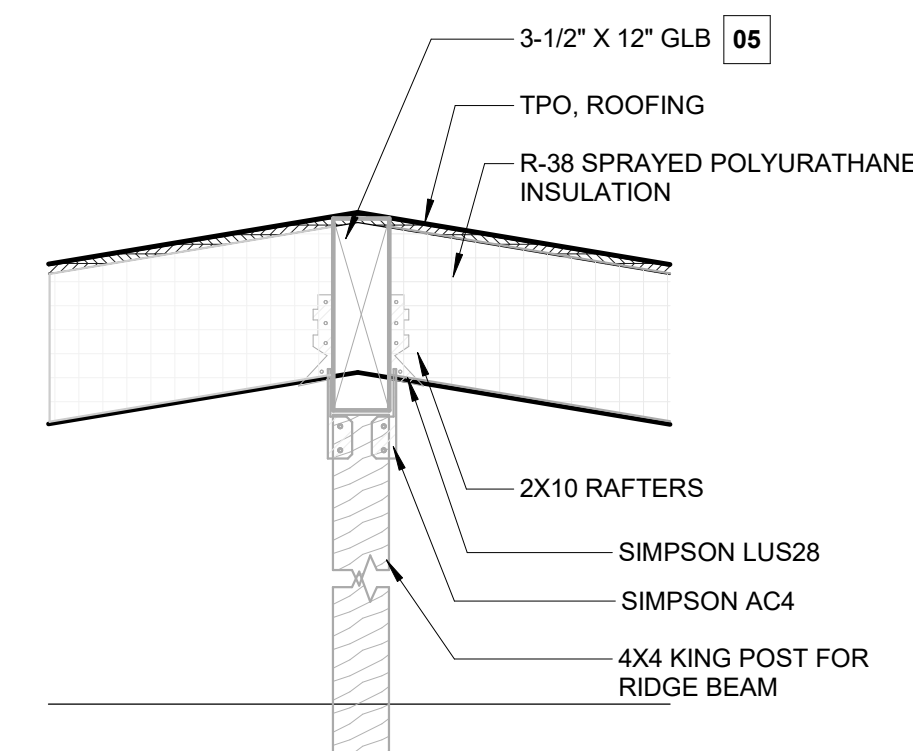
8 8" FOUNDATION, TYP.
SCALE: 1" = 1'-0"



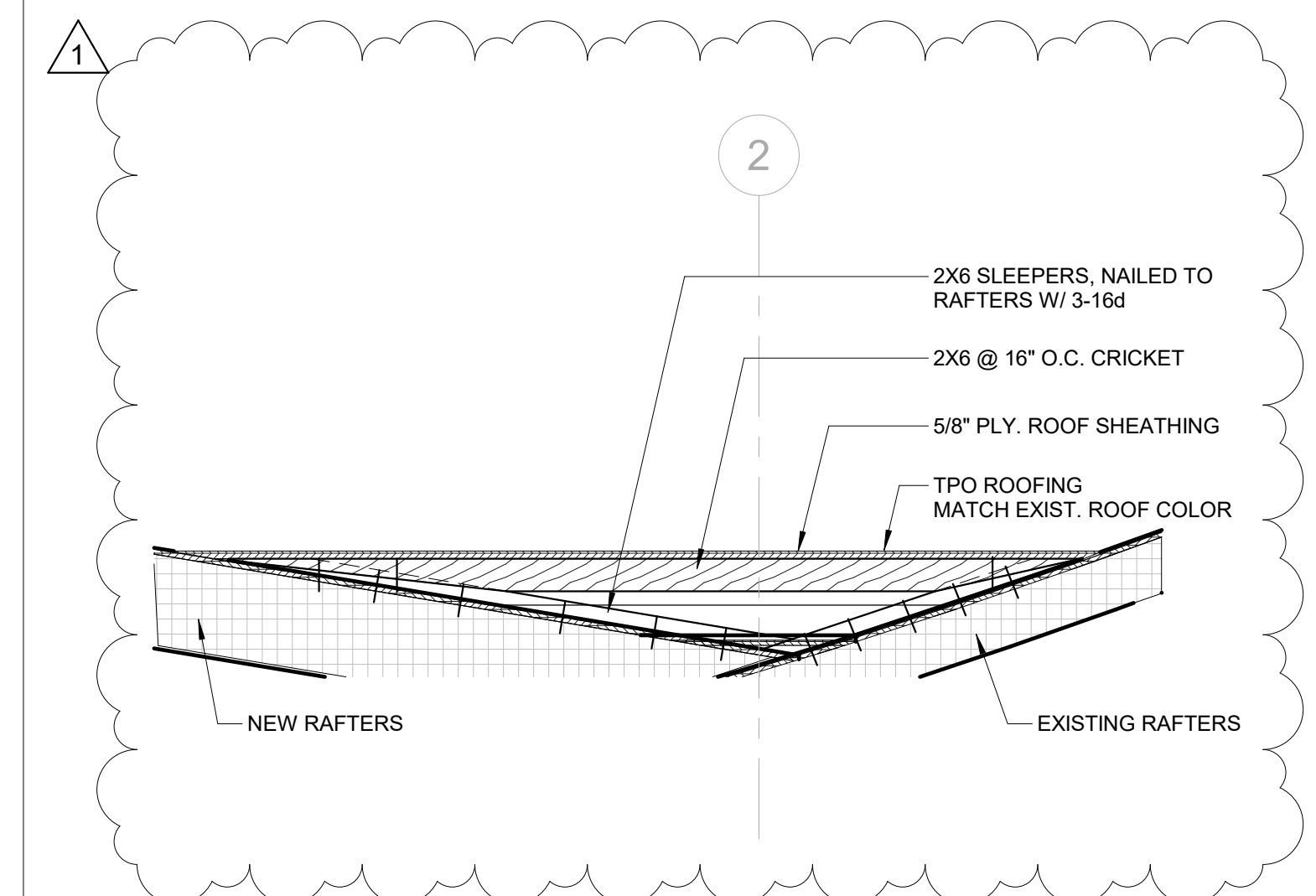
9 OVERFRAMING CONNECTION DETAILS
SCALE: 1" = 1'-0"



10 RAFTER TO EXT. WALL CONNECTION
SCALE: 1" = 1'-0"



11 RIDGE BEAM & RAFTER CONNECTION
SCALE: 1" = 1'-0"



12 CRICKET ROOF DETAILS
SCALE: 3/4" = 1'-0"



REVISIONS:

MAR 10, 2023	1

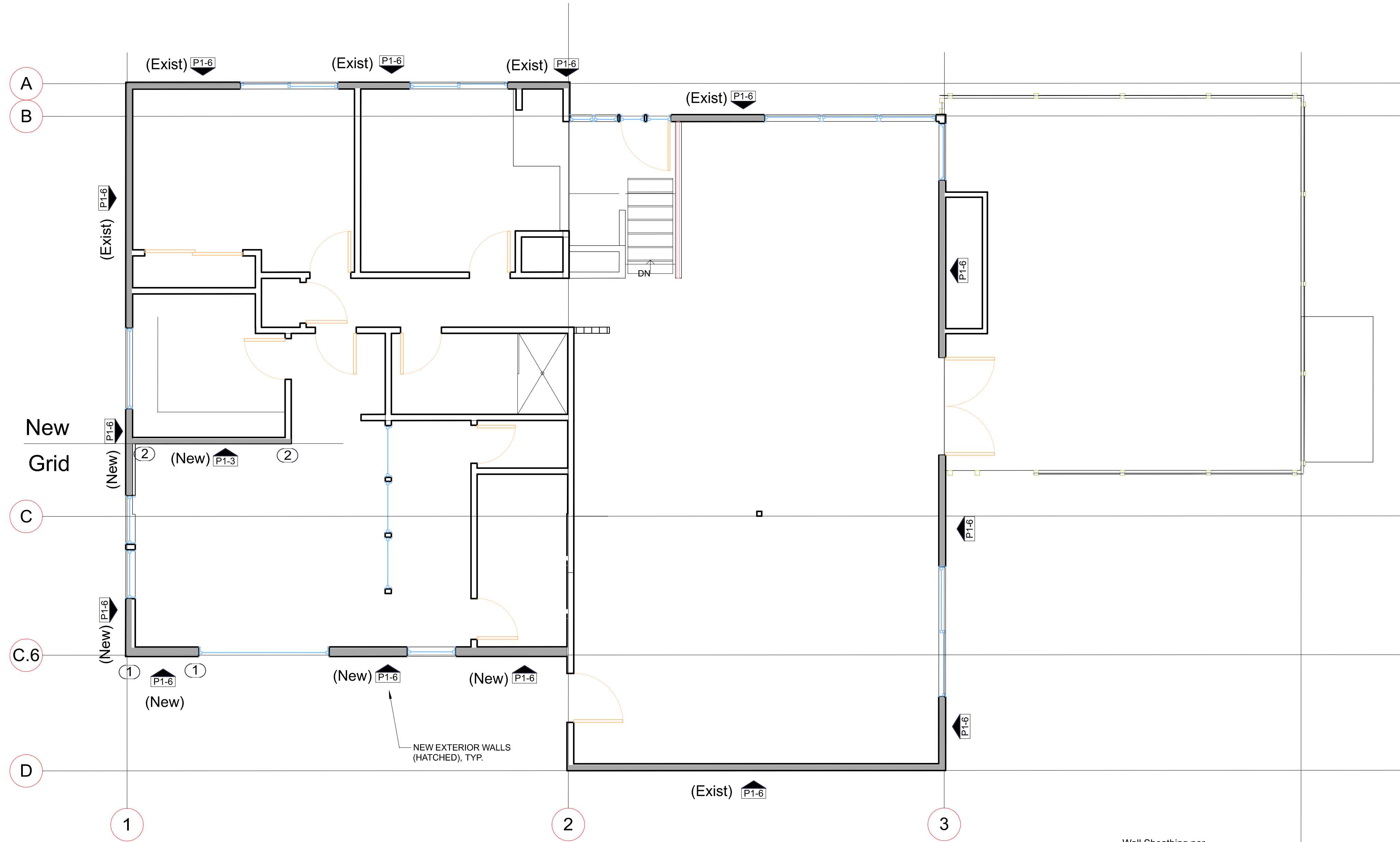
Project #: 2022-020
Date: 07/16/2022
Drawn by: Dan Garvida
Checked by: Hollenbeck

HOLDOWN SCHEDULE

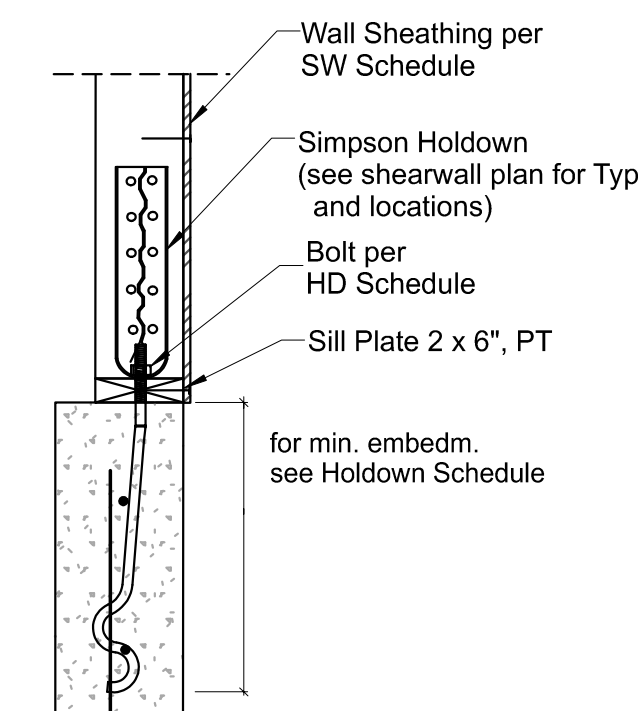
SYMBOL	HOLDOWN	EMBED.	BOLT TYPE	MIN. WOOD MEMBER THICKNESS
①	HDU2	18"	SB5/8x24	(2) 2x
②	MST48	to Post below	NA	(2) 2x

SHEAR WALL SCHEDULE - NAILING PATTERN

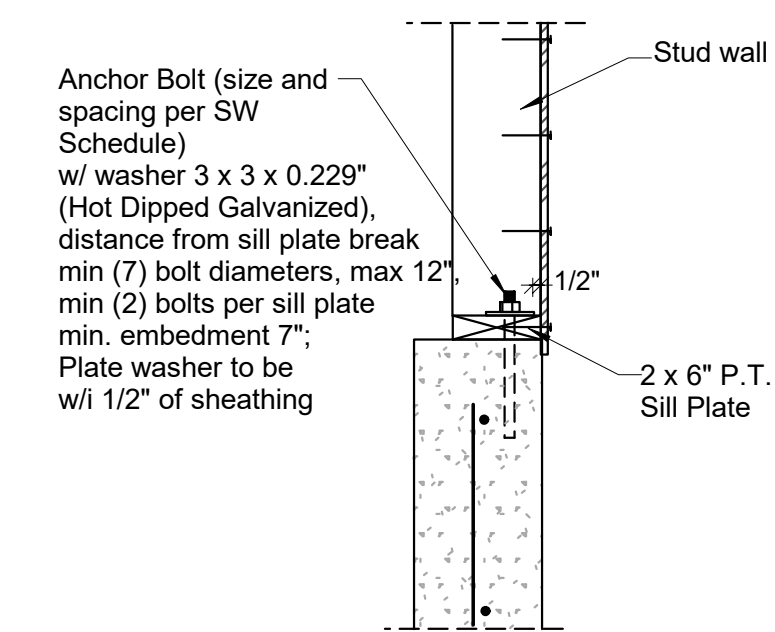
SHEARWALL TYPE	APA RATED SHEATHING THICKNESS & GRADE	SPAN INDEX	COMMON or GALVANIZED BOX NAILS	NAILING		WALL STUD GRADE &	BLKG REQ'D	BLOCK SIZE	ABUTTING PLYWOOD PANEL EDGE MEMBER SIZE	TOP PLATE NAILING SIZE & SPACING	SOLE PLATE NAILING SIZE &	FOUNDATION ANCHOR BOLTS SIZE & SPACING	ALLOWABLE LOAD SEISMIC / WIND (PLF)
				EDGE	FIELD								
P1-6	7/16" ONE FACE	24/0	8d	6" o.c.	12" o.c.	HEM-FIR @ 16" o.c.	yes	2x	2x	16d @ 5"	16d @ 5"	5/8" @ 48" o.c.	244 / 342 PLF
P1-3 ²	7/16" ONE FACE	24/0	8d	3" o.c.	12" o.c.	HEM-FIR @ 16" o.c.	yes	3x	3x	(2) ROWS 16d @ 4"	(2) ROWS 16d @ 4"	5/8" @ 36" o.c.	425 / 590 PLF



SHEAR WALL PLAN
SCALE: 1/4" = 1'-0" (1:48)



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



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

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

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

SHEAR WALL NOTES

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



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ENGINEERING

BUILDER:	Tyler & Sarah Hollenbeck	SHEET
JOB SITE:	7701 SE 39th St, Mercer Island, WA 98040	
PROJECT #:		S2
DESCRIPTION:	Alteration and Addition	
DATE:	03/08/2023 SCALE: as noted	
ENGINEER:	Roland Heimisch, P. E.	