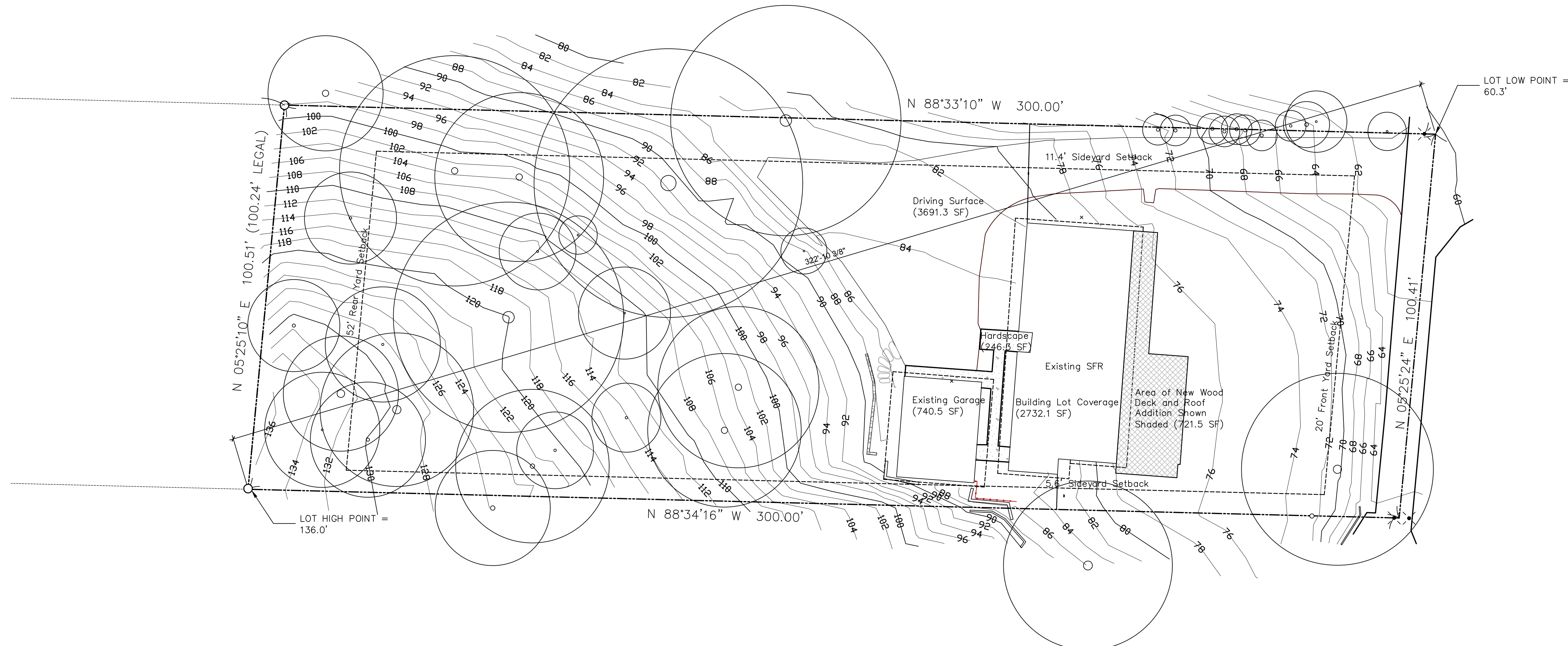


Segment	Length	Elevation	Product
A	5.1	84	428.4
B	3.4	84	285.6
C	31.1	84	2612.4
D	12.9	84	1083.6
E	4.0	83	332
F	15.1	81	1223.1
G	60.4	77	4650.8
H	27.9	79	2204.1
I	28.4	84	2385.6
J	3.6	84	302.4
Total	191.9		15508

$ABE = 15508 / 191.9 = 80.8'$

PROJECT DATA	PROPERTY DATA	CONSTRUCTION DATA
OWNER Eric and Jody Blohm	PROJECT ADDRESS 5642 E Mercer Way Mercer Island, WA 98040	SCOPE OF WORK Addition of 720.5 SF raised deck with stair to ground floor to existing Single Family Residence. New Roof Over Deck.
ARCHITECT HhLodesign 215 W. Crockett St. Seattle, WA 98119 Contact: Henry H Lo 206-229-8082	ZONING DESIGNATION R-15	LOT SLOPE High Point 136.0' Low Point 60.3' Length 322.9' Slope 23.4%
CONTRACTOR Urban Restoration Contact: Reg Willing 425-417-4811	HEIGHT LIMIT 30'-0" Max Building Height	LOT COVERAGE (23.4% Slope) Lot Area 33,451 sq ft Percent Allowable (Hardscape) 9% = 3010.6 sq ft Hardscape Proposed 246.3 sq ft
STRUCTURAL ENGINEER TBD	SETBACKS Front Yard Setback 20'-0" Rear Yard Setback 25'-0" Side Yard Setback 17'-0" Total 5.6' Min.	Percent Allowable (Buildings + Driving Surface) 35% = 11,707.9 sq ft Building Proposed 2732.1 sq ft Driving Surface Proposed 3691.3 sq ft Total Proposed 6423.4 sq ft
	LOT AREA 33,451 sq ft	
	ASSESSOR'S TAX NUMBER 192405-9152	
	LEGAL DESCRIPTION POR GL 3 BEG AT PT 2120 FT N OF S LN OF SEC & 1032.41 FT E OF N & S CL OF SEC TH N 03-58-12 E 100.24 FT TH E 300 FT TO WLY LN OF PRIVATE RDWY TH S 03-58-12 W 100.24 FT TH W 300 FT TO BEG ALSO POR GL 3 LY BET LN S 2205 FT & 2220 FT N OF S LN OF SEC & ELY OF PRIVATE RD TOW SH LDS ADJ	

LOT COVERAGE CALCULATIONS	
A. Gross Lot Area	33451 Square Feet
B. Net Lot Area	33451 Square Feet
C. Allowed Lot Coverage Area	11707.9 Square Feet
D. Allowed Lot Coverage	35 % of Lot
E. Existing Lot Coverage:	
1. Main Structure Roof Area	2732.1 Square Feet
2. Accessory Building Roof Area	740.5 Square Feet
3. Vehicular Use (driveway, paved access easements [portion used by the lot for access], parking)	3691.3 Square Feet
4. Covered Patios and Covered Decks	721.5 Square Feet
5. Total Existing Lot Coverage Area (E1+E2+E3+E4)	7885.4 Square Feet
F. (Total Lot Coverage Area Removed)	0 Square Feet
G. Proposed Adjustment for Single Story Area	0 Square Feet
H. Proposed Adjustment for Flag Lot	0 Square Feet
I. Total New Lot Coverage Area:	
1. Main Structure Roof Area	2732.1 Square Feet
2. Accessory Structure Roof Area	740.5 Square Feet
3. Vehicular Use (driveway, paved access easement [portion used by the lot for access], parking)	3691.3 Square Feet
4. Covered Patios and Covered Decks	721.5 Square Feet
5. Total New Lot Coverage Area (I1+I2+I3+I4)	7885.4 Square Feet
J. Total Project Lot Coverage Area = (E5 - F) + I5	7885.4 Square Feet
K. Proposed Lot Coverage Area = (I/J) x 100	23.6 % of Lot
	A-1.0
Lot coverage calculations shown on Plan Sheet #	
HARDSCAPE CALCULATIONS	
A. Gross Lot Area	33451 Square Feet
B. Net Lot Area	33451 Square Feet
C. Area Borrowed from Lot Coverage	3821.6 Square Feet
D. Allowed Hardscape Area = 9% of lot area + C	6832.19 % of Lot
E. Allowed Hardscape Area	6832.19 Square Feet
F. Total Existing Hardscape Area:	
1. Uncovered Decks	0 Square Feet
2. Uncovered Patios	246.3 Square Feet
3. Walkways	0 Square Feet
4. Stairs	0 Square Feet
5. Rockeries and Retaining Walls	18.5 Square Feet
6. Other	0 Square Feet
7. Total Existing Hardscape Area (F1+F2+F3+F4+F5+F6)	264.8 Square Feet
G. (Total Hardscape Area Removed)	0 Square Feet
H. Total New Hardscape Area:	
1. Uncovered Decks	0 Square Feet
2. Uncovered Patios	0 Square Feet
3. Walkways	0 Square Feet
4. Stairs	0 Square Feet
5. Rockeries and Retaining Walls	0 Square Feet
6. Other	0 Square Feet
7. Total New Hardscape Area (H1+H2+H3+H4+H5+H6)	0 Square Feet
I. Total Project Hardscape Area = (F7 - G) + H7	264.8 Square Feet
J. Total Project Hardscape Area = (I/J)x100	0.8% % of Lot



1 Site Plan
1/16" = 1'-0"



DRAWN BY
DESIGN BY
CHECKED BY
APPROVED BY
DATE
April 04, 2023
REVISIONS

**BLOHM
DECK**

5642 E Mercer Way
Mercer Island, Washington

8190
**REGISTERED
ARCHITECT**
Henry H. Lo
HENRY H. LO
STATE OF WASHINGTON

Site Plan

A-1.0

H h L o design
minimalist spatial creation

215 West Crockett Street
Seattle, Washington 98119
206.229.8082

GENERAL NOTES

GN-1 GENERAL NOTE

All work to comply with the following current codes:
- 2018 INTERNATIONAL BUILDING CODE (IBC)
- 2018 INTERNATIONAL RESIDENTIAL CODE (IRC)
- 2018 INTERNATIONAL MECHANICAL CODE
- 2018 INTERNATIONAL FIRE CODE
- 2018 INTERNATIONAL FUEL GAS CODE (Natural Gas)
- 2018 UNIFORM PLUMBING CODE
- 2018 WASHINGTON STATE ENERGY CODE
- and all other applicable local codes

GN-2 GENERAL NOTE

All applicable codes, ordinances, and minimal structural requirements take precedence over drawings, notes, and specifications.

GN-3 GENERAL NOTE

Dimensions are to face of stud unless noted otherwise.

GN-4 GENERAL NOTE

Plumbing work and Electrical work is "Design/Build" and executed under separate permit.

EARTH WORK

EW-1 VERIFY SOIL CONDITIONS

Geotechnical Engineer shall field verify conformance of actual soil conditions with design assumptions

EW-2 GEOTECHNICAL ENGINEER SITE VISITS

General contractor is responsible for scheduling site visits by Geotechnical Engineer

EW-3 BEARING DEPTH

Extend excavation down to undisturbed soil of the specified strength with a minimum depth of 18" below finish grade

EW-4 COMPACTED FILL

Compacted fill to be well graded and granular with no more than 5% passing a 200 sieve. Place in 8" loose lifts and compact to 95% modified AASHTO density at optimum moisture content.

EW-5 BACKFILL

Backfill behind all retaining walls with free draining granular fill and provide for subsurface drainage. (Subject to field review by Geotechnical Engineer)

MOISTURE PROTECTION

MP-1 (IRC R317.1)

Provide a minimum clearance of 12" between untreated beams & girders and earth

Provide a minimum clearance of 18" between untreated joists and earth

Provide a minimum of 8" clear between untreated framing members in contact concrete or masonry exterior walls and earth

All wood in contact with concrete or masonry exterior walls to be pressure treated

All sills and sleepers on concrete slab that is in direct contact with the earth to be pressure treated

All wood in direct contact with the ground or embedded in concrete shall be pressure treated

Wood siding, sheathing and framing shall have a clearance of 6" to earth and 2" from concrete steps, porch slabs, patio slabs and similar horizontal surfaces exposed to weather.

MP-2 (IRC R408) CRAWLSPACE VENTILATION

Crawlspace ground surface shall be covered with a Class 1 (0.1 per or less) vapor retarder material. Provide 1 sf of net free vent area for each 300 sf of crawlspace area. A vent shall be located within 3 feet of each corner. Vents shall be protected by 1/8" minimum, 1/4" maximum non-corrosive screen.

MP-3 (IRC R806) ROOF VENTILATION

Provide 1 sf of net free vent area for each 150 sf of attic area. Venting may be reduced to 1 sf of net free vent area for each 300 sf of attic area provided at least 50% but no more than 80% of the vent area is located in the upper portion of the roof at least 3 feet above the eave. Vents shall be protected by 1/8" minimum, 1/4" maximum non-corrosive screen or approved soffit vents. A minimum 1" clear air space shall be provided between the insulation and the roof sheathing through the roof. All rafter bays to be ventilated.

FIRE PROTECTION cont'd.

FP-9 (IRC R315.1) CARBON MONOXIDE ALARMS

For new construction, an approved carbon monoxide alarm shall be installed outside of each separate sleeping area in the immediate vicinity of the bedrooms in dwelling units within which fuel-fired appliances are installed and in dwelling units that have attached garages.

FP-10 (IRC R315.3) CARBON MONOXIDE ALARM REQUIREMENTS

Single station carbon monoxide alarms shall be listed as complying with UL 2034 and shall be installed in accordance with this code and the manufacturer's installation instructions.

FP-11 (IRC R302.11) FIREBLOCKING REQUIRED

Fire blocking is required in the following locations.

-In concealed spaces of stud walls and partitions including furred spaces, parallel rows of studs, staggered studs as follows:

Vertically at ceiling and floor levels

Horizontally at intervals not exceeding 10 feet

-At all interconnections between concealed vertical and horizontal spaces such as soffits, dropped ceilings, and coved ceilings

-In concealed spaces between stair stringers at the top and bottom of the run.

-At openings around vents, pipes, ducts, cables, and wire at ceiling and floor level

-At fireplaces & chimneys per IRC R1003.19

-Fireblocking cornices of a 2-family dwelling is required at the line of dwelling unit separation

SAFETY AND SECURITY

SS-1 (IRC R308.4) SAFETY GLAZING - HAZARDOUS LOCATIONS

Provide safety glazing in the following locations

- Glazing in swinging doors

- Glazing in fixed and sliding panels of sliding door assemblies and panels in sliding and bifold closet door assemblies

- Glazing in storm doors

- Glazing in unframed swinging doors

- Glazing in door or enclosure for hot tub, whirlpool, sauna, steam room, bathtub, and shower. Glazing in any part of the a building wall enclosing these where the the bottom edge of the glazing is less than 60" above a standing or walking surface.

- Glazing in an individual fixed or operable panel adjacent to a door where the nearest vertical edge is within a 24" arc of the door in a closed position AND whose bottom edge is less than 60" from the floor or walking surface

- Glazing that meets all of the following conditions

Exposed area of an individual pane larger than 9 sf
Bottom edge less than 18" above the floor
Top edge more than 36" above the floor
Walking surface within 36" horizontally of the glazing

-All glazing in railings (regardless of area or height)

-Glazing in walls and fences enclosing swimming pools, hot tubs, spas where the bottom edge is less than 60" above walking surface and within 60" horizontally of the water's edge.

-Glazing adjacent to stairways, landings, and ramps within 36" horizontally of a walking surface when the exposed surface of the glass is less than 60" above the the plane of the adjacent walking surface

-Glazing adjacent to stairways within 60" horizontally of the bottom tread in any direction when the exposed surface of the glass is less than 60" above the nose of the tread

(SEE CODE SECTION FOR LIMITED LIST OF EXCEPTIONS)

SS-2 (IRC R310.1.1,2,3,4) EMERGENCY ESCAPE (EGRESS)

Emergency escape opening shall have a minimum net clear opening of 5.7 sf
Grade floor openings shall have a minimum net clear opening of 5.0 sf

- Emergency escape opening shall have a minimum net clear opening height of 24"
- Emergency escape opening shall have a minimum net clear opening width of 20"
- Emergency escape opening shall have a maximum sill height of 44"

SS-3 (IRC R311.2) EXIT DOOR

Not less than one exit door shall be provided.

Minimum size of 3'-0" x 6'-8"

SS-4 (IRC R311.7) STAIRWAYS

WIDTH

Stairway width shall be no less than 36" in clear width above the handrail height and below the required headroom height, handrails may project no more than 4.5" on either side of the stairway

HEADROOM

The minimum headroom of all parts of the stairway shall be no less than 6'-8" measured vertically from the sloped plane adjoining the tread nosings

RISER HEIGHT

The maximum riser height is 7-3/4"

The maximum discrepancy between tallest & shortest risers shall not exceed 3/8"

TREAD DEPTH

The minimum tread depth is 10" measured from nosing projection to nosing projection

The maximum discrepancy between widest & narrowest treads shall not exceed 3/8"

NOSING

Provide a nosing not less than 3/4" but not more than 1-1/4" wide on stairways with solid risers.

HANDRAIL

A continuous handrail is required on at least one side of each continuous run of treads or flight with 4 or more risers

HANDRAIL HEIGHT

Not less than 34" or more than 38" above the sloped plan adjoining the tread nosings

HANDRAIL CONTINUITY

Handrail shall be continuous for the full length of the flight from a point directly above the top riser to a point directly above the bottom riser. Handrails shall be returned to the wall or terminate in a newel post or safety terminus.

HANDRAIL SPACE

There shall be a space of no less than 1-1/2" between handrail and adjacent wall surface.

HANDRAIL GRIP SIZE

Handrails with a circular cross section shall have an outside diameter of at least 1-1/4" and no more than 2". If the handrail is not circular it shall have a perimeter dimension of at least 4" and not more than 6-1/4" with a maximum cross section dimension of 2-1/4"
(See code for additional options)

SS-5 (IRC R312) GUARDS

Porches, balconies, ramps, and raised floor surfaces more than 30" above the floor or grade below shall have a guard not less than 36" in height.

Open side of stairs with a total rise of 30" or more shall have guards a minimum height of 34" above nosings. Guards shall have intermediate rails or balusters spaced so as not to allow the passing of a 4" diameter sphere. Contractor shall verify to inspector that all guards and railings shall be capable of resisting 200 lb. load on top rail acting in any direction as required by IRC Table R301.5.

BATHROOM NOTES

BN-1 (2018 IRC 307.1) SPACE REQUIREMENTS

Toilet - Minimum 15" clear each side, Minimum 21" clear in front of bowl

Vanity - Minimum 21" clear in front

Shower - Minimum 30" x 30", 24" clear in front of opening

BN-2 (2018 IRC 307.2) TUB & SHOWER WALLS

Bathtub and shower floors and walls above bathtubs with shower heads shall be finished with a non-absorbent surface to a height of at least 6 feet above the floor.

ENERGY CODE

EC-1 CODE

All work to comply with 2018 WSEC

EC-2 (2018 R402) BUILDING ENVELOPE REQUIREMENTS

Climate Zone 4C - King County

Compliance Path: Mandatory plus Prescriptive

Table 402.1.1

Glazing U-Factor (Vertical):	0.30
Glazing U-Factor (Overhead):	0.50
Door U-Factor:	0.20

Entire Slab:

Below grade walls (interior):	R-10
Below grade walls (exterior):	10/15/21 int + TB

Above grade walls:	R-21
--------------------	------

Floor Insulation:	R-30
-------------------	------

Ceilings:	R-49
or R-38 adv	

Vaulted Ceilings:	R-38
-------------------	------

See Table 402.1.1 for footnotes

EC-3 (2018 R406) ADDITIONAL ENERGY EFFICIENCY REQUIREMENTS

Dwelling units shall comply with all provisions of WSEC Chapter 4 and shall comply with sufficient options from Table R406.2 so as to achieve the at least the minimum number of Energy Credits as required (WSEC R406.2).

EC-4 (2018 R402.2.4) ACCESS HATCHES & DOORS

Access hatches from conditioned spaces to crawlspaces and attics shall be weatherstripped and insulated to a level equivalent to the surrounding surfaces

EC-5 (2018 R303.1.3) FENESTRATION (DOOR & WINDOW) U-FACTOR LABELS

All products shall be identified with NFRC labels indicating U-value, SHGC (or VT).

EC-6 (2018 402.4.1.1) AIR BARRIER

A continuous air barrier shall be installed in the building envelope. Breaks or joints in the barrier shall be sealed. Air-permeable insulation shall not be used as a sealing material.

EC-7 GROUND COVER

A ground cover of 6 mil black polyethylene, Class 1 (0.1 per or less), vapor retarder material shall be installed over the ground in crawlspaces. Joints should be lapped 12" and the ground cover should extend to the foundation walls. Ground cover can be omitted if crawlspaces have a concrete slab with a minimum thickness of 3-1/2"

EC-8 (2018 R402.4.3) AIR LEAKAGE OF FENESTRATION

Exterior doors and windows shall be constructed to limit air leakage and be fitted with weatherstripping. Joints around door and window frames, openings between walls and foundations, between walls and roof, and any other penetrations shall be sealed, caulked, gasketed, or weatherstripped to prevent air leakage. Windows, skylights and sliding glass doors shall have an air infiltration rate of not more than 0.3 cfm per square foot, and swinging doors no more than 0.5 cfm per square foot, and be listed and labeled by the manufacturer

EC-9 (2018 R402.4.4) RECESSED LIGHTING

Recessed light cans installed in the building envelope shall be Type IC rated and certified under ASTM 283 to have no more than 2.0 cfm air movement into the unconditioned cavity. They shall be installed with a gasket or caulk between the frame and the ceiling to prevent air leakage

EC-10 (2018 503.4) EQUIPMENT PERFORMANCE

All heating equipment shall meet the requirements of the National Appliance Energy Conservation Act and be so labeled and comply with Section 1411.

EC-11 (2018 R403.5) MECHANICAL VENTILATION

Mechanical ventilation system fans shall meet the efficacy requirements of Table R403.5.1

EC-12 (2018 R403.1) CONTROLS

Provide a programmable thermostat for regulation of temperature. Thermostat shall allow for a 5-2 programmable schedule (weekdays/weekends) and be capable of providing at least two programmable setback periods per day.

EC-13 (2018 R403.2) DUCTS

Ducts within or partial exposed to unconditioned spaces shall be insulated to a minimum of R-8 (WSEC R403.2.1). Framing cavities shall not be used as ducts or plenums. Installation of ducts in exterior walls shall not displace required envelope insulation (WSEC R403.2.3)

EC-14 (2018 R403.2.2) SEALING OF MECHANICAL SYSTEM

Ducts, air handlers, and filter boxes shall be sealed. Ducts shall be leak tested in accordance with the provisions of 2012 WSEC R403.2.2

EC-15 (2018 R403.2.2) DUCT LEAKAGE TEST

Duct leakage test results shall be provided to the building inspector and homeowner prior to an approved final inspection. A signed affidavit documenting the duct leakage test results shall be provided to the building inspector prior to an approved final inspection.

EC-16 (2018 R403.3) MECHANICAL SYSTEM PIPING

Mechanical system piping capable of carrying fluids above 105 deg. F shall be insulated to a minimum of R-6.

EC-17 (2018 R40.3.4.2) HOT WATER PIPE INSULATION

Insulation for hot water pipes shall have a minimum thermal resistance of R-4.

EC-18 (2018 R403.4.3) ELECTRIC WATER HEATER INSULATION

Electric water heaters in unconditioned space or on concrete floors shall be placed on an incompressible insulated surface with a minimum R-10.

EC-19 (2018 R404.1) LIGHTING EQUIPMENT

A minimum of 75 percent of permanently installed lamps in lighting fixtures shall be high efficacy lamps.

EC-20 (2018 402.4.1.2) AIR LEAKAGE TESTING

The building or dwelling shall be tested and verified to have an air leakage rate not exceeding 5 air changes per hour. Testing shall be conducted with a blower door at a pressure of 0.2 inches w.g. Where required by the building official testing shall be conducted by an approved third party. Testing shall be performed any time after creation of all penetrations in the building thermal envelope. The test results shall be posted on the Residential Energy Compliance Certificate.

EC-21 (2018 401.3) ENERGY COMPLIANCE CERTIFICATE

A Residential Energy Compliance Certificate complying with SEC 105.4 is required to be completed by the design professional or builder and permanently posted within 3'-0" of the electrical panel prior to inspection.

EXHAUST SYSTEMS CODE

VC-1 CODE

All work to comply with International Residential Code (IRC), Chapter 15, Exhaust Systems

VC-2 (IRC Section M1507) MECHANICAL VENTILATION

Source Specific Exhaust Fans

- Exhaust fans providing source specific ventilation shall have a minimum fan flow rating not less than 50 cfm at 0.25 inches water gauge for bathrooms, laundries, or similar rooms and 100 cfm at 0.25 inches water gauge for kitchens.

- Source specific ventilation systems shall be controlled by manual switches, dehumidistats, timers, or other approved means.

- Source specific ventilation ducts shall terminate outside the building. Exhaust ducts shall be equipped with backdraft dampers. All ducts in unconditioned spaces shall be insulated to a minimum of R-8.

VC-3 (IRC Section M1507.3) WHOLE HOUSE VENTILATION

Intermittent Whole House Ventilation Integrated with a Forced-Air System

- Integrated whole house ventilation systems shall provide outdoor air at the rate calculated using Section M1507.3.3.4

- Integrated forced-air ventilation systems shall distribute outdoor air to each habitable room through the forced-air system ducts.

- Integrated forced-air ventilation systems shall have an outdoor air inlet duct connecting a terminal element on the outside of the building to the return air plenum of the forced air system at a point within 4 feet upstream of the air handler.

- The outdoor air inlet duct connection to the return air stream shall be located upstream of the forced-air system blower and shall not be connected directly into a furnace cabinet to prevent thermal shock to the heat exchanger.

- The system shall be equipped with a motorized damper connected to the automatic ventilation control as specified in Section M1508.5.2. The required flow rate shall be verified by field testing with a flow hood or a flow measuring station. Controls

- The whole house ventilation system shall be controlled by a 24-hour clock timer with the capability of continuous operation, manual and automatic control. At the time of final inspection the automatic control timer shall be set to operate the whole house system for at least 8 hours a day. A label shall be affixed to the control that reads "WHOLE HOUSE VENTILATION - See operating instructions"

MECHANICAL WORK

MW-1 (IRC M1307.2) WATER HEATER ANCHORAGE

Water heater shall be strapped at points within the upper 1/3 and lower 1/3 of the appliance. Strapping shall be a minimum of 4" above the controls.

MW-2 (IRC M1307.3) ELEVATION OF IGNITION SOURCE

Appliances having an ignition source shall be elevated such that the source of the ignition is not less than 18" above the floor.

MW-3 (IRC M1307.3.1) PROTECTION FROM IMPACT

Appliances located in the garage shall be protected from impact by approved barriers.

FIRE PROTECTION

FP-1 (IRC R302.6) SEPARATION REQUIRED

The garage shall be separated from the residence and its attic by not less than 1/2" thick GWB on the garage side. Garages beneath habitable rooms above by not less than 5/8" thick GWB Type X. Where the separation is a ceiling-floor assembly the structure supporting the assembly shall also be protected by not less than 1/2" thick GWB.

FP-2 (IRC R302.5) OPENING PROTECTION

Openings between garage and residence shall be protected by either

- Solid wood door not less than 1 3/8" thick, or

- Solid or honeycomb metal door not less than 1 3/8" thick, or

- 20-minute fire rated door

FP-3 (IRC R302.5.2) DUCT PENETRATION

Ducts in the garage and ducts penetrating the walls or ceiling separating the dwelling from the garage shall be a minimum of 26 gauge sheet metal and have no openings into the garage.

FP-4 (IRC R302.7) UNDER-STAIR PROTECTION

Enclosed accessible space under stairs shall have walls and under-stair-surfaces protected on the enclosed side by not less than 1/2" thick GWB.

FP-5 (IRC R314.1) SMOKE DETECTION AND NOTIFICATION

All smoke alarms shall be listed in accordance with UL 217 and installed in accordance with the provisions of the IRC and the household fire warning equipment provisions of NFPA 72.

FP-6 (IRC R314.3) SMOKE DETECTION LOCATION

Smoke alarms shall be installed in the following locations

-in each sleeping room

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

-On each additional story of the building including basements and habitable attics

When more than one smoke alarm is required to be installed within an individual dwelling unit, the alarm devices shall be interconnected in such a manner that the actuation of one alarm will activate all of the alarms in the individual unit.

FP-7 (IRC R314.3.1) SMOKE ALARMS - ALTERATIONS, REPAIRS AND ADDITIONS

When alterations, repairs or additions requiring a permit occur, or when one or more sleeping rooms are added or created in existing dwellings, the individual dwelling unit shall be equipped with smoke alarms located as required for new dwellings.

FP-8 (IRC R314.4) SMOKE ALARM POWER SOURCE

Smoke alarms shall receive their primary power from the building and have battery backup. Wiring shall be permanent and without disconnecting switch other than those required for overcurrent protection

Permit Conditions:

- Provide a residential Fire Sprinkler TI Permit for the modification, addition, or subtraction of the fire sprinkler system. A licensed fire sprinkler contractor must evaluate the current system and provide a letter stating the changes needed and if the current system has capacity.
- Provide annual test records showing the system has been recently tested within the last 365 days.
- Fire Sprinkler System activation must activate internal sounders or smoke alarms.



215 West Crockett Street
Seattle, Washington 98119
206.229.8082

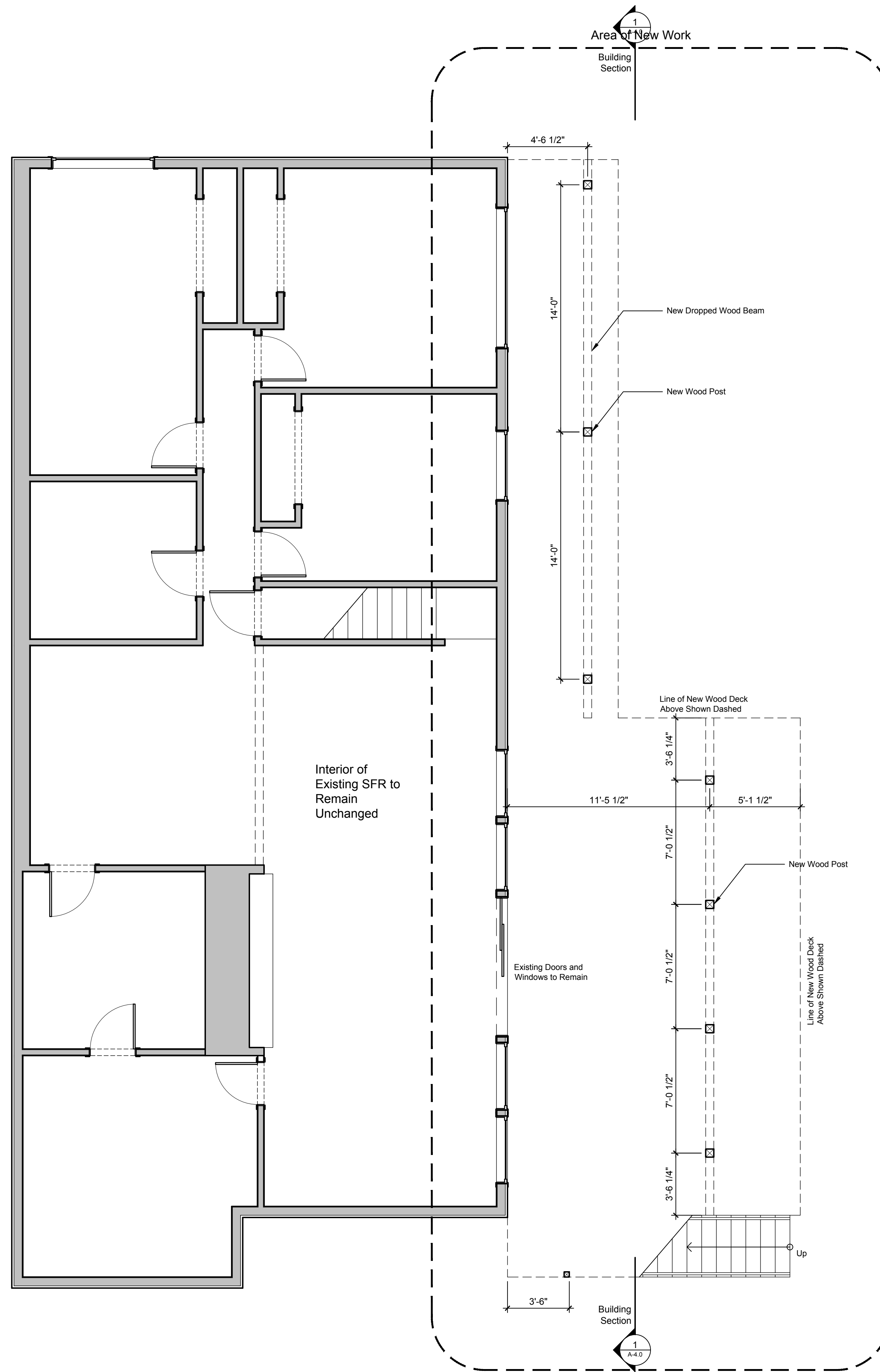
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DESIGN BY

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215 West Crockett Street
Seattle, Washington 98119
206.229.8082



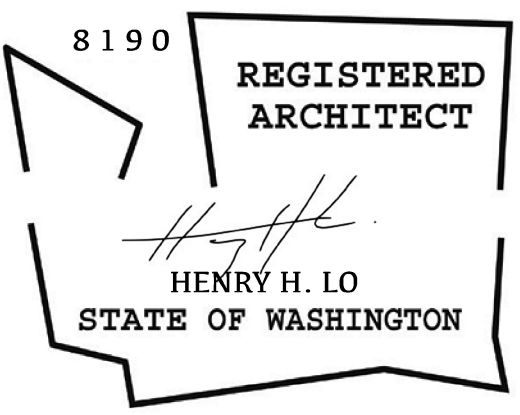
1 Lower Floor Plan
1/4" = 1'-0"



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DATE
April 04, 2023
REVISIONS

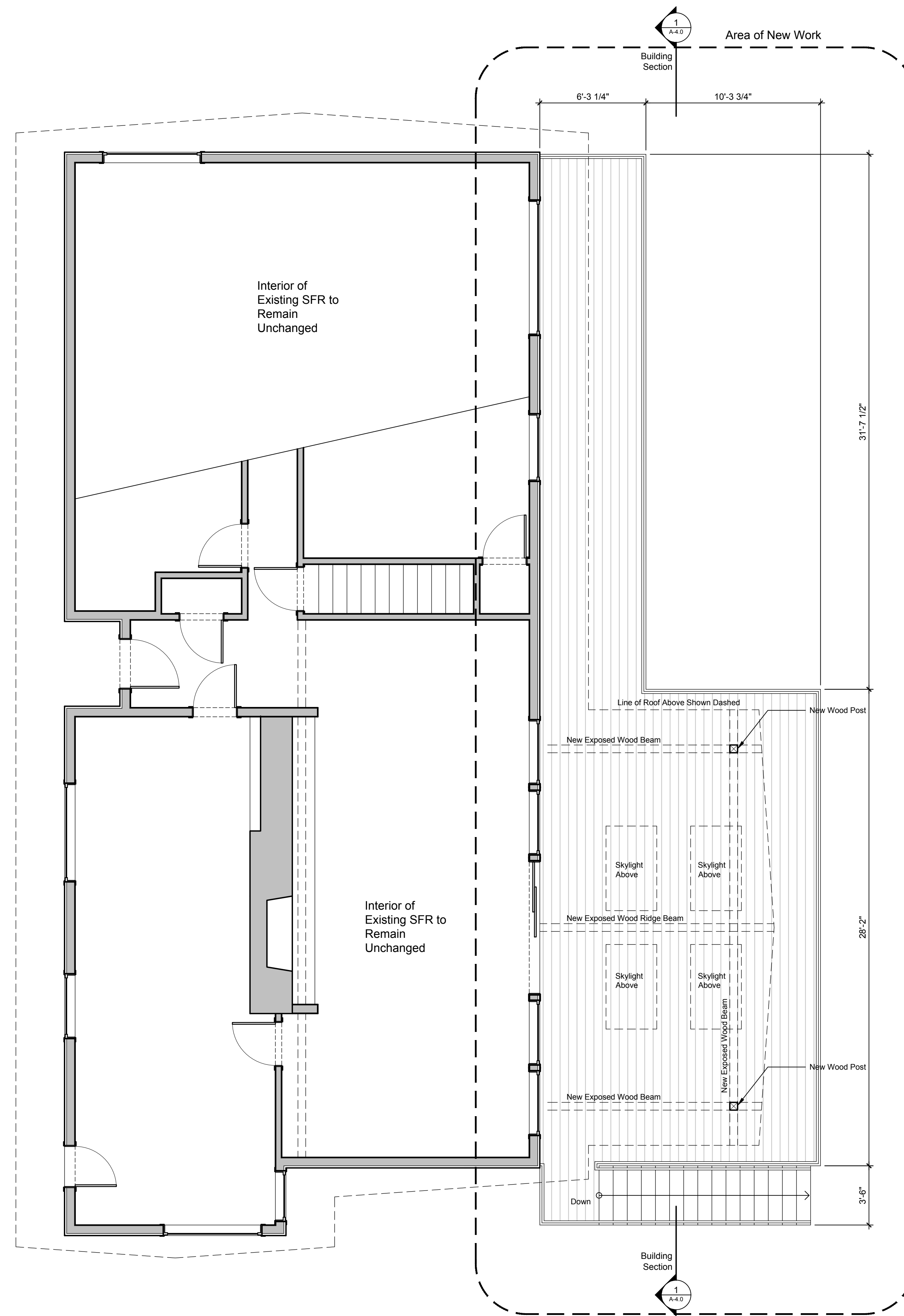
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DECK**

5642 E Mercer Way
Mercer Island, Washington



Lower Floor Plan

A-2.0



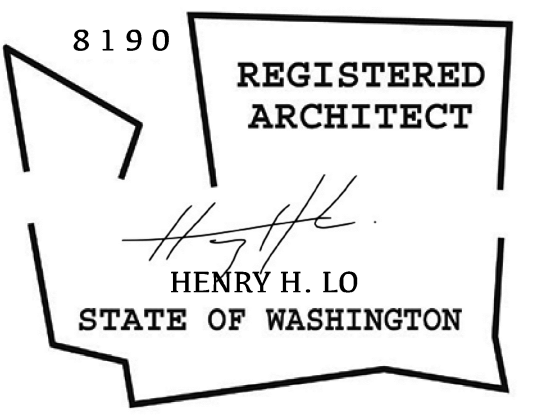
1 Main Floor Plan
1/4" = 1'-0"



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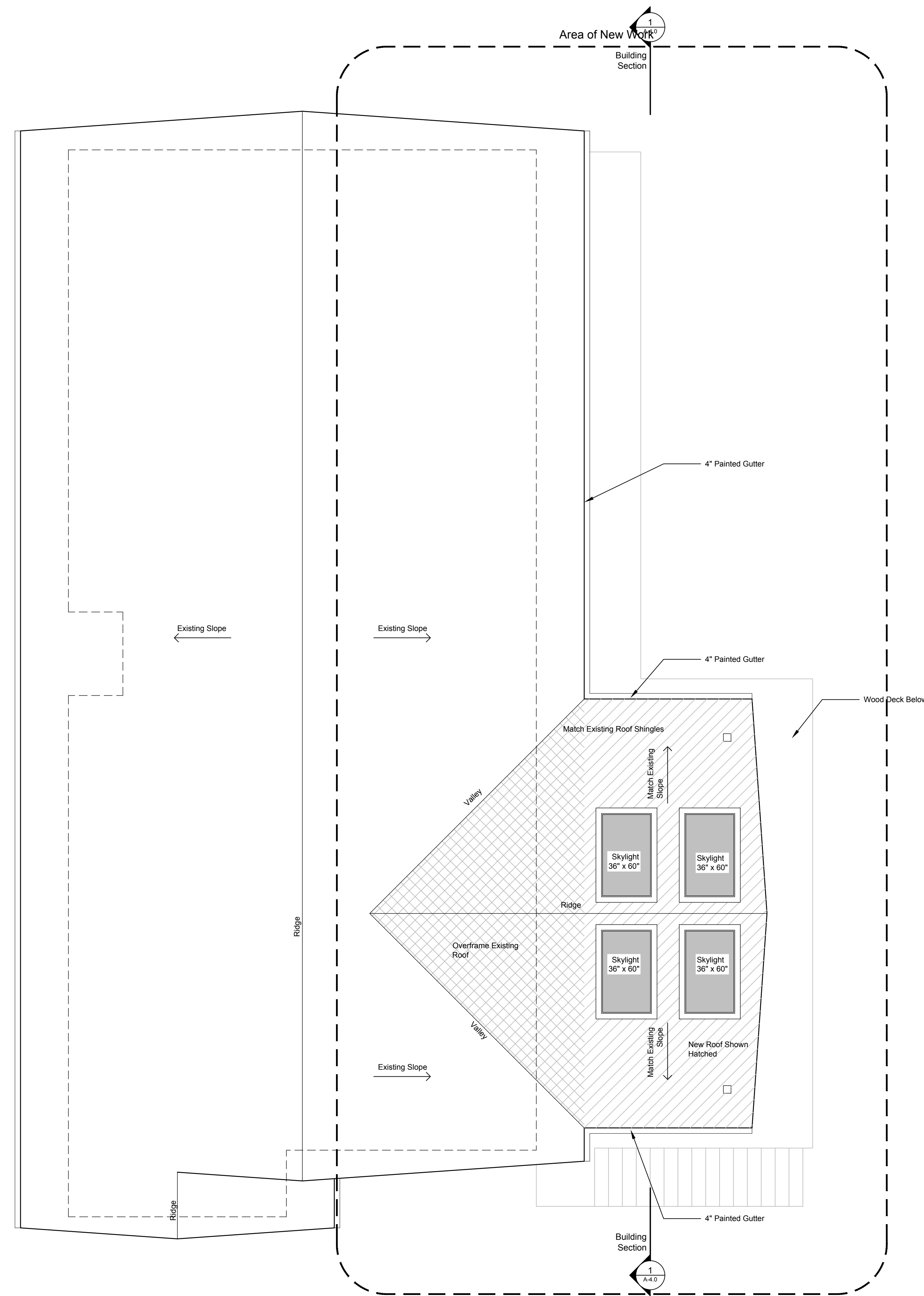
**BLOHM
DECK**

5642 E Mercer Way
Mercer Island, Washington



Main Floor Plan

A-2.1



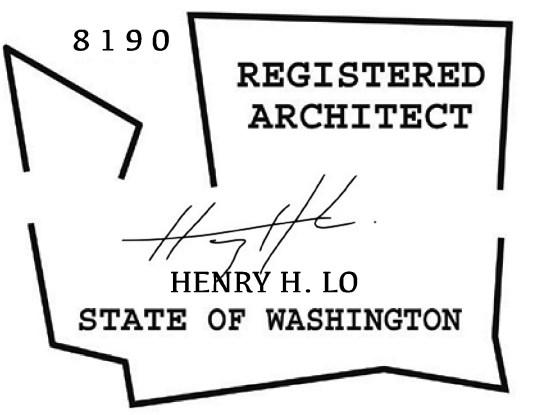
1 Roof Plan
1/4" = 1'-0"



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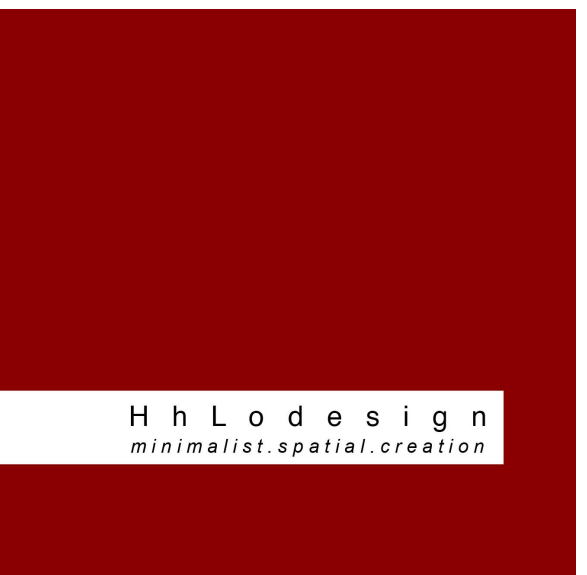
**BLOHM
DECK**

5642 E Mercer Way
Mercer Island, Washington

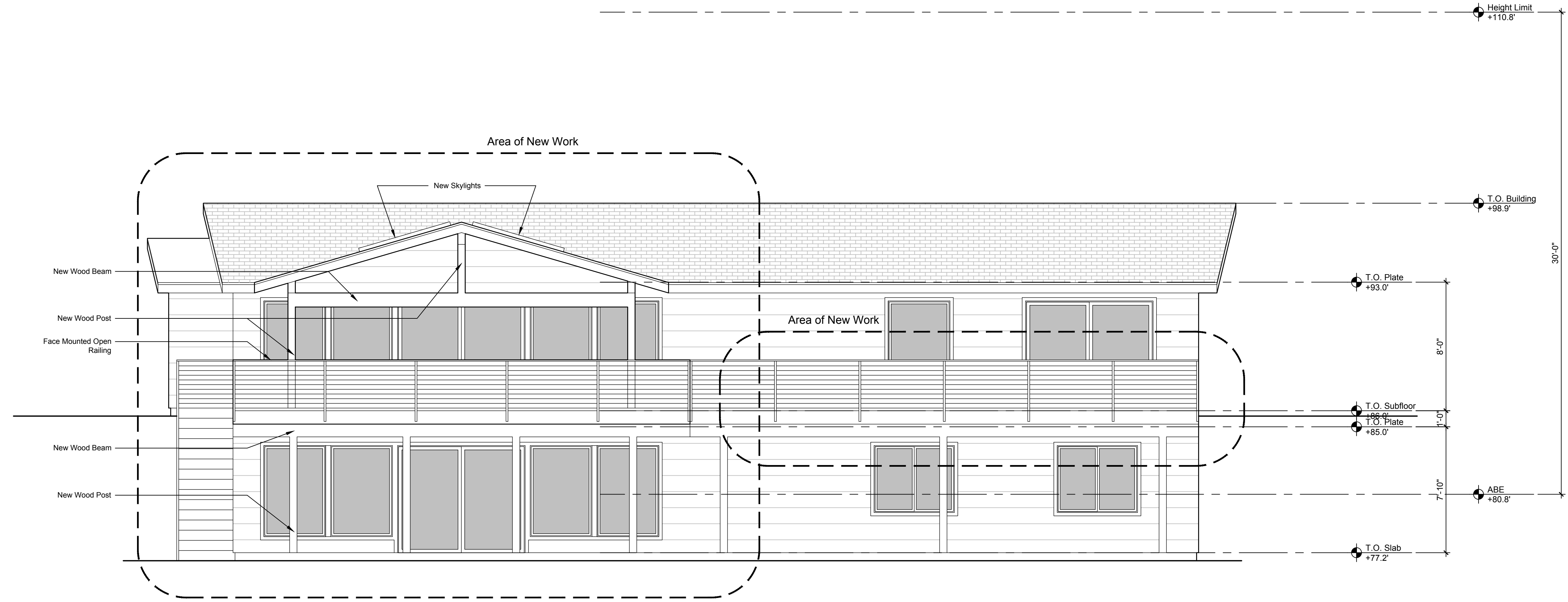


Roof Plan

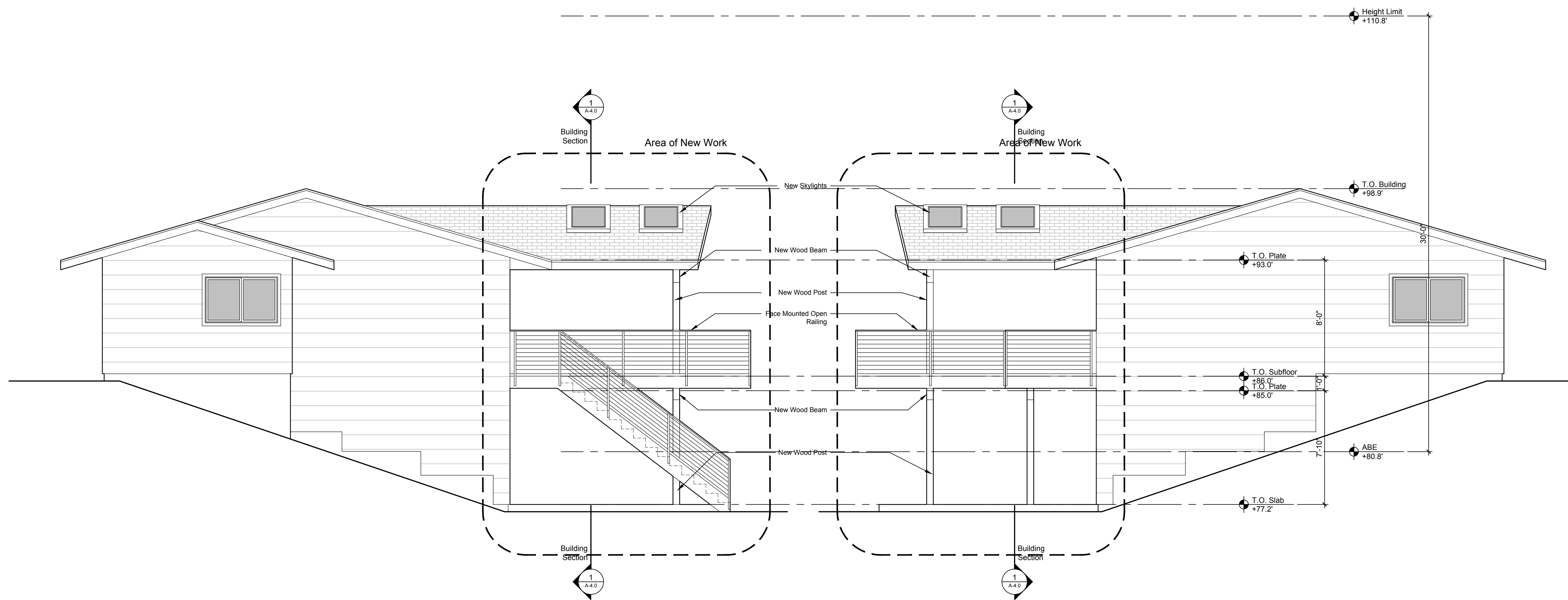
A-2.2



215 West Crockett Street
Seattle, Washington 98119
206.229.8082



1 East Elevation
1/4" = 1'-0"



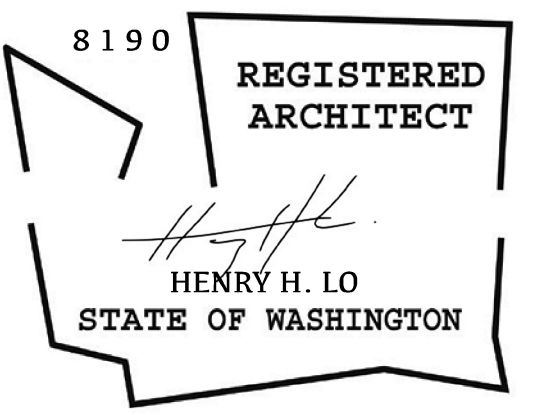
2 South Elevation
1/4" = 1'-0"

3 North Elevation
1/4" = 1'-0"

DRAWN BY
DESIGN BY
CHECKED BY
APPROVED BY
DATE
April 04, 2023
REVISIONS

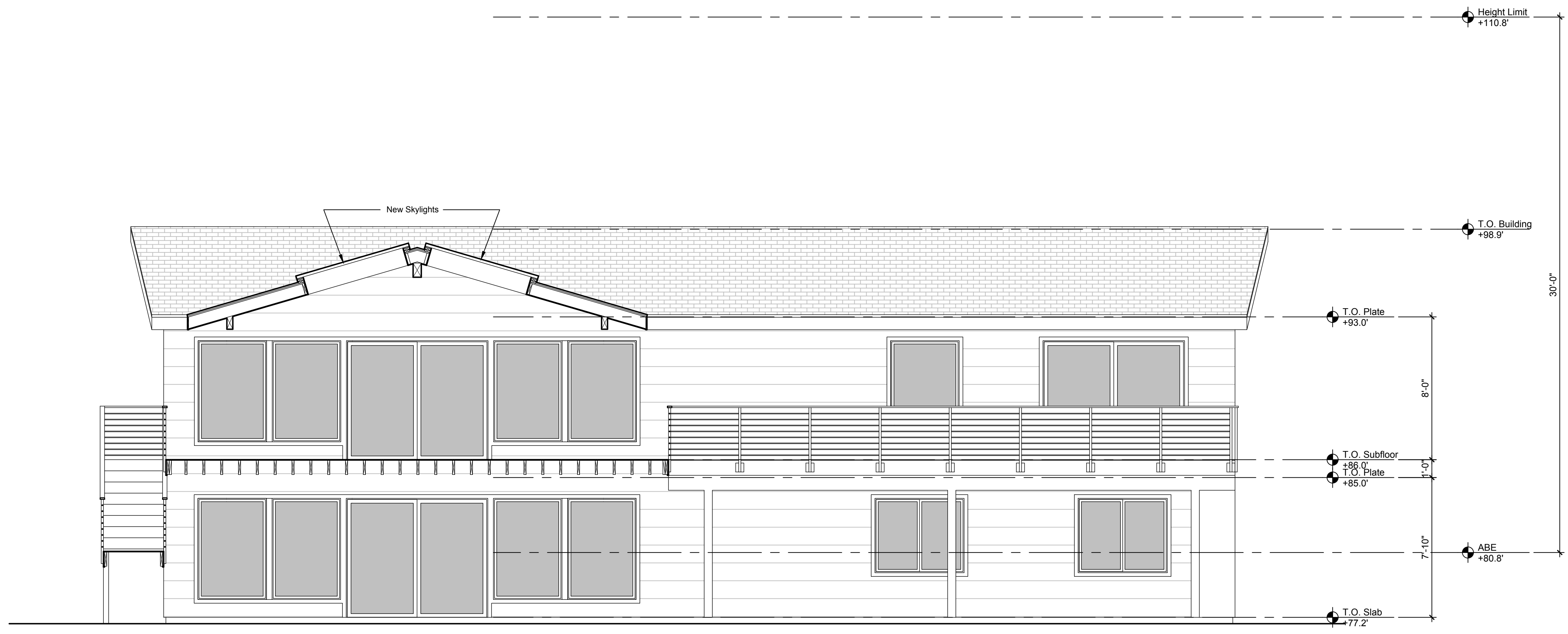
**BLOHM
DECK**

5642 E Mercer Way
Mercer Island, Washington



Exterior Elevations

A-3.0



1 Building Section
1/4" = 1'-0"

DRAWN BY
DESIGN BY
CHECKED BY
APPROVED BY
DATE
April 04, 2023
REVISIONS

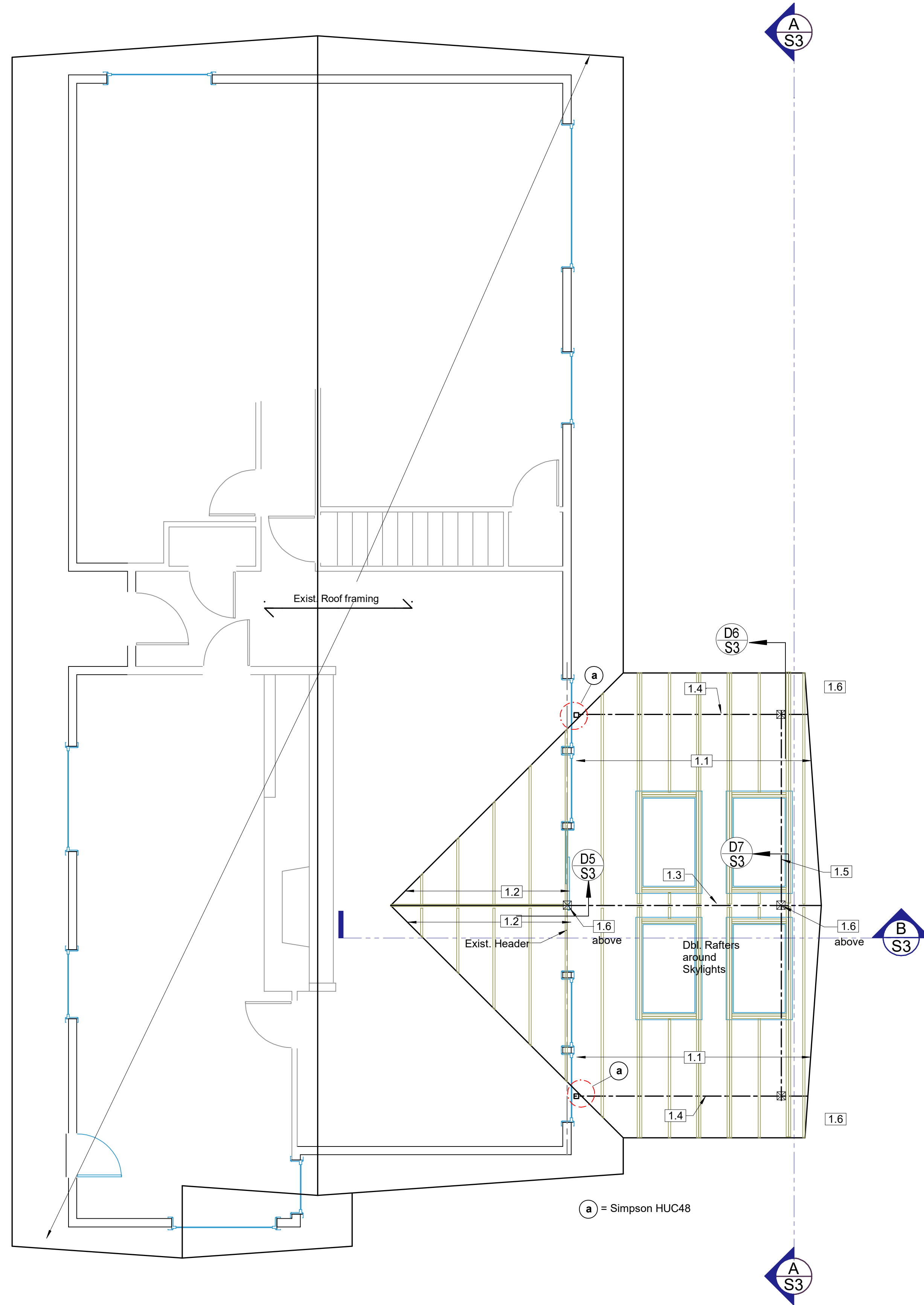
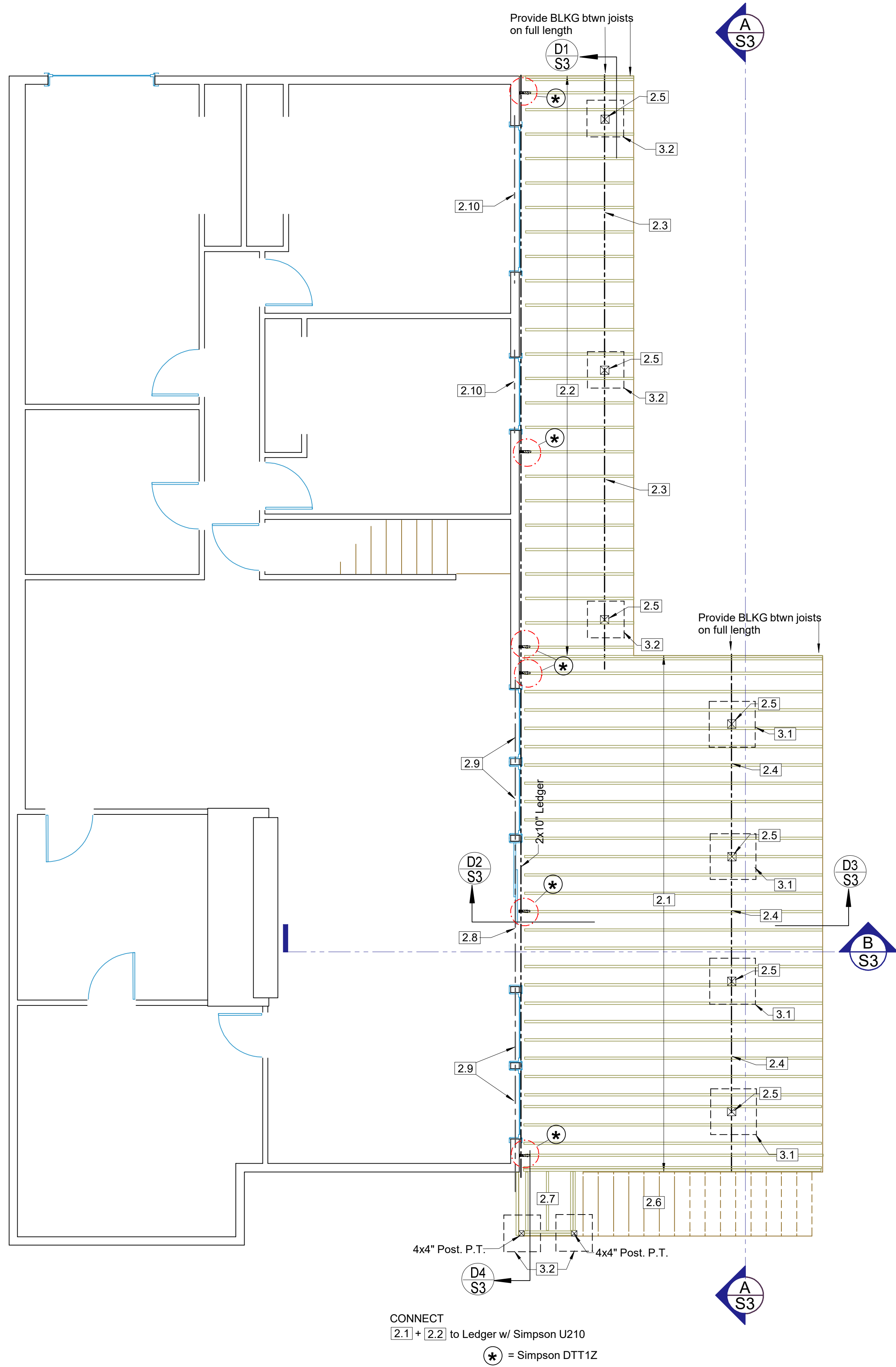
BLOHM
DECK

5642 E Mercer Way
Mercer Island, Washington



Building Section

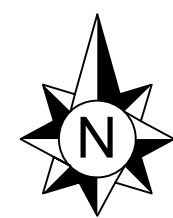
A-4.0



KEY NO.	ROOF LEVEL
1.1	Rafters, HF No.2, 2x8" @ 24" o.c.
1.2	Overframing, HF No.2, 2x6" @ 24" o.c.
1.3	Ridge Beam, DF No.2, 6x10"
1.4	Beam, DF No. 2, 4x8"
1.5	Glulam WS, 24F-1.8E, 5-1/2x10-1/2"
1.6	Post, HF No.2, 6x6", P.T.

KEY NO.	DECK
2.1	Deck Joists, HF No.2, 2x10" @ 12" o.c.
2.2	Deck Joists, HF Mo.2, 2x10" @ 16" o.c.
2.3	Beam, HF No.2, 6x12", P.T.
2.4	Beam, HF No.2, 6x12", P.T.
2.5	Post, HF No.2, 6x6", P.T.
2.6	Stair Stringers, HF No.2, 2x12" @ 12" o.c., P.T.
2.7	Landing Joists, HF No.2, 2x6" @ 16" o.c., P.T.
2.8	Exist. Header, verify min. LSL, 1.55E, 2325Fb, 3-1/2x9-1/4"
2.9	Exist. Header, DF No.2, verify min. 4x8"
2.10	Exist. Header, DF No.2, verify min. 4x6"

KEY NO.	FOUNDATION
3.1	Spread Footing, fc = 2,500 psi, 30x30x8"
3.2	Spread Footing, fc = 2,500 psi, 24x24x8"



DECK FRAMING AND FOUNDATION PLAN SCALE: 1/4" = 1'-0" (1:48)



DECK COVER FRAMING PLAN SCALE: 1/4" = 1'-0" (1:48)

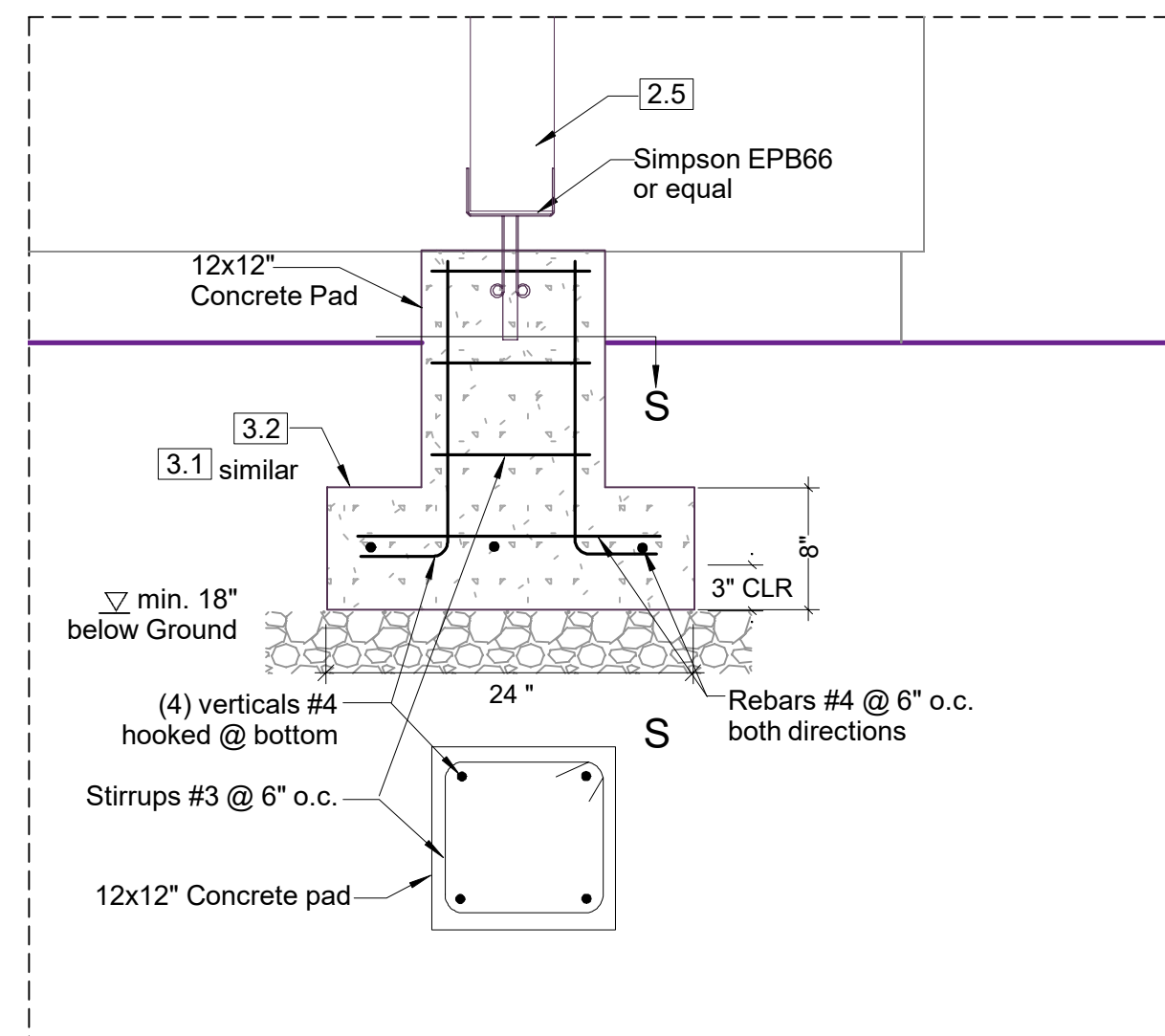
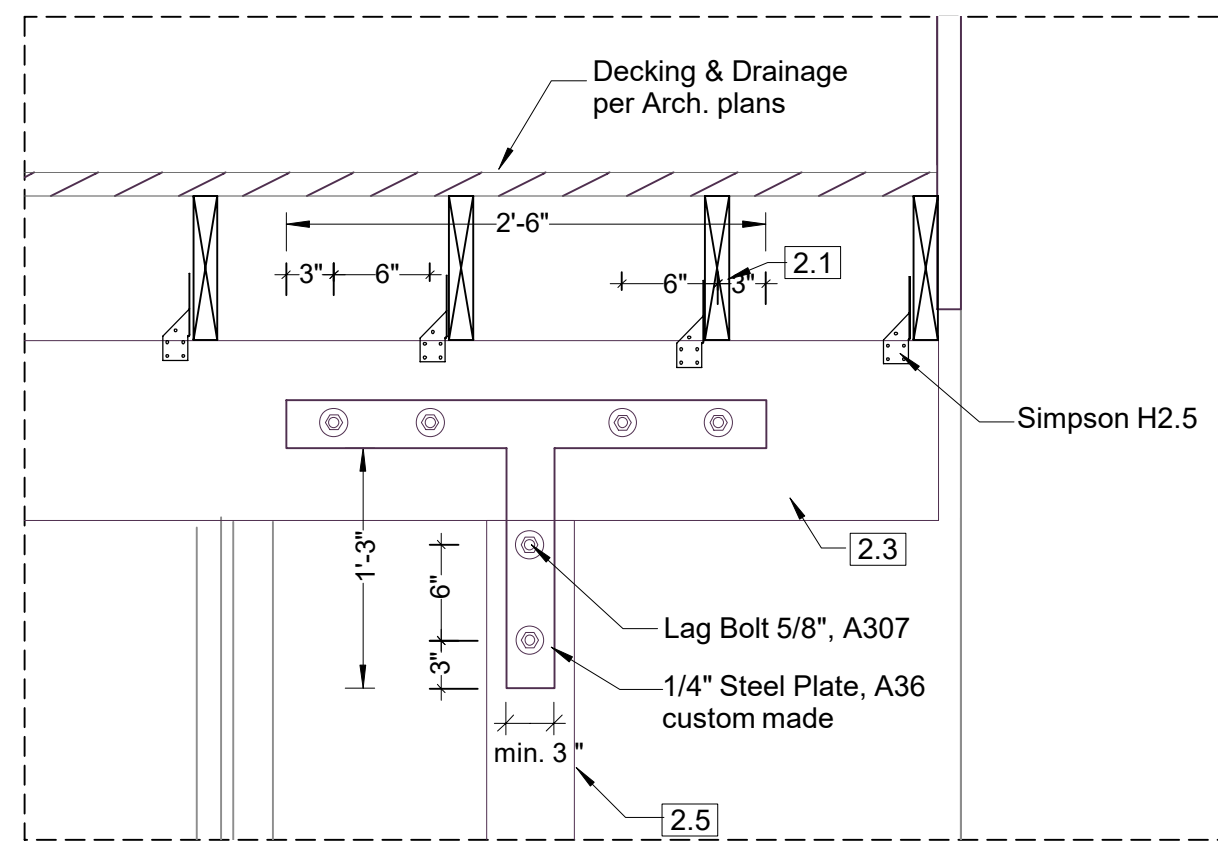


tec instruct LLC

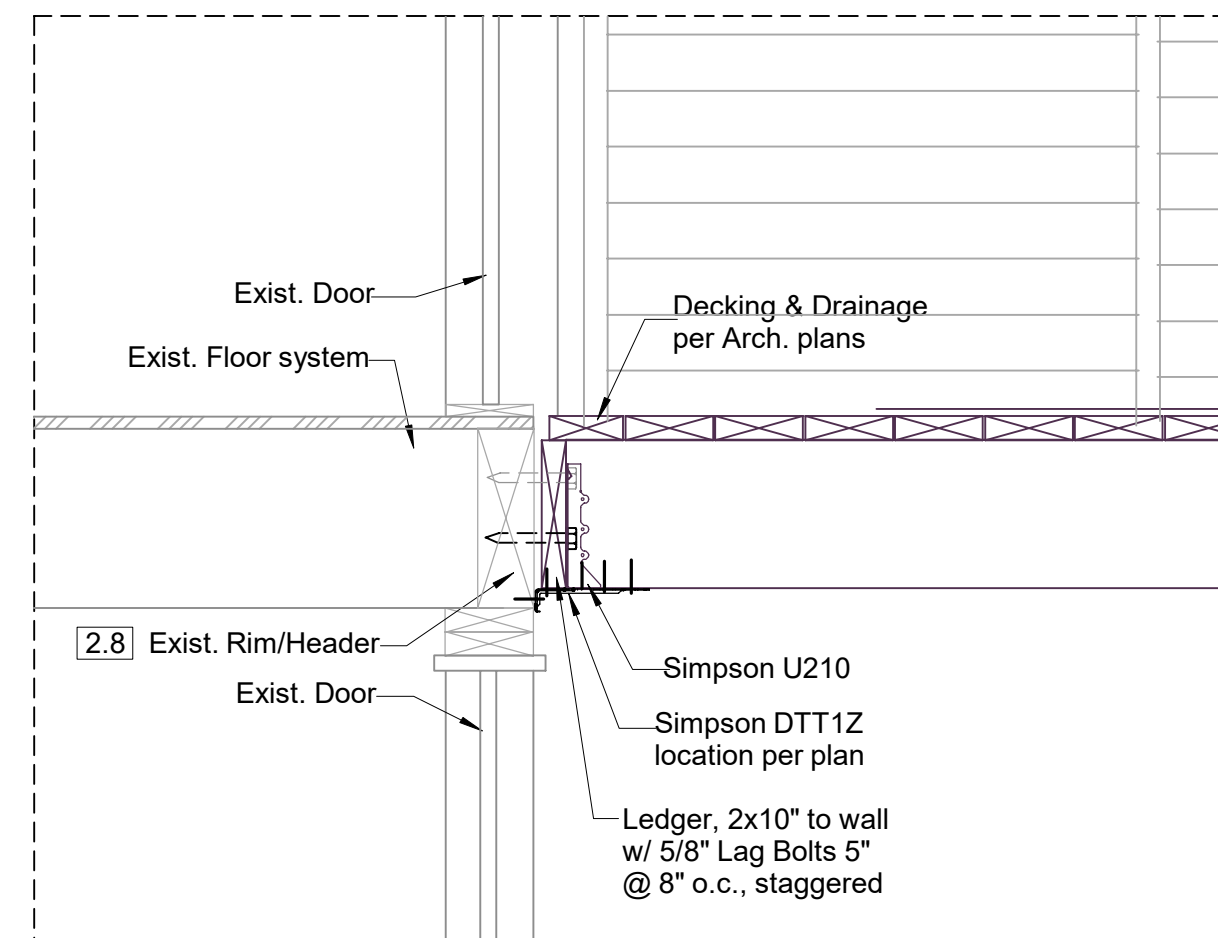
4111 164th St. SW #51, Lynnwood, WA 98087
Telephone (206) 553 9076 - email: www.heimisch@yahoo.com

ENGINEERING

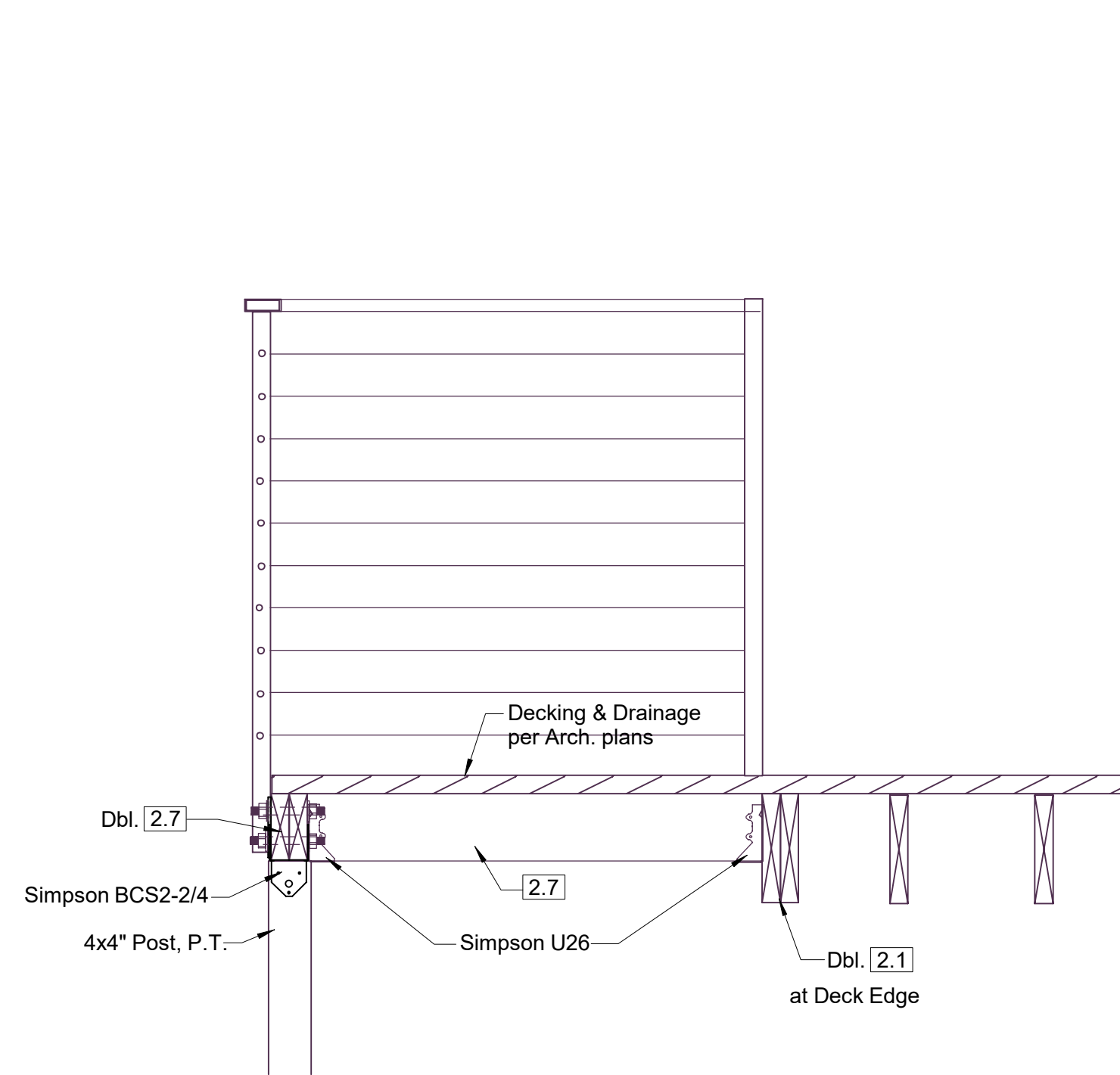
CLIENT:	Eric & Jodi Blohm	S2
JOB SITE:	5642 E Mercer Way, Mercer Island, WA	
PROPERTY #		
DESCRIPTION:	New Covered Deck	
DATE:	03/30/2023 SCALE: as noted	
ENGINEER:	Roland Heimisch, P. E.	



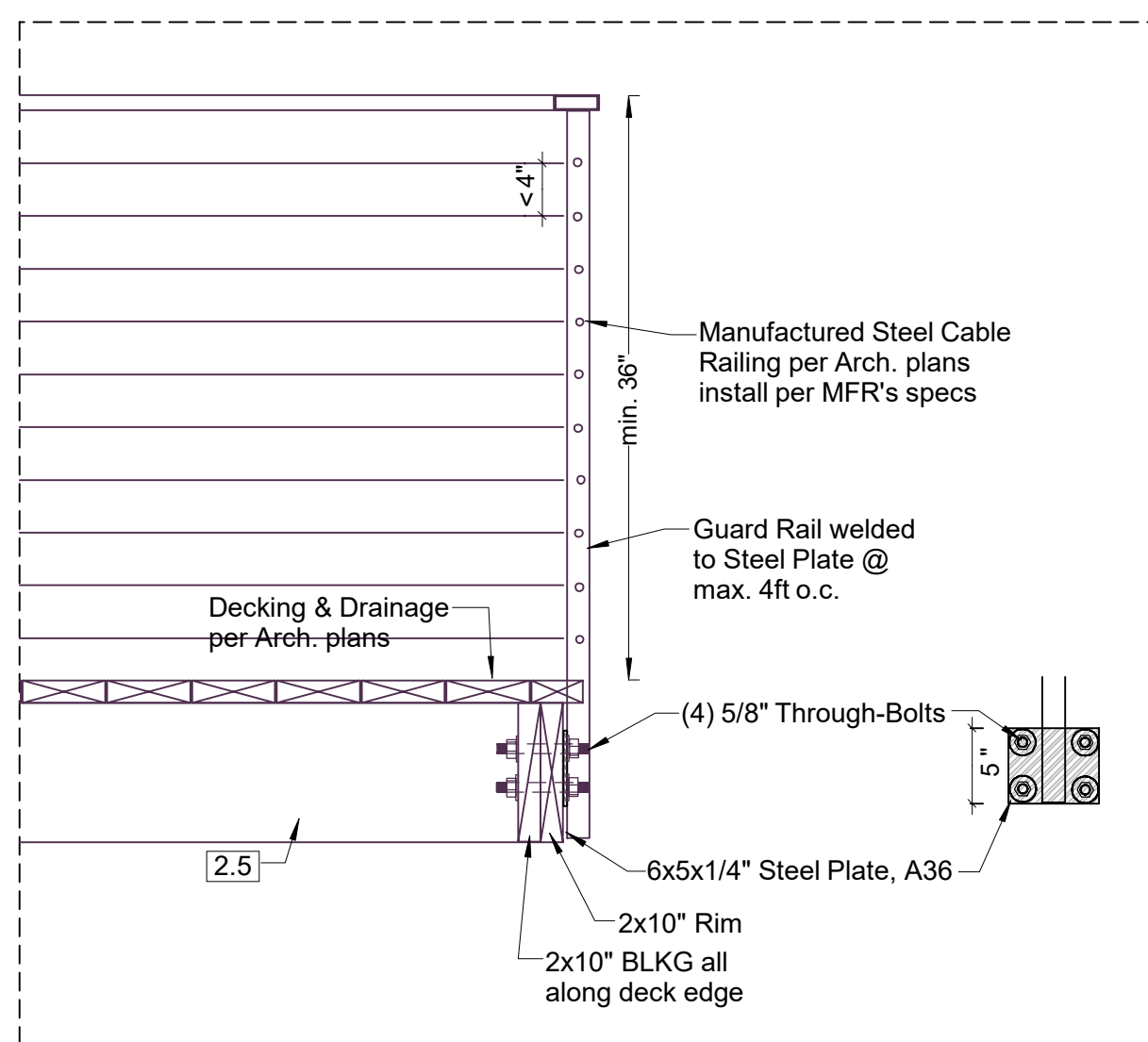
DETAIL 1 SCALE: 1" = 1'-0" (1:12)



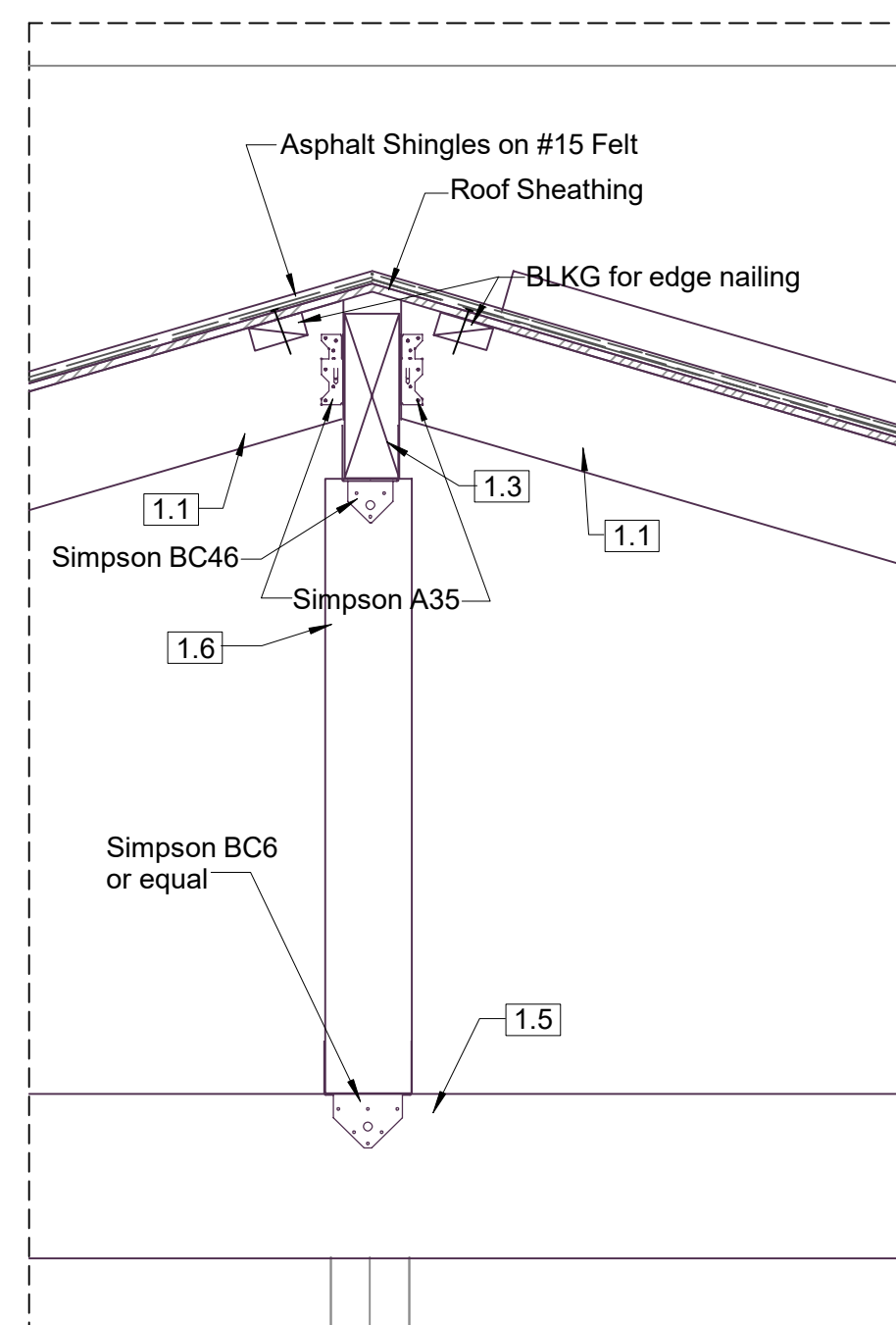
DETAIL 2 SCALE: 1" = 1'-0" (1:12)



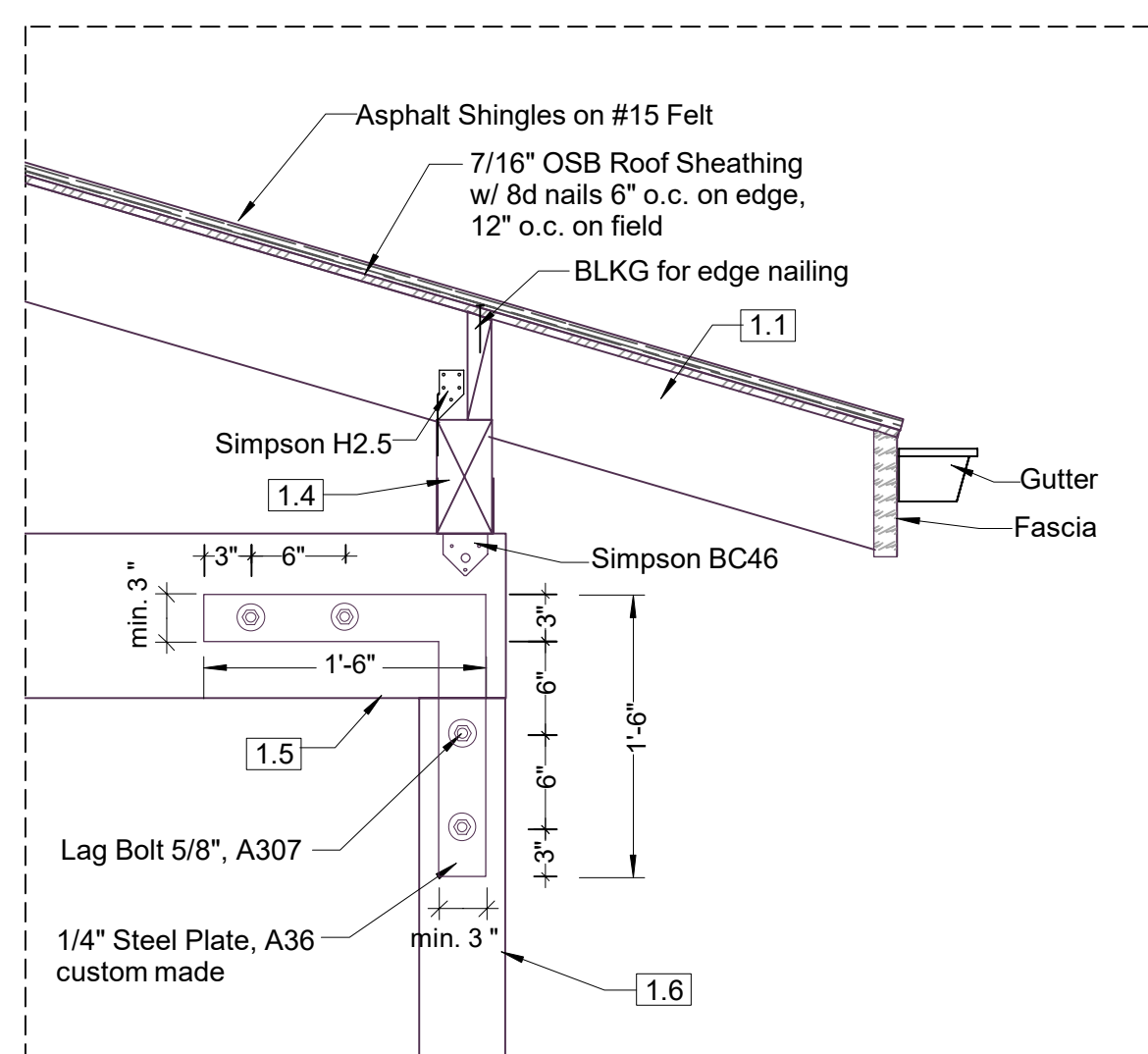
DETAIL 4 SCALE: 1" = 1'-0" (1:12)



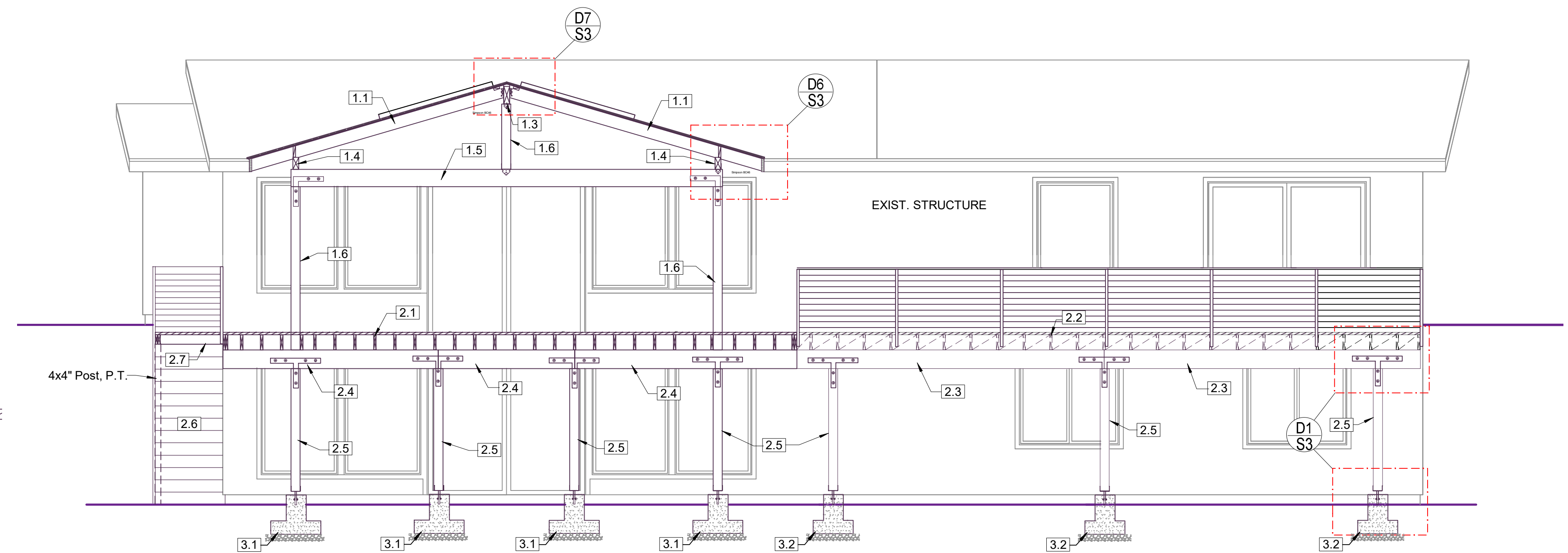
DETAIL 3 SCALE: 1" = 1'-0" (1:12)



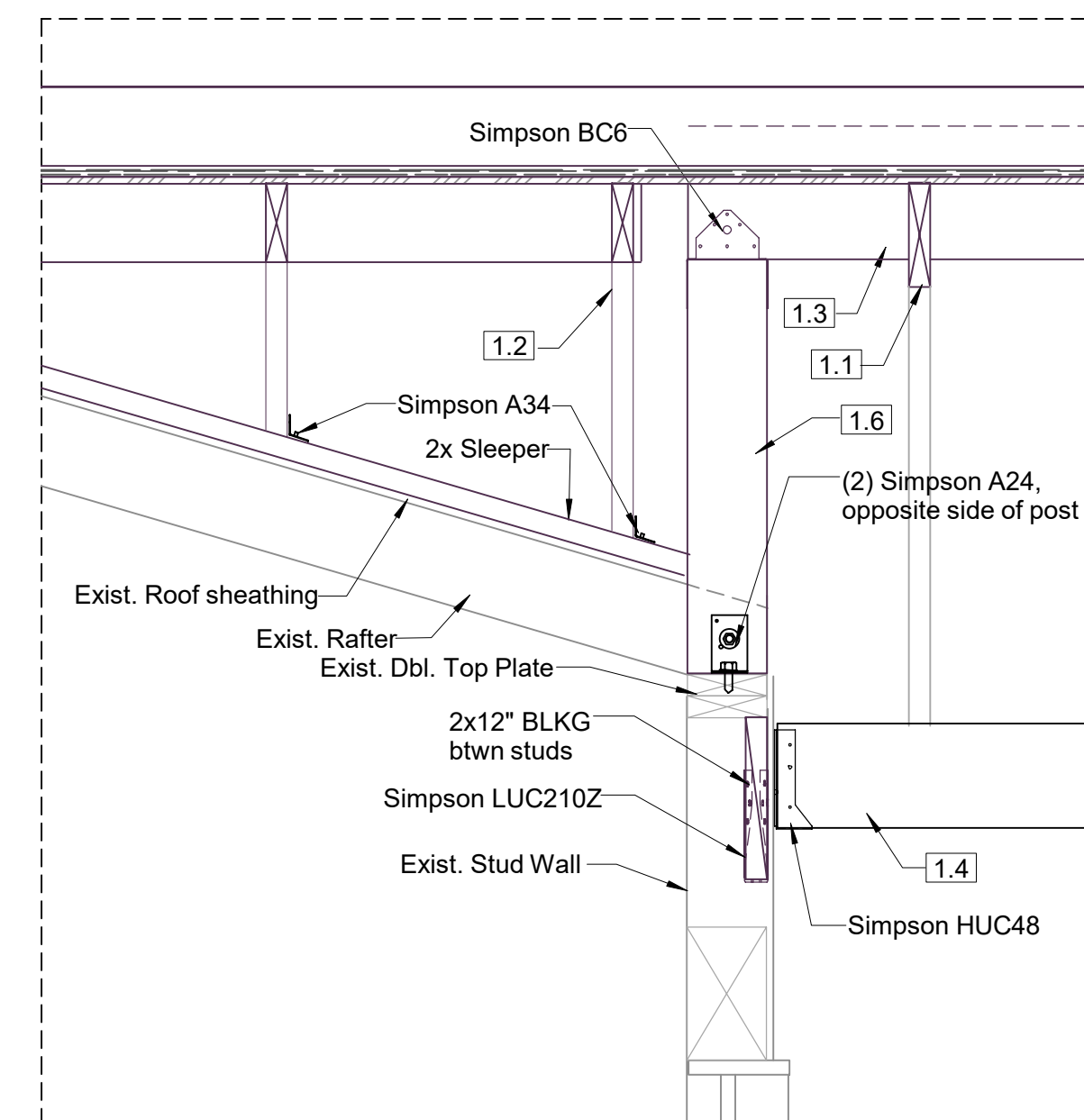
DETAIL 7 SCALE: 1" = 1'-0" (1:12)



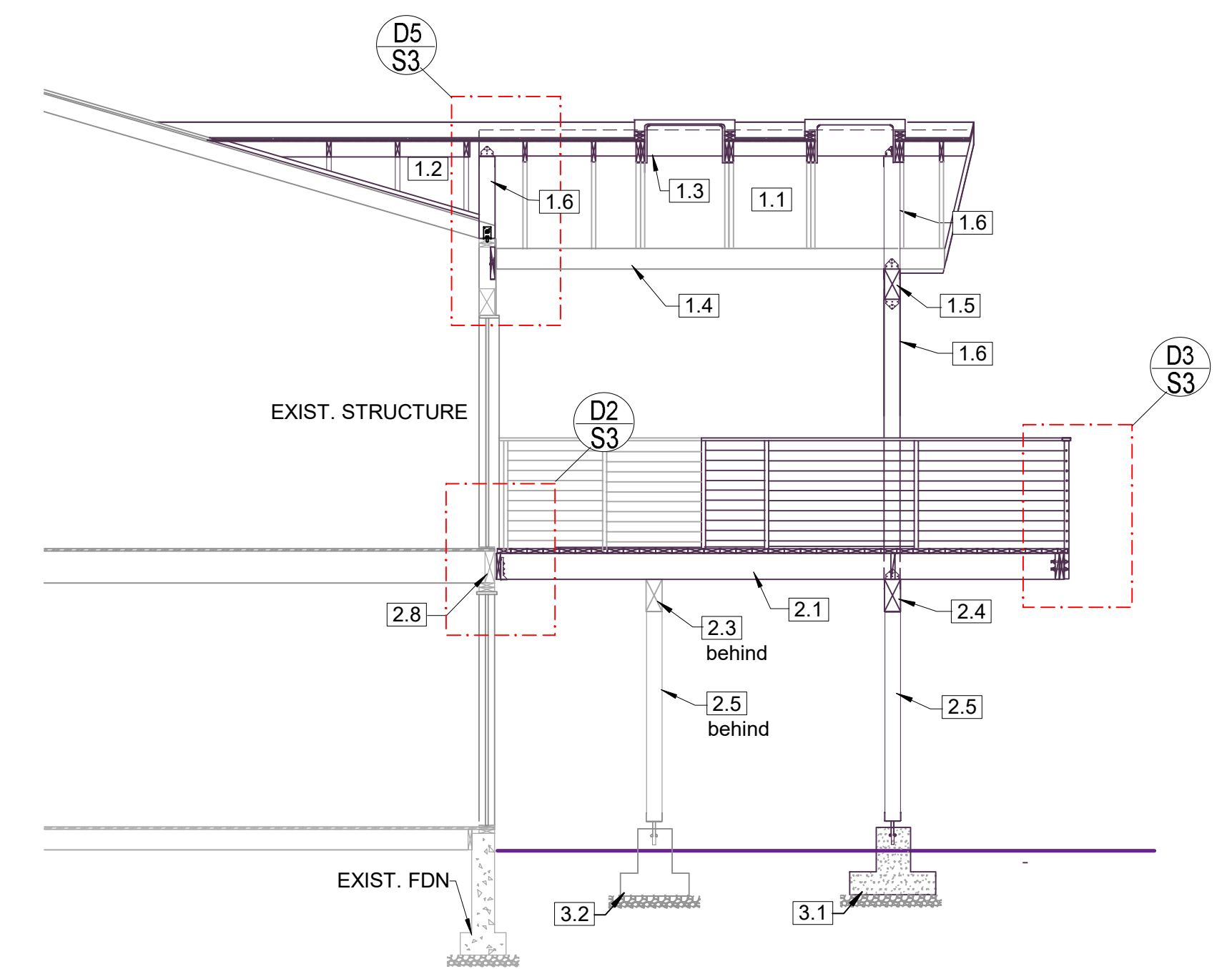
DETAIL 6 SCALE: 1" = 1'-0" (1:12)



BUILDING SECTION A-A SCALE: 1/4" = 1'-0" (1:48)



DETAIL 5 SCALE: 1" = 1'-0" (1:12)



BUILDING SECTION B SCALE: 1/4" = 1'-0" (1:48)



tec instruct LLC
4111 164th St. SW #51, Lynnwood, WA 98087
Telephone (206) 553 9076 - email: www.rheimisch@yahoo.com
ENGINEERING

CLIENT:	Eric & Jodi Blohm	SHEET
JOB SITE:	5642 E Mercer Way, Mercer Island, WA	S3
PROPERTY #		
DESCRIPTION:	New Covered Deck	
DATE:	03/30/2023 SCALE: as noted	
ENGINEER:	Roland Heimisch, P. E.	

LEGAL DESCRIPTION

(PER STATUTORY WARRANTY DEED, APN NO. 20150826000882)

PARCEL A:
 THAT PORTION OF GOVERNMENT LOT 3, SECTION 19, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M., RECORDS OF KING COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:
 BEGINNING AT A POINT OF A LINE 2120.00 FEET NORTH OF THE SOUTH LINE OF SAID SECTION, WHICH IS 1032.41 FEET EAST OF THE NORTH-SOUTH CENTERLINE OF SAID SECTION;
 THENCE NORTH 03°58'12" EAST 100.24 FEET TO A LINE 2220.00 FEET NORTH OF THE SOUTH LINE OF SAID SECTION;
 THENCE EAST 300.00 FEET TO THE WESTERLY LINE OF THAT CERTAIN PRIVATE ROADWAY ESTABLISHED AND NOW EXISTING UNDER EASEMENT RECORDED UNDER AUDITOR'S FILE NO. 4004443, RECORDS OF KING COUNTY;
 THENCE SOUTH 03°58'12" WEST ALONG SAID WESTERLY LINE 100.24 FEET TO A POINT EAST OF THE POINT OF BEGINNING;
 THENCE WEST 300.00 FEET TO THE POINT OF BEGINNING;

PARCEL B:
 THAT PORTION OF GOVERNMENT LOT 3, SECTION 19, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M., RECORDS OF KING COUNTY, WASHINGTON, LYING BETWEEN LINES PARALLEL WITH AND 2205.00 FEET AND 2220.00 FEET NORTH OF THE SOUTH LINE OF SAID SECTION AND EASTERLY OF THE ABOVE DESCRIBED PRIVATE ROADWAY;

TOGETHER WITH SHORELANDS CONVEYED BY THE STATE OF WASHINGTON, SITUATE IN FRONT OF, ADJACENT TO, OR ABUTTING THEREON; AND TOGETHER WITH AN EASEMENT FOR INGRESS AND EGRESS OVER SAID PRIVATE ROADWAY, LYING EAST OF EAST MERCER WAY BETWEEN LINES DRAWN PARALLEL TO AND DISTANT RESPECTIVELY 1400 AND 2220 FEET NORTH OF THE SOUTH LINE OF SAID SECTION 19, DESCRIBED AS MORE FULLY PROVIDED IN EASEMENT DATED MARCH 25, 1942 UNDER AUDITOR'S FILE NO. 3230364 AND IN EASEMENT DATED JUNE 1, 1943, RECORDED APRIL 10, 1950 UNDER AUDITOR'S FILE NO. 4004443, RECORDS OF KING COUNTY, WASHINGTON;

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

BASIS OF BEARINGS

NAD 83(2011) WASHINGTON NORTH COORDINATE SYSTEM PER GPS OBSERVATIONS, THE CENTERLINE OF E MERCER WAY BEARS N 05°41'32" E BETWEEN FOUND MONUMENTS.

REFERENCES

1. UNRECORDED SURVEY BY DUFFY, LAWYER & KUMPF, INC. ENGINEERS LAND SURVEYORS, DATED DEC. 23, 1975 641/30
2. RECORD OF SURVEY, BOOK 150, AT PAGE 193, KING COUNTY, WASHINGTON.
3. RECORD OF SURVEY, VOLUME 151, PAGE 17, IN KING COUNTY, WASHINGTON.
4. RECORD OF SURVEY, VOLUME 67, PAGE 181, IN KING COUNTY, WASHINGTON.
5. RECORD OF SURVEY, VOLUME 74, PAGE 224, IN KING COUNTY, WASHINGTON.
6. RECORD OF SURVEY, VOLUME 74, PAGE 224, IN KING COUNTY, WASHINGTON.
7. TIMBERLAND NO. 7 PLAT
8. KING COUNTY CONTROL SURVEY, SEC. 19, TWP. 24, RGE 05

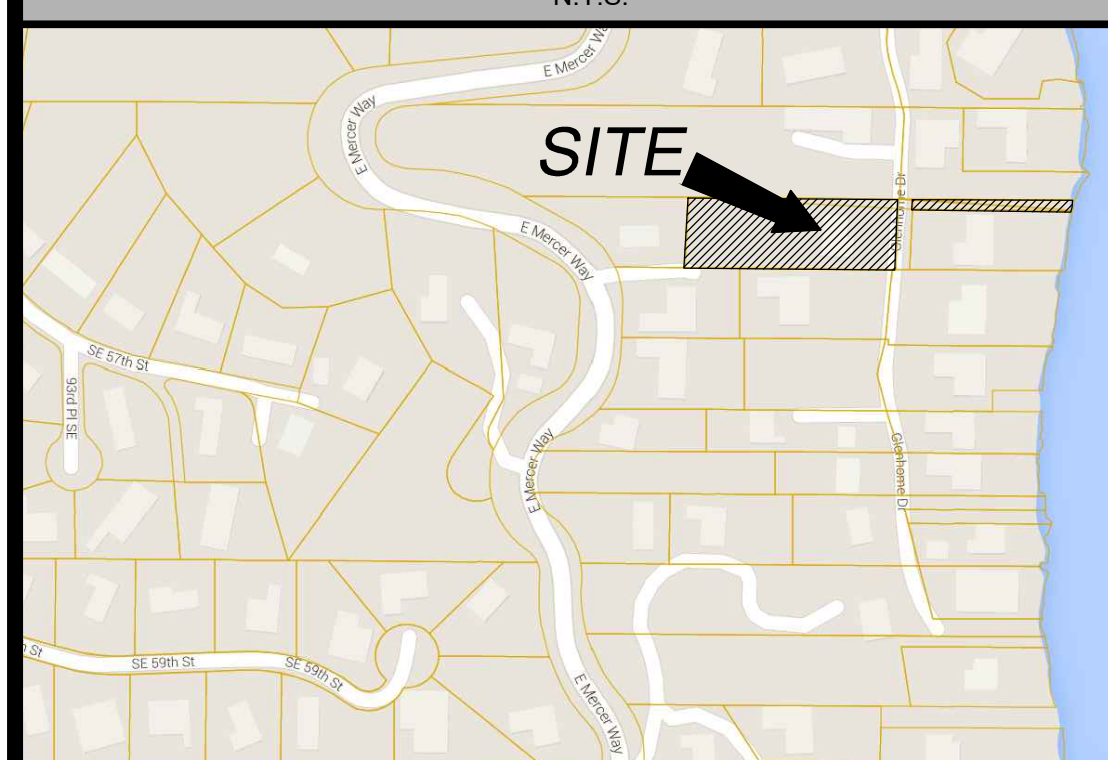
VERTICAL DATUM

NAVD88 PER GPS OBSERVATIONS

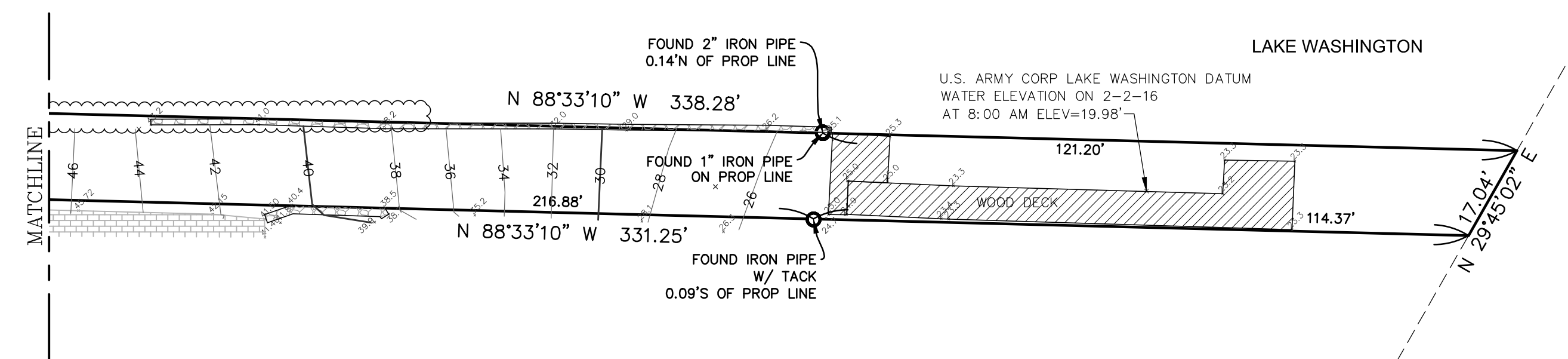
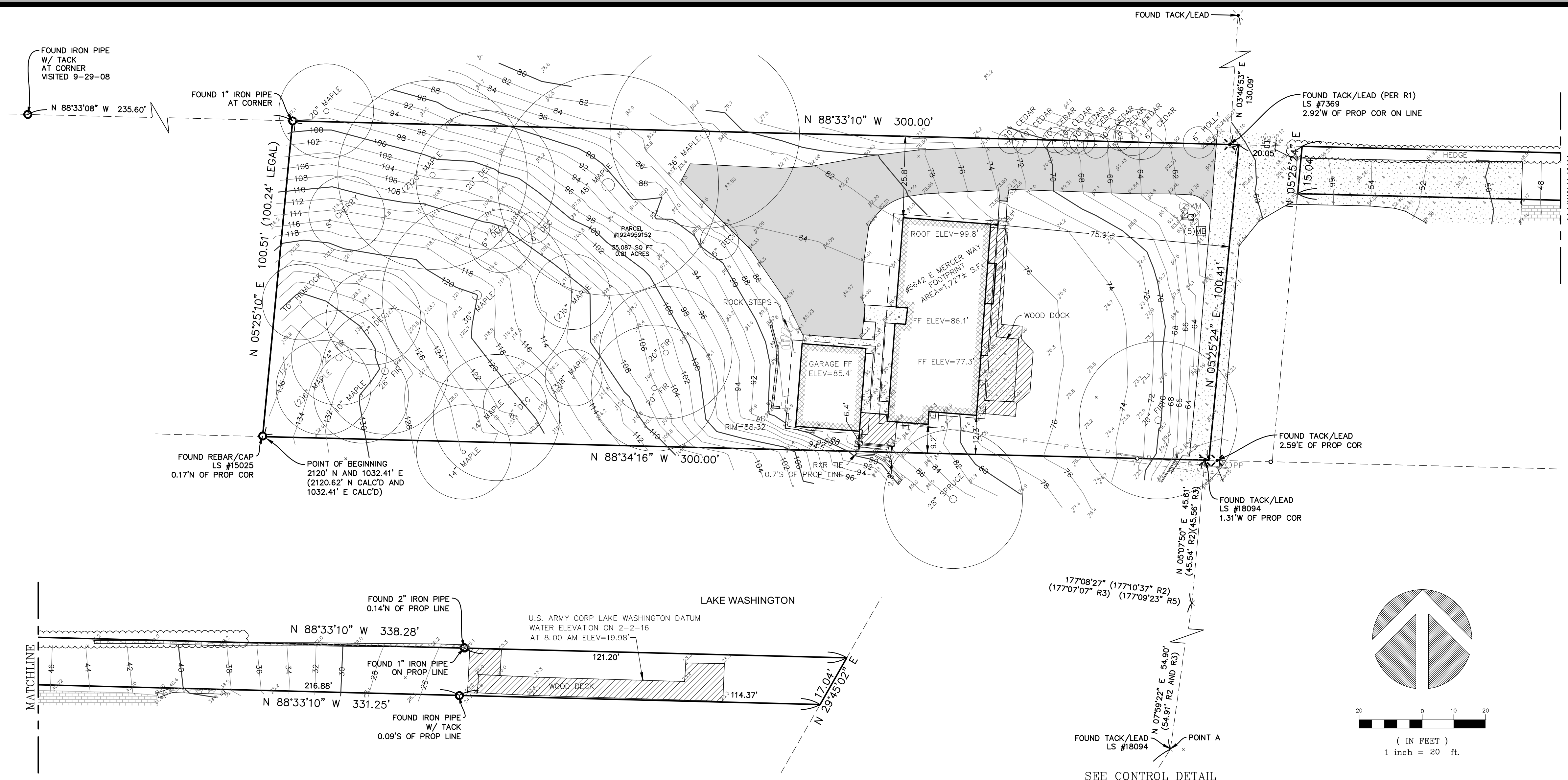
SURVEYOR'S NOTES

1. THE TOPOGRAPHIC SURVEY SHOWN HEREON WAS PERFORMED IN FEBRUARY OF 2016. THE FIELD DATA WAS COLLECTED AND RECORDED ON MAGNETIC MEDIA THROUGH AN ELECTRONIC THEODOLITE. THE DATA FILE IS ARCHIVED ON DISC OR CD. WRITTEN FIELD NOTES MAY NOT EXIST. CONTOURS ARE SHOWN FOR CONVENIENCE ONLY. DESIGN SHOULD RELY ON SPOT ELEVATIONS.
2. BURIED UTILITIES SHOWN BASED ON RECORDS FURNISHED BY OTHERS AND VERIFIED WHERE POSSIBLE IN THE FIELD. GEODIMENSIONS ASSUMES NO LIABILITY FOR THE ACCURACY OF THOSE RECORDS OR ACCEPT RESPONSIBILITY FOR UNDERGROUND LINES WHICH ARE NOT MADE PUBLIC RECORD. FOR THE FINAL LOCATION OF EXISTING UTILITIES IN AREAS CRITICAL TO DESIGN CONTACT THE UTILITY OWNER/AGENCY. AS ALWAYS, CALL 1-800-424-5555 BEFORE CONSTRUCTION.
3. SUBJECT PROPERTY TAX PARCEL NO. 1924059152
4. SUBJECT PROPERTY AREA PER THIS SURVEY IS 35.087± S.F. (0.81± ACRES)
5. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT. EASEMENTS AND OTHER ENCUMBRANCES MAY EXIST THAT ARE NOT SHOWN HEREON.
6. INSTRUMENTATION FOR THIS SURVEY WAS A TRIMBLE ELECTRONIC DISTANCE MEASURING UNIT. PROCEDURES USED IN THIS SURVEY WERE DIRECT AND REVERSE ANGLES. NO CORRECTION NECESSARY. MEETS STATE STANDARDS SET BY WAC 332-130-090.

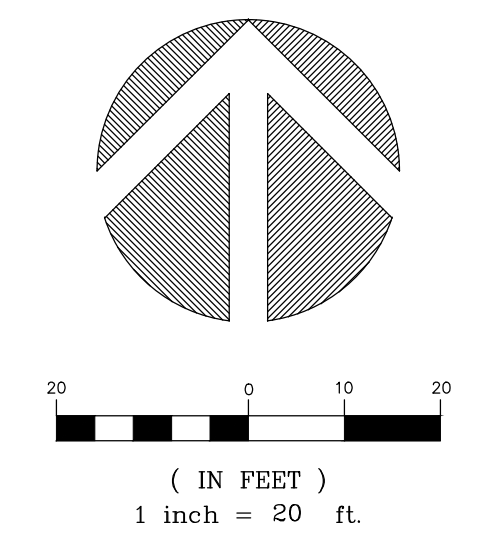
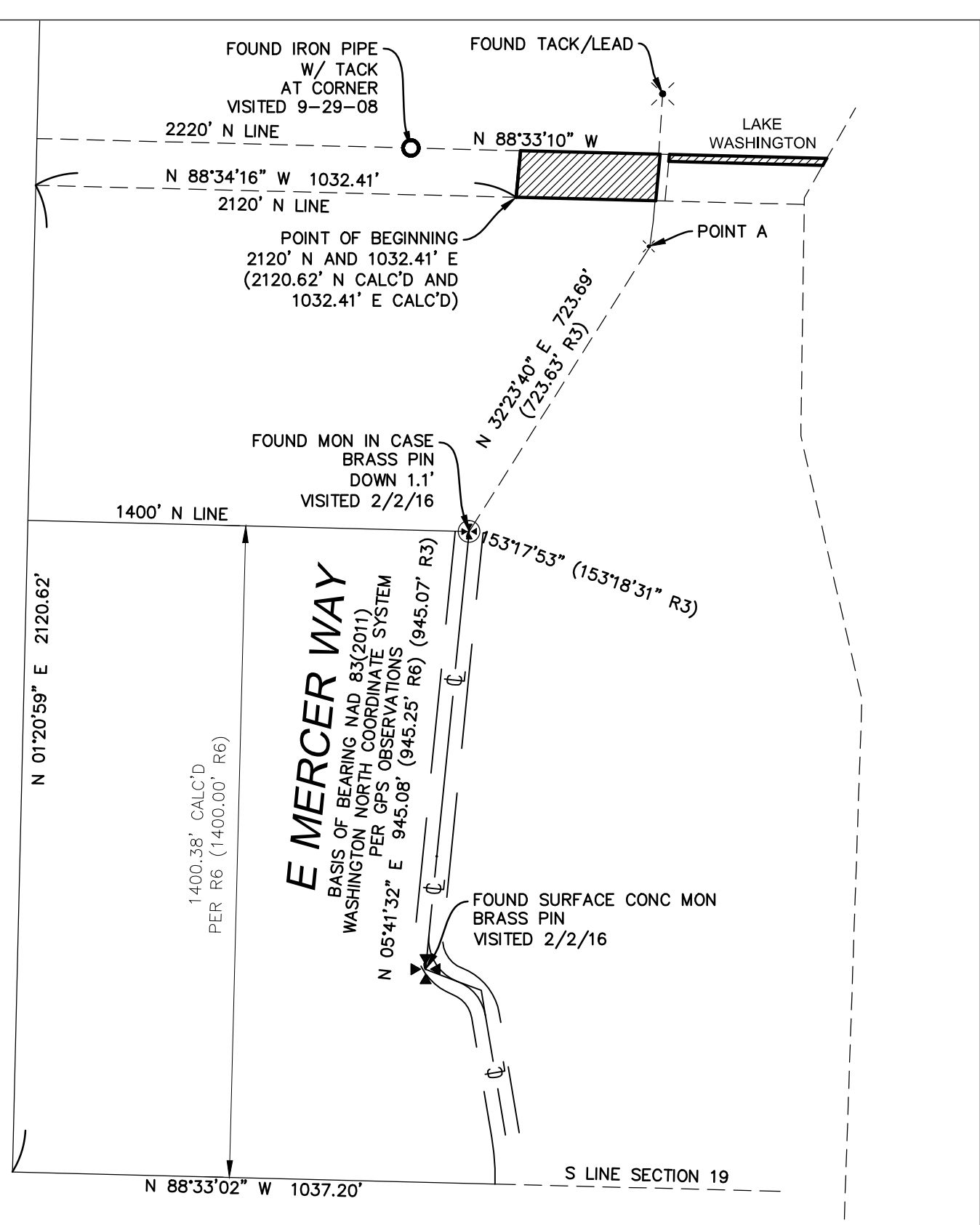
VICINITY MAP
N.T.S.



TOPOGRAPHIC & BOUNDARY SURVEY



CONTROL MAP
SCALE: 1" = 300'



LEGEND

[Symbol]	ASPHALT SURFACE
[Symbol]	BUILDING
[Symbol]	CENTERLINE ROW
[Symbol]	CONCRETE SURFACE
[Symbol]	DECK
[Symbol]	GAS METER
[Symbol]	HEDGE ROW
[Symbol]	IRON PIPE (FOUND)
[Symbol]	SURFACE MON
[Symbol]	MON IN CASE (FOUND)
[Symbol]	NAIL AS NOTED
[Symbol]	POWER METER
[Symbol]	POWER (OVERHEAD)
[Symbol]	POWER POLE
[Symbol]	REBAR AS NOTED/FOUND
[Symbol]	ROCKERY
[Symbol]	TELEPHONE (OVERHEAD)
[Symbol]	TREE (AS NOTED)
[Symbol]	WATER METER
[Symbol]	WOOD FENCE

measure success

TOPOGRAPHIC & BOUNDARY SURVEY
 NE 1/4 OF SE 1/4 SEC 19, TWP. 24 N., RGE 05 E., W.M.
 PARCEL NO. 1924059152

BLOHM RESIDENCE
 5642 E MERCER WAY
 MERCER ISLAND, WA 98040

GeoDimensions
 GeoDimensions, Inc., 10801 Main Street, Suite 102, Bellevue, WA 98004
 phone 425-458-4488 support@geodimensions.net www.geodimensions.net

JOB NUMBER: 160011
DATE: 2/26/16
DRAFTED BY: TGC
CHECKED BY: SRM
SCALE: 1" = 20'

REVISION HISTORY

SHEET NUMBER
1 OF 1