

WA STATE ENERGY CODE FORMS

CITY OF MERCER ISLAND

DEVELOPMENT SERVICES GROUP
9611 SE 36TH STREET | MERCER ISLAND, WA 98040
PHONE: 206.275.7605 | www.mercer.gov
Inspection Requests: Online: www.MyBuildingPermits.com VM: 206.275.7730



2015 WSEC & IRC Ventilation Worksheet (Effective July 1, 2016)

INFORMATION IN THESE WORKSHEETS MUST BE INCLUDED IN THE CONSTRUCTION DOCUMENTS. This set of worksheets has been developed to assist permit applicants with documenting compliance with the 2015 Washington State Energy Code. The following worksheets provide much of the required documentation for plan review. The details, systems, and ratings noted here must also be shown on the drawings.

PRESCRIPTIVE ENERGY CODE COMPLIANCE FOR CLIMATE ZONE MARINE 4

Table with 7 columns: Component, Fenestration 1 (Vertical, Overhead), Ceiling w/ Attic, Vaulted Ceiling, Wood Framed (Int.), Mass Wall (Above grade), Below-Grade Wall 1, Framed Floor, Slab R-Value & Depth. Rows include R-30 min., R-21 min., and R-10 min. options.

Fenestration is defined as skylights, roof windows, vertical windows (fixed or movable), opaque doors, glazed doors, glazed blocks and combination opaque/glazed doors. Fenestration includes products with glass and non-glass glazing materials. ... Insulation shall be continuous on the exterior of the wall, or R-15 on the exterior of the wall, or R-21 cavity insulation plus a thermal break between the slab and the basement wall at the interior of the basement wall.

Whole House Ventilation (Prescriptive)

Please check the appropriate box to describe which of the four prescriptive Whole House Ventilation Systems you will be using AND fill in the required whole house ventilation rate in CFM's. See 2015 Residential Whole House Ventilation Rate Handbook A complete system required by one of the sections noted below must be specified on the drawings.

Table with 2 columns: Whole House Ventilation Method and Whole House Ventilation Rate. Methods include Intermittent Whole House Ventilation Using Exhaust Fans & Fresh Air Inlets (90 CFM), Intermittent Whole House Ventilation Integrated with a Forced Air System (90 CFM), Intermittent Whole House Ventilation using a Supply Fan (90 CFM), and Intermittent Whole House Ventilation using a Heat Recovery Ventilation System (90 CFM).

Source Specific Exhaust Ventilation & Fan Efficiency

Required in each kitchen, bathroom, water closet compartment, laundry room, indoor swimming pool, spa and other rooms where water vapor or cooking odor is produced. IRC M1507.4) Fan efficiency from WAC 511-11R - Table R403.4.1. Kitchen Hoods greater than 400 cfm require make-up air per IRC M1503.4.

Table with 4 columns: Minimum Source Specific Ventilation Capacity Requirements, Bathrooms - Utility Rooms, Kitchens, In-line fan. Rows include Intermittently operating (50 cfm min), Continuous operation (20 cfm min), and Minimum Efficacy (cfm/watt).

Energy Efficiency Credits

- Each dwelling unit shall comply with sufficient options from WSEC Table R406.2 so as to achieve the following minimum number of credits as described on the reverse side of this page.
- Small Dwelling Unit: 1.5 credits (Dwelling units less than 1500 SF in conditioned floor area with less than 300 square feet of fenestration area. Additions to existing building that are greater than 500 SF of heated floor area, but less than 1500 SF. TOTAL SQUARE FEET OF FENESTRATION: (doors, windows, skylights)
- Medium Dwelling Unit: 3.5 credits (All dwelling units not included in #1 or #3. Exception: Dwelling units serving R-2 occupancies shall require 2.5 credits.
- Large Dwelling Unit: 4.5 credits (Dwelling Units exceeding 5000 SF of conditioned floor area.
- Additions less than 500 SF: 0.5 credits.

SCOPE OF CHANGE DOES NOT CHANGE SQUARE FOOTAGE OF CONDITIONED SPACE, INCREASES GARAGE AND DECK SQUARE FOOTAGE, NO CHANGE TO MECHANICAL OR

2015 WSEC - Table R406.2 - circle the options that you will be using for this project

Table with 3 columns: OPTION, DESCRIPTION, CREDITS. Includes options for Efficient Building Envelope, Air Leakage Control and Efficient Ventilation, High Efficiency HVAC Equipment, and High Efficiency HVAC Distribution System.

WA STATE VENTILATION REQUIREMENTS

M1507.3 Whole-House Mechanical Ventilation System
Whole-house mechanical ventilation systems shall be designed in accordance with Sections M1507.3.1 through M1507.3.3.

M1507.3.1 System Design

Each dwelling unit or guestroom shall be equipped with a ventilation system complying with Section M1507.3.4. M1507.3.5, M1507.3.6 or M1507.3.7. Compliance is also permitted to be demonstrated through compliance with the International Mechanical Code or ASHRAE Standard 62.2.

M1507.3.2 Control and operation

Location of controls. Controls for all ventilation systems shall be readily accessible by the occupant. Instructions. Operating instructions for whole-house ventilation systems shall be provided to the occupant by the installer of the system. Local exhaust systems. Local exhaust systems shall be controlled by manual switches, dehumidistats, timers, or other approved means

Continuous whole-house ventilation systems. Continuous whole-house ventilation systems shall operate continuously and be equipped with an override control. A "fan on" switch shall be permitted as an override control. Controls shall be capable of operating the ventilation system without energizing other energy-consuming appliances. A clearly visible label shall be affixed to the controls that reads "Whole House Ventilation (see operating instructions)." Intermittent whole-house ventilation systems. Intermittent whole-house ventilation systems shall comply with the following:

- They shall be capable of operating intermittently and continuously.
- They shall have controls capable of operating the exhaust fans, forced-air system fans, or supply fans without energizing other energy-consuming appliances.
- The ventilation rate shall be adjusted according to the exception in Section M1507.3.3.
- The system shall be designed so that it can operate automatically based on the type of control timer installed.
- The intermittent mechanical ventilation system shall operate at least one hour out of every four.
- The system shall have a manual control and automatic control, such as a 24-hour clock timer.
- At the time of final inspection, the automatic control shall be set to operate the whole-house fan according to the schedule used to calculate the whole-house fan sizing.
- A label shall be affixed to the control that reads "Whole House Ventilation (see operating instructions)."

M1507.3.2.1 Operating instructions

Installers shall provide the manufacturer's installation, operating instructions, and a whole-house ventilation system operation description.

M1507.3.3 Mechanical Ventilation Rate

The whole-house mechanical ventilation system shall provide outdoor air to each dwelling unit at a continuous rate of not less than that determined in accordance with Table M1507.3.3(1).

Exception: The whole-house mechanical ventilation system is permitted to operate intermittently where the system has controls that enable operation for not less than 25 percent of each 4-hour segment and the ventilation rate prescribed in Table M1507.3.3(1) is multiplied by the factor determined in accordance with Table M1507.3.3(2).

M1507.3.5 Whole-house ventilation integrated with a forced-air system

This section establishes minimum prescriptive requirements for whole-house ventilation systems integrated with forced-air ventilation systems. A system which meets all the requirements of this section shall be deemed to satisfy the requirements for a whole-house ventilation system.

M1507.3.5.1 Integrated whole-house ventilation systems
Integrated whole-house ventilation systems shall provide outdoor air at the rate calculated using Section M1507.3.3. Integrated forced-air ventilation systems shall distribute outdoor air to each habitable space 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 will be equipped with a motorized damper connected to the automatic ventilation control as specified in Section M1507.3.2. The required flow rate shall be verified by field testing with flow hood or a flow measuring station

M1507.3.5.2 Ventilation duct insulation
All supply ducts in the conditioned space shall be insulated to a minimum of R-4.

M1507.3.5.3 Outdoor air inlets
Inlets shall be screened or otherwise protected from entry by leaves or other material. Outdoor air inlets shall be located so as not to take air from the following areas:

- Closer than 10 feet from an appliance vent outlet, unless such vent outlet is 3 feet above the outdoor air inlet.
- Where it will pick up objectionable odors, fumes or flammable vapors.
- A hazardous or unsanitary location.
- A room or space having any fuel-burning appliances therein.
- Closer than 10 feet from a vent opening of a plumbing drainage system unless the vent opening is at least 3 feet above the air inlet.
- Attic, crawl spaces, or garages.

WHOLE HOUSE VENTILATION CALCULATIONS

PROPOSED CONDITIONED SF = 5,704 SF
NUMBER OF BEDROOMS = 6
AIRFLOW IN CFM REQUIRED FOR CONTINUOUS VENTILATION = 120 CFM
RUN-TIME PERCENTAGE IN EACH 4-HOUR SEGMENT = 25%
FACTOR = 4

CALCULATION
120 CFM X 4 = 480 CFM

2015 IRC SECTION M1507, WA AMENDED 403.8.1 & 403.8.1 - INTERMITTENT WHOLE HOUSE VENTILATION
PER IRC TABLES M1507.3.3(1)(2) A 25% RUN-TIME IN EACH 4-HOUR SEGMENT REQUIRES A 480 CFM FAN(S) TO BE PROVIDED FOR THE REQUIRED WHOLE-HOUSE VENTILATION. THIS VENTILATION REQUIREMENT WILL BE HANDLED BY A BALANCED VENTILATION SYSTEM IN CONJUNCTION WITH FORCED AIR UNIT. SEE WA STATE VENTILATION NOTES SECTION 1507.3.5.1 ON SHEET A001 REGARDING VENTILATION REQUIREMENTS BASED INTEGRATED WITH A FORCED AIR UNIT.
*OUTDOOR AIR INLET DUCT TO BE FIELD LOCATED WITH HVAC SUBCONTRACTOR IN CONJUNCTION WITH PLACING EXHAUST DUCTS IN ORDER TO AVOID CONFLICT.

IRC M1507, WA AMENDED TABLE 403.8.1 & 403.5.1

Table with 2 columns: DWELLING UNIT FLOOR AREA (square feet) and NUMBER OF BEDROOMS (0-1, 2-3, 4-5, 6-7, >7). Includes Airflow in CFM and RUN-TIME PERCENTAGE IN EACH 4-HOUR SEGMENT.

SCOPE OF CHANGES:
NO CHANGES TO THIS SHEET

S:\DS\G\FORMS\2017\Building\2015_WSEC_IRC_Ventilation.pdf

Simple Heating System Size

Electronic version available at: http://www.energy.wsu.edu/Documents/heat_sizing_cohrs2015spec_final_40143.pdf

Please complete the following information regarding the heating system for this project. The electronic version automatically calculates the information based on the information selected. The paper form below may be used if a computer is not available but will need to be hand calculated.

Form for Simple Heating System Size with input fields for Conditioned Floor Area, Average Ceiling Height, Conditioned Volume, and various U-Factor and Area calculations for Glazing and Doors, Skylights, Insulation, and Envelope Heat Load.

Energy Code Support logo with Washington State University Extension Energy Program logo. Duct Testing Standard (RS-33) For New and Existing Construction.

New Construction

Based on the protocol for "Total Leakage Testing" or "Leakage Testing to Outdoors" duct leakage in new construction shall not exceed 0.04 CFM25 x floor area (in square feet) served by the system for leakage to outdoors or for total leakage when tested post construction. When testing at rough-in, targets should not exceed 0.04 CFM25 x floor area (in square feet) for total leakage or 0.03 CFM25 x floor area (in square feet) if the air handler is not installed.

Exception: The total leakage test is not required for ducts and air handlers located entirely within the building thermal envelope. Ducts located in crawl spaces do not qualify for this exception.

Existing Construction

When a space-conditioning system is altered by the installation or replacement of space-conditioning equipment (including replacement of the air handler, outdoor condensing unit of a split system air conditioner or heat pump, cooling or heating coil, or the furnace heat exchanger), the duct system that is connected to the new or replacement space-conditioning equipment shall be tested. The test results shall be provided to the building official and the homeowner.

Exception 1: Duct systems that are documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in RS-33.

Exception 2: Ducts with less than 40 linear feet in unconditioned spaces.

Exception 3: Existing duct systems constructed, insulated or sealed with asbestos.

Exception 4: Additions of less than 750 square feet of conditioned floor area.

In addition, the following requirements must be met:

1. All testing must be done by a qualified technician. The minimum qualification requirement is documented attendance at a duct testing training course approved by the building official. The following existing training programs are recognized as equivalent to this requirement:
a. Northwest ENERGY STAR Homes Program, Performance Testing training for new construction.
b. Performance Tested Comfort Systems (PTCS) training for existing homes and new construction.
2. Duct systems must be designed, sized, and installed using recognized industry standards and International Residential Code (IRC) requirements, so that calculated heating and/or cooling loads are delivered to each zone.

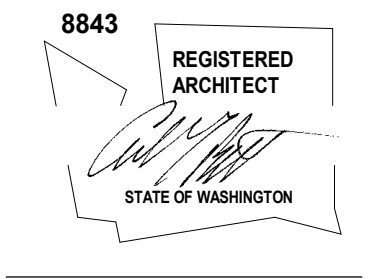
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Design Group

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Seattle, WA
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MERCER ISLAND, WA 98040
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PERMIT DRAWINGS

DATE: 06.10.22

SHEET SIZE: D (24X36)

REVISIONS

Table with 3 columns: NO., DESCRIPTION, DATE. Revision 3: PERMIT REVISION 1, 04.19.22

DRAWN BY: KJM

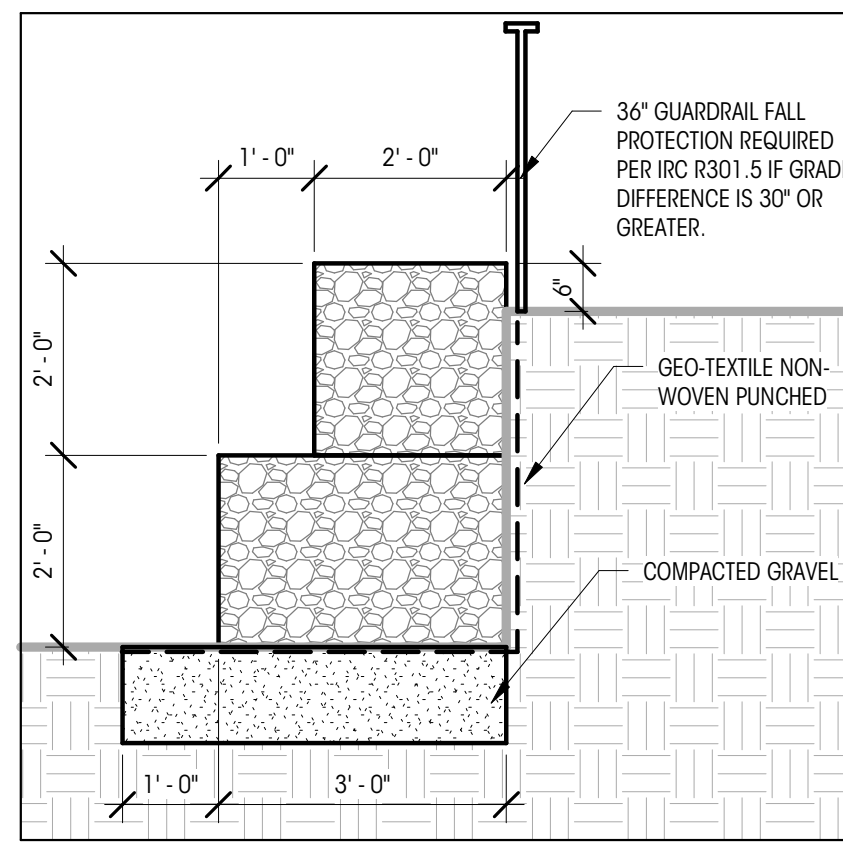
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WA STATE ENERGY CODE / VENTILATION CALC

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

A001

DEDICATED APPROVAL STAMP SPACE



FRONT YARD ENCROACHMENT

POINT	ELEV. (FT.)	POINT	ELEV. (FT.)
A1	117.83	B1	130.45
A2	128.84	B2	130.75
A3	129.09	B3	131.16
A4	129.20	B4	131.47
A5	129.43	B5	131.82
TOTAL	634.39		655.65

AVERAGE A: 634.39 / 5 = **126.878'**
 AVERAGE B: 655.65 / 5 = **131.13'**
 ELEVATION DIFFERENCE BETWEEN A & B:
 CONFORMANCE PER 19.02.040.D.1 & 2

AVERAGE BUILDING ELEVATION (ABE)

WALL	MIDPOINT ELEV. (FT.)	WALL LENGTH (FT.)	PRODUCT
A	113.95	30.38	3,461.168
B	109	26.56	2,895.3
C	109	13.92	1,516.9
D	114.0	27.08	3,087.5
E	124.2	82.88	10,292.9
F	129.10	22.68	2,927.7
G	117.83	38.58	4,546.4
H	117.83	5.04	594.0764
I	117.83	3.5	412.4167
J	117.92	13.83	1,631.1806
K	117.67	3.5	411.8333
L	117.67	12.60	1,489.191
TOTALS		280.6	33,262.6

AVERAGE GRADE (ABE) 33,262.6' / 280.6' = **118.56'**
 MAX ALLOWABLE HEIGHT 30' ABOVE AVERAGE GRADE **148.56'**
 MAX HEIGHT ELEVATION / MAX BUILDING HEIGHT: **148.56'**
 PROPOSED BUILDING HEIGHT: **146.72'**
 MAXIMUM CHIMNEY HEIGHT PER 19.02.020.E.3: **153.56'**

▲ AVERAGE BUILDING ELEVATION

PROJECT DATA

EXISTING LOT AREA SUMMARY	PRODUCT
GROSS LOT AREA	17,955 SF
ACCESS EASEMENTS	2,711 SF
NET LOT AREA	15,244 SF
LOT SLOPE	90.6' / 301.2' = 30.08%

TREE REMOVAL	PRODUCT
(E) REGULATED TREES TO BE REMOVED	3,299 SF
(N) TREES TO BE PLANTED, AS REPLACEMENT	541 SF
(N) DRIVEWAY/PARKING	732 SF
TOTAL LOT COVERAGE	4,572 SF = 29.99% OF NET LOT AREA
ALLOWABLE LOT COVERAGE = 30%	15,244 X 0.3 = 4,573 SF

HARDSCAPE	PRODUCT
(E) SITE WALLS	142 SF
(N) SITE WALLS	261 SF
(N) ROCKERIES	150 SF
(N) PAVING	199 SF
(N) STAIRS	82 SF
TOTAL PERCENTAGE	834 / 15,244 = 5.5%

PROPOSED BUILDING AREA SUMMARY (GFA):

PROPOSED LOWER LEVEL	1,943 SF
LOWER LEVEL BELOW GRADE REDUCTION	-1,148 SF
FINAL PROPOSED LOWER LEVEL	795 SF
PROPOSED MAIN LEVEL	1,629 SF
STAIR REDUCTION (PER 19.02.020.B.2.C)	-110 SF
FINAL PROPOSED MAIN LEVEL	1,519 SF
GARAGE	874 SF
PROPOSED OUTDOOR COVERED DECK	435 SF
PROPOSED UPPER LEVEL	2,133 SF
PROPOSED UPPER LEVEL 150% (PER 19.02.020.D.2.a)	354 SF
(209.52' x 1.5)	
TOTAL PROPOSED BUILDING AREA (GFA):	6,110 SF
PROPOSED GROSS FLOOR AREA:	6,110 / 17,955 = 34% OF GROSS LOT AREA
40% ALLOWABLE GFA	17,955 X 0.40 = 7,182 SF

SITE PLAN LEGEND/NOTES

SHEET REFERENCE NOTES:

- SEE SHEET A101 FOR PROPOSED BUILDING PAD PLAN.
- SEE SHEET A102 - A103 FOR SITE EXCAVATION PLANS AND SECTIONS.
- SEE SHEET A105 FOR CRITICAL AREAS PLAN AND PLANTING PLAN.
- CONTINUOUS SPECIAL INSPECTIONS BY GEOTECHNICAL ENGINEER DURING EXCAVATION AND SHORING INSTALLATION SHALL BE PROVIDED.

GENERAL PLAN NOTES:

- ALL DIMENSIONS AT EXTERIOR WALLS TO FACE OF FRAMING AT EXT. FACE OF WALL AND TO FACE OF FRAMING AT INTERIOR WALLS.
- ALL DIMENSIONS AT INTERIOR WALLS ARE TO FACE OF FRAMING.
- ALL DIMENSIONS AT KITCHEN TO EDGE OF COUNTERTOPS, U.N.O.

PER MICR 19.02.020(F)(3)(D), THE PROJECT SHALL REMOVE JAPANESE KNOTWEED (POLYGONUM CUSPIDATUM) AND REGULATED CLASS A WEEDS IDENTIFIED ON THE KING COUNTY NOXIOUS WEED LIST, AS AMENDED, FROM REQUIRED LANDSCAPING AREAS ESTABLISHED PURSUANT TO SUBSECTION (F)(3)(A) OF THIS SECTION. NEW LANDSCAPING ASSOCIATED WITH NEW SINGLE-FAMILY HOME SHALL NOT INCORPORATE ANY WEEDS IDENTIFIED ON THE KING COUNTY NOXIOUS WEED LIST, AS AMENDED. PROVIDED, THAT REMOVAL SHALL NOT BE REQUIRED IF THE REMOVAL WILL RESULT IN INCREASED SLOPE INSTABILITY OR RISK OF LANDSLIDE OR EROSION.

CONTOUR MAJOR
CONTOUR MINOR
PROPERTY LINE
SETBACK
BUILDING FOOTPRINT
PAVING/HARDSCAPE/DECK
ROOF OVERHANG

(E) TREE TO REMAIN
(N) TREE
(E) TREE TO BE DEMOLISHED

SHARED DRIVEWAY
15' PUBLIC WATER EASEMENT
PRIVATE UTILITY AND DRAINAGE EASEMENT (TO BE FIELD LOCATED PRIOR TO WALL CONSTRUCTION)
PORTION OF LOT COVERED BY SHARED DRIVEWAY

PORTION OF (N) DRIVEWAY
(E) DRIVEWAY TO REMAIN
PORTION OF SHARED DRIVEWAY DESIGNATED AS APPROVED FIRE DEPARTMENT TURNAROUND PER APPROVED SHORT PLAT

SCOPE OF CHANGES:

- UPDATES TO GFA, LOT COVERAGE & HARDSCAPE CALCS
- REDUCTION OF MOTORCOURT PAVING.

GENERAL INFORMATION

PROJECT ADDRESS 6143 W MERCER WAY
MERCER ISLAND, WA 98040

PROJECT NUMBER 2011-147

ASSESSOR'S PARCEL # 335850-0387

LEGAL DESCRIPTION HILLMANS CD SEA SHORE LAKE FRONT 'LOT 2' MERCER ISLAND SHORT PLAT NO SUB9706-005 REC NUMBER 2004061790002 2D SHORT PLAT DAF - LOT A OF MERCER ISLAND LOT LINE REVISION NO MI-90-05-09 (J.3) REC NO 9007109002 BEING A POR OF TRACTS 5-486-487-488-489-490-576-577 & 578 IN CD HILLMAN'S SEA SHORE LAKE FRONT GARDEN OF EDEN ADDITION TO THE CITY OF SEATTLE

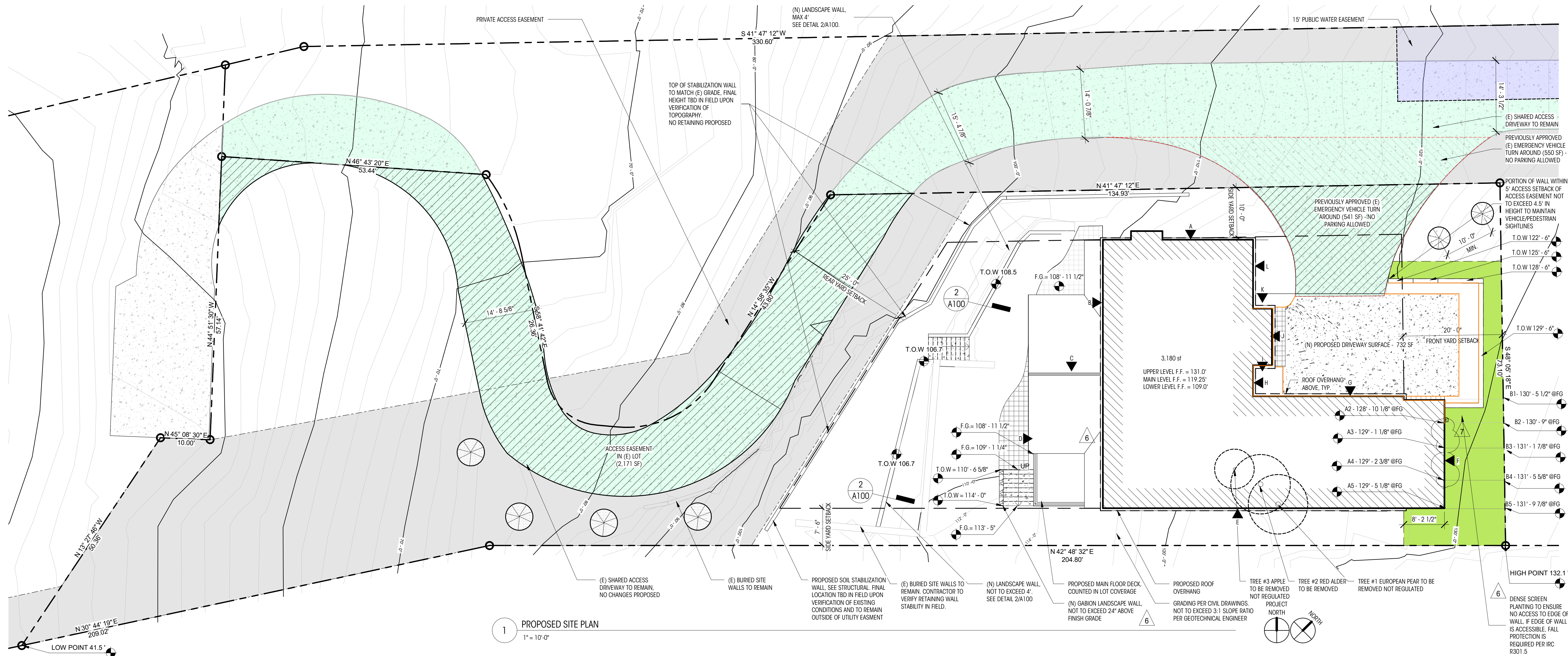
PROJECT DESCRIPTION NEW CONSTRUCTION OF A SINGLE FAMILY HOUSE

ZONE R-15

BUILDING TYPE SINGLE FAMILY RESIDENCE

LANDSCAPE GABION WALL: NON-SETTLEMENT SENSITIVE LOCATIONS ONLY

2
1/2" = 1'-0"





1 PROPOSED SITE PLAN
1" = 10'-0"

NO.	DESCRIPTION	DATE
3	PERMIT REVISION 1	04.19.22
4	REV 1 SUB 2	06.10.22
5	REV 1 SUB 3	08.30.22
6	PERMIT REVISION 2	07.06.23
7	PERMIT REV. 2 SUB 2	11.07.23

SCOPE OF CHANGES:

****NO CHANGES TO THIS SHEET****

BUILDING PAD & SETBACK LEGEND

-  CONTOUR MAJOR
-  CONTOUR MINOR
-  PROPERTY LINE
-  SETBACK LINE
-  PREVIOUSLY APPROVED BUILDING PAD - TO BE ABANDONED
-  PROPOSED BUILDING PAD
-  APPROVED FIRE DEPARTMENT TURNAROUND
-  SHARED DRIVEWAY, COUNTED TOWARD LOT COVERAGE
-  15' PUBLIC WATER EASEMENT
-  PRIVATE UTILITY AND DRAINAGE EASEMENT

PROJECT DATA

EXISTING LOT AREA SUMMARY	
GROSS LOT AREA	17,955 SF
ACCESS EASEMENTS	2,711 SF
NET LOT AREA	15,244 SF
LOT SLOPE	90.6' / 301.2' = 30.08%

TREE REMOVAL	
(E) REGULATED TREES TO BE REMOVED	1
(N) TREES TO BE PLANTED AS REPLACEMENT	2

LOT COVERAGE	
BUILDING ROOF, GARAGE, COVERED DECK	3,299 SF
(E) FIRE DEPT PAVING	541 SF
(N) DRIVEWAY/PARKING	732 SF
TOTAL LOT COVERAGE	4,572 SF = 29.99% OF NET LOT AREA
ALLOWABLE LOT COVERAGE = 30%	15,244 X 0.3 = 4,573 SF

SETBACKS	
SIDE YARD	VARIABLE MINIMUM 7'-0"
FRONT YARD	20'
REAR YARD	25'

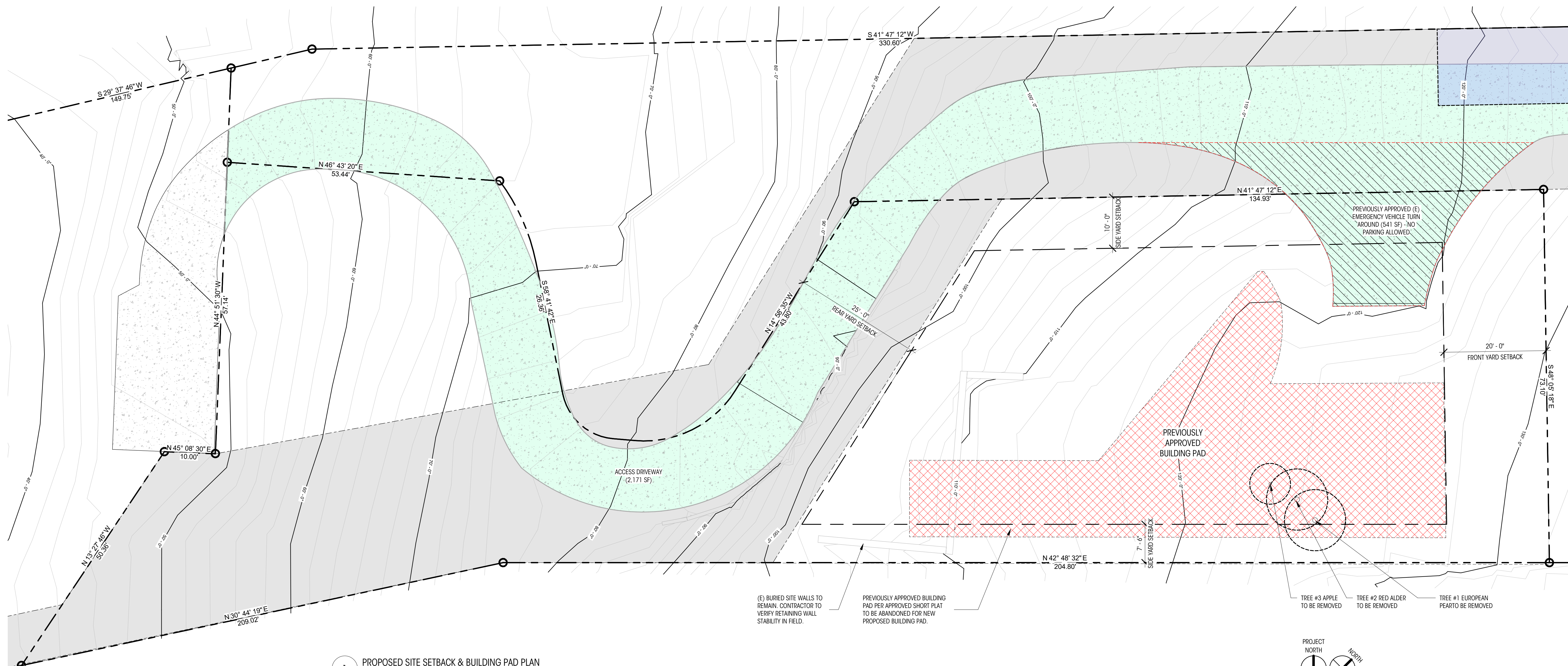
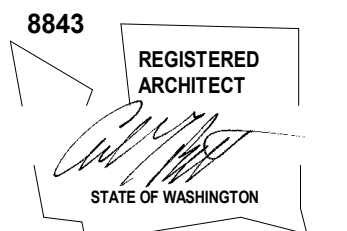
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1 PROPOSED SITE SETBACK & BUILDING PAD PLAN
1" = 10'-0"

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PERMIT DRAWINGS

DATE: 06.10.22

SHEET SIZE: D (24X36)

REVISIONS

NO. DESCRIPTION DATE

DRAWN BY: KJ/JM

CHECKED BY: BM

BUILDING PAD PLAN

SCALE: As indicated

A101

DEDICATED
APPROVAL
STAMP SPACE

SCOPE OF CHANGES:

****NO CHANGES TO THIS SHEET****

CONSTRUCTION MONITORING NOTES

MONITOR ADJACENT BLDG. FOR SETTLEMENT. START MONITORING PRIOR TO DEMOLITION WEEKLY UNTIL PILE DRIVING IS COMPLETE. LEVELS TO BE MEASURED BY PROJECT SURVEYOR. CONTINUOUS SPECIAL INSPECTION BY THE GEOTECHNICAL ENGINEER DURING EXCAVATION AND SHORING INSTALLATION SHALL BE PROVIDED.

EXCAVATION PLAN

	CONTOUR MAJOR
	CONTOUR MINOR
	EXTENT OF FOUNDATION EXCAVATION
	APPROVED FIRE DEPARTMENT TURNAROUND
	SHARED DRIVEWAY EASEMENT
	EXTENT OF PROPOSED GRADING
	DRILLED PILE FOR PERMANENT SHORING PER STRUCTURAL/GEOTECH
	DRILLED PILE FOR FOUNDATION PER STRUCTURAL/GEOTECH

CONSTRUCTION

1. REMOVE TREES
2. DRILL/INSTALL SHORING PILES FOR STABILIZATION WALL
3. EXCAVATE REMAINING SITE
4. SCRAPE BUILDING PAD
5. FOUNDATION FORMWORK
6. FOUNDATION INSTALL
7. RETAINING WALL FORMWORK
8. DRAIN MAT INSTALL & TRENCHING FOR DRAINAGE AND UTILITIES
9. NON-STRUCTURAL RAT-SLAB INSTALL
10. FORM PARKING PAD FOUNDATION
11. POUR PARKING PAD FOUNDATIONS
12. FORM PARKING PAD RETAINING WALLS
13. FORM PARKING PAD & GARAGE SLAB
14. POUR PARKING/GARAGE SLABS
15. FINAL ROUGH GRADING
16. FRAMING

NOTE: NO SOIL, WATER, OR DEBRIS FROM SITE ACTIVITIES WILL BE ALLOWED TO BE PLACED OR DISCHARGED ON THE SLOPE.

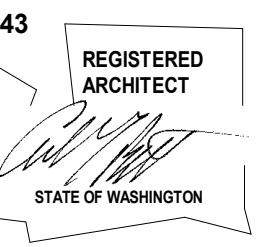
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REVISIONS

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DRAWN BY: K/JM

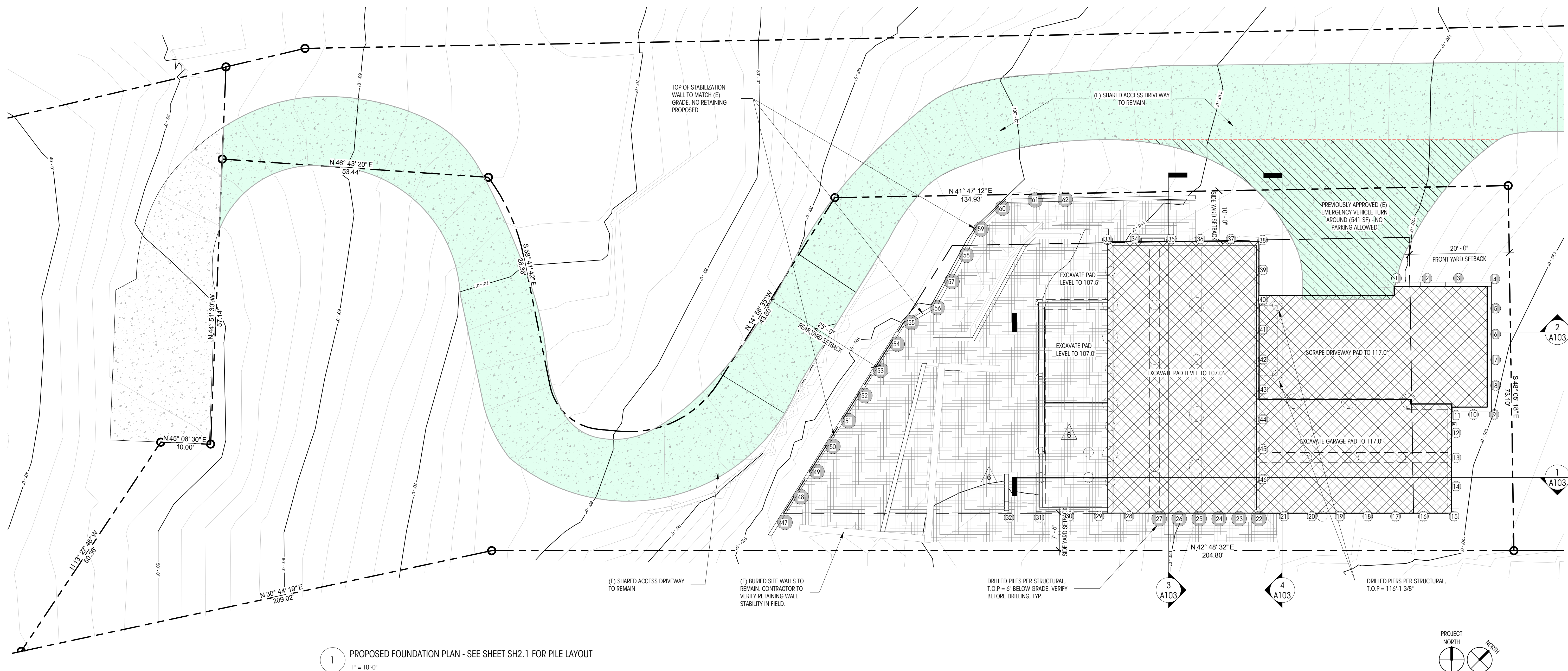
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EXCAVATION PLAN

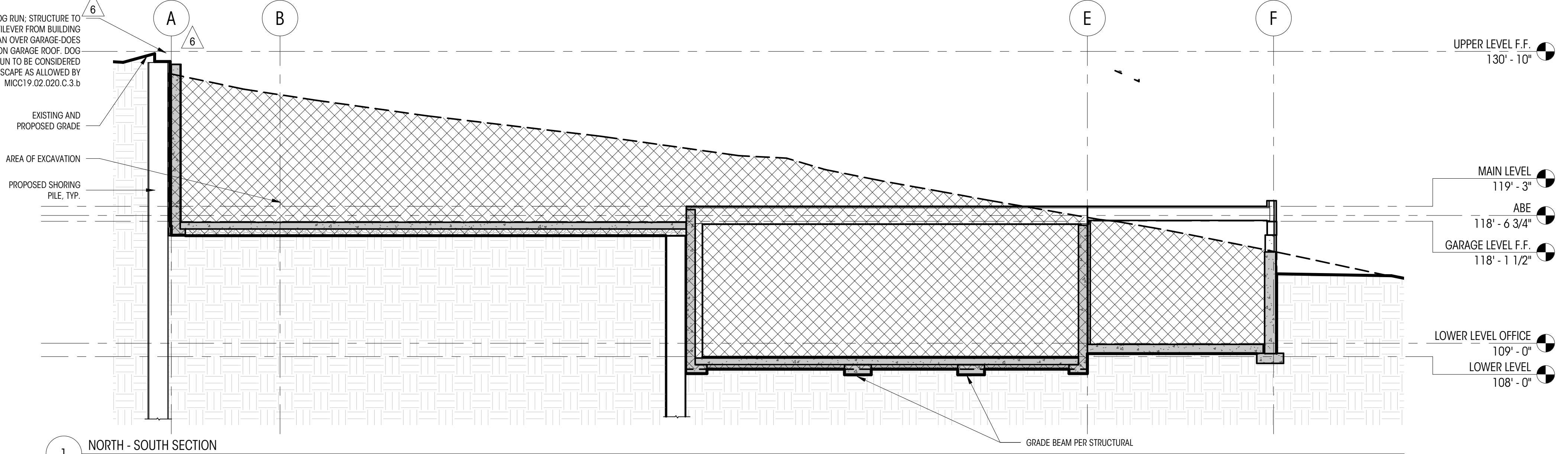
SCALE: As indicated

A102

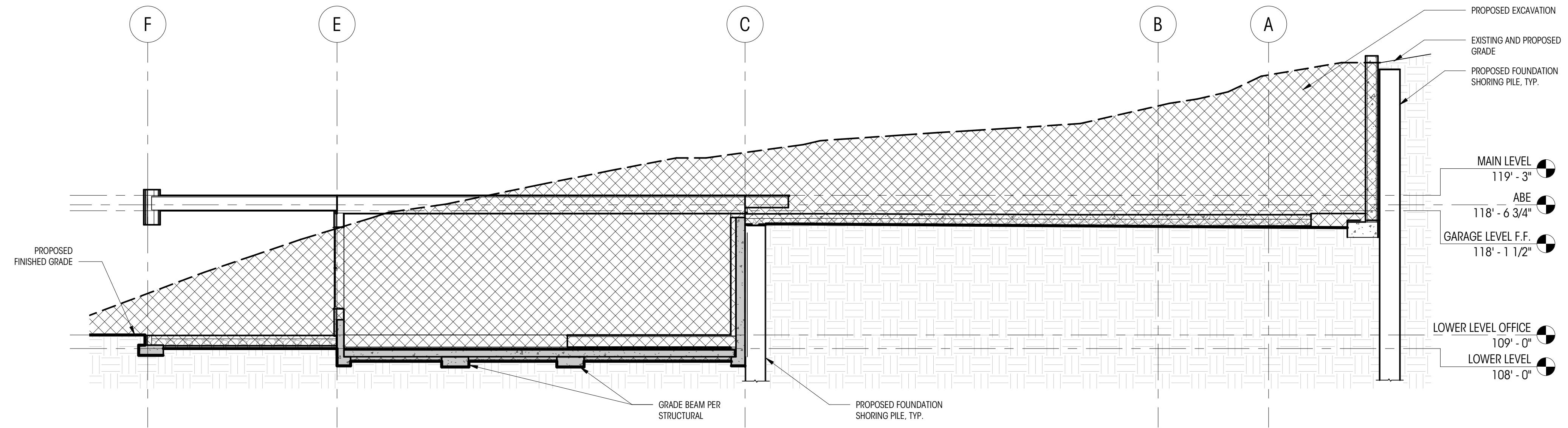
DEDICATED
APPROVAL
STAMP SPACE



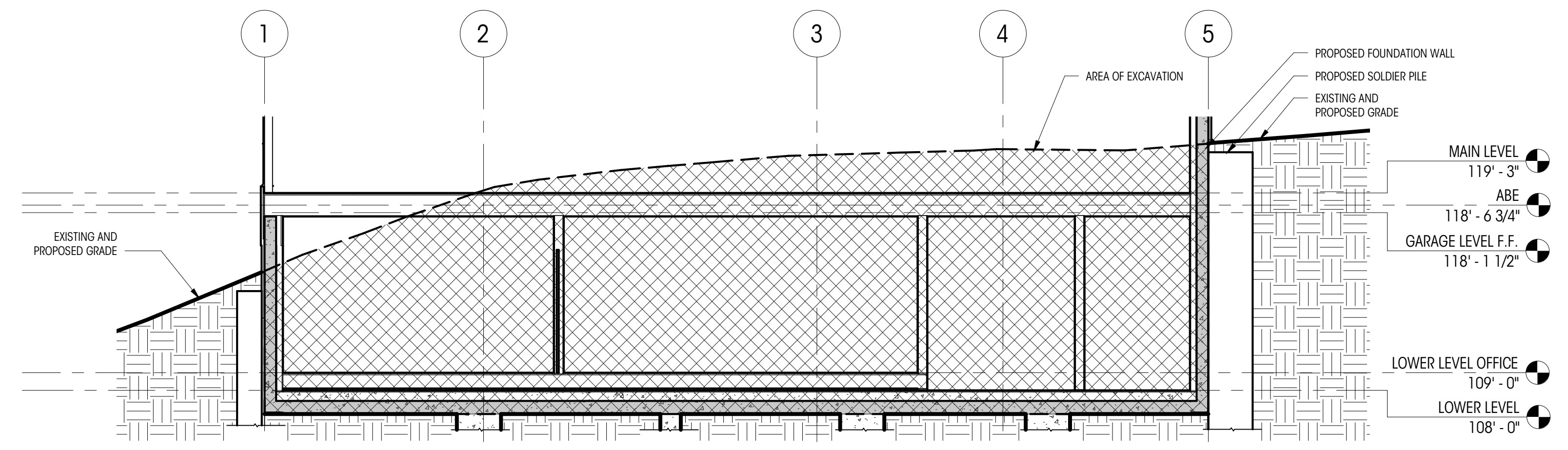
DOG RUN: STRUCTURE TO CANTILEVER FROM BUILDING FACE/SPAN OVER GARAGE-DOES NOT SIT ON GARAGE ROOF-DOG-RUN TO BE CONSIDERED HARDSCAPE AS ALLOWED BY MICC19.02.020.C.3.b



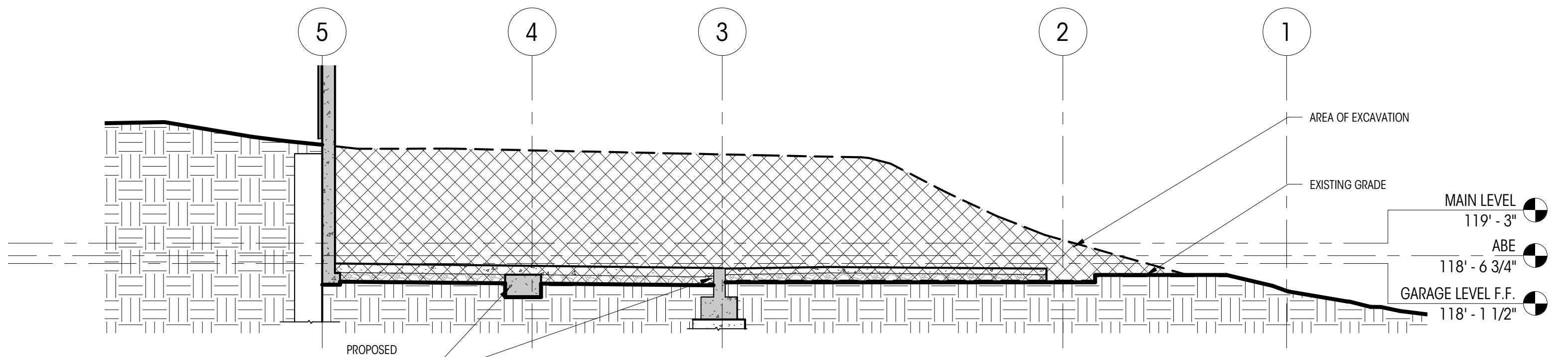
1 NORTH - SOUTH SECTION
3/16" = 1'-0"



2 EAST - WEST SECTION
3/16" = 1'-0"



3 NORTH - SOUTH SECTION
3/16" = 1'-0"

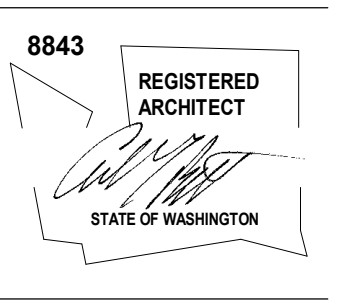


4 EAST - WEST SECTION
3/16" = 1'-0"

SITE EXCAVATION LEGEND

	PROPOSED GRADE
	(E) GRADE
	ALTERED (E) GRADE
	PROPOSED FOUNDATION
	GRADE BEAM, PER STRUCTURAL
	FILL
	PROPOSED EXCAVATION
	EXISTING GRADE

SCOPE OF CHANGES:
NO CHANGES TO THIS SHEET



REVISIONS

NO.	DESCRIPTION	DATE
3	PERMIT REVISION 1	04.19.22
6	PERMIT REVISION 2	07.06.23

SCOPE OF CHANGES:

- DENSE SCREEN PLANTING GRAPHIC ADDED BACK IN

CRITICAL AREA LEGEND

- STEEP SLOPE AREA
- PROPERTY SETBACK
- BUILDING FOOTPRINT
- APPROVED FIRE DEPARTMENT TURNAROUND
- LANDSCAPE WALL, 4' MAX.
- LANDSCAPING
- DENSE SCREEN PLANTING
- MOTORCOURT PLANTING STRIP

SLOPE STABILIZATION PLANTING PLAN LEGEND

VEGETATION	SPECIES COMMON NAME	SPECIES LATIN NAME
ED	EDDIES WHITE WONDER DOGWOOD	<i>Cornus Nuttallii x Florida</i>
JS	JAPANESE SNOWBELL	<i>Styrax Japonicus</i>
LF	LADY FERN	<i>Athyrium Filix-Femina</i>

VEGETATION	SPECIES COMMON NAME	SPECIES LATIN NAME
SAL	SALAL	<i>Guayulea Shallon</i>
DF	DEER FERN	<i>Blechnum Spicant</i>
OF	OAK FERN	<i>Gymnocarpium Dryopteris</i>
EH	EVERGREEN HUCKLEBERRY	<i>Vaccinium Ovatum</i>

NOTES

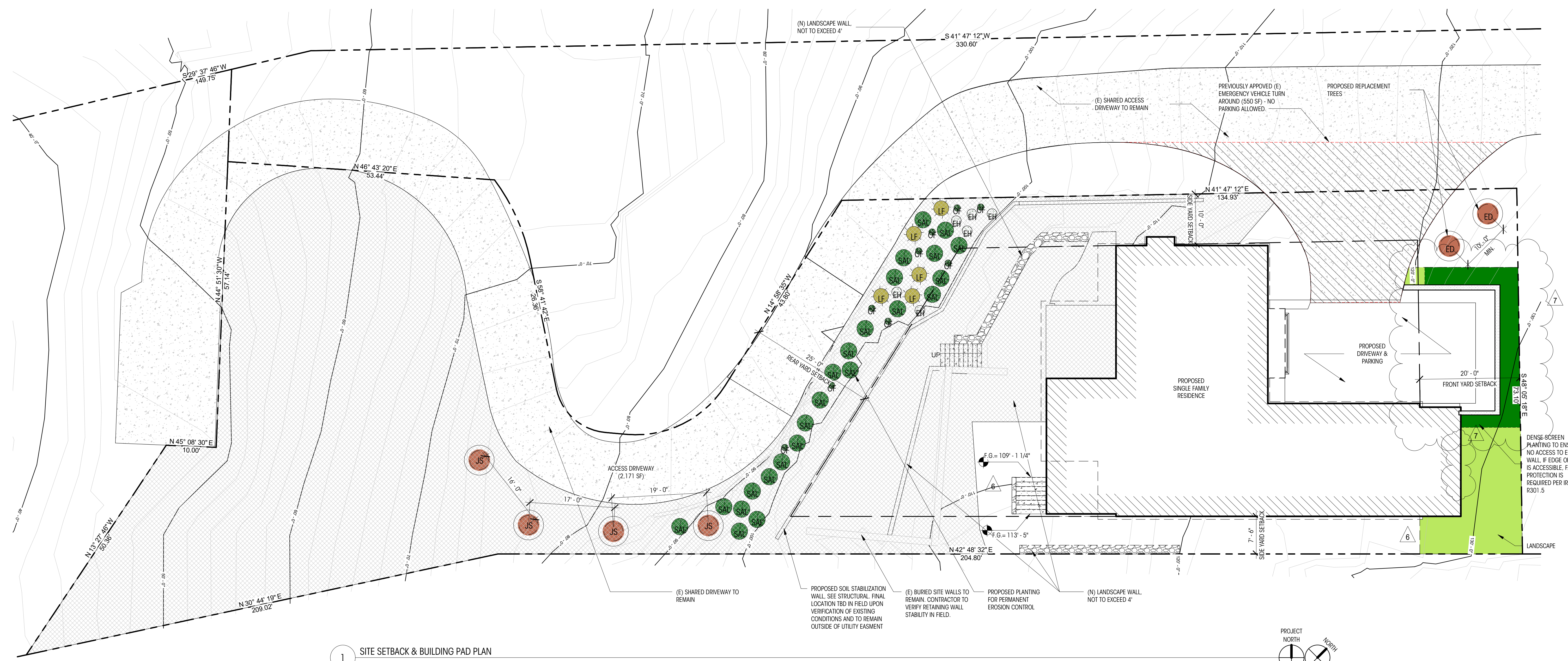
PER MIC 19.02.020(F)(3)(D), THE PROJECT SHALL REMOVE JAPANESE KNOTWEED (POLYGONUM CUSPIDATUM) AND REGULATED CLASS A, REGULATED CLASS B, AND REGULATED CLASS C WEEDS IDENTIFIED ON THE KING COUNTY NOXIOUS WEED LIST, AS AMENDED, FROM REQUIRED LANDSCAPING AREAS ESTABLISHED PURSUANT TO SUBSECTION (F)(3)(A) OF THIS SECTION. NEW LANDSCAPING ASSOCIATED WITH NEW SINGLE-FAMILY HOME SHALL NOT INCORPORATE ANY WEEDS IDENTIFIED ON THE KING COUNTY NOXIOUS WEED LIST, AS AMENDED, PROVIDED THAT REMOVAL SHALL NOT BE REQUIRED IF THE REMOVAL WILL RESULT IN INCREASED SLOPE INSTABILITY OR RISK OF LANDSLIDE OR EROSION.

Brandt
Design Group

66 Bell Street
Unit 1
Seattle, WA
98121

206.239.0850
brandtdesigninc.com

8843 REGISTERED ARCHITECT



1 SITE SETBACK & BUILDING PAD PLAN
1" = 10'-0"

CLARKSON RESIDENCE
81.63 WEST MERCER WAY
MERCER ISLAND, WA 98040
© COPYRIGHT 2022 BRANDT DESIGN, INC. SEATTLE, WA

PERMIT DRAWINGS

DATE: 06.10.22
SHEET SIZE: D (24X36)

REVISIONS

NO.	DESCRIPTION	DATE
3	PERMIT REVISION 1	04.19.22
4	REV 1 SUB 2	06.10.22
5	REV 1 SUB 3	08.30.22
6	PERMIT REVISION 2	07.06.23
7	PERMIT REV. 2 SUB 2	11.07.23

DRAWN BY: K/J/M
CHECKED BY: BM

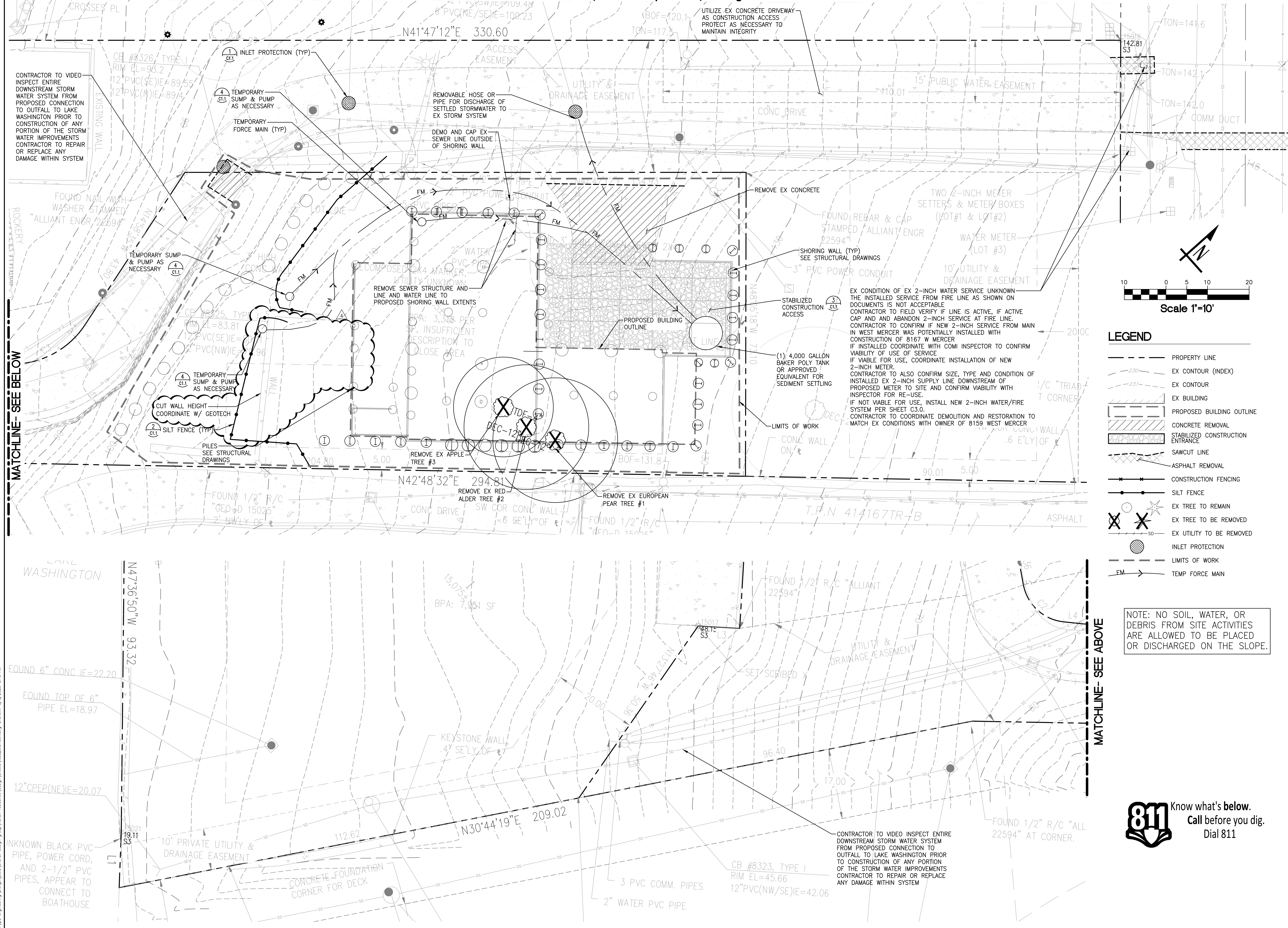
CRITICAL AREA & TREE PLAN

SCALE: As indicated

A105

DEDICATED APPROVAL STAMP SPACE

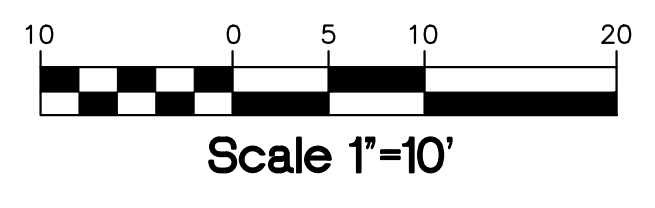
Section 36, Township 24N, Range 4E W.M.



CONTRACTOR TO VIDEO INSPECT ENTIRE DOWNSTREAM STORM WATER SYSTEM FROM PROPOSED CONNECTION TO OUTFALL TO LAKE WASHINGTON PRIOR TO CONSTRUCTION OF ANY PORTION OF THE STORM WATER IMPROVEMENTS CONTRACTOR TO REPAIR OR REPLACE ANY DAMAGE WITHIN SYSTEM

UTILIZE EX CONCRETE DRIVEWAY AS CONSTRUCTION ACCESS PROTECT AS NECESSARY TO MAINTAIN INTEGRITY

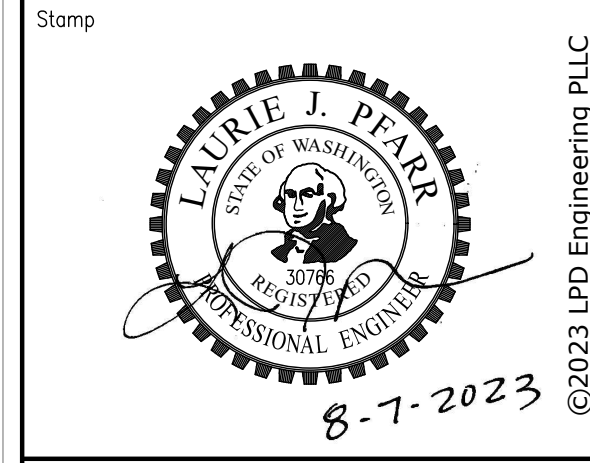
EX CONDITION OF EX 2-INCH WATER SERVICE UNKNOWN THE INSTALLED SERVICE FROM FIRE LINE AS SHOWN ON DOCUMENTS IS NOT ACCEPTABLE CONTRACTOR TO FIELD VERIFY IF LINE IS ACTIVE, IF ACTIVE CAP AND ABANDON 2-INCH SERVICE AT FIRE LINE. CONTRACTOR TO CONFIRM IF NEW 2-INCH SERVICE FROM MAIN IN WEST MERCER WAS POTENTIALLY INSTALLED WITH CONSTRUCTION OF 8167 W MERCER IF INSTALLED COORDINATE WITH COMI INSPECTOR TO CONFIRM VIABILITY OF USE OF SERVICE IF VIABLE FOR USE, COORDINATE INSTALLATION OF NEW 2-INCH METER. CONTRACTOR TO ALSO CONFIRM SIZE, TYPE AND CONDITION OF INSTALLED EX 2-INCH SUPPLY LINE DOWNSTREAM OF PROPOSED METER TO SITE AND CONFIRM VIABILITY WITH INSPECTOR FOR RE-USE. IF NOT VIABLE FOR USE, INSTALL NEW 2-INCH WATER/FIRE SYSTEM PER SHEET C3.0. CONTRACTOR TO COORDINATE DEMOLITION AND RESTORATION TO MATCH EX CONDITIONS WITH OWNER OF 8151 WEST MERCER



LEGEND

- PROPERTY LINE
- - - EX CONTOUR (INDEX)
- - - EX CONTOUR
- ▭ EX BUILDING
- ▭ PROPOSED BUILDING OUTLINE
- ▭ CONCRETE REMOVAL
- ▭ STABILIZED CONSTRUCTION ENTRANCE
- ▭ SAWCUT LINE
- ▭ ASPHALT REMOVAL
- CONSTRUCTION FENCING
- SILT FENCE
- ⊗ EX TREE TO REMAIN
- ⊗ EX TREE TO BE REMOVED
- ⊗ EX UTILITY TO BE REMOVED
- INLET PROTECTION
- LIMITS OF WORK
- FM --- TEMP FORCE MAIN

NOTE: NO SOIL, WATER, OR DEBRIS FROM SITE ACTIVITIES ARE ALLOWED TO BE PLACED OR DISCHARGED ON THE SLOPE.



No.	Revisions	Date
1	PERMIT REVISIONS	04/20/2022
2	PERMIT REVISIONS	06/10/2022
3	FIELD REVISION	10/10/2022
4	PERMIT REVISIONS	07/06/2023

Project Name

**CLARKSON RESIDENCE
8163 W MERCER WAY**

City of Mercer Island, Washington

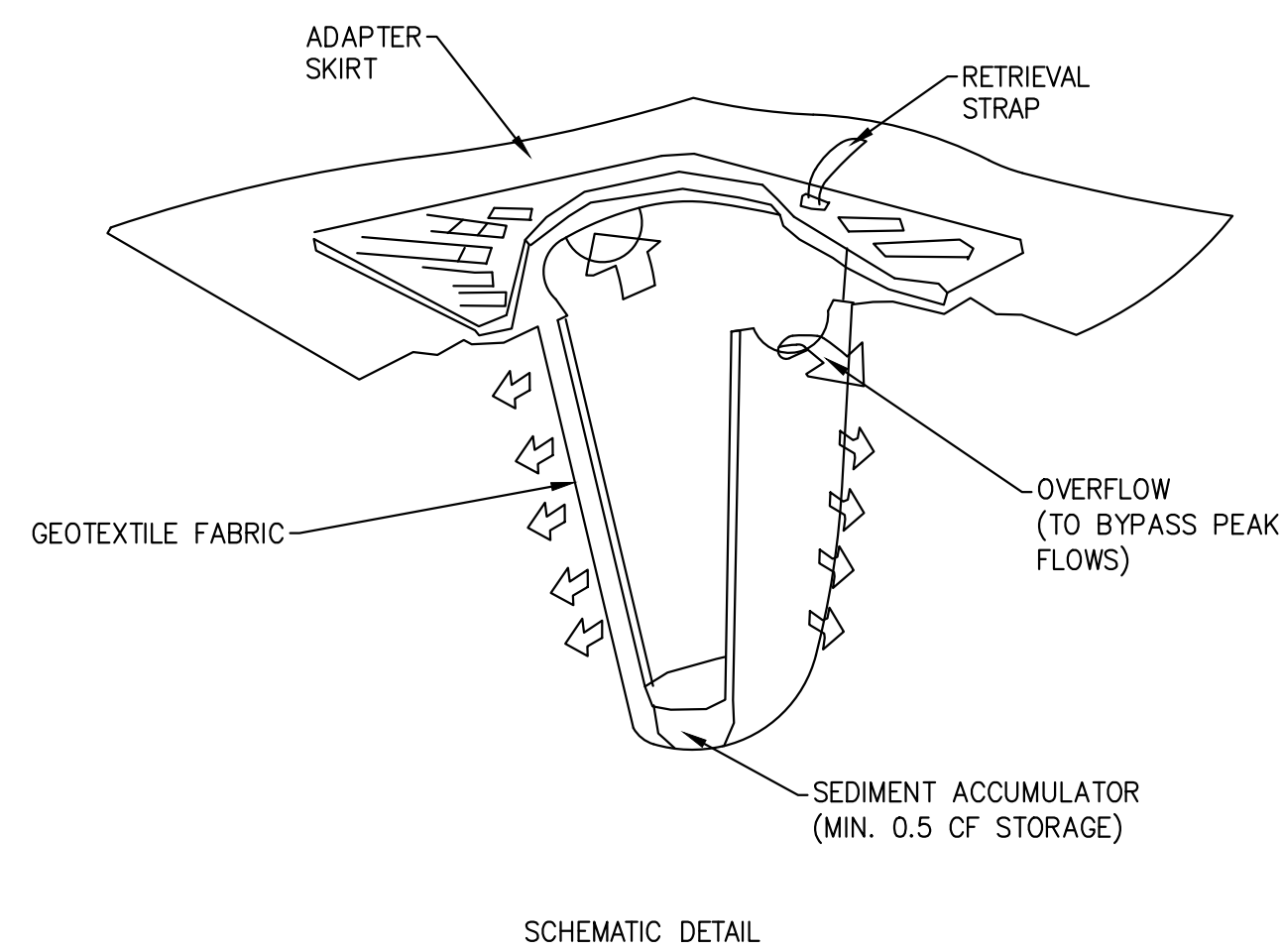
Project No.	272-20-01
Issue Date	04/20/2022
Scale	AS NOTED
Designed	ACW
Drawn	KES

TESC & DEMOLITION PLAN

Sheet **C1.0**

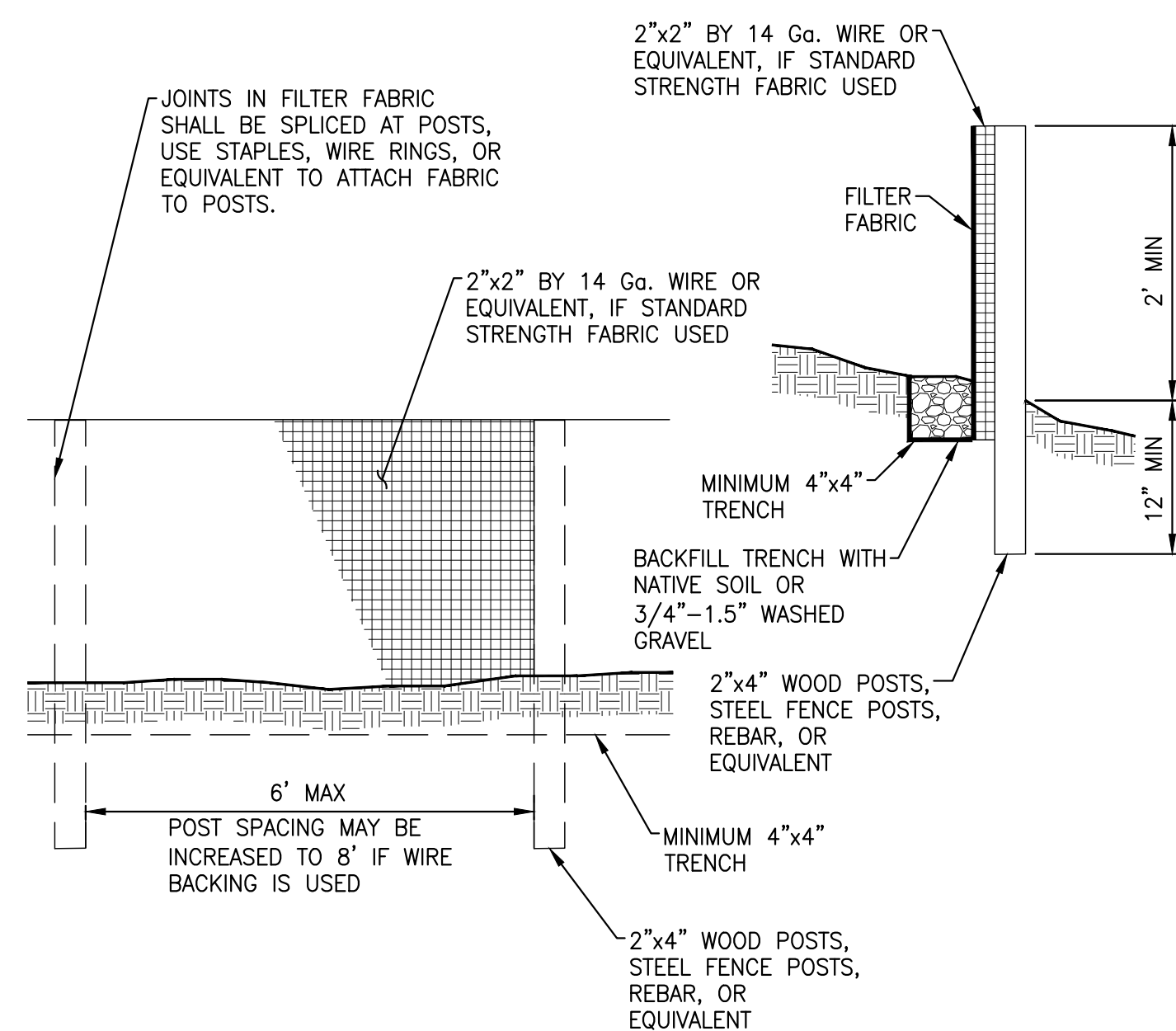
© LPD engineering pllc projects/browns design group/labor residence design/laurie ferr/2023 04/18 AM

PERMIT DOCUMENTS

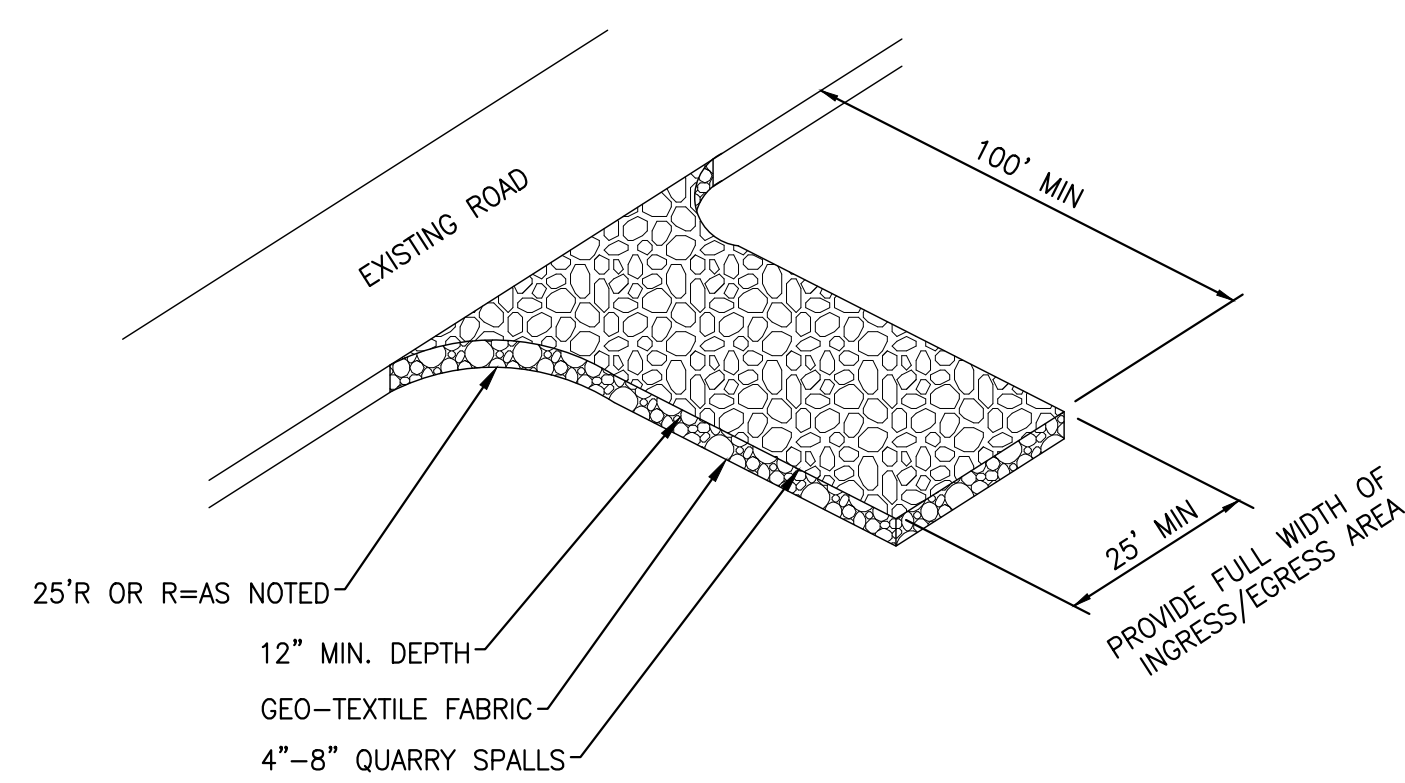


PROVIDE "STREAMGUARD SEDIMENT CATCH BASIN INSERT" OR APPROVED EQUAL MANUFACTURER'S NAME: BOWHEAD ENVIRONMENTAL & SAFETY ADDRESS: P.O. BOX 375 PRESTON, WA 98050 TELEPHONE: FOR INFORMATION: (800) 909-3677 WWW.SHOPBOWHEAD.COM

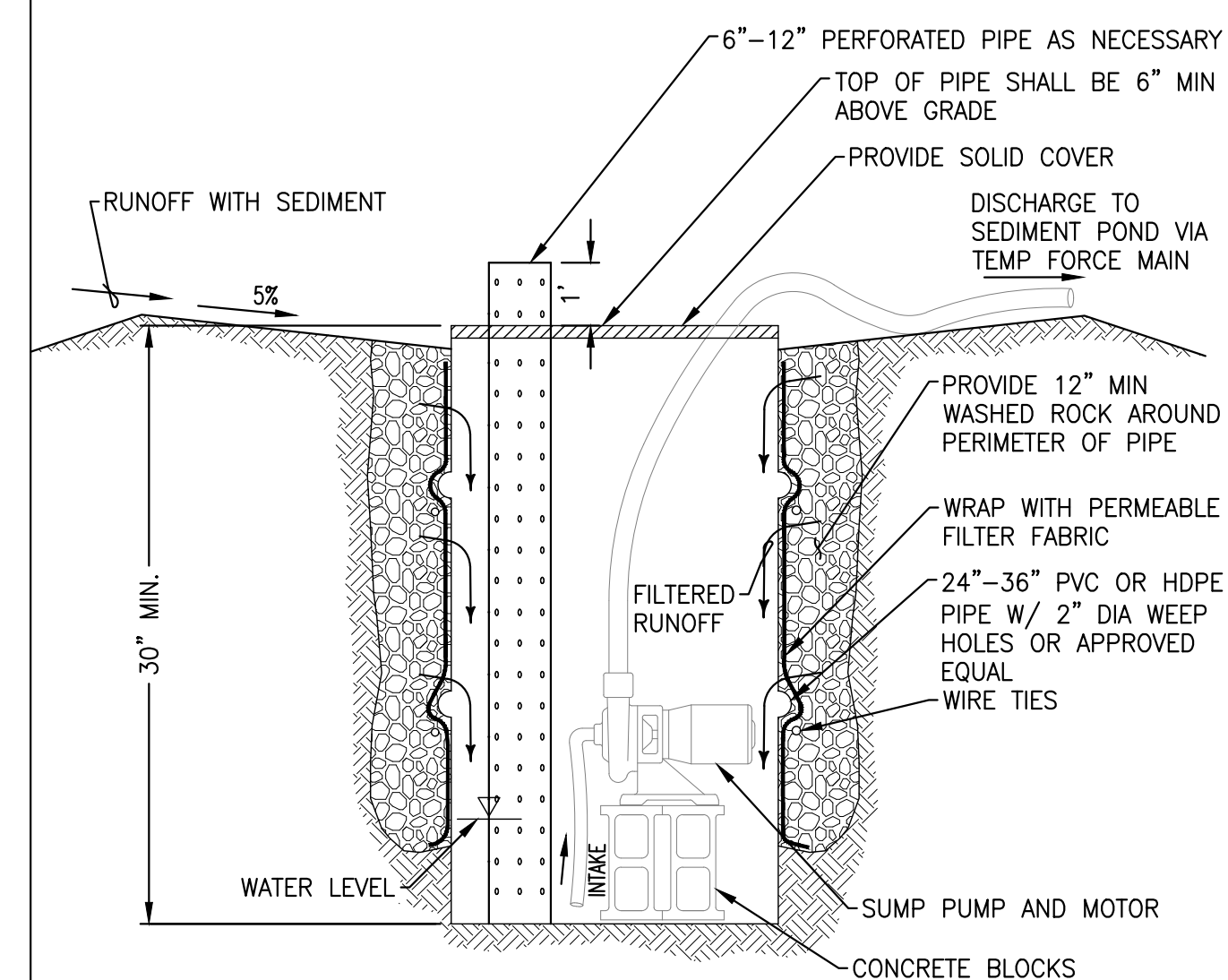
INLET PROTECTION ^{NTS} 1



SILT FENCE ^{NTS} 2



STABILIZED CONSTRUCTION ENTRANCE ^{NTS} 3



TEMPORARY SUMP & PUMP ^{NTS} 4

EROSION AND SEDIMENTATION CONTROL NOTES

- THE IMPLEMENTATION OF THESE EROSION SEDIMENTATION CONTROL (ESC) PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
- THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES IN SUCH A MANNER AS TO INSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS, AND MUST BE COMPLETED PRIOR TO ALL OTHER CONSTRUCTION.
- THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED (E.G. ADDITIONAL SUMPS, RELOCATION OF DITCHES AND SILT FENCES), AS NEEDED FOR UNEXPECTED STORM EVENTS. ADDITIONALLY MORE ESC FACILITIES MAY BE REQUIRED TO ENSURE COMPLETE SILTATION CONTROL. THEREFORE, DURING THE COURSE OF CONSTRUCTION IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY THEIR ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES OVER AND ABOVE THE MINIMUM REQUIREMENTS AS MAY BE NEEDED.
- THE ESC FACILITIES SHALL BE INSPECTED DAILY DURING NON-RAINFALL PERIODS, EVERY HOUR (DAYLIGHT) DURING A RAINFALL EVENT AND AT THE END OF EVERY RAINFALL BY THE PERMIT HOLDER/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. IN ADDITION, TEMP. SILTATION PONDS AND ALL TEMP. SILTATION CONTROLS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND OR CONSTRUCTION IS COMPLETED, PERMANENT DRAINAGE FACILITIES ARE OPERATIONAL, AND THE POTENTIAL FOR EROSION HAS PASSED.
- ANY AREA STRIPPED OF VEGETATION, INCLUDING ROADWAY EMBANKMENTS WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF SEVEN (7) DAYS, SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G. SEEDING, MULCHING, NETTING, EROSION, BLANKETS, ETC.).
- ANY AREAS NEEDING ESC MEASURES, NOT REQUIRING IMMEDIATE ATTENTION, SHALL BE ADDRESSED WITHIN SEVEN (7) DAYS.
- THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A STORM EVENT.
- AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO DOWNSTREAM SYSTEM.
- WHERE SEEDING FOR TEMPORARY EROSION CONTROL IS REQUIRED, FAST GERMINATING GRASSES SHALL BE APPLIED AT AN APPROPRIATE RATE (E.G. ANNUAL OR PERENNIAL RYE APPLIED AT APPROXIMATELY 80 POUNDS PER ACRE).
- WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF THREE INCHES.
- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF MERCER ISLAND STANDARDS AND SPECIFICATIONS.
- EROSION/SEDIMENTATION CONTROL FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS IN DEPARTMENT OF ECOLOGY STORMWATER MANAGEMENT MANUAL, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
- A COPY OF THE APPROVED EROSION CONTROL PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- TEMPORARY EROSION/SEDIMENTATION CONTROLS SHALL BE INSTALLED & OPERATING PRIOR TO ANY GRADING OR LAND CLEARING.
- WHEREVER POSSIBLE, MAINTAIN NATURAL VEGETATION FOR SILT CONTROL.
- ALL CUT AND FILL SLOPES 5:1 (5 FEET HORIZONTAL TO 1 FOOT VERTICAL) OR STEEPER THAT WILL BE LEFT EXPOSED FOR MORE THAN 7 DAYS SHALL BE PROTECTED BY JUTE MATTING, PLASTIC SHEETING, MULCH, OR OTHER APPROVED STABILIZATION METHOD AND PROVIDED WITH ADEQUATE RUNOFF CONVEYANCE TO INTERCEPT RUNOFF AND CONVEY IT TO AN APPROVED STORM DRAIN.
- OFF-SITE STREETS MUST BE KEPT CLEAN AT ALL TIMES. IF DIRT IS DEPOSITED ON THE PUBLIC STREET, THE STREET SHALL BE CLEANED. ALL VEHICLES SHALL LEAVE THE SITE BY WAY OF THE CONSTRUCTION VEHICLE ENTRANCE AND SHALL BE CLEANED OF MUD PRIOR TO EXITING ONTO THE STREET. SILT SHALL BE CLEANED FROM ALL CATCH BASINS WHEN THE BOTTOM HALF BECOMES FILLED WITH SILT.
- ANY CATCH BASIN COLLECTING WATER FROM THE SITE, WHETHER THEY ARE ON OR OFF OF THE SITE, SHALL HAVE THEIR GRATES COVERED WITH FILTER FABRIC DURING CONSTRUCTION.
- IF ANY PORTION OF THE EROSION/SEDIMENTATION CONTROL ELEMENTS ARE DAMAGED OR NOT FUNCTIONING, OR IF THE CLEARING LIMIT BOUNDARY BECOMES NON-DEFINED, IT SHALL BE REPAIRED IMMEDIATELY.

EROSION AND SEDIMENTATION CONTROL NOTES ^{NTS} 9

CITY OF MERCER ISLAND NOTES

- ANY CHANGES TO THE APPROVED PLANS REQUIRES CITY APPROVAL THROUGH A REVISION.
- APPLICANT IS RESPONSIBLE FOR ANY DAMAGES TO UNDERGROUND UTILITIES CAUSED FROM THIS CONSTRUCTION.
- CATCH BASIN FILTERS SHOULD BE PROVIDED FOR ALL STORM DRAIN CATCH BASIN/INLETS DOWNSLOPE AND WITHIN 500 FEET OF THE CONSTRUCTION AREA. CATCH BASIN FILTERS SHOULD BE DESIGNED BY THE MANUFACTURER FOR USE AT CONSTRUCTION SITES AND APPROVED BY THE CITY INSPECTOR. CATCH BASIN FILTERS SHOULD BE INSPECTED FREQUENTLY, ESPECIALLY AFTER STORM EVENTS. IF THE FILTER BECOMES CLOGGED, IT SHOULD BE CLEANED OR REPLACED.
- CONTRACTORS SHALL VERIFY LOCATIONS AND DEPTHS OF UTILITIES.
- AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, CALL "ONE CALL" AT 1.800.425.5555.
- DO NOT BACKFILL WITH NATIVE MATERIAL ON PUBLIC RIGHT-OF-WAY. ALL MATERIAL MUST BE IMPORTED.
- EROSION CONTROL: ALL "LAND DISTURBING ACTIVITY" IS SUBJECT TO PROVISIONS OF MERCER ISLAND ORDINANCE 95C-118 "STORM WATER MANAGEMENT." SPECIFIC ITEMS TO BE FOLLOWED AT YOUR SITE.
- PROTECT ADJACENT PROPERTIES FROM ANY INCREASED RUNOFF OR SEDIMENTATION DUE TO THE CONSTRUCTION PROJECT THROUGH THE USE OF APPROPRIATE "BEST MANAGEMENT PRACTICES" (BMP) EXAMPLES INCLUDE, BUT ARE NOT LIMITED TO, SEDIMENT TRAPS, SEDIMENT PONDS, FILTER FABRIC FENCES, VEGETATIVE BUFFER STRIPS OR BIOENGINEERED SWALES.
- CONSTRUCTION ACCESS TO SITE SHOULD BE LIMITED TO ONE ROUTE. STABILIZE ENTRANCE WITH QUARRY SPALLS TO PREVENT SEDIMENT FROM LEAVING THE SITE OR ENTERING THE STORM DRAINS.
- PREVENT SEDIMENT, CONSTRUCTION DEBRIS, PAINTS, SOLVENTS, ETC., OR OTHER TYPES OF POLLUTION FROM ENTERING PUBLIC STORM DRAINS. KEEP ALL POLLUTION ON YOUR SITE.
- ALL EXPOSED SOILS SHALL REMAIN DENUDED FOR NO LONGER THAN SEVEN (7) DAYS AND SHALL BE STABILIZED WITH MULCH, HAY, OR THE APPROPRIATE GROUND COVER. ALL EXPOSED SOILS SHALL BE COVERED IMMEDIATELY DURING ANY RAIN EVENT.
- INSTALLATION OF CONCRETE DRIVEWAYS, TREES, SHRUBS, IRRIGATION, BOULDERS, BERMS, WALLS, GATES, AND OTHER IMPROVEMENTS ARE NOT ALLOWED IN THE PUBLIC RIGHT-OF-WAY WITHOUT PRIOR APPROVAL, AND AN ENCROACHMENT AGREEMENT AND RIGHT OF WAY PERMIT FROM THE SENIOR DEVELOPMENT ENGINEER.
- OWNER SHALL CONTROL DISCHARGE OF SURFACE DRAINAGE RUNOFF FROM EXISTING AND NEW IMPERVIOUS AREAS IN A RESPONSIBLE MANNER. CONSTRUCTION OF NEW GUTTERS AND DOWNSPOUTS, DRY WELLS, LEVEL SPREADERS OR DOWNSTREAM CONVEYANCE PIPE MAY BE NECESSARY TO MINIMIZE DRAINAGE IMPACT TO YOUR NEIGHBORS. CONSTRUCTION OF MINIMUM DRAINAGE IMPROVEMENTS SHOWN OR CALLED OUT ON THIS PLAN DOES NOT IMPLY RELIEF FROM CIVIL LIABILITY FOR YOUR DOWNSTREAM DRAINAGE.
- POT HOLING THE PUBLIC UTILITIES IS REQUIRED PRIOR TO ANY GRADING ACTIVITIES LESS THAN 6" OVER THE PUBLIC MAINS (WATER, SEWER AND STORM SYSTEMS). IF THERE IS A CONFLICT, THE APPLICANT IS REQUIRED TO SUBMIT A REVISION FOR APPROVAL PRIOR TO ANY GRADING ACTIVITIES OVER THE PUBLIC MAINS.
- REMEMBER: EROSION CONTROL IS YOUR FIRST INSPECTION.
- ROOF DRAINS MUST BE CONNECTED TO THE STORM DRAIN SYSTEM AND INSPECTED BY THE PUBLIC WORKS DEPARTMENT PRIOR TO ANY BACKFILLING OF PIPE.
- SILT FENCE: CLEAN AND PROVIDE REGULAR MAINTENANCE OF THE SILT FENCE. THE FENCE IS TO REMAIN VERTICAL AND IS TO FUNCTION PROPERLY THROUGHOUT THE TERM OF THE PROJECT.
- WORK IN PUBLIC RIGHT OF WAY REQUIRES A RIGHT-OF-WAY USE PERMIT.
- REFER TO WATER SERVICE PERMIT FOR ACTUAL LOCATION OF NEW WATER METER AND SERVICE LINE DETERMINED BY MERCER ISLAND WATER DEPARTMENT.
- THE TV INSPECTION OF THE EXISTING SIDE SEWER TO THE CITY SEWER MAIN IS REQUIRED. IF THE RESULT OF THE TV INSPECTION IS NOT IN SATISFACTORY CONDITION, AS DETERMINED BY THE CITY OF MERCER ISLAND INSPECTOR, THE REPLACEMENT OF THE EXISTING SIDE SEWER IS REQUIRED. ALTERNATELY, A PRESSURE TEST OF THE SIDE SEWER, FROM SEWER MAIN TO POINT OF CONNECTION, MAY BE SUBSTITUTED FOR THE VIDEO INSPECTION.
- NEWLY INSTALLED SIDE SEWER REQUIRES A 4 P.S.I. AIR TEST OR PROVIDE 10' OF HYDROSTATIC HEAD TEST.
- THE LIMITS AND EXTENTS OF THE PAVEMENT IN THE PUBLIC RIGHT OF WAY SHALL BE DETERMINED BY THE CITY ENGINEER PRIOR TO FINALIZING THE PROJECT.
- TREE PROTECTION INSPECTION REQUIRED BEFORE ANY WORK BEGINS, CALL 206-275-7713.

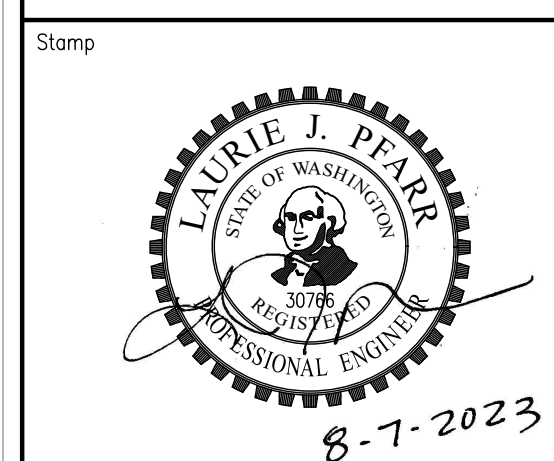
CITY OF MERCER ISLAND NOTES ^{NTS} 10

NOT USED ^{NTS} 7

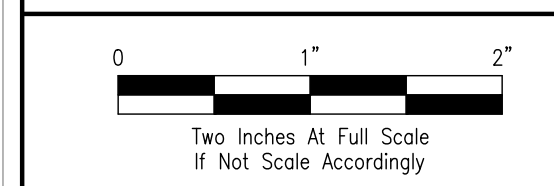
NOT USED ^{NTS} 8

NOT USED ^{NTS} 11

NOT USED ^{NTS} 12



No.	Revisions	Date
1	PERMIT REVISIONS	04/20/2022
2	PERMIT REVISIONS	06/10/2022
3	FIELD REVISION	10/10/2022
4	PERMIT REVISIONS	07/06/2023



Project Name

CLARKSON RESIDENCE
8163 W MERCER WAY
 City of Mercer Island, Washington

Project No. 272-20-01
 Issue Date 04/20/2022
 Scale As Noted
 Designed ACW Checked LJP
 Drawn KES Approved LJP

Description

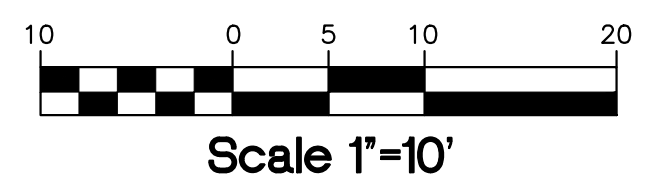
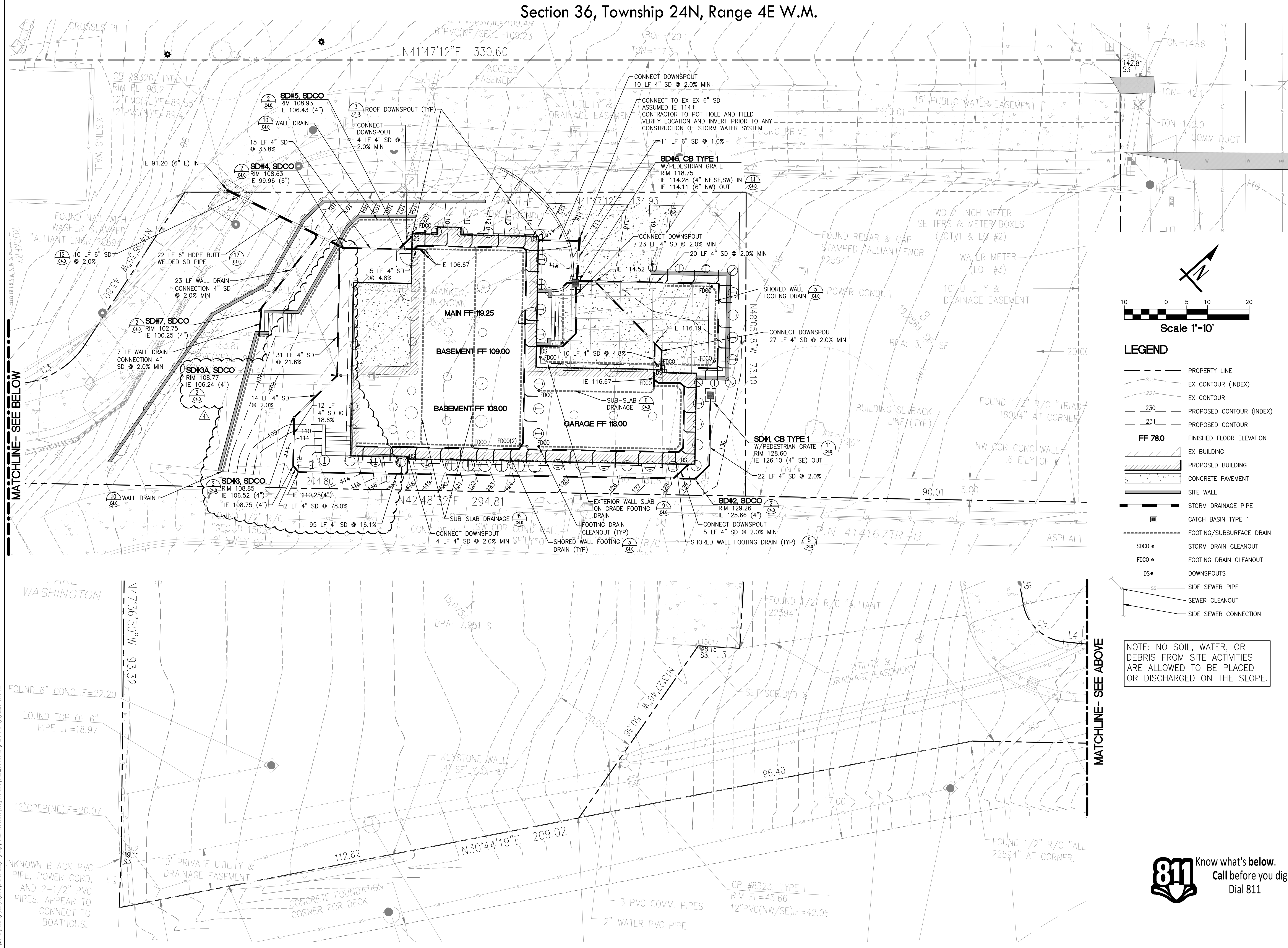
NOTES & TESC DETAILS

Sheet **C1.1**

PERMIT DOCUMENTS

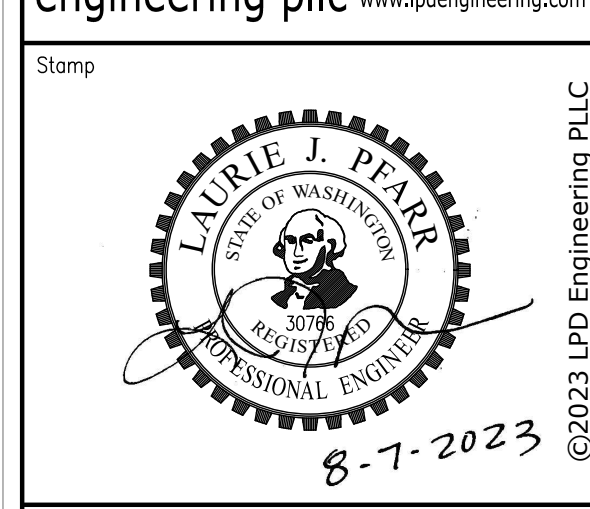
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Section 36, Township 24N, Range 4E W.M.



- LEGEND**
- PROPERTY LINE
 - - - EX CONTOUR (INDEX)
 - - - EX CONTOUR
 - - - PROPOSED CONTOUR (INDEX)
 - - - PROPOSED CONTOUR
 - FF 78.0 FINISHED FLOOR ELEVATION
 - ▨ EX BUILDING
 - ▨ PROPOSED BUILDING
 - ▨ CONCRETE PAVEMENT
 - ▨ SITE WALL
 - STORM DRAINAGE PIPE
 - CATCH BASIN TYPE 1
 - FOOTING/SUBSURFACE DRAIN
 - SDCO • STORM DRAIN CLEANOUT
 - FDCO • FOOTING DRAIN CLEANOUT
 - DS • DOWNSPOUTS
 - SS --- SIDE SEWER PIPE
 - SEWER CLEANOUT
 - SIDE SEWER CONNECTION

NOTE: NO SOIL, WATER, OR DEBRIS FROM SITE ACTIVITIES ARE ALLOWED TO BE PLACED OR DISCHARGED ON THE SLOPE.



No.	Revisions	Date
1	PERMIT REVISIONS	04/20/2022
2	PERMIT REVISIONS	06/10/2022
3	FIELD REVISION	10/10/2022
4	PERMIT REVISIONS	07/06/2023

Project Name

**CLARKSON RESIDENCE
8163 W MERCER WAY**

City of Mercer Island, Washington

Project No.	272-20-01
Issue Date	04/20/2022
Scale	AS NOTED
Designed	ACW
Drawn	KES
Checked	LJP
Approved	LJP

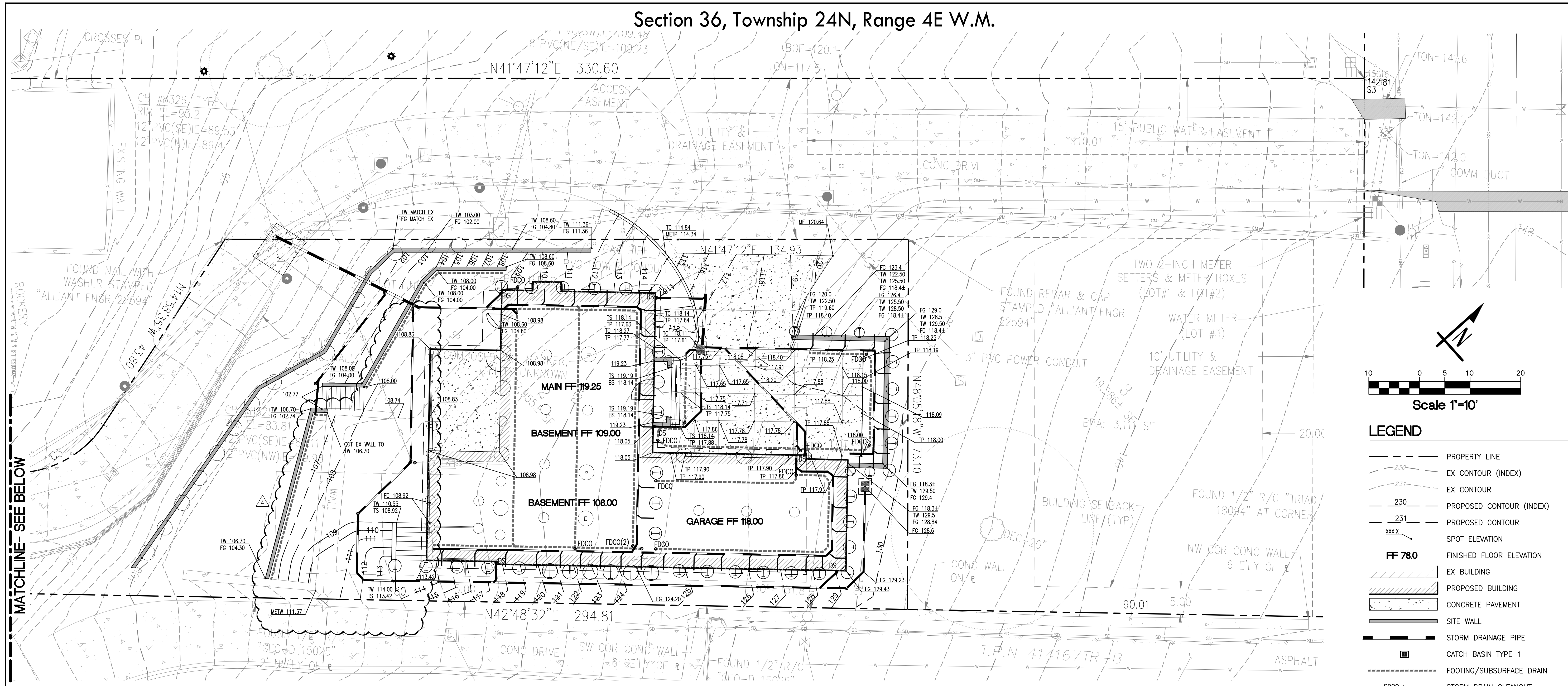
DRAINAGE PLAN

Sheet **C2.0**

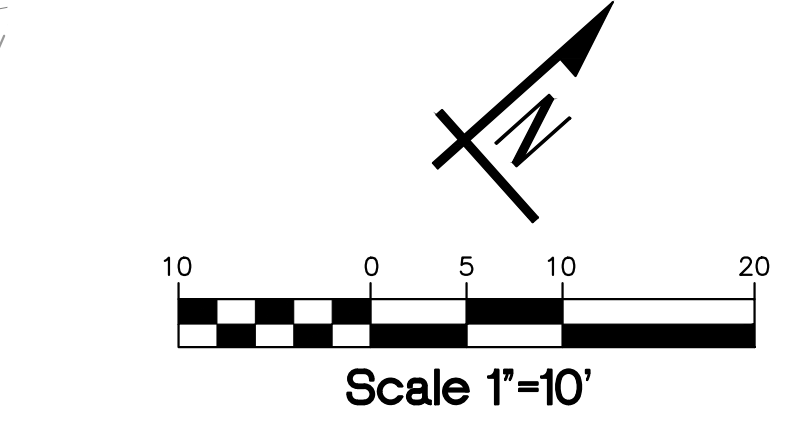


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Section 36, Township 24N, Range 4E W.M.



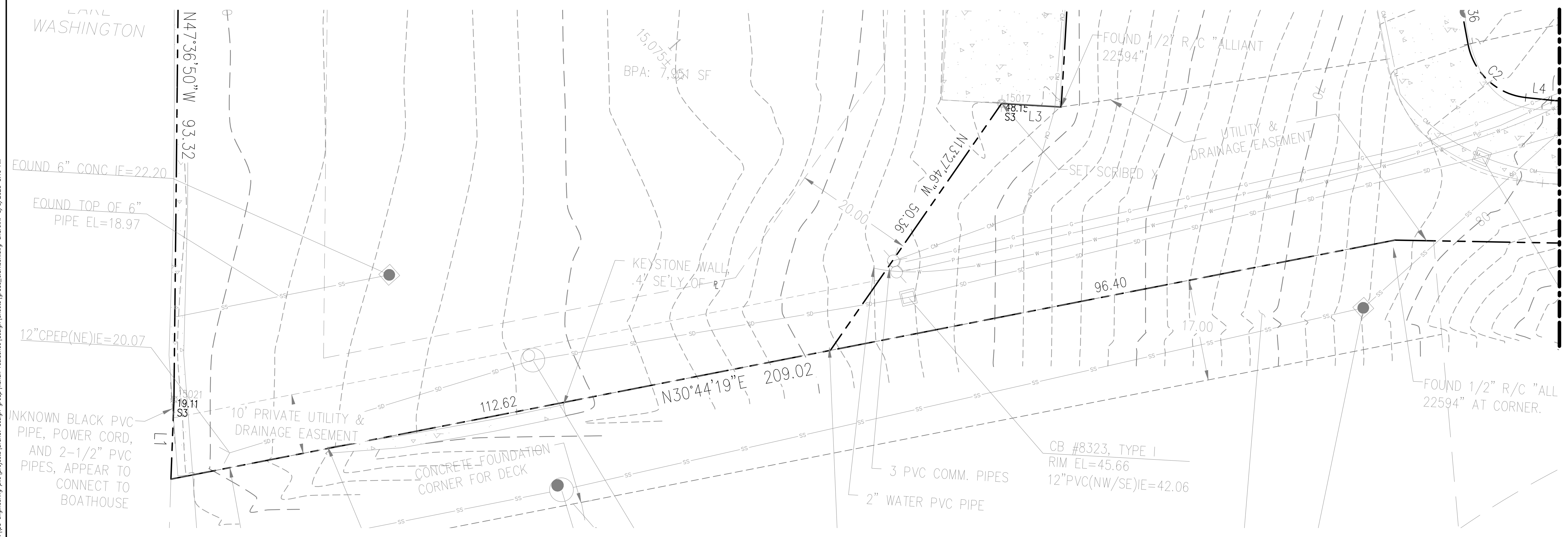
MATCHLINE- SEE BELOW



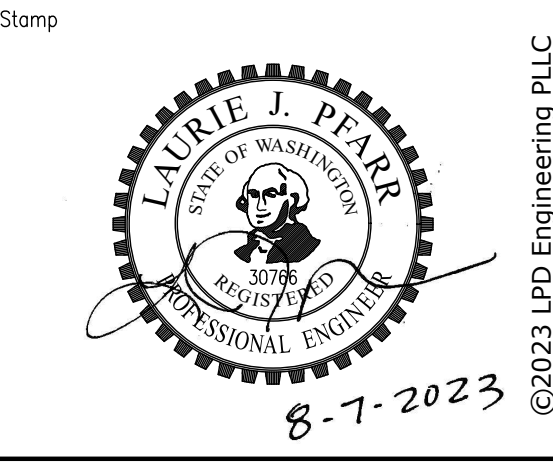
LEGEND

- 230 — PROPERTY LINE
- - - 230 - - - EX CONTOUR (INDEX)
- - - 231 - - - EX CONTOUR
- - - 230 - - - PROPOSED CONTOUR (INDEX)
- - - 231 - - - PROPOSED CONTOUR
- XXX SPOT ELEVATION
- FF 78.0 FINISHED FLOOR ELEVATION
- ▨ EX BUILDING
- ▨ PROPOSED BUILDING
- ▨ CONCRETE PAVEMENT
- ▨ SITE WALL
- — — STORM DRAINAGE PIPE
- ▣ CATCH BASIN TYPE 1
- - - FOOTING/SUBSURFACE DRAIN
- SDCO • STORM DRAIN CLEANOUT
- FDCO • FOOTING DRAIN CLEANOUT
- DS • DOWNSPOUTS
- SS — SIDE SEWER PIPE
- SEWER CLEANOUT
- SIDE SEWER CONNECTION
- FG FINISHED GRADE
- TP TOP OF PAVEMENT
- TW TOP OF WALL
- METP MATCH EXISTING TOP OF PAVEMENT
- METW MATCH EXISTING TOP OF WALL

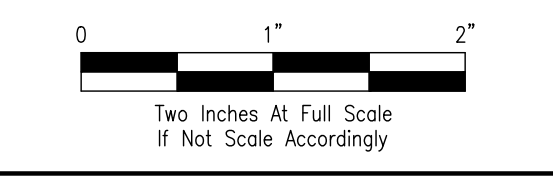
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MATCHLINE- SEE ABOVE



No.	Revisions	Date
1	PERMIT REVISIONS	04/20/2022
2	PERMIT REVISIONS	06/10/2022
3	FIELD REVISION	10/10/2022
4	PERMIT REVISIONS	07/06/2023



Project Name

**CLARKSON RESIDENCE
8163 W MERCER WAY**

City of Mercer Island, Washington

Project No.	272-20-01
Issue Date	04/20/2022
Scale	AS NOTED
Designed	ACW
Drawn	KES
Checked	LJP
Approved	LJP

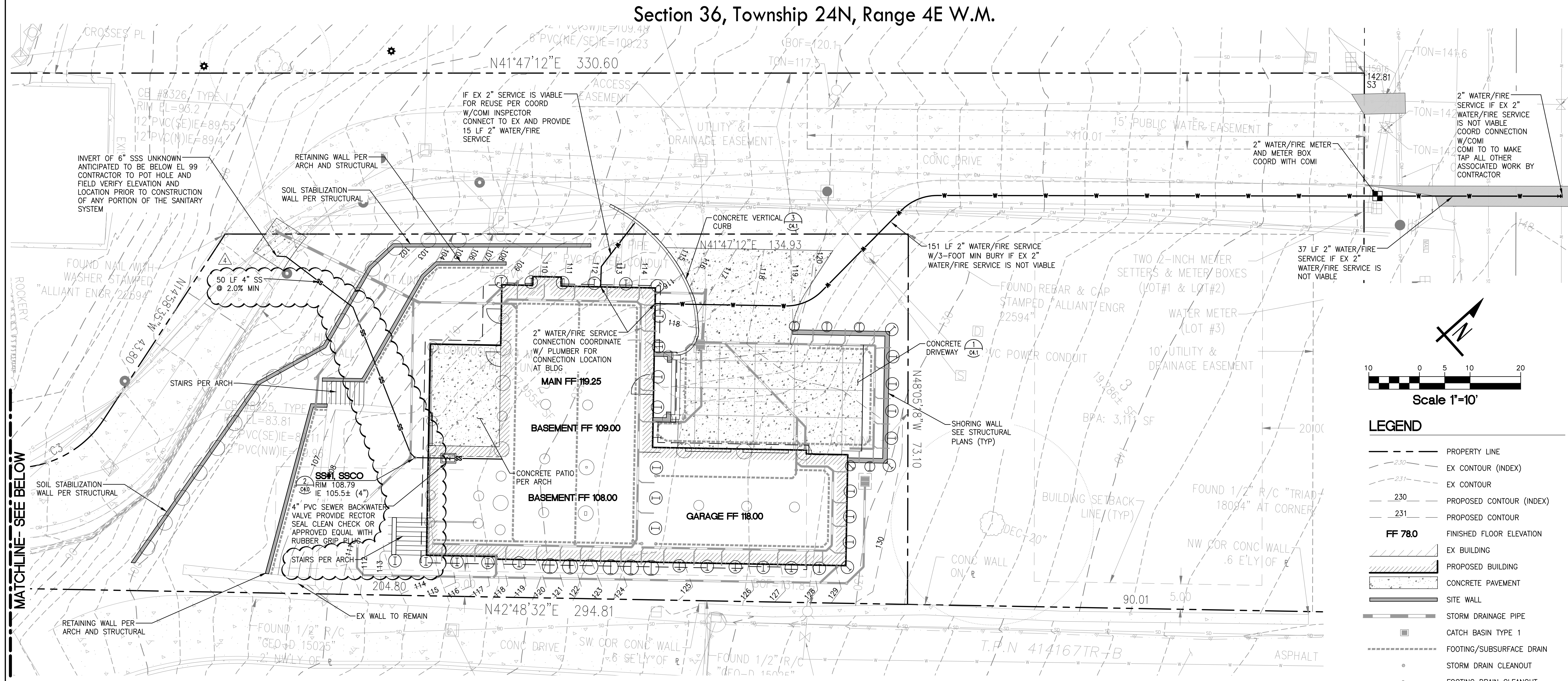
GRADING PLAN

811 Know what's below.
Call before you dig.
Dial 811

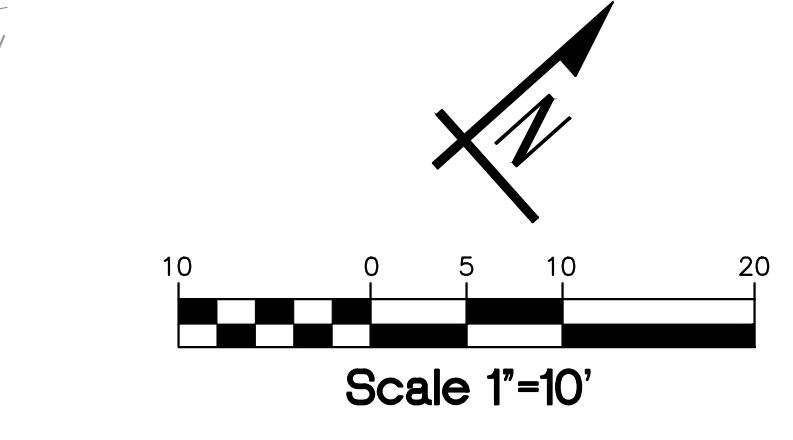
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Section 36, Township 24N, Range 4E W.M.



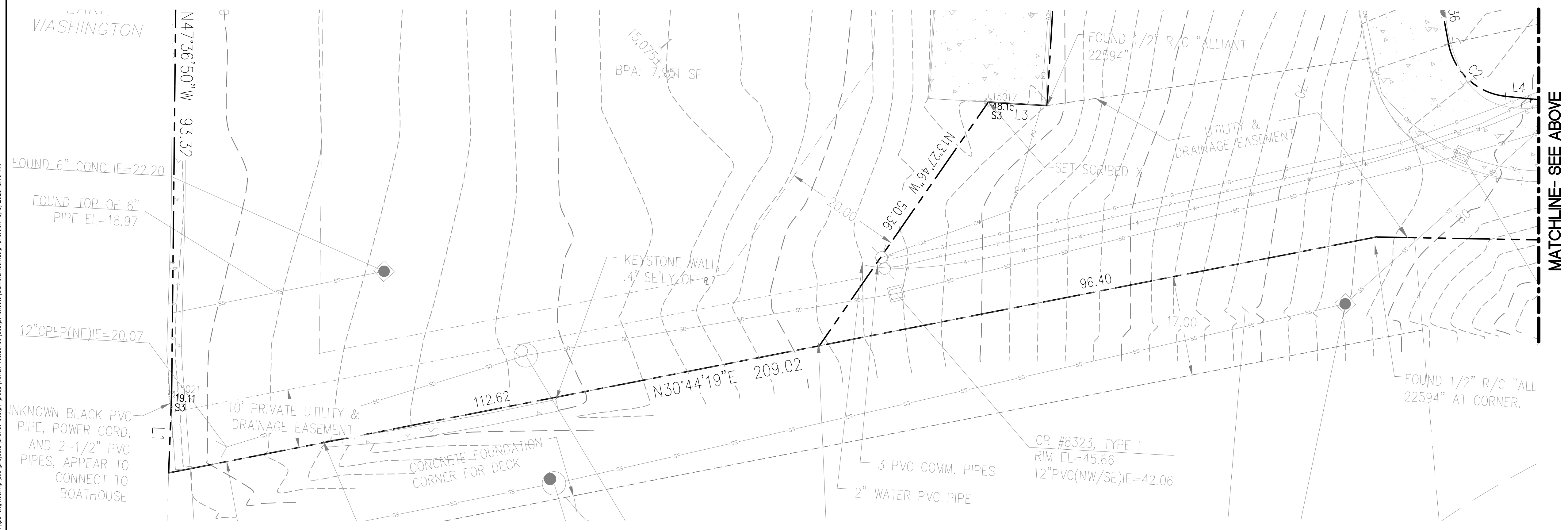
MATCHLINE- SEE BELOW



LEGEND

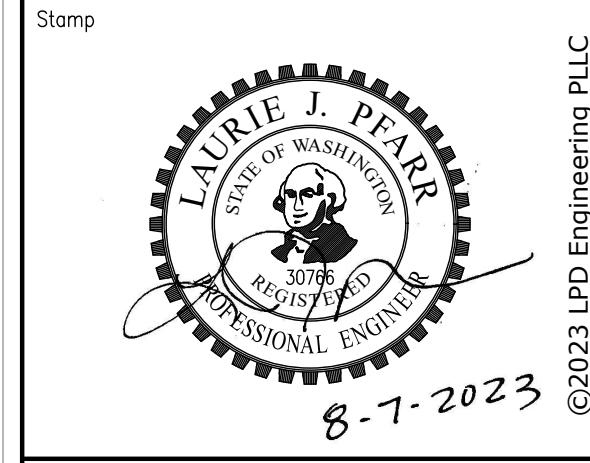
- PROPERTY LINE
- EX CONTOUR (INDEX)
- EX CONTOUR
- PROPOSED CONTOUR (INDEX)
- PROPOSED CONTOUR
- FF 78.0 FINISHED FLOOR ELEVATION
- EX BUILDING
- PROPOSED BUILDING
- CONCRETE PAVEMENT
- SITE WALL
- STORM DRAINAGE PIPE
- CATCH BASIN TYPE 1
- FOOTING/SUBSURFACE DRAIN
- STORM DRAIN CLEANOUT
- FOOTING DRAIN CLEANOUT
- DOWNSPOUTS
- SIDE SEWER PIPE
- SEWER CLEANOUT
- SIDE SEWER CONNECTION

NOTE: NO SOIL, WATER, OR DEBRIS FROM SITE ACTIVITIES ARE ALLOWED TO BE PLACED OR DISCHARGED ON THE SLOPE.



MATCHLINE- SEE ABOVE

© LPD engineering pllc projects/broad design group/urban residence design/labels/CLARKSON RESIDENCE/8/16/2022 8:19 AM



No.	Revisions	Date
1	PERMIT REVISIONS	04/20/2022
2	PERMIT REVISIONS	06/10/2022
3	FIELD REVISION	10/10/2022
4	PERMIT REVISIONS	07/06/2023

Project Name

**CLARKSON RESIDENCE
8163 W MERCER WAY**

City of Mercer Island, Washington

Project No.	272-20-01
Issue Date	04/20/2022
Scale	AS NOTED
Designed	ACW
Drawn	KES
Checked	LJP
Approved	LJP

UTILITIES & PAVING PLAN

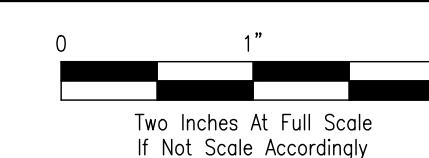
PERMIT DOCUMENTS

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No.	Revisions	Date
1	PERMIT REVISIONS	04/20/2022
2	PERMIT REVISIONS	06/10/2022
3	FIELD REVISION	10/10/2022
4	PERMIT REVISIONS	07/06/2023



Project Name

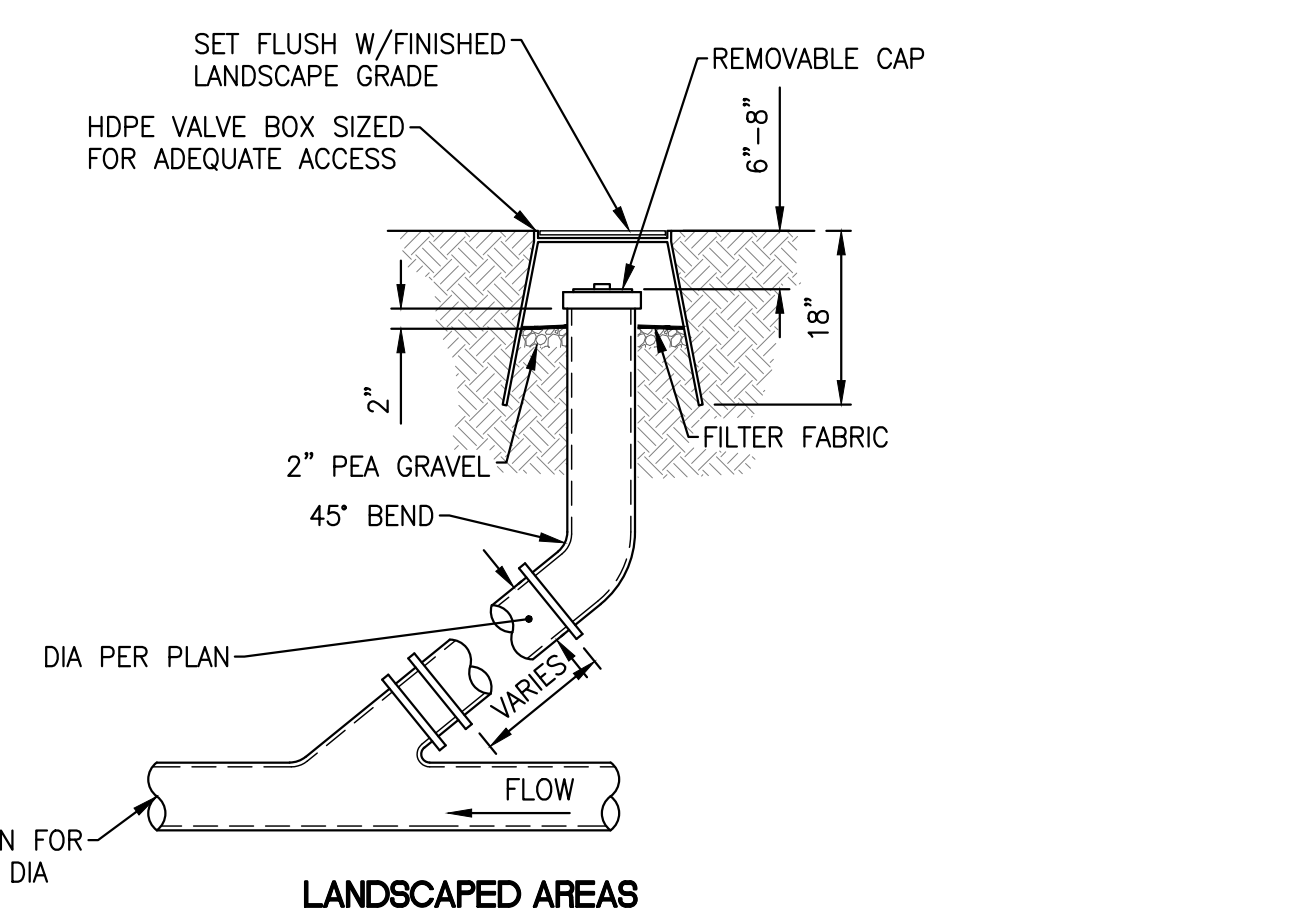
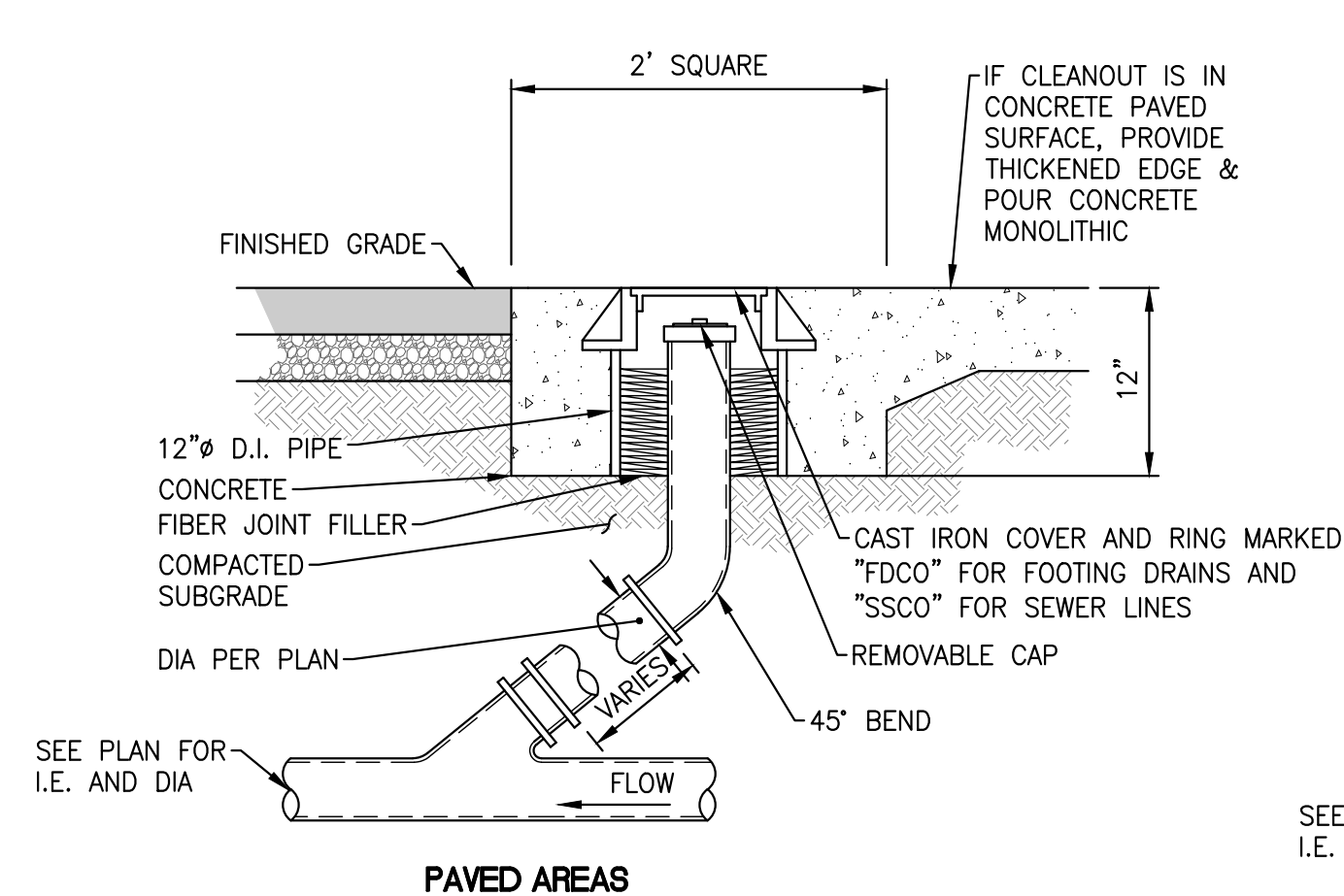
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City of Mercer Island, Washington

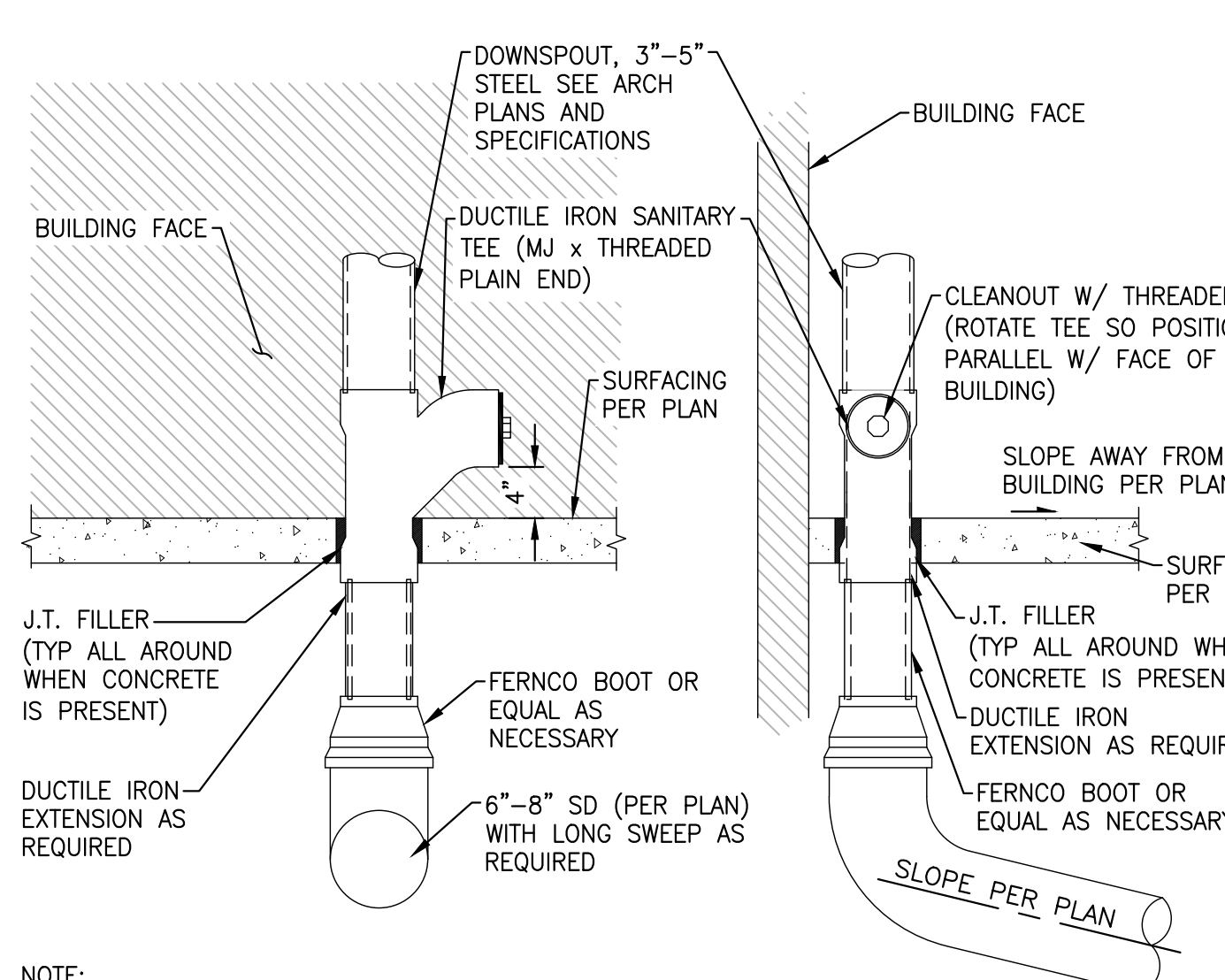
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Issue Date	04/20/2022
Scale	As Noted
Designed	ACW
Drawn	KES
Checked	LJP
Approved	LJP

PERMIT DOCUMENTS DRAINAGE & UTILITIES DETAILS

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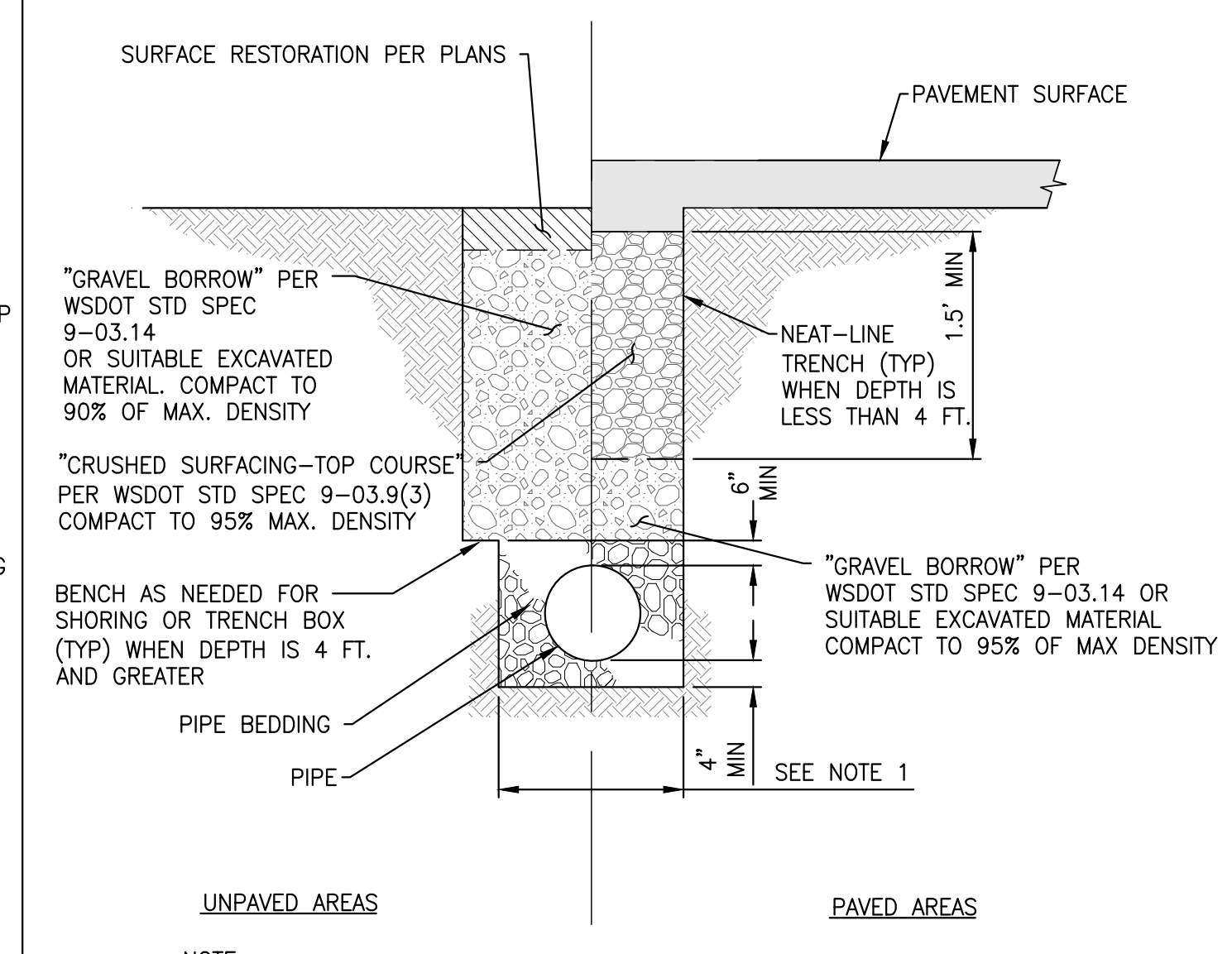


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CLEANOUT 2



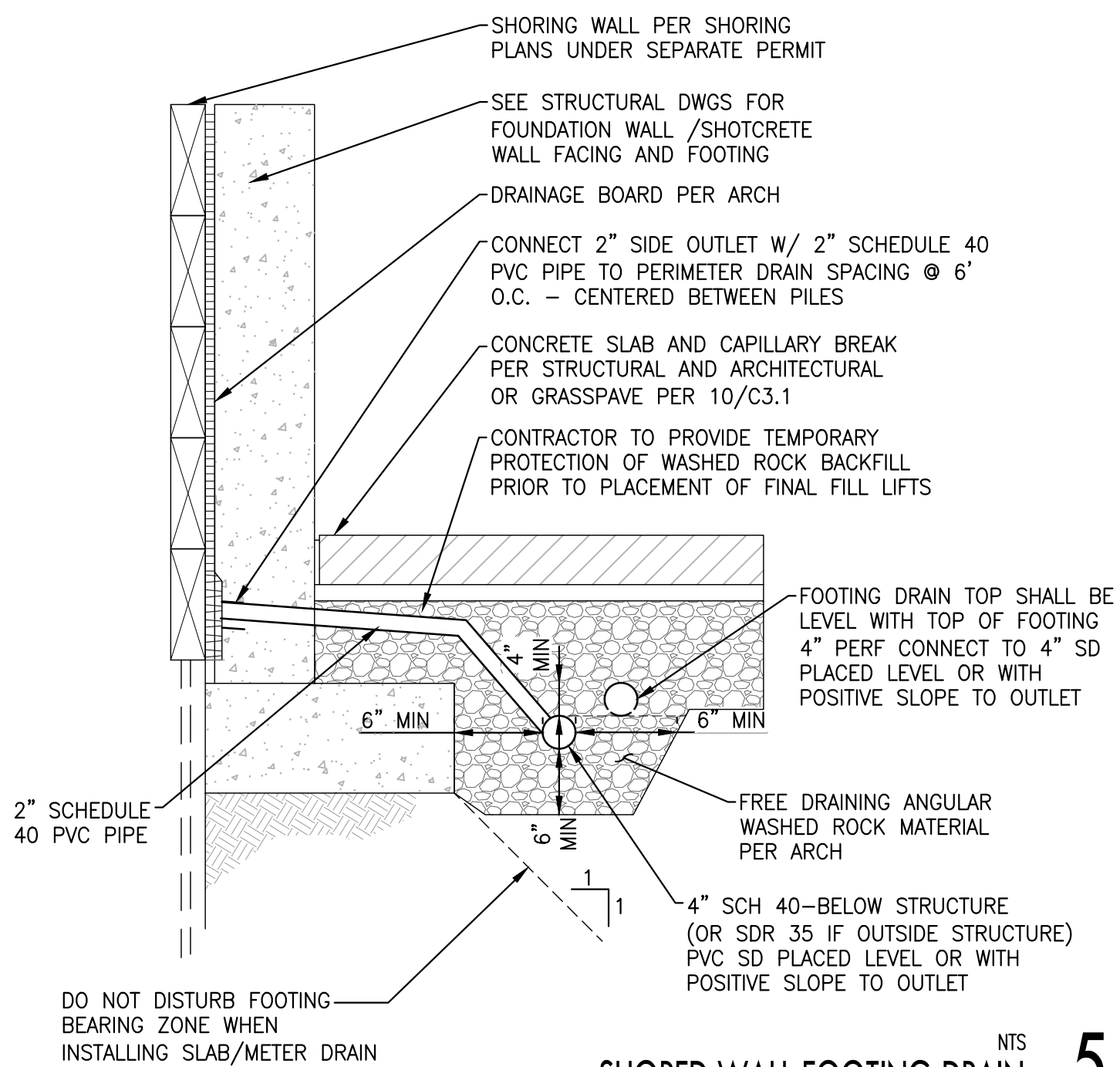
NOTE:
FOR 3" AND 4" DOWNSPOUTS USE 4" RISER AND TEE. FOR 5" DOWNSPOUTS USE 6" RISER AND TEE.

NTS
ROOF DOWNSPOUT 3

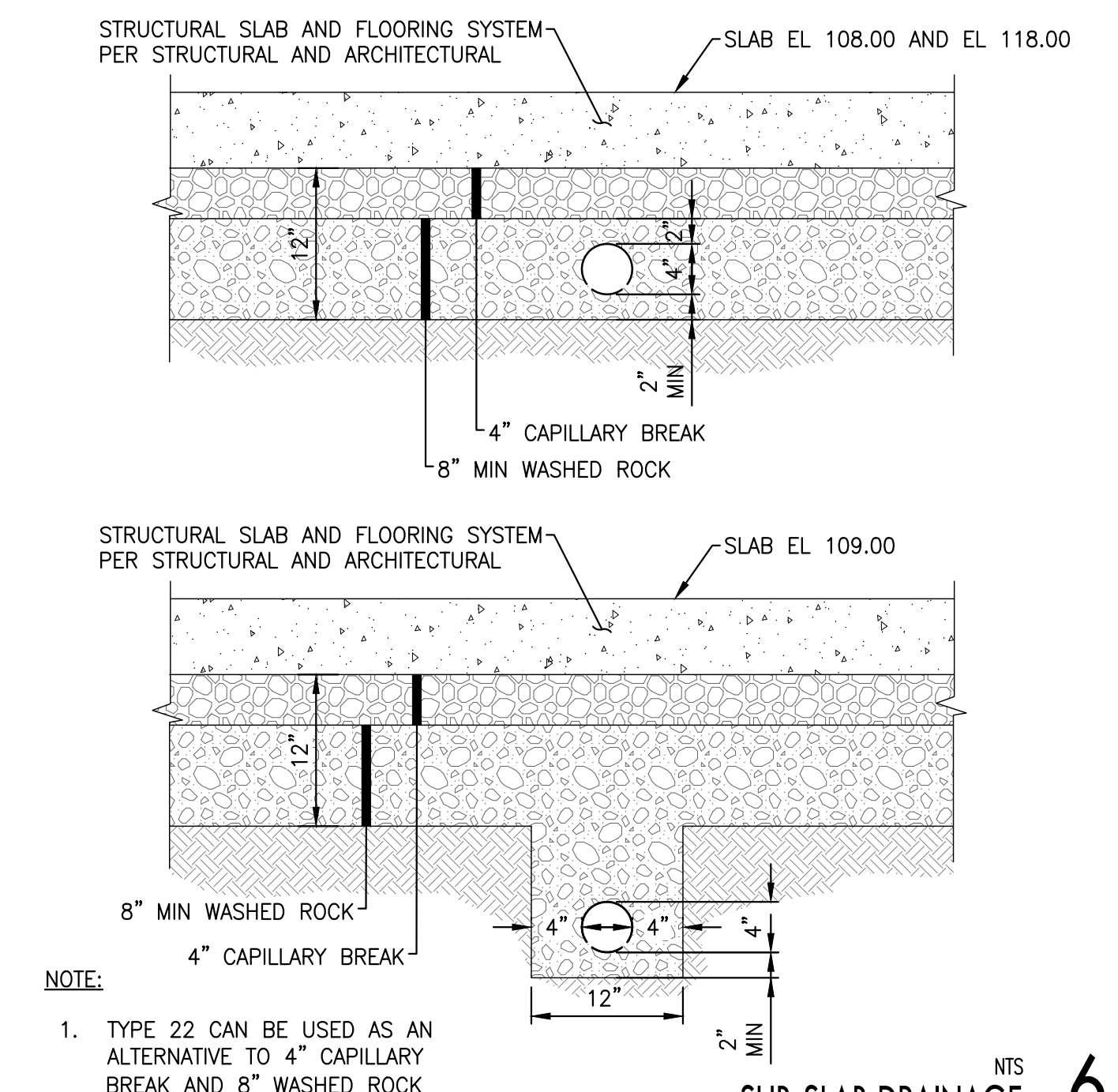


NOTE:
1. MAXIMUM WIDTH OF TRENCH AT TOP OF PIPE
* 30" FOR PIPE UP TO AND INCLUDING 12" NOMINAL DIAMETER.

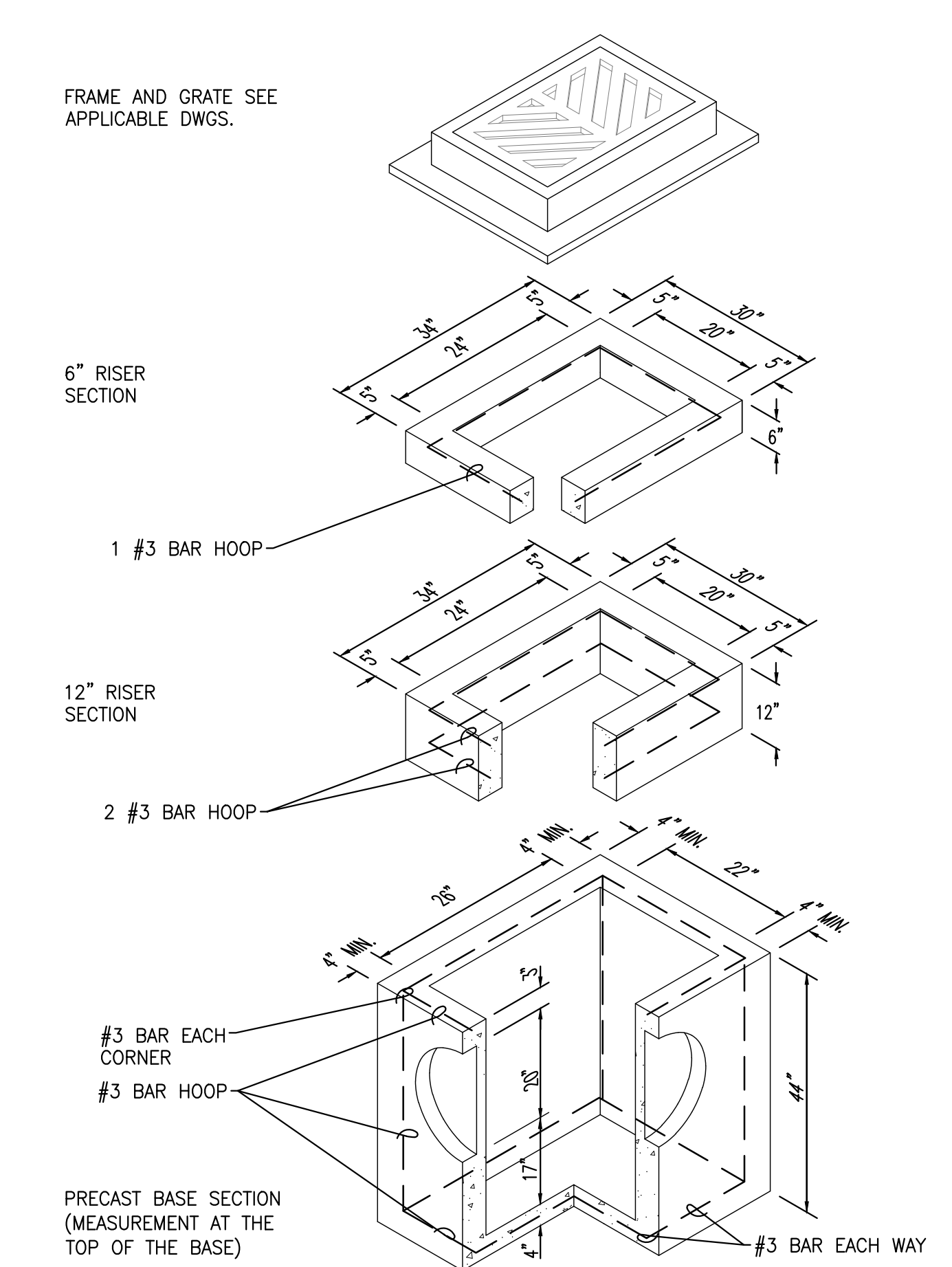
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PIPE BEDDING 4



NTS
SHORED WALL FOOTING DRAIN 5

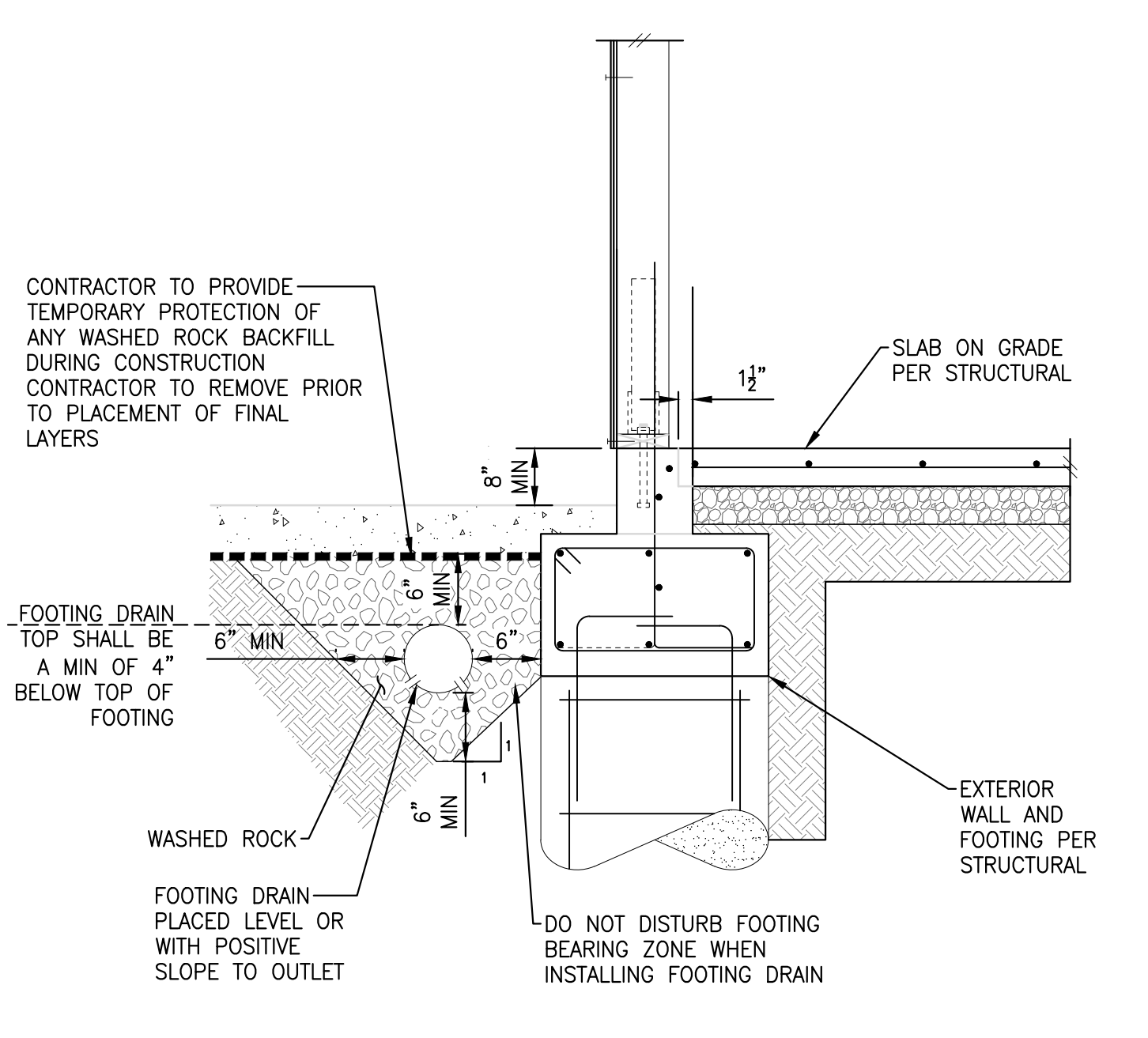


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SUB-SLAB DRAINAGE 6

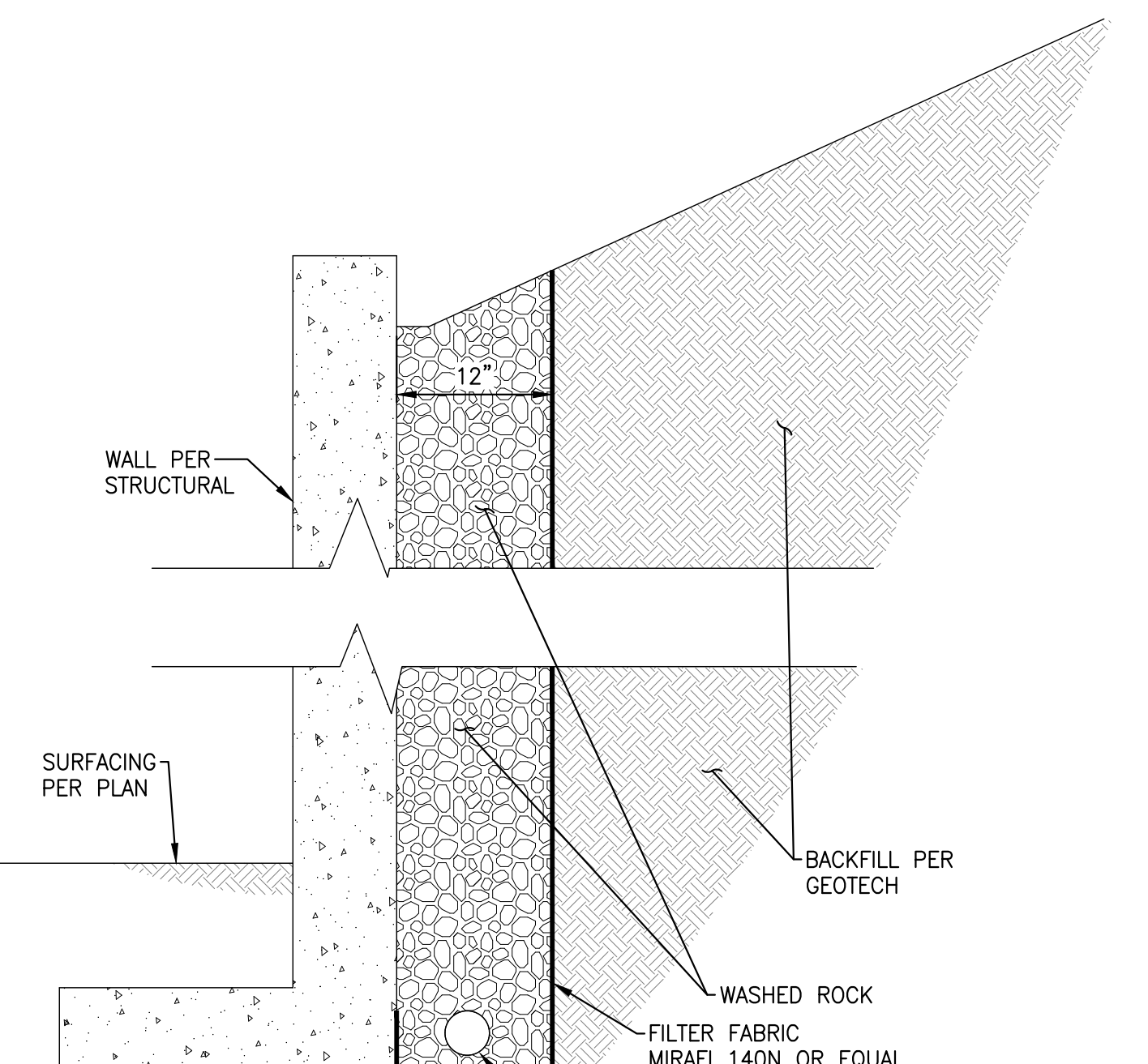


- NOTES:
- CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C478 (AASHTO M 199) & C890 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE WSDOT/APWA STANDARD SPECIFICATIONS.
 - AS AN ACCEPTABLE ALTERNATIVE TO REBAR, WELDED WIRE FABRIC HAVING A MIN. AREA OF 0.12 SQUARE INCHES PER FOOT MAY BE USED. WELDED WIRE FABRIC SHALL COMPLY TO ASTM A497 (AASHTO M 221). WIRE FABRIC SHALL NOT BE PLACED IN KNOCKOUTS.
 - ALL REINFORCED CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000.
 - PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MIN. ALL PIPE SHALL BE INSTALLED IN FACTORY PROVIDED KNOCKOUTS. UNUSED KNOCKOUTS NEED NOT BE GROUTED IF WALL IS LEFT INTACT.
 - ROUND KNOCKOUTS MAY BE ON ALL 4 SIDES, WITH MAX. DIA. OF 20". KNOCKOUTS MAY BE EITHER ROUND OR "D" SHAPE.
 - KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIA. PLUS CATCH BASIN WALL THICKNESS.
 - THE MAX. DEPTH FROM THE FINISHED GRADE TO THE PIPE INVERT IS 5'-0".
 - THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION AND RISER SECTION SHALL NOT EXCEED 1/2"/FT.
 - CATCH BASIN FRAME AND GRATE SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS AND MEET THE STRENGTH REQUIREMENTS OF FEDERAL SPECIFICATION RR-F-62ID. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
 - FRAME AND GRATE MAY BE INSTALLED WITH FLANGE DOWN OR CAST INTO RISER.
 - FOR CATCH BASINS IN PARKING LOTS REFER TO WSDOT STD PLAN B-5.60-01.
 - EDGE OF RISER OR BRICK SHALL NOT BE MORE THAN 2" FROM VERTICAL EDGE OF CATCH BASIN WALL.
 - CATCH BASIN INSTALLATION SHALL BE PER CONTRACT DOCUMENTS AND DETAILS.

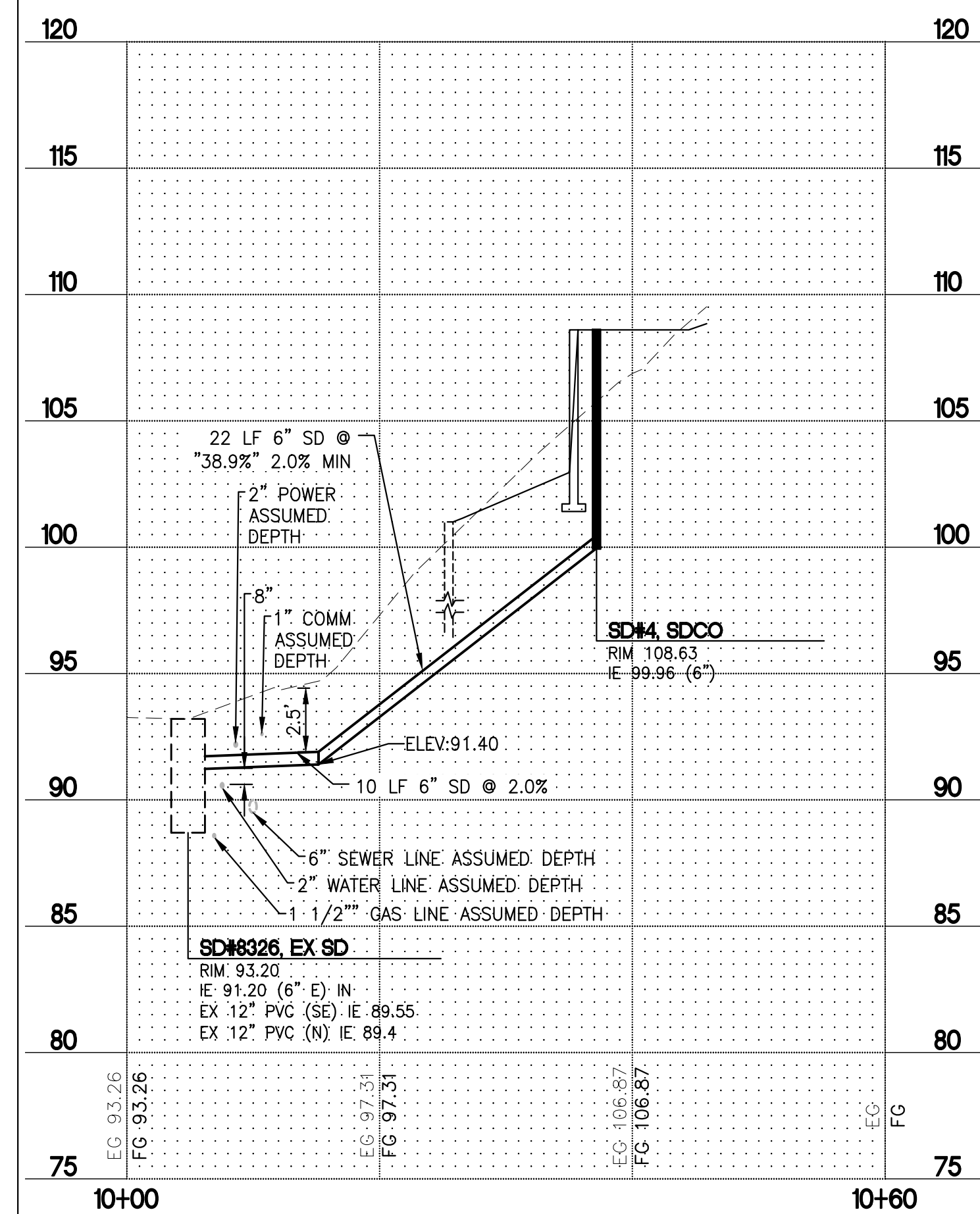
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CATCH BASIN TYPE 1 11



NTS
EXTERIOR WALL SLAB ON GRADE FOOTING DRAIN 9

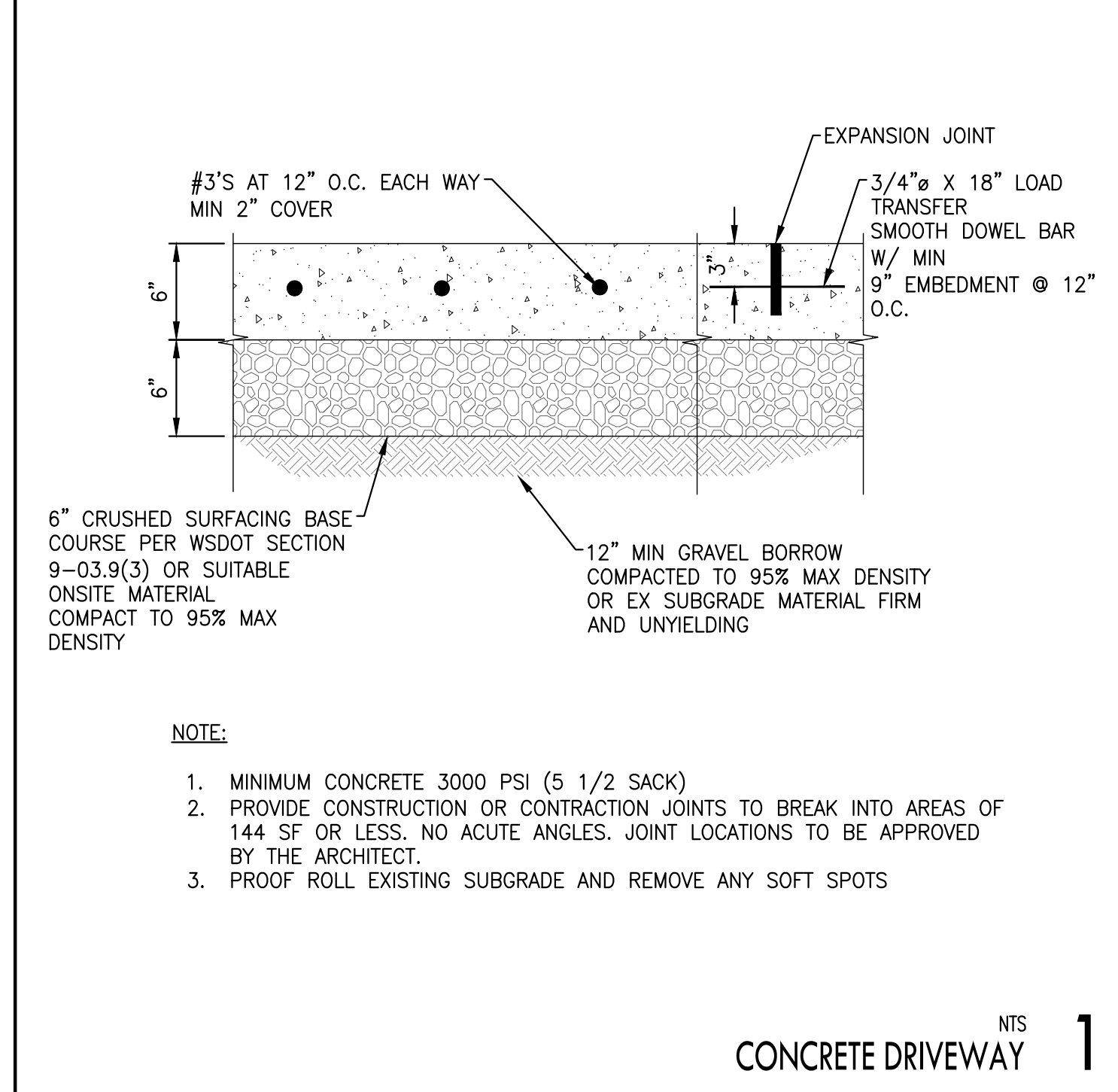


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WALL DRAIN 10

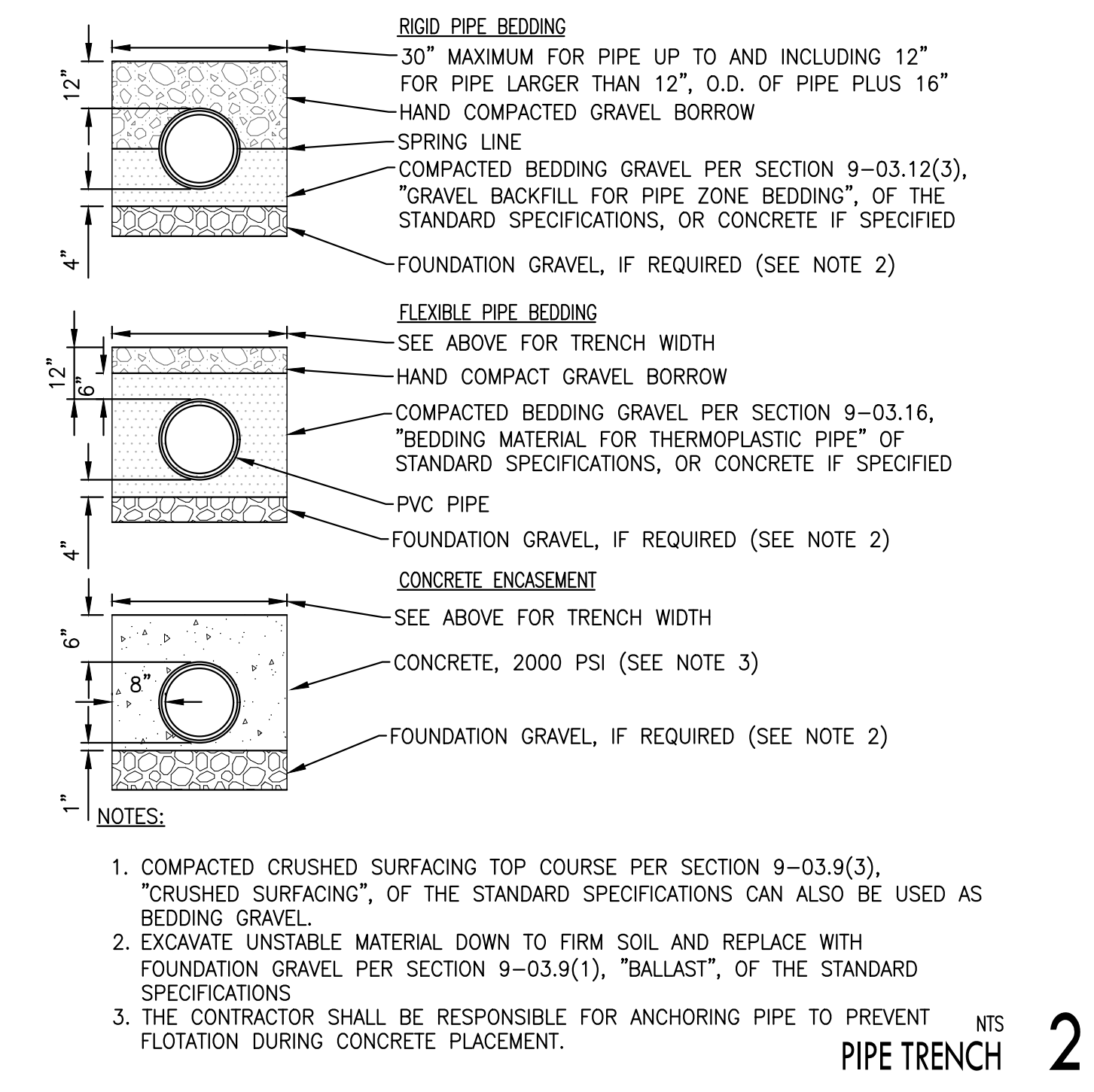


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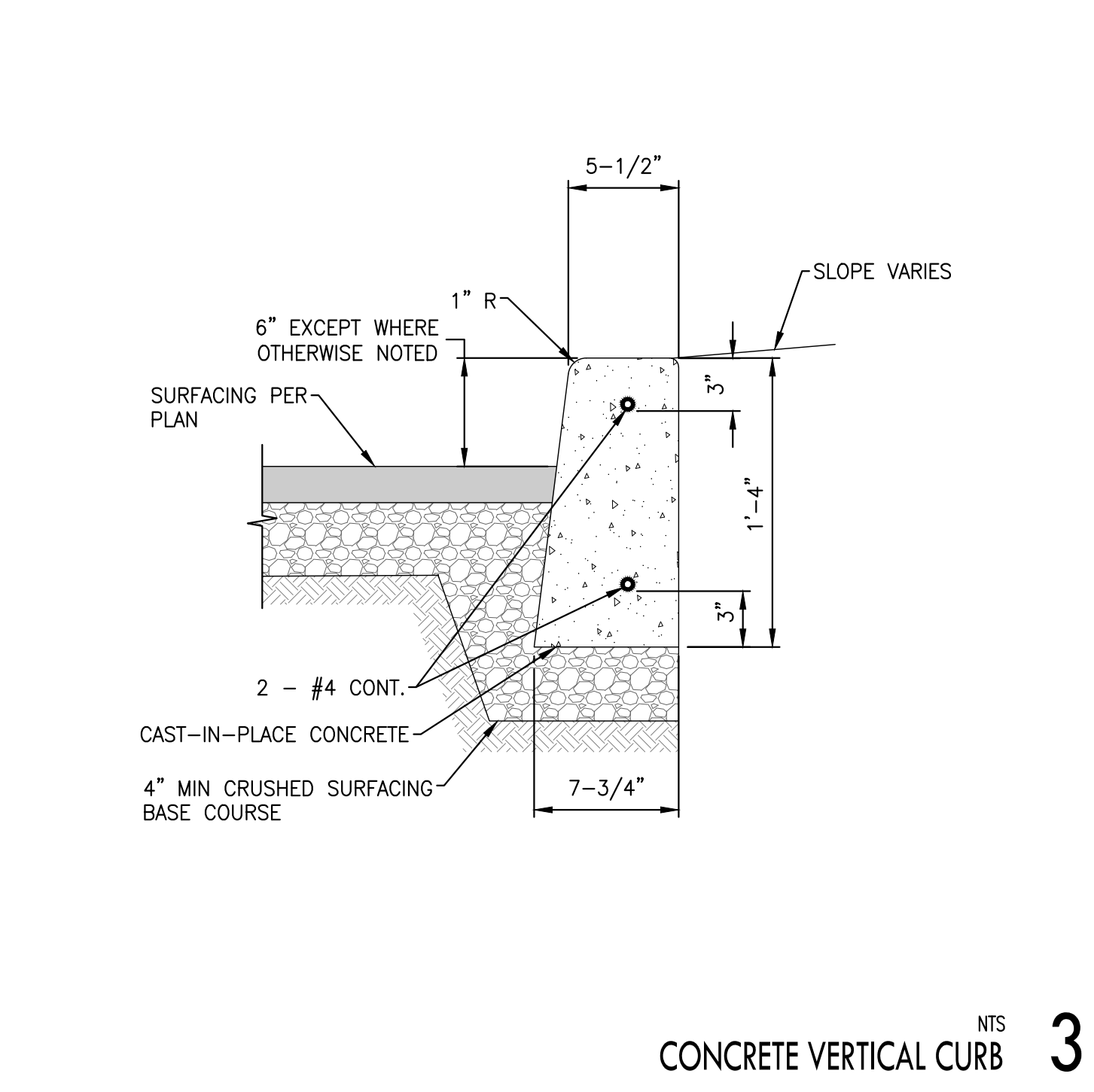
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CONCRETE DRIVEWAY 1



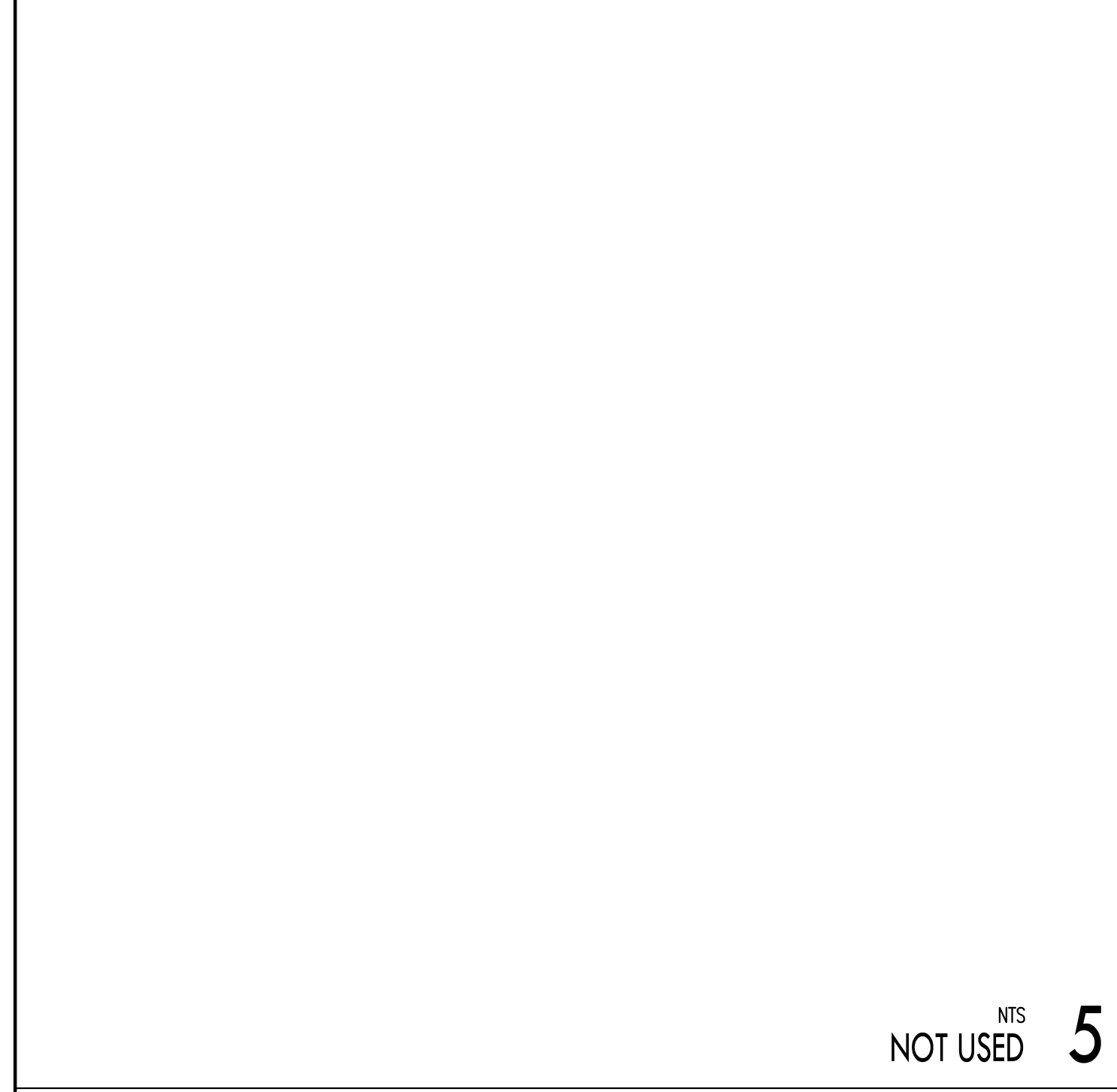
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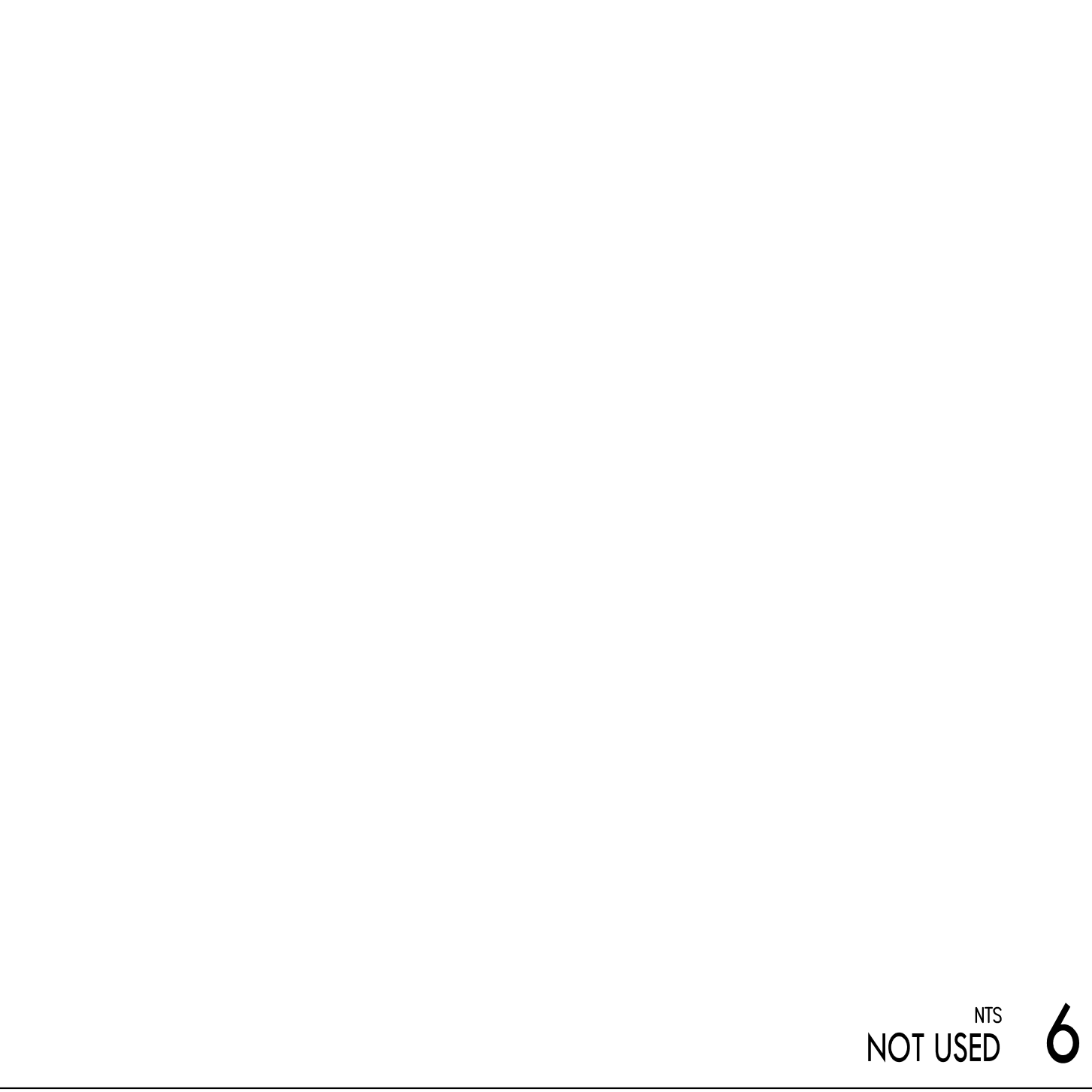
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CONCRETE VERTICAL CURB 3



NTS
NOT USED 4



NTS
NOT USED 5



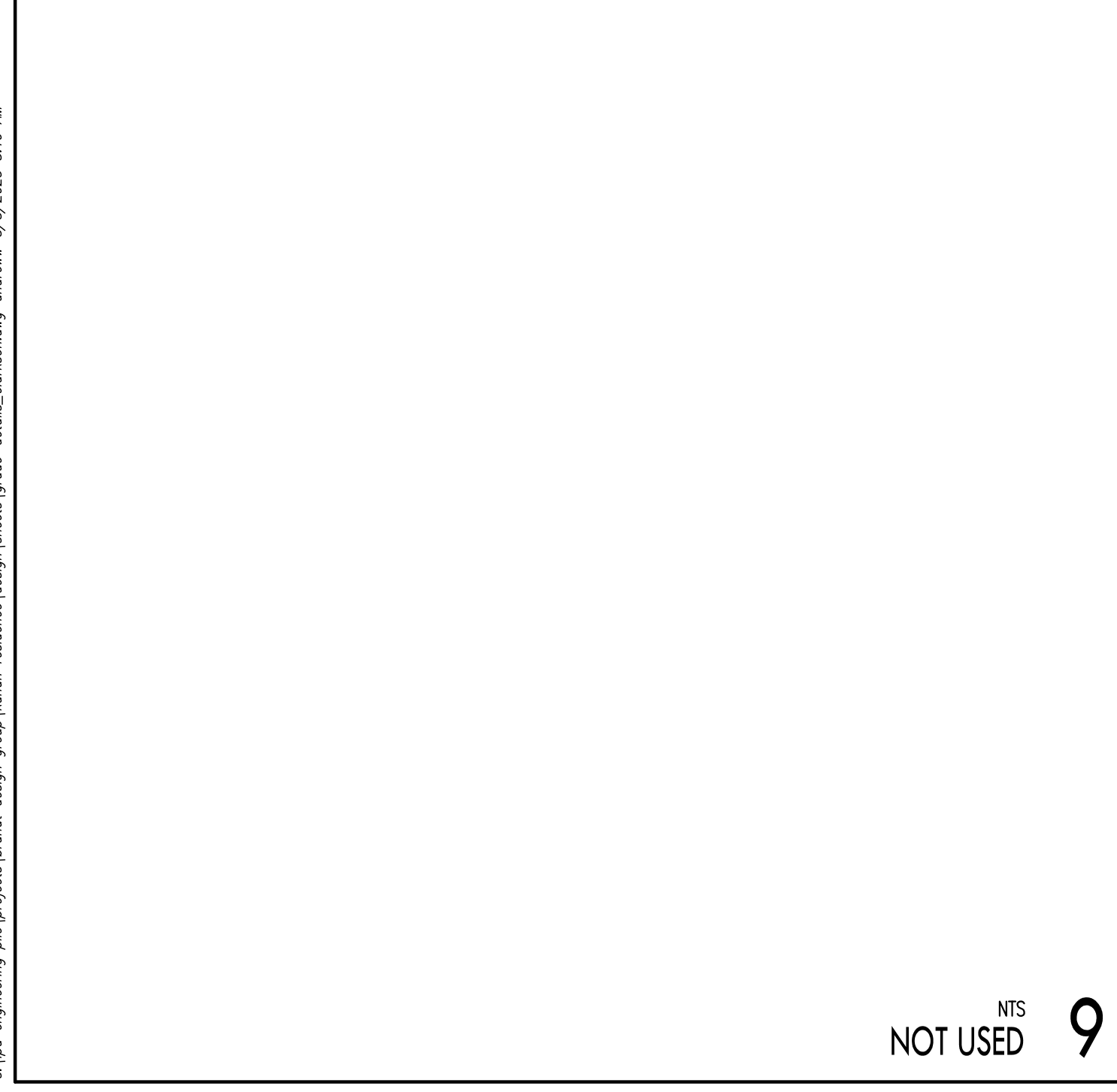
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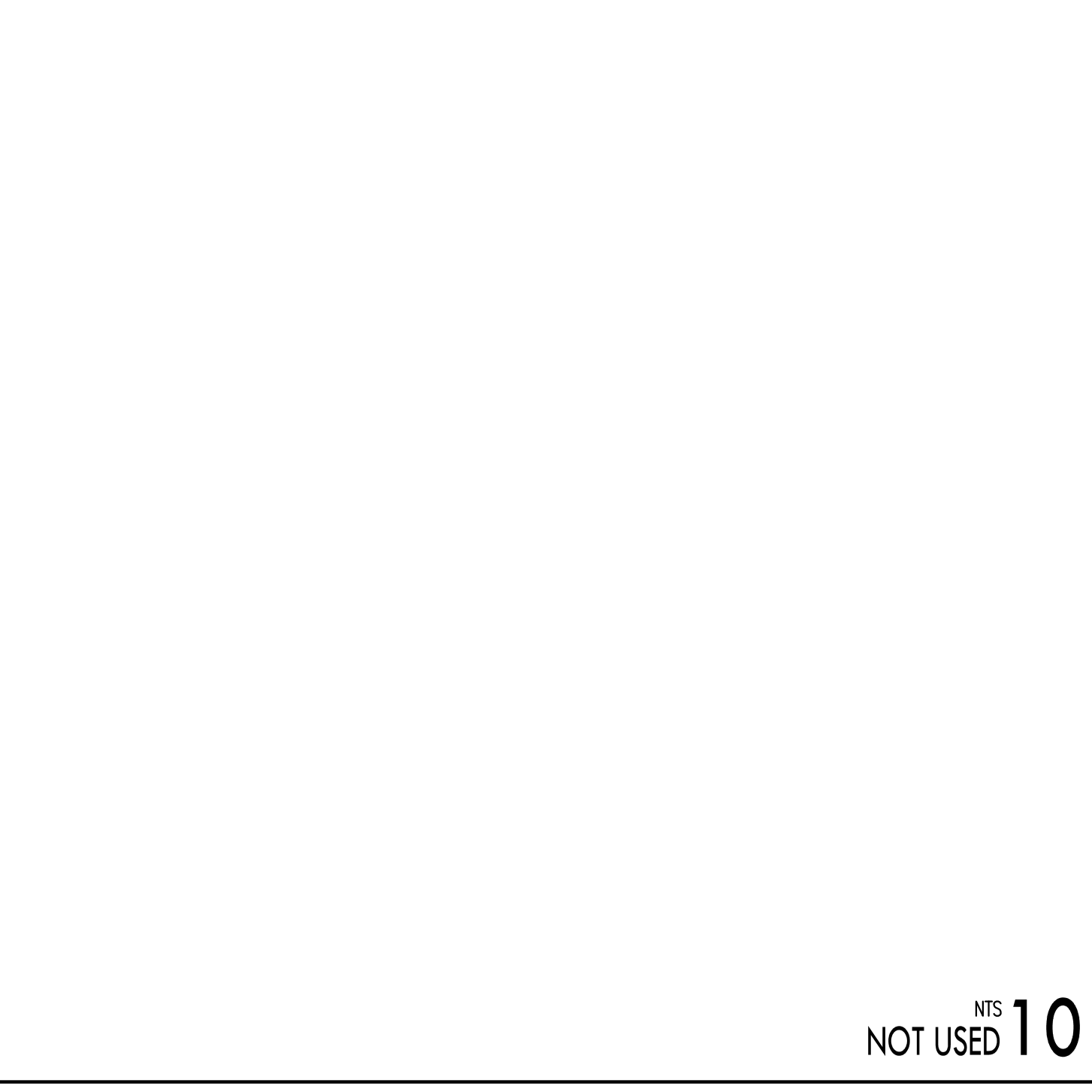
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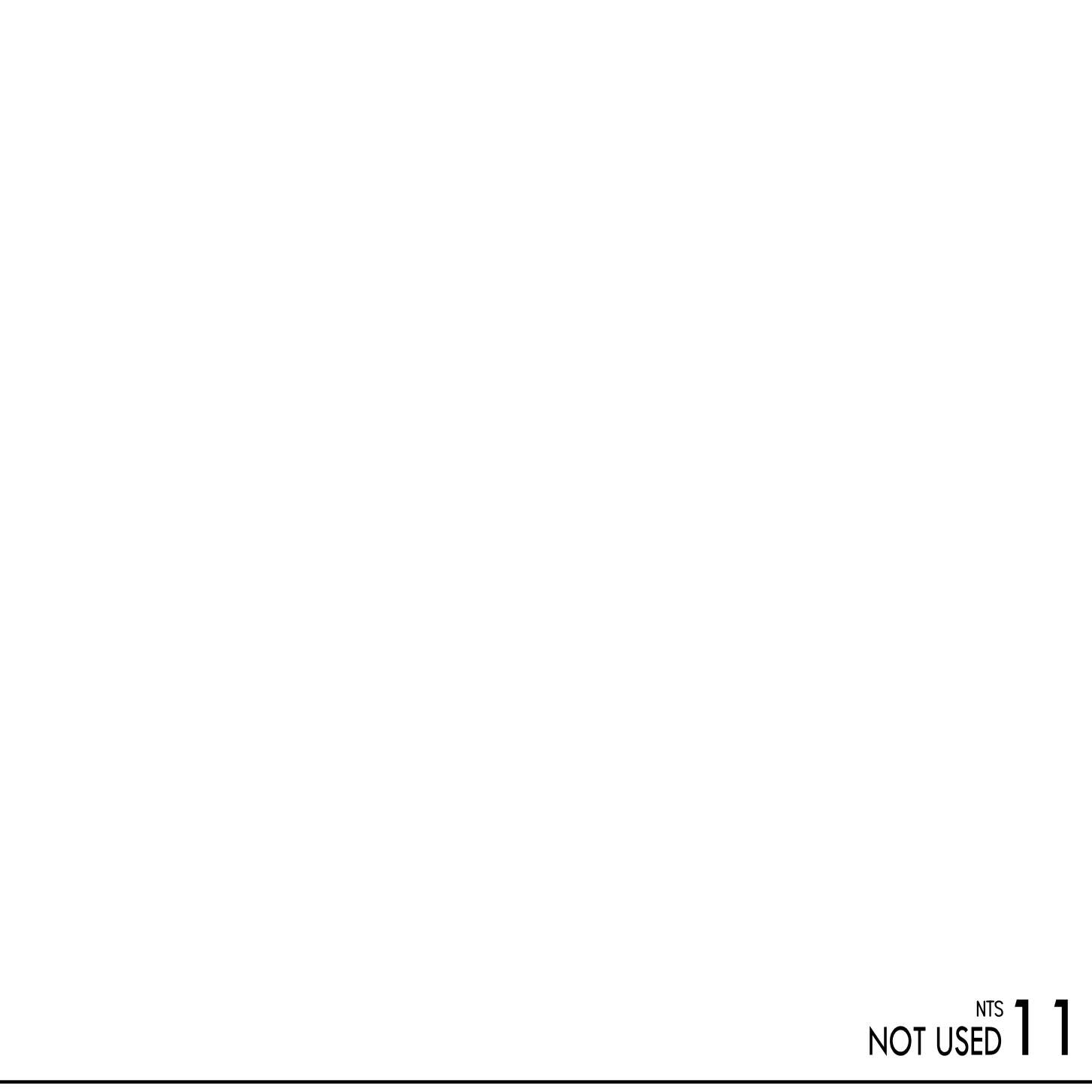
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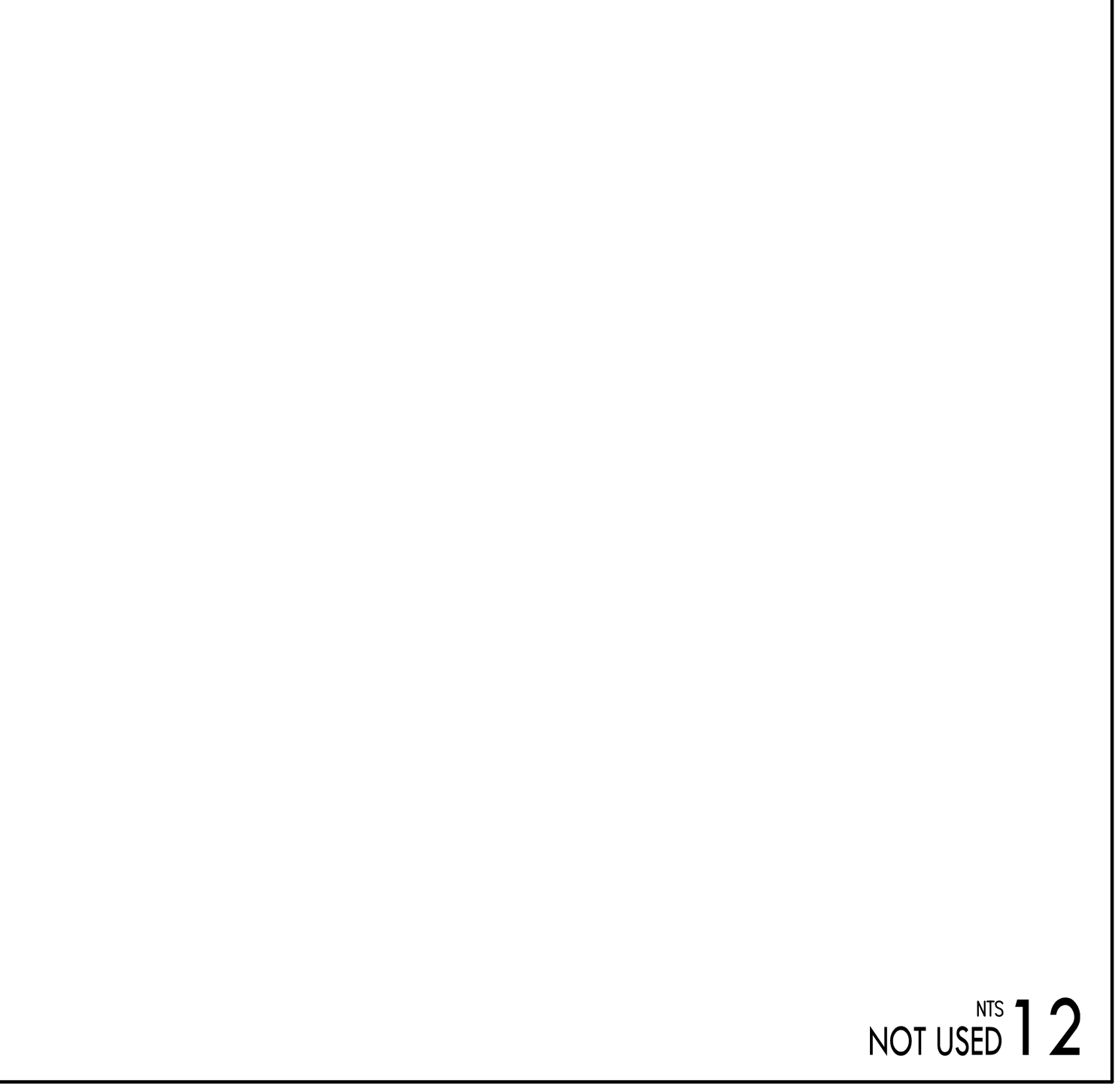
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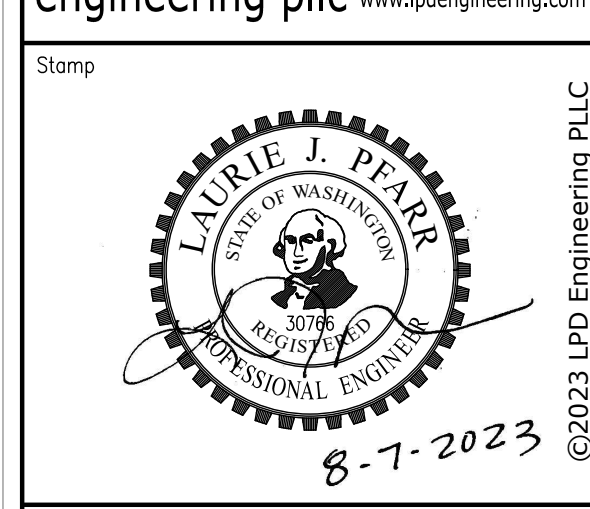
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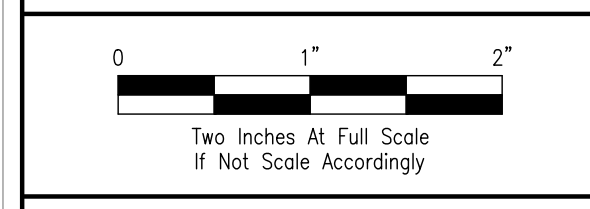
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NTS
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No.	Revisions	Date
1	PERMIT REVISIONS	04/20/2022
2	PERMIT REVISIONS	06/10/2022
3	FIELD REVISIONS	10/10/2022
4	PERMIT REVISIONS	07/06/2023



Project Name

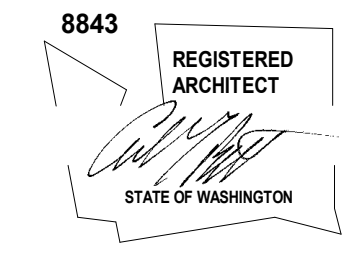
CLARKSON RESIDENCE
8163 W MERCER WAY
City of Mercer Island, Washington

Project No.	272-20-01
Issue Date	04/20/2022
Scale	As Noted
Designed	ACW Checked LJP
Drawn	KES Approved LJP

Description
PAVING DETAILS

Sheet
C4.1

PERMIT DOCUMENTS



CLARKSON RESIDENCE
8163 WEST MERCER WAY
MERCER ISLAND, WA 98040
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PERMIT DRAWINGS

DATE: 06.10.22

SHEET SIZE: D (24X36)

REVISIONS

NO.	DESCRIPTION	DATE
3	PERMIT REVISION 1	04.19.22
4	REV 1 SUB 2	06.10.22
6	PERMIT REVISION 2	07.06.23
7	PERMIT REV. 2 SUB 2	11.07.23

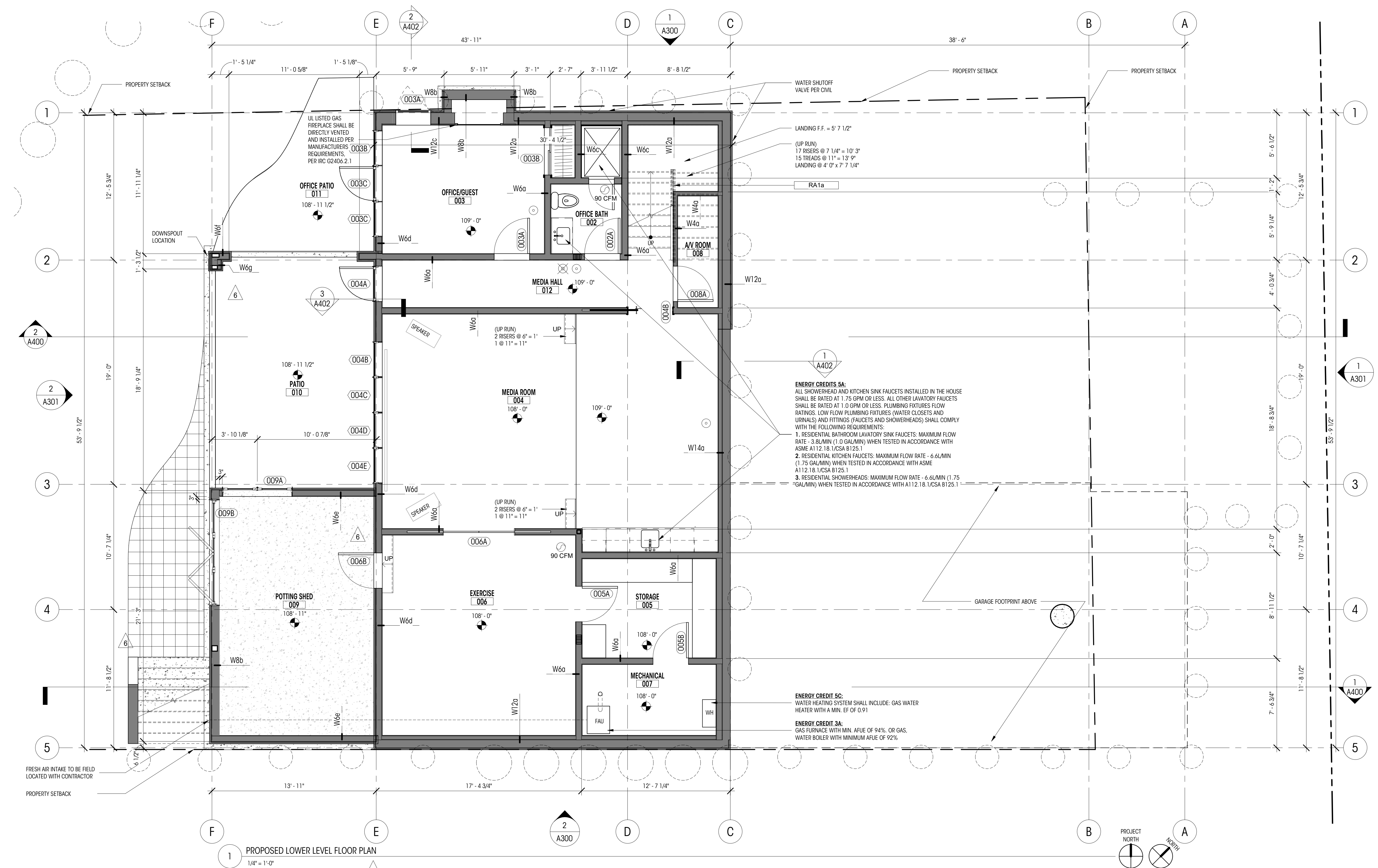
DRAWN BY: K/J/M
CHECKED BY: BM

LOWER FLOOR PLAN

SCALE: As indicated

A201

DEDICATED
APPROVAL
STAMP SPACE



PROPOSED LOWER LEVEL FLOOR PLAN
1/4" = 1'-0"

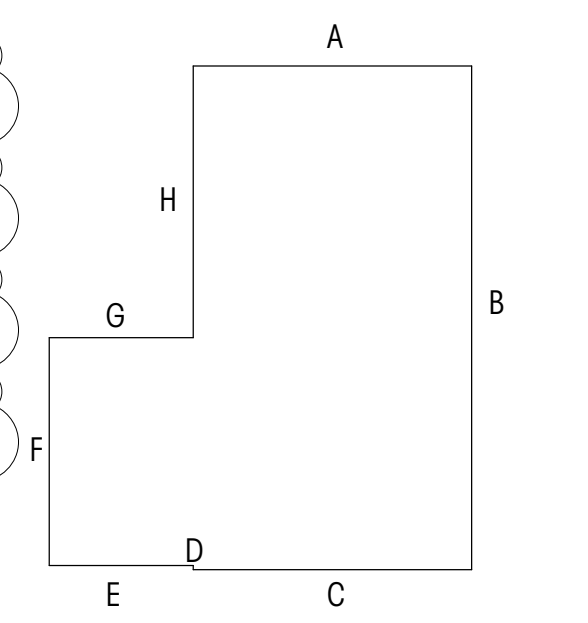
SCOPE OF CHANGES:

UPDATE TO LOWER LEVEL BASEMENT GFA REDUCTION PER PERMIT COMMENT.

BASEMENT LEVEL BELOW GRADE AREA CALC

WALL SEGMENT	LENGTH	COVERAGE	RESULT
A	30.38'	59%	17.78'
B	54.13'	100%	54.13'
C	30.38'	100%	30.38'
D	00.5'	62%	0.31'
E	13.88'	78%	10.83'
F	21.67'	13%	2.86'
G	13.92'	00%	0.00'
H	31.98'	00%	0.00'
TOTAL	196.81'		116.28'

TOTAL BASEMENT GSF = 1,943 SF
PORTION OF EXCLUDED BASEMENT FLOOR AREA:
(116.28/196.81) X 1,943 = 1,148 SF
NET BASEMENT GFA: (1943 - 1148) = 795 SF



LEGEND

- ◻ 200A WINDOW ID
- ◻ 100A DOOR ID
- ◻ 100A FINISH ID
- SMOKE DETECTOR
- ⊗ SMOKE/CARBON MONOXIDE DETECTOR
- FAN - 100 CFM U.N.O.
- ELEVATION DATUM (EL=148.5' (+0'-0'))
- MAIN LEVEL FIN. FLR.
- GRIDLINE
- NEW WALL
- ▨ PLANTER AREA
- ROOF LINE ABOVE
- ▨ LANDSCAPING
- ▨ DENSE PLANTING
- ▨ PROPOSED UPPER LEVEL 150% (PER 19.02.020.D.2.g)

NOTES

- ALL DIMENSIONS AT EXTERIOR WALLS TO FACE OF FRAMING OR TO EXT. FACE OF CONCRETE, U.N.O.
 - ALL DIMENSIONS AT INTERIOR WALLS TO FACE OF FINISH (5/8" GWB ASSUMED AT EA. SIDE OF WALL) OR TO FACE OF CONCRETE, U.N.O.
 - ALL DIMENSIONS AT KITCHEN TO EDGE OF COUNTERTOPS, U.N.O.
- RA1a PRE-MANUFACTURED 3'-0" HIGH GUARDRAIL TO RESTRICT PASSAGE OF A 4" SPHERE.
CONTRACTOR SHALL VERIFY TO INSPECTOR ALL GUARDS AND RAILINGS SHALL BE CAPABLE OF RESISTING 200LBS ON TOP RAIL ACTING IN ANY DIRECTION AS REQUIRED BY IRC R301.5, TYP. DESIGN AND CONNECTION UNDER DEFERRED SUBMITTAL.
- RA1b HANDRAIL @ 3'-0" ABOVE STAIR NOSING PER IRC R311.7.8, TYP.
- FI1a UL LISTED GAS FIREPLACE SHALL BE DIRECT VENTED AND INSTALLED PER MANUFACTURER'S REQUIREMENTS, PER IRC G2406.2.1

WHOLE HOUSE VENTILATION CALCS

PROPOSED CONDITIONED SF = 5,704 SF
NUMBER OF BEDROOMS = 6
AIRFLOW IN CFM REQUIRED FOR CONTINUOUS VENTILATION = 120 CFM
RUN TIME PERCENTAGE IN EACH 4 HOUR SEGMENT = 25%
FACTOR = 4

CALCULATION
120 CFM X 4 = 480 CFM

2015 IRC SECTION M1507, WA AMENDED 403.8.1 & 403.8.5.1 - INTERMITTENT WHOLE HOUSE VENTILATION
PER IRC TABLES M1507.3.3(1)(2) A 25% RUN-TIME IN EACH 4-HOUR SEGMENT REQUIRES A 480 CFM FAN(S) TO BE PROVIDED FOR THE REQUIRED WHOLE-HOUSE VENTILATION. THIS VENTILATION REQUIREMENT WILL BE HANDLED BY A BALANCED VENTILATION SYSTEM IN CONJUNCTION WITH FORCED AIR UNIT. SEE WA STATE VENTILATION NOTES SECTION 1507.3.5.1 ON SHEET A001 REGARDING VENTILATION REQUIREMENTS BASED INTEGRATED WITH A FORCED AIR UNIT.
*OUTDOOR AIR INLET DUCT TO BE FIELD LOCATED WITH HVAC SUBCONTRACTOR IN CONJUNCTION WITH PLACING EXHAUST DUCTS IN ORDER TO AVOID CONFLICT.

ENERGY CREDIT

2a	AIR LEAKAGE CONTROL & EFFICIENT VENTILATION: COMPLIANCE BASED ON R402.4.1.2.	5
3a	HIGH EFFICIENCY HVAC EQUIPMENT: GAS, PROPANE OR OIL FIRE FURNANCE WITH MIN. AFUE OF 94% OR GAS, PROPANE OR OIL FIRE BOILER WITH MIN. AFUE OF 92%.	1.0
5a	ALL SHOWERHEAD AND KITCHEN SINK FAUCETS INSTALLED IN THE HOUSE SHALL BE RATED AT 1.75 GPM OR LESS. ALL OTHER LAVATORY FAUCETS SHALL BE RATED AT 1.0 GPM OR LESS. PLUMBING FIXTURES FLOW RATINGS, LOW FLOW PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS: 1. RESIDENTIAL BATHROOM LAVATORY SINK FAUCETS: MAXIMUM FLOW RATE - 3.8L/MIN (1.0 GAL/MIN) WHEN TESTED IN ACCORDANCE WITH ASME A112.18.1/CSA B125.1 2. RESIDENTIAL KITCHEN FAUCETS: MAXIMUM FLOW RATE - 6.6L/MIN (1.75 GAL/MIN) WHEN TESTED IN ACCORDANCE WITH ASME A112.18.1/CSA B125.1 3. RESIDENTIAL SHOWERHEADS: MAXIMUM FLOW RATE - 6.6L/MIN (1.75 GAL/MIN) WHEN TESTED IN ACCORDANCE WITH A112.18.1/CSA B125.1	0.5 1.5
5c	GAS WATER HEATING SYSTEM W/ A MINIMUM EF OF 0.91	0.5 1.5
TOTAL		3.5

CLARKSON RESIDENCE
8163 WEST MERCER WAY
MERCER ISLAND, WA 98040
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PERMIT DRAWINGS

DATE: 06.10.22

SHEET SIZE: D (24X36)

REVISIONS

NO.	DESCRIPTION	DATE
3	PERMIT REVISION 1	04.19.22
4	REV 1 SUB 2	06.10.22
6	PERMIT REVISION 2	07.06.23
7	PERMIT REV. 2 SUB 2	11.07.23

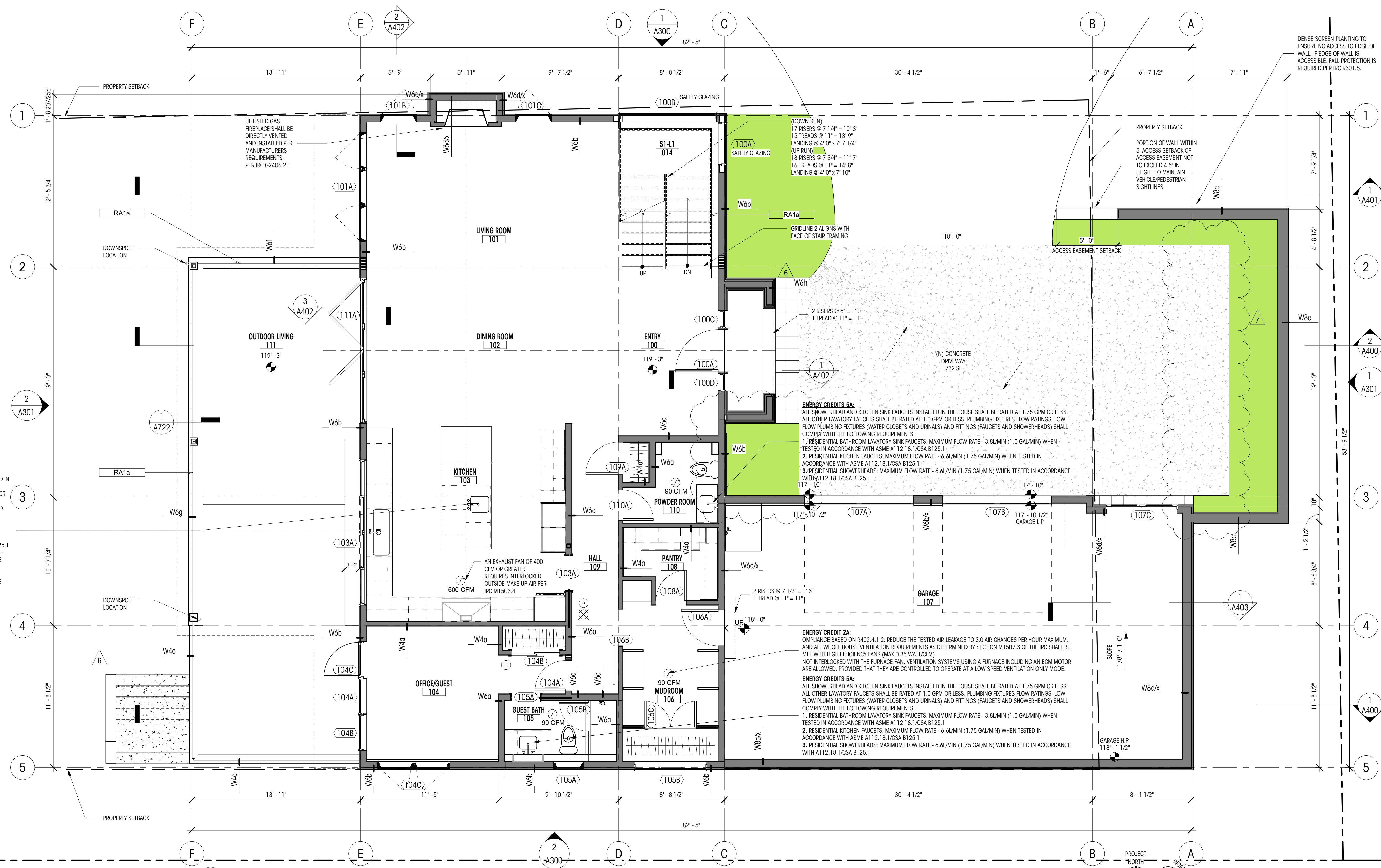
DRAWN BY: KJ/JM
CHECKED BY: BM

MAIN FLOOR PLAN

SCALE: As indicated

A202

DEDICATED APPROVAL STAMP SPACE



1 PROPOSED MAIN LEVEL FLOOR PLAN
1/4" = 1'-0"

SCOPE OF CHANGES:

- EXTENT OF MOTORCOURT PAVING REDUCED

LEGEND

- (200A) WINDOW ID
- (100A) DOOR ID
- (100A) FINISH ID
- SMOKE DETECTOR
- SMOKE/CARBON MONOXIDE DETECTOR
- FAN - 100 CFM U.N.O.
- PROPOSED UPPER LEVEL 150% (PER 19.02.020.D.2.g)
- ELEVATION DATUM (EL=148.5' (+0'-0')) MAIN LEVEL FIN. FLR.
- GRIDLINE
- NEW WALL
- PLANTER AREA
- ROOF LINE ABOVE DETECTOR
- LANDSCAPING
- DENSE PLANTING

NOTES

- ALL DIMENSIONS AT EXTERIOR WALLS TO FACE OF FRAMING OR TO EXT. FACE OF CONCRETE, U.N.O.
- ALL DIMENSIONS AT INTERIOR WALLS TO FACE OF FINISH (5/8" GWB ASSUMED AT EA. SIDE OF WALL) OR TO FACE OF CONCRETE, U.N.O.
- ALL DIMENSIONS AT KITCHEN TO EDGE OF COUNTERTOPS, U.N.O.
- PRE-MANUFACTURED 3'-0" HIGH GUARDRAIL TO RESTRICT PASSAGE OF A 4" SPHERE. CONTRACTOR SHALL VERIFY TO INSPECTOR ALL GUARDS AND RAILINGS SHALL BE CAPABLE OF RESISTING 200LBS ON TOP RAIL ACTING IN ANY DIRECTION AS REQUIRED BY IRC R301.5, TYP. DESIGN AND CONNECTION UNDER DEFERRED SUBMITTAL.
- HANDRAIL @ 3" ABOVE STAIR NOSING PER IRC R311.7.8, TYP.
- UL LISTED GAS FIREPLACE SHALL BE DIRECT VENTED AND INSTALLED PER MANUFACTURER'S REQUIREMENTS, PER IRC G2406.2.1

WHOLE HOUSE VENTILATION CALCS

PROPOSED CONDITIONED SF =	5,704 SF
NUMBER OF BEDROOMS =	6
AIRFLOW IN CFM REQUIRED FOR CONTINUOUS VENTILATION = 120 CFM	25%
RUN TIME PERCENTAGE IN EACH 4 HOUR SEGMENT =	4
FACTOR =	
	120 CFM X 4 = 480 CFM

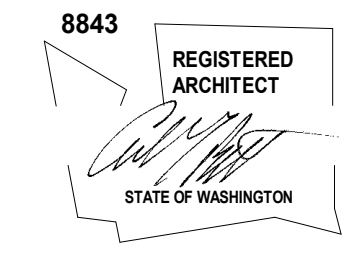
2015 IRC SECTION M1507, WA AMENDED 403.8.1 & 403.8.5.1 - INTERMITTENT WHOLE HOUSE VENTILATION

CONTRACTOR SHALL VERIFY TO INSPECTOR ALL GUARDS AND RAILINGS SHALL BE CAPABLE OF RESISTING 200LBS ON TOP RAIL ACTING IN ANY DIRECTION AS REQUIRED BY IRC R301.5, TYP. DESIGN AND CONNECTION UNDER DEFERRED SUBMITTAL.

*OUTDOOR AIR INLET DUCT TO BE FIELD LOCATED WITH HVAC SUBCONTRACTOR IN CONJUNCTION WITH PLACING EXHAUST DUCTS IN ORDER TO AVOID CONFLICT.

ENERGY CREDIT

2a	AIR LEAKAGE CONTROL & EFFICIENT VENTILATION: COMPLIANCE BASED ON R402.4.1.2.	5
3a	HIGH EFFICIENCY HVAC EQUIPMENT: GAS, PROPANE OR OIL FIRE FURNACE WITH MIN. AFUE OF 94% OR GAS, PROPANE OR OIL FIRE BOILER WITH MIN. AFUE OF 92%. ALL SHOWERHEAD AND KITCHEN SINK FAUCETS INSTALLED IN THE HOUSE SHALL BE RATED AT 1.75 GPM OR LESS. ALL OTHER LAVATORY FAUCETS SHALL BE RATED AT 1.0 GPM OR LESS. PLUMBING FIXTURES FLOW RATINGS, LOW FLOW PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:	1.0
5a	1. RESIDENTIAL BATHROOM LAVATORY SINK FAUCETS: MAXIMUM FLOW RATE - 3.8L/MIN (1.0 GAL/MIN) WHEN TESTED IN ACCORDANCE WITH ASME A112.18.1/CSA B125.1 2. RESIDENTIAL KITCHEN FAUCETS: MAXIMUM FLOW RATE - 6.6L/MIN (1.75 GAL/MIN) WHEN TESTED IN ACCORDANCE WITH ASME A112.18.1/CSA B125.1 3. RESIDENTIAL SHOWERHEADS: MAXIMUM FLOW RATE - 6.6L/MIN (1.75 GAL/MIN) WHEN TESTED IN ACCORDANCE WITH ASME A112.18.1/CSA B125.1	0.5
5c	GAS WATER HEATING SYSTEM W/ A MINIMUM EF OF 0.91	1.5
	TOTAL	3.5



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PERMIT DRAWINGS

DATE: 06.10.22

SHEET SIZE: D (24X36)

REVISIONS

NO.	DESCRIPTION	DATE
3	PERMIT REVISION 1	04.19.22
4	REV 1 SUB 2	06.10.22
5	REV 1 SUB 3	08.30.22
6	PERMIT REVISION 2	07.06.23
7	PERMIT REV. 2 SUB 2	11.07.23

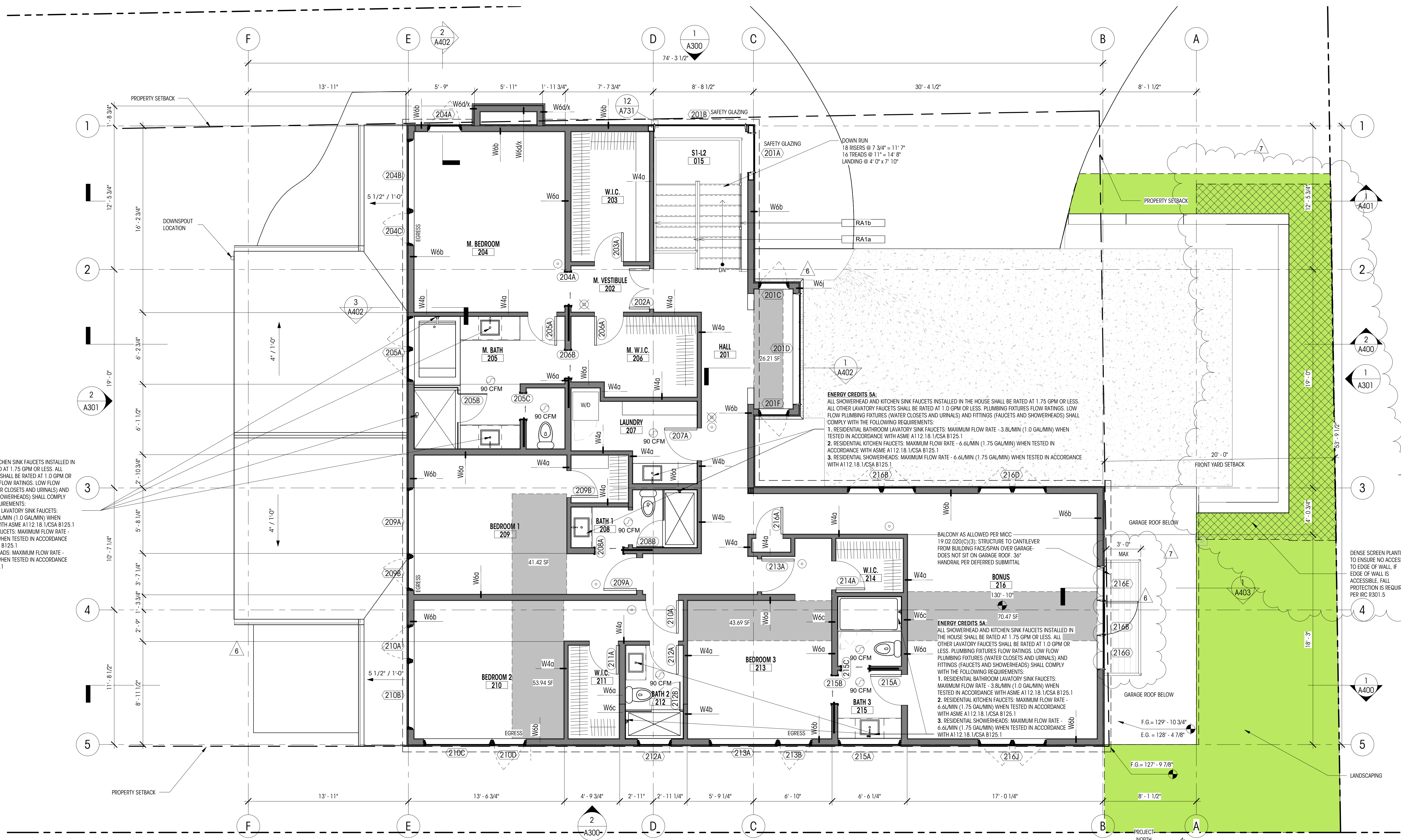
DRAWN BY: KJ/JM
CHECKED BY: BM

UPPER FLOOR PLAN

SCALE: As indicated

A203

DEDICATED
APPROVAL
STAMP SPACE



1 PROPOSED UPPER LEVEL FLOOR PLAN
1/4" = 1'-0"

SCOPE OF CHANGES:

- JULIET BALCONY ADDED OFF OF BONUS ROOM
- DENSE SCREEN PLANTING GRAPHIC ADDED BACK IN

LEGEND

(200A) WINDOW ID	— ELEVATION DATUM
(100A) DOOR ID	— GRIDLINE
(100A) FINISH ID	— NEW WALL
○ SMOKE DETECTOR	— PLANTER AREA
⊗ SMOKE/CARBON MONOXIDE DETECTOR	— ROOF LINE ABOVE
○ FAN - 100 CFM U.N.O.	— LANDSCAPING
■ PROPOSED UPPER LEVEL 150% (PER 19.02.020.D.2.g)	— DENSE PLANTING

NOTES

- ALL DIMENSIONS AT EXTERIOR WALLS TO FACE OF FRAMING OR TO EXT. FACE OF CONCRETE, U.N.O.
- ALL DIMENSIONS AT INTERIOR WALLS TO FACE OF FINISH (5/8" GWB ASSUMED AT EA. SIDE OF WALL) OR TO FACE OF CONCRETE, U.N.O.
- ALL DIMENSIONS AT KITCHEN TO EDGE OF COUNTERTOPS, U.N.O.

RA1a PRE-MANUFACTURED 3'-0" HIGH GUARDRAIL TO RESTRICT PASSAGE OF A 4" SPHERE. CONTRACTOR SHALL VERIFY TO INSPECTOR ALL GUARDS AND RAILINGS SHALL BE CAPABLE OF RESISTING 200LBS ON TOP RAIL ACTING IN ANY DIRECTION AS REQUIRED BY IRC R301.5, TYP. DESIGN AND CONNECTION UNDER DEFERRED SUBMITTAL.

RA1b HANDRAIL @ 3" ABOVE STAIR NOSING PER IRC R311.7.8, TYP.

FI1a UL LISTED GAS FIREPLACE SHALL BE DIRECT VENTED AND INSTALLED PER MANUFACTURER'S REQUIREMENTS, PER IRC G2406.2.1

WHOLE HOUSE VENTILATION CALCS

PROPOSED CONDITIONED SF = 5,704 SF
NUMBER OF BEDROOMS = 6
AIRFLOW IN CFM REQUIRED FOR CONTINUOUS VENTILATION = 120 CFM
RUN TIME PERCENTAGE IN EACH 4 HOUR SEGMENT = 25 %
FACTOR = 4

CALCULATION 120 CFM X 4 = 480 CFM

2015 IRC SECTION M1507, WA AMENDED 403.8.1 & 403.8.5.1 - INTERMITTENT WHOLE HOUSE VENTILATION
PER IRC TABLE M1507.3.3(1)(2) A 25% RUN-TIME IN EACH 4-HOUR SEGMENT REQUIRES A 480 CFM (FAN(S) TO BE PROVIDED FOR THE REQUIRED WHOLE-HOUSE VENTILATION. THIS VENTILATION REQUIREMENT WILL BE HANDLED BY A BALANCED VENTILATION SYSTEM IN CONJUNCTION WITH FORCED AIR UNIT. SEE WA STATE VENTILATION NOTES SECTION 1507.3.5.1 ON SHEET A01 REGARDING VENTILATION REQUIREMENTS BASED INTEGRATED WITH A FORCED AIR UNIT
*OUTDOOR AIR INLET DUCT TO BE FIELD LOCATED WITH HVAC SUBCONTRACTOR IN CONJUNCTION WITH PLACING EXHAUST DUCTS IN ORDER TO AVOID CONFLICT.

ENERGY CREDIT

2a	AIR LEAKAGE CONTROL & EFFICIENT VENTILATION: COMPLIANCE BASED ON R402.4.1.2.	5
3a	HIGH EFFICIENCY HVAC EQUIPMENT: GAS, PROPANE OR OIL FIRE FURNACE WITH MIN. AFUE OF 94% OR GAS, PROPANE OR OIL FIRE BOILER WITH MIN. AFUE OF 92% ALL SHOWERHEAD AND KITCHEN SINK FAUCETS INSTALLED IN THE HOUSE SHALL BE RATED AT 1.75 GPM OR LESS. ALL OTHER LAVATORY FAUCETS SHALL BE RATED AT 1.0 GPM OR LESS. PLUMBING FIXTURES FLOW RATINGS, LOW FLOW PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS: 1. RESIDENTIAL BATHROOM LAVATORY SINK FAUCETS: MAXIMUM FLOW RATE - 3.8L/MIN (1.0 GAL/MIN) WHEN TESTED IN ACCORDANCE WITH ASME A112.18.1/CSA B125.1 2. RESIDENTIAL KITCHEN FAUCETS: MAXIMUM FLOW RATE - 6.6L/MIN (1.75 GAL/MIN) WHEN TESTED IN ACCORDANCE WITH ASME A112.18.1/CSA B125.1 3. RESIDENTIAL SHOWERHEADS: MAXIMUM FLOW RATE - 6.6L/MIN (1.75 GAL/MIN) WHEN TESTED IN ACCORDANCE WITH ASME A112.18.1/CSA B125.1	1.0
5c	GAS WATER HEATING SYSTEM W/ A MINIMUM EF OF 0.91	0.5 1.5
TOTAL		3.5

ENERGY CREDITS 5A:
ALL SHOWERHEAD AND KITCHEN SINK FAUCETS INSTALLED IN THE HOUSE SHALL BE RATED AT 1.75 GPM OR LESS. ALL OTHER LAVATORY FAUCETS SHALL BE RATED AT 1.0 GPM OR LESS. PLUMBING FIXTURES FLOW RATINGS, LOW FLOW PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:
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2. RESIDENTIAL KITCHEN FAUCETS: MAXIMUM FLOW RATE - 6.6L/MIN (1.75 GAL/MIN) WHEN TESTED IN ACCORDANCE WITH ASME A112.18.1/CSA B125.1
3. RESIDENTIAL SHOWERHEADS: MAXIMUM FLOW RATE - 6.6L/MIN (1.75 GAL/MIN) WHEN TESTED IN ACCORDANCE WITH A112.18.1/CSA B125.1

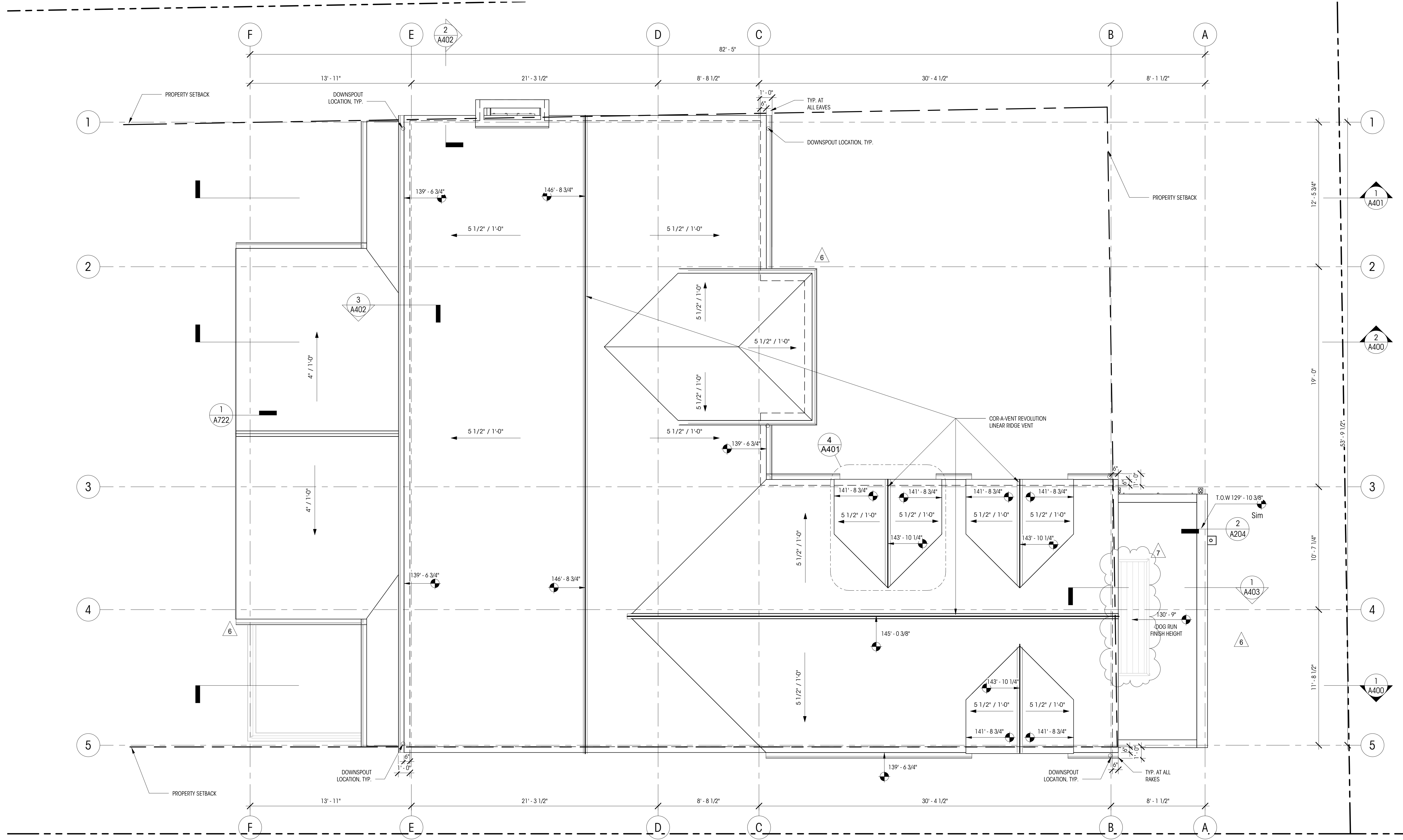
ENERGY CREDITS 5A:
ALL SHOWERHEAD AND KITCHEN SINK FAUCETS INSTALLED IN THE HOUSE SHALL BE RATED AT 1.75 GPM OR LESS. ALL OTHER LAVATORY FAUCETS SHALL BE RATED AT 1.0 GPM OR LESS. PLUMBING FIXTURES FLOW RATINGS, LOW FLOW PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:
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3. RESIDENTIAL SHOWERHEADS: MAXIMUM FLOW RATE - 6.6L/MIN (1.75 GAL/MIN) WHEN TESTED IN ACCORDANCE WITH A112.18.1/CSA B125.1

BALCONY AS ALLOWED PER MICC 19.02.020(C)(3); STRUCTURE TO CANTILEVER FROM BUILDING FACE/SPAN OVER GARAGE- DOES NOT SIT ON GARAGE ROOF. 36" HANDRAIL PER DEFERRED SUBMITTAL

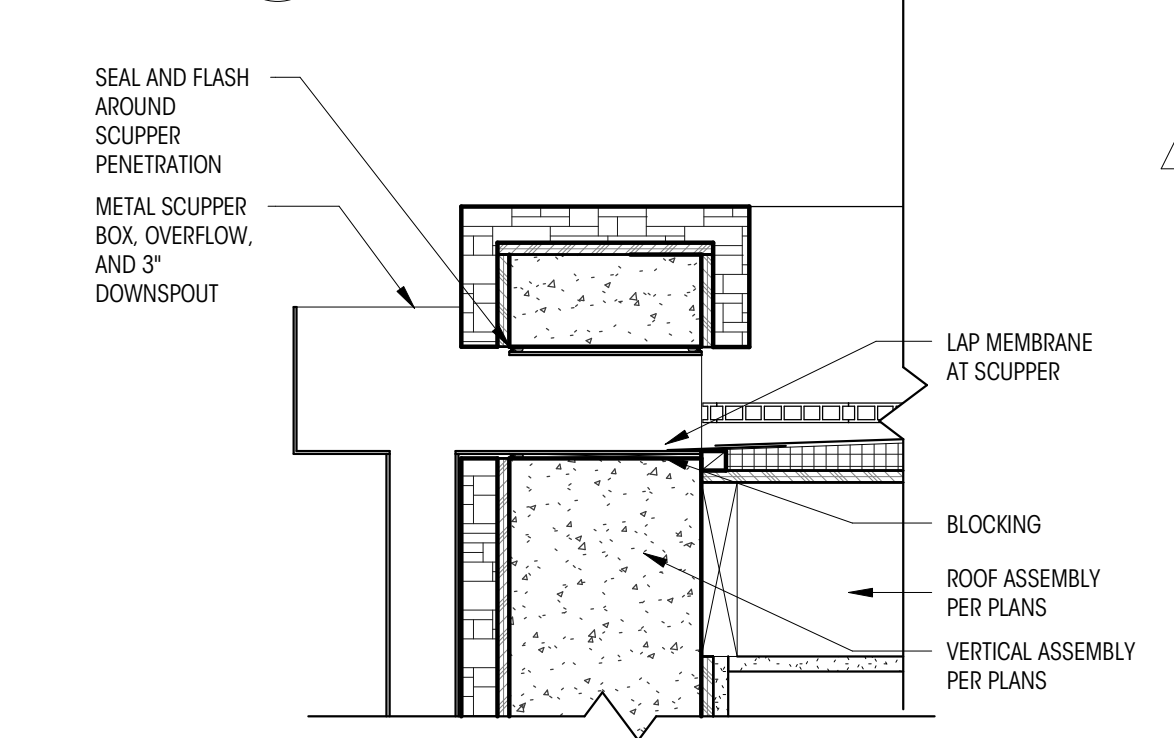
ENERGY CREDITS 5A:
ALL SHOWERHEAD AND KITCHEN SINK FAUCETS INSTALLED IN THE HOUSE SHALL BE RATED AT 1.75 GPM OR LESS. ALL OTHER LAVATORY FAUCETS SHALL BE RATED AT 1.0 GPM OR LESS. PLUMBING FIXTURES FLOW RATINGS, LOW FLOW PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:
1. RESIDENTIAL BATHROOM LAVATORY SINK FAUCETS: MAXIMUM FLOW RATE - 3.8L/MIN (1.0 GAL/MIN) WHEN TESTED IN ACCORDANCE WITH ASME A112.18.1/CSA B125.1
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3. RESIDENTIAL SHOWERHEADS: MAXIMUM FLOW RATE - 6.6L/MIN (1.75 GAL/MIN) WHEN TESTED IN ACCORDANCE WITH A112.18.1/CSA B125.1

REVISIONS

NO.	DESCRIPTION	DATE
3	PERMIT REVISION 1	04.19.22
4	REV 1 SUB 2	06.10.22
6	PERMIT REVISION 2	07.06.23
7	PERMIT REV. 2 SUB 2	11.07.23



1 PROPOSED ROOF PLAN
1/4" = 1'-0"



2 DTL_SCUPPER DETAIL
1 1/2" = 1'-0"

SCOPE OF CHANGES:

- ADDITION OF JULIET BALCONY BELOW

LEGEND

- 200A WINDOW ID
- 100A DOOR ID
- 100A FINISH ID
- SMOKE DETECTOR
- SMOKE/CARBON MONOXIDE DETECTOR
- FAN - 100 CFM U.N.O.
- PROPOSED UPPER LEVEL 150% (PER 19.02.020.D.2.a)
- ELEVATION DATUM (EL= 148.5' (+0'-0") MAIN LEVEL FIN. FLR.)
- GRIDLINE
- NEW WALL
- PLANTER AREA
- ROOF LINE ABOVE
- LANDSCAPING
- DENSE PLANTING

NOTES

- ALL DIMENSIONS AT EXTERIOR WALLS TO FACE OF FRAMING OR TO EXT. FACE OF CONCRETE, U.N.O.
 - ALL DIMENSIONS AT INTERIOR WALLS TO FACE OF FINISH (5/8" GWB ASSUMED AT EA. SIDE OF WALL) OR TO FACE OF CONCRETE, U.N.O.
 - ALL DIMENSIONS AT KITCHEN TO EDGE OF COUNTERTOPS, U.N.O.
- RA1o PRE-MANUFACTURED 3'-0" HIGH GUARDRAIL TO RESTRICT PASSAGE OF A 4" SPHERE. CONTRACTOR SHALL VERIFY TO INSPECTOR ALL GUARDS AND RAILINGS SHALL BE CAPABLE OF RESISTING 200LBS ON TOP RAIL ACTING IN ANY DIRECTION AS REQUIRED BY IRC R301.5, TYP. DESIGN AND CONNECTION UNDER DEFERRED SUBMITTAL.
- RA1b HANDRAIL @ 3'-0" ABOVE STAIR NOSING PER IRC R311.7.8, TYP.
- FI1o UL LISTED GAS FIREPLACE SHALL BE DIRECT VENTED AND INSTALLED PER MANUFACTURERS' REQUIREMENTS, PER IRC G2406.2.1

ROOF VENTILATION CALCS

REQUIRED VENTILATION - 1 SF/300 SF OF TOTAL ROOF AREA

TOTAL ATTIC/CONDITIONED AREA = 2306 SF
REQUIRED VENTILATION = 2306/300 = 7.69 SF = 1105.92 SQ. IN.
RIDGE 1/3RD = 1105.92 SF X .33 = 364.95 SQ. IN.
SOFFIT/EAVE 2/3RD = 1114 SF X .66 = 729.90 SQ. IN.

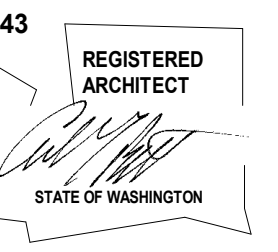
SOFFIT/EAVE BLOCKING VENTILATION
1.5" HOLE = 1.77 SQ. IN. / 729.90 SQ. IN./1.77 SQ. IN. = 420 HOLES REQUIRED
233.58 LF/420 HOLES = 1 HOLE PER 6.47'

PROPOSED VENTILATION - 1.5" HOLES @ 6 1/2" O.C.

RIDGE BLOCKING VENTILATION
1.5" HOLE = 1.77 SQ. IN. / 125.33" = 1504 LINEAR INCHES OF RIDGE
1" VENT WIDTH AT BLOCKING X 1504" OF RIDGE = 1504 SQ. IN. OF ROOF VENTING

RIDGE AND EAVE VENTING:
PROJECT RIDGES 125.33"
TOTAL VENTING LINEAR FEET 125.33'
VENTS @ 12 SQ. IN. / FT NFVA = 125.33' X 12 = 1504 SQ. IN.

COR-A-VENT REVOLUTION RIDGE VENT PROVIDES 12 SQ. IN. NFVA PER LINEAR FOOT



CLARKSON RESIDENCE
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PERMIT DRAWINGS

DATE: 06.10.22

SHEET SIZE: D (24X36)

REVISIONS

NO.	DESCRIPTION	DATE
3	PERMIT REVISION 1	04.19.22
4	REV 1 SUB 2	06.10.22
5	REV 1 SUB 3	08.30.22
6	PERMIT REVISION 2	07.06.23
7	PERMIT REV. 2 SUB 2	11.07.23

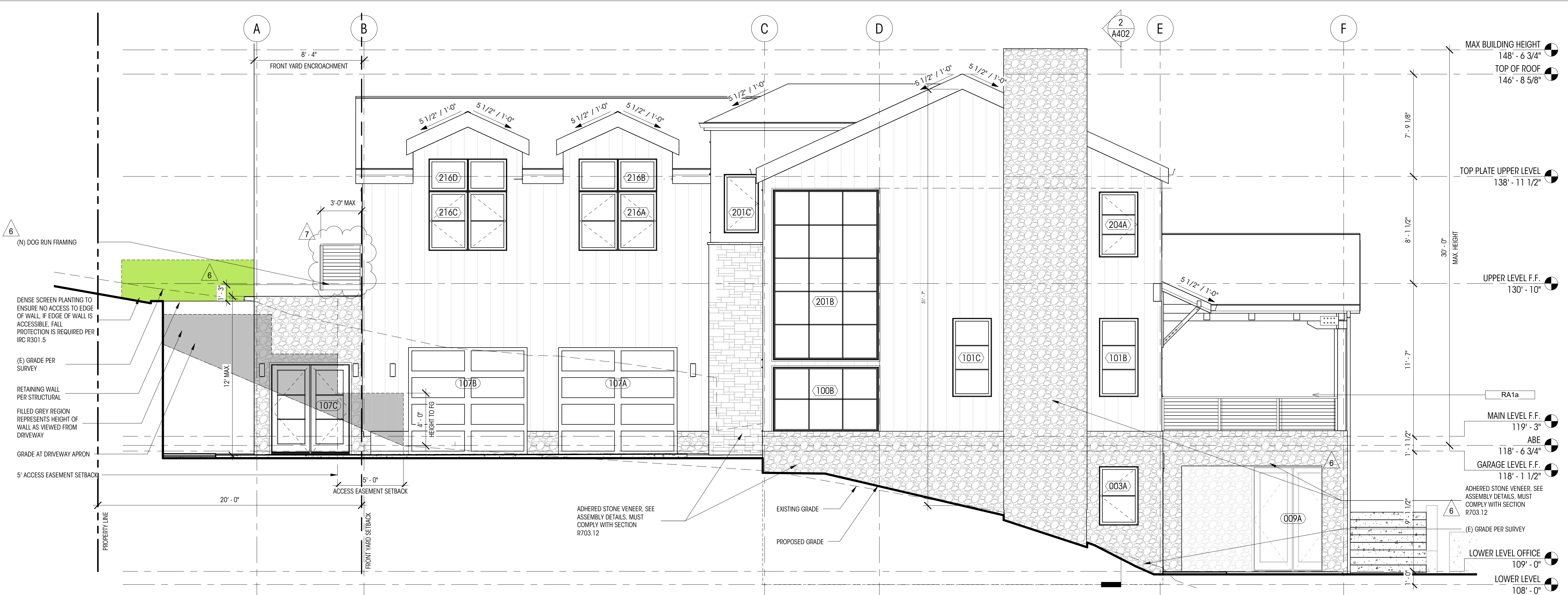
DRAWN BY: K/J/M
CHECKED BY: BM

EXTERIOR
ELEVATIONS

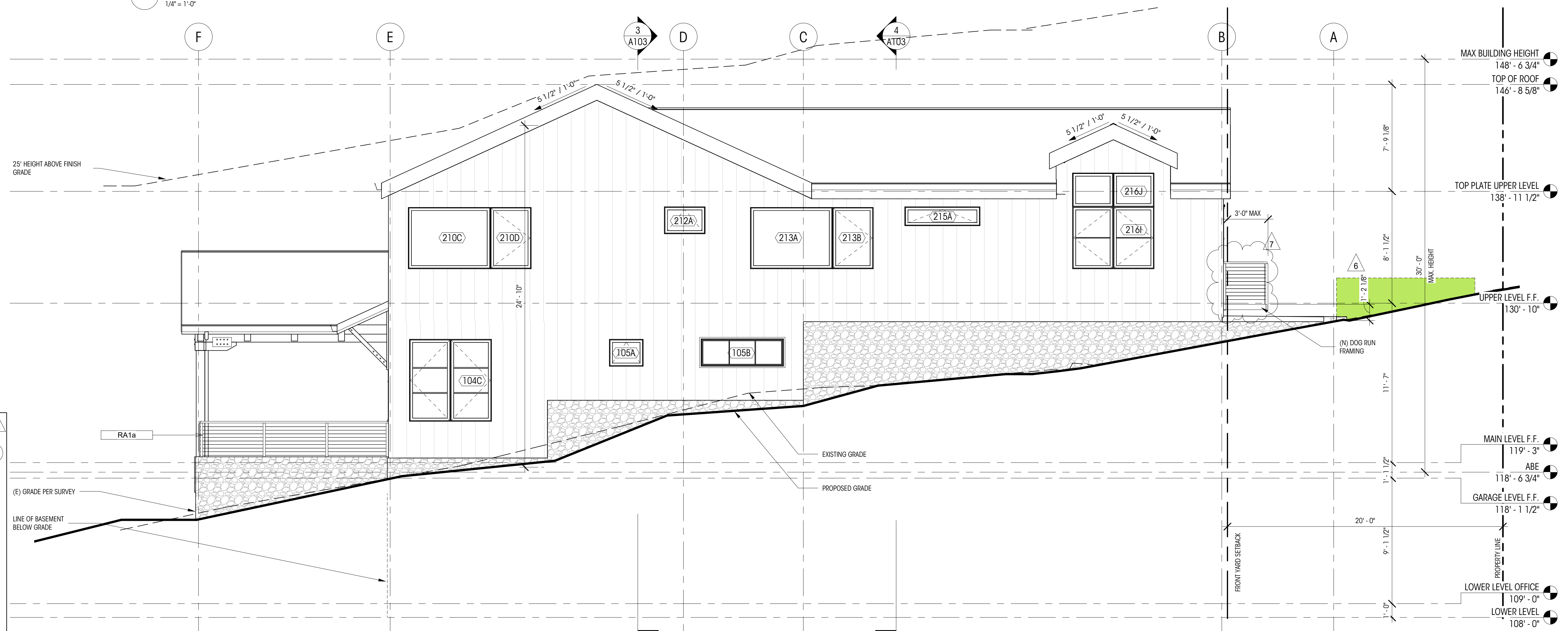
SCALE: 1/4" = 1'-0"

A300

DEDICATED
APPROVAL
STAMP SPACE



1 PROPOSED NORTH ELEVATION
1/4" = 1'-0"



2 PROPOSED SOUTH ELEVATION
1/4" = 1'-0"

SCOPE OF CHANGES:

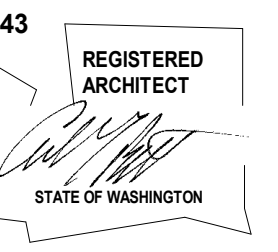
ADDITION OF JULIET BALCONY OFF OF BONUS ROOM

(N) DOG RUN FRAMING
DENSE SCREEN PLANTING TO ENSURE NO ACCESS TO EDGE OF WALL IF EDGE OF WALL IS ACCESSIBLE. FALL PROTECTION IS REQUIRED PER IRC R301.5
(E) GRADE PER SURVEY
RETAINING WALL PER STRUCTURAL
FILLED GREY REGION REPRESENTS HEIGHT OF WALL AS VIEWED FROM DRIVEWAY
GRADE AT DRIVEWAY APRON
5' ACCESS EASEMENT SETBACK
PROPERTY LINE

ADHERED STONE VENEER, SEE ASSEMBLY DETAILS, MUST COMPLY WITH SECTION R703.12
EXISTING GRADE
PROPOSED GRADE

25' HEIGHT ABOVE FINISH GRADE
(N) DOG RUN FRAMING
MAX HEIGHT

(E) GRADE PER SURVEY
LINE OF BASEMENT BELOW GRADE



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6	PERMIT REVISION 2	07.06.23
7	PERMIT REV. 2 SUB 2	11.07.23

DRAWN BY: K/J/M
CHECKED BY: BM

EXTERIOR ELEVATIONS

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

A301

DEDICATED
APPROVAL
STAMP SPACE



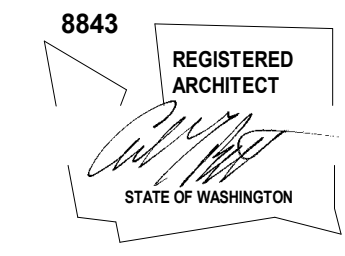
1 PROPOSED EAST ELEVATION
1/4" = 1'-0"



2 PROPOSED WEST ELEVATION
1/4" = 1'-0"

SCOPE OF CHANGES:

- ADDITION OF JULIET BALCONY OFF OF BONUS ROOM



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DATE: 06.10.22

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3	PERMIT REVISION 1	04.19.22
4	REV 1 SUB 2	06.10.22
5	REV 1 SUB 3	08.30.22
6	PERMIT REVISION 2	07.06.23

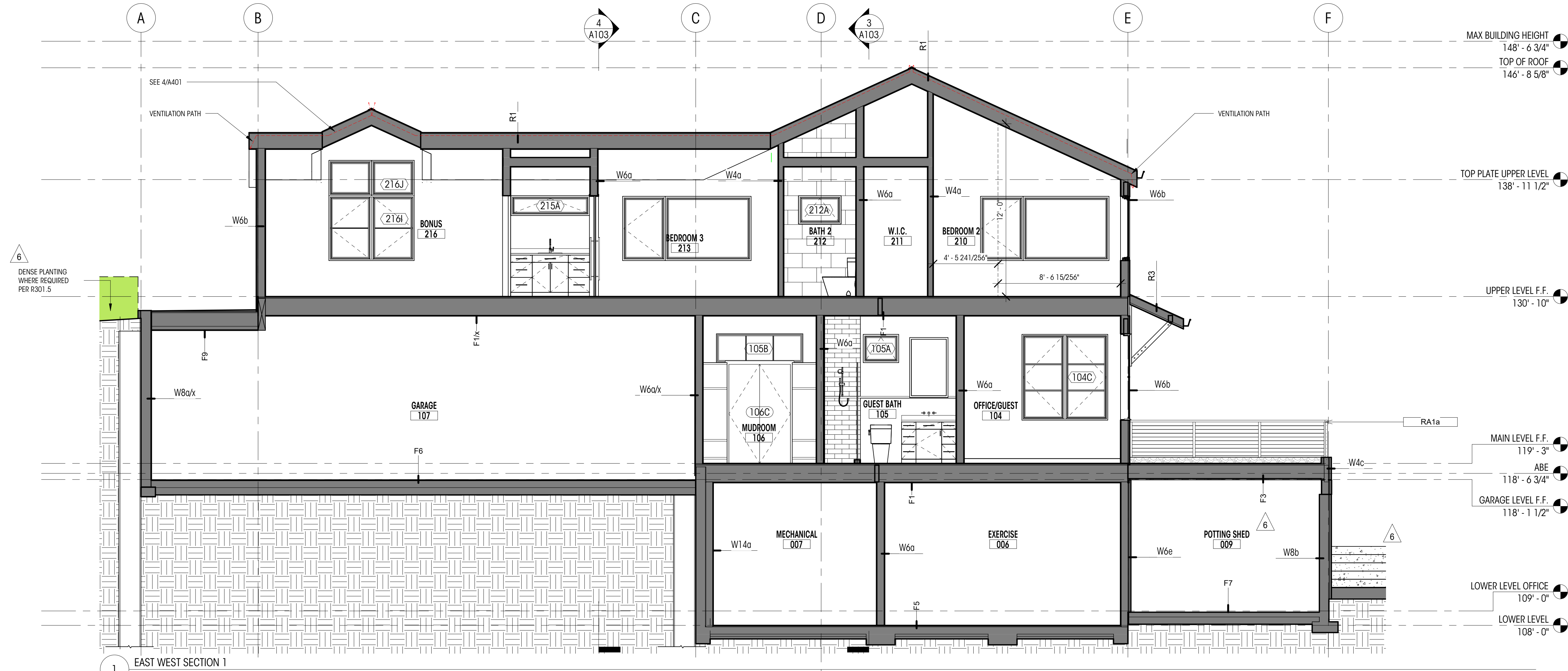
DRAWN BY: KJ/JM
CHECKED BY: BM

BUILDING SECTIONS

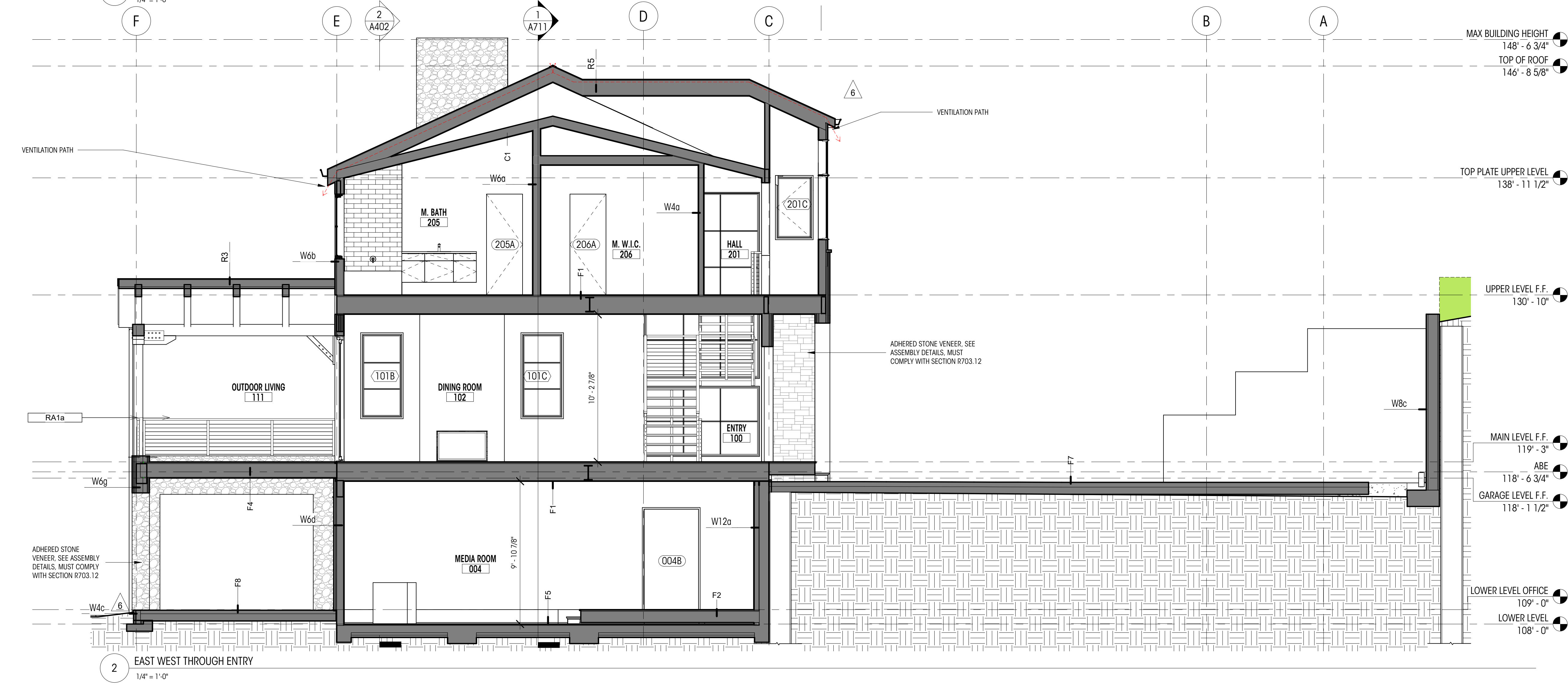
SCALE: 1/4" = 1'-0"

A400

DEDICATED
APPROVAL
STAMP SPACE

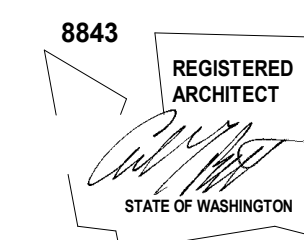


1 EAST WEST SECTION 1
1/4" = 1'-0"



2 EAST WEST THROUGH ENTRY
1/4" = 1'-0"

SCOPE OF CHANGES :
NO CHANGES TO THIS SHEET



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DATE: 06.10.22

SHEET SIZE: D (24X36)

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NO.	DESCRIPTION	DATE
3	PERMIT REVISION 1	04.19.22
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6	PERMIT REVISION 2	07.06.23

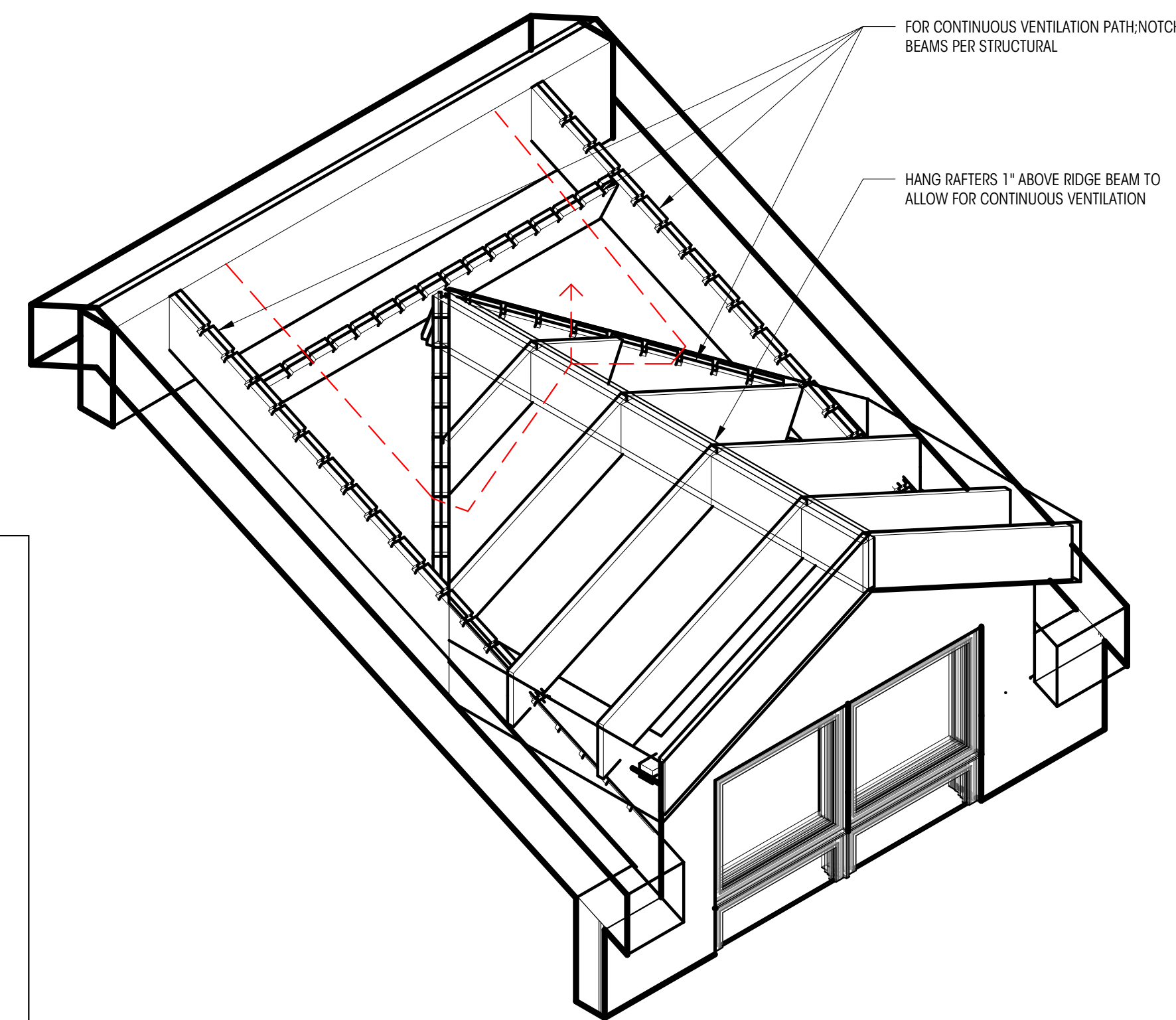
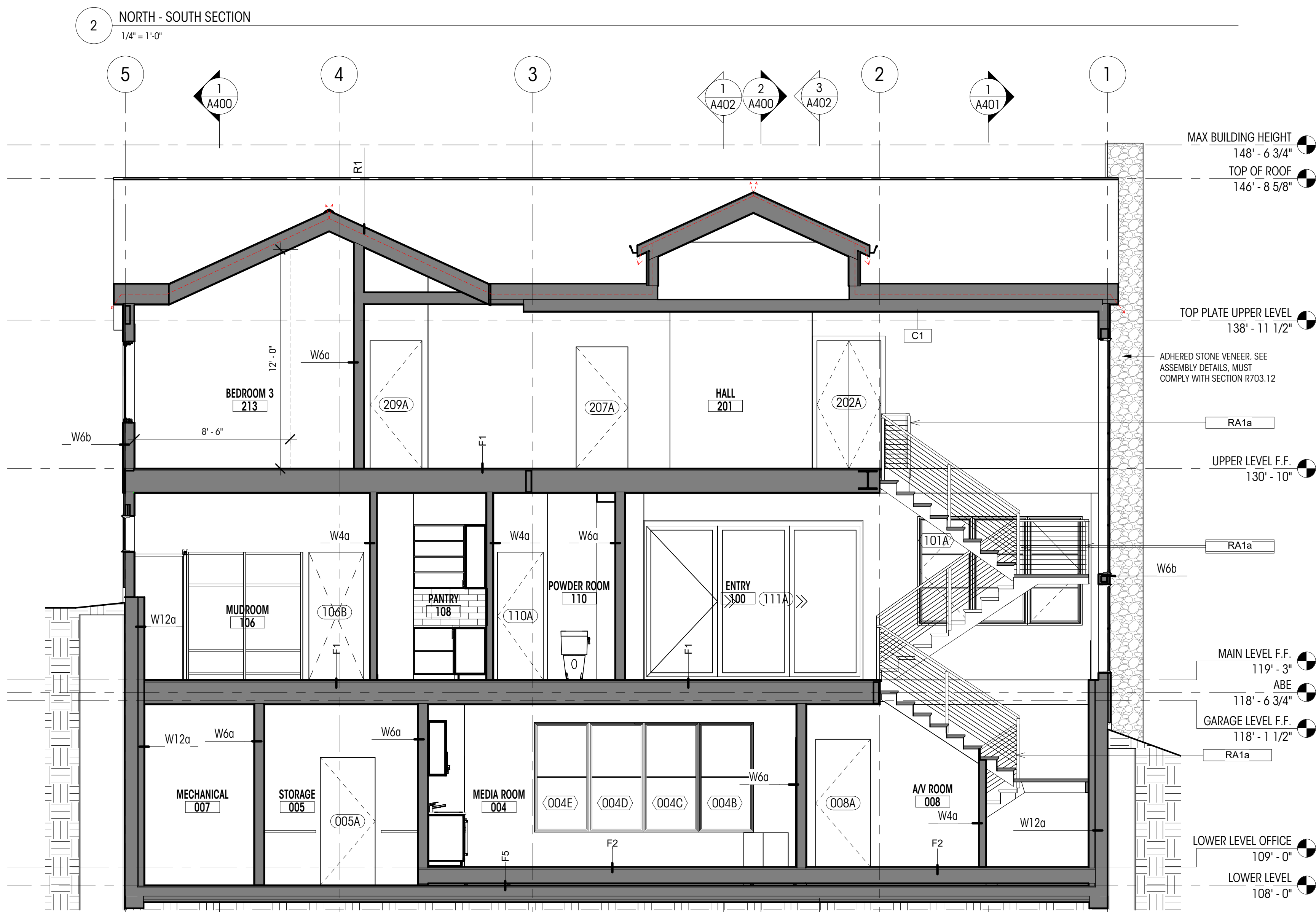
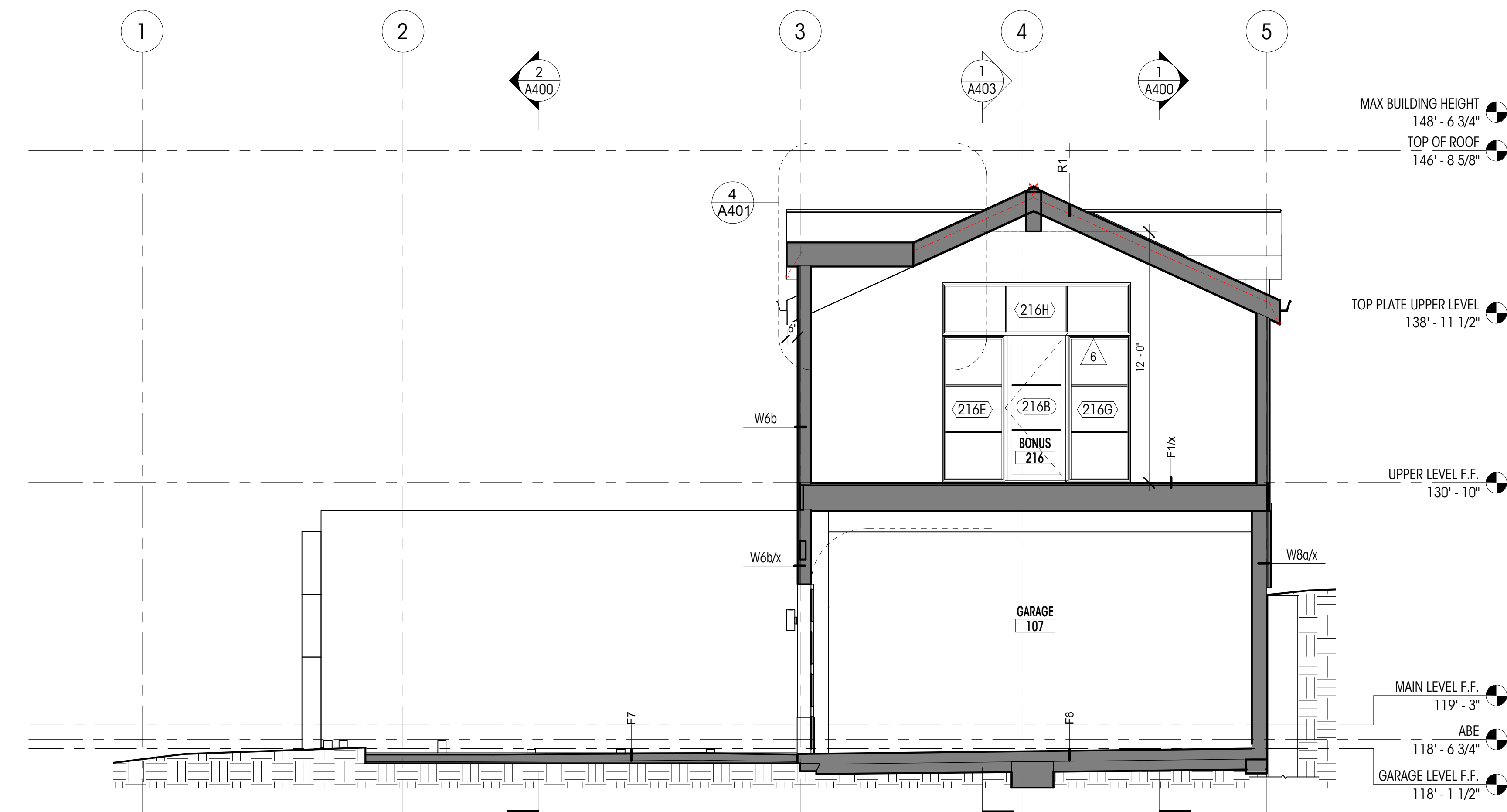
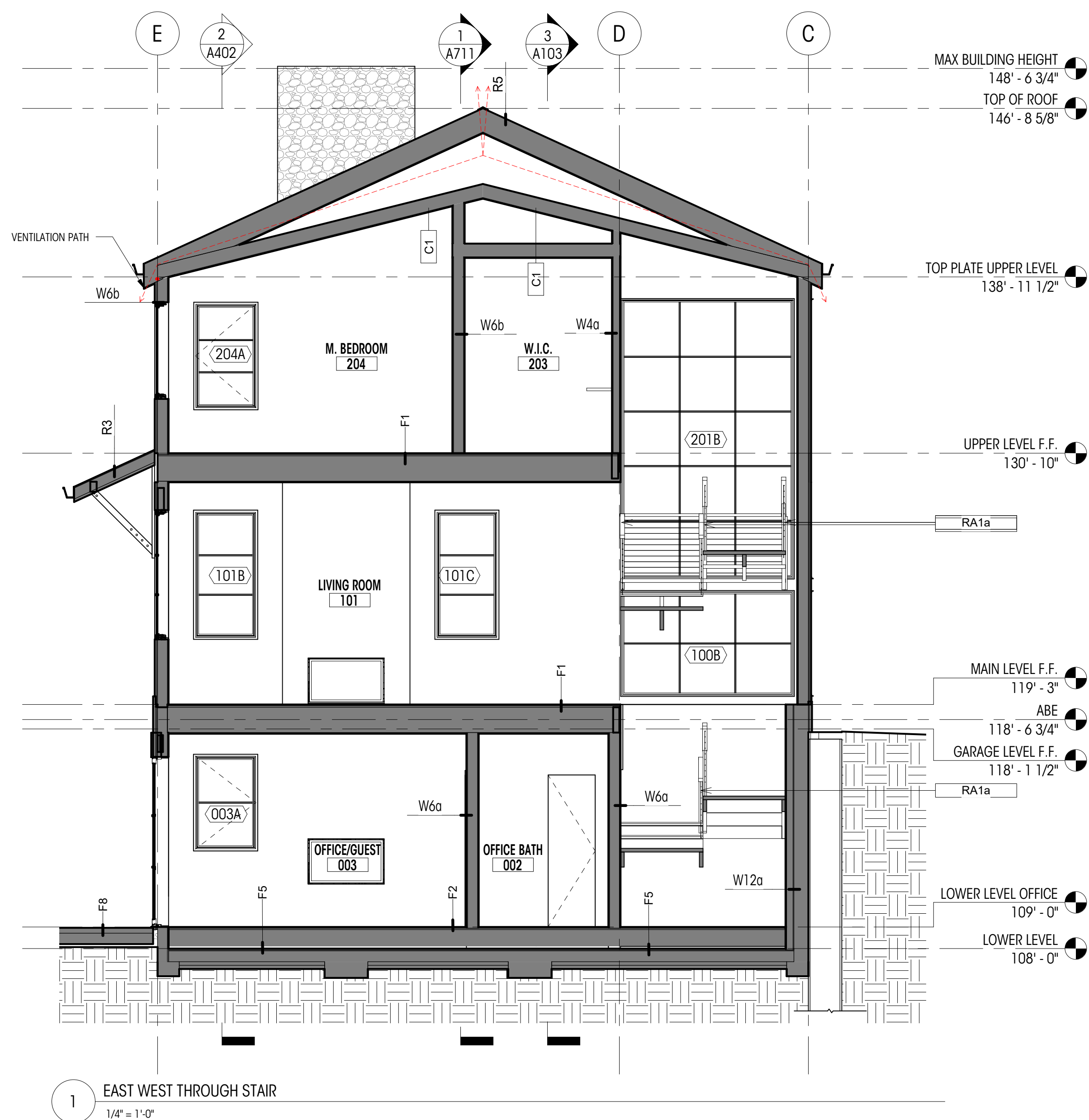
DRAWN BY: KJ/JM
CHECKED BY: BM

BUILDING SECTIONS

SCALE: As indicated

A401

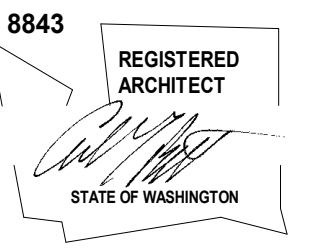
DEDICATED
APPROVAL
STAMP SPACE



SCOPE OF CHANGES :
NO CHANGES TO THIS SHEET

4 DORMER VENTILATION ISOMETRIC DETAIL

3 NORTH - SOUTH THROUGH STAIR
1/4" = 1'-0"



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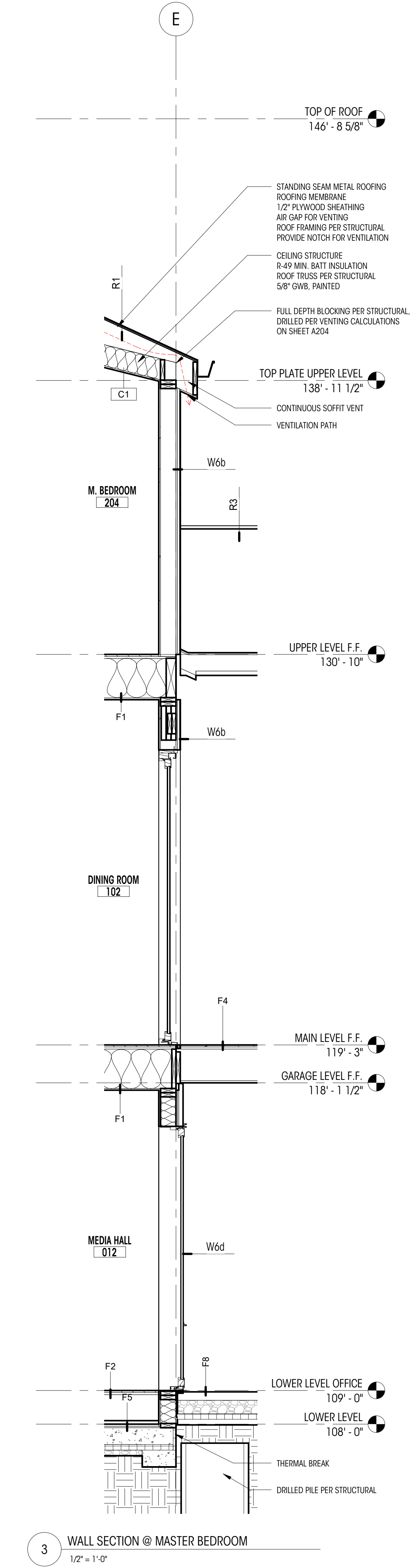
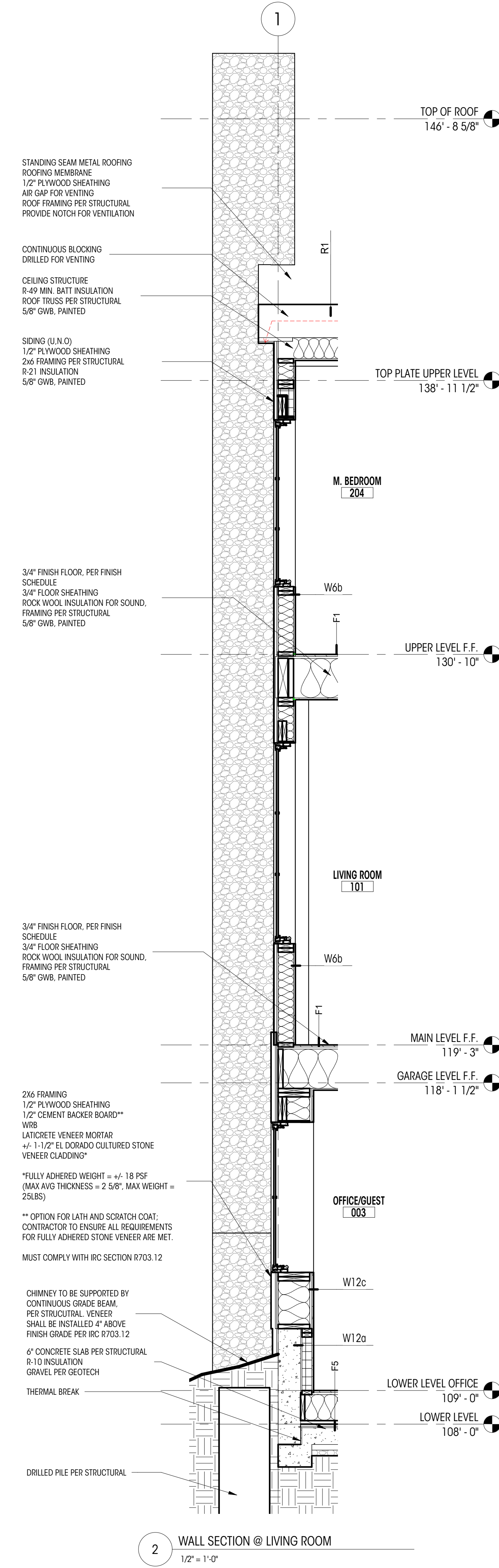
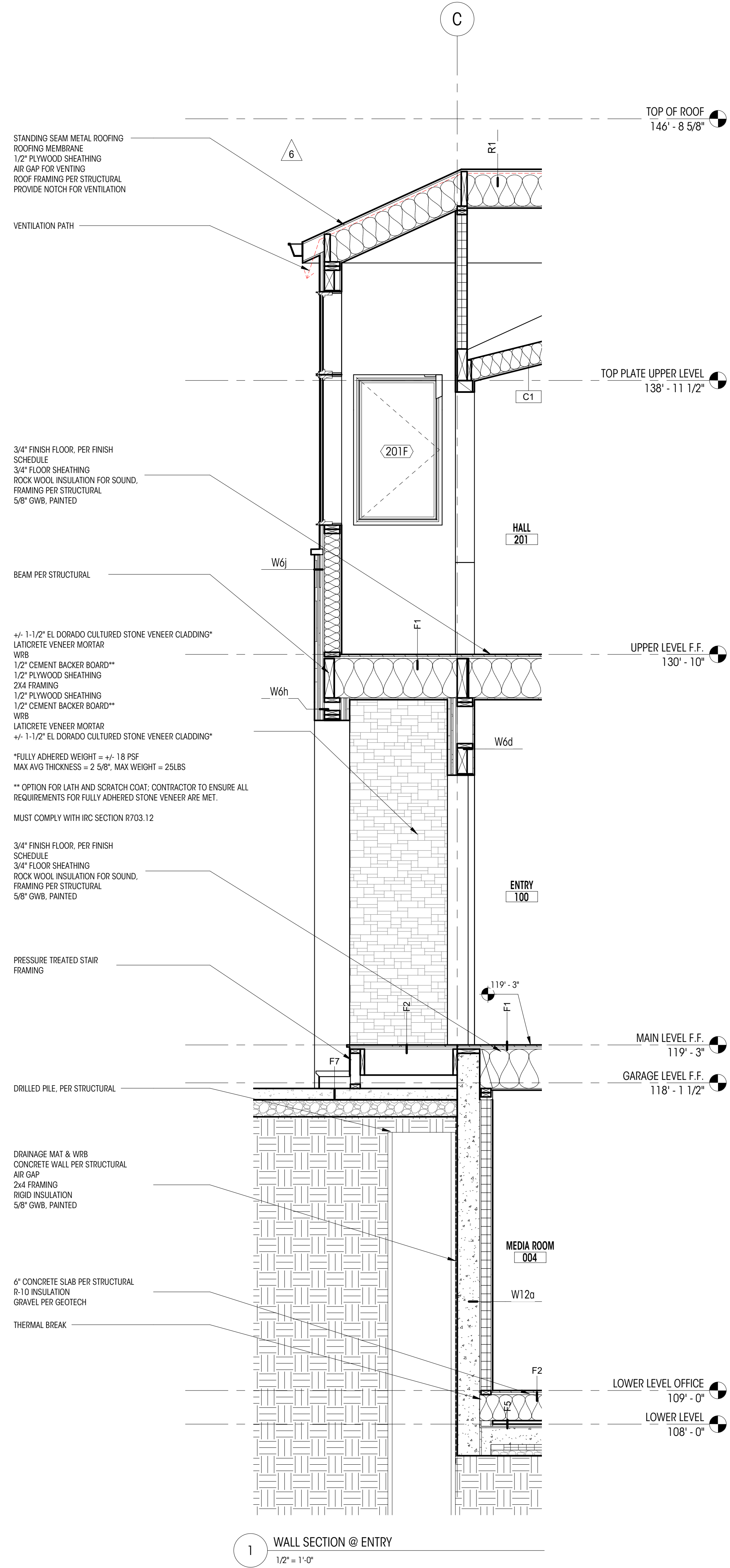
DRAWN BY: K/JM
CHECKED BY: BM

WALL SECTIONS

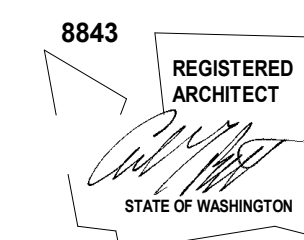
SCALE: 1/2" = 1'-0"

A402

DEDICATED
APPROVAL
STAMP SPACE



SCOPE OF CHANGES :
NO CHANGES TO THIS SHEET



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PERMIT DRAWINGS

DATE: 06.10.22

SHEET SIZE: D (24X36)

REVISIONS		
NO.	DESCRIPTION	DATE
6	PERMIT REVISION 2	07.06.23
7	PERMIT REV. 2 SUB 2	11.07.23

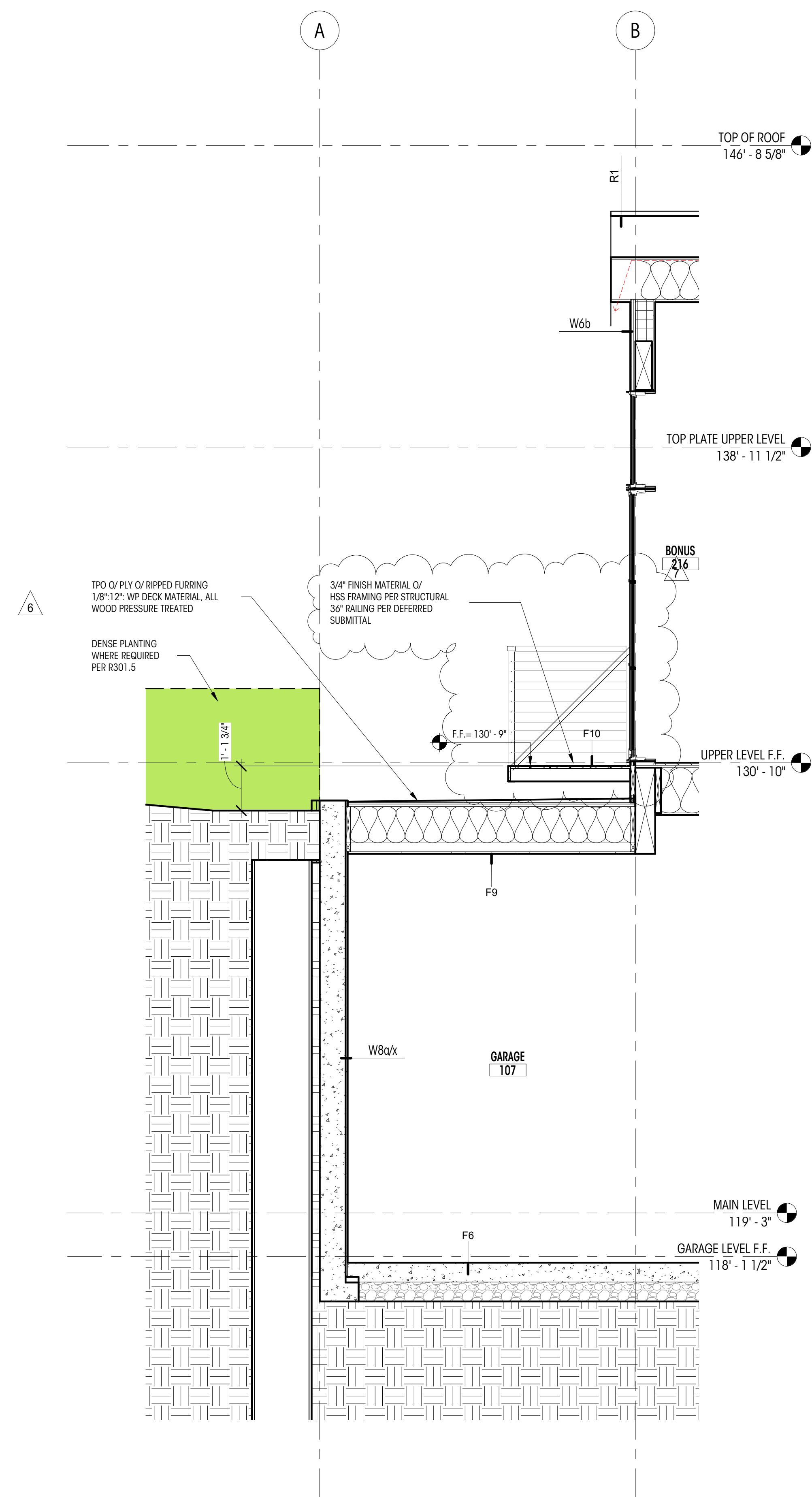
DRAWN BY: KJ/JM
CHECKED BY: BM

WALL SECTIONS

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

A403

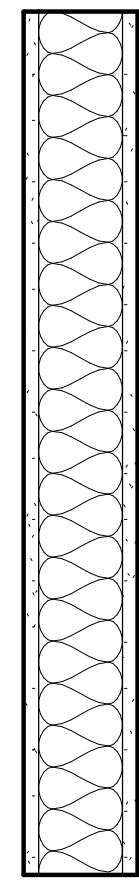
DEDICATED
APPROVAL
STAMP SPACE



1 WALL SECTION AT DOG RUN
1/2" = 1'-0"

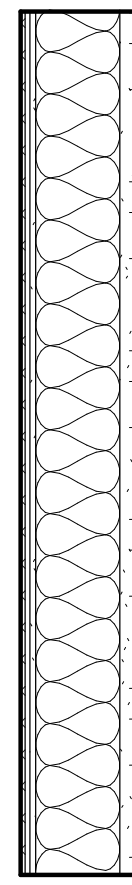
SCOPE OF CHANGES :
• ADDITION OF JULIET BALCONY AT BONUS ROOM

VERTICAL ASSEMBLIES



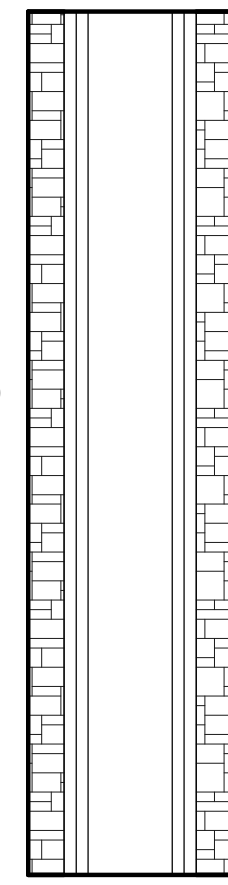
- 5/8" GWB, PAINTED
- 2x6 FRAMING
- ROCK WOOL INSULATION (FOR SOUND)
- 5/8" GWB, PAINTED

W4a



- 3/16" TILE
- 3/16" MORTAR BED
- 1/4" CEMENT BOARD
- 2x4 FRAMING
- ROCK WOOL INSULATION (FOR SOUND)
- 5/8" GWB, PAINTED

W4b



- +/- 1 1/2" EL DORADO CULTURED STONE
- LATICRETE VENEER MORTAR
- 1/2" CEMENT BOARD
- 2x4 FRAMING
- 1/2" CEMENT BOARD
- LATICRETE VENEER MORTAR
- +/- 1 1/2" EL DORADO CULTURED STONE

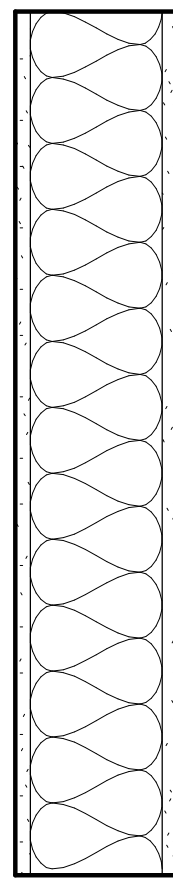
*FULLY ADHERED WEIGHT = +/- 18 PSF (MAX AVG THICKNESS = 2 5/8", MAX WEIGHT = 25LBS)

** OPTION FOR LATH AND SCRATCH COAT: CONTRACTOR TO ENSURE ALL REQUIREMENTS FOR FULLY ADHERED STONE VENEER ARE MET.

MUST COMPLY WITH IRC SECTION R703.12

W4c

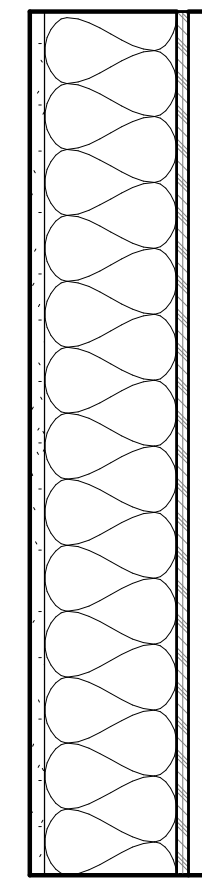
(DECK CURB)



- 5/8" GWB, PAINTED
- 2x6 FRAMING
- ROCK WOOL INSULATION (FOR SOUND)
- 5/8" GWB, PAINTED

W6a

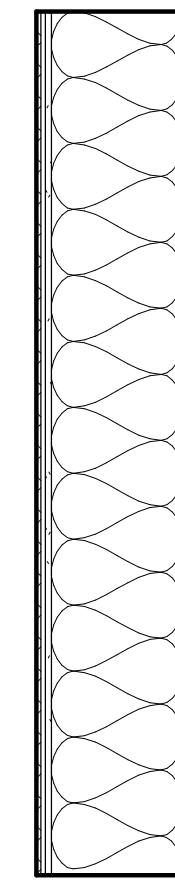
(*'X' WHERE TYPE X GWB)



- 5/8" GWB, PAINTED
- 2x6 FRAMING
- R-21 MIN INSULATION
- 1/2" PLYWOOD SHEATHING
- WRB
- 1" VERTICAL FURRING STRIP
- EXTERIOR SIDING - TBD

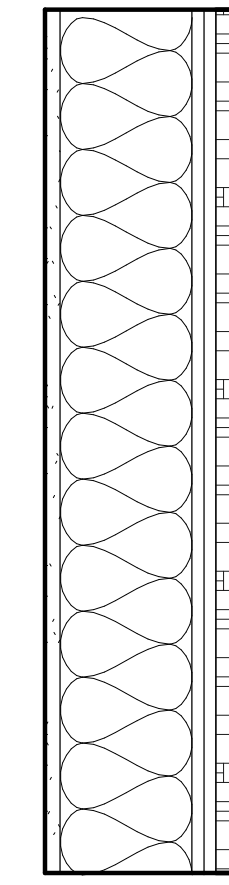
W6b

(*'X' WHERE TYPE X GWB)



- 3/16" TILE
- 3/16" MORTAR BED
- 1/4" CEMENT BOARD
- 2x6 FRAMING
- ROCK WOOL INSULATION (FOR SOUND)
- 5/8" GWB, PAINTED

W6c



- 5/8" TYPE "X" GWB, PAINTED
- 2x6 FRAMING
- 1/2" PLYWOOD
- 1/2" LATICRETE VENEER MORTAR
- +/- 1 1/2" EL DORADO CULTURED STONE
- DRAINAGE MAT & WRB

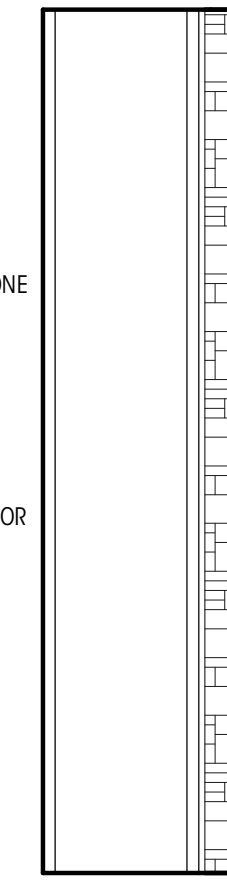
*FULLY ADHERED WEIGHT = +/- 18 PSF (MAX AVG THICKNESS = 2 5/8", MAX WEIGHT = 25LBS)

** OPTION FOR LATH AND SCRATCH COAT: CONTRACTOR TO ENSURE ALL REQUIREMENTS FOR FULLY ADHERED STONE VENEER ARE MET.

MUST COMPLY WITH IRC SECTION R703.12

W6d

(*'X' WHERE TYPE X GWB)



- 2x6 FRAMING
- 1/2" PLYWOOD
- +/- 1 1/2" EL DORADO CULTURED STONE
- DRAINAGE MAT & WRB

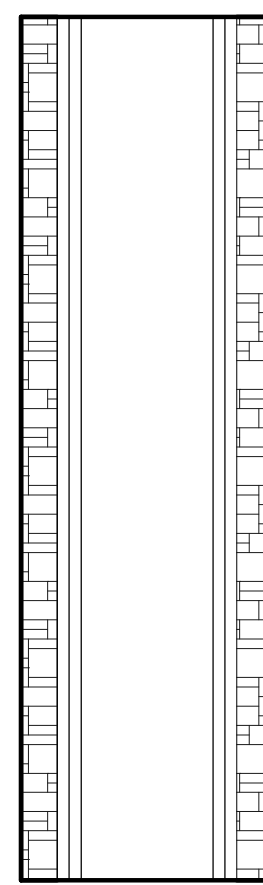
*FULLY ADHERED WEIGHT = +/- 18 PSF (MAX AVG THICKNESS = 2 5/8", MAX WEIGHT = 25LBS)

** OPTION FOR LATH AND SCRATCH COAT: CONTRACTOR TO ENSURE ALL REQUIREMENTS FOR FULLY ADHERED STONE VENEER ARE MET.

MUST COMPLY WITH IRC SECTION R703.12

W6e

6



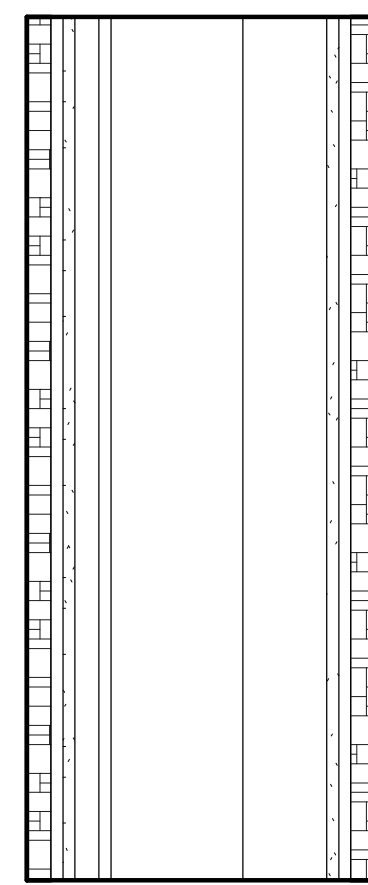
- +/- 1-1/2" EL DORADO CULTURED STONE VENEER CLADDING*
- 1/2" LATICRETE VENEER MORTAR
- WRB
- 1/2" PLYWOOD SHEATHING
- 2x6 FRAMING
- 1/2" PLYWOOD SHEATHING
- WRB
- 1/2" LATICRETE VENEER MORTAR
- +/- 1-1/2" EL DORADO CULTURED STONE VENEER CLADDING*

*FULLY ADHERED WEIGHT = +/- 18 PSF (MAX AVG THICKNESS = 2 5/8", MAX WEIGHT = 25LBS)

** OPTION FOR LATH AND SCRATCH COAT: CONTRACTOR TO ENSURE ALL REQUIREMENTS FOR FULLY ADHERED STONE VENEER ARE MET.

MUST COMPLY WITH IRC SECTION R703.12

W6f



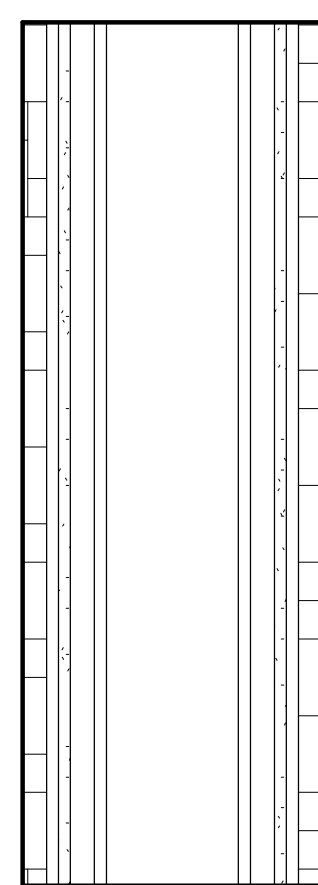
- +/- 1-1/2" EL DORADO CULTURED STONE VENEER CLADDING*
- 1/2" LATICRETE VENEER MORTAR
- 1/2" CEMENTITIOUS BACKER BOARD
- WRB
- 2x4 FRAMING
- 2x6 FRAMING
- 1/2" PLYWOOD SHEATHING
- WRB
- 1" FURRING
- 1/2" CEMENTITIOUS BACKER BOARD
- 1/2" LATICRETE VENEER MORTAR
- +/- 1-1/2" EL DORADO CULTURED STONE VENEER CLADDING*

*FULLY ADHERED WEIGHT = +/- 18 PSF (MAX AVG THICKNESS = 2 5/8", MAX WEIGHT = 25LBS)

** OPTION FOR LATH AND SCRATCH COAT: CONTRACTOR TO ENSURE ALL REQUIREMENTS FOR FULLY ADHERED STONE VENEER ARE MET.

MUST COMPLY WITH IRC SECTION R703.12

W6g



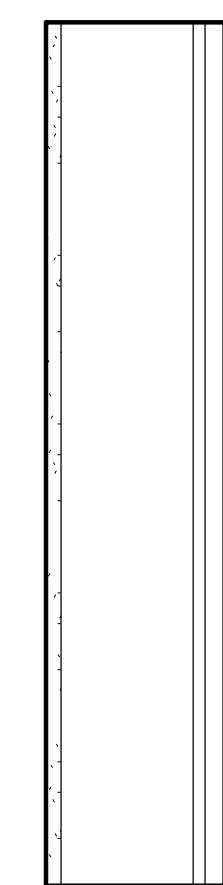
- +/- 1-1/2" EL DORADO CULTURED STONE VENEER CLADDING*
- 1/2" LATICRETE VENEER MORTAR
- 1/2" CEMENTITIOUS BACKER BOARD
- 1" FURRING
- WRB
- 1/2" PLYWOOD SHEATHING
- 2x6 FRAMING
- 1/2" PLYWOOD SHEATHING
- WRB
- 1" FURRING
- 1/2" CEMENTITIOUS BACKER BOARD
- 1/2" LATICRETE VENEER MORTAR
- +/- 1-1/2" EL DORADO CULTURED STONE VENEER CLADDING*

*FULLY ADHERED WEIGHT = +/- 18 PSF (MAX AVG THICKNESS = 2 5/8", MAX WEIGHT = 25LBS)

** OPTION FOR LATH AND SCRATCH COAT: CONTRACTOR TO ENSURE ALL REQUIREMENTS FOR FULLY ADHERED STONE VENEER ARE MET.

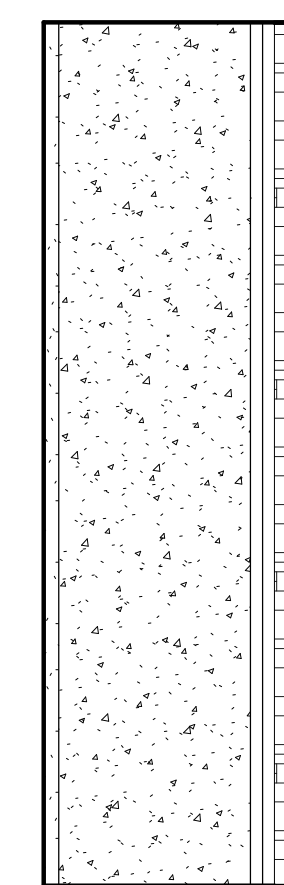
MUST COMPLY WITH IRC SECTION R703.12

W6h



- 1/2" RICH-LITE
- 3/4" FURRING
- WRB
- 1/2" PLYWOOD SHEATHING
- 2x6 FRAMING
- 1/2" PLYWOOD SHEATHING
- WRB
- 5/8" GWB, PAINTED

W6j



- 5/8" TYPE "X" GWB, PAINTED
- 8" CONCRETE WALL PER STRUCTURAL
- 1/2" PLYWOOD
- 1/2" LATICRETE VENEER MORTAR
- +/- 1 1/2" EL DORADO CULTURED STONE
- DRAINAGE MAT & WRB

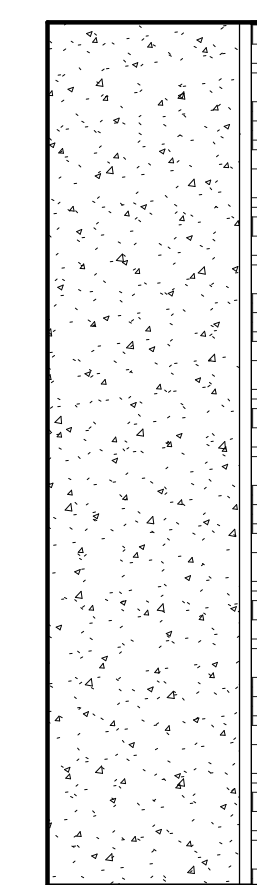
*FULLY ADHERED WEIGHT = +/- 18 PSF (MAX AVG THICKNESS = 2 5/8", MAX WEIGHT = 25LBS)

** OPTION FOR LATH AND SCRATCH COAT: CONTRACTOR TO ENSURE ALL REQUIREMENTS FOR FULLY ADHERED STONE VENEER ARE MET.

MUST COMPLY WITH IRC SECTION R703.12

W8a

(*'X' WHERE TYPE X GWB)



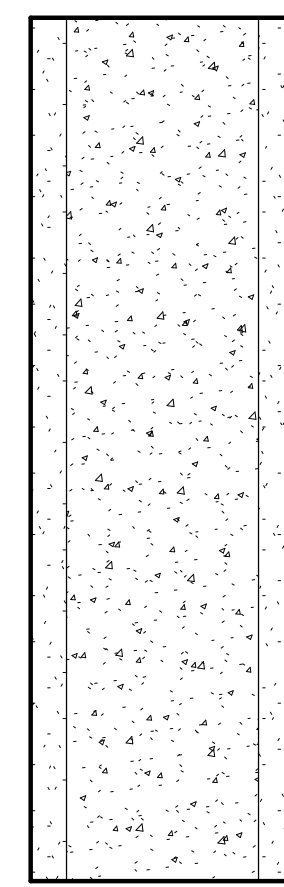
- 8" CONCRETE
- 1/2" LATICRETE VENEER MORTAR
- +/- 1-1/2" EL DORADO CULTURED STONE VENEER CLADDING*

*FULLY ADHERED WEIGHT = +/- 18 PSF (MAX AVG THICKNESS = 2 5/8", MAX WEIGHT = 25LBS)

** OPTION FOR LATH AND SCRATCH COAT: CONTRACTOR TO ENSURE ALL REQUIREMENTS FOR FULLY ADHERED STONE VENEER ARE MET.

MUST COMPLY WITH IRC SECTION R703.12

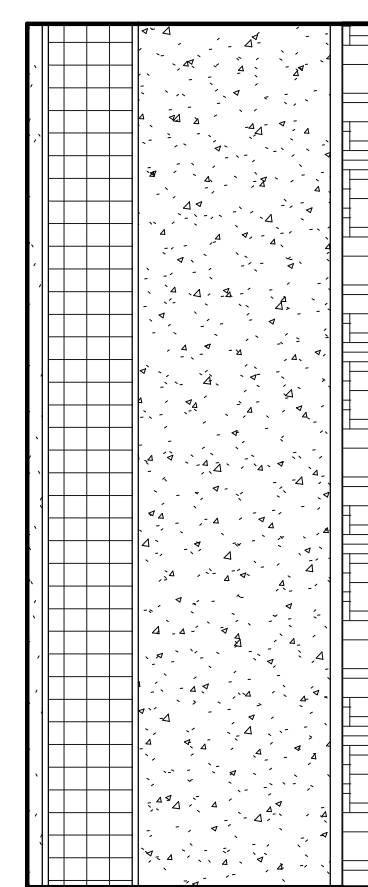
W8b



- 1 1/2" PLASTER
- 8" CONCRETE WALL PER STRUCTURAL
- 1 1/2" PLASTER

W8c

(DRIVEWAY PERIMETER)



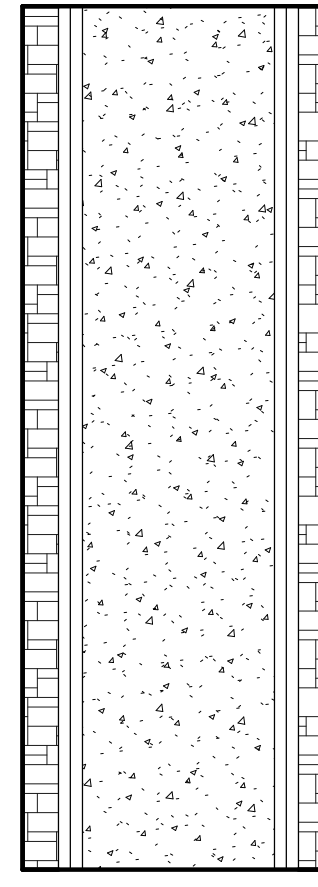
- 5/8" GWB, PAINTED
- 2x4 FURRING
- R-21 INSULATION
- 1/2" AIRGAP
- 8" CONCRETE WALL PER STRUCTURAL
- 1/2" LATICRETE VENEER MORTAR
- +/- 1-1/2" EL DORADO CULTURED STONE VENEER CLADDING*

*FULLY ADHERED WEIGHT = +/- 18 PSF (MAX AVG THICKNESS = 2 5/8", MAX WEIGHT = 25LBS)

** OPTION FOR LATH AND SCRATCH COAT: CONTRACTOR TO ENSURE ALL REQUIREMENTS FOR FULLY ADHERED STONE VENEER ARE MET.

MUST COMPLY WITH IRC SECTION R703.12

W12a



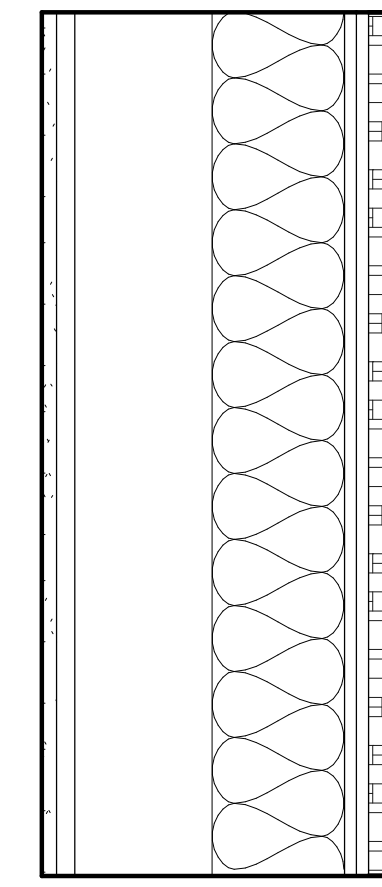
- +/- 1-1/2" EL DORADO CULTURED STONE VENEER CLADDING*
- 1/2" LATICRETE VENEER MORTAR
- 8" CONCRETE WALL
- 1/2" LATICRETE VENEER MORTAR
- +/- 1-1/2" EL DORADO CULTURED STONE VENEER CLADDING*

*FULLY ADHERED WEIGHT = +/- 18 PSF (MAX AVG THICKNESS = 2 5/8", MAX WEIGHT = 25LBS)

** OPTION FOR LATH AND SCRATCH COAT: CONTRACTOR TO ENSURE ALL REQUIREMENTS FOR FULLY ADHERED STONE VENEER ARE MET.

MUST COMPLY WITH IRC SECTION R703.12

W12b



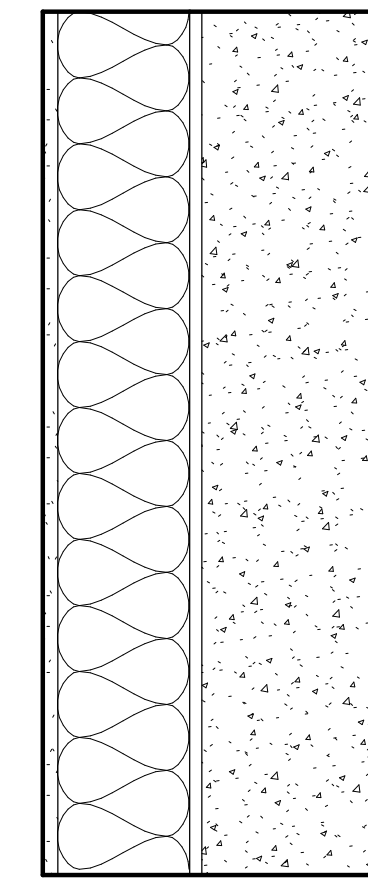
- 5/8" GWP
- 12x FRAMING
- 1/2" PLYWOOD SHEATHING
- 1/2" CEMENT BACKER BOARD**
- WRB
- LATICRETE VENEER MORTAR
- +/- 1-1/2" EL DORADO CULTURED STONE VENEER CLADDING*

*FULLY ADHERED WEIGHT = +/- 18 PSF (MAX AVG THICKNESS = 2 5/8", MAX WEIGHT = 25LBS)

** OPTION FOR LATH AND SCRATCH COAT: CONTRACTOR TO ENSURE ALL REQUIREMENTS FOR FULLY ADHERED STONE VENEER ARE MET.

MUST COMPLY WITH IRC SECTION R703.12

W12c



- 5/8" GWB, PAINTED
- 2x6 FRAMING PER STRUCTURAL
- R-21 BATT INSULATION
- 1/2" AIRGAP
- 8" CONCRETE WALL PER STRUCTURAL
- DRAINAGE MAT & WRB

*FULLY ADHERED WEIGHT = +/- 18 PSF (MAX AVG THICKNESS = 2 5/8", MAX WEIGHT = 25LBS)

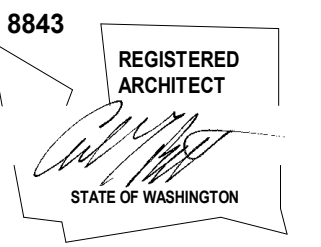
** OPTION FOR LATH AND SCRATCH COAT: CONTRACTOR TO ENSURE ALL REQUIREMENTS FOR FULLY ADHERED STONE VENEER ARE MET.

MUST COMPLY WITH IRC SECTION R703.12

W14a

SCOPE OF CHANGES:

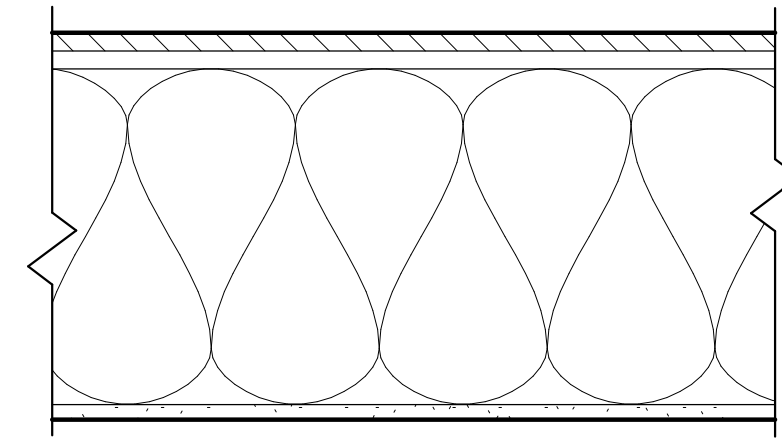
- REVISED WALL PERIMETER ON WESTERN WALL AS A RESULT OF STAIR ELIMINATION; LARGER OPENING AT PATIO; ADDITION OF BIFOLD DOOR INTO POTTING SHED.
 1. ASSEMBLY W6g ADDED.
- REVISED ENTRY VESTIBULE DESIGN.
 1. ASSEMBLY W6h & W6j ADDED.



REVISIONS

NO.	DESCRIPTION	DATE
3	PERMIT REVISION 1	04.19.22
6	PERMIT REVISION 2	07.06.23

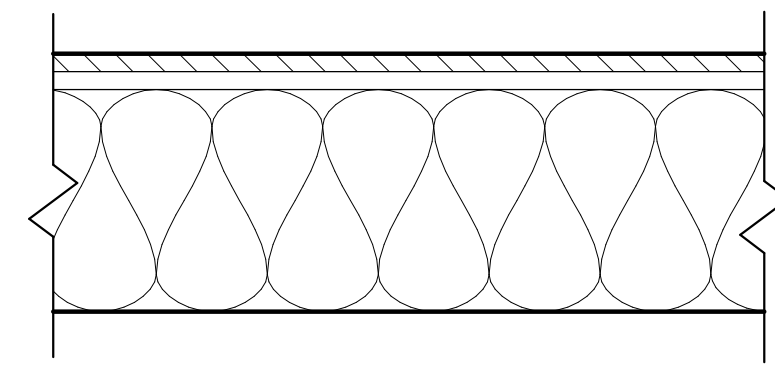
HORIZONTAL ASSEMBLIES



3/4" FINISHED FLOOR
3/4" PLYWOOD SHEATHING
1 1/4" TJI PER STRUCTURAL
ROCK WOOL INSULATION
(R-38 ABOVE THE GARAGE)
5/8" DRYWALL
(TYPE 'X' @ GARAGE)

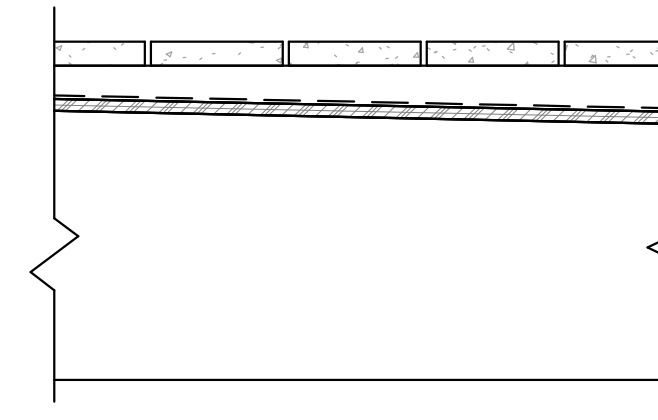
F1

(*X' WHERE TYPE X
GWB)



3/4" ENGINEERING WOOD FLOOR
3/4" PLYWOOD
ROCKWOOL INSULATION
2X10 FRAMING

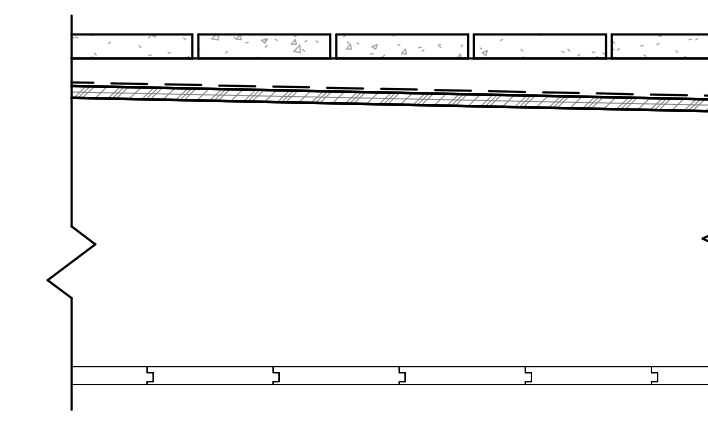
F2



PAVER TILES
RIPPED FURRING, SLOPE 1/8":12"
'DURADECK' OR APPROVED ALTERNATE MEMBRANE" @ 3/4"
PLYWOOD
FLOOR FRAMING PER STRUCT RIPPED 1/8":12"

*WATERPROOFING MUST BE APPROVED FOR USE AS A WALKING
DECK AND FOR THE INSTALLATION OF THE DECKING DIRECTLY ON
THE MEMBRANE PER ICC-ES WALKING DECKS CRITERIA

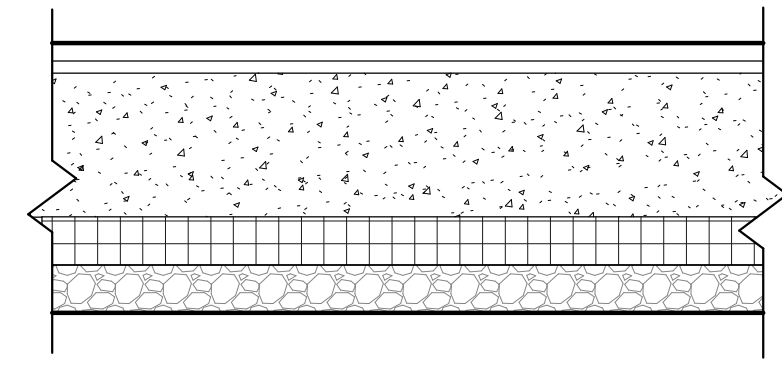
F3



PAVER TILES
RIPPED FURRING, SLOPE 1/8":12"
'DURADECK' OR APPROVED ALTERNATE MEMBRANE" @ 3/4"
PLYWOOD
FLOOR FRAMING PER STRUCT RIPPED 1/8":12"
1X CEDAR T&G STAINED

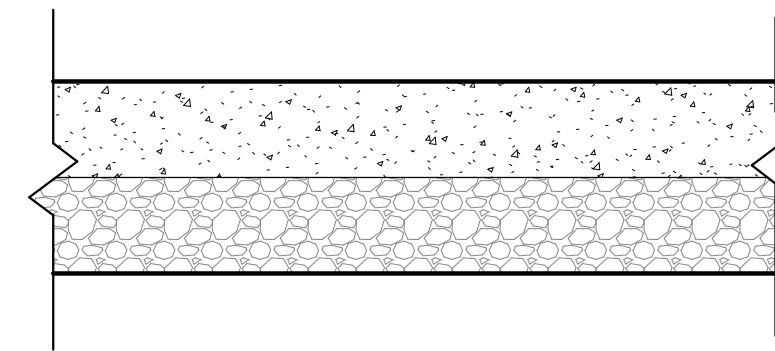
*WATERPROOFING MUST BE APPROVED FOR USE AS A WALKING
DECK AND FOR THE INSTALLATION OF THE DECKING DIRECTLY ON
THE MEMBRANE PER ICC-ES WALKING DECKS CRITERIA

F4



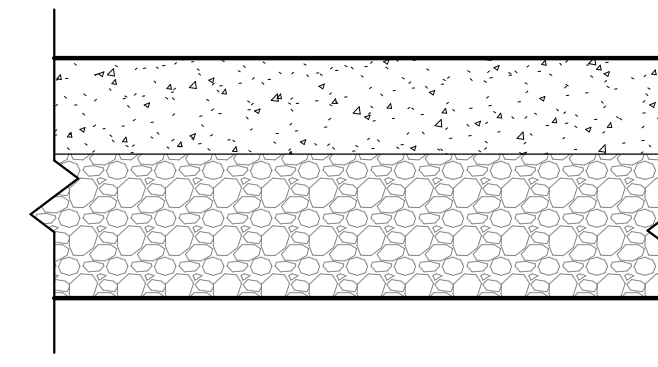
3/4" ENGINEERING WOOD FLOOR
1/2" UNDERLAYMENT
6" CONCRETE PER STRUCTURAL SLAB
VAPOR BARRIER
R-10 RIGID INSULATION
2" GRAVEL

F5



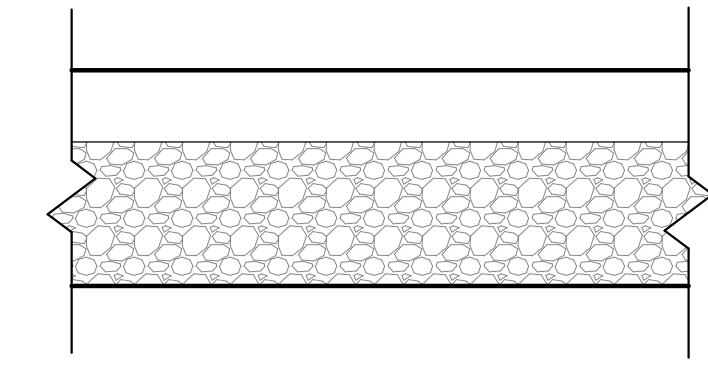
4" CONCRETE SLAB
4" GRAVEL

F6



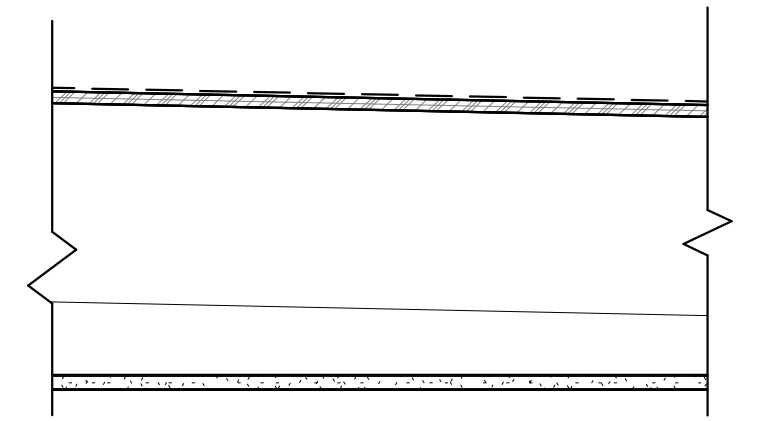
4" CONCRETE
6" GRAVEL

F7



3" PAVERS
6" GRAVEL

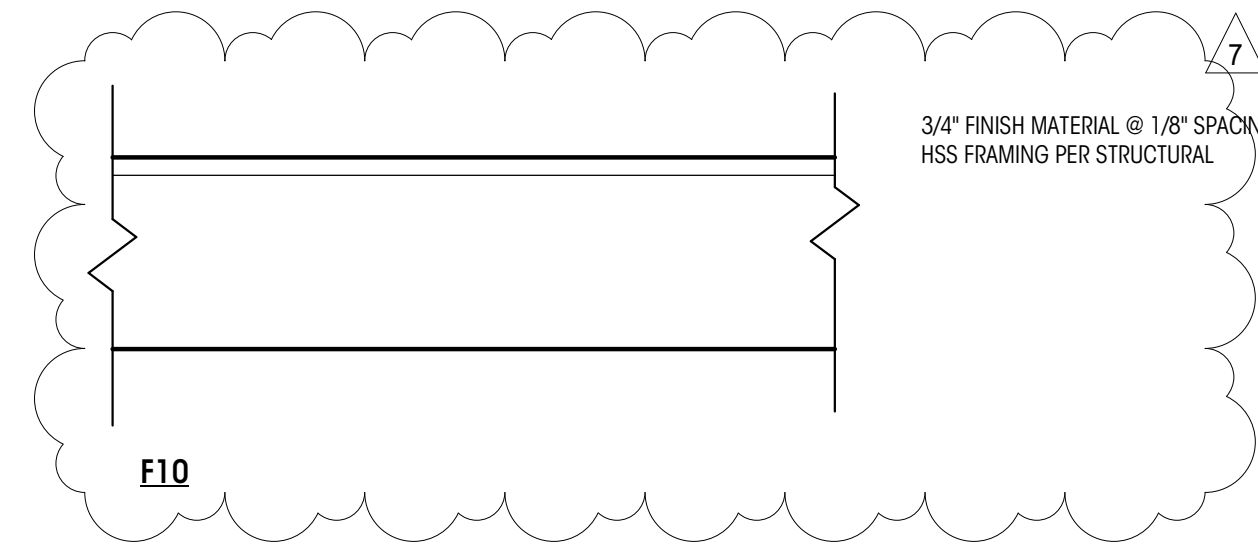
F8



RIPPED FURRING, SLOPE 1/8":12"
'DURADECK' OR APPROVED ALTERNATE MEMBRANE"
@ 3/4" PLYWOOD
FLOOR FRAMING PER STRUCT SLOPED AT 1/8": 12"
RIPPED CEILING FRAMING TO ALIGN WITH ADJACENT CEILING FRAMING
5/8" TYPE 'X' GYPSUM WALL BOARD

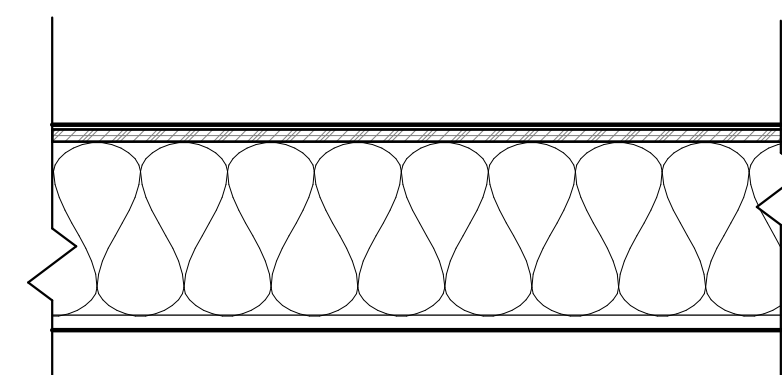
*WATERPROOFING MUST BE APPROVED FOR USE AS A WALKING
DECK AND FOR THE INSTALLATION OF THE DECKING DIRECTLY ON
THE MEMBRANE PER ICC-ES WALKING DECKS CRITERIA

F9



3/4" FINISH MATERIAL @ 1/8" SPACING
HSS FRAMING PER STRUCTURAL

F10



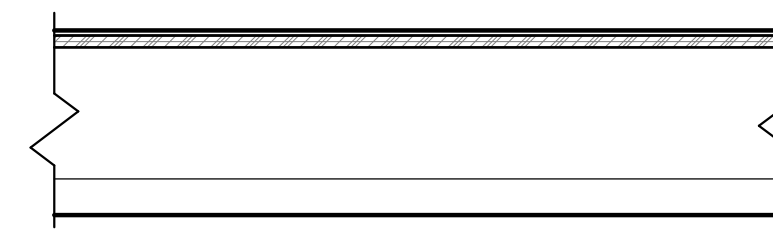
3/16" ASPHALT SHINGLES
ROOFING MEMBRANE
1/2" PLYWOOD
R-38 MIN. INSULATION - ENSURE 1" AIRGAP
FOR VENTING
2X FRAMING PER STRUCTURAL
5/8" GWB, PAINTED

R1



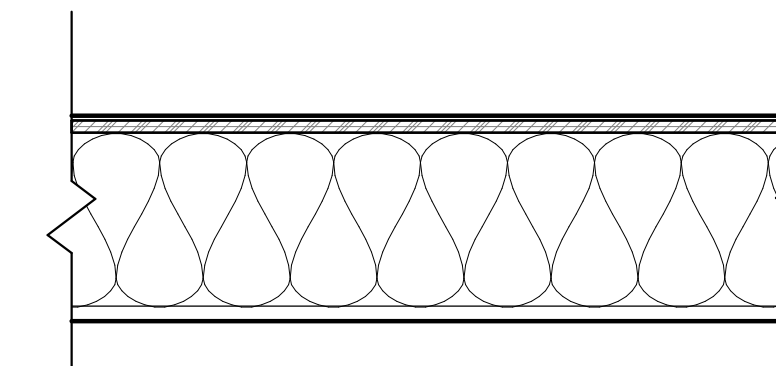
3/16" ASPHALT SHINGLES
ROOFING MEMBRANE
1/2" PLYWOOD
ROOF TRUSS PER STRUCTURAL

R2



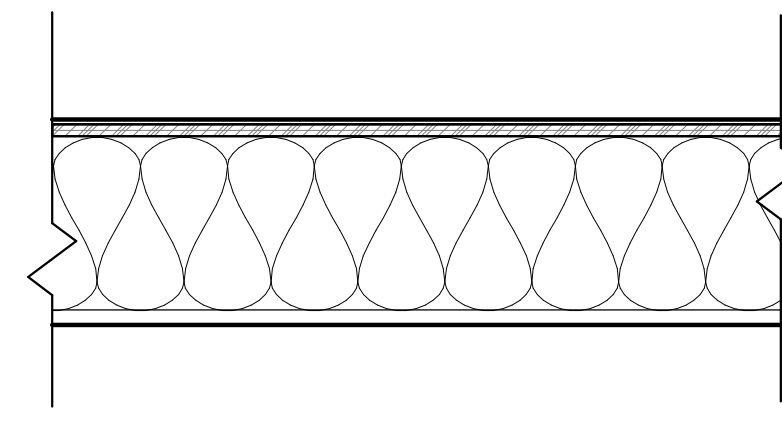
3/16" ASPHALT SHINGLES
1/2" PLYWOOD
2x FRAMING PER STRUCTURAL
1 1/2" CEDAR T&G

R3



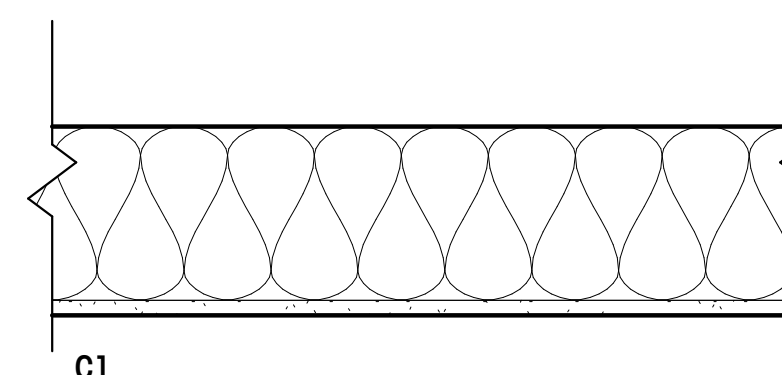
3/16" ASPHALT SHINGLES
ROOFING MEMBRANE
1/2" PLYWOOD
R-38 MIN. INSULATION - ENSURE 1" AIRGAP
FOR VENTING
ROOF TRUSS PER STRUCTURAL
5/8" GWB, PAINTED

R4



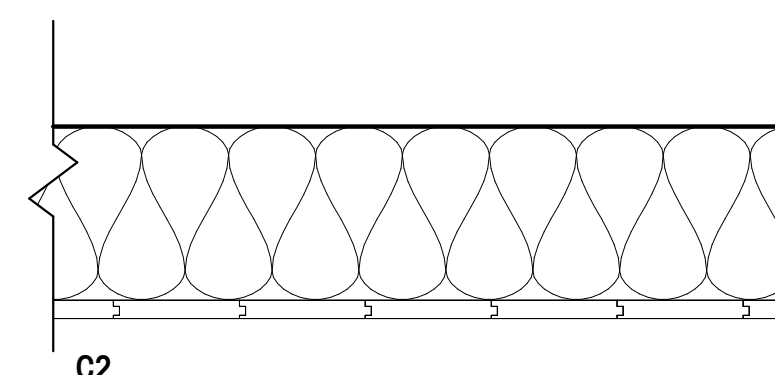
3/16" ASPHALT SHINGLES
ROOFING MEMBRANE
1/2" PLYWOOD
R-38 MIN. INSULATION - ENSURE 1" AIRGAP
FOR VENTING
ROOF TRUSS PER STRUCTURAL
5/8" GWB, PAINTED

R5



R-49 MIN. BATT INSULATION
ROOF TRUSS PER STRUCTURAL
5/8" GWB, PAINTED

C1

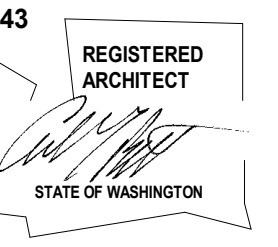


2X8 FRAMING
3/4" T&G FINISH

C2

SCOPE OF CHANGES:

1. ASSEMBLY F10 UPDATED PER STRUCTURAL.



REVISIONS

NO.	DESCRIPTION	DATE
3	PERMIT REVISION 1	04.19.22
7	PERMIT REV. 2 SUB 2	11.07.23

General Structural Notes

THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS

WOOD

35. FRAMING LUMBER SHALL BE S-DRY, KD, OR MC-19, AND GRADED AND MARKED IN CONFORMANCE WITH WCLIB STANDARD "GRADING RULES FOR WEST COAST LUMBER NO. 17", OR WMPA STANDARD, "WESTERN LUMBER GRADING RULES 2011". FURNISH TO THE FOLLOWING MINIMUM STANDARDS:

JOISTS AND BEAMS	(2X & 3X MEMBERS)	HEM-FIR NO. 2
	(4X MEMBERS)	MINIMUM BASE VALUE, Fb = 850 PSI
		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 OR HEM-FIR NO. 2

36. GLUED LAMINATED MEMBERS SHALL BE FABRICATED IN CONFORMANCE WITH ASTM AND ANSI/AITC STANDARDS. EACH MEMBER SHALL BEAR AN AITC OR APA-EWS IDENTIFICATION MARK AND SHALL BE ACCOMPANIED BY AN AITC OR APA-EWS CERTIFICATE OF CONFORMANCE. ALL SIMPLE SPAN BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-V4, Fb = 2,400 PSI, Fv = 265 PSI. ALL CANTILEVERED BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-V8, Fb = 2400 PSI, Fv = 265 PSI.

37. MANUFACTURED LUMBER, PSL, LVL, AND LSL SHOWN ON PLAN ARE BASED PRODUCTS MANUFACTURED BY THE WEYERHAEUSER CORPORATION IN ACCORDANCE WITH ICC-ES REPORT ESR-1387. MEMBERS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

PSL (2.0E)	Fb = 2900 PSI, E = 2000 KSI, Fv = 290 PSI
LVL (2.0E)	Fb = 2600 PSI, E = 2000 KSI, Fv = 285 PSI
LSL (1.55E)	Fb = 2325 PSI, E = 1550 KSI, Fv = 310 PSI

ALTERNATE MANUFACTURED LUMBER 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.

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.

38. PREFABRICATED PLYWOOD WEB JOIST DESIGN SHOWN ON PLANS IS BASED ON JOISTS MANUFACTURED BY THE WEYERHAEUSER CORPORATION. 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.

39. PREFABRICATED CONNECTOR PLATE WOOD ROOF TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH THE "NATIONAL DESIGN STANDARD FOR METAL PLATE-CONNECTED WOOD TRUSS CONSTRUCTION, ANSI/TPI 1" BY THE TRUSS PLATE INSTITUTE FOR THE SPANS AND CONDITIONS SHOWN ON THE PLANS. LOADING SHALL BE AS FOLLOWS:

TOP CHORD LIVE LOAD	25 PSF
TOP CHORD DEAD LOAD	10 PSF
BOTTOM CHORD DEAD LOAD	5 PSF
TOTAL LOAD	40 PSF

WIND UPLIFT (TOP CHORD)	5 PSF
BOTTOM CHORD LIVE LOAD	10 PSF
(BOTTOM CHORD LIVE LOAD DOES NOT ACT CONCURRENTLY WITH THE ROOF LIVE LOAD)	

WOOD TRUSSES SHALL UTILIZE APPROVED CONNECTOR PLATES (GANGNAIL OR EQUAL). SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION. SUBMITTED DOCUMENTS SHALL BE SIGNED AND STAMPED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON. PROVIDE FOR SHAPES, BEARING POINTS, INTERSECTIONS, HIPS, VALLEYS, ETC., SHOWN ON THE DRAWINGS. EXACT COMPOSITION OF SPECIAL HIP, VALLEY, AND INTERSECTION AREAS (USE OF GIRDER TRUSSES, JACK TRUSSES, STEP-DOWN TRUSSES, ETC.) SHALL BE DETERMINED BY THE MANUFACTURER UNLESS SPECIFICALLY INDICATED ON THE PLANS. PROVIDE ALL TRUSS TO TRUSS AND TRUSS TO GIRDER TRUSS CONNECTION DETAILS AND REQUIRED CONNECTION MATERIALS. PROVIDE FOR ALL TEMPORARY AND PERMANENT TRUSS BRACING AND BRIDGING.

40. 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.

ROOF SHEATHING SHALL BE 1/2" (NOMINAL) WITH SPAN RATING 32/16.

FLOOR SHEATHING SHALL BE 3/4" (NOMINAL) WITH SPAN RATING 48/24.

WALL SHEATHING SHALL BE 1/2" (NOMINAL) WITH SPAN RATING 24/0.

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.

41. ALL WOOD IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE-TREATED WITH AN APPROVED PRESERVATIVE OR (2) LAYERS OF ASPHALT IMPREGATED BUILDING PAPER SHALL BE PROVIDED BETWEEN UNTREATED WOOD AND CONCRETE OR MASONRY.

42. PRESERVATIVE TREATED WOOD SHALL BE TREATED PER AWPA STANDARD U1 TO THE USE CATEGORY EQUAL TO OR HIGHER THAN THE INTENDED APPLICATION. TREATED WOOD 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 USE IN PERMANENT FOUNDATIONS SHALL BE TREATED TO AWPA UC4B.

43. 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 GALVANIZED
CONTAINS AMMONIA CARRIER	INTERIOR DRY	G185 OR A185 HOT DIPPED OR CONTINUOUS HOT-GALVANIZED PER ASTM A653
CONTAINS AMMONIA CARRIER	INTERIOR WET	TYPE 304 OR 316 STAINLESS
CONTAINS AMMONIA CARRIER	EXTERIOR	TYPE 304 OR 316 STAINLESS
AZCA	ANY	TYPE 304 OR 316 STAINLESS

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.

44. 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.

45. WOOD FASTENERS

A. NAIL SIZES SPECIFIED ON DRAWINGS ARE BASED ON THE FOLLOWING SPECIFICATIONS:

SIZE	LENGTH	DIAMETER
6d	2"	0.113"
8d	2-1/2"	0.131"
10d	3"	0.148"
12d	3-1/4"	0.148"
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.

46. NOTCHES AND HOLES IN WOOD FRAMING:

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.

47. WOOD FRAMING NOTES--THE FOLLOWING APPLY UNLESS OTHERWISE SHOWN ON THE PLANS:

A. ALL WOOD FRAMING DETAILS NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE INTERNATIONAL BUILDING CODE, THE AITC "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.

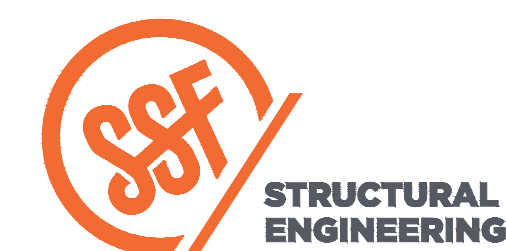
ALL WALLS SHALL HAVE A SINGLE BOTTOM PLATE AND A DOUBLE TOP PLATE. END NAIL TOP PLATE TO EACH STUD WITH TWO 16d NAILS, AND TOENAIL OR END NAIL EACH STUD TO BOTTOM PLATE WITH TWO 16d NAILS. FACE NAIL DOUBLE TOP PLATE WITH 16d @ 12" O.C. AND LAP MINIMUM 4'-0" AT JOINTS AND PROVIDE EIGHT 16d NAILS @ 4" 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.

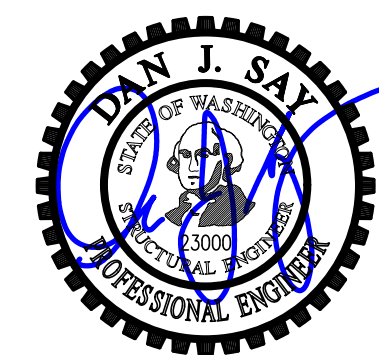
UNLESS OTHERWISE NOTED ON THE PLANS, PLYWOOD ROOF AND FLOOR SHEATHING SHALL BE LAID UP WITH GRAIN PERPENDICULAR TO SUPPORTS AND NAILED AT 6" ON-CENTER WITH 8d NAILS TO FRAMED PANEL EDGES, STRUTS AND OVER STUD WALLS AS SHOWN ON PLANS AND @ 12" ON-CENTER TO INTERMEDIATE SUPPORTS. PROVIDE APPROVED PLYWOOD 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.

48. TONGUE-AND-GROOVE STRUCTURAL ROOF AND FLOOR DECKING SHALL BE INSTALLED AS FOLLOWS: 2X DECKING SHALL BE TOENAILED THROUGH THE TONGUE AND FACE -NAILED WITH ONE 16d NAIL PER PIECE PER SUPPORT. 3X AND 4X DECKING SHALL BE TOENAILED WITH ONE 40d COMMON NAIL AND FACENAILED WITH ONE 60d COMMON NAIL PER SUPPORT. COURSES SHALL BE SPIKED TOGETHER WITH 8" SPIKES @ 30" O.C. (MAXIMUM) AND @ 10" (MAXIMUM) FROM THE END OF EACH PIECE. SPIKES SHALL BE INSTALLED IN PREDRILLED EDGE HOLES. DECKING SHALL BE PLACED WITH A CONTROLLED RANDOM LAYOUT UNLESS OTHERWISE NOTED AND SHALL EXTEND ACROSS A MINIMUM OF THREE SPANS. EACH PLANK SHALL BEAR ON AT LEAST ONE SUPPORT. ALL JOINTS SHALL BE END MATCHED AND ALL PLANKS NAILED TOGETHER WITHIN ONE FOOT OF EACH SIDE OF THE END JOINT. END JOINTS IN ADJACENT PLANKS SHALL BE AT LEAST TWO FEET APART AND END JOINTS IN ALTERNATE PLANKS SHALL BE MORE THAN ONE FOOT APART WHEN MEASURED ALONG THE LENGTH OF THE DECKING. END JOINTS NOT OCCURRING OVER SUPPORTS SHALL BE MATCHED TONGUED AND GROOVED OR SHALL BE CONNECTED WITH 10 GAUGE METAL SPLINES DRIVEN INTO PRE-CUT SLOTS. TONGUE AND GROOVE JOINTS SHALL BE GLUED WITH CONSTRUCTION ADHESIVE WHERE NOTED ON PLAN.



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DESIGN:	HAA, BDM
DRAWN:	NHD
CHECKED:	BDM
APPROVED:	DJS

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2	85% CD Set	Jan. 13, 2023
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DPD:

PROJECT TITLE:
Clarkson Residence
 8163 West Mercer Way
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ARCHITECT:
Brandt Design Group
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 PH 206.239.0850

ISSUE:
65% CD Set

SHEET TITLE:
General Structural Notes

SCALE:
 -
 DATE: June 22, 2022
 PROJECT NO: 01519-2021-11
 SHEET NO:

S1.2

Statement of Special Inspections

Special inspections shall be provided per the requirements of IBC section 1705 and as noted herein

SOILS

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	COMMENTS	REFERENCES
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X		IBC 1705.6
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X		
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		X		
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X			
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		X		

DRIVEN DEEP FOUNDATION ELEMENTS

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	COMMENTS	REFERENCES
1. VERIFY ELEMENT MATERIALS, SIZES AND LENGTHS COMPLY WITH THE REQUIREMENTS	X			IBC 1705.7
2. DETERMINE CAPACITIES OF TEST ELEMENTS AND CONDUCT ADDITIONAL LOAD TESTS AS REQUIRED	X			
3. OBSERVE DRIVING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT	X			
4. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM TYPE AND SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, RECORD TIP AND BUTT ELEVATIONS AND DOCUMENT ANY DAMAGE TO FOUNDATION ELEMENT	X			
5. SEE STEEL CONSTRUCTION INSPECTION REQUIREMENTS FOR STEEL PILE ELEMENTS				IBC 1705.2
6. SEE CONCRETE CONSTRUCTION INSPECTION REQUIREMENTS FOR CONCRETE AND CONCRETE FILLED ELEMENTS				IBC 1705.3
7. FOR SPECIALTY ELEMENTS, PERFORM ADDITIONAL INSPECTIONS AS DETERMINED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE				

CAST-IN-PLACE DEEP FOUNDATION ELEMENTS

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	COMMENTS	REFERENCES
1. OBSERVE DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT	X			IBC 1705.8
2. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (if applicable), LENGTHS, EMBEDMENT INTO BEDROCK (if applicable) AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES	X			
3. SEE CONCRETE CONSTRUCTION INSPECTION REQUIREMENTS FOR CONCRETE ELEMENTS				IBC 1705.3

STRUCTURAL STEEL

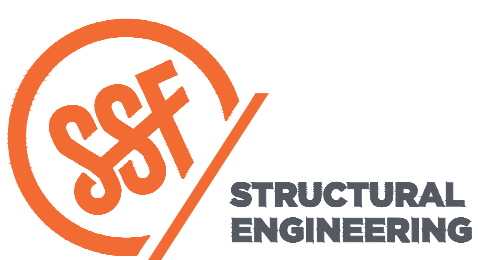
VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	COMMENTS	REFERENCE
1. FABRICATED AND ERECTED STEEL:				
a. COMPLIANCE WITH DETAILS SHOWN ON CONSTRUCTION DOCUMENTS		X		AISC 360, SECTION N5
b. APPLICATION OF JOINT DETAILS AT EACH CONNECTION		X		
2. INSPECTION OF HIGH STRENGTH BOLTING:				
a. SNUG-TIGHT JOINTS		X		IBC 1705.2.1 AISC 360, SECTION M2.5 SECTION N5.6
b. PRE-TENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION		X		
c. PRE-TENSIONS AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION	X			
3. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:				
a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATIONS IN THE APPROVED CONSTRUCTION DOCUMENTS		X		AISC 360, SECTION A3.5 AND APPLICABLE AWS A5 DOCUMENTS
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED		X		
4. INSPECTION OF WELDING:				
a. COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELD	X			IBC 1705.2.1 AWS D1.1
b. MULTIPASS FILLET WELDS	X			AISC 360 SECTION N5.4
c. SINGLE PASS FILLET WELDS > 9/16"	X			
d. PLUG AND SLOT WELDS	X			
e. SINGLE PASS FILLET WELDS ≤ 9/16"		X		
5. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE:				
a. DETAILS SUCH AS BRACING AND STIFFENING		X		IBC 1705.2.1
b. MEMBER LOCATIONS		X		
c. APPLICATION OF JOINT DETAILS AT EACH CONN.		X		
6. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS:				
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS		X		AISC 360, SECTION A3.3 AND APPLICABLE ASTM MATERIAL STANDARDS
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED		X		

CONCRETE AND CONCRETE REINFORCING

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	COMMENTS	REFERENCE
1. INSPECTION OF REINFORCING STEEL INCLUDING PRESTRESSING TENDONS, AND PLACEMENT				
		X		IBC 1908.4 ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3
2. INSPECTION OF ANCHORS CAST IN CONCRETE				
		X		ACI 318: 17.8.2
3. INSPECTION OF POST-INSTALLED ANCHORS IN HARDENED CONCRETE MEMBERS:				
a. ADHESIVE ANCHORS INSTALLED HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS	X		SEE ICC-ES ESR REPORT FOR ADDITIONAL REQUIREMENTS	ACI 318: 17.8.2.4
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 3-g		X	SEE ICC-ES ESR REPORT FOR ADDITIONAL REQUIREMENTS	ACI 318: 17.8.2
4. VERIFYING USE OF REQUIRED DESIGN MIX				
		X		IBC 1904.1 IBC 1904.2 IBC 1908.2 IBC 1908.3 ACI 318: Ch. 19, 26.4.3, 26.4.4
5. INSPECTION DURING CONCRETE MIXING:				
a. CONCRETE MIXES PREPARED IN A BATCH PLANT THAT IS NOT CERTIFIED BY THE CITY OF SEATTLE		X	CITY OF SEATTLE ONLY, NOT REQUIRED IF THE PROPORTIONS OF INGREDIENTS ARE ESTABLISHED IN ACCORDANCE WITH SBC 1905.1.10 OR IF THE MIX HAS BEEN GRANTED CONTINUOUS APPROVAL BY THE BUILDING OFFICIAL	SBC 1705.3.3
b. MIXES WITH $f'_c > 6000\text{psi}$		X		
c. STRUCTURAL LIGHT WEIGHT CONCRETE		X		
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE				
	X			IBC 1908.10 ASTM C 172 ASTM C 31 ACI 318: 26.5, 26.12
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES				
	X			IBC 1908.6 -1908.8 ACI 318: 26.5
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES				
		X		IBC 1908.9 ACI 318: 26.5.3-26.5.5
9. INSPECT ERECTION OF PRE-CAST CONCRETE MEMBERS				
		X		ACI 318: 26.9
10. VERIFICATION OF IN-SITU CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS				
		X		ACI 318: 26.11.2
11. INSPECT FORMWORK FOR GENERAL CONFORMITY TO APPROVED PLANS FOR SIZE, SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED				
		X		ACI 318: 26.11.2(b)
12. REINFORCING BAR WELDING:				
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706		X		AWS D1.4 ACI 318: 26.6.4
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 9/16", OTHER THAN C & D		X		
c. WELDING OF REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT	X			
d. WELDING SHEAR REINFORCEMENT	X			
e. WELDING OF OTHER REINFORCEMENT STEEL	X			
13. MECHANICAL COUPLERS FOR REINFORCING				
			SEE ICC-ES ESR REPORT FOR REQUIREMENTS	

NOTES

- TESTING AND SPECIAL INSPECTION REPORTS SHALL BE PREPARED FOR EACH INSPECTION ITEM ON A DAILY BASIS WHENEVER WORK IS PERFORMED ON THAT ITEM. REPORTS SHALL BE DISTRIBUTED TO OWNER, CONTRACTOR, BUILDING OFFICIAL, ARCHITECT, AND STRUCTURAL ENGINEER.
- STRUCTURAL OBSERVATIONS SHALL BE PERFORMED BY THE STRUCTURAL ENGINEER OF RECORD OR DESIGNATED REPRESENTATIVE IN ACCORDANCE WITH IBC 1704.6. STRUCTURAL OBSERVATIONS SHALL BE PERFORMED AS FOLLOWS:
 - PERIODIC VISUAL OBSERVATION OF STRUCTURAL SYSTEMS FOR GENERAL CONFORMANCE TO CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES
 - REVIEW OF TESTING AND INSPECTION REPORTS
 - REPORTS SHALL BE PREPARED FOR EACH SITE VISIT AND SHALL BE DISTRIBUTED TO ARCHITECT.
- WHERE APPLICABLE, SEE ALSO IBC SECTION 1705.11, SPECIAL INSPECTION FOR WIND RESISTANCE AND IBC SECTION 1705.12, SPECIAL INSPECTION FOR SEISMIC RESISTANCE
- "STRUCTURAL STEEL" REFERS TO STEEL CONSTRUCTION DEFINED BY AISC 303, "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES."



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DESIGN: HAA, BDM
DRAWN: NHD
CHECKED: BDM
APPROVED: DJS

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2	85% CD Set	Jan. 13, 2023
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DPD:

PROJECT TITLE:

Clarkson Residence
8163 West Mercer Way
Mercer Island, WA 98040

ARCHITECT:

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66 Bell Street, Unit 1
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ISSUE:

65% CD Set

SHEET TITLE:

**Special
Inspection Notes**

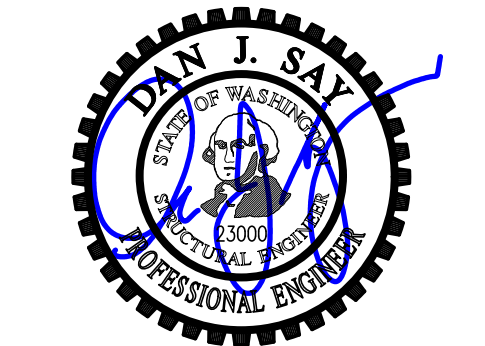
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S1.3



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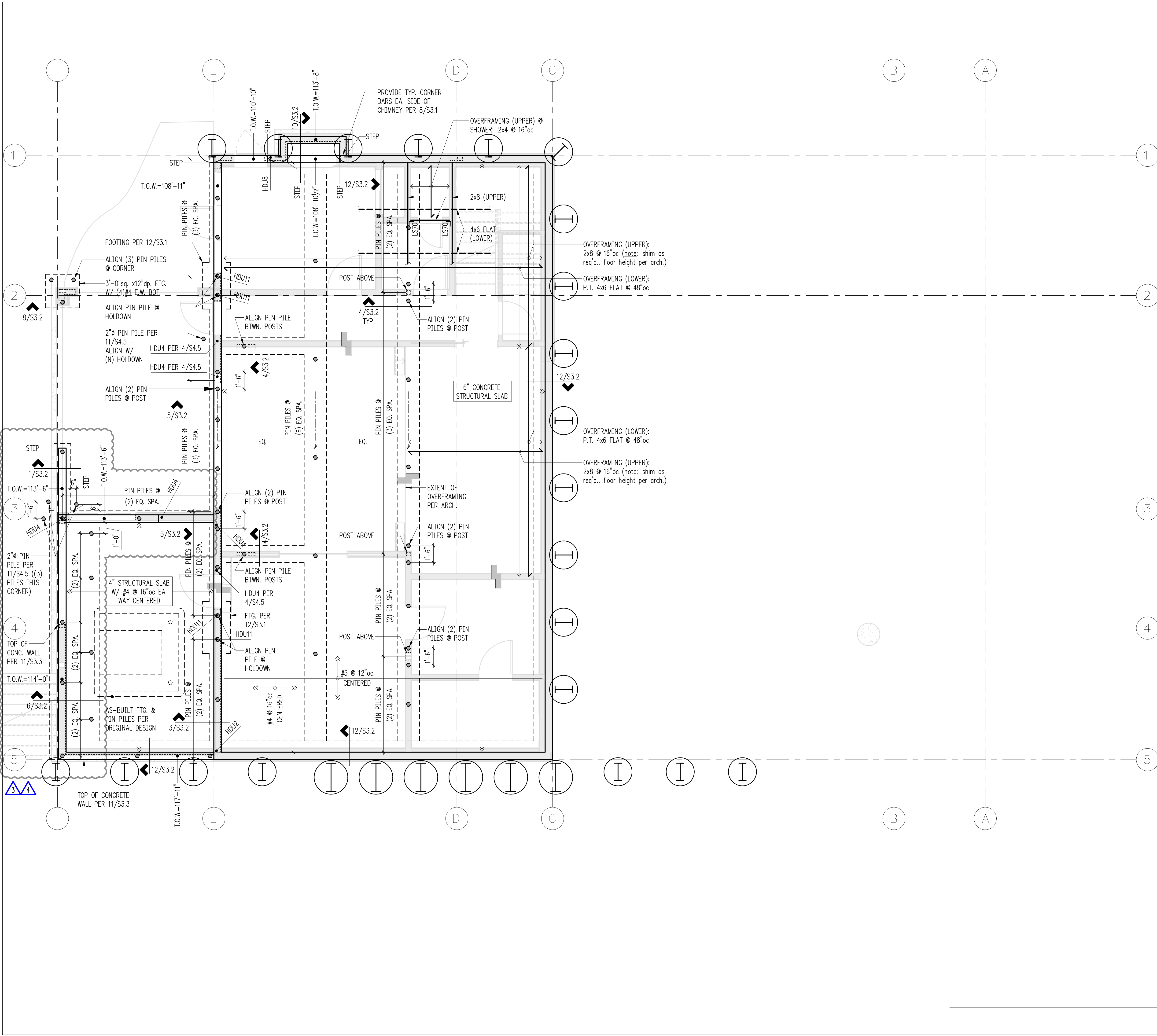
ARCHITECT:
Brandt Design Group
66 Bell Street, Unit 1
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SHEET TITLE:
Lower Foundation Plan

SCALE:
1/4" = 1'-0" U.N.O.
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SHEET NO:

S2.1



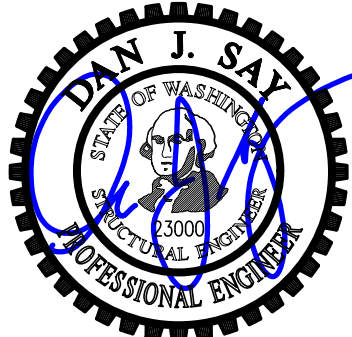
Legend

- STRUCTURAL WALL OR POST ABOVE
- STEM WALL & FOOTING
- HDUx HOLDOWN PER 12/S3.1
- SHORING PILE PER SH2.1
- 4" PIN PILE (47 total this sheet)
NOTE: PIN PILES SUBSTITUTED FOR AUGER CAST PILES; PILES PER GEOTECH REPORT
- T.O.W. TOP OF WALL ELEVATION. ELEVATIONS ARE ESTIMATES, CONTRACTOR TO CONFIRM W/ ARCHITECT & ACTUAL SITE CONDITIONS

Plan Notes

1. DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
2. REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
3. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 18" MINIMUM BELOW EXTERIOR GRADE.
4. ALL POSTS ABOVE SHALL BEAR FULLY ON BEAMS OR POSTS BELOW AND SHALL HAVE FULL CONTINUOUS BEARING THROUGH FLOORS TO FOUNDATION.
5. INTERIOR SLABS ON GRADE PER PLAN. BELOW SLAB PROVIDE A 10-MIL VAPOR BARRIER OVER 6" MINIMUM FREE DRAINING GRAVEL OVER FIRM NATIVE SOILS OR STRUCTURAL FILL.
6. GEOTECHNICAL SPECIAL INSPECTOR SHALL BE CONTINUOUSLY PRESENT DURING PIN PILE INSTALLATION AND LOAD TESTING.
7. AT LEAST 3% OF THE PIN PILES, BUT NO MORE THAN 5 PILES, SHALL BE LOAD TESTED TO TWICE THE DESIGN PILE LOAD. ALL LOAD TESTS SHALL BE PERFORMED IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN ASTM D1143.
8. WOOD OVERFRAMED FLOOR FRAMING CONSISTS OF FLOORING PER ARCHITECT OVER MINIMUM (1) LAYER 1/2" T&G APA RATED PLYWOOD FACE GRAIN PERPENDICULAR TO FRAMING PER PLAN, UON
9. NAIL FLOOR SHEATHING W/ 8d @ 6" oc AT FRAMED PANEL EDGES AND AT 12" oc IN FIELD

Lower Foundation Plan
Scale: 1/4" = 1'-0"



DESIGN: HAA, BDM

DRAWN: NHD

CHECKED: BDM

APPROVED: DJS

REVISIONS:

1	Revision 1	Aug. 15, 2022
2	85% CD Set	Jan. 13, 2023
3	Permit Revisions	Jun. 30, 2023
4	CA Revisions	Nov. 3, 2023

DPD:

PROJECT TITLE:
Clarkson Residence
8163 West Mercer Way
Mercer Island, WA 98040

ARCHITECT:
Brandt Design Group
66 Bell Street, Unit 1
Seattle, WA 98121
PH 206.239.0850

ISSUE:
65% CD Set

SHEET TITLE:
**Main Floor
Framing/Upper
Foundation Plan**

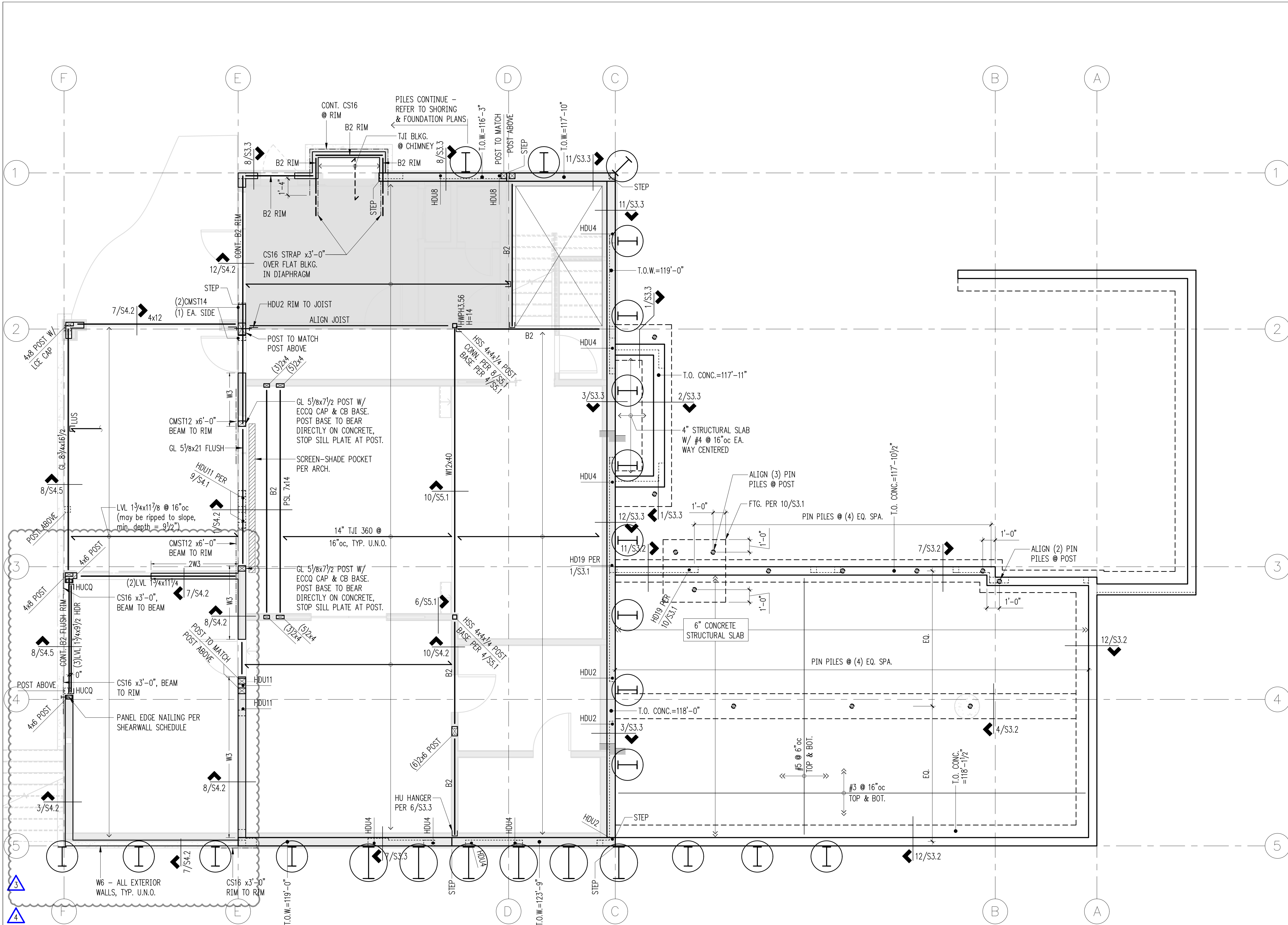
SCALE: 1/4" = 1'-0" U.N.O.

DATE: June 22, 2022

PROJECT NO: 01519-2021-11

SHEET NO:

S2.2



Beam Schedule

MARK	BEAM	HANGER	BRG. STUDS
B1	LSL 1 1/2x14	HU11	2
B2	LSL 3/2x14	HHUS410	3
B3	(3)LVL 1 1/2x14	HGUS5.50/14	4
B4	(4)LVL 1 1/2x14	HGUS7.25/14	5

Legend

- STRUCTURAL WALL OR POST BELOW
- STRUCTURAL WALL OR POST ABOVE
- NON-STRUCTURAL WALL BELOW
- STEM WALL & FOOTING
- SHEARWALL PER 12/S4.1
- SPAN DIRECTION
- EXTENT OF JOISTS
- HEADER/BEAM PER PLAN
- HANGER
- BEAM PER SCHEDULE, THIS SHEET
- BLOCKED FLOOR DIAPHRAGM:
2x4 FLAT BLKG. AT ALL PLYWOOD
PANEL EDGES. NAIL ALL PLYWOOD
PANEL EDGES W/ 8d @ 4"oc &
@ 12"oc FIELD
- HDUx
HOLDOWN PER 12/S3.1, U.N.O.
- SHORING PILE PER SH2.1
- 4" PIN PILE (13 total this sheet)
NOTE: PIN PILES SUBSTITUTED FOR AUGER
CAST PILES; PILES PER GEOTECH REPORT
- T.O._
TOP OF CONCRETE ELEVATION. ELEVATIONS
ARE ESTIMATES, CONTRACTOR TO
CONFIRM W/ ARCHITECT & ACTUAL
SITE CONDITIONS

- Plan Notes**
- DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
 - REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
 - THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 18" MINIMUM BELOW EXTERIOR GRADE.
 - INTERIOR SLABS ON GRADE PER PLAN. BELOW SLAB PROVIDE A 10-MIL VAPOR BARRIER OVER 6" MINIMUM FREE DRAINING GRAVEL OVER FIRM NATIVE SOILS OR STRUCTURAL FILL.
 - EXTERIOR SLABS ON GRADE SHALL BE 4" MINIMUM THICKNESS. REINFORCE WITH #3 AT 16" O.C. CENTERED IN SLAB. BELOW SLAB PROVIDE 6" MINIMUM FREE DRAINING GRAVEL OVER FIRM NATIVE SOILS OR STRUCTURAL FILL.
 - TYPICAL FLOOR FRAMING CONSISTS OF FLOORING PER ARCHITECT OVER 3/4" T&G APA RATED PLYWOOD FACE GRAIN PERPENDICULAR TO FRAMING PER PLAN, U.O.N.
 - NAIL FLOOR SHEATHING W/ 8D @ 6" OC AT FRAMED PANEL EDGES AND OVER SHEARWALLS, AND AT 12" OC IN FIELD.
 - PROVIDE BLOCKING/BRIDGING AT 8'-0" O.C. IN FLOOR FRAMING
 - "W_" INDICATES PLYWOOD SHEARWALL BELOW FRAMING SHOWN. REFER TO SHEARWALL SCHEDULE FOR WALL ATTACHMENTS. ALL EXTERIOR WOOD FRAMED WALLS ARE W6, U.O.N.
 - PROVIDE (2) BEARING STUDS AT EACH END OF ALL HEADERS AND BEAMS OVER 3'-0" IN LENGTH, U.O.N.
 - PROVIDE LCE COLUMN CAP AND BASE AT ALL BEAM TO COLUMN CONNECTIONS U.O.N.
 - ALL POSTS ABOVE SHALL BEAR FULLY ON BEAMS OR POSTS BELOW AND SHALL HAVE FULL CONTINUOUS BEARING THROUGH FLOORS TO FOUNDATION.
 - GEOTECHNICAL SPECIAL INSPECTOR SHALL BE CONTINUOUSLY PRESENT DURING PIN PILE INSTALLATION AND LOAD TESTING.
 - AT LEAST 3% OF THE PIN PILES, BUT NO MORE THAN 5 PILES, SHALL BE LOAD TESTED TO TWICE THE DESIGN PILE LOAD. ALL LOAD TESTS SHALL BE PERFORMED IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN ASTM D1143.

Main Floor Framing/Upper Foundation Plan
Scale: 1/4" = 1'-0"



DESIGN: HAA, BDM
DRAWN: NHD
CHECKED: BDM
APPROVED: DJS

REVISIONS:

1	Revision 1	Aug. 15, 2022
2	85% CD Set	Jan. 13, 2023
3	Permit Revisions	Jun. 30, 2023
4	CA Revisions	Nov. 3, 2023

DPD:

PROJECT TITLE:
Clarkson Residence
8163 West Mercer Way
Mercer Island, WA 98040

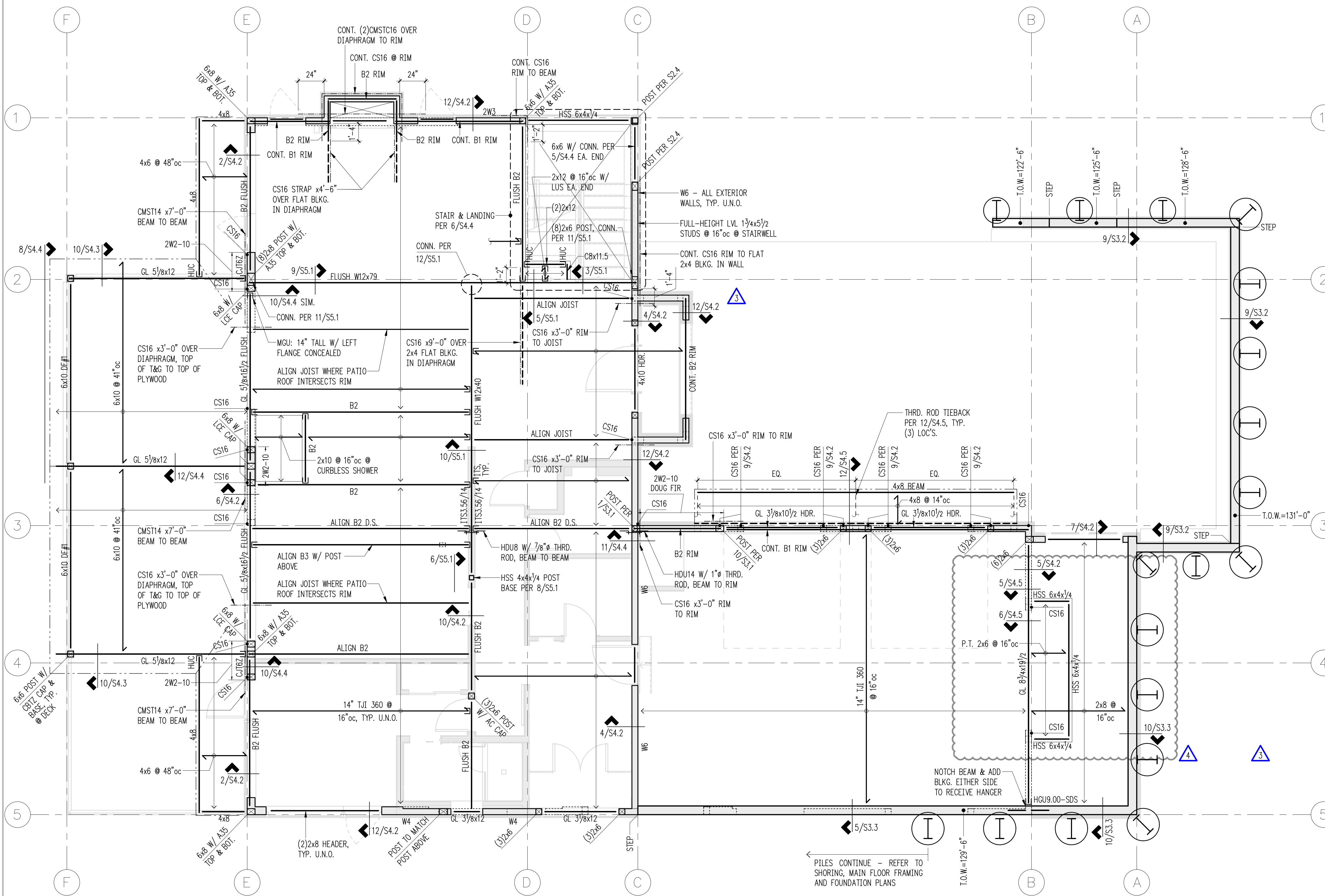
ARCHITECT:
Brandt Design Group
66 Bell Street, Unit 1
Seattle, WA 98121
PH 206.239.0850

ISSUE:
65% CD Set

SHEET TITLE:
Upper Floor Framing Plan

SCALE: 1/4" = 1'-0" U.N.O.
DATE: June 22, 2022
PROJECT NO: 01519-2021-11
SHEET NO:

S2.3



Beam Schedule

MARK	BEAM	HANGER	BRG. STUDS
B1	LVL 1 3/4x14	HU11	2
B2	LSL 3 3/2x14	HHUS410	3
B3	(3)LVL 1 3/4x14	HGUS5.50/14	4
B4	(4)LVL 1 3/4x14	HGUS7.25/14	5

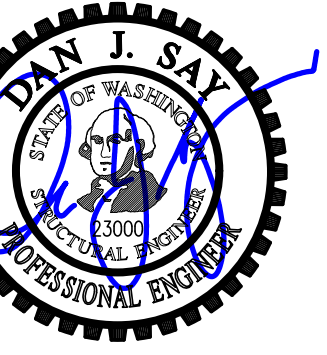
Legend

- STRUCTURAL WALL OR POST BELOW
- STRUCTURAL WALL OR POST ABOVE
- NON-STRUCTURAL WALL BELOW
- Wx SHEARWALL PER 12/S4.1
- SPAN DIRECTION
- EXTENT OF JOISTS
- HEADER/BEAM PER PLAN
- HANGER
- Bx BEAM PER SCHEDULE, THIS SHEET
- ROOFING PER ARCH. OVER 3/4" CDX APA RATED SHEATHING (EXPOSURE 1), FACE GRAIN PERP. TO FRAMING PER PLAN OVER 2x T&G DECKING PER GENERAL STRUCTURAL NOTES. NAIL ALL PLYWOOD PANEL EDGES W/ 8d @ 4" oc & 12" oc FIELD
- HDUx HOLDOWN PER 12/S3.1
- CSxx STRAP PER 5/S4.1
- SHORING PILE PER SH2.1
- T.O.W. TOP OF WALL ELEVATION. ELEVATIONS ARE ESTIMATES, CONTRACTOR TO CONFIRM W/ ARCHITECT & ACTUAL SITE CONDITIONS
- D.S. DRAG STRUT: PROVIDE PANEL EDGE NAILING PER PLAN NOTE 4

Plan Notes

- DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
- REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
- TYPICAL FLOOR FRAMING CONSISTS OF FLOORING PER ARCHITECT OVER 3/4" T&G APA RATED PLYWOOD FACE GRAIN PERPENDICULAR TO FRAMING PER PLAN, U.O.N.
- NAIL FLOOR SHEATHING W/ 8D AT 6" OC AT FRAMED PANEL EDGES AND OVER SHEARWALLS, AND AT 12" OC IN FIELD.
- PROVIDE BLOCKING/BRIDGING AT 8'-0" O.C. IN FLOOR FRAMING
- "W_" INDICATES PLYWOOD SHEARWALL BELOW FRAMING SHOWN. REFER TO SHEARWALL SCHEDULE FOR WALL ATTACHMENTS. ALL EXTERIOR WOOD FRAMED WALLS ARE W6, U.O.N.
- PROVIDE (2) BEARING STUDS AT EACH END OF ALL HEADERS AND BEAMS OVER 3'-0" IN LENGTH, U.O.N.
- PROVIDE LCE COLUMN CAP AND BASE AT ALL BEAM TO COLUMN CONNECTIONS U.O.N.
- ALL POSTS ABOVE SHALL BEAR FULLY ON BEAMS OR POSTS BELOW AND SHALL HAVE FULL CONTINUOUS BEARING THROUGH FLOORS TO FOUNDATION.

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



DESIGN: HAA, BDM
DRAWN: NHD
CHECKED: BDM
APPROVED: DJS

REVISIONS:		
1	Revision 1	Aug. 15, 2022
2	85% CD Set	Jan. 13, 2023
3	Permit Revisions	Jun. 30, 2023
4	CA Revisions	Nov. 3, 2023

DPD:

PROJECT TITLE:
Clarkson Residence
8163 West Mercer Way
Mercer Island, WA 98040

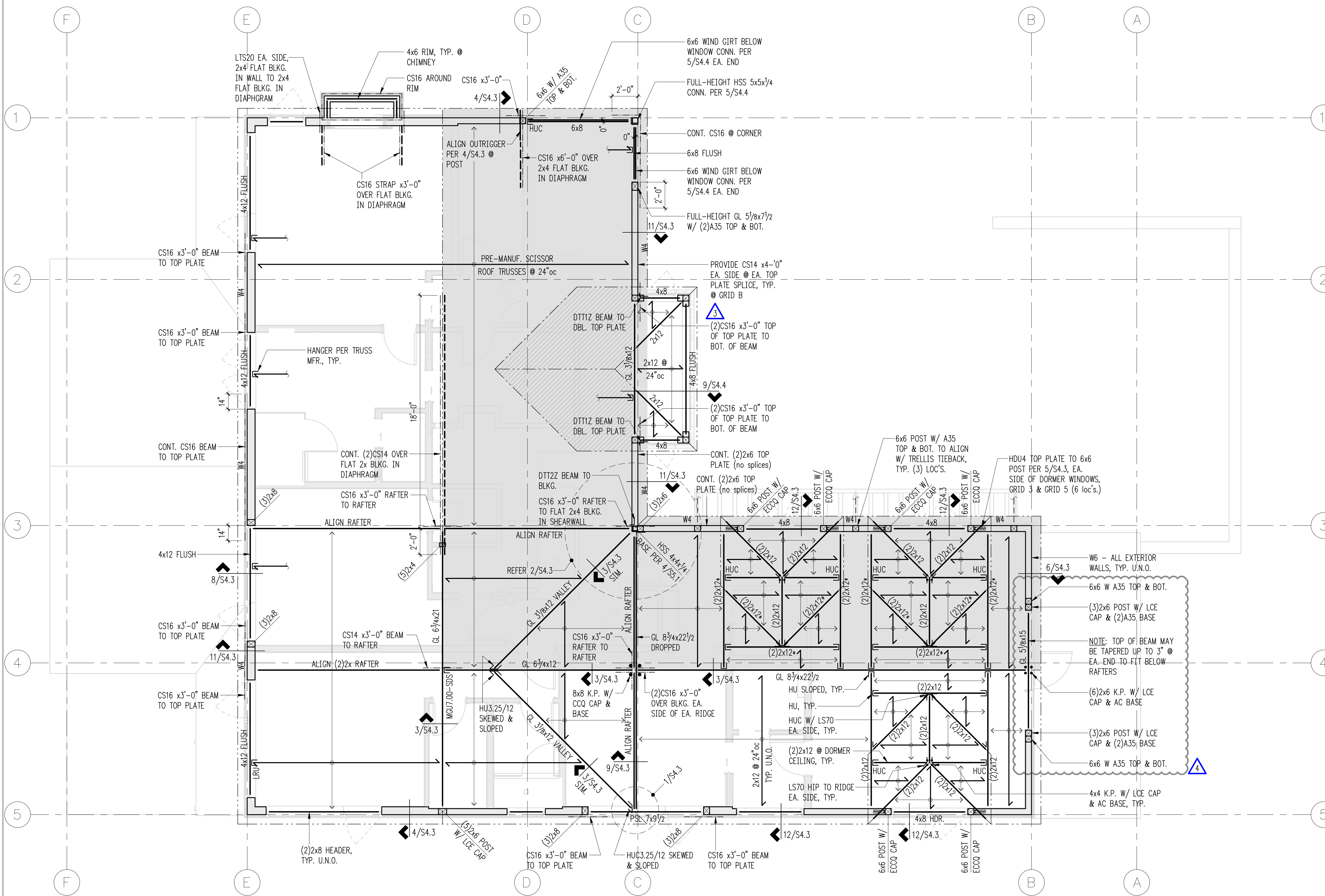
ARCHITECT:
Brandt Design Group
66 Bell Street, Unit 1
Seattle, WA 98121
PH 206.239.0850

ISSUE:
65% CD Set

SHEET TITLE:
Roof Framing Plan

SCALE: 1/4" = 1'-0" U.N.O.
DATE: June 22, 2022
PROJECT NO: 01519-2021-11
SHEET NO:

S2.4



Legend

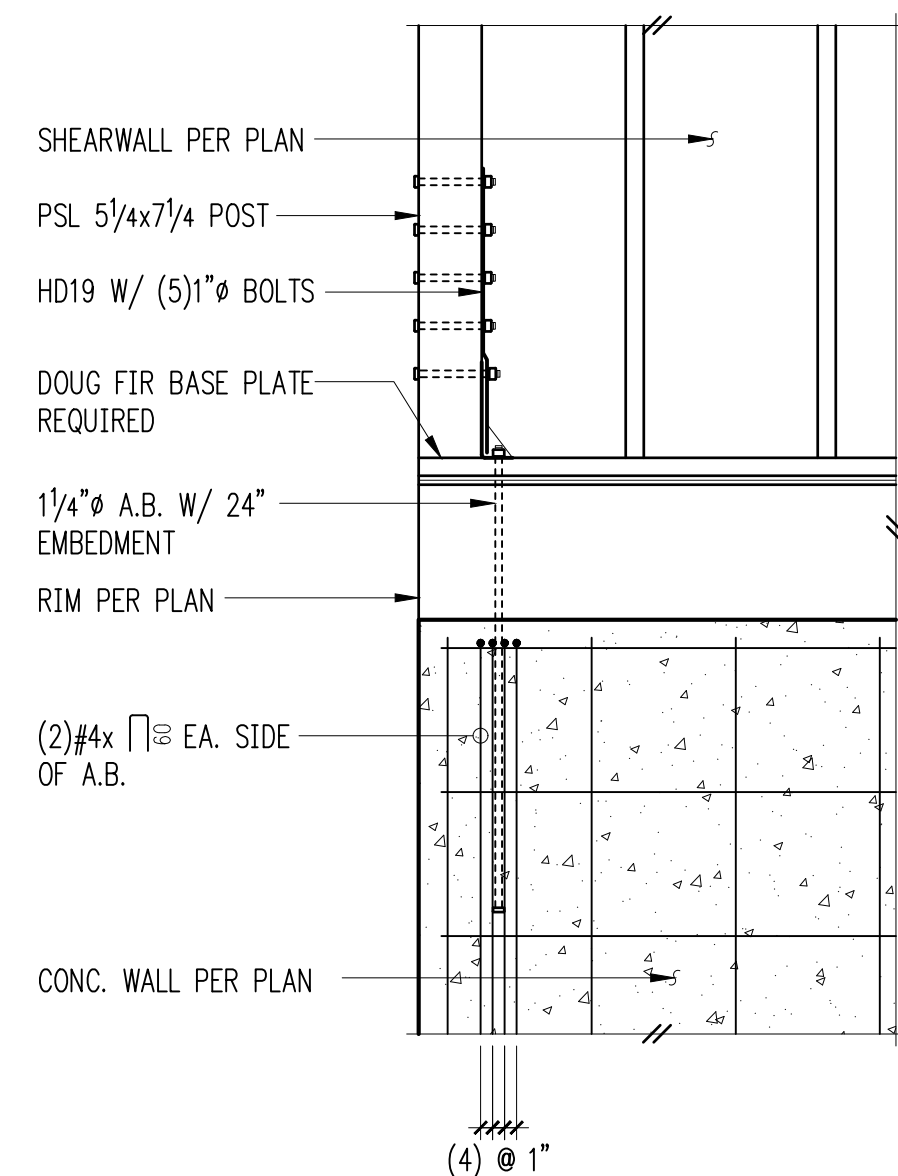
- STRUCTURAL WALL OR POST BELOW
- NON-STRUCTURAL WALL BELOW
- Wx SHEARWALL PER 12/S4.1
- SPAN DIRECTION
- EXTENT OF JOISTS
- HEADER/BEAM PER PLAN
- HANGER
- G.T. GIRDER TRUSS
- OVERFRAME W/ 2x6 @ 24" oc. POST DOWN TO FRAMING BELOW @ 4'-0" oc
- TOP OF BEAMS MAY BE NOTCHED 1" x 1" @ 6" oc. NOTCHES SHALL BE CENTERED BETWEEN DIAPHRAGM NAILING PER PLAN NOTE 8
- BLOCKED ROOF DIAPHRAGM: 2x4 FLAT BLKG. AT ALL PLYWOOD PANEL EDGES. NAIL ALL PLYWOOD PANEL EDGES W/ 8d @ 6" oc & @ 12" oc FIELD

Plan Notes

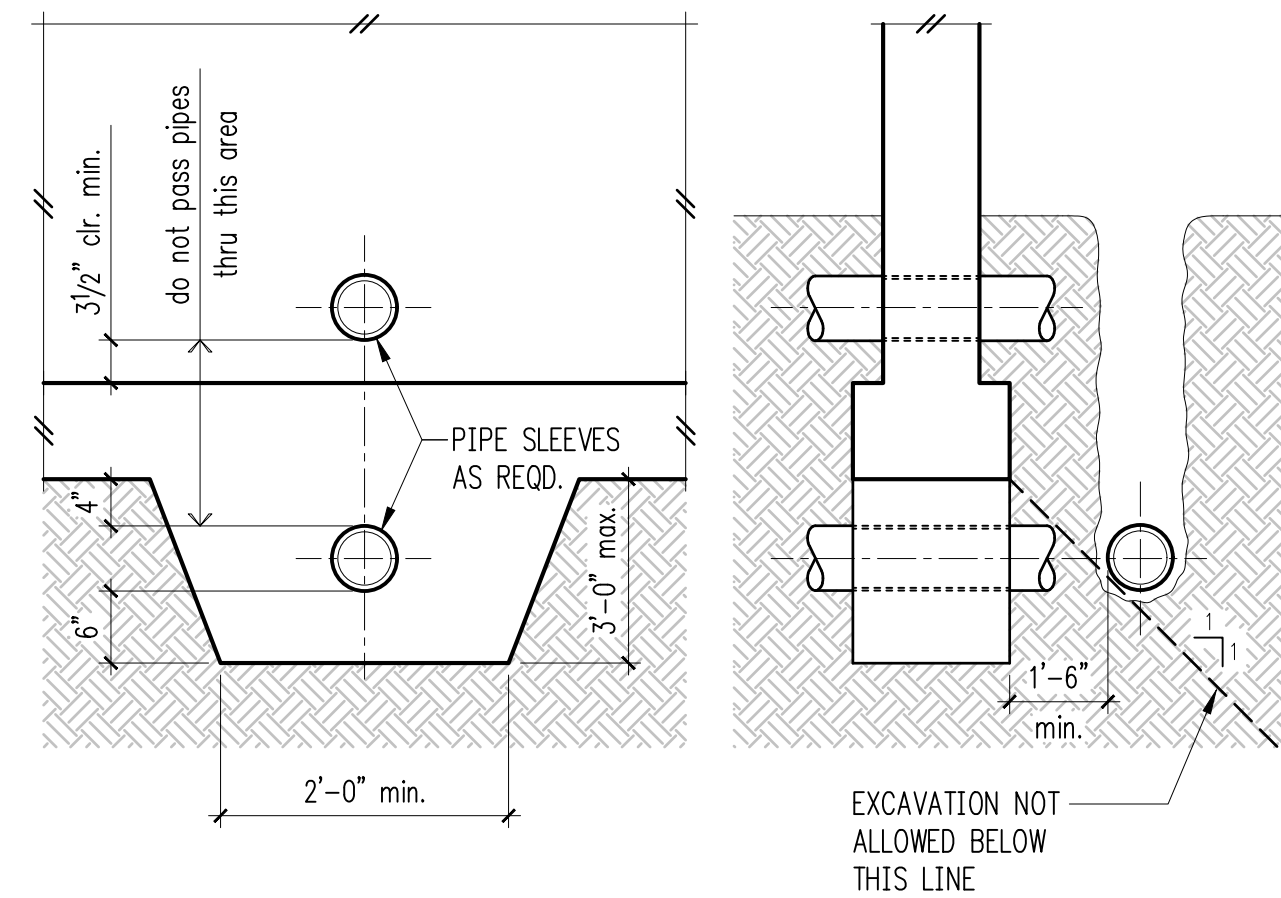
1. DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
2. REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
3. "W_" INDICATES PLYWOOD SHEARWALL BELOW FRAMING SHOWN. REFER TO SHEARWALL SCHEDULE FOR WALL ATTACHMENTS. ALL EXTERIOR WOOD FRAMED WALLS ARE W6, U.O.N.
4. PROVIDE (2) BEARING STUDS AT EACH END OF ALL HEADERS AND BEAMS OVER 3'-0" IN LENGTH, U.O.N.
5. PROVIDE LCE COLUMN CAP AND BASE AT ALL BEAM TO COLUMN CONNECTIONS U.O.N.
6. ALL POSTS ABOVE SHALL BEAR FULLY ON BEAMS OR POSTS BELOW AND SHALL HAVE FULL CONTINUOUS BEARING THROUGH FLOORS TO FOUNDATION.
7. TYPICAL ROOF FRAMING CONSISTS OF ROOFING PER ARCHITECTURAL DRAWINGS OVER 1/2" CDX OR 7/16" O.S.B. APA RATED SHEATHING (EXPOSURE 1), FACE GRAIN PERPENDICULAR TO FRAMING PER PLAN, U.O.N.
8. NAIL ROOF SHEATHING WITH 8D AT 6" O.C. AT ALL FRAMED PANEL EDGES AND OVER SHEARWALLS, AND AT 12" O.C. FIELD.
9. PROVIDE H1 AT ENDS OF ALL RAFTERS OR TRUSSES, U.O.N.

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

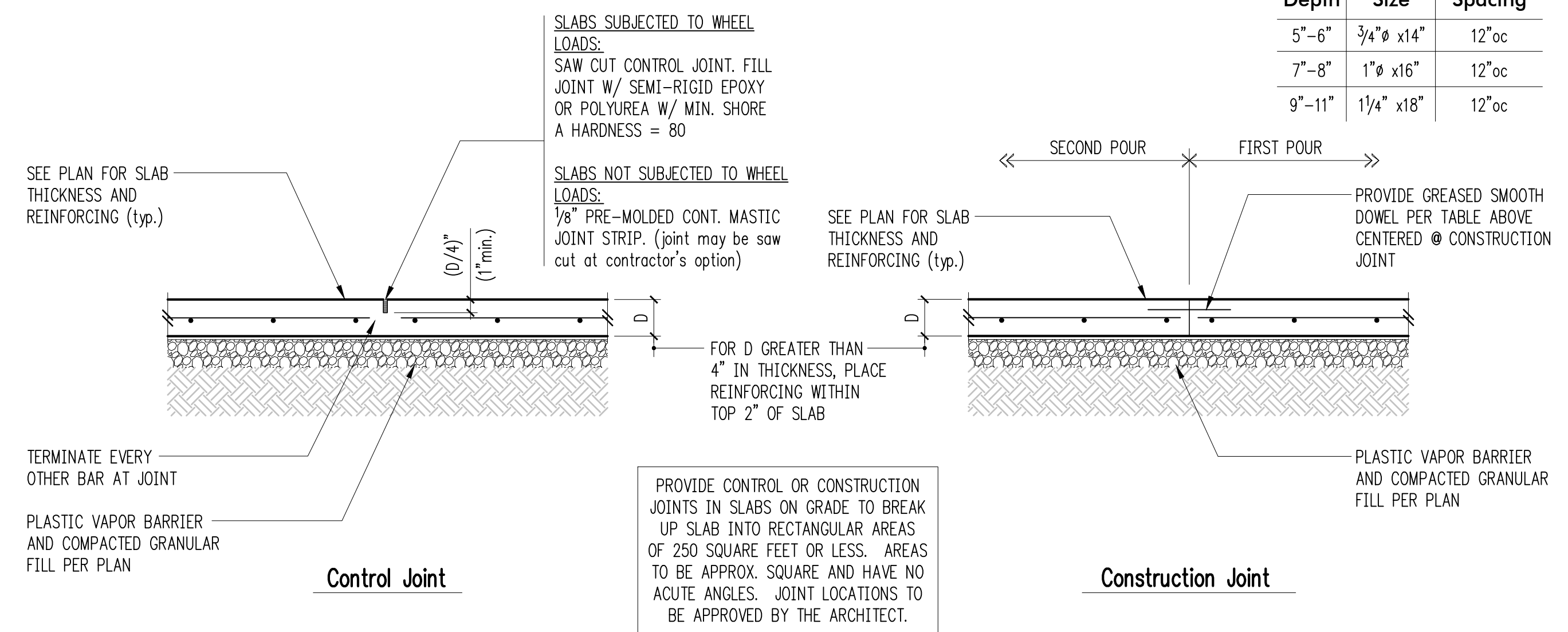




Typical HD19 Holddown 1



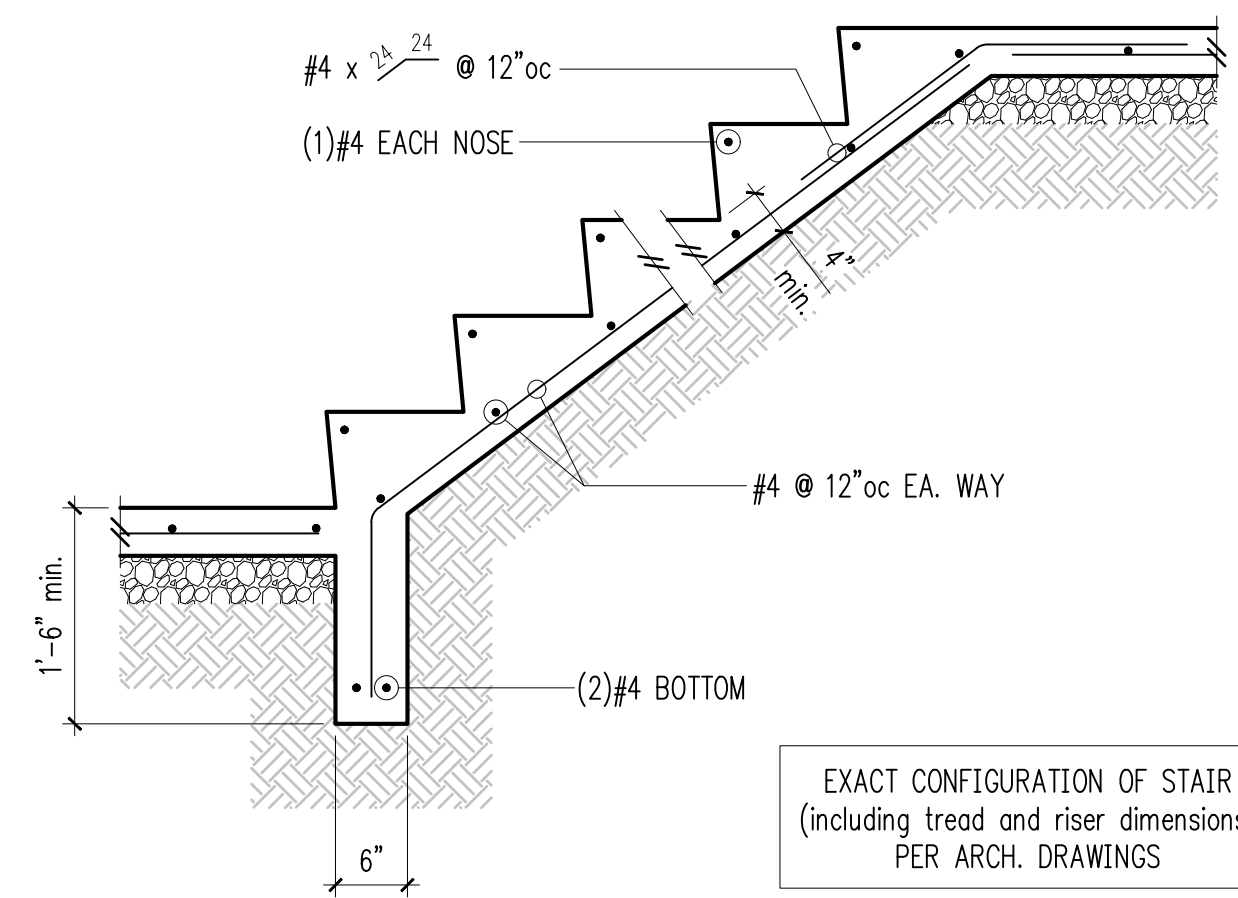
Pipe and Trench Locations 2



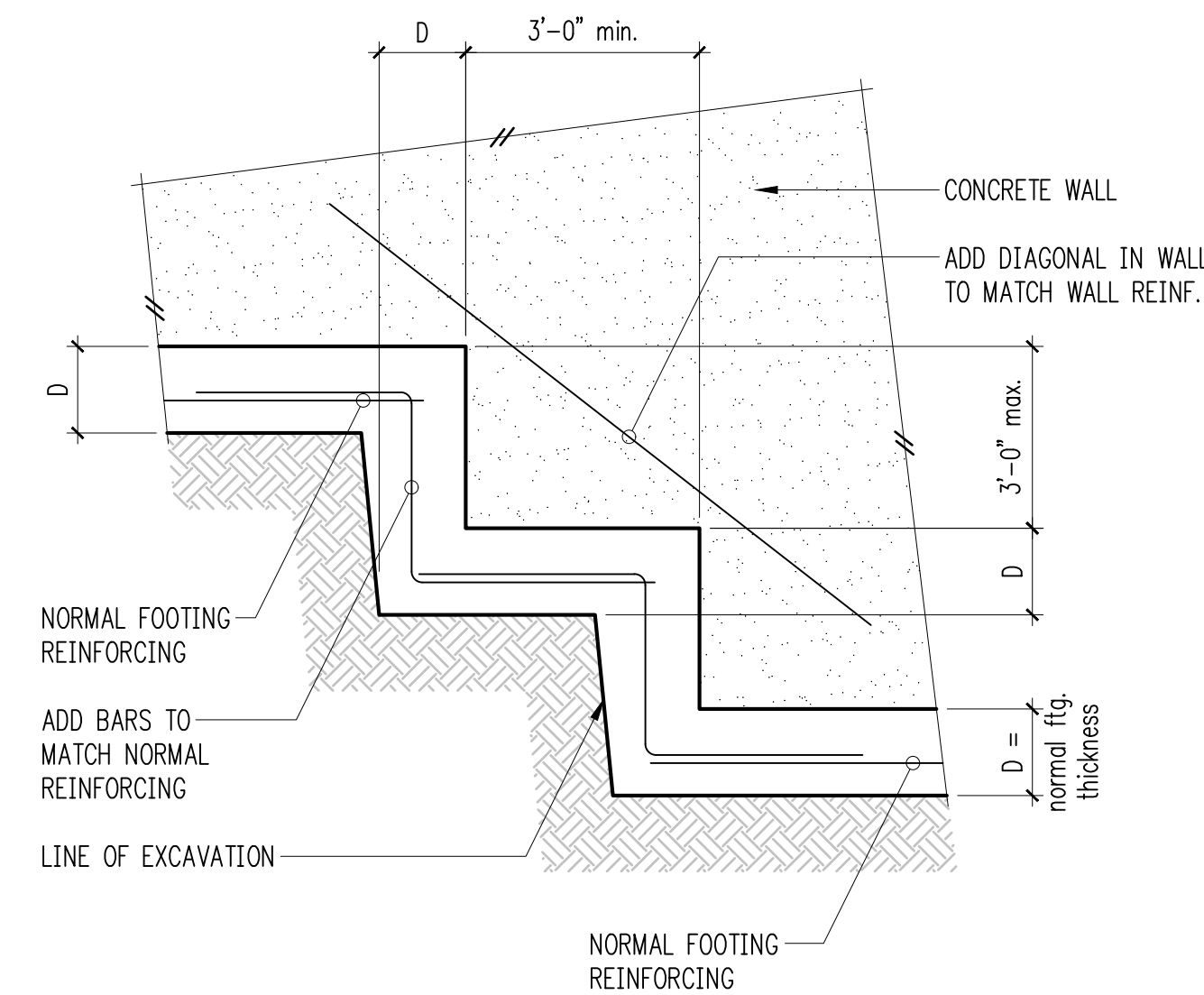
Table

Slab Depth	Dowel Size	Dowel Spacing
5"-6"	3/4" Ø x14"	12" oc
7"-8"	1" Ø x16"	12" oc
9"-11"	1 1/4" Ø x18"	12" oc

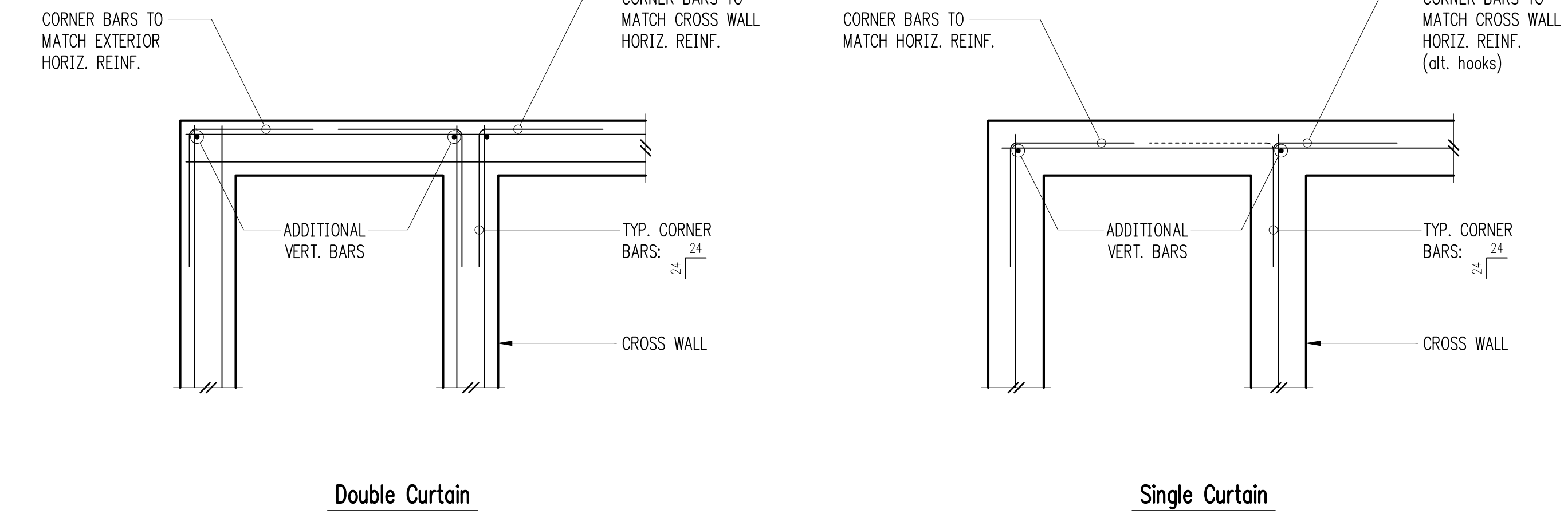
Typical Slab Joints (rebar) 4



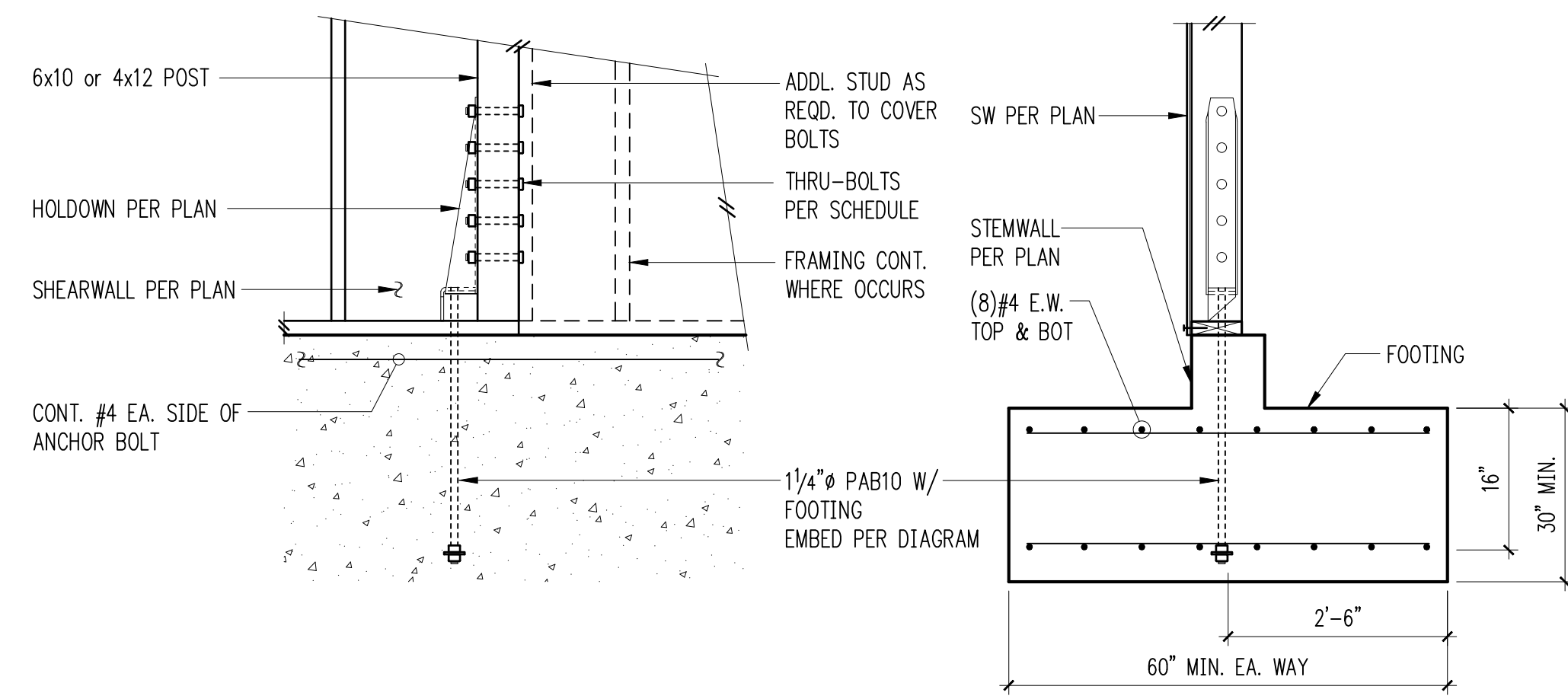
Typical Stair On Grade 5



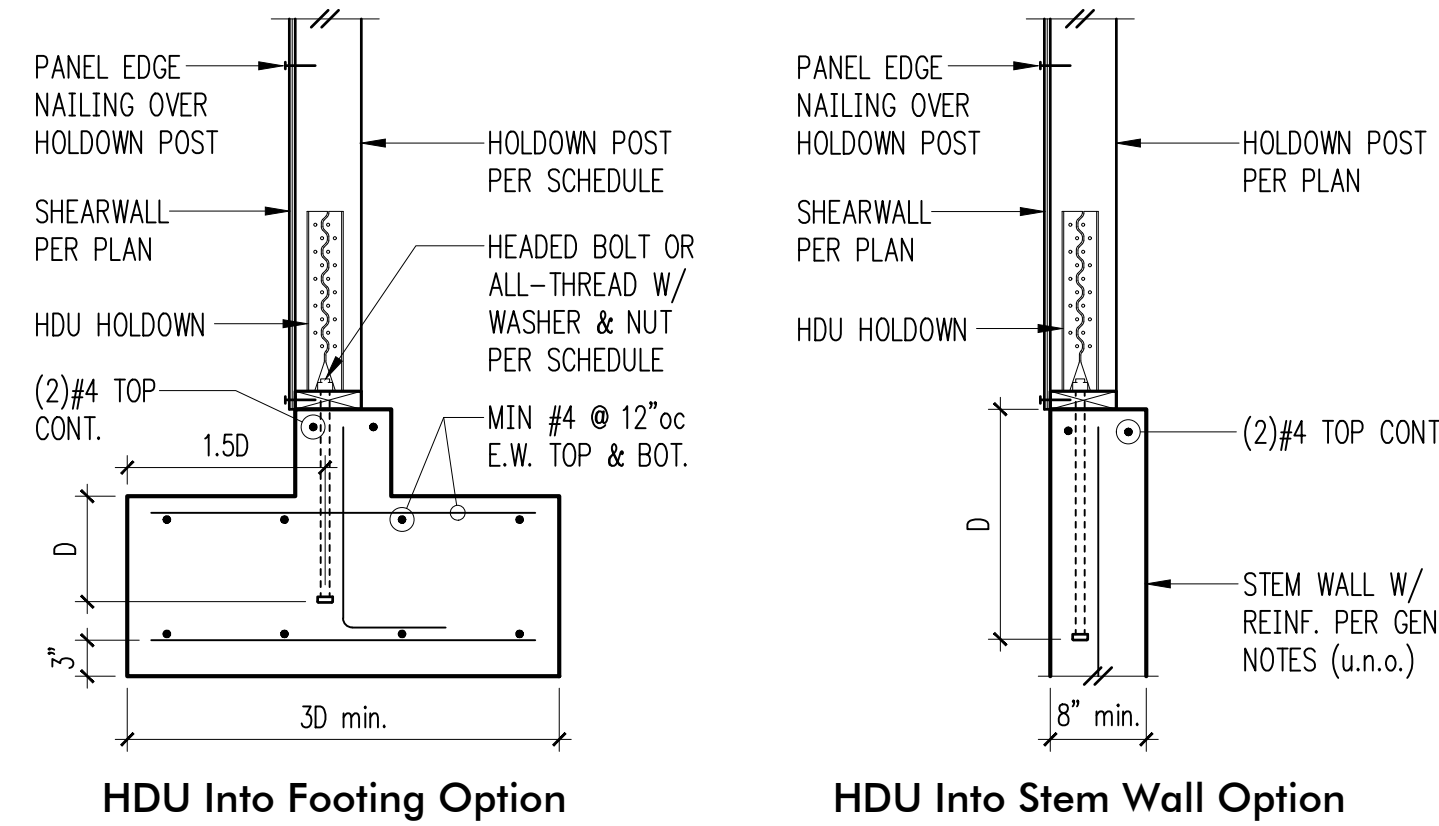
Typical Stepped Footing 6



Typical Corner Bars at Concrete Walls and Footings 8



Typical HD19 Holddown 10



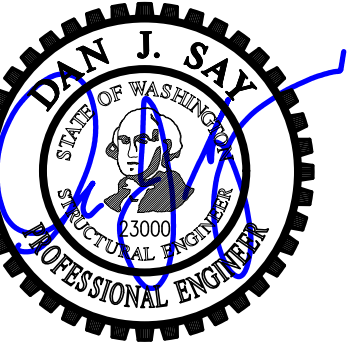
HDU Into Footing Option HDU Into Stem Wall Option

Holdown Schedule

Plan Mark	Screws	Anchor Bolt	Min. A.B. Embed (D)		Holdown Post ①	
			Stem Wall	Footing	if 2x4	if 2x6
HDU2-SDS2.5	(6)SDS 1/4"x2 1/2"	5/8" Ø	12"	4"	(2) 2x4	(2) 2x6
HDU4-SDS2.5	(10)SDS 1/4"x2 1/2"	5/8" Ø	SB9x24	6"	4x4	4x6
HDU5-SDS2.5	(14)SDS 1/4"x2 1/2"	5/8" Ø	SB9x24	7"	4x4	4x6
HDU8-SDS2.5	(20)SDS 1/4"x2 1/2"	7/8" Ø	SSTB28	8"	4x6	6x6
HDU11-SDS2.5	(30)SDS 1/4"x2 1/2"	1" Ø	SB1x30	10"	4x8	6x6
HDU14-SDS2.5	(36)SDS 1/4"x2 1/2"	1" Ø	N/A	12"	4x8	6x6

① MINIMUM SIZE OF POST AT END OF WALL UNLESS OTHERWISE NOTED ON FRAMING PLANS.

Typical HDU Holddown 12



DESIGN: HAA, BDM
DRAWN: NHD
CHECKED: BDM
APPROVED: DJS

REVISIONS:

1	Revision 1	Aug. 15, 2022
2	85% CD Set	Jan. 13, 2023
3	Permit Revisions	Jun. 30, 2023
4	CA Revisions	Nov. 3, 2023

DPD:

PROJECT TITLE:
Clarkson Residence
8163 West Mercer Way
Mercer Island, WA 98040

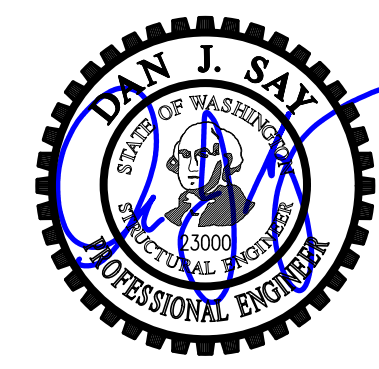
ARCHITECT:
Brandt Design Group
66 Bell Street, Unit 1
Seattle, WA 98121
PH 206.239.0850

ISSUE:
65% CD Set

SHEET TITLE:
Typical Concrete Details

SCALE: 3/4" = 1'-0" U.N.O.
DATE: June 22, 2022
PROJECT NO: 01519-2021-11
SHEET NO:

S3.1



DESIGN: HAA, BDM
 DRAWN: NHD
 CHECKED: BDM
 APPROVED: DJS

REVISIONS:

1	Revision 1	Aug. 15, 2022
2	85% CD Set	Jan. 13, 2023
3	Permit Revisions	Jun. 30, 2023
4	CA Revisions	Nov. 3, 2023

DPD:

PROJECT TITLE:
Clarkson Residence
 8163 West Mercer Way
 Mercer Island, WA 98040

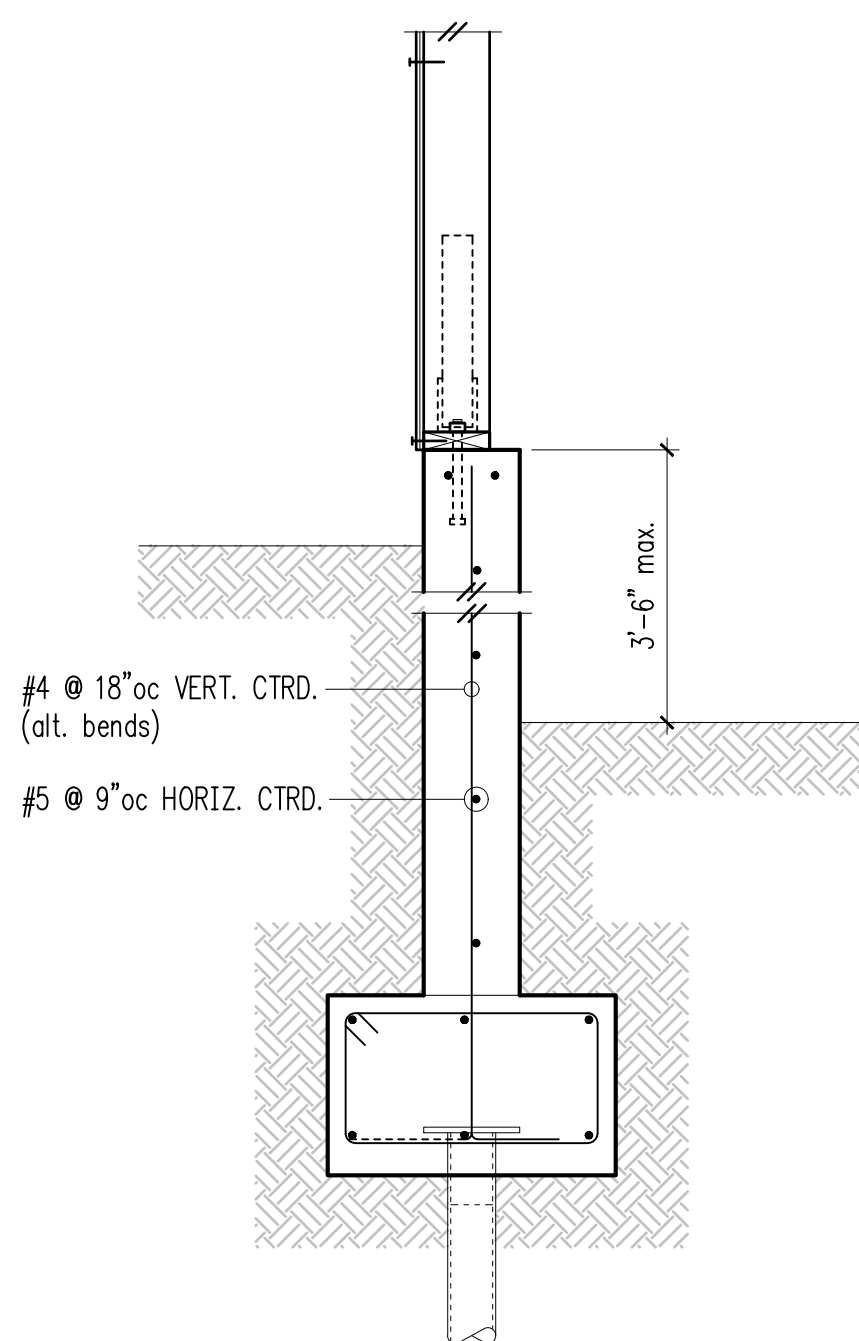
ARCHITECT:
Brandt Design Group
 66 Bell Street, Unit 1
 Seattle, WA 98121
 PH 206.239.0850

ISSUE:
65% CD Set

SHEET TITLE:
Foundation Details

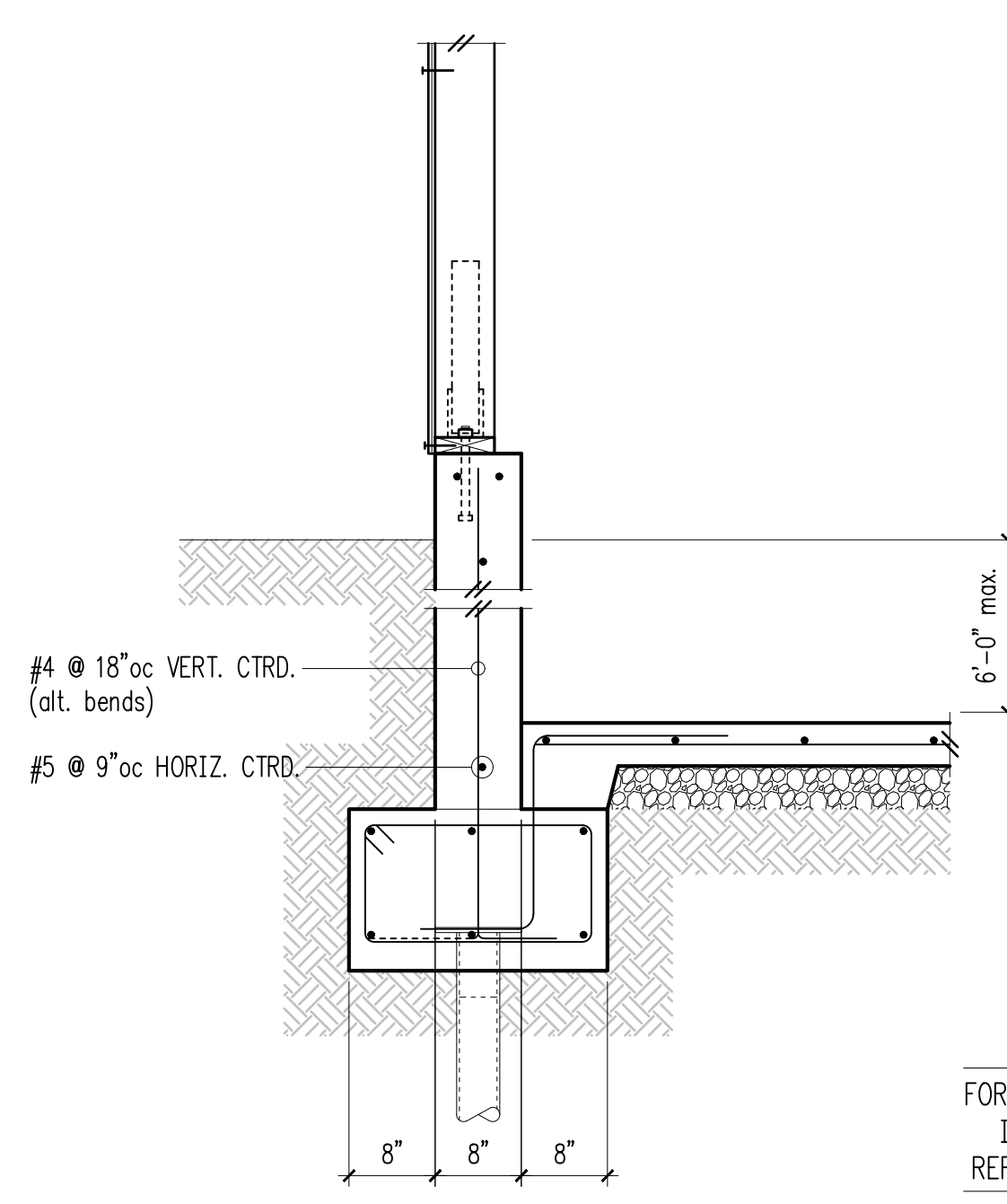
SCALE: 3/4" = 1'-0" U.N.O.
 DATE: June 22, 2022
 PROJECT NO: 01519-2021-11
 SHEET NO:

S3.2



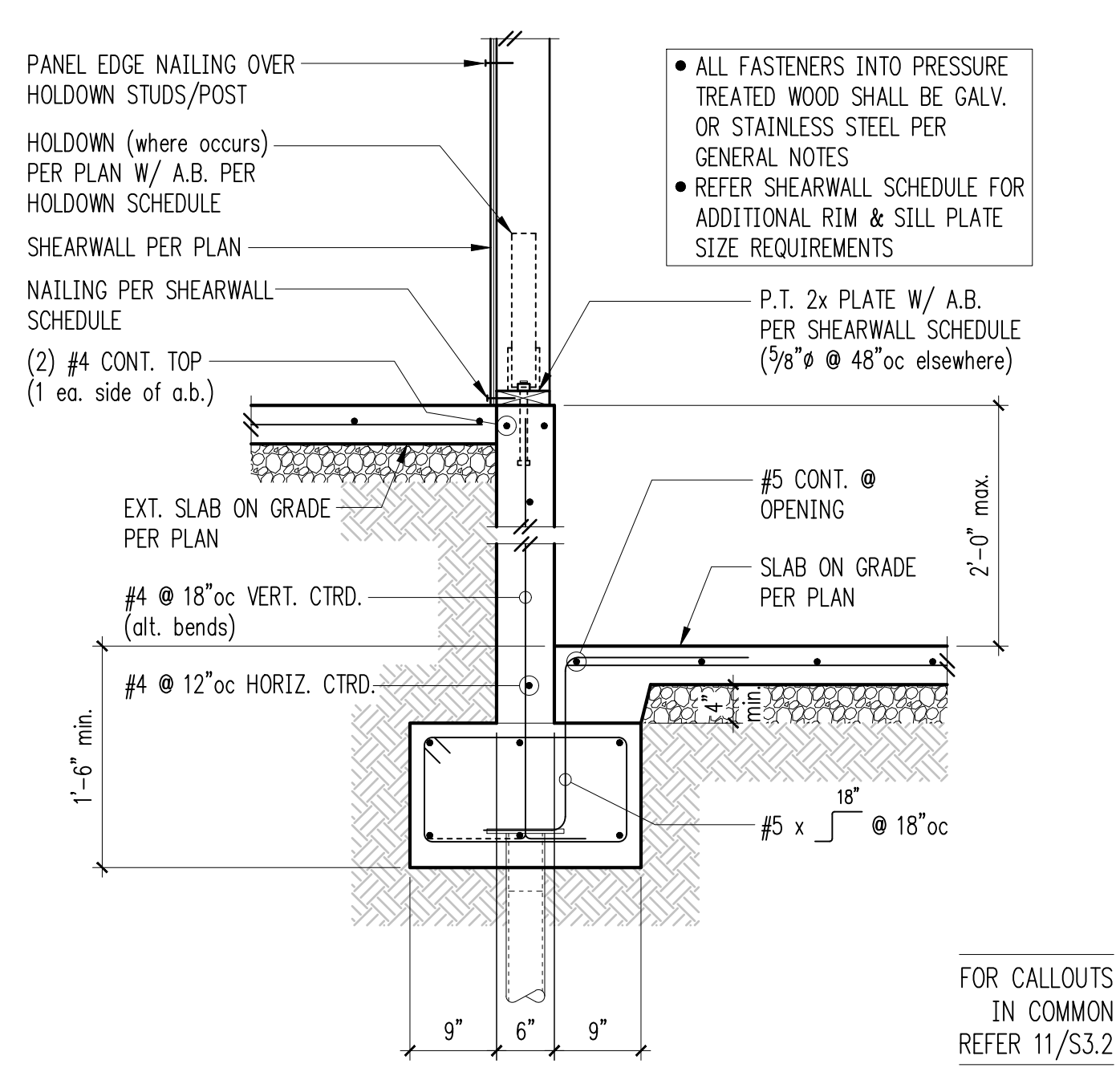
FOR CALLOUTS
 IN COMMON
 REFER 11/S3.2

1



FOR CALLOUTS
 IN COMMON
 REFER 3/S3.2

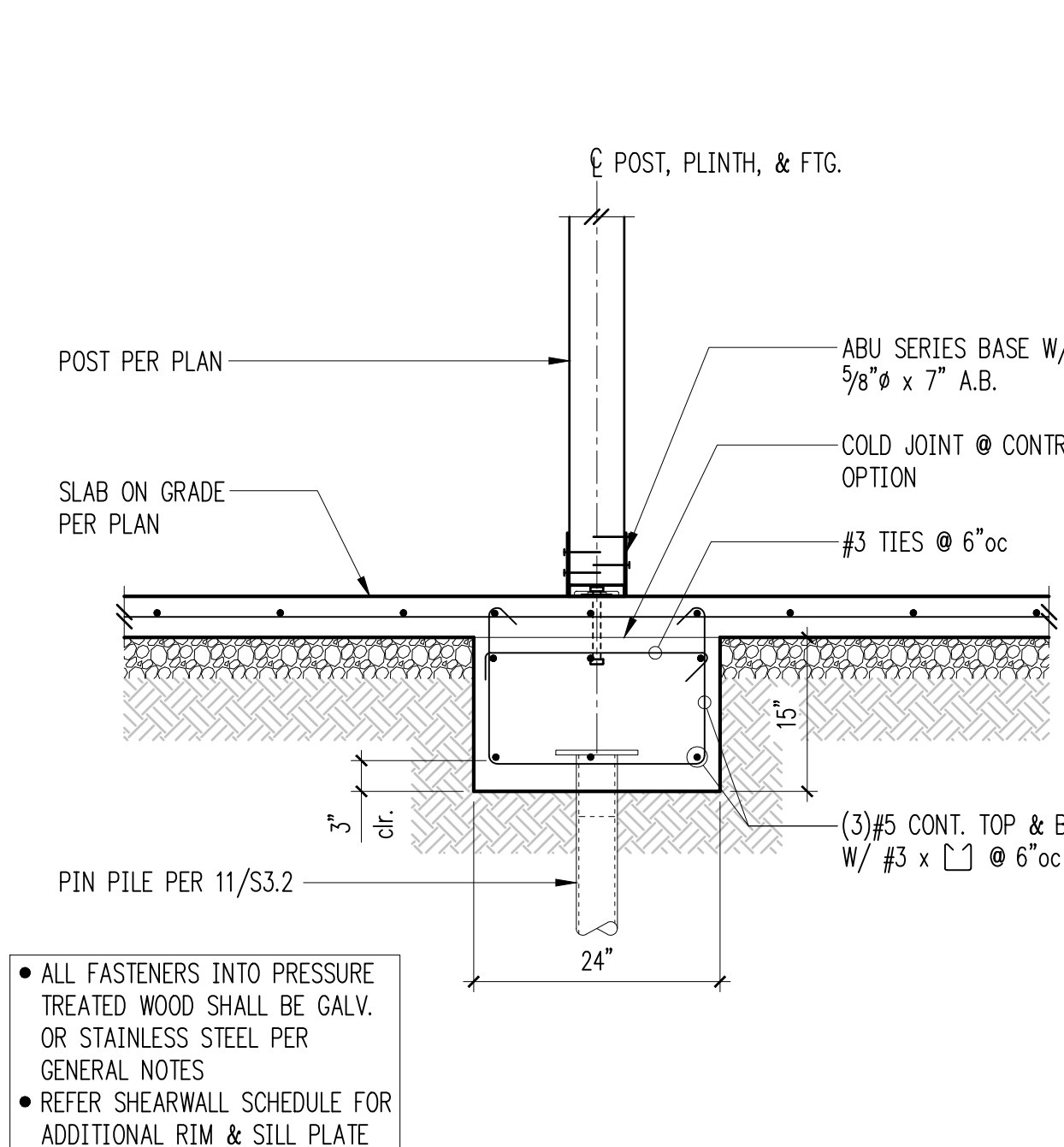
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FOR CALLOUTS
 IN COMMON
 REFER 11/S3.2

3

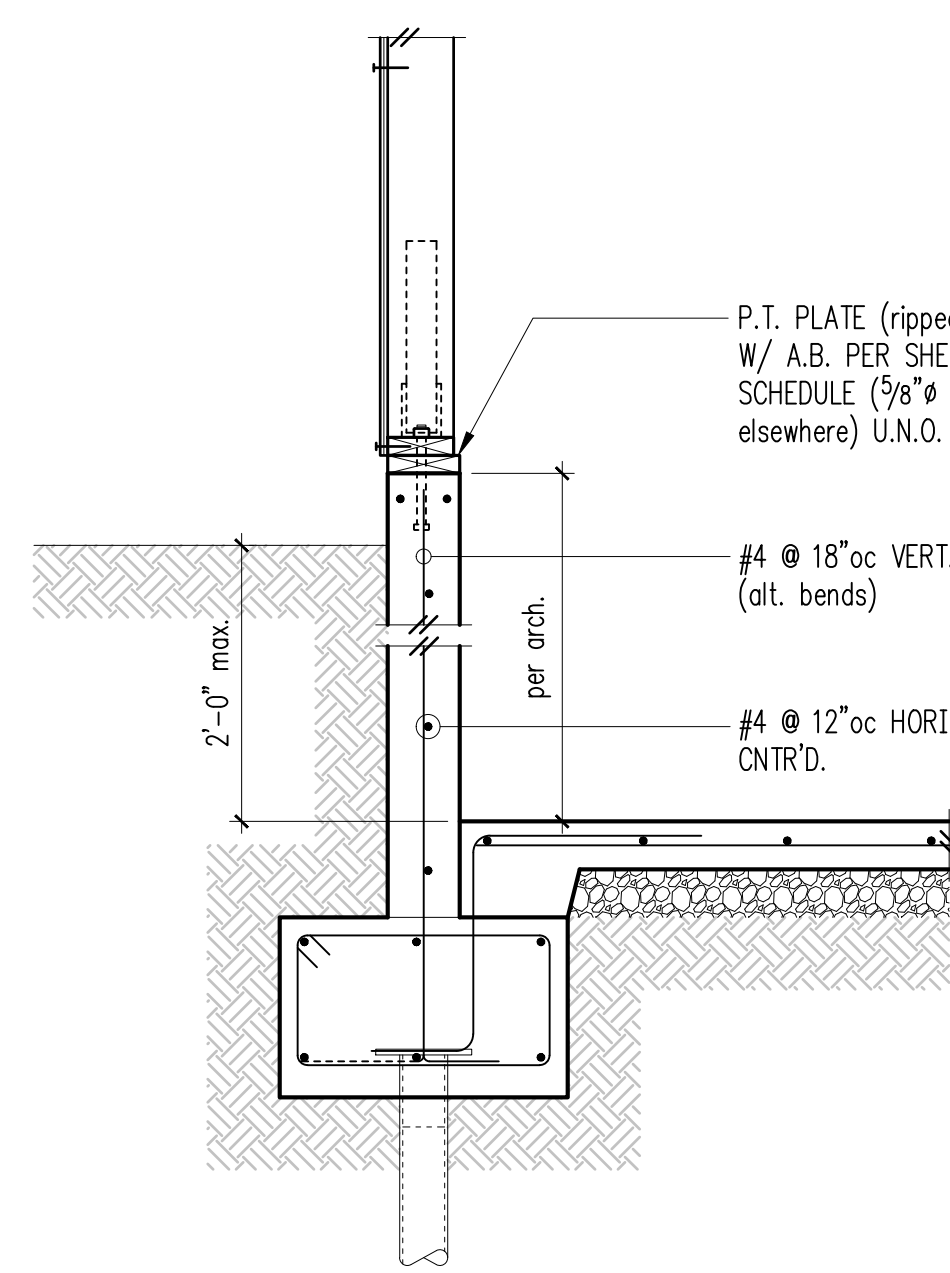
Exterior Wall w/ Slab on Grade & High Grade



• ALL FASTENERS INTO PRESSURE TREATED WOOD SHALL BE GALV. OR STAINLESS STEEL PER GENERAL NOTES
 • REFER SHEARWALL SCHEDULE FOR ADDITIONAL RIM & SILL PLATE SIZE REQUIREMENTS

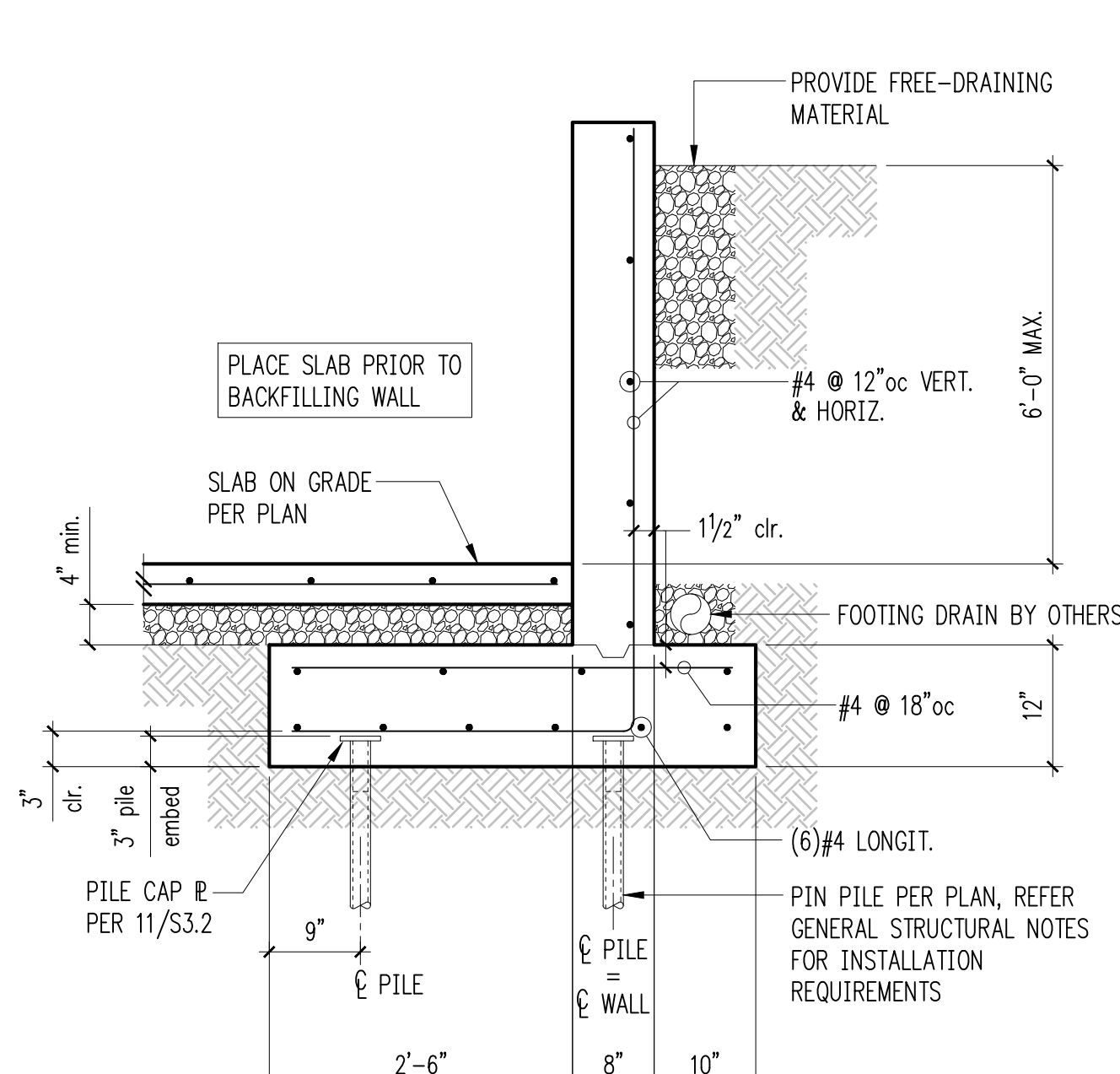
Interior Wall w/ Thickened Slab

4



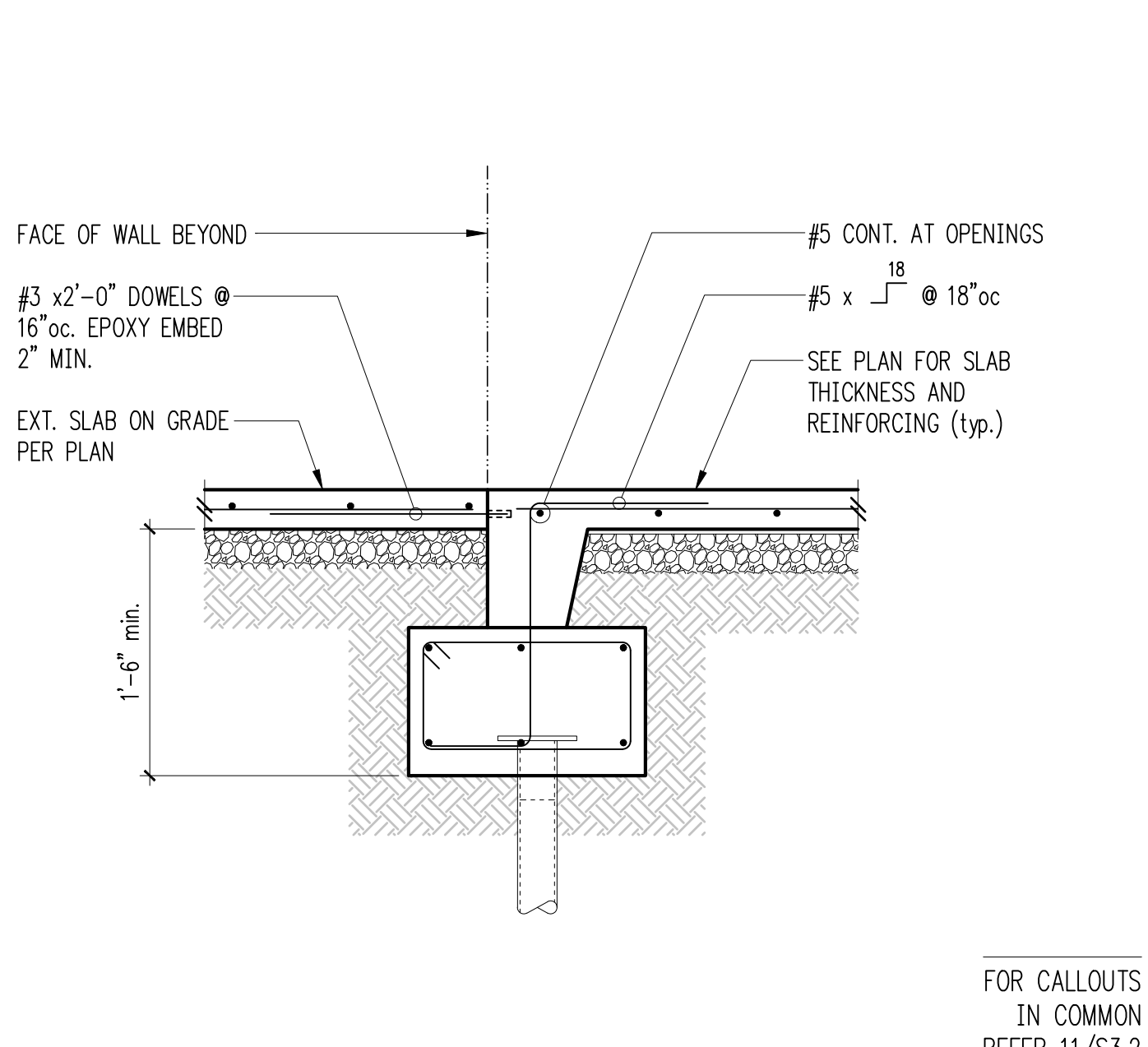
FOR CALLOUTS
 IN COMMON
 REFER 3/S3.2

5



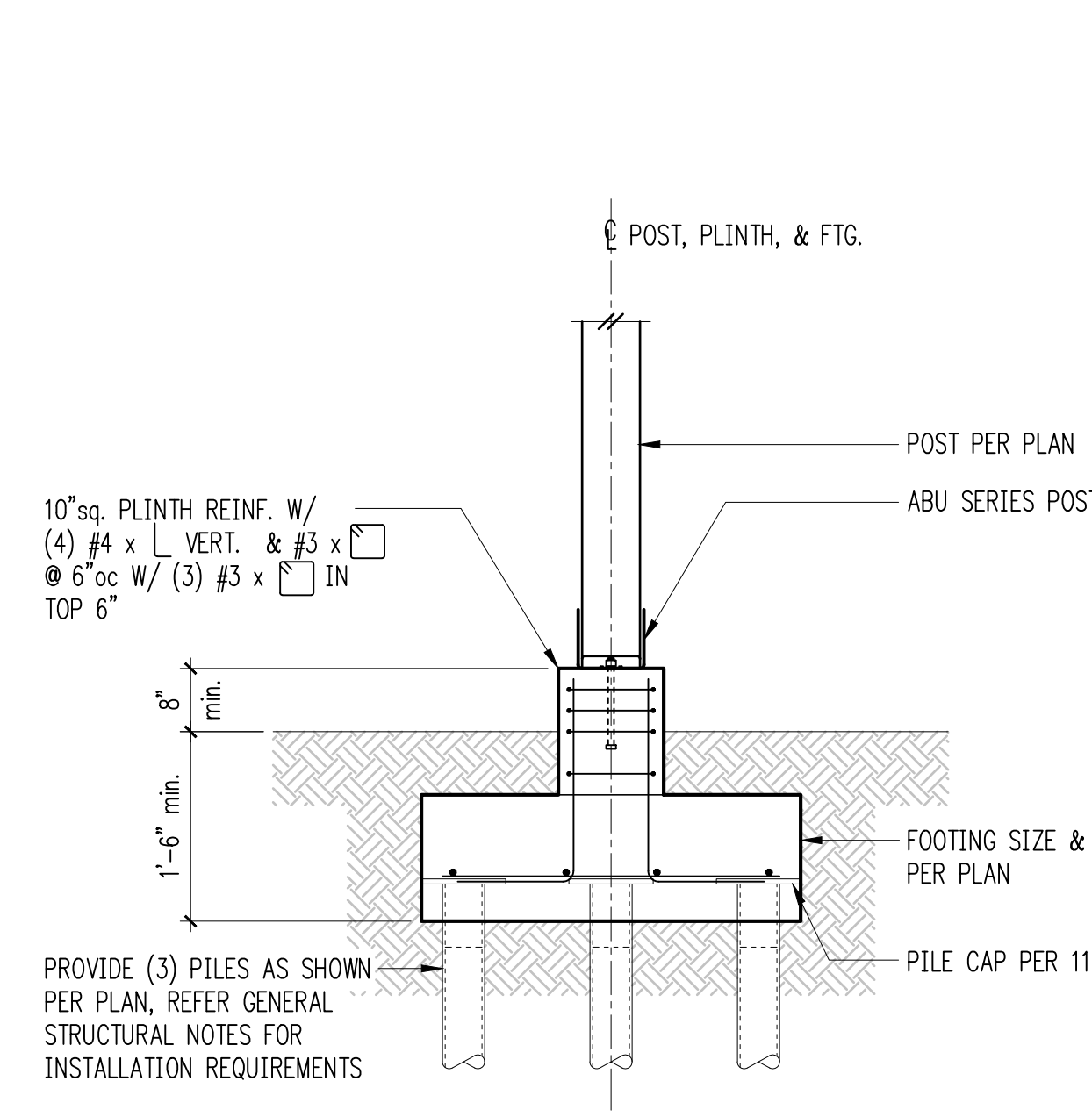
FOR CALLOUTS
 IN COMMON
 REFER 11/S3.2

6



FOR CALLOUTS
 IN COMMON
 REFER 11/S3.2

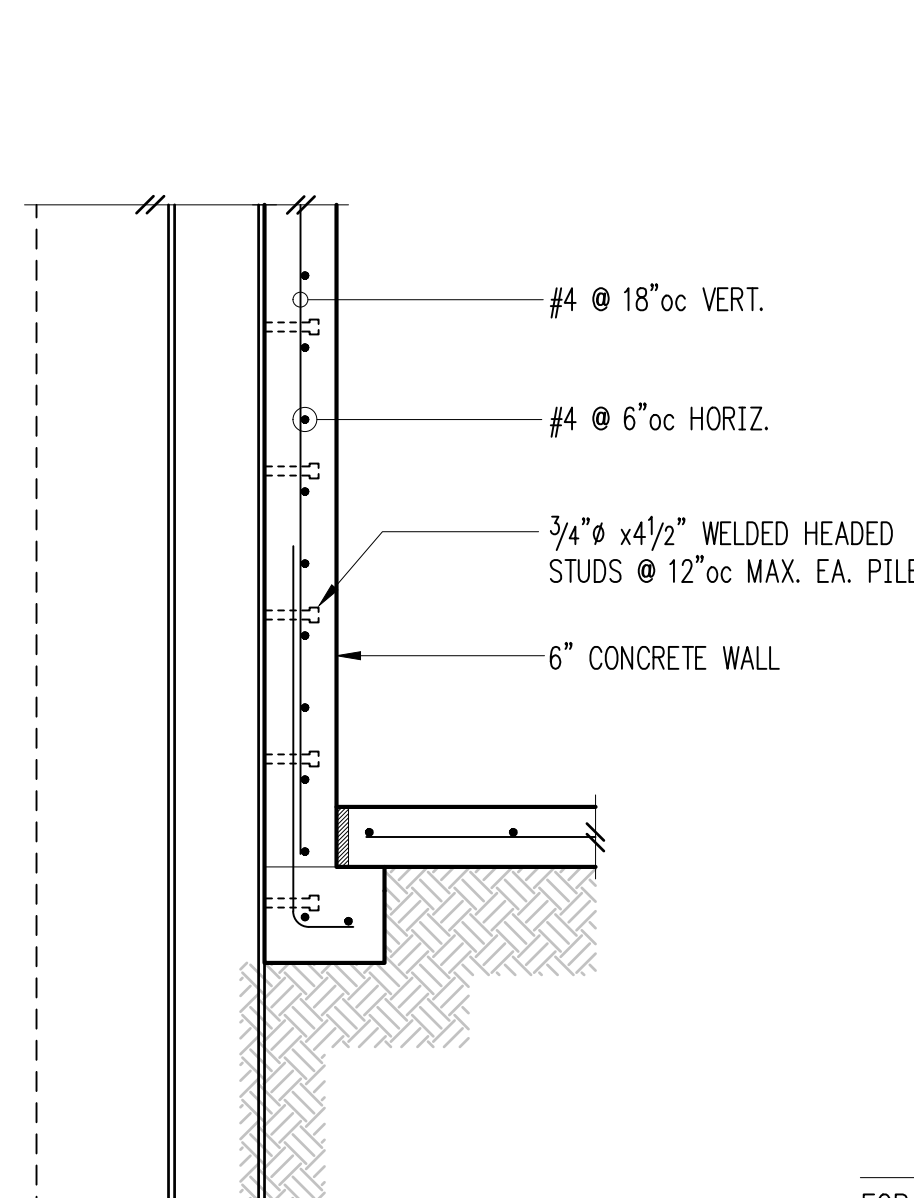
7



FOR CALLOUTS
 IN COMMON
 REFER 11/S3.2

Deck or Canopy Post Footing

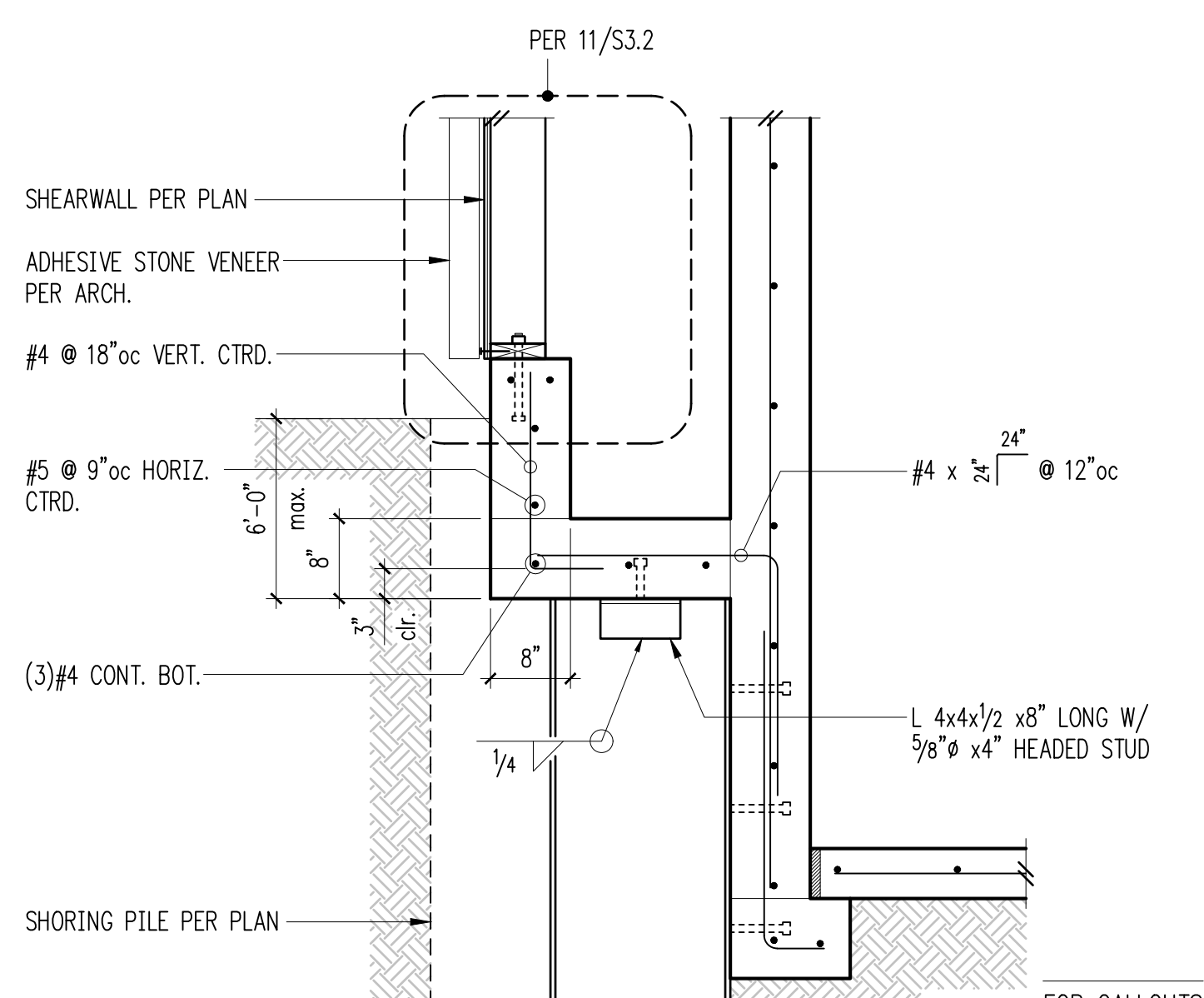
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FOR CALLOUTS
 IN COMMON
 REFER 12/S3.2

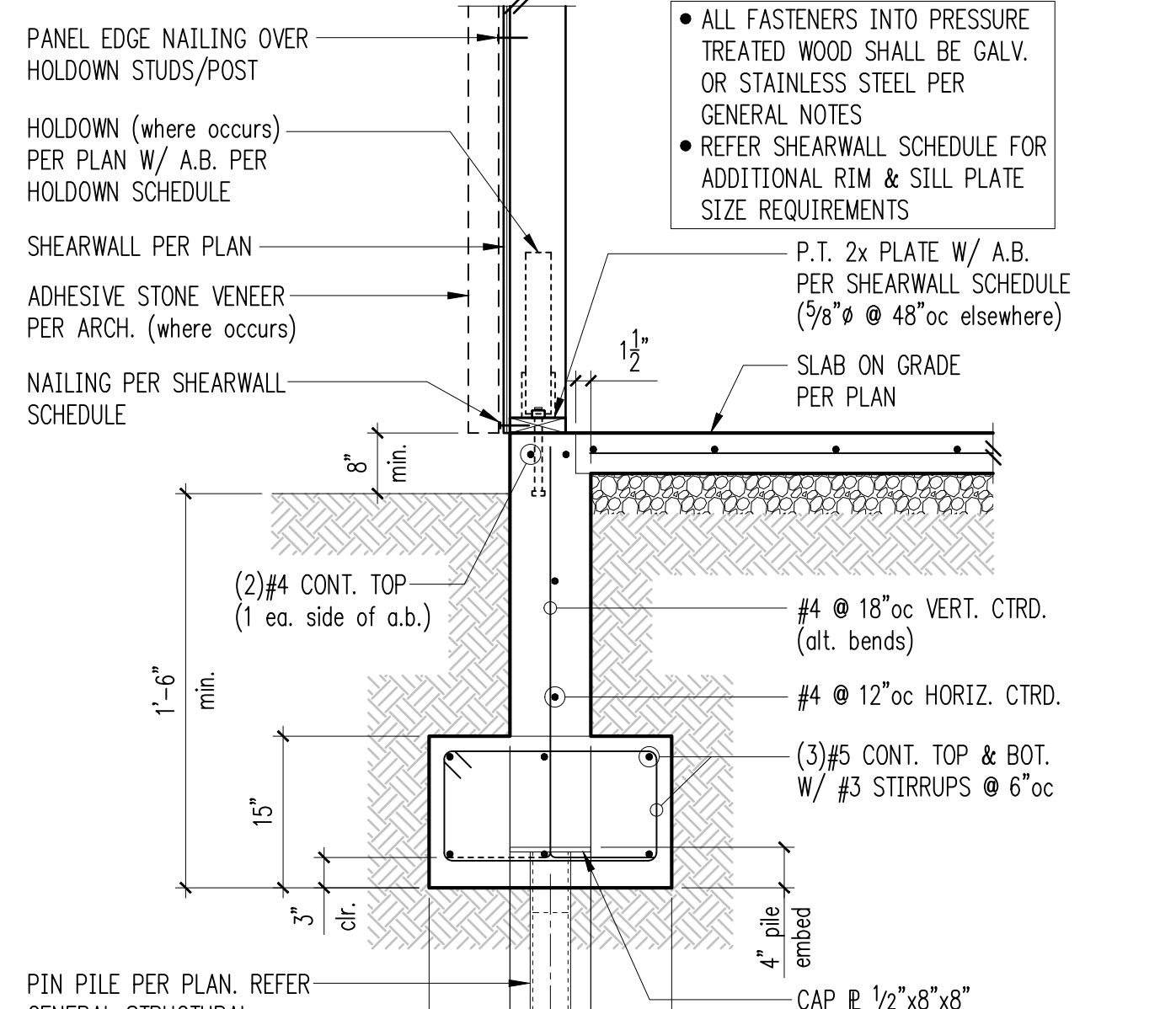
9

Wall Footing at Permanent Shoring Piles at Site Walls



FOR CALLOUTS
 IN COMMON
 REFER 12/S3.2

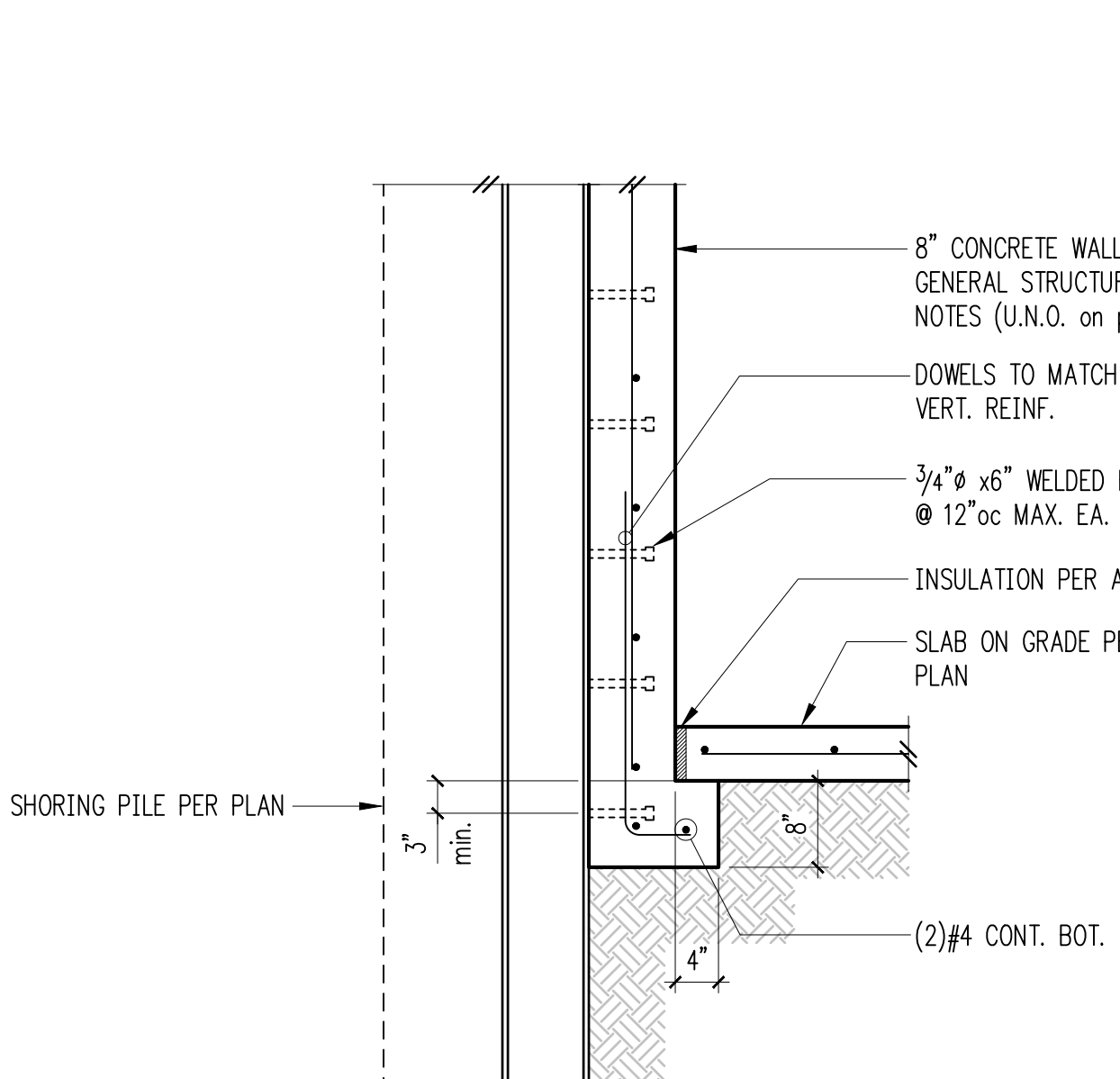
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FOR CALLOUTS
 IN COMMON
 REFER 11/S3.2

11

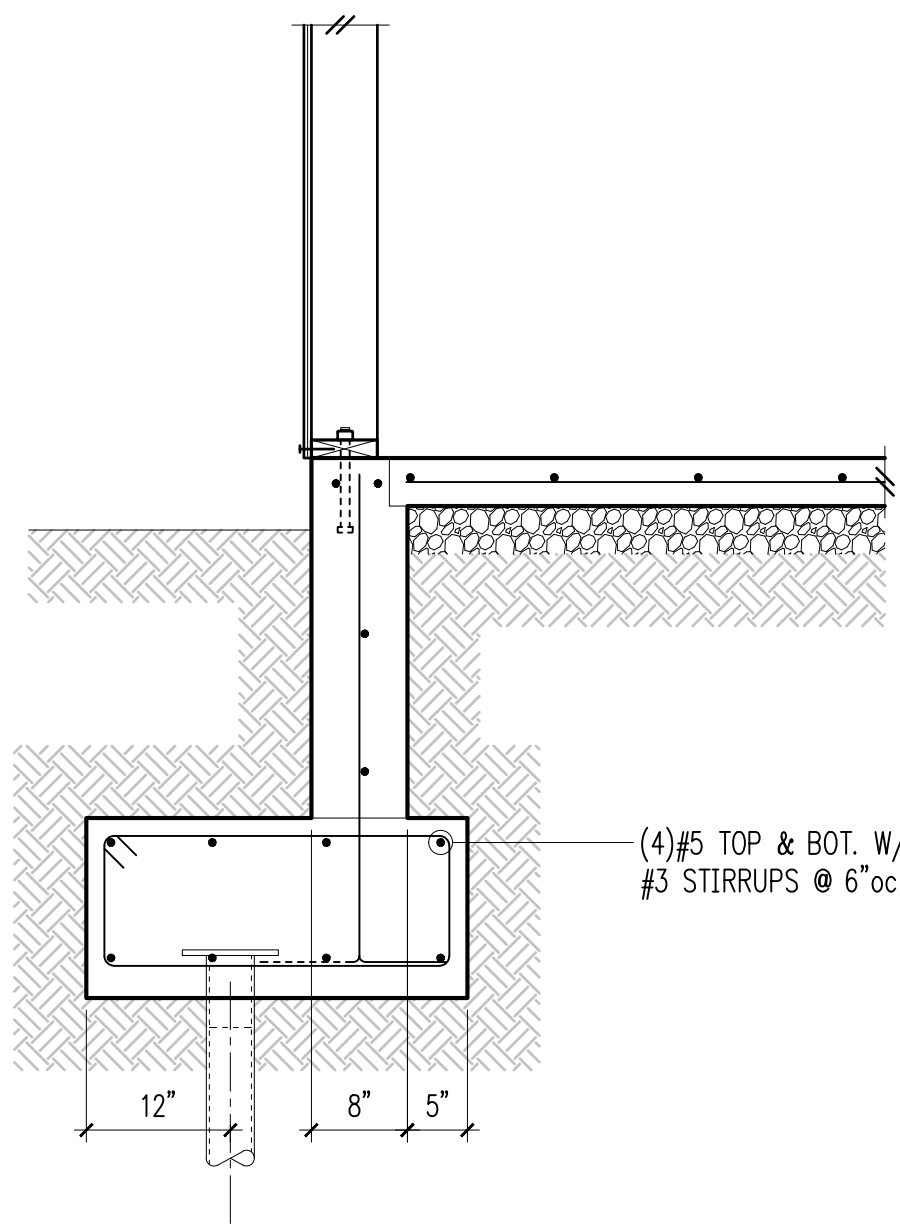
Exterior Wall w/ Slab on Grade



FOR CALLOUTS
 IN COMMON
 REFER 11/S3.2

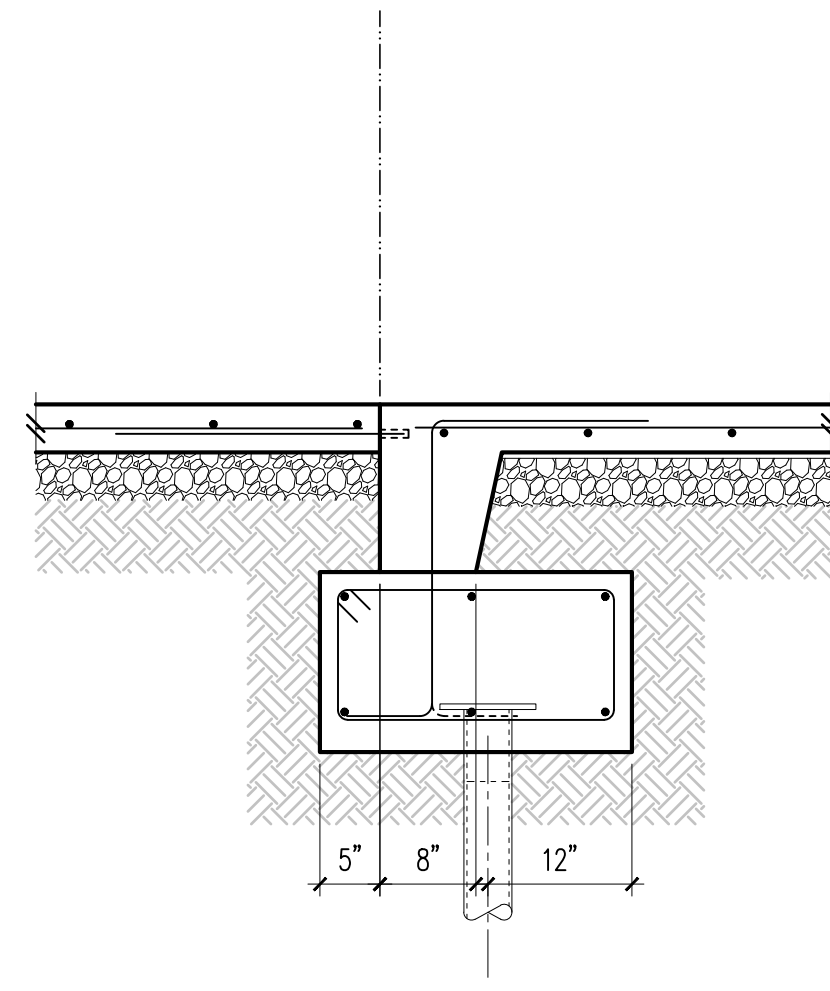
Typical Wall Footing at Permanent Shoring Piles

12



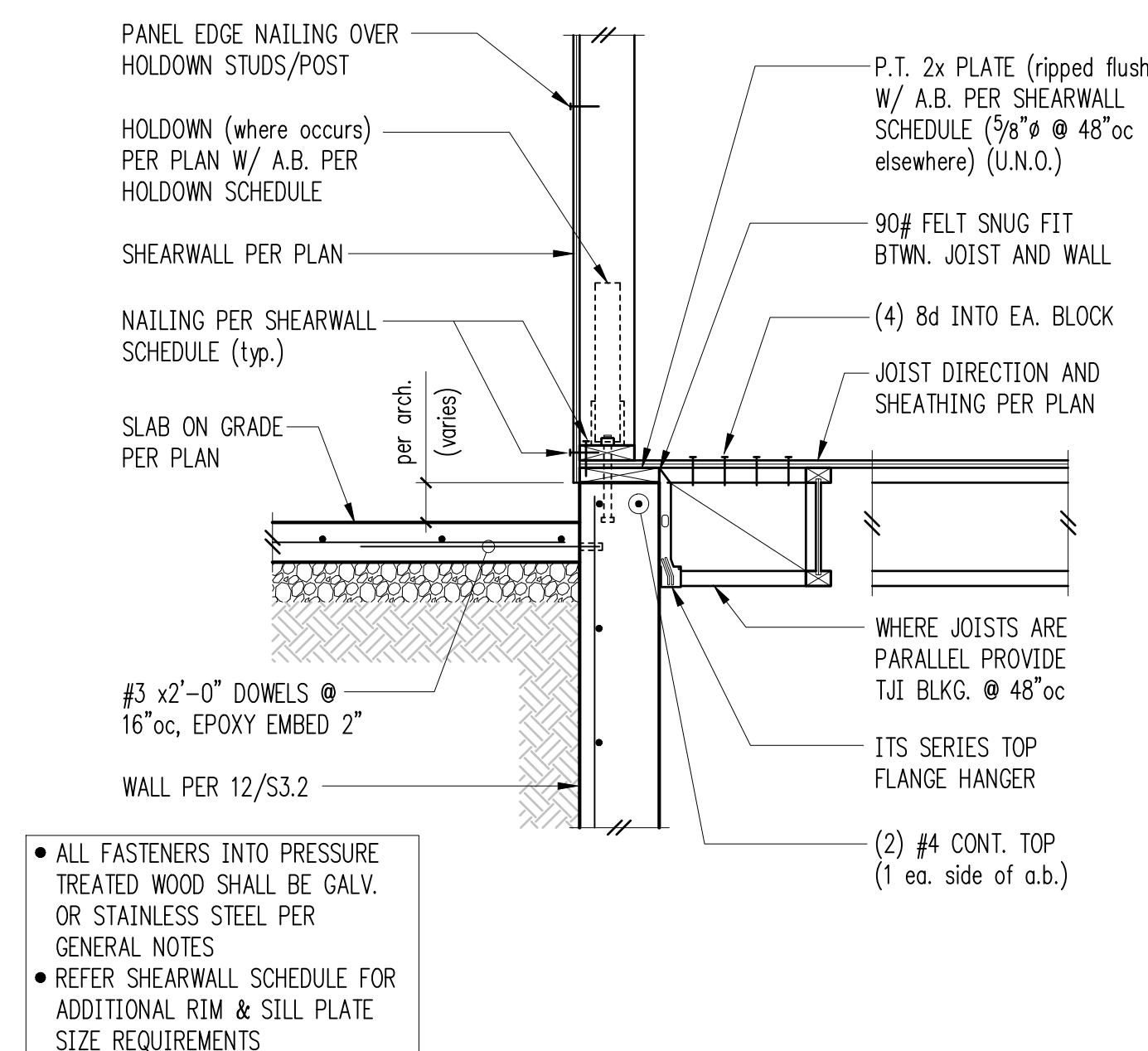
FOR CALLOUTS
IN COMMON
REFER 11/S3.2

1



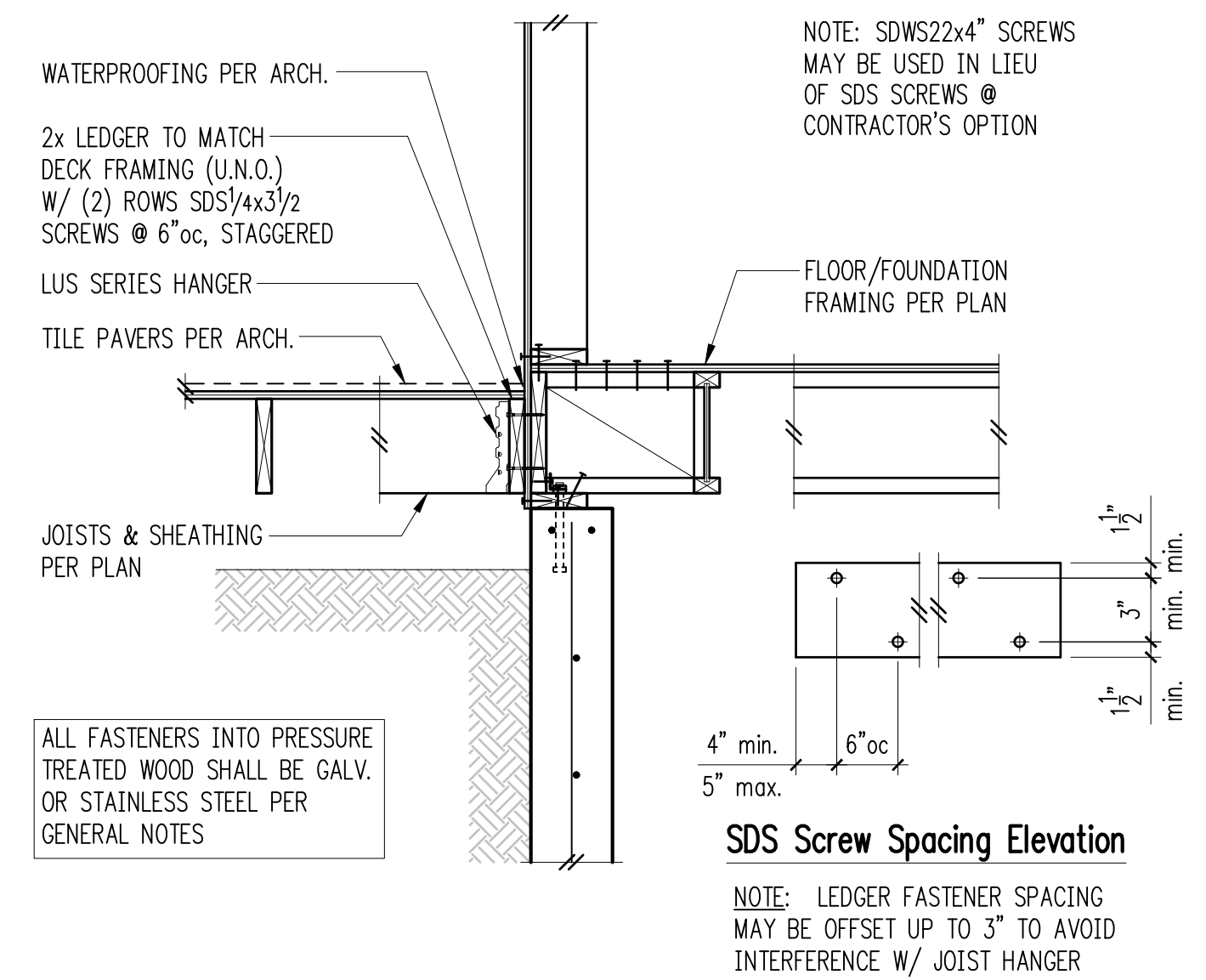
FOR CALLOUTS
IN COMMON
REFER 7/S3.2

2



- ALL FASTENERS INTO PRESSURE TREATED WOOD SHALL BE GALV. OR STAINLESS STEEL PER GENERAL NOTES
- REFER SHEARWALL SCHEDULE FOR ADDITIONAL RIM & SILL PLATE SIZE REQUIREMENTS

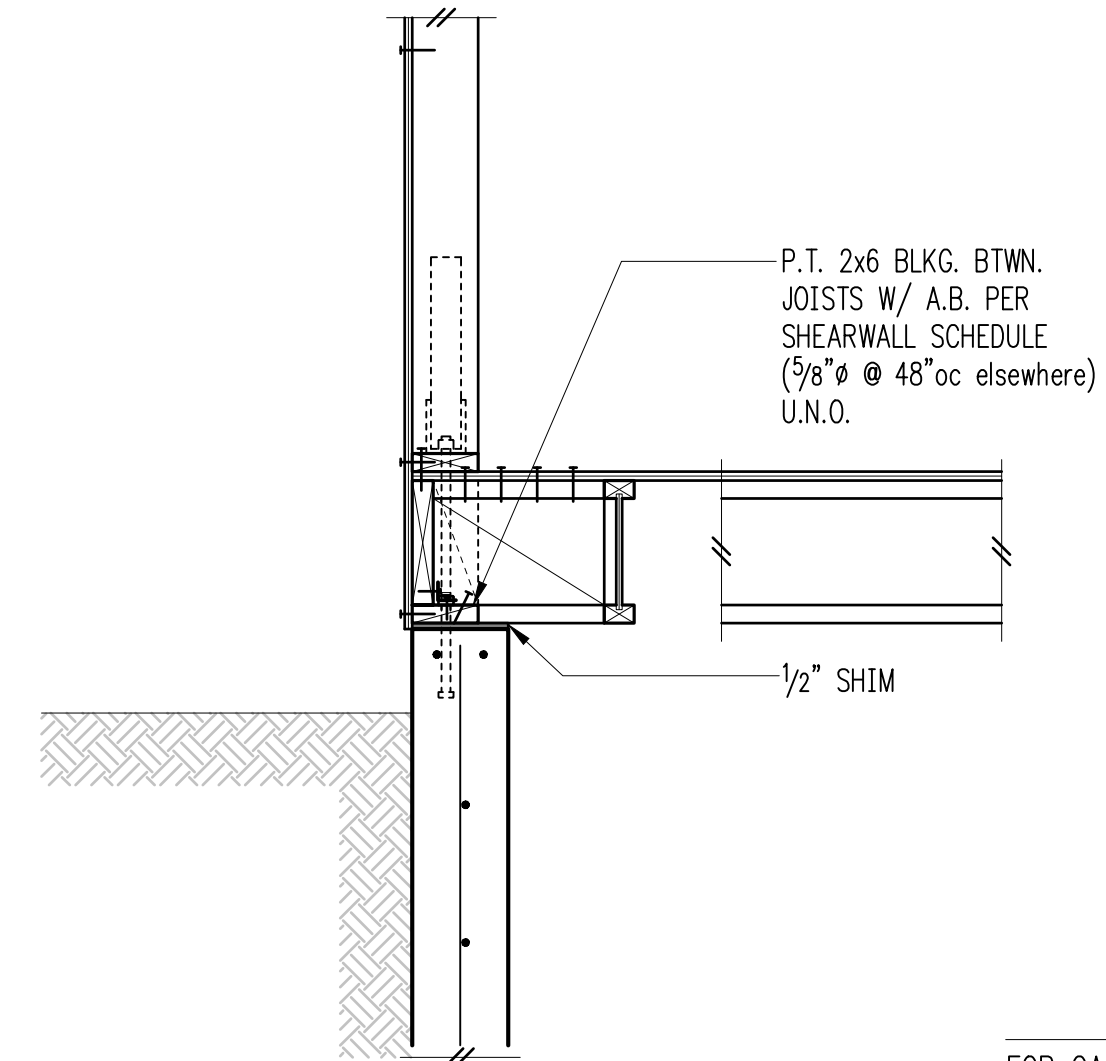
Exterior Framing (w/TJI) at Basement (High Grade) 3



NOTE: SDS22x4" SCREWS MAY BE USED IN LIEU OF SDS SCREWS @ CONTRACTOR'S OPTION

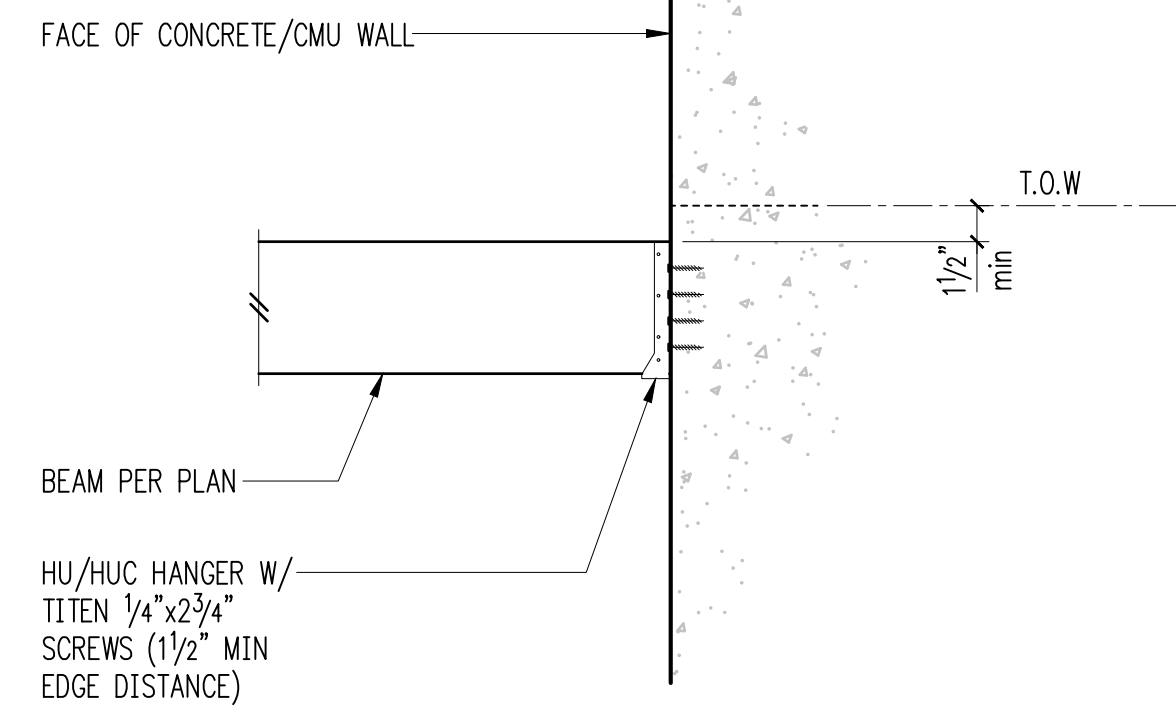
NOTE: LEDGER FASTENER SPACING MAY BE OFFSET UP TO 3" TO AVOID INTERFERENCE W/ JOIST HANGER

Typical Deck Ledger Detail 4

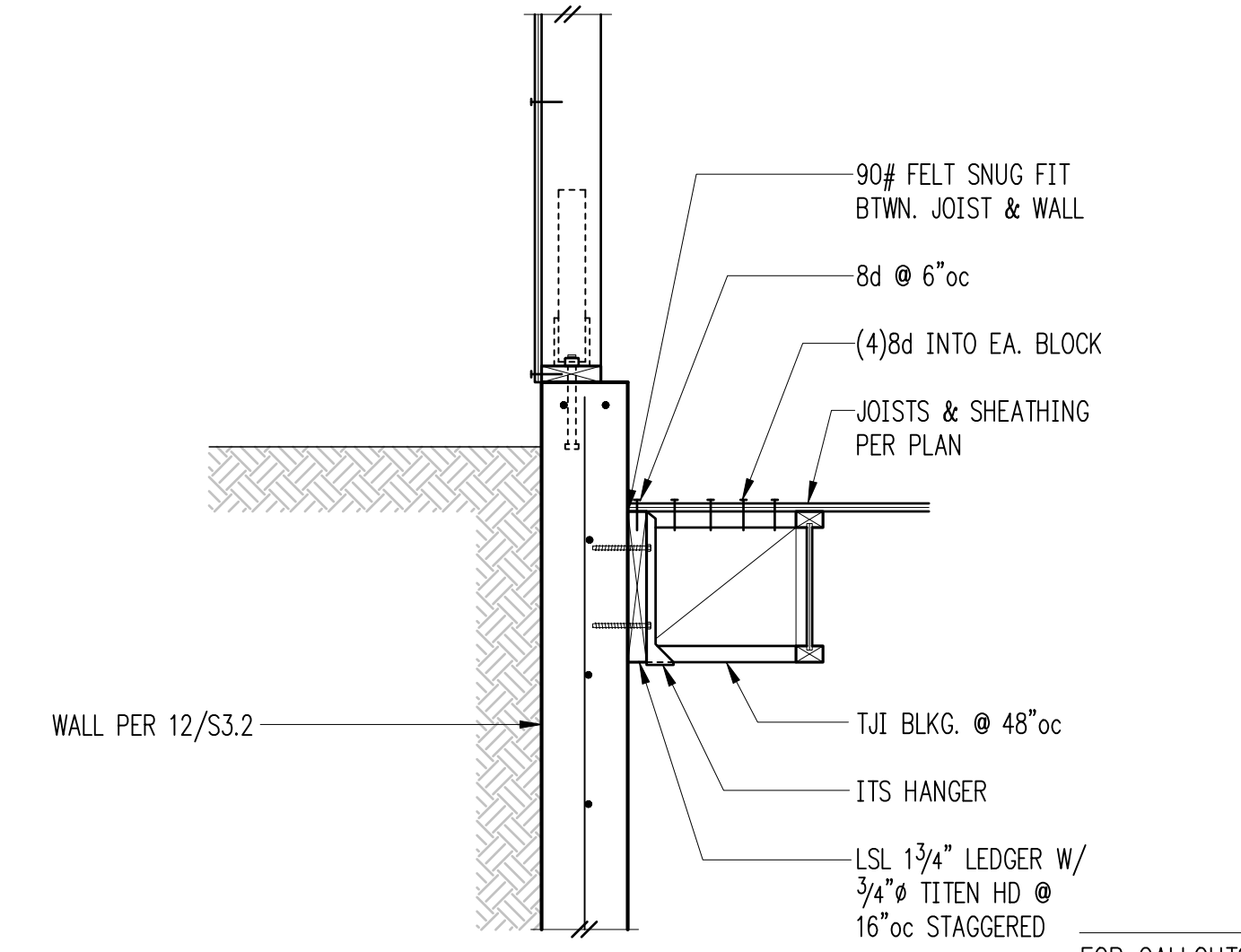


FOR CALLOUTS
IN COMMON
REFER 12/S3.3

5

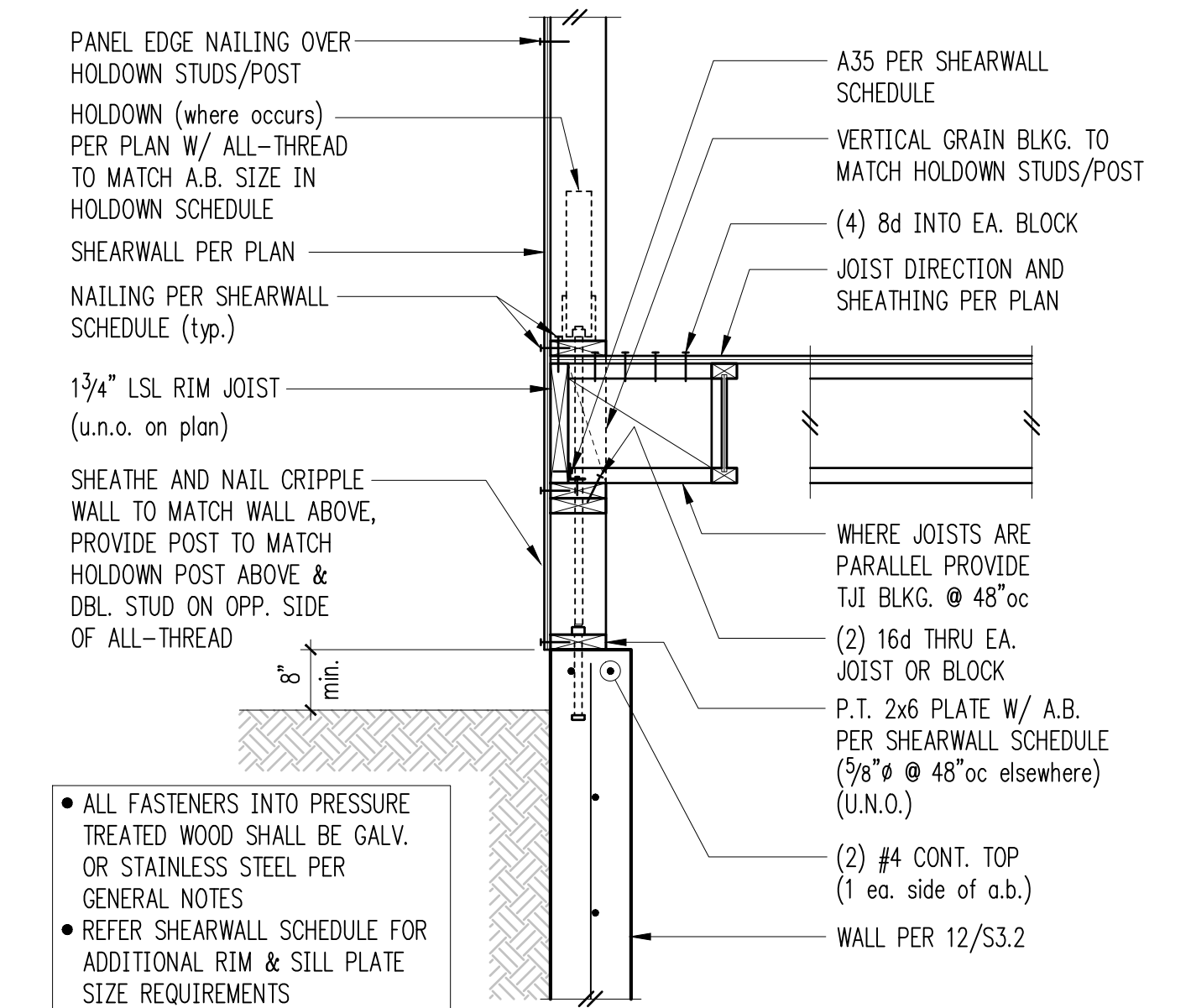


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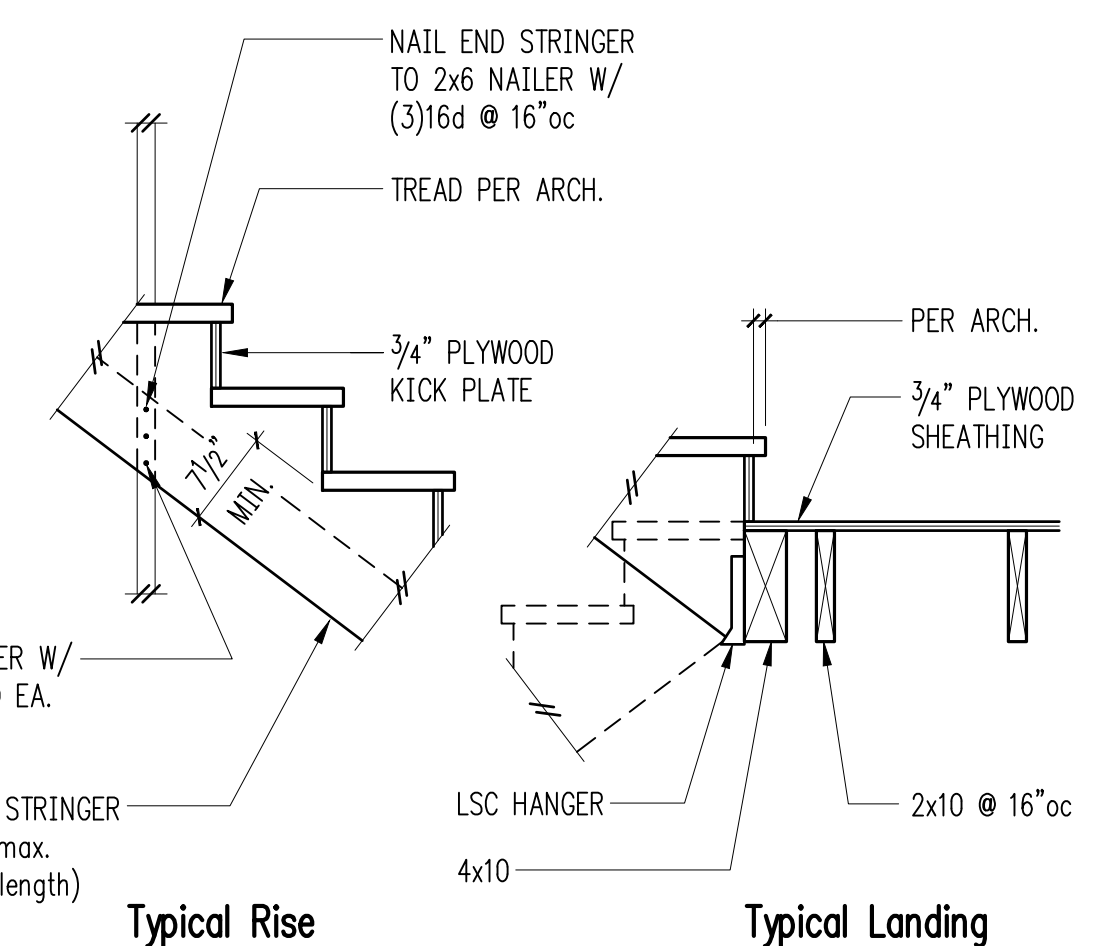
FOR CALLOUTS
IN COMMON
REFER 11/S3.3

7



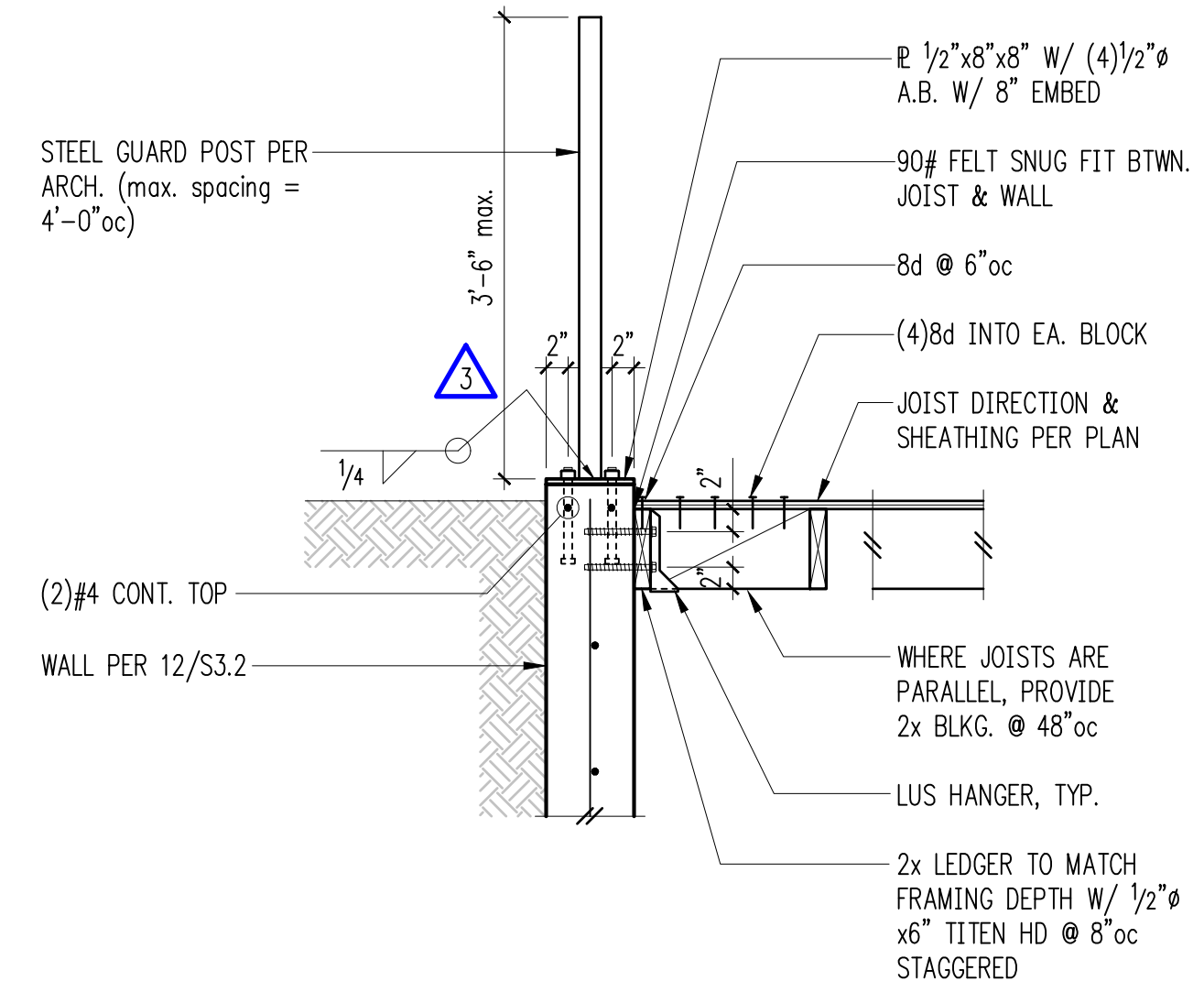
- ALL FASTENERS INTO PRESSURE TREATED WOOD SHALL BE GALV. OR STAINLESS STEEL PER GENERAL NOTES
- REFER SHEARWALL SCHEDULE FOR ADDITIONAL RIM & SILL PLATE SIZE REQUIREMENTS

Exterior Framing at Basement w/ Pony Wall 8

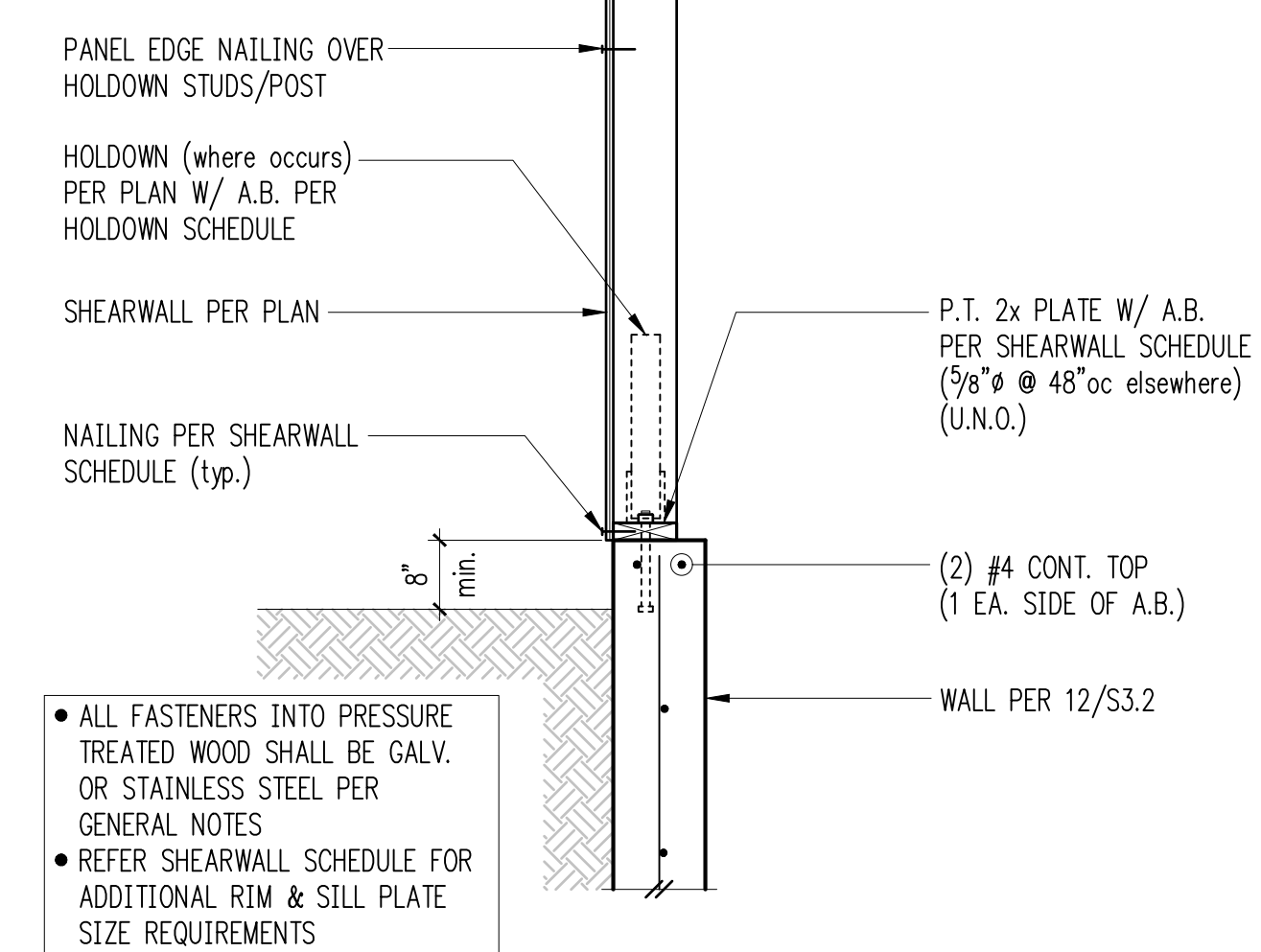


ALL TREAD AND RISER DIMENSIONS PER ARCH.

Typical Stair and Landing Detail 9

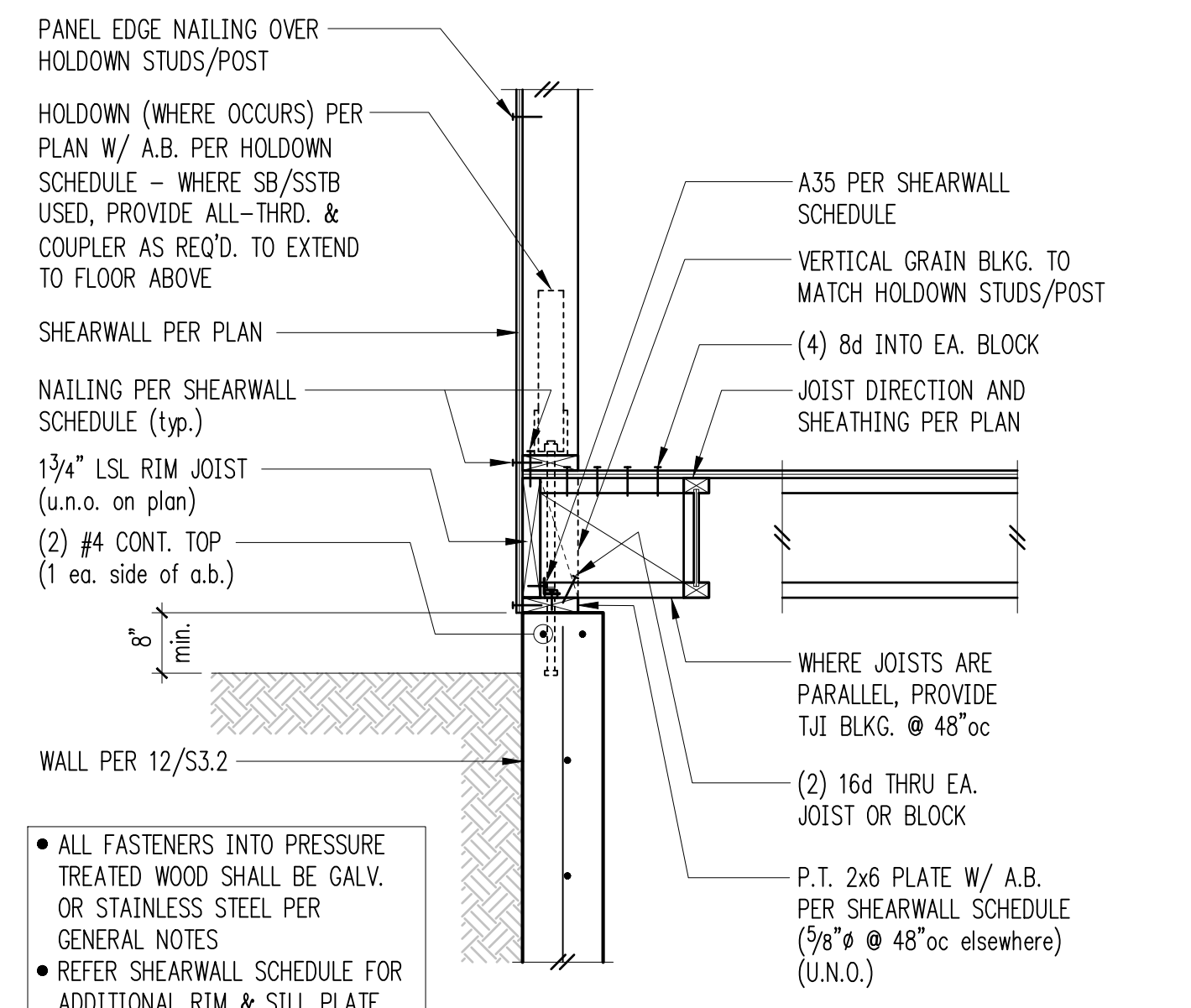


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- ALL FASTENERS INTO PRESSURE TREATED WOOD SHALL BE GALV. OR STAINLESS STEEL PER GENERAL NOTES
- REFER SHEARWALL SCHEDULE FOR ADDITIONAL RIM & SILL PLATE SIZE REQUIREMENTS

11



- ALL FASTENERS INTO PRESSURE TREATED WOOD SHALL BE GALV. OR STAINLESS STEEL PER GENERAL NOTES
- REFER SHEARWALL SCHEDULE FOR ADDITIONAL RIM & SILL PLATE SIZE REQUIREMENTS

Exterior Framing at Basement 12



DESIGN: HAA, BDM
DRAWN: NHD
CHECKED: BDM
APPROVED: DJS

REVISIONS:

1	Revision 1	Aug. 15, 2022
2	85% CD Set	Jan. 13, 2023
3	Permit Revisions	Jun. 30, 2023
4	CA Revisions	Nov. 3, 2023

PROJECT TITLE:

Clarkson Residence
8163 West Mercer Way
Mercer Island, WA 98040

ARCHITECT:
Brandt Design Group
66 Bell Street, Unit 1
Seattle, WA 98121
PH 206.239.0850

ISSUE:
65% CD Set

SHEET TITLE:
Foundation Details

SCALE: 3/4" = 1'-0" U.N.O.
DATE: June 22, 2022
PROJECT NO: 01519-2021-11
SHEET NO:

S3.3



DESIGN: HAA, BDM
DRAWN: NHD
CHECKED: BDM
APPROVED: DJS

REVISIONS:

1	Revision 1	Aug. 15, 2022
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DPD:

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8163 West Mercer Way
Mercer Island, WA 98040

ARCHITECT:
Brandt Design Group
66 Bell Street, Unit 1
Seattle, WA 98121
PH 206.239.0850

ISSUE:
65% CD Set

SHEET TITLE:
Typical Wood Framing Details

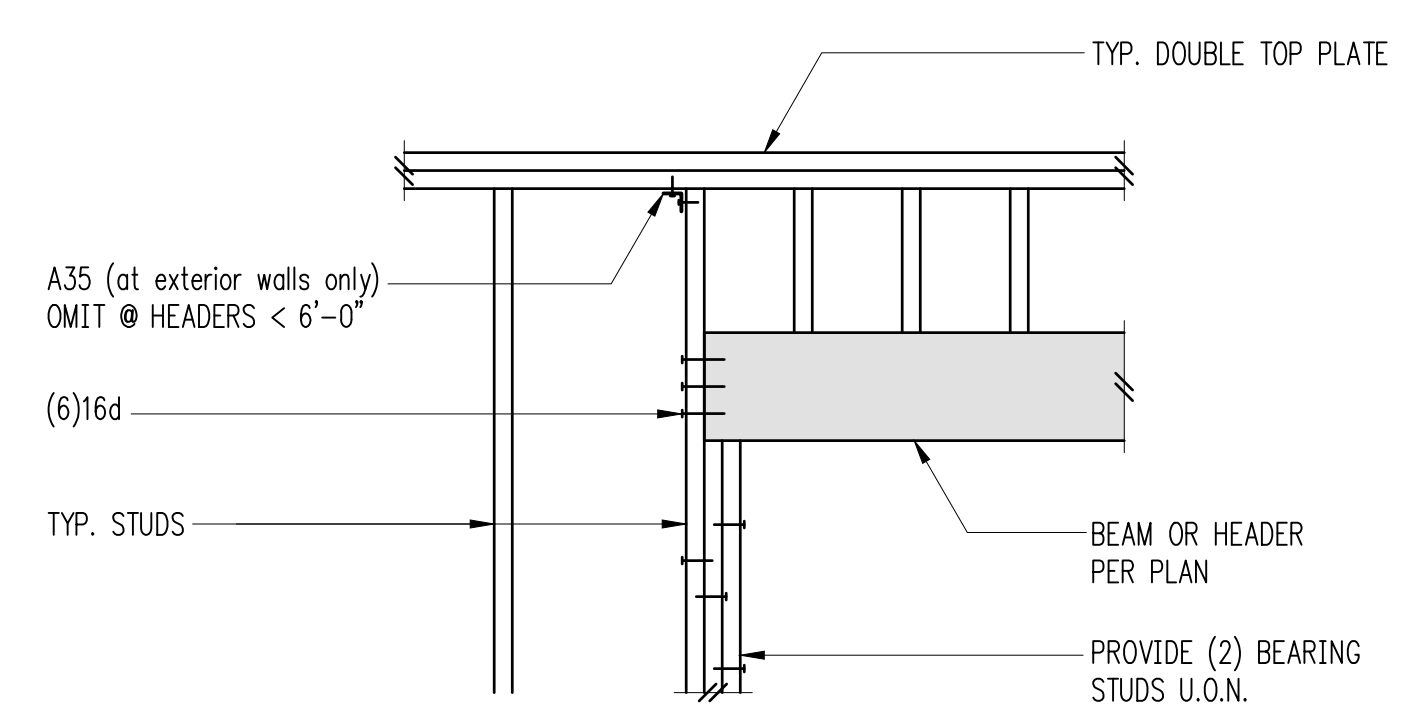
SCALE: 3/4" = 1'-0" U.N.O.
DATE: June 22, 2022
PROJECT NO: 01519-2021-11
SHEET NO:

	A	B	C
PLAN VIEW			
SECTION			
# OF WOOD BMS (LVL)	2-1 3/4"	3-1 3/4"	4-1 3/4"
SDW22 SCREW SIZE	0.220x3	0.220x5	0.220x6
# OF SDW22 SCREWS	2	2	2
SPACING OF SDW22 SCREWS	12"OC	12"OC	12"OC

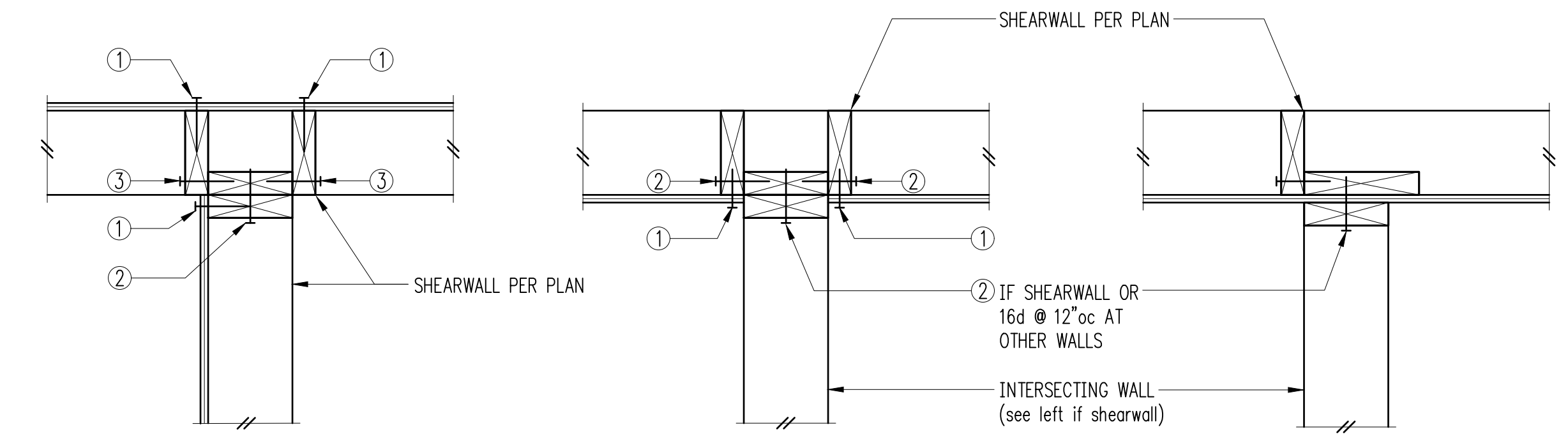
NOTES:
- MIN. SCREW END DISTANCE = 6"

NOTE: MAY USE SDS 1/4"
@ CONTRACTORS OPTION

Sistering Schedule for Multi Beams (SDWS) 1

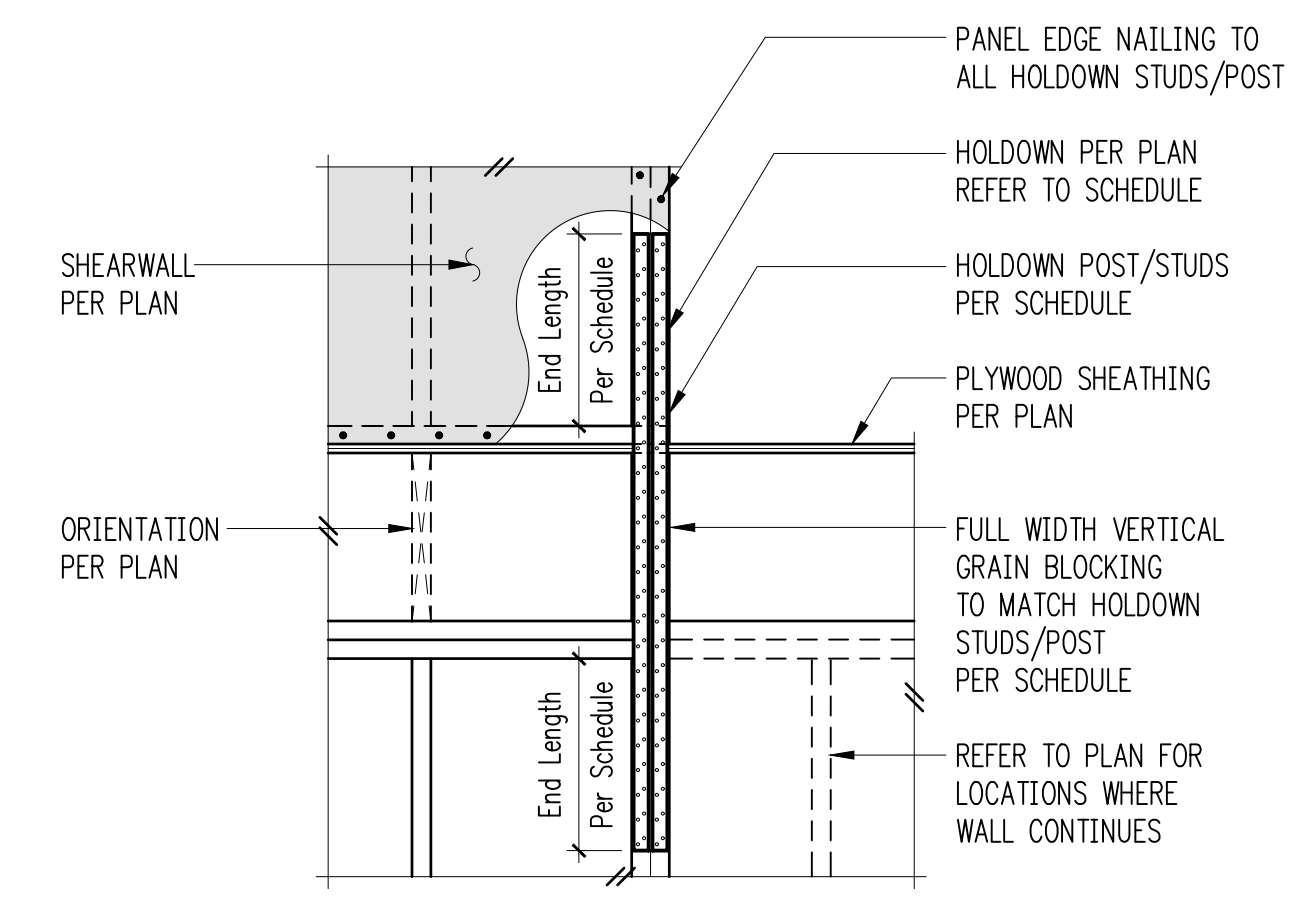


Typical Header Support w/2 Bearing Studs 2



- ① PLYWOOD PANEL EDGE NAILING PER SHEARWALL SCHEDULE
- ② BASE PLATE NAILING PER SHEARWALL SCHEDULE
- ③ 16d @ 8"oc

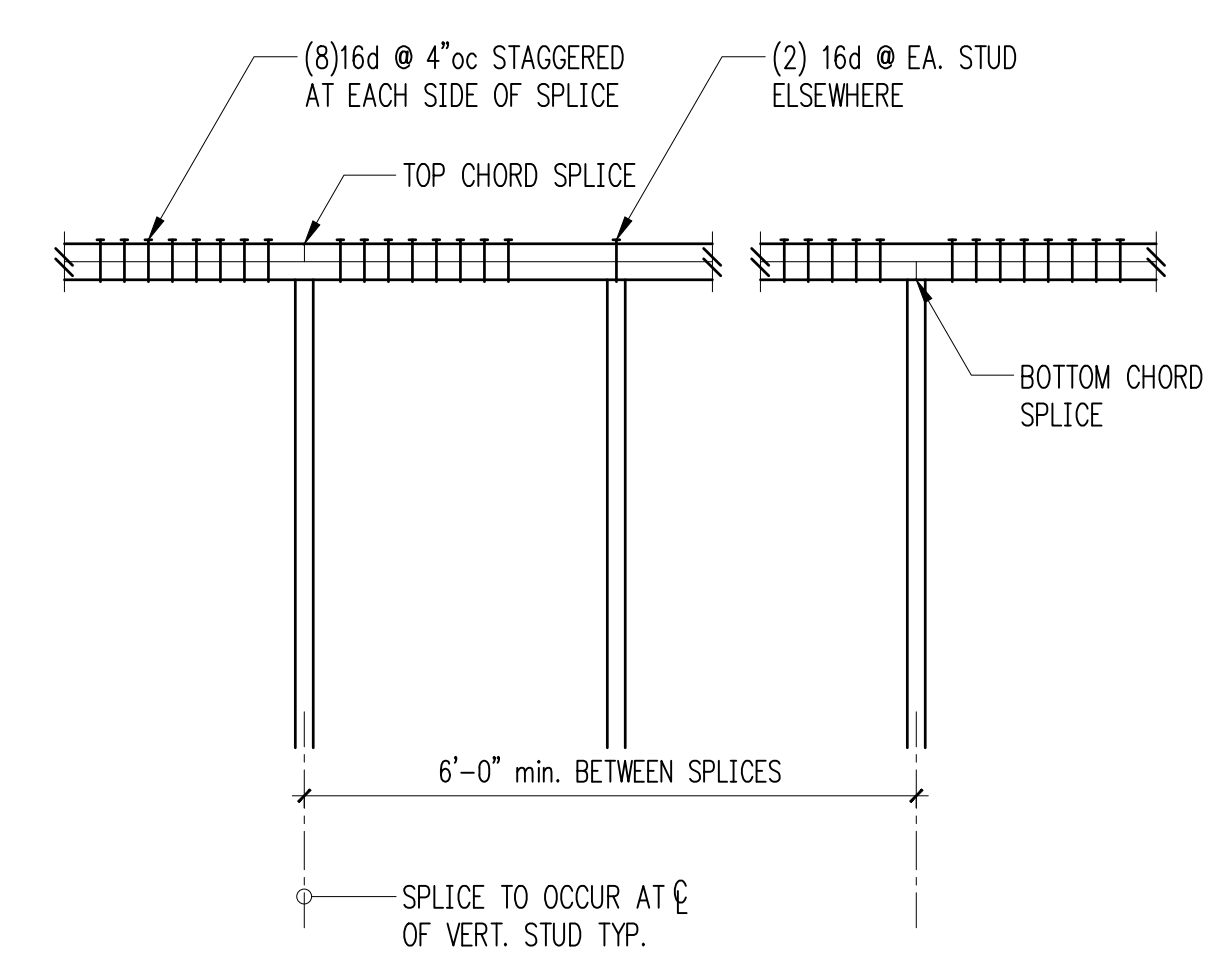
Typical Shearwall Intersections 4



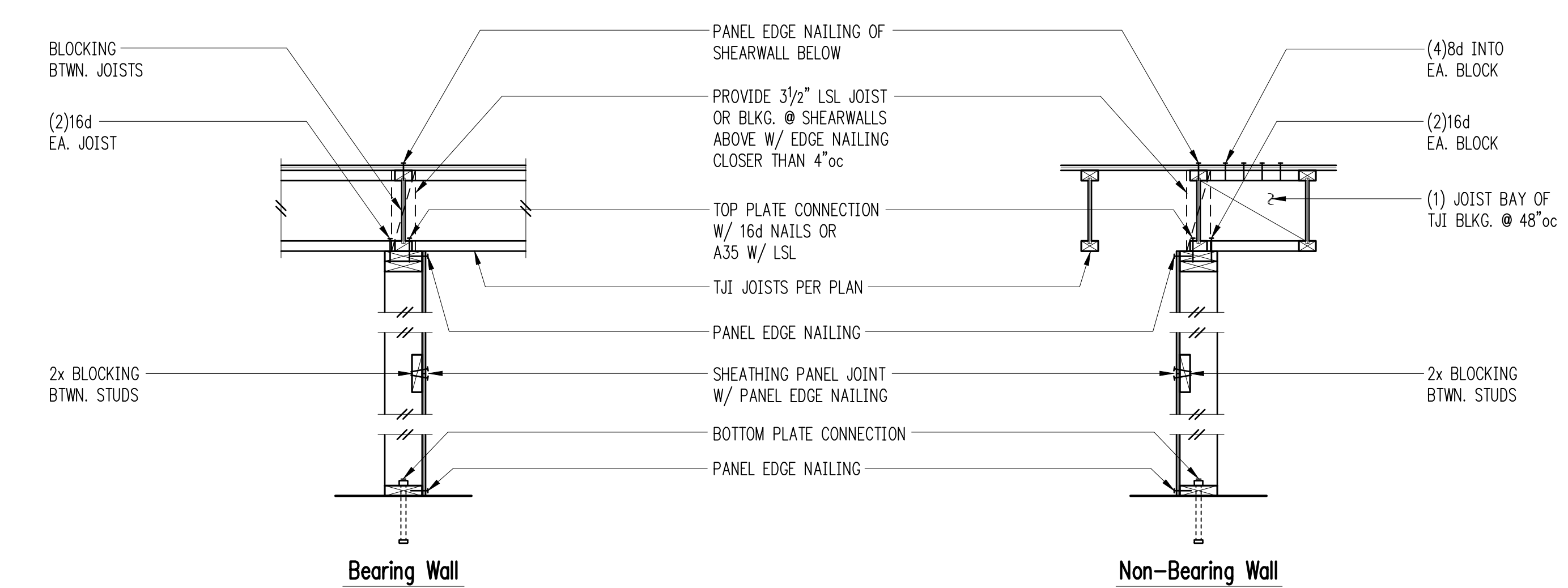
Holddown Strap Schedule

Plan Mark	End Length	#Nails Ea. End Length	Holddown Studs/Post		
			if 2x4	if 2x6	if 2x8
CS16	1'-2"	(13) 8d	(1) 2x4	(1) 2x6	(1) 2x8
CMST14	2'-6"	(33) 10d	4x6	4x6	4x8
CMST12	3'-3"	(43) 10d	4x8	6x6	6x8

Typical Holddown Schedule 5

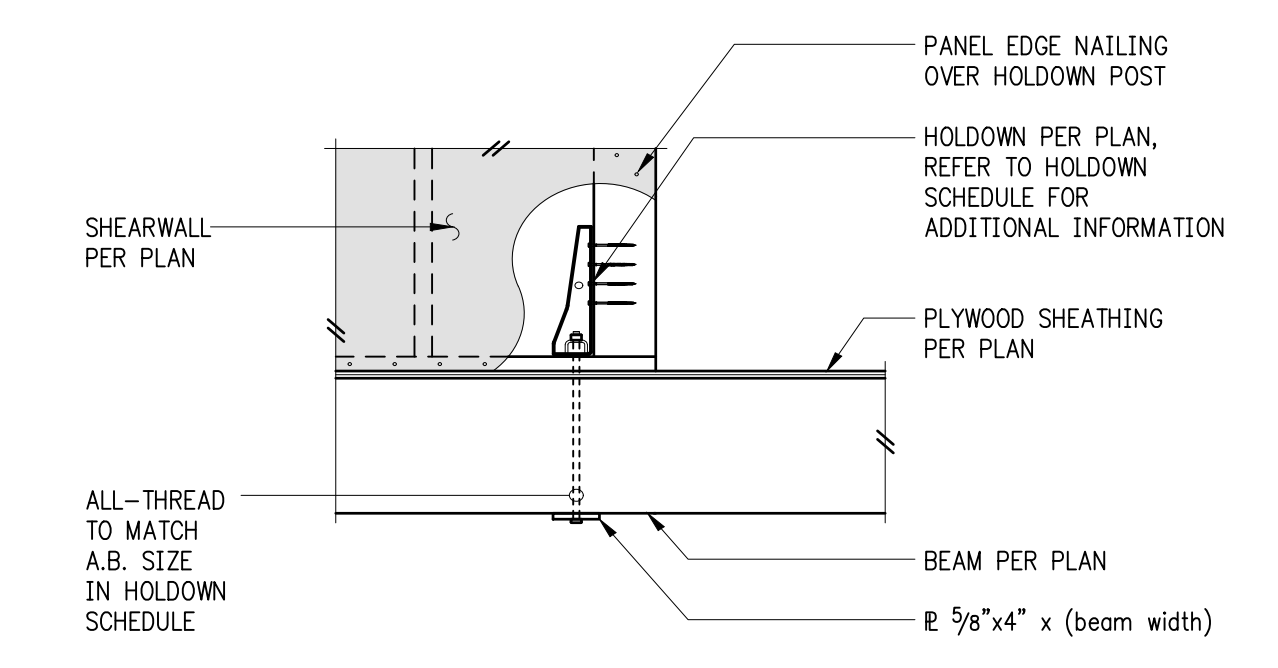


Typical Top Plate Splice 6

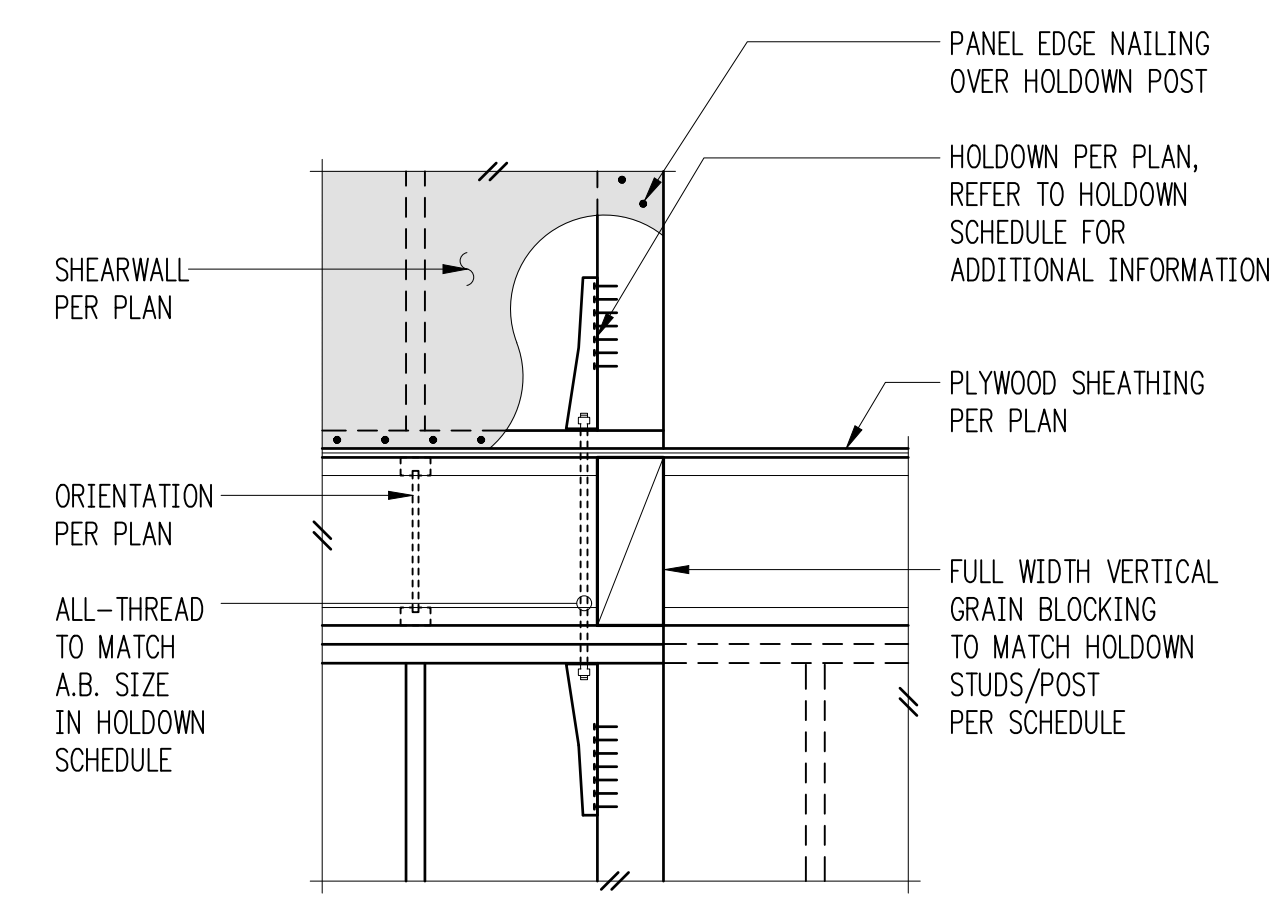


NOTE:
SEE SHEARWALL SCHEDULE FOR ALL NAILING AND CONNECTIONS, NOT OTHERWISE NOTED

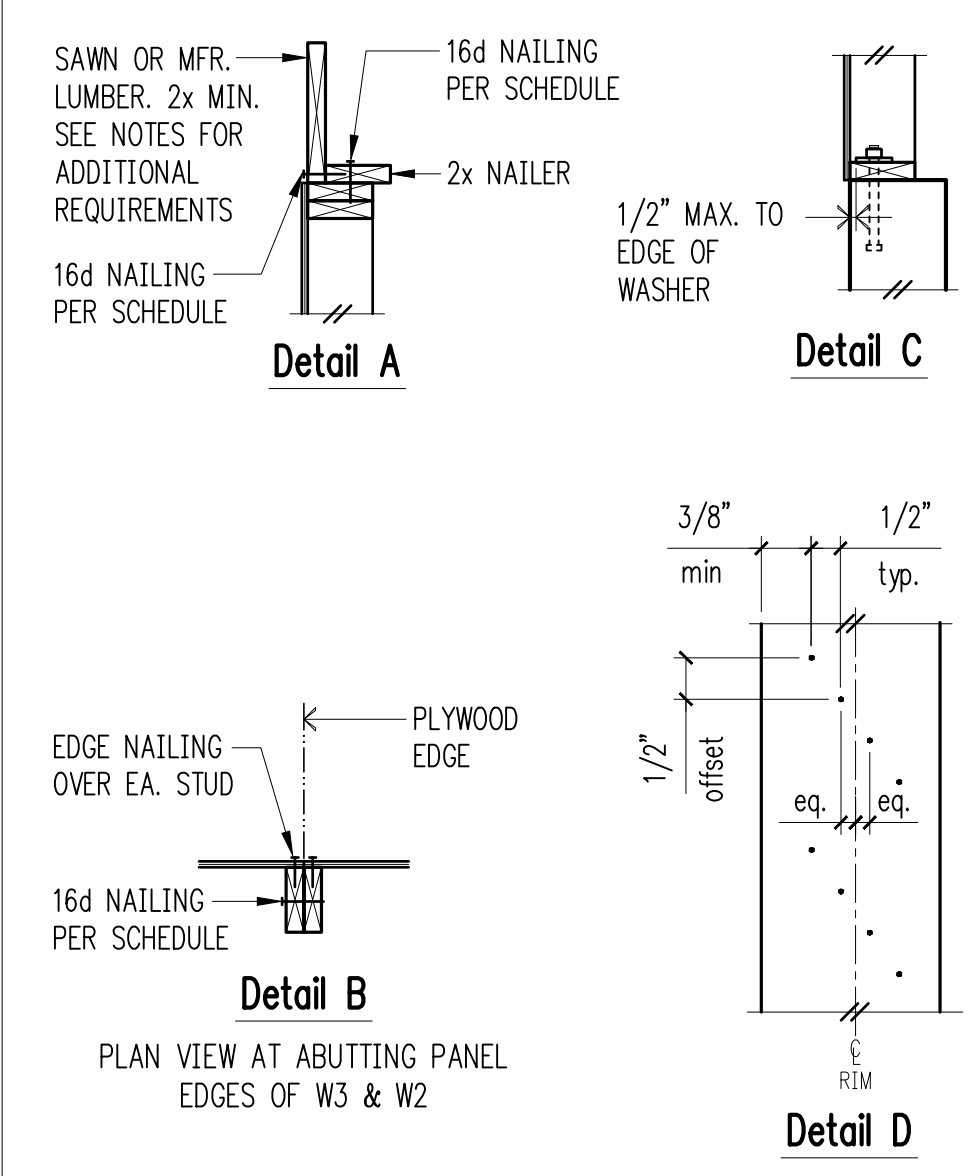
Typical Shearwall Construction 8



HDU at Floor Beam 9



Typical HDU Holdowns 10



Shearwall Schedule ①②③④⑤⑥⑦⑧

Mark	Sheathing	Panel Edge Nailing	Top Plate Connection		Base Plate Connection	
			if TJI	if Wood ④	at Wood ①②	at Concrete
W6	15/32" CDX PLYWOOD	8d @ 6"oc	16d @ 6"oc	A35 @ 24"oc ⑩	16d @ 6"oc	5/8" @ A.B. @ 48"oc
W4	15/32" CDX PLYWOOD	8d @ 4"oc	16d @ 4"oc	A35 @ 16"oc ⑩	(2)rows 16d @ 6"oc	5/8" @ A.B. @ 32"oc
W3 ④	15/32" CDX PLYWOOD	8d @ 3"oc	(2)rows 16d @ 4"oc	A35 @ 12"oc ⑩	(2)rows 16d @ 6"oc	5/8" @ A.B. @ 24"oc
W2 ④	15/32" CDX PLYWOOD	8d @ 2"oc	(2)rows 16d @ 4"oc	A35 @ 9"oc ⑩	(2)rows 16d @ 4"oc ⑬	5/8" @ A.B. @ 16"oc
2W3 ⑤	15/32" CDX PLYWD. EA. SIDE	8d @ 3"oc EA. SIDE	n/a	A35 @ 6"oc	(3)rows 16d @ 4"oc ⑬	5/8" @ A.B. @ 16"oc
2W2 ⑤	15/32" CDX PLYWD. EA. SIDE	8d @ 2"oc EA. SIDE	n/a	HGA10KT @ 8"oc	(3)rows 16d @ 4"oc ⑬	5/8" @ A.B. @ 12"oc
2W2-10 ⑤⑬	15/32" CDX PLYWD. EA. SIDE	10d @ 2"oc EA. SIDE	n/a	HGA10KT @ 6"oc	(4)rows 16d @ 4"oc ⑬	5/8" @ A.B. @ 12"oc

- ① BLOCK PANEL EDGES WITH 2x MIN. LAID FLAT AND NAIL PANELS TO INTERMEDIATE SUPPORTS WITH 8d @ 12"oc.
- ② 8d NAILS SHALL BE 0.131" x 2 1/2" (common) - 16d NAILS SHALL BE 0.135" x 3 1/2" (box) - 10d NAILS SHALL BE 0.148" x 3" (common).
- ③ EMBED ANCHOR BOLTS AT LEAST 7". EXPANSION BOLTS MAY BE SUBSTITUTED FOR ANCHOR BOLTS WITH 4" EMBEDMENT. TITEN HD SCREW ANCHORS MAY BE SUBSTITUTED FOR ANCHOR BOLTS W/ 4" EMBEDMENT. ALL BOLTS SHALL HAVE 3" x 3" x 1/4" MIN. PLATE WASHERS. PLATE WASHERS SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF THE BOTTOM PLATE ON THE SIDE WITH SHEATHING. SEE DETAIL C.
- ④ 3x STUDS OR DOUBLE STUDS NAILED TOGETHER W/ BASE PLATE NAILING ARE REQUIRED AT ABUTTING PANEL EDGES OF W3 AND W2. SEE DETAIL B. WHERE 3x STUDS ARE USED FOR W2, STAGGER NAILS AT ADJOINING PANEL EDGES.
- ⑤ 3x FOUNDATION SILL PLATES ARE REQUIRED FOR 2W3 AND 2W2. 3x STUDS ARE REQUIRED AT ABUTTING PANEL EDGES AND PANEL JOINTS SHALL BE OFFSET EACH SIDE OF WALL. STAGGER NAILS AT ADJOINING PANEL EDGES. 3x STUD, MIN., REQUIRED AT END OF SHEARWALL.
- ⑥ TWO STUDS MINIMUM ARE REQUIRED AT EACH END OF ALL SINGLE-SIDED SHEARWALLS. ALL END STUDS SHALL RECEIVE PANEL EDGE NAILING. SEE PLANS AND HOLDOWN SCHEDULE FOR ALTERNATE REQUIREMENTS.
- ⑦ ALL EXTERIOR WALLS SHALL BE W6, UNLESS NOTED OTHERWISE.
- ⑧ 7/16" O.S.B. MAY BE SUBSTITUTED FOR 15/32" CDX, EXCEPT AT 10d PANEL EDGE NAILING.
- ⑨ LTP4s (HORIZONTAL ORIENTATION) W/ 8d COMMON MAY BE SUBSTITUTED FOR A35s AT CONTRACTORS OPTION.
- ⑩ A 2x NAILER ATTACHED W/ BASE PLATE NAILING PER DETAIL A MAY BE SUBSTITUTED FOR A35s AT CONTRACTORS OPTION.
- ⑪ AT MULTI-ROW NAILING, MINIMUM OFFSET BETWEEN ROWS AND ROW SPACING 1/2", SEE DETAIL D.
- ⑫ LVL RIMS PERMITTED AT SINGLE SIDED SHEAR WALLS ONLY.
- ⑬ PROVIDE (3) ROWS 16d @ 6"oc AT LVL RIMS.
- ⑭ MINIMUM RIM OR JOIST 3/2" WIDE BELOW SHEARWALL.
- ⑮ STUDS AND PLATES SHALL BE DOUGLAS FIR-LARCH NO. 2 AT 2W2-10 SHEARWALL.

Shearwall Schedule 12

REVISIONS:

1	Revision 1	Aug. 15, 2022
2	85% CD Set	Jan. 13, 2023
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DPD:

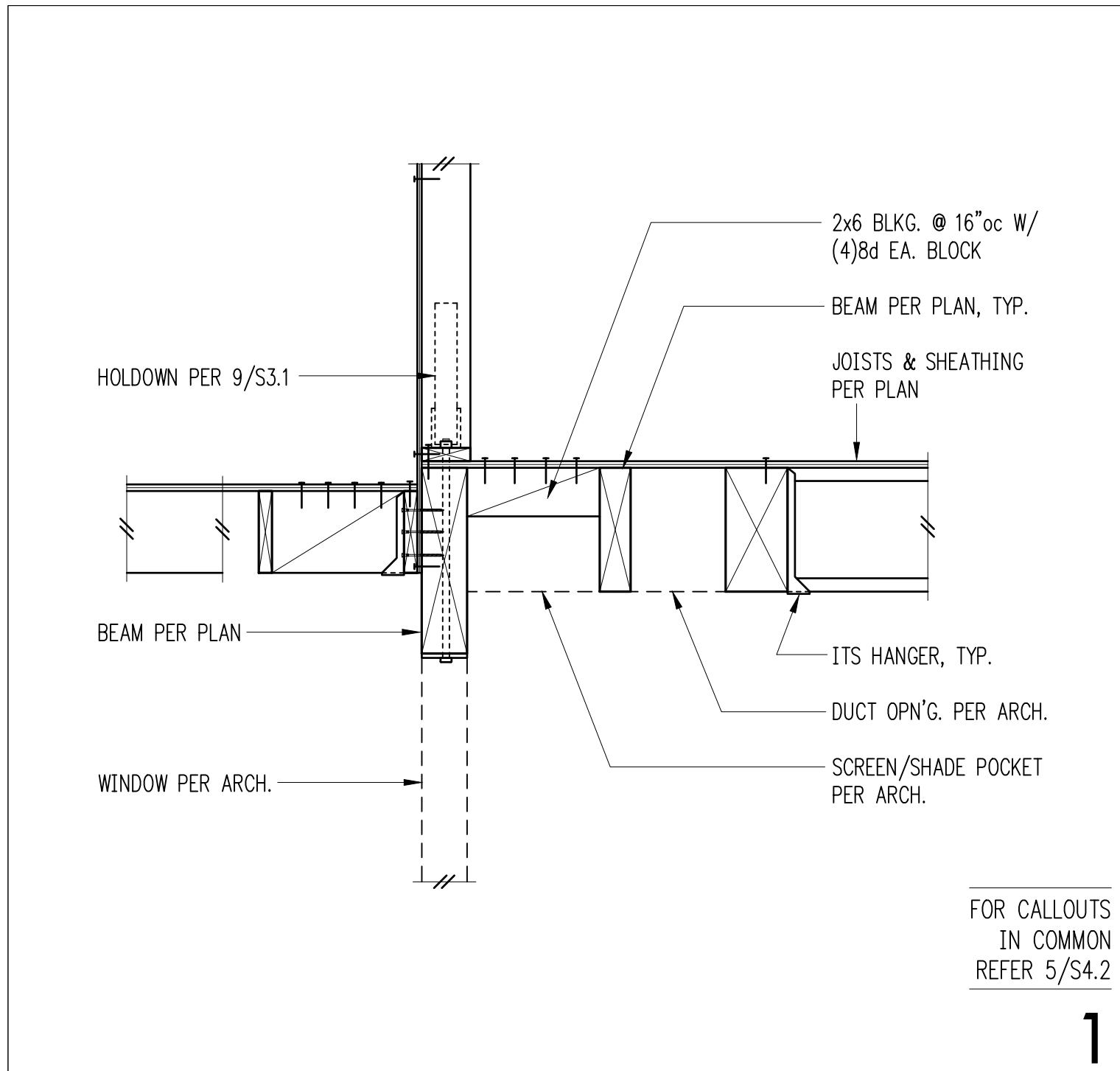
PROJECT TITLE:
Clarkson Residence
 8163 West Mercer Way
 Mercer Island, WA 98040

ARCHITECT:
Brandt Design Group
 66 Bell Street, Unit 1
 Seattle, WA 98121
 PH 206.239.0850

ISSUE:
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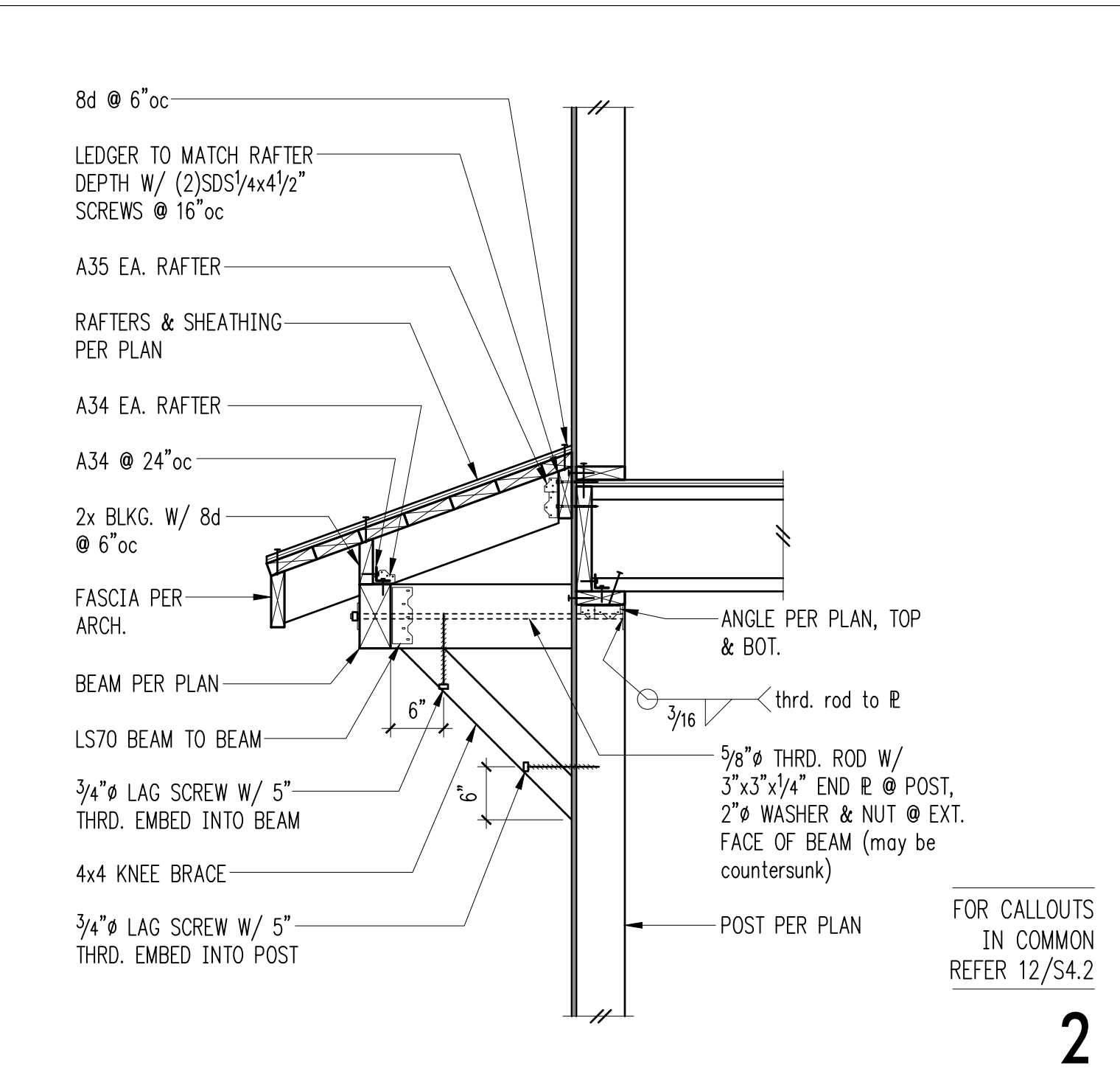
SHEET TITLE:
Wood Framing Details

SCALE: 3/4" = 1'-0" U.N.O.
 DATE: June 22, 2022
 PROJECT NO: 01519-2021-11
 SHEET NO:



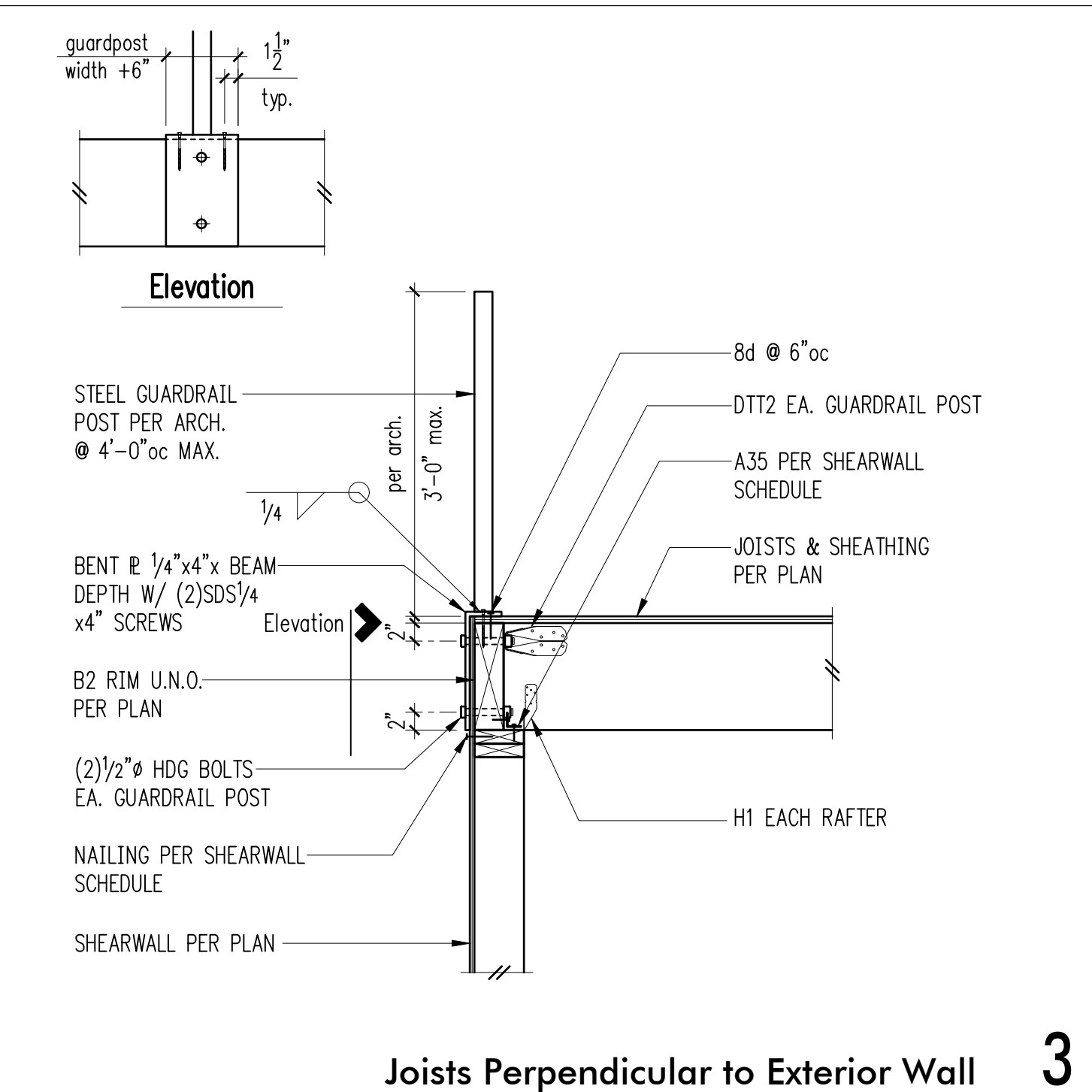
FOR CALLOUTS IN COMMON REFER 5/S4.2

1

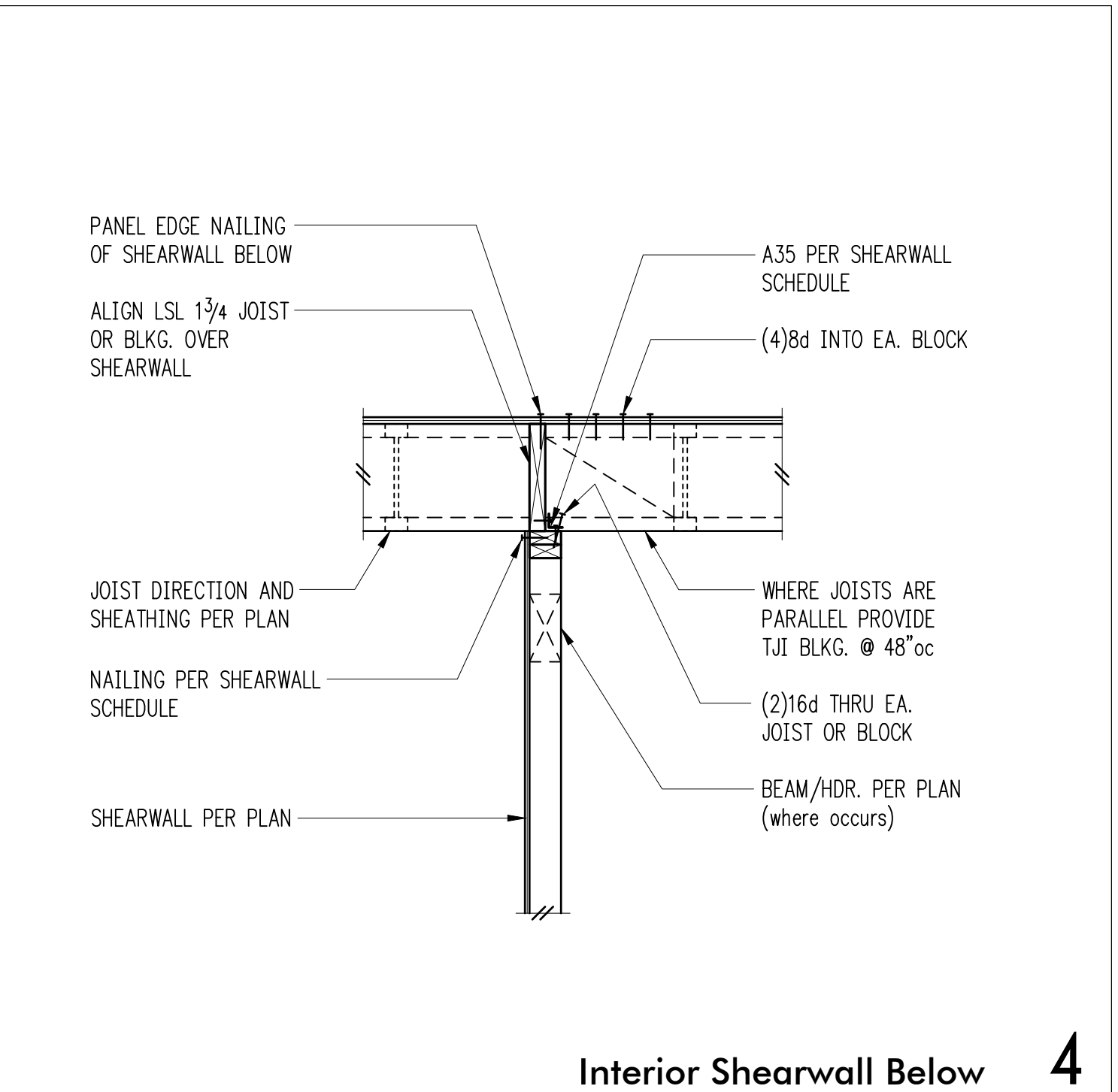


FOR CALLOUTS IN COMMON REFER 12/S4.2

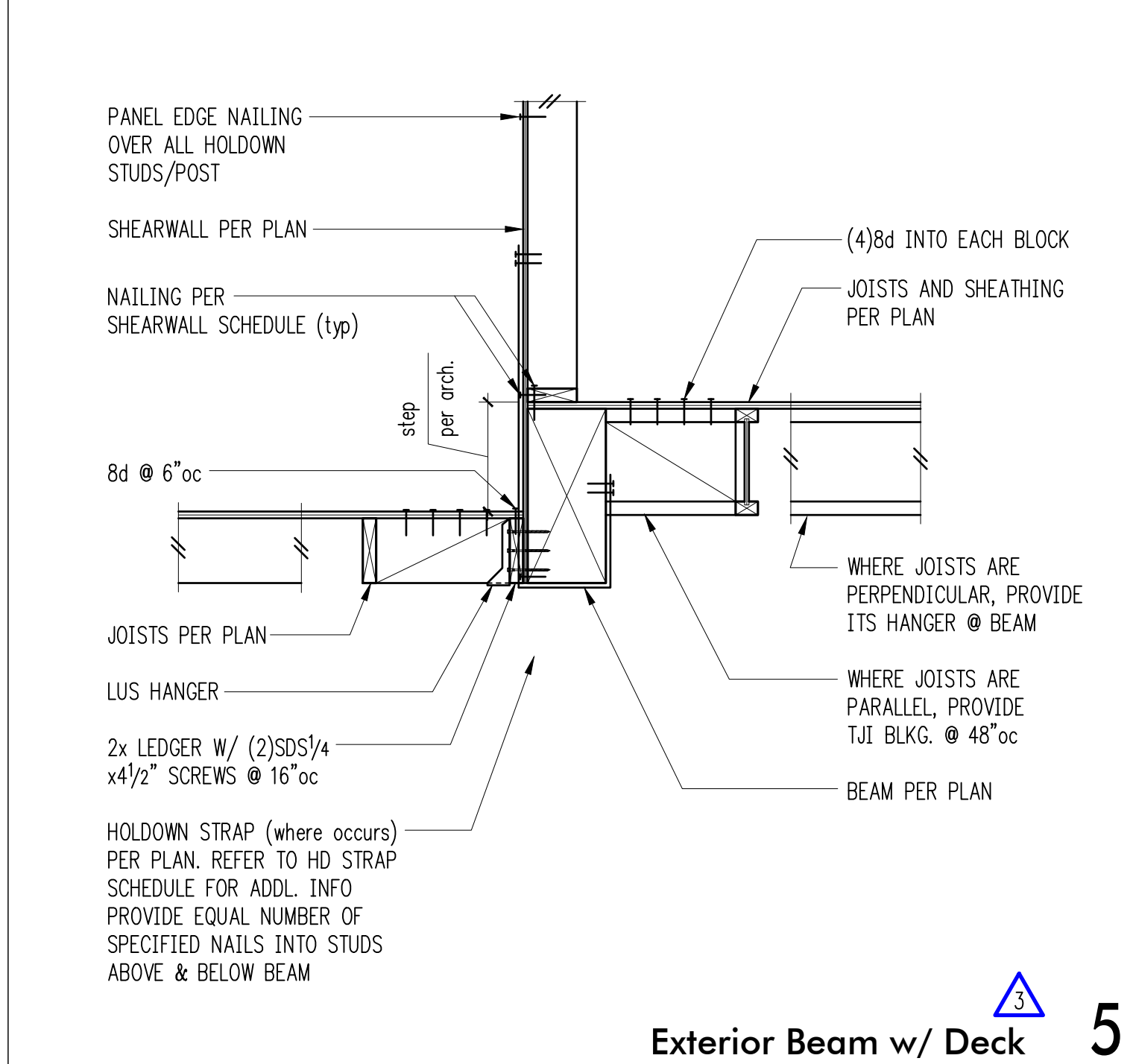
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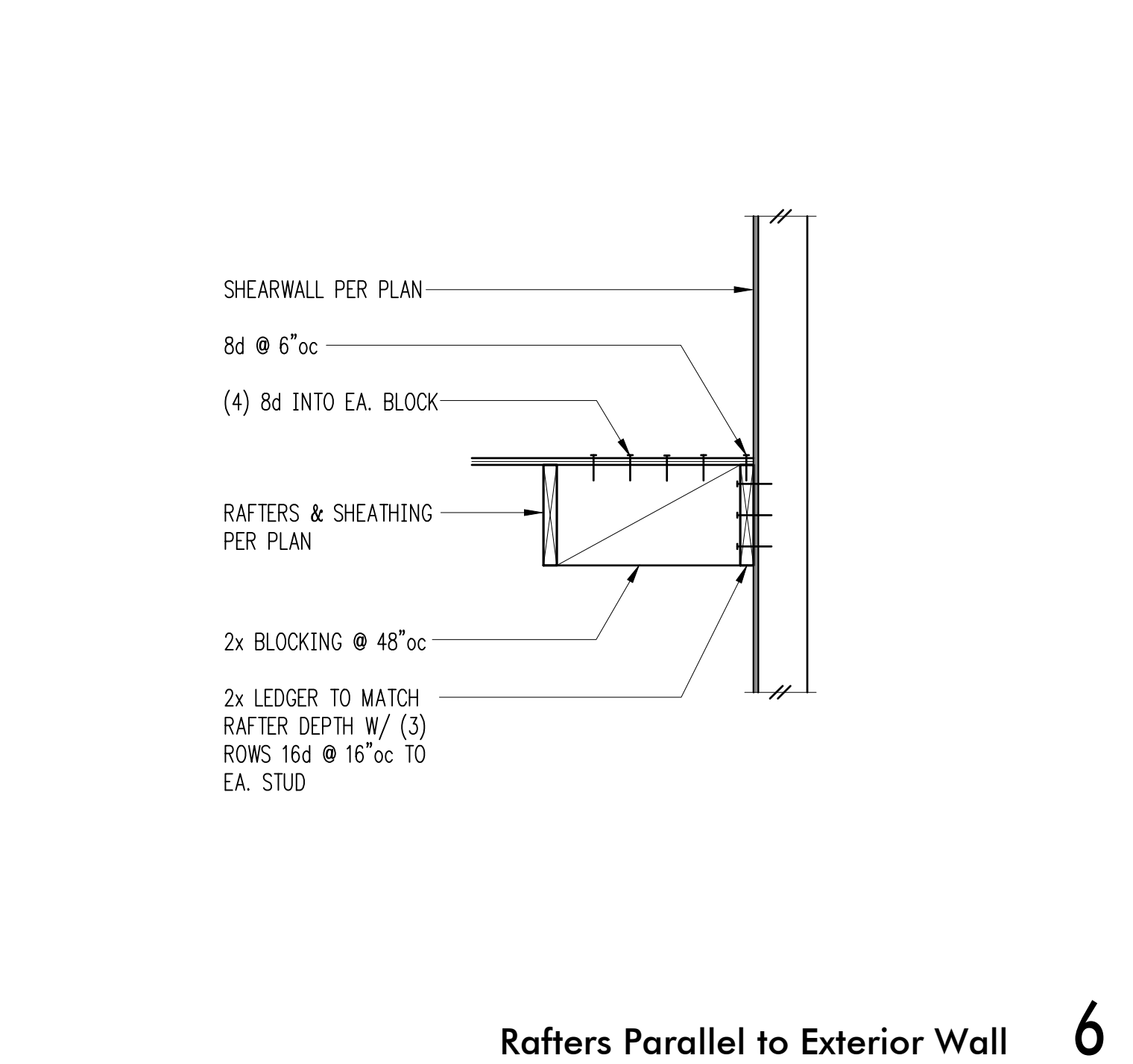
Joists Perpendicular to Exterior Wall 3



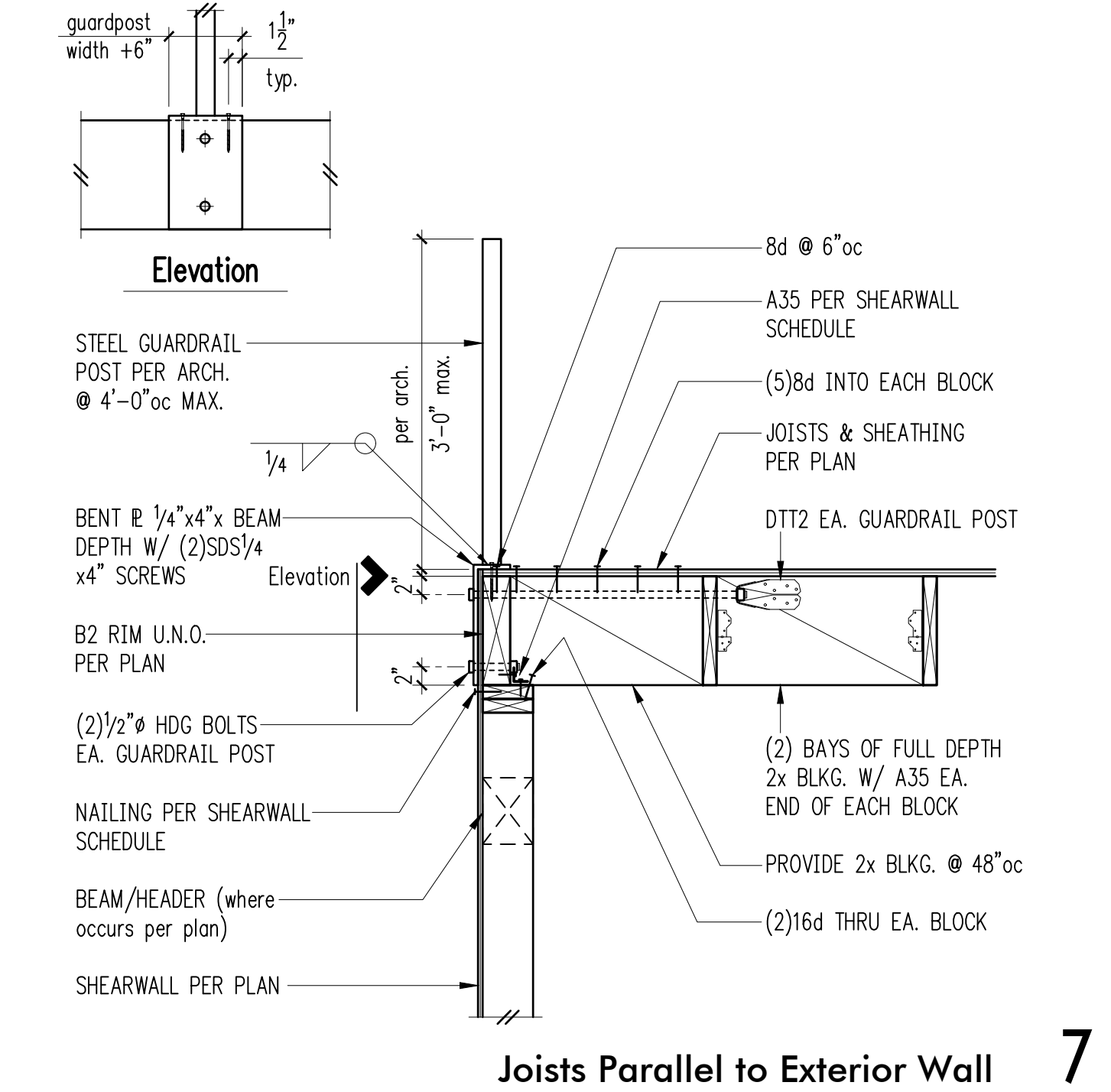
Interior Shearwall Below 4



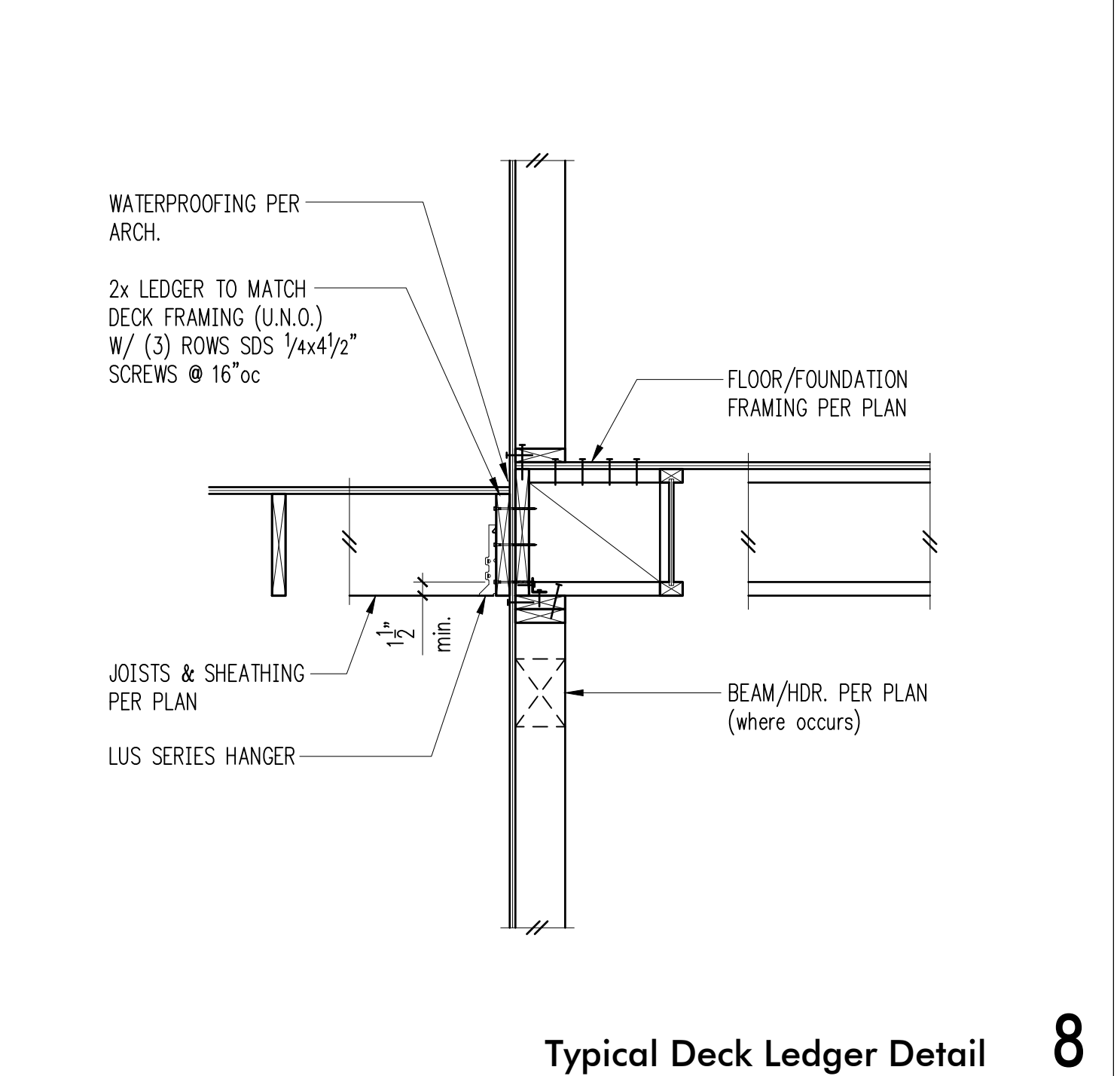
Exterior Beam w/ Deck 5



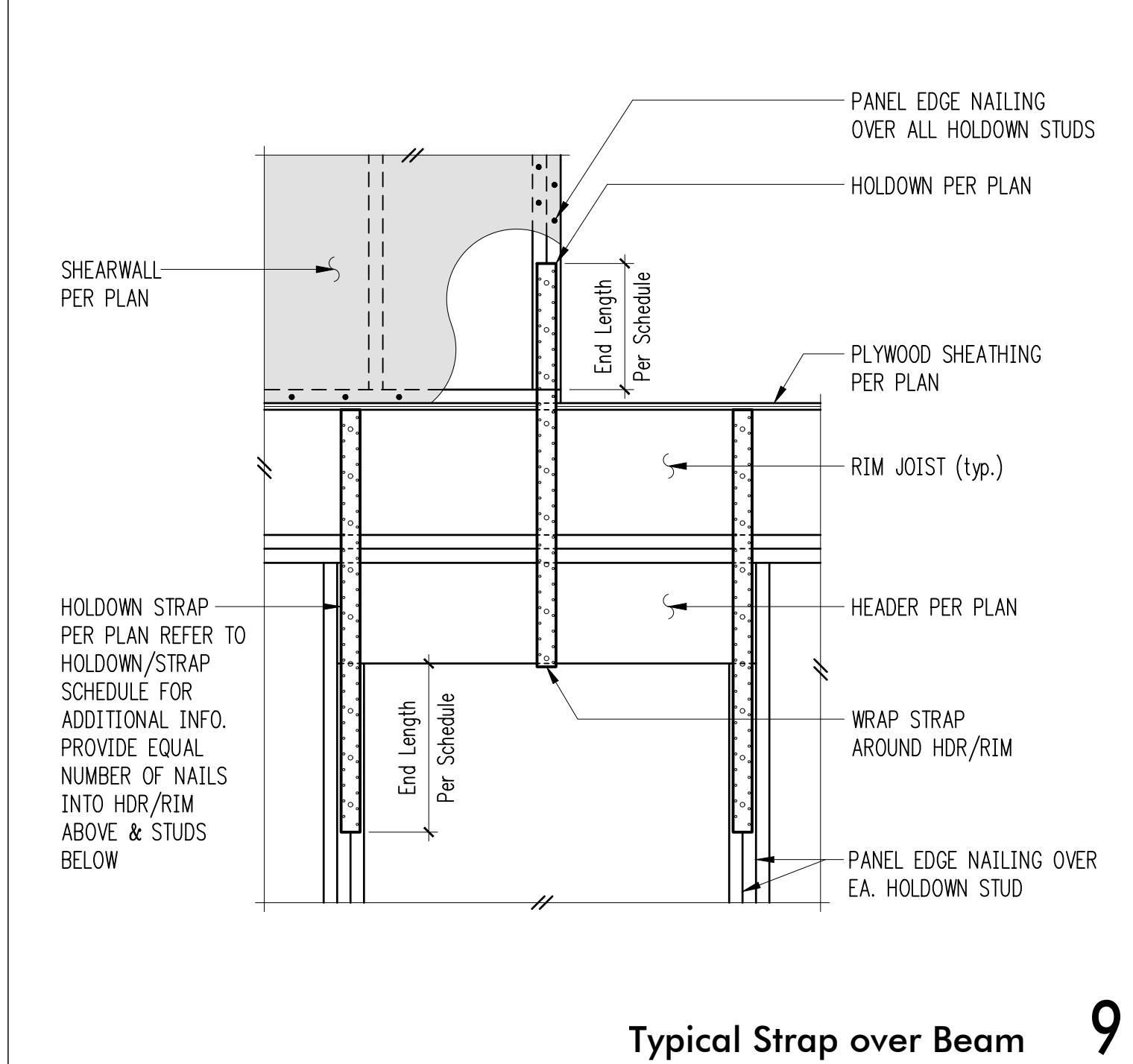
Rafters Parallel to Exterior Wall 6



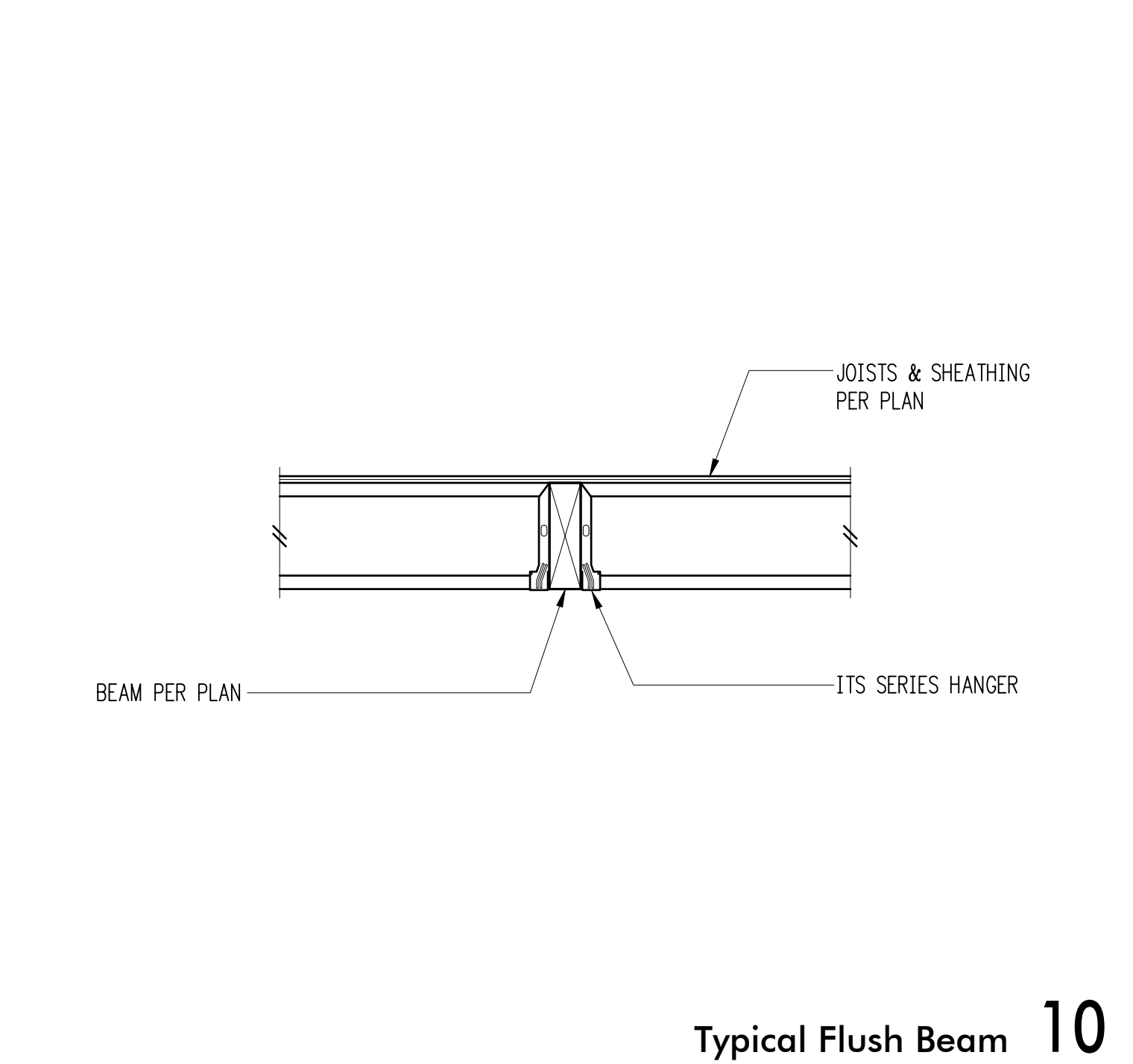
Joists Parallel to Exterior Wall 7



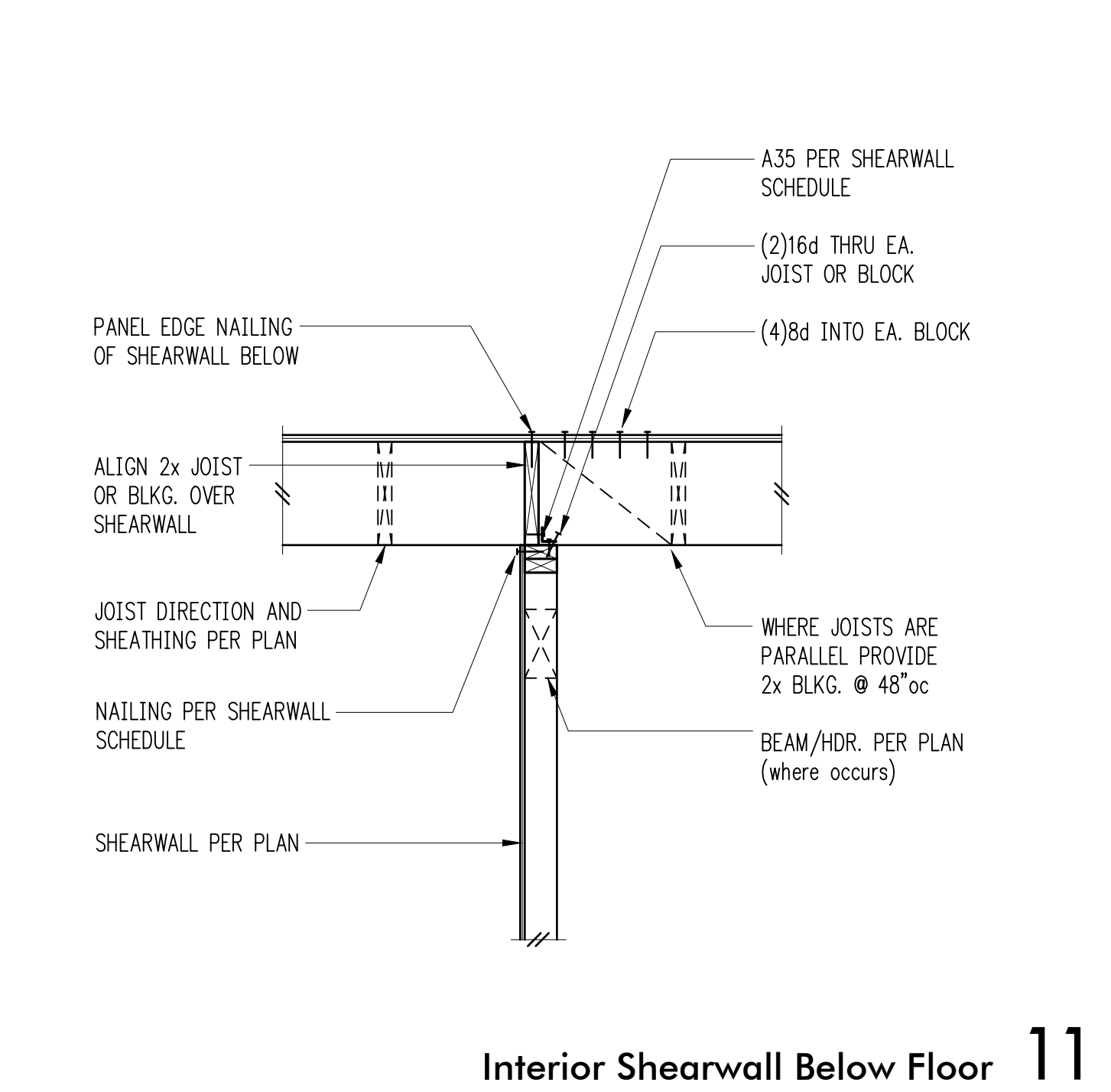
Typical Deck Ledger Detail 8



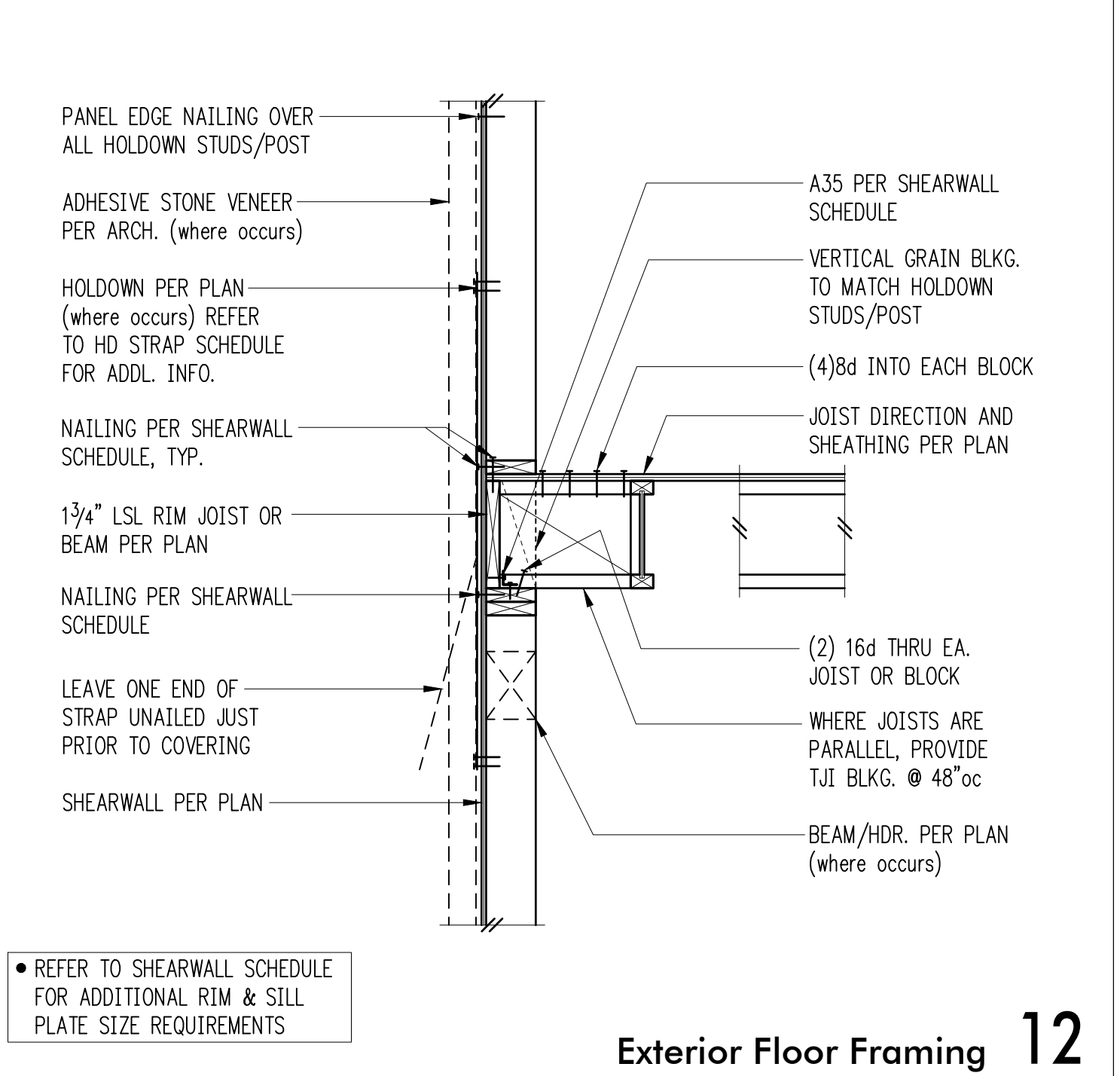
Typical Strap over Beam 9



Typical Flush Beam 10

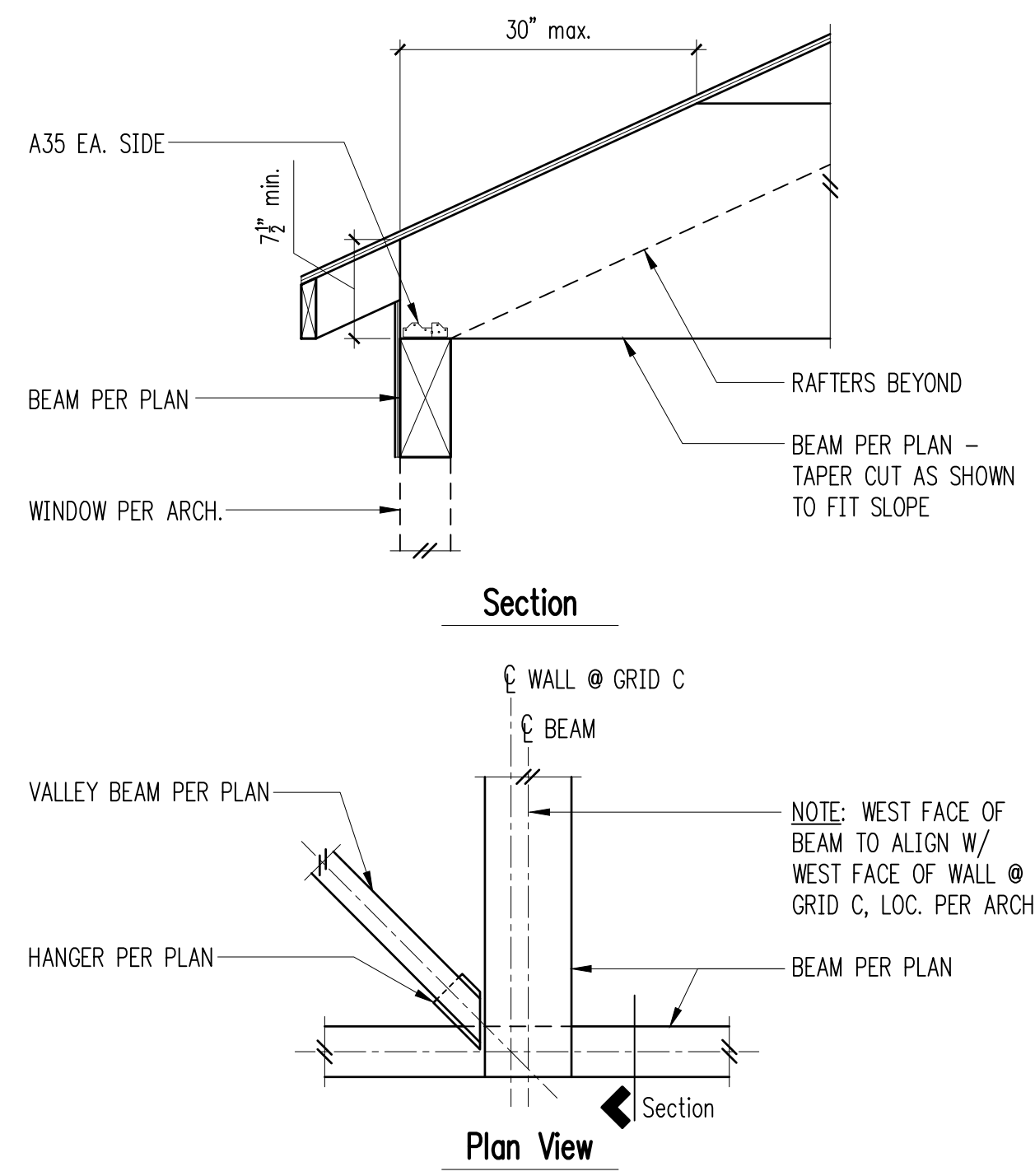


Interior Shearwall Below Floor 11

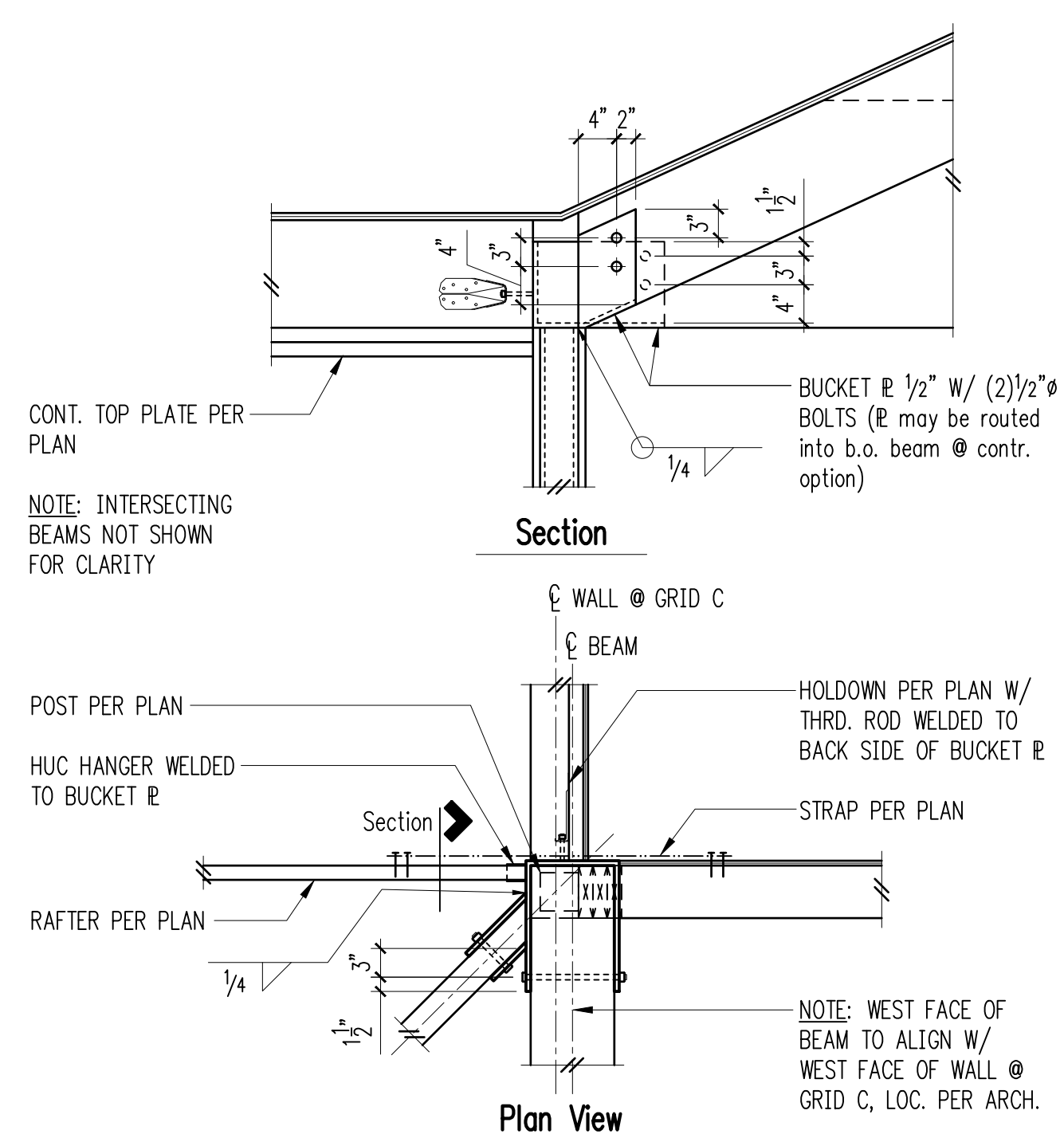


Exterior Floor Framing 12

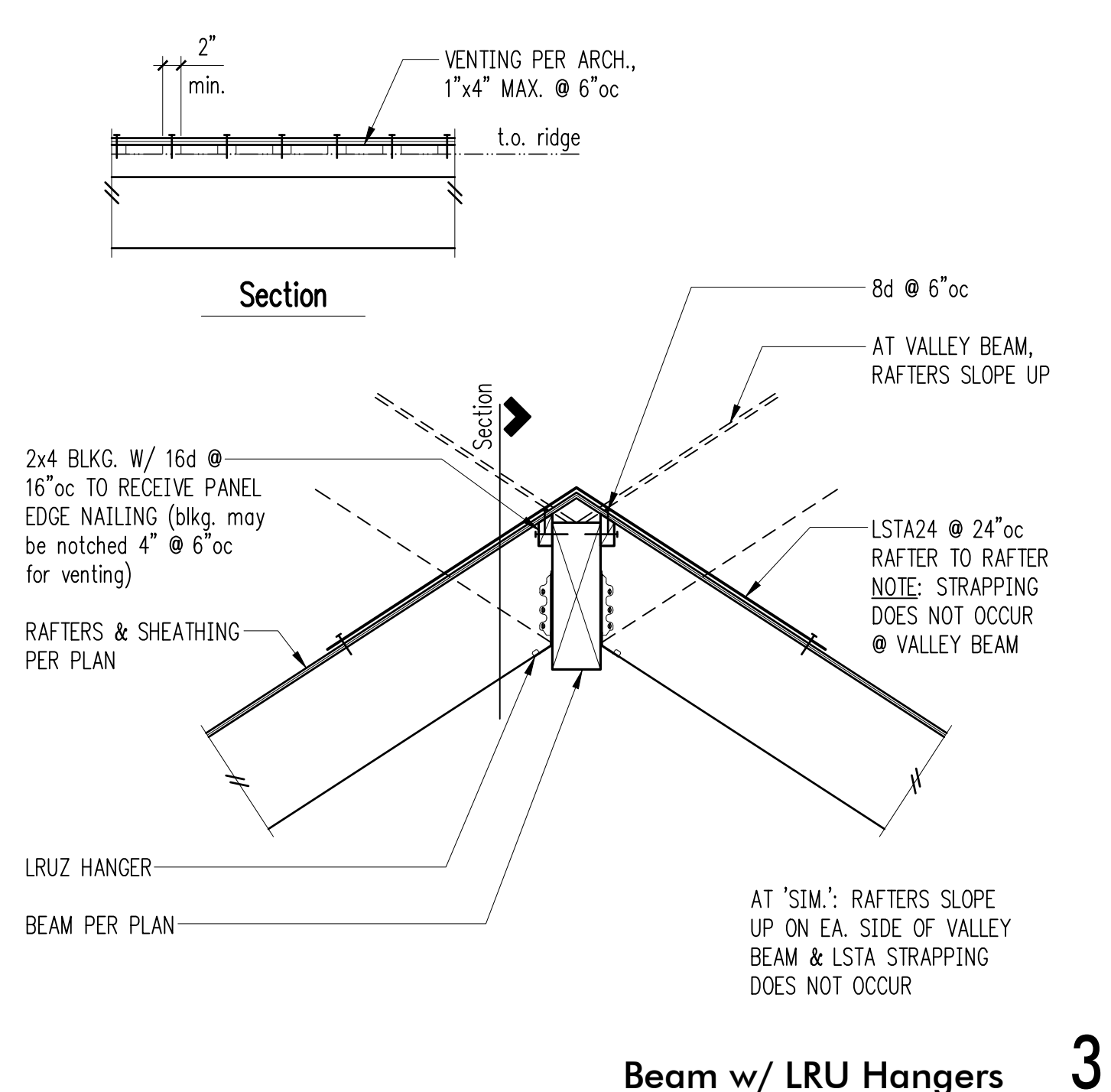
REFER TO SHEARWALL SCHEDULE FOR ADDITIONAL RIM & STILL PLATE SIZE REQUIREMENTS



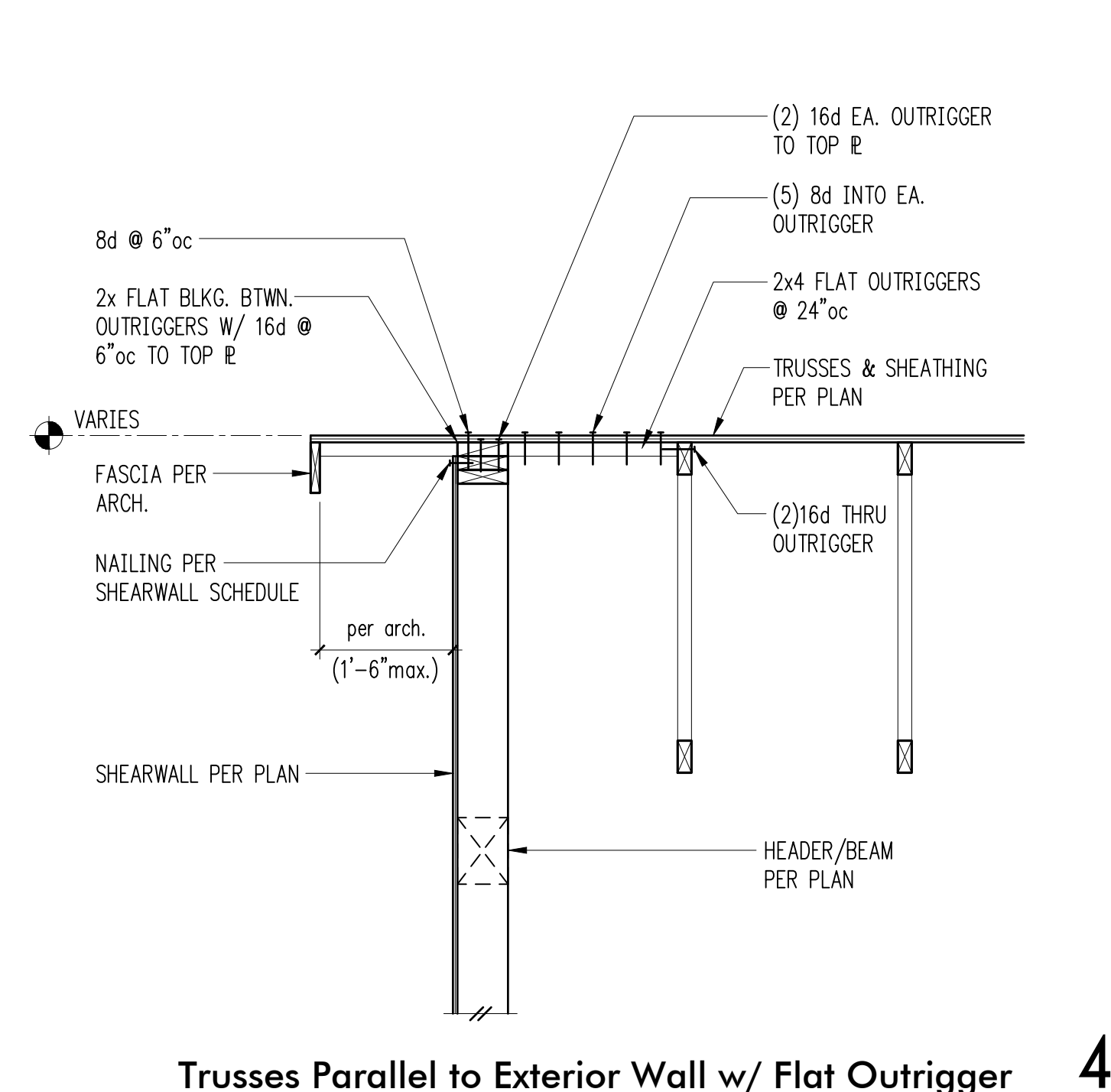
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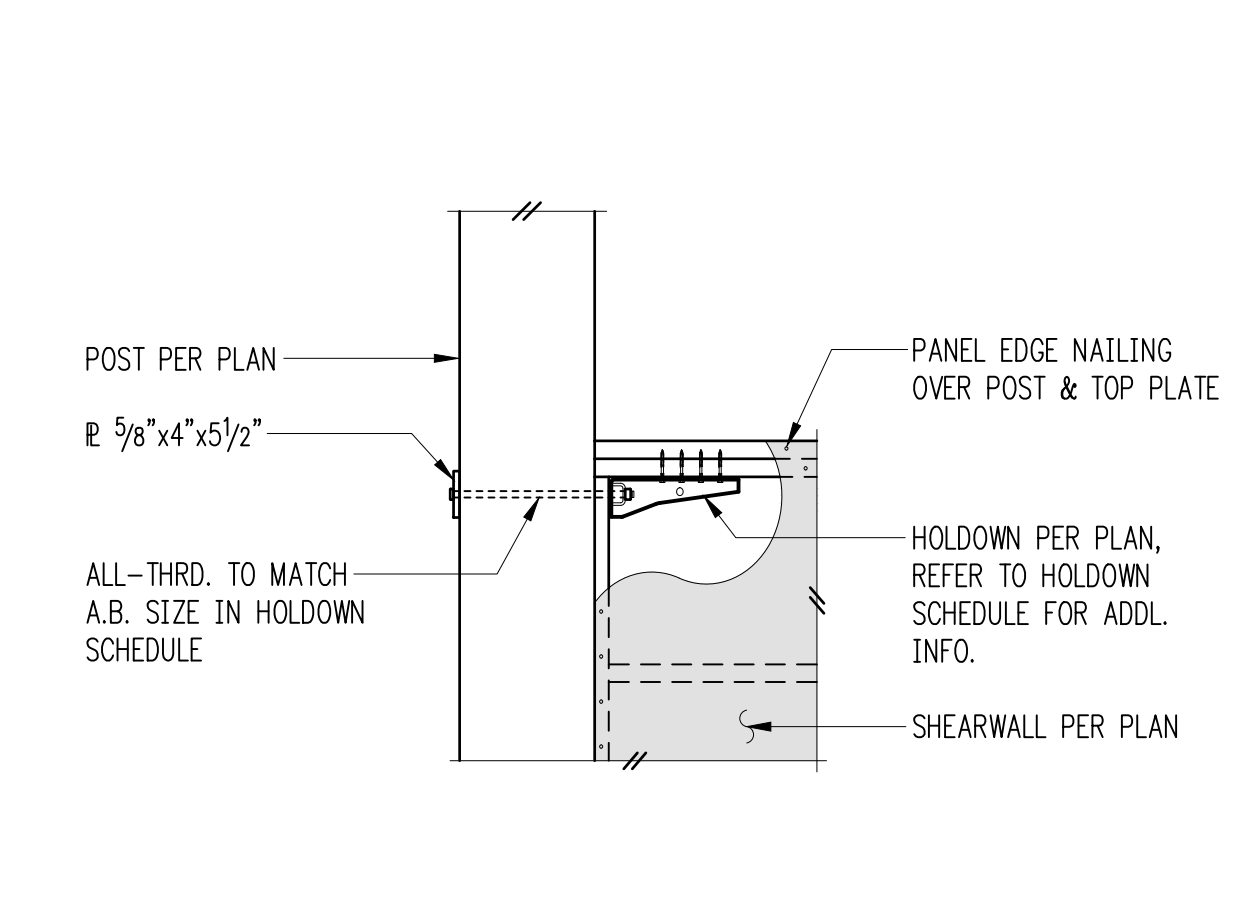
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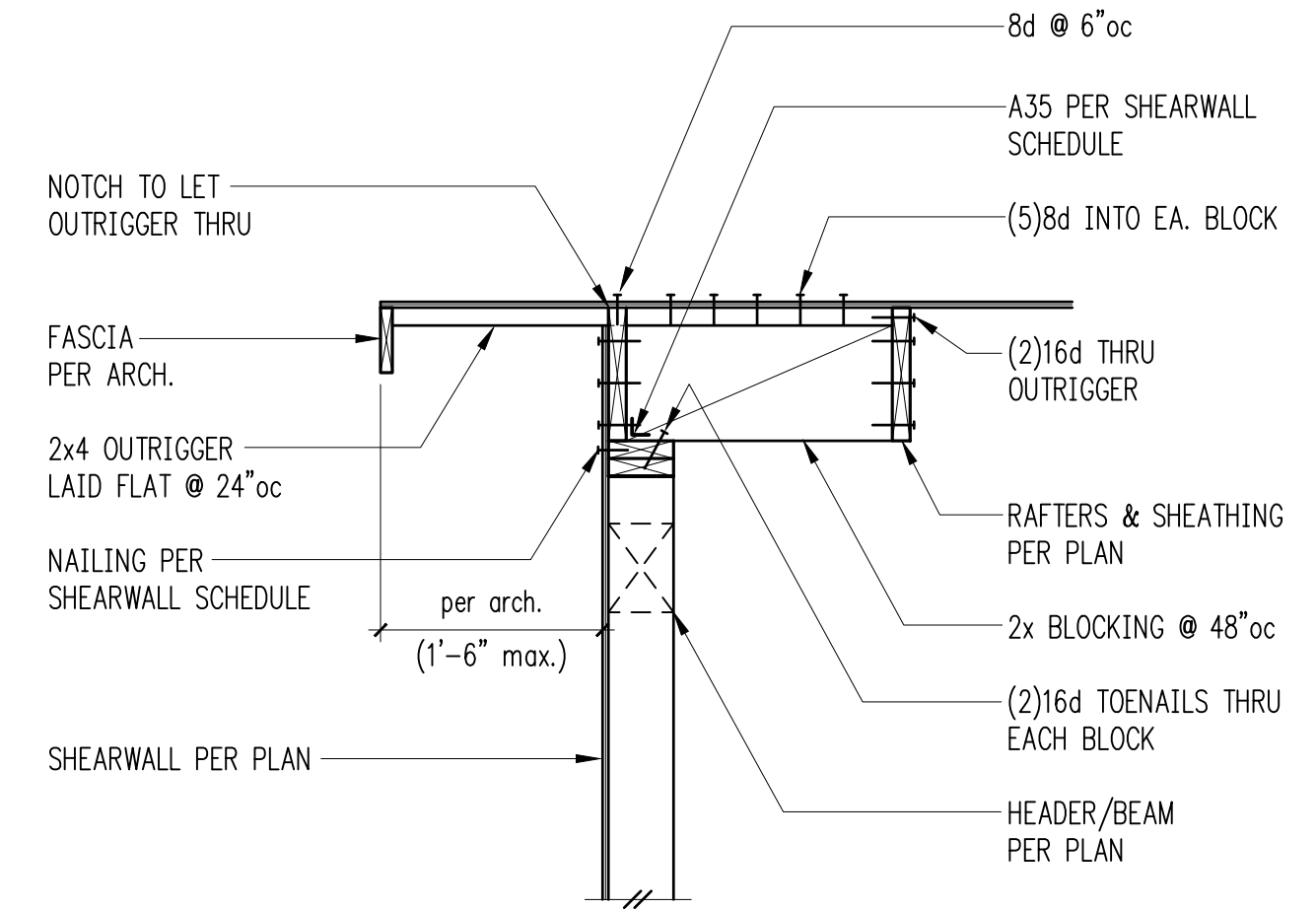
Beam w/ LRU Hangers 3



Trusses Parallel to Exterior Wall w/ Flat Outrigger 4



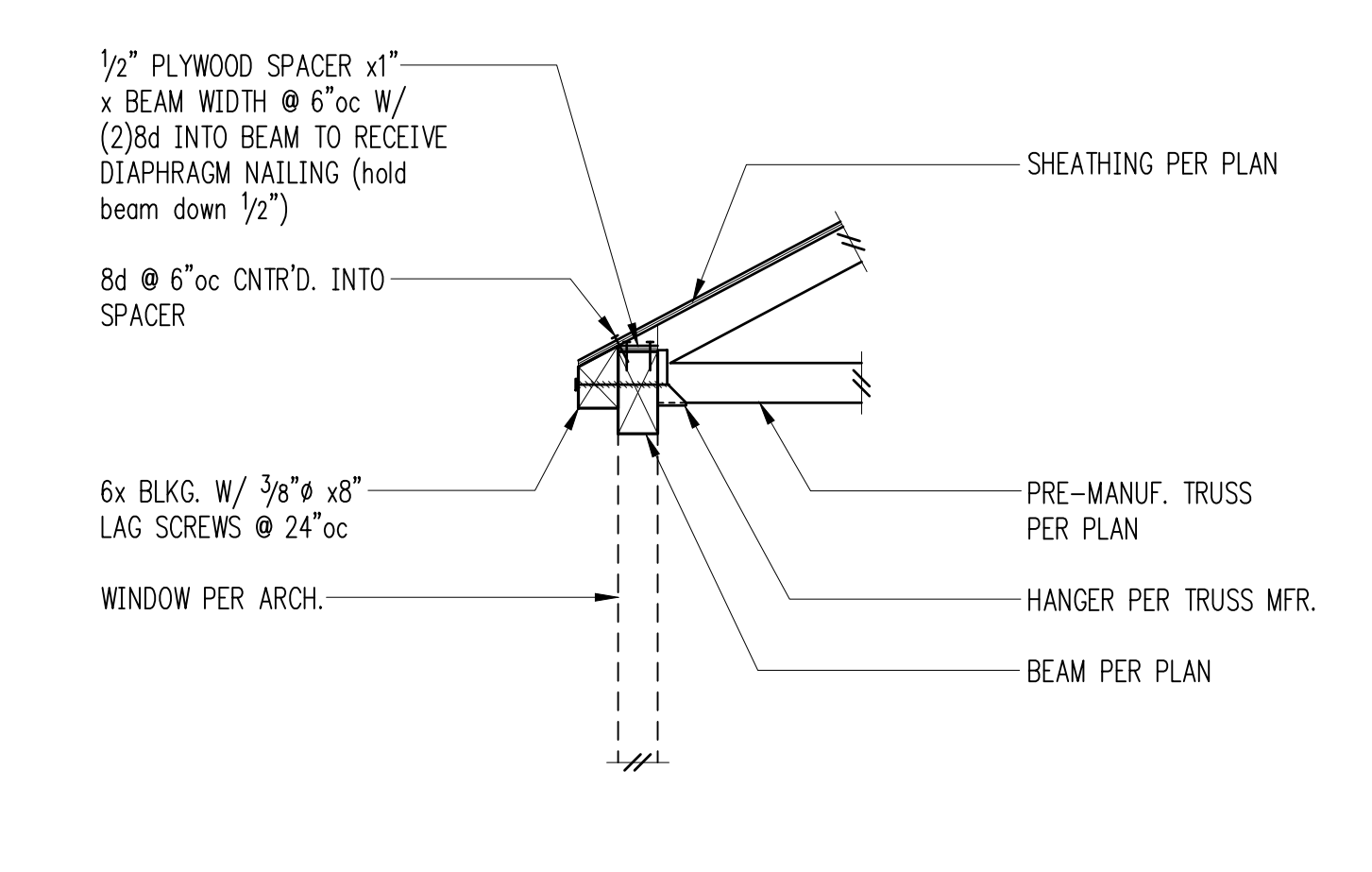
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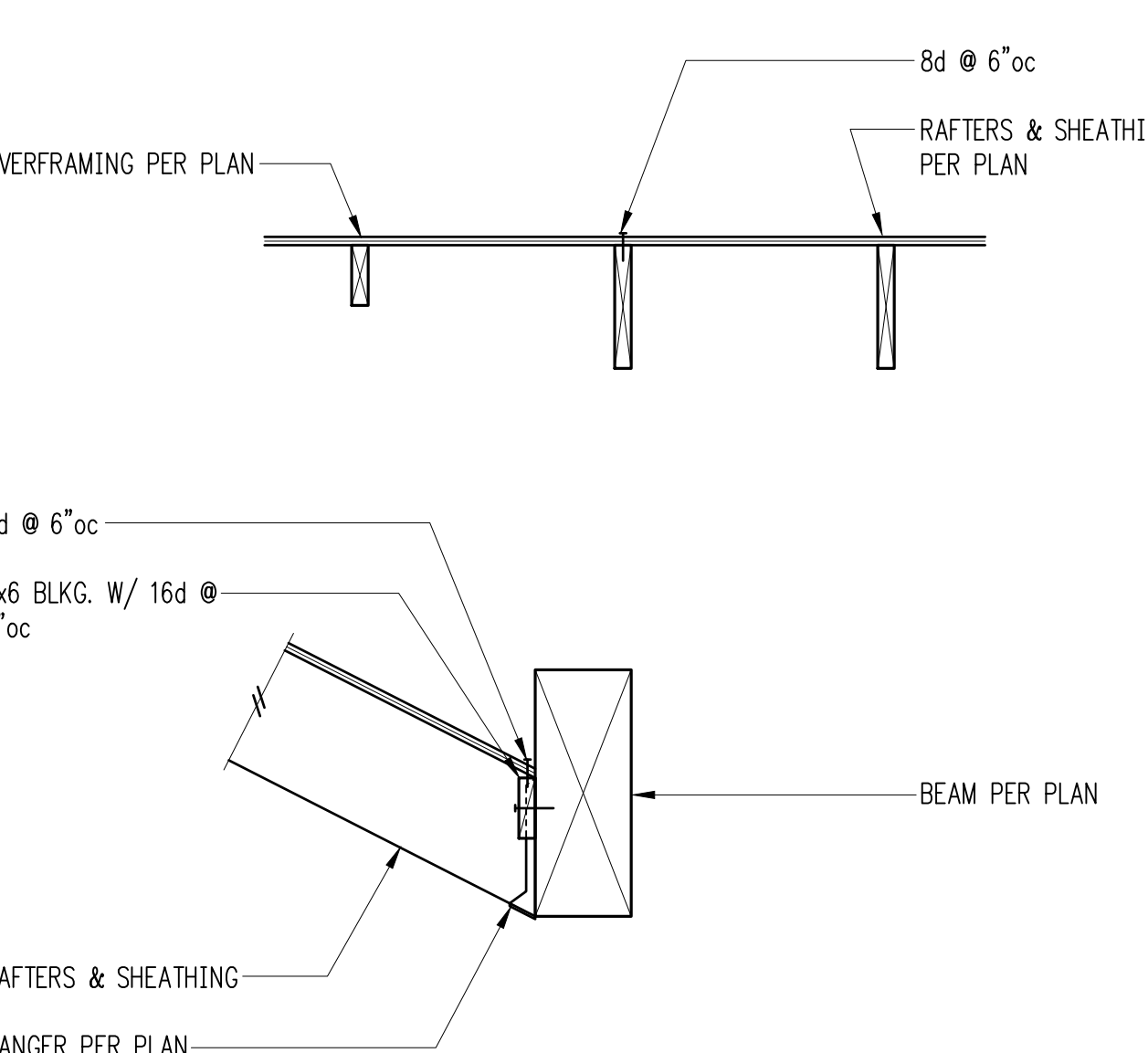
Exterior Non-Bearing Wall 6



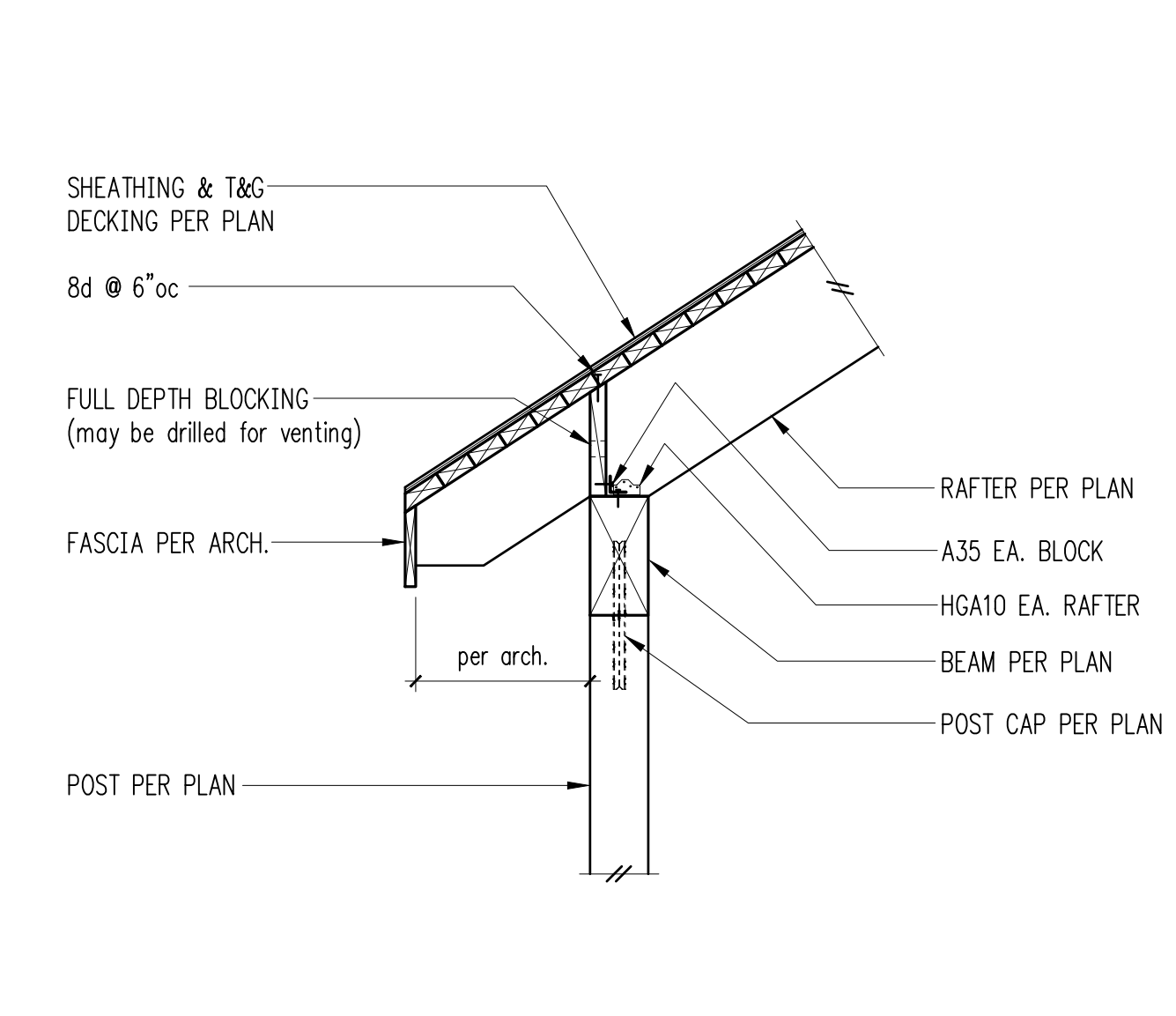
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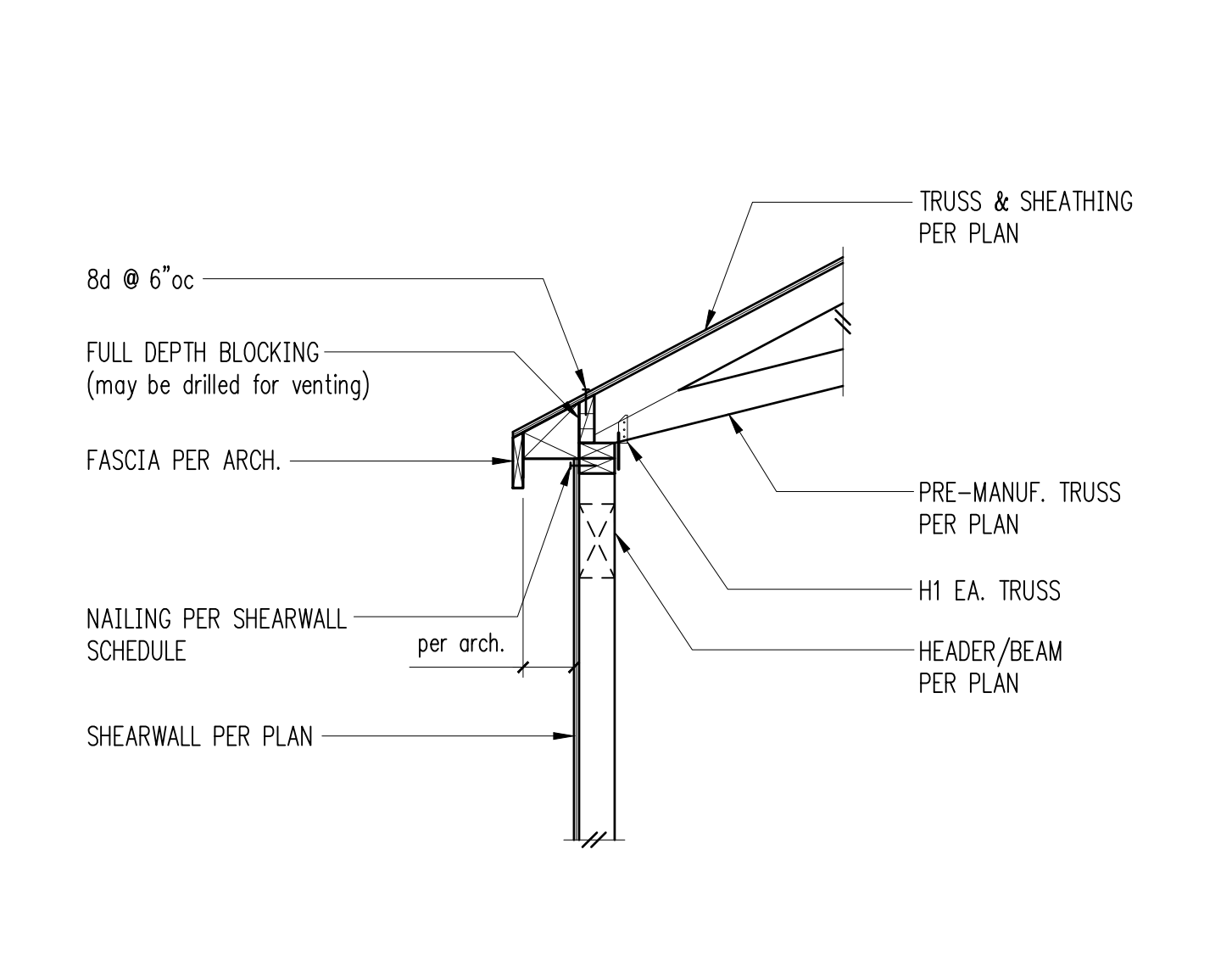
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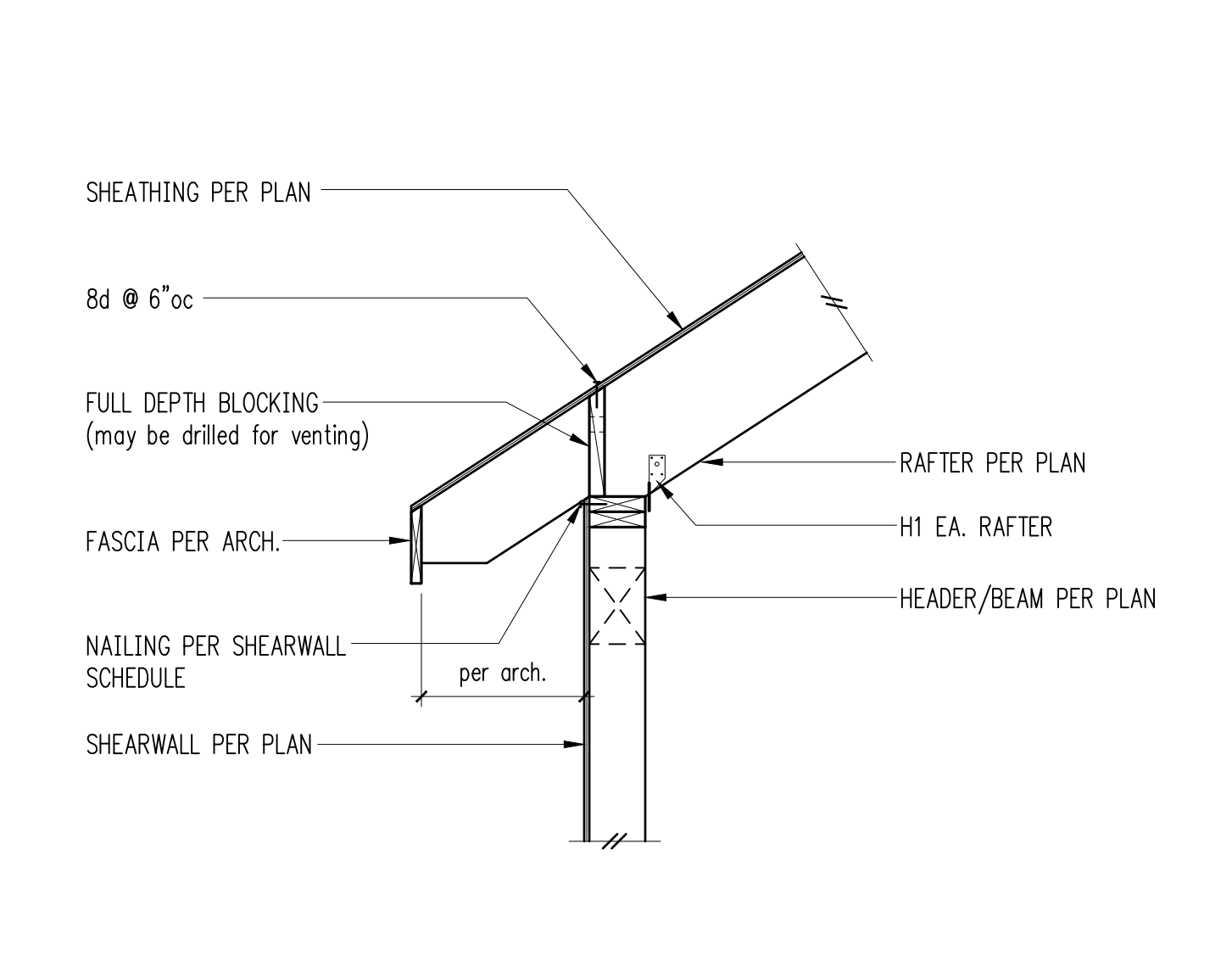
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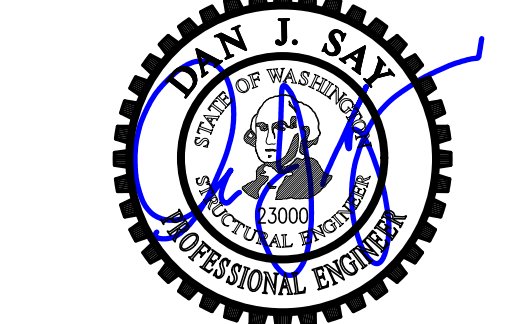
Beam & Post 10



Scissors Trusses Exterior Bearing Wall 11



Exterior Bearing Wall 12



DESIGN: HAA, BDM
 DRAWN: NHD
 CHECKED: BDM
 APPROVED: DJS

REVISIONS:

1	Revision 1	Aug. 15, 2022
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DPD:

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Clarkson Residence
 8163 West Mercer Way
 Mercer Island, WA 98040

ARCHITECT:
Brandt Design Group
 66 Bell Street, Unit 1
 Seattle, WA 98121
 PH 206.239.0850

ISSUE:
65% CD Set

SHEET TITLE:
Wood Framing Details

SCALE: 3/4" = 1'-0" U.N.O.
 DATE: June 22, 2022
 PROJECT NO: 01519-2021-11
 SHEET NO:

S4.3



DESIGN: HAA, BDM
DRAWN: NHD
CHECKED: BDM
APPROVED: DJS

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DPD:

PROJECT TITLE:
Clarkson Residence
8163 West Mercer Way
Mercer Island, WA 98040

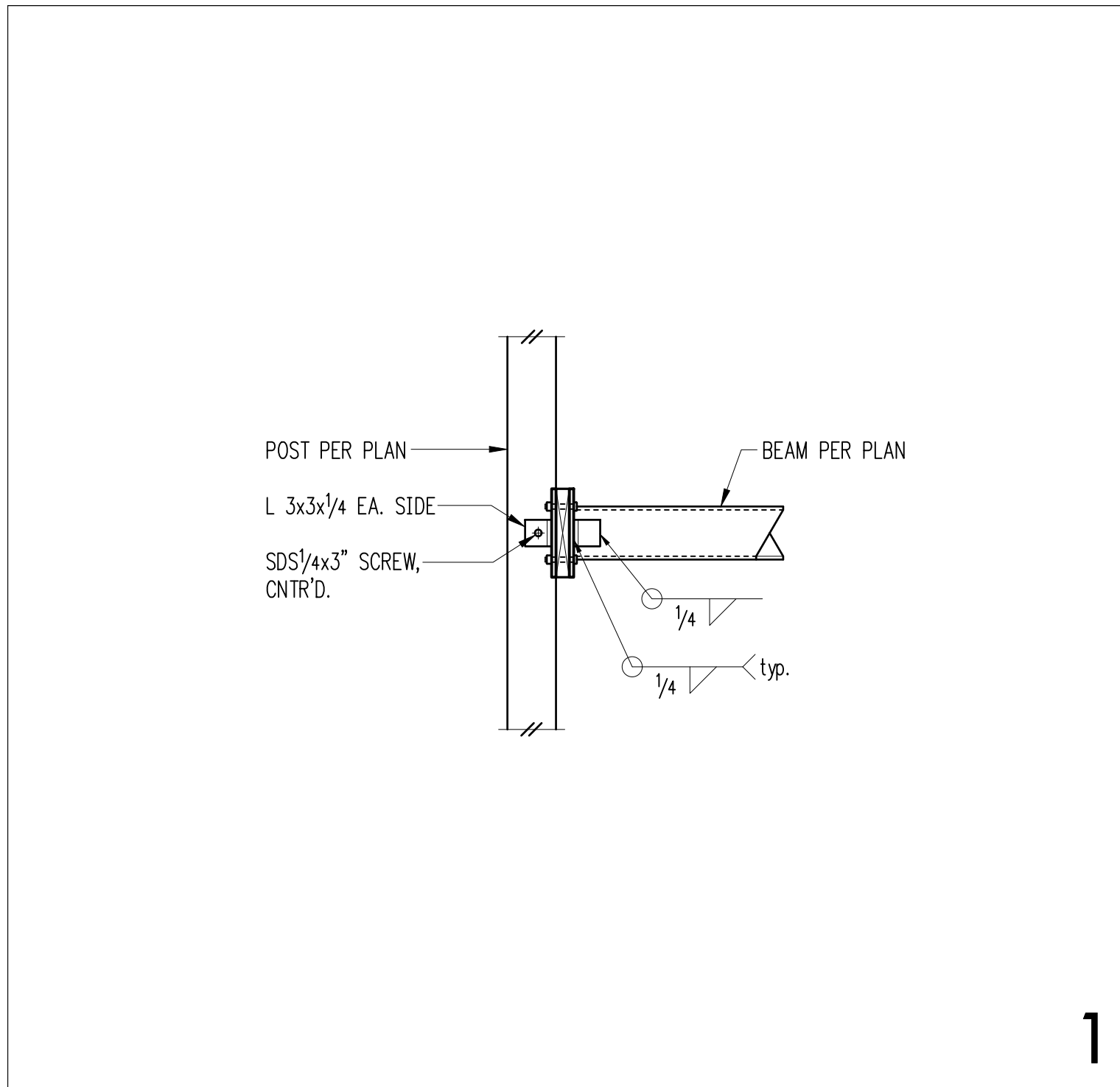
ARCHITECT:
Brandt Design Group
66 Bell Street, Unit 1
Seattle, WA 98121
PH 206.239.0850

ISSUE:
65% CD Set

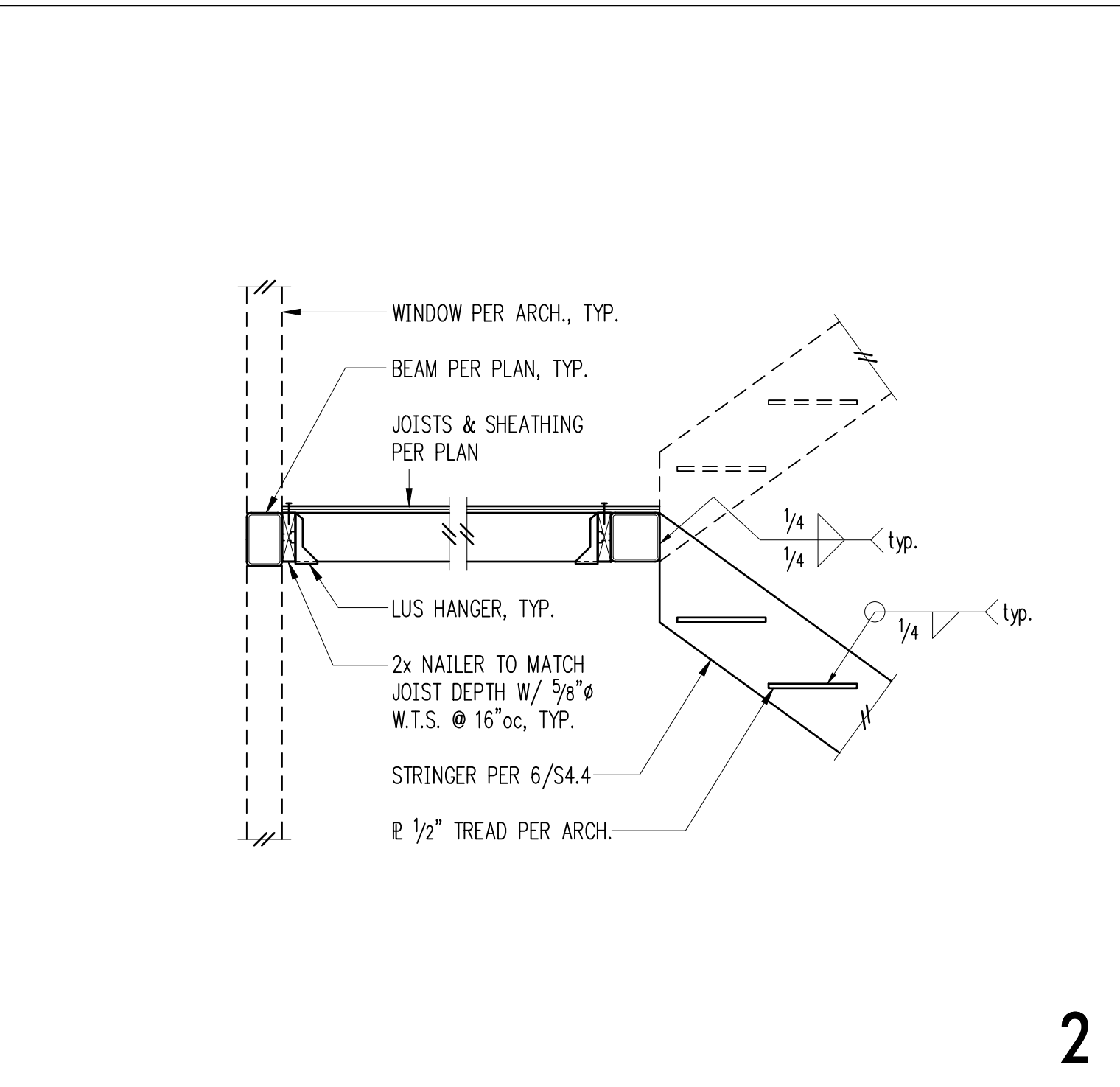
SHEET TITLE:
**Wood Framing
Details**

SCALE: 3/4" = 1'-0" U.N.O.
DATE: June 22, 2022
PROJECT NO: 01519-2021-11
SHEET NO:

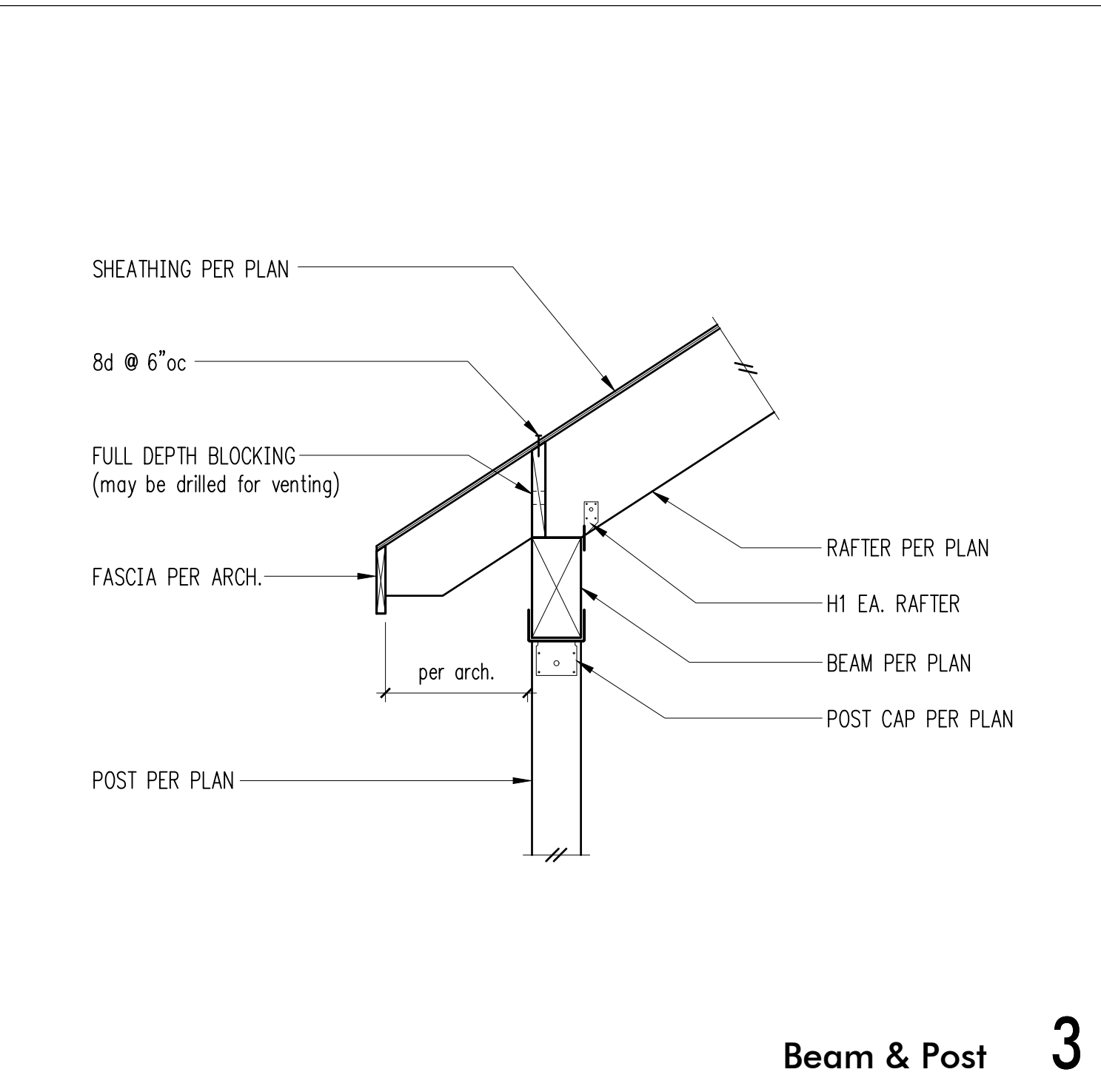
S4.4



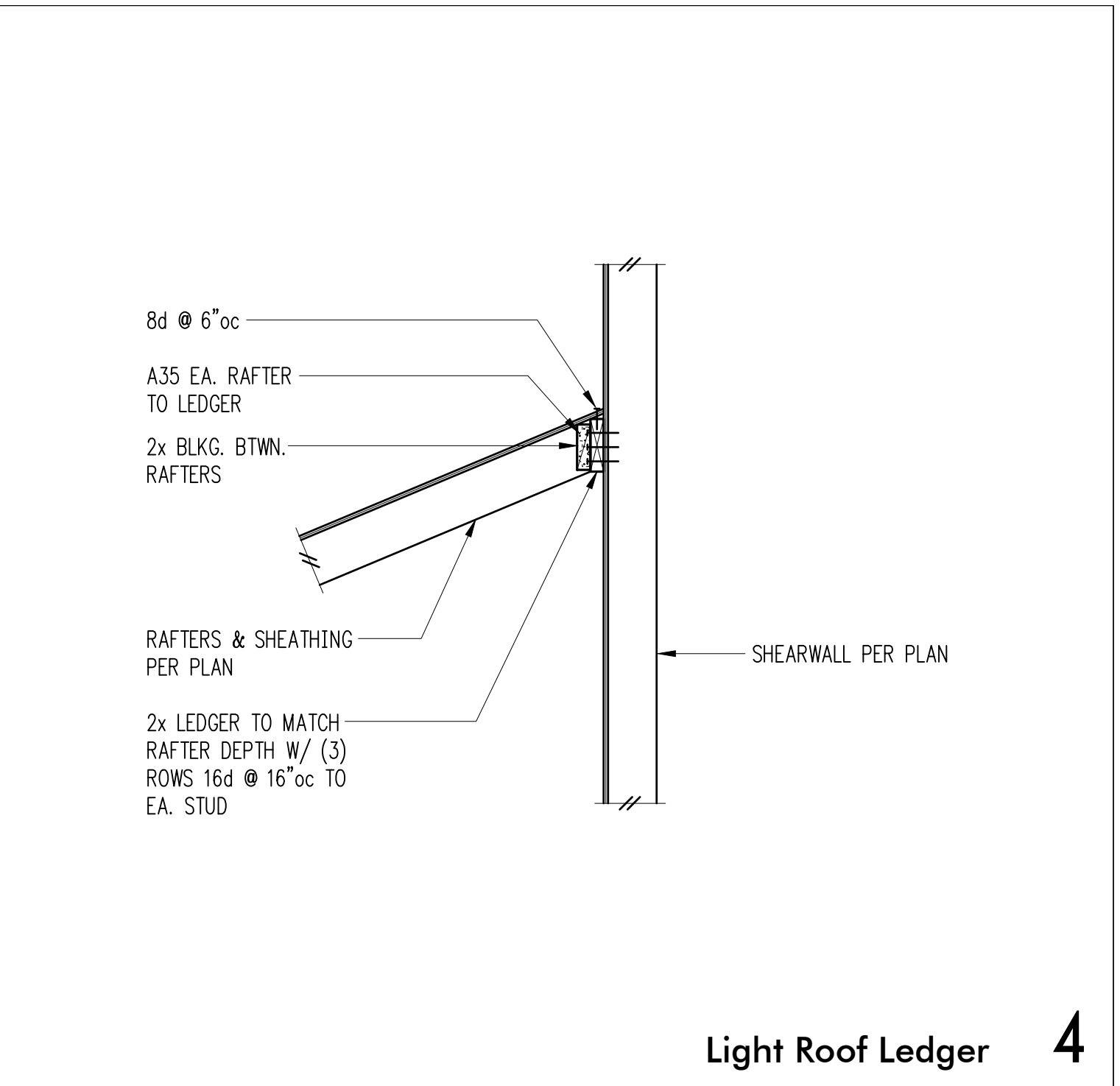
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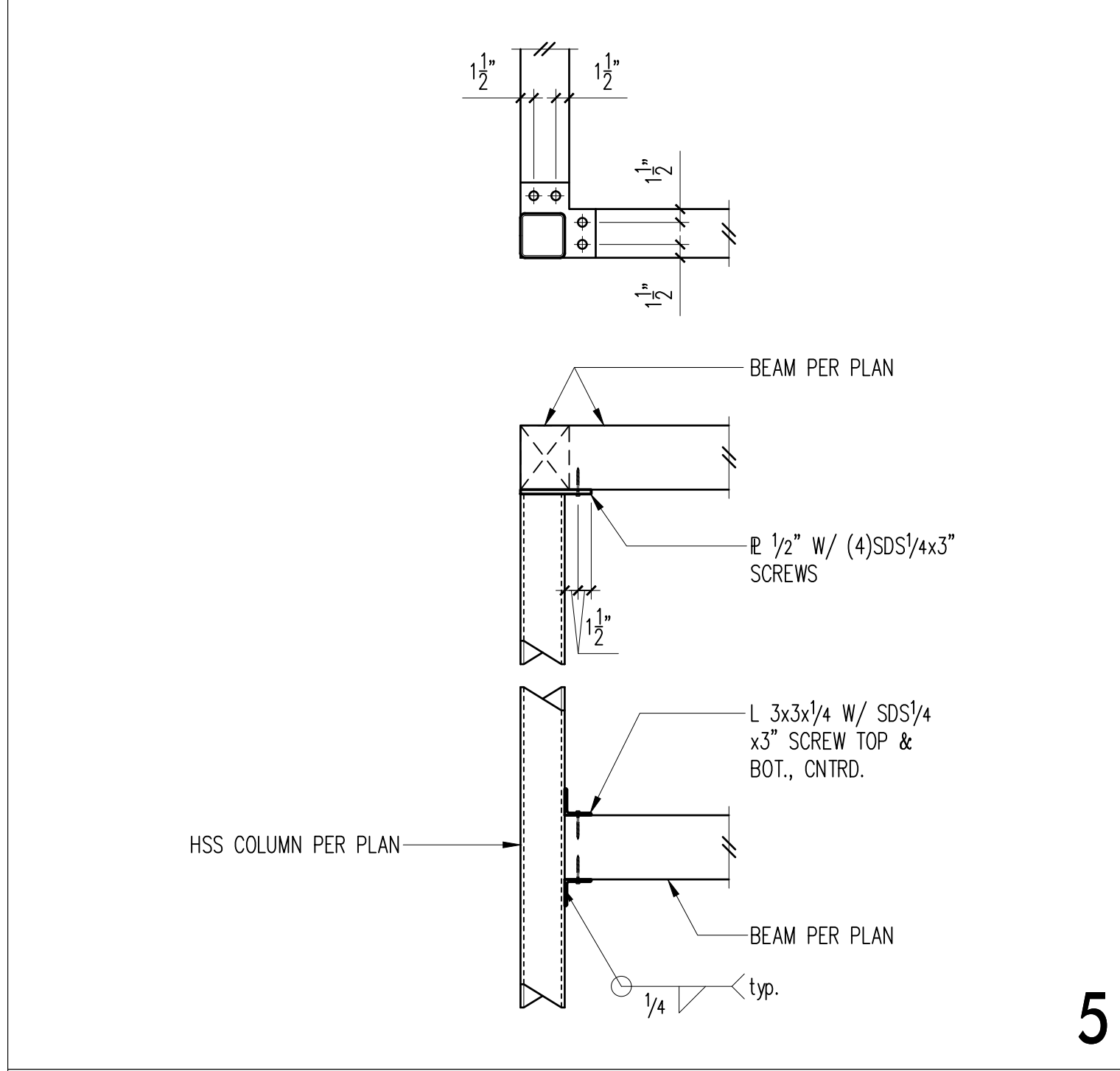
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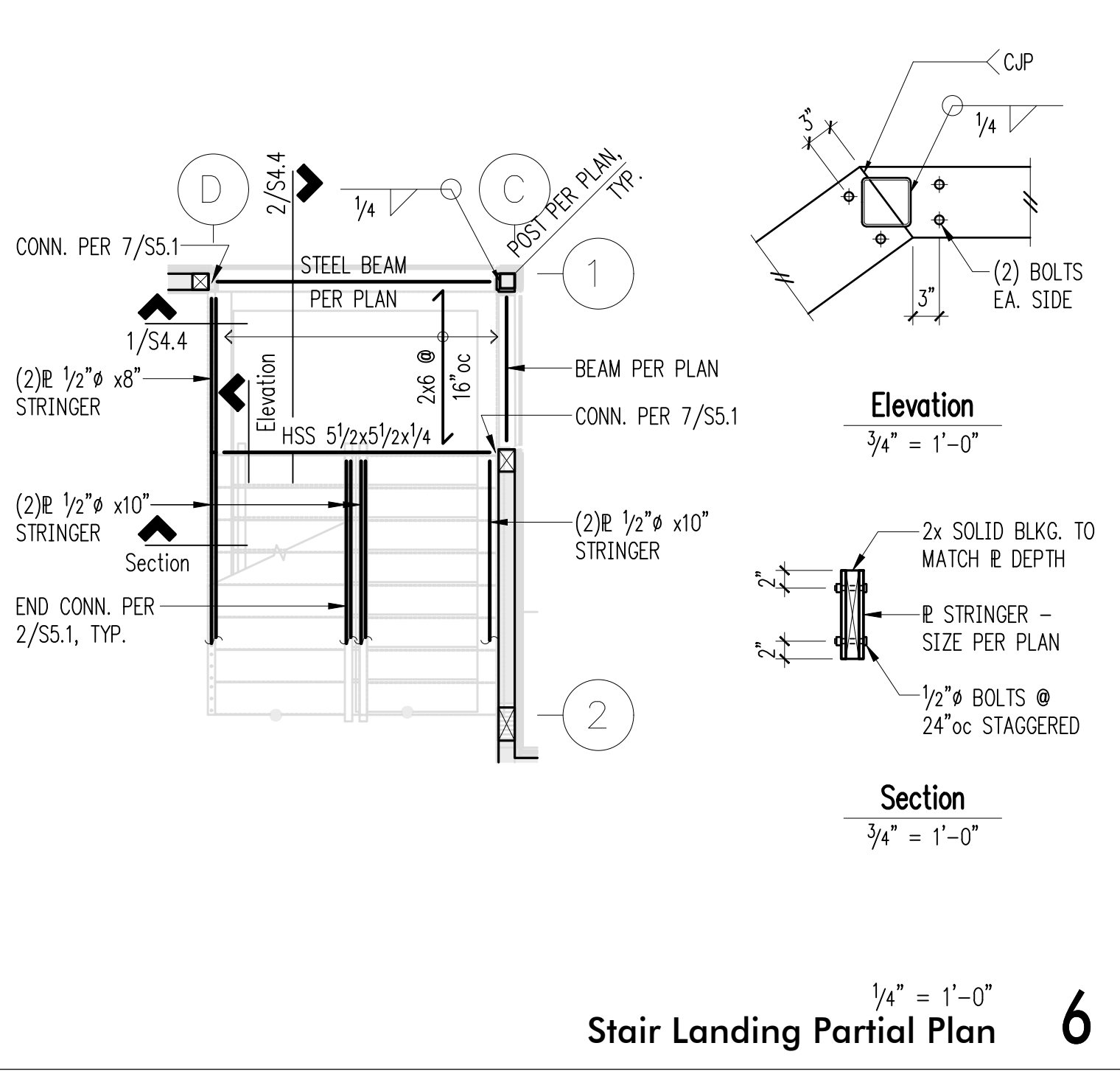
Beam & Post 3



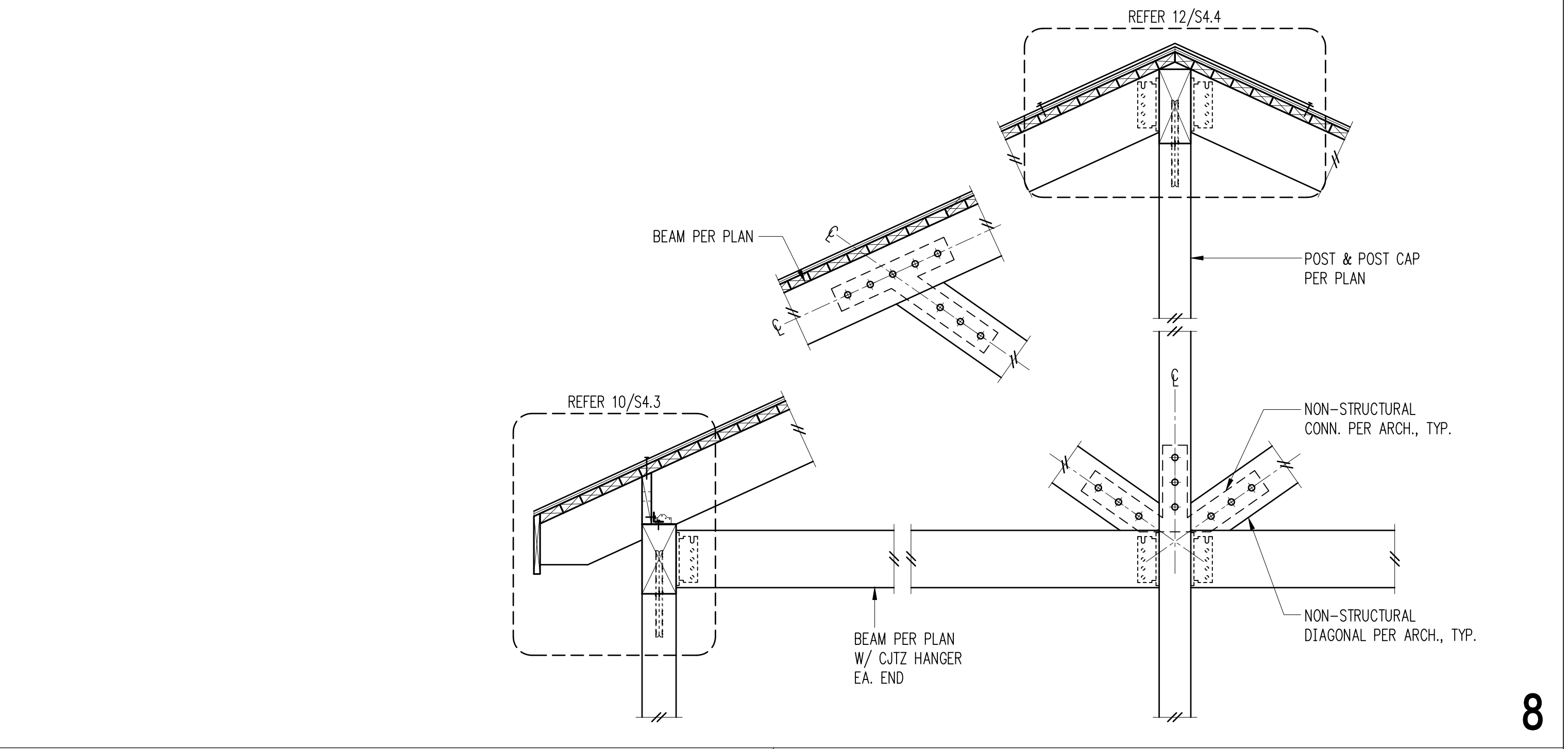
Light Roof Ledger 4



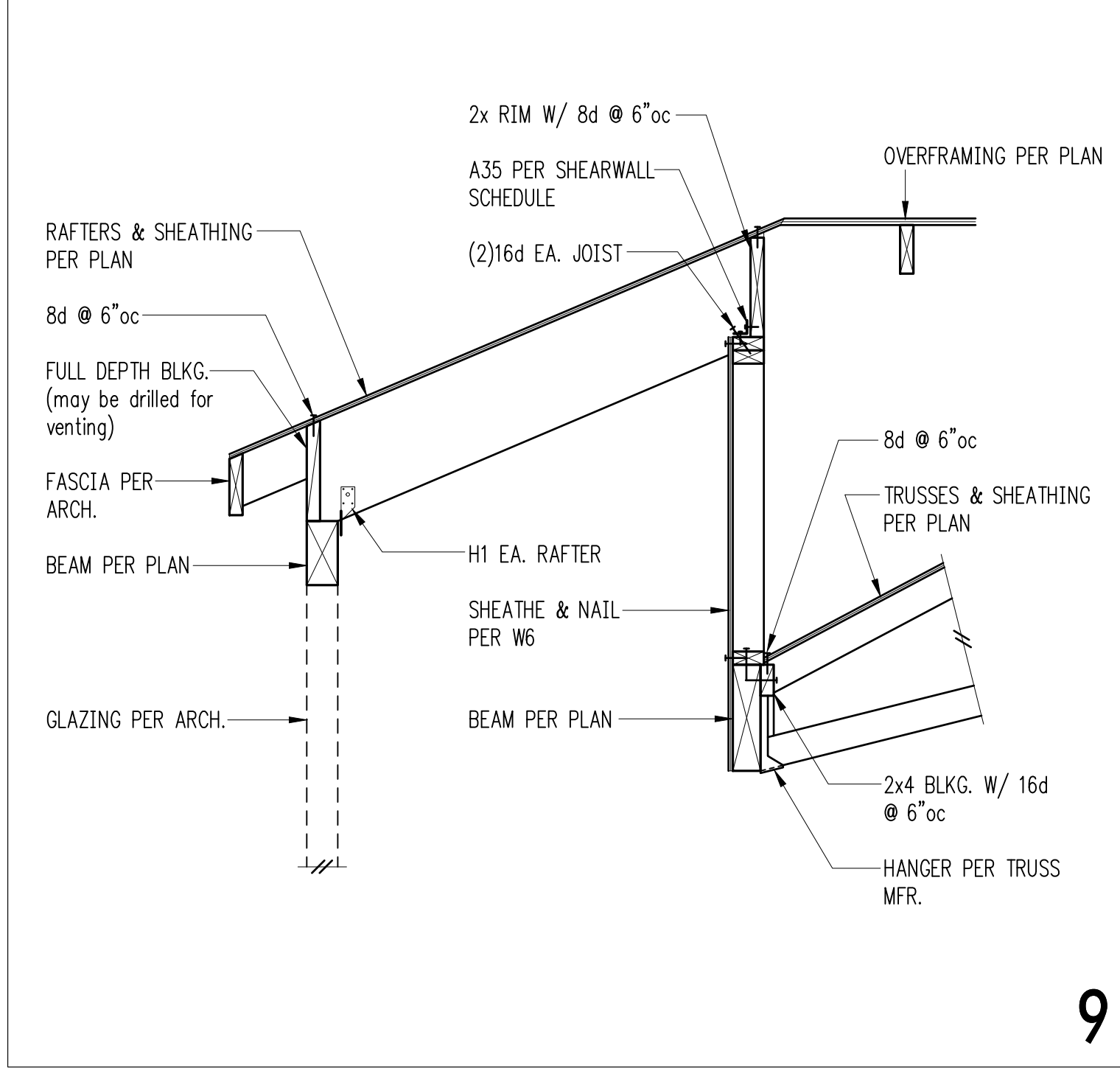
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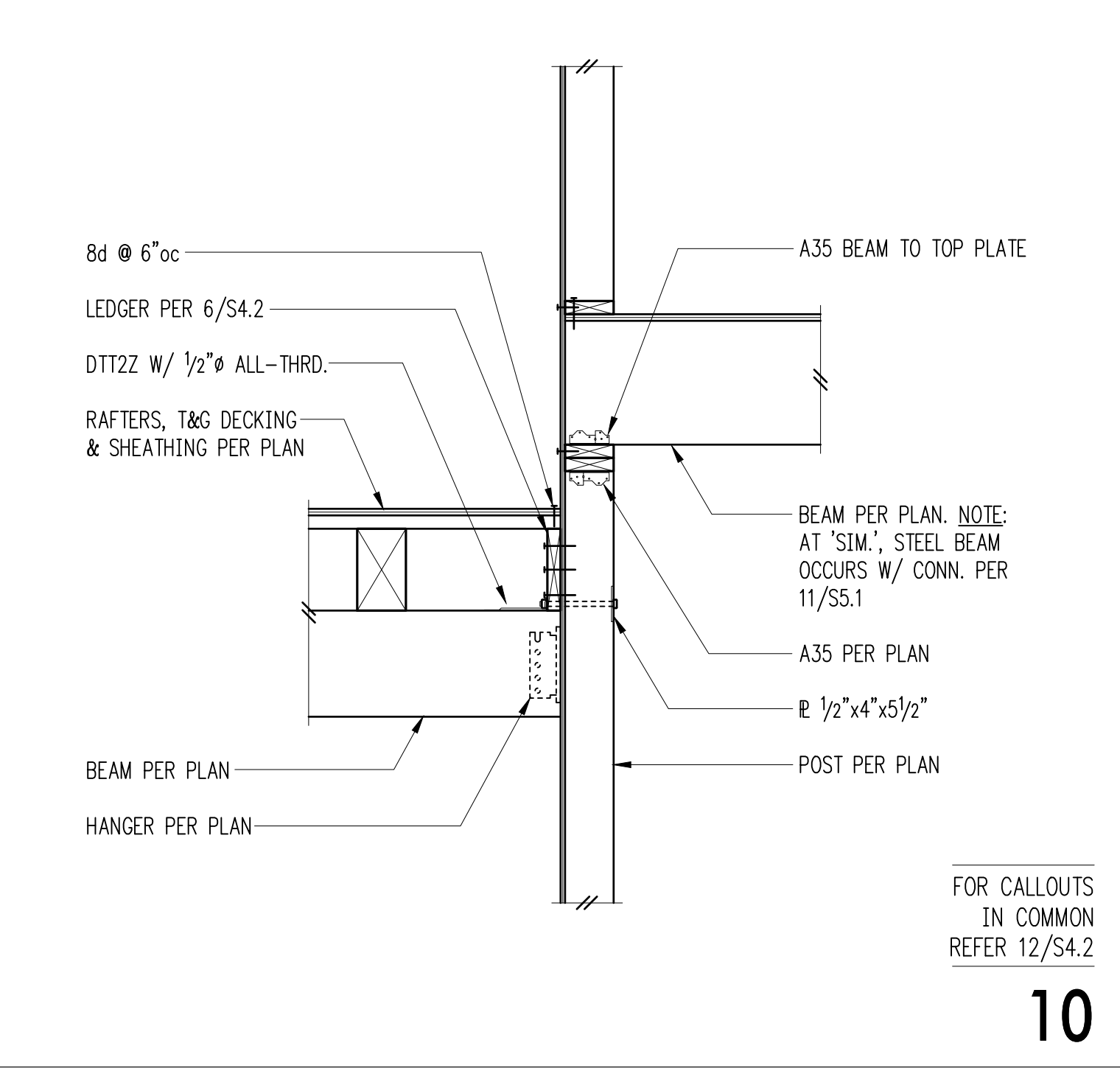
Stair Landing Partial Plan 6



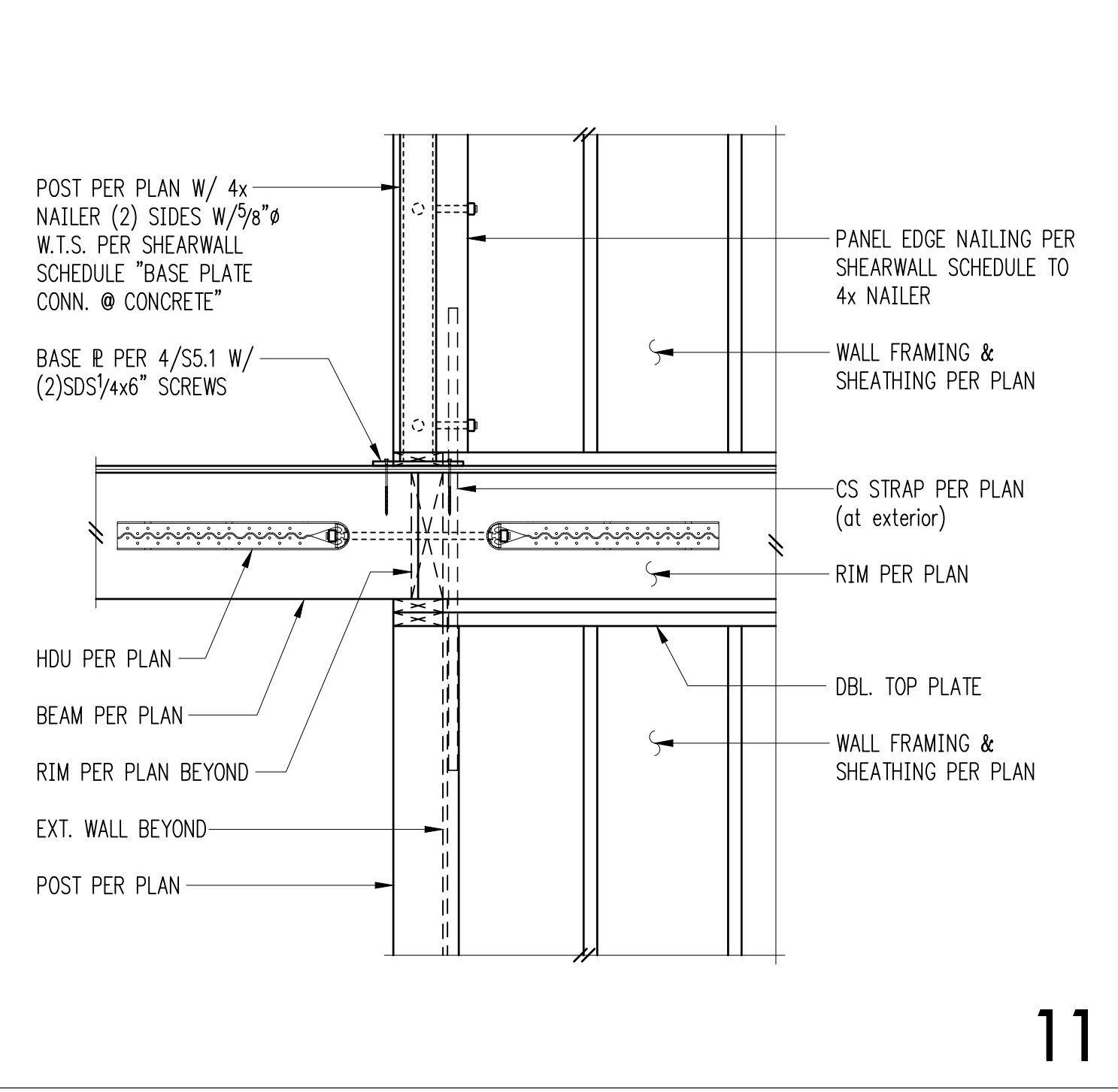
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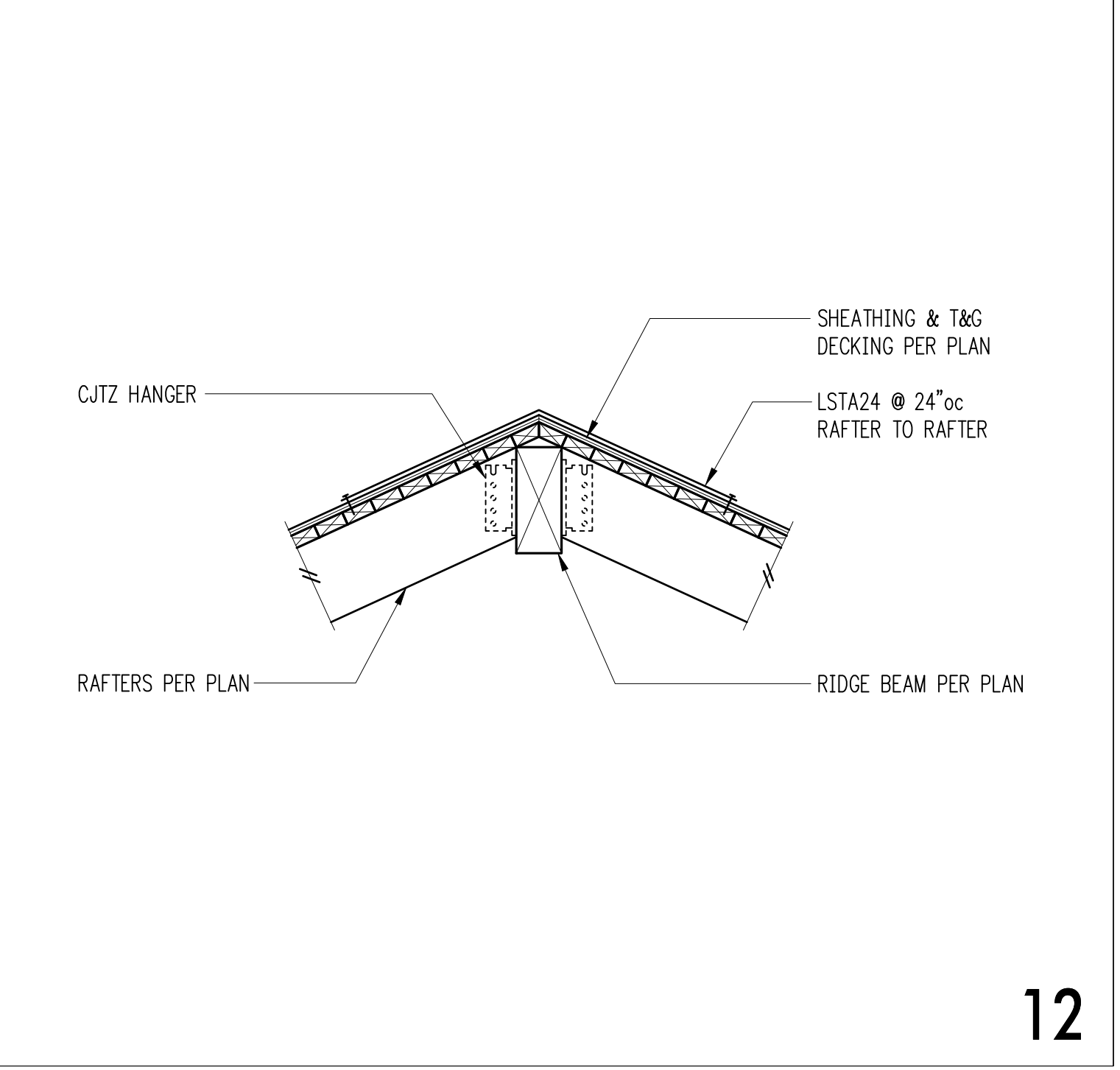
9



10



11



12



DESIGN: HAA, BDM
 DRAWN: NHD
 CHECKED: BDM
 APPROVED: DJS

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1	Revision 1	Aug. 15, 2022
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3	Permit Revisions	Jun. 30, 2023
4	CA Revisions	Nov. 3, 2023

DPD:

PROJECT TITLE:
Clarkson Residence
 8163 West Mercer Way
 Mercer Island, WA 98040

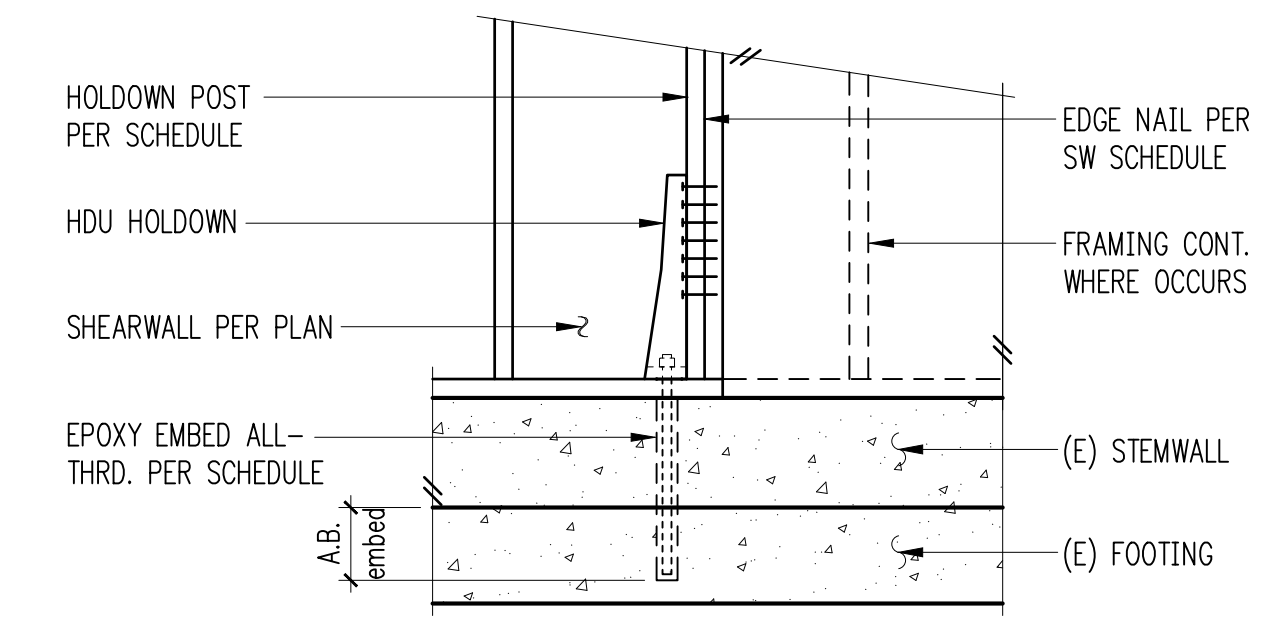
ARCHITECT:
Brandt Design Group
 66 Bell Street, Unit 1
 Seattle, WA 98121
 PH 206.239.0850

ISSUE:
65% CD Set

SHEET TITLE:
Wood Framing Details

SCALE: 3/4" = 1'-0" U.N.O.
 DATE: June 22, 2022
 PROJECT NO: 01519-2021-11
 SHEET NO:

S4.5



Holdown Schedule

Plan Mark	Screws	Anchor Bolt	A.B. Embed	Holdown Post ①	
				if 2x4	if 2x6
HDU4-SDS2.5	(10)SDS 1/4"x2 1/2"	5/8"Ø	6"	4x4	4x6

① MINIMUM SIZE OF POST AT END OF WALL UNLESS OTHERWISE NOTED ON FRAMING PLANS.

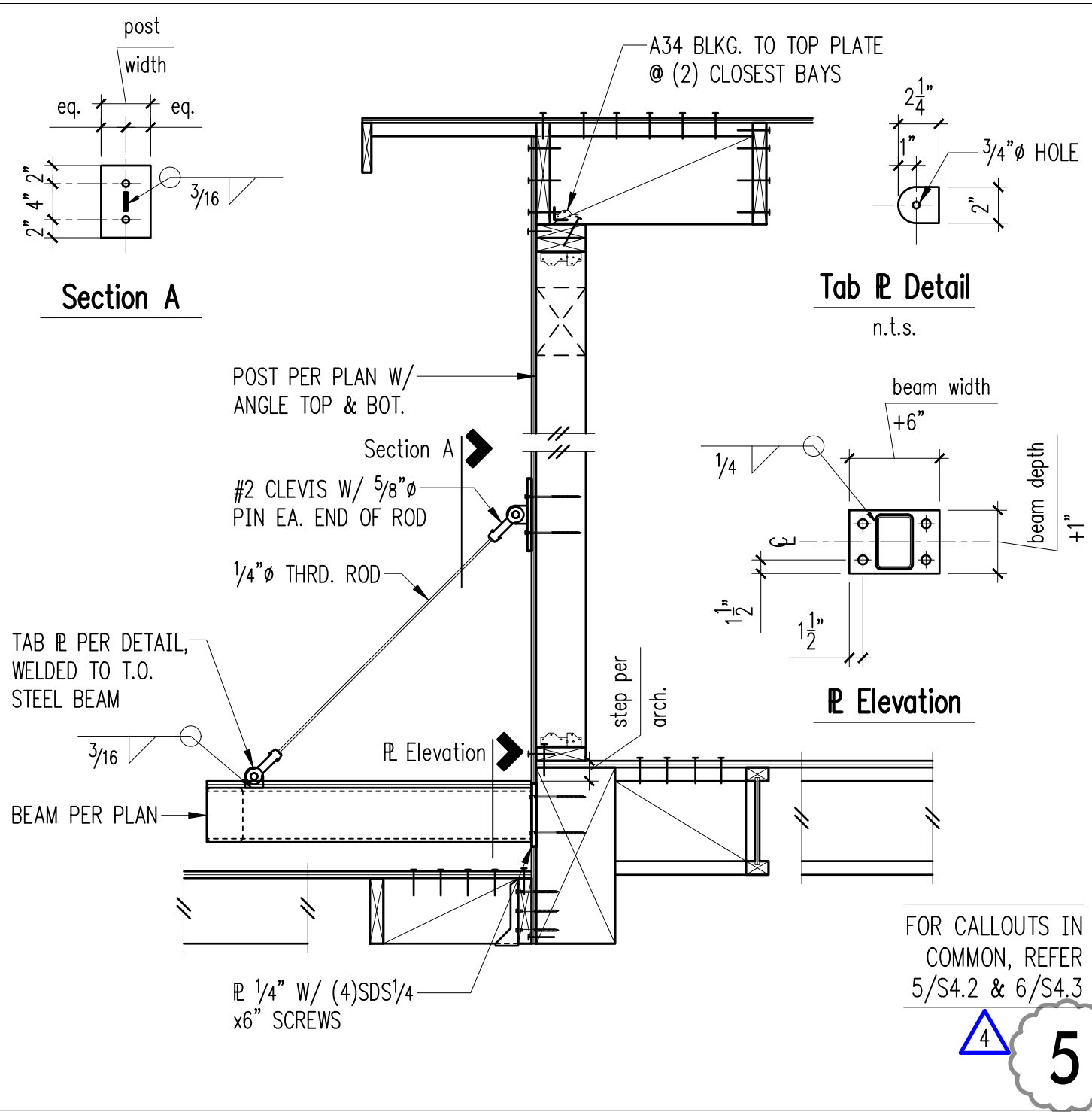
Typical HDU Holdown

1

2

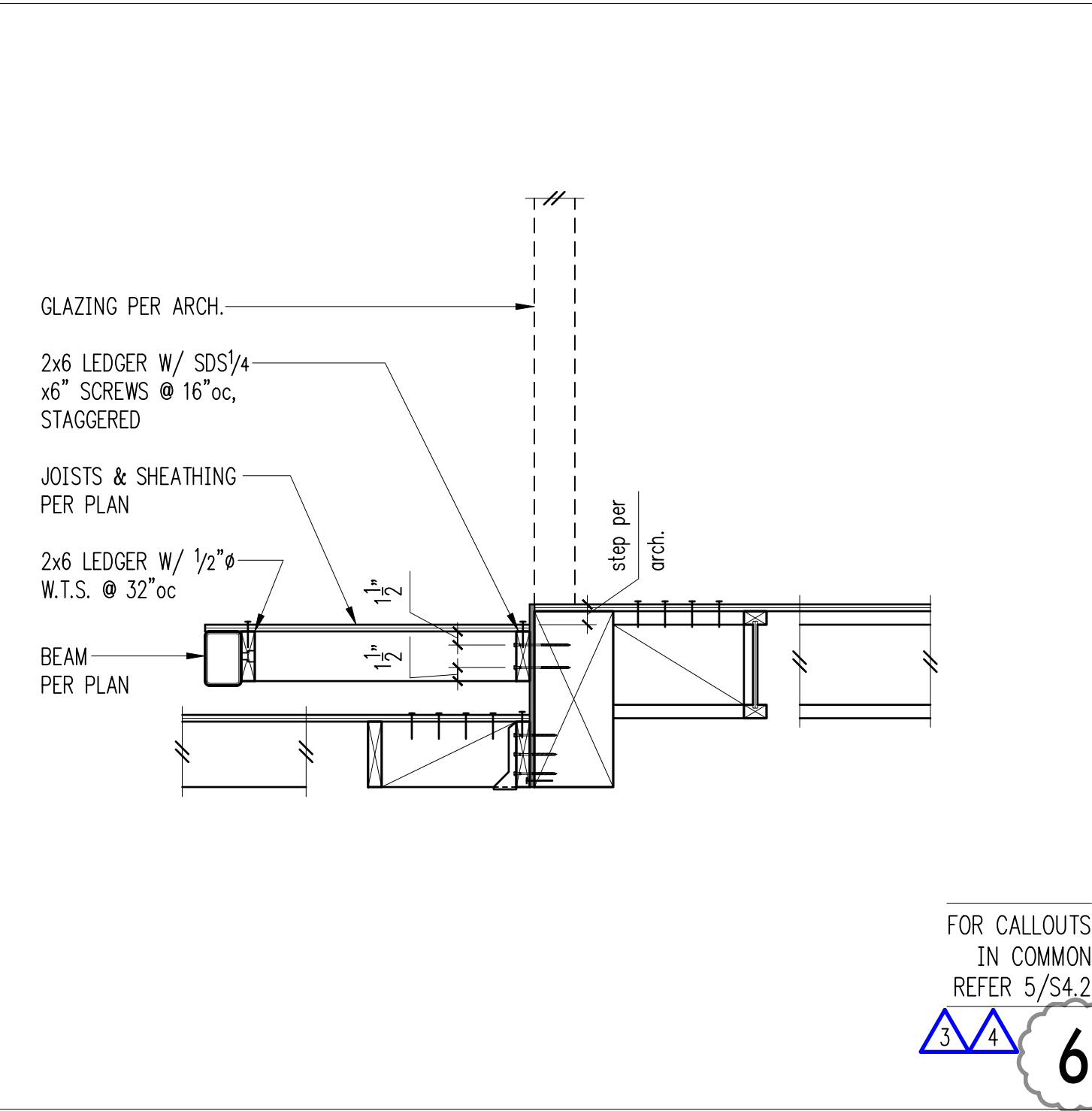
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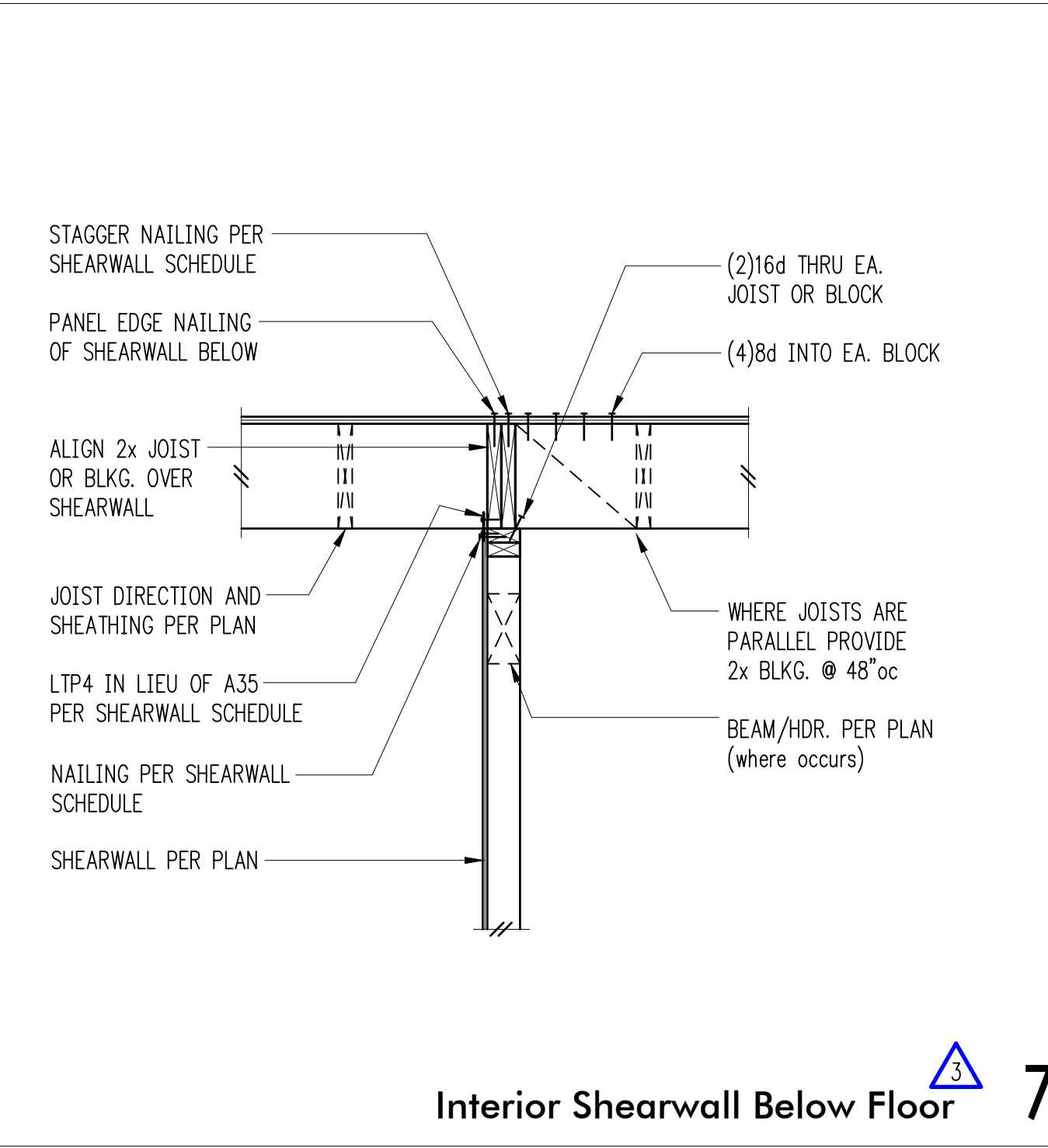
FOR CALLOUTS IN COMMON, REFER 5/S4.2 & 6/S4.3

5



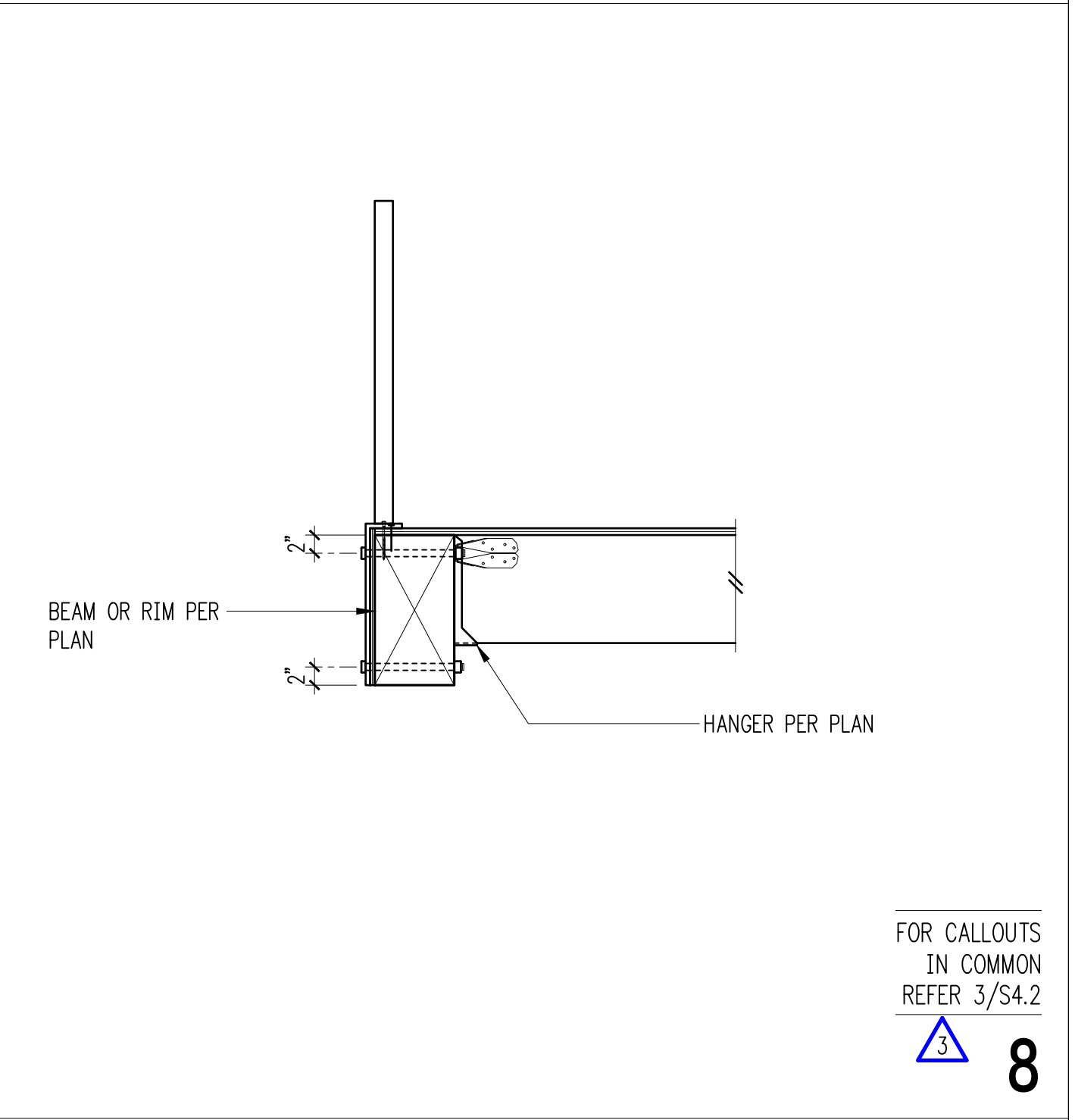
FOR CALLOUTS IN COMMON REFER 5/S4.2

6



Interior Shearwall Below Floor

7



FOR CALLOUTS IN COMMON REFER 3/S4.2

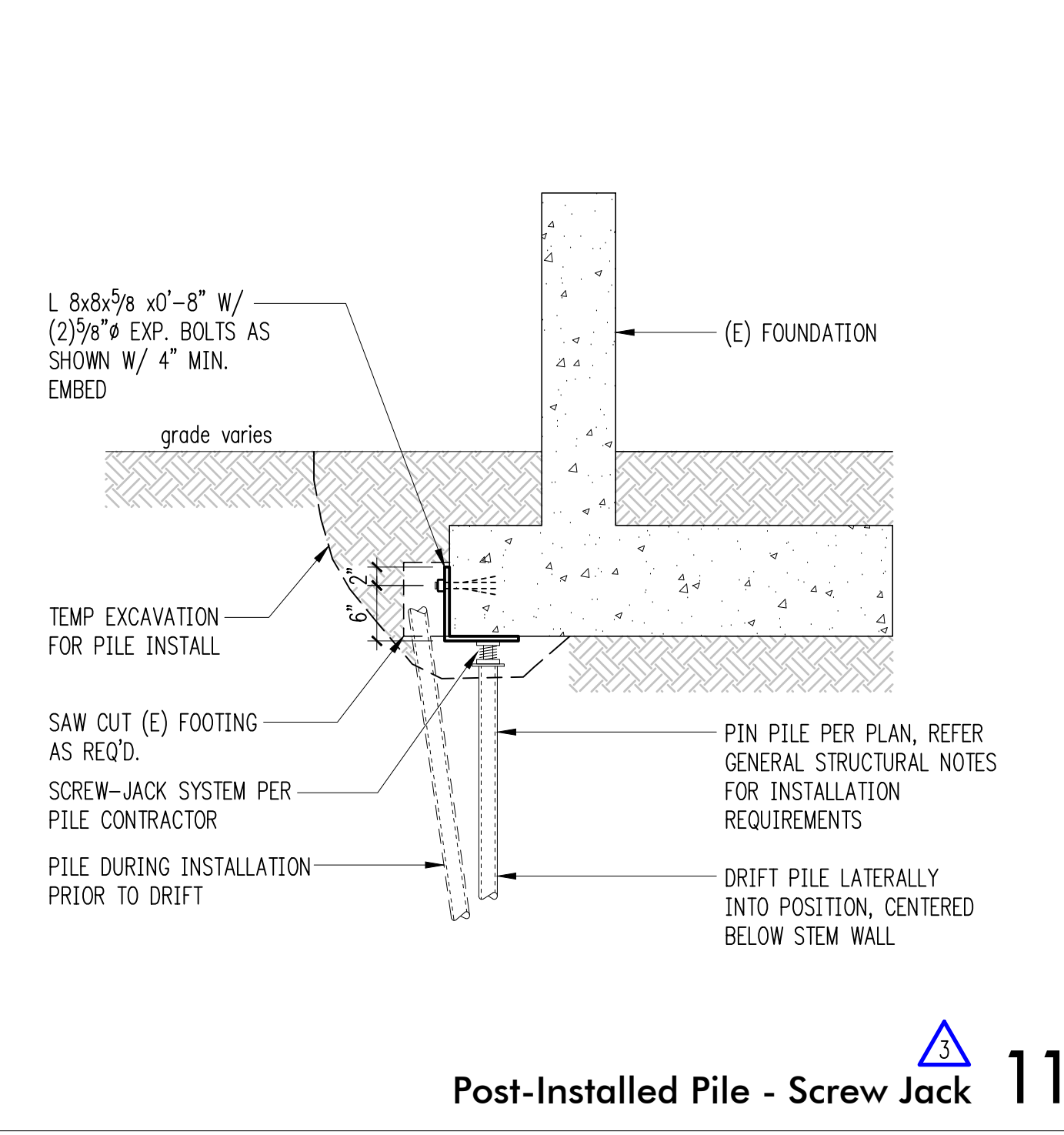
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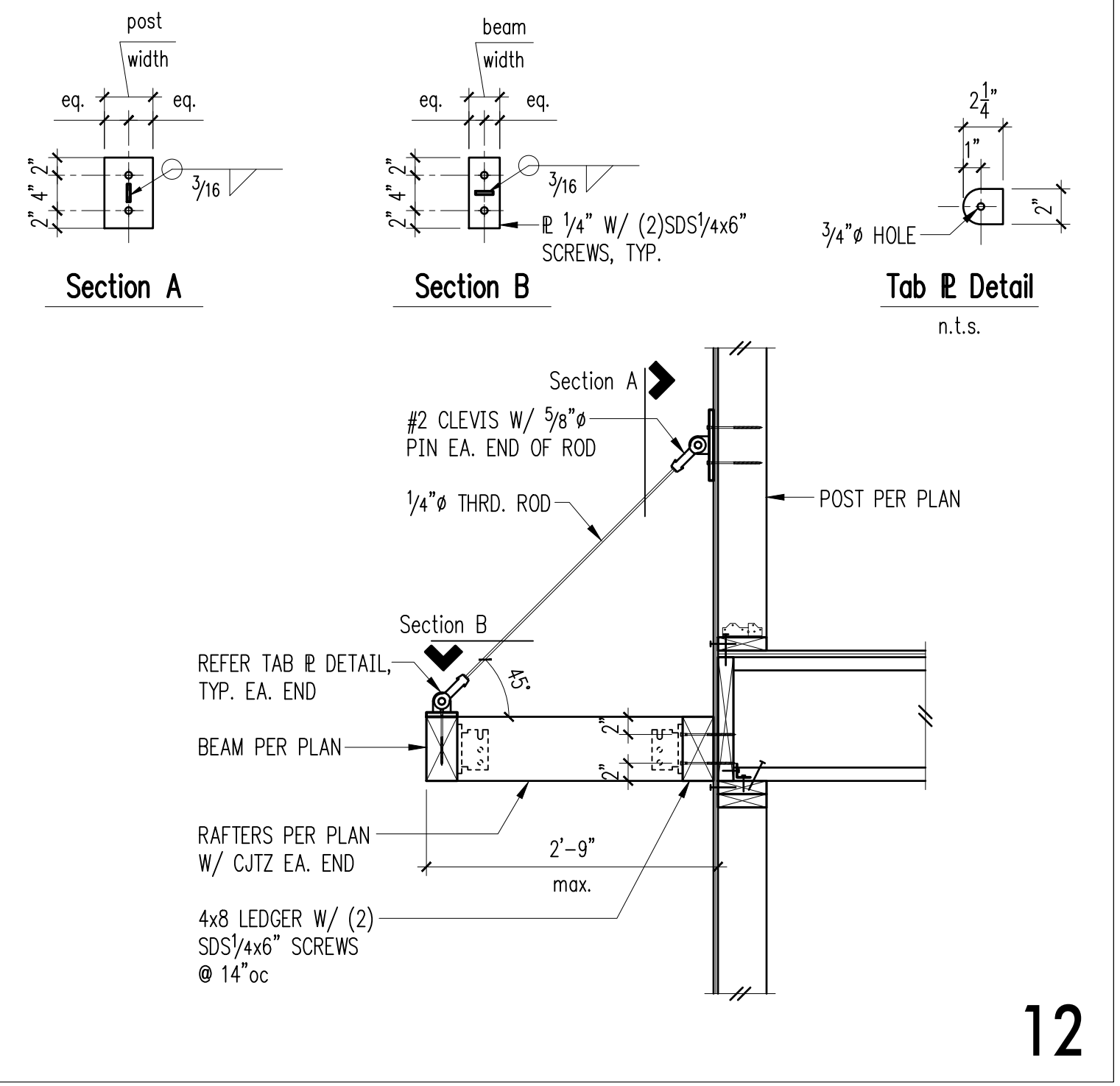
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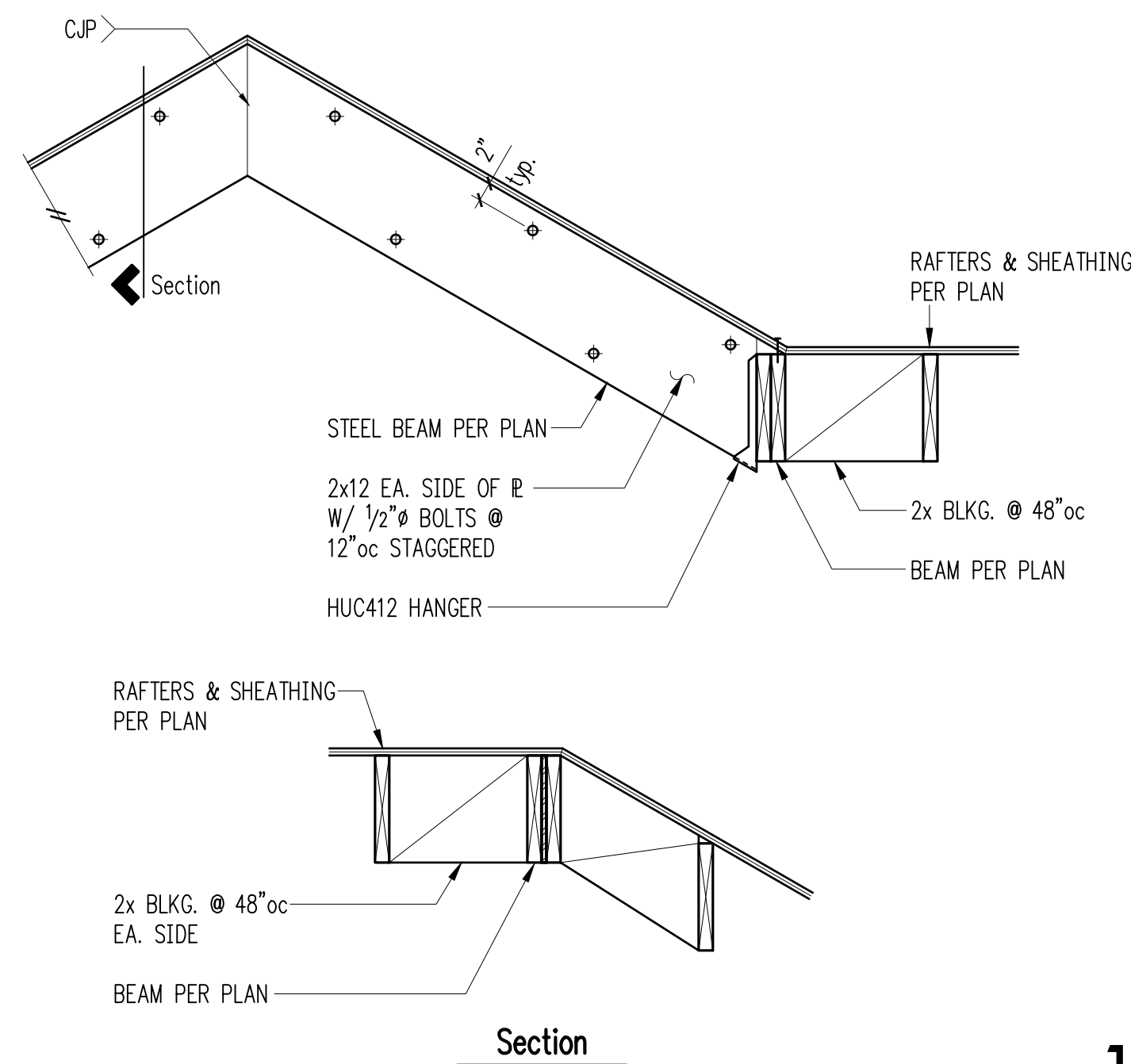
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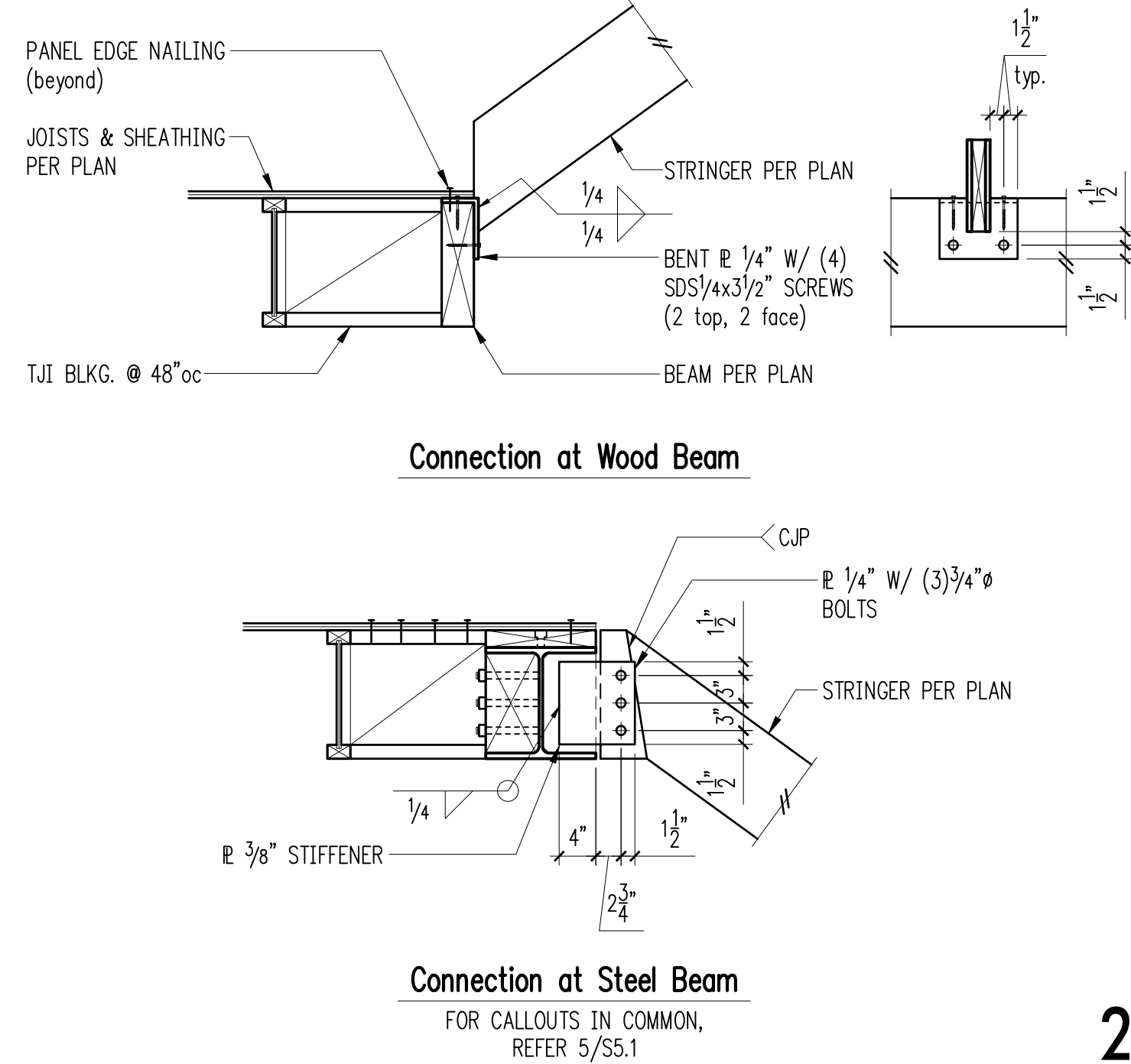
Post-Installed Pile - Screw Jack



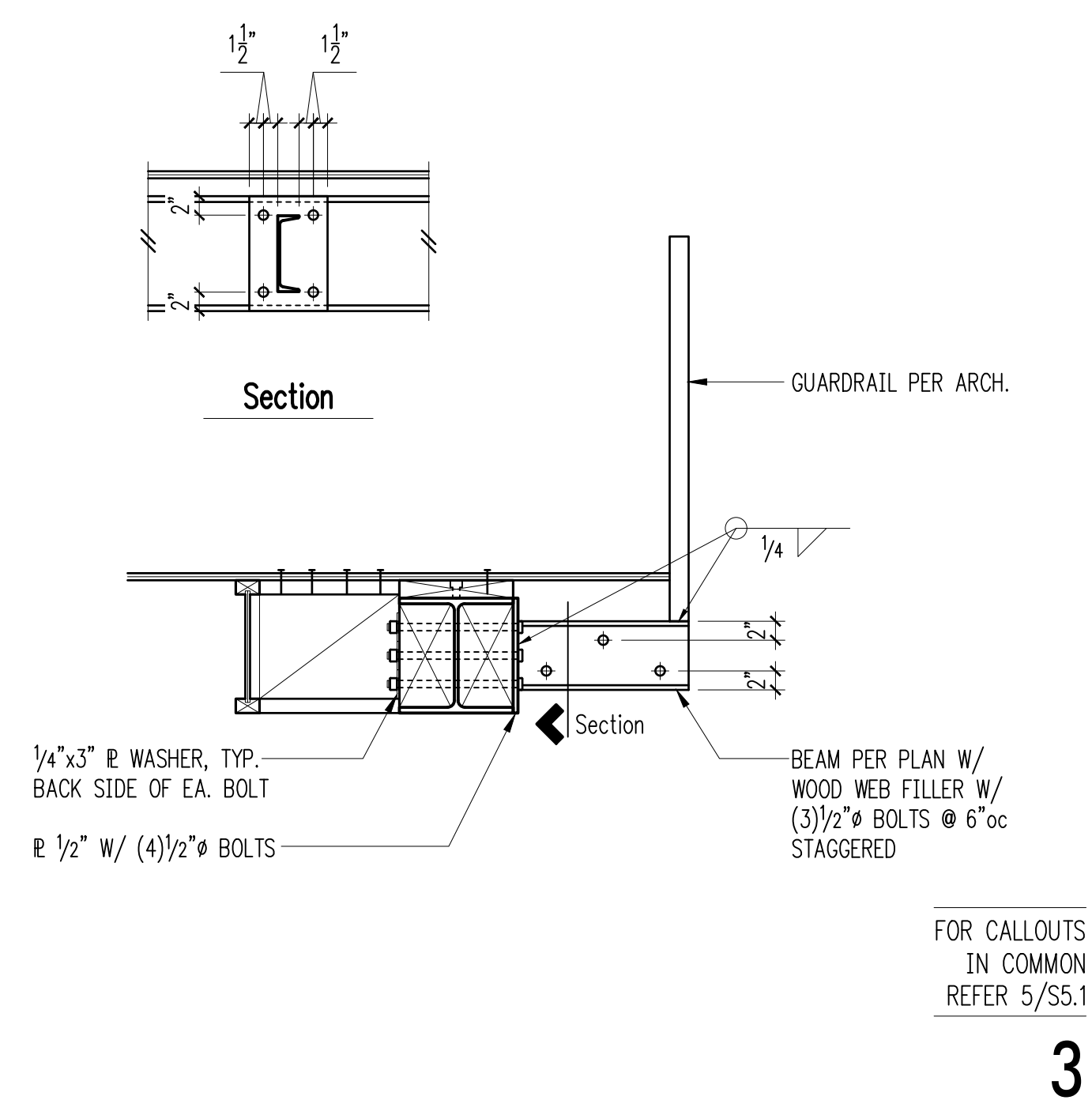
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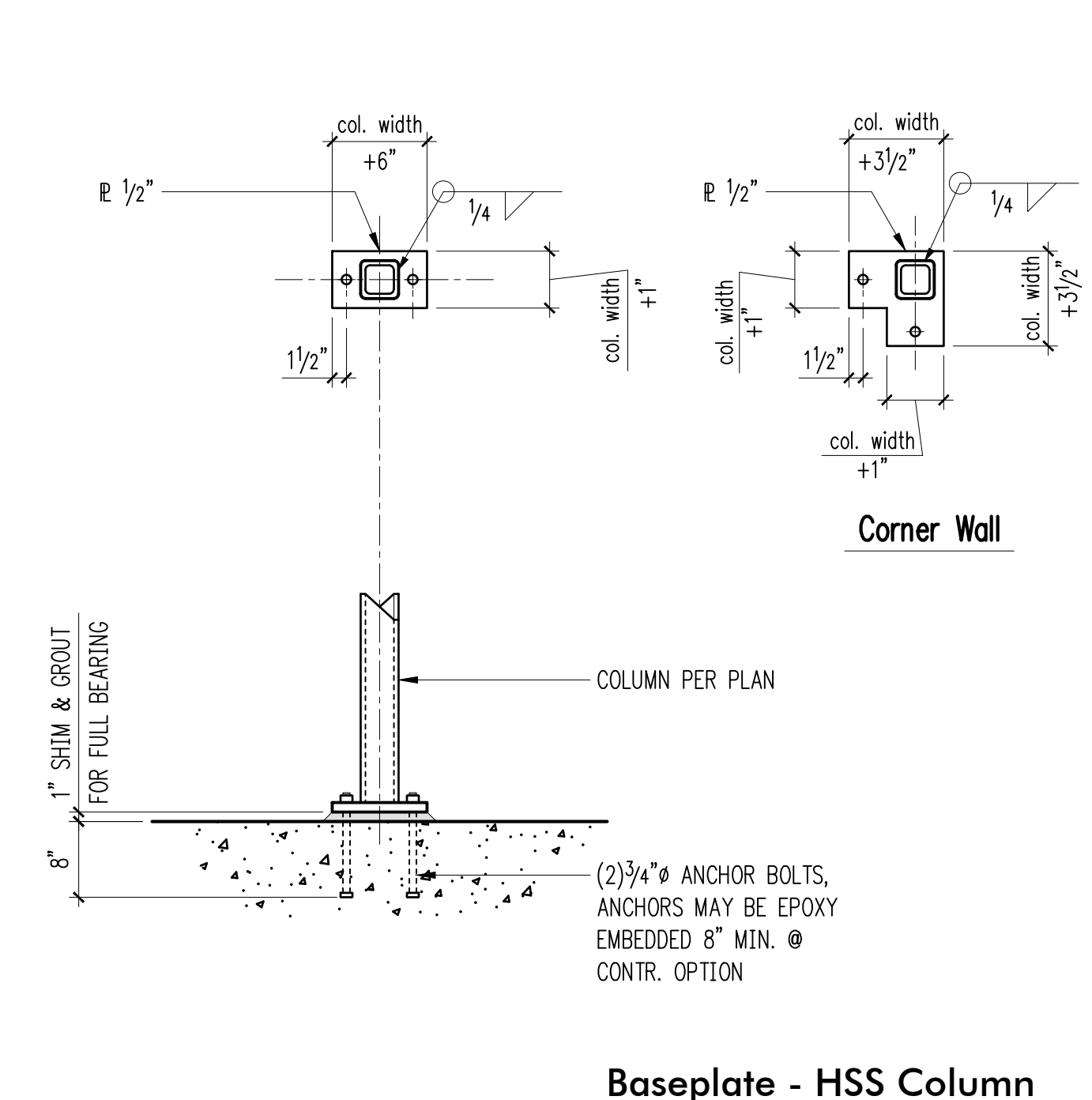
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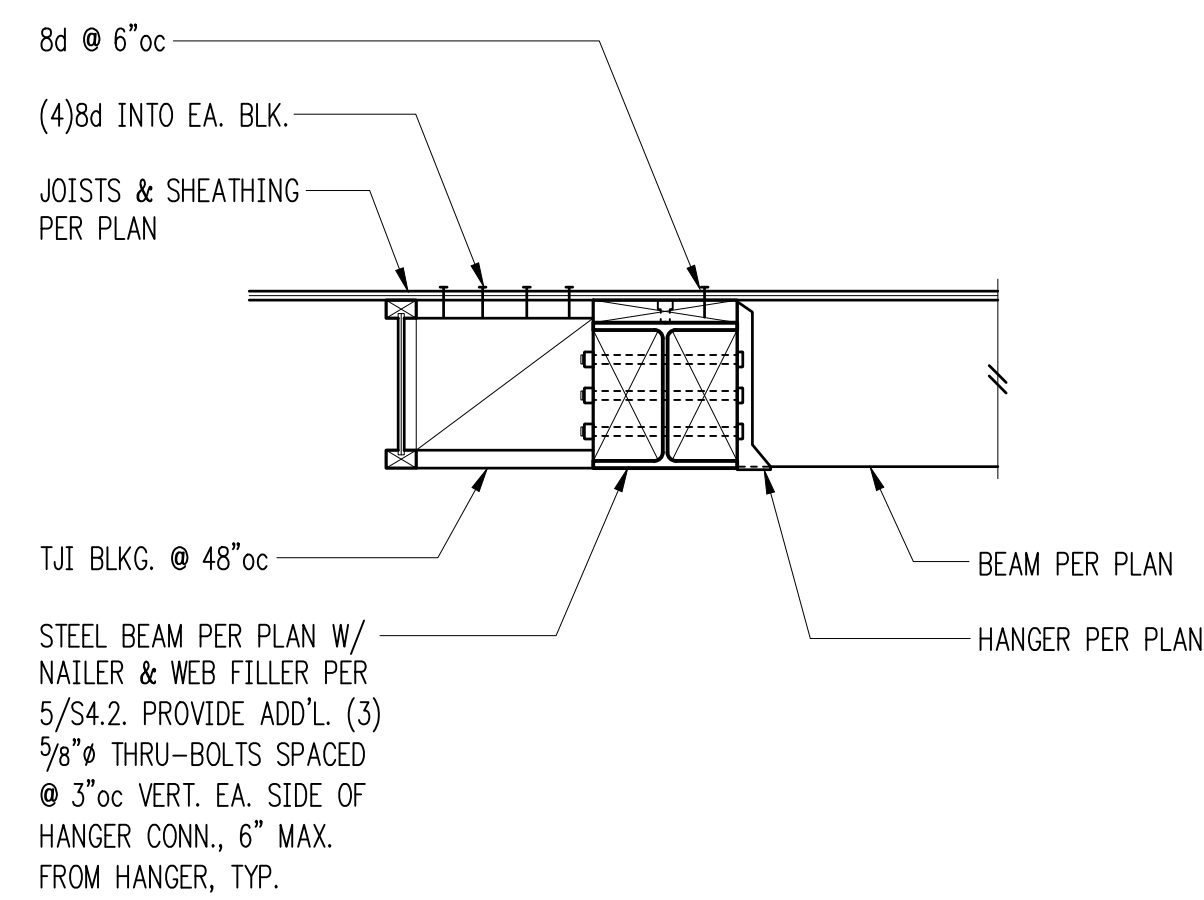
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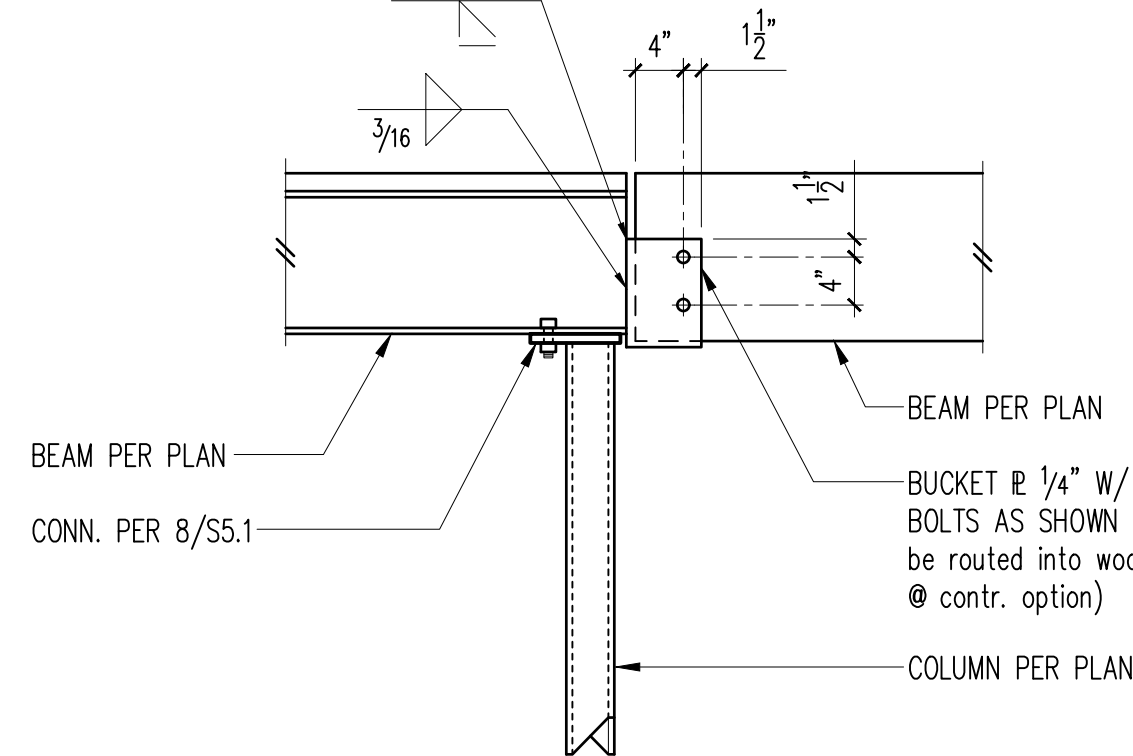
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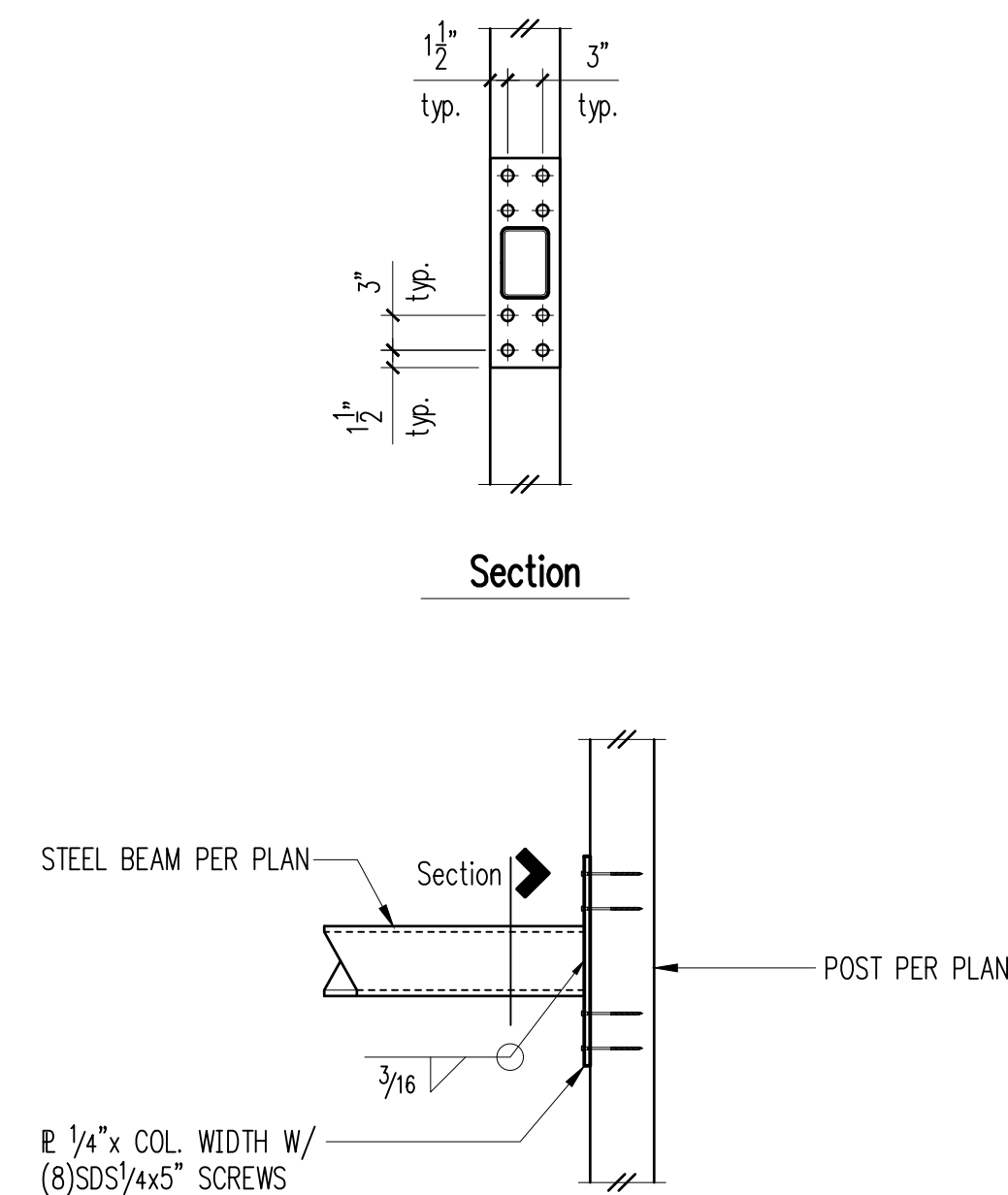
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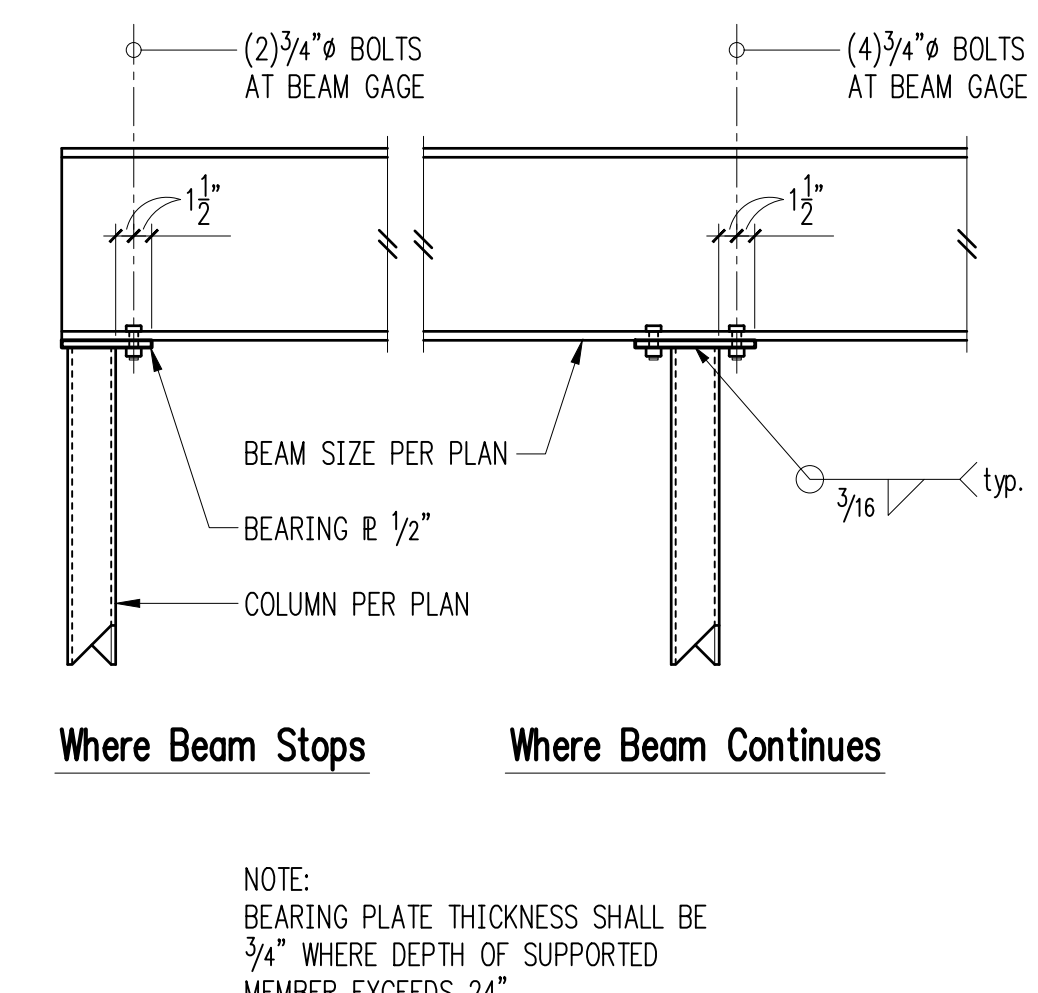
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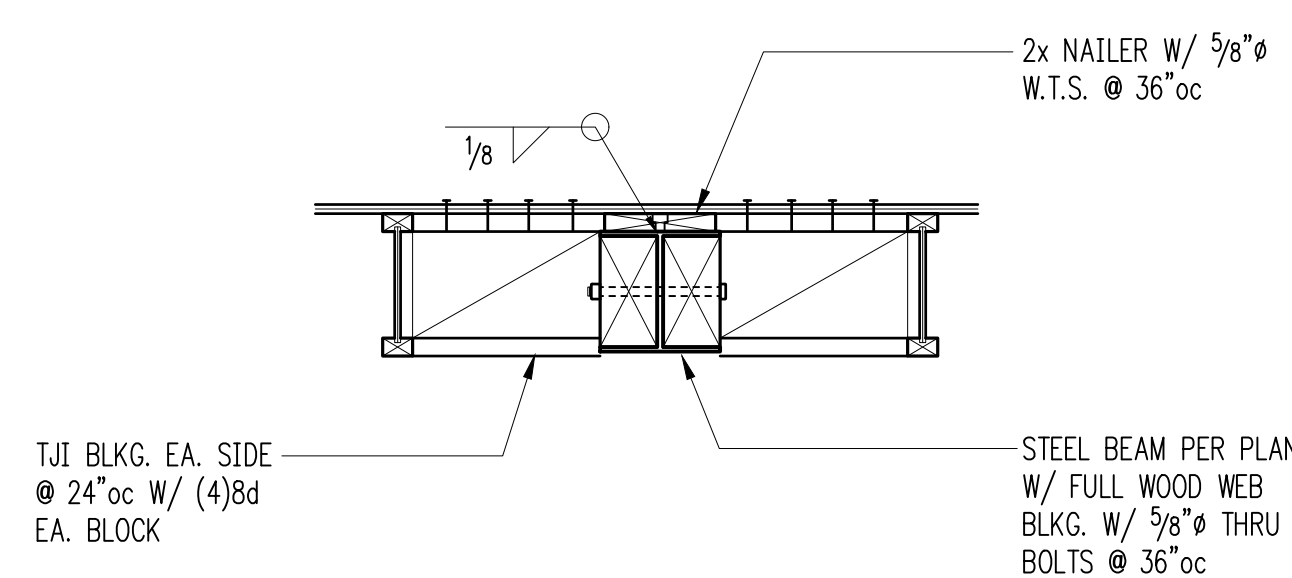
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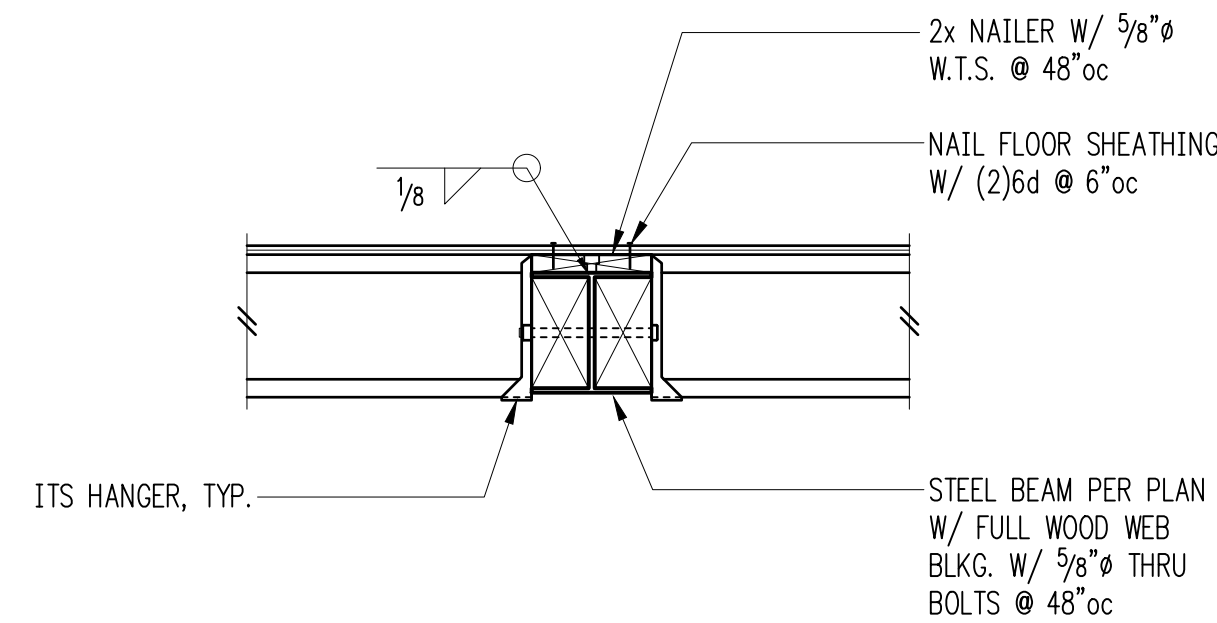
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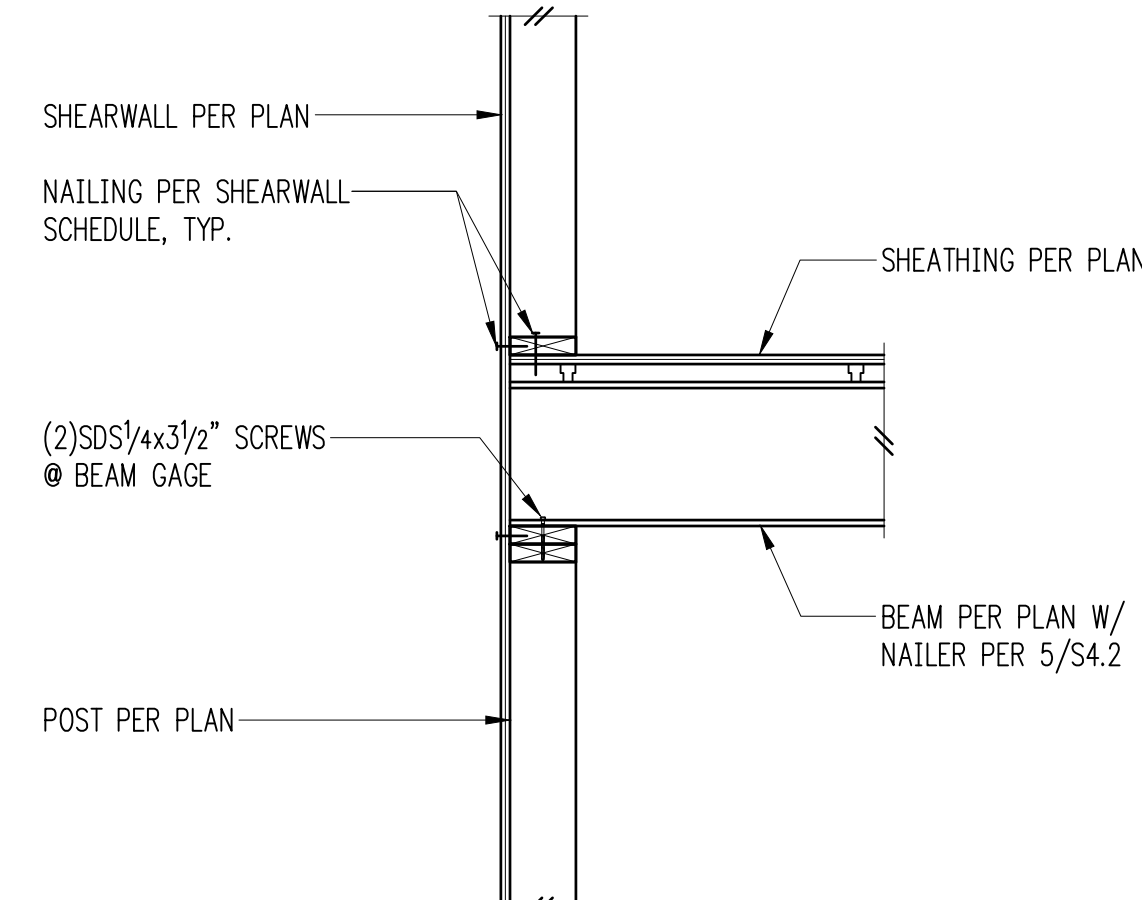
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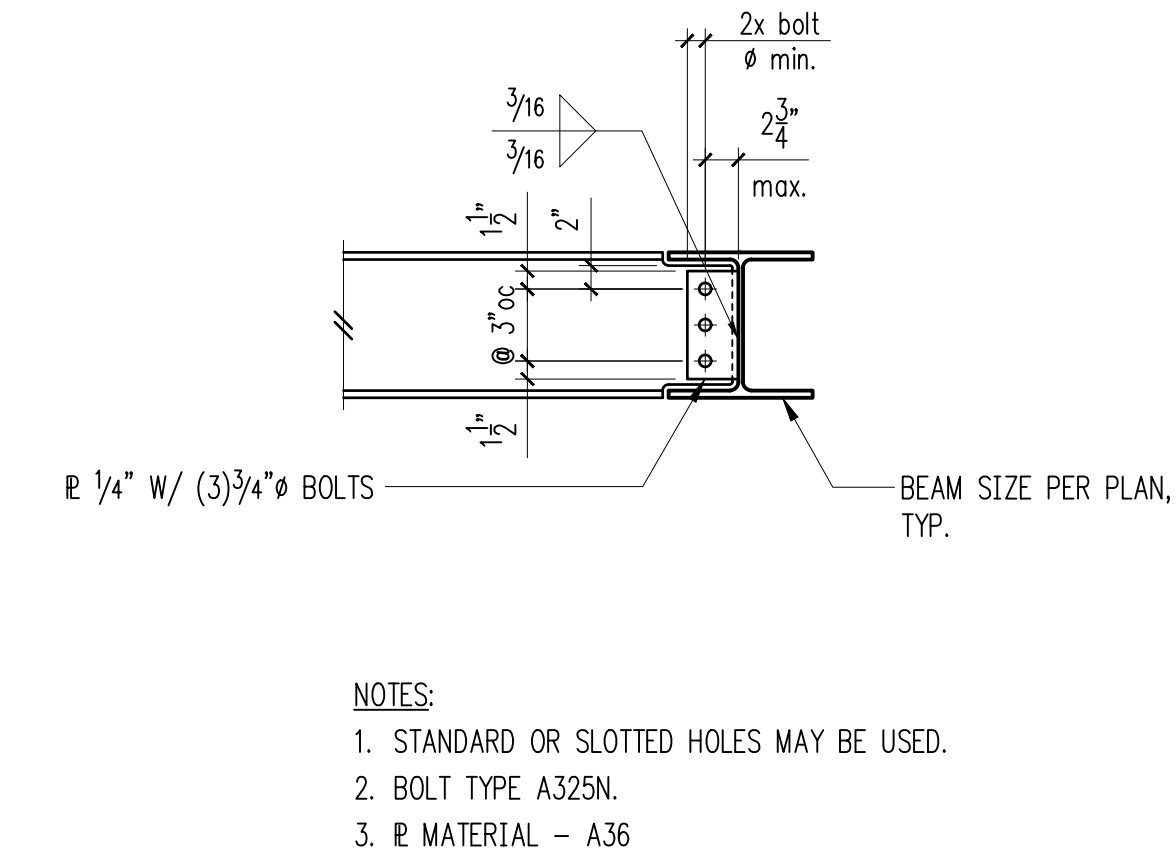
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10



11



12

REVISIONS:

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DPD:

PROJECT TITLE:
Clarkson Residence
 8163 West Mercer Way
 Mercer Island, WA 98040

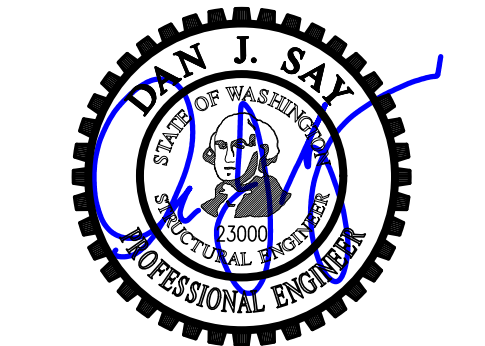
ARCHITECT:
Brandt Design Group
 66 Bell Street, Unit 1
 Seattle, WA 98121
 PH 206.239.0850

ISSUE:
65% CD Set

SHEET TITLE:
Steel Details

SCALE: 3/4" = 1'-0" U.N.O.
 DATE: June 22, 2022
 PROJECT NO: 01519-2021-11
 SHEET NO:

S5.1



DESIGN: HAA, BDM
 DRAWN: NHD
 CHECKED: BDM
 APPROVED: DJS

REVISIONS:

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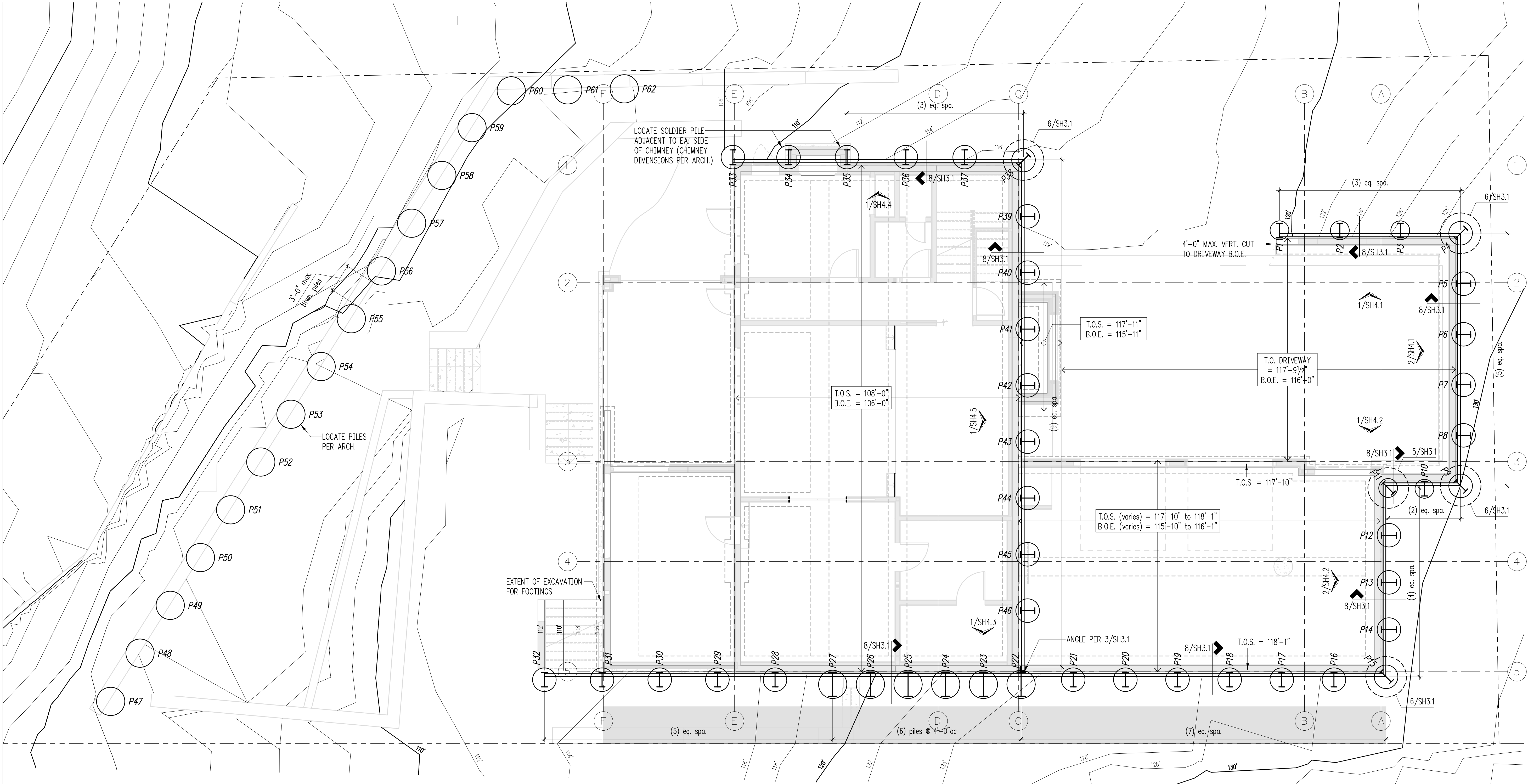
ARCHITECT:
Brandt Design Group
 66 Bell Street, Unit 1
 Seattle, WA 98121
 PH 206.239.0850

ISSUE:
65% CD Set

SHEET TITLE:
Shoring Plan

SCALE: $\frac{3}{16}'' = 1'-0''$ U.N.O.
 DATE: June 22, 2022
 PROJECT NO: 01519-2021-11
 SHEET NO:

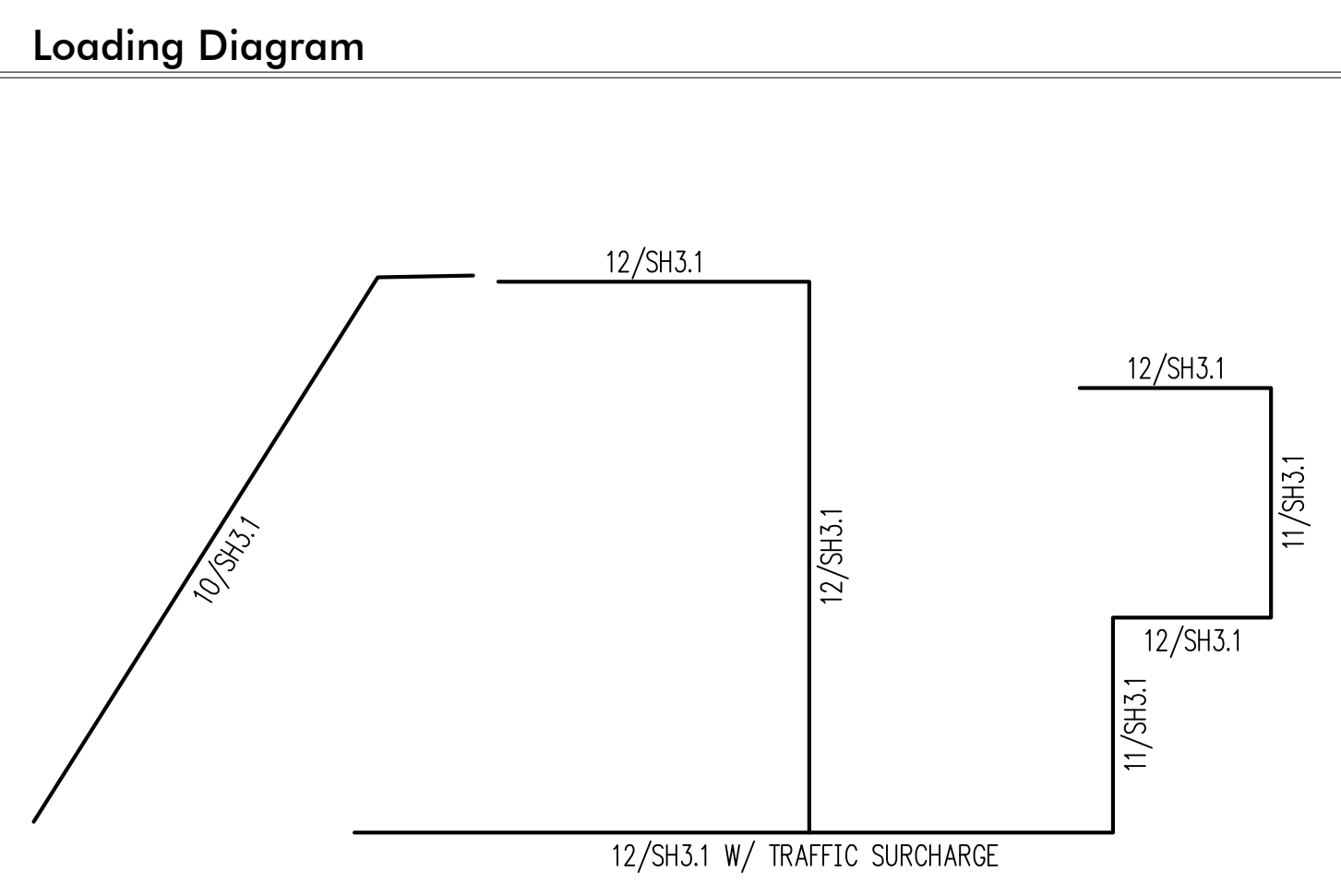
SH2.1



- Plan Notes**
- DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
 - TYPICAL TIMBER LAGGING SHALL CONSIST OF 4x12 HF #2 WITH A BASE VALUE OF FB=900 PSI UNLESS NOTED OTHERWISE ON PLAN.
 - OBSTRUCTIONS MAY BE ENCOUNTERED DURING EXCAVATION AND SHORING/PILE INSTALLATION. NOTIFY ENGINEER OF RECORD AND GEOTECHNICAL ENGINEER IF OBSTRUCTIONS PREVENT INSTALLATION OF PILES PER PLANS.
 - FOR EACH PILE UTILIZING LEAN CONCRETE, THE REQUIRED VOLUME OF GROUT SHALL BE CALCULATED PRIOR TO, AND MONITORED DURING INSTALLATION. GROUTING OPERATIONS SHALL BE STOPPED IF THE PUMPED GROUT VOLUME EXCEEDS THE CALCULATED GROUT VOLUME BY 10%.
 - REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
 - MAXIMUM GRAVITY LOAD ON SOLDIER PILE = 35k (ALLOWABLE)

Legend

	STEM WALL & FOOTING PER S2.1 & S2.2
	SHORING PILE PER SCHEDULE, THIS SHEET
	T.O.S. TOP OF SLAB
	B.O.E. BOTTOM OF EXCAVATION
	ADJACENT DRIVEWAY SURCHARGE APPLIED TO PILES P15-P31



Pile Schedule

MARK	AUGER DIA. (min.)	STEEL PILE SIZE	PERM./TEMP.	MIN. EMBED D	MAX. SHORING HEIGHT
P1-P3	24"	W18x50	PERM.	22'-0"	11'-0"
P4-P9	30"	W24x84	PERM.	28'-0"	14'-0"
P10	30"	W18x65	PERM.	24'-0"	13'-0"
P11-P14	30"	W24x84	PERM.	26'-0"	13'-0"
P15-P21	30"	W24x84	PERM.	25'-0"	13'-0"
P22-P27	42"	W33x169	PERM.	36'-0"	18'-0"
P28-P32	30"	W18x86	PERM.	22'-0"	11'-0"
P33-P37	30"	W18x50	PERM.	17'-0"	10'-0"
P38-P46	30"	W18x86	PERM.	23'-0"	13'-0"
P47-P62 (stabilization piles)	36"	W30x90	PERM.	37'-0" min. embed from top of (e) grade	2'-0" max. stickup (assumes 1'-0" of geofom)

Shoring Plan
 Scale: $\frac{3}{16}'' = 1'-0''$



DESIGN: HAA, BDM
DRAWN: NHD
CHECKED: BDM
APPROVED: DJS

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66 Bell Street, Unit 1
Seattle, WA 98121
PH 206.239.0850

ISSUE:
65% CD Set

SHEET TITLE:

Shoring Details

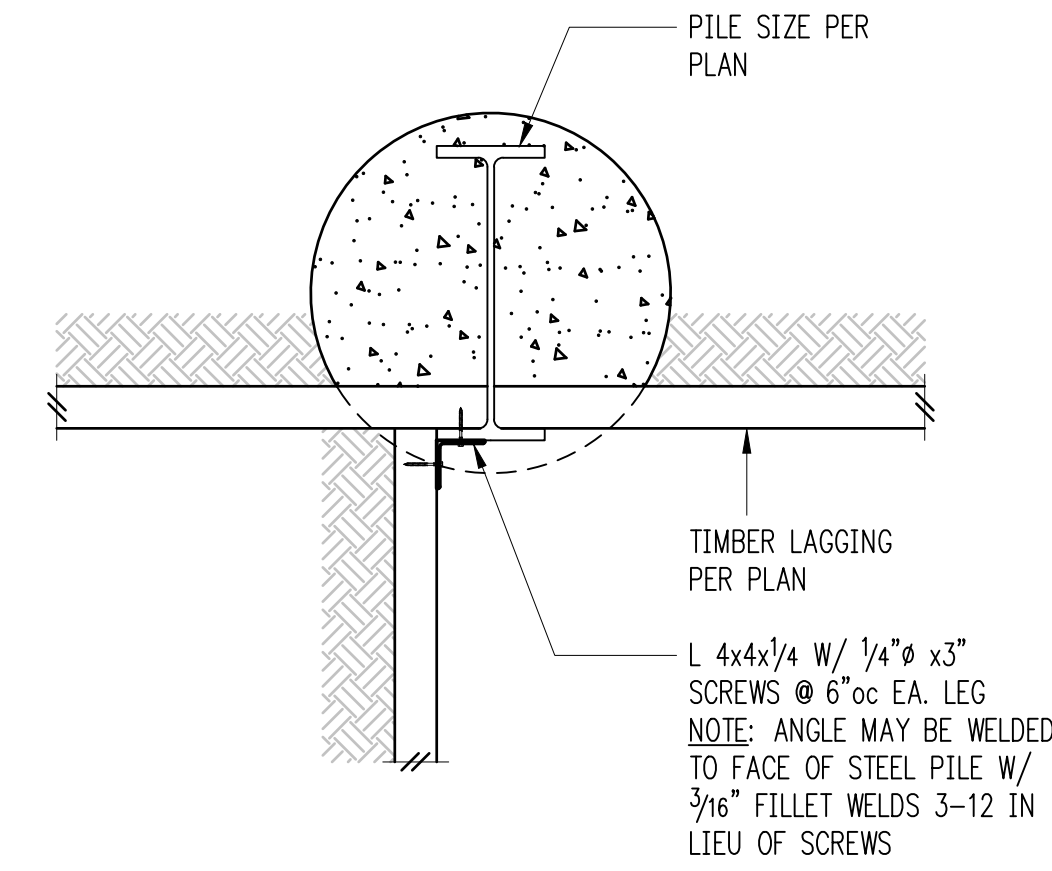
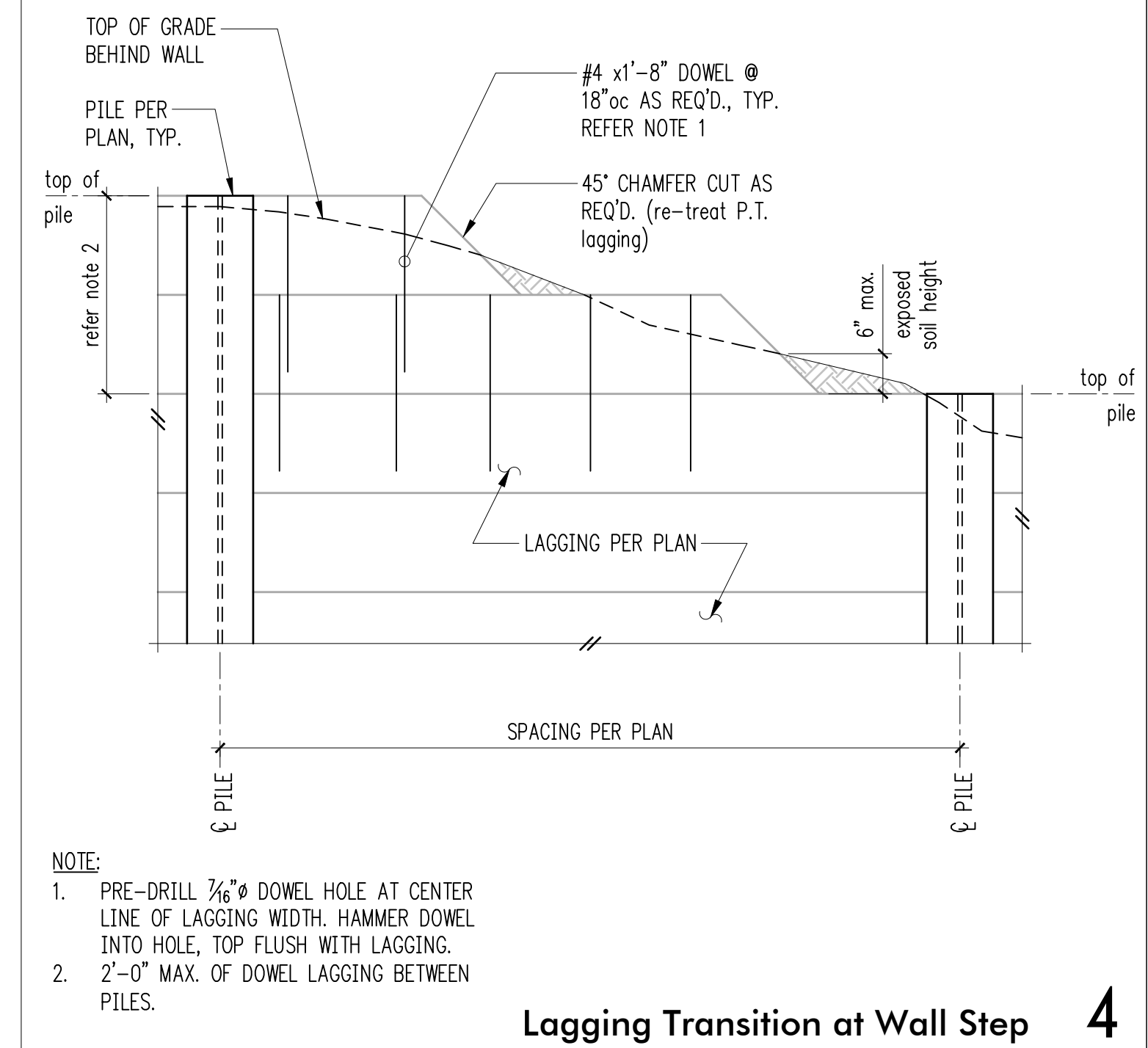
SCALE: 3/4" = 1'-0" U.N.O.

DATE: June 22, 2022

PROJECT NO: 01519-2021-11

SHEET NO:

SH3.1

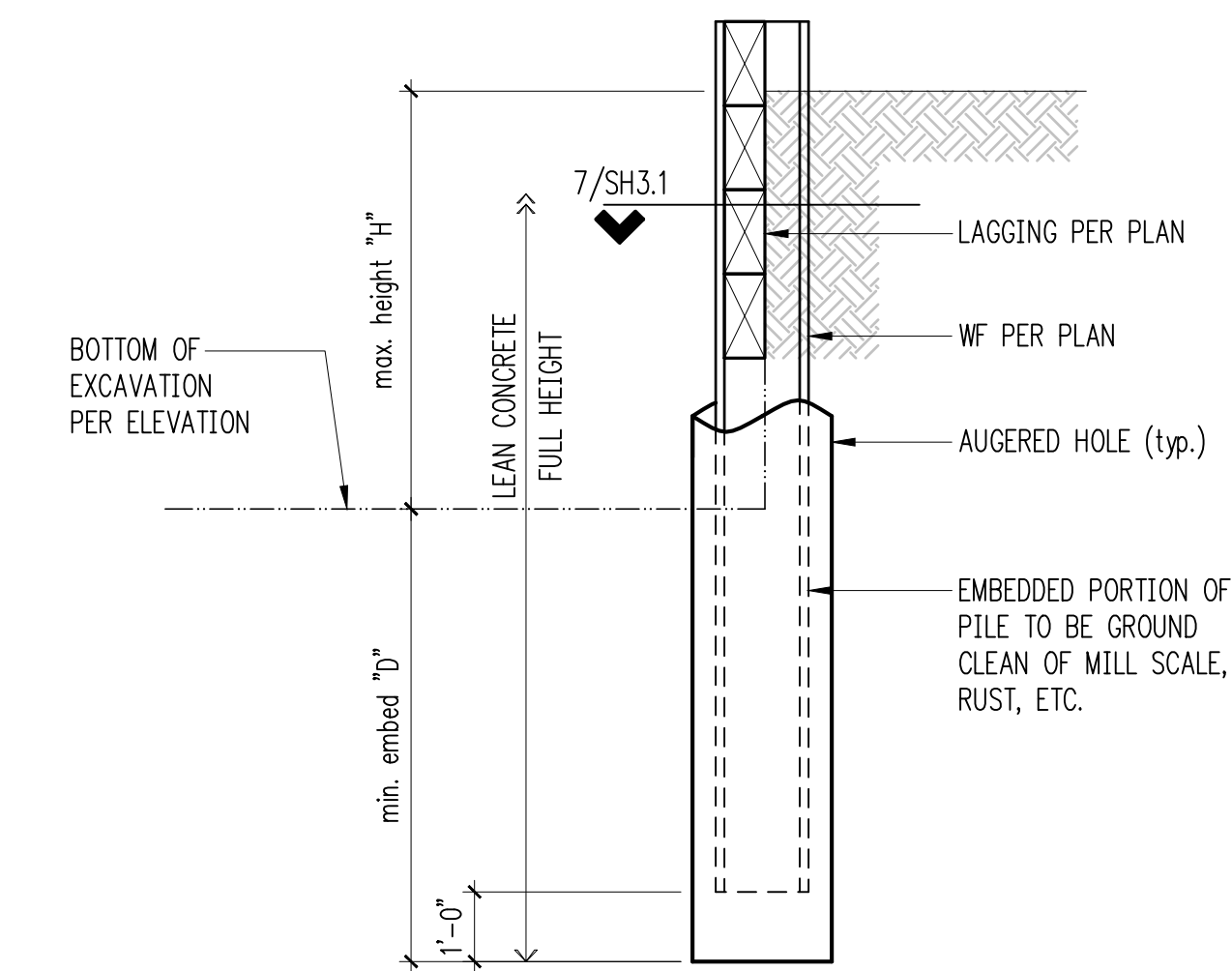
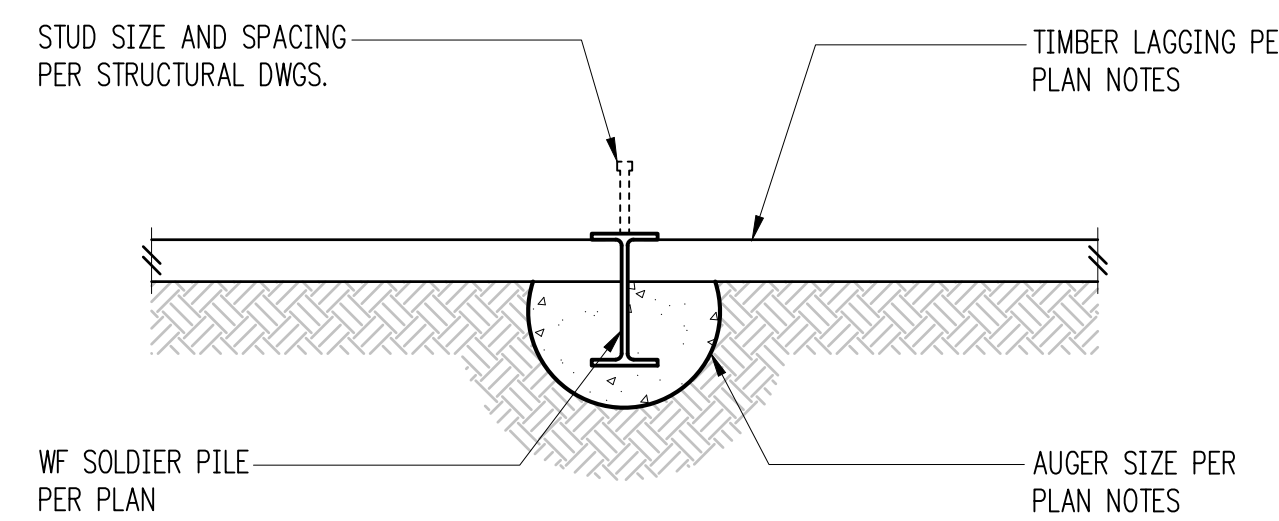
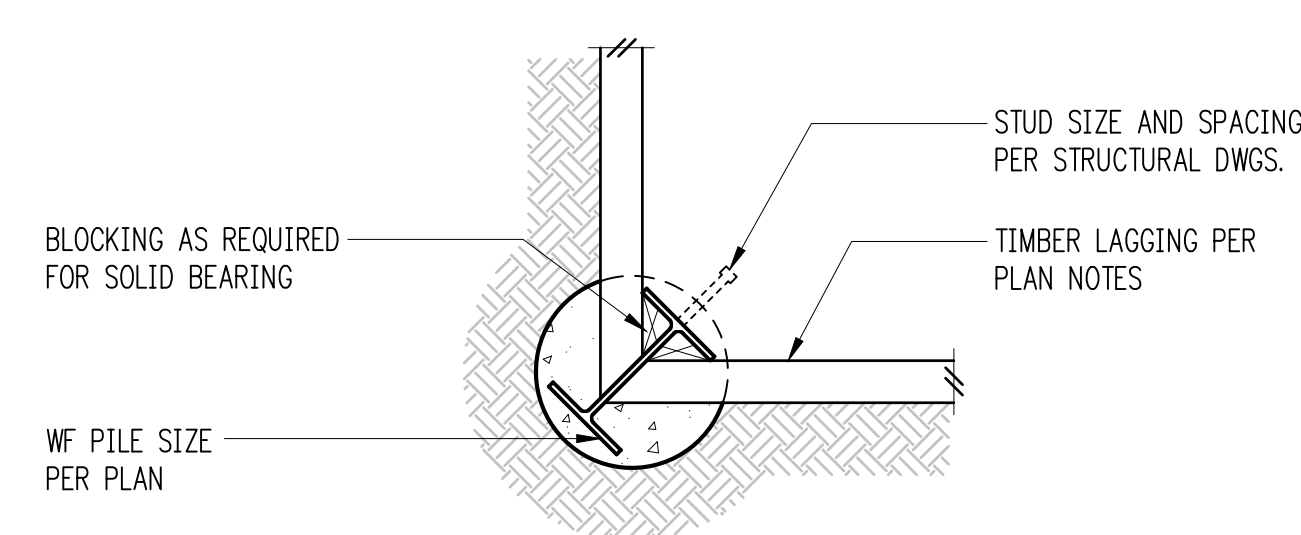
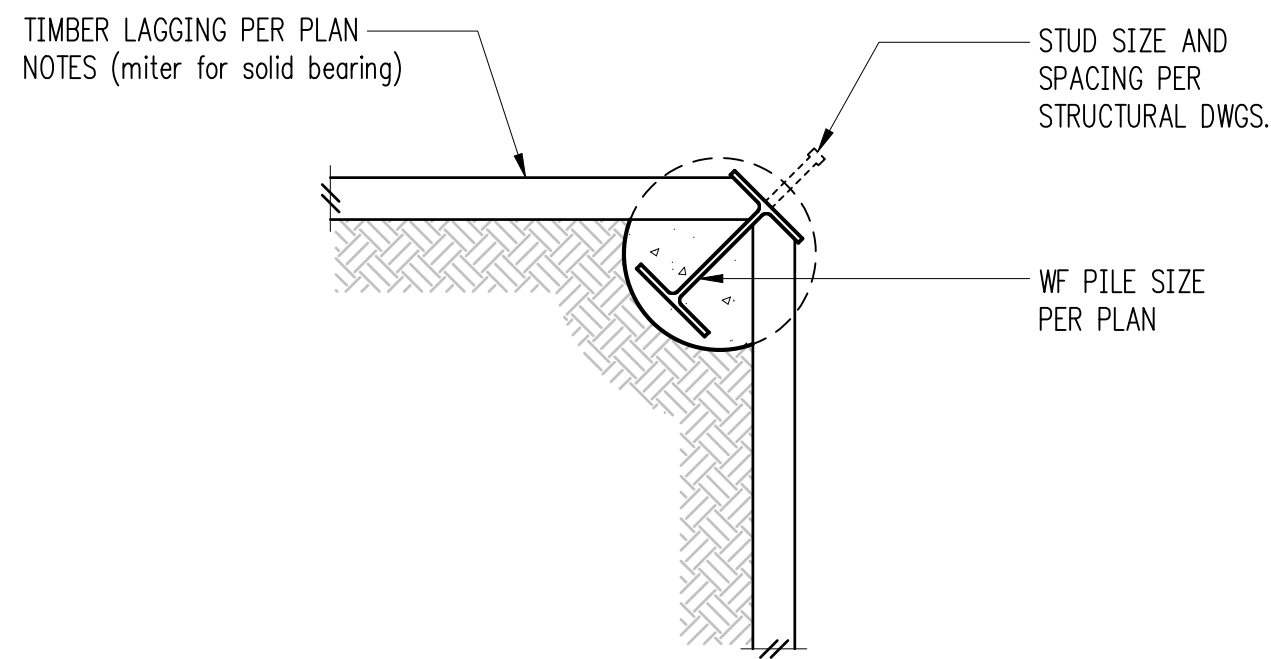


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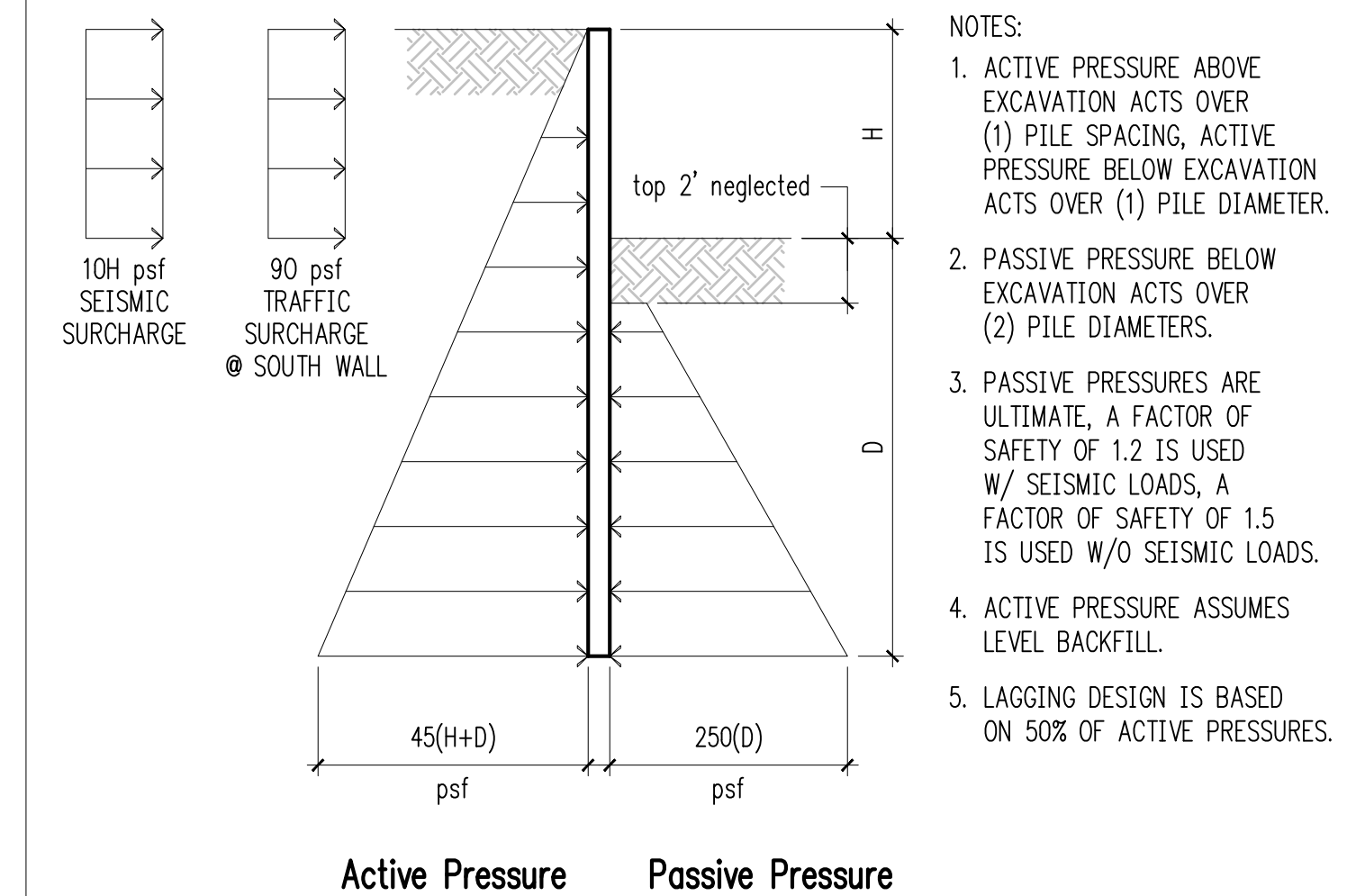
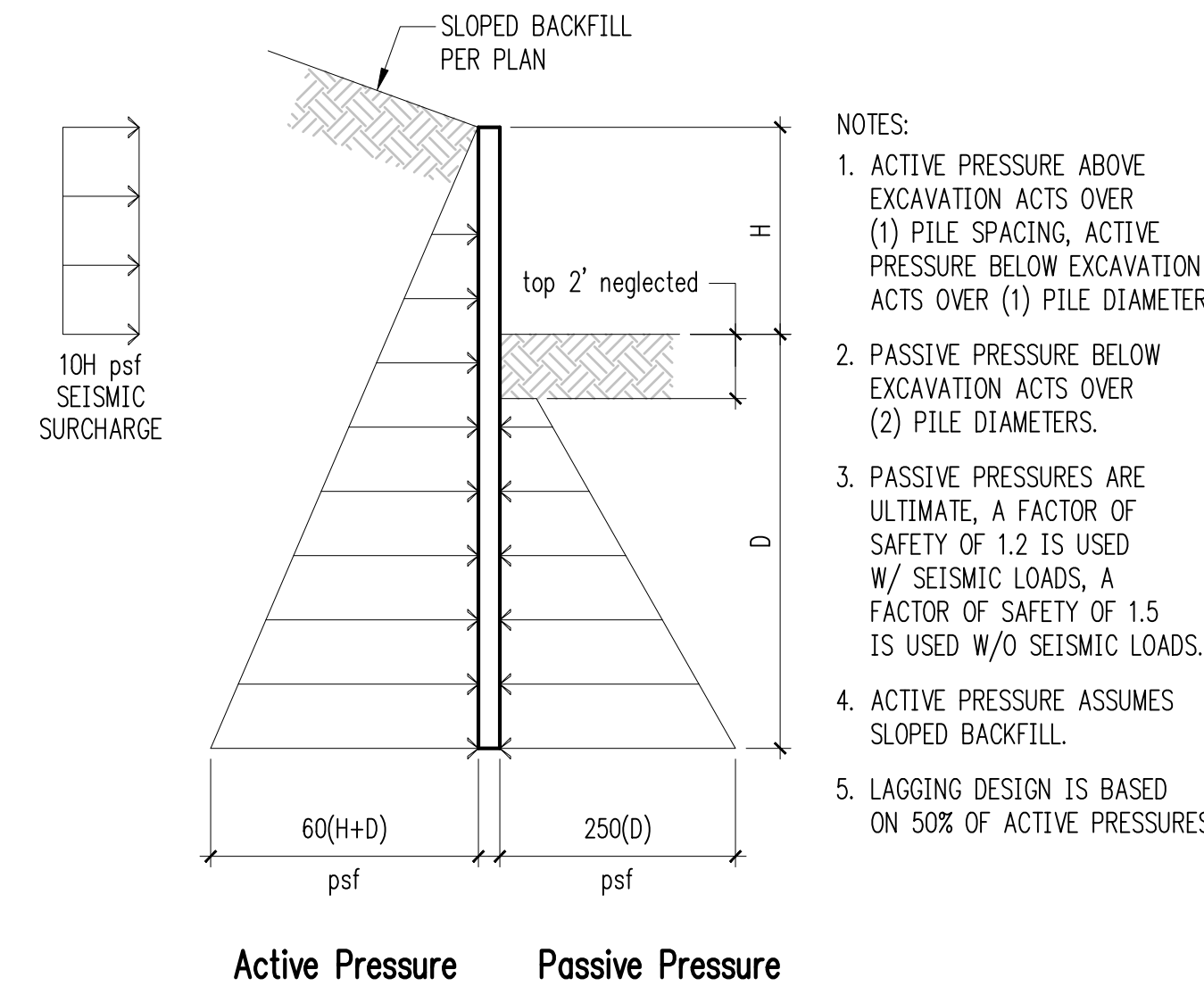
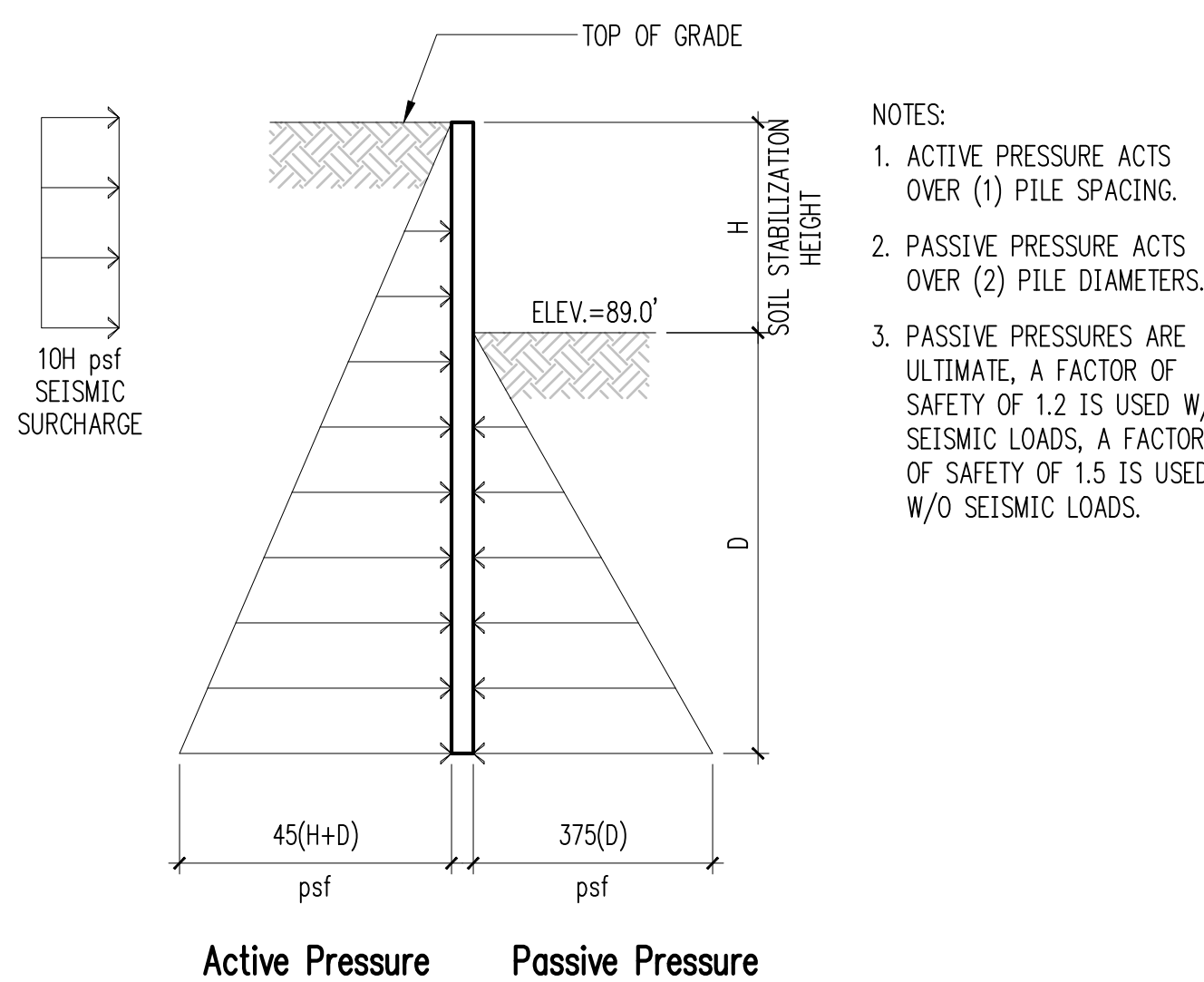


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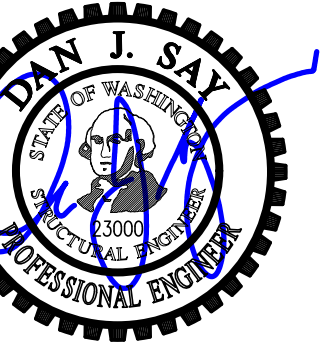


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12



DESIGN: HAA, BDM
DRAWN: NHD
CHECKED: BDM
APPROVED: DJS

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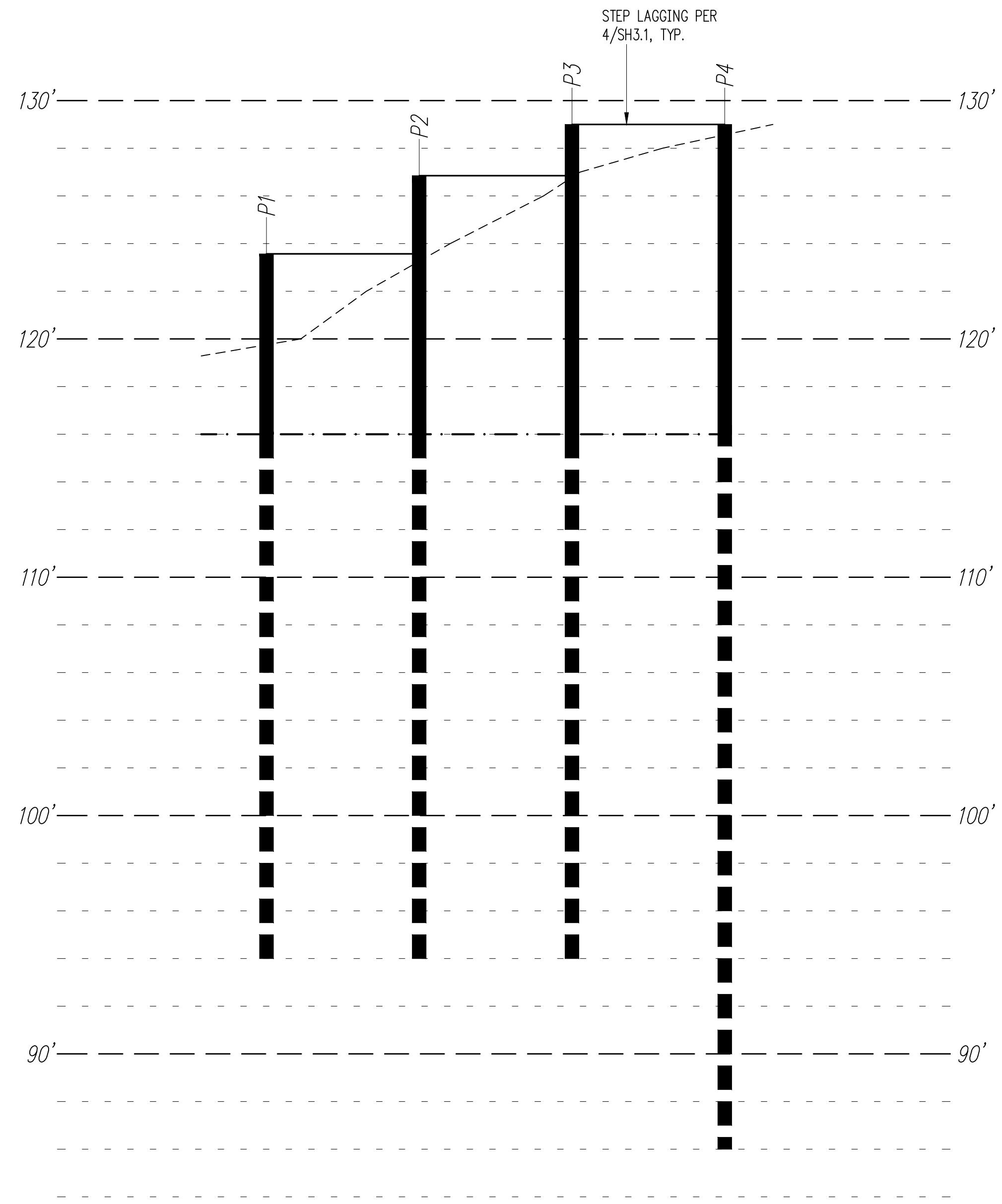
ARCHITECT:
Brandt Design Group
66 Bell Street, Unit 1
Seattle, WA 98121
PH 206.239.0850

ISSUE:
65% CD Set

SHEET TITLE:
Shoring Elevations

SCALE: 1/4" = 1'-0" U.N.O.
DATE: June 22, 2022
PROJECT NO: 01519-2021-11
SHEET NO:

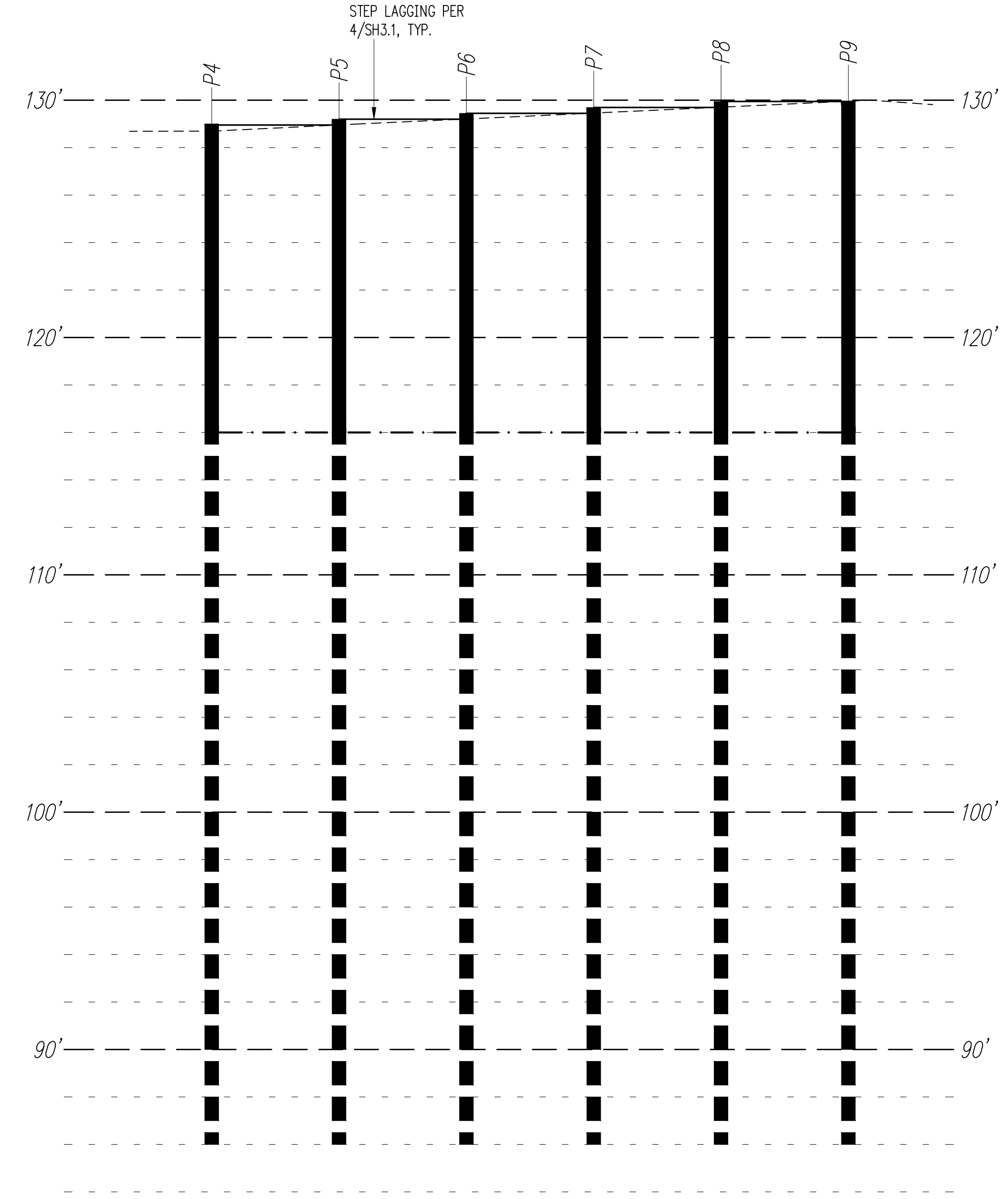
SH4.1



Legend

- APPROXIMATE TOP OF GRADE
- - - BOTTOM OF EXCAVATION
- Px— STEEL PILE PER PLAN/SCHEDULE
- 4x LAGGING

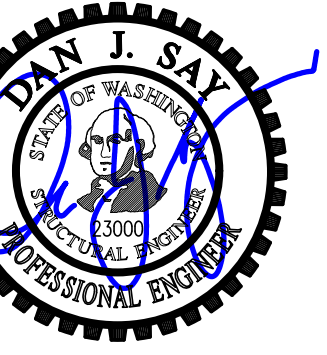
North Shoring Elevation 1
LOOKING NORTH
Scale: 1/4" = 1'-0"



Legend

- APPROXIMATE TOP OF GRADE
- - - BOTTOM OF EXCAVATION
- Px— STEEL PILE PER PLAN/SCHEDULE
- 4x LAGGING

East Shoring Elevation 2
LOOKING EAST
Scale: 1/4" = 1'-0"



DESIGN: HAA, BDM
 DRAWN: NHD
 CHECKED: BDM
 APPROVED: DJS

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 Mercer Island, WA 98040

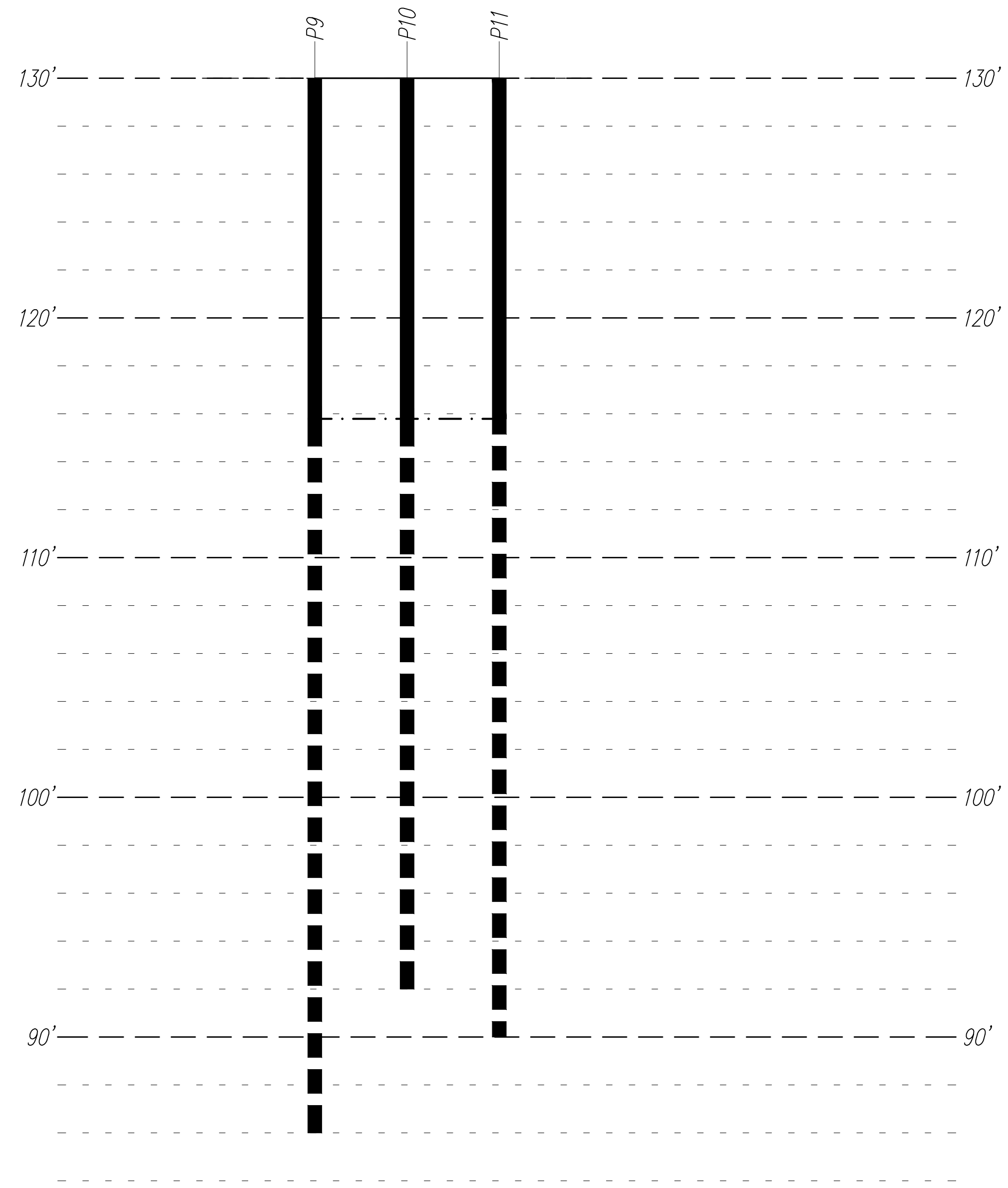
ARCHITECT:
Brandt Design Group
 66 Bell Street, Unit 1
 Seattle, WA 98121
 PH 206.239.0850

ISSUE:
65% CD Set

SHEET TITLE:
Shoring Elevations

SCALE: 1/4" = 1'-0" U.N.O.
 DATE: June 22, 2022
 PROJECT NO: 01519-2021-11
 SHEET NO:

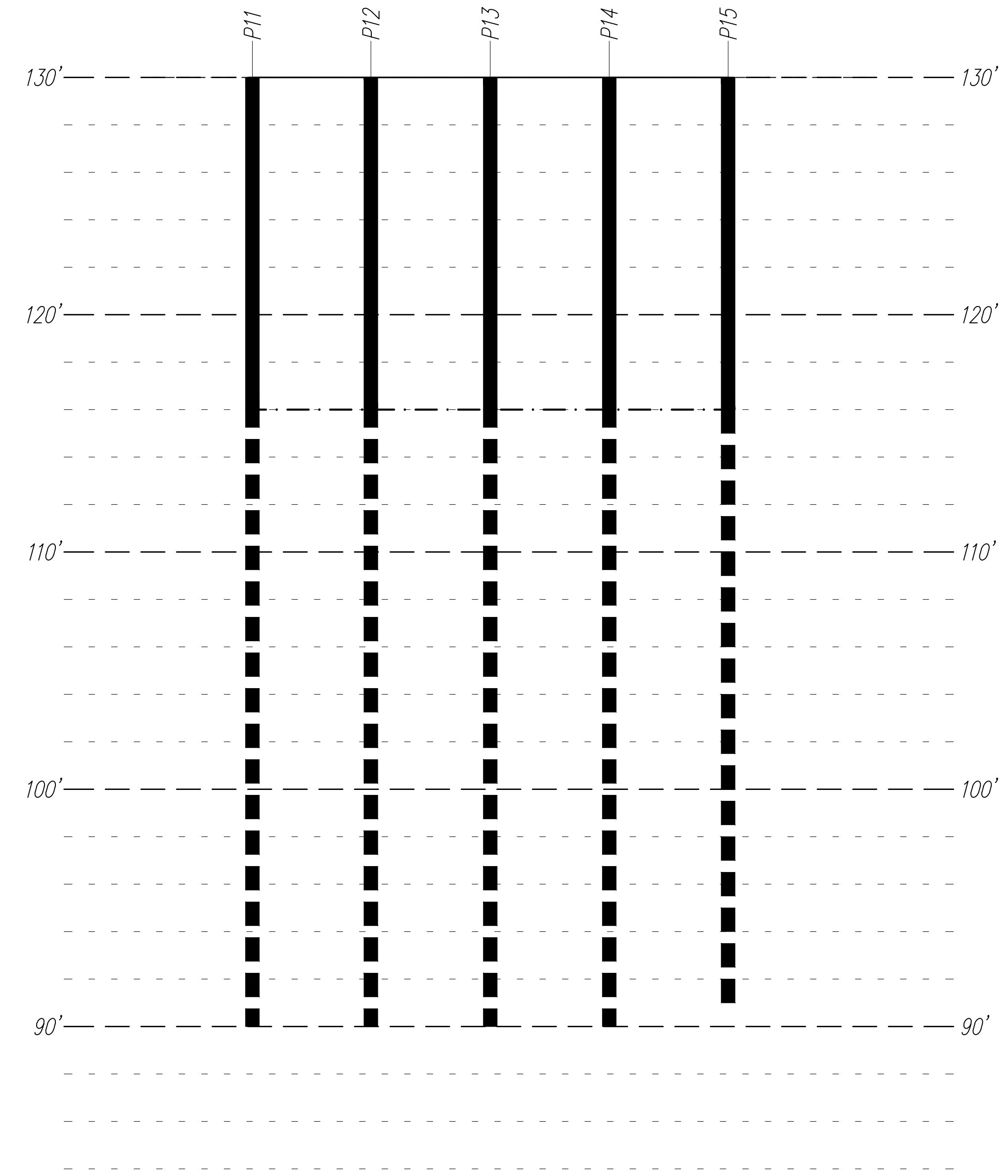
SH4.2



Legend

- APPROXIMATE TOP OF GRADE
- BOTTOM OF EXCAVATION
- Px— STEEL PILE PER PLAN/SCHEDULE
- _____ 4x LAGGING

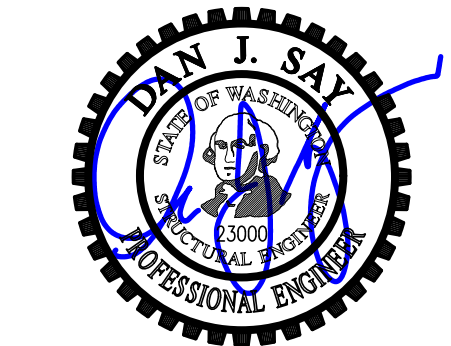
South Shoring Elevation 1
 LOOKING SOUTH
 Scale: 1/4" = 1'-0"



Legend

- APPROXIMATE TOP OF GRADE
- BOTTOM OF EXCAVATION
- Px— STEEL PILE PER PLAN/SCHEDULE
- _____ 4x LAGGING

East Shoring Elevation 2
 LOOKING EAST
 Scale: 1/4" = 1'-0"



DESIGN: HAA, BDM
 DRAWN: NHD
 CHECKED: BDM
 APPROVED: DJS

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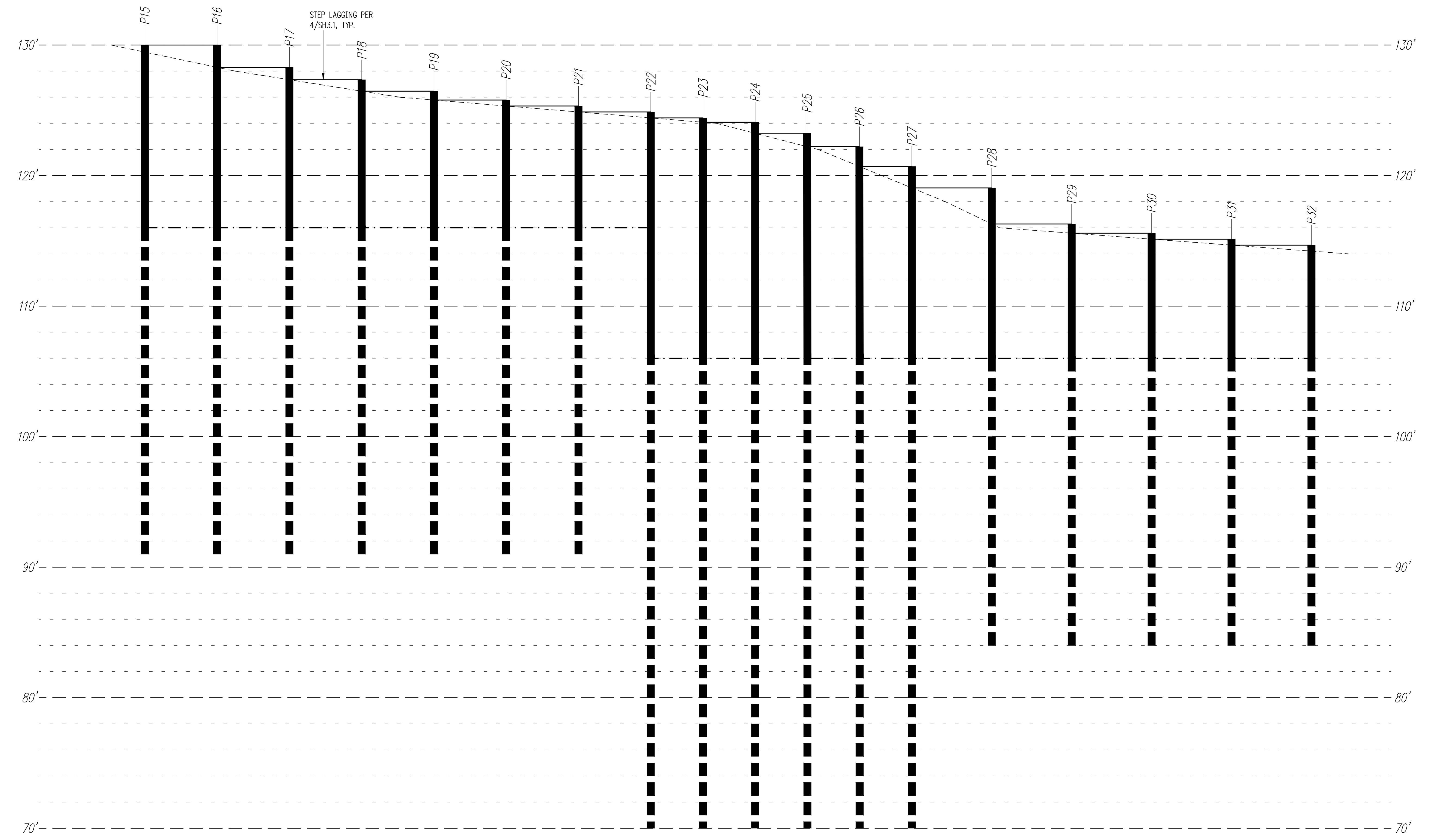
ARCHITECT:
Brandt Design Group
 66 Bell Street, Unit 1
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ISSUE:
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SHEET TITLE:
Shoring Elevations

SCALE: 1/4" = 1'-0" U.N.O.
 DATE: June 22, 2022
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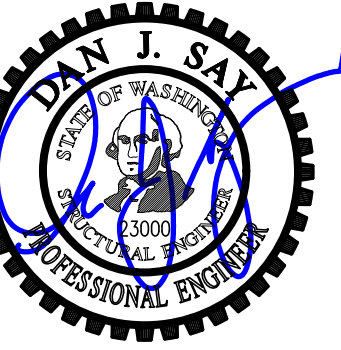
SH4.3



Legend

-----	APPROXIMATE TOP OF GRADE
— · — · —	BOTTOM OF EXCAVATION
—Px—	STEEL PILE PER PLAN/SCHEDULE
—	4x LAGGING

South Shoring Elevation ①
 LOOKING SOUTH
 Scale: 1/4" = 1'-0"



DESIGN: HAA, BDM
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CHECKED: BDM
APPROVED: DJS

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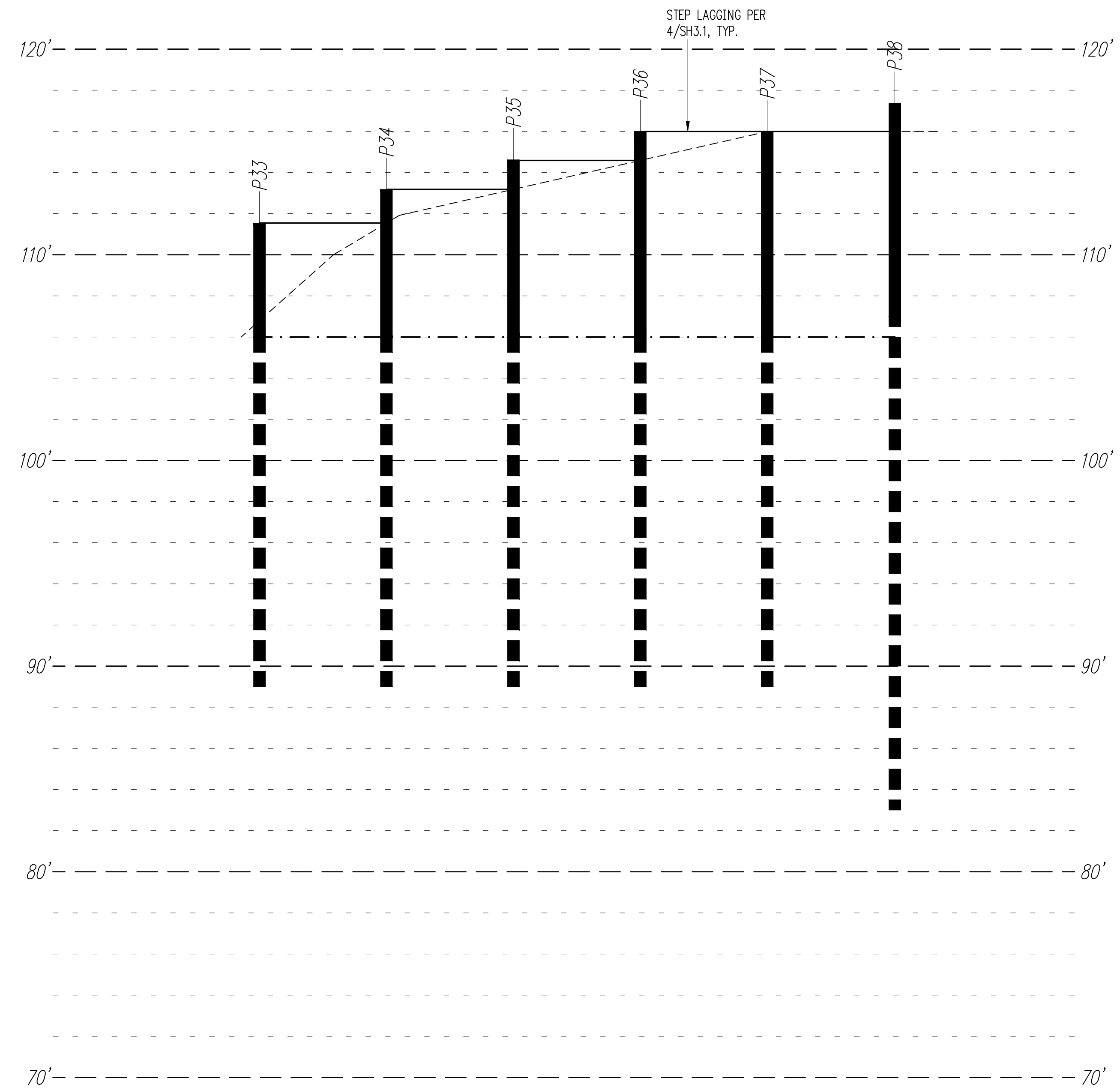
ARCHITECT:
Brandt Design Group
66 Bell Street, Unit 1
Seattle, WA 98121
PH 206.239.0850

ISSUE:
65% CD Set

SHEET TITLE:
**Shoring
Elevations**

SCALE: 1/4" = 1'-0" U.N.O.
DATE: June 22, 2022
PROJECT NO: 01519-2021-11
SHEET NO:

SH4.4



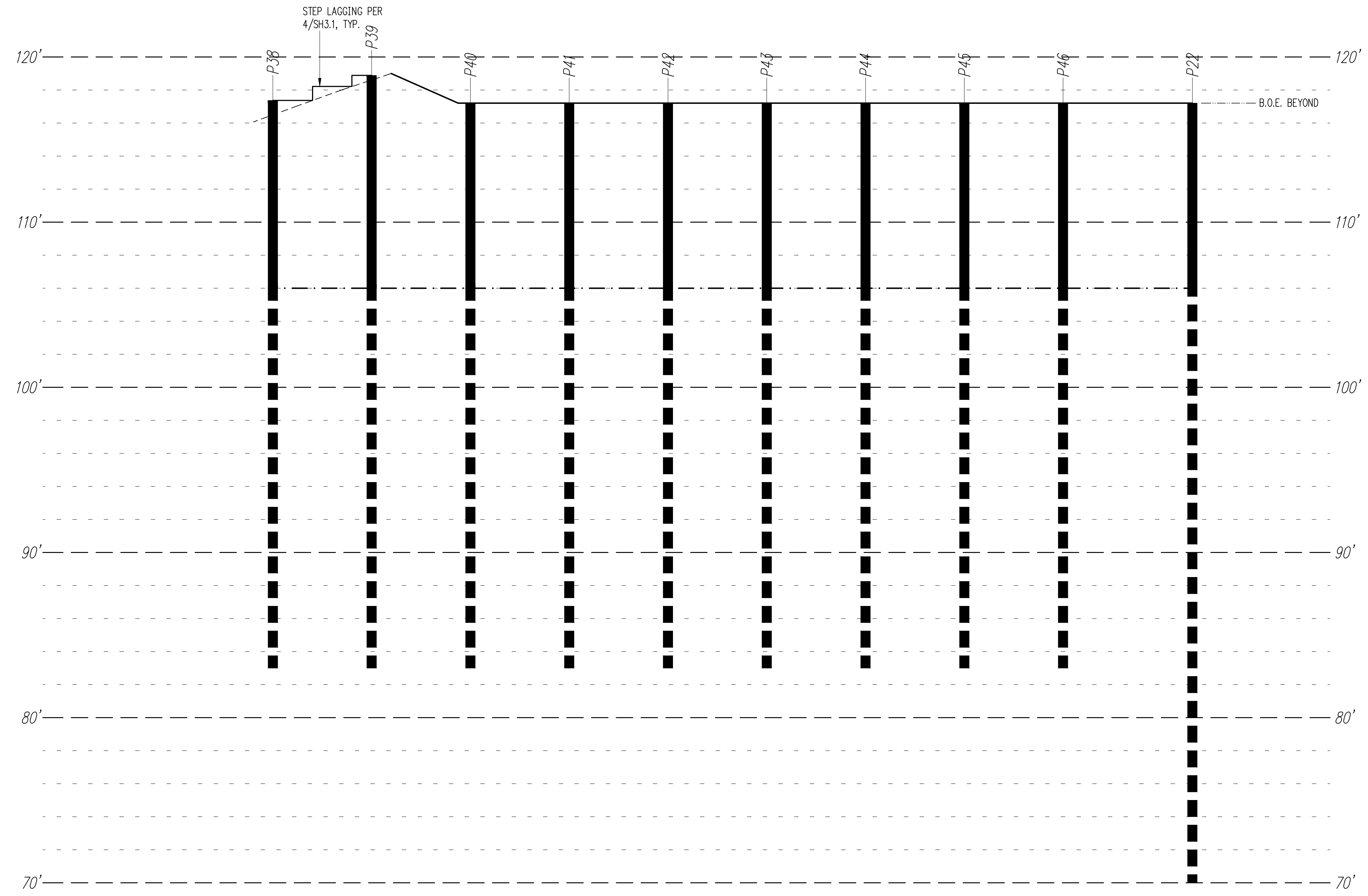
Legend

-----	APPROXIMATE TOP OF GRADE
— · —	BOTTOM OF EXCAVATION
—Px—	STEEL PILE PER PLAN/SCHEDULE
—	4x LAGGING

North Shoring Elevation

LOOKING NORTH
Scale: 1/4" = 1'-0"

1



- Legend**
- APPROXIMATE TOP OF GRADE
 - . - - BOTTOM OF EXCAVATION
 - Px — STEEL PILE PER PLAN/SCHEDULE
 - 4x LAGGING

East Shoring Elevation ①
 LOOKING EAST
 Scale: 1/4" = 1'-0"



DESIGN: HAA, BDM
 DRAWN: NHD
 CHECKED: BDM
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ISSUE:
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SH4.5