

GENERAL NOTES

1. CODE COMPLIANCE:
ALL WORK SHALL COMPLY WITH THE 2018 IRC, 2018 IMC, 2018 IFCC, 2018 UPC, 2018 IFUC, 2018 IMC, 2018 NEC, 2018 INTERNATIONAL ENERGY CONSERVATION CODE WITH WASHINGTON STATE AMENDMENTS, 2009 ICC A117.1, AND WITH ALL LOCAL CODES AND ORDINANCES.

2. DIMENSIONS:
DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. NOTIFY THE ARCHITECT OF DISCREPANCIES. IF WORK IS NOTIFIED PRIOR TO NOTIFICATION, THE GENERAL AND SUBCONTRACTOR SHALL PROCEED AT THEIR OWN RISK. UNLESS OTHERWISE NOTED, PLAN DIMENSIONS ARE TO FACE OF STUDS OR FACE OF CONCRETE WALLS. FACE OF STONE VENEER LIES 6" +/- OUTSIDE THE FACE OF FRAMING. INTERIOR PLAN DIMENSIONS ARE TO FACE OF STUDS UNLESS OTHERWISE NOTED. VERIFY ALL ROUGH-IN DIMENSIONS FOR WINDOWS, DOORS, PLUMBING, ELECTRICAL FIXTURES AND APPLIANCES PRIOR TO COMMITMENT OF WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES OF DIMENSIONAL TOLERANCES REQUIRED.

3. DOCUMENT REVIEW/VERIFICATION:
CONSULT WITH ARCHITECT REGARDING ANY SUSPECTED ERRORS, OMISSIONS, OR CHANGES ON PLANS BEFORE PROCEEDING WITH THE WORK.

4. ROUGH OPENINGS/BACKING:
VERIFY SIZE AND LOCATION, AS WELL AS PROVIDE ALL OPENINGS THROUGH FLOORS AND WALLS, FURRING, CURBS, ANCHORS, INSERTS, EQUIPMENT BASES AND ROUGH BACKS/BACKING FOR SURFACE-MOUNTED ITEMS.

5. FURRING:
PROVIDE FURRING AS REQUIRED TO CONCEAL MECHANICAL AND/OR ELECTRICAL EQUIPMENT IN FINISHED AREAS. FURRING NOT SHOWN ON PLANS SHALL BE APPROVED BY ARCHITECT PRIOR TO CONSTRUCTION.

6. GRADES:
VERIFY ALL GRADES AND THEIR RELATIONSHIP TO THE BUILDING(S).

7. FLOOR LINES:
FLOOR LINE REFERS TO TOP OF CONCRETE SLAB OR TOP OF WOOD SUBFLOOR.

8. REPETITIVE FEATURES:
OFTEN DRAWN ONLY ONCE AND SHALL BE PROVIDED AS IF FULLY DRAWN.

9. DOORS:
DOORS NOT DIMENSIONALLY LOCATED SHALL BE 6" FROM STUD FACE TO EDGE OF DOOR. ROUGH OPENING OR CENTERED BETWEEN WALLS AS SHOWN.

10. WOOD MEMBERS IN CONTACT WITH CONCRETE AND/OR EXPOSED TO WEATHER:
TO BE PRESSURE TREATED. TYPICAL PROVIDE PRESSURE TREATED SILL PLATE IF FINISH GRADE IS WITHIN 8" TYPICAL.

11. FRAMING:
ALL NEW INTERIOR FRAME PARTITIONS TO BE 2X4 @ 16" O.C. & ALL NEW EXTERIOR FRAME PARTITIONS TO BE 2X6 @ 16" O.C. UNLESS OTHERWISE NOTED. VERIFY W/ STRUCTURAL DRAWINGS. EXISTING EXTERIOR WALLS ARE 2X4 STUDS @ 16" O.C. AND ARE TO REMAIN. NEW INTERMEDIATE FRAMING AT T.O. & B.O. RUN. 4) AT OPENINGS AROUND VENTS, PIPES, ETC. AT CEILING AND FLOOR LEVEL.

12. VENTILATION:
VENT ALL BATHROOM FANS, LAUNDRY FANS, RANGE HOODS AND DRYERS TO OUTSIDE ATMOSPHERE. BATHROOM/UTILITY ROOM FANS SHALL BE CAPABLE OF 5 AIR CHANGES PER HOUR AND SHALL BE VENTED DIRECTLY TO THE OUTSIDE THROUGH SMOOTH, RIGID, NON-CORROSIVE METAL, 24 GA. DUCTWORK. FLEX DUCTING IS NOT ALLOWED. W/SEC R402.4.1.2 REQUIRES THE DWELLING UNIT TO BE TESTED AND VERIFIED AS HAVING AN AIR LEAKAGE RATE NOT EXCEEDING 5 AIR CHANGES PER HOUR. TESTING MUST BE CONDUCTED WITH A BLOWER DOOR AT A PRESSURE OF 0.2 NEW CONSTRUCTION MAY BE ISOLATED FROM EXISTING STRUCTURE FOR TESTING.

13. FLUES:
FLUES TO BE LOCATED MINIMUM 2" FROM ALL COMBUSTIBLE MATERIALS.

14. DOWNSPOUTS:
LOCATE NEW DOWNSPOUTS AS SHOWN ON ROOF PLAN, FLOOR PLANS & ELEVATIONS.

15. OTHER DOCUMENTATION:
REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL, AND/OR LANDSCAPE DRAWINGS FOR ADDITIONAL DRAWINGS, NOTES, SCHEDULES, AND SYMBOLS.

16. PROTECTION:
PROTECT ALL EXISTING FINISHES AND SURFACES. ANY DAMAGE WILL BE REPAIRED WITHOUT ADDITIONAL COST TO OWNER.

17. PERMITS:
SEPARATE ELECTRICAL, MECHANICAL, AND PLUMBING PERMITS ARE REQUIRED IN ADDITION TO THE BASIC BUILDING PERMIT.

18. ROOFING:
PROVIDE NEW ROOFING TO MATCH EXISTING.

19. EXHAUST DUCTS:
PROVIDE BACKDRAFT DAMPERS AT ALL EXHAUST DUCTS. PROVIDE COMBUSTION AIR OPENINGS INTO FURNACE ROOM PER UMC 703.

20. APPLIANCES:
CLEARANCES OF UL LISTED APPLIANCES FROM COMBUSTIBLE MATERIALS SHALL BE AS SPECIFIED IN UL LISTING.

21. WATER FLOW:
SHOWER SHALL BE EQUIPPED WITH FLOW CONTROL DEVICE TO LIMIT WATER FLOW TO 2.5 GALLONS PER MINUTE.

22. SMOKE DETECTORS:
SMOKE & CARBON MONOXIDE THROUGHOUT NEW CONSTRUCTION. NFPA 72 CHAPTER 29 MONITORED FIRE ALARM SYSTEM PER COMI STANDARDS. SEPARATE PERMIT REQUIRED.

23. FIREBLOCKING:
FIREBLOCKING SHALL BE PROVIDED IN WOOD-FRAMED CONSTRUCTION PER 2018 IRC SECTION R302.11.1) IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS. SPECIFICALLY VERTICALLY @ CEILING AND FLOOR LEVELS, AND HORIZONTALLY @ INTERVALS NOT EXCEEDING 10 FEET. 2) AT INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES. 3) IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT T.O. & B.O. RUN. 4) AT OPENINGS AROUND VENTS, PIPES, ETC. AT CEILING AND FLOOR LEVEL.

24. ADDITIONAL FIRE CODE ALTERNATES:
INSTALLATION OF 1 1/2" RATED GLASS IN ALL AREAS. PROVIDE SOLID CORE OR FIRE RATED DOORS.

ENERGY NOTES

CLIMATIC ZONE: ZONE #4C-MARINE

THERMAL STANDARDS FOR OPENINGS: UNLIMITED OPTION

CODE: 2018 W.S.E.C. & 2018 IRC, WAC 51-11R

SPACE HEAT TYPE: NATURAL GAS, FORCED AIR SYSTEM

INSULATION VALUES, PRESCRIPTIVE METHOD

WALLS:	R-11
FLAT ATTICS/CEILINGS:	R-49
VAULTED CEILINGS:	R-38
FLOORS (OVER UNHEATED SPACES):	R-38
SLAB-ON-GRADE:	R-10

PER W/SEC R401.3, A CERTIFICATE IS REQUIRED TO BE POSTED WITHIN 3 FT OF THE ELECTRICAL PANEL; IT MUST INCLUDE THE FOLLOWING: PREDOMINANT R-VALUES, U-VALUES OF FENESTRATION, RESULTS FROM DUCT SYSTEM AND BUILDING ENVELOPE AIR LEAKAGE TESTING, AND EFFICIENCIES OF HEATING/COOLING/WATER HEATING EQUIPMENT.

AIR INFILTRATION: MANUFACTURED DOORS/WINDOWS CONFORM TO SECTION R402.4.3 OF THE WASHINGTON STATE ENERGY CODE

EXTERIOR JOINTS/OPENINGS: SEAL, CAULK, GASKET OR WEATHERSTRIP TO LIMIT AIR LEAKAGE AT EXTERIOR JOINTS AROUND WINDOW AND DOOR FRAMES, OPENINGS BETWEEN WALLS AND FOUNDATION, BETWEEN WALLS AND ROOF, OPENINGS AT PENETRATIONS OF UTILITY SERVICES AND ALL OTHER SUCH OPENINGS IN THE BUILDING ENVELOPE

MOISTURE CONTROL: WALLS: VAPOR RETARDER BONDED TO BATT INSULATION; INSTALL WITH STAPLES NOT MORE THAN 8 INCHES ON CENTER AND WITH A GAP BETWEEN AND OVER FRAMING NOT GREATER THAN 1/16 OF AN INCH. OR, VAPOR RETARDER OF ONE PERM CUP RATING (4 MIL POLYETHYLENE)

ATTICS/CEILINGS: VAPOR RETARDER OF ONE PERM CUP RATING (4 MIL POLYETHYLENE). INSTALL CONTINUOUSLY

CRAWL SPACE: 6 MIL POLYETHYLENE

VENTILATION: ATTICS WITH LOOSE FILL: N.A. Baffle vent openings to deflect air above insulation surface enclosed JOIST OR RAFTER SPACES. PROVIDE MINIMUM OF ONE INCH CLEAR VENTED AIR SPACE ABOVE INSULATION, TAPER OR COMPRESS INSULATION AT PERIMETER TO INSURE PROPER VENTILATION, MAINTAINING MINIMUM OF R-38.

HEATING & COOLING: GAS FURNACE & AIR SOURCE HEAT PUMP

TEMP. CONTROL: FOR HEATING AND COOLING, THERMOSTAT SHALL BE CAPABLE OF BEING SET FROM 55-85 DEGREES FAHRENHEIT AND OF

OPERATING THE HEATING/COOLING SYSTEM IN SEQUENCE: THERMOSTAT TO BE AUTOMATIC DAY/NIGHT SETBACK TYPE.

DUCT INSULATION: THERMALLY INSULATE ALL PLENUMS, DUCTS AND ENCLOSURES IN ACCORDANCE WITH SECTION R403.3.1 OF THE WASHINGTON STATE ENERGY CODE.

a. ALL HEATING DUCTS IN UNCONDITIONED SPACES SHALL BE INSULATED WITH A MIN. OF R-8. ALL SEAM JOINTS SHALL BE TAPE, SEALED AND FASTENED WITH THE MINIMUM OF FASTENERS PER W/SEC.

b. DUCTS WITHIN A CONCRETE SLAB OR IN THE GROUND SHALL BE INSULATED TO R-10, WITH INSULATION DESIGNED TO BE UNDER BELOW GRADE.

LIGHTING: RECESSED LIGHTING FIXTURES INSTALLED IN BUILDING ENVELOPE SHALL COMPLY WITH W/SEC PROVISIONS AND SHALL BE IC LISTED, A MIN. OF 75% OF PERMANENTLY INSTALLED LAMPS IN INTERIOR AND EXTERIOR LIGHTING FIXTURES MUST BE HIGH-EFFICACY LAMPS, PER W/SEC R404.1.

PIPE INSULATION: ALL HOT WATER PIPES, AND NON-RECIRCULATING COLD WATER PIPES LOCATED IN UNCONDITIONED SPACE, SHALL BE INSULATED TO R-3 MIN. PLUMBING OR MECHANICAL CANNOT DISPLACE THE REQUIRED INSULATION.

PLUMBING FIXTURES: ALL PLUMBING FIXTURES SHALL CONFORM TO ROW 19.27.170 ALL TOILETS 1.6 GPM MAX URINALS 1.0 GPF MAX SHOWERHEADS <1.75 GPM KITCHEN FAUCETS <1.75 GPM LAVATORIES <1.0 GPM

PROJECT DATA

PROJECT ADDRESS: 5300 BUTTERWORTH RD MERCER ISLAND 98040

PROPERTY TAX ID NUMBER: 865140-0020

SCOPE OF WORK: CONSTRUCTION OF NEW TWO-STORY SINGLE FAMILY RESIDENCE WITH ATTACHED GARAGE

ZONING: R-15

CONSTRUCTION TYPE: TYPE V/B

SEISMIC ZONE: 3

NUMBER OF STORIES: 2 STORIES

FIRE PROTECTION: NFPA 13R FIRE SPRINKLERS

FIRE ALARM: NFPA 72 CHAPTER 29 MONITORED FIRE ALARM SYSTEM PER COMI STANDARDS. SEPARATE PERMIT REQUIRED.

BUILDING HEIGHT: MAX. 30 FT ABOVE AVERAGE BUILDING ELEV.

GROSS FLOOR AREA: 12,000 SF OR 40 % LOT AREA, WHICHEVER IS LESS

LOT AREA: 20,076 SF

SETBACKS: FRONT: 20' SIDE: 17% LOT WIDTH, MIN. 5' REAR: 25'

PROJECT TEAM

OWNER: RYAN & ASHLEY ASDOURIAN 5300 BUTTERWORTH RD MERCER ISLAND, WA 98040 PHONE: 206-963-4718 EMAIL: RASDO@MICROSOFT.COM

ARCHITECT: STURMAN ARCHITECTS, INC. 9-103RD AVE NE SUITE 203 BELLEVUE, WA 98008 PHONE: 425-451-7003 CONTACT: BRAD STURMAN

CIVIL ENGINEER: PATRICK HARRON & ASSOCIATES, LLC 14900 INTERURBAN AVE S., SET. 279 SEATTLE, WA 98168 PHONE: 206.674.4659 CONTACT: SCHWIN CHAOSILAPAKUL

GEOTECHNICAL ENGINEER: GEOTECH CONSULTANTS, INC. 2401 10TH AVE EAST SEATTLE, WA 98102 PHONE: 425.747.5618 CONTACT: MARC MCGINNIS

STRUCTURAL ENGINEER: OG ENGINEERING SEATTLE, WA PHONE: 206.290.4608 CONTACT: OWEN GOULD

LEGAL DESCRIPTION

LOT 2, TONJA ESTATES, AS PER PLAT RECORDED IN VOLUME 77 OF PLATS, PAGE 64, RECORDS OF KING COUNTY, WASHINGTON; TOGETHER WITH THAT PORTION OF LOT 3 OF SAID PLAT DESCRIBED AS FOLLOWS: BEGINNING AT THE NORTHEAST CORNER OF SAID LOT 3, THENCE SOUTH 1°35'04" WEST ALONG THE EASTERLY LINE OF LOT 3, A DISTANCE OF 75.31 FEET; THENCE NORTH 10°03'02" WEST A DISTANCE OF 74.73 FEET; THENCE NORTH 76°21'57" WEST A DISTANCE OF 10.15 FEET, MORE OR LESS, TO THE NORTH LINE OF SAID LOT 3, THENCE SOUTH 88°24'56" EAST ALONG SAID NORTH LINE 25.00 FEET TO THE POINT OF BEGINNING; TOGETHER WITH AN UNDIVIDED 1/17 TH INTEREST IN LOT 1 OF SAID PLAT.

DUTY OF COOPERATION

RELEASE AND ACCEPTANCE OF THESE DOCUMENTS INDICATES COOPERATION AMONG THE OWNER, CONTRACTOR, AND STURMAN ARCHITECTS. ANY ERRORS, OMISSIONS, OR DISCREPANCIES DISCOVERED IN THE USE OF THESE DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO STURMAN ARCHITECTS. FAILURE TO DO SO WILL RELIEVE STURMAN ARCHITECTS FROM ANY RESPONSIBILITY FOR THE CONSEQUENCES.

ANY DEVIATION FROM THESE DOCUMENTS WITHOUT THE CONSENT OF STURMAN ARCHITECTS IS UNAUTHORIZED. FAILURE TO OBSERVE THESE PROCEDURES SHALL RELIEVE STURMAN ARCHITECTS OF RESPONSIBILITY FOR ALL CONSEQUENCES ARISING FROM SUCH ACTIONS.

SHEET INDEX

A1.0	COVER SHEET - GENERAL & ENERGY NOTES, LEGAL PROJECT DATA, CUT-FILL CALC, INDEX, SITE PLAN FULL SITE PLAN
A1.1	SURVEY
C1.0	COVER SHEET AND SITE PLAN
A2.0	DEMOS & TESC PLAN
C2.1	TESC DETAILS
C3.0	GRADING & UTILITY PLAN
C3.1	STORM DRAINAGE PLAN
C3.2	STORM DRAINAGE DETAILS
C3.3	UTILITY DETAILS
A2.0	MAIN FLOOR PLAN
A2.1	UPPER FLOOR
A2.2	ROOF PLAN
A3.0	EXTERIOR ELEVATIONS
A3.1	EXTERIOR ELEVATIONS
A4.0	BUILDING SECTIONS
A4.1	BUILDING SECTIONS
A4.2	BUILDING SECTIONS
A4.3	BUILDING SECTIONS
A5.0	WALL SECTIONS
A6.0	ARCHITECTURAL DETAILS
S1	STRUCTURAL GENERAL NOTES
S2	TYPICAL DETAILS
S3	TYPICAL DETAILS
S4	MAIN FLOOR WALL & FOUNDATION PLAN
S5	UPPER FLOOR FRAMING PLAN
S5.1	UPPER FLOOR FRAMING LEGEND & SCHEDULE
S6	ROOF FRAMING PLAN
S7	SECTIONS & DETAILS
S8	SECTIONS & DETAILS
S9	SECTIONS & DETAILS
S10	SECTIONS & DETAILS
WSWH2	STRONGWALL WSWH FRAMING DETAILS

2018 WSEC CREDITS

PROJECT IS A NEW RESIDENCE GREATER THAN 5,000 SQ FT CONDITIONED AREA, AND SO IS A LARGE DWELLING UNIT REQUIRING 7.0 CREDITS

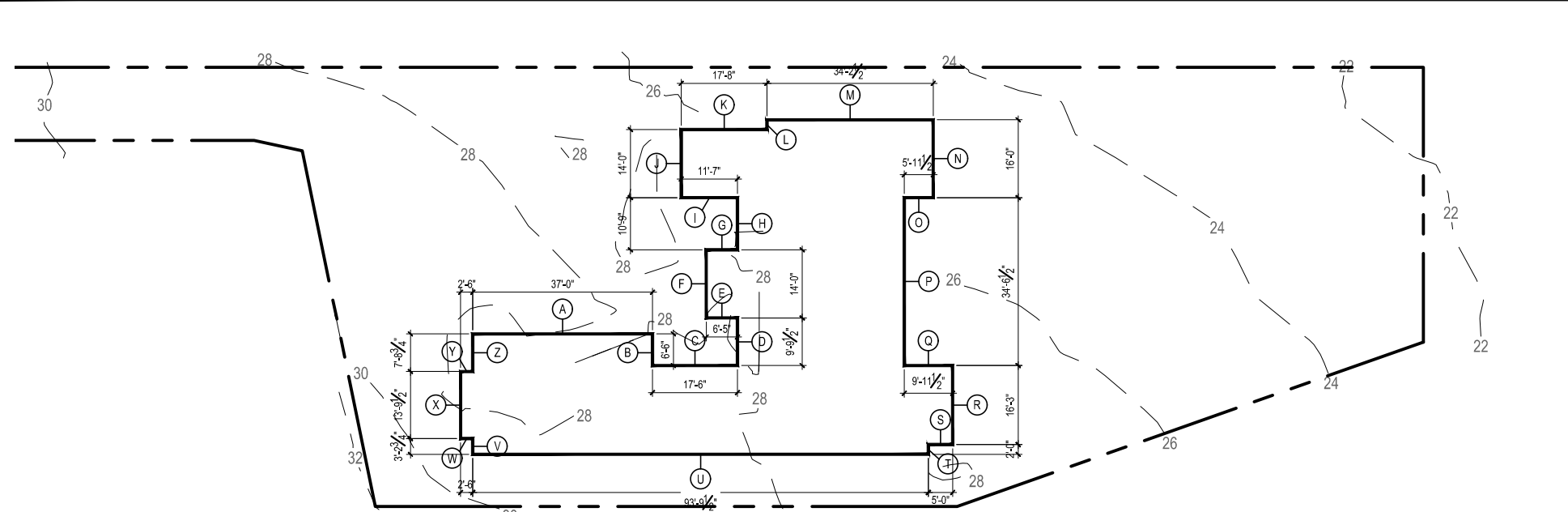
OPTION	CREDITS	DESCRIPTION
2	1.0	-HEAT PUMP EFFICIENCY (AIR COOLED) 14.0 SEER, 11 HSPF
1.3	0.5	-VERTICAL FENESTRATION U = 28, FLOOR-R-38 -R-10 RIGID INSULATION ENTIRE PERIMETER AND UNDER ENTIRE SLAB
3.5	1.5	-AIR SOURCE, CENTRALLY DUCTED HEAT PUMP W/ MIN. HSPF OF 11.0
4.2	1.0	-HVAC EQUIP. & AND ITS DUCT SYSTEM INSTALLATION SHALL COMPLY W/ R403.3.7. ALL EQUIP. & DUCTS SHALL BE IN CONDITIONED SPACE, W/ CONTINUOUS AIR BARRIER & BURNING THERMAL ENVELOPE.
5.3	1.0	-ENERGY STAR RATED GAS OR PROPANE WATER HEATER W/ A MIN. UEF OF 0.91
6.1	3.0	-FOR EACH 1200 KWH OF ELECTRICAL GENERATION PROVIDED BY SOLAR, 1 CREDIT WILL BE GIVEN, UP TO 3 CREDITS
TOTAL CREDITS		8

*PLEASE NOTE: ALL APPLIANCES SHALL BE INSTALLED WITH SUPPORTING DOCUMENTATION ON SITE PRIOR TO FINAL INSPECTION. NO DRYER DUCTS OR DRYER VENT CAPS SHALL NOT BE INSTALLED

AVERAGE BUILDING ELEV.

AVERAGE BUILDING ELEVATION			
	Wall Length	Elevation Pt.	Wall Length X Elev. Pt.
A	37	28.0	1036
B	6.5	28.0	182
C	17.5	28.0	490
D	9.79	28.0	274.12
E	6.42	28.0	179.76
F	14	28.0	392
G	6.42	28.0	179.76
H	10.75	28.0	301
I	11.58	27.0	312.66
J	14	27.0	378
K	17.67	26.0	459.42
L	2	25.5	51
M	34.21	25.0	855.25
N	16	25.0	400
O	5.96	25.5	151.98
P	34.54	26.0	898.04
Q	9.96	26.5	263.94
R	16.25	27.0	438.75
S	5	27.0	135
T	2	27.0	54
U	93.79	28.0	2626.12
V	3.23	29.0	93.67
W	2.5	29.0	72.5
X	13.79	28.0	386.12
Y	2.5	28.0	70
Z	7.73	28.0	216.44
		401.09	708.5
		401.09	10897.53
			Average Building Elevation
			27.17

ABE KEY PLAN SCALE: 1/32" = 1'-0"



NOXIOUS WEEDS

DEVELOPMENT PROPOSALS FOR A NEW SINGLE-FAMILY HOME 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 19.02.020(F)(3)(A), 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.

GEOTECH ENGINEER

GEOTECHNICAL ENGINEER REQUIRED TO BE PRESENT ON SITE DURING EXCAVATION AND AT REGULAR INTERVALS DURING CONSTRUCTION TO MONITOR THE STABILITY OF THE TEMPORARY OPEN CUT EXCAVATIONS PROPOSED FOR SITE RETAINING WALLS AND RESIDENTIAL STRUCTURE EXCAVATIONS.

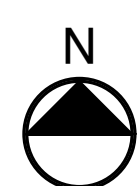
TREE PROTECTION

A TREE PROTECTION INSPECTION IS REQUIRED BEFORE START OF WORK

LEGEND

- SILT FENCE
- TREE PROTECTION FENCING
- P — POWER LINE
- GAS — GAS LINE
- W — WATER LINE
- SS — SANITARY SEWER LINE
- SD — STORM DRAIN LINE
- AREA OF LOT COVERAGE
- AREA OF HARDSCAPE
- AREA OF (E) LOT COVERAGE TO REMAIN

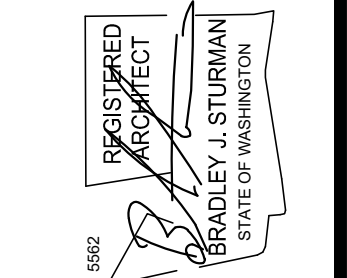
1 SITE PLAN SCALE: 1/16" = 1'-0"



SCALE: IF SHEET IS LESS THAN 24" X 36", IT IS A REDUCED PRINT, REDUCE SCALE ACCORDINGLY

STURMAN ARCHITECTS

9-103rd Avenue NE, Suite 203
Bellevue, WA 98004
TEL: 425-451-7003



www.sturmanarchitects.com
All Rights Reserved © 2024

ASDOURIAN RESIDENCE
PERMIT SET
5300 BUTTERWORTH RD
MERCER ISLAND, WA 98040

SITE PLAN
GENERAL NOTES

REVISIONS:	2024-05-13	Connectors #1
DRAWN BY:	KE	
CHECKED BY:	BJS	
SHEET	A1.0	
PERMIT SET	05/13/24	PLOT DATE: 5/13/2024

BUILDING AREA

	MAIN FLOOR	UPPER FLOOR	HEATED SUB-TOTAL	GARAGE/WORKSHOP	GRAND TOTAL	UNHEATED PATIO	UNHEATED DECK
PROPOSED HOUSE:	3025 SF	4021 SF	7046 SF	861 SF	7907 SF	1001 SF	766 SF

LOT COVERAGE AND HARDSCAPE

	GROSS LOT S.F.	MAIN ROOF STRUCT	DRIVES/PARKING	TOTAL LOT COVERAGE	% LOT COVERAGE
EXISTING LOT COVERAGE AREA	20,076 SF	0 SF	847 SF	847 SF	4.2 %
NET GAIN/LOSS IMPERVIOUS AREA		+5252 SF	+2428 SF	+7680 SF	+38.2 %
PROPOSED LOT COVERAGE AREA		5252 SF	3275 SF	8527 SF	42.5 %
% ALLOWED IMPERVIOUS AREA				8030.4 SF ALLOWABLE	40 %
FLAG LOT EXCEPTION				9034.2 SF ALLOWABLE	45 %

FRONT WALK	TRASH/SIDEWALK	PATIO	SIDE PATH	RETAINING WALL	TOTAL HARDSCAPE	% HARDSCAPE
0 SF	0 SF	0 SF	0 SF	0 SF	0 SF	0 %
+62 SF	+165 SF	+445 SF	+68 SF	+79 SF	+819 SF	+4.1 %
62 SF	165 SF	445 SF	68 SF	79 SF	819 SF	4.1 %
					1806.84 SF ALLOWABLE	9 %

HIGHEST EL. 33.0'
LOWEST EL. 21.5'
ELEVATION DIFFERENCE= 11.5'
11.5' DIVIDED BY 326.67' (HORIZ. DIST. BTWN. HIGHEST & LOWEST ELEV.) = .168

PER CODE 19.02.020.F.3.a.(b)
A DEVELOPMENT PROPOSAL ON A FLAG LOT THAT REQUIRES A DRIVEWAY THAT OCCUPIES MORE THAN 25% OF THE OTHERWISE ALLOWED LOT COVERAGE AREA. THE ALLOWED REDUCTION IN THE REQUIRED LANDSCAPING AREA AND INCREASE IN MAXIMUM LOT COVERAGE SHALL NOT EXCEED 5%, OR THE AREA OF THE DRIVEWAY IN EXCESS OF 25% OF THE LOT COVERAGE, WHICHEVER IS LESS.

LOT SLOPE IS 3.5%, WHICH IS LESS THAN 15% SO LOT COVERAGE ALLOWED IS 40%.

ADDITIONAL 9% OF LOT SIZE WILL DETERMINE ALLOWABLE HARDSCAPE SURFACE

GROSS FLOOR AREA

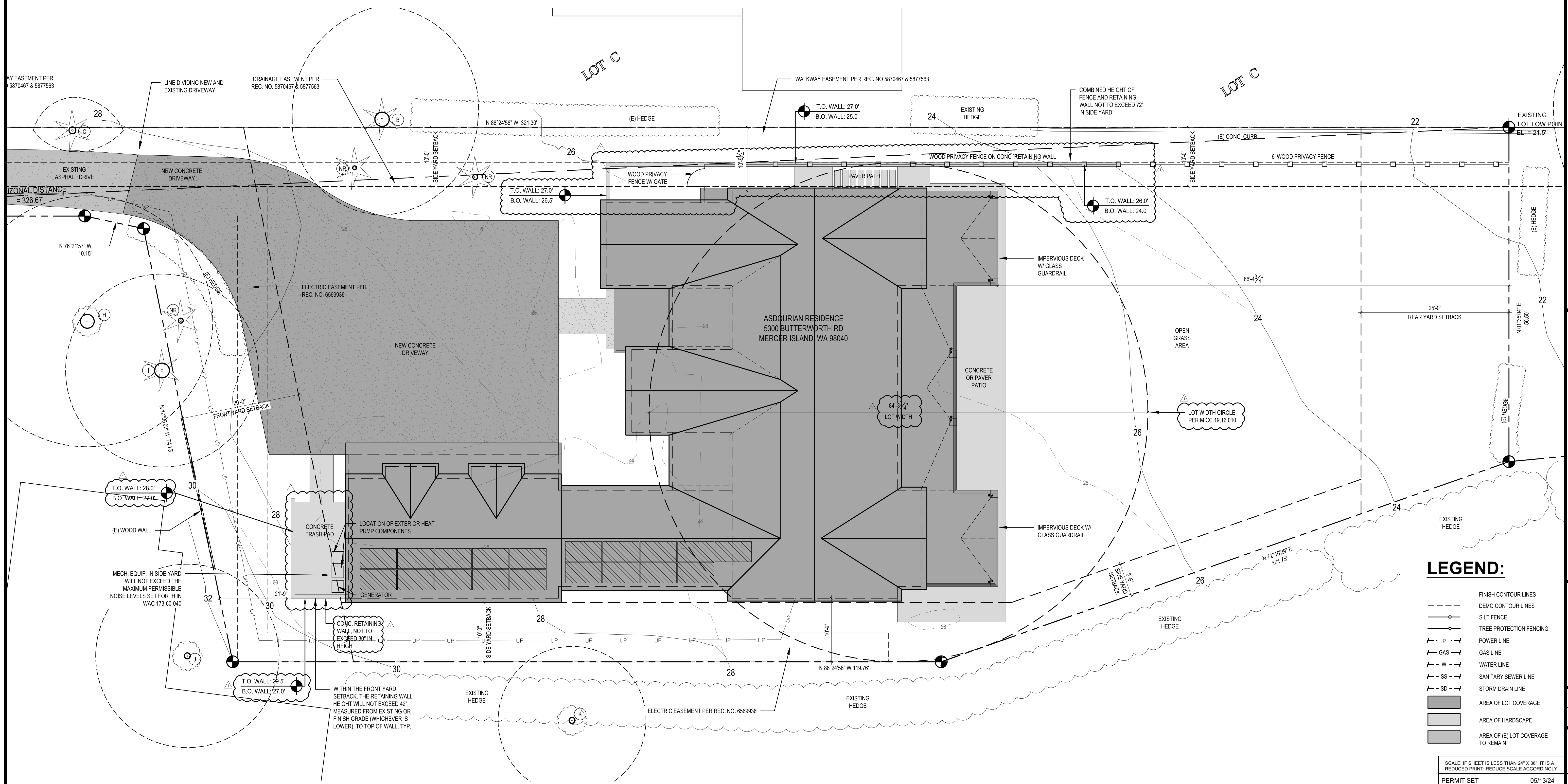
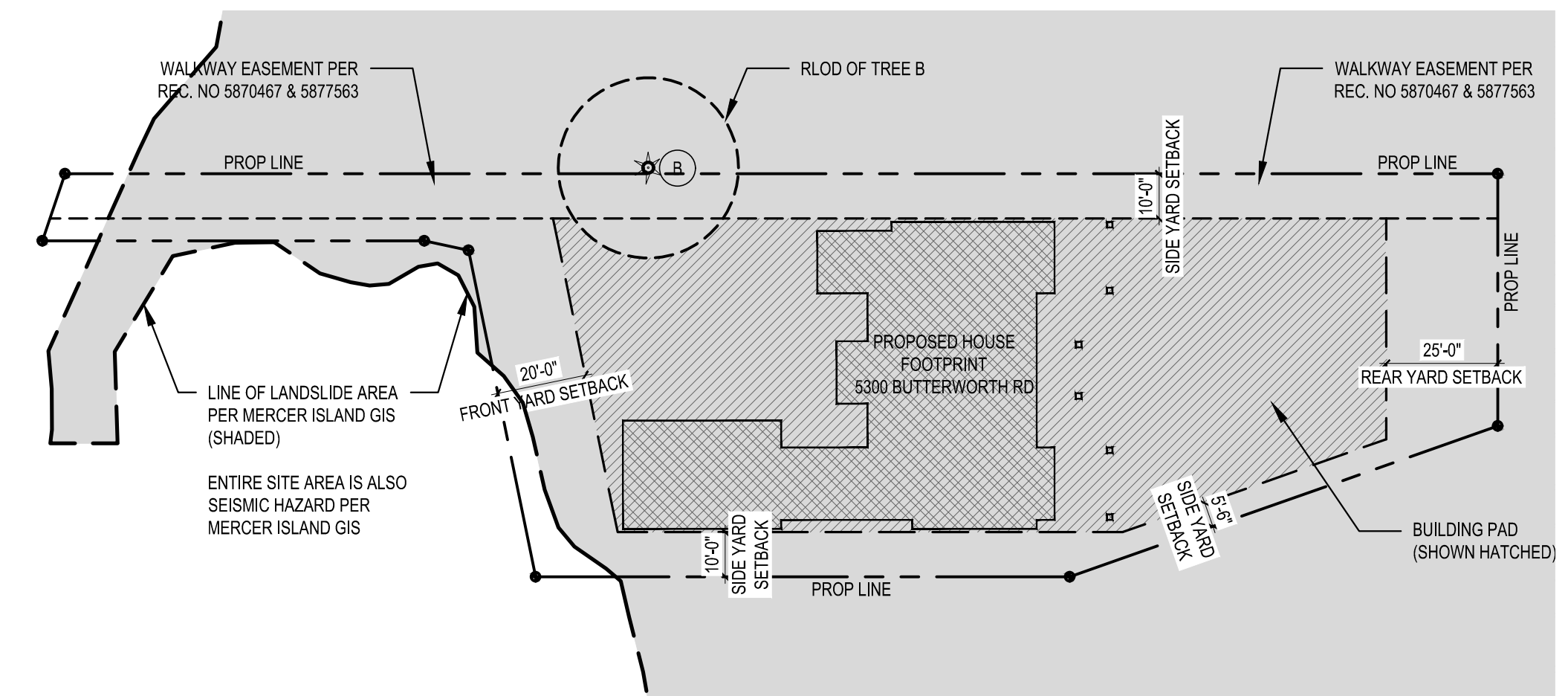
	BASEMENT EXCLUSION	NEW FLOOR AREA
MAIN FLOOR		3025 SF
SECOND FLOOR		4021 SF
GARAGE		861 SF
GROSS FLOOR AREA		7907 SF

NET LOT AREA 20,076 SF
ALLOWED MAX. % GFA COVERAGE 40.0 % OR 12,000 SF
ALLOWED GROSS FLOOR AREA 8030.4 SF
PROPOSED GROSS FLOOR AREA 7907 SF

STAIR ALLOWANCE
12" CEILING OF BED-2 -138 SF
12" CEILING OF STAIRS -51.5 SF
12" CEILING OF REC ROOM -65.5 SF
12" CEILING OF PRIMARY -172 SF

TOTAL GFA COVERAGE 8010 SF OR 39.8%

BUILDING PAD DIAGRAM SCALE: 1/32" = 1'-0"



LEGEND:

- FINISH CONTOUR LINES
- DEMO CONTOUR LINES
- SILT FENCE
- TREE PROTECTION FENCING
- POWER LINE
- GAS LINE
- WATER LINE
- SANITARY SEWER LINE
- STORM DRAIN LINE
- AREA OF LOT COVERAGE
- AREA OF HARDSCAPE
- AREA OF (E) LOT COVERAGE TO REMAIN

ASDOURIAN RESIDENCE
PERMIT SET
5300 BUTTERWORTH RD
MERCER ISLAND, WA 98040

SITE PLAN
SITE CALCS

REVISIONS:
2024-5-13 Corrections #1

DRAWN BY: KE
CHECKED BY: BUS
SHEET: A1.1
PLOT DATE: 5/13/2024

SCALE: IF SHEET IS LESS THAN 24" X 36", IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY.
PERMIT SET 05/13/24

STURMAN ARCHITECTS
9-103rd Avenue NE, Suite 203
Bellevue, WA 98004
TEL: 425-4517003

REGISTERED ARCHITECT
BRADLEY J. STURMAN
STATE OF WASHINGTON

www.sturmanarchitects.com
All Rights Reserved
© 2024

TOPOGRAPHIC & BOUNDARY SURVEY

We are the measure | terrane.net

TOPOGRAPHIC & BOUNDARY SURVEY
PARCEL NO. 8661400020

ASDOURIAN RESIDENCE

5300 BUTTERWORTH RD
MERCER ISLAND, WA 98040



TERRANE

10801 Main Street, Suite 102
Bellevue, WA 98004
p: 425-458-4488 | e: info@terrane.net

JOB NUMBER:	230068
DATE:	02/10/23
DRAFTED BY:	TGC
CHECKED BY:	JGM/TBH
SCALE:	N.T.S.
REVISION HISTORY	
3/18/24	UTILITY LOCATES

INDEXING INFORMATION	
SE 1/4	NE 1/4
SECTION: 19	
TOWNSHIP: 24N	
RANGE: 05E, W.M.	
COUNTY: KING	
SHEET NUMBER	
1 OF 3	

LEGAL DESCRIPTION

LOT 2, TONJA ESTATES, AS PER PLAT RECORDED IN VOLUME 77 OF PLATS, PAGE 64, RECORDS OF KING COUNTY, WASHINGTON; TOGETHER WITH THAT PORTION OF LOT 3 OF SAID PLAT DESCRIBED AS FOLLOWS:
BEGINNING AT THE NORTHEAST CORNER OF SAID LOT 3; THENCE SOUTH 1°35'04" WEST ALONG THE EASTERLY LINE OF LOT 3, A DISTANCE OF 75.31 FEET; THENCE NORTH 10°03'02" WEST A DISTANCE OF 74.73 FEET; THENCE NORTH 76°21'57" WEST A DISTANCE OF 10.15 FEET, MORE OR LESS, TO THE NORTH LINE OF SAID LOT 3; THENCE SOUTH 88°24'56" EAST ALONG SAID NORTH LINE 25.00 FEET TO THE POINT OF BEGINNING.
TOGETHER WITH AN UNDIVIDED 1/7 TH INTEREST IN LOT 1 OF SAID PLAT.

BASIS OF BEARINGS

ACCEPTED THE BEARING OF S 20°10'45" W BETWEEN MONUMENTS FOUND ALONG THE CENTERLINE OF BUTTERWORTH ROAD, PER REFERENCE NO. 1.

REFERENCES

R1. TONJA ESTATES, VOL. 77 OF PLATS, PG. 64, RECORDS OF KING COUNTY, WASHINGTON.

VERTICAL DATUM

NAVD 88 PER CITY OF MERCER ISLAND BENCHMARK NO. 1934 DESCRIPTION: 3" BRASS PLUG IN 4"x4" CONC. (DN 1.6') LOCATION: OPP D/W HSE #5210 ON BUTTERWORTH RD ELEVATION: 32.14'

SURVEYOR'S NOTES

SCHEDULE B ITEMS

1. EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT:
GRANTED TO: MERCER ISLAND SEWER DISTRICT
PURPOSE: SEWER
RECORDING DATE: JUNE 19, 1964
RECORDING NO.: 5750958
AFFECTS: REFERENCE IS HEREBY MADE TO DOCUMENT FOR FULL PARTICULARS
(AS CONSTRUCTED EAST OF SHORELINE.)

2. EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT:
GRANTED TO: MERCER ISLAND SEWER DISTRICT
PURPOSE: SEWER
RECORDING DATE: JULY 8, 1964
RECORDING NO.: 5758750
AFFECTS: REFERENCE IS HEREBY MADE TO DOCUMENT FOR FULL PARTICULARS
(AS CONSTRUCTED EAST OF SHORELINE.)

3. EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT:
PURPOSE: UTILITIES AND DRAINAGE
RECORDING DATE: APRIL 23, 1965
RECORDING NO.: 5870467
AFFECTS: REFERENCE IS HEREBY MADE TO DOCUMENT FOR FULL PARTICULARS
(PLOTTED UTILITIES AND DRAINAGE EASEMENTS. PLOTTED WALKWAY EASEMENT. UNDIVIDED 1/7 INTEREST IN LOT 1.)

4. COVENANTS, CONDITIONS, RESTRICTIONS, RECITALS, RESERVATIONS, EASEMENTS, EASEMENT PROVISIONS, ENCROACHMENTS, DEDICATIONS, BUILDING SETBACK LINES, NOTES, STATEMENTS, AND OTHER MATTERS, IF ANY, BUT OMITTING ANY COVENANTS OR RESTRICTIONS, IF ANY, INCLUDING BUT NOT LIMITED TO THOSE BASED UPON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, FAMILIAL STATUS, MARITAL STATUS, DISABILITY, HANDICAP, NATIONAL ORIGIN, ANCESTRY, OR SOURCE OF INCOME, AS SET FORTH IN APPLICABLE STATE OR FEDERAL LAWS, EXCEPT TO THE EXTENT THAT SAID COVENANT OR RESTRICTION IS PERMITTED BY APPLICABLE LAW, AS SET FORTH ON TONJA ESTATES:
RECORDING NO: 5877563
(PLOTTED UTILITIES AND DRAINAGE EASEMENTS. PLOTTED WALKWAY EASEMENT. UNDIVIDED 1/7 INTEREST IN LOT 1.)

5. EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT:
GRANTED TO: PUGET SOUND POWER & LIGHT COMPANY
PURPOSE: UTILITIES
RECORDING DATE: SEPTEMBER 26, 1969
RECORDING NO.: 8569936
AFFECTS: REFERENCE IS HEREBY MADE TO DOCUMENT FOR FULL PARTICULARS (PLOTTED)

7. COVENANTS, CONDITIONS, RESTRICTIONS, RECITALS, RESERVATIONS, EASEMENTS, EASEMENT PROVISIONS, ENCROACHMENTS, DEDICATIONS, BUILDING SETBACK LINES, NOTES, STATEMENTS, AND OTHER MATTERS, IF ANY, BUT OMITTING ANY COVENANTS OR RESTRICTIONS, IF ANY, INCLUDING BUT NOT LIMITED TO THOSE BASED UPON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, FAMILIAL STATUS, MARITAL STATUS, DISABILITY, HANDICAP, NATIONAL ORIGIN, ANCESTRY, OR SOURCE OF INCOME, AS SET FORTH IN APPLICABLE STATE OR FEDERAL LAWS, EXCEPT TO THE EXTENT THAT SAID COVENANT OR RESTRICTION IS PERMITTED BY APPLICABLE LAW, AS SET FORTH ON FELTIS-EYRING BOUNDARY LINE REVISION MERCER ISLAND FILE NO. M.I. 92-09-43:
RECORDING NO: 9212299014 (CURRENT CONDITIONS SHOWN)

8. COVENANTS, CONDITIONS, RESTRICTIONS, RECITALS, RESERVATIONS, EASEMENTS, EASEMENT PROVISIONS, ENCROACHMENTS, DEDICATIONS, BUILDING SETBACK LINES, NOTES, STATEMENTS, AND OTHER MATTERS, IF ANY, BUT OMITTING ANY COVENANTS OR RESTRICTIONS, IF ANY, INCLUDING BUT NOT LIMITED TO THOSE BASED UPON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, FAMILIAL STATUS, MARITAL STATUS, DISABILITY, HANDICAP, NATIONAL ORIGIN, ANCESTRY, OR SOURCE OF INCOME, AS SET FORTH IN APPLICABLE STATE OR FEDERAL LAWS, EXCEPT TO THE EXTENT THAT SAID COVENANT OR RESTRICTION IS PERMITTED BY APPLICABLE LAW, AS SET FORTH ON ROSA LINE REVISION MERCER ISLAND FILE NO. 94-0467:
RECORDING NO: 9606139004 (CURRENT CONDITIONS SHOWN)

LEGEND

[Symbol]	AREA DRAIN
[Symbol]	ASPHALT SURFACE
[Symbol]	BUILDING
[Symbol]	CENTERLINE ROW
[Symbol]	CONCRETE SURFACE
[Symbol]	DECK
[Symbol]	FENCE LINE (CHAIN LINK)
[Symbol]	FENCE LINE (WOOD)
[Symbol]	GAS VALVE
[Symbol]	HEDGE FOLIAGE LINE
[Symbol]	MAILBOX (RESIDENTIAL)
[Symbol]	MONUMENT (IN CASE, FOUND)
[Symbol]	POST
[Symbol]	POWER METER
[Symbol]	POWER (OVERHEAD)
[Symbol]	POWER POLE
[Symbol]	POWER TRANSFORMER
[Symbol]	PROPERTY LINE (SUBJECT)
[Symbol]	PROPERTY LINES (ADJACENT)
[Symbol]	REBAR & CAP (SET)
[Symbol]	REBAR AS NOTED (FOUND)
[Symbol]	RETAINING WALL
[Symbol]	RIGHT-OF-WAY LINES
[Symbol]	ROCKERY
[Symbol]	SEWER LINE
[Symbol]	SEWER MANHOLE
[Symbol]	SUBDIVISION LINES
[Symbol]	TREE (AS NOTED)
[Symbol]	WATER LINE
[Symbol]	WATER METER
[Symbol]	BLOW OFF VALVE
[Symbol]	GAS LINE
[Symbol]	POWER (UNDERGROUND)
[Symbol]	TELEPHONE (UNDERGROUND)
[Symbol]	WALKWAY EASEMENT PER REC. NO. 5870467 & 5877563
[Symbol]	DRAINAGE EASEMENT PER REC. NO. 5870467 & 5877563
[Symbol]	SEWER EASEMENT PER REC. NO. 5750958 & 5758750
[Symbol]	UTILITIES & DRAINAGE EASEMENT PER REC. NO. 5870467 & 5877563
[Symbol]	ELECTRIC EASEMENT PER REC. NO. 6569936

1. THE TOPOGRAPHIC SURVEY SHOWN HEREON WAS PERFORMED IN JANUARY OF 2023, AND MARCH OF 2024. THE FIELD DATA WAS COLLECTED AND RECORDED ON MAGNETIC MEDIA THROUGH AN ELECTRONIC THEODOLITE. THE DATA FILE IS ARCHIVED ON DISC OR CD. WRITTEN FIELD NOTES MAY NOT EXIST. CONTOURS ARE SHOWN FOR CONVENIENCE ONLY. DESIGN SHOULD RELY ON SPOT ELEVATIONS.

2. ALL MONUMENTS SHOWN HEREON WERE LOCATED DURING THE COURSE OF THIS SURVEY UNLESS OTHERWISE NOTED.

3. THE TYPES AND LOCATIONS OF ANY UTILITIES SHOWN ON THIS DRAWING ARE BASED ON INFORMATION PROVIDED TO US, BY OTHERS OR GENERAL INFORMATION READILY AVAILABLE IN THE PUBLIC DOMAIN INCLUDING, AS APPLICABLE, IDENTIFYING MARKINGS PLACED BY UTILITY LOCATE SERVICES AND OBSERVED BY TERRANE IN THE FIELD. AS SUCH, THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY AND SHOULD NOT BE RELIED ON FOR DESIGN OR CONSTRUCTION PURPOSES; TERRANE IS NOT RESPONSIBLE OR LIABLE FOR THE ACCURACY OR COMPLETENESS OF THIS UTILITY INFORMATION. FOR THE ACCURATE LOCATION AND TYPE OF UTILITIES NECESSARY FOR DESIGN AND CONSTRUCTION, PLEASE CONTACT THE SITE OWNER AND THE LOCAL UTILITY LOCATE SERVICE (800-424-5555).

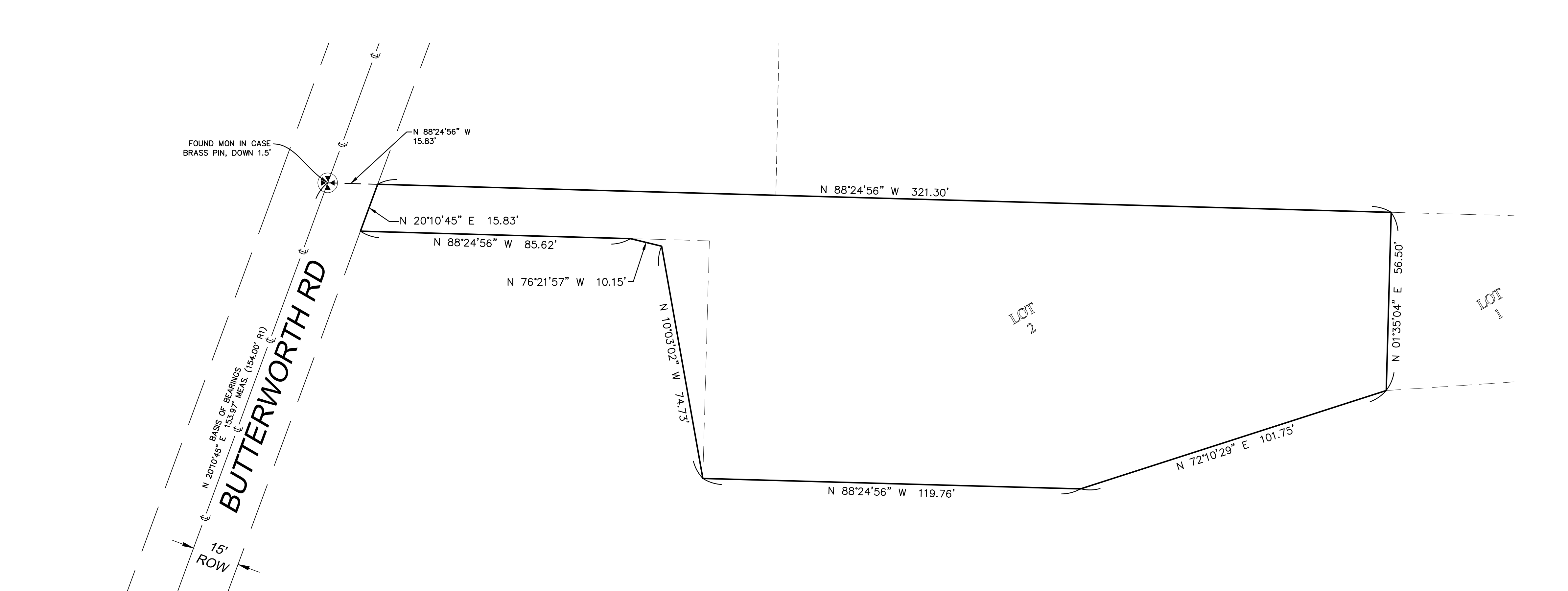
4. SUBJECT PROPERTY TAX PARCEL NO. 8661400020

5. SUBJECT PROPERTY AREA PER THIS SURVEY IS 20,076 S.F. (0.46 ACRES)

6. THE PROPERTY DESCRIBED HEREON IS THE SAME AS THE PROPERTY DESCRIBED IN FIDELITY NATIONAL TITLE INSURANCE COMPANY'S OWNER'S POLICY NO. 611321770, WITH AN EFFECTIVE DATE OF NOVEMBER 15, 2022 AND THAT ALL EASEMENTS, COVENANTS AND RESTRICTIONS REFERENCED IN SAID TITLE COMMITMENT OR APPARENT FROM A PHYSICAL INSPECTION OF THE PROPERTY OR OTHERWISE KNOWN TO ME HAVE BEEN PLOTTED HEREON OR OTHERWISE NOTED AS TO THEIR EFFECT ON THE PROPERTY.

7. EXISTING STRUCTURE(S) LOCATION AND DIMENSIONS ARE MEASURED FROM THE FACE OF THE SIDING UNLESS OTHERWISE NOTED.

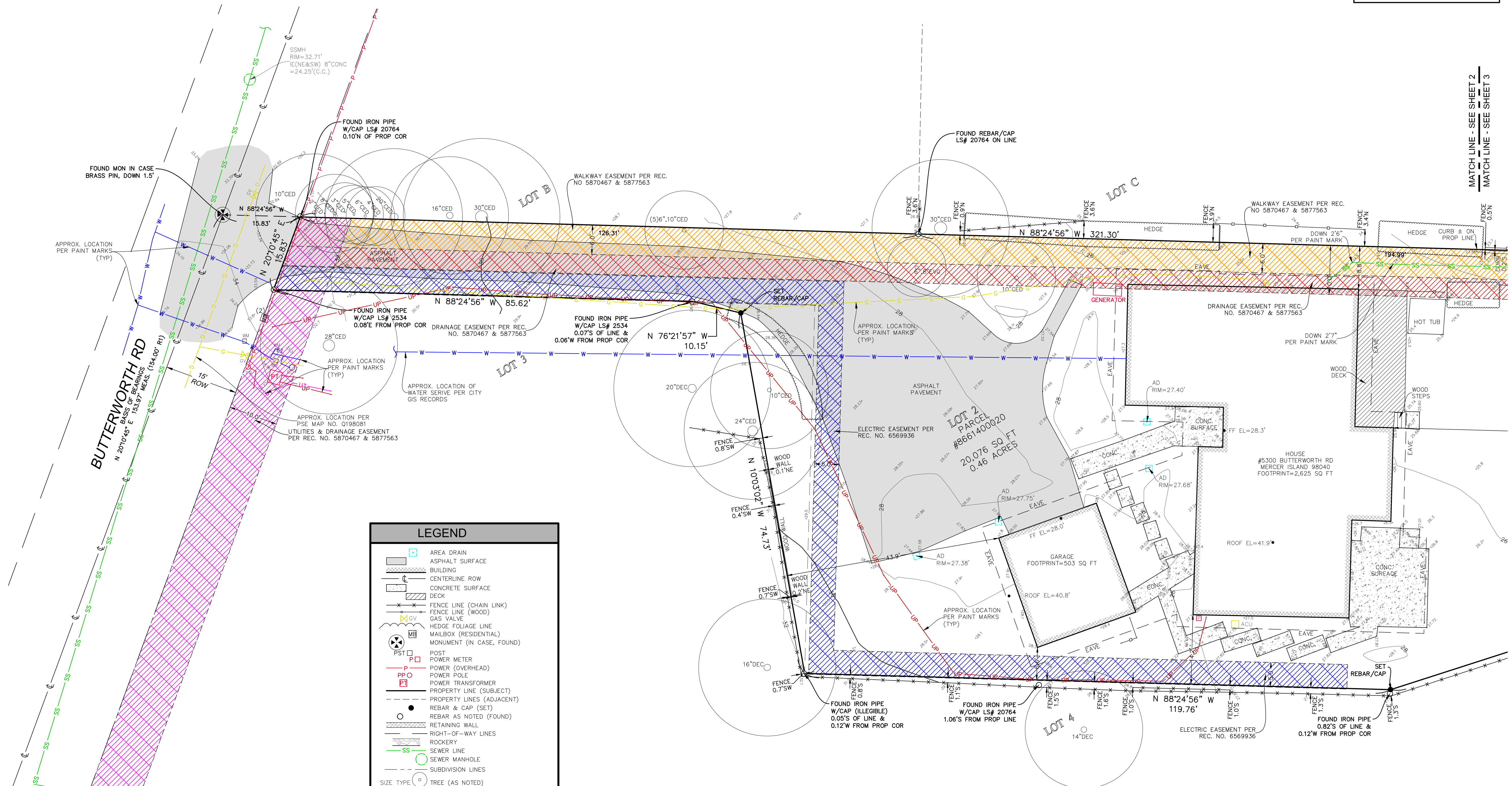
8. FIELD DATA FOR THIS SURVEY WAS OBTAINED BY DIRECT FIELD MEASUREMENTS WITH A CALIBRATED ELECTRONIC 5-SECOND TOTAL STATION AND/OR SURVEY GRADE GPS OBSERVATIONS. ALL ANGULAR AND LINEAR RELATIONSHIPS ARE ACCURATE AND MEET THE STANDARDS SET BY WAC 332-130-090.



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

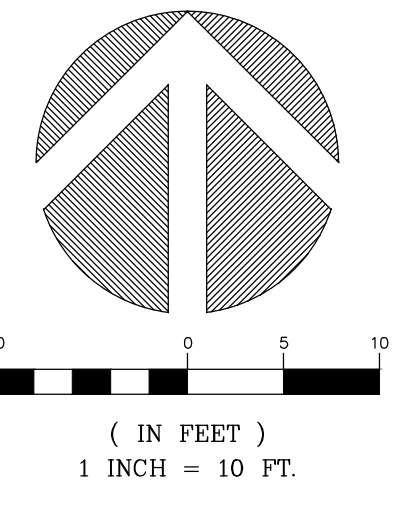
TOPOGRAPHIC & BOUNDARY SURVEY

INDEXING INFORMATION	
SE 1/4 NE 1/4	SECTION: 19
	TOWNSHIP: 24N
	RANGE: 05E, W.M.
	COUNTY: KING



LEGEND	
	AREA DRAIN
	ASPHALT SURFACE
	BUILDING
	CENTERLINE ROW
	CONCRETE SURFACE
	DECK
	FENCE LINE (CHAIN LINK)
	FENCE LINE (WOOD)
	GAS VALVE
	HEDGE FOLIAGE LINE
	MAILBOX (RESIDENTIAL)
	MONUMENT (IN CASE, FOUND)
	POST
	POWER METER
	POWER (OVERHEAD)
	POWER POLE
	POWER TRANSFORMER
	PROPERTY LINE (SUBJECT)
	PROPERTY LINES (ADJACENT)
	REBAR & CAP (SET)
	REBAR AS NOTED (FOUND)
	RETAINING WALL
	RIGHT-OF-WAY LINES
	ROCKERY
	SEWER LINE
	SEWER MANHOLE
	SUBDIVISION LINES
	TREE (AS NOTED)
	WATER LINE
	WATER METER
	BLOW OFF VALVE
	GAS LINE
	POWER (UNDERGROUND)
	TELEPHONE (UNDERGROUND)
	WALKWAY EASEMENT PER REC. NO. 5870467 & 5877563
	DRAINAGE EASEMENT PER REC. NO. 5870467 & 5877563
	SEWER EASEMENT PER REC. NO. 5750958 & 5758750
	UTILITIES & DRAINAGE EASEMENT PER REC. NO. 5870467 & 5877563
	ELECTRIC EASEMENT PER REC. NO. 6569936

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



MATCH LINE - SEE SHEET 2
 MATCH LINE - SEE SHEET 3

TOPOGRAPHIC & BOUNDARY SURVEY
 PARCEL NO. 8661400020

ASDOURIAN RESIDENCE
 5300 BUTTERWORTH RD
 MERCER ISLAND, WA 98040



TERRANE
 10801 Main Street, Suite 102
 Bellevue, WA 98004
 p: 425-458-4488 | e: info@terrane.net

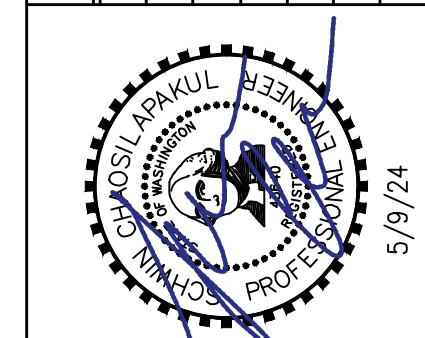
JOB NUMBER:	230068
DATE:	02/10/23
DRAFTED BY:	TGC
CHECKED BY:	JGM/TBH
SCALE:	1" = 10'
REVISION HISTORY	
3/18/24	UTILITY LOCATES
SHEET NUMBER	
2 OF 3	

We are the measure | terrane.net

ASDOURIAN RESIDENCE

SE 1/4, NE 1/4, SEC 19, T 24 N, R 05 E, W. M.

BY	DESCRIPTION	DATE	R#
SC	CITY REVIEW COMMENTS 2/14/24	5/9/24	1
			2
			3
			4
			5
			6
			7
			8
			9
			10
			11
			12
			13
			14
			15
			16
			17
			18
			19
			20
			21
			22
			23
			24
			25
			26
			27
			28
			29
			30
			31
			32
			33
			34
			35
			36
			37
			38
			39
			40
			41
			42
			43
			44
			45
			46
			47
			48
			49
			50
			51
			52
			53
			54
			55
			56
			57
			58
			59
			60
			61
			62
			63
			64
			65
			66
			67
			68
			69
			70
			71
			72
			73
			74
			75
			76
			77
			78
			79
			80
			81
			82
			83
			84
			85
			86
			87
			88
			89
			90
			91
			92
			93
			94
			95
			96
			97
			98
			99
			100



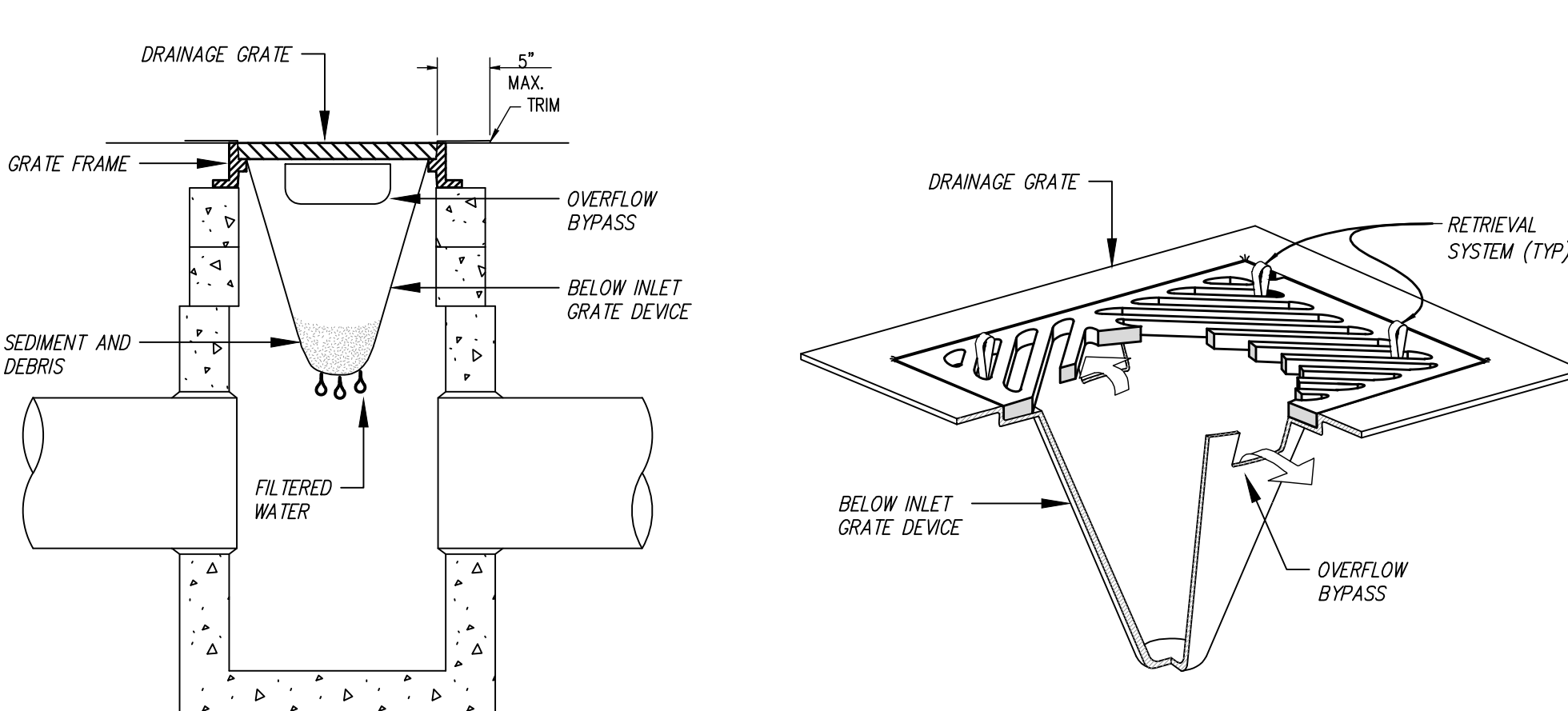
CITY OF MERCER ISLAND
BUILDING PERMIT
TESC DETAILS



PROJ. NO: 23109
OWN. BY: CC
DATE: 5/9/24
CHK. BY: SC

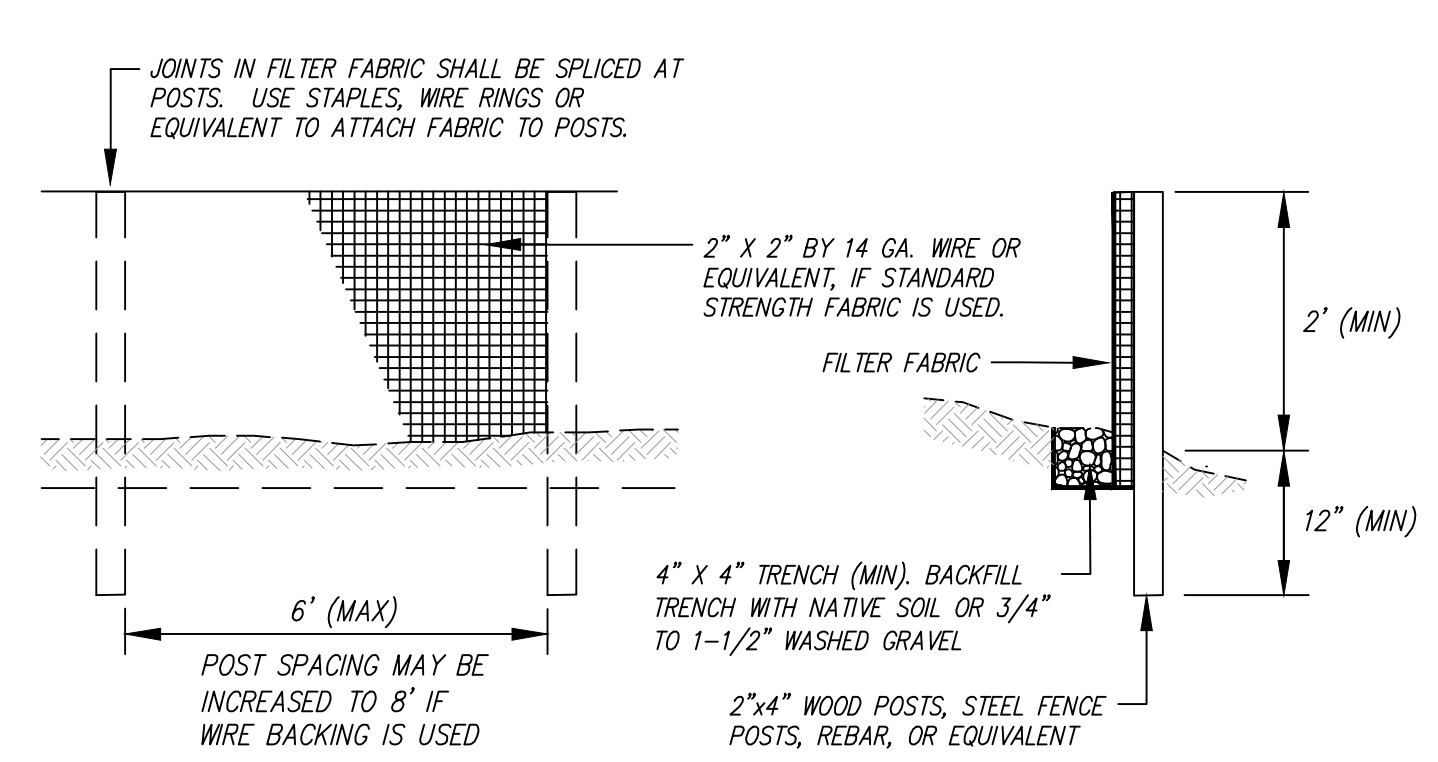
ASDOURIAN RESIDENCE
ASDOURIAN RESIDENCE
5300 BUTTERWORTH RD
MERCER ISLAND, WA 98040

DATE: 5/9/24
SCALE: AS SHOWN
DRAWING NO: C2.1
3 OF 7



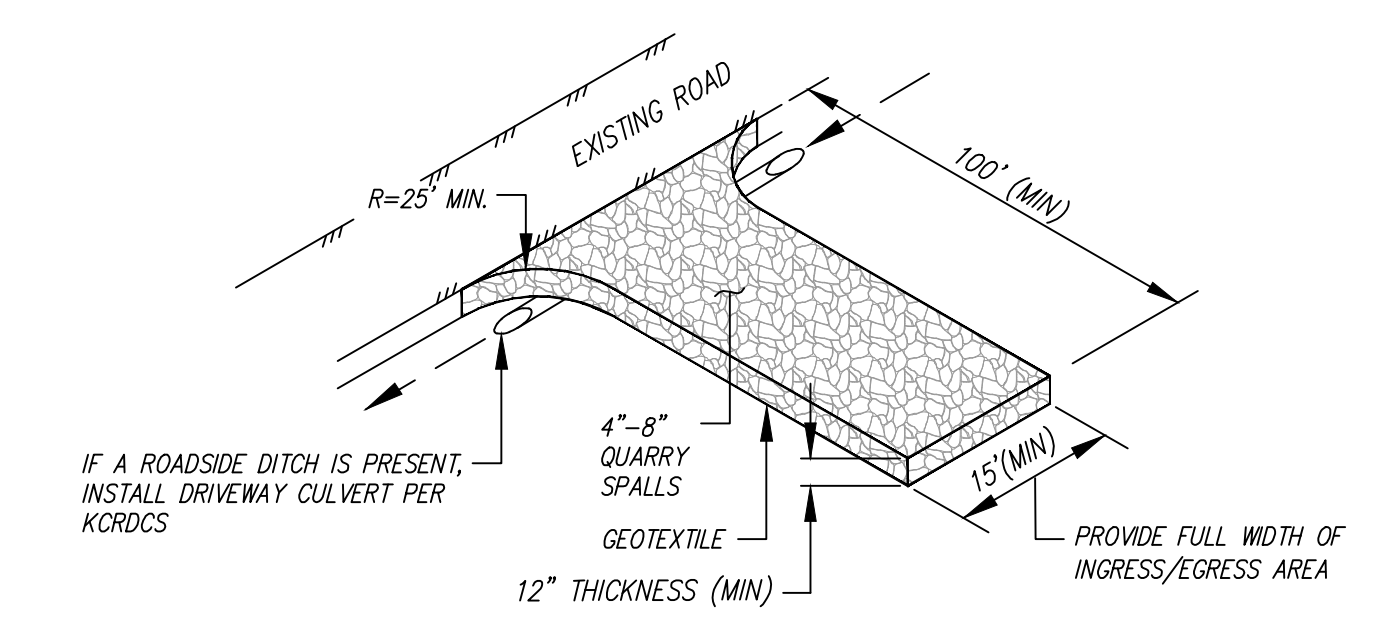
- NOTES:**
1. SIZE THE BELOW INLET GRATE DEVICE (BIGD) FOR THE STORM WATER STRUCTURE IT WILL SERVICE.
 2. THE BIGD SHALL HAVE A BUILT-IN HIGH-FLOW RELIEF SYSTEM (OVERFLOW BYPASS).
 3. THE RETRIEVAL SYSTEM MUST ALLOW REMOVAL OF THE BIGD WITHOUT SPILLING THE COLLECTED MATERIAL.
 4. PERFORM MAINTENANCE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 8-01.3(15).

3 CATCH BASIN INLET PROTECTION
C2.0 SCALE: NTS



- NOTE:**
1. SILT FILTER FABRIC FENCES SHALL BE INSTALLED ALONG CONTOURS WHENEVER POSSIBLE

2 SILT FENCE
C2.0 SCALE: NTS



- NOTES:**
1. PER KING COUNTY ROAD DESIGN AND CONSTRUCTION STANDARDS (KCRDCS), DRIVEWAYS SHALL BE PAVED TO EDGE OF R-O-W PRIOR TO INSTALLATION OF THE CONSTRUCTION ENTRANCE TO AVOID DAMAGING OF THE ROADWAY.
 2. IT IS RECOMMENDED THAT THE ENTRANCE BE CROWNED SO THAT RUNOFF DRAINS OFF THE PAD.

1 CONSTRUCTION ENTRANCE
C2.0 SCALE: NTS

Arborist Report
Asdourian: 5300 Butterworth Rd, Mercer Island, WA 98040
3.13.2023

Appendix F Tree Protection Specifications

The following is a list of protection measures that must be employed before, during and after construction to ensure the long-term viability of retained trees.

1. **Project Arborist:** The project arborists shall at minimum have an International Society of Arboriculture (ISA) Certification and ISA Tree Risk Assessment Qualification.
2. **Tree Protection Zone (TPZ):** The City of Mercer Island requires a tree protection zone (TPZ) congruent with the Recommend Limits of Disturbance (RLD) established by the project arborist. The RLOD must be consistent with current ISA BMPs. In some cases, the TPZ may extend outside tree protection fencing. Work within the TPZ must be approved and monitored by the project arborist.
3. **Tree Protection Fencing:** Tree protection shall consist of 6-foot chain-link fencing installed at the TPZ as approved by the project arborist. Fence posts shall be anchored into the ground or bolted to existing hardscape surfaces.
 - a. Where trees are being retained as a group the fencing shall encompass the entire area including all landscape beds or lawn areas associated with the grove.
 - b. Per arborist approval, TPZ fencing may be placed at the edge of existing hardscape within the TPZ to allow for staging and traffic.
 - c. Where work is planned within the TPZ, install fencing at edge of TPZ and move to limits of disturbance at the time that the work within the TPZ is planned to occur. This ensures that work within the TPZ is completed to specification.
 - d. Where trees are protected at the edge of the project boundary, construction limits fencing shall be incorporated as the boundary of tree protection fencing.
4. **Access Beyond Tree Protection Fencing:** In areas where work such as installation of utilities is required within the TPZ, a locking gate will be installed in the fencing to facilitate access. The project manager or project arborist shall be present when tree protection areas are accessed.
5. **Tree Protection Signage:** Tree protection signage shall be affixed to fencing every 20 feet. Signage shall be fluorescent, at least 2' x 2' in size, with 3" tall text. Signage will note: "Tree Protection Area - Do Not Enter: Entry into the tree protection area is prohibited unless authorized by the project manager." Signage shall include the contact information for the project manager and instructions for gaining access to the area.
6. **Filter / Silt Fencing:** Filter / silt fencing within the TPZ of retained trees shall be installed in a manner that does not sever roots. Install so that filter / silt fencing sits on the ground and is weighed in place by sandbags or gravel. Do not trench to insert filter / silt fencing into the ground.
7. **Monitoring:** The project arborist shall monitor all ground disturbance at the edge of or within the TPZ, including where the TPZ extends beyond the tree protection fencing.
8. **Soil Protection:** No parking, foot traffic, materials storage, or dumping (including excavated soils) are allowed within the TPZ. Heavy machinery shall remain outside of the TPZ. Access to the tree protection area will be granted under the supervision of the project arborist. If project arborist allows, heavy machinery can enter the area if soils are protected from the load. Acceptable methods of soil protection include applying 3/4-inch plywood over 4 to 6 inches of wood chip mulch or use of AlumnaMats® (or equivalent product approved by the project arborist). Retain existing paved surfaces within or at the edge of the TPZ for as long as possible.
9. **Soil Remediation:** Soil compacted within the TPZ of retained trees shall be remediated using pneumatic air excavation according to a specification produced by the project arborist.
10. **Canopy Protection:** Where fencing is installed at the limits of disturbance within the TPZ, canopy management (pruning or tying back) shall be conducted to ensure that vehicular traffic does not

Tree Solutions Inc., Consulting Arborists
Page 10

Arborist Report
Asdourian: 5300 Butterworth Rd, Mercer Island, WA 98040
3.13.2023

Appendix G Tree Protection Specifications

The following is a list of protection measures that must be employed before, during and after construction to ensure the long-term viability of retained trees.

11. **Duff/Mulch:** Apply 6 inches of arborist wood chip mulch or hog fuel over bare soil within the TPZ to prevent compaction and evaporation. TPZ shall be free of invasive weeds to facilitate mulch application. Keep mulch 1 foot away from the base of trees and 6 inches from retained understory vegetation. Retain and protect as much of the existing duff and understory vegetation as possible.
12. **Excavation:** Excavation done at the edge of or within the TPZ shall use alternative methods such as pneumatic air excavation or hand digging. If heavy machinery is used, use flat front buckets with the project arborist spotting for roots. When roots are encountered, stop excavation, and cleanly sever roots. The project arborist shall monitor all excavation done within the TPZ.
13. **Fill:** Limit fill to 1 foot of uncompacted well-draining soil, within the TPZ of retained trees. In areas where additional fill is required, consult with the project arborist. Fill must be kept at least 1 foot from the trunks of trees.
14. **Root Pruning:** Limit root pruning to the extent possible. All roots shall be pruned with a sharp saw making clean cuts. Do not fracture or break roots with excavation equipment.
15. **Root Moisture:** Root cuts and exposed roots shall be immediately covered with soil, mulch, or clear polyethylene sheeting and kept moist. Water to maintain moist condition until the area is back filled. Do not allow exposed roots to dry out before replacing permanent back fill.
16. **Hardscape Removal:** Retain hardscape surfaces for as long as practical. Remove hardscape in a manner that does not require machinery to traverse newly exposed soil within the TPZ. Where equipment must traverse the newly exposed soil, apply soil protection as described in section 8. Replace fencing at edge of TPZ if soil exposed by hardscape removal will remain for any period of time.
17. **Tree Removal:** All trees to be removed that are located within the TPZ of retained trees shall not be ripped, pulled, or pushed over. The tree should be cut to the base and the stump either left or ground out. A flat front bucket can also be used to sever roots around all sides of the stump, or the roots can be exposed using hydro or air excavation and then cut before removing the stump.
18. **Irrigation:** Retained trees with soil disturbance within the TPZ will require supplemental water from June through September. Acceptable methods of irrigation include drip, sprinkler, or watering truck. Trees shall be watered three times per month during this time.
19. **Pruning:** Pruning required for construction and safety clearance shall be done with a pruning specification provided by the project arborist in accordance with American National Standards Institute ANSI-A300 2017 Standard Practices for Pruning. Pruning shall be conducted or monitored by an arborist with an ISA Certification.
20. **Plan Updates:** All plan updates or field modification that result in impacts within the TPZ or change the retained status of trees shall be reviewed by the senior project manager and project arborist prior to conducting the work.
21. **Materials:** Contractor shall have the following materials onsite and available for use during work in the TPZ:
 - Sharp and clean bypass hand pruners
 - Sharp and clean bypass loppers
 - Sharp hand-held root saw
 - Reciprocating saw with new blades
 - Shovels
 - Trowels
 - Clear polyethylene sheeting
 - Burlap
 - Water

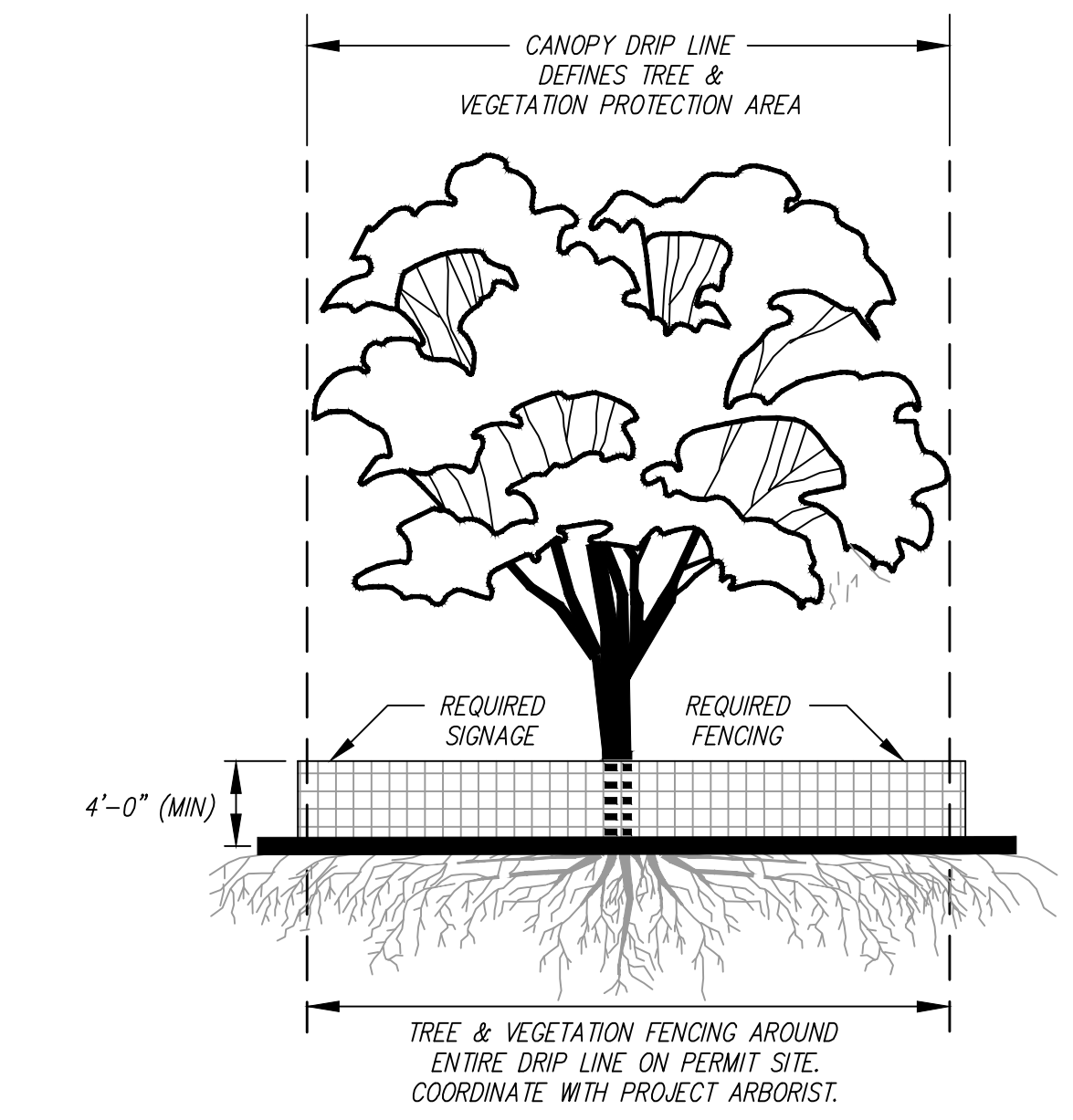
Tree Solutions Inc., Consulting Arborists
Page 11

TREE PROTECTION FENCING AND SIGN

1. CHAIN LINK, WIRE MESH, OR SIMILAR OPEN RIGID MATERIAL (NO PLYWOOD)
2. MUST BE INSTALLED PRIOR TO DEMOLITION OR GROUND DISTURBANCE
3. KEPT IN PLACE FOR THE DURATION OF CONSTRUCTION
4. NO SOIL DISTURBANCE OR ACTIVITY ALLOWED WITHIN FENCED AREA: MATERIAL STORAGE/STOCKPILING, PARKING, EXCAVATION, DUMPING, OR WASHING
5. MODIFICATIONS OF THESE REQUIREMENTS BY APPROVAL OF SDCI PLANNER ONLY
6. IF ROOTS GREATER THAN 2 INCH FOUND OUTSIDE OF FENCING, PROTECT BY HAND EXCAVATION AND, IF NECESSARY, CUT CLEANLY AND KEEP MOIST
7. USE 3 INCHES OR DEEPER WOOD CHIP MULCH OUTSIDE FENCED AREAS TO PROTECT FEEDER ROOTS

VEGETATION PROTECTION

1. ORANGE MESH OR SIMILAR OPEN MATERIAL
2. MINIMIZE CONSTRUCTION ZONE
3. PROTECT VEGETATION OUTSIDE CONSTRUCTION ZONE WITH FENCING AS SHOWN
4. USE 3 INCHES OR DEEPER WOOD CHIP MULCH OUTSIDE FENCED AREAS TO PROTECT FEEDER ROOTS



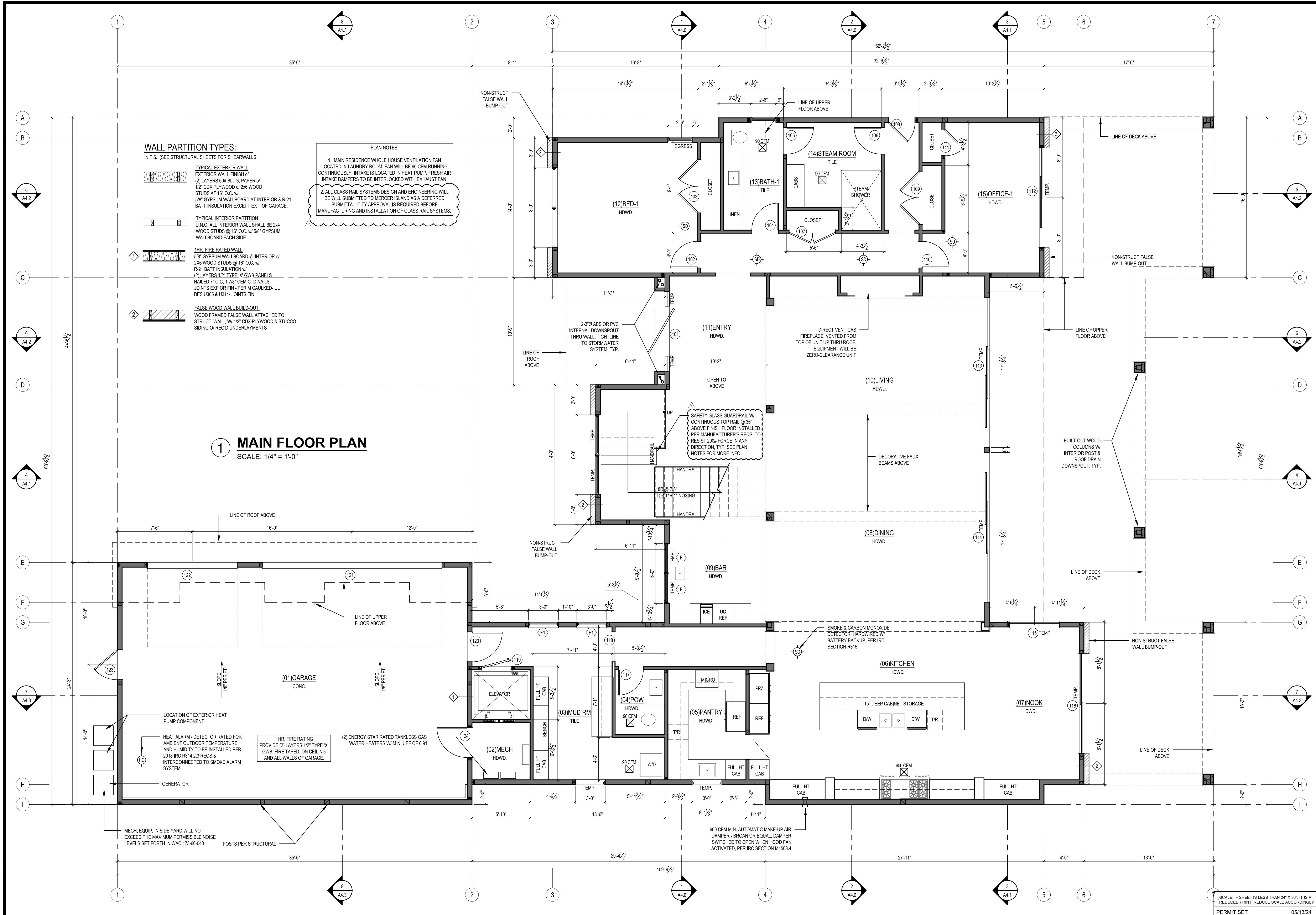
4 TREE & VEGETATION PROTECTIVE FENCE
C2.0 SCALE: NTS

5 TREE PROTECTION SPECIFICATIONS
C2.0 (PER ARBORIST REPORT BY TREE SOLUTIONS, INC.)

CALL 48 HOURS BEFORE YOU DIG 811

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 1-800-424-5555 OR 811 (CELL) A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

May 09, 2024 1:01:31PM - User: Sheri Stark
X:\Projects & Project Data\2023\23109_Asdourian Res_Mercer Island\Drawing\Working\SheetSet\23109_C2.1-TESC DETAILS.dwg



- WALL PARTITION TYPES:**
N.T.S. (SEE STRUCTURAL SHEETS FOR SHEARWALLS.)
- TYPICAL EXTERIOR WALL
EXTERIOR WALL FINISH OF
(2) LAYERS 5/8" BLDG. PAPER w/
1/2" CDX PLYWOOD & 2x6 WOOD
STUDS AT 16" O.C. w/
5/8" GYPSUM WALLBOARD AT INTERIOR & R-21
BATT INSULATION EXCEPT EXT. OF GARAGE.
 - TYPICAL INTERIOR PARTITION
U.N.O. ALL INTERIOR WALL SHALL BE 2x4
WOOD STUDS @ 16" O.C. w/ 5/8" GYPSUM
WALLBOARD EACH SIDE.
 - 1HR. FIRE RATED WALL
5/8" GYPSUM WALLBOARD @ INTERIOR of
2x6 WOOD STUDS @ 16" O.C. w/
R-21 BATT INSULATION w/
(2) LAYERS 1/2" TYPE 'X' GWB PANELS
NAILED 7" O.C. - 1 7/8" CEM CTD WALLS-
JOINTS EXP OR FIN - PERIM CALKED-UL
DES U305 & U314- JOINTS FIN
 - FALSE WOOD WALL BUILD-OUT
WOOD FRAMED FALSE WALL ATTACHED TO
STRUCT. WALL, w/ 1/2" CDX PLYWOOD & STUCCO
SIDING O/ REQ'D UNDERLAYMENTS

PLAN NOTES:

1. MAIN RESIDENCE WHOLE HOUSE VENTILATION FAN
LOCATED IN LAUNDRY ROOM. FAN WILL BE 90 CFM RUNNING
CONTINUOUSLY. INTAKE IS LOCATED IN HEAT PUMP. FRESH AIR
INTAKE DAMPERS TO BE INTERLOCKED WITH EXHAUST FAN.
2. ALL GLASS RAIL SYSTEMS DESIGN AND ENGINEERING WILL
BE WILL SUBMITTED TO MERCER ISLAND AS A DEFERRED
SUBMITTAL. CITY APPROVAL IS REQUIRED BEFORE
MANUFACTURING AND INSTALLATION OF GLASS RAIL SYSTEMS.

1 MAIN FLOOR PLAN
SCALE: 1/4" = 1'-0"

LOCATION OF EXTERIOR HEAT
PUMP COMPONENT

HEAT ALARM / DETECTOR RATED FOR
AMBIENT OUTDOOR TEMPERATURE
AND HUMIDITY TO BE INSTALLED PER
2018 IRC R314.2.3 REQS &
INTERCONNECTED TO SMOKE ALARM
SYSTEM

GENERATOR

MECH. EQUIP. IN SIDE YARD WILL NOT
EXCEED THE MAXIMUM PERMISSIBLE NOISE
LEVELS SET FORTH IN WAC 173-60-040

POSTS PER STRUCTURAL

1 HR. FIRE RATING
PROVIDE (2) LAYERS 1/2" TYPE 'X'
GWB. FIRE TAPED, ON CEILING
AND ALL WALLS OF GARAGE.

(2) ENERGY STAR RATED TANKLESS GAS
WATER HEATERS W/ MIN. UEF OF 0.91

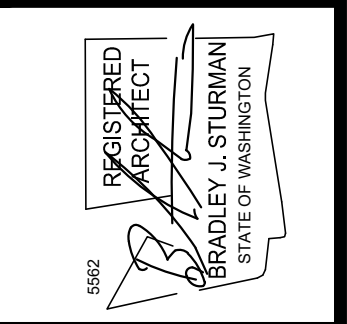
600 CFM MIN. AUTOMATIC MAKE-UP AIR
DAMPER - BROAN OR EQUAL. DAMPER
SWITCHED TO OPEN WHEN HOOD FAN
ACTIVATED, PER IRC SECTION M1503.4

SAFETY GLASS GUARDRAIL W/
CONTINUOUS TOP RAIL @ 36"
ABOVE FINISH FLOOR INSTALLED
PER MANUFACTURER'S REQS. TO
RESIST 200# FORCE IN ANY
DIRECTION, TYP. SEE PLAN
NOTES FOR MORE INFO

SMOKE & CARBON MONOXIDE
DETECTOR, HARDWIRED W/
BATTERY BACKUP, PER IRC
SECTION R315

DIRECT VENT GAS
FIREPLACE, VENTED FROM
TOP OF UNIT UP THRU ROOF.
EQUIPMENT WILL BE
ZERO-CLEARANCE UNIT

2-3" ABS OR PVC
INTERNAL DOWNSPOUT
THRU WALL, TIGHTLINE
TO STORMWATER
SYSTEM, TYP.



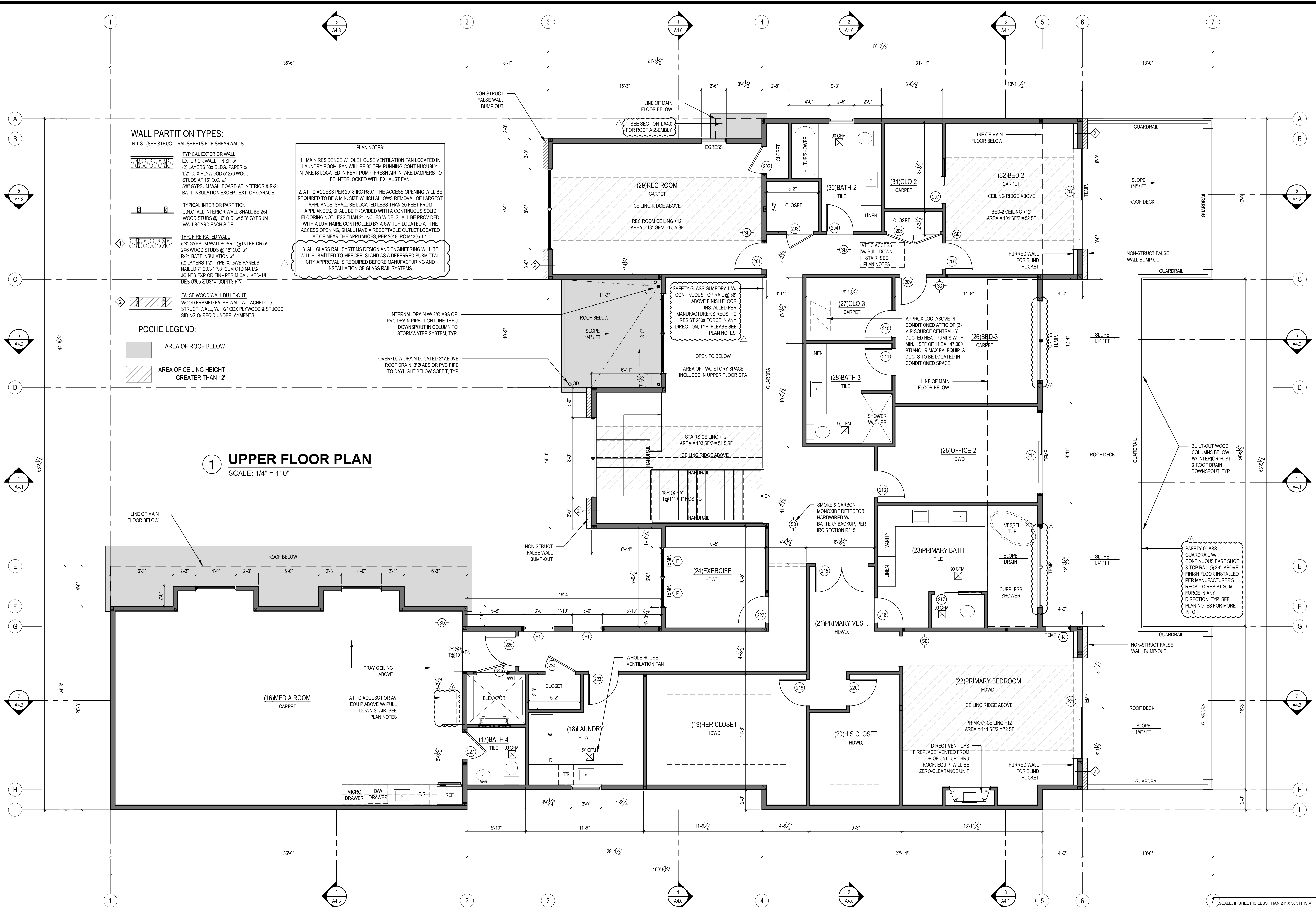
www.sturmanarchitects.com
All Rights Reserved
© 2024

ASDURIAN RESIDENCE
PERMIT SET
5300 BUTTERWORTH RD
MERCER ISLAND, WA 98040

MAIN FLOOR PLAN

REVISIONS:	2024-5-13 Connectors #1
DRAWN BY:	KE
CHECKED BY:	BJS
SHEET	A2.0
PERMIT SET	05/13/24
PLOT DATE:	5/13/2024

SCALE: IF SHEET IS LESS THAN 24" X 36", IT IS A
REDUCED PRINT, REDUCE SCALE ACCORDINGLY



WALL PARTITION TYPES:
N.T.S. (SEE STRUCTURAL SHEETS FOR SHEARWALLS.)

- 1. TYPICAL EXTERIOR WALL
EXTERIOR WALL FINISH OF
(2) LAYERS 60# BLDG. PAPER OF
1/2" CDX PLYWOOD OF 2x6 WOOD
STUDS AT 16" O.C. w/
5/8" GYPSUM WALLBOARD AT INTERIOR & R-21
BATT INSULATION EXCEPT EXT. OF GARAGE.
- 2. TYPICAL INTERIOR PARTITION
U.N.O. ALL INTERIOR WALL SHALL BE 2x4
WOOD STUDS @ 16" O.C. w/ 5/8" GYPSUM
WALLBOARD EACH SIDE.
- 3. 1HR. FIRE RATED WALL
5/8" GYPSUM WALLBOARD @ INTERIOR OF
2x6 WOOD STUDS @ 16" O.C. w/
R-21 BATT INSULATION w/
(2) LAYERS 1/2" TYPE 'X' GWB PANELS
NAILED 7" O.C. 1 7/8" CEM CTD NAILS-
JOINTS EXP OR FIN - PERIM CALKED-UL
DES U305 & U314- JOINTS FIN
- 4. FALSE WOOD WALL BUILD-OUT
WOOD FRAMED FALSE WALL ATTACHED TO
STRUCT. WALL, W/ 1/2" CDX PLYWOOD & STUCCO
SIDING O/ REQ'D UNDERLAYMENTS

POCHE LEGEND:

- AREA OF ROOF BELOW
- AREA OF CEILING HEIGHT
GREATER THAN 12'

PLAN NOTES:

1. MAIN RESIDENCE WHOLE HOUSE VENTILATION FAN LOCATED IN LAUNDRY ROOM. FAN WILL BE 90 CFM RUNNING CONTINUOUSLY. INTAKE IS LOCATED IN HEAT PUMP. FRESH AIR INTAKE DAMPERS TO BE INTERLOCKED WITH EXHAUST FAN.
2. ATTIC ACCESS PER 2018 IRC R807. THE ACCESS OPENING WILL BE REQUIRED TO BE A MIN. SIZE WHICH ALLOWS REMOVAL OF LARGEST APPLIANCE. SHALL BE LOCATED WITH A CONTINUOUS SOLID FLOORING NOT LESS THAN 24 INCHES WIDE. SHALL BE PROVIDED WITH A LUMINAIRE CONTROLLED BY A SWITCH LOCATED AT THE ACCESS OPENING. SHALL HAVE A RECEPTACLE OUTLET LOCATED AT OR NEAR THE APPLIANCE. PER 2018 IRC M1305.1.1.
3. ALL GLASS RAIL SYSTEMS DESIGN AND ENGINEERING WILL BE WILL SUBMITTED TO MERCER ISLAND AS A DEFERRED SUBMITTAL. CITY APPROVAL IS REQUIRED BEFORE MANUFACTURING AND INSTALLATION OF GLASS RAIL SYSTEMS.

1 UPPER FLOOR PLAN
SCALE: 1/4" = 1'-0"

STURMAN ARCHITECTS
9-103rd Avenue NE Suite 203
Bellevue, WA 98004
TEL: 425-4517003

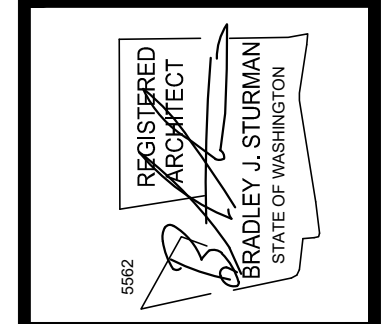
ASDURIAN RESIDENCE PERMIT SET
5300 BUTTERWORTH RD
MERCER ISLAND, WA 98040

UPPER FLOOR PLAN

REVISIONS:
2024-05-13 Corrections #1

DRAWN BY: KE
CHECKED BY: BUS
SHEET: **A2.1**

SCALE: IF SHEET IS LESS THAN 24" X 36", IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY.
PERMIT SET 05/13/24 PLOT DATE: 5/13/2024



REVISIONS:	
2024-5-13 Connectors #1	
DRAWN BY:	KE
CHECKED BY:	BJS
SHEET	A2.2
PERMIT SET	05/13/24
PLOT DATE:	5/13/2024

VARYING ROOF PITCHES:
 THERE ARE THREE ROOF PITCHES IN THIS PROJECT. FOR EACH PITCH, THERE IS A DIFFERENT EAVE OVERHANG DIMENSION TO ENSURE ALIGNMENT OF TOP OF FASCIA.

3.5:12 EAVE = +7.5"
 7:12 EAVE = 9"
 11:12 EAVE = 6"

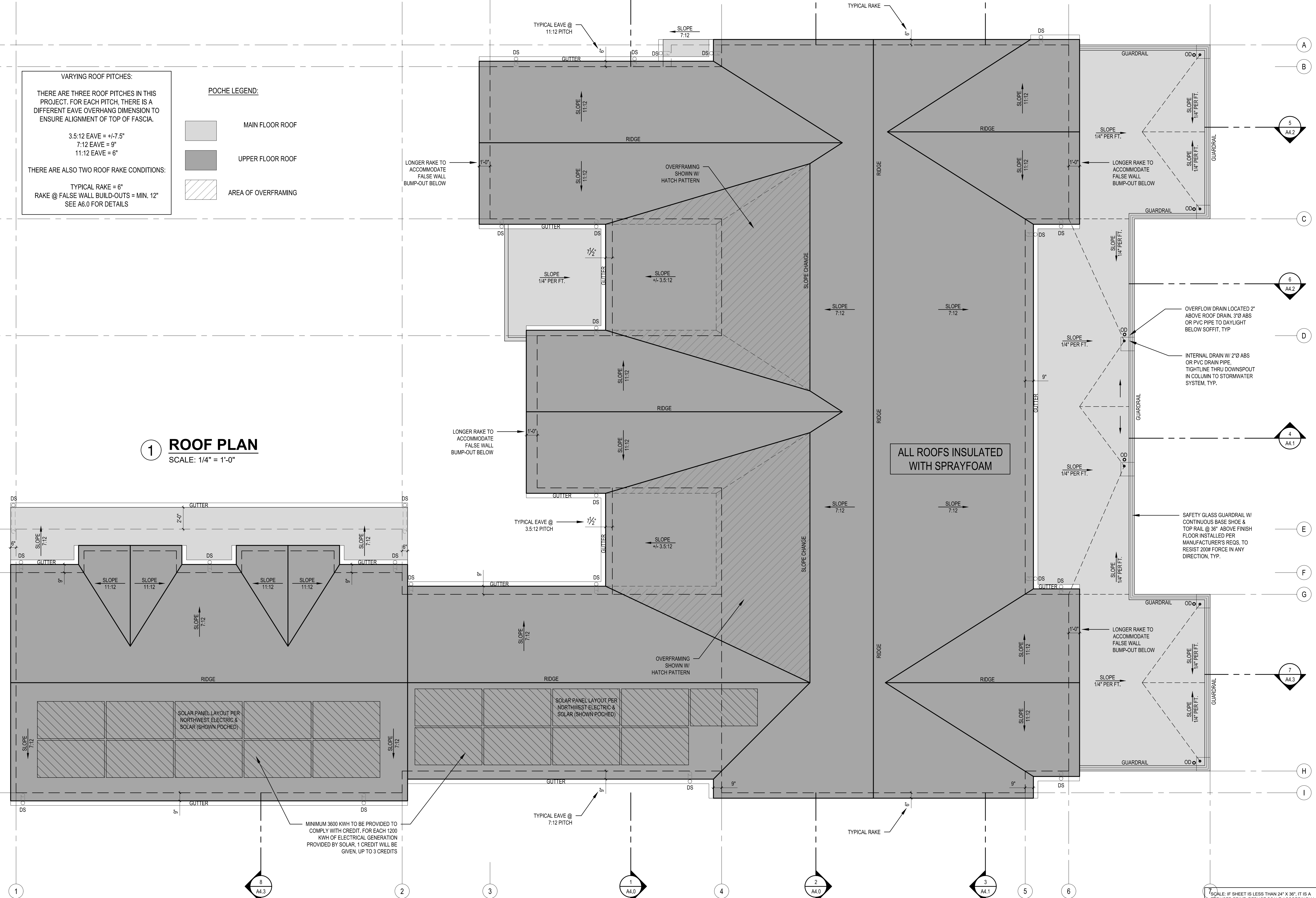
THERE ARE ALSO TWO ROOF RAKE CONDITIONS:

TYPICAL RAKE = 6"
 RAKE @ FALSE WALL BUILD-OUTS = MIN. 12"
 SEE A6.0 FOR DETAILS

POCHE LEGEND:

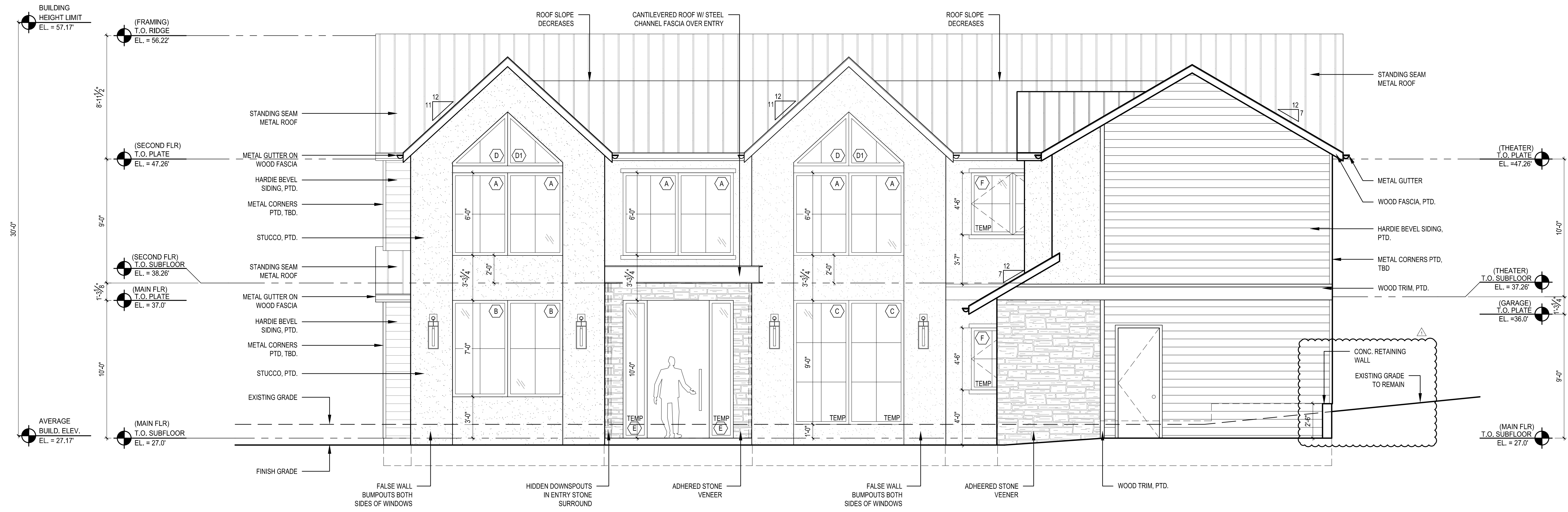
- MAIN FLOOR ROOF
- UPPER FLOOR ROOF
- AREA OF OVERFRAMING

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

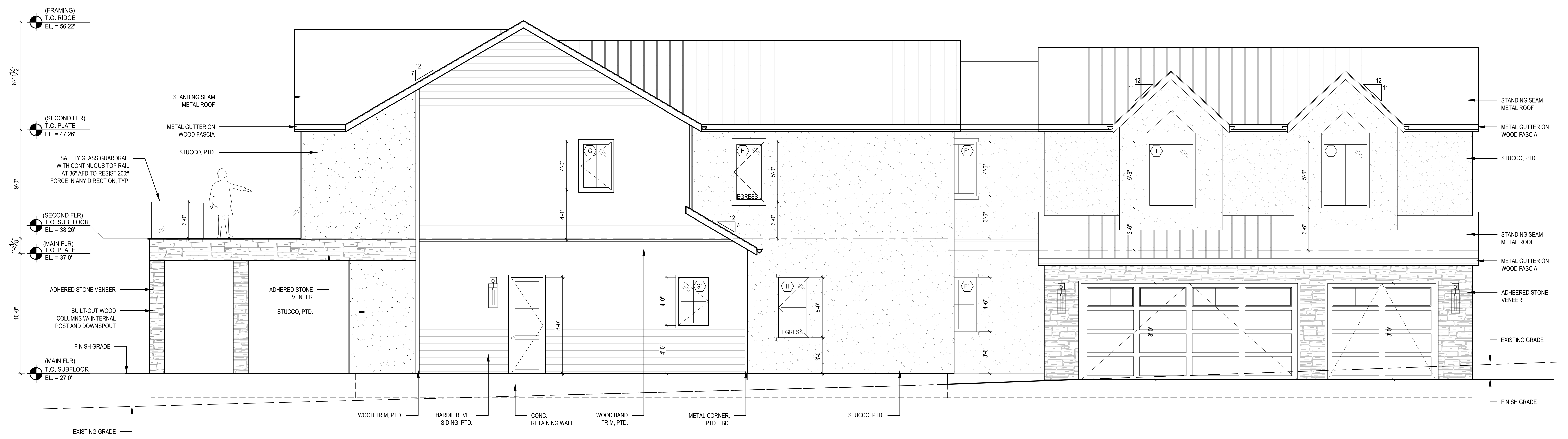


MINIMUM 3600 KWH TO BE PROVIDED TO COMPLY WITH CREDIT. FOR EACH 1200 KWH OF ELECTRICAL GENERATION PROVIDED BY SOLAR, 1 CREDIT WILL BE GIVEN, UP TO 3 CREDITS

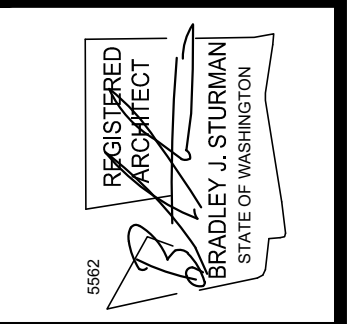
SCALE: IF SHEET IS LESS THAN 24" X 36", IT IS A REDUCED PRINT, REDUCE SCALE ACCORDINGLY
 PERMIT SET 05/13/24



1 WEST EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



2 NORTH EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



www.sturmanarchitects.com
All Rights Reserved
© 2024

ASDourian Residence
PERMIT SET
5300 BUTTERWORTH RD
MERCER ISLAND, WA 98040

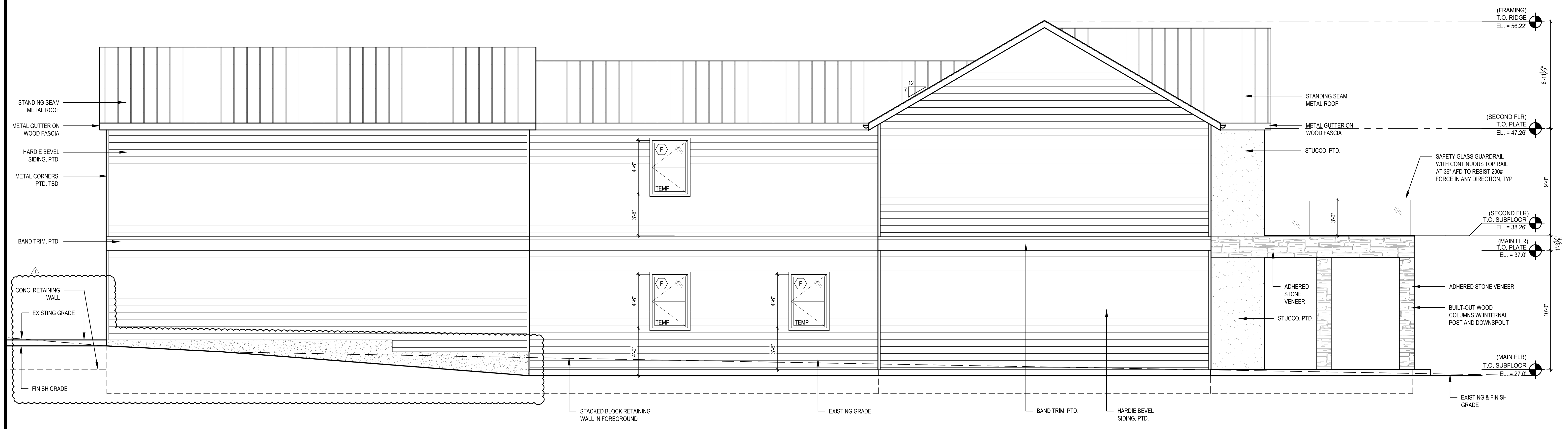
EXTERIOR ELEVATIONS

REVISIONS:	2024-5-13 Connectors #1
DRAWN BY:	KE
CHECKED BY:	BJS
SHEET	A3.0
PERMIT SET	05/13/24
PLOT DATE:	5/13/2024

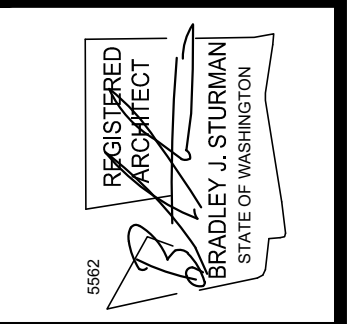
SCALE: IF SHEET IS LESS THAN 24" X 36", IT IS A REDUCED PRINT, REDUCE SCALE ACCORDINGLY



3 EAST EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



4 SOUTH EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



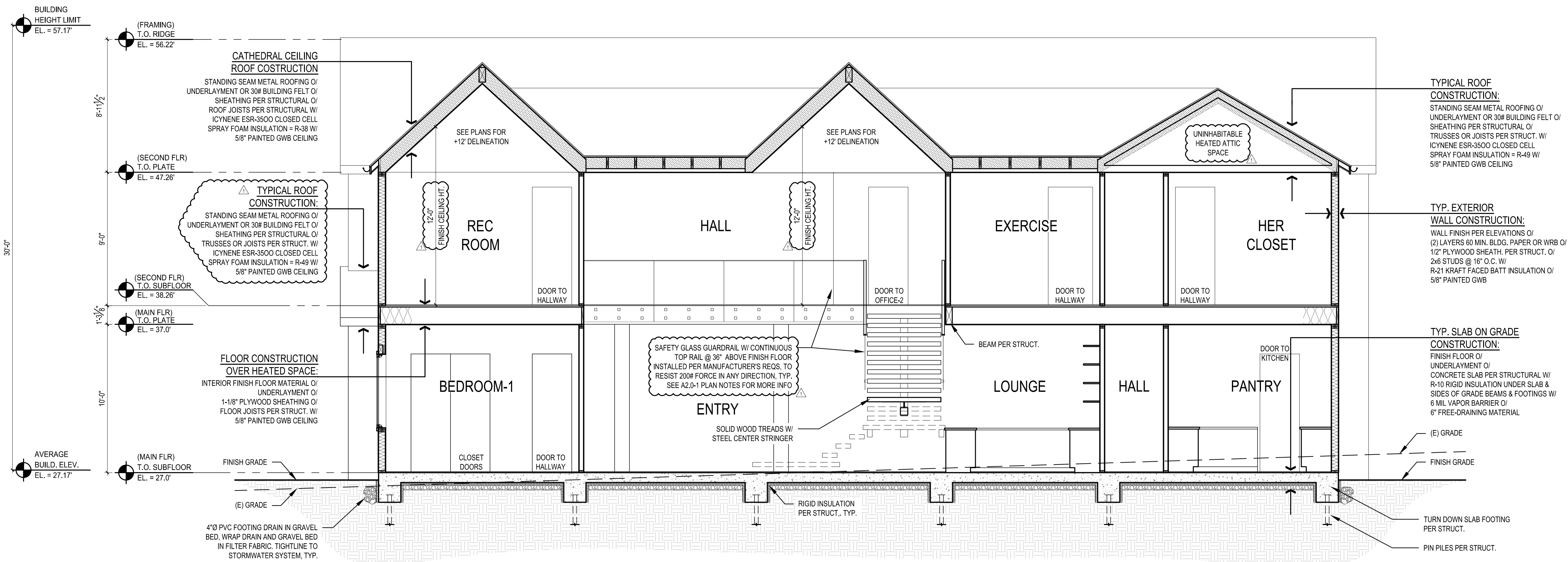
www.sturmanarchitects.com
All Rights Reserved
© 2024

ASDOURIAN RESIDENCE
PERMIT SET
5300 BUTTERWORTH RD
MERCER ISLAND, WA 98040

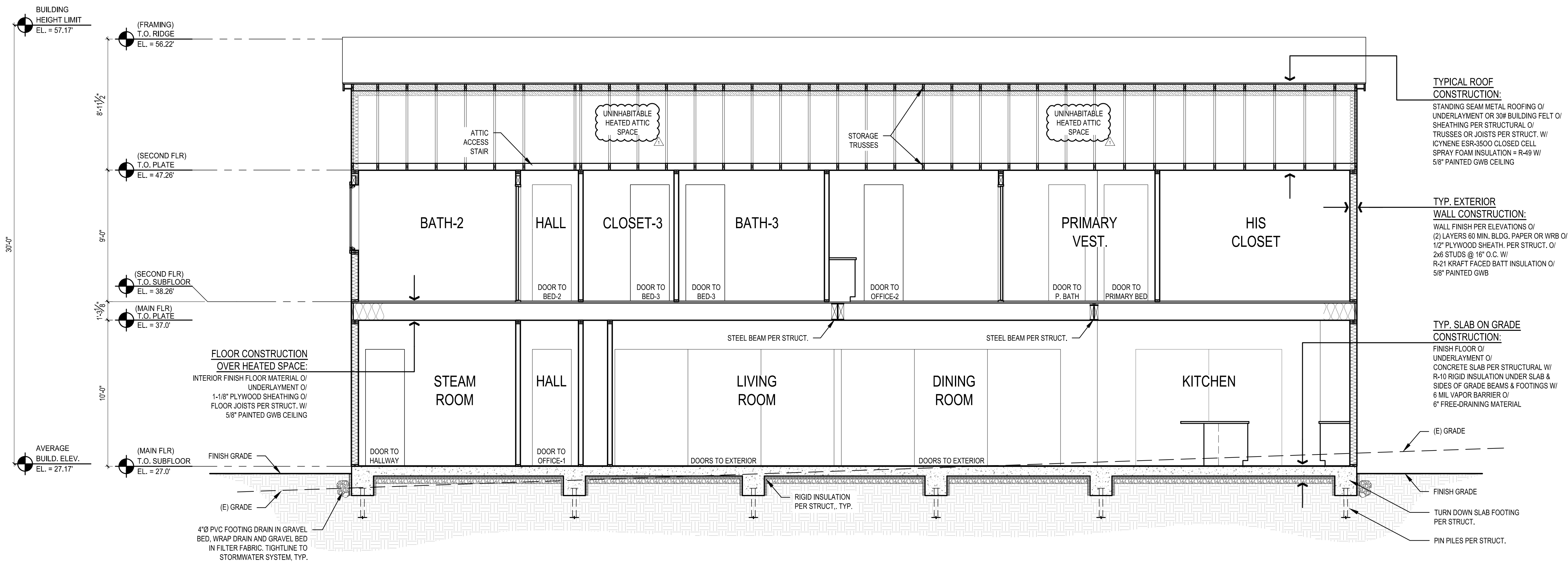
EXTERIOR ELEVATIONS

REVISIONS:	2024-5-13 Connectors #1
DRAWN BY:	KE
CHECKED BY:	BJS
SHEET	A3.1
PERMIT SET	05/13/24
PLOT DATE:	5/13/2024

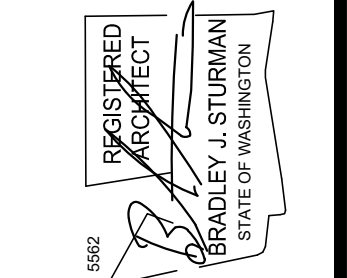
SCALE: IF SHEET IS LESS THAN 24" X 36", IT IS A REDUCED PRINT; REDUCE SCALE ACCORDINGLY



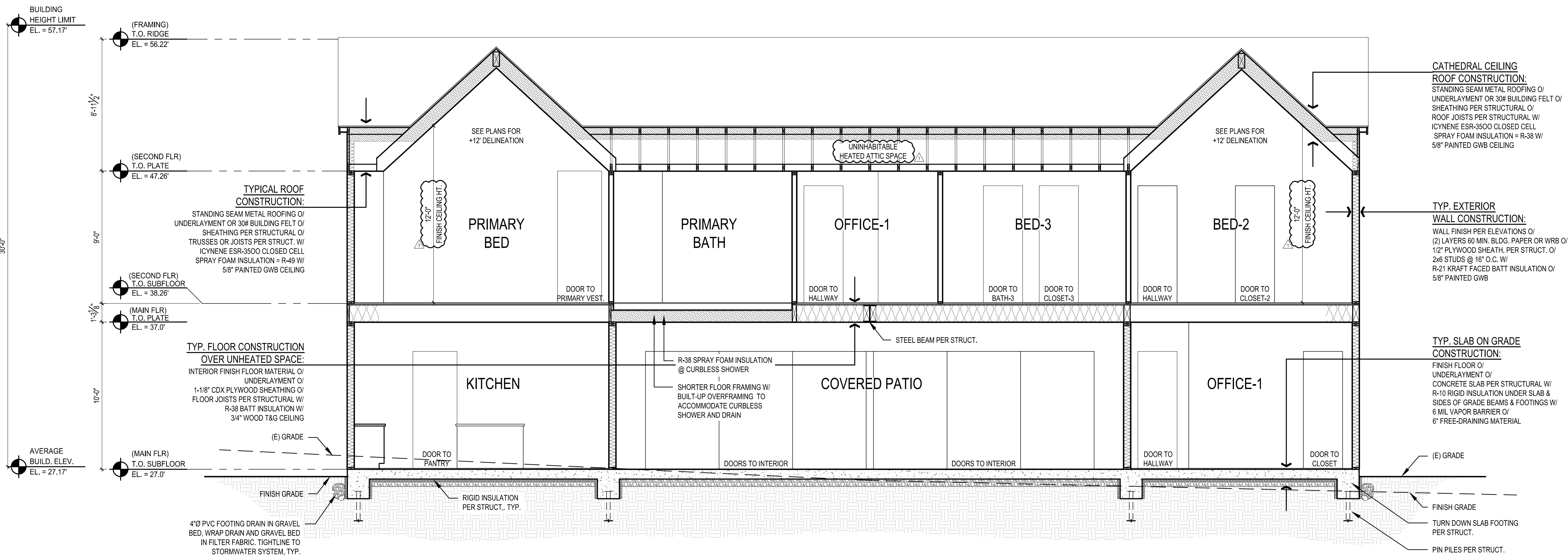
1 BUILDING SECTION
SCALE: 1/4" = 1'-0"



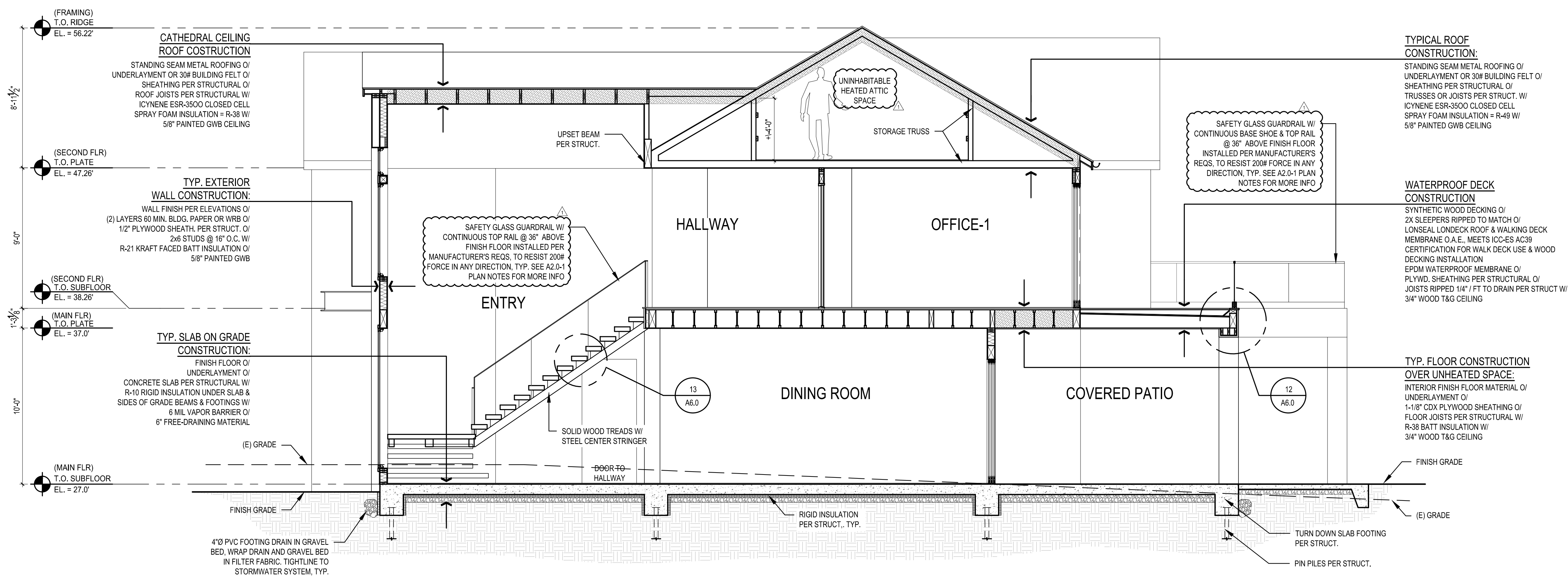
2 BUILDING SECTION
SCALE: 1/4" = 1'-0"



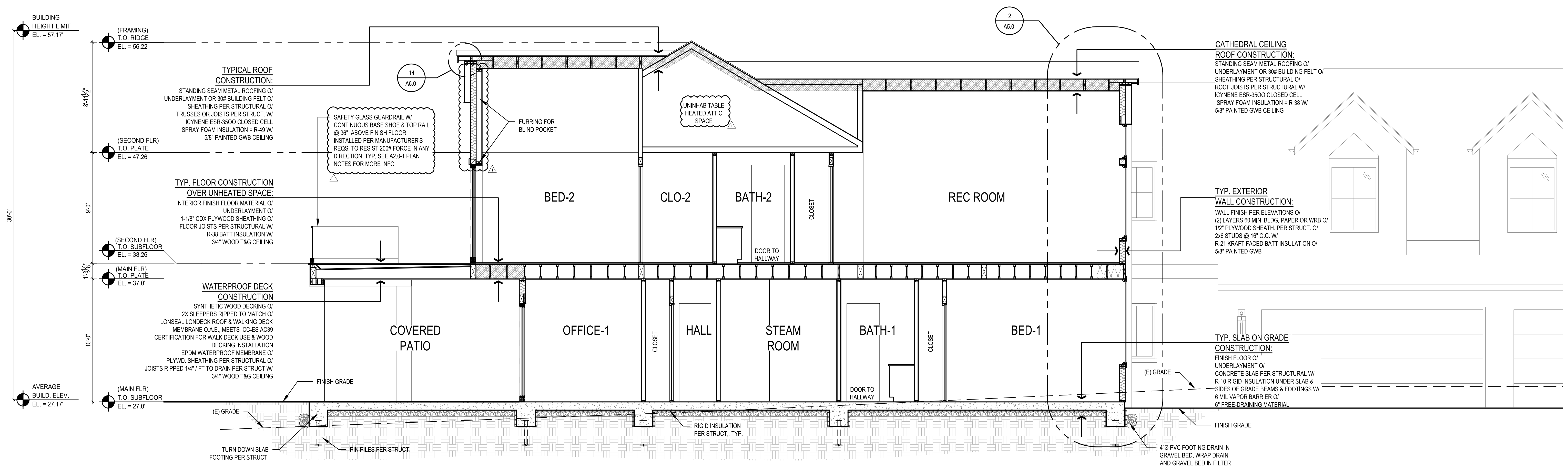
REVISIONS:	
2024-05-13 Corrections #1	
DRAWN BY:	KE
CHECKED BY:	BJS
SHEET	



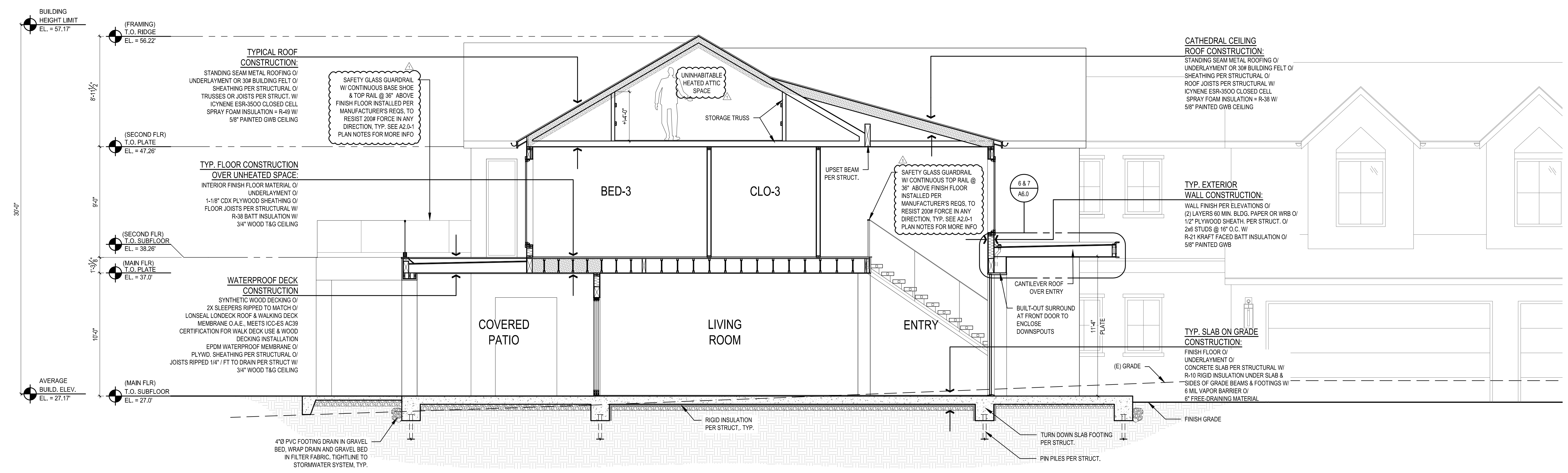
3 BUILDING SECTION
SCALE: 1/4" = 1'-0"



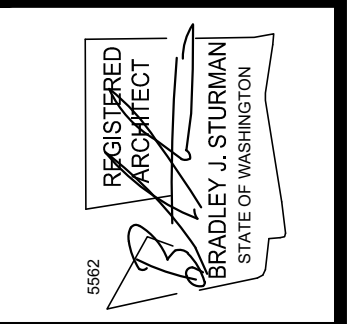
4 BUILDING SECTION
SCALE: 1/4" = 1'-0"



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



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



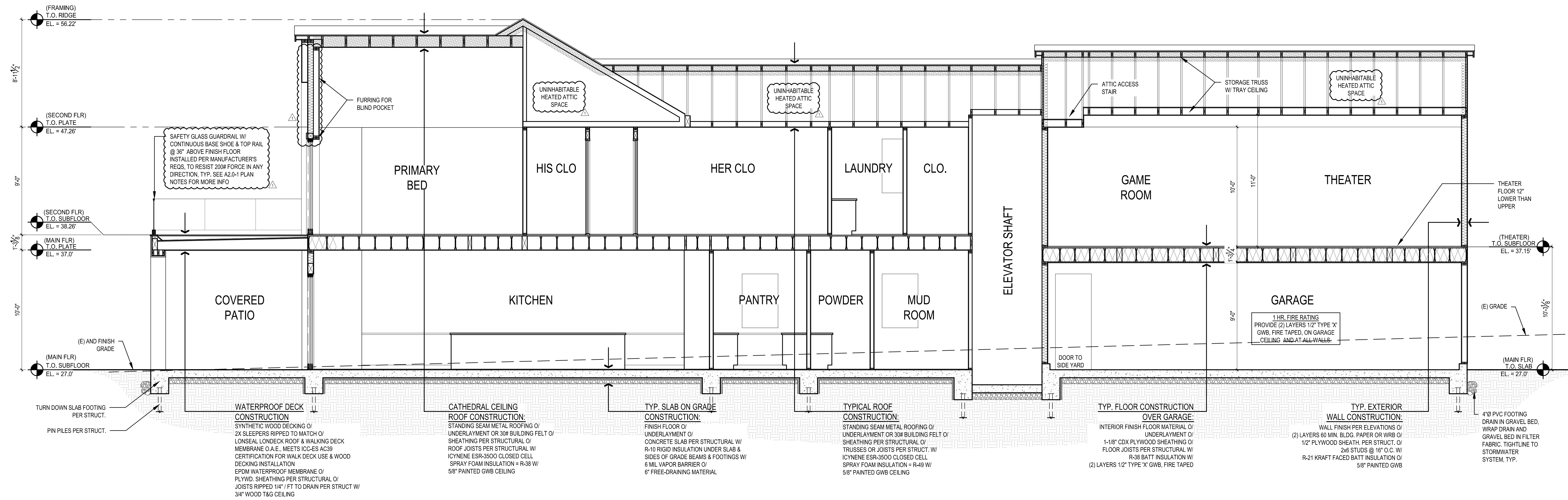
www.sturmanarchitects.com
All Rights Reserved
© 2024

ASDURIAN RESIDENCE
PERMIT SET
5300 BUTTERWORTH RD
MERCER ISLAND, WA 98040

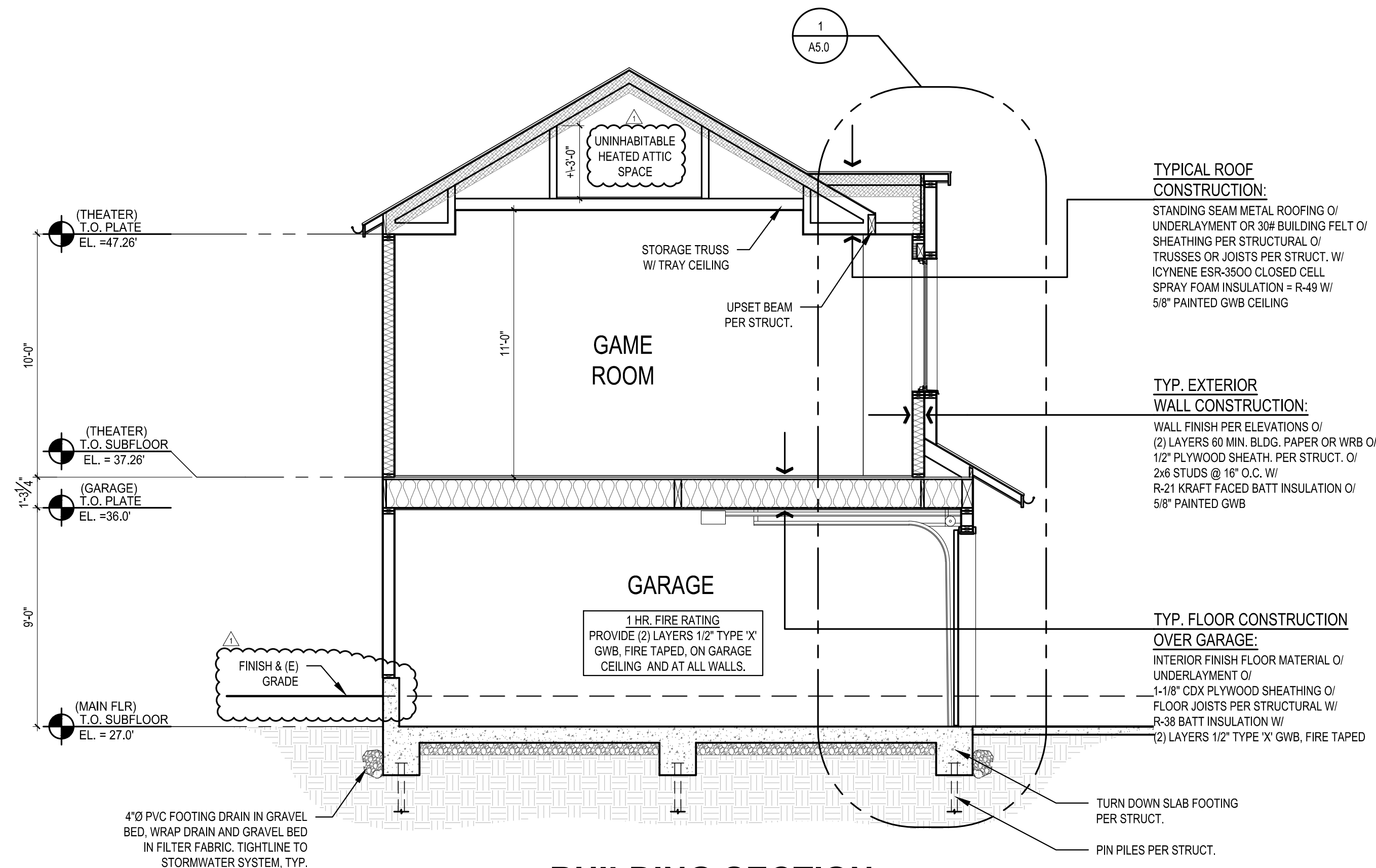
BUILDING SECTIONS

REVISIONS:	
2024-05-13 Connectors #1	
DRAWN BY:	KE
CHECKED BY:	BJS
SHEET	

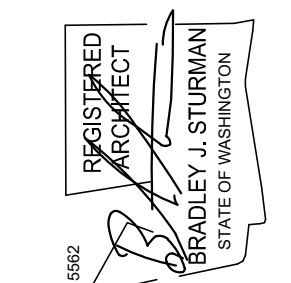
A4.2



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



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



REVISIONS:	
2024-05-13 Connectors #1	

DRAWN BY: KE

CHECKED BY: BUS

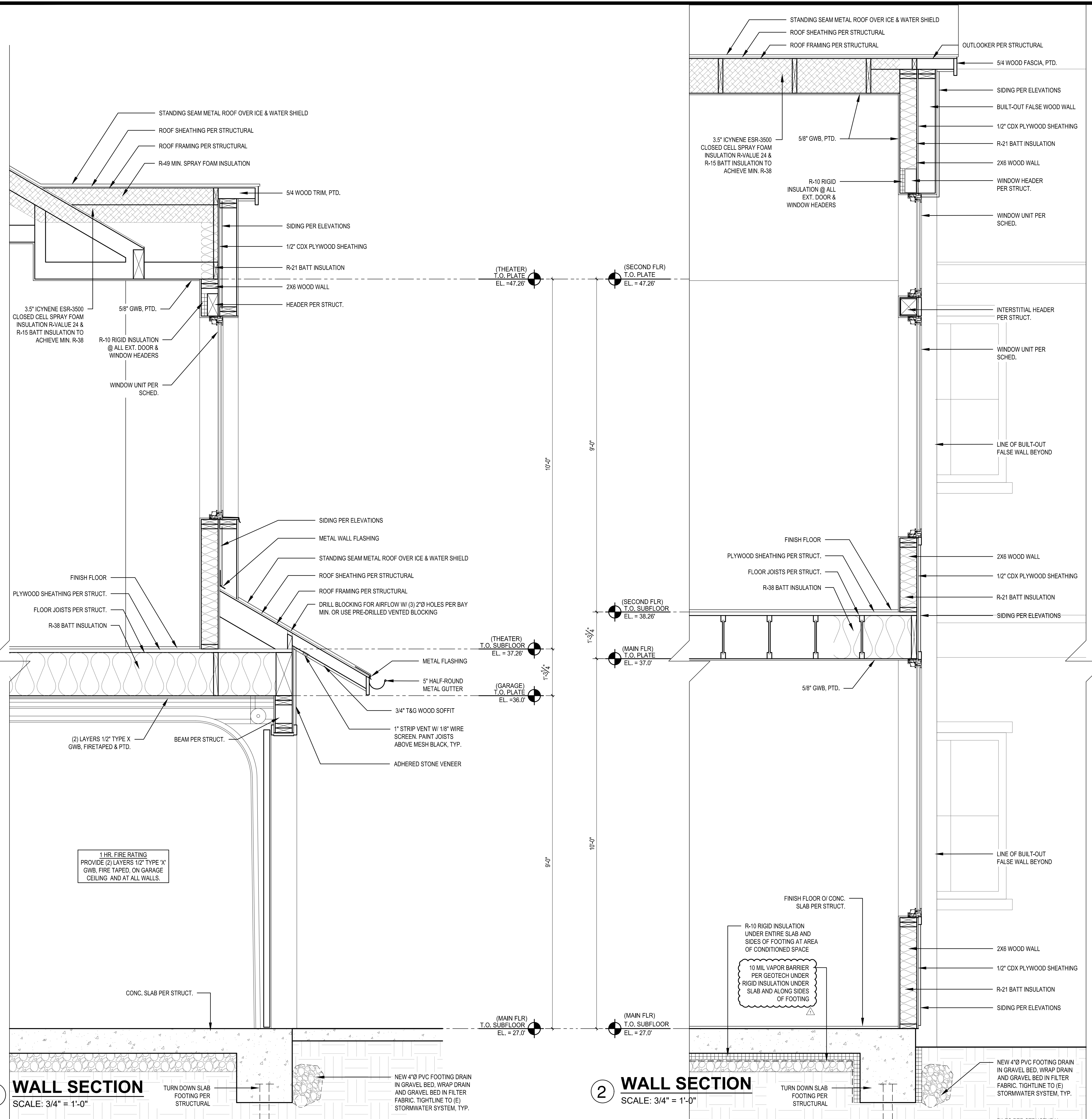
SHEET

A4.3

SCALE: IF SHEET IS LESS THAN 24" X 36", IT IS A REDUCED PRINT, REDUCE SCALE ACCORDINGLY

PERMIT SET 05/13/24

PLOT DATE: 5/13/2024



WINDOW SCHEDULE - ASDOURIAN

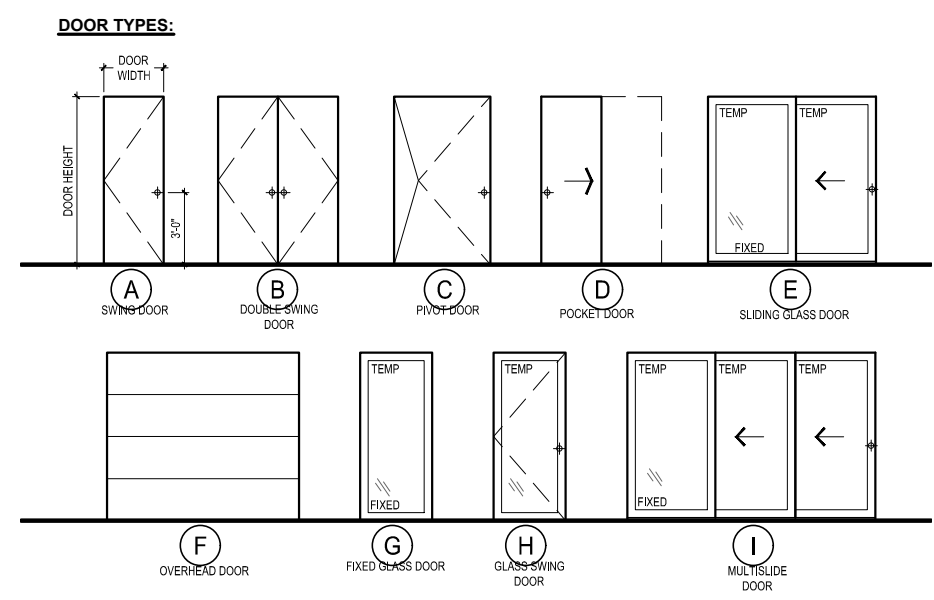
TAG	DESCRIPTION	R.O. SIZE		TEMP.	QTY	AREA (SF)	U-VAL (MIN.)	GLAZING	REMARKS & NOTES
		WIDTH	HEIGHT						
A	FIXED	4'-0"	6'-0"		6		0.28	LOW E / CLEAR	
B	FIXED	4'-0"	7'-0"		2		0.28	LOW E / CLEAR	
C	FIXED	4'-0"	9'-0"	Y	2		0.28	LOW E / CLEAR	TEMPERED GLASS
D	FIXED R	4'-0"	3'-11"		2		0.28	LOW E / CLEAR	TRIANGLE WINDOW
D1	FIXED L	4'-0"	3'-11"		2		0.28	LOW E / CLEAR	TRIANGLE WINDOW
E	FIXED	1'-6"	10'-0"	Y	2		0.28	LOW E / CLEAR	TEMPERED GLASS, SIDE LIGHT
F	CASEMENT	3'-0"	4'-6"	Y	7		0.28	LOW E / CLEAR	TEMPERED GLASS
F1	FIXED	3'-0"	4'-6"		4		0.28	LOW E / CLEAR	
G	CASEMENT	2'-6"	4'-0"		2		0.28	LOW E / CLEAR	
H	CASEMENT	2'-6"	5'-0"		2		0.28	LOW E / CLEAR	EGRESS
J	FIXED	4'-0"	5'-6"		2		0.28	LOW E / CLEAR	
K	FIXED	4'-0"	7'-0"	Y	2		0.28	LOW E / CLEAR	TEMPERED GLASS
L	SLIDER	8'-0"	7'-0"	Y	1		0.28	LOW E / CLEAR	TEMPERED GLASS, EGRESS

DOOR SCHEDULE - ASDOURIAN

DOOR NO.	LOCATION	SIZE	WIDTH	HEIGHT	DOOR TYPE	TEMP. GLASS	DOOR THK.	U-VAL (MIN.)	REMARKS
MAIN FLOOR									
101	ENTRY	5'-0"	10'-0"		PIVOT	Y	1-3/4"	0.28	
102	BEDROOM-2	2'-8"	8'-0"		SW		1-3/4"		
103	BEDROOM-2 CLOSET	PR 2'-8"	8'-0"		SW		1-3/4"		
104	BATH-1	2'-8"	8'-0"		SW		1-3/4"		
105	STEAM ROOM	2'-8"	8'-0"		SW		1-3/4"		
106	STEAM ROOM	2'-8"	8'-0"		SW		1-3/4"		
107	HALL CLOSET	PR 2'-4"	8'-0"		SW		1-3/4"		
108	EXT HALL	2'-8"	8'-0"		SW	Y	1-3/4"	0.28	
109	HALL CLOSET	PR 2'-8"	8'-0"		SW		1-3/4"		
110	OFFICE-1	2'-8"	8'-0"		SW		1-3/4"		
111	OFFICE-1 CLOSET	2'-8"	8'-0"		SW		1-3/4"		
112	OFFICE-1	10'-0"	8'-0"		SLIDE	Y	1-3/4"	0.28	TEMPERED GLASS
113	LIVING ROOM	15'-0"	8'-0"		MULTI	Y	1-3/4"	0.28	TEMPERED GLASS
114	DINING ROOM	15'-0"	8'-0"		MULTI	Y	1-3/4"	0.28	TEMPERED GLASS
115	KITCHEN	5'-0"	8'-0"		FIXED	Y	1-3/4"	0.28	TEMPERED GLASS
116	KITCHEN	10'-0"	8'-0"		SLIDE	Y	1-3/4"	0.28	TEMPERED GLASS
117	POWDER	2'-6"	8'-0"		SW		1-3/4"		
118	MUD ROOM	3'-0"	8'-0"		POCKET		1-3/4"		
119	ELEVATOR	3'-0"	8'-0"		SW		1-3/4"		
120	GARAGE	3'-0"	8'-0"		SW		1-3/4"		20 MIN FIRERATED, SELF-CLOSING
121	GARAGE	18'-0"	8'-0"		OVER		1-3/4"		
122	GARAGE	9'-0"	8'-0"		OVER		1-3/4"		
123	GARAGE	3'-0"	8'-0"		SW		1-3/4"		
124	MECHANICAL	3'-0"	8'-0"		SW		1-3/4"		20 MIN FIRERATED, SELF-CLOSING
125	NOT USED								
UPPER FLOOR									
201	REC ROOM	2'-8"	8'-0"		SW		1-3/4"		
202	REC ROOM CLOSET	2'-8"	8'-0"		SW		1-3/4"		
203	HALL CLOSET	2'-8"	8'-0"		SW		1-3/4"		
204	BATH-2	2'-8"	8'-0"		SW		1-3/4"		
205	HALL CLOSET	PR 2'-8"	8'-0"		SW		1-3/4"		
206	BEDROOM-2	2'-8"	8'-0"		SW		1-3/4"		
207	BEDROOM-2 CLOSET	2'-8"	8'-0"		POCKET		1-3/4"		
208	BEDROOM-2	10'-0"	8'-0"		SLIDE	Y	1-3/4"	0.28	TEMPERED GLASS
209	BEDROOM-3	2'-8"	8'-0"		SW		1-3/4"		
210	BEDROOM-3 CLOSET	2'-8"	8'-0"		SW		1-3/4"		
211	BATHROOM-3	2'-8"	8'-0"		SW		1-3/4"		
212	NOT USED								
213	OFFICE-2	2'-8"	8'-0"		SW		1-3/4"		
214	OFFICE-2	8'-0"	8'-0"		SLIDE	Y	1-3/4"	0.28	TEMPERED GLASS
215	PRIMARY VESTIBULE	PR 2'-6"	8'-0"		SW		1-3/4"		
216	PRIMARY BATH	2'-8"	8'-0"		SW		1-3/4"		
217	PRIMARY BATH	2'-8"	8'-0"		SW		1-3/4"		
218	NOT USED								
219	HIS CLOSET	2'-8"	8'-0"		SW		1-3/4"		
220	HIS CLOSET	2'-8"	8'-0"		SW		1-3/4"		
221	PRIMARY BEDROOM	10'-0"	8'-0"		SLIDE	Y	1-3/4"	0.28	TEMPERED GLASS
222	EXERCISE	2'-8"	8'-0"		SW		1-3/4"		
223	LAUNDRY	3'-0"	8'-0"		SW		1-3/4"		
224	HALL CLOSET	3'-0"	8'-0"		SW		1-3/4"		
225	MEDIA ROOM	3'-0"	8'-0"		SW		1-3/4"		
226	ELEVATOR	3'-0"	8'-0"		SW		1-3/4"		
227	BATH-4	2'-8"	8'-0"		SW		1-3/4"		

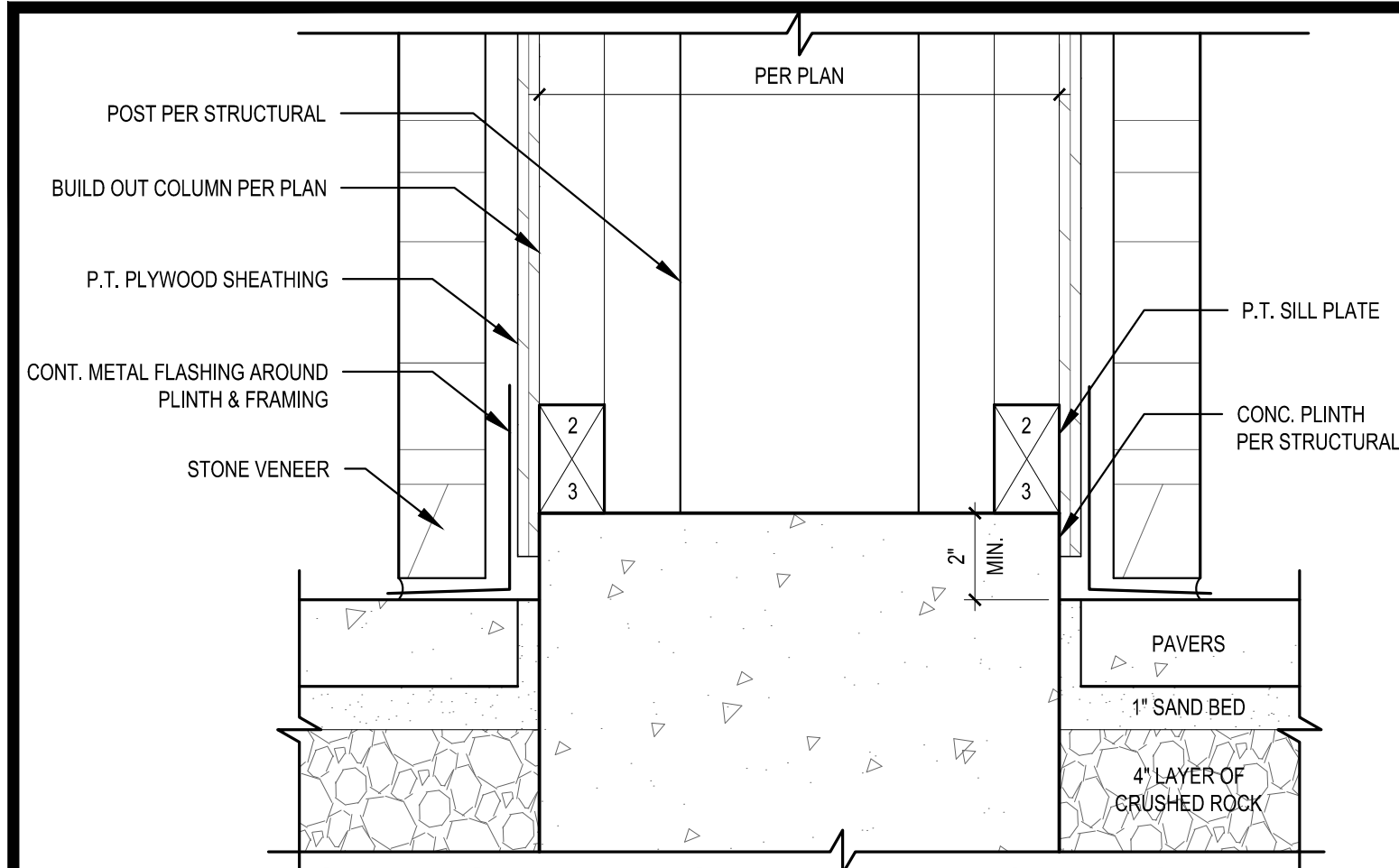
WINDOW & DOOR SCHEDULE NOTES:

- CONTRACTOR TO VERIFY ALL GLAZING SIZING, AND DOOR DIMENSIONS IN FIELD PRIOR TO ROUGH FRAMING & ORDERING OF GLAZING WINDOW/DOOR MATERIALS. REVIEW SIZES AND ANY DISCREPANCIES W/ ARCHITECT.
- ALL GLAZING TO BE "LOW E", INSULATED GLASS UNLESS NOTED OTHERWISE.
- ALL OPERABLE WINDOWS TO HAVE SCREENS.
- GLAZING INDOORS AND/OR WITHIN 24" OF A DOOR TO BE TEMPERED. SEE EXTERIOR ELEVATION FOR TEMP. GLASS LOCATION & EGRESS WINDOWS.
- 2018 WISC & VAQ RESIDENTIAL PRESCRIPTIVE OPTION 3 ADOPTED. GLAZING AREA INDICATED UNLIMITED. SEE ENERGY NOTE AT A1.0 SHEET FOR DETAILS.
- ALL WINDOWS AND DOORS WITHOUT A BUG ARE EXISTING TO REMAIN.

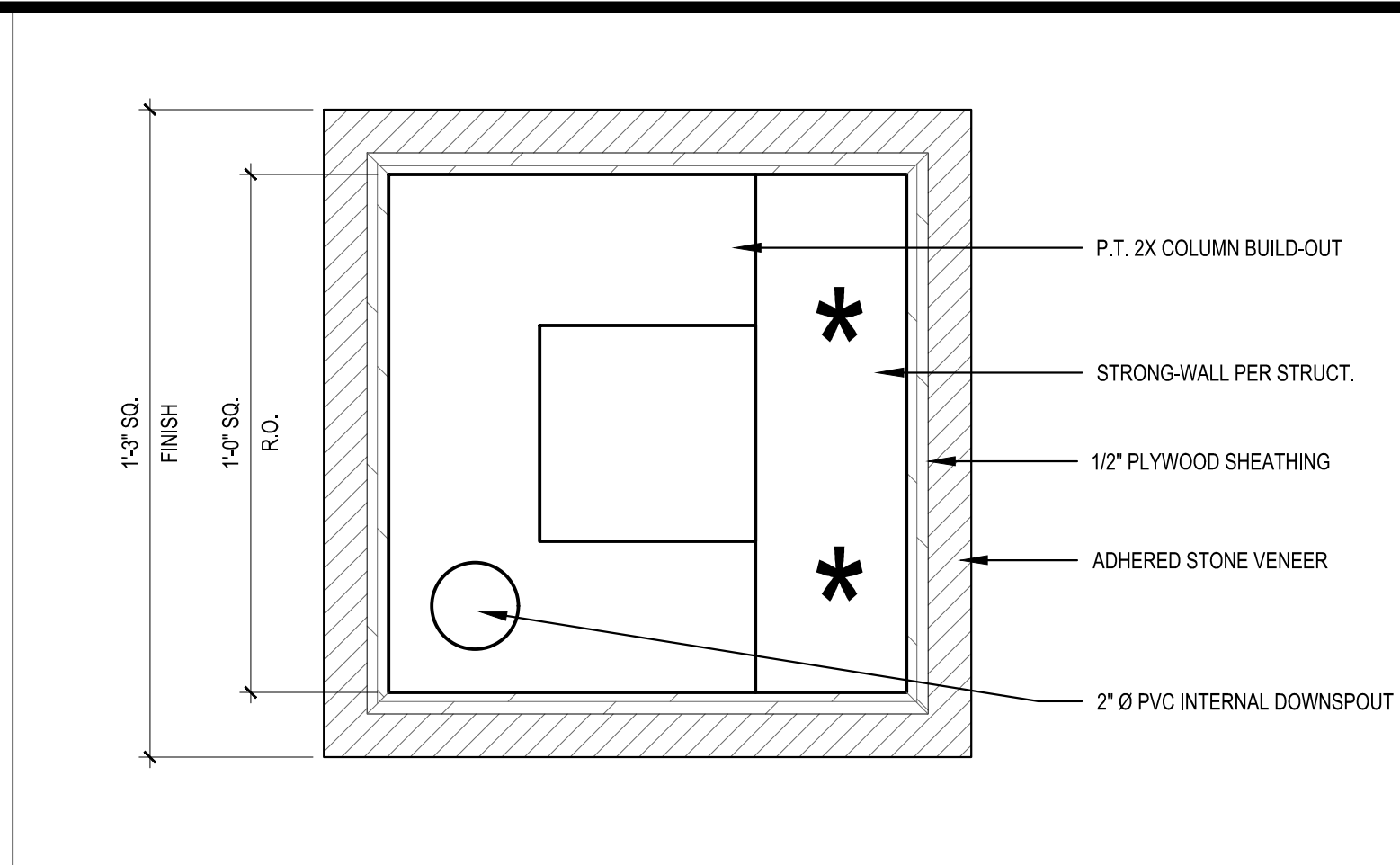


1 WALL SECTION
SCALE: 3/4" = 1'-0"

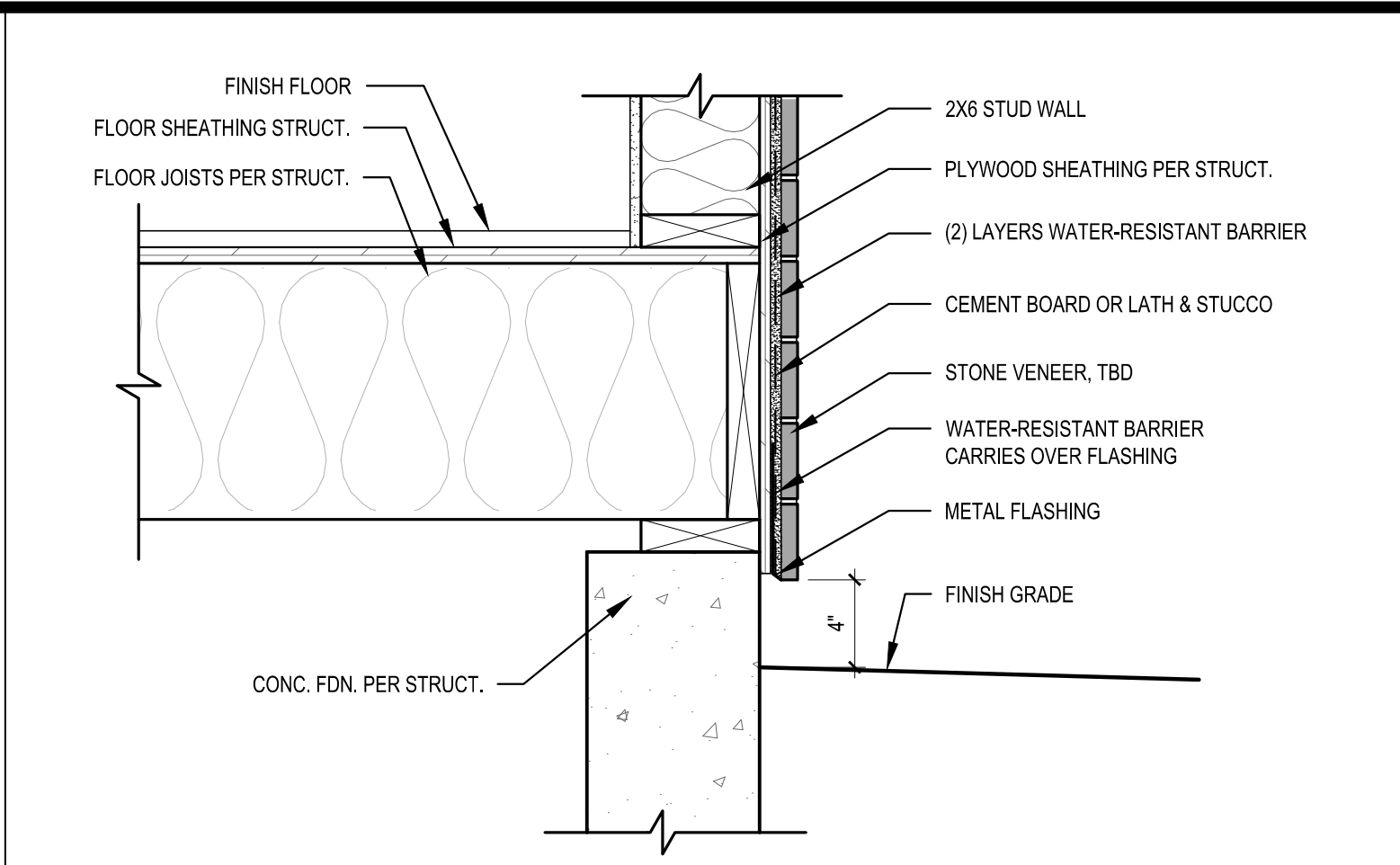
2 WALL SECTION
SCALE: 3/4" = 1'-0"



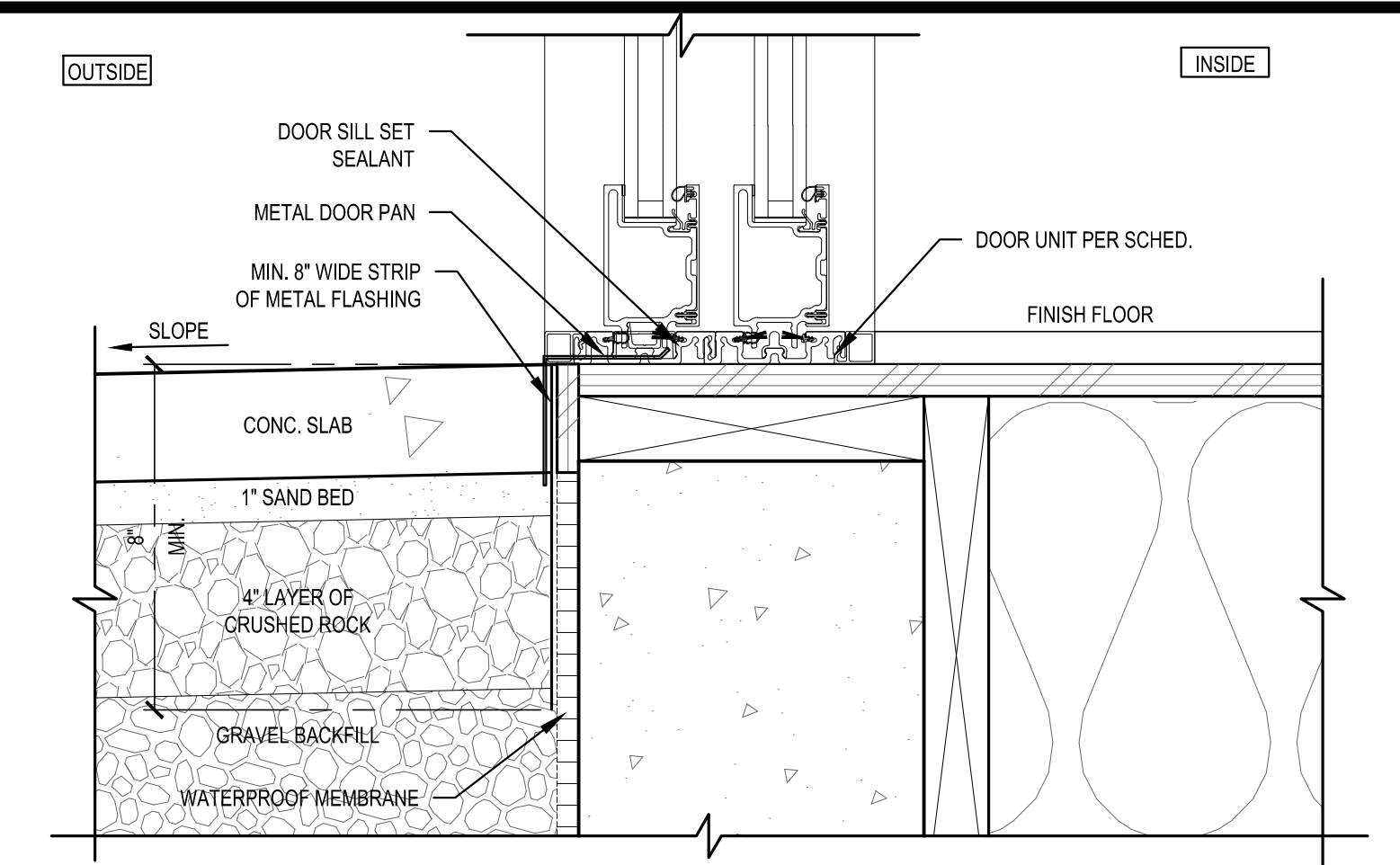
1 BUILT-OUT COLUMN CONC. PLINTH SECTION
SCALE: 3" = 1'-0"



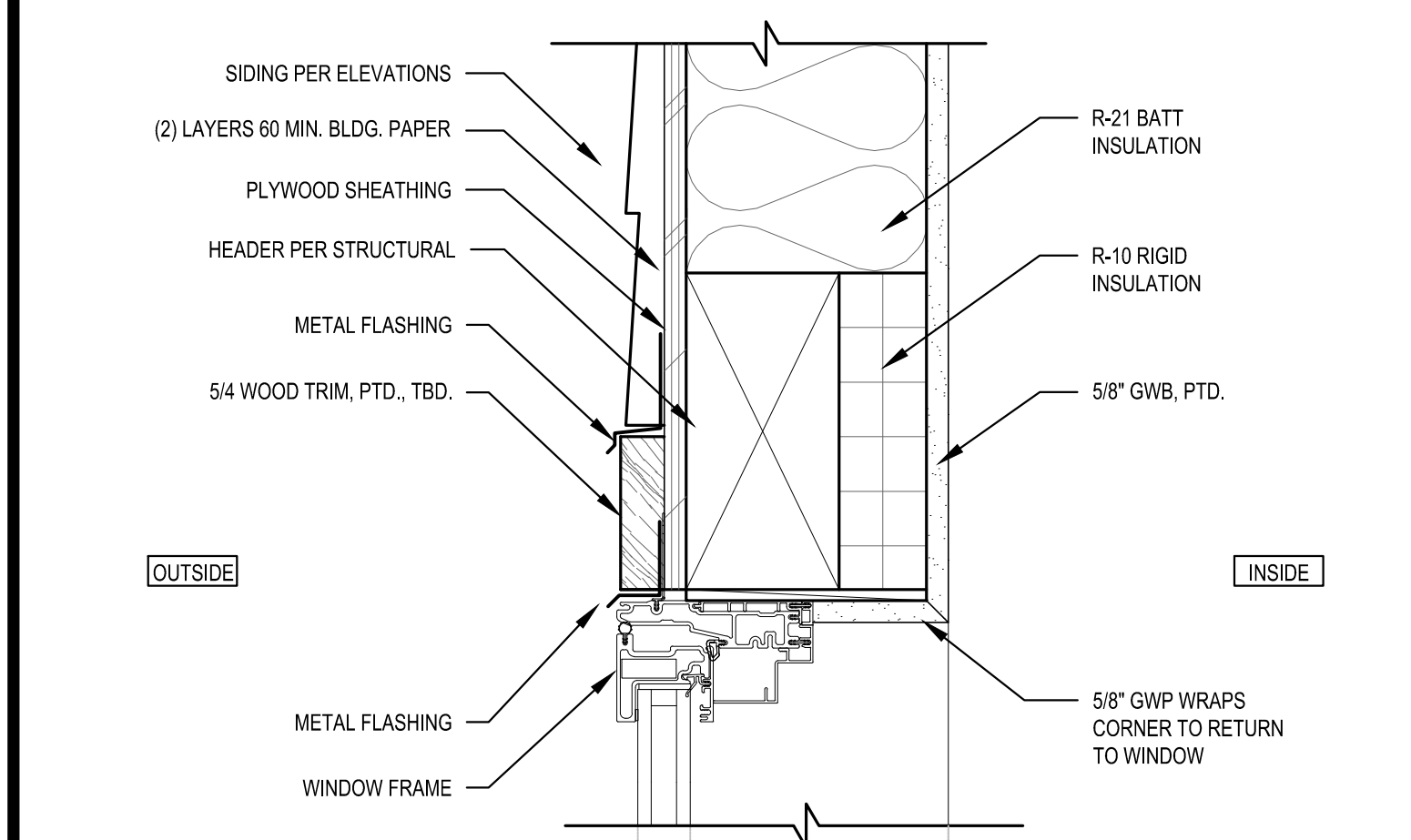
2 BUILT-OUT EXTERIOR COLUMN PLAN
SCALE: 3" = 1'-0"



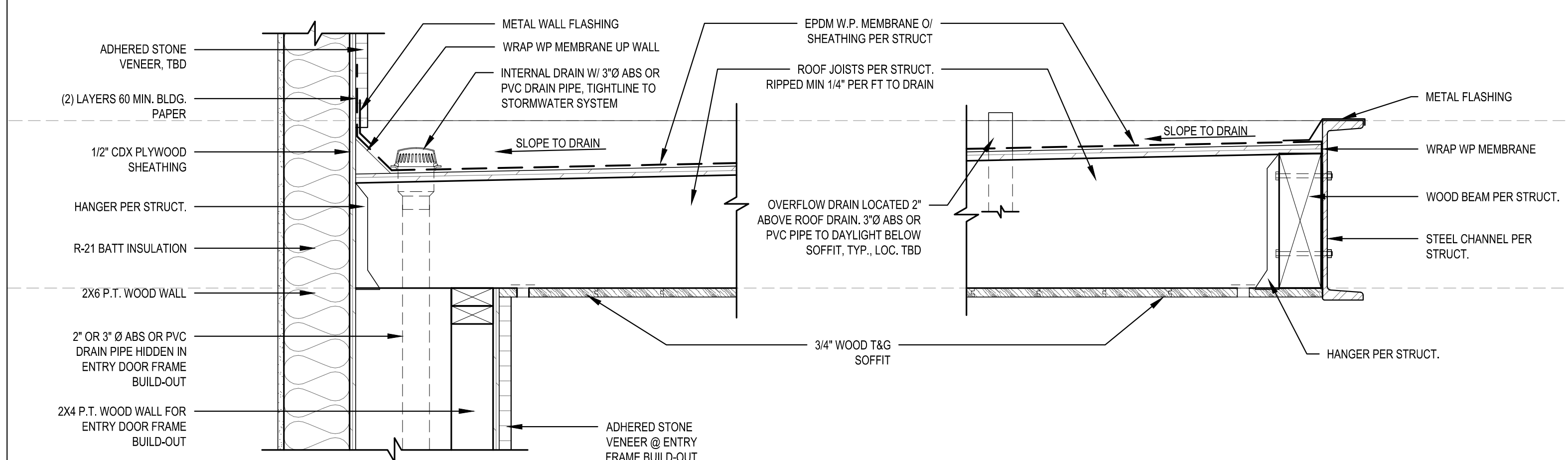
3 TYP. STONE VENEER AT STUD WALL
SCALE: 1 1/2" = 1'-0"



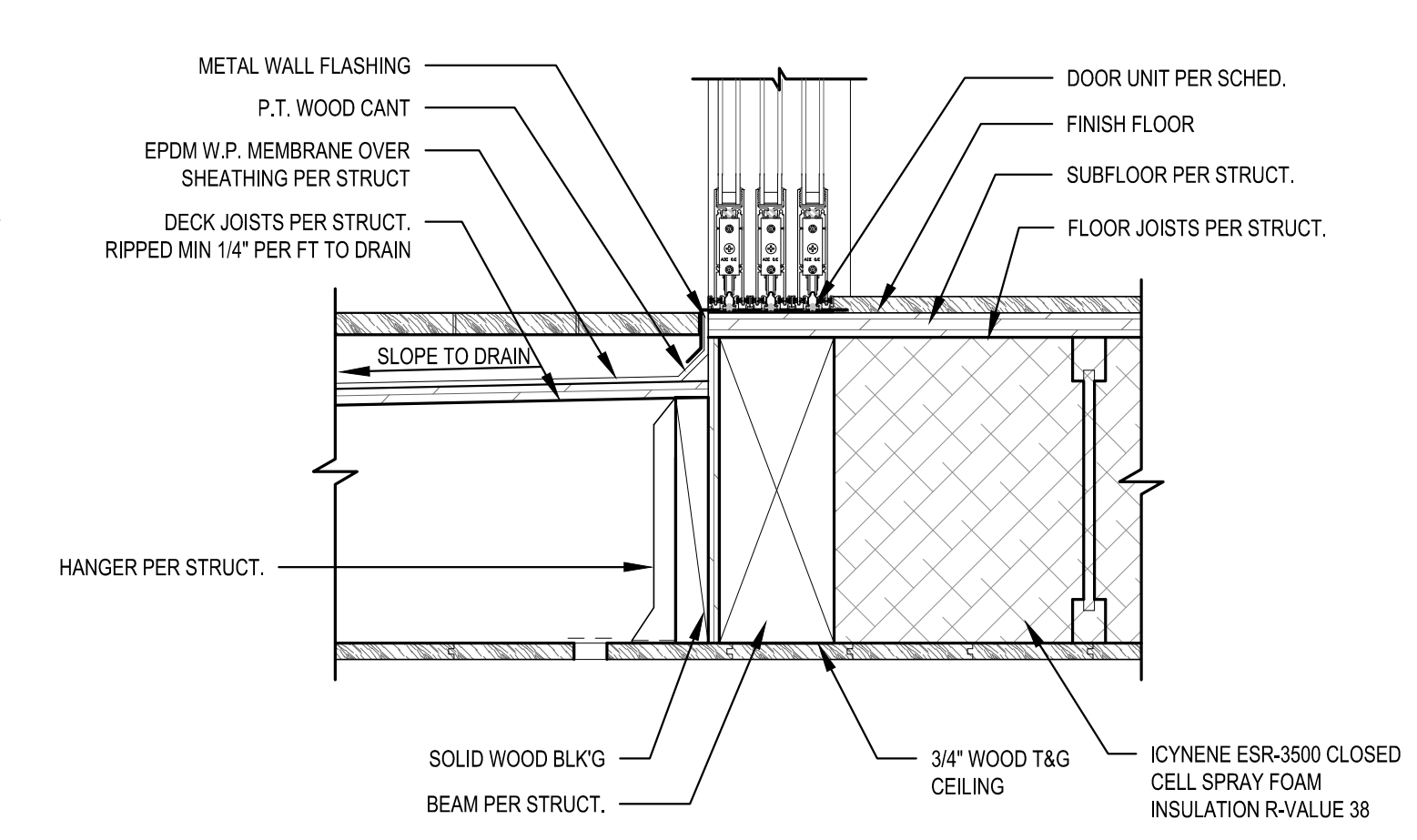
4 FLASHING DETAIL @ FLUSH THRESHOLD
SCALE: 3" = 1'-0"



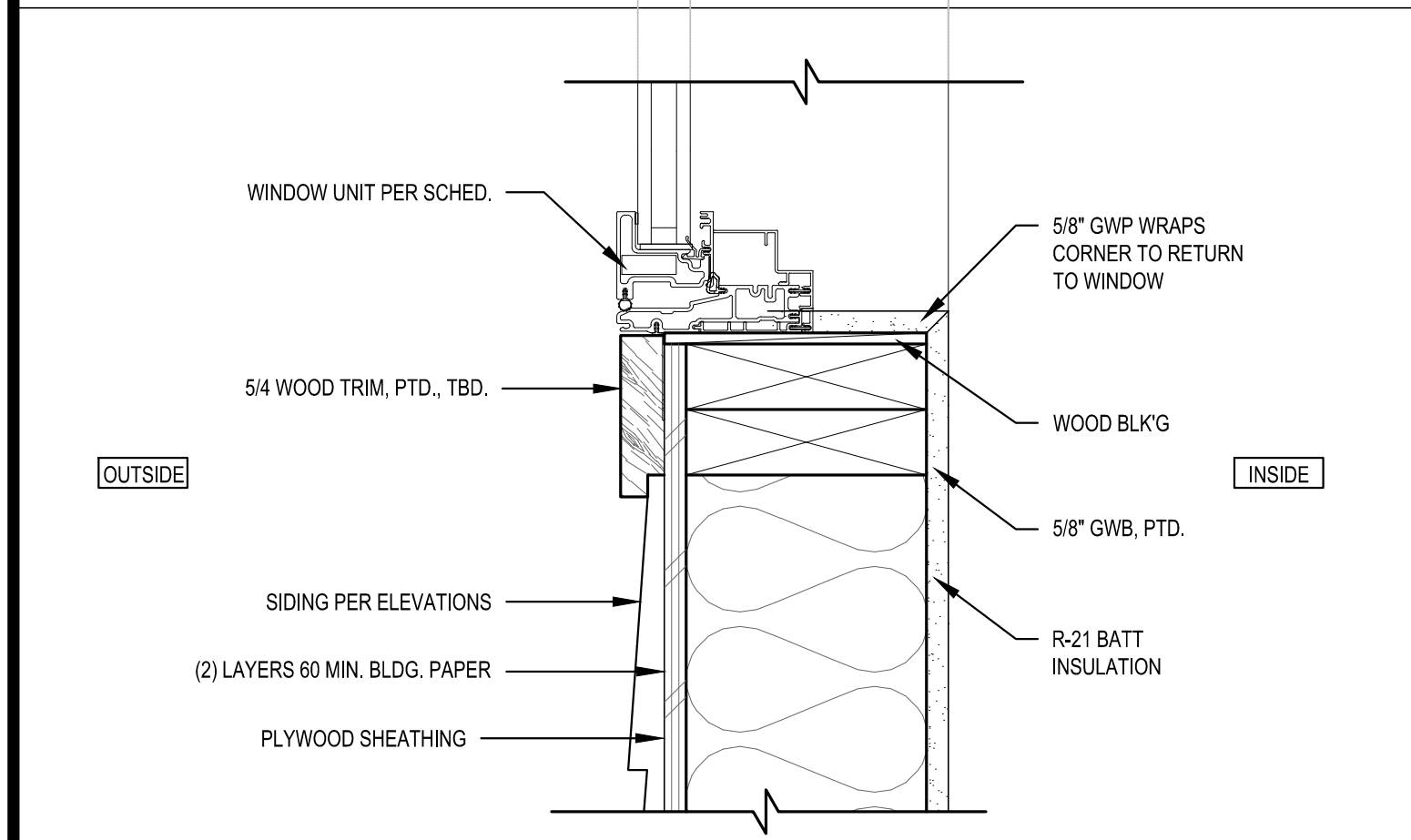
5 TYP. WINDOW HEAD DETAIL
SCALE: 3" = 1'-0"
SIM. AT WINDOW JAMB



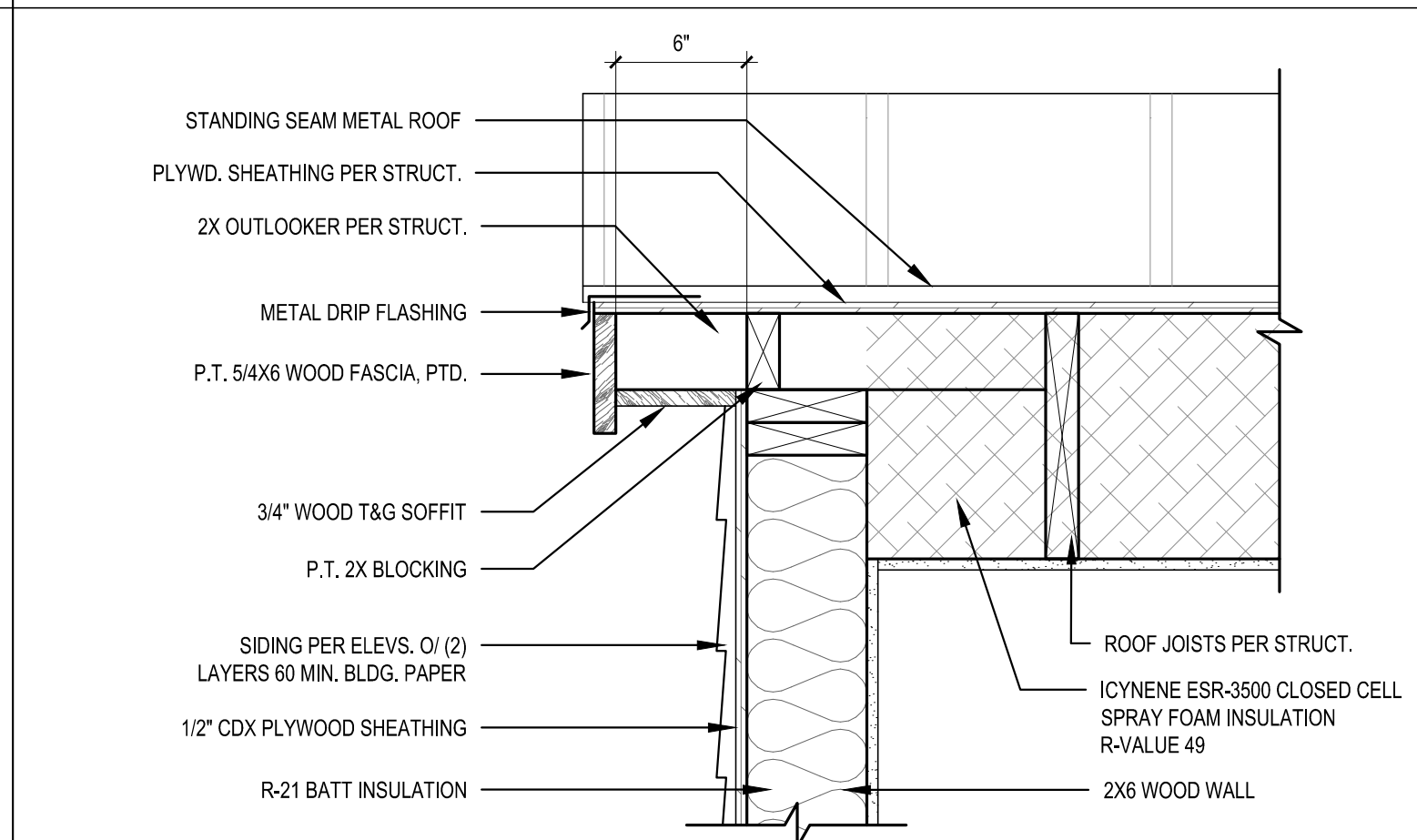
6 ENTRY ROOF DETAIL @ HOUSE
SCALE: 1-1/2" = 1'-0"



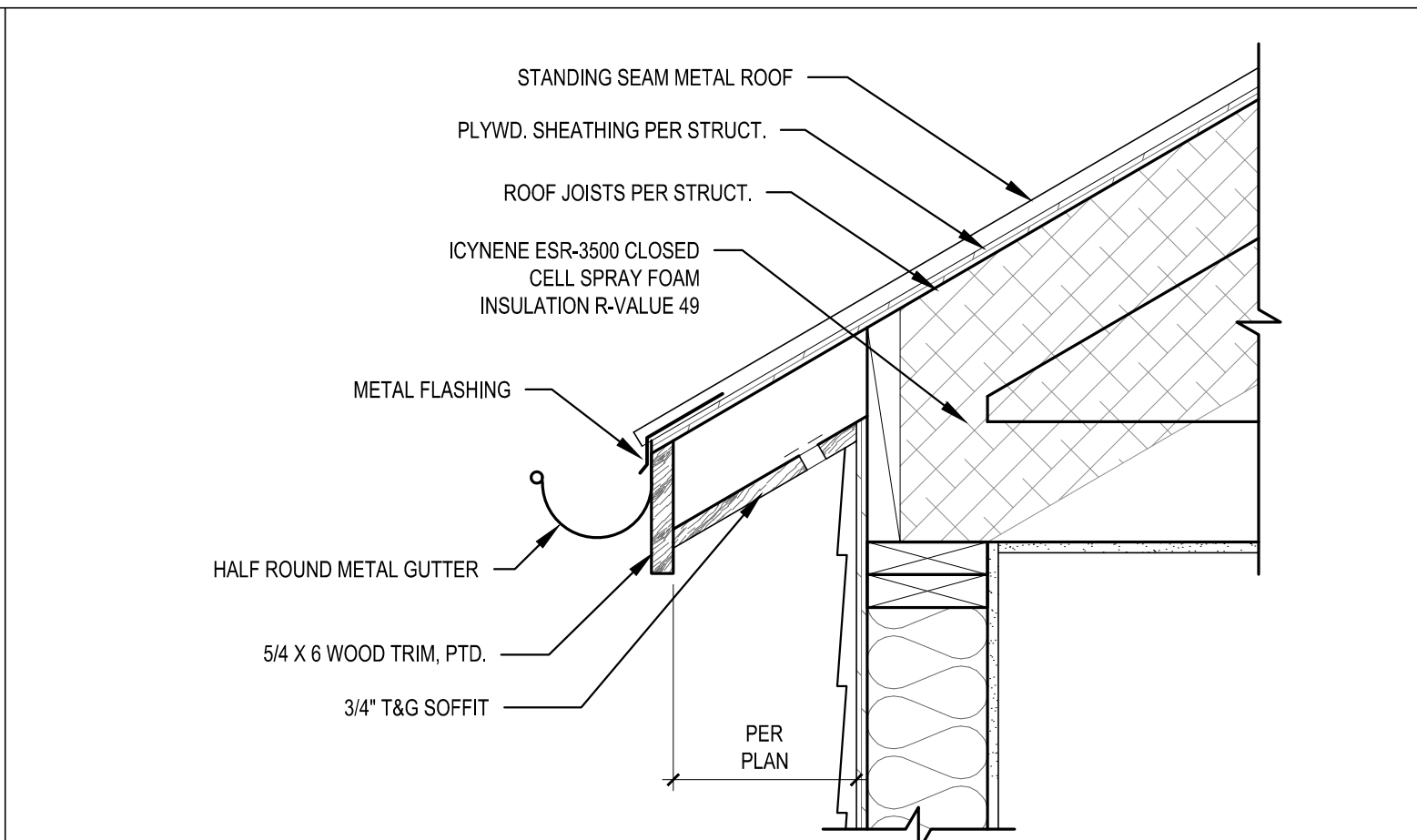
8 THRESHOLD @ DECK SECTION DETAIL
SCALE: 1-1/2" = 1'-0"



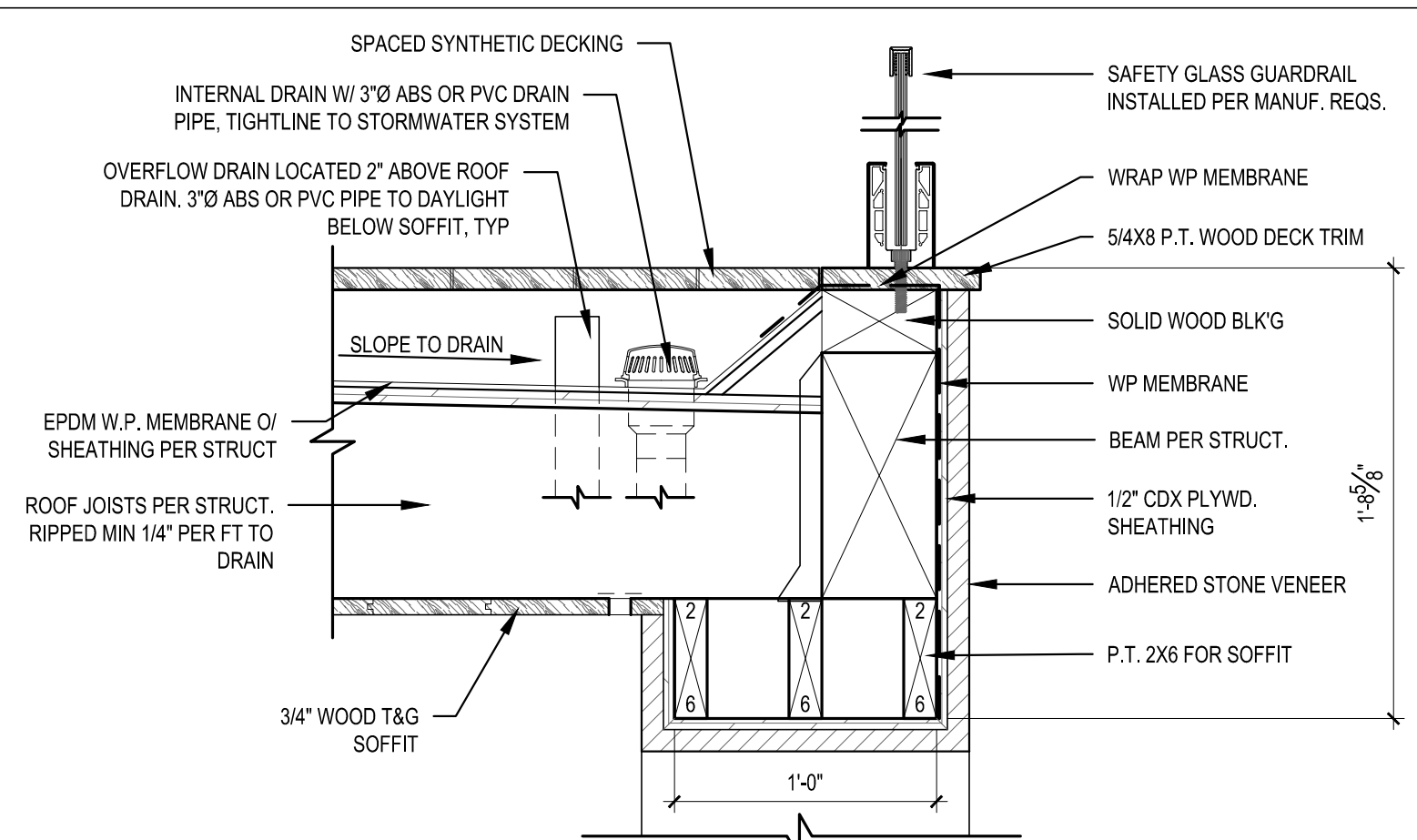
9 TYP. WINDOW SILL DETAIL
SCALE: 3" = 1'-0"



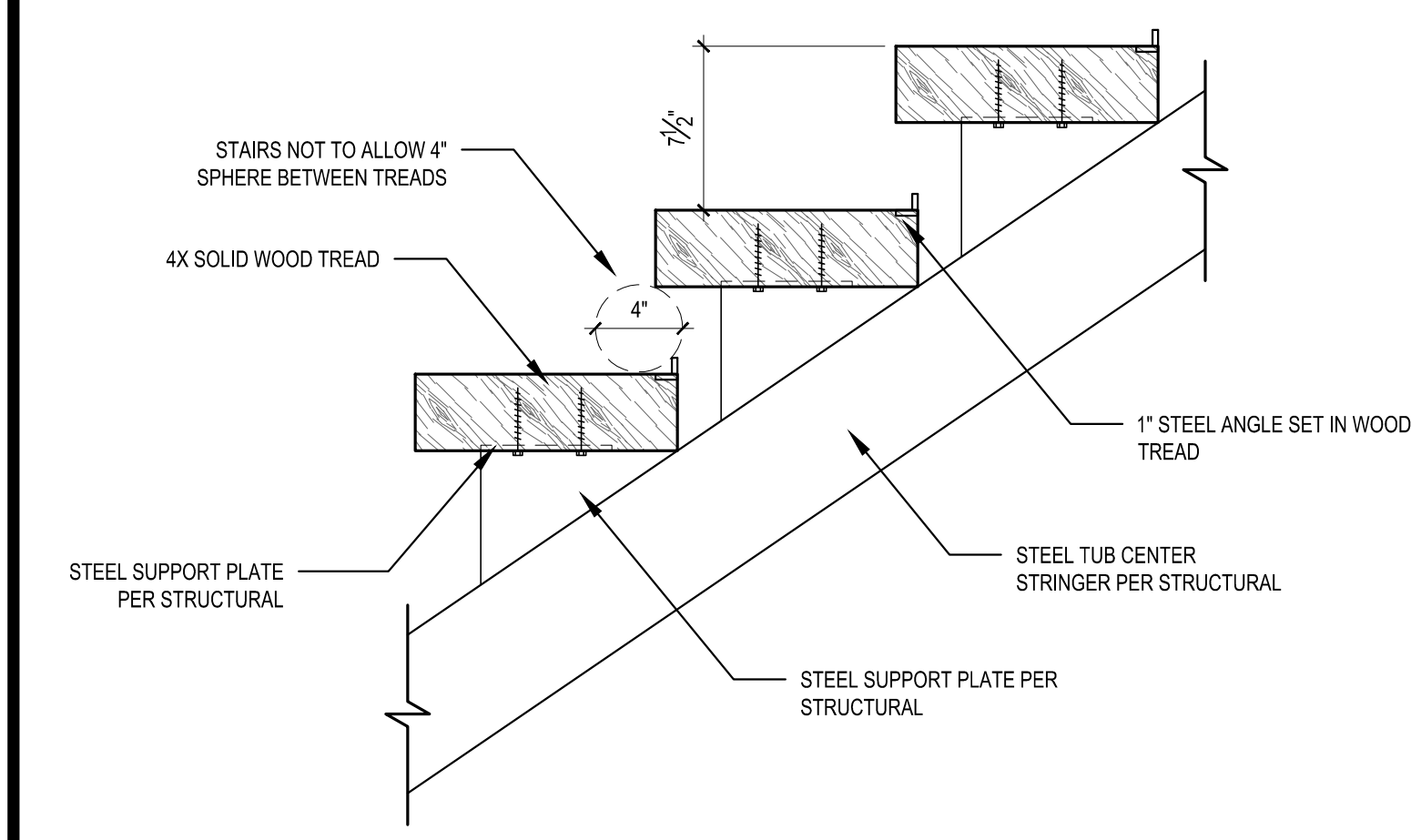
10 TYPICAL RAKE DETAIL
SCALE: 1-1/2" = 1'-0"



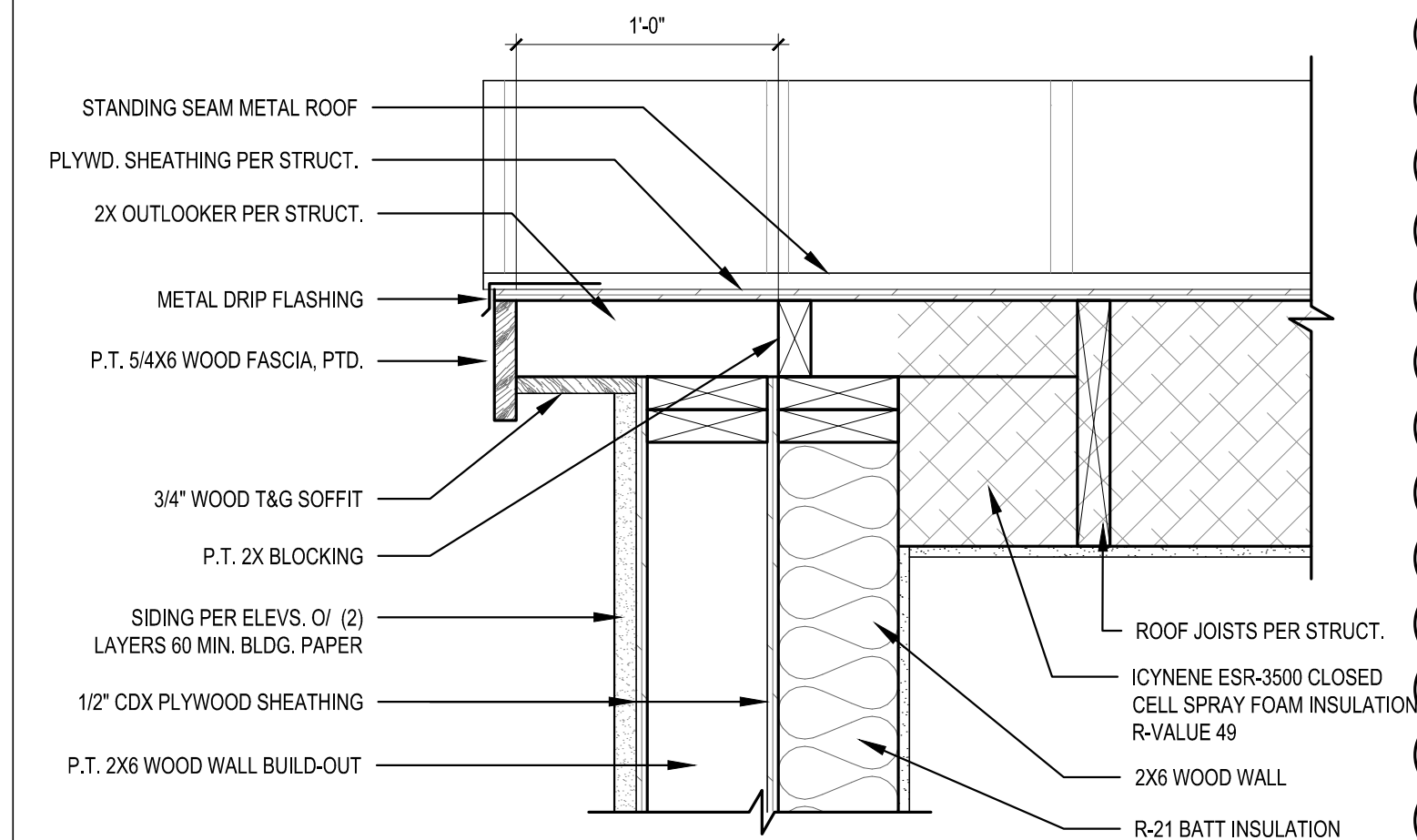
11 TYPICAL EAVE DETAIL
SCALE: 1-1/2" = 1'-0"



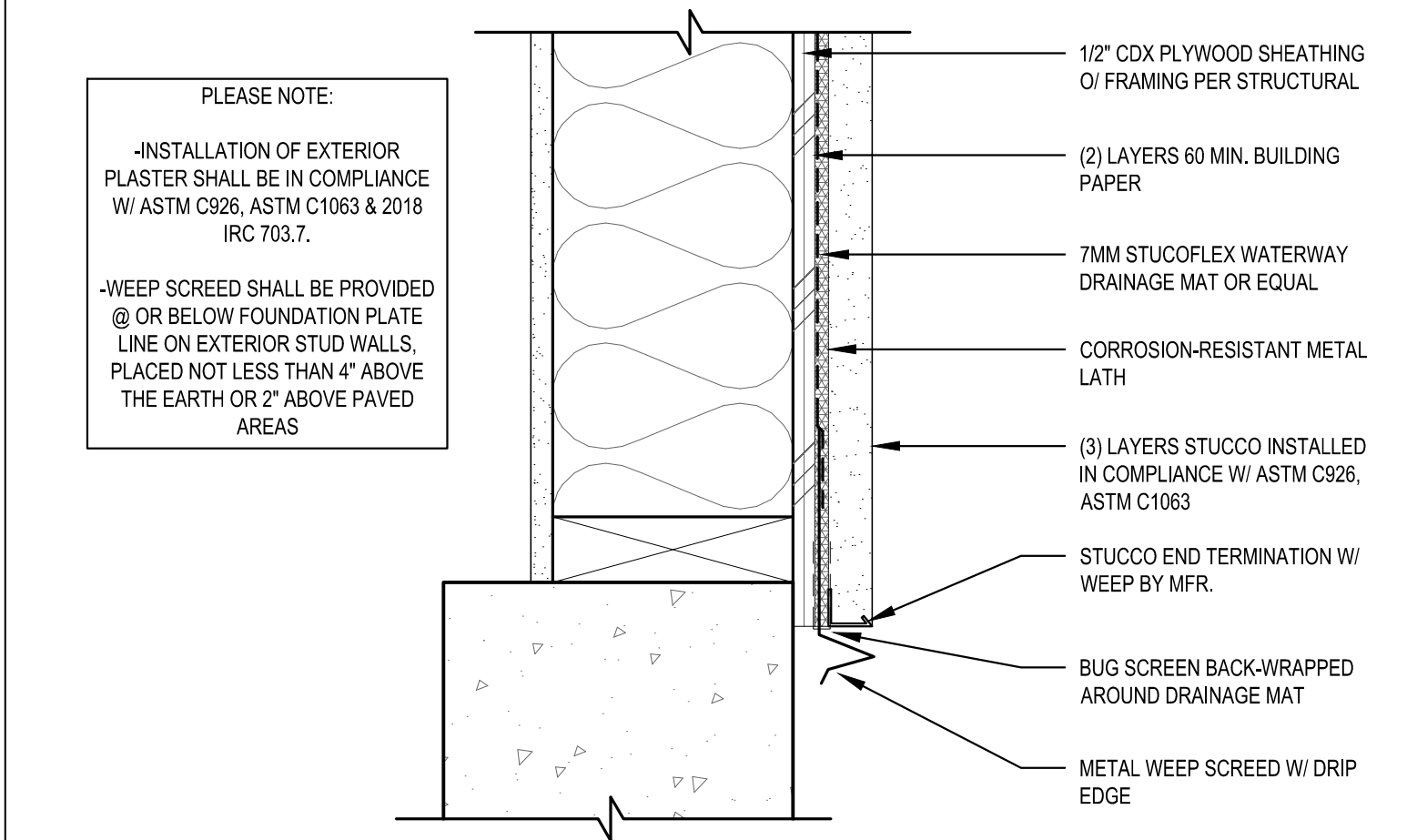
12 DECK FASCIA/GUARDRAIL ATTACHMENT
SCALE: 1-1/2" = 1'-0"



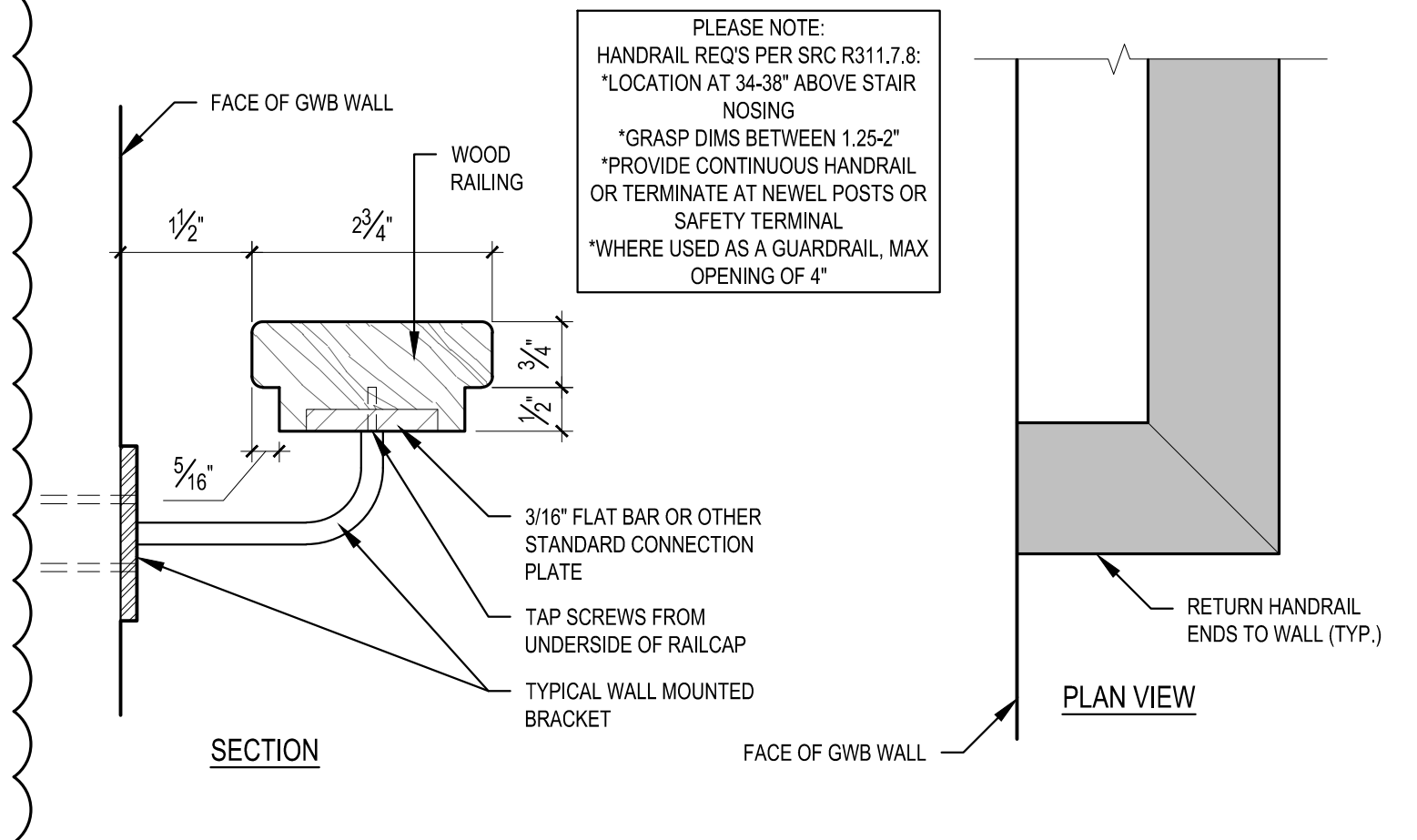
13 TYP. INTERIOR STAIR DETAIL
SCALE: 1-1/2" = 1'-0"



14 RAKE DETAIL @ EXT. WALL BUILD-OUTS
SCALE: 1-1/2" = 1'-0"



15 TYP. STUCCO SECTION DETAIL
SCALE: 3" = 1'-0"



16 HANDRAIL DETAIL
SCALE: 6" = 1'-0"

SCALE: IF SHEET IS LESS THAN 24" X 36", IT IS A REDUCED PRINT, REDUCE SCALE ACCORDINGLY.

GENERAL NOTES

1.0 GENERAL

- 1.1 Construction shall conform to the 2018 INTERNATIONAL RESIDENTIAL CODE and all other requirements of authorities having jurisdiction.
1.2 These drawings are the property of O.G. Engineering, PLLC ("Engineer").
1.3 Refer to Architectural Plans for all dimensions and elevations not shown.
1.4 The contractor shall be solely responsible for jobsite and construction safety and compliance with all current safety regulations.
1.5 Utility information is not shown on these drawings.
1.6 All waterproofing and drainage information shown on these drawings is for illustrative purposes only.

2.0 DESIGN BASIS - BUILDING STRUCTURES

Table with 4 columns: Vertical Loads (psf, U.O.N.), Dead, Live, Snow. Rows include Truss Roof, Stick-Framed Roof, Roof Deck, Upper Floor, Main Floor, Patio, Garage.

1Includes 4psf for solar-ready zones.
2At attic spaces where occurs.
3Includes weight of concrete slab.

- 2.2 Seismic Design Data (per the 2018 IBC)
Risk Category: II
Importance Factor: Ie=1.0
Site Coordinates: 47.5559°N, 122.2098°W
Mapped Spectral Response Acceleration: Ss=1.44, S1=0.50
Site Class: E (used Fa = 1.2 for Site Class C per ASCE 7-16)
Section 11.4.8 exception 1)
Spectral Response Coefficients: Sds=1.15
Seismic Design Category: D
Main Seismic Force-Resisting System: Wood Structural Panel
Shear Walls
Response Modification Factor: R=6.5
Seismic Response Coefficient: Cs=0.18
Redundancy Factor: rho=1.0
Over-strength Factor: Omega=2.5
Analysis Procedure Used: Equivalent Lateral Force Procedure

- 2.3 Wind Design Data (per the 2018 IBC)
Risk Category: II
Basic Wind Speed: 98 mph
Exposure Category: C
Topographic Factor: 1.00 (Per Mercer Island Wind Load Map)

3.0 INSPECTIONS

The construction work shall be inspected as required by the IRC Section R106. The contractor is solely responsible for understanding the requirements of and coordinating all inspections, observations and testing and ensuring that all work is performed to the satisfaction of the inspector.

4.0 FOUNDATIONS

- 4.1 New foundations have been designed in accordance with recommendations in the Geotechnical Report.
4.1.1 The suspended slabs and pin pile-supported grade beams being utilized for the foundation are intended to provide vertical support for the building below the liquefy-able layer, mitigating any significant liquefaction-induced vertical settlement of the foundation and superstructure.

- 4.2 All site preparation, grading, earthwork and site drainage, including but not limited to sub-grade preparation, pile installation and testing, foundation and retaining wall excavations, structural fill specifications, compaction requirements, and site drainage installation, shall be performed in accordance with the Geotechnical Report prepared by the Geotechnical Engineer, Geotech Consultants, Inc., dated March 7th, 2023.

5.0 MATERIALS

- 5.1 Wood:
5.1.1 All 2x & 3x sawn lumber shall be Hem Fir grade number 2, except sill plates which shall be Doug Fir grade number 2 or better, and all 4x and larger lumber shall be Doug Fir grade number 1, U.O.N.
5.1.2 Engineered Wood Framing Members and I-Joists shall be TrusJoist® or approved equal.
5.1.3 Glulam framing members shall be DF/DF, stress class 24F-1.8E, combination symbol 24F-V8, U.O.N.
5.1.4 All wood framing members shall have 19% maximum moisture content at time of installation.

5.2 Concrete:

Hardrock, normal-weight concrete with a minimum 28-day compressive strength of 3,000 psi. Slump range shall be 3-5 inches. Maximum aggregate size shall be 1".

5.3 Reinforcing Steel Bars:

ASTM A615, Grade 60

5.4 Post-Installed Dowels & Anchors into Existing Concrete & CMU

Epoxy: Simpson SET-3G (Installed & inspected per ICC No. ESR-4057)

5.5 Bolts and Threaded Rods:

- 5.5.1 Threaded Rod: ASTM F1554 Grade 36
5.5.2 Sill Anchor Bolts: ASTM A307
Bent bar "J" anchor bolts shall have a hook with a 90-degree bend with an inside diameter of three bolt diameters, plus an extension of one and one half bolt diameters at the free end.
5.5.3 Bolts in Timber Connections: ASTM A307
5.5.4 Bolts in Steel Connections: ASTM A325-N (High-Strength)

5.6 Structural Steel:

Wide Flange (W): A992 (Fy = 50 ksi)
Rectangular Tube (HSS): A500 Gr. B (Fy = 46 ksi)
Plate and Bar: A36 (Fy = 36 ksi)

6.0 CONCRETE CONSTRUCTION

- 6.1 Concrete elements shall be constructed in single continuous pours, without construction joints, unless otherwise approved by the Engineer.
6.2 Reinforcement installation details, including rebar bends, hooks, splices and development lengths shall be in accordance with the requirements of IRC Section R608.5.4, U.O.N.
6.3 Concrete Coverage over Reinforcing Steel

Unless otherwise noted, maintain the minimum concrete cover to face of reinforcement or anchors as follows:
1) 3" Where concrete is cast against and permanently exposed to earth except slab on grade.
2) 2" Where concrete is exposed to earth but formed, or exposed to weather.
3) 1 1/2" Where concrete is not exposed to earth or weather.

7.0 WOOD CONSTRUCTION

7.1 General Framing

Connections not specified on these drawings shall conform to the IRC fastening schedule, refer to Table R602.3(1). Depth of all posts in walls shall match stud depth, U.O.N. Block floor joist space solid under posts and cripple studs supporting headers and continue support to foundation.

7.2 Engineered Wood Framing

See TrusJoist "Installation Guide for Floor and Roof Framing" (TJ-9001) for allowable holes in engineered wood beams. Grade stamp info must be maintained on ripped engineered wood members.

7.3 Fasteners

Nails specified on these drawings are common nails, U.O.N. Fasteners in contact with P.T. wood, exposed to weather or in contact with ground shall be hot-dipped galvanized per IRC Section 317.3, or shall have equivalent corrosion resistance.

7.4 Connectors

Connectors specified on these drawings are manufactured by the SIMPSON STRONG-TIE® Company. Refer to latest catalog for information not specifically noted herein.

7.5 Wood Structural Panels

WSPs shall bear the APA trademark and shall meet the requirements of the latest edition of USDOC PS1 or PS2. Use 10d common wire nails to fasten panels with 1/2" minimum penetration into framing at all panel edge and field nailing.

7.6 Shear Walls and Exterior Wall Sheathing

- 7.6.1 Shear walls are noted on the plans. Shear walls shall be sheathed with 1/2" APA RATED SHEATHING, EXPOSURE 1 WSPs with a span rating of 3 3/8.
7.6.2 WSP Wall Nailing, U.O.N.:
Panel Edge Nailing: 10d@6"o.c. maximum.
Intermediate (Field) Nailing: 10d@12"o.c. maximum.
7.6.3 All new exterior walls not called out as shear walls shall be sheathed on their exterior face with 1/2" APA RATED SHEATHING, EXPOSURE 1 WSPs with a span rating of 3 3/8 and nailing per note 7.6.2, U.O.N.

7.7 Holdowns and Tiedown Straps

Holdowns and tiedown straps shall be attached to double studs or min. 4x posts, U.O.N. See latest Simpson Catalog for additional requirements not noted herein.

7.8 Sill Anchor Bolts

There shall be a minimum of two sill anchor bolts per piece with one bolt located not more than 12" or less than 4 1/2" from each end of each piece. Holes in sills for bolts shall not be oversized.

7.9 Floor and Roof Sheathing

- 7.9.1 Wood structural panel sheets at floors and roofs shall be laid with strength axis perpendicular to supports and continuous over two or more spans, unless otherwise noted on drawings.
7.9.2 Unless otherwise noted, typical roof sheathing shall be unblocked 5/8" APA RATED SHEATHING, EXPOSURE 1 WSPs with a span rating of 40/20.
7.9.3 Unless otherwise noted, typical floor sheathing shall be unblocked 1 1/2" APA RATED STURD-I-FLOOR EXPOSURE 1 WSPs with a span rating of 60/32 and T&G edges.

7.10 Metal-Plate-Connected Wood Trusses

- 7.10.1 The design, manufacture and installation of trusses shall be in accordance with the requirements of ANSI/TPI 1 and the IRC Section R502.11.
7.10.2 Trusses, structural fascia, their connections to other trusses/fascias, and truss eave blocking are the design responsibility of the supplier, and shall be designed by a civil or structural engineer licensed in the State of Washington.
7.10.3 Drag trusses shall be designed for the following unfactored seismic drag loads:
1) Top Chord Uniform Drag Load: a uniform drag load acting longitudinally along the entire top chord length with a magnitude equal to the total drag load indicated on plan divided by the total top chord length.
2) Bottom Chord Uniform Drag Load: a uniform drag load acting horizontally along on the interface between the drag truss bottom chord and the shear wall below (where occurs on plan) with a magnitude equal to the total drag load indicated on plan divided by the length of that interface.
3) Bottom Chord Concentrated Drag Load: a horizontal concentrated drag load acting at the location at which the drag truss bottom chord is attached via a strap or other connector (where occurs on plan) to the adjacent collector element, with a magnitude equal to the total drag load indicated on plan.

7.10.4 Trusses shall not rely on interior walls for support, U.O.N.; trusses shall be designed to span between exterior bearing walls.

7.10.5 Trusses shall be braced to provide lateral stability and prevent rotation in accordance with the SBCA BCSI "Guide to Good Practice for Handling, Installing and Bracing of Metal-Plate-Connected Wood Trusses".

7.10.6 Trusses and their connections shall not be notched, cut, spliced or otherwise altered or damaged in any way without the prior written consent of both the E.O.R. and truss designer.

7.10.7 Truss design drawings and calculations, prepared by a civil or structural engineer licensed in the State of Washington in accordance with the IRC Section R502.11.4, shall be submitted to the contractor, architect, engineer and local building official for review and acceptance prior to fabrication, and shall be provided with the shipment of trusses to the job site.

7.10.8 Attach top plates of interior, non-bearing partition walls to truss bottom chords with 'STC' clips, leaving a 1/4" to 1/2" vertical gap between bottom of truss and top of plate.

8.0 STRUCTURAL STEEL

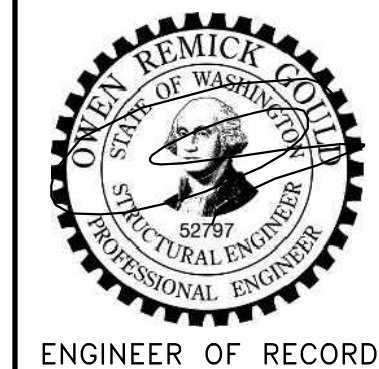
Steel fabrication and erection shall be in accordance with "Specification for Structural Steel Buildings" (AISC 360-10). Welding shall be in accordance with "Structural Welding Code - Steel" (AWS D1.1) Specifications. Minimum tensile strength of weld metal shall be 70 ksi, U.O.N.

ABBREVIATIONS

Table with 2 columns: Symbol, Description. Includes symbols like @, ADJ., ALT., ARCH., etc. and descriptions like ADJACENT, ALTERNATE, ARCHITECT, etc.

PERMIT SET
05-15-24 CYCLE 1 CORRECTION RESPONSE
11-01-23 PERMIT SET
REV. DATE DESCRIPTION

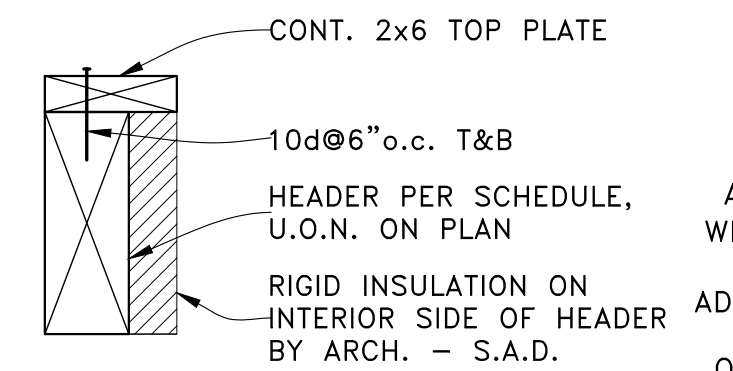
PROJECT: NEW SINGLE-FAMILY DWELLING
5500 Butterworth Road
Mercer Island, WA 98040
CLIENT: Ryan & Ashley Asdourian
5500 Butterworth Road
Mercer Island, WA 98040



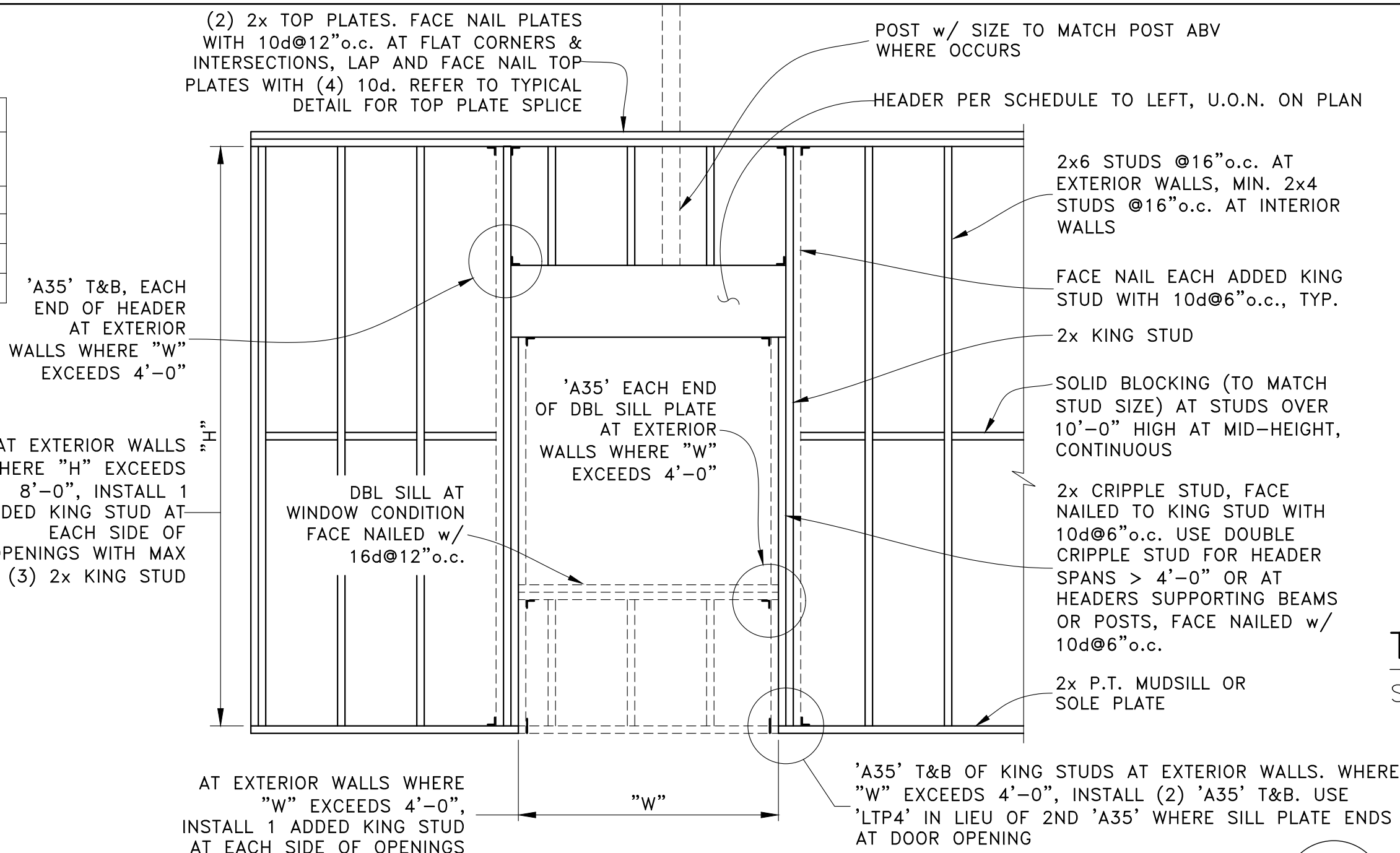
O.G. ENGINEERING, PLLC
3201 1st Ave S, Suite 101, Seattle, WA 98134
(206) 290-4608
ogent@ogengineer.com

SCALE: AS NOTED
SHEET NO. 51
JOB NO. 23010

HEADER SCHEDULE, U.O.N.	
"W" MAX. OPENING	MIN. HEADER
4'-0"	4x6
6'-0"	4x8
8'-0"	4x10
10'-0"	4x12

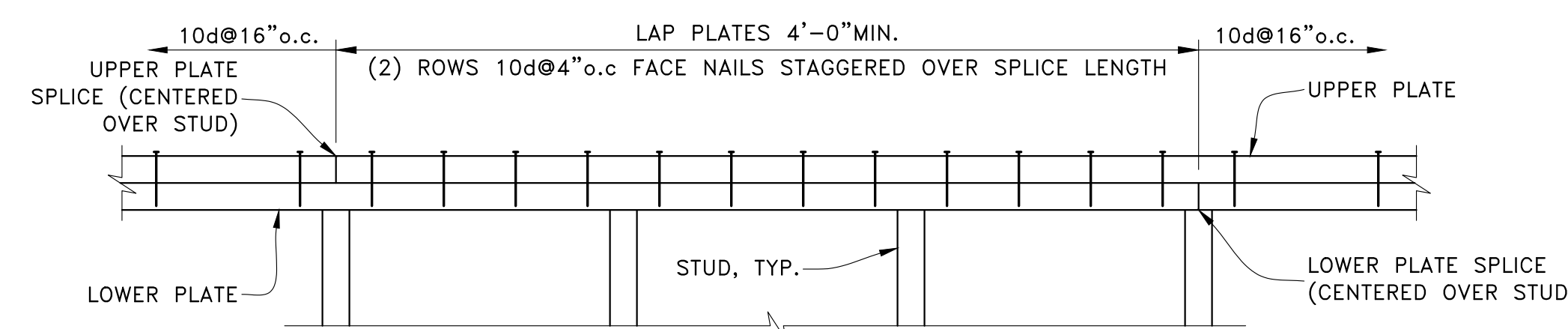


EXTERIOR HEADER @ 2x6 WALLS



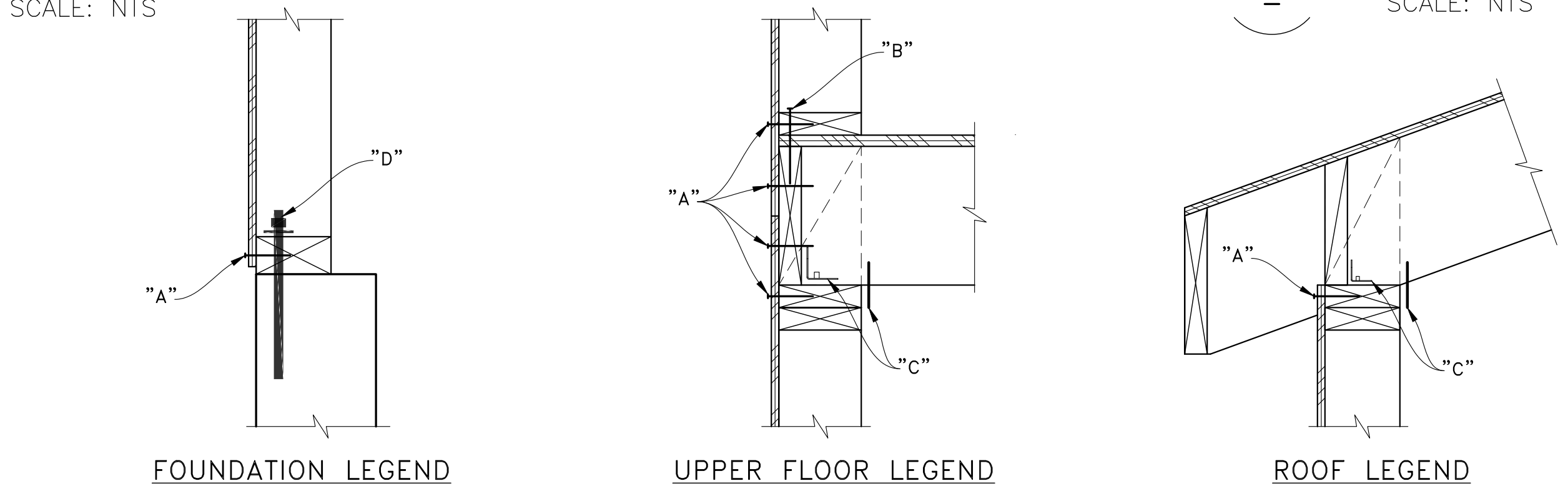
TYPICAL STUD WALL FRAMING

SCALE: NTS



TYPICAL DOUBLE TOP PLATE SPLICE

SCALE: NTS

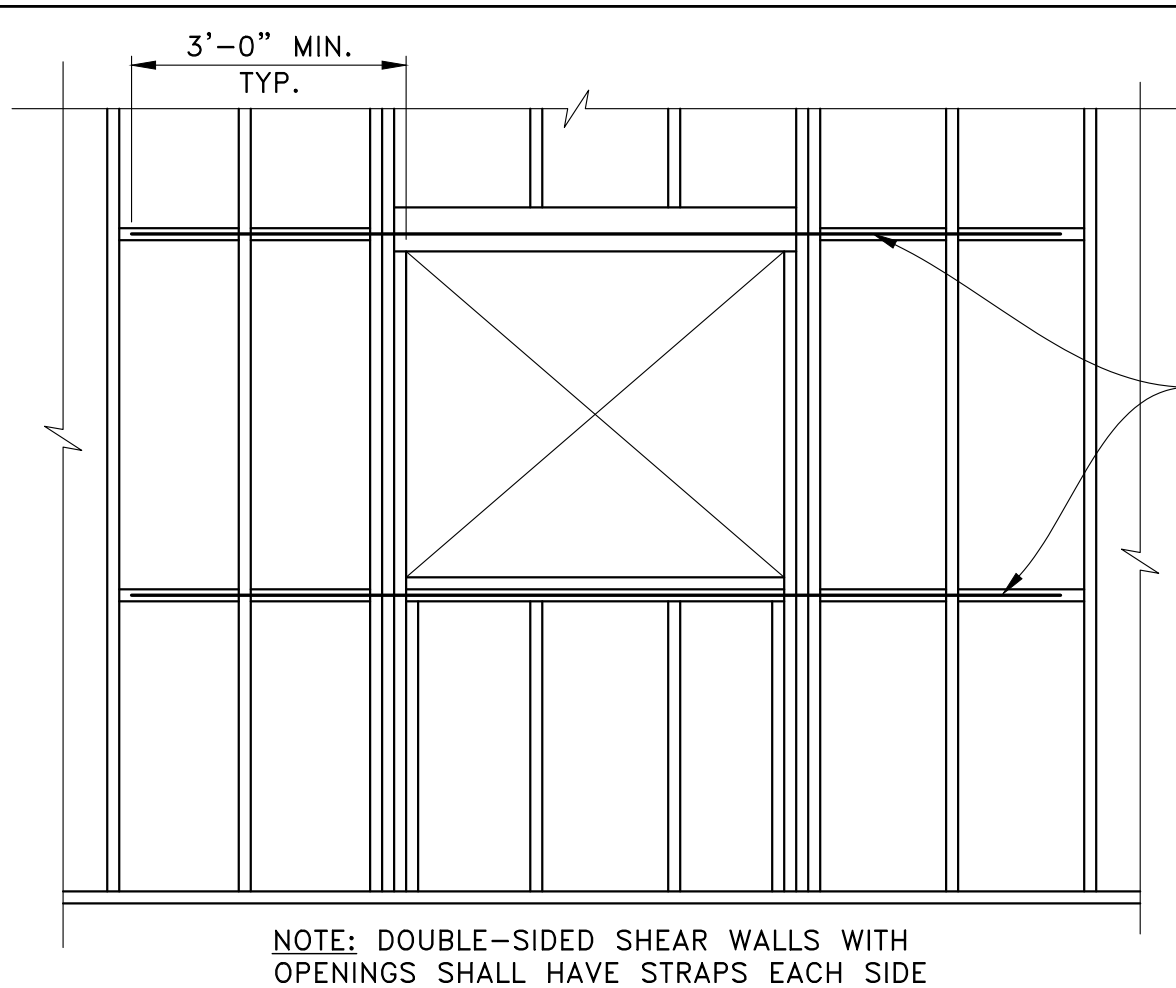


SHEAR WALL SCHEDULE (1/2" SHEATHING-RATED WOOD STRUCTURAL PANELS)						
SHEAR WALL MARK	CAPACITY (PLF)	EDGE NAILING "A"	FIELD NAILING "B"	FRAMING AT ADJOINING PANEL EDGES	SOLE PLATE FASTENERS "B"	FRAMING CLIPS "C"
①	310	10d@6" o.c.	10d@12" o.c.	2x NOMINAL	'SDS25600' @ 8" o.c. ⁴	'A34' OR 'LTP4' @ 16" o.c. ⁵
②	460	10d@4" o.c.	10d@12" o.c.	2x NOMINAL	'SDS25600' @ 8" o.c. ⁴	'A34' OR 'LTP4' @ 8" o.c. ⁵
③	600	10d@3" o.c. ¹	10d@12" o.c.	3x OR 2-2x NOMINAL ³	'SDS25600' @ 8" o.c. ⁴	'A34' OR 'LTP4' @ 8" o.c. ⁵
④	770	10d@2" o.c. ¹	10d@12" o.c.	3x OR 2-2x NOMINAL ³	'SDS25600' @ 4" o.c. ⁴	'A34' OR 'LTP4' @ 8" o.c. ⁵
DBL SIDED ②	920	10d@4" o.c. ¹	10d@12" o.c.	3x OR 2-2x NOMINAL ³	'SDS25600' @ 4" o.c. ⁴	'A34' OR 'LTP4' @ 4" o.c. ⁵
DBL SIDED ③	1200	10d@3" o.c. ¹	10d@12" o.c.	3x OR 2-2x NOMINAL ³	'SDS25600' @ 4" o.c. ⁴	'A34' OR 'LTP4' @ 4" o.c. ⁵
DBL SIDED ④	1540	10d@2" o.c. ¹	10d@12" o.c.	3x OR 2-2x NOMINAL ³	'SDS25600' @ 3" o.c. ⁴	'A34' OR 'LTP4' @ 4" o.c. ⁵

- NOTES
- 1) STAGGER ROWS OF EDGE NAILING 1/2" APART. ON DBL SIDED WALLS, STAGGER EDGE NAILS ON PANELS ON OPPOSITE SIDES OF WALL.
 - 2) NAILING TO ALL INTERMEDIATE FRAMING MEMBERS IN FIELD OF PANEL
 - 3) PANEL EDGE NAILING SHALL BE STAGGERED. 2-2x FRAMING MEMBERS SUPPORTING PANEL EDGES SHALL BE FACE NAILED WITH 10d, SPACING TO MATCH PANEL EDGE NAILING, STAGGERED. STAGGER PANEL EDGES IN OPPOSITE PANELS MIN. 2'-0" APART ON DBL SIDED SHEAR WALLS.
 - 4) SCREWS SHALL HAVE MIN. 2" PENETRATION INTO RIM JOIST/ BLOCKING - USE LONGER SCREWS IF NECESSARY.
 - 5) FRAMING CLIPS ARE ONLY REQUIRED WHERE SPECIFIED ON FRAMING DETAILS.
 - 6) SEE GENERAL NOTES 7.6 & 7.8 FOR MORE INFORMATION.
 - 7) USE GRADE STRUCTURAL 1 WSPs WHERE 'STRUCT 1' IS NOTED ADJ. TO SHEAR WALL CALLOUTS ON PLAN. INCREASE FREQUENCY OF SOLE PLATE FASTENERS, FRAMING CLIPS & SILL ANCHOR BOLTS BY MIN. 15% AT STRUCT 1 SHEAR WALLS.

SHEAR WALL SCHEDULE (S.W.S.)

SCALE: NTS

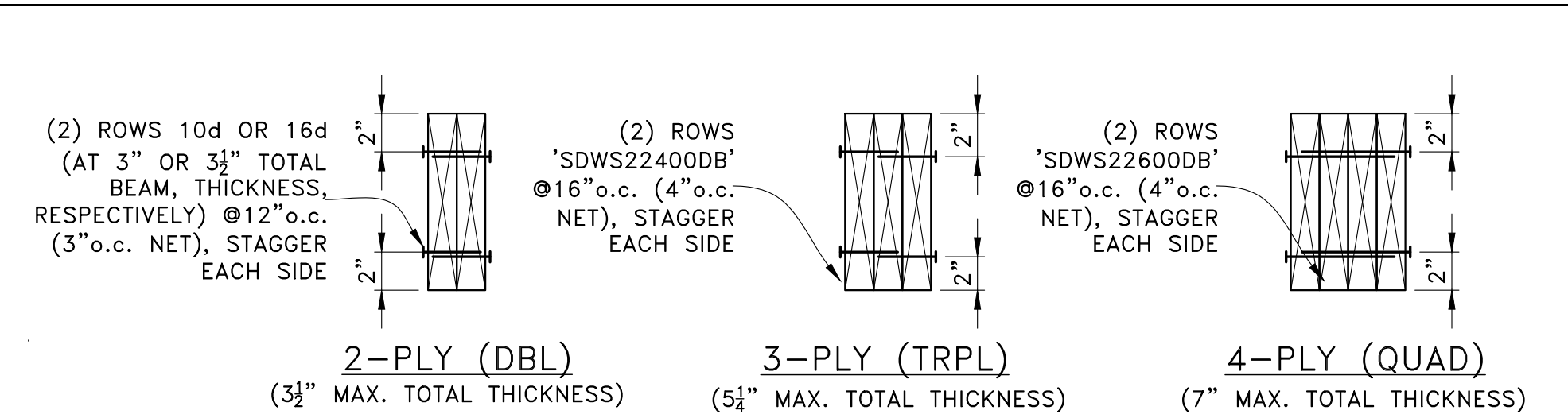


TYPICAL SHEARWALL STRAP AROUND OPENINGS

SCALE: NTS

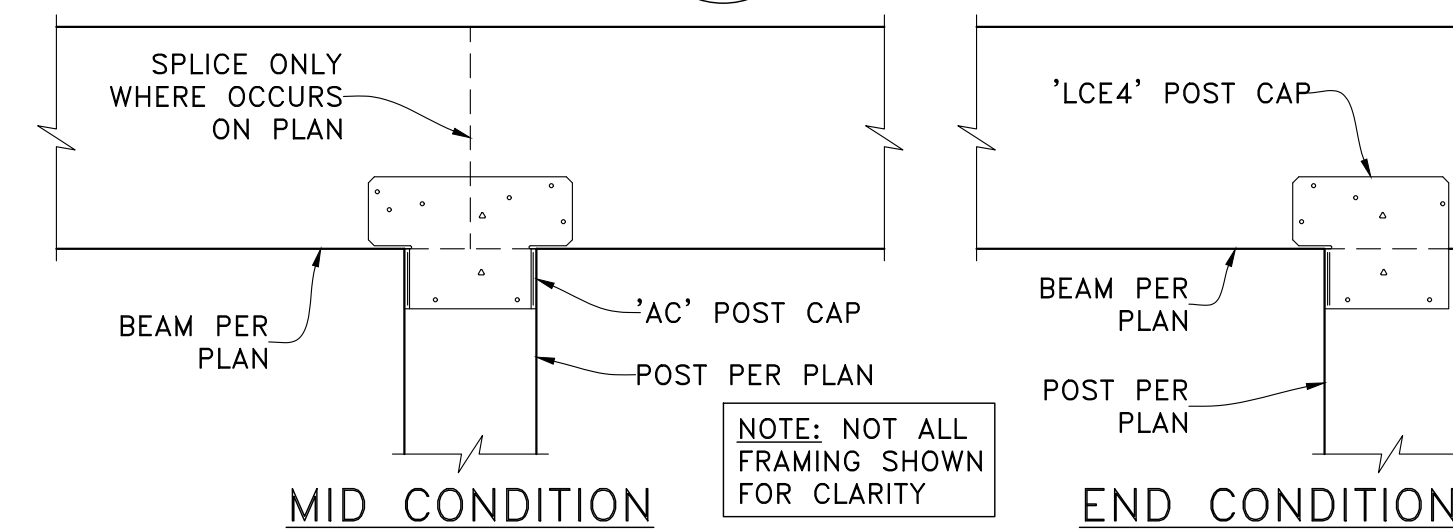
STRAP PER SCHEDULE BELOW (U.O.N. ON PLAN) - EXTEND MIN. 3'-0" PAST OPENING EACH SIDE (OR TO END OF WALL) OVER 2x4 FLAT BLOCKING BTWN STUDS. PLACE STRAP OVER WALL SHEATHING. PLACE STRAP ON BOTH SIDES OF DBL-SIDED SHEAR WALLS WHERE OCCURS

SHEAR WALL MARK	STRAP
①	CS20
②	CS16
③	CS16
④	CS14



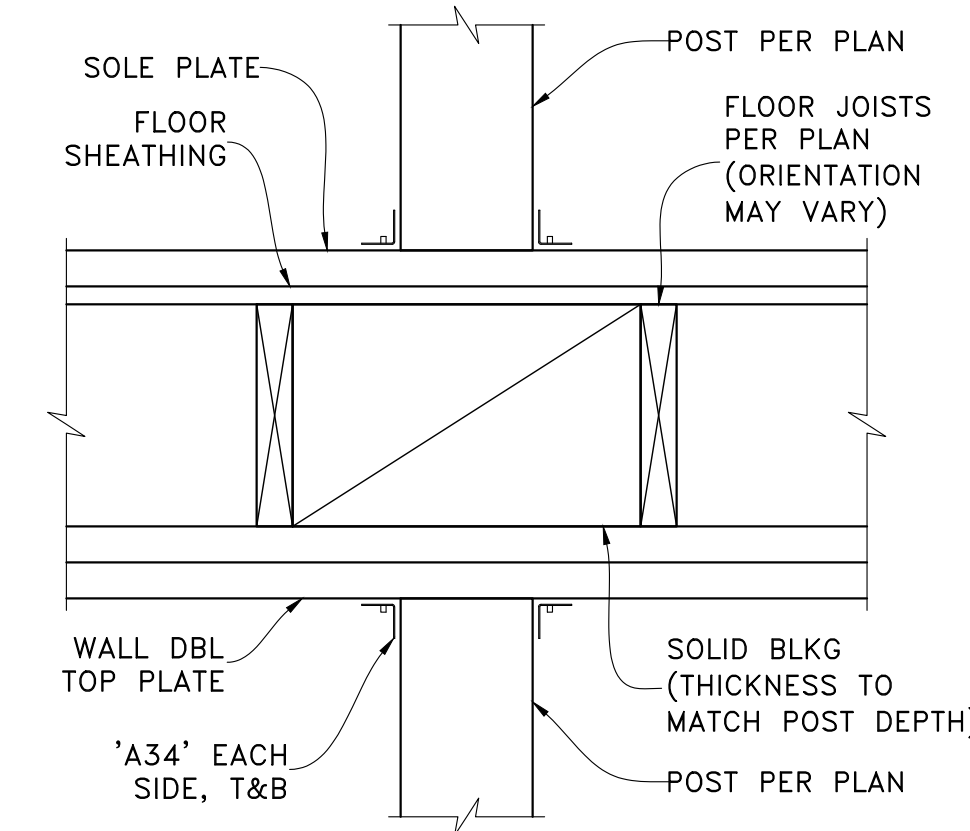
TYPICAL MULTI-PLY BEAM FASTENING

SCALE: NTS



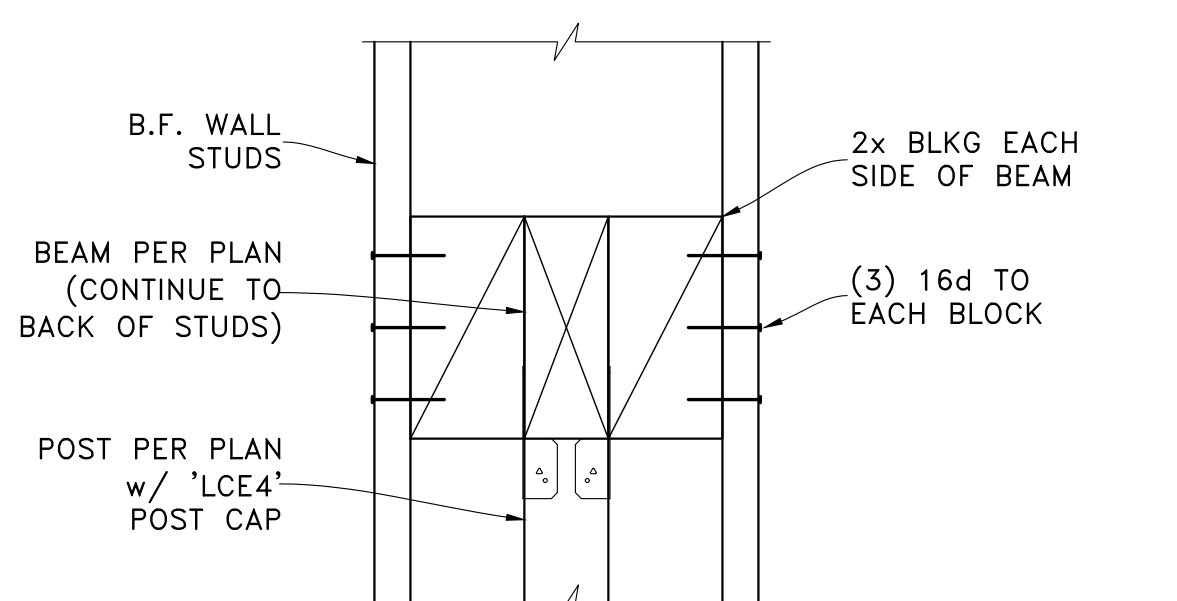
BEAM TO ISOLATED POST

SCALE: NTS



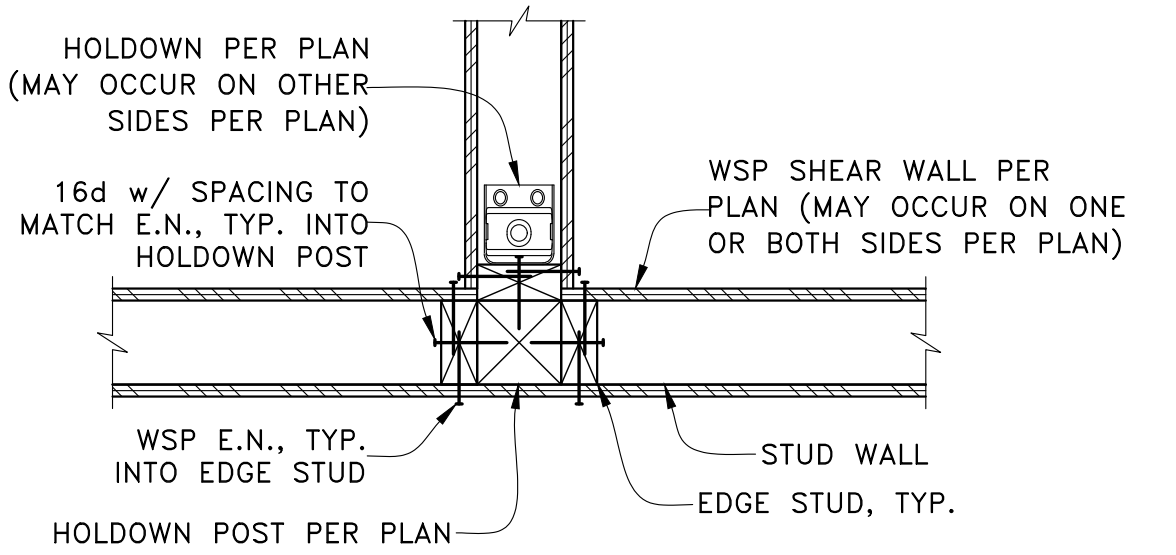
POST IN WALL AT FLOOR

SCALE: NTS



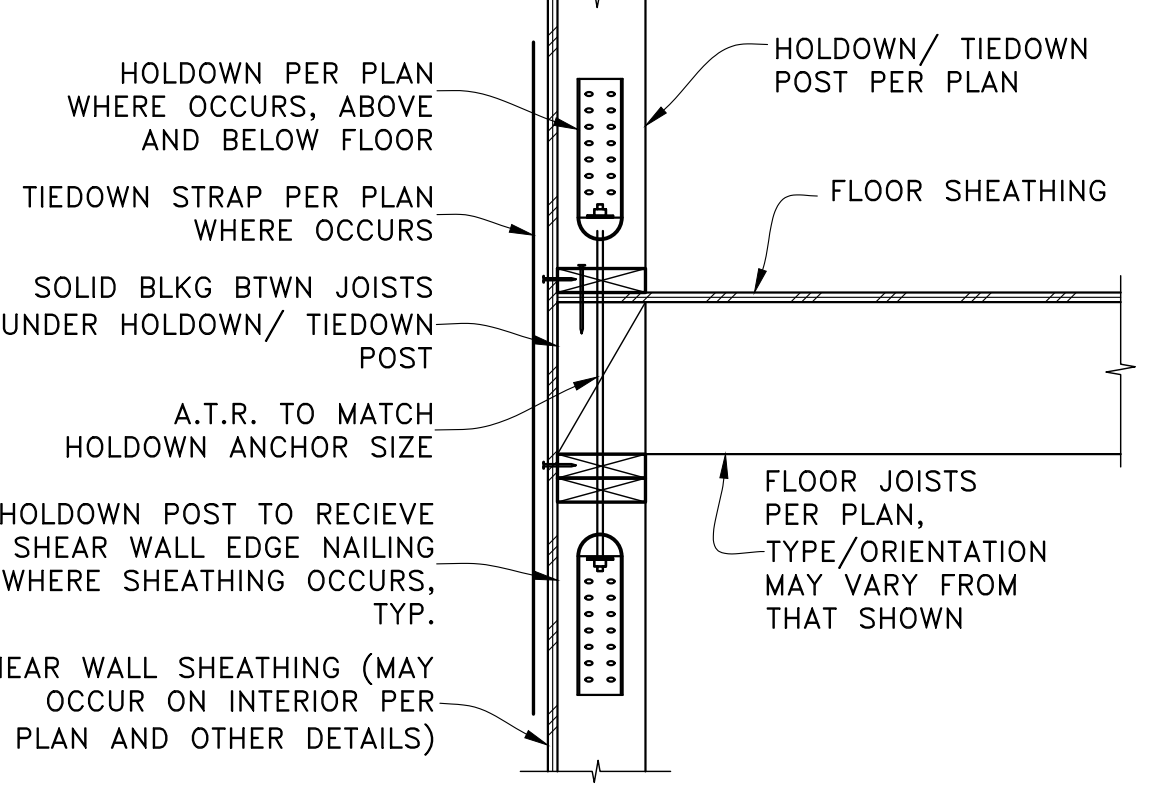
POST IN BALLOON-FRAMED WALL

SCALE: NTS



HOLDDOWN AT CORNER

SCALE: NTS



TYPICAL UPPER FLOOR HOLDDOWN OR TIEDOWN STRAP

SCALE: NTS

PERMIT SET

06-15-24 CYCLE 1 CORRECTION RESPONSE
11-01-23 PERMIT SET

PROJECT: NEW SINGLE-FAMILY DWELLING
5300 Butterworth Road
Mercer Island, WA 98040

CLIENT: Ryan & Ashley Asdourian
5300 Butterworth Road
Mercer Island, WA 98040

O.G. ENGINEERING, PLLC
3201 1st Ave S, Suite 101, Seattle, WA 98134
(206) 290-4608
owen@ogengineer.com

ENGINEER OF RECORD

TYPICAL DETAILS

SCALE: AS NOTED
JOB NO. 23010
SHEET NO. S3

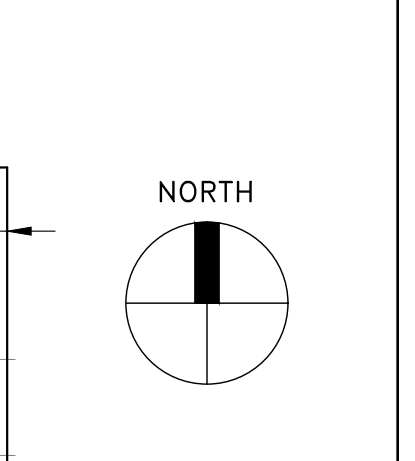
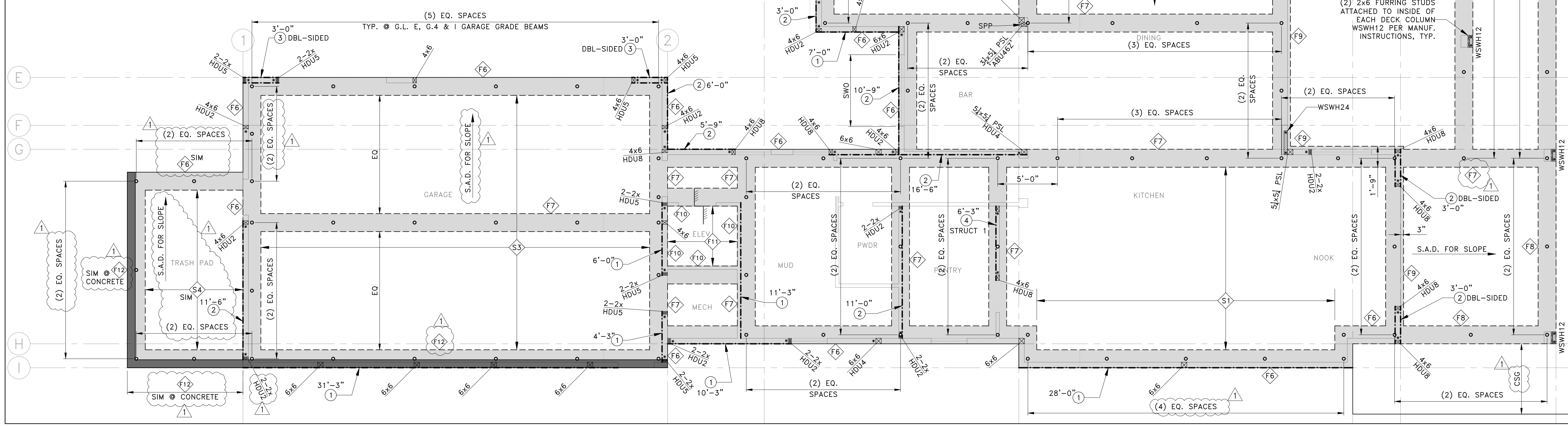
PLAN LEGEND		FOUNDATION SCHEDULE	
	CONCRETE SPREAD FOOTING OR GRADE BEAM w/ #5@12"o.c. PRIMARY BOTTOM BARS ADJACENT AND NOTES ON THIS PLAN		8" LONG-SPAN INTERIOR SUSPENDED SLAB w/ #5@12"o.c. PRIMARY BOTTOM BARS RUNNING IN NORTH/SOUTH DIRECTION
	STUD WALL ABOVE FLOOR		8" TYPICAL INTERIOR SUSPENDED SLAB w/ #4@12"o.c. PRIMARY BOTTOM BARS RUNNING IN NORTH/SOUTH DIRECTION
	WALL OR FOUNDATION BELOW FLOOR		8" GARAGE INTERIOR SUSPENDED SLAB w/ #5@12"o.c. PRIMARY BOTTOM BARS RUNNING IN NORTH/SOUTH DIRECTION
	WINDOW BY ARCH (S.A.D.)		8" BACK PATIO SUSPENDED SLAB w/ #5@12"o.c. PRIMARY BOTTOM BARS RUNNING IN EAST/WEST DIRECTION
	CONCRETE WALL PER FOUNDATION SCHEDULE ADJACENT		3'-6" SQ. PILE CAP w/ (4) PIN PILES CENTERED ON HSS COLUMN PER INTERSECTING GRADE BEAM REBAR CAGE SHALL CONTINUE THROUGH PILE CAP
	2" W.S.P. SHEAR WALL TYPE (X) w/ MIN. LENGTH 'L'. USE GRADE STRUCTURAL 1 SHEATHING WHERE 'STRUCT 1' IS INDICATED ON PLAN & INCREASE SHEAR FASTENERS AND CONNECTORS PER 'H' AND DETAIL S.W.S. NOTE 7. REFER TO 'S3' CALLOUTS ON PLAN		18" WIDE PERIMETER GRADE BEAM PER (A) S7
	STEP IN FLOOR		18" WIDE INTERIOR GRADE BEAM PER (A) S7
	POST ABOVE OR BELOW FLOOR BEARING ON MUDSILL, U.O.N. ON PLAN. ALL 'ABUZ' POST BASES SHALL HAVE THE 1" STANDOFF SPACE PACKED SOLID WITH MIN. 7000psi NON-SHRINK, NON-METALLIC GROUT AFTER INSTALLATION, AND SHALL HAVE 3/8" EPOXY ANCHORS w/ 12" EMBED. INTO CONCRETE. REFER TO (E-G) AND DETAIL (S3)		18" WIDE BACK PATIO EDGE GRADE BEAM PER (C) S7
	POST & HOLDOWN OR TIEDOWN STRAP PER (B) S2		18" WIDE (U.O.N.) PATIO INTERFACE GRADE BEAM PER (C) S7
	STEEL RECTANGULAR HSS COLUMN ABOVE FLOOR PER (B) S7		18" WIDE ELEVATOR PIT GRADE BEAM PER (D) S7
	SIMPSON STRONG WALL WSWHXX (WHERE XX IS THE PANEL WIDTH) PER ATTACHED MANUFACTURER'S DETAIL SHEET. IN LIEU OF WSWH ANCHOR BOLTS, USE 'SB1x30' ANCHORS w/ 6" ANCHOR PROJECTION ABOVE T.O. CONCRETE (AS OPPOSED TO THE STANDARD 6" FOR OTHER 'SB' ANCHORS)		18" WIDE GARAGE GRADE BEAM w/ STEM WALL PER (E) S7
	CANTILEVER SUSPENDED PATIO SLAB PAST GRADE BEAM; ADD #5@12"o.c. TOP BARS AT CANTILEVER EXTENDING MIN. 60" INSIDE OF GRADE BEAM PER (C) S7		8" THICK ELEVATOR PIT SLAB PER (D) S7
	SISTER POSTS w/ 'SDWS22600DB' @12"o.c. CENTERED ON LAP		NORTH SITE RETAINING WALL PER (B) S10
	STRAP AROUND SHEAR WALL WITH OPENINGS PER (B) S3		
	PLACE EXPANSION JOINT BETWEEN NORTH SITE WALL/ FOOTING AND HOUSE TO KEEP THEM STRUCTURALLY SEPARATE; DO NOT DOWEL TOGETHER.		

PIN PILE INSTALLATION AND TESTING NOTES

- 1) PILES SHALL BE FABRICATED FROM 4" SCHEDULE 40 GALVANIZED STEEL PIPE, GRADE ASTM A53. PILE SPLICES SHALL BE MADE WITH COMPRESSION-FITTED SLEEVE COUPLERS (BY FABRICATOR).
- 2) ALL PILES SHALL BE DRIVEN CONTINUOUSLY TO REFUSAL USING A HYDRAULIC JACKHAMMER, WHICH DETERMINES THE MINIMUM PILE LENGTH AND EMBEDMENT DEPTH. REFUSAL IS DEFINED AS 1 INCH OF PENETRATION IN 10 SECONDS USING AN 1100 LB HAMMER, OR 1 INCH OF PENETRATION IN 4 SECONDS USING A 2000 LB HAMMER.
- 3) ALL PILES SHALL BE INSTALLED USING A HYDRAULIC IMPACT HAMMER CARRIED ON LEADS THAT ALLOW THE HAMMER TO SIT ON TOP OF THE PILE DURING DRIVING.
- 4) A TOTAL OF 3% OF THE PILES (ONE PILE MINIMUM, FIVE MAXIMUM) SHALL BE LOAD TESTED TO VERIFY THE DESIGN CAPACITIES. ALL LOAD TESTS SHALL BE PERFORMED IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN ASTM D1143. THE MAXIMUM TEST LOAD SHALL BE 20 TONS.
- 5) THE GEOTECHNICAL SPECIAL INSPECTOR SHALL BE CONTINUOUSLY PRESENT ON SITE DURING PIN PILE INSTALLATION AND LOAD TESTING.

PLAN NOTES

- 1) A MIN. 2'-0" WIDE IMPORTED STRUCTURAL FILL LAYER SHALL BE PLACED ALL AROUND THE FOUNDATION PERIMETER. FILL SHALL EXTEND TO THE BOTTOM OF THE GRADE BEAMS.
- 2) RIGID INSULATION (BY OTHERS, S.A.D.) AROUND THE OUTSIDE OF THE FOUNDATION PERIMETER SHALL HAVE A MIN. COMPRESSIVE RESISTANCE AT YIELD OF 25psi (SUCH AS OWEN'S CORNING FOAMULAR NGX 250 OR APPROVED EQUAL).
- 3) ALL WALL FRAMING AND SHEATHING MATERIALS LESS THAN 2" ABOVE EXTERIOR SLABS, DRIVEWAYS OR OTHER FLATWORK SHALL BE P.T.



PERMIT SET

REV	DATE	DESCRIPTION
1	08-15-24	CYCLE 1 CORRECTION RESPONSE
2	11-01-23	PERMIT SET

PROJECT: NEW SINGLE-FAMILY DWELLING
 5300 Butterworth Road
 Mercer Island, WA 98040

CLIENT: Ryan & Ashley Asdourian
 5300 Butterworth Road
 Mercer Island, WA 98040



O.G. ENGINEERING, PLLC
 3201 1st Ave S, Suite 101, Seattle, WA 98134
 (206) 290-4608
 owen@ogengineer.com

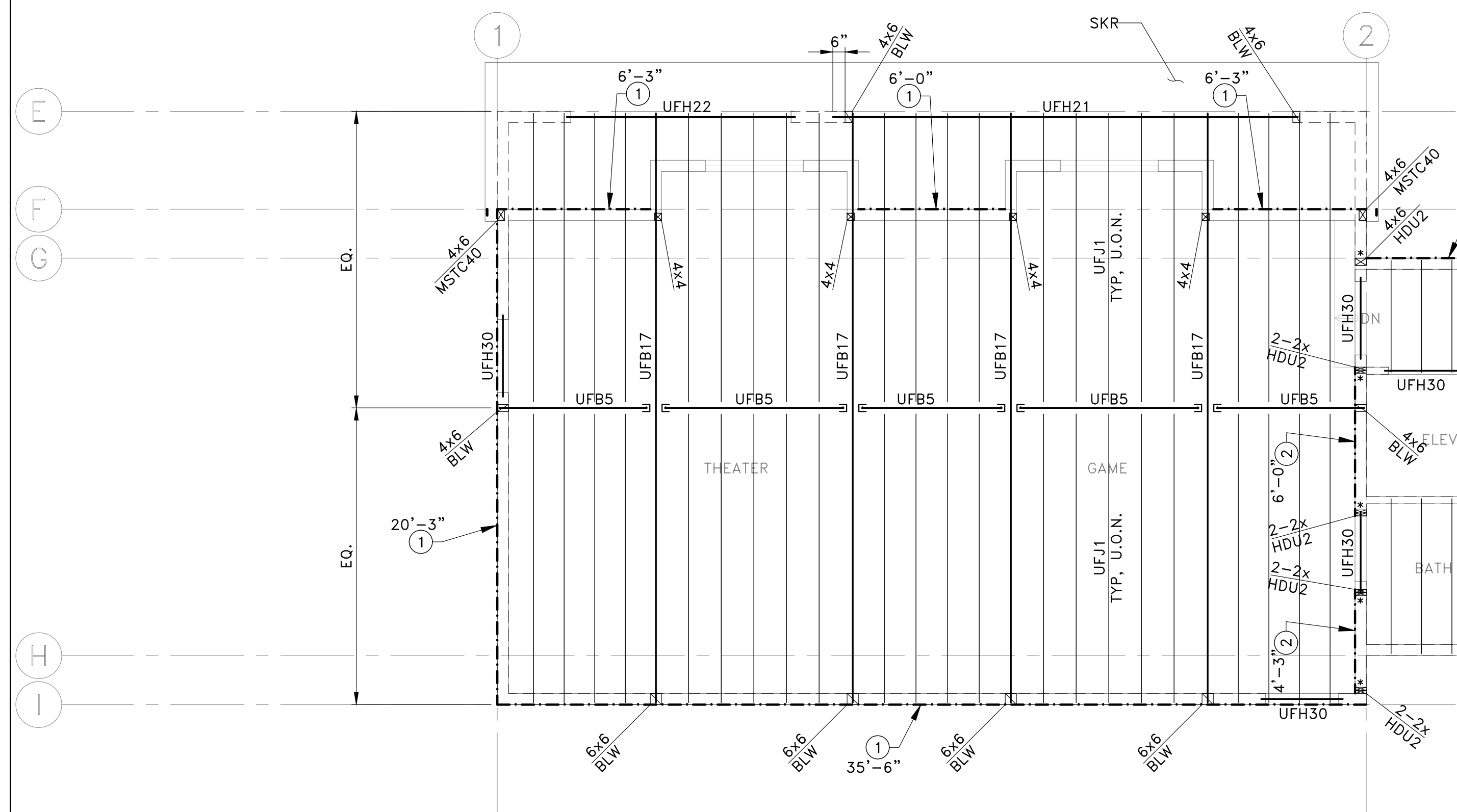
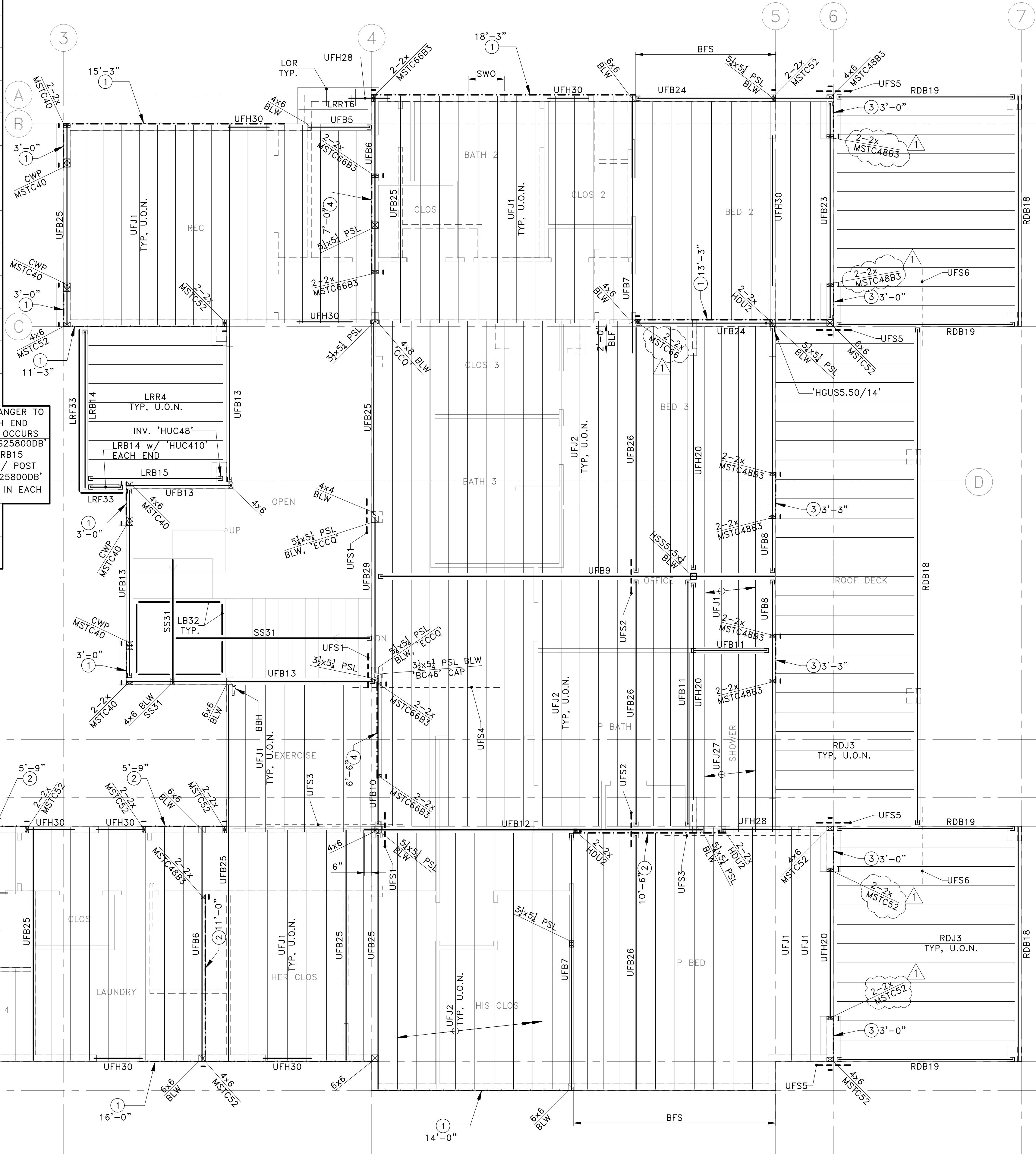
ENGINEER OF RECORD

SHEET TITLE: MAIN FLOOR WALL & FOUNDATION PLAN

PLAN LEGEND
(CONTINUED ON SHEET S5.1)

FRAMING SCHEDULE
(CONTINUED ON SHEET S5.1)

SYMBOL	DESCRIPTION	CALLOUT	JOIST/BAM	HANGER (U.O.N. ON PLAN)	REFER TO DETAIL(S) (OR SEE NOTES BLW)
	STUD WALL ABOVE FLOOR	UFJ1	14" TJI 210 @16"o.c.	IUS2.06/14	(A) (S8)
	WALL BELOW FLOOR	UFJ1	14" TJI 210 @16"o.c.	IUS2.06/14	(A) (S8)
	WINDOW BY ARCH (S.A.D.)	UFJ2	14" TJI 360 @16"o.c.	IUS2.37/14	(A) (S8)
	1/2" W.S.P. SHEAR WALL TYPE (X) AND DETAIL (L) PER (H) AND (S3) CALLOUTS ON PLAN	RDJ3	1 1/2 x 1 1/2 LVL @16"o.c. (RIP TO SLOPE, 8 1/2" MIN DEPTH AT LOW END)	HU7	(K) (S8)
	POST ABOVE OR BELOW FLOOR PER (E-G) AND (S3)	LRR4	1 1/2 x 1 1/2 LVL @24"o.c. (RIP TO SLOPE, 8 1/2" MIN DEPTH AT LOW END)	HU7	(M) (S8)
	POST & HOLDOWN OR TIEDOWN STRAP PER (L) AND (S3)	UFB5	3/4 x 14 LSL (FLUSH)	HUS412	N/A
	STEEL RECTANGULAR HSS COLUMN BELOW FLOOR PER (I) AND (S8)	UFB6	5/4 x 14 PSL (FLUSH)	N/A	(C) (S8)
	METAL STRAP ON OR BELOW FLOOR PER PLAN	UFB7	5/4 x 14 PSL (FLUSH)	HHUS.50/10	N/A
	'MSTC40' STRAP o/ FLR SHEATHING o/ BEAM TO ABUTTING BEAM (SHIM GAPS BETWEEN BEAM ENDS TIGHT WHERE OCCURS BLW STRAP)	UFB8	5/4 x 14 PSL (FLUSH)	CUSTOM TO UFB9 (SEE DETAIL)	(D) (K) (S8) (S8)
	'MSTA36' STRAP o/ FLR SHEATHING o/ BEAM TO ABUTTING BEAM	UFB9	W14x68 (FLUSH STEEL BEAM)	CUSTOM (SEE DETAIL)	(F) (I) (S8) (S8)
	CONT. 'CS16' STRAP o/ FLR SHEATHING o/ 2x4 BLKG BTWN UFJ2 w/ 10d@3"o.c. FACE NAIL TO UFB12 WEB FILLER FOR MIN. 3/2". CONTINUE PAST BEAM END o/ 2x4 FLAT BLKG FOR MIN. 8'-0"	UFB10	5/4 x 14 PSL (FLUSH)	HGUS5.50/14	(C) (S8)
	CONT. 'CS16' STRAP o/ FLR SHEATHING, LAP MIN. 18" o/ UFB13 & CONTINUE o/ 2x4 FLAT BLKG FOR MIN. 8'-0" PAST BEAM END	UFB12	W12x35 (FLUSH STEEL BEAM)	N/A	(E) (G) (S8) (S8) (H) (S8)
	'MSTA30' STRAP o/ WALL SHEATHING o/ SIDE OF RDB19 TO RIM JOIST	UFB13	5/4 x 14 PSL (FLUSH)	HUCQ612	(L) (S8)
	CONT. 'CS16' STRAP o/ FLR SHEATHING, LAP MIN. 18" o/ RDB18 & CONTINUE o/ 2x4 FLAT BLKG FOR MIN. 4'-0" PAST BEAM END	LRB14	3/4 x 11 1/2 PSL (U/S FLUSH w/ U/S LRR4)	HUCQ410 (TO LEDGER OR SEE NOTE ADJ.)	USING 'SDS25500's, SCREW HANGER TO STUDS WHERE NO LEDGER OCCURS (2) VERT. ROWS OF (3) 'SDWS25800DB' @3"o.c. E/W THRU SIDE OF LRB15 CENTERED ON INTERSECTION w/ POST @ BUILDING CORNER & 'SDWS25800DB' 1 1/2" FROM T&B, (2) CENTERED IN EACH PASSING STUD TO EAST
	FLUSH-FRAMED JOIST OR BEAM CONNECTION; SEE FRAMING SCHEDULE FOR HANGERS, U.O.N. ON PLAN OR DETAILS (JOIST HANGERS NOT SHOWN ON PLAN FOR CLARITY)	LRB15	3/4 x 11 1/2 PSL (RIP TO SLOPE, 8 1/2" MIN DEPTH AT LOW END, FLUSH w/ LRR4 & TAKES THE PLACE OF LEDGER ALONG SOUTH SIDE)	INV. HUCQ410	
	JOIST OR BEAM BEARING ON DROPPED BEAM OR HEADER (BEARING WALL SIM). POST DOWN TO HEADER WHERE OCCURS (POST WIDTH TO MATCH BEAM, NOT SHOWN FOR CLARITY). INSTALL FULL-DEPTH BLKG EACH SIDE OF JOIST OR BEAM OVER SUPPORT	LRR16	2x8 @24"o.c.	LRU28Z	(A-B) (D) (S8) (S8)
		UFJ17	5/4 x 14 PSL (FLUSH)	HGUS5.50/14	N/A



NORTH

PERMIT SET

05-15-24 CYCLE 1 CORRECTION RESPONSE
11-01-23 PERMIT SET

PROJECT: **NEW SINGLE-FAMILY DWELLING**
5300 Butterworth Road
Mercer Island, WA 98040

CLIENT: **Ryan & Ashley Asdourian**
5300 Butterworth Road
Mercer Island, WA 98040

ENGINEER OF RECORD

PROJECT: **O.G. ENGINEERING, PLLC**
3201 1st Ave S, Suite 101, Seattle, WA 98134
(206) 290-4608
owen@ogengineer.com

UPPER FLOOR
FRAMING PLAN

SHEET TITLE

SCALE: AS NOTED
JOB NO. 23010

SHEET NO. **S5**

PLAN LEGEND
(CONTINUED FROM SHEET S5)

FRAMING SCHEDULE
(CONTINUED FROM SHEET S5)

BBH	'HDU2' HORIZ. HOLDOWN @ INSIDE OF UFB25 (USE 'SDS25112' SCREWS) w/ 8" #x4" FULL-THREAD LAG SCREW TO UFB13	CALLOUT	JOIST/BREAM	HANGER (U.O.N. ON PLAN)	REFER TO DETAIL(S) (OR SEE NOTES BLW)
BFS	B.F. EXTERIOR WALL STUDS FROM UPPER FLR PAST PRIMARY ROOF TO OVER-FRAMED ROOF. STUDS > 9'-0" TALL SHALL BE 1 1/2x5 1/2 LVL w/ 'A35' T&B	RDB18	5 1/2x11 1/2 PSL (UPSET, U/S FLUSH w/ U/S RDJ3)	HUC610	OUTSIDE FACE OF RDB18 FLUSH WITH OUTSIDE FACE OF WSWH BLW. RDJ3 HANG OFF 1 1/2x8 1/2 LVL LEDGER SCREWED TO RDB18 PER
BLF	(4) ROWS OF (4) 16d FACE NAILS @3"o.c. E/W THRU SIDE OF UFB26 TO UFB7	RDB19	(2) 1 1/2 LVL (RIP 1 1/2" DEEP JOISTS TO SLOPE, 8 1/2" MIN DEPTH, FLUSH)	HUC48	(K) (S8)
		UFH20	5 1/2x10 1/2 GLB (DROPPED SLIDING DOOR HEADER)	HUC610 (SIX 1/2"x1" FILLET WELDS TO STEEL POST)	(A) (S3)
CWP	3 1/2x5 1/2 PSL CATHEDRAL WINDOW CRIPPLE POST SISTERED TO 3 1/2x5 1/2 PSL KING POST w/ 'SDS25600' FACE SCREWS @12"o.c. KING POST SHALL HAVE 'LS50' EACH SIDE, T&B	UFH21	5 1/2x14 PSL (FLUSH HEADER)	N/A	UFH22 OVER WALL OPNG BELOW NSFC ON PLAN
SKR	GARAGE SKIRT ROOF PER (FRAMING NSFC ON PLAN) (J) (S8)	UFH22	5 1/2x9 GLB (DROPPED HEADER)	N/A	(A) (S3)
SWO	STRAP AROUND SHEAR WALL WITH OPENINGS PER (B) (S3)	UFB23	5 1/2x14 PSL (FLUSH)	MGU5.50/14 (ONE FLANGE CONCEALED)	(D) (S8) (K) (S8)
		UFB24	5 1/2x14 PSL (FLUSH)	INV. HUC0612	(D) (S8)
		UFB25	1 1/2x14 LSL (FLUSH)	HU11	(B) (S8) 10d@3"o.c. @ FLR SHEATHING TO FULL-LENGTH OF BEAM WHERE LOCATED ABOVE SHEAR WALL, 6"o.c. ELSEWHERE
		UFB26	3 1/2x14 LSL (FLUSH)	N/A	(B) (S8)
		UFJ27	9 1/2" TJI 210 @16"o.c.	IUS2.06/9.5	(X) (SX)
		UFH28	3 1/2x9 GLB (DROPPED HEADER)	N/A	(A) (S3) (A) (S10) WHERE OCCURS
		UFB29	5 1/2x14 PSL (FLUSH)	N/A	(X) (SX)
		UFH30	4x10 (DROPPED HEADER)	N/A	(A) (S3)
		SS31	HSS6x6x3/8 STAIR STRINGER	SEE DETAILS (TBD)	CJP WELD ALL AROUND AT BENDS. FILLET WELD ALL AROUND TO INTERSECTING SS31. WELDED END PLATE SCREWED TO SIDE OF UFB29. WELDED BASE PLATE EPOXY-BOLTED TO SLAB @ BASE
		LB32	L6x4x5/8 STAIR LANDING EDGE BEAM	SEE DETAILS (TBD)	FILLET WELD ALL AROUND TO INTERSECTING SS31, BUTT WELD ALL AROUND AT MITERED CORNERS. (2) 'SDWS22500DB' @3"o.c. VERT. SPACING TO EACH PASSING STUD OR POST IN ADJ. WALL WHERE OCCURS ON BACK SIDE OF FASCIA FLANGE. INSTALL (2) STAGGERED ROWS 1/2" WELDED, THRD STUDS THRU-BOLTED TO LRB14 @12"o.c. NET (PLACE BTWN RAFTERS), ROWS LOCATED 3" FROM T&B OF LRB14
		LRF33	C15x33.9 STEEL FASCIA	N/A	

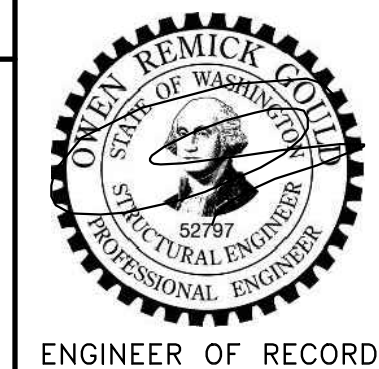
SIM (K) (S8)

PERMIT SET

06-15-24	CYCLE 1 CORRECTION RESPONSE
11-01-23	PERMIT SET
REV	DATE
	DESCRIPTION

PROJECT: **NEW SINGLE-FAMILY DWELLING**
5300 Butterworth Road
Mercer Island, WA 98040

CLIENT: **Ryan & Ashley Asdourian**
5300 Butterworth Road
Mercer Island, WA 98040



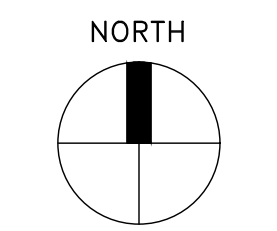
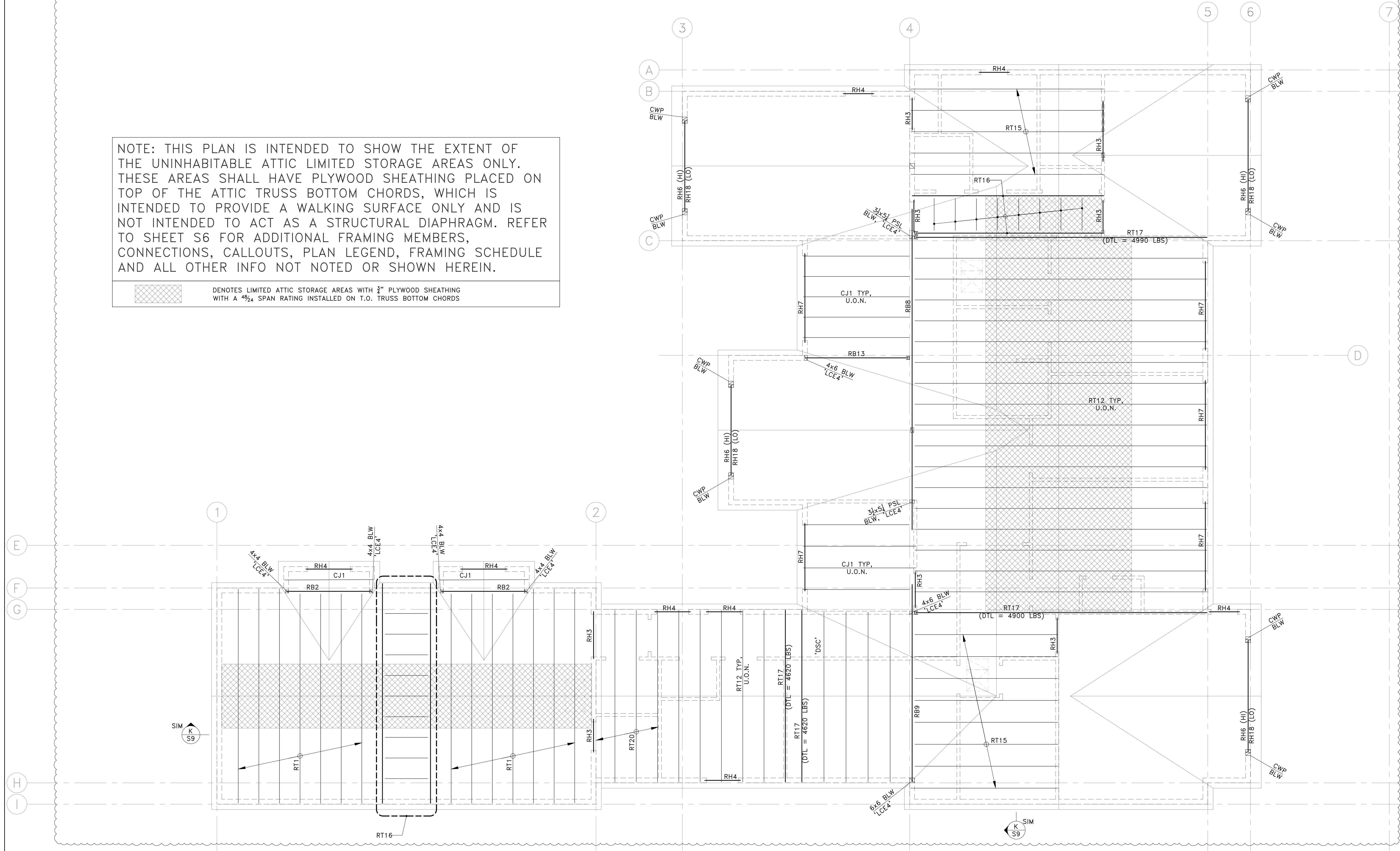
ENGINEER OF RECORD

O.G. ENGINEERING, PLLC
3201 1st Ave S, Suite 101, Seattle, WA 98134
(206) 290-4608
owen@ogengineering.com

UPPER FLOOR FRAMING
LEGEND & SCHEDULE
CONTINUED

NOTE: THIS PLAN IS INTENDED TO SHOW THE EXTENT OF THE UNINHABITABLE ATTIC LIMITED STORAGE AREAS ONLY. THESE AREAS SHALL HAVE PLYWOOD SHEATHING PLACED ON TOP OF THE ATTIC TRUSS BOTTOM CHORDS, WHICH IS INTENDED TO PROVIDE A WALKING SURFACE ONLY AND IS NOT INTENDED TO ACT AS A STRUCTURAL DIAPHRAGM. REFER TO SHEET S6 FOR ADDITIONAL FRAMING MEMBERS, CONNECTIONS, CALLOUTS, PLAN LEGEND, FRAMING SCHEDULE AND ALL OTHER INFO NOT NOTED OR SHOWN HEREIN.

 DENOTES LIMITED ATTIC STORAGE AREAS WITH $\frac{3}{4}$ " PLYWOOD SHEATHING WITH A $\frac{4}{8}$ " SPAN RATING INSTALLED ON T.O. TRUSS BOTTOM CHORDS

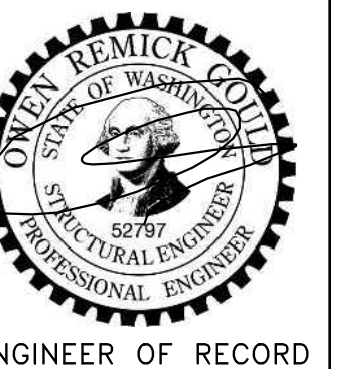


PERMIT SET

REV	DATE	DESCRIPTION
1	05-15-24	CYCLE 1 CORRECTION RESPONSE
2	11-01-23	PERMIT SET

PROJECT: **NEW SINGLE-FAMILY DWELLING**
 5300 Butterworth Road
 Mercer Island, WA 98040

CLIENT: **Ryan & Ashley Asdourian**
 5300 Butterworth Road
 Mercer Island, WA 98040

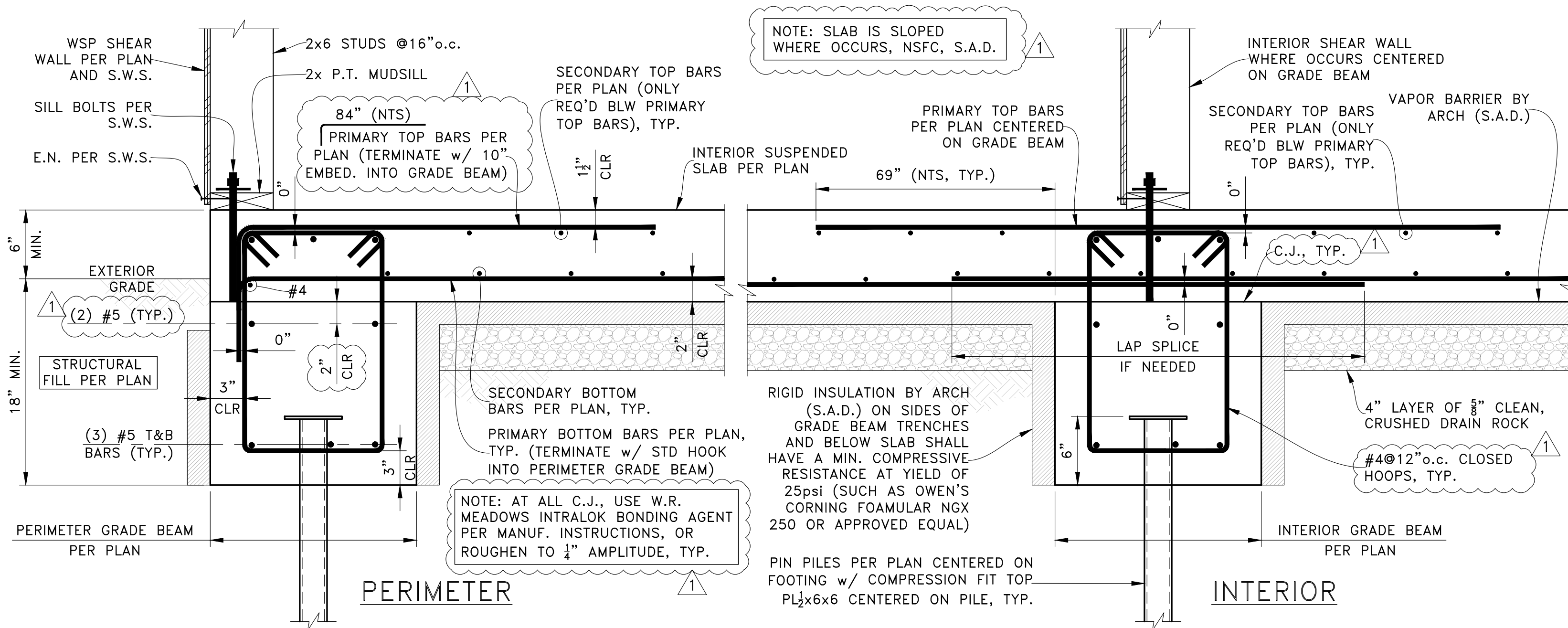


ENGINEER OF RECORD

O.G. ENGINEERING, PLLC
 3201 1st Ave S, Suite 101, Seattle, WA 98134
 (206) 290-4608
 owen@ogengineer.com

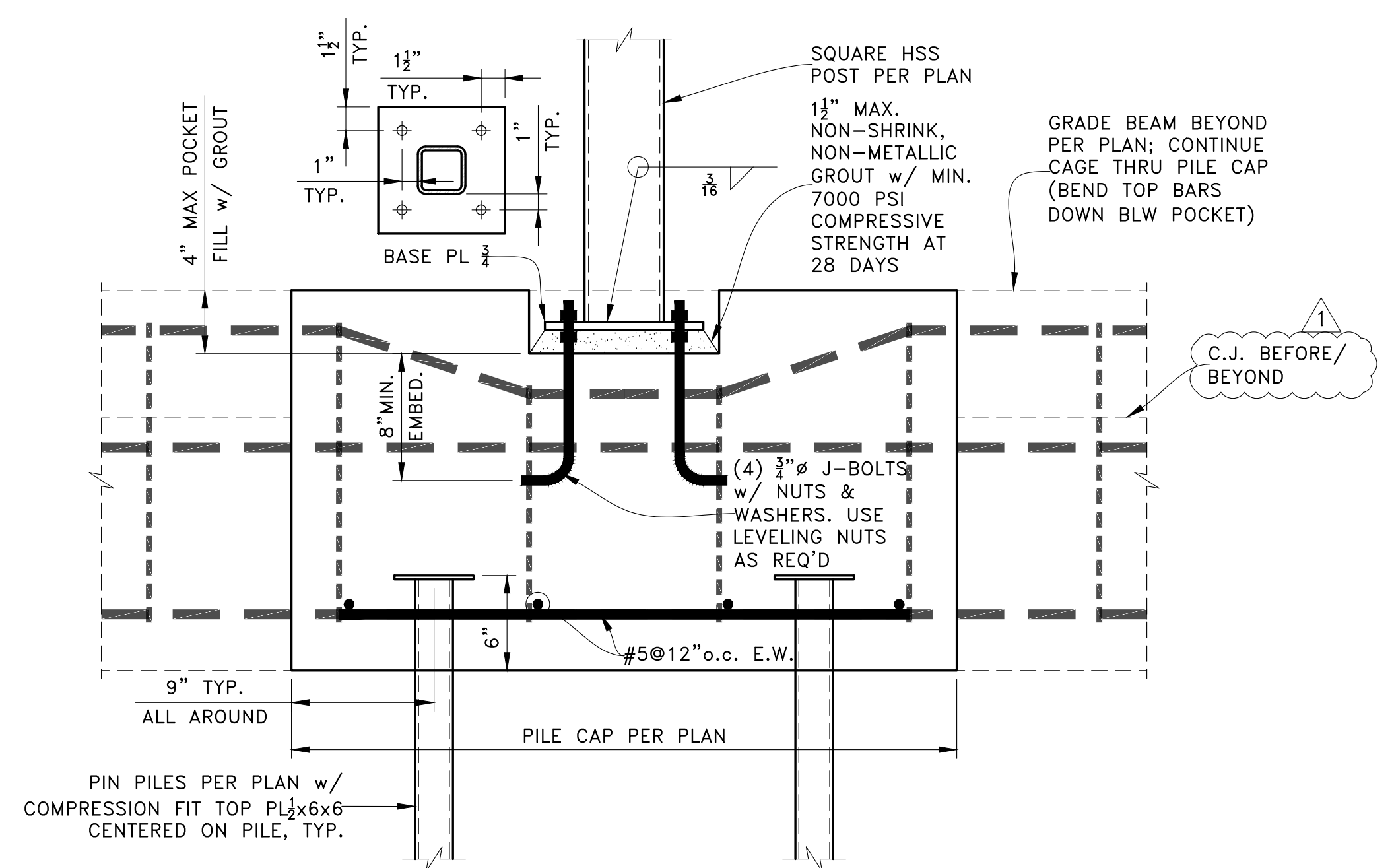
SHEET TITLE: **ATTIC FRAMING PLAN**

SCALE: AS NOTED
 SHEET NO. **S6.1**
 JOB NO. 23010



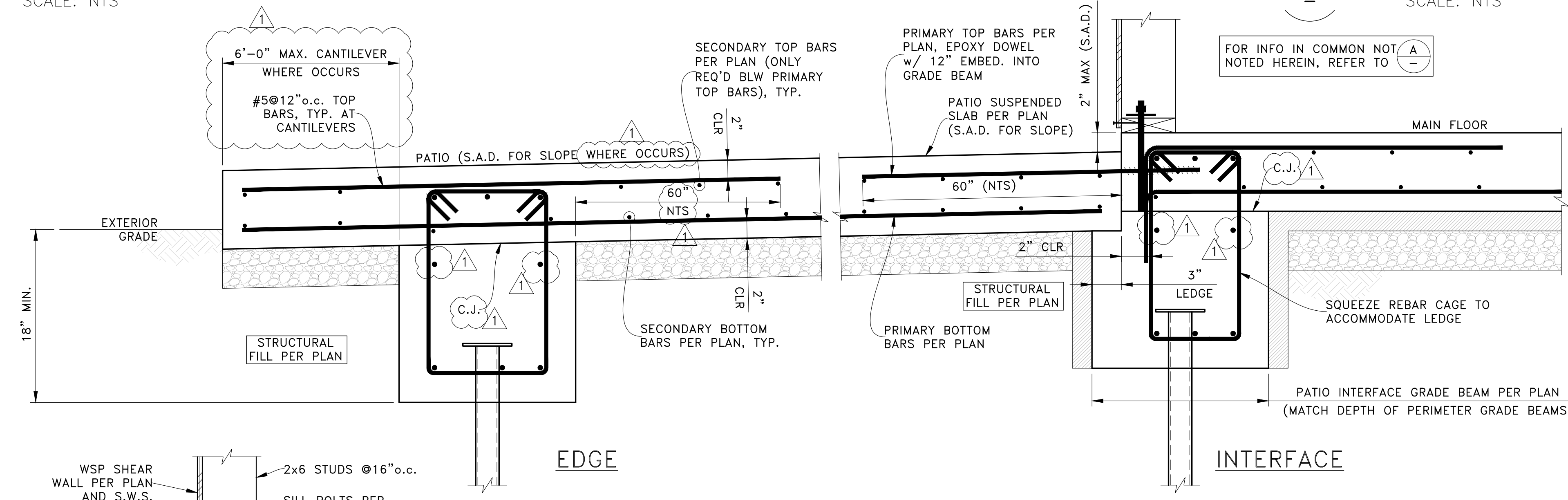
TYPICAL GRADE BEAMS AND INTERIOR SUSPENDED SLAB

SCALE: NTS



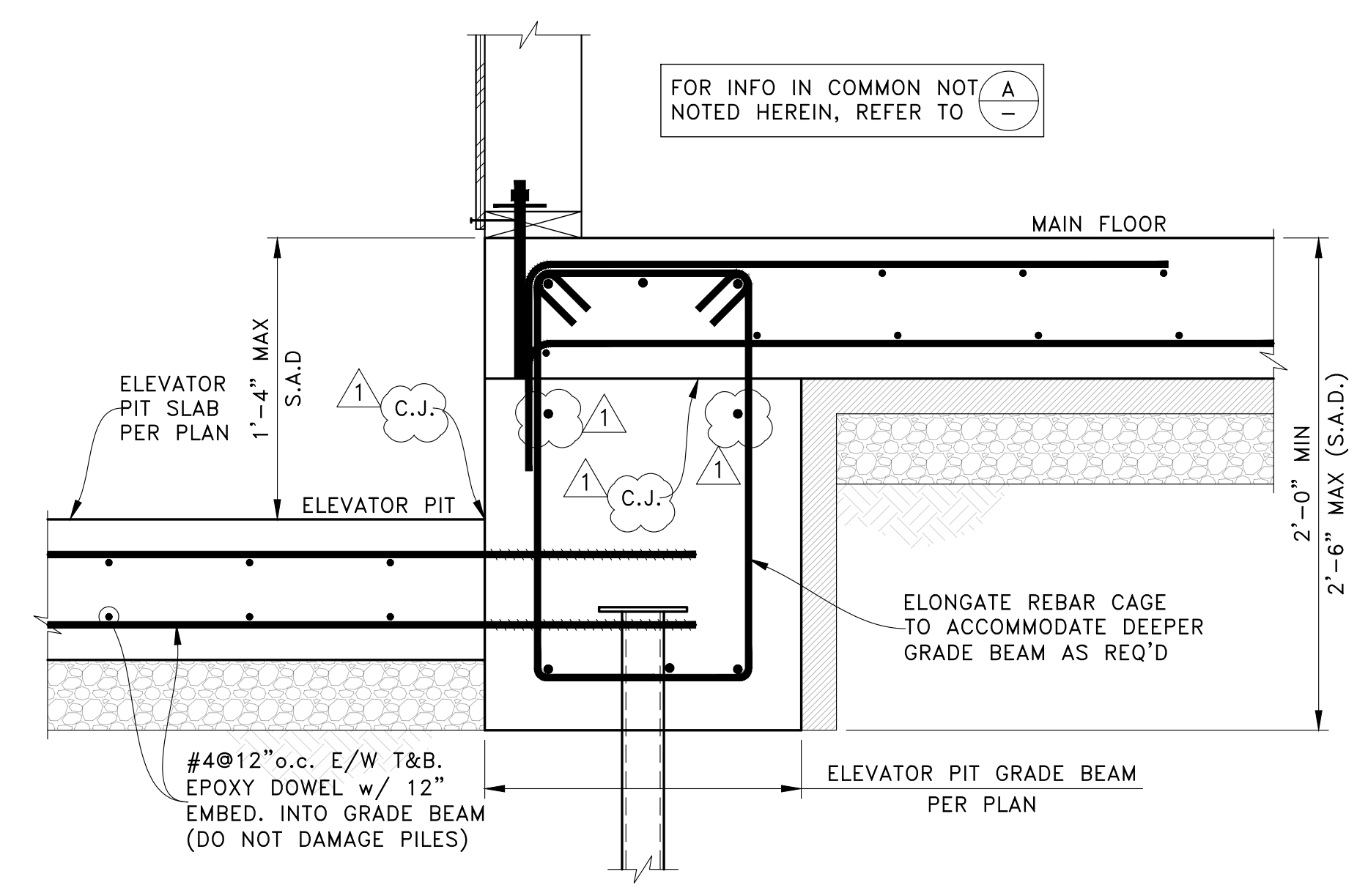
PILE CAP AT STEEL POST

SCALE: NTS



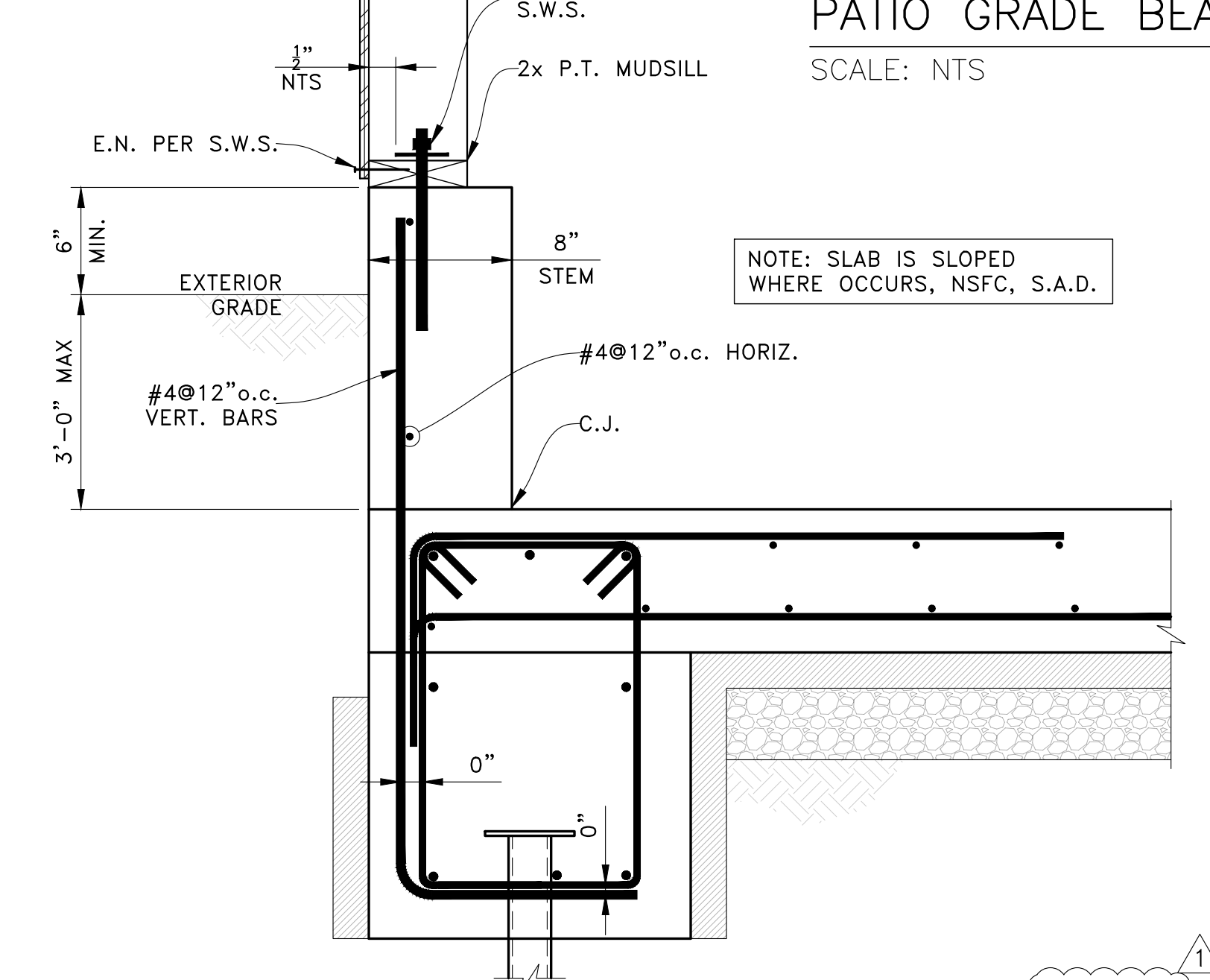
PATIO GRADE BEAMS & SUSPENDED SLAB

SCALE: NTS



ELEVATOR PIT & GRADE BEAMS

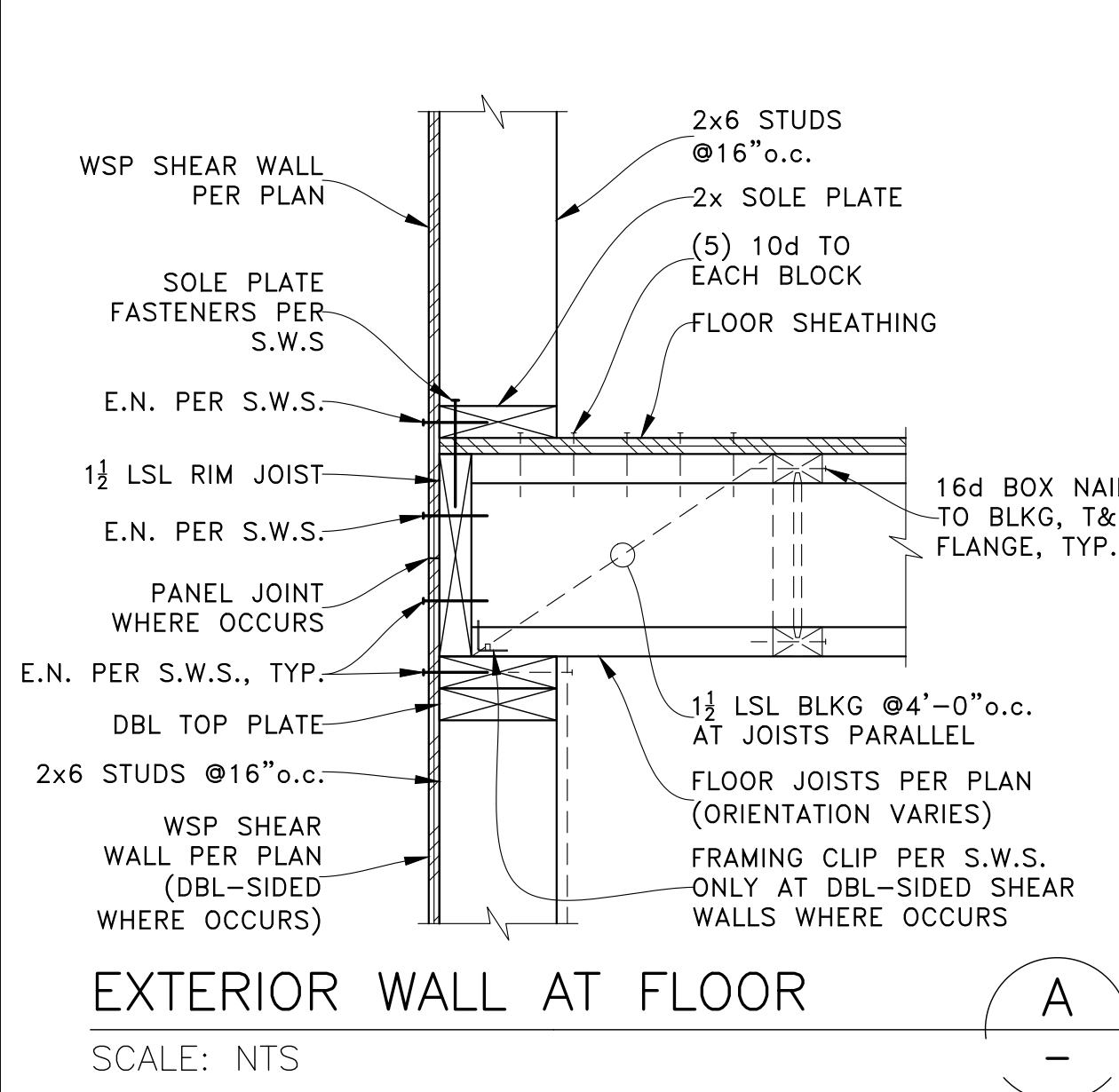
SCALE: NTS



GRADE BEAM WITH STEM WALL

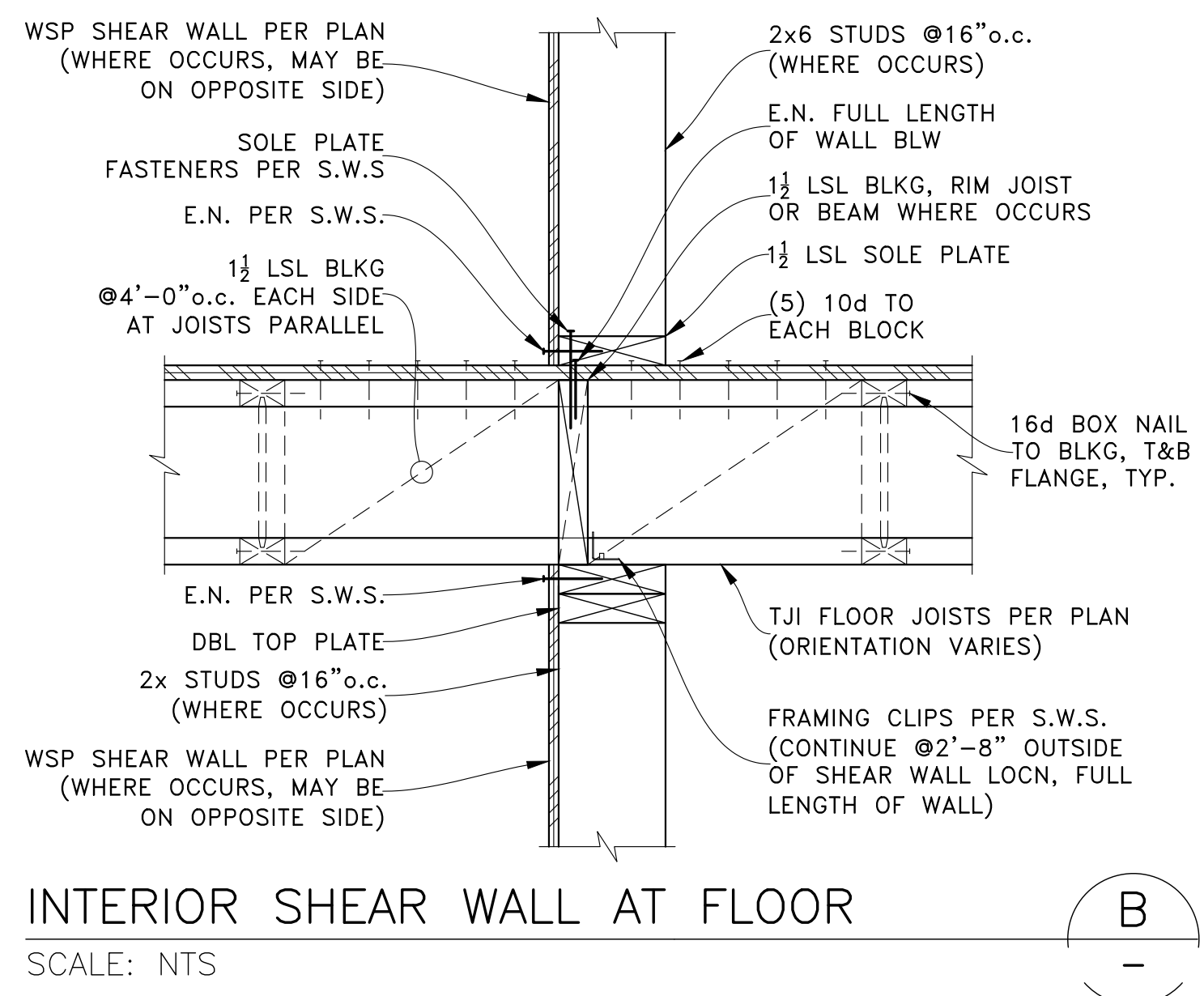
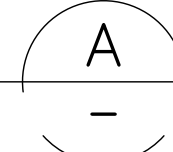
SCALE: NTS

PERMIT SET	
05-15-24	CYCLE 1 CORRECTION RESPONSE
11-01-23	PERMIT SET
REV	DATE
DESCRIPTION	
PROJECT:	NEW SINGLE-FAMILY DWELLING 5300 Butterworth Road Mercer Island, WA 98040
CLIENT:	Ryan & Ashley Asourian 5300 Butterworth Road Mercer Island, WA 98040
ENGINEER OF RECORD	
O.G. ENGINEERING, PLLC 3201 1st Ave S, Suite 101, Seattle, WA 98134 (206) 290-4608 owen@ogengineer.com	
SECTIONS & DETAILS	
SCALE: AS NOTED	SHEET NO. S7
JOB NO. 23010	



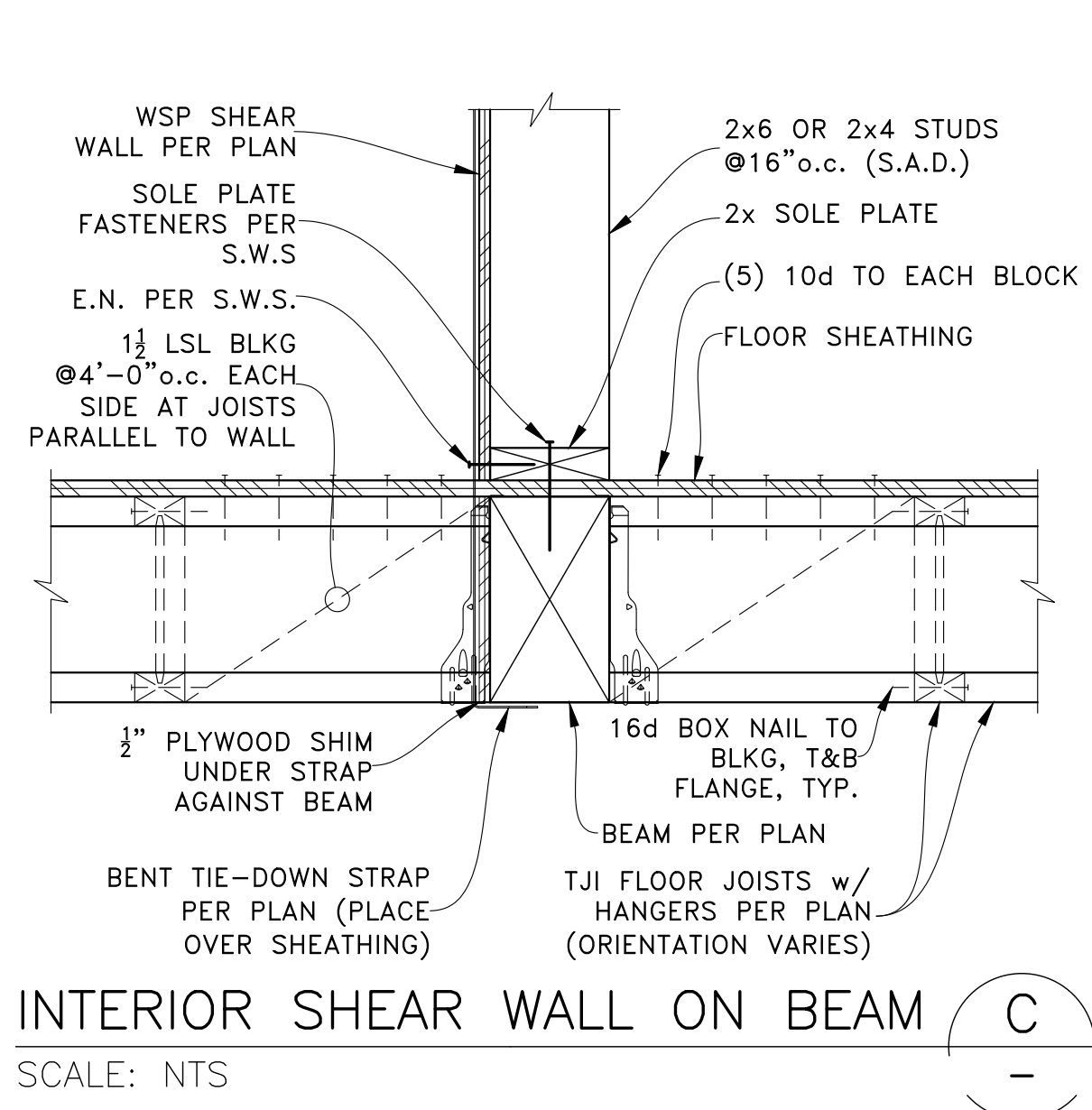
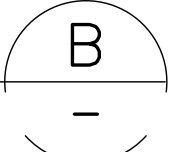
EXTERIOR WALL AT FLOOR

SCALE: NTS



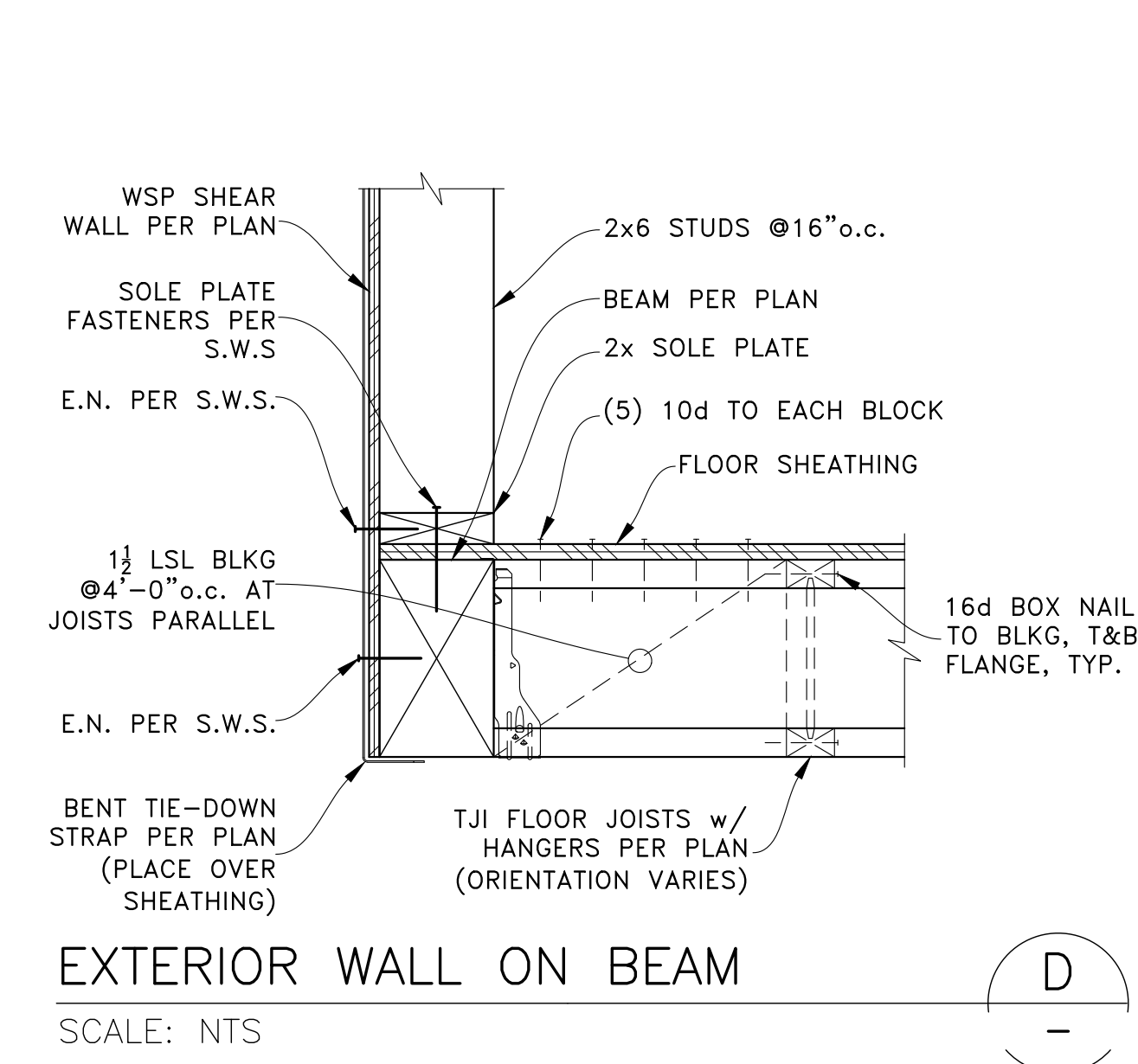
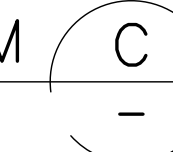
INTERIOR SHEAR WALL AT FLOOR

SCALE: NTS



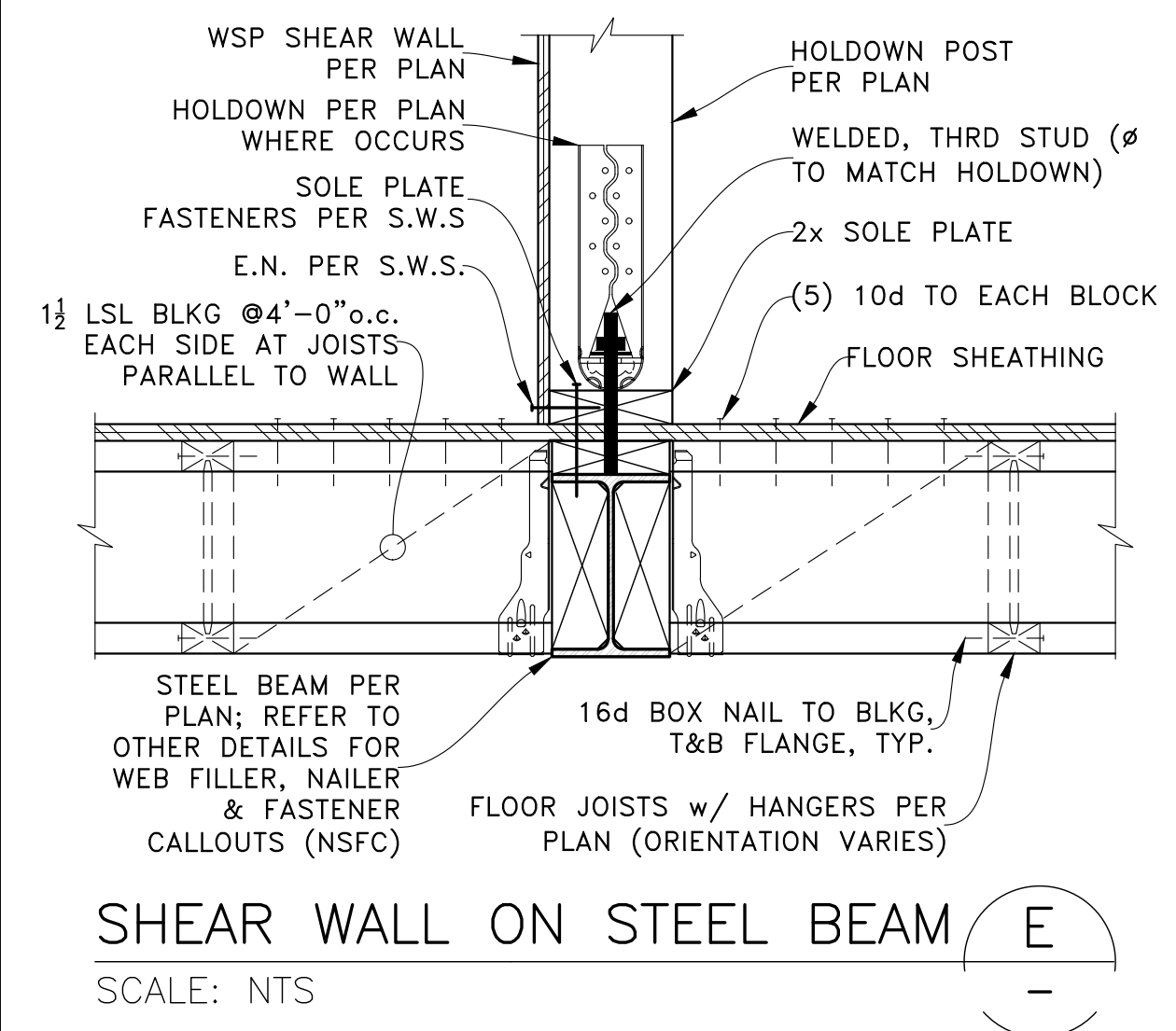
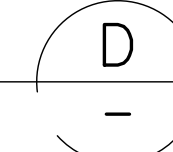
INTERIOR SHEAR WALL ON BEAM

SCALE: NTS



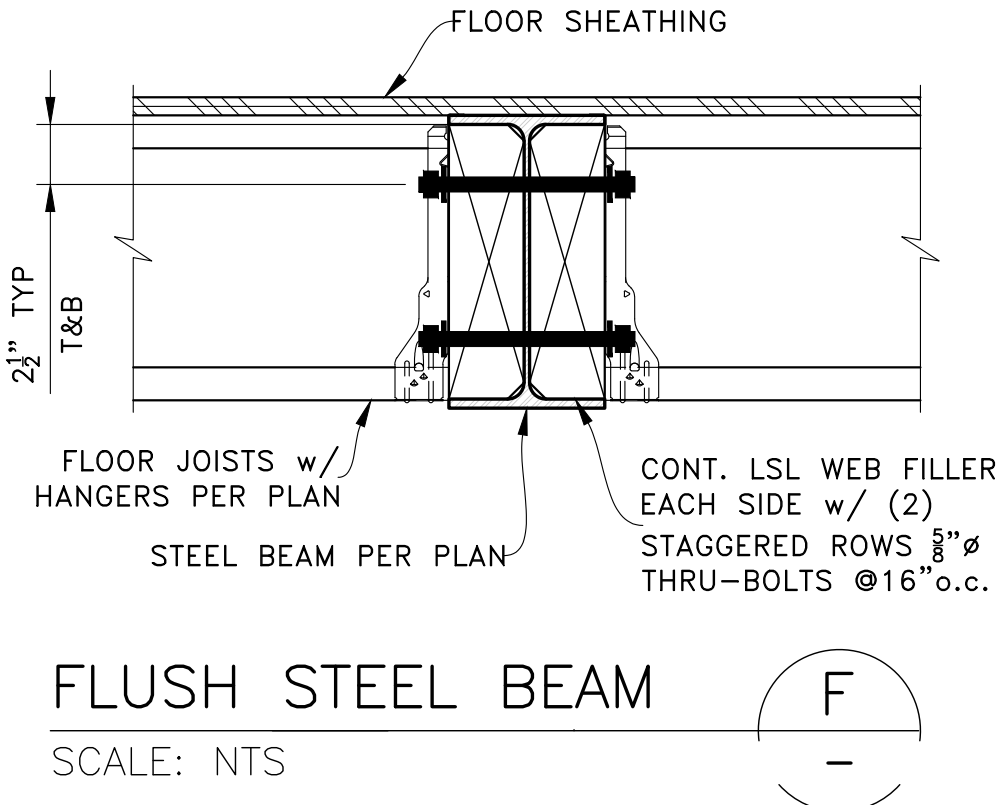
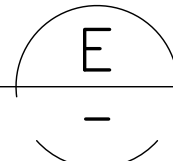
EXTERIOR WALL ON BEAM

SCALE: NTS



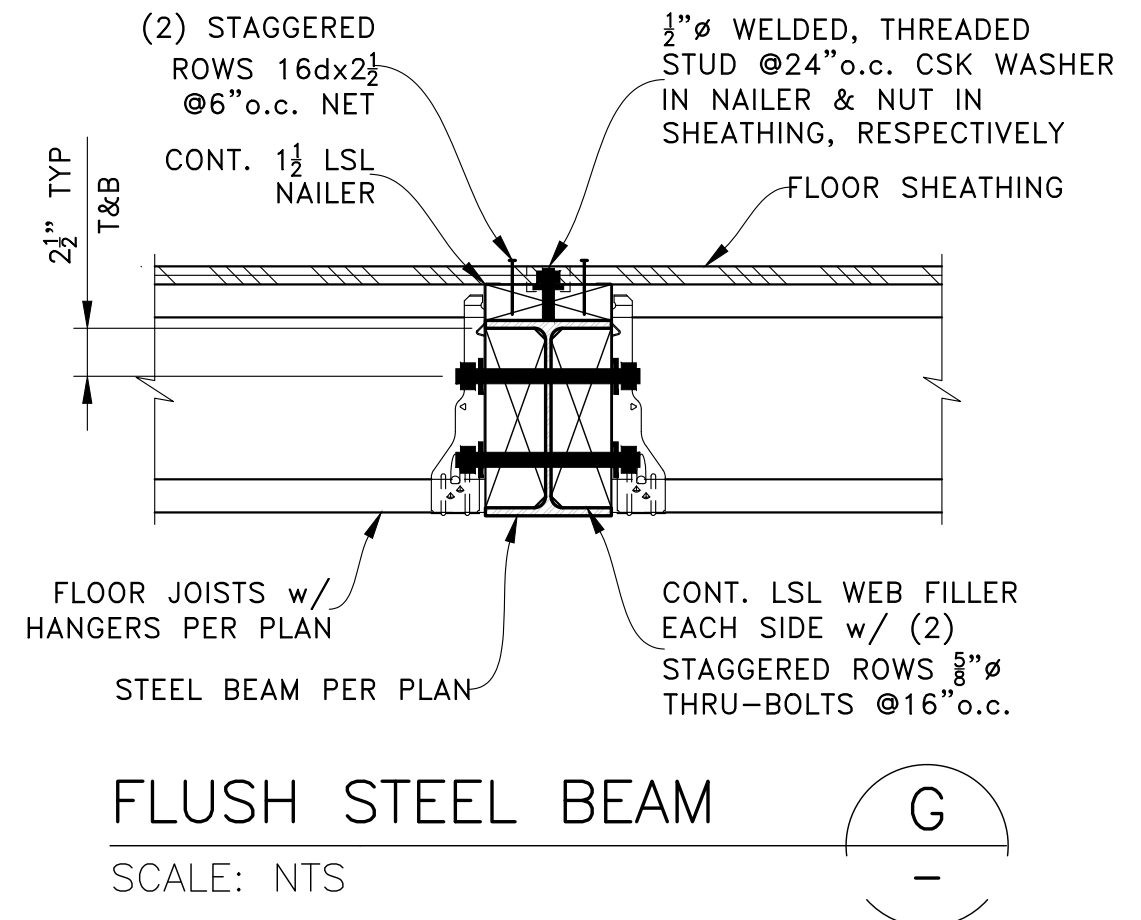
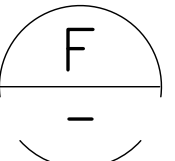
SHEAR WALL ON STEEL BEAM

SCALE: NTS



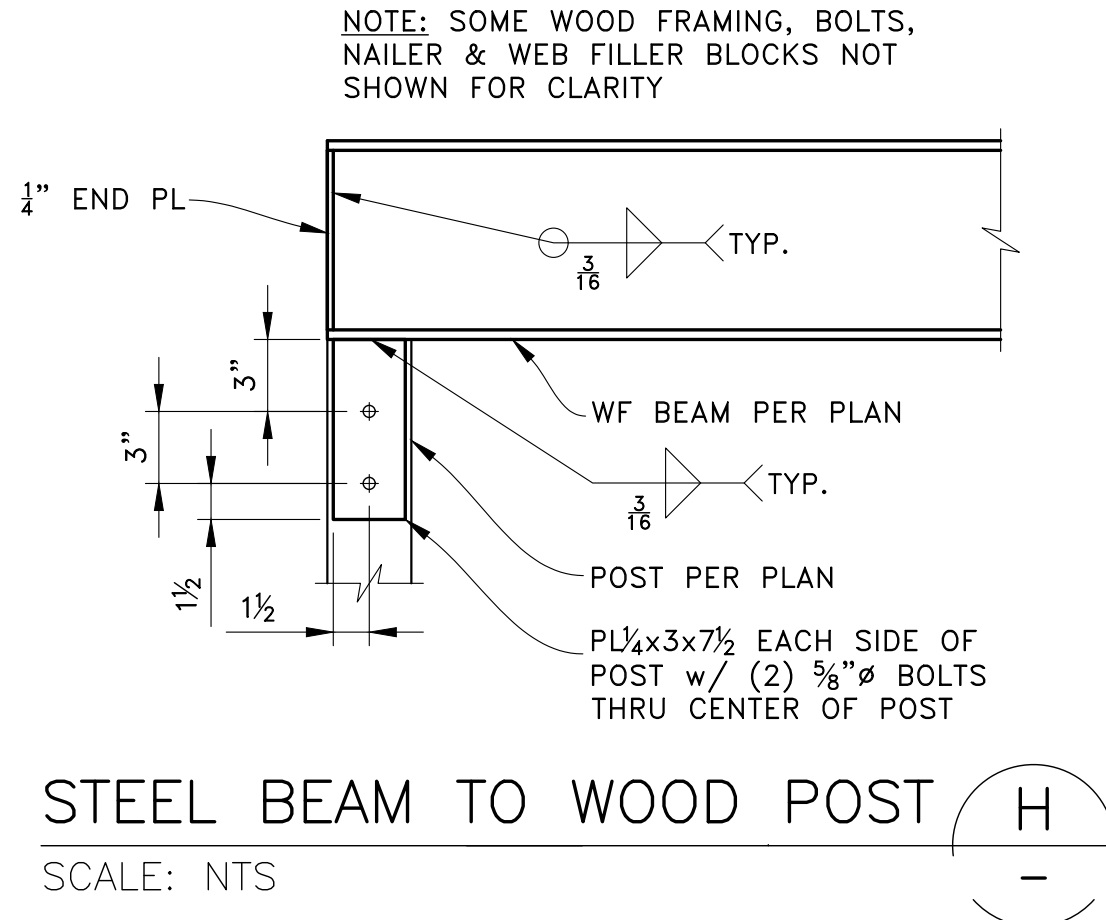
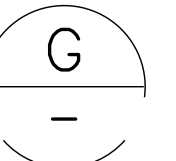
FLUSH STEEL BEAM

SCALE: NTS



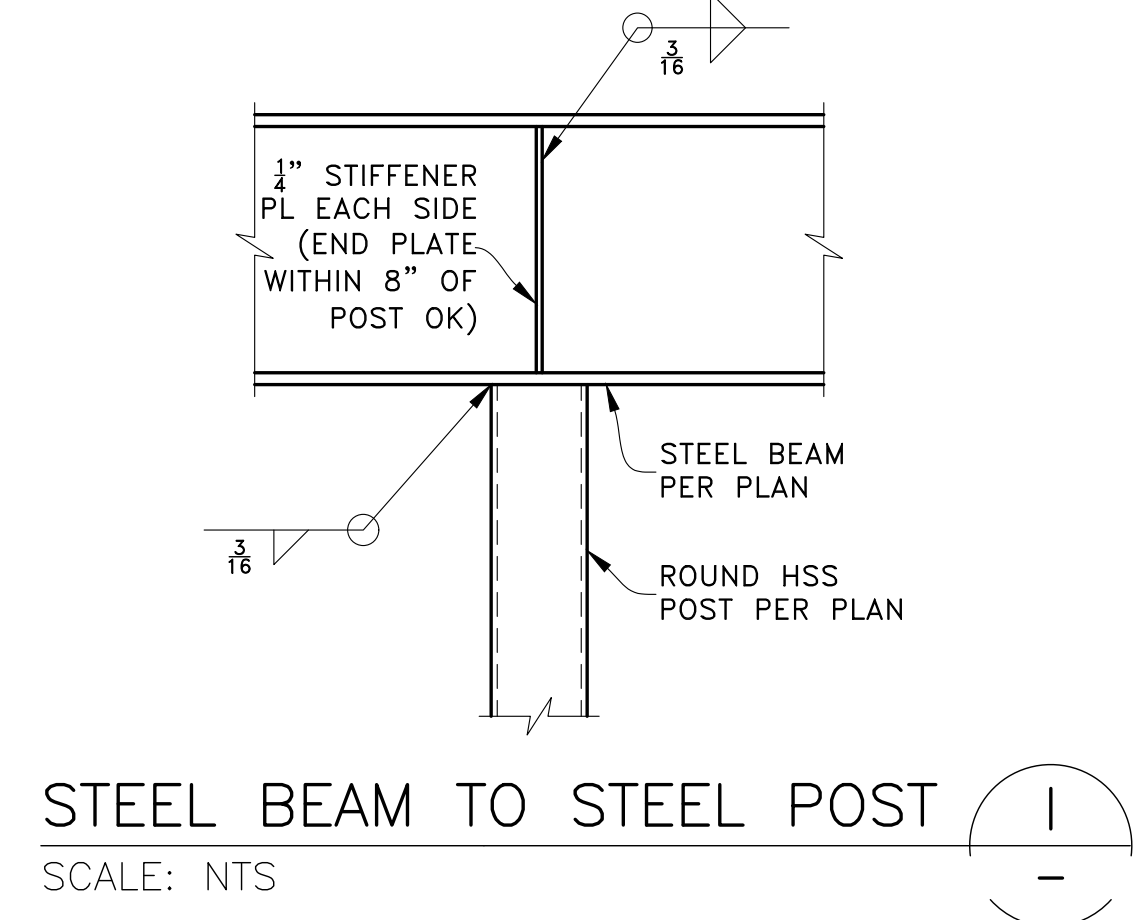
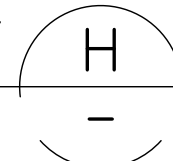
FLUSH STEEL BEAM

SCALE: NTS



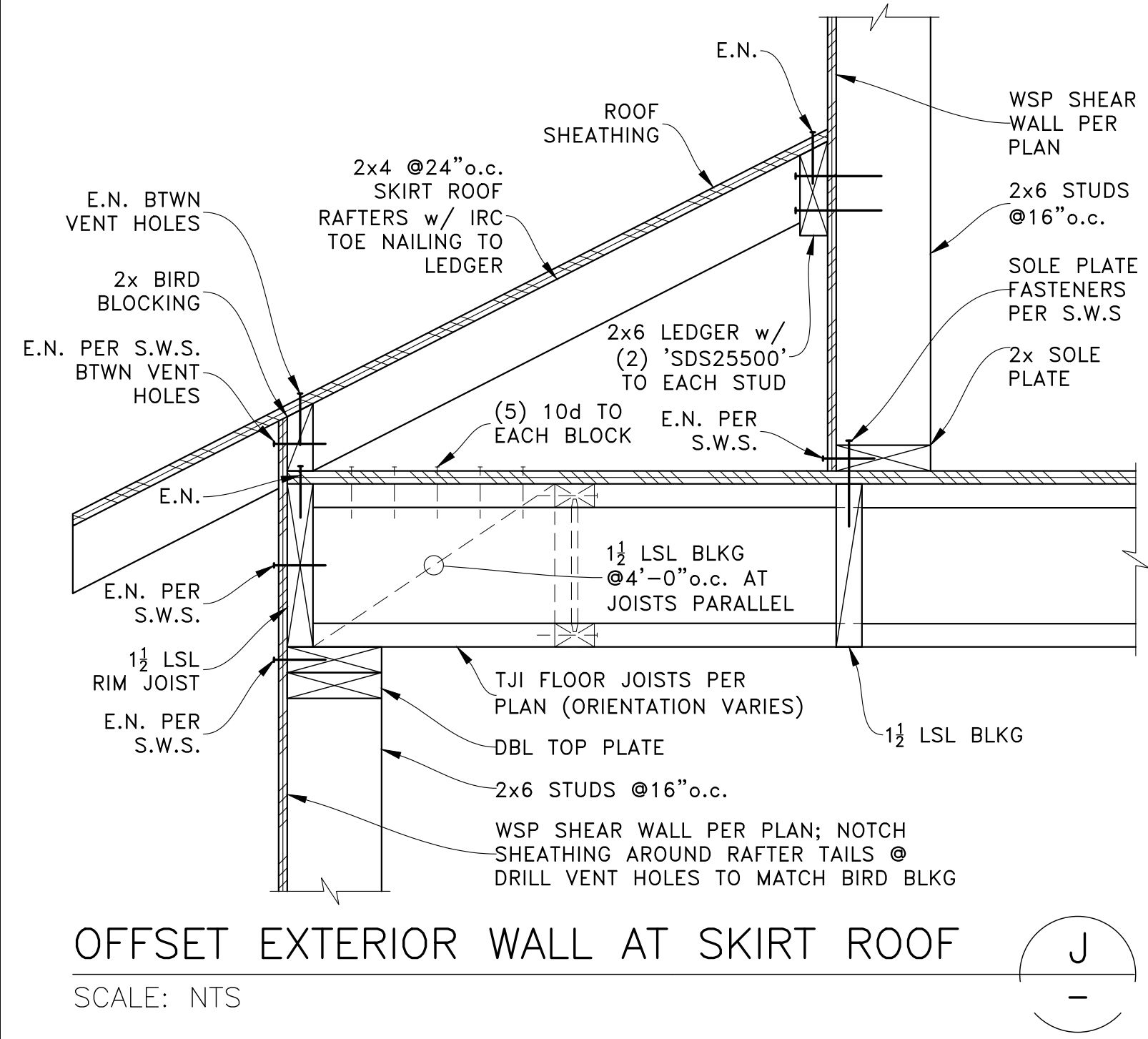
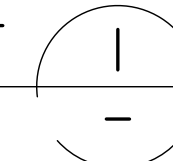
STEEL BEAM TO WOOD POST

SCALE: NTS



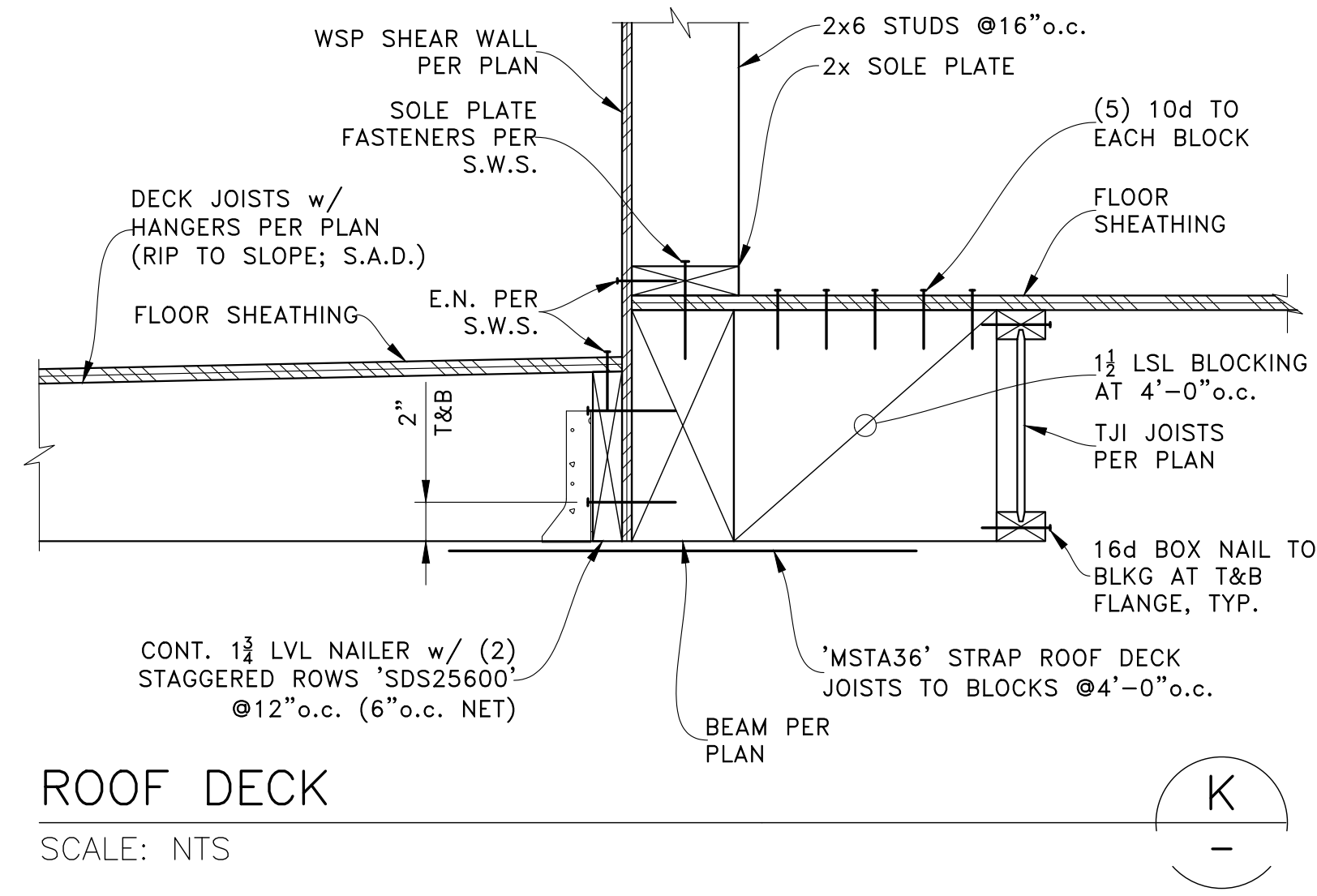
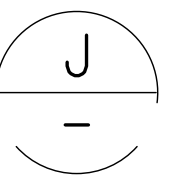
STEEL BEAM TO STEEL POST

SCALE: NTS



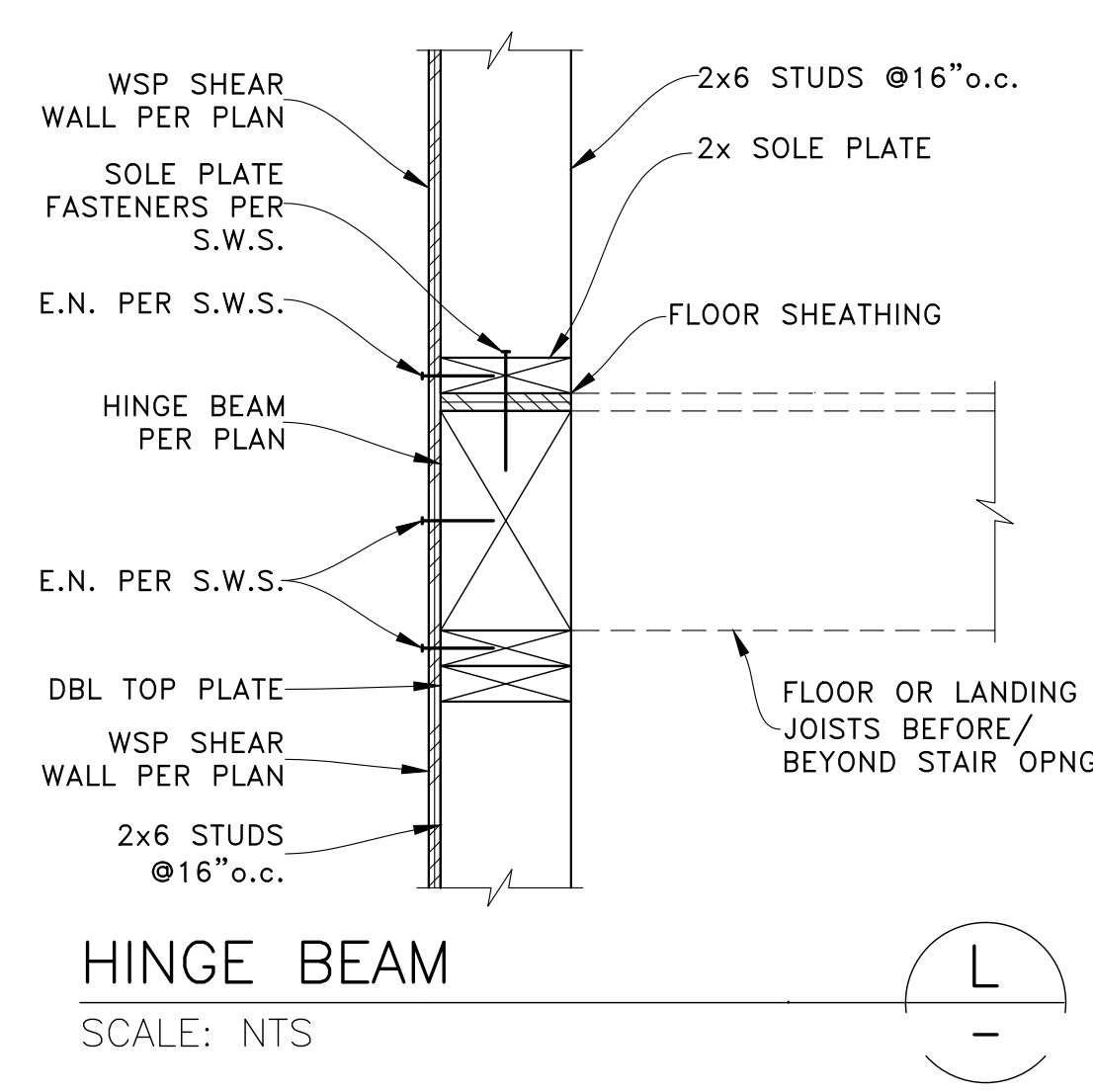
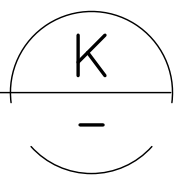
OFFSET EXTERIOR WALL AT SKIRT ROOF

SCALE: NTS



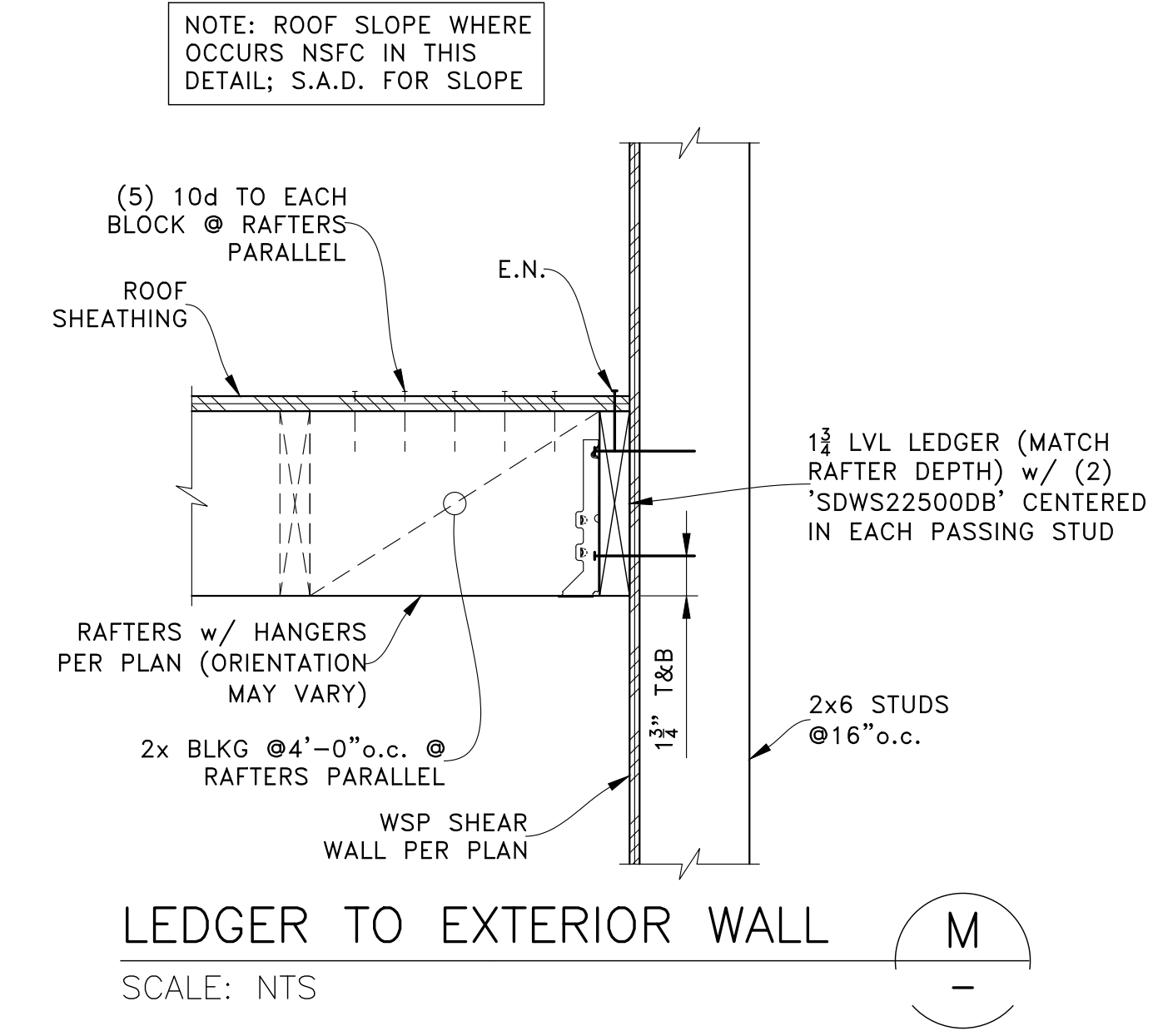
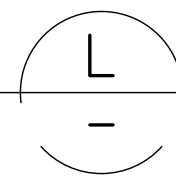
ROOF DECK

SCALE: NTS



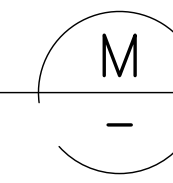
HINGE BEAM

SCALE: NTS

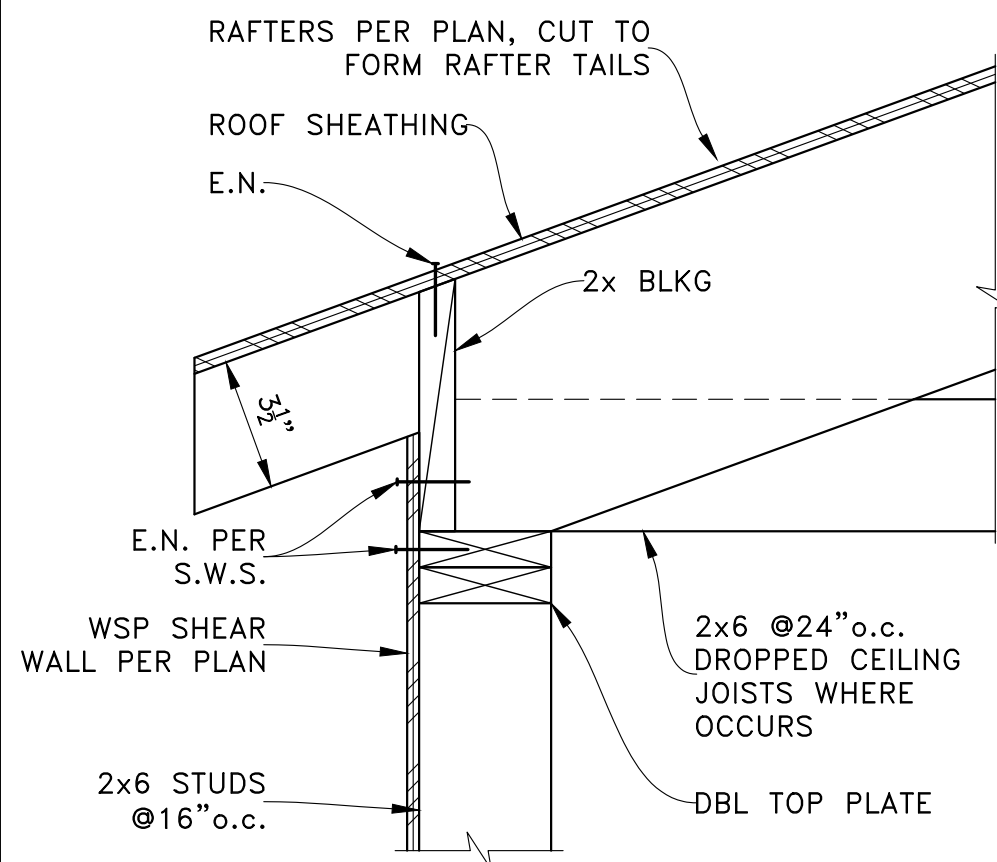


LEDGER TO EXTERIOR WALL

SCALE: NTS



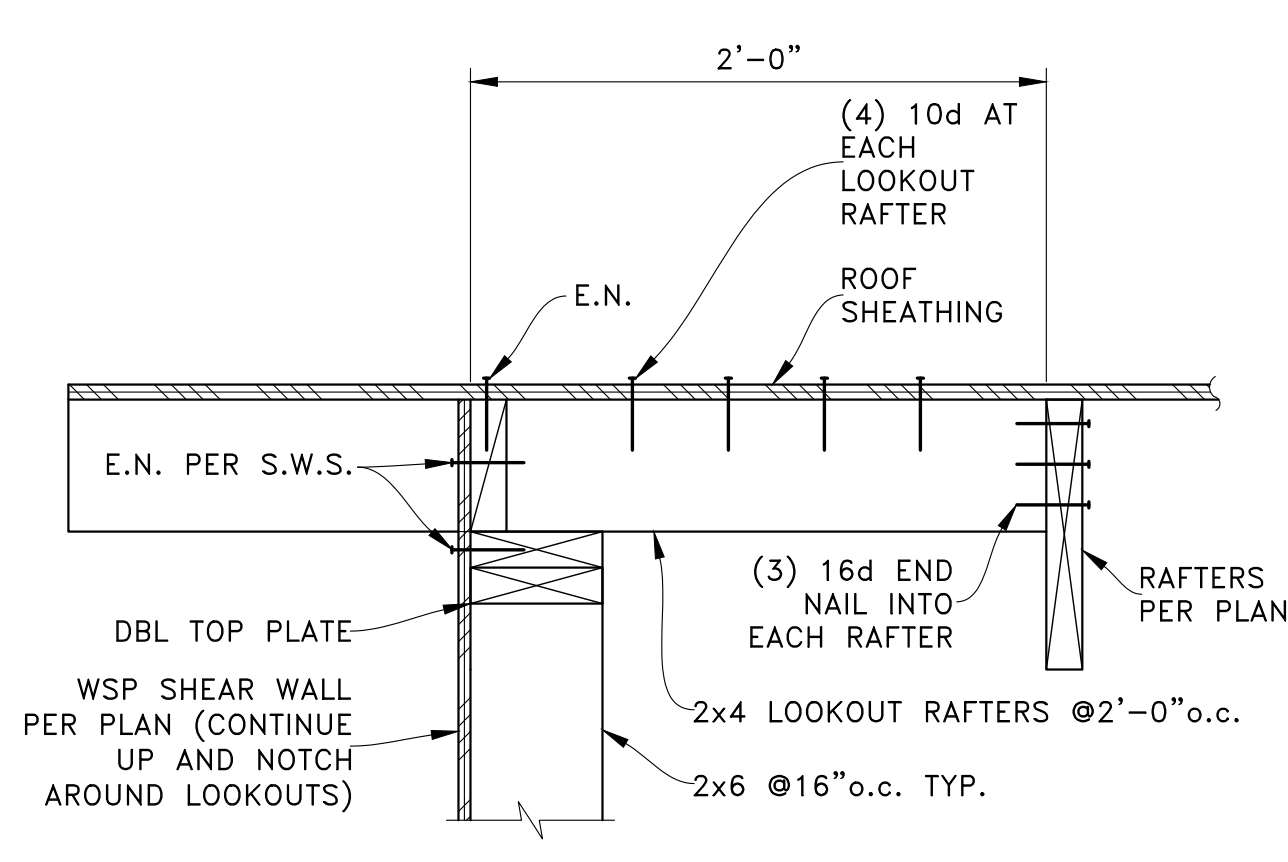
PERMIT SET	
05-15-24	CYCLE 1 CORRECTION RESPONSE
11-01-23	PERMIT SET
REV	DATE
DESCRIPTION	
PROJECT:	NEW SINGLE-FAMILY DWELLING
	5300 Butterworth Road
	Mercer Island, WA 98040
CLIENT:	Ryan & Ashley Asdourian
	5300 Butterworth Road
	Mercer Island, WA 98040
ENGINEER OF RECORD	
O.G. ENGINEERING, PLLC	
3201 1st Ave S, Suite 101, Seattle, WA 98134	
(206) 290-4608	
owen@ogengineer.com	
SHEET TITLE	
SECTIONS & DETAILS	
SCALE:	SHEET NO.
AS NOTED	S8
JOB NO.	23010



STICK ROOF EAVE

SCALE: NTS

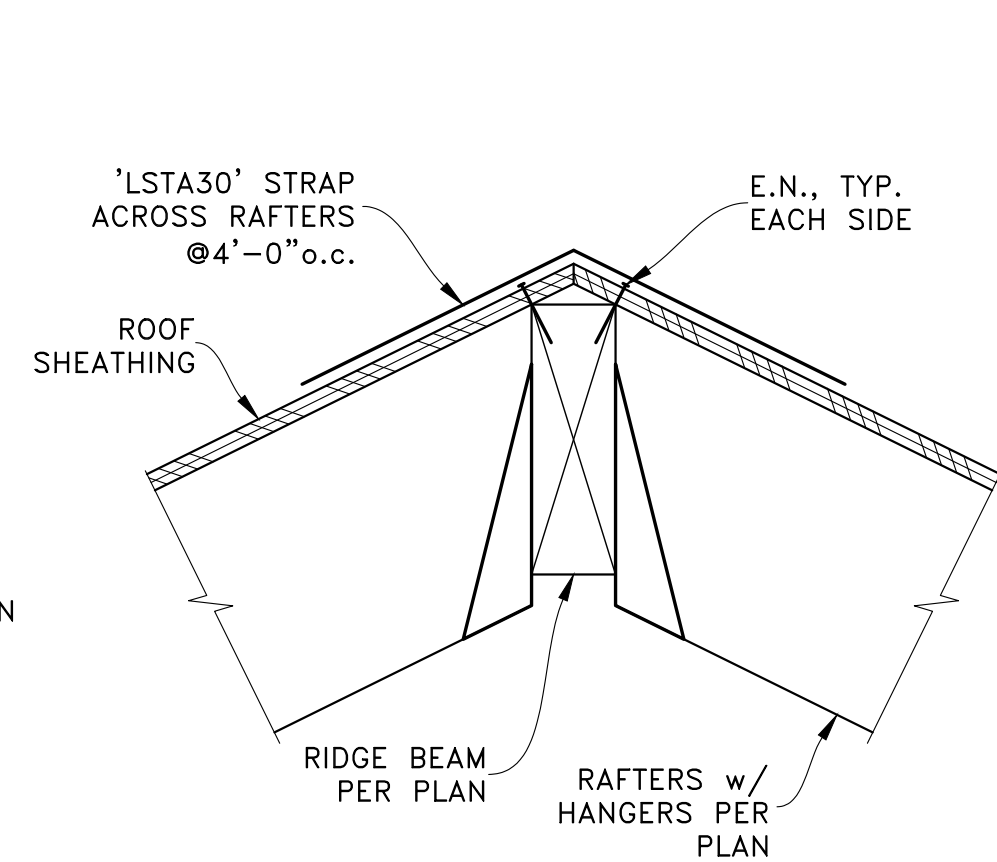
A



STICK ROOF RAKE

SCALE: NTS

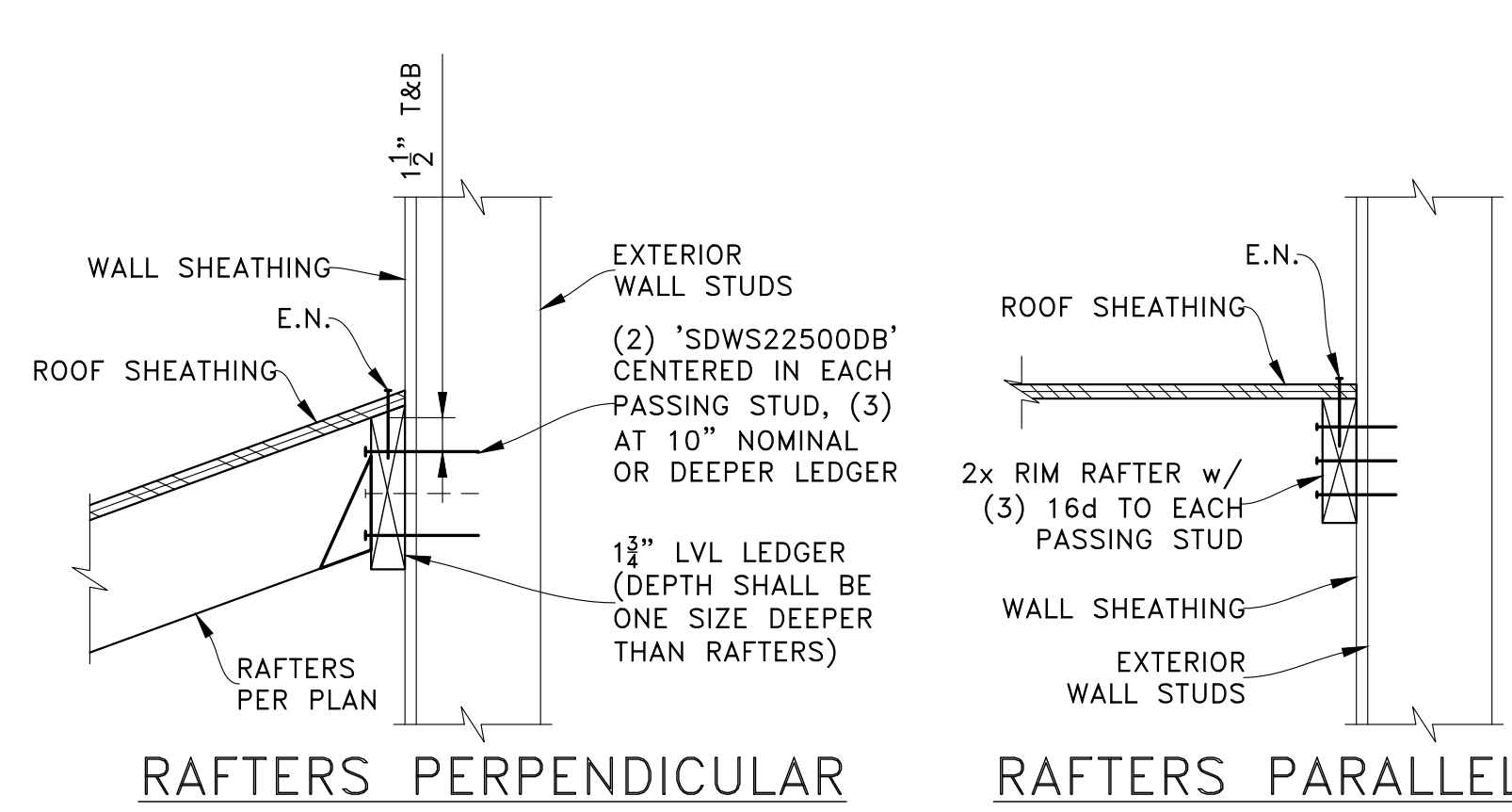
B



RIDGE BEAM

SCALE: NTS

C

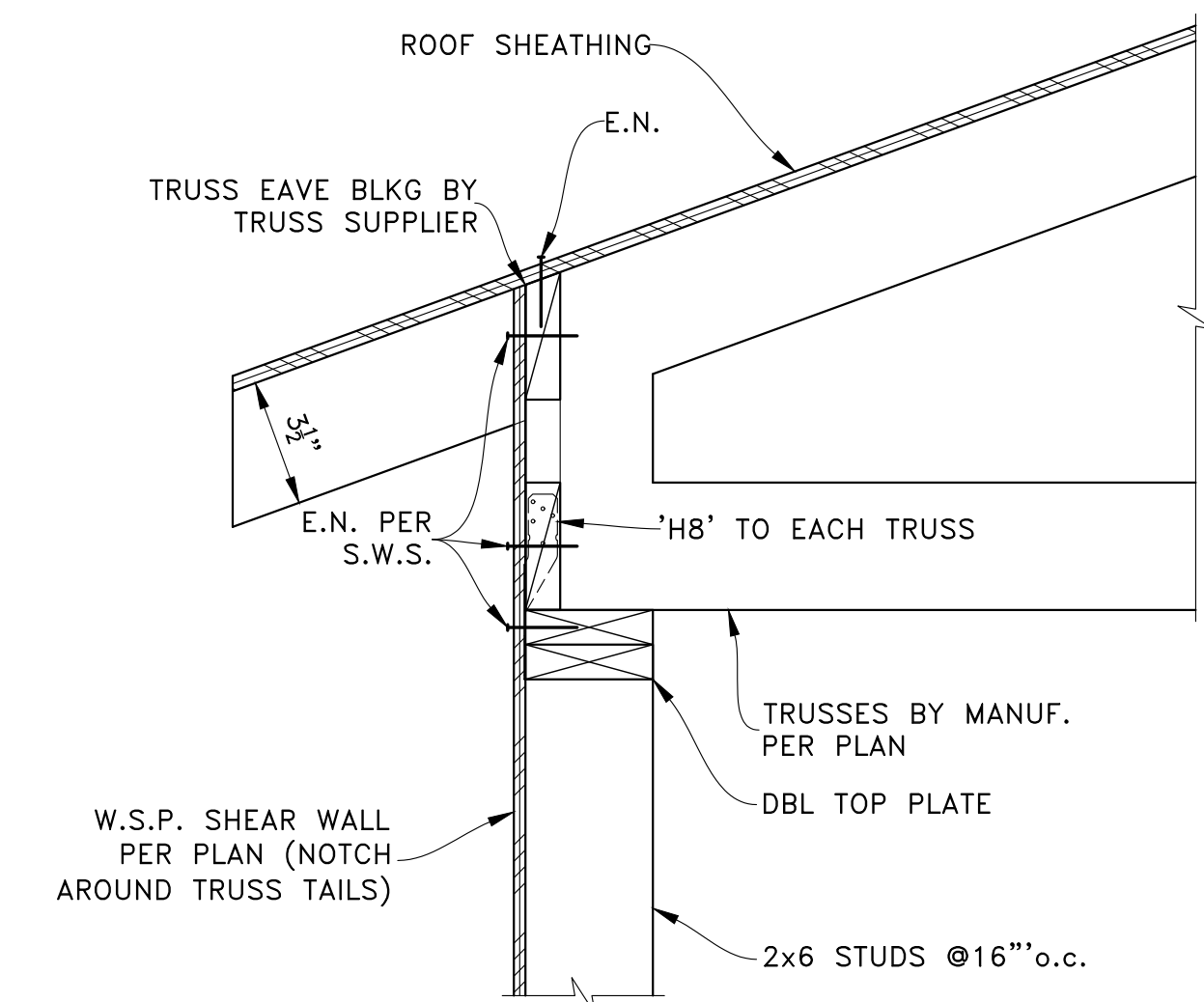


RAFTERS PERPENDICULAR

SCALE: NTS

D

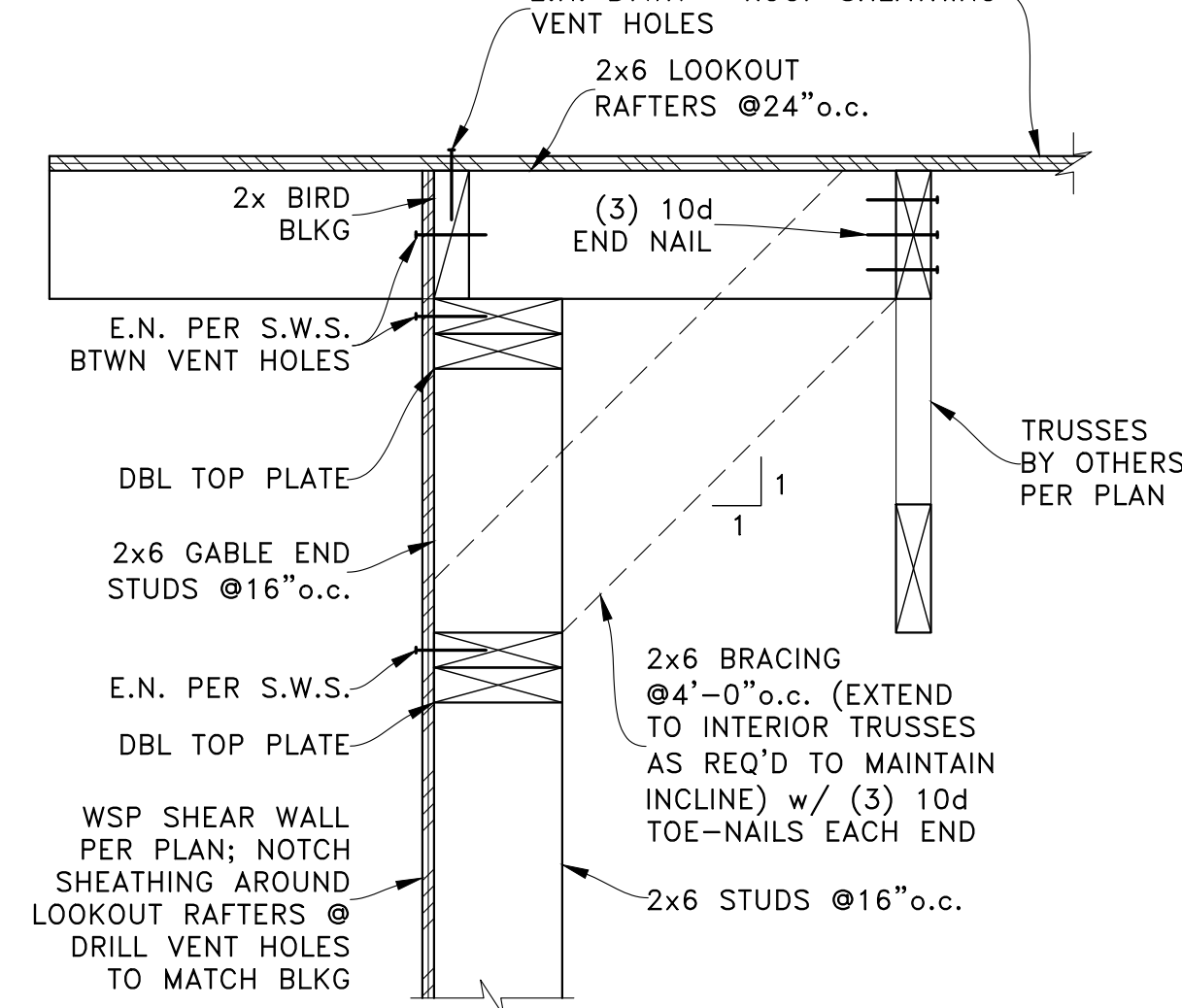
RAFTERS PARALLEL



TRUSS ROOF EAVE

SCALE: NTS

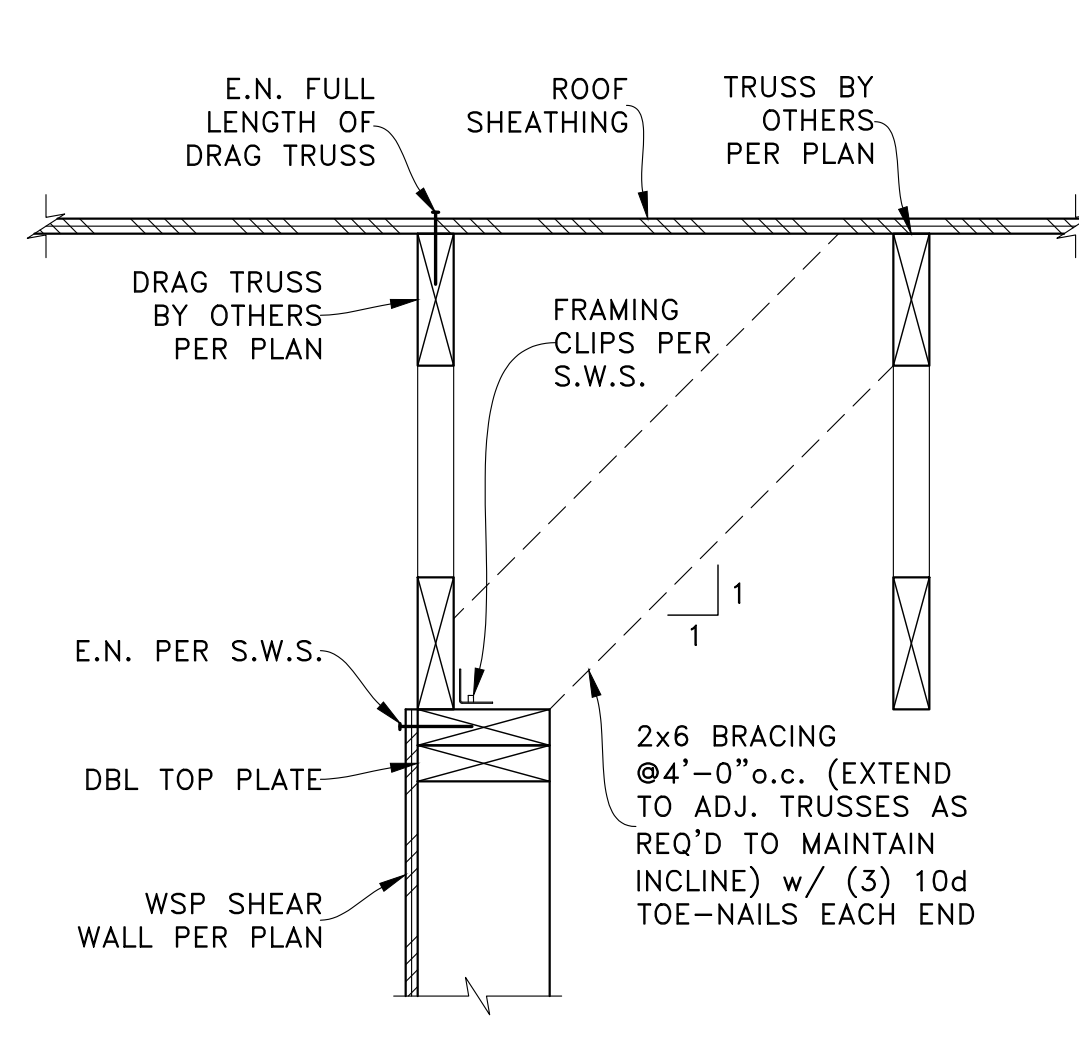
F



TRUSS ROOF RAKE

SCALE: NTS

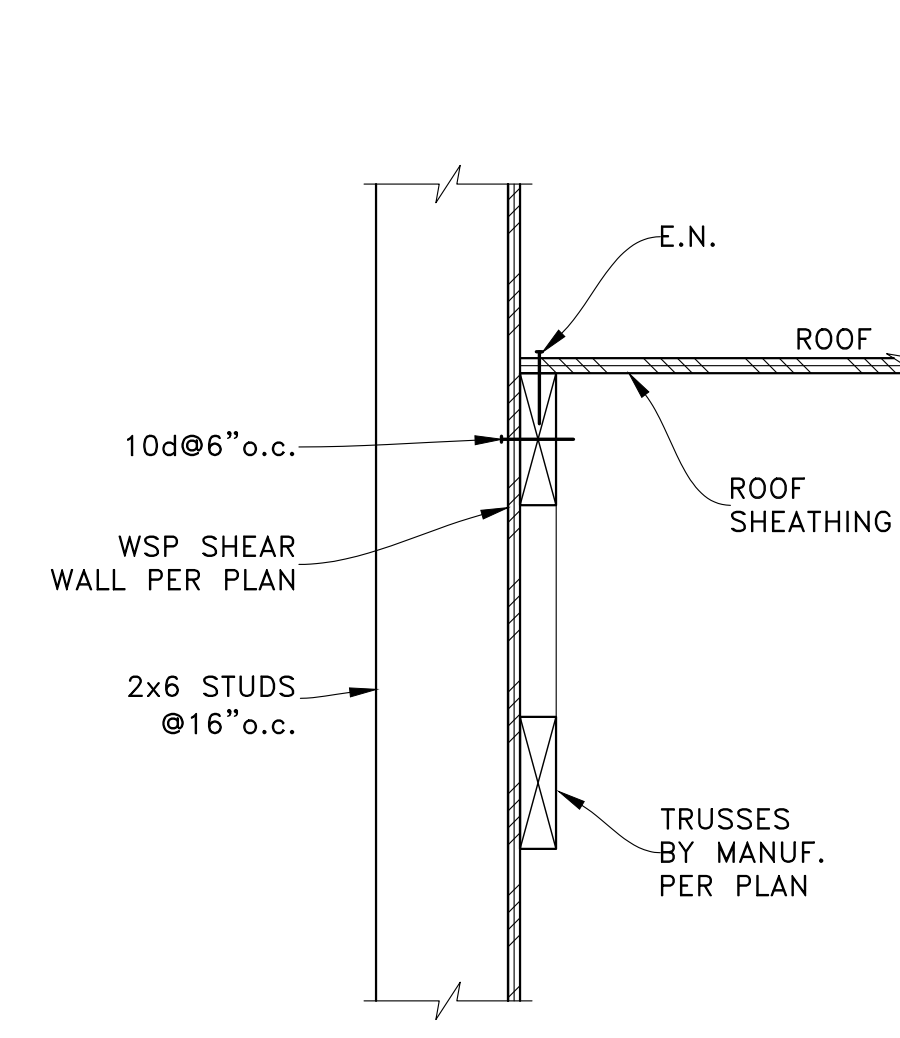
G



INTERIOR SHEAR WALL AT DRAG TRUSS

SCALE: NTS

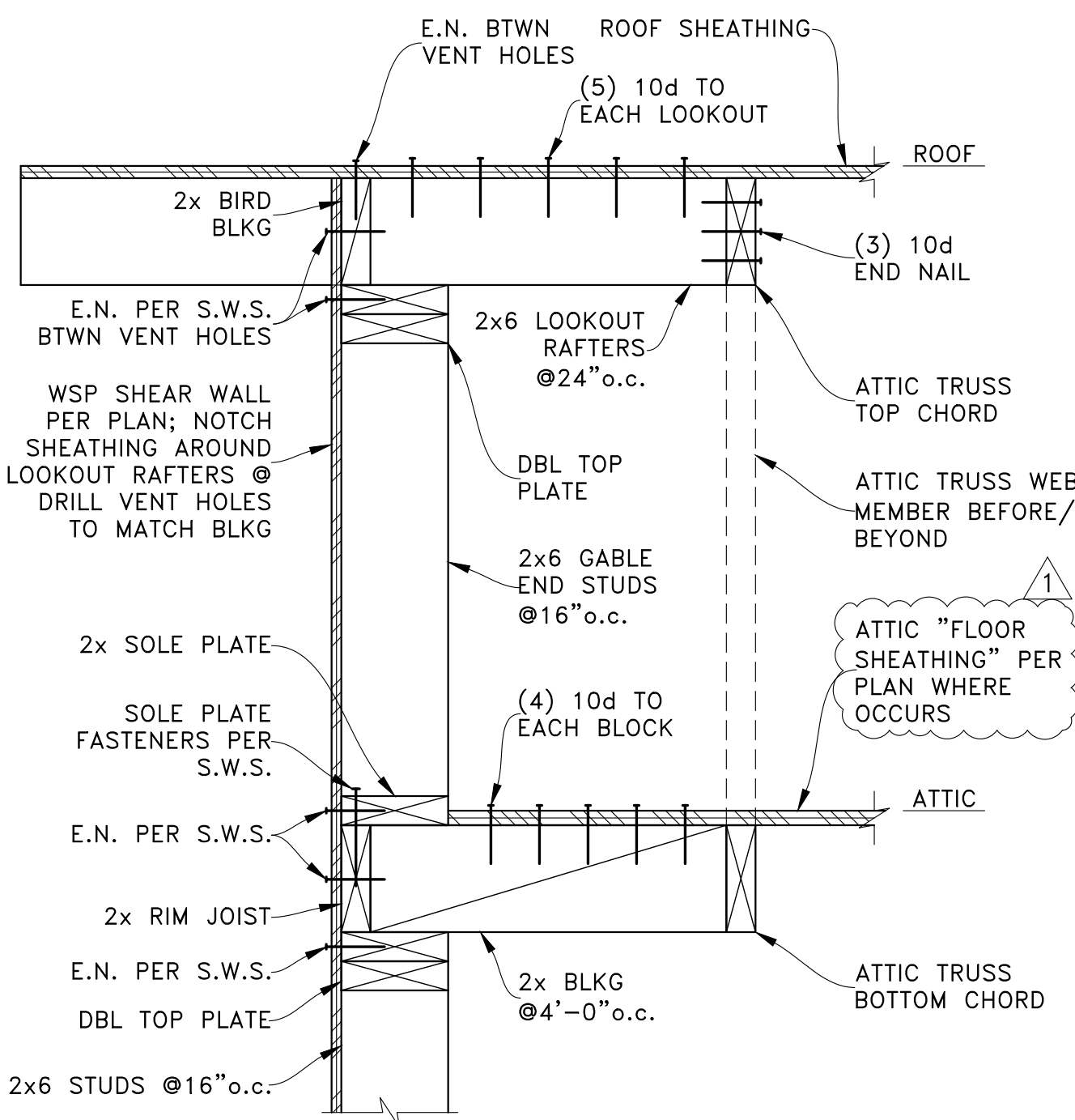
H



LOW ROOF TO WALL

SCALE: NTS

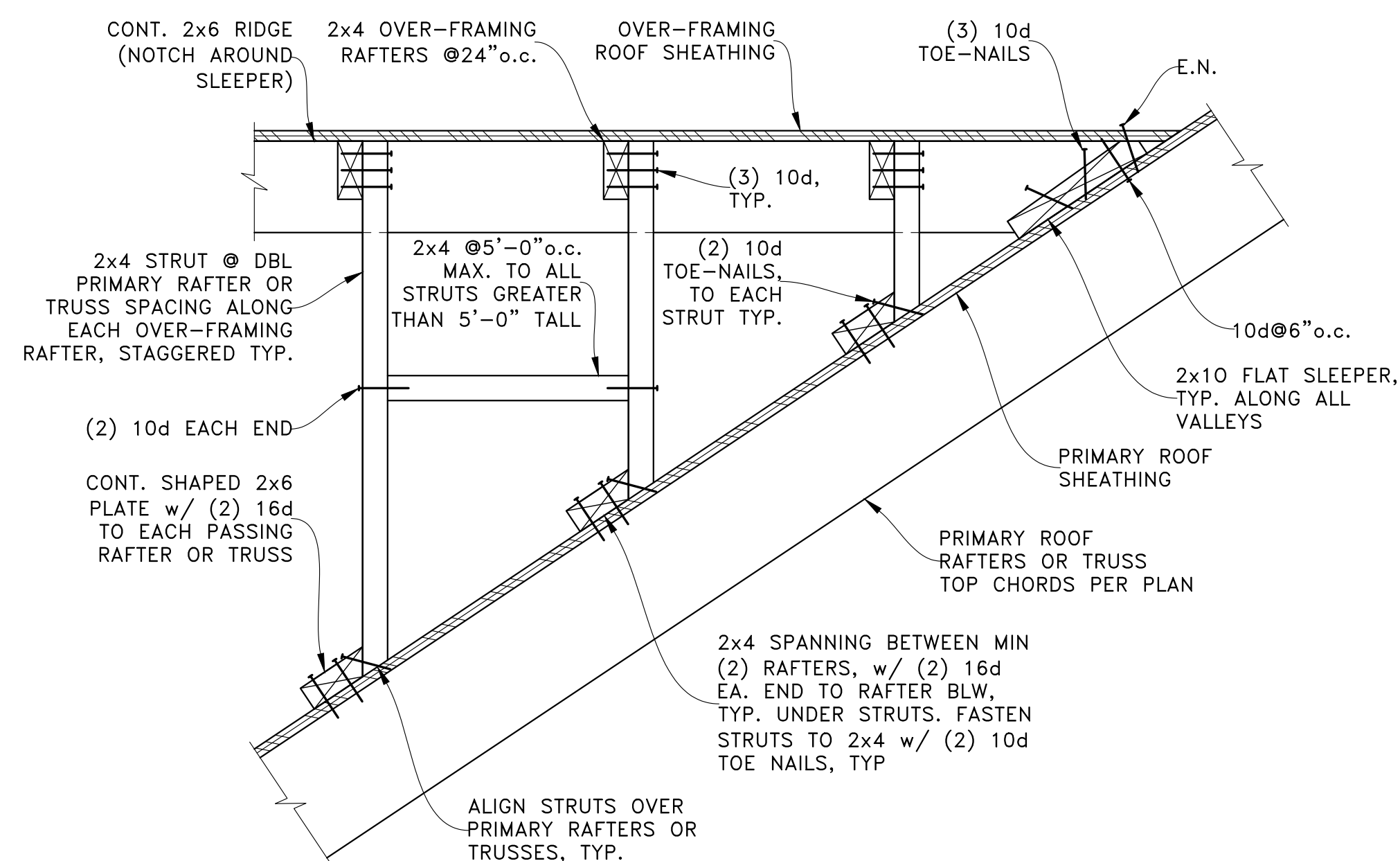
I



ATTIC TRUSS RAKE

SCALE: NTS

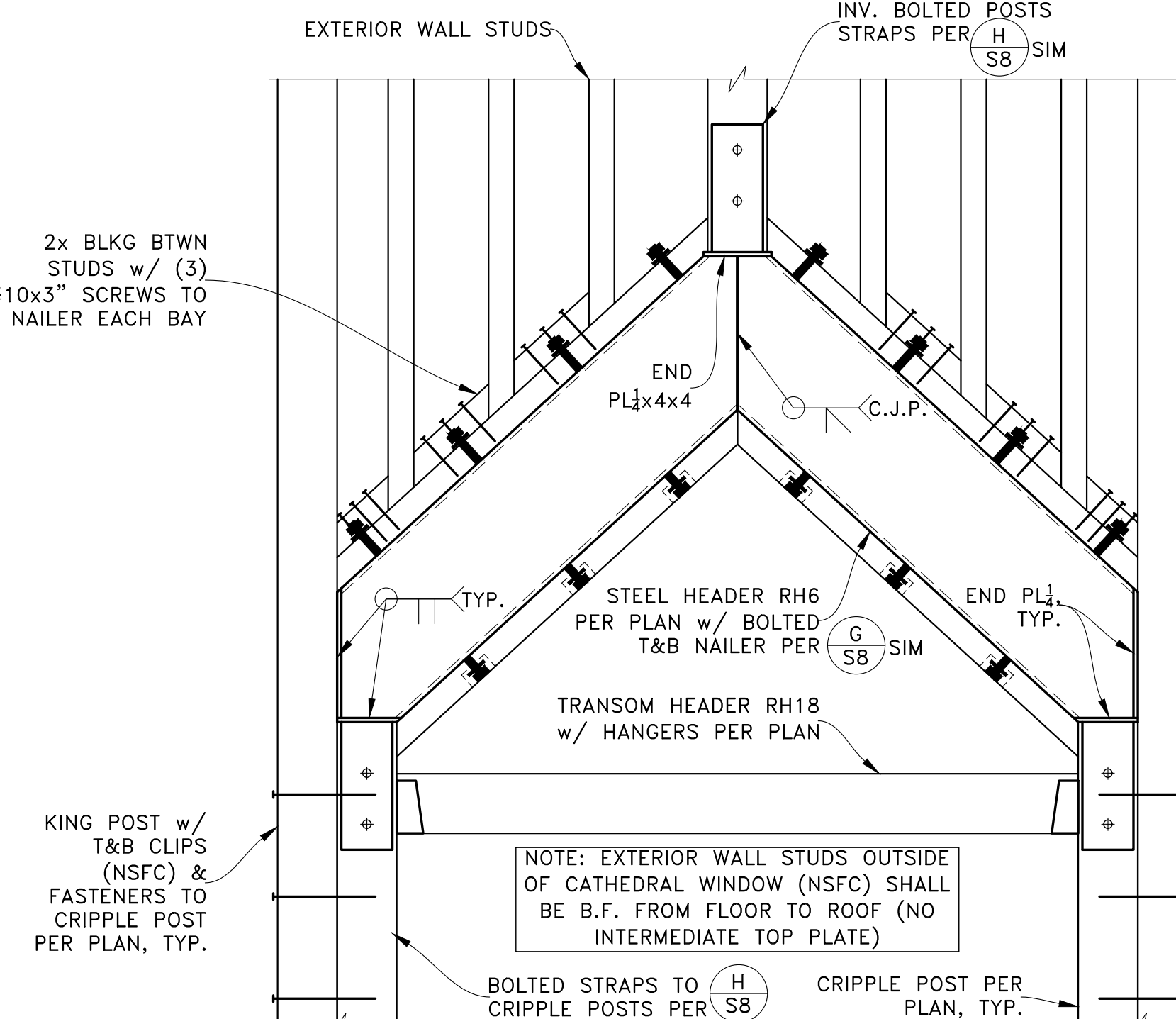
K



TYPICAL OVER-FRAMGING

SCALE: NTS

L



CATHEDRAL WINDOW HEADER

SCALE: NTS

M

PERMIT SET

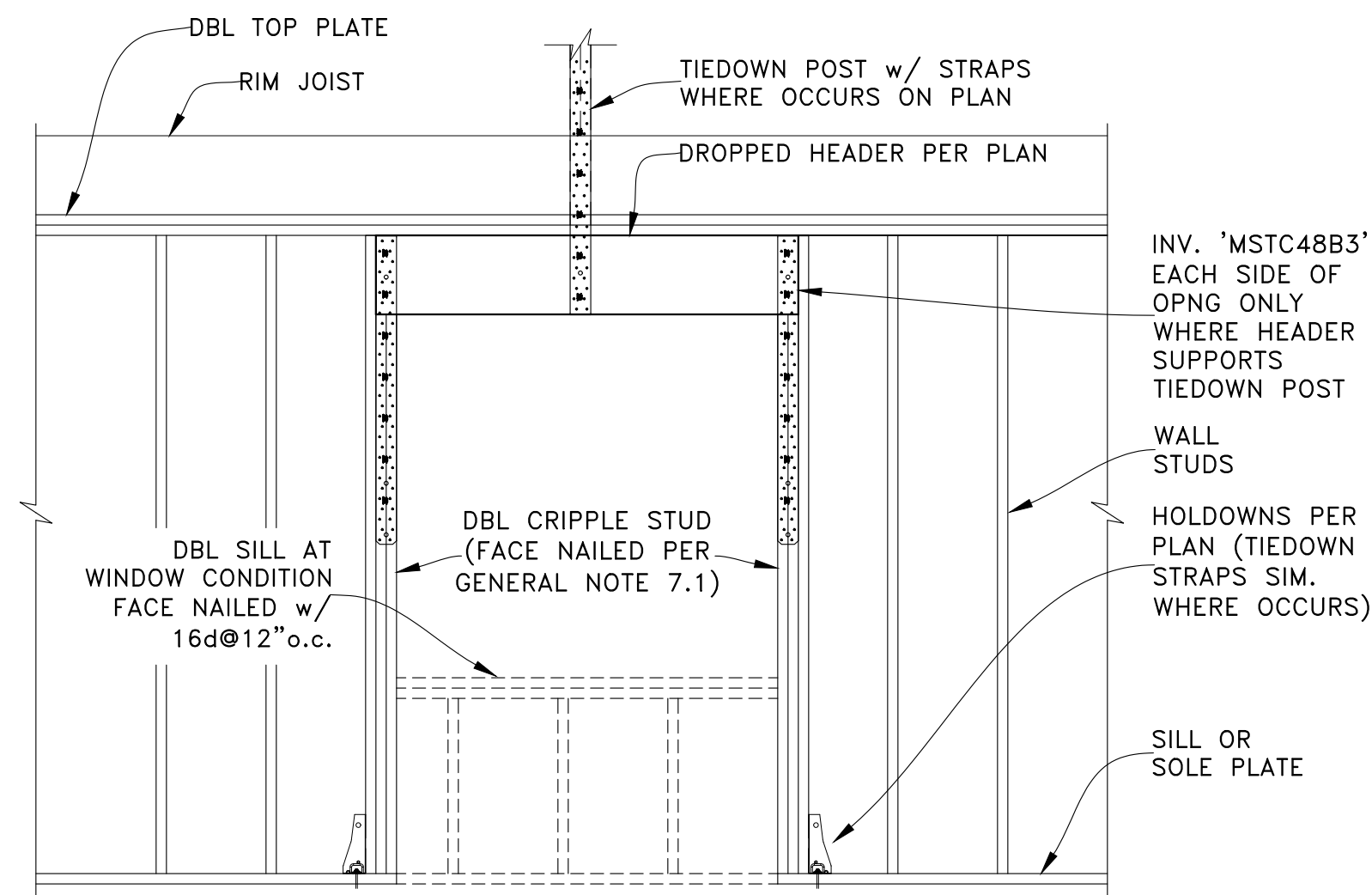
REV	DATE	DESCRIPTION
1	08-15-24	CYCLE 1 CORRECTION RESPONSE
TT	01-23	PERMIT SET

PROJECT: NEW SINGLE-FAMILY DWELLING
5300 Butterworth Road
Mercer Island, WA 98040
CLIENT: Ryan & Ashley Asdourian
5300 Butterworth Road
Mercer Island, WA 98040



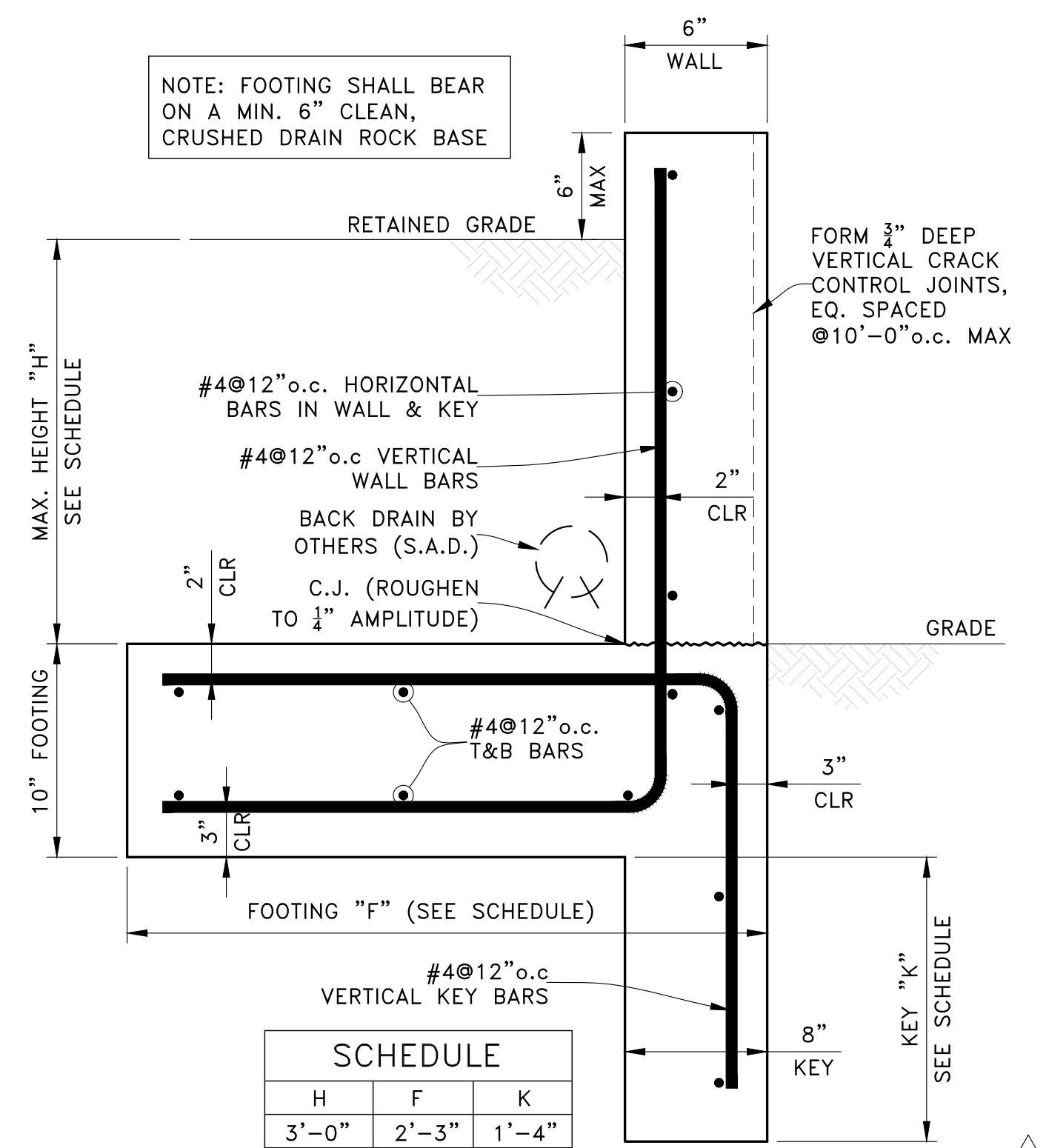
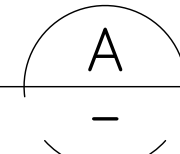
O.G. ENGINEERING, PLLC
3201 1st Ave S, Suite 101, Seattle, WA 98134
(206) 290-4608
owen@ogengineer.com
ENGINEER OF RECORD
SHEET TITLE: SECTIONS & DETAILS

SCALE: AS NOTED
JOB NO. 23010
SHEET NO. S9



TIEDOWN TO DROPPED HEADER

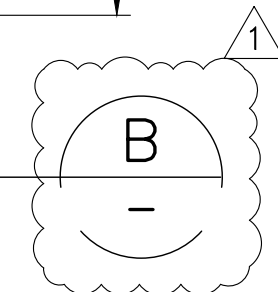
SCALE: NTS



SCHEDULE		
H	F	K
3'-0"	2'-3"	1'-4"
2'-0"	1'-6"	9"

NORTH SITE RETAINING WALL

SCALE: NTS



PERMIT SET	
08-15-24	CYCLE 1 CORRECTION RESPONSE
11-01-23	PERMIT SET
REV	DATE
	DESCRIPTION

PROJECT: **NEW SINGLE-FAMILY DWELLING**
5300 Butterworth Road
Mercer Island, WA 98040

CLIENT: **Ryan & Ashley Asdourian**
5300 Butterworth Road
Mercer Island, WA 98040



ENGINEER OF RECORD

O.G. ENGINEERING, PLLC
3201 1st Ave S, Suite 101, Seattle, WA 98134
(206) 290-4608
owen@ogengineer.com

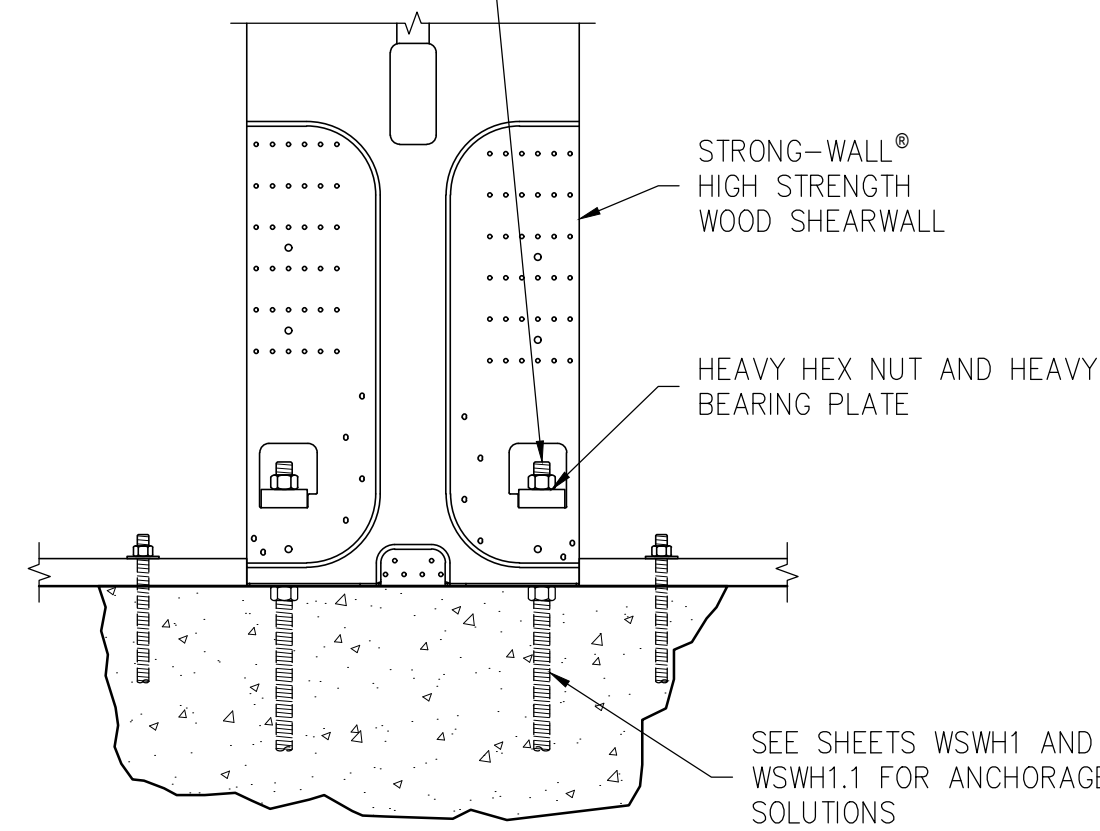
SHEET TITLE: **SECTIONS & DETAILS**

STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL MODELS

MODEL NO.	W (in.)	H (in.)	ANCHOR BOLTS		TOTAL WALL WEIGHT (lb.)
			QUANTITY	DIA. (in.)	
WSWH12x7	12	84	2	1	105
WSWH18x7	18	84	2	1	155
WSWH12x8	12	96	2	1	120
WSWH18x8	18	96	2	1	175
WSWH24x8	24	96	2	1	225
WSWH12x9	12	108	2	1	130
WSWH18x9	18	108	2	1	195
WSWH24x9	24	108	2	1	250
WSWH12x10	12	120	2	1	145
WSWH18x10	18	120	2	1	210
WSWH24x10	24	120	2	1	275
WSWH12x12	12	144	2	1	165
WSWH18x12	18	144	2	1	245
WSWH24x12	24	144	2	1	325
WSWH18x14	18	168	2	1	285
WSWH24x14	24	168	2	1	370
WSWH24x16	24	192	2	1	420
WSWH18x20	18	240	2	1	390
WSWH24x20	24	240	2	1	520

- NOTES :**
- FOR HEIGHTS NOT LISTED, ORDER THE NEXT TALLEST PANEL AND TRIM TO FIT. MINIMUM TRIMMED HEIGHT FOR ALL PANELS IS 74 1/2".
 - ALL PANELS COME WITH PRE-ATTACHED HOLD-DOWNS, TWO HEAVY HEX NUTS, TWO HEAVY BEARING PLATES, ONE WSWH-TP TOP CONNECTION PLATE WITH REQUIRED FASTENERS AND INSTALLATION INSTRUCTIONS.
 - ALL PANELS ARE 3/2" THICK.

PLACE STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL OVER THE ANCHOR BOLTS AND SECURE WITH HEAVY BEARING PLATES AND HEAVY HEX NUTS (PROVIDED). DO NOT USE AN IMPACT WRENCH. USE 1 1/8" WRENCH FOR 1" NUT. TIGHTEN ANCHOR NUTS FINGER TIGHT + 1/2" TURN.

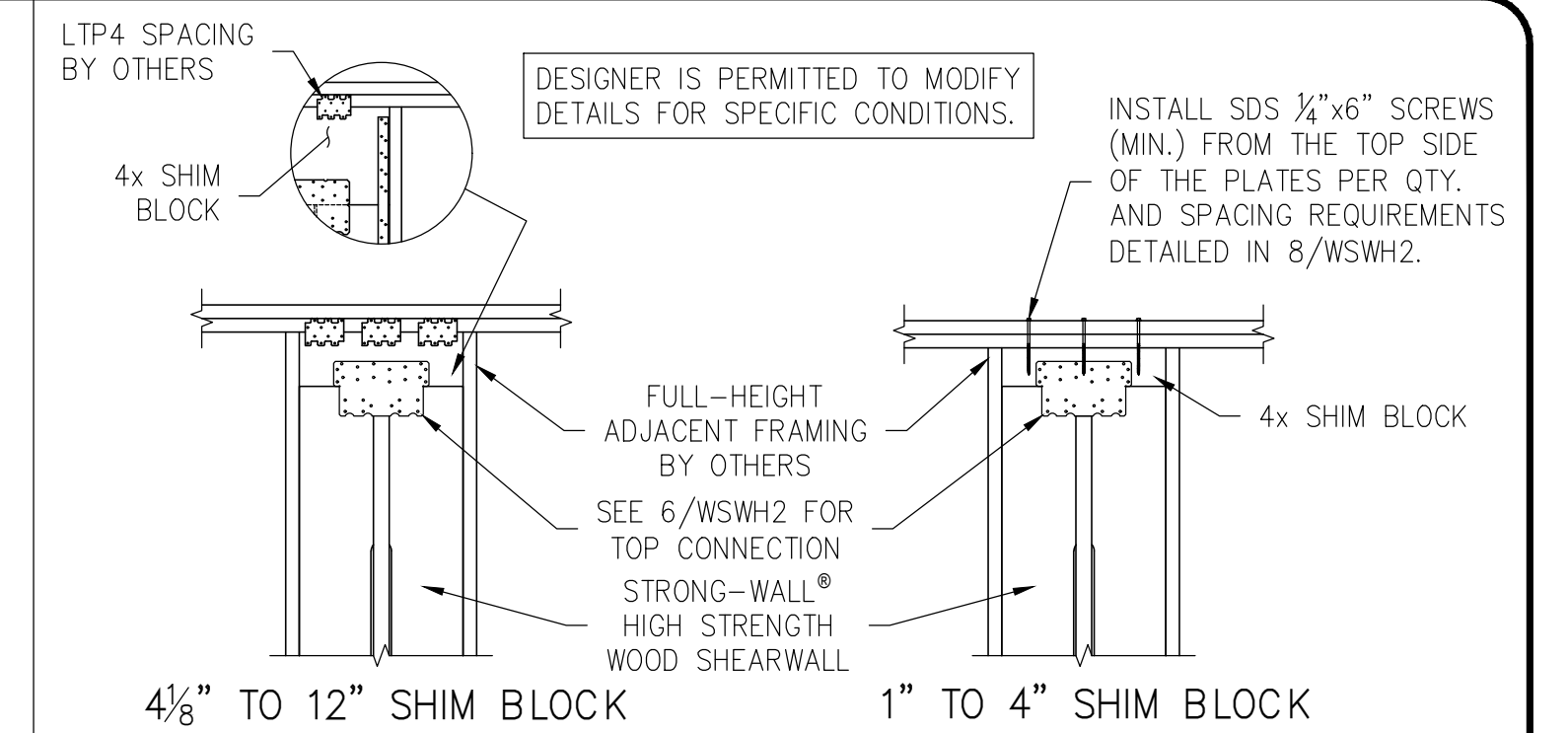
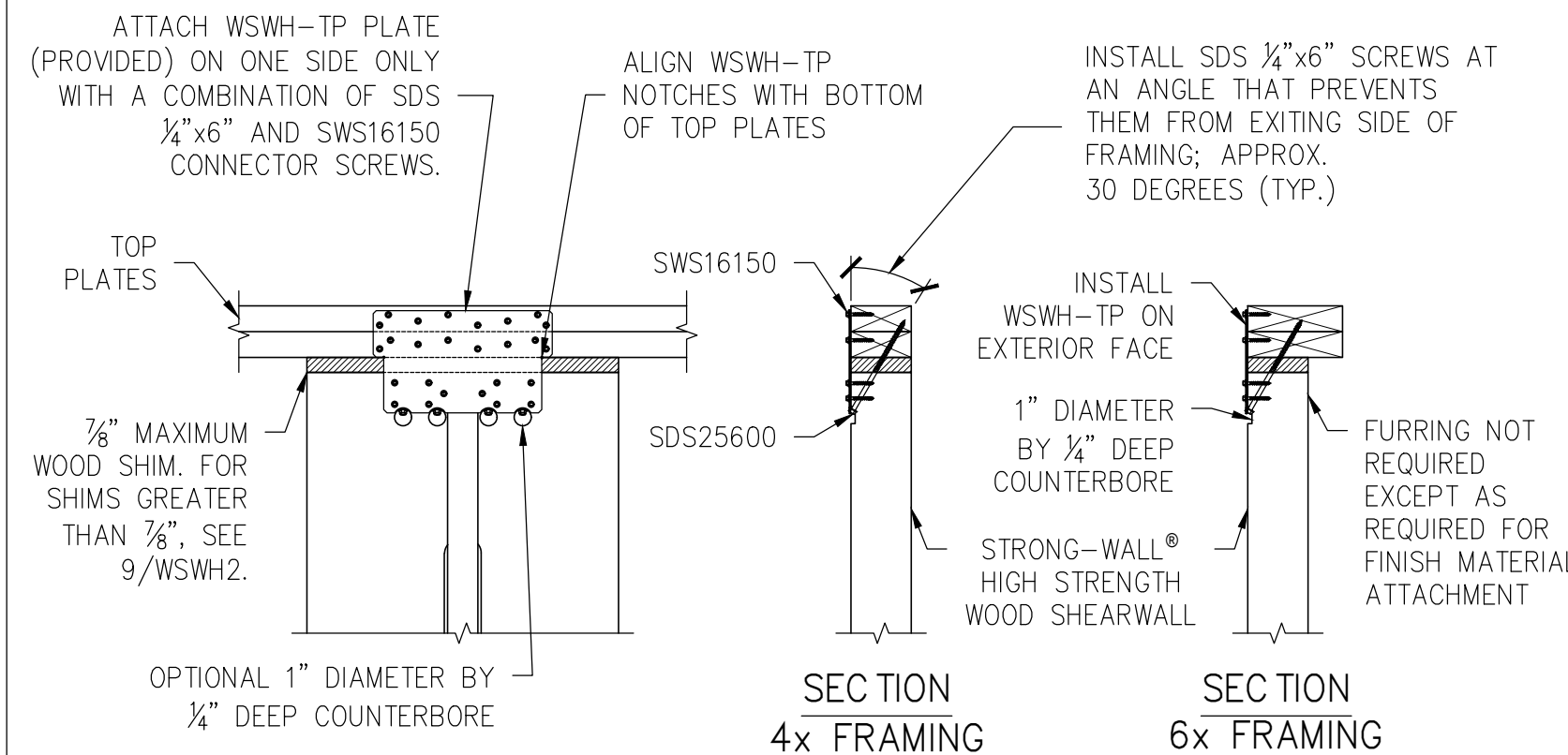


PER PLAN, USE SIMPSON® SB1x30 IN LIEU OF WSW ANCHOR BOLTS

DESIGNER IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.

MODEL NO.	WSWH-TP CONNECTION FASTENER QUANTITY	
	SWS16150	SDS25600
WSWH-TP12	14	2
WSWH-TP18	26	4
WSWH-TP24	46	8

DESIGNER IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.

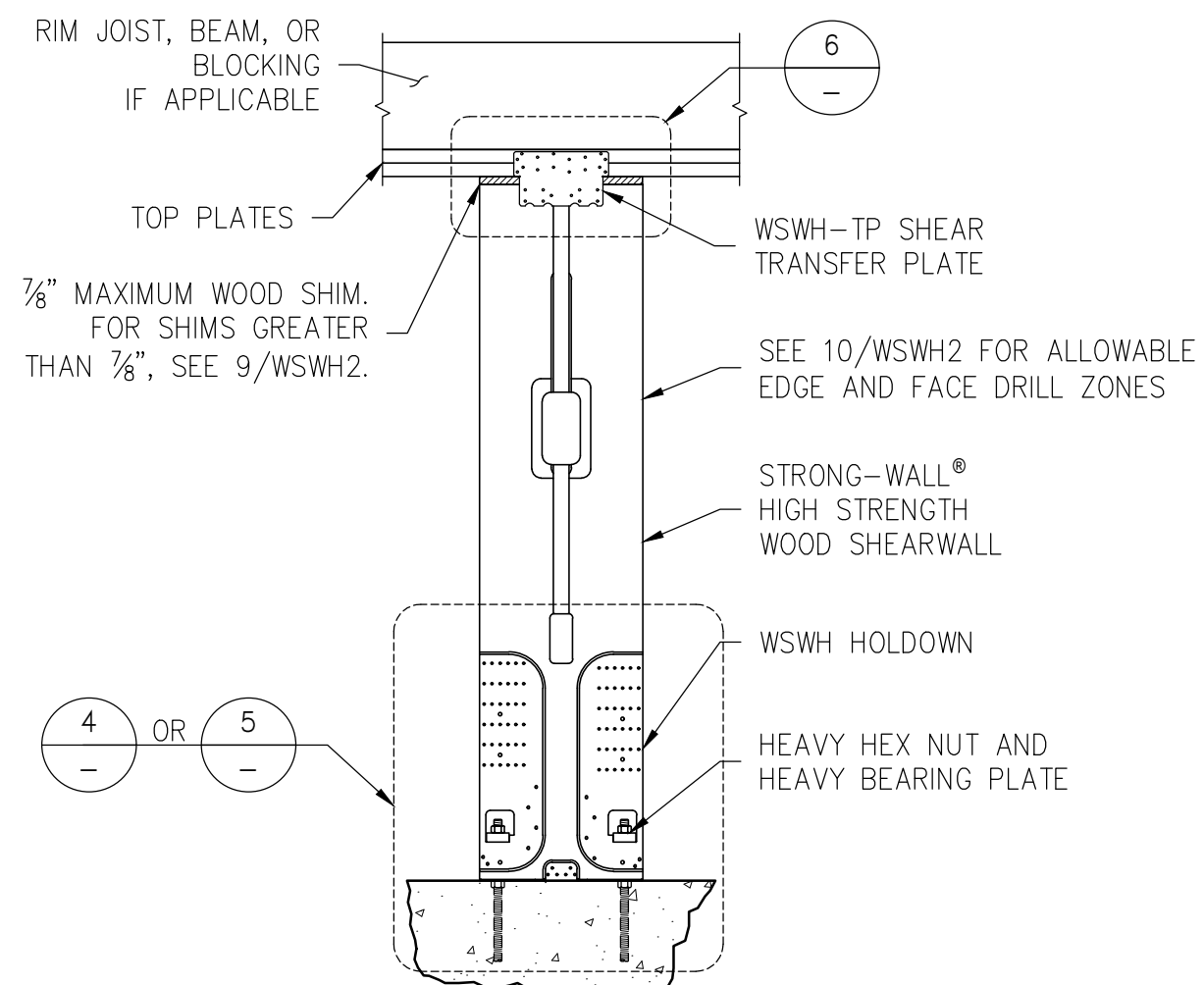


DESIGNER SHALL DESIGN AND DETAIL FOR:

- SHEAR TRANSFER
- OUT-OF-PLANE LOADING EFFECT
- INCREASED OVERTURNING AND DRIFT DUE TO ADDITIONAL HEIGHT

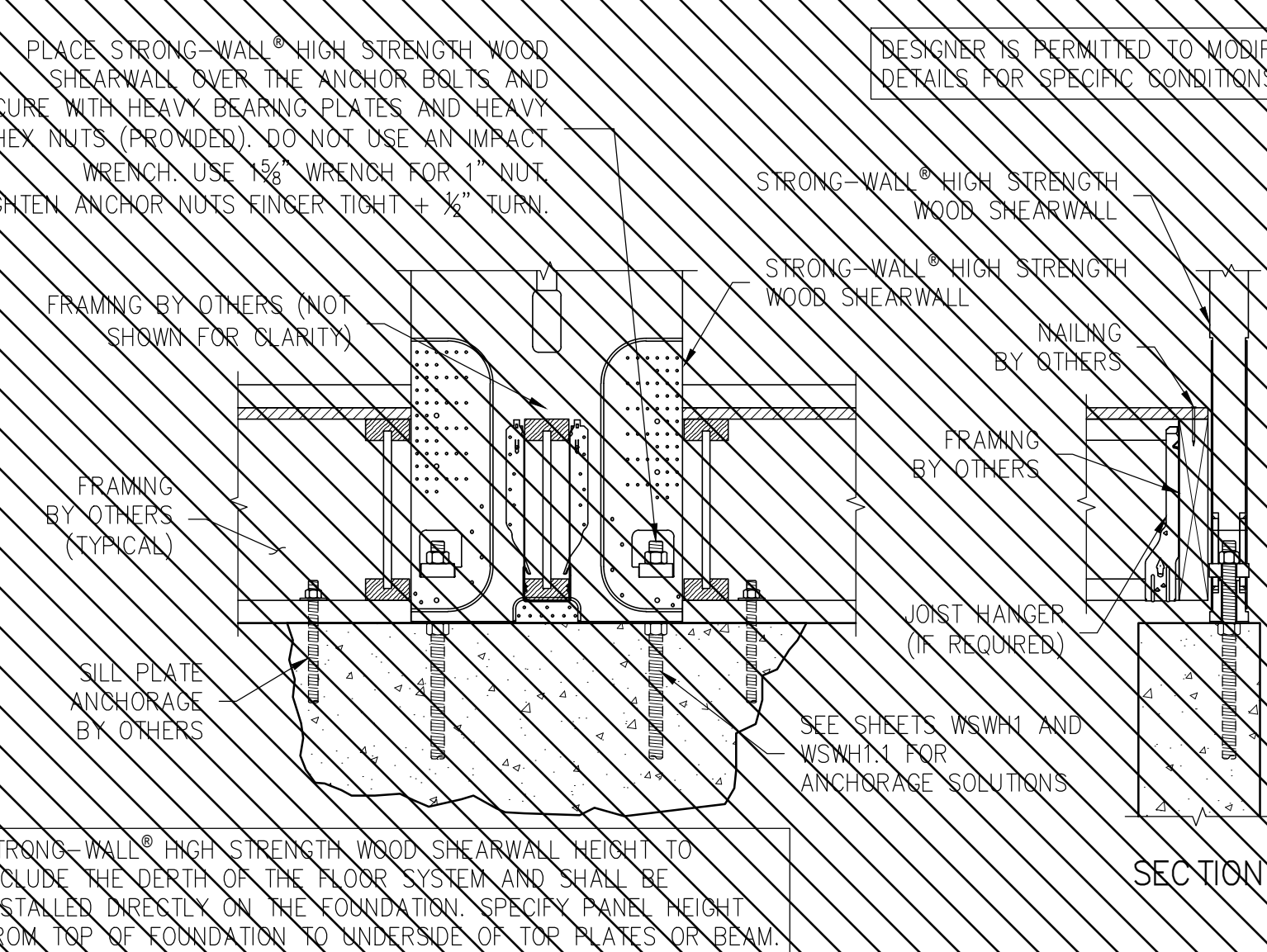
- FOR 8" TO 12" BLOCK DEPTHS:
- ATTACH SIMPSON STRONG-TIE® CS16 STRAPS AT EDGE OF WSWH PANEL (EACH SIDE) USING 10dX1 1/2" NAILS
- SHIM BLOCK HEIGHTS GREATER THAN 8" AND UP TO 10":
- 8 NAILS INTO BLOCK
 - 8 NAILS INTO WSWH PANEL
- SHIM BLOCK HEIGHTS GREATER THAN 10" AND UP TO 12":
- 10 NAILS INTO BLOCK
 - 10 NAILS INTO WSWH PANEL

STRONG-WALL® WSWH MODELS

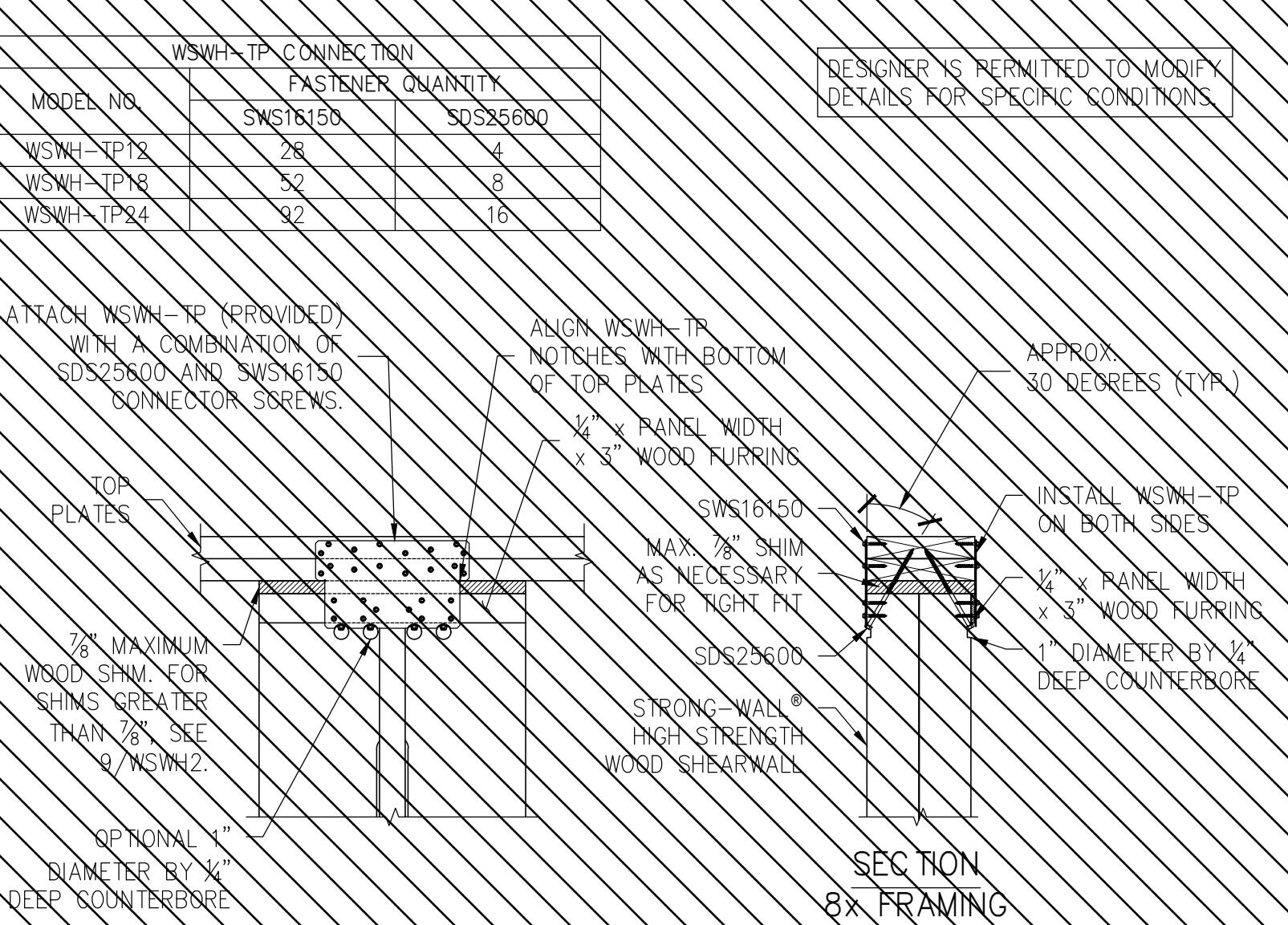


DESIGNER IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS. ENSURE CONCRETE IS LEVEL AND SMOOTH BENEATH PANEL. GRIND OR FILL AS NECESSARY.

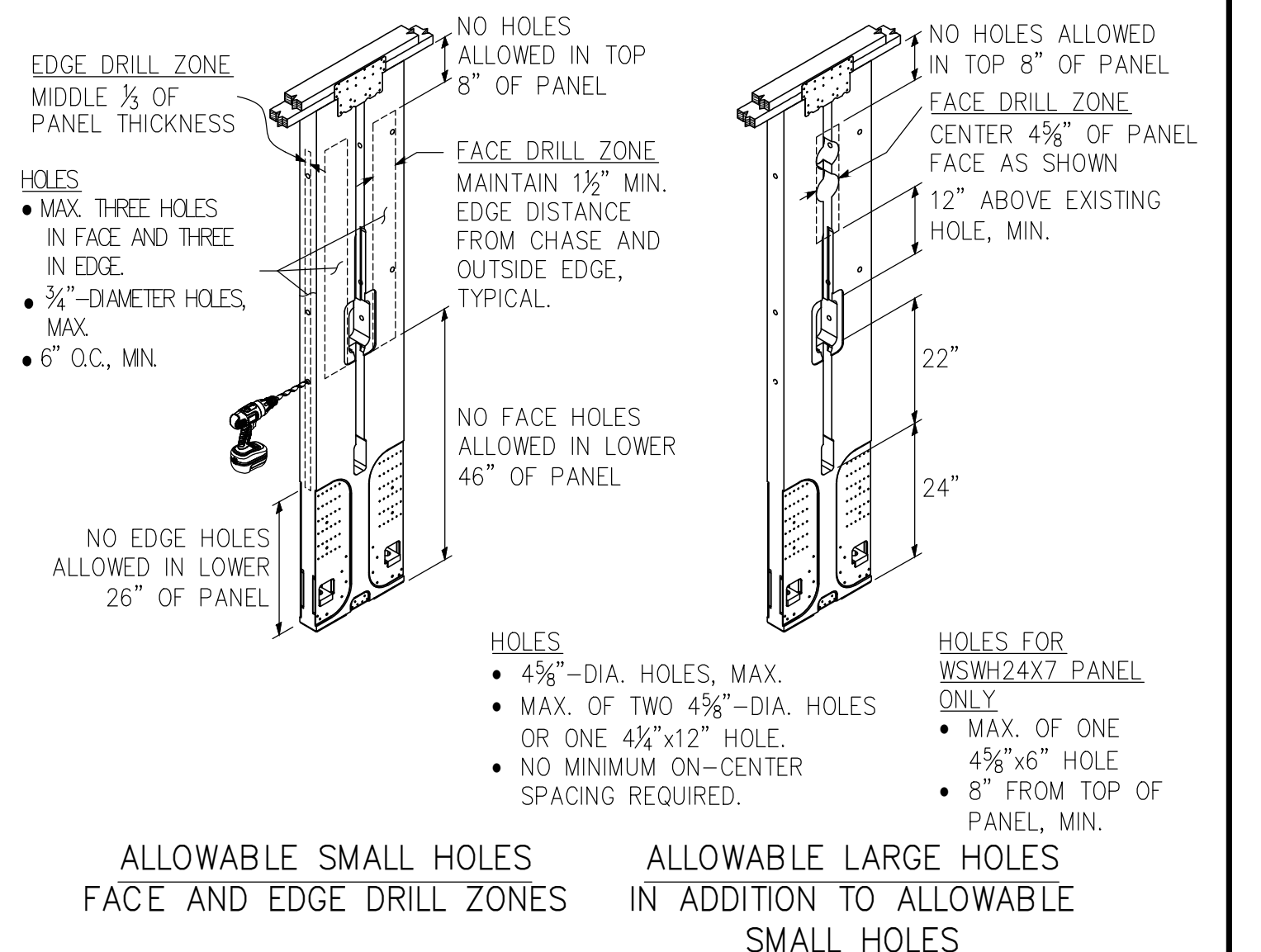
STANDARD INSTALLATION BASE CONNECTION



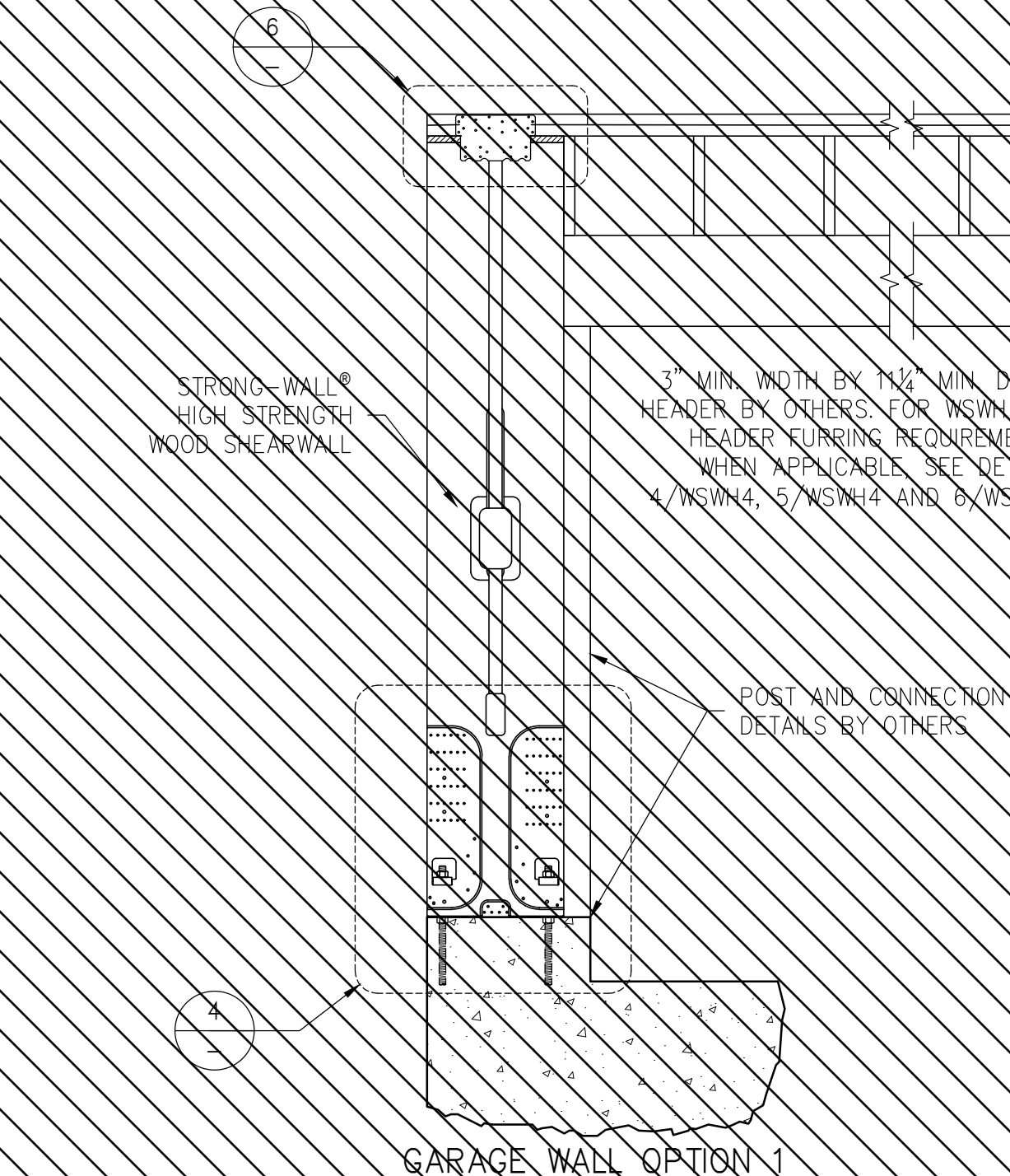
TOP CONNECTION



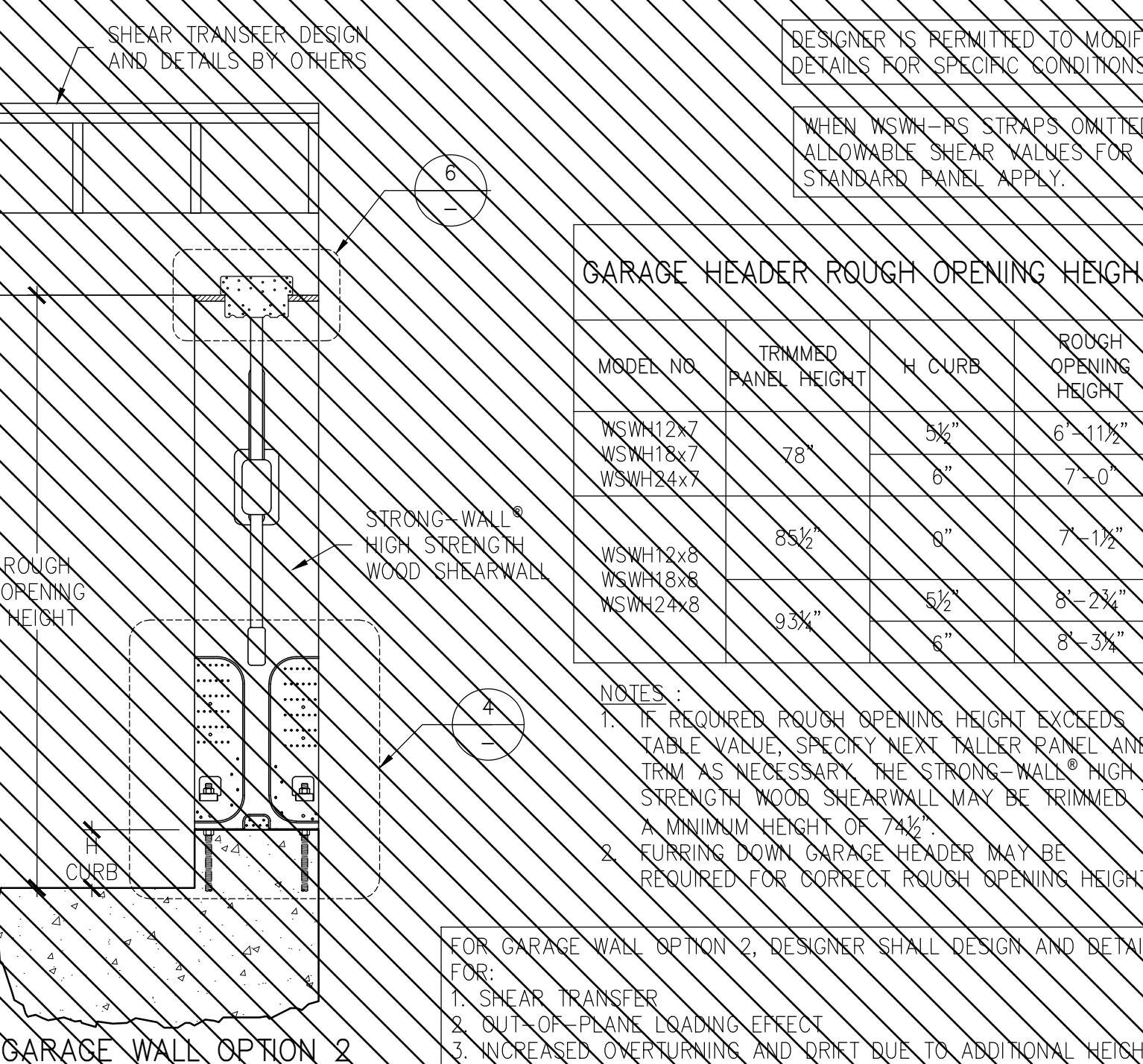
TOP OF WALL HEIGHT ADJUSTMENTS



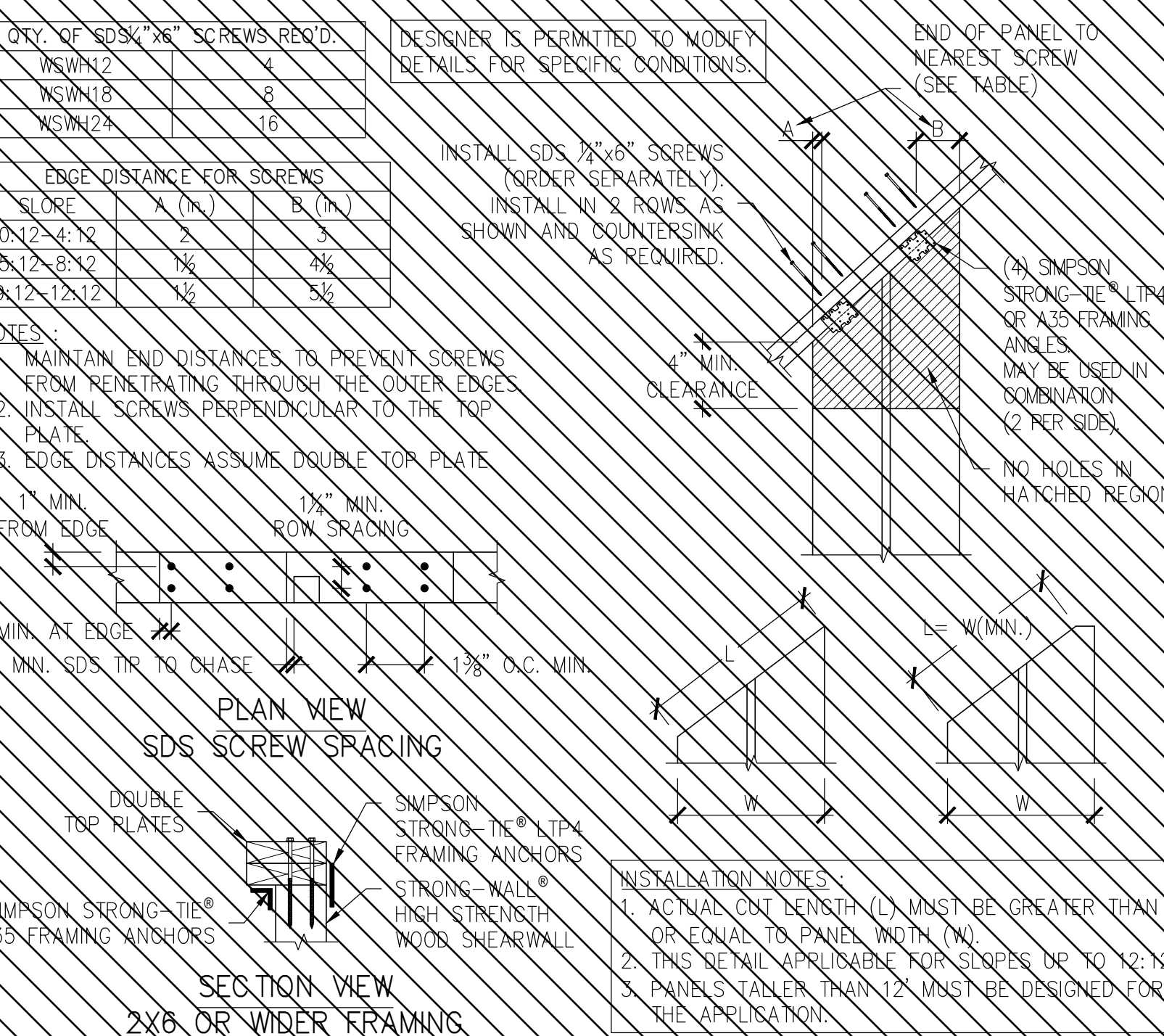
SINGLE STORY WSWH ON CONCRETE



WOOD FLOOR SYSTEM BASE CONNECTION



BACK-TO-BACK TOP CONNECTION



TRIM ZONE AND ALLOWABLE HOLES

- STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL IS MANUFACTURED AND TRADEMARKED BY "SIMPSON STRONG-TIE COMPANY INC." HOME OFFICE: 5956 W. LAS POSITAS BLVD., PLEASANTON, CA 94588 TEL: (800) 999-5099, FAX: (925) 847-1597, "SIMPSON STRONG-TIE COMPANY INC." IS AN ISO 9001-2008 REGISTERED COMPANY.
- USE OF THIS PRODUCT IS SUBJECT TO THE APPROVAL OF THE LOCAL BUILDING DEPARTMENT.
- THIS PRODUCT IS PART OF THE OVERALL LATERAL FORCE RESISTING SYSTEM OF THE STRUCTURE. DESIGN OF THE BUILDING'S LATERAL FORCE RESISTING SYSTEM, INCLUDING THE LOAD PATH TO TRANSFER LATERAL FORCES FROM THE STRUCTURE TO THE GROUND, IS THE RESPONSIBILITY OF THE DESIGNER.
- ENGINEER OF RECORD IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CONDITIONS, ELEVATIONS, ETC. PRIOR TO INSTALLATION OF ANY COMPONENTS FOR THE STRONG-WALL SB SYSTEM. IF ANY DISCREPANCIES ARE FOUND, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER FOR CLARIFICATION PRIOR TO CONSTRUCTION.
- INSTALLATION OF PRODUCT SHALL BE DONE IN CONFORMANCE TO THESE DRAWINGS. THE PERFORMANCE OF MODIFIED PRODUCTS OR ALTERED INSTALLATION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE DESIGNER.
- SIMPSON STRONG-TIE COMPANY INC. RESERVES THE RIGHT TO CHANGE SPECIFICATIONS, DESIGNS, AND MODELS WITHOUT NOTICE OR LIABILITY FOR SUCH CHANGES.
- ALL HARDWARE CALLED OUT IS SIMPSON STRONG-TIE.
- SEE ICC-ES ESR-2652 OR CITY OF LOS ANGELES RR25730 AS APPLICABLE FOR ADDITIONAL INFORMATION.

ALTERNATE WSWH GARAGE FRONT OPTIONS

RAKE WALL

NOTES

REVISIONS	DATE	BY	REVISIONS
0	11-20-2020		FIRST RELEASE - 2019 IBC
1	03-16-2021		2021 IBC REVISIONS

NO.	DATE	BY	REVISIONS
0	11-20-2020		FIRST RELEASE - 2019 IBC
1	03-16-2021		2021 IBC REVISIONS

SIMPSON Strong-Tie, Co. Inc.
 5956 W. Las Positas Blvd.
 Pleasanton, CA 94588
 Tel: (800) 999-5099
 Website: www.strongtie.com

SIMPSON Strong-Tie
 THERE IS NO EQUAL

STRONG-WALL® WSWH
 FRAMING DETAILS
 ENGINEERED DESIGNS

SIMPSON Strong-Tie
 THERE IS NO EQUAL

NAME	DATE	SCALE	CHECKED	SHEET	JOB NO.
	03-16-2021	N.T.S.		WSWH2	
				OF SHEETS	