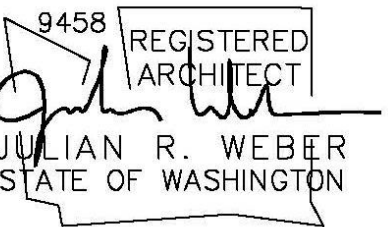




JULIAN WEBER ARCHITECTS, LTD

1257 S King St  
Seattle, WA 98144  
206.953.1305

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COOMBS DEVELOPMENT

4701 SW ADMIRAL WAY, SUITE 385  
SEATTLE, WA 98116  
P 206.420.7672

Coombes Residence

6221 83rd Pl SE  
Mercer Island



MUP #

BP #

Δ	Date	Description
	06.02.2022	Critical Area Submittal
	06.02.2022	BP Submittal

COVERSHEET

Scale As indicated  
Date 04/29/2022

A0.0

Project Number JWA#611

# Coombes Residence

6221 83rd Pl SE  
Mercer Island

## PROJECT INFORMATION

MUP #

BP #

### PROJECT DESCRIPTION:

DEMO EXISTING SFR. CONSTRUCT NEW SFR WITH ATTACHED 2-CAR GARAGE AND 1 OPEN PARKING STALL

### LEGAL DESCRIPTION:

LOT 22, BLOCK 1, MERCER VISTA, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 67 OF PLATS, PAGE 1, RECORDS OF KING COUNTY, WASHINGTON.

### TAX #:

545420-0220

## PROJECT TEAM

### OWNER/ APPLICANT :

COOMBS DEVELOPMENT  
4701 SW ADMIRAL WAY, SUITE 385  
SEATTLE, WA 98116  
P 206.420.7672

### STRUCTURAL ENGINEER :

MALSAM TSANG STRUCTURAL ENGINEERING  
122 S JACKSON ST #210  
SEATTLE, WA 98104  
P 206.789.6038

### ARCHITECT/PROJECT CONTACT:

JULIAN WEBER ARCHITECTS, LTD  
1257 S KING ST  
SEATTLE, WA 98144  
P 206.953.1305

### LANDSCAPE ARCHITECT :

DEVIN PETERSON  
ROOT OF DESIGN, LLC  
7104 265TH ST NW, SUITE #218  
STANWOOD, WA 98292  
P 206.491.9545

### SURVEYOR :

TERRANE  
10801 MAIN STREET, SUITE 102  
BELLEVUE, WA 98004  
P 425.458.4488

### CIVIL ENGINEER :

HAN PHAN  
5130 SOUTH 146TH LANE  
SEACAC, WA 98188  
P 206.229.6422  
PBG

## PROJECT DATA

ZONE: R-9.6

LOT AREA: 10,248 SF

FLOOR AREA RATIO:

SEE SHEET A0.2 FOR DIAGRAM

GFA TABLE			
FLOOR AREA LABEL	GFA	CHARGEABLE FLOOR AREA	EXEMPT PER
Basement	314 SF	314.36 SF	
Basement	808 SF	0.00 SF	MICC Title 19 -Appendix B
covered deck	333 SF	332.69 SF	
Garage	619 SF	619.44 SF	
Level 1	1,371 SF	1,371.30 SF	
Level 2	1,439 SF	1,438.74 SF	
stairs	107 SF	0.00 SF	MICC 19.02.020.D.2.c
TOTAL	4,992 SF	4,076.52 SF	

### SETBACKS PER MIIC 19.02.020.C:

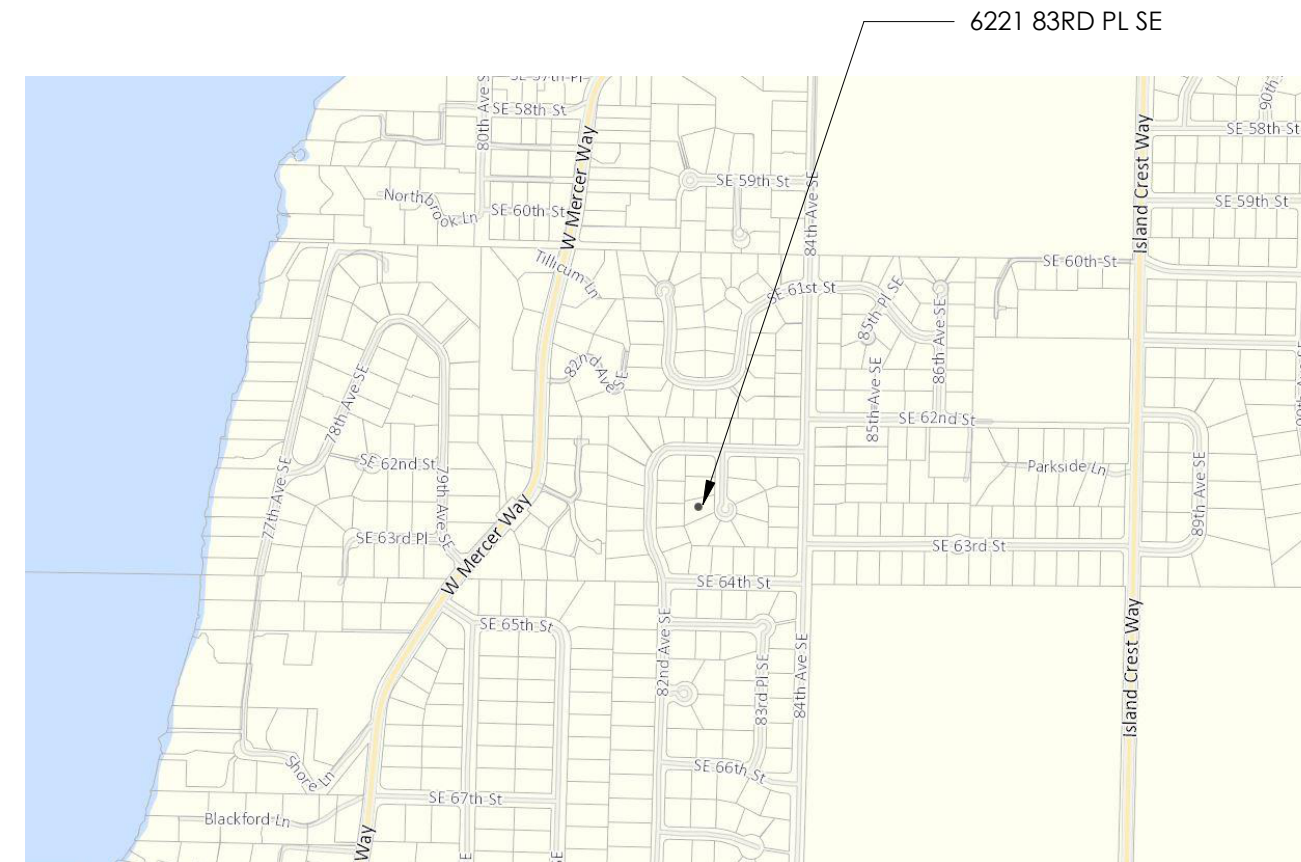
	REQUIRED	ACTUAL
FRONT	20'-0"	22'-7 1/2"
SIDE, NORTH	10'-0"	11'-0"
SIDE, SOUTH (>25' HEIGHT)	10'-0"	10'-8 1/2"
SIDE, SOUTH (<15' HEIGHT)	5'-0"	7'-6"
REAR	25'-0"	36'-10 1/4"

### STRUCTURE HEIGHT LIMIT PER PER MIIC 19.02.020.E:

30' MAXIMUM HEIGHT  
(SEE SHEET A1.2 FOR HEIGHT CALCULATION)

### LOT COVERAGE PER MIIC 19.02.020.F:

EXISTING = 3,364 SF  
PROPOSED = 3,995.21 SF  
(SEE SHEET A1.2 FOR CALCUALTION)



## VICINITY MAP

SCALE: N.T.S.

## ARCHITECTURAL NOTES:

(THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE PLANS)

- ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE INTERNATIONAL RESIDENTIAL CODE (2018 EDITION) WITH MERCER ISLAND AMENDMENTS.
- CONTRACTOR: SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND MUST BE VERIFIED.
- CONTRACTOR: SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.
- CONTRACTOR: SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE WORK.
- DRAWINGS: INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT/DESIGNER.
- ALL WOOD PLATES: IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE-TREATED WITH AN APPROVED PRESERVATIVE. PROVIDE 2 LAYERS OF ASPHALT IMPREGNATED BUILDING PAPER BETWEEN UNTREATED LEDGERS, BLOCKING, ETC., AND CONCRETE OR MASONRY.
- PRESSURE TREATED LUMBER: ALL FASTENERS AND CONNECTORS THAT ARE IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED WITH A MINIMUM COATING OF G90 (.90oz/sf) PER ASTM A123 AND/OR ASTM A153, 304 OR 316 STAINLESS STEEL MAY BE SUBSTITUTED IN LIEU OF GALVANIZED PRODUCTS. NO STAINLESS STEEL PRODUCTS SHALL COME IN CONTACT WITH GALVANIZED PRODUCTS.
- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO WASHINGTON STATE ENERGY CODE (2018 EDITION).

- \* ALL INTERIOR WALLS TO BE 2x4 @ 24" O.C. (U.N.O.)
- \* ALL EXTERIOR WALLS 2x6 PER STRUCTURAL
- \* HEADERS PER STRUCTURAL
- \* WINDOW SIZES ARE NOMINAL ROUGH OPENING, WIDTH AND HEIGHT.
- \* PROVIDE FIREBLOCKING AT ALL PLUMBING OPENINGS.
- \* PROVIDE SOLID BLOCKING OVER SUPPORTS.
- \* SEISMIC ANCHORAGE AND STRAPPING OF WATER HEATERS SHALL BE IN ACCORDANCE WITH SECTION 507.2 OF THE UNIFORM PLUMBING CODE.
- \* PROVIDE OUTDOOR COMBUSTION AIR FOR FURNACE AND WATER HEATER PER IRC G2407.6.

NO SEDIMENT SHALL BE TRACKED INTO THE STREET OR ONTO PAVED SURFACES. SEDIMENT SHALL BE REMOVED FROM TRUCKS AND EQUIPMENT PRIOR TO LEAVING THE SITE. IN THE EVENT OF FAILURE OF EROSION CONTROL SYSTEM RESULTING IN SEDIMENT BEING TRACKED ONTO PAVED SURFACES, THE CONTRACTOR SHALL IMMEDIATELY IMPLEMENT MEASURES TO CORRECT THE SITUATION, AND STREET SWEEPING SHALL BE EMPLOYED ON AN EMERGENCY BASIS. IF STREET SWEEPING VEHICLES ARE UTILIZED, THEY SHALL BE OF THE TYPE THAT ACTUALLY REMOVES SEDIMENT FROM THE PAVEMENT.



## LIST OF DRAWINGS

GENERAL	
A0.0	COVERSHEET
A0.1	SITE PLAN
A0.2	FAR DIAGRAMS
SURVEY	
V1	TOPOGRAPHIC SURVEY
CIVIL	
C1	TREE PROTECTION PLAN TSEC-PLAN
C2	TREE PROTECTION PLAN TSEC-PLAN
C3	TESC DETAILS
C4	STORMWATER/UTILITY PLAN AND DETAILS
C5	STORMWATER/UTILITY PLAN AND DETAILS
C6	DETENTION PIPE SYSTEM DETAILS
C7	DETAILS
LANDSCAPE	
L1	REPLACEMENT TREE PLAN
L2	LANDSCAPE DETAILS & NOTES
ARCHITECTURAL	
A1.1	DEMO SITE PLAN
A1.2	SITE DIAGRAMS
A1.3	CRITICAL AREAS
A2.1	FLOOR PLANS
A2.2	FLOOR PLANS
A2.3	FLOOR PLANS
A2.4	FLOOR PLANS
A3.1	ELEVATIONS
A3.2	ELEVATIONS
A4.0	GLAZING SCHEDULE & WSEC NOTES
A4.1	ASSEMBLIES
A4.2	BUILDING SECTION
A4.3	BUILDING SECTION
A6.1	DETAILS
A6.3	WINDOW FLASHING
STRUCTURAL	
S 1.0	GENERAL STRUCTURAL NOTES
S 2.1	FOUNDATION PLAN
S 2.2	FIRST FLOOR FRAMING PLAN
S 2.3	SECOND FLOOR FRAMING PLAN
S 2.4	ROOF FRAMING PLAN
S 3.0	TYPICAL CONCRETE DETAILS
S 3.1	CONCRETE DETAILS
S 3.2	CONCRETE DETAILS
S 3.3	TYPICAL WOOD FRAMING DETAILS
S 4.1	WOOD FRAMING DETAILS
S 4.2	WOOD FRAMING DETAILS
S 5.0	STEEL DETAILS



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9458 REGISTERED ARCHITECT  
 JULIAN R. WEBER  
 STATE OF WASHINGTON

**COOMBS DEVELOPMENT**  
 4701 SW ADMIRAL WAY, SUITE 385  
 SEATTLE, WA 98116  
 P 206.420.7672

**Coombes Residence**  
 6221 83rd Pl SE  
 Mercer Island

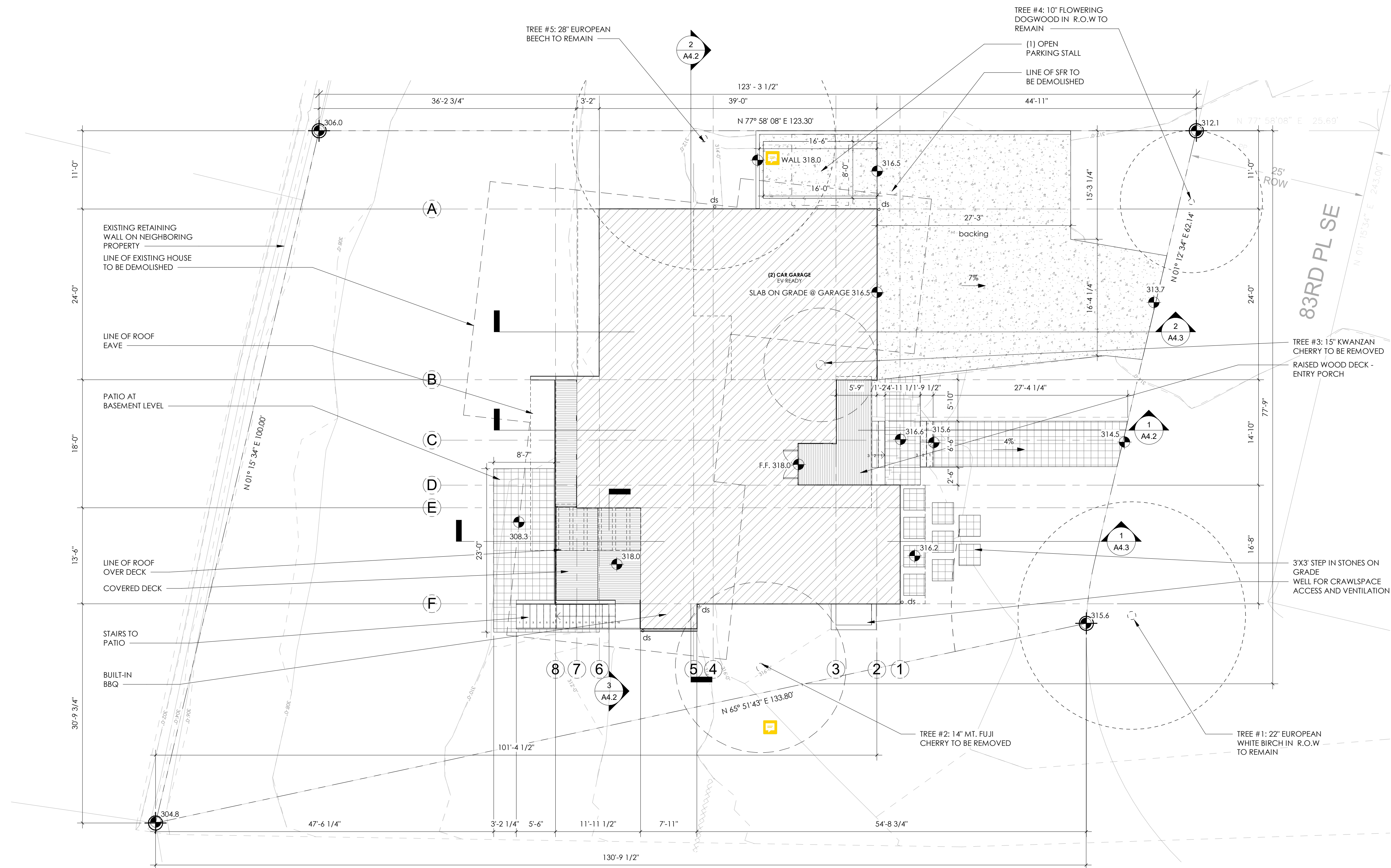
MUP #	BP #	Date	Description
		06.02.2022	Critical Area Submittal
		06.02.2022	BP Submittal

**SITE PLAN**

Scale 1/8" = 1'-0"  
 Date 04/29/2022

**A0.1**

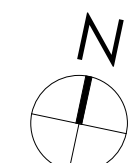
Project Number **JWA#611**



**1 Site Plan**

SCALE: 1/8" = 1'-0"

\*PLEASE REFERENCE 1/A1.3 FOR AVERAGE BUILDING CALCULATIONS.  
 \*\*PLEASE REFERENCE 1/A0.2 FOR BASEMENT FLOOR AREA CALCULATIONS.





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Δ	Date
	06.02.2022
	BP Submittal

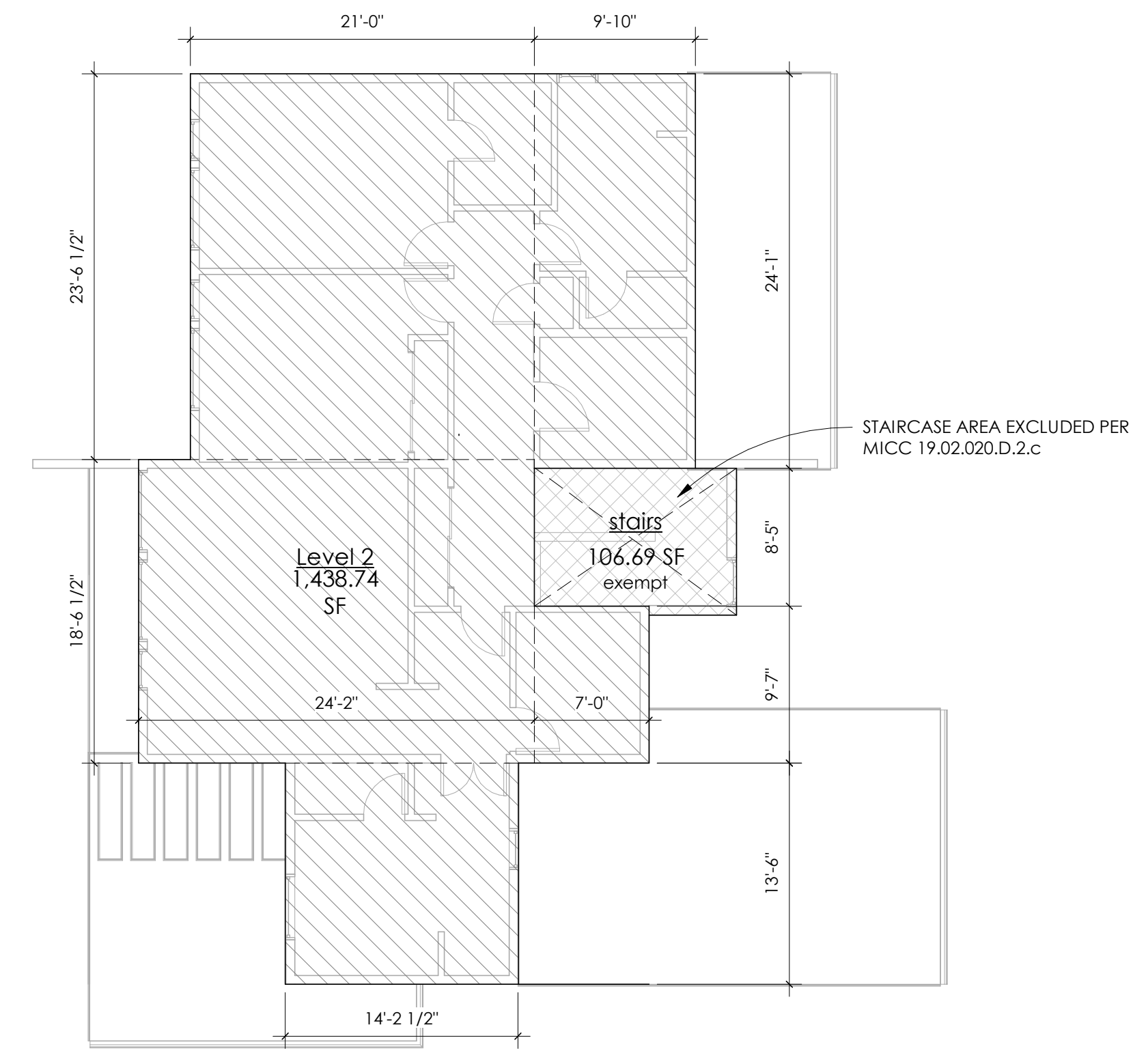
**FAR DIAGRAMS**

Scale 1/8" = 1'-0"  
 Date 04/29/2022

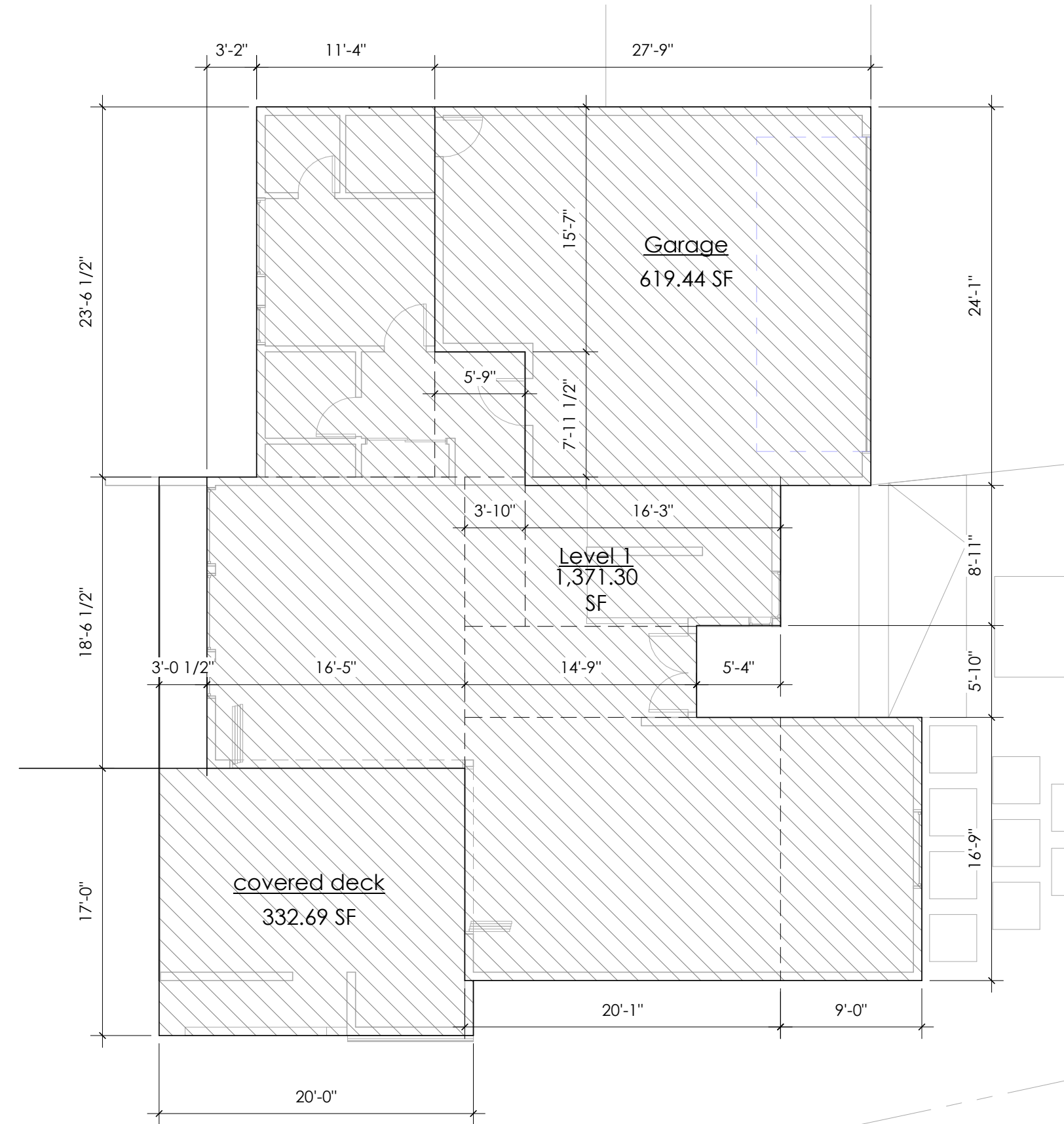
**A0.2**

Project Number **JWA#611**

6/22/2022 11:22:45 AM



**3 Level 2**  
 SCALE: 1/8" = 1'-0"

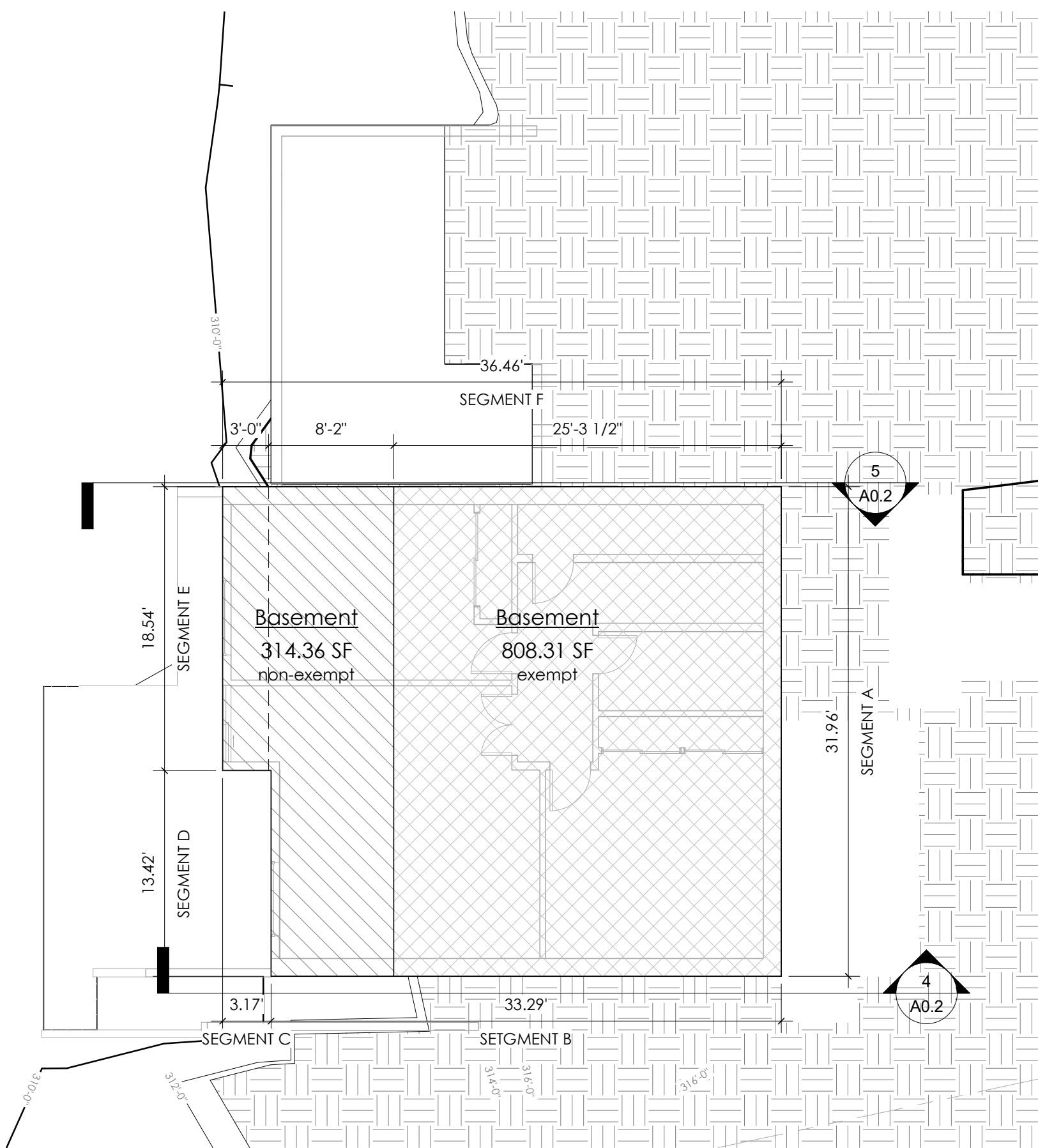


**2 Level 1**  
 SCALE: 1/8" = 1'-0"

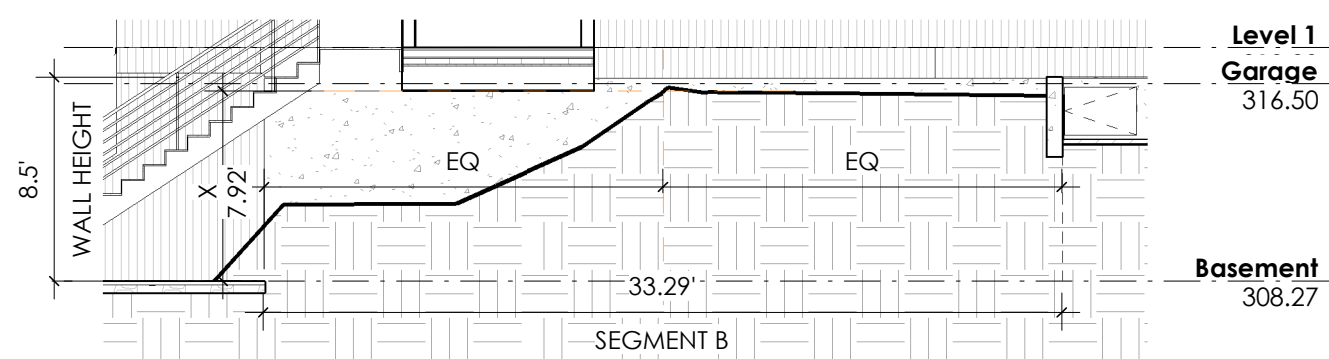
FAR CALCULATION			
LOT AREA	Base F.A.R.	ALLOWED	PROPOSED
10,284.00 SF	0.4	4,113.60 SF	4,077 SF

TOTAL EXISTING GFA = 4,477 SF REMOVED

GFA TABLE			
FLOOR AREA LABEL	GFA	CHARGEABLE FLOOR AREA	EXEMPT PER
Basement	314 SF	314.36 SF	
Basement	808 SF	0.00 SF	MICC Title 19 - Appendix B
covered deck	333 SF	332.69 SF	
Garage	619 SF	619.44 SF	
Level 1	1,371 SF	1,371.30 SF	
Level 2	1,439 SF	1,438.74 SF	
stairs	107 SF	0.00 SF	MICC 19.02.020.D.2.c
TOTAL	4,992 SF	4,076.52 SF	



**1 Basement**  
 SCALE: 1/8" = 1'-0"



MICC TITLE 19 - UNIFIED LAND DEVELOPMENT APPENDICES  
 APPENDIX B - BASEMENT FLOOR AREA CALCULATION

**STEP 2 - WALL SEGMENT COVERAGE**

- A = 100%
- B = 7.92/8.5 x 100 = 93.18 %
- C = 0 %
- D = 0 %
- E = 0 %
- F = 8.4/8.5 x 100 = 98.82 %

**STEP 3 - (WALL LENGTH x %COVERAGE)**

- A = 31.96 x 100% = 3,196
- B = 33.27 x 93.18 % = 3,101.96
- C = 3.17 x 0 % = 0
- D = 13.42 x 0 % = 0
- E = 18.54 x 0 % = 0
- F = 36.46 x 98.82 % = 3,602.98

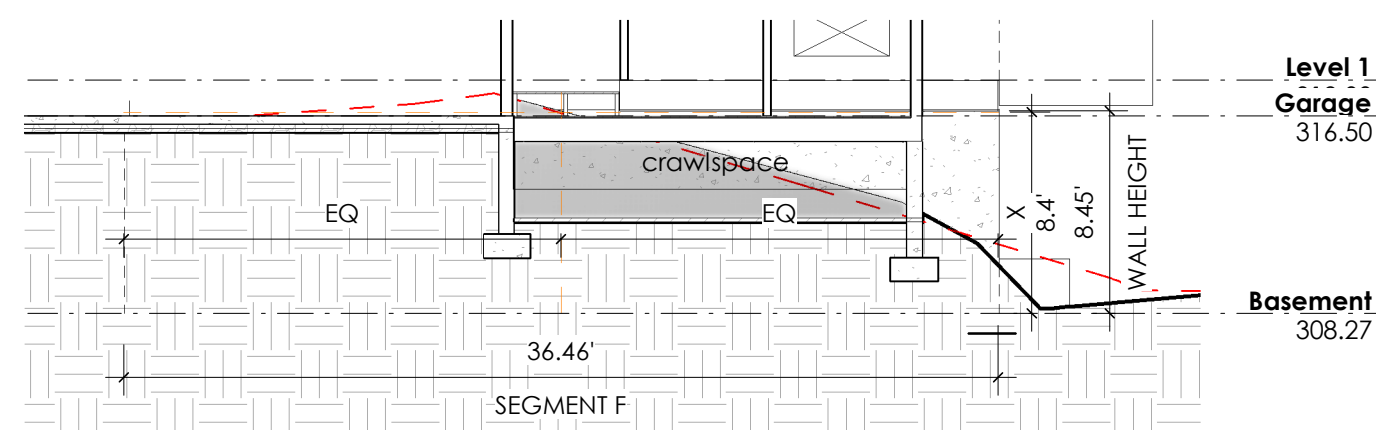
TOTAL WALL LENGTH = 136.84'  
 TOTAL SUM = 9,900.94/100 = 99.01

**STEP 4**

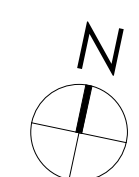
99.01/136.84 = 0.72 x 100 = **72% AREA EXCLUDED**

BASEMENT TOTAL GROSS FLOOR AREA = 1,122.66 SF  
 1,122.66 x 0.72 = **808.31 SF AREA EXCLUDED**

**4 SEGMENT B**  
 SCALE: 1/8" = 1'-0"



**5 SEGMENT F**  
 SCALE: 1/8" = 1'-0"



# TOPOGRAPHIC & BOUNDARY SURVEY

## LEGAL DESCRIPTION

LOT 22, BLOCK 1, MERCER VISTA, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 67 OF PLATS, PAGE 1, RECORDS OF KING COUNTY, WASHINGTON.

## BASIS OF BEARINGS

N 03°26'44" W BETWEEN SURVEY MONUMENTS FOUND AND HELD AS SHOWN HEREON, AS CALCULATED PER R1.

## REFERENCES

R1 MERCER VISTA, RECORDED IN VOL. 67 OF PLATS, PAGE 1, RECORDS OF KING COUNTY, WASHINGTON.

## VERTICAL DATUM

NAVD(88) PER CITY OF MERCER ISLAND BENCHMARK #4231 "SAC MON 83RD AVE SE, OPP HSE #6234" ELEV=314.90'

SITE BM: SET NAIL W/SHINER IN ASPHALT NEAR S COR OF SITE DRIVE APRON, ELEV=314.19'

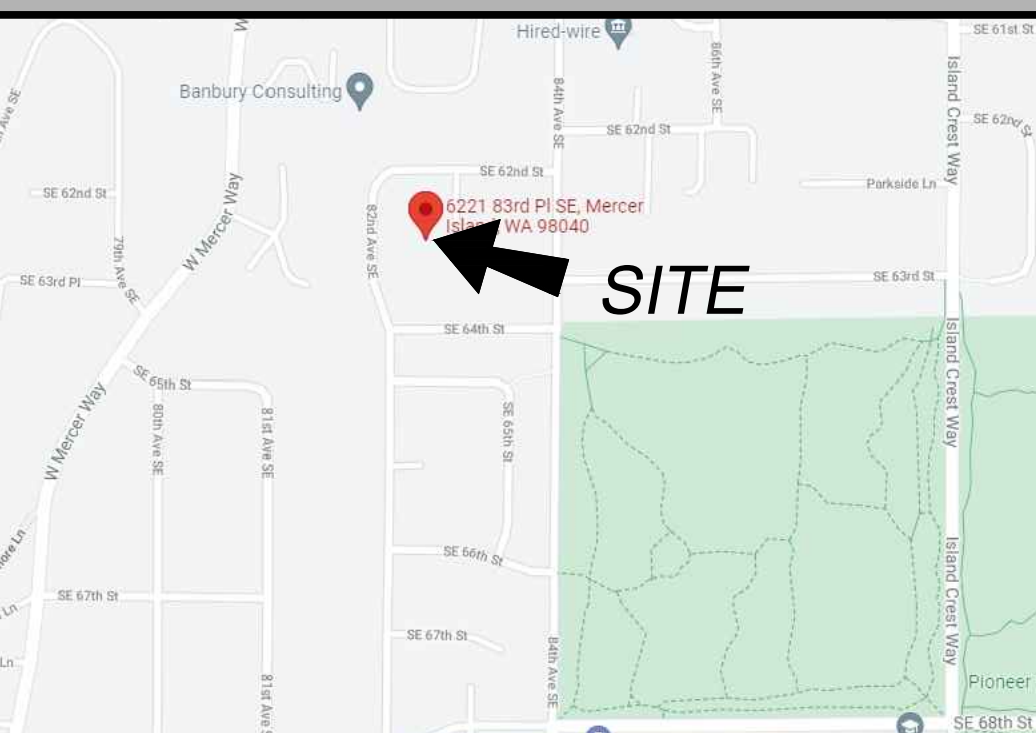
## SURVEYOR'S NOTES

1. THE TOPOGRAPHIC SURVEY SHOWN HEREON WAS PERFORMED IN NOVEMBER OF 2021. 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. 545420-0220
5. SUBJECT PROPERTY AREA PER THIS SURVEY IS 10,284 S.F. (0.24 ACRES)
6. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT. EASEMENTS AND OTHER ENCUMBRANCES MAY EXIST THAT ARE NOT SHOWN HEREON.
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.

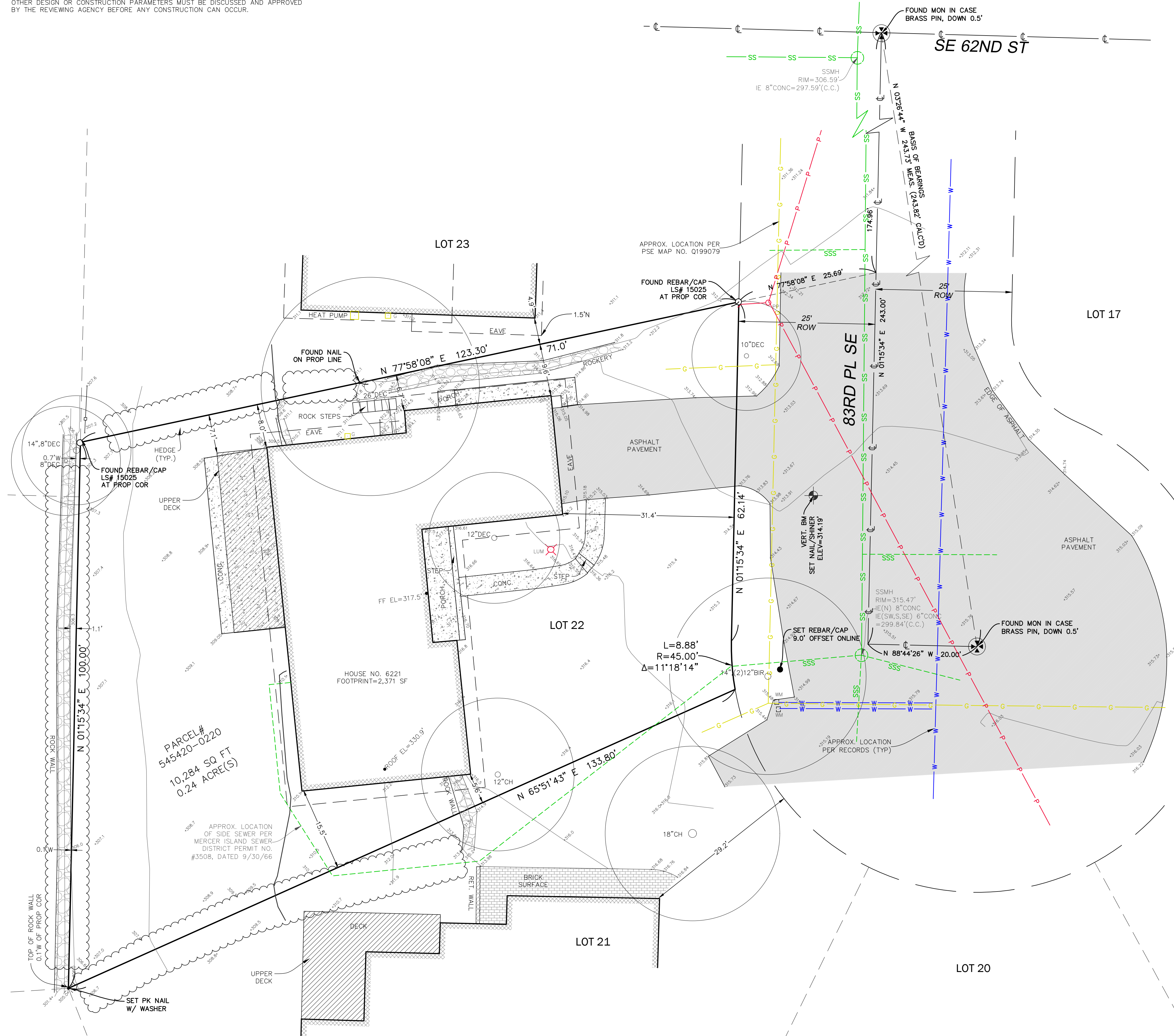
## LEGEND

	BENCHMARK		SEWER LINE
	ASPHALT SURFACE		SEWER MANHOLE
	BRICK SURFACE		TREE (AS NOTED)
	BUILDING		WATER LINE
	CENTERLINE ROW		WATER METER
	CONCRETE SURFACE		BIRCH
	RETAINING WALL		CENTER CHANNEL
	DECK		CALCULATED
	GAS LINE		CHERRY
	GAS METER		CONCRETE
	GUY ANCHOR		CORNER
	HAND RAIL		DEODIOUS
	HEDGE FOLIAGE LINE		ELEVATION
	LUMINAIRE		FINISH FLOOR
	MONUMENT IN CASE (FOUND)		LAND SURVEYOR NUMBER
	NAIL AS NOTED		MEASURED
	POWER POLE		MONUMENT
	POWER POLE		PROPERTY
	REBAR AS NOTED (FOUND)		RECORD DATA
	REBAR & CAP (SET)		SANITARY SEWER MANHOLE
	ROCKERY		SANITARY SIDE SEWER

## VICINITY MAP



**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.



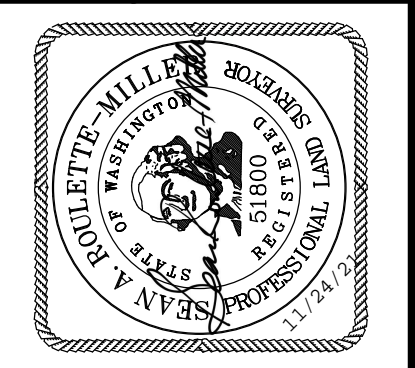
( IN FEET )  
1 INCH = 10 FT.

INDEXING INFORMATION

SE 1/4	SE 1/4
SECTION: 24	
TOWNSHIP: 24N	
RANGE: 04E, W.M.	
COUNTY: KING	

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

TOPOGRAPHIC & BOUNDARY SURVEY  
PARCEL NO. 545420-0220  
COOMBS DEVELOPMENT - 83RD PL SE  
6221 83rd Pl SE  
MERCER ISLAND, WA 98040

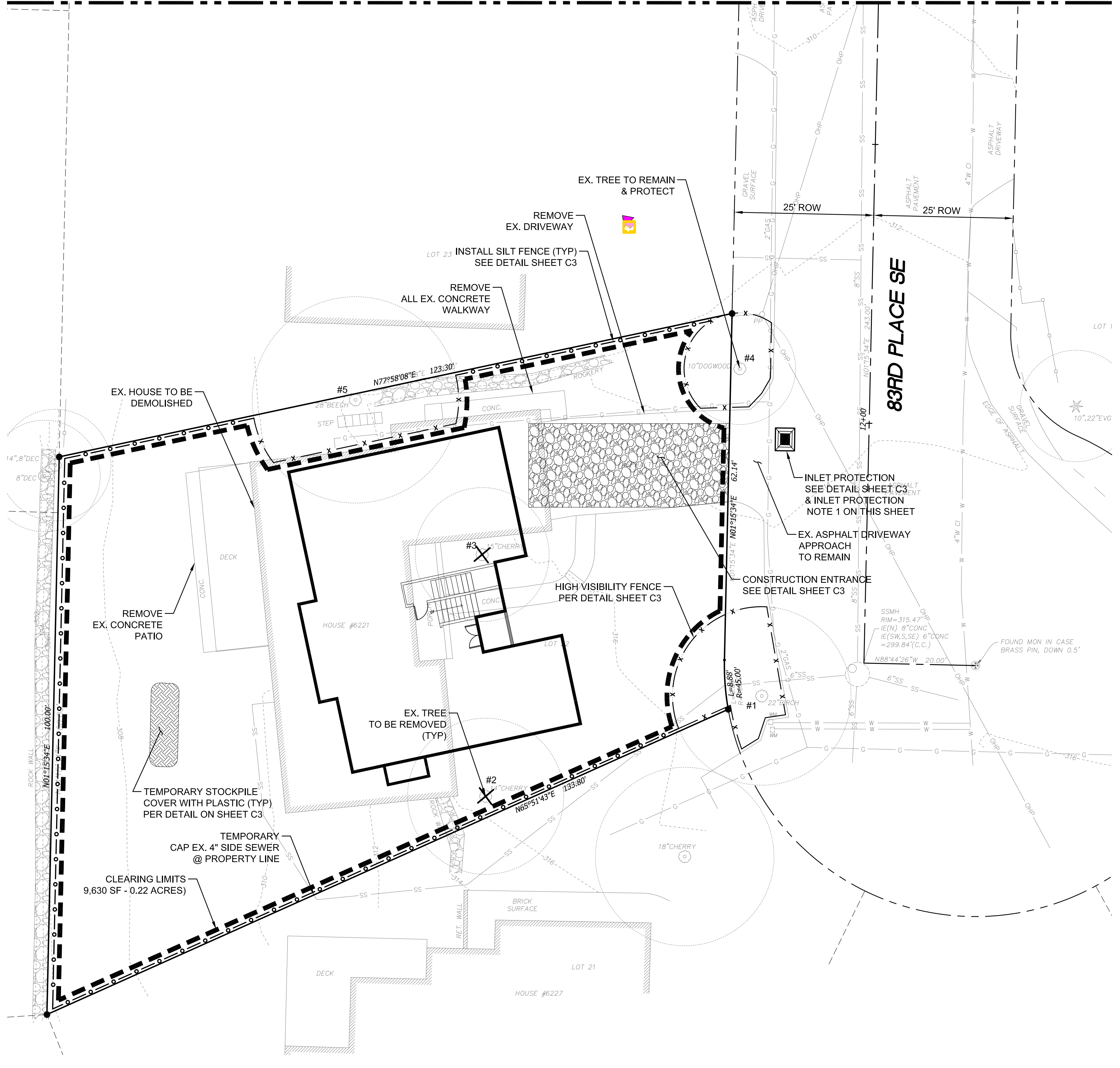
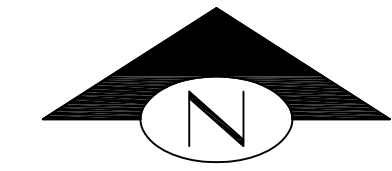


# TERRANE

JOB NUMBER:	212419
DATE:	11/22/21
DRAFTED BY:	TLR
CHECKED BY:	SRM/RLS
SCALE:	1" = 10'
REVISION HISTORY	
SHEET NUMBER	
1 OF 1	

Jul 07, 2022 12:10pm Han Pham L:\Working\222465 - 6221 83rd Place SE (COOMBES Development)\CADD\Drawings\222465-PS-C1.dwg Layout Name: C1

MATCHLINE - SEE SHEET C2



**TREE INVENTORY:**

#1 - 14"	EUROPEAN WHITE BIRCH (BETULA PENDULA)	REGULATED-YES
#2 - 14"	MT. FUJI CHERRY (PRUNUS SERRULATA 'SHIROTAE')	REGULATED-YES
#3 - 15"	KWANZAN CHERRY (PRUNUS SERRULATA 'KWANZAN')	REGULATED-YES
#4 - 7"	FLOWERING DOGWOOD (CORNUS FLORIDA)	REGULATED-YES
#5 - 28"	EUROPEAN BEECH (FAGUS SYLVATICA L.)	REGULATED-YES

**STABILIZE SOILS:**

TEMPORARY COVER MEASURES SHALL BE PROVIDED WHEN NECESSARY TO PROTECT DISTURBED AREAS. THE INTENT OF THESE MEASURES IS TO PREVENT EROSION BY HAVING AS MUCH AREA AS POSSIBLE COVERED DURING ANY PERIOD OF PRECIPITATION. TOPSOIL LAYERS SHALL BE RETAINED AND PROTECTED TO THE MAXIMUM EXTENT FEASIBLE. ANY TOPSOIL THAT IS STOCKPILED ONSITE SHALL BE COVERED TO PREVENT EROSION AND SATURATION, AND SHALL BE REUSED IN LANDSCAPED AREAS UPON COMPLETION OF THE GROUND DISTURBING ACTIVITIES. TEMPORARY COVER SHALL BE INSTALLED IF AN AREA IS TO REMAIN UNWORKED FOR MORE THAN 7 DAYS DURING THE DRY SEASON (MAY 1 TO SEPTEMBER 30) OR FOR MORE THAN TWO CONSECUTIVE WORKING DAYS DURING THE WET SEASON (OCTOBER 1 TO APRIL 30). COVER METHODS INCLUDE THE USE OF SURFACE ROUGHENING, MULCH, EROSION CONTROL NETS AND BLANKETS, PLASTIC COVERING, SEEDING, AND SODDING. MULCH AND PLASTIC SHEETING ARE PRIMARILY INTENDED TO PROTECT DISTURBED AREAS FOR A SHORT PERIOD OF TIME, TYPICALLY DAYS TO A FEW MONTHS. SEEDING AND SODDING ARE MEASURES FOR AREAS THAT ARE TO REMAIN UNWORKED FOR MONTHS. EROSION NETS AND BLANKETS ARE TO BE USED IN CONJUNCTION WITH SEEDING STEEP SLOPES

**GENERAL NOTE:**

1. LAND CLEARING, GRADING, FILLING, AND FOUNDATION WORK ARE NOT PERMITTED BETWEEN OCTOBER 1ST AND APRIL 1ST. ANY WORK THAT IS PROPOSED DURING THE WET SEASON MUST SUBMIT A SEASONAL DEVELOPMENT LIMITATION WAIVER FOR APPROVAL BY THE BUILDING OFFICIAL

**PROJECT ENGINEER'S CERTIFICATION:**

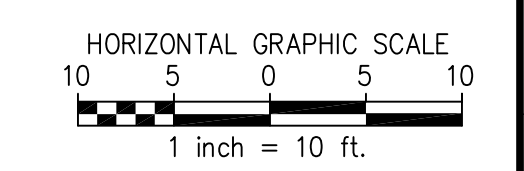
I HEREBY STATE THAT THIS CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN FOR JABOODA HOMES RESIDENCE HAS BEEN PREPARED BY ME OR UNDER MY SUPERVISION AND MEETS THE STANDARD OF CARE AND EXPERTISE WHICH IS USUAL AND CUSTOMARY IN THIS COMMUNITY OF PROFESSIONAL ENGINEERS. I UNDERSTAND THAT THE CITY OF MERCER ISLAND DOES NOT AND WILL NOT ASSUME LIABILITY FOR THE SUFFICIENCY, SUITABILITY, OR PERFORMANCE OF CONSTRUCTION SWPPP BMPs PREPARED BY ME.

**INLET PROTECTION NOTE:**

1. CONTRACTOR TO INSTALL INLET PROTECTION ON ALL CATCH BASINS DOWNSTREAM WITHIN 50'

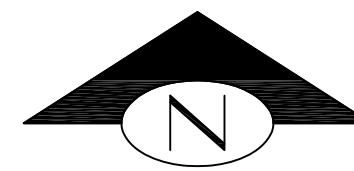
**LEGEND**

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- RIGHT OF WAY LINE
- RIGHT OF WAY CENTERLINE
- PROPOSED STRUCTURE



REFERENCE SHEET NO. 	SHEET 1 OF 7 SHEETS
COOMBES DEVELOPMENT 6221 83RD PLACE SE MERCER ISLAND, WA 98040 <b>TREE PROTECTION PLAN</b> <b>TESC PLAN - 1</b>	
Land Development and Civil Engineering Consultants 5130 South 166th Lane Seattle, WA 98188 T (206) 229-6422	
JOB NO. <b>R22465</b>	ISSUE DATE 7-05-2022
DESIGNED BY: L. PHAN	CHECKED BY: H.H. PHAN
DRAWN BY: L. PHAN	PROJ. MNGR: H.H. PHAN
NO.    DATE    REVISION DESCRIPTION	

Jul 07, 2022 - 12:56pm Han Phan L:\Working\R22465 - 6221 83rd Place SE (COOMBES Development)\CADD\Drawings\R22465-PS-C2.dwg Layout Name: C2

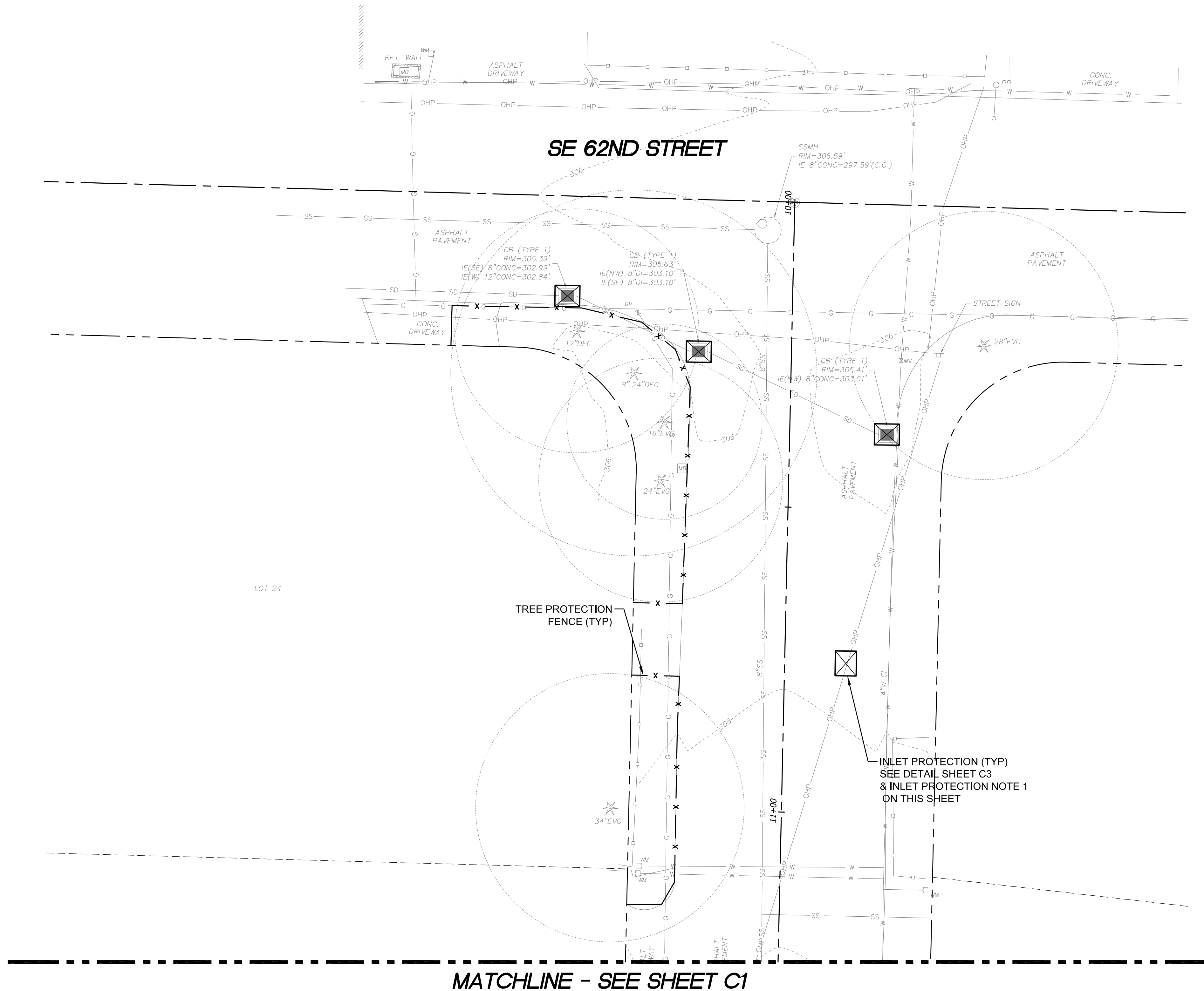


**INLET PROTECTION NOTE:**

1. CONTRACTOR TO INSTALL INLET PROTECTION ON ALL CATCH BASINS DOWNSTREAM WITHIN 50'

**LEGEND**

- PROPERTY LINE
- - - - - ADJACENT PROPERTY LINE
- RIGHT OF WAY LINE
- - - - - RIGHT OF WAY CENTERLINE



REFERENCE SHEET NO.  
**Q2**

SHEET 2 OF 7 SHEETS

COOMBES DEVELOPMENT  
6221 83RD PLACE SE  
MERCER ISLAND, WA 98040  
**TREE PROTECTION PLAN**  
**TESS PLAN - 2**

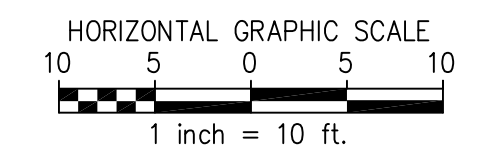


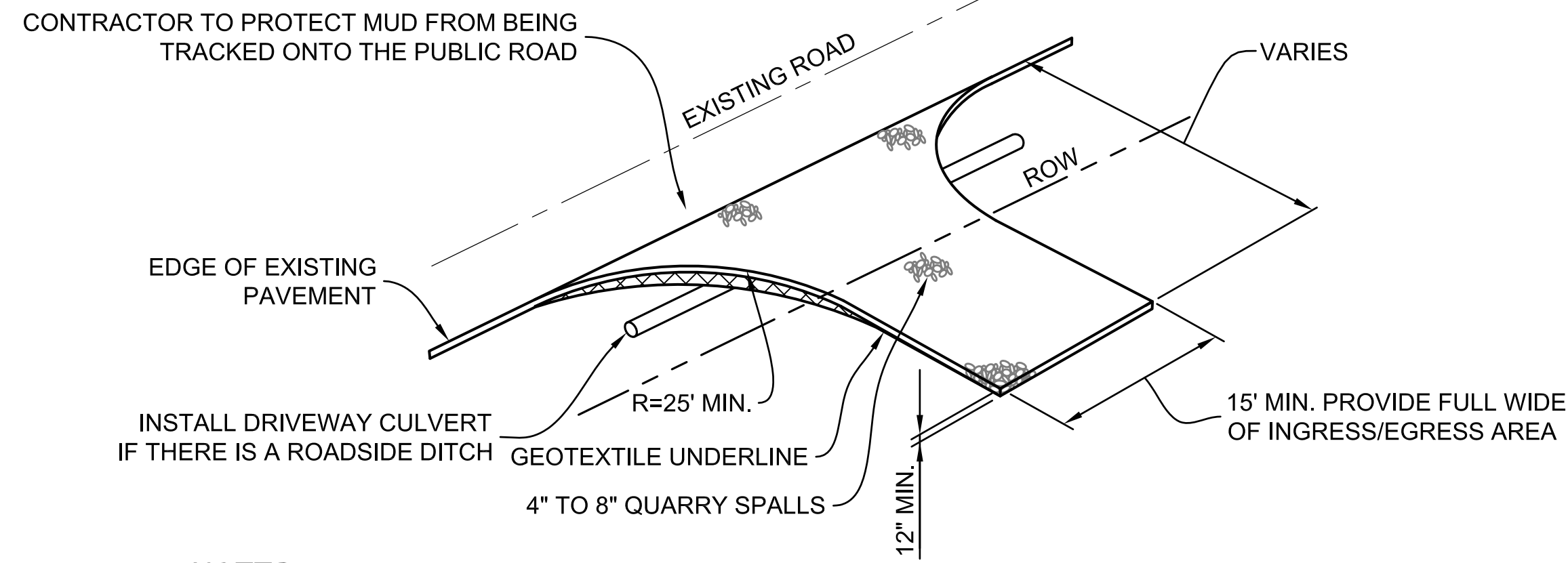
**PBC**  
Land Development and Civil Engineering Consultants  
5130 South 166th Lane  
SeaTac, WA 98188  
T (206) 229-6422

JOB NO.	ISSUE DATE
<b>R22465</b>	7-05-2022
DESIGNED BY:	L. PHAN
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REVISION DESCRIPTION

NO. DATE BY





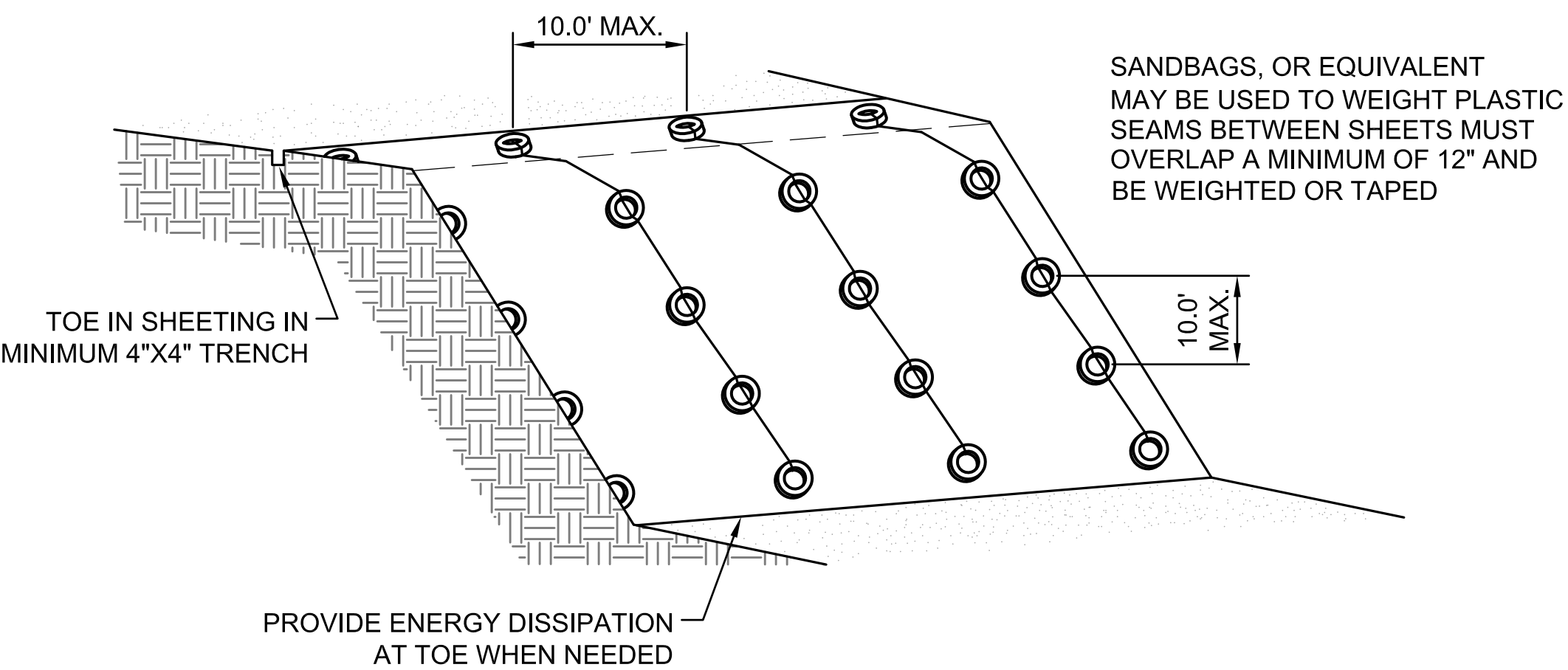
**NOTES:**

DRIVEWAYS SHALL BE PAVED TO THE EDGE OF RIGHT-OF-WAY PRIOR TO INSTALLATION OF THE CONSTRUCTION ENTRANCE TO AVOID DAMAGING OF THE ROADWAY.

IT IS RECOMMENDED THAT THE ENTRANCE BE CROWNED SO THAT RUNOFF DRAINS OFF THE ROAD.

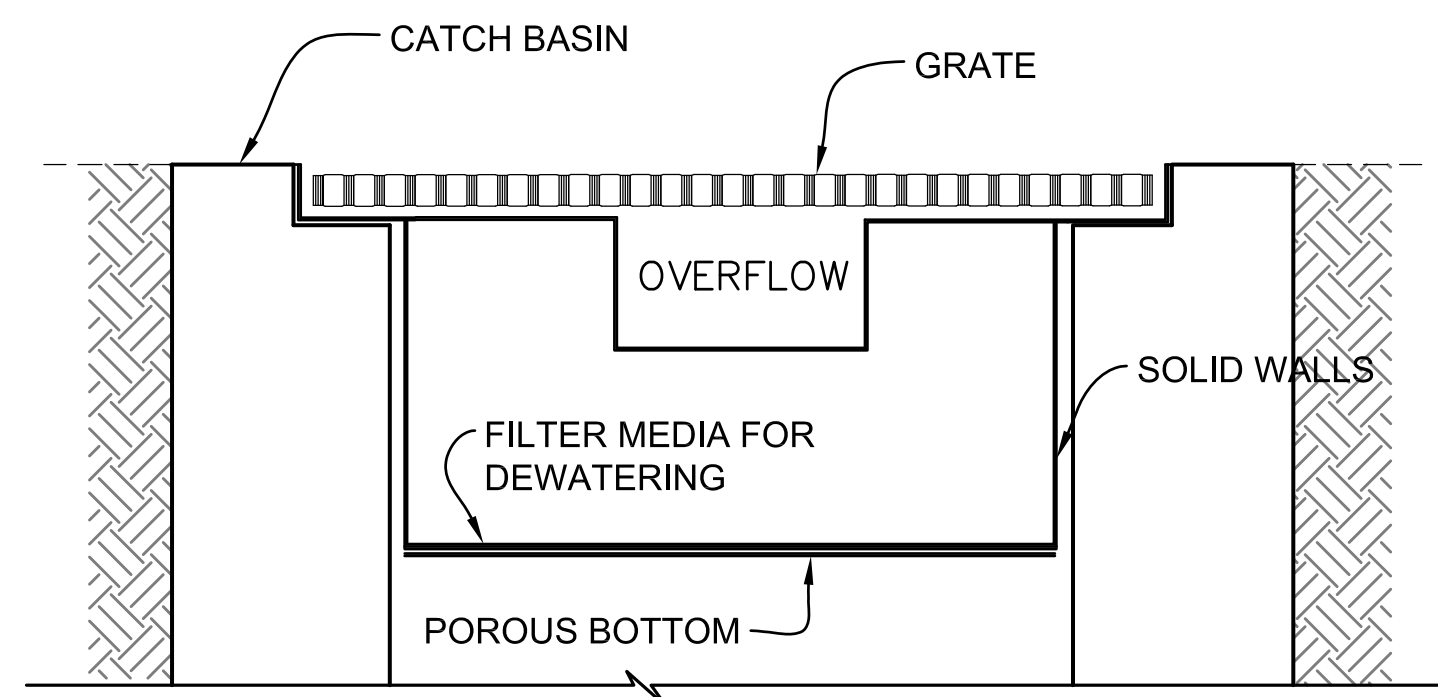
**CONSTRUCTION ENTRANCE DETAIL**

SCALE: NONE



**PLASTIC COVERING DETAIL**

SCALE: NONE

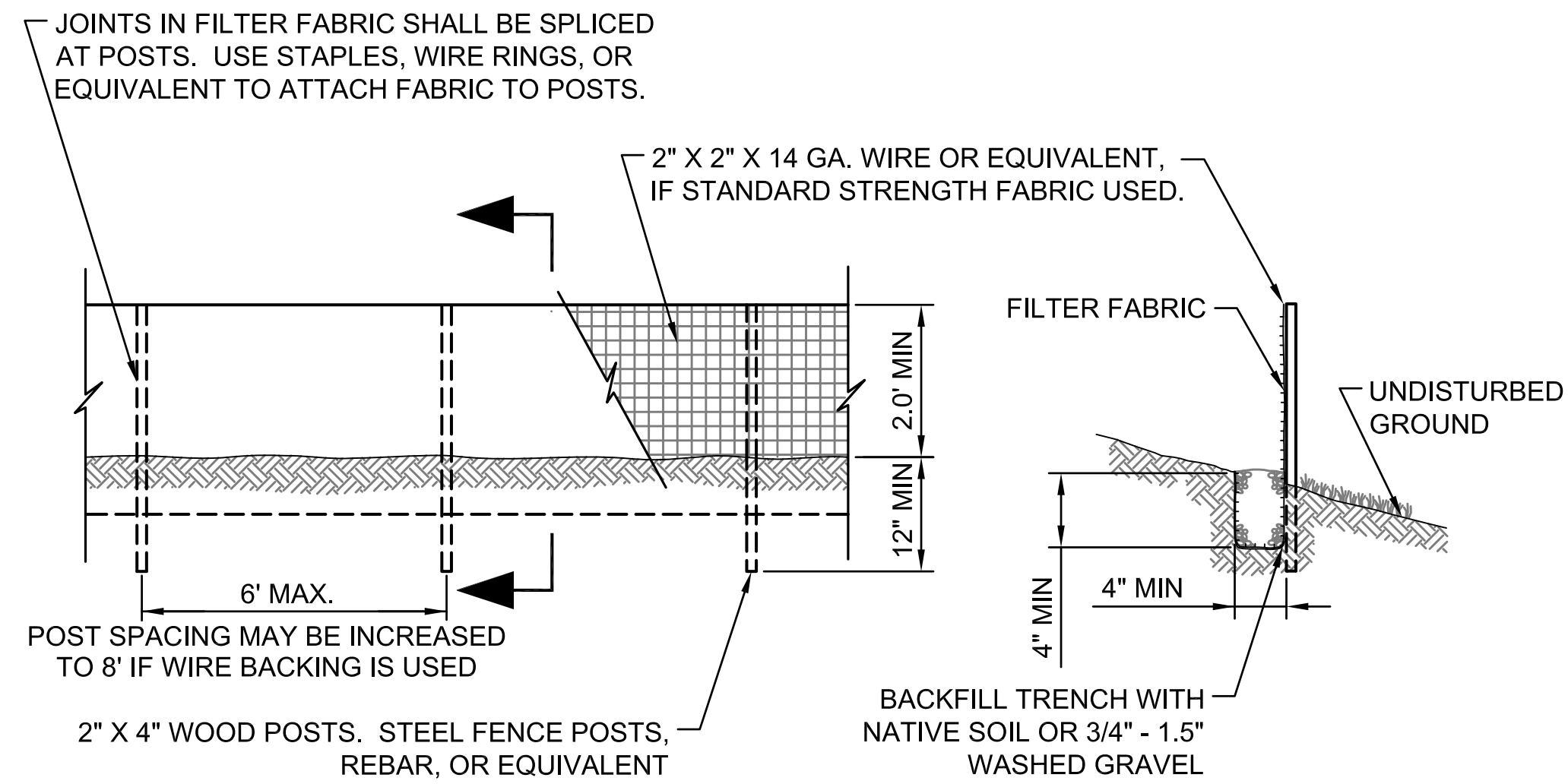


**NOTES:**

THIS DETAIL IS ONLY SCHEMATIC. ANY INSERT IS ALLOWED THAT HAS A MIN. 0.5 CUBIC FEET OF STORAGE WITH THE MEANS TO DEWATER THE STORED SEDIMENT, PROVIDE AN OVERFLOW, AND CAN BE EASILY MAINTAINED.

**INLET PROTECTION DETAIL**

SCALE: NONE

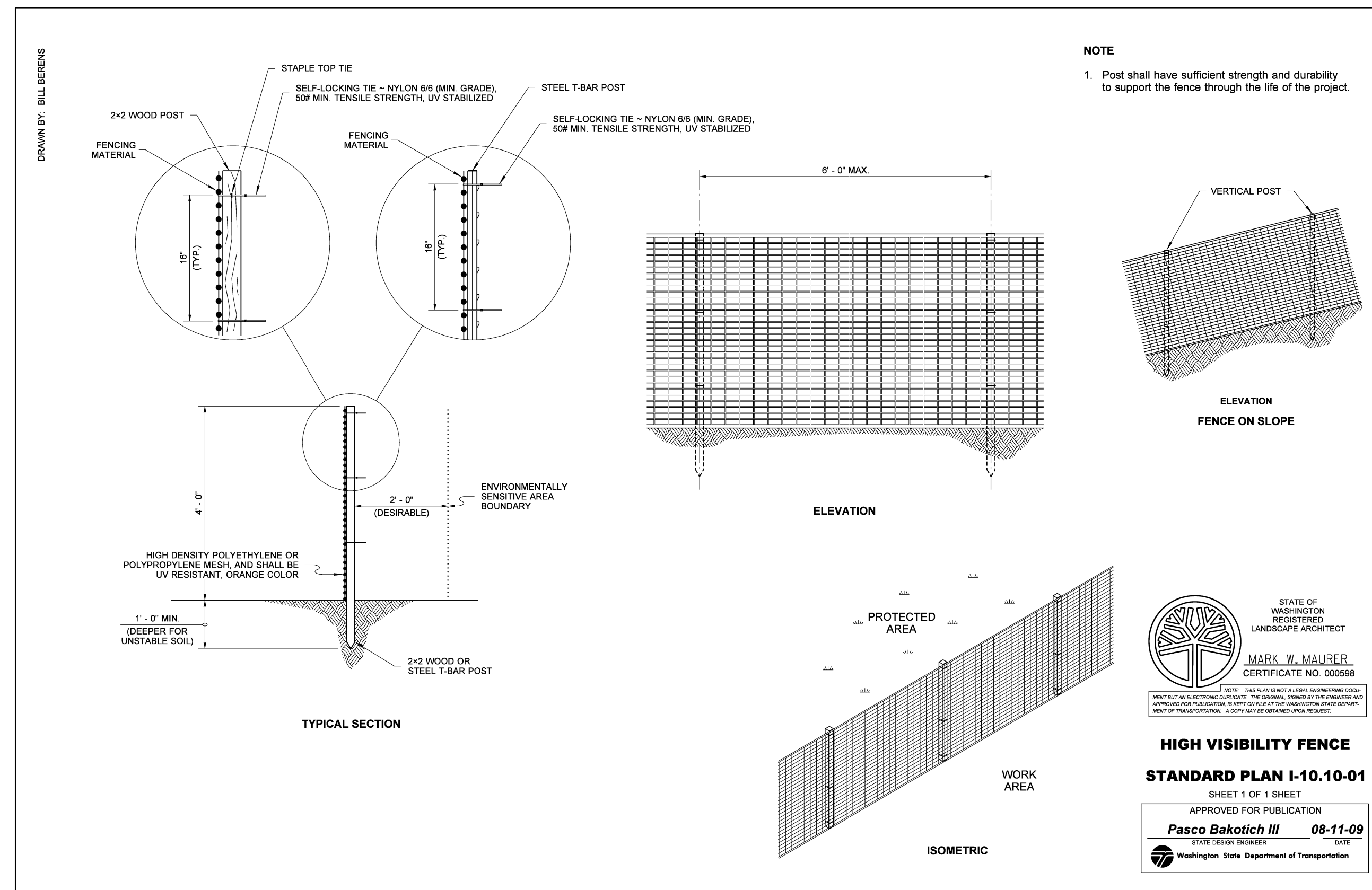


**NOTES:**

FILTER FABRIC FENCES SHALL BE INSTALLED ALONG CONTOUR WHENEVER POSSIBLE.

**SILT FENCE DETAIL**

SCALE: NONE

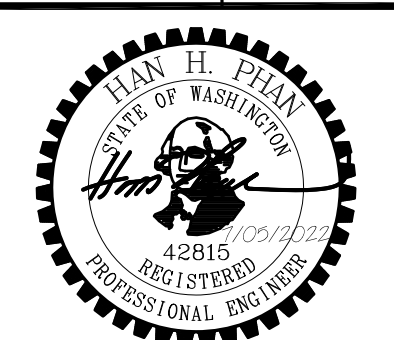


**HIGH VISIBILITY FENCE**  
**STANDARD PLAN I-10.10-01**  
 SHEET 1 OF 1 SHEET  
 APPROVED FOR PUBLICATION  
**Pasco Bakotich III** 08-11-09  
 STATE ENGINEER  
 Washington State Department of Transportation



COOMBES DEVELOPMENT  
 6221 83RD PLACE SE  
 MERCER ISLAND, WA 98040

**TESC DETAILS**

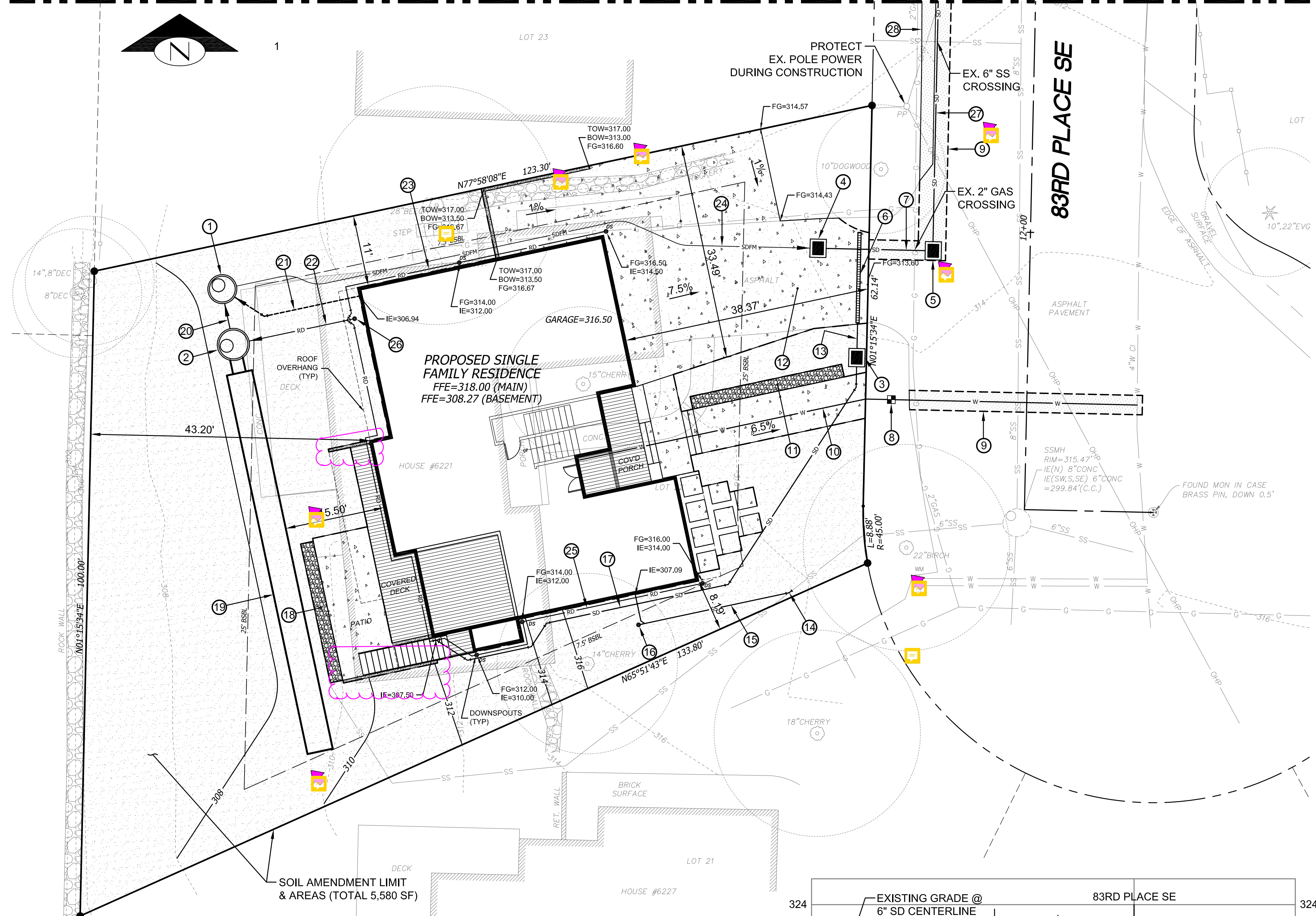


**PBC**  
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 5130 South 166th Lane  
 Seattle, WA 98188  
 T (206) 229-6422

ISSUE DATE	7-05-2022
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PROJ. MGR:	H. H. PHAN

NO.	DATE	REVISION DESCRIPTION

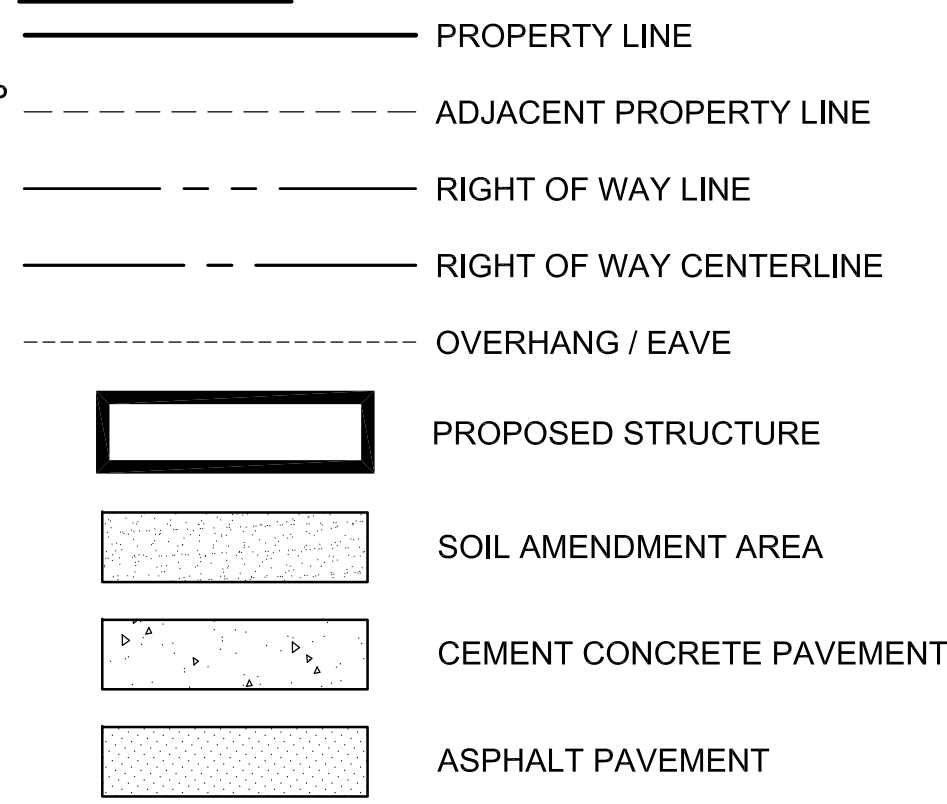
Jul 03, 2022 9:50pm Han Phan L:\Working\R22465 - 6221 83rd Place SE (COOMBES Development)\CADD\Drawings\R22465-PS-C3.dwg Layout Name: C3



CONSTRUCTION NOTES:

1. INSTALL CB #3 TYPE 1 - 48" WITH SOLID LID & DUPLEX PUMP STATION PER DETAIL ON SHEET 7  
RIM=308.50  
IE (S)=303.42  
IE (SE)=304.00  
IE (E)=304.42  
SUMP=300.42
2. INSTALL CB #2 TYPE 2 - 54" WITH FLOW CONTROL & SOLID LOCKING LID PER DETAIL ON SHEET C6  
RIM=308.50  
IE (N,S)=303.50  
IE (E)=305.50
3. CB #1-TYPE 1 WITH SOLID LID & OIL SEPARATOR (RISER TEE)  
RIM=314.10  
IE (N)=311.70  
IE (S)=311.60
4. INSTALL CB #4-TYPE 1 WITH SOLID LID  
RIM=313.90  
IE (W)=312.75  
IE (E)=312.06
5. CB #5-TYPE 1 WITH SOLID LID  
RIM=313.25  
IE (W)=312.18  
IE (N)=312.08
6. 14' LONG x 5' WIDE SLOTTED DRAIN (DURA) H2O RATED TRAFFIC LID  
RIM=313.70  
IE=313.30
7. 15.5 LF 6" DI SD @ 1.00%
8. 1" WATER METER WITH 33 LF 2" SERVICE WATER SEE NOTE 1
9. SAWCUT & PAVEMENT PATCHING DETAILS TO BE APPROVED BY CITY INSPECTOR
10. 49 LF 1 1/2" WATER SERVICE LINE (POLYETHYLENE PIPE SDR 7)
11. INSTALL 2' WIDE x 24' LONG x 18" DEEP GRAVEL STRIP FOR WALKWAY DISPERSION
12. 4" CEMENT CONC. PAVEMENT
13. 4 LF 4" DI SD @ 50.00%
14. CONNECT TO EX. 4" SIDE SEWER (FIELD VERIFY) SEE NOTE 2
15. 29 LF 4" SDR 35 PVC GRAVITY SIDE SEWER @ 2.00%
16. 4" SSCO #2  
IE=307.00
17. 89 LF 4" SDR 35 PVC SD @ 2.00% MIN. CONNECT TO 4" ROOF DRAIN LINE
18. INSTALL 2' WIDE x 20' LONG x 18" DEEP GRAVEL STRIP FOR PATIO DISPERSION
19. INSTALL 4' DIA. X 60' LONG CMP DETENTION TANK  
TOP=307.00  
BOTTOM=303.00  
PER DETAIL ON SHEET C6
20. INSTALL 4 LF 8" PVC SDR 35 @ 2.00%
21. 21 LF 4" SOLID SDR 35 PVC FOOTING DRAIN COLLECTOR @ 14.00%
22. 17 LF 6" SDR 35 PVC ROOF DRAIN COLLECTOR @ 3.00%
23. 46 LF 4" SDR 35 PVC ROOF DRAIN @ 2.00% MIN.
24. INSTALL 91 LF 2" PVC SCHEDULE 80 STORM DRAIN FORCE MAIN
25. 105 LF 4" SDR 35 PVC ROOF DRAIN @ 2.00% MIN.
26. 6" SDCO #1  
IE=306.01
27. 176 LF 6" DI SD @ 5.00%
28. 2' WIDE ASPHALT THICKENED EDGE

LEGEND



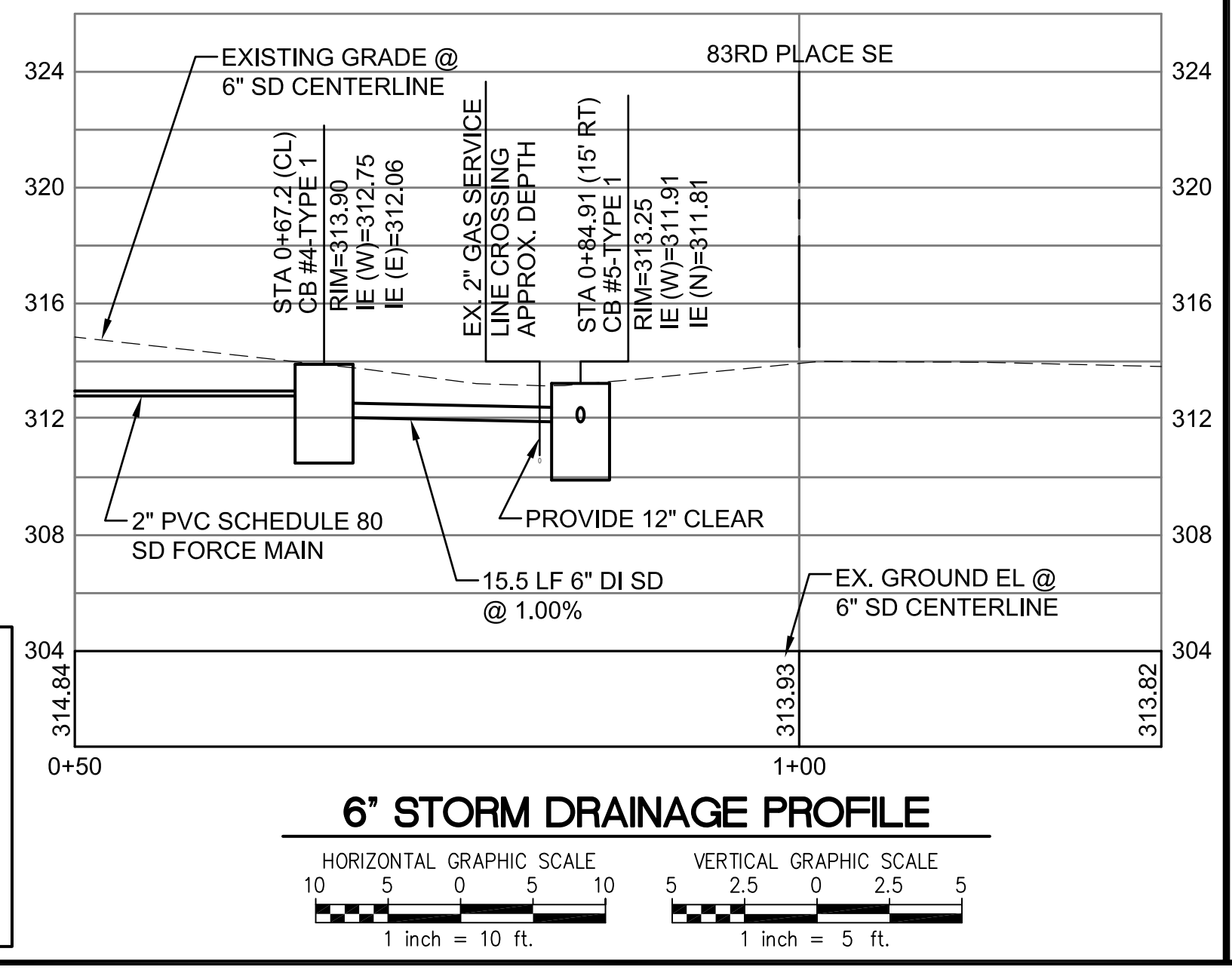
- NOTES:**
1. NEW WATER METER LOCATE 27.5' NORTH OF EXISTING WATER METER AND 4' EAST OF PROPERTY LINE. CONTRACTOR TO FIELD VERIFY THE EXISTING WATER LINE AND COORDINATE WITH CITY WATER DEPARTMENT DURING CONSTRUCTION.
  2. THE TV INSPECTOR OF THE EXISTING SIDE SEWER TO THE CITY SEWER MAIN ON 83RD PLACE SE IS REQUIRED PRIOR TO ANY WORK RELATED TO THE SIDE SEWER. IF THE RESULT OF THE TV INSPECTION IS NOT IN SATISFACTORY CONDITION, AS DETERMINED BY THE CITY OF MERCER ISLAND INSPECTOR, THE REPLACEMENT OF THE EXISTING SIDE SEWER IS REQUIRED.



**SOIL AMENDMENT NOTE:**  
THE LAWN AND LANDSCAPE AREAS ARE REQUIRED TO PROVIDE POST-CONSTRUCTION SOIL QUALITY AND DEPTH IN ACCORDANCE WITH BMP T5.13. THE PROJECT CIVIL ENGINEER MUST PROVIDE A LETTER OF CERTIFICATION TO ENSURE THAT THE LAWN AND LANDSCAPE AREAS ARE MEETING THE POST-CONSTRUCTION SOIL QUALITY AND DEPTH REQUIREMENTS SPECIFIED ON THE APPROVED PLAN SET PRIOR TO FINAL INSPECTION OF THE PROJECT.

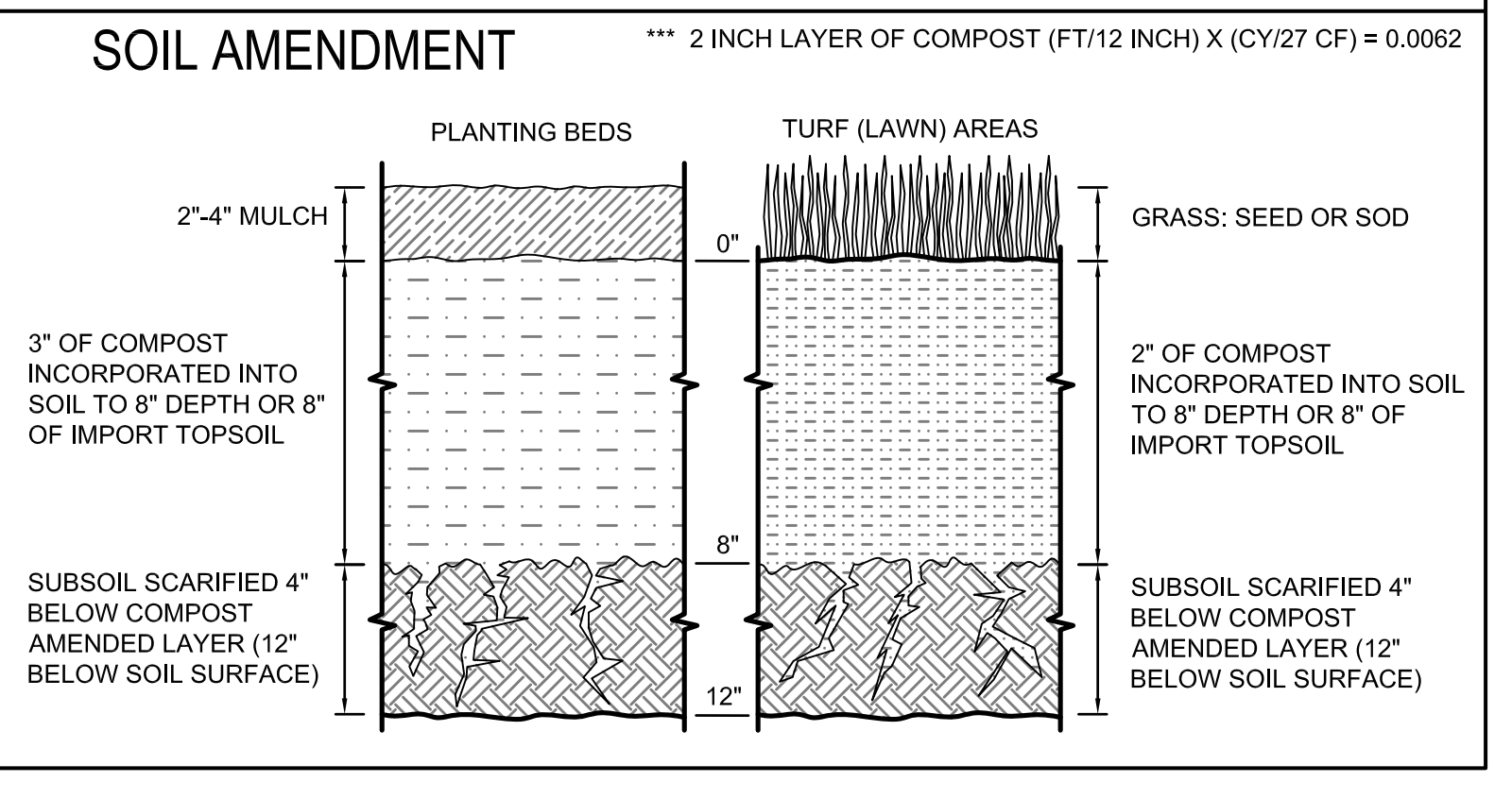
A BACKUP GENERATOR IS REQUIRED FOR THE FOOTING DRAIN PUMP SYSTEM

PRIVATE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY AND ALL CLAIMS FOR INJURIES AND DAMAGE DUE TO THE OPERATION OR NON-OPERATION OF THE PUMP SYSTEM



**ESTIMATED COMPOST REQUIRED FOR SOIL AMENDMENT**

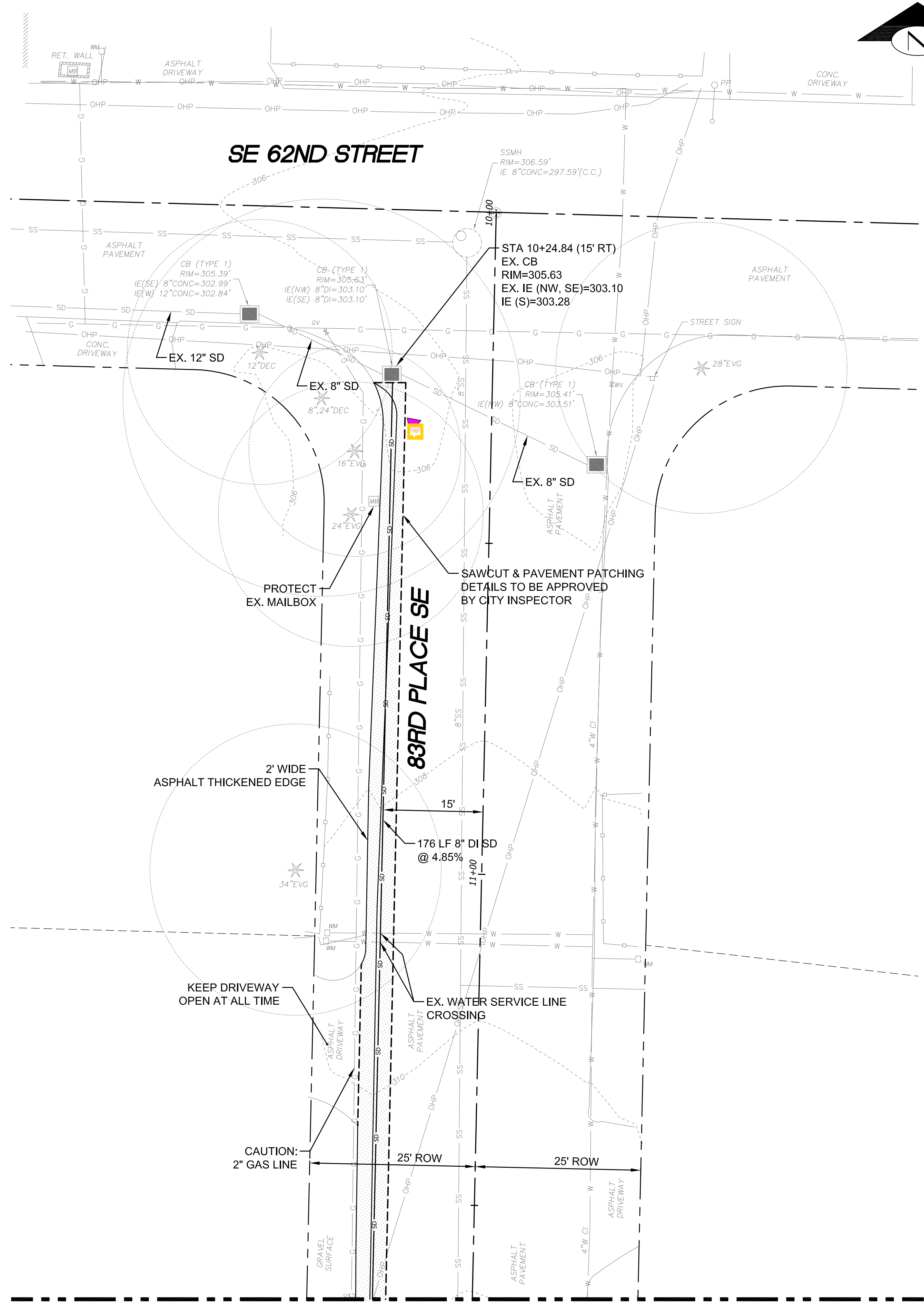
4.437	(SQUARE FEET) X 0.0062	=	28	(CUBIC YARDS)
DISTURBED AREA REQUIRING AMENDMENT		REQUIRED COMPOST		



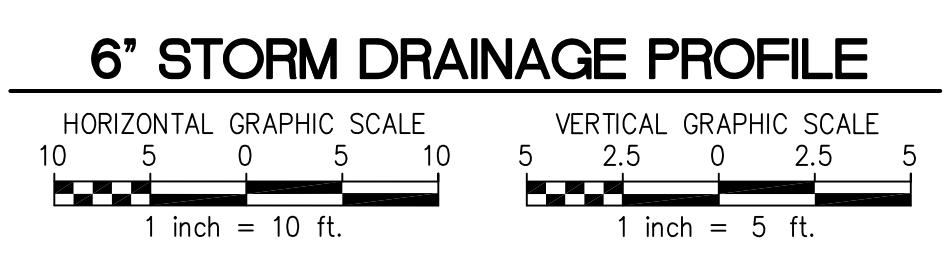
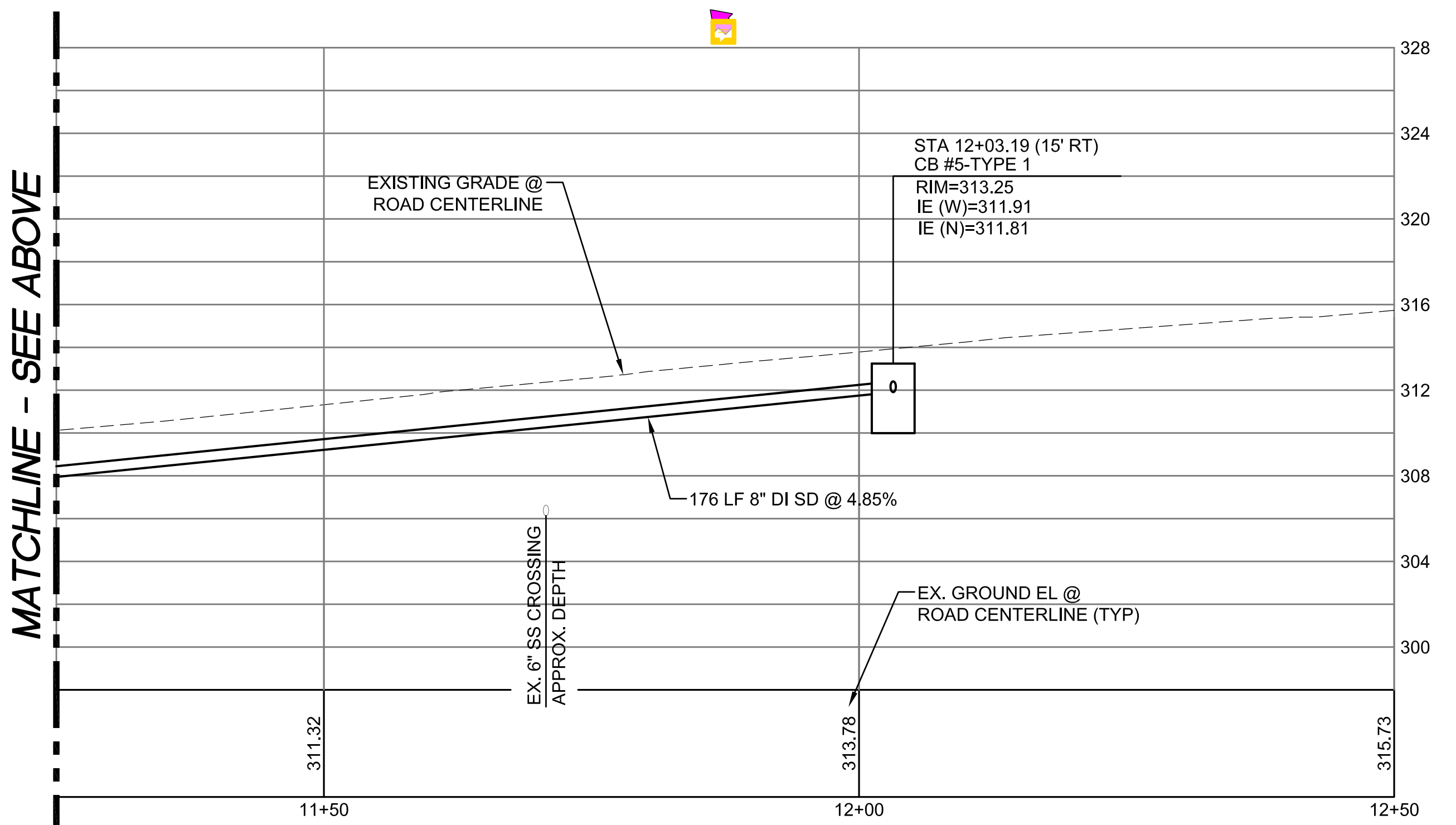
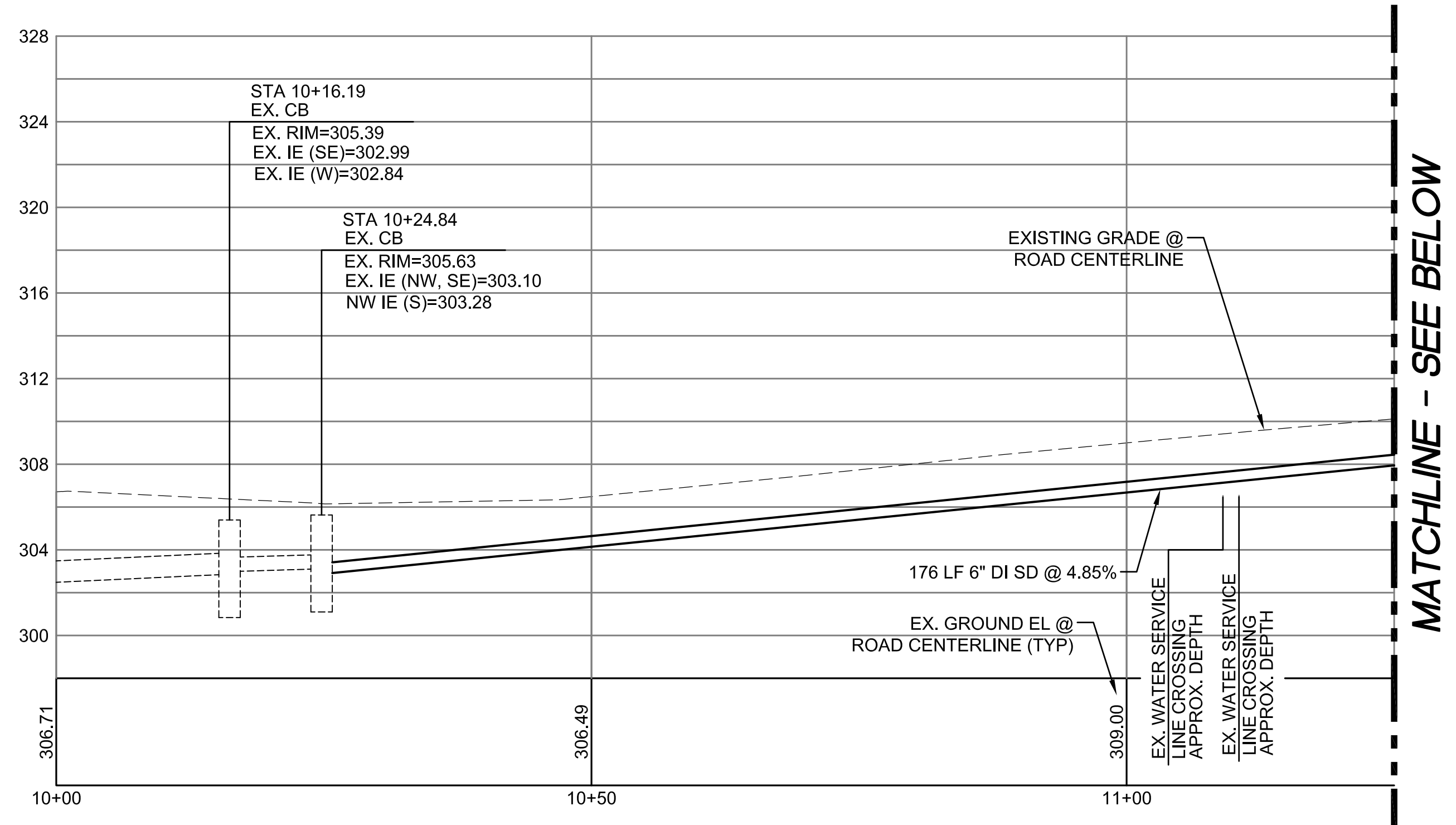
REFERENCE SHEET NO.	C4	SHEET	4
		OF	7
		SHEETS	
<b>COOMBES DEVELOPMENT</b> <b>6221 83RD PLACE SE</b> <b>MERCER ISLAND, WA 98040</b> <b>STORMWATER / UTILITY</b> <b>PLAN AND DETAILS - 1</b>			
ISSUE DATE	7-05-2022	DESIGNED BY:	L. PHAN
JOB NO.	R22465	DRAWN BY:	L. PHAN
		CHECKED BY:	H.H. PHAN
		PROJ. MNGR:	H.H. PHAN
NO.	DATE	REVISION DESCRIPTION	



Jul 07, 2022 12:44pm Han Phan L:\Working\R22465 - 6221 83rd Place SE (COOMBES Development)\CADD\Drawings\R22465-PS-C5.dwg Layout Name: C5



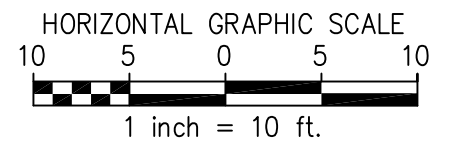
MATCHLINE - SEE SHEET C5



**LEGEND**

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- RIGHT OF WAY LINE
- RIGHT OF WAY CENTERLINE
- ASPHALT PAVEMENT

**EXISTING CB NOTE:**  
IF THE EXISTING CATCH BASIN IS NOT IN SATISFACTORY CONDITION, AS DETERMINED BY THE CITY OF MERCER ISLAND INSPECTOR, THE REPLACEMENT OF THE EXISTING CATCH BASIN IS REQUIRED.



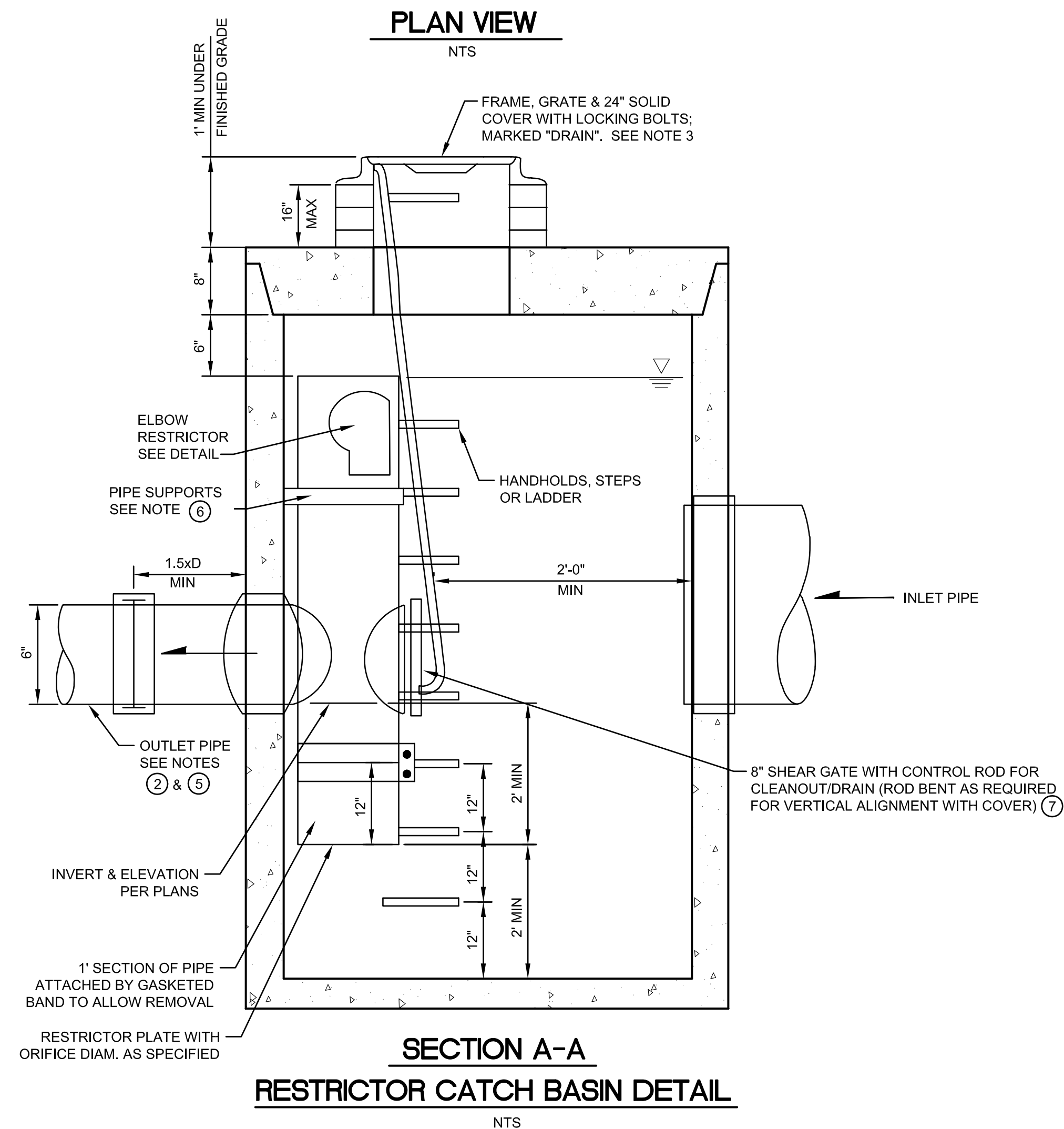
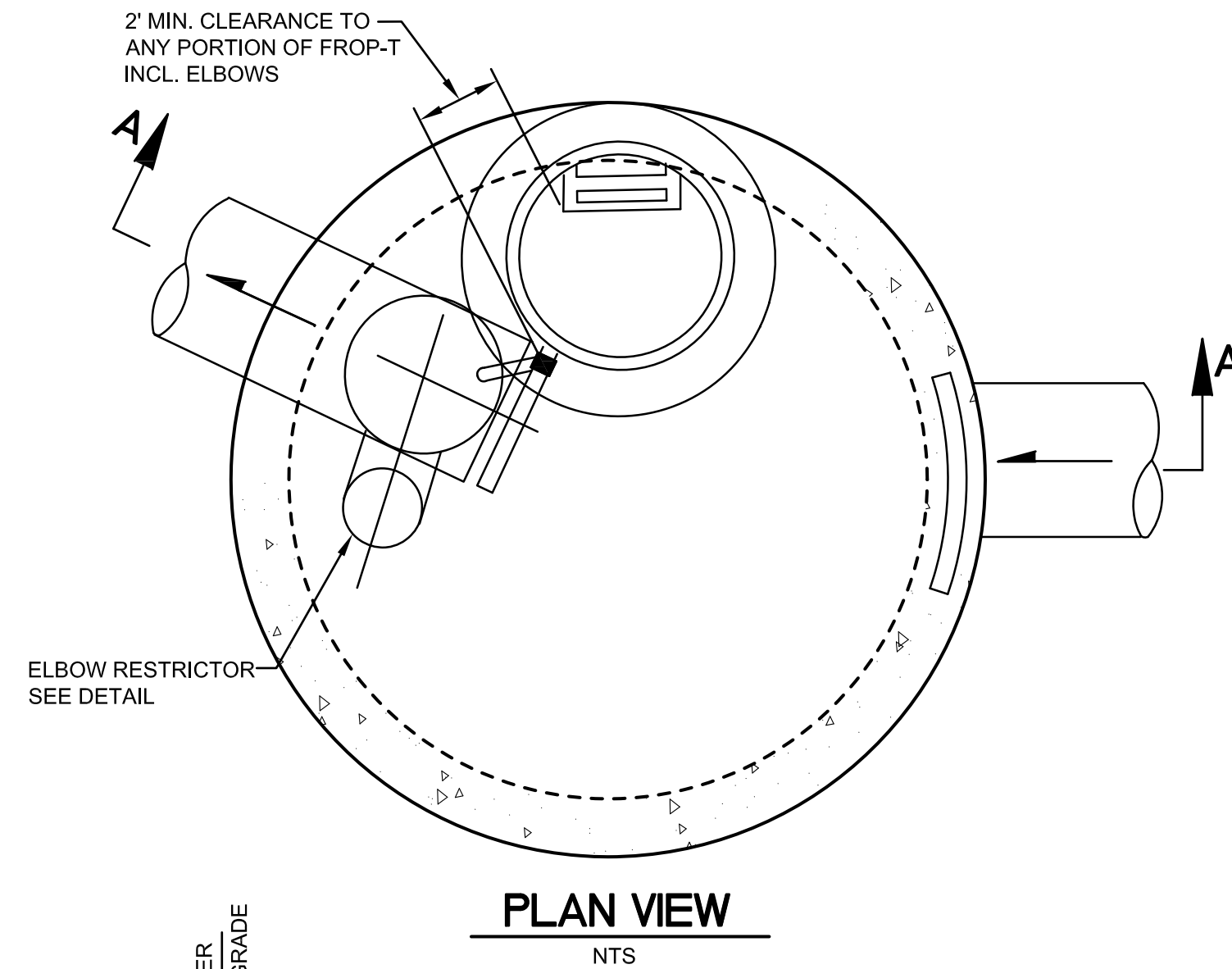
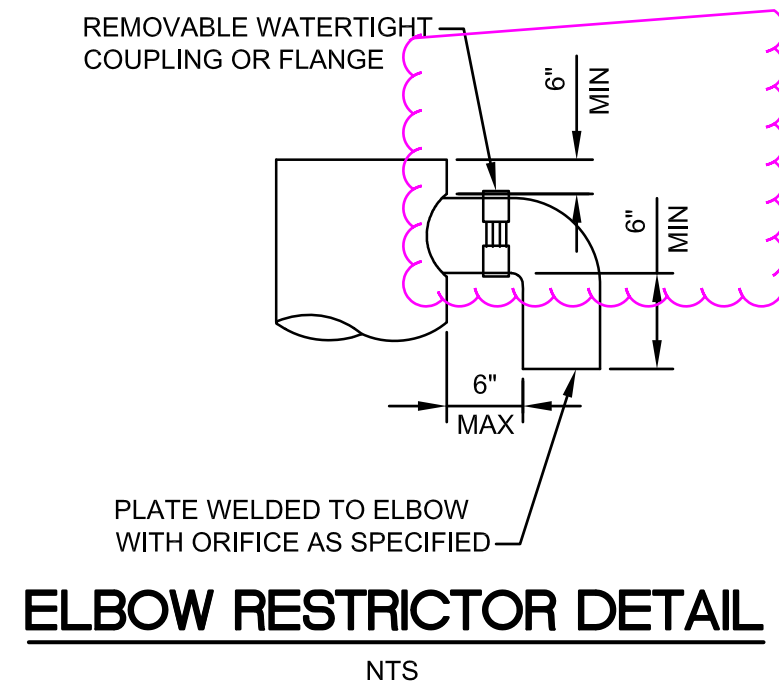
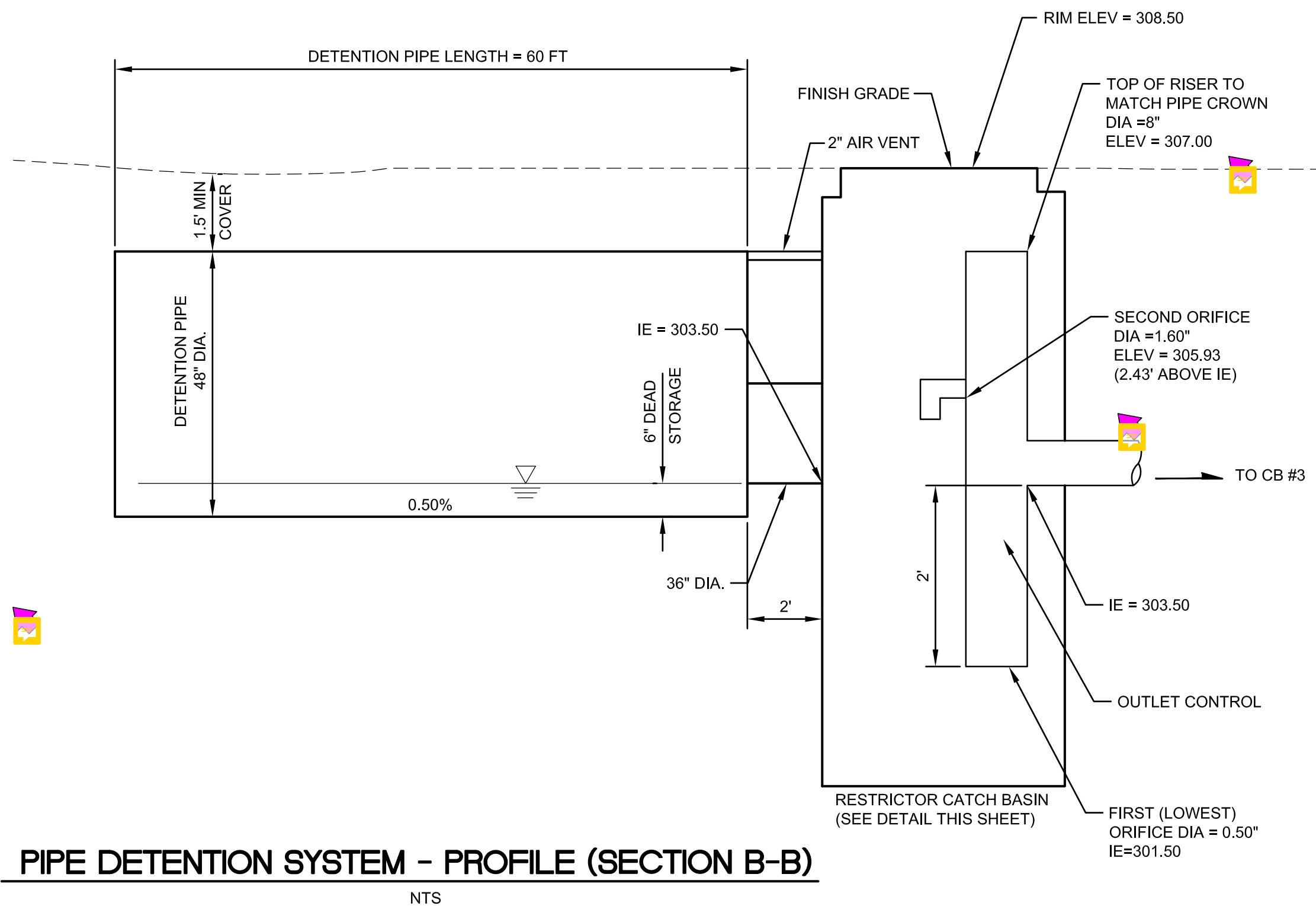
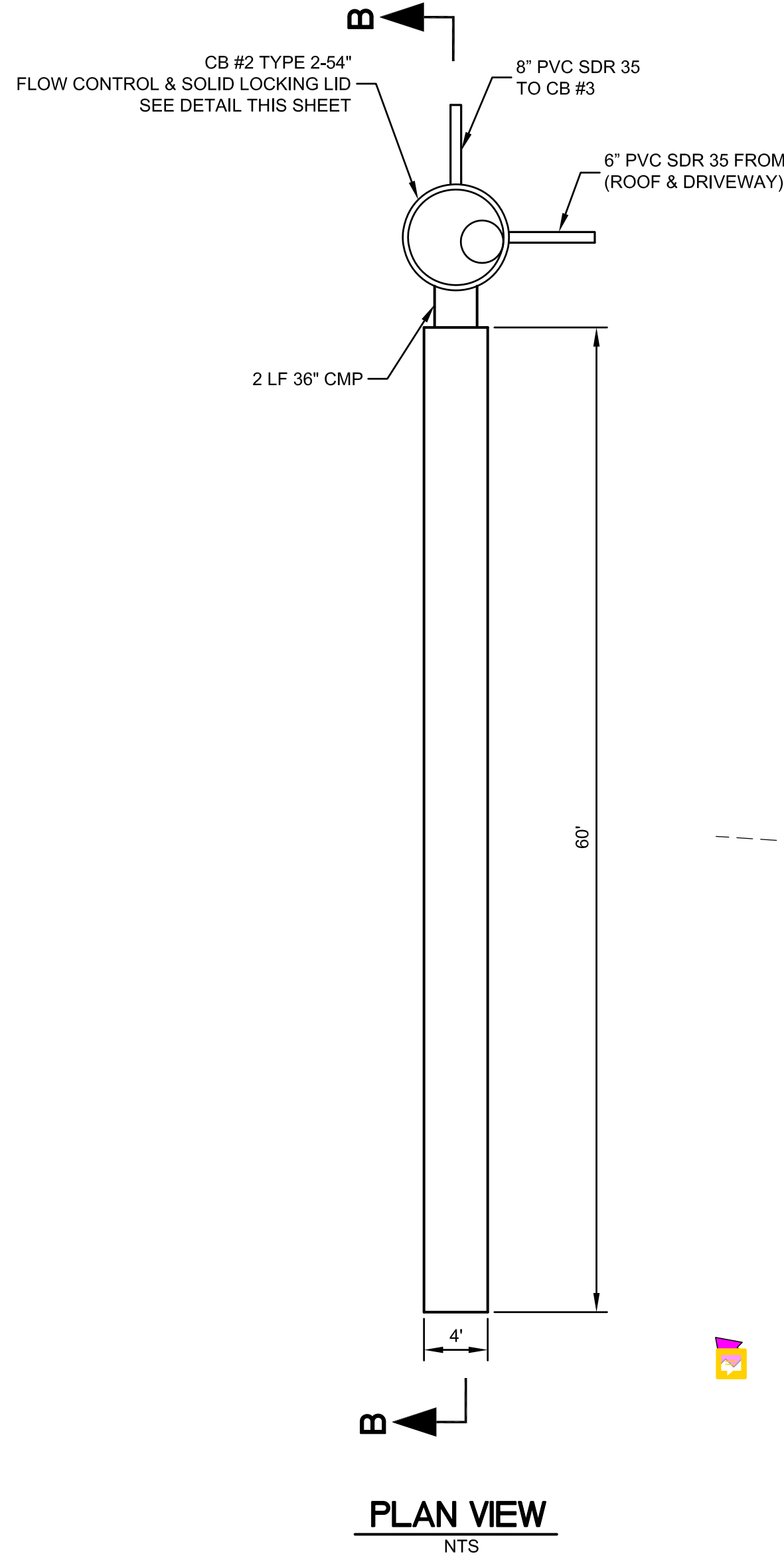
REFERENCE SHEET NO. <b>C5</b>	SHEET 5 OF 7 SHEETS																
<b>COOMBES DEVELOPMENT</b> <b>6221 83RD PLACE SE</b> <b>MERCER ISLAND, WA 98040</b> <b>STORMWATER / UTILITY</b> <b>PLAN AND DETAILS - 2</b>																	
JOB NO. <b>R22465</b>	ISSUE DATE 7-05-2022																
DESIGNED BY: L. PHAN	CHECKED BY: H.H. PHAN																
DRAWN BY: L. PHAN	PROJ. MNGR: H.H. PHAN																
<table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REVISION DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	BY	REVISION DESCRIPTION												
NO.	DATE	BY	REVISION DESCRIPTION														

**STANDARD DETENTION SYSTEM NOTES:**

- CALL DEVELOPMENT SERVICES (206-275-7605) 24 HOURS IN ADVANCE FOR A DETENTION SYSTEM INSPECTION BEFORE BACKFILLING AND FOR FINAL INSPECTIONS.
- RESPONSIBILITY FOR OPERATION AND MAINTANANCE OF DRAINAGE SYSTEMS ON PRIVATE PROPERTY IS RESPONSIBILITY OF THE PROPERTY OWNER. MATERIAL ACCUMULATED IN THE STORAGE PIPE MUST BE REMOVED FROM CATCH BASINS TO ALLOW PROPER OPERATION. THE OUTLET CONTROL ORIFICE MUST BE KEPT OPEN AT ALL TIMES.
- PIPE MATERIAL, JOINT, AND PROTECTIVE TREATMENT SHALL BE IN ACCORDANCE WITH SECTION 7.04 AND 9.05 OF THE WSDOT STANDARD SPECIFICATION FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, LATEST VERSION. SUCH MATERIALS INCLUDE THE FOLLOWING: LINE AND CORRUGATED POLYETHYLENE PIPE (LCPE), ALUMINIZED TYPE 2 CORRUGATED STEEL PIPE AND PIPE ARCH (MEETS AASHTO DESIGNATIONS M274 AND M36), CORRUGATED OR SPIRAL RIB ALUMINUM PIPE, OR REINFORCED CONCRETE PIPE. CORRUGATED STEEL PIPE IS NOT ALLOWED.

OWNER: JON COOMBES ADDRESS: 6221 83RD PLACE SE PREPARED BY: HAN PHAN, PE  
 PERMIT #: \_\_\_\_\_ ADDRESS: MERCER ISLAND, WA 98040 PHONE: 206-229-6422  
 DATE: 5-05-2022  
 IMPERVIOUS SURFACE AREA (SF): 4,437 DETENTION PIPE DIA (INCH) 48 DETENTION PIPE LENGTH (FT): 60 ORIFICE #1 DIA = 0.50 INCH, ELEV = 301.50  
 PIPE MATERIAL: CMP ORIFICE #2 DIA = 1.60 INCH, ELEV = 305.93

**FOOTING DRAINS SHALL NOT BE CONNECTED TO DETENTION SYSTEM**



**RESTRICTOR CATCH BASIN NOTES:**

- USE A MINIMUM OF A 72" DIA. TYPE 2 CATCH BASIN WHEN CONNECTING PIPE MATERIAL IS CONCRETE OR LCPE. A 54" DIA. TYPE 2 CATCH BASIN MAY BE USED FOR OTHER CIRCULAR SINGLE WALL PIPE (SUCH AS CORRUGATED ALUMINUM PIPE).
- OUTLET PIPE: MIN. 6".
- METAL PARTS: CORROSION RESISTANT. NON-GALVANIZED PARTS PREFERRED. GALVANIZE PIP PARTS TO HAVE ASPHALT TREATMENT 1.
- FRAME AND LADDER OR STEPS OFFSET SO:
  - CLEANOUT GATE IS VISIBLE FROM TOP;
  - CLIMB-DOWN SPACE IS CLEAR OF RISER AND CLEANOUT GATE;
  - FRAME IS CLEAR OF CURB.
- IF METAL OUTLET PIPE CONNECTS TO CEMENT CONCRETE PIPE, OUTLET PIPE TO HAVE SMOOTH O.D. EQUAL TO CONCRETE PIPE I.D. LESS 1/4 IN.
- PROVIDE AT LEAST ONE 3 X 0.090 GAUGE SUPPORT BRACKET ANCHORED TO CONCRETE WALL WITH 3/8 IN. STAINLESS STEEL EXPANSION BOLTS OR EMBEDDED SUPPORTS 2 IN. INTO CATCH BASIN WALL (MAXIMUM 3'-0" VERTICAL SPACING).
- THE SHEAR GATE SHALL BE MADE ON ALUMINUM ALLOY IN ACCORDANCE WITH ASTM B 26M AND ASTM B 275, DESIGNATION ZG32A; OR CAST IRON IN ACCORDANCE WITH ASTM A 48, CLASS 30B. THE LIFT HANDLE SHALL BE MADE OF A SIMILAR METAL TO THE GATE (TO PREVENT GALVANIC CORROSION), IT MAY BE OF SOLID ROD OR HOLLOW TUBING, WITH ADJUSTABLE HOOK AS REQUIRED. A NEOPRENE RUBBER GASKET IS REQUIRED BETWEEN THE RISER MOUNTING FLANGE AND THE GATE FLANGE. INSTALL THE GATE SO THAT THE LEVEL-LINE MARK IS LEVEL WHEN THE GATE IS CLOSED. THE MATING SURFACES OF THE LID AND THE BODY SHALL BE MACHINED FOR PROPER FIT. ALL SHEAR GATE BOLTS SHALL BE STAINLESS STEEL.

REFERENCE SHEET NO.	C6	SHEET NO.	6 OF 7 SHEETS
<b>COOMBES DEVELOPMENT</b> 6221 83RD PLACE SE MERCER ISLAND, WA 98040 <b>DETENTION PIPE SYSTEM DETAILS</b>			
<b>PBC</b> Land Development and Civil Engineering Consultants 5130 South 166th Lane Seattle, WA 98188 T (206) 229-6422			
ISSUE DATE	7-05-2022	DESIGNED BY:	L. PHAN
JOB NO.	R22465	DRAWN BY:	L. PHAN
REVISION DESCRIPTION		CHECKED BY:	H.H. PHAN
NO.	DATE	BY	

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Soil Type*	New Impervious Area (sf)														
	500 to 1,000 sf			1,001 to 2,000 sf			2,001 to 3,000 sf			3,001 to 4,000 sf			4,001 to 5,000 sf		
	Detention Pipe Size (in.) and Length (ft)			Detention Pipe Size (in.) and Length (ft)			Detention Pipe Size (in.) and Length (ft)			Detention Pipe Size (in.) and Length (ft)			Detention Pipe Size (in.) and Length (ft)		
B	36"	48"	60"	36"	48"	60"	36"	48"	60"	36"	48"	60"	36"	48"	60"
C	30	18	11	66	34	22	90	48	30	120	62	42	186	90	48
	22	11	7	43	23	14	66	36	20	78	42	26	132	60	37

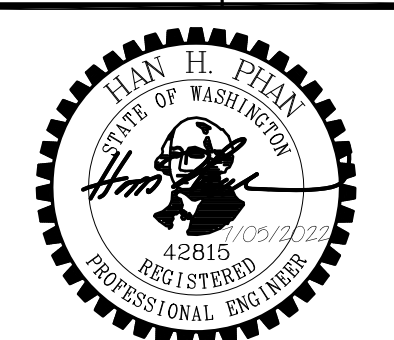
**NEW IMPERVIOUS CALC.**

ROOF AREA (INCLUDING OVERHANG): 2,693 SF  
 DRIVEWAY: 1,282 SF  
 WALKWAY & PATIO: 462 SF  
 TOTAL: 4,437 SF

REFERENCE SHEET NO. **C7**  
 SHEET 7 OF 7 SHEETS

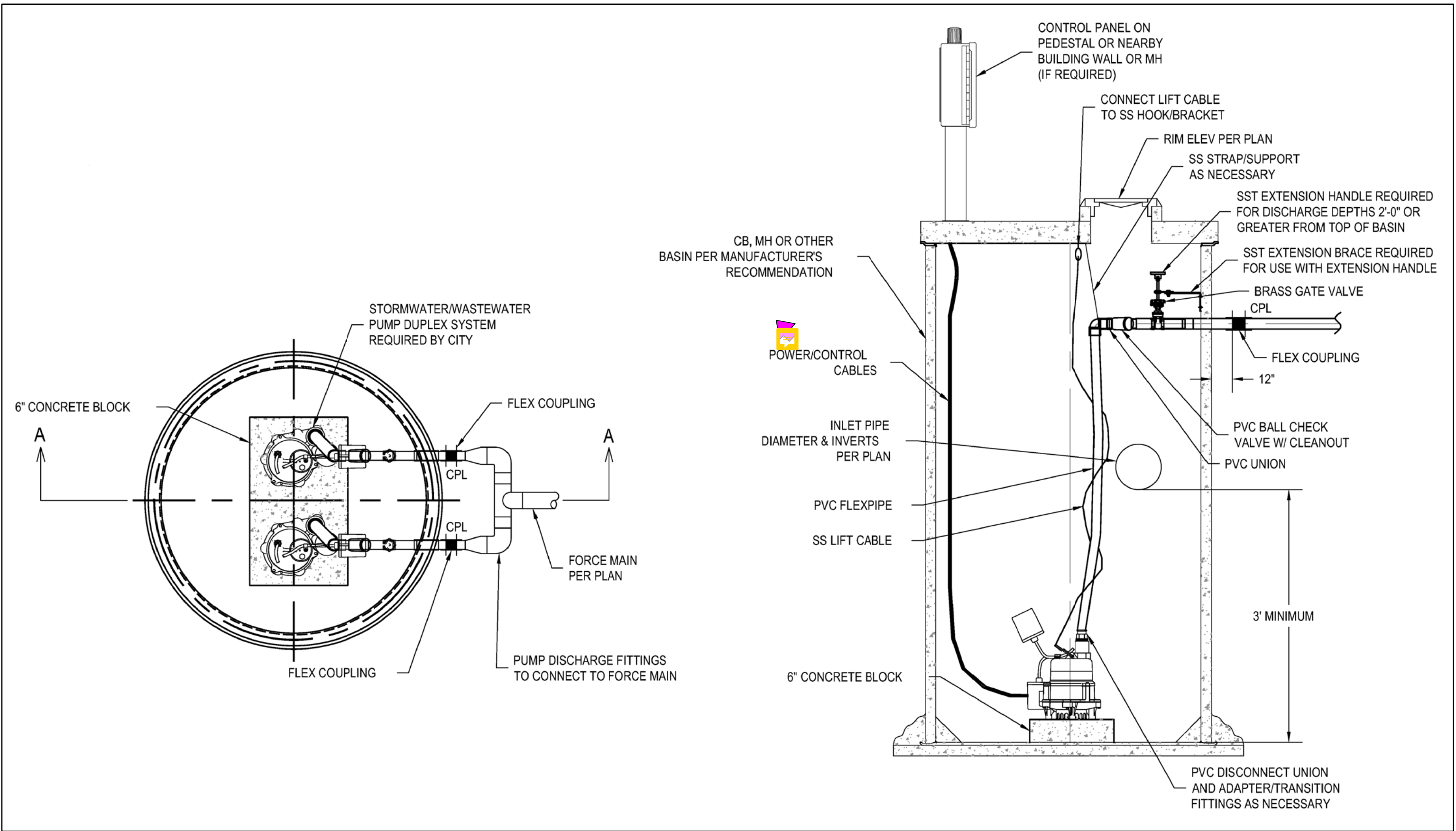
COOMBES DEVELOPMENT  
 6221 83RD PLACE SE  
 MERCER ISLAND, WA 98040

**DETAILS**



Outlet Orifice Size and Design Height for Type B Soils Only															
Detention Pipe Size (in)	Lowest Orifice Diameter (inches)	Distance from Outlet to Second Orifice (feet)	Second Orifice Diameter (inches)	Lowest Orifice Diameter (inches)	Distance from Outlet to Second Orifice (feet)	Second Orifice Diameter (inches)	Lowest Orifice Diameter (inches)	Distance from Outlet to Second Orifice (feet)	Second Orifice Diameter (inches)	Lowest Orifice Diameter (inches)	Distance from Outlet to Second Orifice (feet)	Second Orifice Diameter (inches)	Lowest Orifice Diameter (inches)	Distance from Outlet to Second Orifice (feet)	Second Orifice Diameter (inches)
36	0.5	2.2	0.5	0.5	2.2	0.94	0.5	2.2	0.94	0.5	2.4	1.4	0.5	2.44	1.4
48	0.5	3.3	0.94	0.5	3.2	0.9	0.5	3.1	0.9	0.5	2.8	0.8	0.5	2.7	0.75
60	0.5	4.15	0.47	0.5	4.3	0.94	0.5	4.2	0.94	0.5	3.8	0.94	0.5	4.14	0.9

Outlet Orifice Size and Design Height for Type C Soils Only															
Detention Pipe Size (in)	Lowest Orifice Diameter (inches)	Distance from Outlet to Second Orifice (feet)	Second Orifice Diameter (inches)	Lowest Orifice Diameter (inches)	Distance from Outlet to Second Orifice (feet)	Second Orifice Diameter (inches)	Lowest Orifice Diameter (inches)	Distance from Outlet to Second Orifice (feet)	Second Orifice Diameter (inches)	Lowest Orifice Diameter (inches)	Distance from Outlet to Second Orifice (feet)	Second Orifice Diameter (inches)	Lowest Orifice Diameter (inches)	Distance from Outlet to Second Orifice (feet)	Second Orifice Diameter (inches)
36	0.5	2	0.8	0.5	2.3	1.41	0.5	2.4	1.9	0.5	2.15	1.64	0.5	1.72	2.3
48	0.5	3.2	0.8	0.5	3.3	1.17	0.5	2.83	1.5	0.5	2.9	1.3	0.5	2.43	1.6
60	0.5	3.4	0.6	0.5	3.6	0.89	0.5	3.7	1.1	0.5	3.9	1.28	0.5	4.3	2.2



**DUPLEX PUMP STATION**  
 SCALE: NONE

GENERAL DESCRIPTION	DUPLEX PARALLEL SUBMERSIBLE GRINDER PUMPS
DESIGN CALCULATIONS	FROM RATIONAL METHOD CALCULATION: PEAK INFLOWS: 25-YR = 41 GPM 100-YR = 46.8 GPM
DESIGN FLOW AND TDH	1 PUMP: 46.8 GPM @ 22.5' TDH 2 PUMP: 46.8 GPM @ 22.5' TDH
PUMP ELECTRICAL	1 HP, 1 PHASE, 115 V, WE SERIES (MODEL WE0511 HH OR EQ.)
PUMP CONTROLS	ALTERNATE PUMP STARTS, LOW AND HIGH LEVEL ALARM LIGHT
PUMP MOUNTING AND DISCHARGE	INCREASER TO 2" DISCHARGE WITH 2" UNION, CHECK VALVE, AND GATE VALVE FROM EACH PUMP
DISCHARGE MANIFOLD	2" x 2" DISCHARGE TO FORCE MAIN
FORCE MAIN & FITTINGS	2"
<b>FLOAT SPECIFICATIONS</b>	
REDUNDANT OFF AND LOW LEVEL ALARM	PER MANUFACTURE'S REQUIREMENTS
OFF	PER MANUFACTURE'S REQUIREMENTS
ON (1ST PUMP)	1.5' ABOVE OFF
ON (2ND PUMP)	2.5' ABOVE OFF
HIGH LEVEL ALARM	0.5' ABOVE 2ND PUMP ON
MIN. HEIGHT FROM HIGH LEVEL ALARM TO LOWEST INLET	0.5'
NOTES:	
1. THESE SPECIFICATIONS ARE SCHEMATIC IN NATURE AND SHALL BE CONFIRMED BY SUPPLIER AND CONTRACTOR.	
2. PUMP FLOATS/CONTROLS SHALL BE FIELD TESTED AND ADJUSTED TO ACHIEVE OPTIMUM PUMP CYCLE TIMES PER MANUFACTURE'S RECOMMENDATIONS.	
3. EXPLOSION PROOF PUMPS, CONTROLS, AND ELECTRICAL COMPONENTS SHALL BE INSTALLED IF REQUIRED BY CODE.	

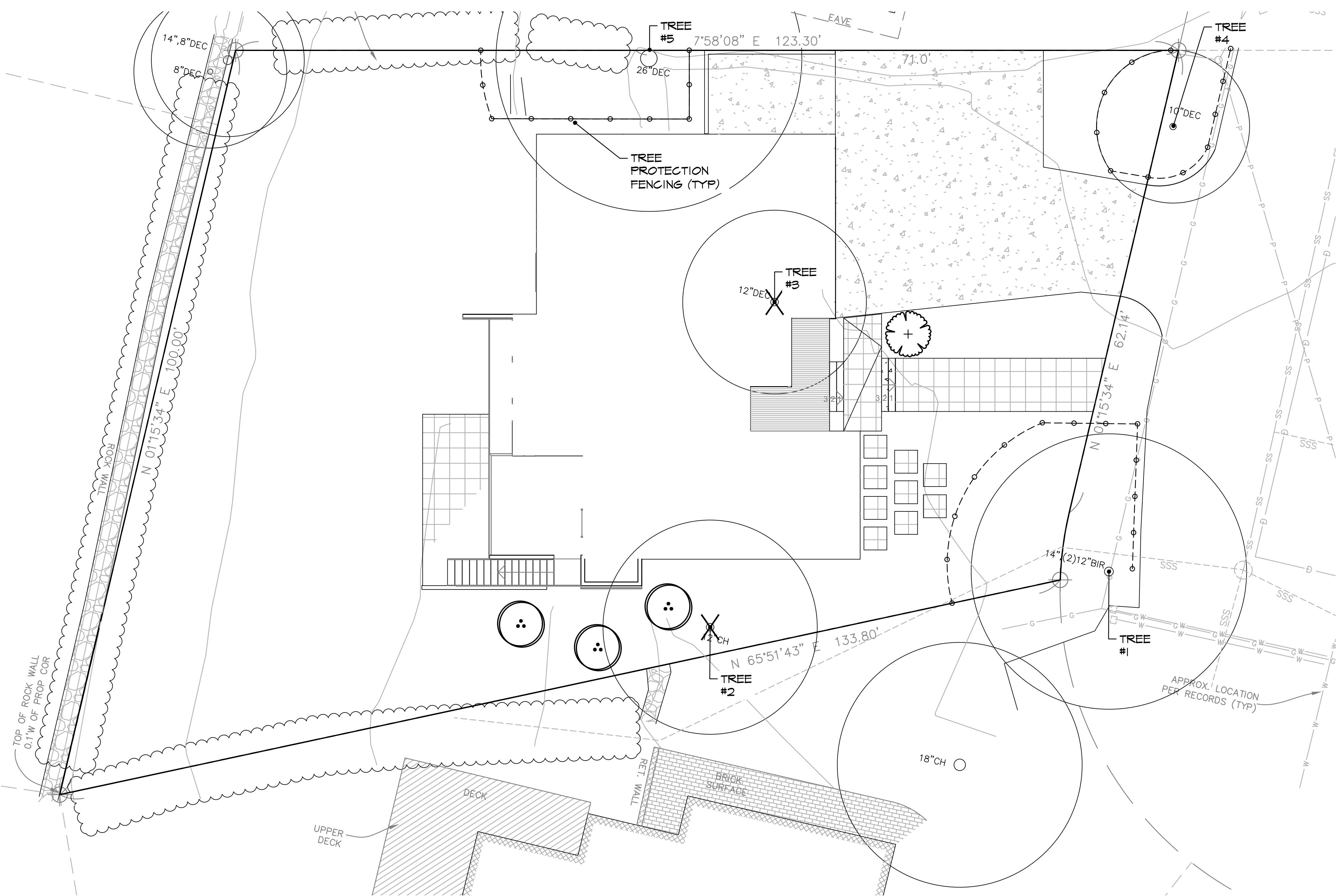
**STORM DRAIN DUPLEX PUMP STATION SPECIFICATIONS**

JOB NO.	R22465	ISSUE DATE	7-05-2022
	DESIGNED BY:		L. PHAN
DRAWN BY:	L. PHAN	PROJ. MNGR:	H.H. PHAN
CHECKED BY:	H.H. PHAN		H.H. PHAN
NO.	DATE	REVISION DESCRIPTION	

**PBC**  
 Land Development and Civil Engineering Consultants  
 5130 South 166th Lane  
 Seattle, WA 98188  
 T (206) 229-6422

**PLANT SCHEDULE**

REPLACEMENT TREES	BOTANICAL / COMMON NAME	SIZE	QTY
	Acer circinatum / Vine Maple	1.5" Cal	3
	Acer japonicum 'Autumn Moon' / Autumn Moon Maple	1.5" Cal	1



Tree/ Tag #	Species Common Name	Species Scientific Name	DBH (inches)	Height (feet)	Drip-Line / Limits of Disturbance (feet)				Condition	Regulated Yes/No	Exceptional Yes/No	Comments	Proposal
					N	S	E	W					
1	European white birch	<i>Betula pendula</i>	14,13,10 (22)	55	18/14	14	18	16/14	Fair-Good	Yes	No	fairly good form and vigor	Save
2	Mt. Fuji Cherry	<i>Prunus serrulata 'Shirotae'</i>	*14	20	8	12	12	6	Good	Yes	No	young specimen, close to house	Remove
3	Kwanzan cherry	<i>Prunus serrulata 'Kwanzan'</i>	15	22	10	6	8	8	Fair	Yes	No	topped in past, close to house	Remove
4	flowering dogwood	<i>Cornus florida</i>	7,5,4,4 (10)	16	10	10/7	6	8/7	Good	Yes	No	typical cluster, topped in past	Save
5	European beech	<i>Fagus sylvatica L.</i>	28	78	22	18/5	22/16	18/16	Good	Yes	No	good form, good vigor, close to house	Save
Neighboring Trees													
Trees #1 and #5 possibly 'boundary line' trees													

\* - caliper measurement at one-foot above ground  
 Drip-Line and Limits of Disturbance measurements from face of trunk  
 Calculated DBH: the DBH is parenthesis is the square root of the sum of the dbh for each individual stem squared (example with 3 stems: dbh = square root [(stem1)² +(stem2)² +(stem3)² ]).

PROJECT ARBORIST TO MONITOR ANY EXCAVATION WITHIN THE DRIPLINES OF RETAINED/OR IMPACTED TREES. CARE SHALL BE TAKEN WHEN WORKING NEAR TREES TO PROTECT SOILS AND SURFACE ROOTS THAT LIKELY EXTEND BEYOND THE DRIPLINE. COVER AREAS WITH A PROTECTIVE 6-8-INCH LAYER OF WOOD CHIPS OR HOG FUEL TO PROTECT SOILS FROM COMPACTION AND DAMAGED TO SURFACE ROOTS.

**Tree Protection Measures**

The following guidelines are recommended to ensure that the designated space set aside for the preserved trees are protected and construction impacts are kept to a minimum. Standards have been set forth under MICC 19.10.080. Please review these standards prior to any development activity.

- Tree protection fencing shall be erected per attached tree plan prior to moving any heavy equipment on site. Doing this will set clearing limits and avoid compaction of soils within root zones of retained trees.
- Excavation limits shall be laid out in paint on the ground to avoid over excavating.
- Excavations within the driplines shall be monitored by a qualified tree professional so necessary precautions can be taken to decrease impacts to tree parts. A qualified tree professional shall monitor excavations when work is required and allowed within the drip-line or critical root zone.
- To establish sub grade for foundations, curbs and pavement sections near the trees, soil shall be removed parallel to the roots and not at 90-degree angles to avoid breaking and tearing roots that lead back to the trunk within the dripline. Any roots damaged during these excavations shall be hand-excavated and exposed to sound tissue and cut cleanly with a saw prior to backfilling or finishing areas.
- Areas excavated within the drip-line of retained trees shall be thoroughly irrigated weekly during dry periods.
- Preparations for final landscaping shall be accomplished by hand within the driplines of retained trees. Large equipment shall be kept outside of the tree protection zones at all times.

**CITY OF MERCER ISLAND**  
 COMMUNITY PLANNING & DEVELOPMENT  
 9611 SE 36TH STREET | MERCER ISLAND, WA 98040  
 PHONE: 206.275.7605 | [www.mercer.gov](http://www.mercer.gov)

**TREE INVENTORY & REPLACEMENT SUBMITTAL INFORMATION**

**EXCEPTIONAL TREES**  
*Exceptional Trees*- means a tree or group of trees that because of its unique historical, ecological or aesthetic value constitutes an important community resource. A tree that is rare or exceptional by virtue of its size, species, condition, cultural/historical importance, age, and/or contribution as part of a tree grove. Trees with a diameter of more than 36 inches, or with a diameter that is equal to or greater than the diameter listed in the Exceptional Tree Table shown in MICC 19.16 under Tree, Exceptional.

List the total number of trees for each category and the tree identification numbers from the arborist report.

Number of trees 36" or greater	0
List tree numbers:	
Number of trees 24" or greater (including 36" or greater)	1
List tree numbers:	5
Number of trees from Exceptional Tree Table (MICC 19.16)	0
List tree numbers:	

**LARGE REGULATED TREES**  
*Large Regulated Trees*- means any tree with a diameter of 10 inches or more, and any tree that meets the definition of an Exceptional Tree.

Number of Large Regulated Trees on site	5	(A)
List tree numbers:	1,2,3,4,5	
Number of Large Regulated Trees on site proposed for removal	2	(B)
List tree numbers:	2,3	
<b>Percentage of trees to be retained ((A-B)/Ax100) note: must be at least 30%</b>	60	%

**RIGHT OF WAY TREES**  
*Right of Way Trees*- means a tree that is located in the street right of way adjacent to the project property.

Number of Large Regulated Trees in right of way	0
List tree numbers:	
Number of Large Regulated Trees in right of way proposed for removal	0

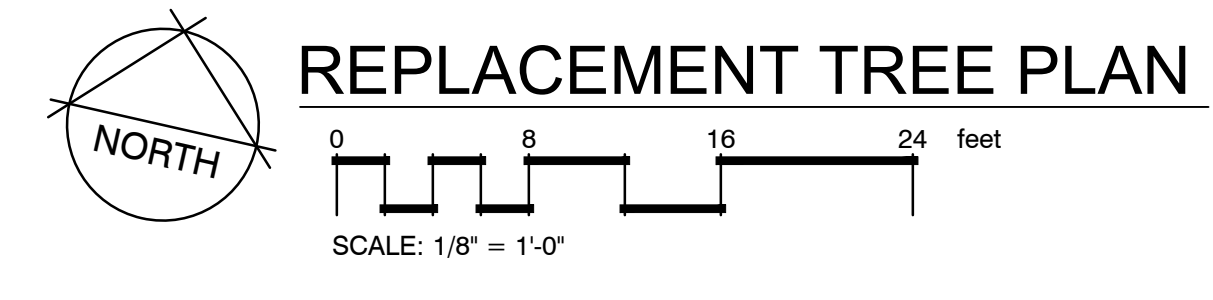
\\chfs1\share\CPD\FORMS\1\Current Forms\Engineering Forms\TreeInventoryReplacementSubmittalInformation.docx 1/2019

List tree numbers: \_\_\_\_\_  
 Reason for removal: \_\_\_\_\_

**TREE REPLACEMENT**

Tree replacement- removed trees must be replaced based on the ratio in the table below. Replacement trees shall be conifers at least six feet tall and or deciduous at least one and one-half inches in diameter at base.

Diameter of Removed Tree (measured 4.5' above ground)	Tree replacement Ratio	Number of Trees Proposed for Removal	Number of Tree Required for Replacement Based on Size/Type
Less than 10"	1	0	0
10" up to 24"	2	2	4
Greater than 24" up to 36"	3	0	0
Greater than 36" and any Exceptional Tree	6	0	0
<b>TOTAL TREE REPLACEMENTS</b>			<b>4</b>



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 Bothell, WA 98021  
[www.rootofdesign.com](http://www.rootofdesign.com)



PROJECT TITLE

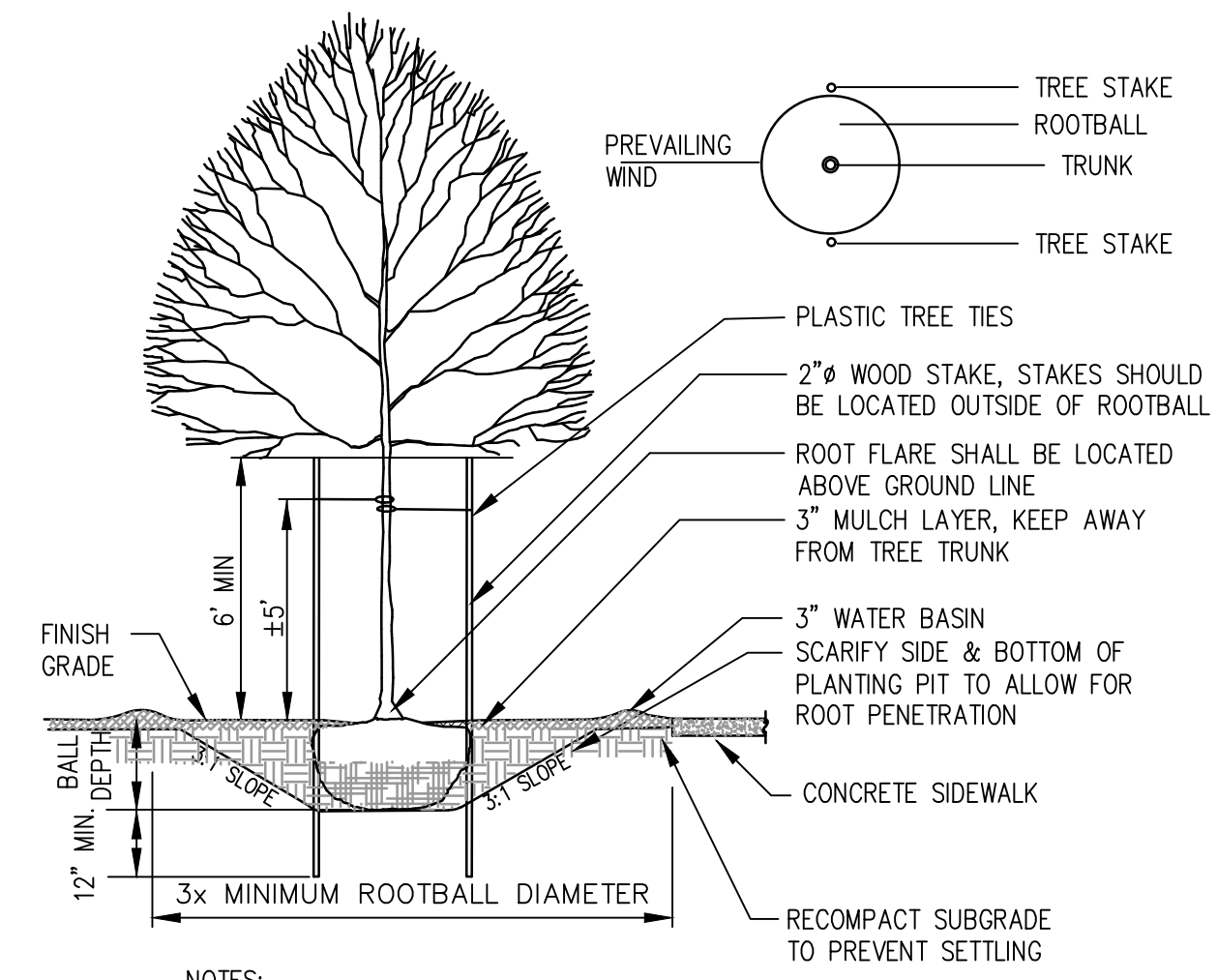
**REPLACEMENT TREE PLAN**

6221 83RD PL SE MERCER ISLAND, WA

DRAWN: ROD DATE: 05.26.22  
 REVISED: DATE:

1/8" = 1'-0"

**L1**

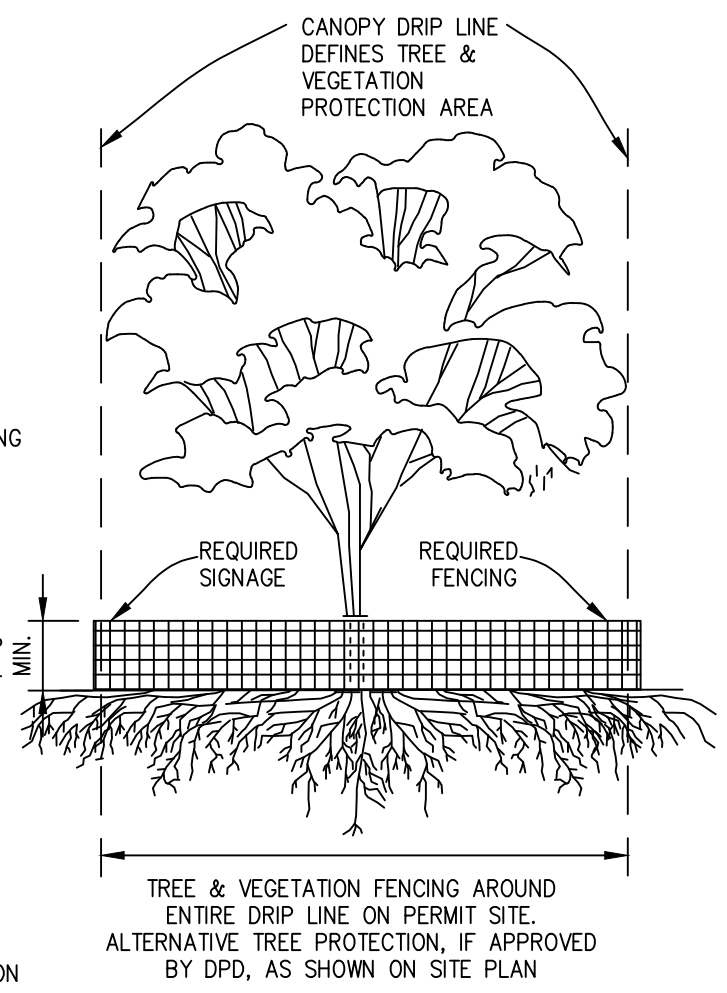


- NOTES:**
1. TREE PIT SHALL NOT BE LESS THAN (3) TIMES ROOT BALL DIA.
  2. CUT ALL TIES AND FOLD BACK BURLAP FROM UPPER 1/3 OF ROOT BALL
  3. REMOVE ALL PLASTIC AND TWINE
  4. TREE STAKES PERPENDICULAR TO THE PREVAILING WIND
  5. PLANT TREES 2" HIGHER THAN DEPTH GROWN IN NURSERY

**1** TYPICAL DECIDUOUS TREE PLANTING DETAIL  
NTS

**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 DPD 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

**2** TREE & VEGETATION PROTECTION

**LANDSCAPE NOTES**

1. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL OTHER SITE IMPROVEMENTS AND CONDITIONS PRIOR TO STARTING LANDSCAPE WORK.
2. CONTRACTOR SHALL USE CAUTION WHILE EXCAVATING TO AVOID DISTURBING ANY UTILITIES ENCOUNTERED. CONTRACTOR IS TO PROMPTLY ADVISE OWNER OF ANY DISTURBED UTILITIES. LOCATION SERVICE PHONE 1-800-424-5555.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPUTING SPECIFIC QUANTITIES OF GROUND COVERS AND PLANT MATERIALS UTILIZING ON-CENTER SPACING FOR PLANTS AS STATED ON THE LANDSCAPE PLAN AND MINIMUM PLANTING DISTANCES AS SPECIFIED BELOW IN THESE NOTES.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE QUANTITIES OF PLANTS THAT ARE REPRESENTED BY SYMBOLS ON THE DRAWINGS.
5. SUBGRADE IS TO BE WITHIN 1/2" OF ONE FOOT AS PROVIDED BY OTHERS. ALL PLANTING AREAS TO BE CLEARED OF ALL CONSTRUCTION MATERIAL AND ROCKS AND STICKS LARGER THAN 2" DIAMETER.
6. 6" DEPTH TOPSOIL IN BED AREAS AND 4" IN ALL LAWN AREAS.
7. 2" DEPTH BARK IN ALL BED AREAS.
8. ALL PLANT MATERIAL SHALL BE FERTILIZED WITH AGRO TRANSPLANT FERTILIZER 4-2-2 PER MANUFACTURER'S SPECIFICATIONS.
9. ALL PLANT MATERIAL SHALL CONFORM TO AAN STANDARDS FOR NURSERY STOCK, LATEST EDITION. ANY REPLACEMENTS MADE AT ONCE.
  - 9.A. GENERAL: ALL PLANT MATERIAL FURNISHED SHALL BE HEALTHY REPRESENTATIVES, TYPICAL OF THEIR SPECIES OF VARIETY AND SHALL HAVE A NORMAL GROWTH HABIT. THEY SHALL BE FULL, WELL BRANCHED, WELL PROPORTIONED, AND HAVE A VIGOROUS, WELL DEVELOPED ROOT SYSTEM. ALL PLANTS SHALL BE HARDY UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT.
  - 9.B. TREES, SHRUBS, AND GROUND COVER: QUANTITIES, SPECIES, AND VARIETIES, SIZES AND CONDITIONS AS SHOWN ON THE PLANTING PLAN. PLANTS TO BE HEALTHY, VIGOROUS, WELL FOLIATED WHEN IN LEAF. FREE OF DISEASE, INJURY, INSECTS, DECAY, HARMFUL DEFECTS, AND ALL WEEDS. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN APPROVAL FROM LANDSCAPE ARCHITECT OR OWNER.
10. ALUMINUM EDGING, PERMALOC OR APPROVED EQUAL, TO BE INSTALLED BETWEEN BARK AND COBBLE.

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Bothell, WA 98021  
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PROJECT TITLE

**LANDSCAPE DETAILS & NOTES**

6221 83RD PL SE MERCER ISLAND, WA

DRAWN ROD	DATE 05.26.22
REVISED	DATE

NTS

**L3**



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Coombes Residence

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Mercer Island

MUP #

BP #

Δ Date Description

06.02.2022 BP Submittal

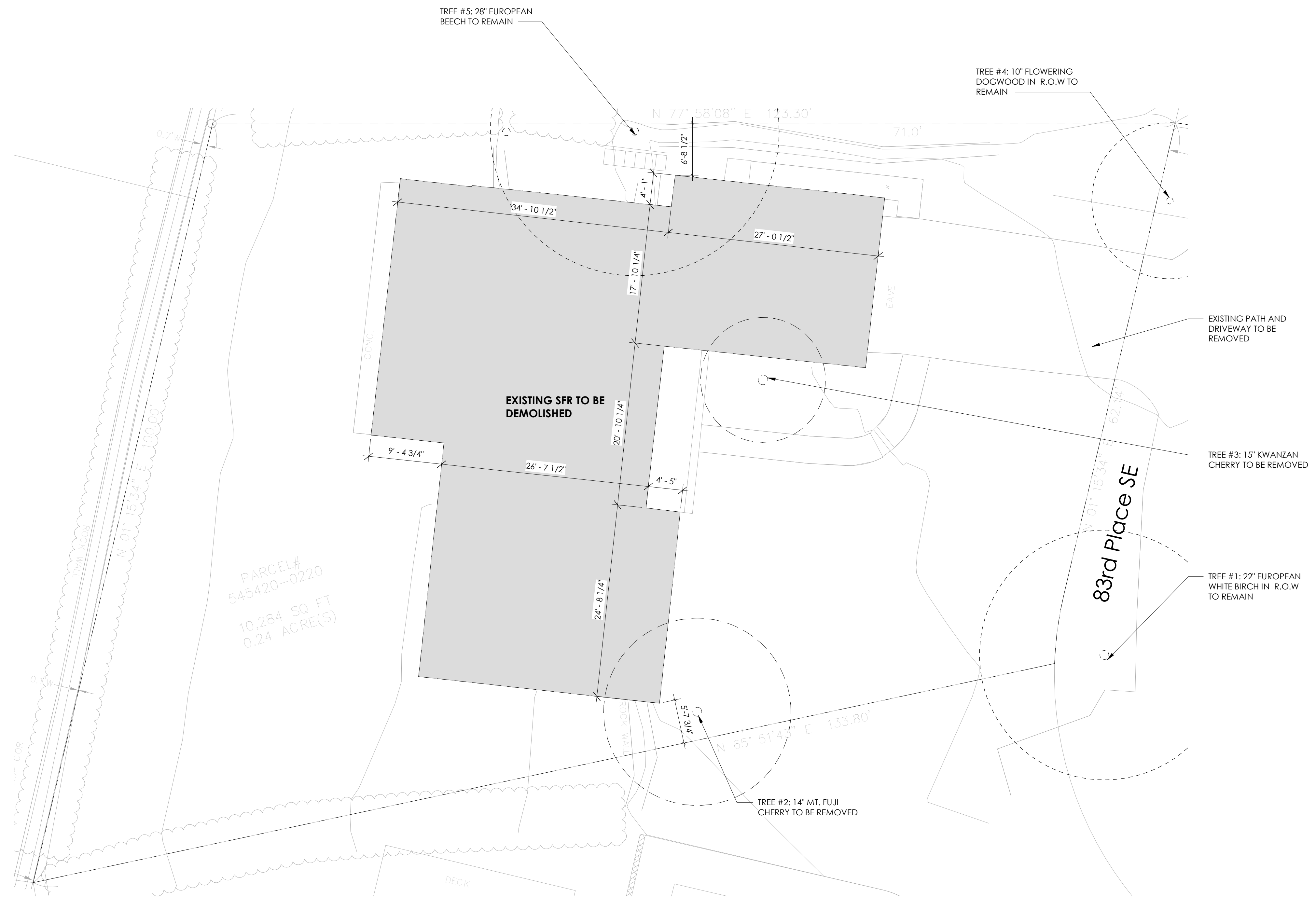
### DEMO SITE PLAN

Scale 1/8" = 1'-0"

Date 04/29/2022

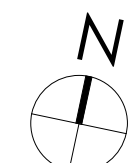
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Project Number JWA#611

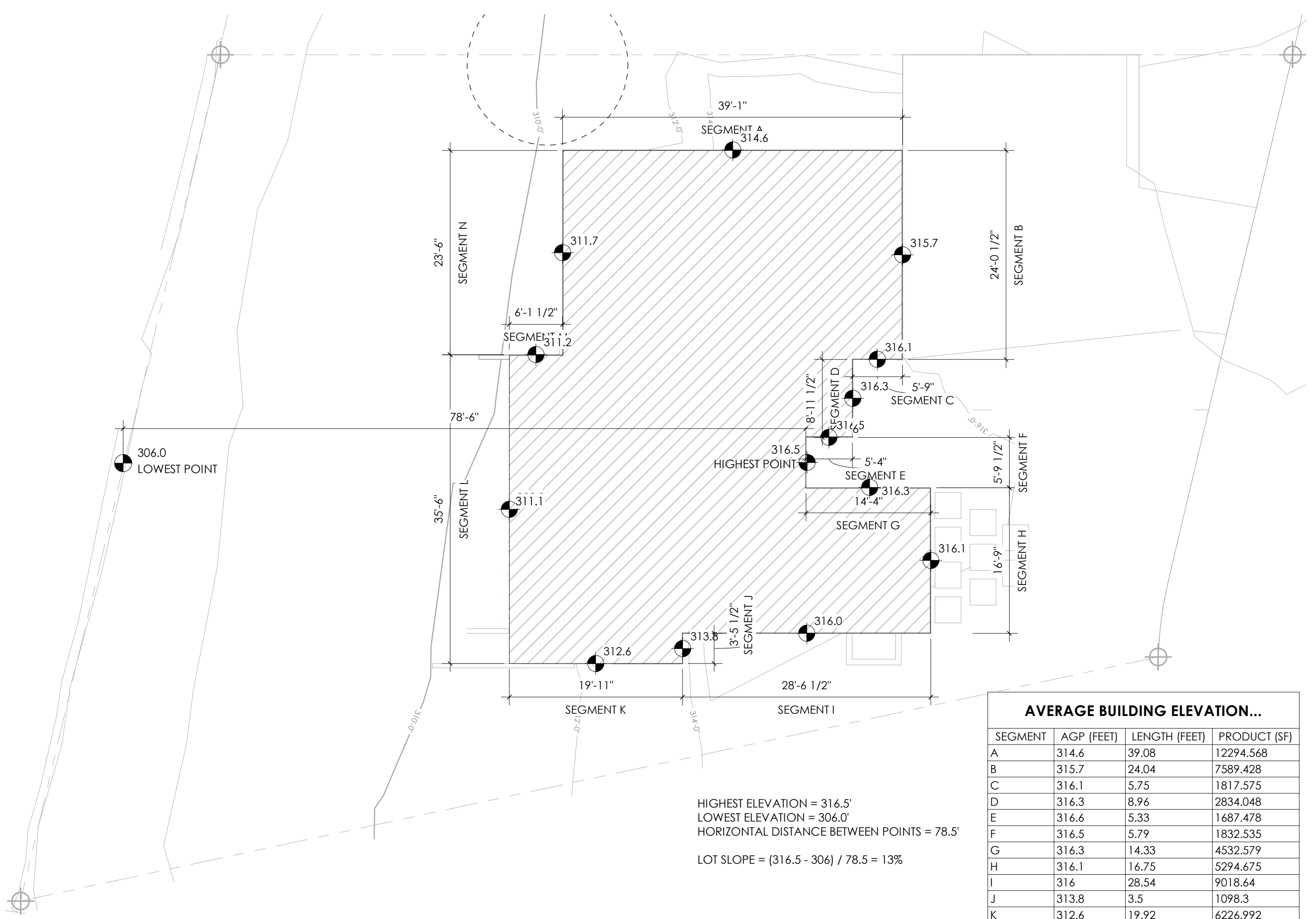


## 1 DEMO SITE PLAN

SCALE: 1/8" = 1'-0"



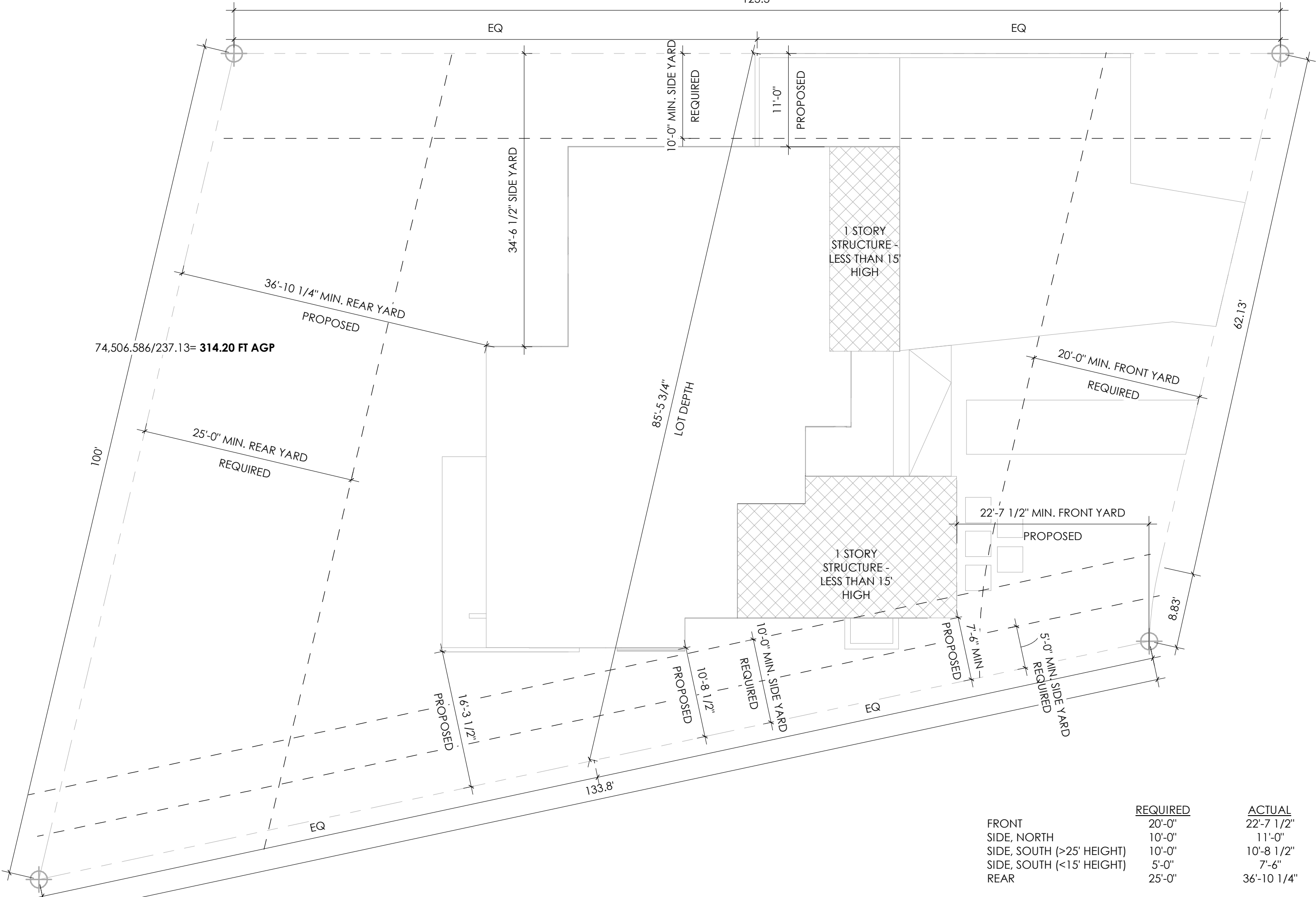
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SEGMENT	AGP (FEET)	LENGTH (FEET)	PRODUCT (SF)
A	314.6	39.08	12294.568
B	315.7	24.04	7589.428
C	316.1	5.75	1817.575
D	316.3	8.96	2834.048
E	316.6	5.33	1687.478
F	316.5	5.79	1832.535
G	316.3	14.33	4532.579
H	316.1	16.75	5294.675
I	316	28.54	9018.64
J	313.8	3.5	1098.3
K	312.6	19.92	6226.992
L	311.1	35.5	11044.05
M	311.2	6.14	1910.768
N	311.7	23.5	7324.95
	4404.6	237.13	74506.586

ABE = 74506.586 / 237.13 = 314.20'

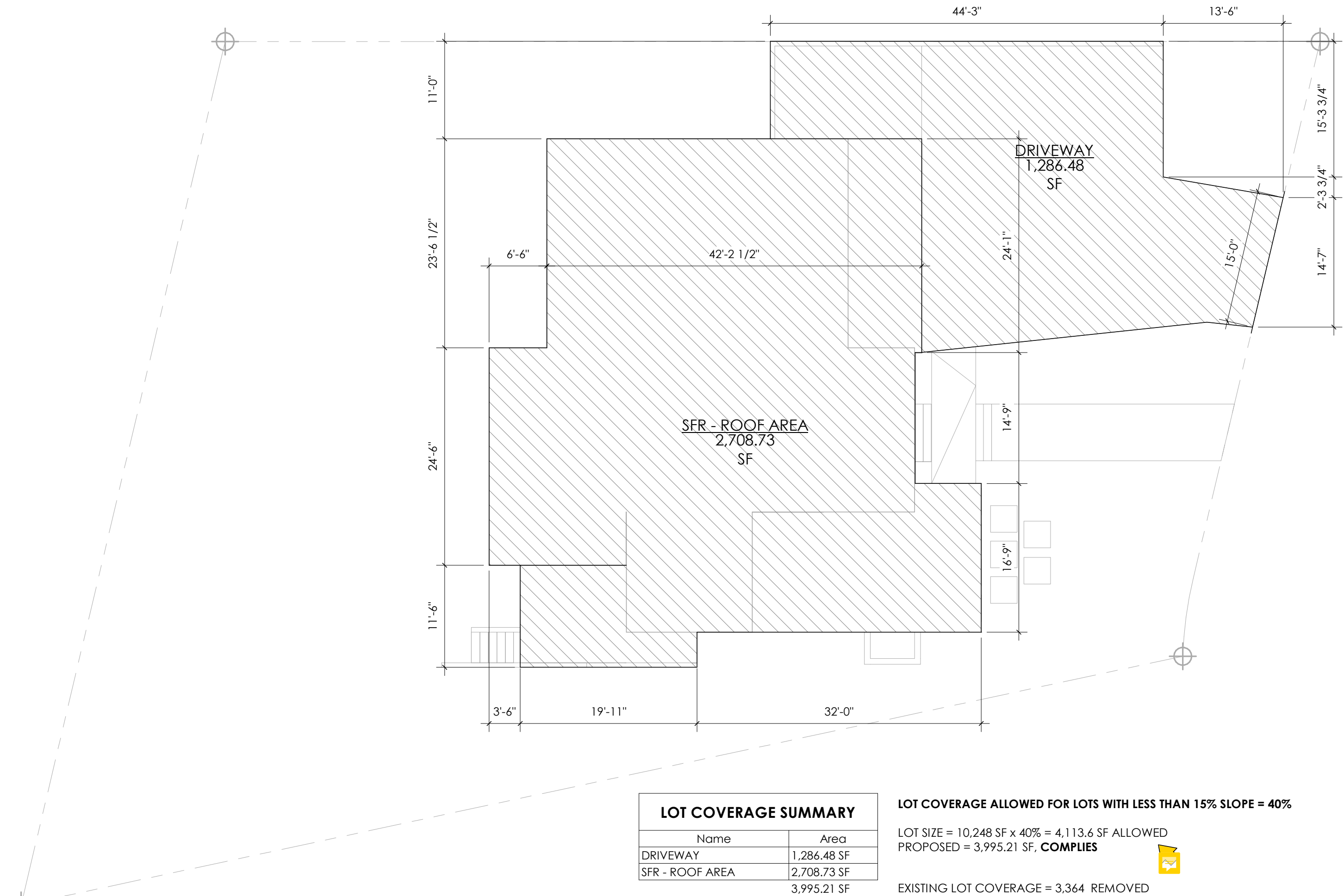
**1 Diagram Average Building Elevation**  
 SCALE: 1" = 10'-0"



	REQUIRED	ACTUAL
FRONT	20'-0"	22'-7 1/2"
SIDE, NORTH	10'-0"	11'-0"
SIDE, SOUTH (>25' HEIGHT)	10'-0"	10'-8 1/2"
SIDE, SOUTH (<15' HEIGHT)	5'-0"	7'-6"
REAR	25'-0"	36'-10 1/4"

TOTAL SIDE YARD WIDTH PER MIC 19.02.020.C.1c = 15'-0"  
 TOTAL PROPOSED MINIMUM SIDE YARD TOTAL = 18'-6"

**2 Diagram Setbacks**  
 SCALE: 1" = 10'-0"

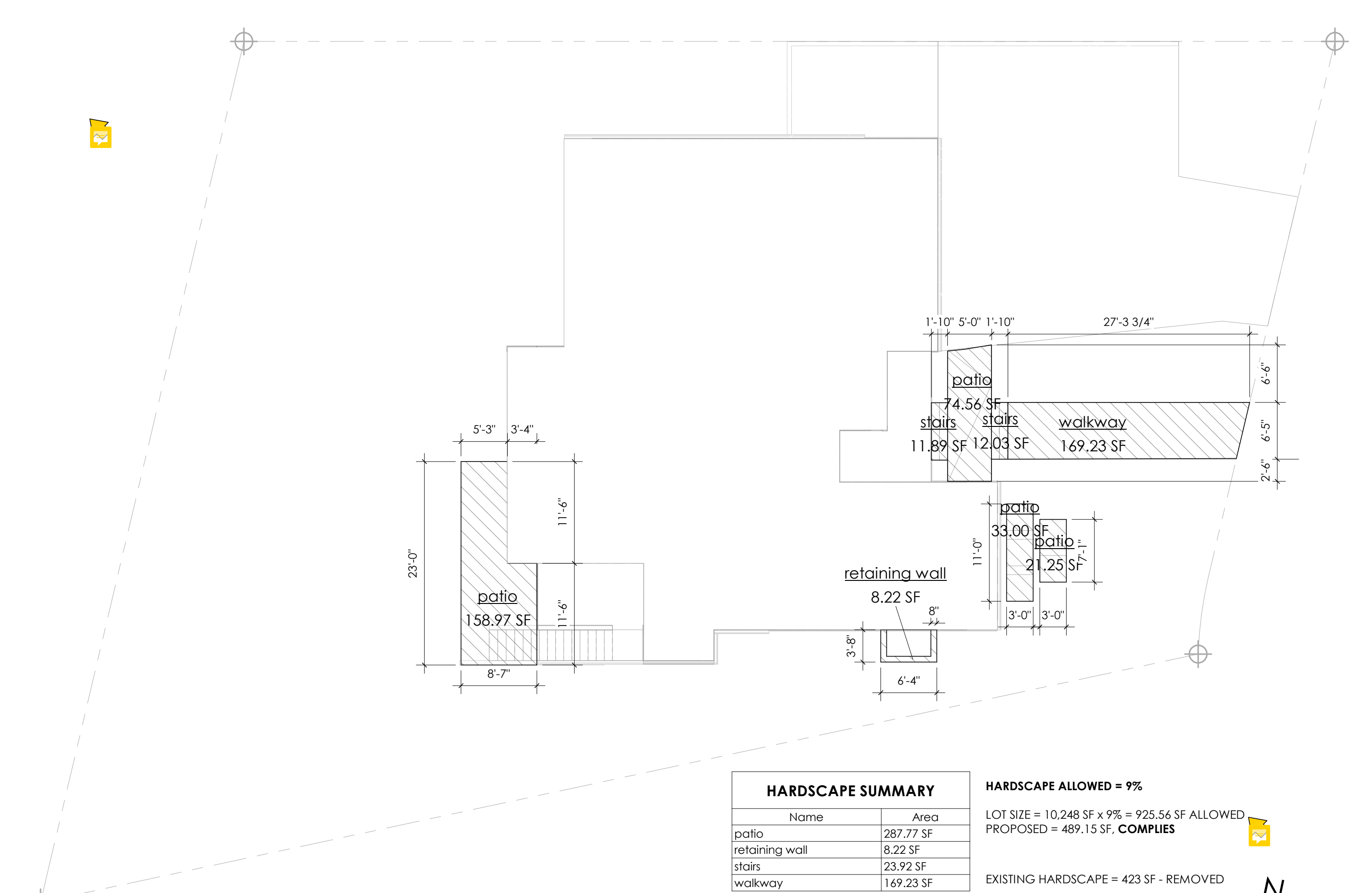


LOT COVERAGE SUMMARY	
Name	Area
DRIVEWAY	1,286.48 SF
SFR - ROOF AREA	2,708.73 SF
	3,995.21 SF

LOT COVERAGE ALLOWED FOR LOTS WITH LESS THAN 15% SLOPE = 40%  
 LOT SIZE = 10,248 SF x 40% = 4,113.6 SF ALLOWED  
 PROPOSED = 3,995.21 SF. **COMPLIES**

EXISTING LOT COVERAGE = 3,364 REMOVED

**3 Diagram Lot Coverage**  
 SCALE: 1" = 10'-0"



HARDSCAPE SUMMARY	
Name	Area
patio	287.77 SF
retaining wall	8.22 SF
stairs	23.92 SF
walkway	169.23 SF
	489.15 SF

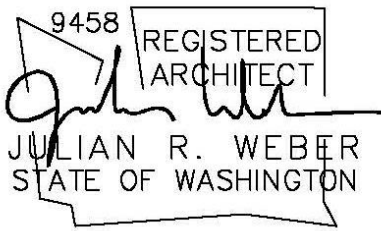
HARDSCAPE ALLOWED = 9%  
 LOT SIZE = 10,248 SF x 9% = 925.56 SF ALLOWED  
 PROPOSED = 489.15 SF. **COMPLIES**

EXISTING HARDSCAPE = 423 SF - REMOVED

**4 Diagram Hardscape**  
 SCALE: 1" = 10'-0"



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**COOMBS DEVELOPMENT**  
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 SEATTLE, WA 98116  
 P 206.420.7672

**Coombes Residence**  
 6221 83rd Pl SE  
 Mercer Island

MUP #	BP #	Date	Description
		06.02.2022	Critical Area Submittal
		06.02.2022	BP Submittal

**SITE DIAGRAMS**

Scale: 1" = 10'-0"  
 Date: 04/29/2022

**A1.2**

Project Number: **JWA#611**



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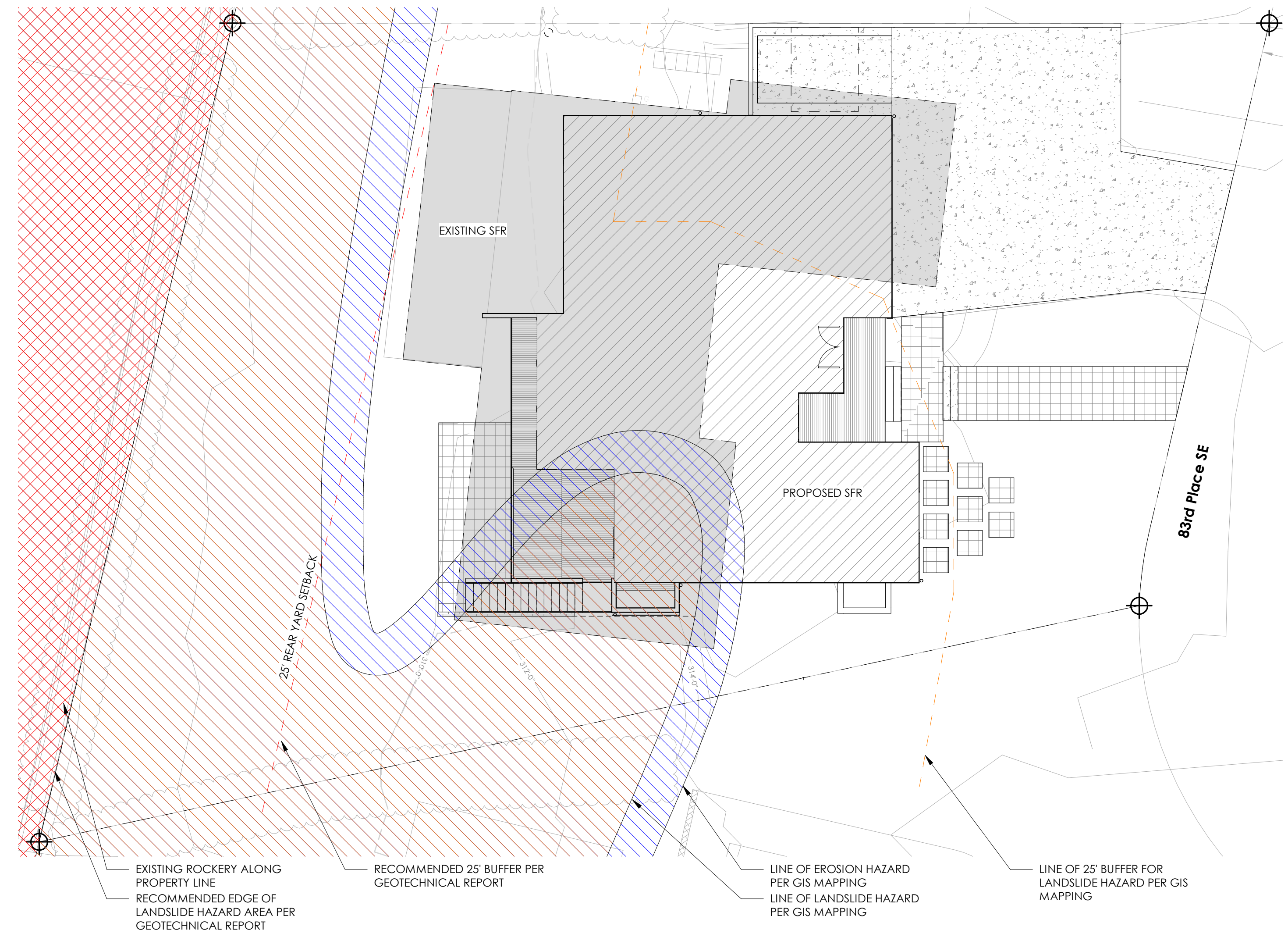
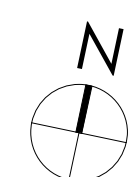
### CRITICAL AREAS

Scale 1" = 10'-0"

Date 04/29/2022

# A1.3

Project Number JWA#611



# 1

## CRITICAL AREAS

CRITICAL AREA REVIEW UNDER PERMIT #CAO22-013

SCALE: 1" = 10'-0"





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 Mercer Island

MUP #		
BP #		
Δ	Date	Description
	06.02.2022	BP Submittal

**FLOOR PLANS**

Scale 1/4" = 1'-0"  
 Date 04/29/2022

**A2.1**  
 Project Number **JWA#611**

6/22/2022 11:22:48 AM

**CRAWLSPACE VENTILATION**  
 WHOLE HOUSE VENTILATION TO CONFORM TO IRC R408

**CRAWLSPACE 1 AREA:** 285.5 SF  
 VENTILATION REQUIRED: (285.5 SF / 300) X 144 SI/SF = 137.04 SI

16" X 18" CRAWLSPACE VENT: 128 SI EA. - 25% REDUCTION = 96 SI each  
 TOTAL VENTILATION REQUIRED: 137.04 SI / 96 SI = 1.4 VENTS

PROVIDE: (2) 16" X 8" CRAWLSPACE VENTS

**CRAWLSPACE 2 AREA:** 128.5 SF  
 VENTILATION REQUIRED: (128.5 SF / 300) X 144 SI/SF = 61.68 SI

16" X 18" CRAWLSPACE VENT: 128 SI EA. - 25% REDUCTION = 96 SI each  
 TOTAL VENTILATION REQUIRED: 61.68 SI / 96 SI = 0.6 VENTS

PROVIDE: (2) 16" X 8" CRAWLSPACE VENTS

REQUIRED OPENINGS SHALL BE EVENLY SPACED TO PROVIDE CROSS VENTILATION OF THE SPACE EXCEPT ONE SIDE OF THE BUILDING SHALL BE PERMITTED TO HAVE NO VENTILATION OPENINGS.

**FLOOR PLAN NOTES:**

- \* ALL INTERIOR WALLS TO BE 2x4 @ 24" O.C. (U.N.O.)
- \* ALL EXTERIOR WALLS 2x6 PER STRUCTURAL
- \* HEADERS PER STRUCTURAL
- \* WINDOW SIZES ARE NOMINAL ROUGH OPENING, WIDTH AND HEIGHT.
- \* PROVIDE FIREBLOCKING AT ALL PLUMBING OPENINGS.
- \* PROVIDE SOLID BLOCKING OVER SUPPORTS.
- \* SEISMIC ANCHORAGE AND STRAPPING OF WATER HEATERS SHALL BE IN ACCORDANCE WITH SECTION 507.2 OF THE UNIFORM PLUMBING CODE
- \* PROVIDE OUTDOOR COMBUSTION AIR FOR FURNACE AND WATER HEATER PER IRC G2407.6.

**CARBON MONOXIDE DETECTORS**

**IRC R315.1 CARBON MONOXIDE ALARMS.**

FOR NEW CONSTRUCTION, AN APPROVED CARBON MONOXIDE ALARM SHALL BE INSTALLED OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS IN DWELLING UNITS AND ON EACH LEVEL OF THE DWELLING AND IN ACCORDANCE WITH THE MANUFACTURERS DIRECTIONS.

**SMOKE DETECTORS**

**IRC R314.3 SMOKE ALARMS**

SMOKE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:

1. IN EACH SLEEPING ROOM
2. OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS.
3. ON EACH ADDITIONAL STORY OF THE DWELLING, INCLUDING BASEMENTS, BUT NOT INCLUDING CRAWLSPACES AND UNINHABITABLE ATTICS, IN DWELLINGS OR DWELLING UNITS WITH SPLIT LEVELS AND WITHOUT AN INTERVENING DOOR BETWEEN ADJACENT LEVELS. A SMOKE ALARM INSTALLED ON THE UPPER FLOOR SHALL SUFFICE FOR THE ADJACENT LOWER LEVEL PROVIDED THAT THE LOWER LEVEL IS LESS THAN ONE FULL STORY BELOW THE UPPER LEVEL.
4. NOT LESS THAN 3 FEET HORIZONTALLY FROM THE DOOR OR OPENING OF A BATHROOM THAT CONTAINS A BATHTUB OR SHOWER UNLESS THIS WOULD PREVENT PLACEMENT OF A SMOKE ALARM REQUIRED BY THIS SECTION.

SMOKE DETECTORS TO BE HARDWIRED, INTERCONNECTED, WITH BATTERY BACKUP PER IRC R314.4.

**VENTILATION SCHEDULE**  
 WHOLE HOUSE VENTILATION TO CONFORM TO IRC SECTION M1505.4

1	100 CFM ON SWITCH	MECHANICAL VENTILATING SYSTEMS IN BATHROOMS, LAUNDRY ROOMS AND SIMILAR ROOMS SHOULD EXHAUST DIRECTLY TO THE OUTSIDE. THE POINT OF DISCHARGE OF EXHAUST AIR SHALL BE AT LEAST THREE FEET FROM ANY OPENING INTO THE BUILDING PER IRC M1505.4.3(1)
2	50 CFM ON SWITCH	
3	90 CFM CONTINUOUSLY OPERATING WHOLE HOUSE FAN, SIZED PER TABLE IRC M1505.4.3(1)	

THE AIR REMOVED BY EVERY MECHANICAL EXHAUST SYSTEM SHALL BE DISCHARGED TO THE OUTDOORS IN ACCORDANCE WITH SECTION M1504.3.

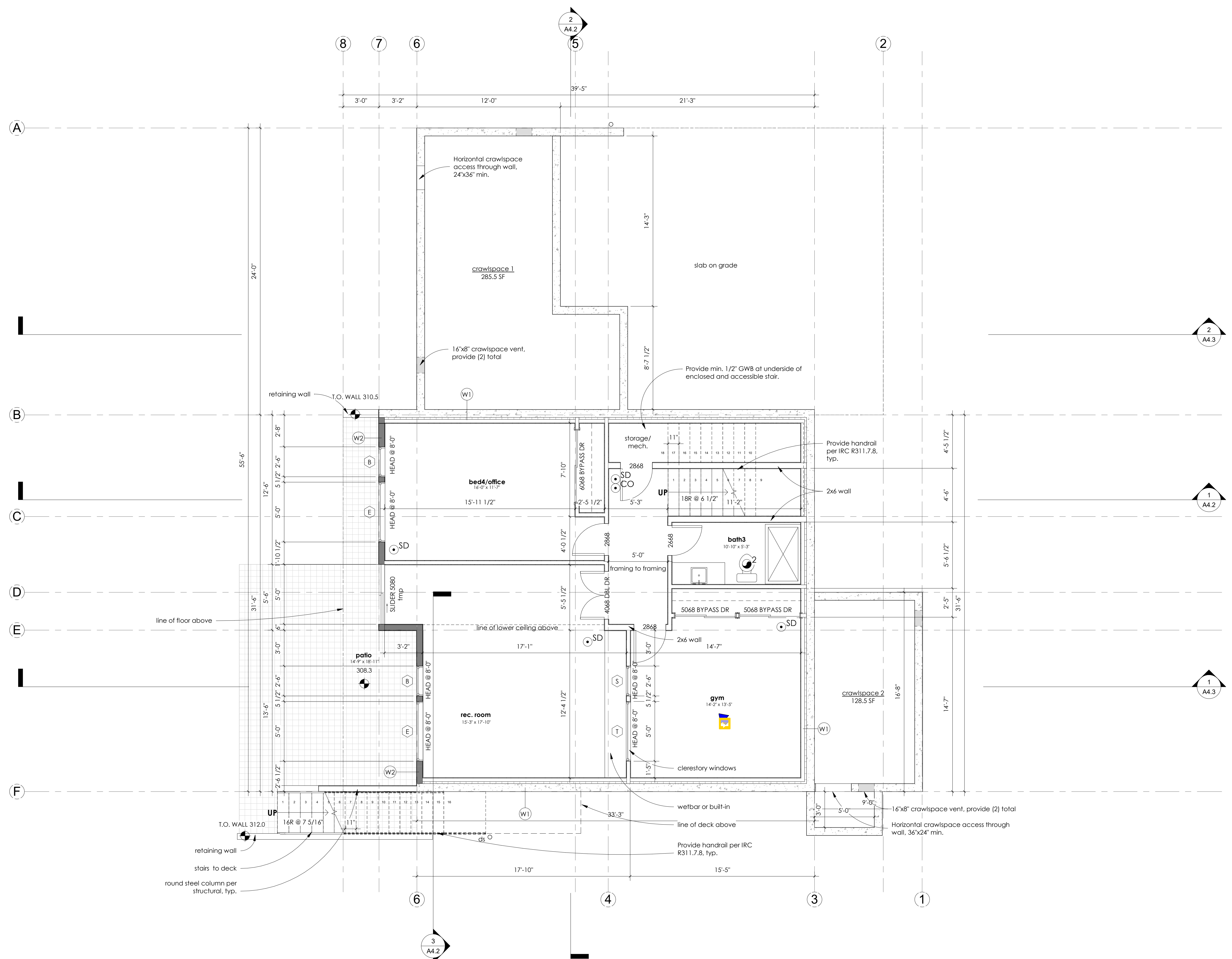
LOCAL EXHAUST SYSTEMS SHALL BE DESIGNED TO HAVE THE CAPACITY TO EXHAUST THE MINIMUM AIRFLOW RATE DETERMINED IN ACCORDANCE WITH TABLE M1505.4.4.

**Marketable AREA (PROPOSED)**

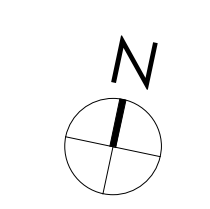
FOR REFERENCE ONLY

Basement	1,123 SF
Level 1	1,383 SF
Level 2	1,546 SF
TOTAL:	4,051 SF

608 SF Garage  
 262 SF Covered deck



**1 Basement**  
 SCALE: 1/4" = 1'-0"  
 \* NOT CEILING HEIGHT GREATER THAN 10 FT. PLEASE REFERENCE SECTIONS A4.2-3.



**GARAGE NOTES:**

\* THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN 1/2" GWB APPLIED TO THE GARAGE SIDE. GARAGES BENEATH HABITABLE ROOMS SHALL BE SEPARATED FROM ALL HABITABLE ROOMS ABOVE BY NOT LESS THAN 5/8" TYPE X GYPSUM BOARD OR EQUIVALENT. WHERE THE SEPARATION IS A FLOOR-CEILING ASSEMBLY, THE STRUCTURE SUPPORTING THE SEPARATION SHALL ALSO BE PROTECTED BY NOT LESS THAN 1/2-INCH GYPSUM BOARD OR EQUIVALENT. SRC R302.6

\* ...OPENINGS BETWEEN THE GARAGE AND RESIDENCE SHALL BE EQUIPPED WITH SOLID WOOD DOORS NOT LESS THAN 1 3/8" IN THICKNESS, SOLID OR HONEYCOMB CORE STEEL DOORS NOT LESS THAN 1 3/8" THICK, OR 20-MINUTE FIRE-RATED DOORS. SRC 302.5.1

\* DUCTS IN THE GARAGE AND DUCTS PENETRATING THE WALLS OR CEILINGS SEPARATING THE DWELLING FROM THE GARAGE SHALL BE CONSTRUCTED OF A MINIMUM NO. 26 GAGE SHEET STEEL OR OTHER APPROVED MATERIALS AND SHALL HAVE NO OPENINGS INTO THE GARAGE. IRC R302.5.2

\* SEISMIC ANCHORAGE AND STRAPPING OF WATER HEATERS SHALL BE IN ACCORDANCE WITH SECTION 507.2 OF THE UNIFORM PLUMBING CODE.

**FLOOR PLAN NOTES:**

- \* ALL INTERIOR WALLS TO BE 2x4 @ 24" O.C. (U.N.O.)
- \* ALL EXTERIOR WALLS 2x6 PER STRUCTURAL
- \* HEADERS PER STRUCTURAL
- \* WINDOW SIZES ARE NOMINAL ROUGH OPENING, WIDTH AND HEIGHT.
- \* PROVIDE FIREBLOCKING AT ALL PLUMBING OPENINGS.
- \* PROVIDE SOLID BLOCKING OVER SUPPORTS.
- \* SEISMIC ANCHORAGE AND STRAPPING OF WATER HEATERS SHALL BE IN ACCORDANCE WITH SECTION 507.2 OF THE UNIFORM PLUMBING CODE
- \* PROVIDE OUTDOOR COMBUSTION AIR FOR FURNACE AND WATER HEATER PER IRC G2407.6.

**CARBON MONOXIDE DETECTORS**

**IRC R315.1 CARBON MONOXIDE ALARMS.**

FOR NEW CONSTRUCTION, AN APPROVED CARBON MONOXIDE ALARM SHALL BE INSTALLED OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS IN DWELLING UNITS AND ON EACH LEVEL OF THE DWELLING AND IN ACCORDANCE WITH THE MANUFACTURERS DIRECTIONS.

**SMOKE DETECTORS**

**IRC R314.3 SMOKE ALARMS**

SMOKE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:  
 1. IN EACH SLEEPING ROOM  
 2. OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS.  
 3. ON EACH ADDITIONAL STORY OF THE DWELLING, INCLUDING BASEMENTS, BUT NOT INCLUDING CRAWLSPACES AND UNINHABITABLE ATTICS. IN DWELLINGS OR DWELLING UNITS WITH SPLIT LEVELS AND WITHOUT AN INTERVENING DOOR BETWEEN ADJACENT LEVELS, A SMOKE ALARM INSTALLED ON THE UPPER FLOOR SHALL SUFFICE FOR THE ADJACENT LOWER LEVEL PROVIDED THAT THE LOWER LEVEL IS LESS THAN ONE FULL STORY BELOW THE UPPER LEVEL.  
 4. NOT LESS THAN 3 FEET HORIZONTALLY FROM THE DOOR OR OPENING OF A BATHROOM THAT CONTAINS A BATHTUB OR SHOWER UNLESS THIS WOULD PREVENT PLACEMENT OF A SMOKE ALARM REQUIRED BY THIS SECTION.

SMOKE DETECTORS TO BE HARDWIRED, INTERCONNECTED, WITH BATTERY BACKUP PER IRC R314.4.

**HEAT DETECTORS**

A HEAT DETECTOR OR HEAT ALARM RATED FOR THE AMBIENT OUTDOOR TEMPERATURES AND HUMIDITY SHALL BE INSTALLED IN NEW GARAGES THAT ARE ATTACHED TO OR LOCATED UNDER NEW AND EXISTING DWELLINGS. HEAT DETECTORS AND HEAT ALARMS SHALL BE INSTALLED IN A CENTRAL LOCATION AND IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

HEAT DETECTORS AND HEAT ALARMS SHALL BE CONNECTED TO AN ALARM OR A SMOKE ALARM THAT IS INSTALLED IN THE DWELLING. ALARMS AND SMOKE ALARMS THAT ARE INSTALLED FOR THIS PURPOSE SHALL BE LOCATED IN A HALLWAY, ROOM, OR OTHER LOCATION THAT WILL PROVIDE OCCUPANT NOTIFICATION.

**VENTILATION SCHEDULE**

WHOLE HOUSE VENTILATION TO CONFORM TO IRC SECTION M1505.4

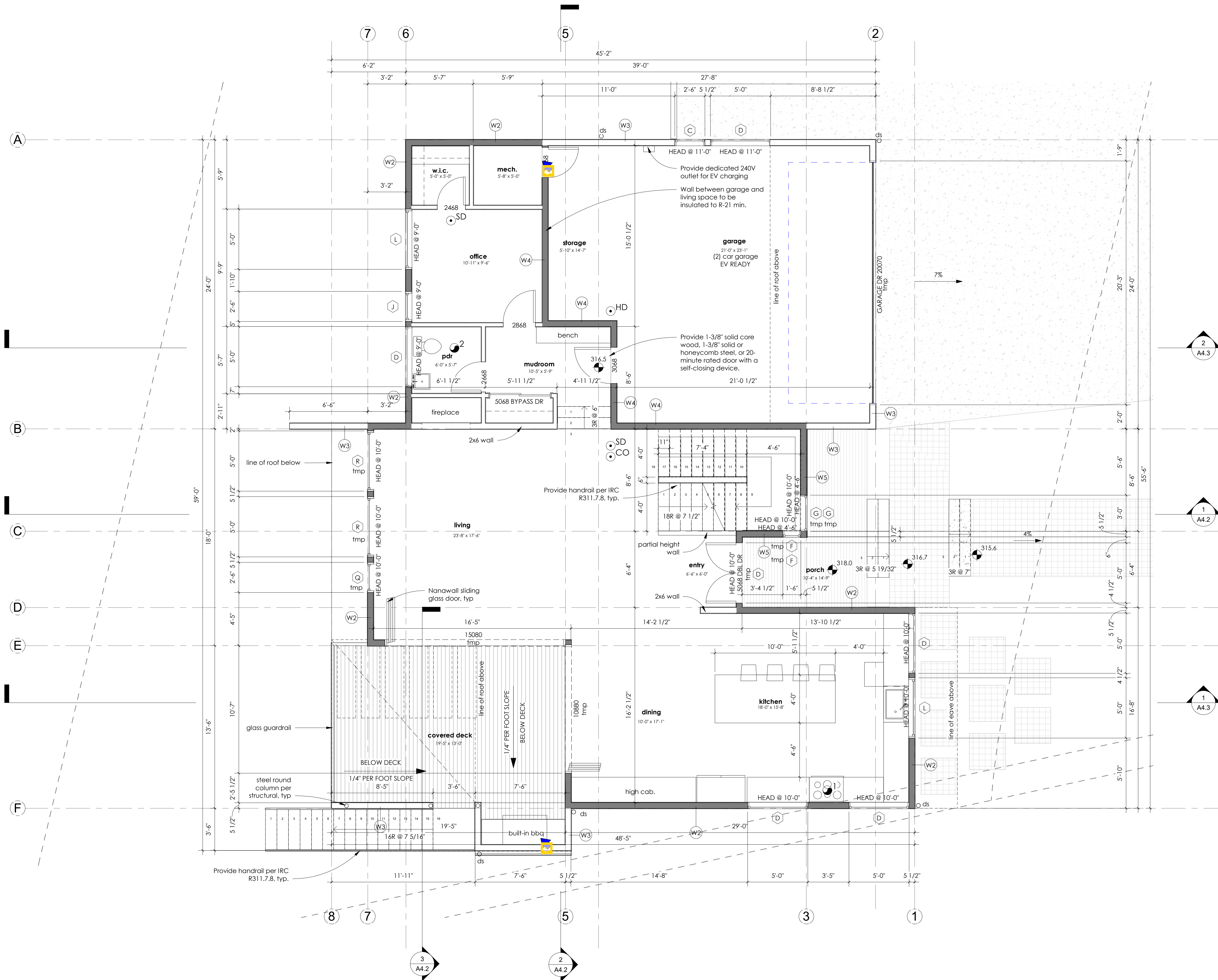
- 1 100 CFM ON SWITCH MECHANICAL VENTILATING SYSTEMS IN BATHROOMS, LAUNDRY ROOMS AND SIMILAR ROOMS SHOULD EXHAUST DIRECTLY TO THE OUTSIDE. THE POINT OF DISCHARGE OF EXHAUST AIR SHALL BE AT LEAST THREE FEET FROM ANY OPENING INTO THE BUILDING PER IRC M1504.3
- 2 50 CFM ON SWITCH
- 3 90 CFM CONTINUOUSLY OPERATING WHOLE HOUSE FAN, SIZED PER TABLE IRC M1505.4.3(1)

THE AIR REMOVED BY EVERY MECHANICAL EXHAUST SYSTEM SHALL BE DISCHARGED TO THE OUTDOORS IN ACCORDANCE WITH SECTION M1504.3.

LOCAL EXHAUST SYSTEMS SHALL BE DESIGNED TO HAVE THE CAPACITY TO EXHAUST THE MINIMUM AIRFLOW RATE DETERMINED IN ACCORDANCE WITH TABLE M1505.4.4.

**ROOF DECK VENTILATION**

UNVENTED ASSEMBLY TO COMPLY WITH IRC R806.5



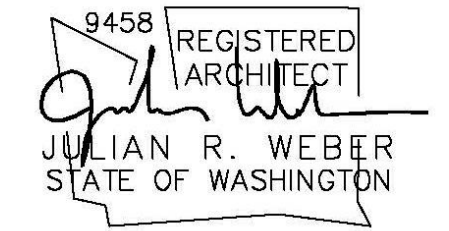
**1 Main Level**

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

\* NOT CEILING HEIGHT GREATER THAN 10 FT. PLEASE REFERENCE SECTIONS A4.2-3.



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 P 206.420.7672

**Coombes Residence**  
 6221 83rd Pl SE  
 Mercer Island

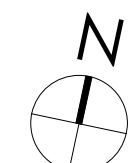
MUP #	BP #	Date	Description
		06.02.2022	BP Submittal

**FLOOR PLANS**

Scale: 1/4" = 1'-0"  
 Date: 04/29/2022

**A2.2**

Project Number: **JWA#611**





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BP #	
<b>Δ</b>	<b>Date</b>
	<b>Description</b>
	06.02.2022 BP Submittal

**FLOOR PLANS**

Scale 1/4" = 1'-0"  
 Date 04/29/2022

**A2.3**

Project Number **JWA#611**

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- FLOOR PLAN NOTES:**
- \* ALL INTERIOR WALLS TO BE 2x4 @ 24" O.C. (I.N.O.)
  - \* ALL EXTERIOR WALLS 2x6 PER STRUCTURAL
  - \* HEADERS PER STRUCTURAL
  - \* WINDOW SIZES ARE NOMINAL ROUGH OPENING, WIDTH AND HEIGHT.
  - \* PROVIDE FIREBLOCKING AT ALL PLUMBING OPENINGS.
  - \* PROVIDE SOLID BLOCKING OVER SUPPORTS.
  - \* SEISMIC ANCHORAGE AND STRAPPING OF WATER HEATERS SHALL BE IN ACCORDANCE WITH SECTION 507.2 OF THE UNIFORM PLUMBING CODE
  - \* PROVIDE OUTDOOR COMBUSTION AIR FOR FURNACE AND WATER HEATER PER IRC G2407.6.

**SMOKE DETECTORS**

**IRC R314.3 SMOKE ALARMS**

SMOKE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:

1. IN EACH SLEEPING ROOM
2. OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS.
3. ON EACH ADDITIONAL STORY OF THE DWELLING, INCLUDING BASEMENTS, BUT NOT INCLUDING CRAWLSPACES AND UNINHABITABLE ATTICS, IN DWELLINGS OR DWELLING UNITS WITH SPLIT LEVELS AND WITHOUT AN INTERVENING DOOR BETWEEN ADJACENT LEVELS. A SMOKE ALARM INSTALLED ON THE UPPER FLOOR SHALL SUFFICE FOR THE ADJACENT LOWER LEVEL PROVIDED THAT THE LOWER LEVEL IS LESS THAN ONE FULL STORY BELOW THE UPPER LEVEL.
4. NOT LESS THAN 3 FEET HORIZONTALLY FROM THE DOOR OR OPENING OF A BATHROOM THAT CONTAINS A BATHTUB OR SHOWER UNLESS THIS WOULD PREVENT PLACEMENT OF A SMOKE ALARM REQUIRED BY THIS SECTION.

SMOKE DETECTORS TO BE HARDWIRED, INTERCONNECTED, WITH BATTERY BACKUP PER IRC R314.4.

**CARBON MONOXIDE DETECTORS**

**IRC R315.1 CARBON MONOXIDE ALARMS.**

FOR NEW CONSTRUCTION, AN APPROVED CARBON MONOXIDE ALARM SHALL BE INSTALLED OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS IN DWELLING UNITS AND ON EACH LEVEL OF THE DWELLING AND IN ACCORDANCE WITH THE MANUFACTURERS DIRECTIONS.

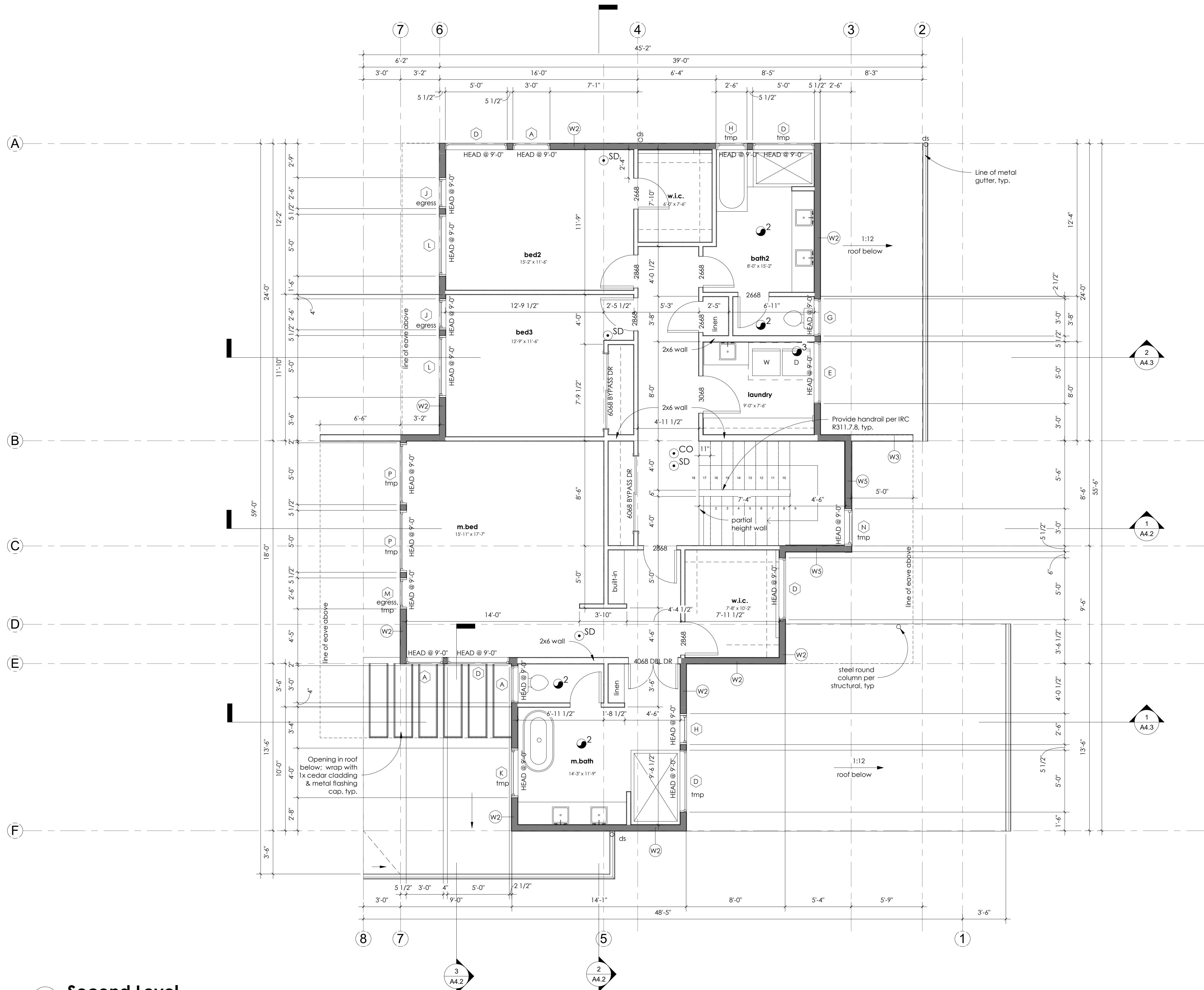
**VENTILATION SCHEDULE**

WHOLE HOUSE VENTILATION TO CONFORM TO IRC SECTION M1505.4

100 CFM ON SWITCH	MECHANICAL VENTILATING SYSTEMS IN BATHROOMS, LAUNDRY ROOMS AND SIMILAR ROOMS SHOULD EXHAUST DIRECTLY TO THE OUTSIDE. THE POINT OF DISCHARGE OF EXHAUST AIR SHALL BE AT LEAST THREE FEET FROM ANY OPENING INTO THE BUILDING PER IRC M1504.3
50 CFM ON SWITCH	
90 CFM CONTINUOUSLY OPERATING WHOLE HOUSE FAN, SIZED PER TABLE IRC M1505.4.3(1)	

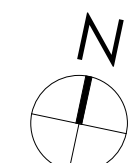
THE AIR REMOVED BY EVERY MECHANICAL EXHAUST SYSTEM SHALL BE DISCHARGED TO THE OUTDOORS IN ACCORDANCE WITH SECTION M1504.3.

LOCAL EXHAUST SYSTEMS SHALL BE DESIGNED TO HAVE THE CAPACITY TO EXHAUST THE MINIMUM AIRFLOW RATE DETERMINED IN ACCORDANCE WITH TABLE M1505.4.4.



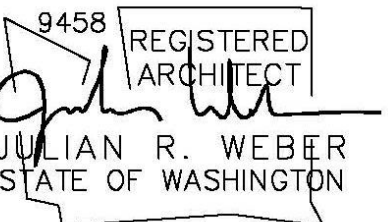
**1 Second Level**  
 SCALE: 1/4" = 1'-0"

\* NOT CEILING HEIGHT GREATER THAN 10 FT. PLEASE REFERENCE SECTIONS A4.2-3.





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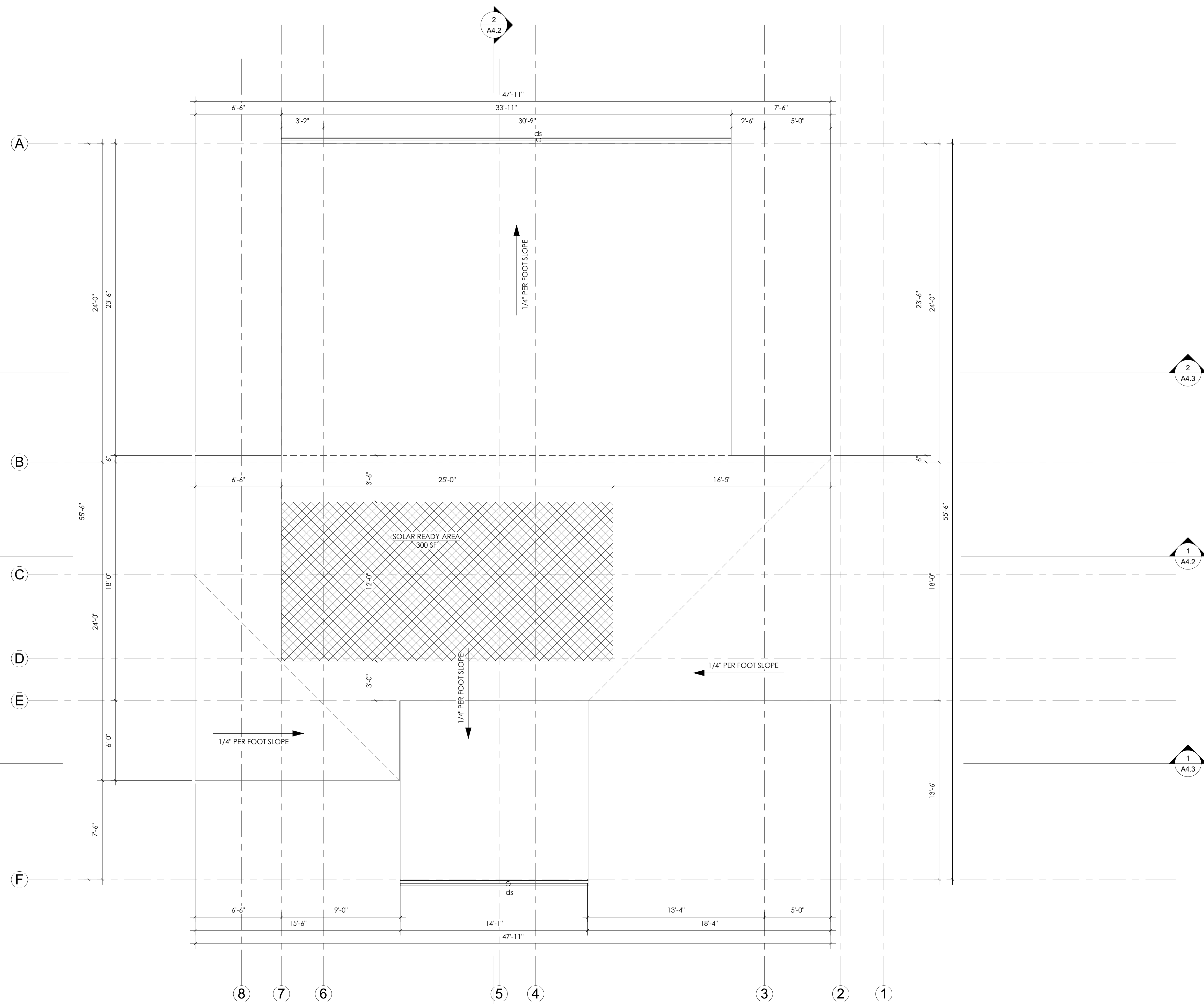
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BP #	
<b>Δ</b>	<b>Date</b>
	<b>Description</b>
	06.02.2022 BP Submittal

**FLOOR PLANS**

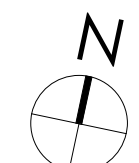
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 Date **04/29/2022**

**A2.4**

Project Number **JWA#611**



**1 Roof plan**  
 SCALE: 1/4" = 1'-0"



**SOLAR-READY PROVISIONS**

IRC T101: SOLAR-READY PROVISIONS

T101.1 NEW ONE AND TWO FAMILY DWELLINGS SHALL BE PROVIDED WITH A SOLAR-READY ZONE OF NOT LESS THAN 300 SQUARE FEET FOR EACH DWELLING UNIT. TOWNHOUSES SHALL BE PROVIDED WITH A SOLAR-READY ZONE OF NOT LESS THAN 150 SQUARE FEET FOR EACH DWELLING UNIT.

EXCEPTION: THE FOLLOWING DO NOT REQUIRE SOLAR-READY ZONES:

- ONE AND TWO FAMILY DWELLING UNITS WITH LESS THAN 600 SF OF QUALIFYING ROOF AREA CONFORMING TO THE REQUIREMENTS OF SECTION T101.1.1.
- INDIVIDUAL UNITS WITHIN TOWNHOUSE BUILDINGS THAT HAVE LESS THAN 300 SQUARE FEET OF QUALIFYING ROOF AREA PER UNIT CONFORMING TO THE REQUIREMENTS OF SECTION T101.1.1.
- BUILDINGS WITH PERMANENTLY INSTALLED ON-SITE RENEWABLE ENERGY SYSTEMS.

T101.1.1 QUALIFYING ROOF AREA INCLUDES ALL ROOF AREAS OTHER THAN THE FOLLOWING:

- ROOF AREAS ORIENTED WITHIN 45 DEGREES OF TRUE NORTH AND HAVING SLOPES GREATER THAN 2:12
- ROOF AREAS SHADED BY EXISTING LANDFORMS, STRUCTURES OR TREES FOR MORE THAN 70 PERCENT OF THE DAYLIGHT HOURS ANNUALLY.
- ROOF AREAS CONSISTING OF SKYLIGHTS, OCCUPIED DECKS, OR PLANTED AREAS
- ACCESS OR SET-BACK AREAS REQUIRED BY THIS CODE OR THE APPLICABLE PROVISIONS OF THE IFC.

T103.1.1. SOLAR-READY ZONE AREA. NO SOLAR-READY ZONE MAY BE COMPRISED OF ONE SINGLE AREA OR OF MULTIPLE AREAS. NO SOLAR-READY ZONE SHALL BE LESS THAN 5 FEET IN ANY DIMENSION NOR LESS THAN 80 SF OF CONTIGUOUS AREA

6/22/2022 11:22:51 AM

MATERIAL KEY	
1.	VERTICAL LAP SIDING 4" REVEAL - PAINTED BLACK
2.	4X8 HARDIE PANEL - PAINTED BLACK
3.	VENEER STONE
4.	OPEN JOINT TIMBER BOARDING RAINSCREEN
5.	8X4 HARDIE PANEL - PAINTED WHITE
6.	CEDAR T&G



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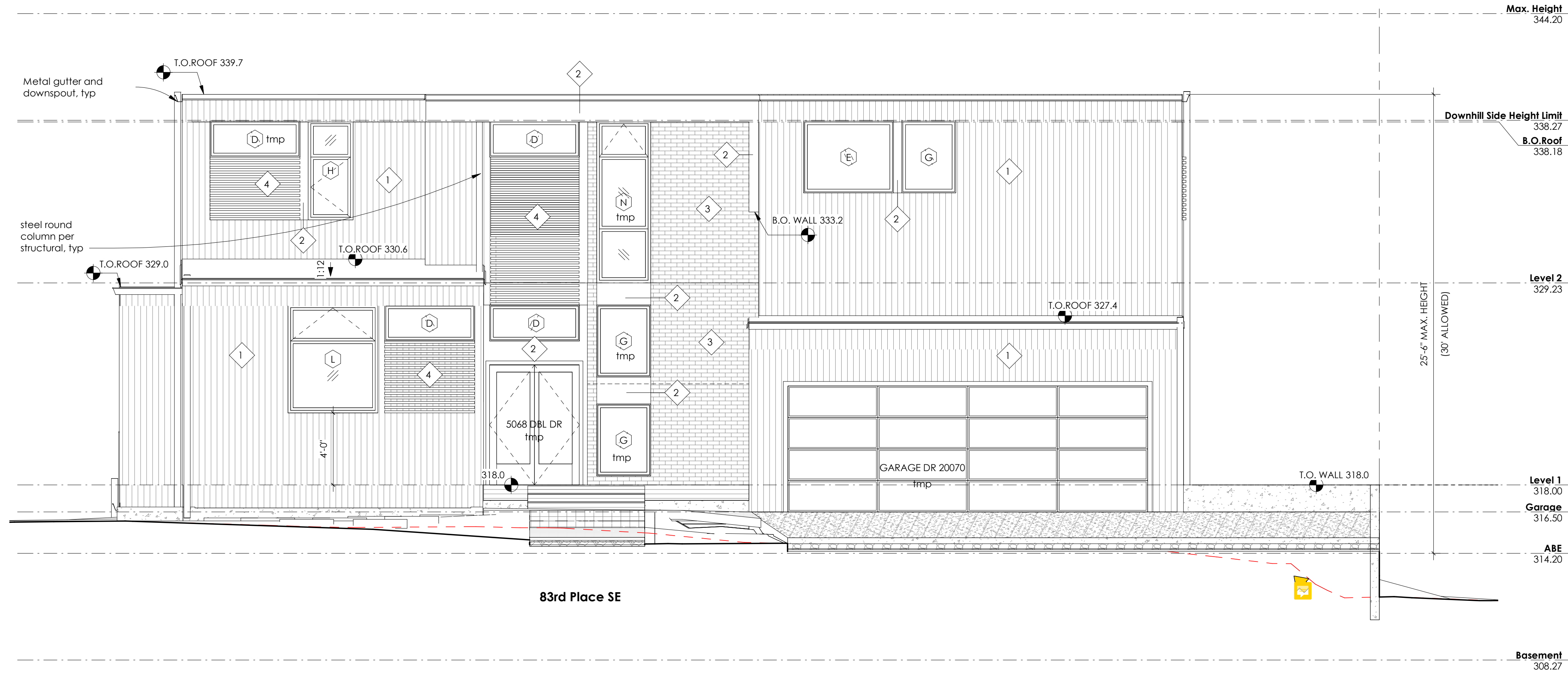
MUP #	BP #	Date	Description
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**ELEVATIONS**

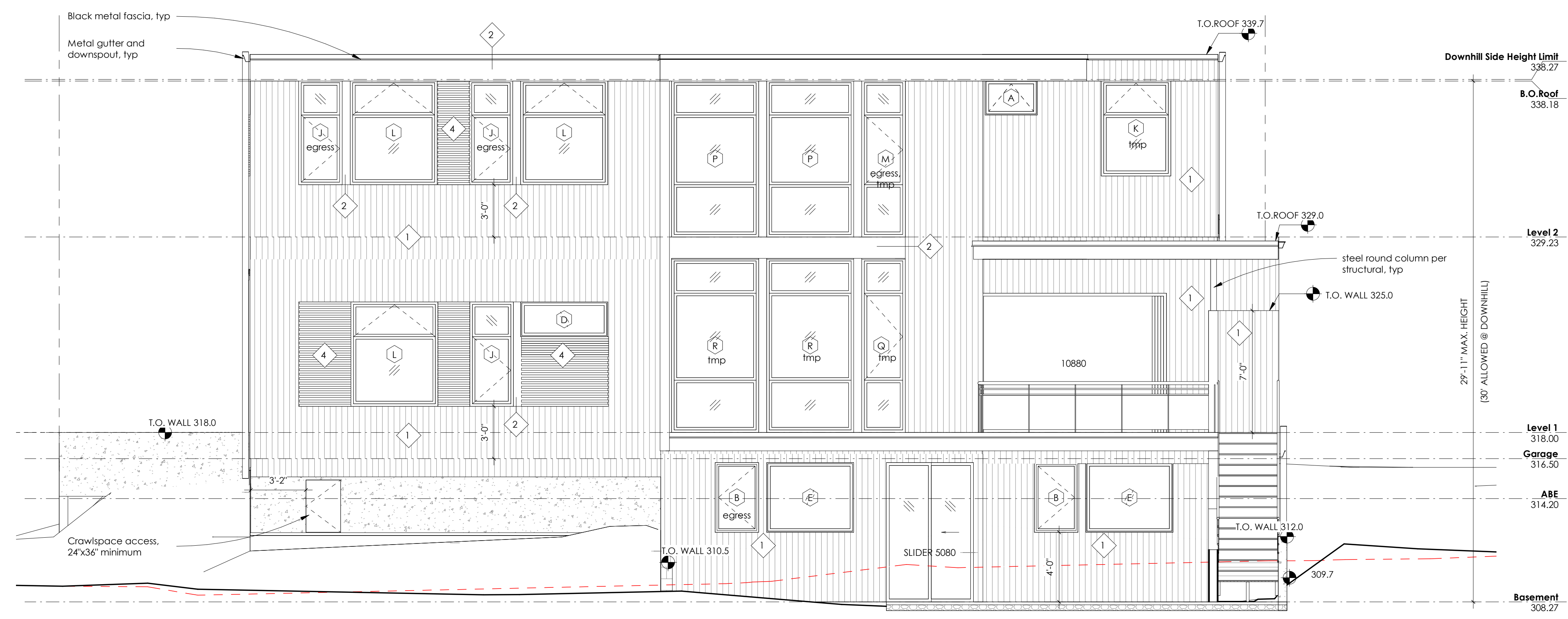
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 Date: 04/29/2022

**A3.1**

Project Number: **JWA#611**

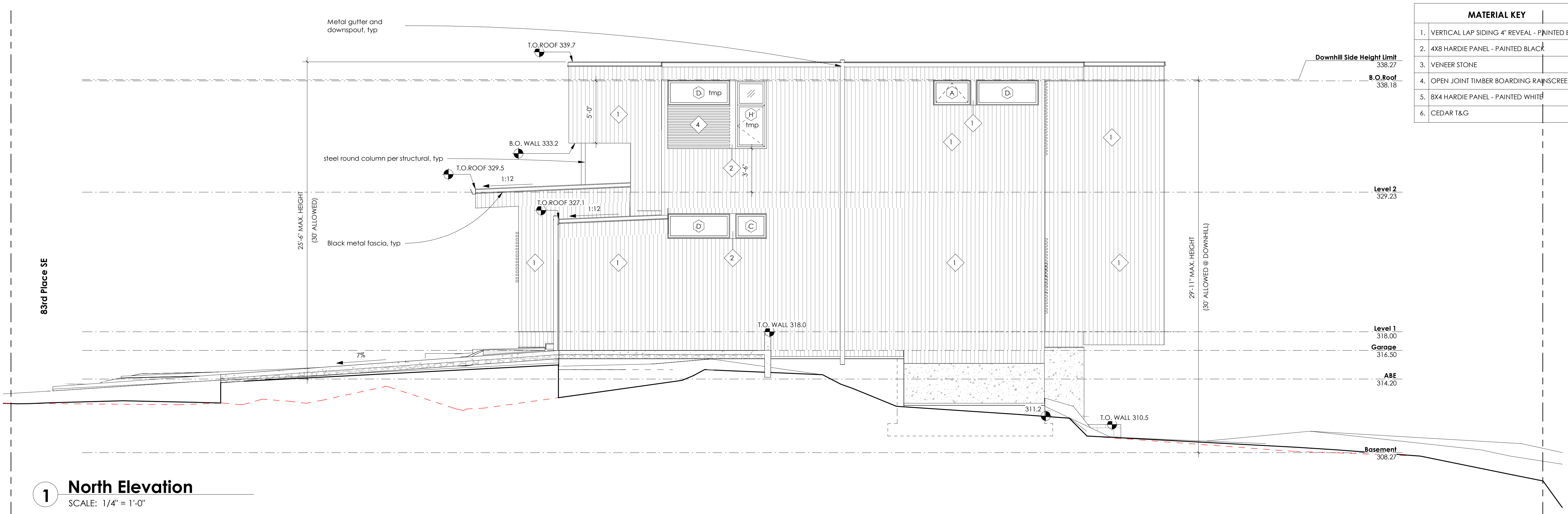


**1 East Elevation - 83rd Pl SE**  
 SCALE: 1/4" = 1'-0"



**2 West Elevation**  
 SCALE: 1/4" = 1'-0"

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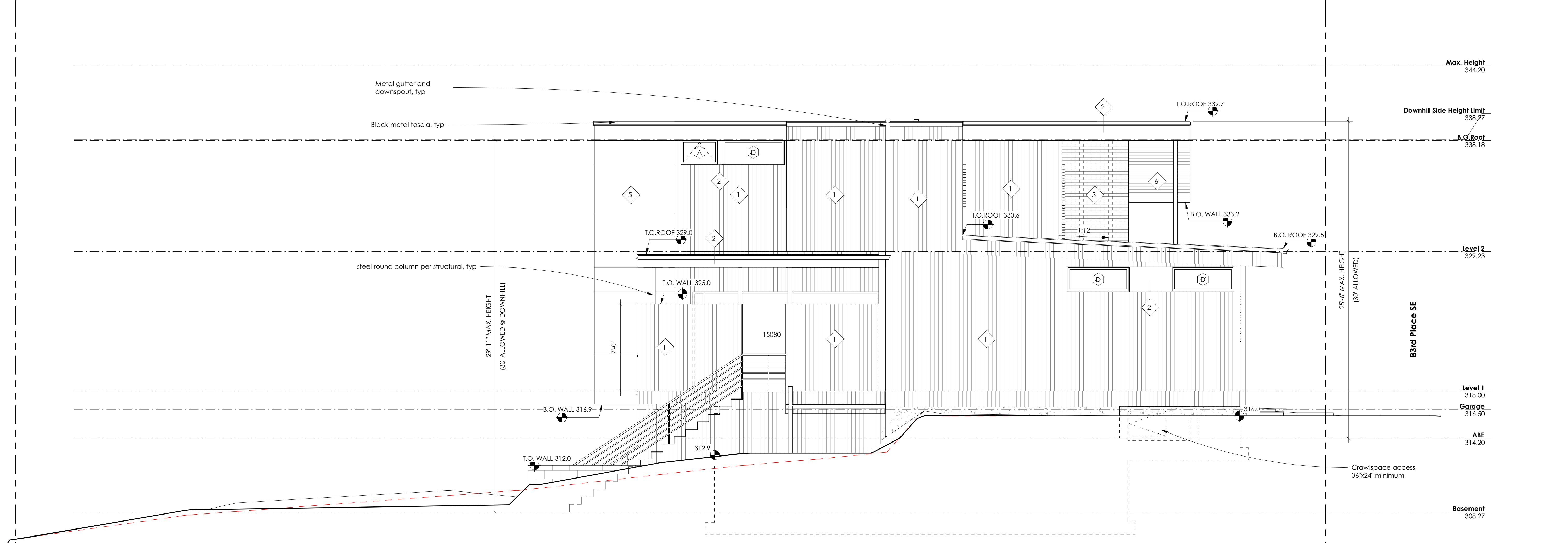
MATERIAL KEY	
1.	VERTICAL LAP SIDING 4" REVEAL - PAINTED BLACK
2.	4X8 HARDIE PANEL - PAINTED BLACK
3.	VENEER STONE
4.	OPEN JOINT TIMBER BOARDING RAINSCREEN
5.	8X4 HARDIE PANEL - PAINTED WHITE
6.	CEDAR T&G

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	Δ	06.02.2022	BP Submittal

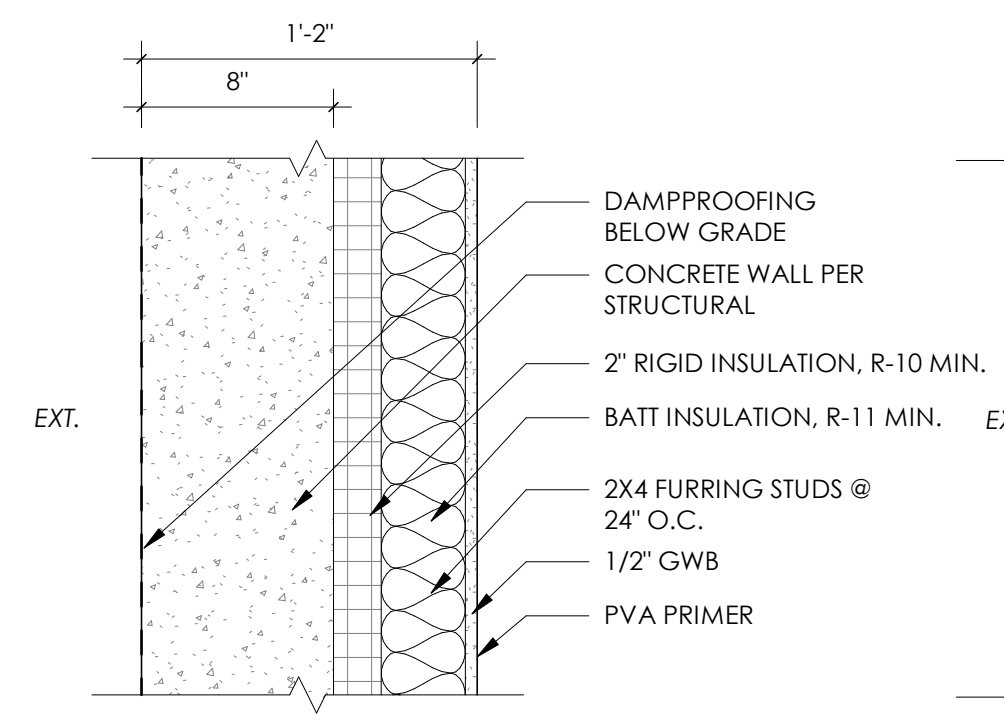
**ELEVATIONS**

Scale: 1/4" = 1'-0"  
Date: 04/29/2022

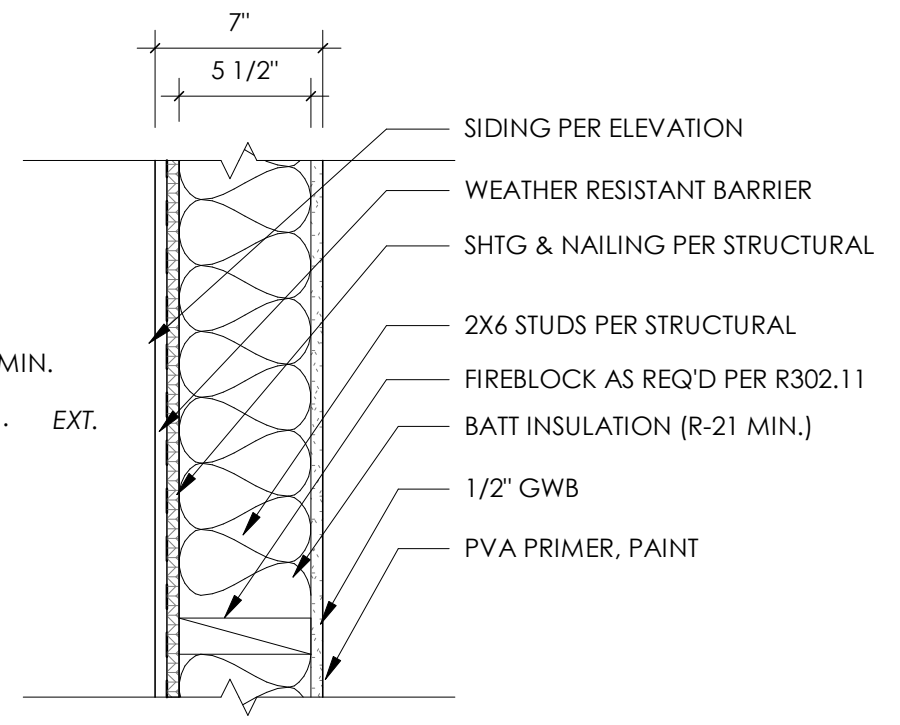
**A3.2**  
Project Number: JWA#611



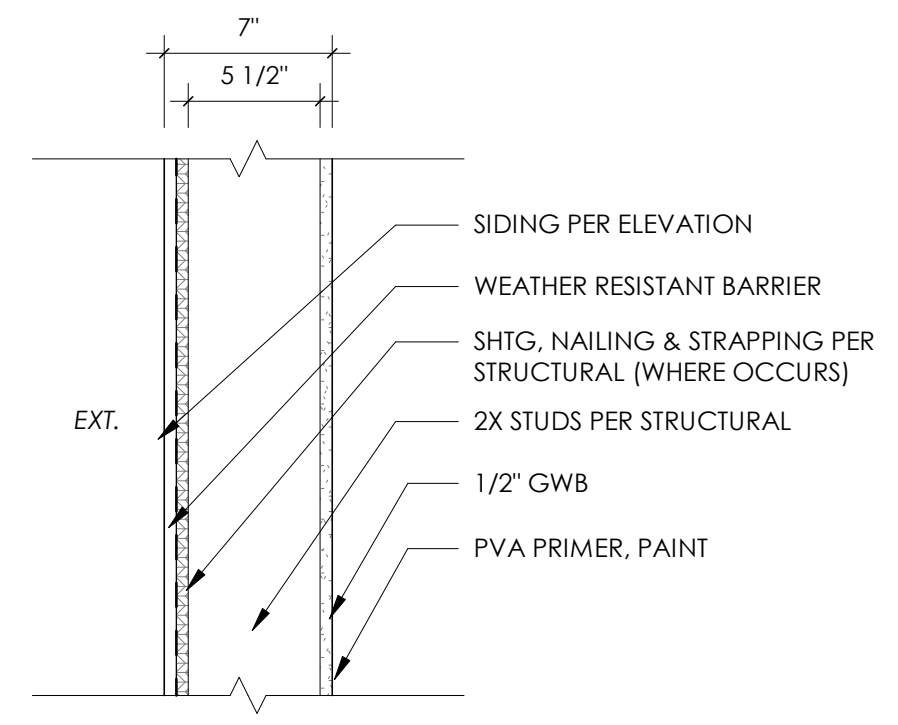
# WALL ASSEMBLIES



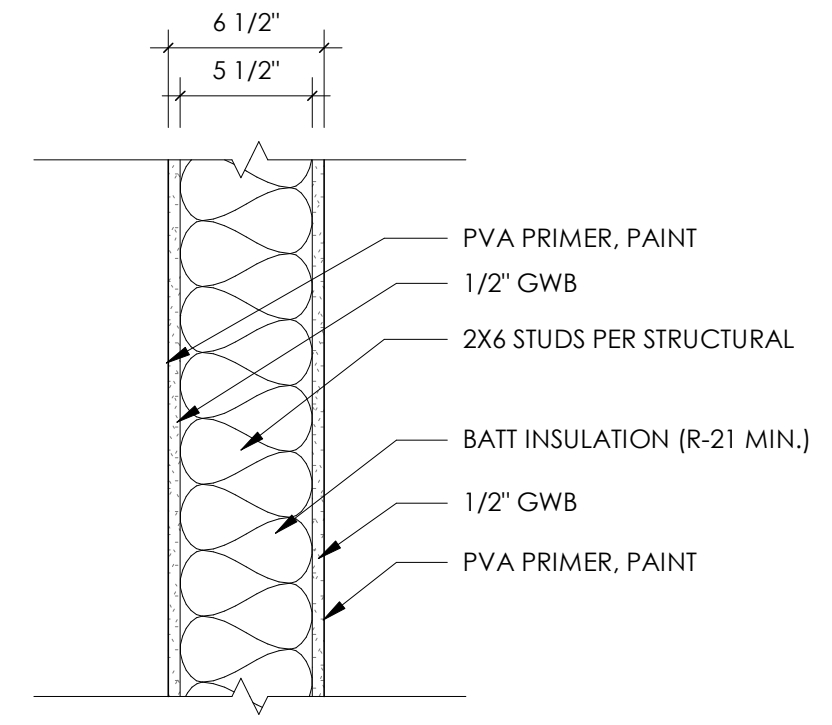
**W1** BELOW GRADE FURRED WALL



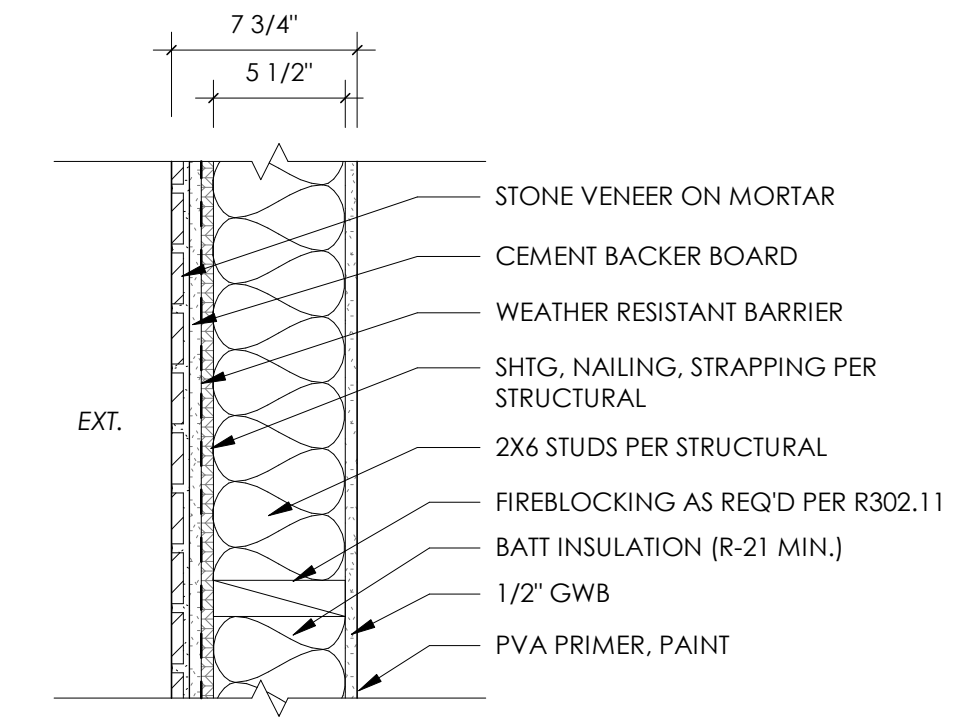
**W2** EXTERIOR WALL



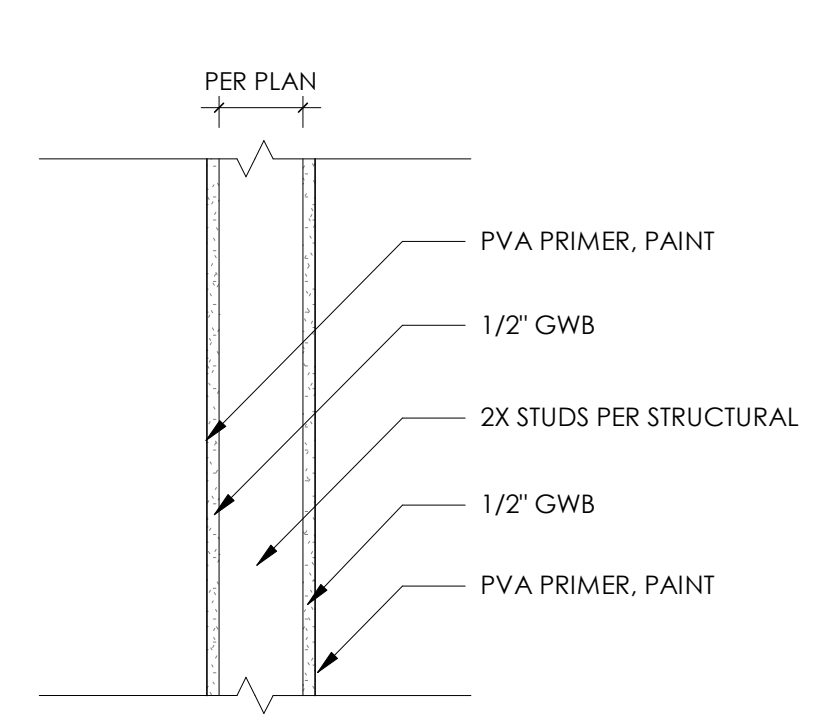
**W3** UNINSULATED EXTERIOR WALL



**W4** WALL @ GARAGE/LIVING SPACE

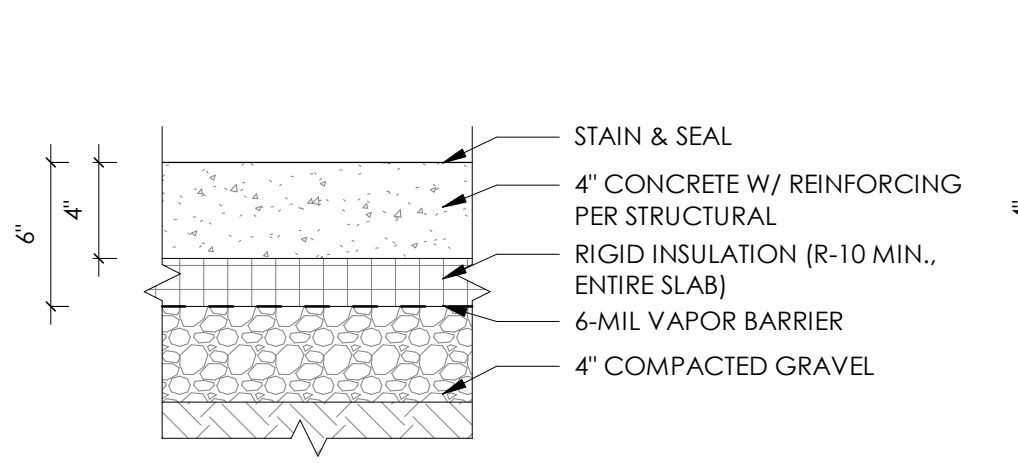


**W5** EXTERIOR WALL W/ STONE VENEER

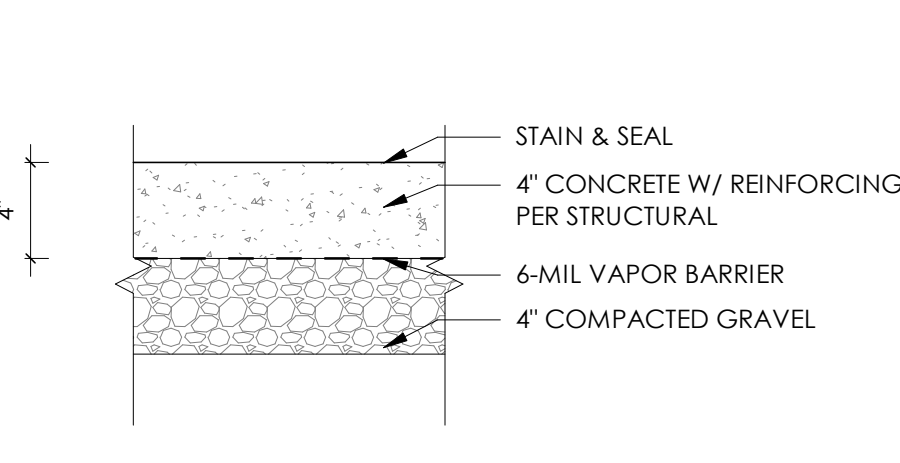


**W6** INTERIOR WALL

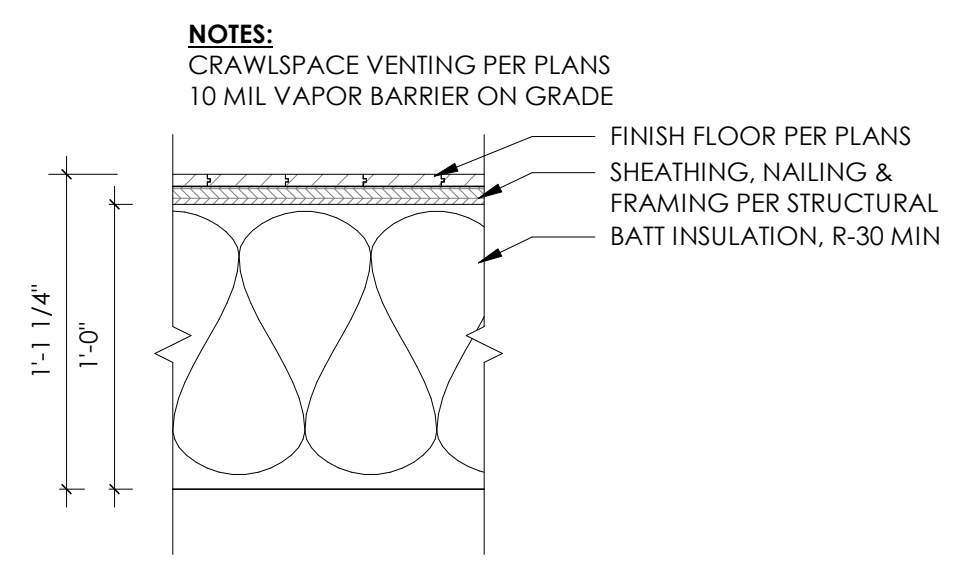
# FLOOR ASSEMBLIES



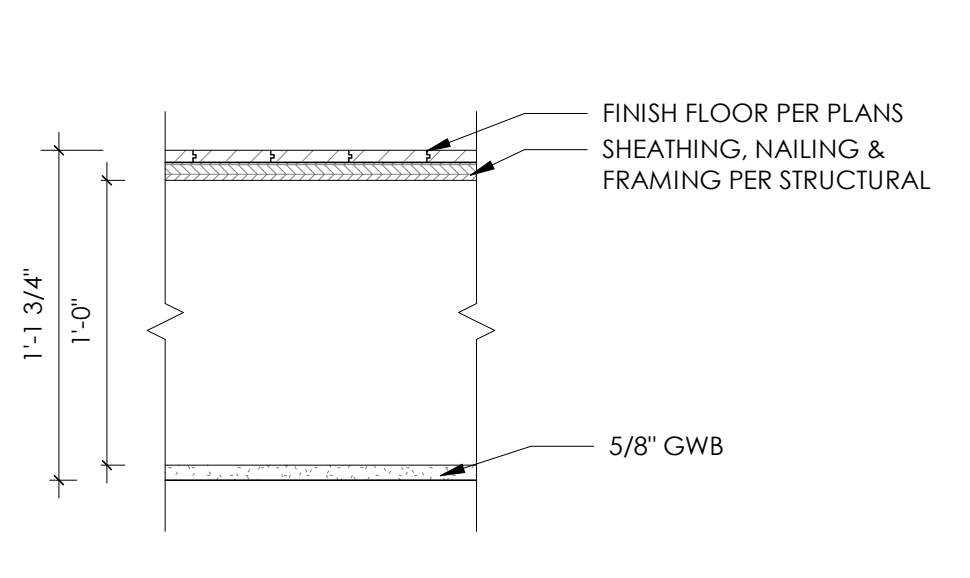
**F1** SLAB ON GRADE - INSULATED



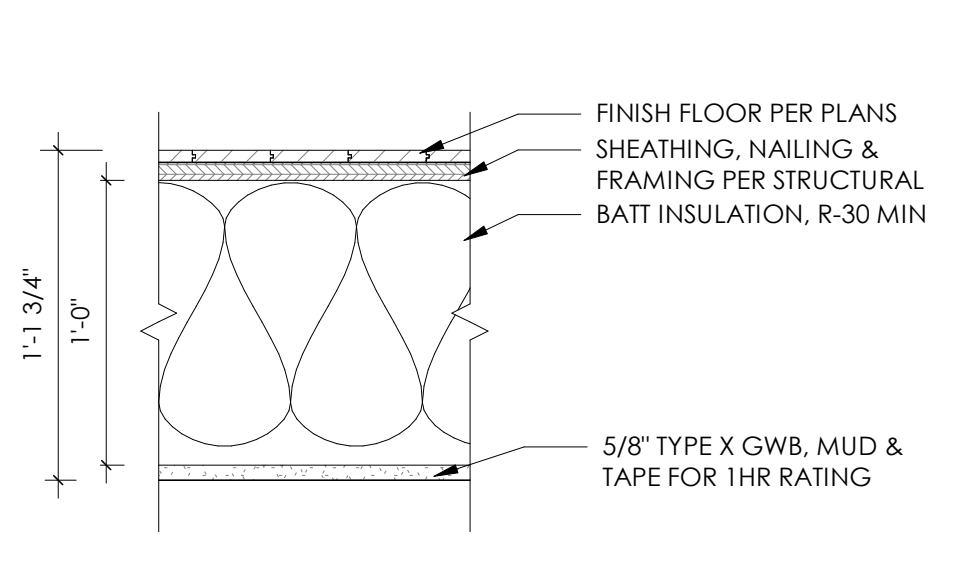
**F2** SLAB ON GRADE @ GARAGE



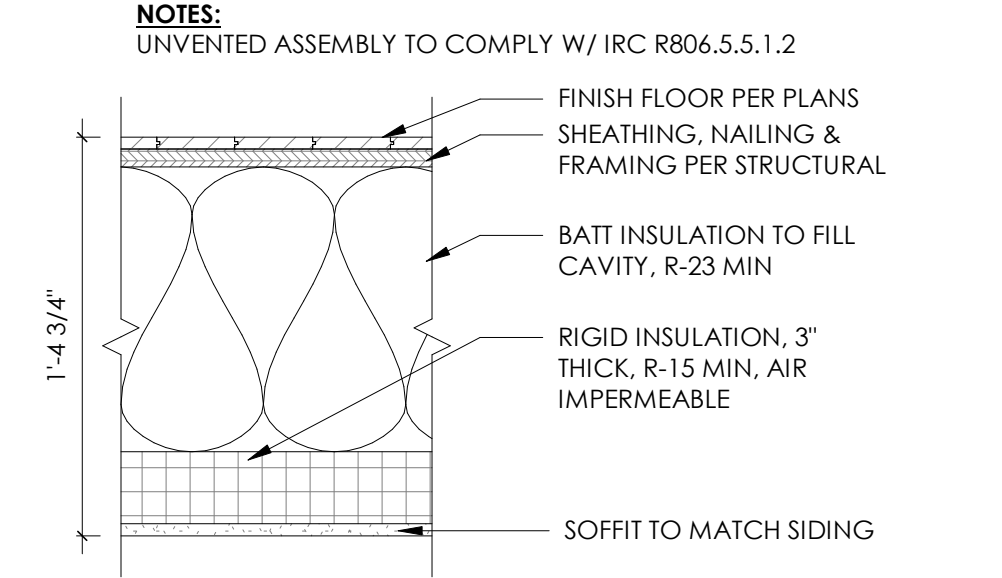
**F3** FLOOR OVER CRAWLSPACE



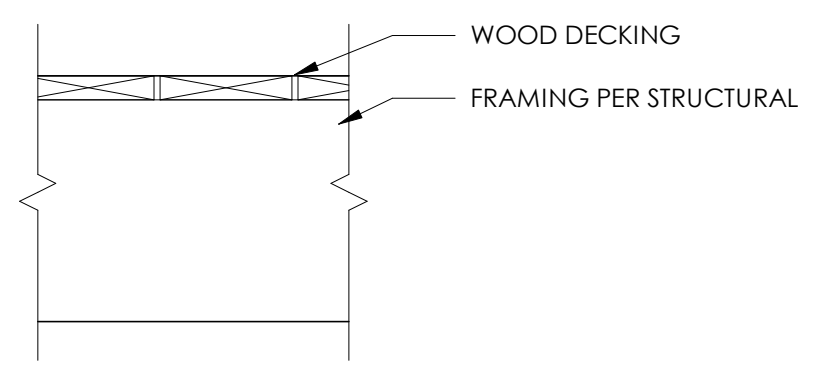
**F4** UPPER FLOOR



**F5** FLOOR OVER GARAGE

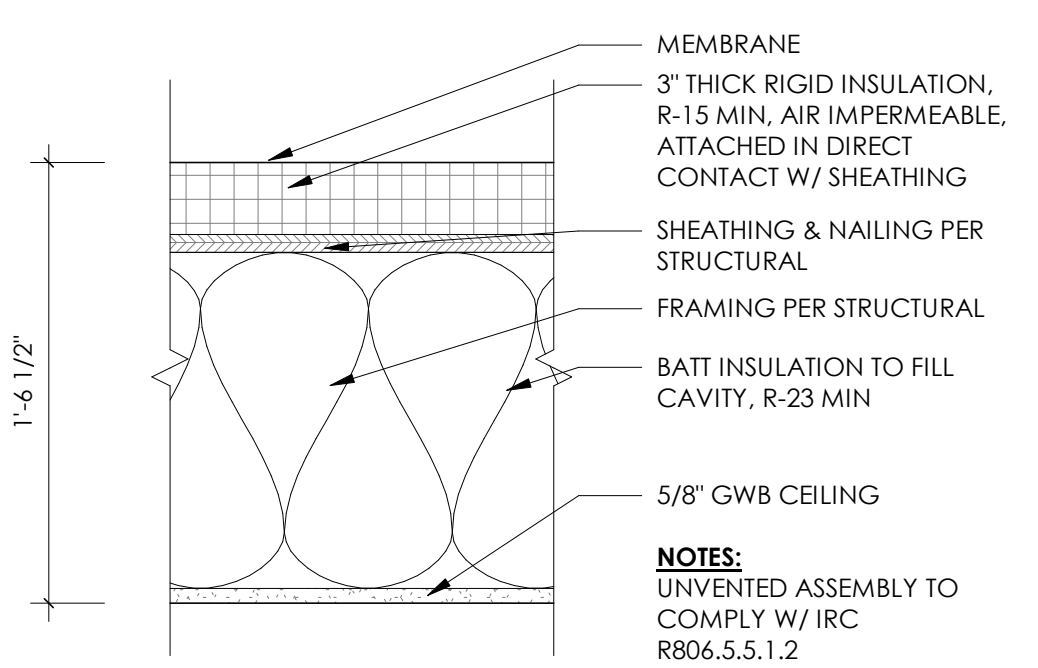


**F6** CANTILEVERED FLOOR - UNVENTED

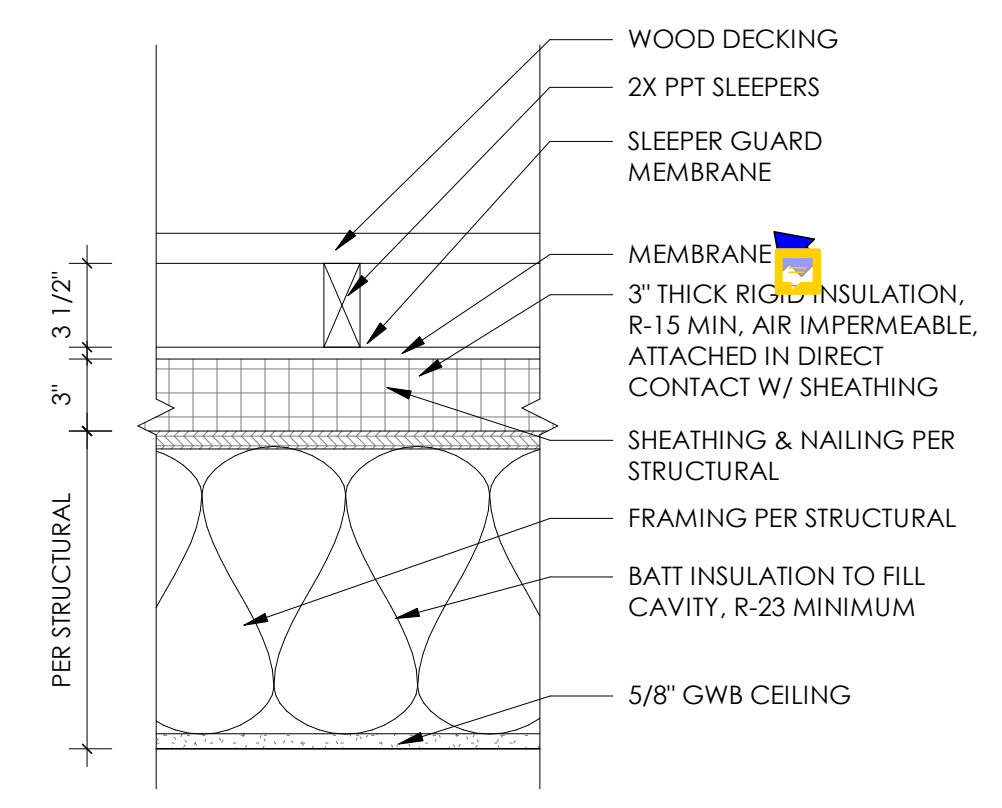


**F7** OPEN DECK

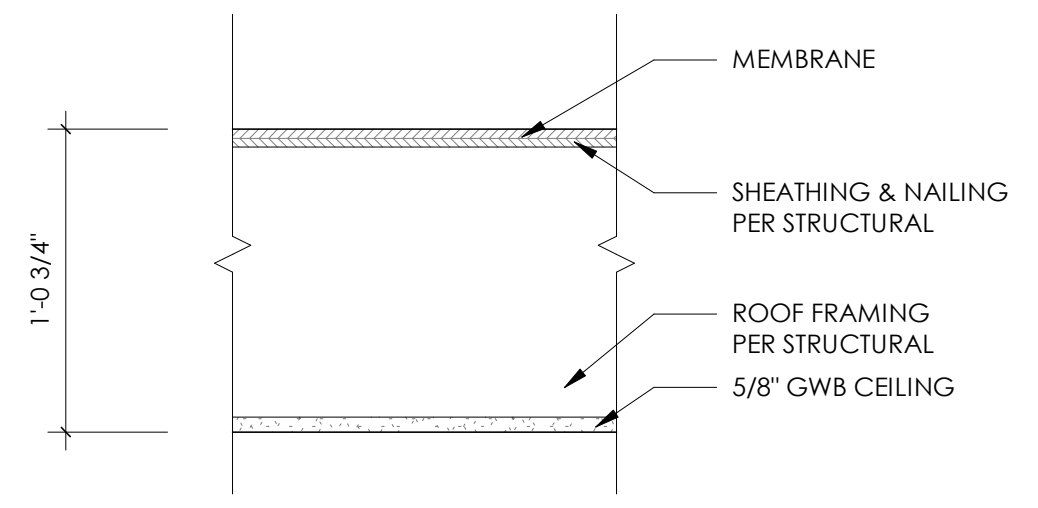
# ROOF ASSEMBLIES



**R1** TJI - UNVENTED



**R2** ROOF W/ DECKING



**R3** 2X12 UNHEATED SPACE



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## ASSEMBLIES

Scale 1 1/2" = 1'-0"  
 Date 04/29/2022

**A4.1**

Project Number **JWA#611**

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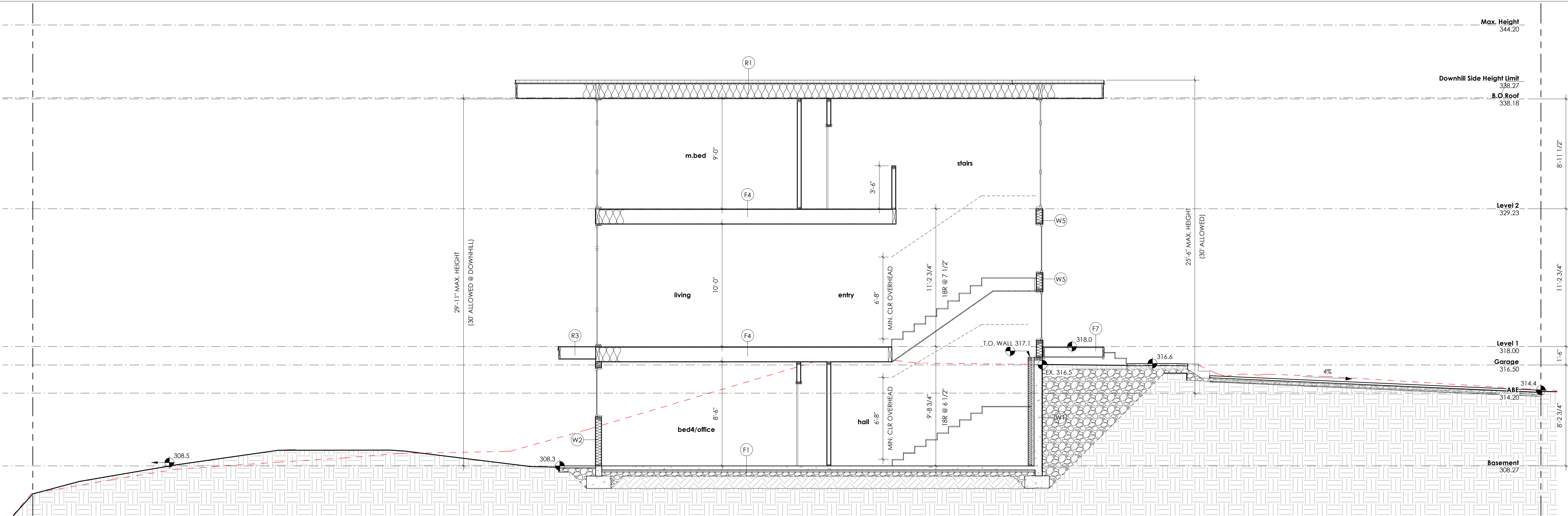
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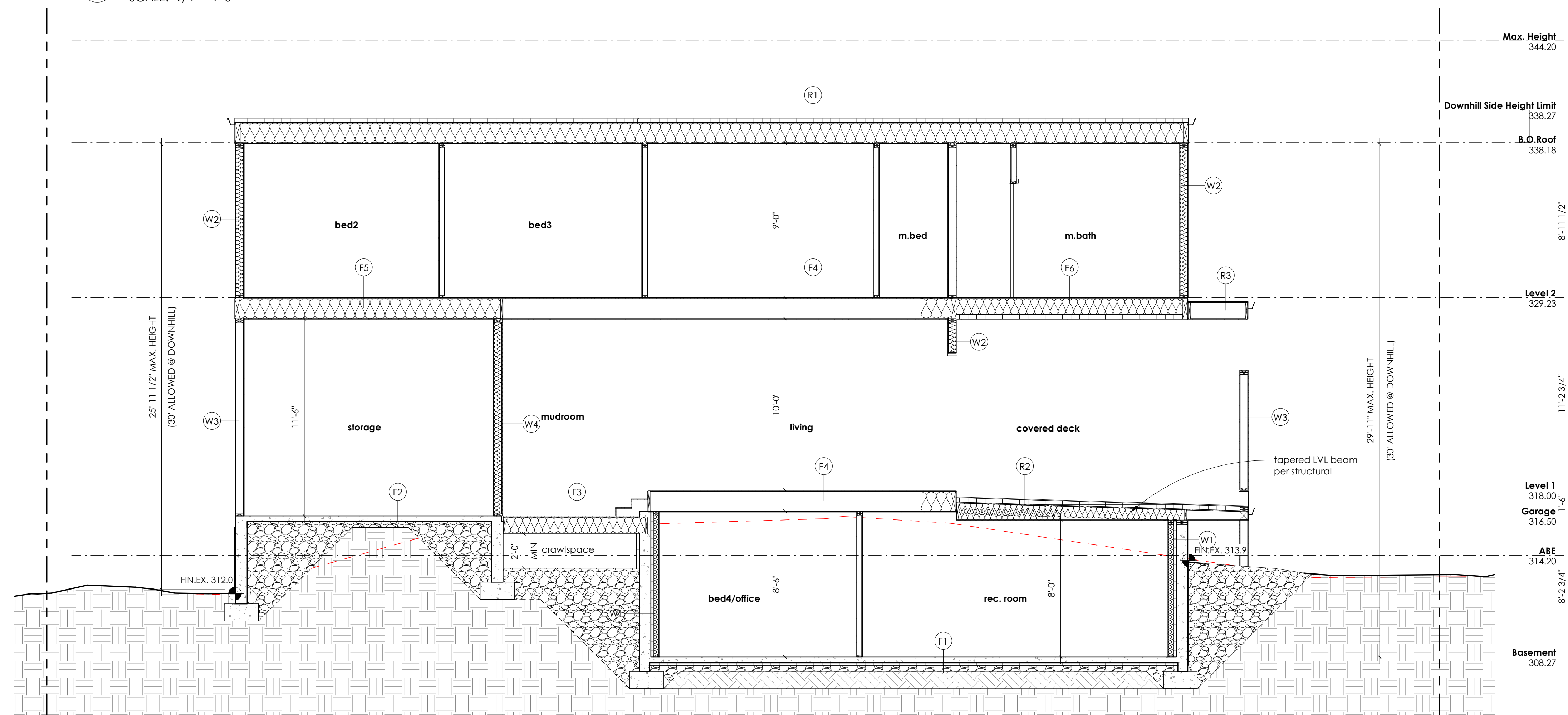
**A4.2**

Project Number **JWA#611**

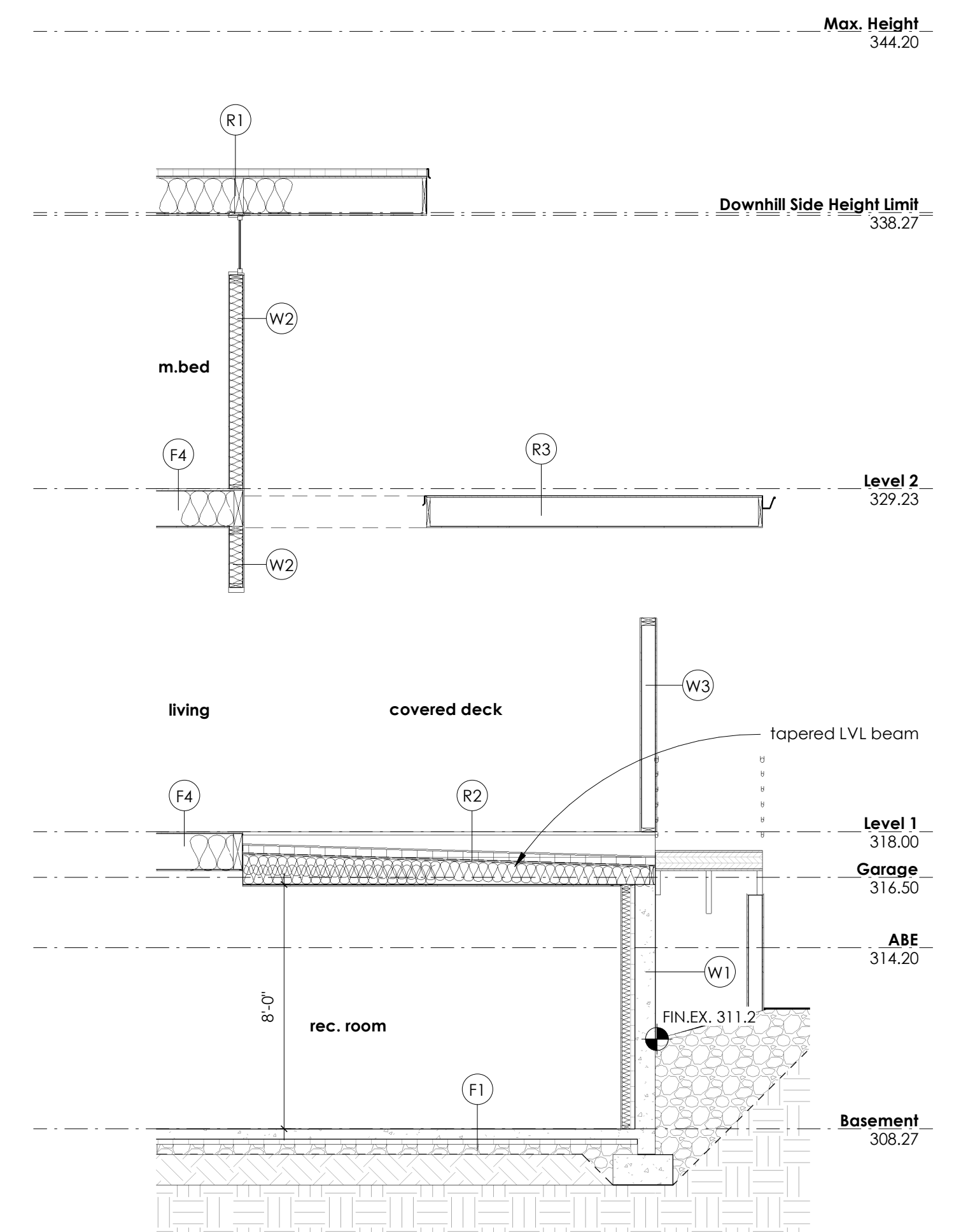
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**1 Section 1 Stairs**  
 SCALE: 1/4" = 1'-0"



**2 Section 2**  
 SCALE: 1/4" = 1'-0"



**3 Partial Section 3 - Covered Deck**  
 SCALE: 1/4" = 1'-0"



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9458 REGISTERED ARCHITECT  
*Julian R. Weber*  
 JULIAN R. WEBER  
 STATE OF WASHINGTON

**COOMBES DEVELOPMENT**  
 4701 SW ADMIRAL WAY, SUITE 385  
 SEATTLE, WA 98116  
 P 206.420.7672

**Coombes Residence**  
 6221 83rd Pl SE  
 Mercer Island

MUP #	BP #	Date	Description
		06.02.2022	BP Submittal

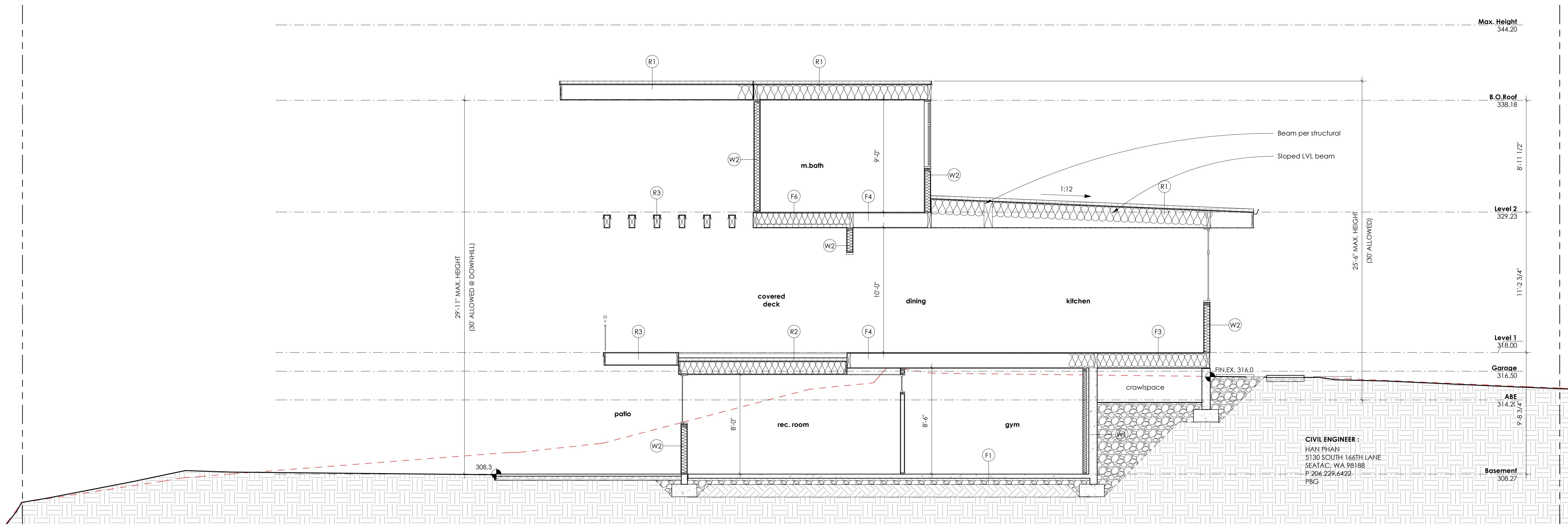
**BUILDING SECTION**

Scale: 1/4" = 1'-0"  
 Date: 04/29/2022

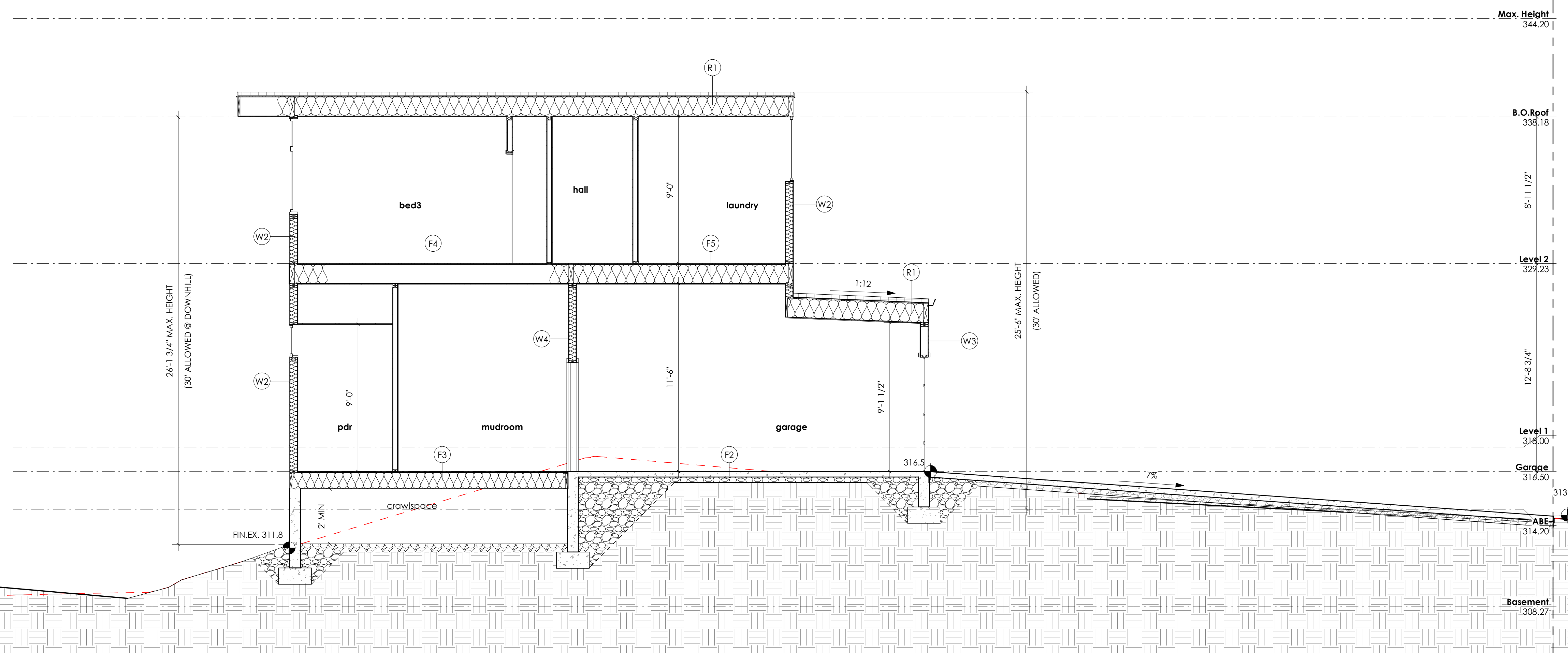
**A4.3**

Project Number: **JWA#611**

6/29/2022 11:23:00 AM

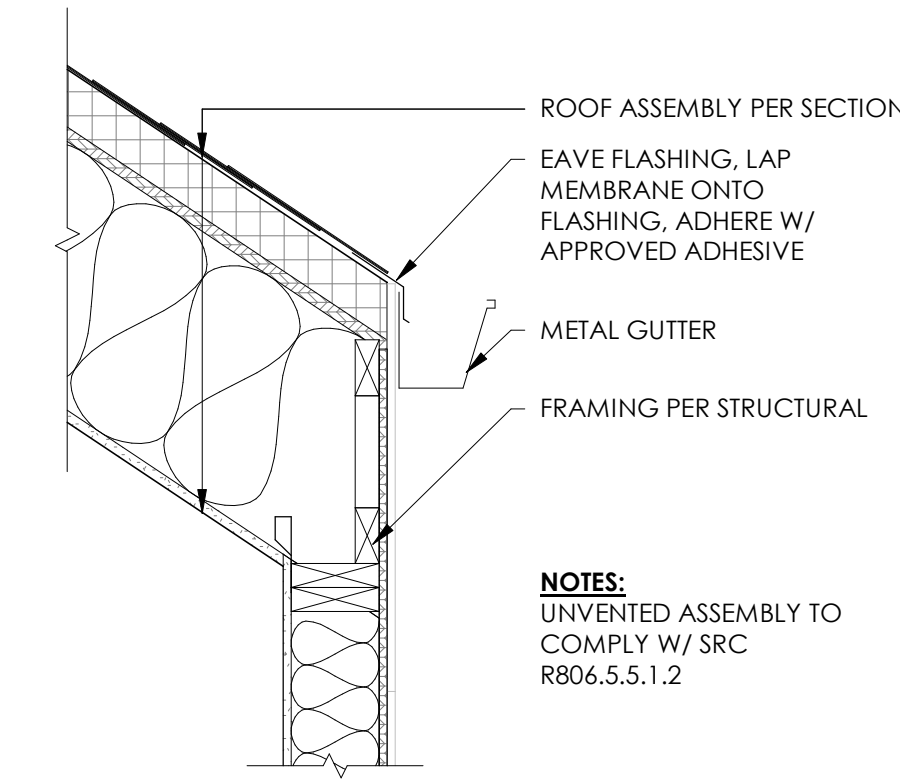
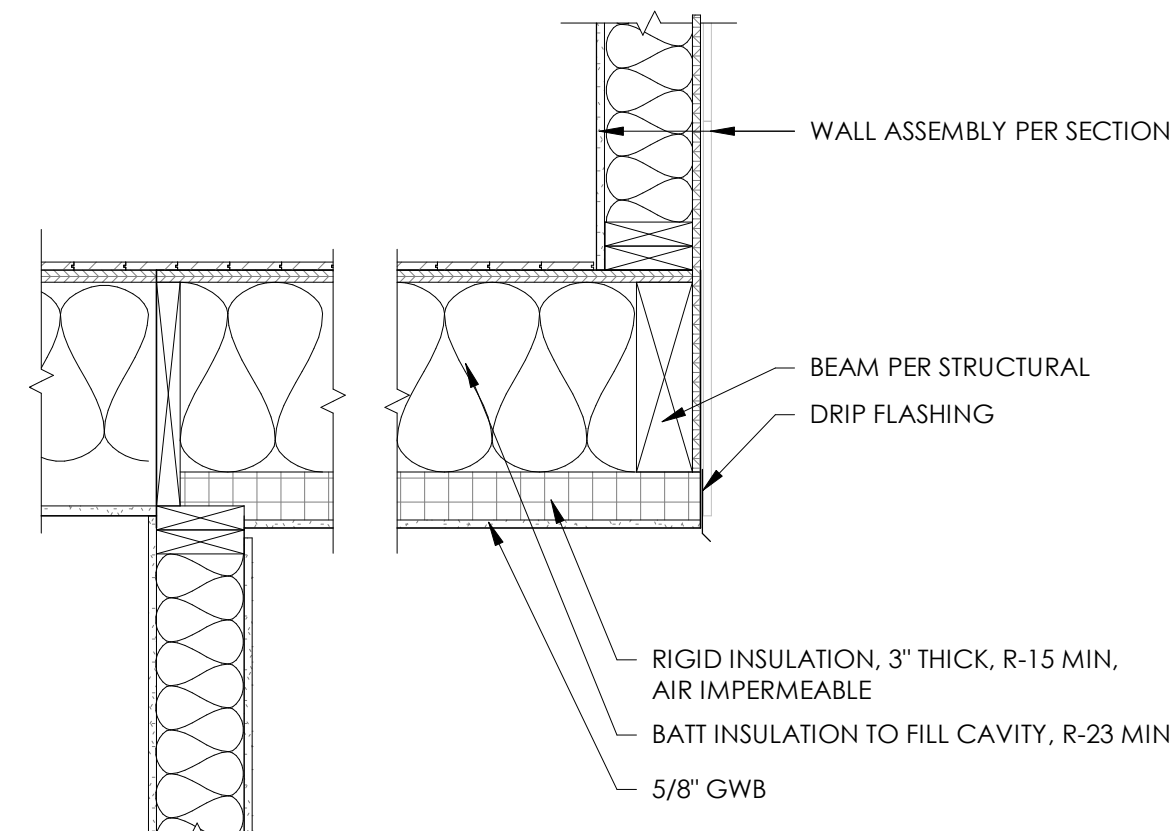
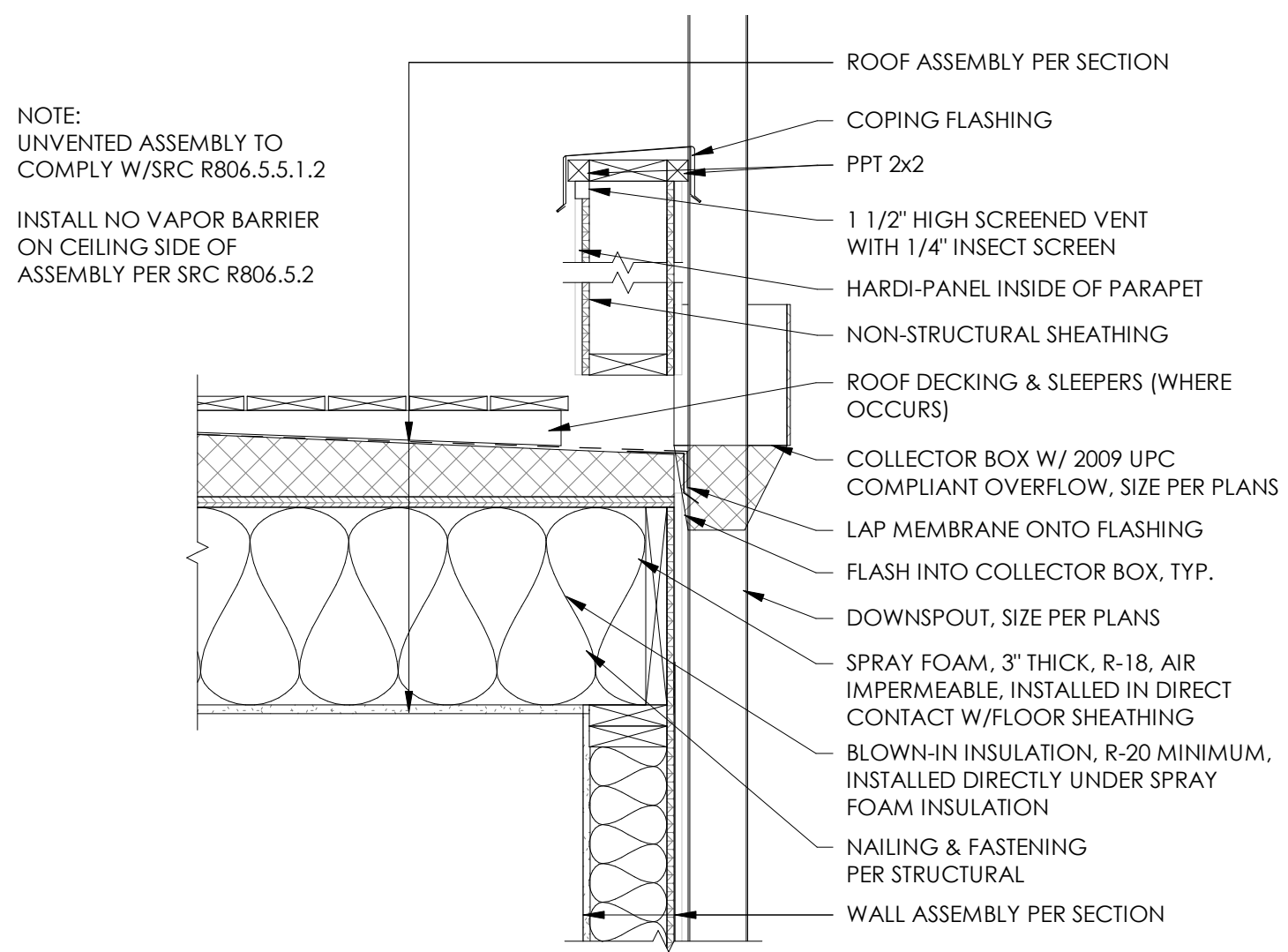


**1 Section 4 Covered Deck**  
 SCALE: 1/4" = 1'-0"



**2 Section 4 Garage**  
 SCALE: 1/4" = 1'-0"

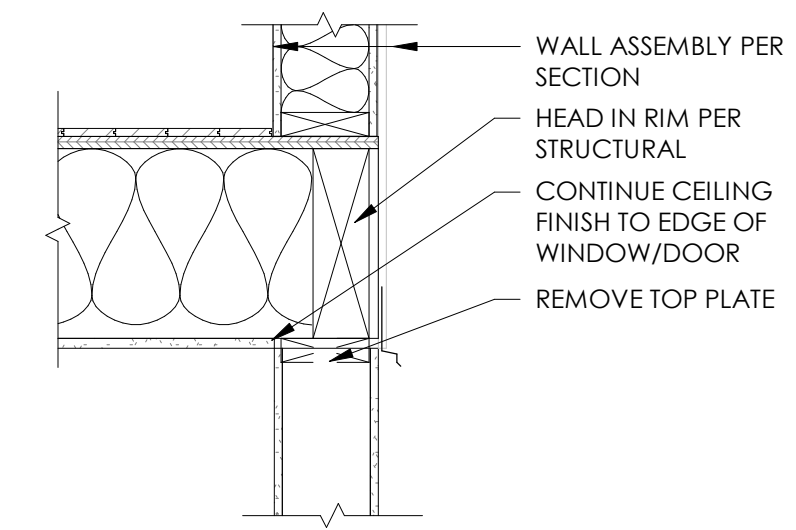
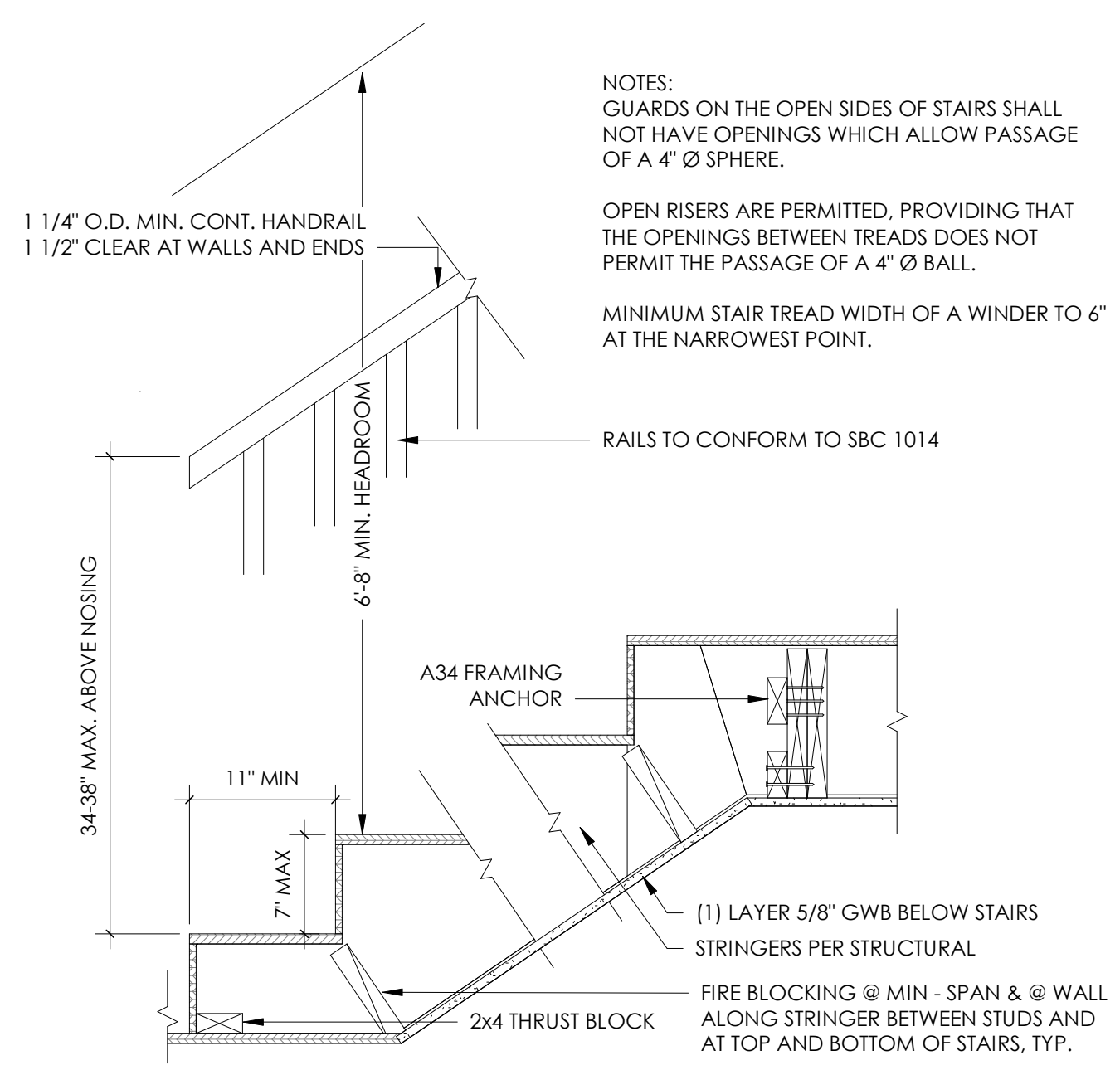
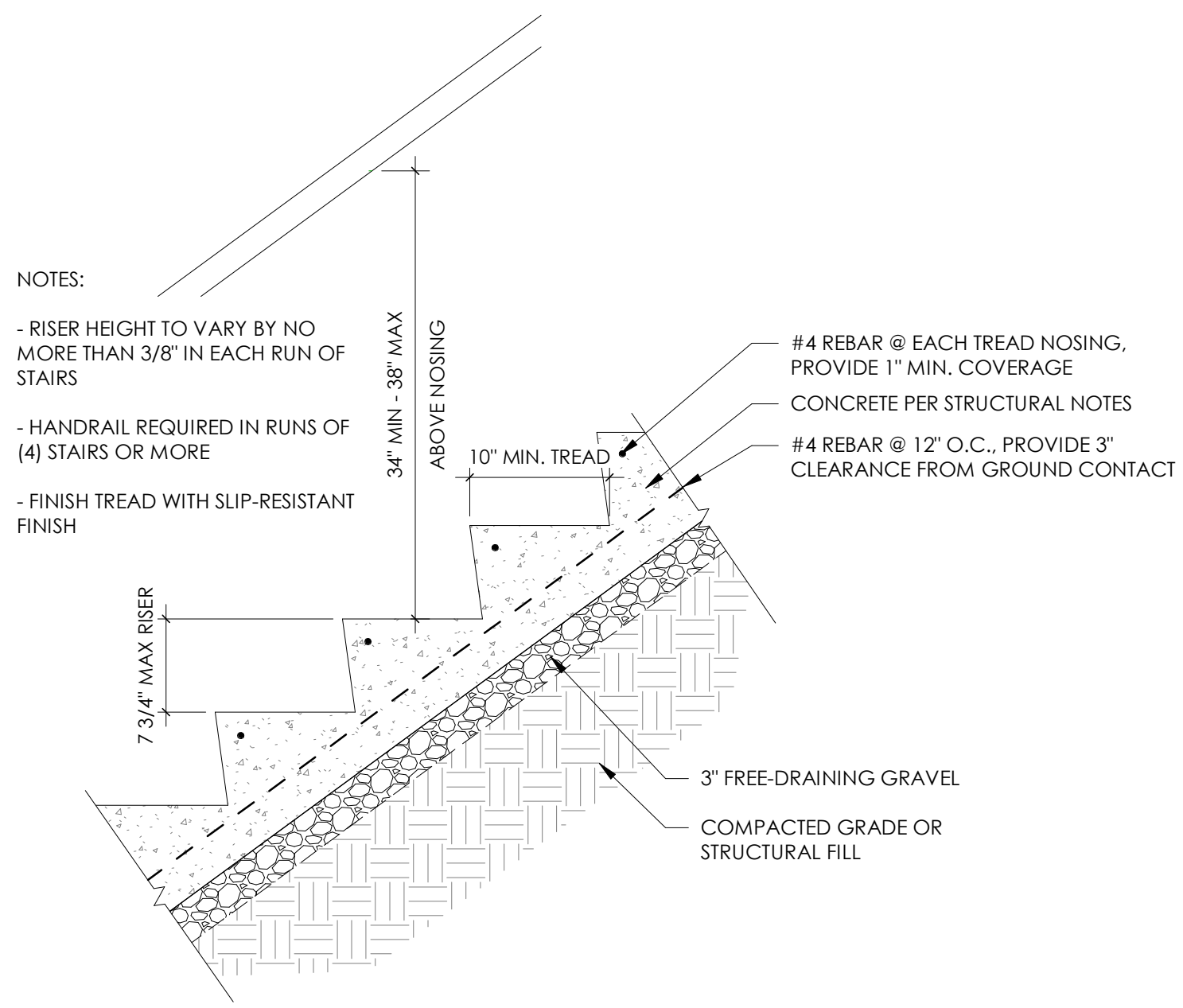
**CIVIL ENGINEER:**  
 HAN PHAN  
 5130 SOUTH 146TH LANE  
 SEATAC, WA 98188  
 P 206.229.6422  
 PBG



**1 PARAPET - UNVENTED @ SCUPPER/GUTTER**  
SCALE: 1" = 1'-0"

**2 CANTILEVER - UNVENTED, 1 HOUR**  
SCALE: 1" = 1'-0"

**3 UNVENTED EAVE**  
SCALE: 1" = 1'-0"

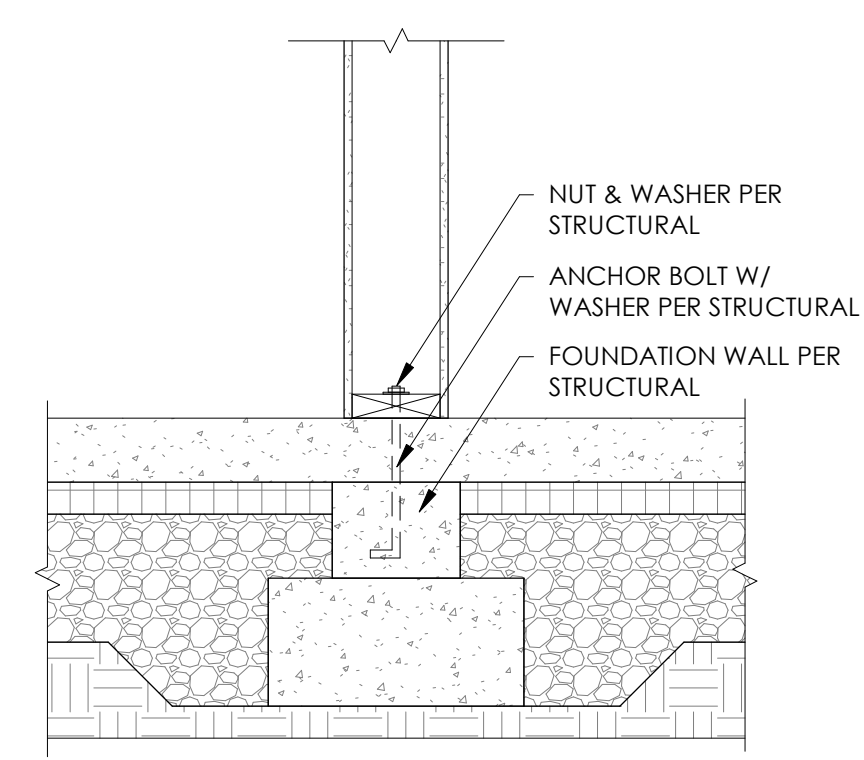
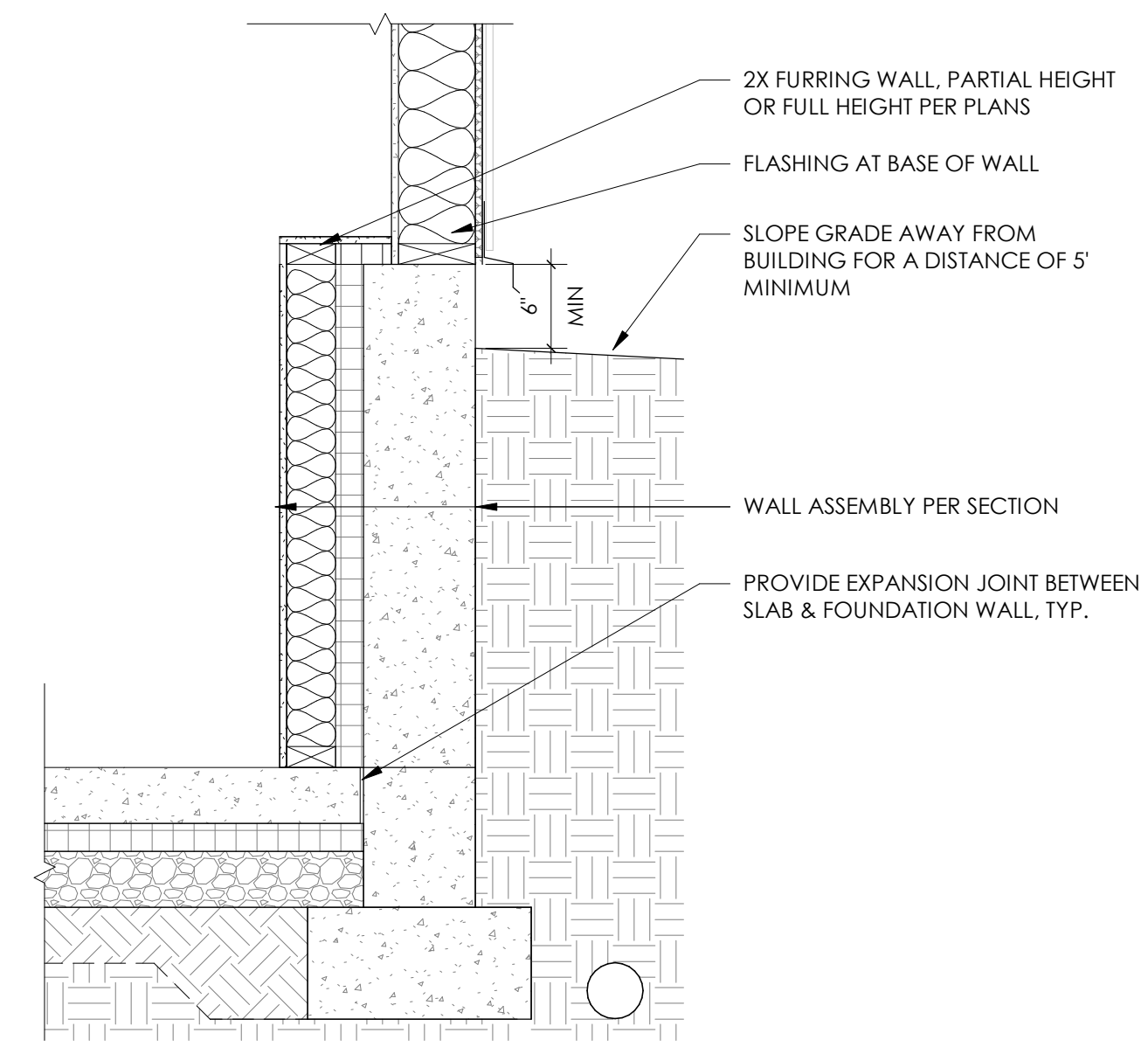
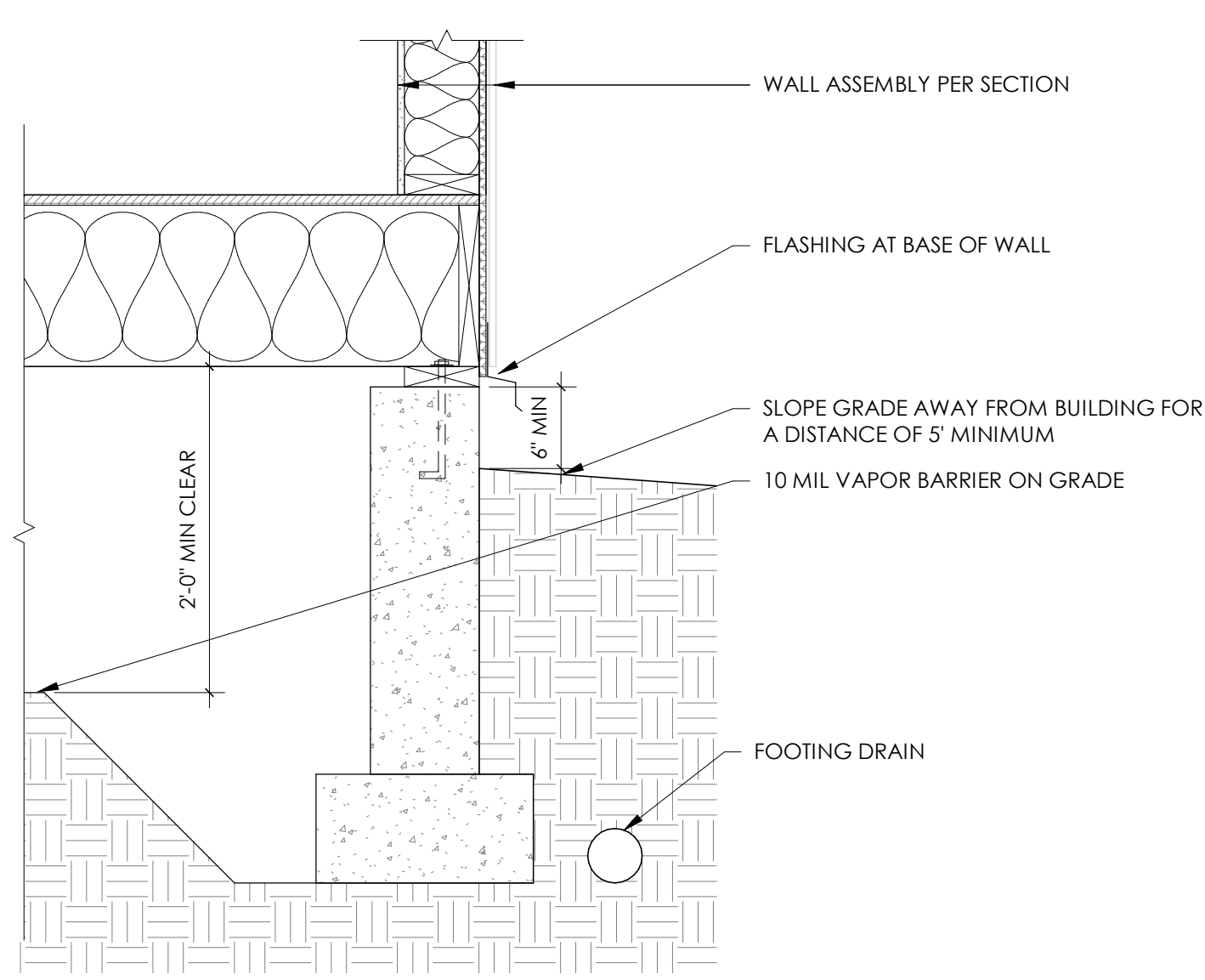


**4 CONCRETE STEPS ON GRADE**  
SCALE: 1" = 1'-0"

**5 STAIR, MIN. 11" TREAD**  
SCALE: 1" = 1'-0"

**6 HEAD IN RIM**  
SCALE: 1" = 1'-0"

**7 HEADER**  
SCALE: 1" = 1'-0"



**8 FOUNDATION WALL @ CRAWLSPACE**  
SCALE: 1" = 1'-0"

**9 FOUNDATION WALL W/ FURRING**  
SCALE: 1" = 1'-0"

**10 SLAB @ INTERIOR FOOTING**  
SCALE: 1" = 1'-0"



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MUP #	BP #	Date	Description
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**DETAILS**  
Scale 1" = 1'-0"  
Date 04/29/2022  
**A6.1**  
Project Number JWA#611



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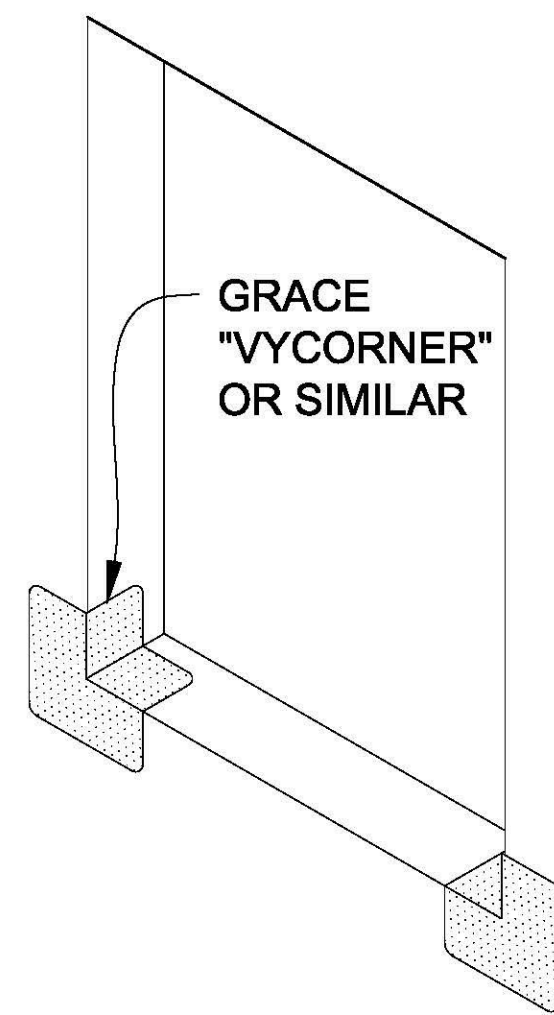
WINDOW FLASHING

Scale 1" = 1'-0"  
 Date 04/29/2022

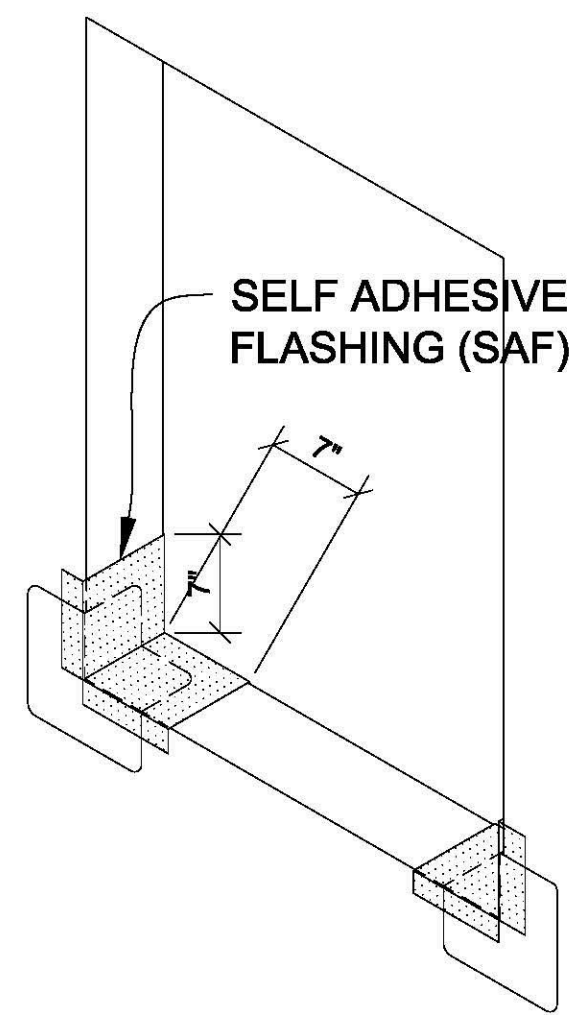
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Project Number JWA#611

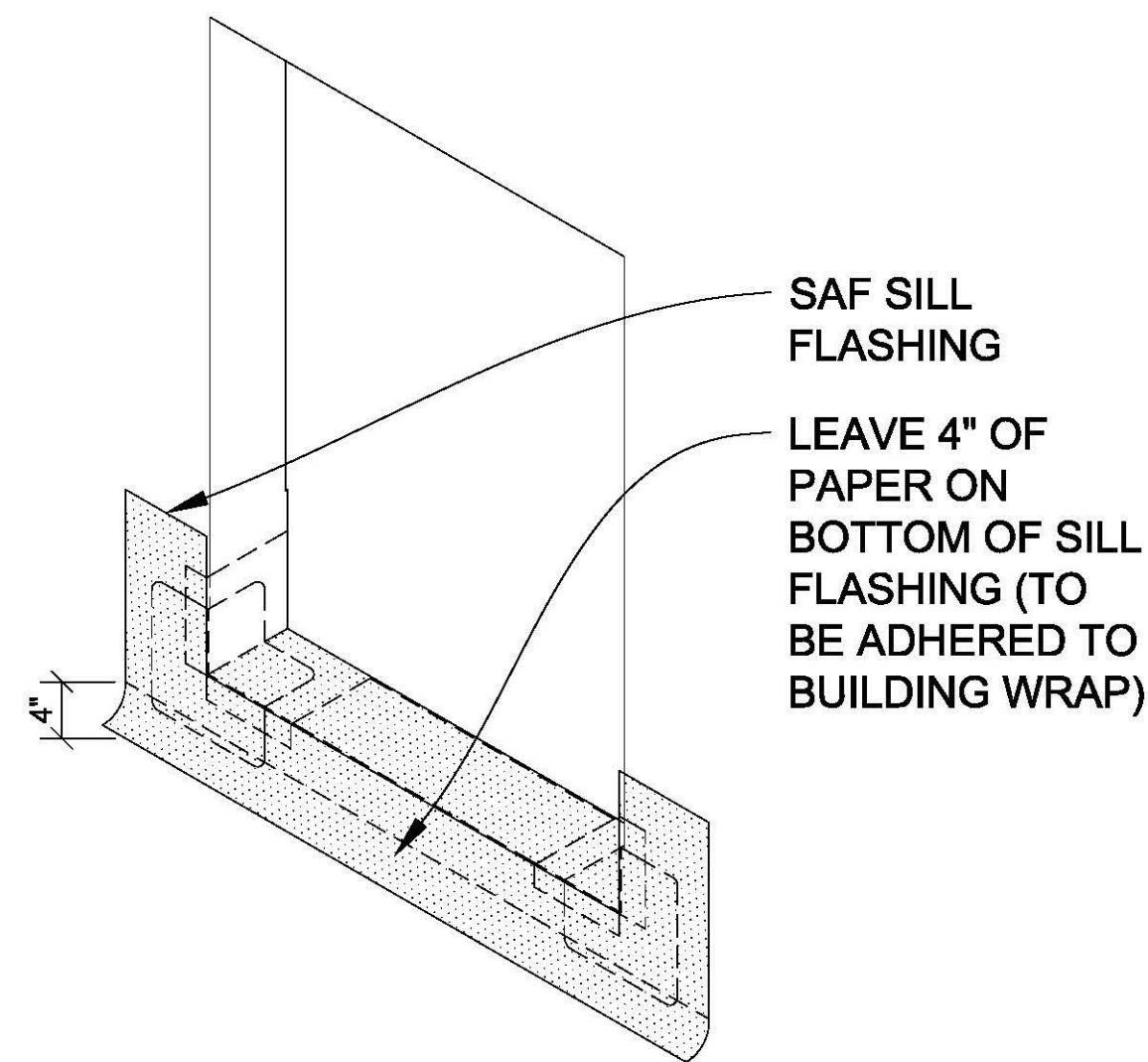
STEP 1 - VYCORNER



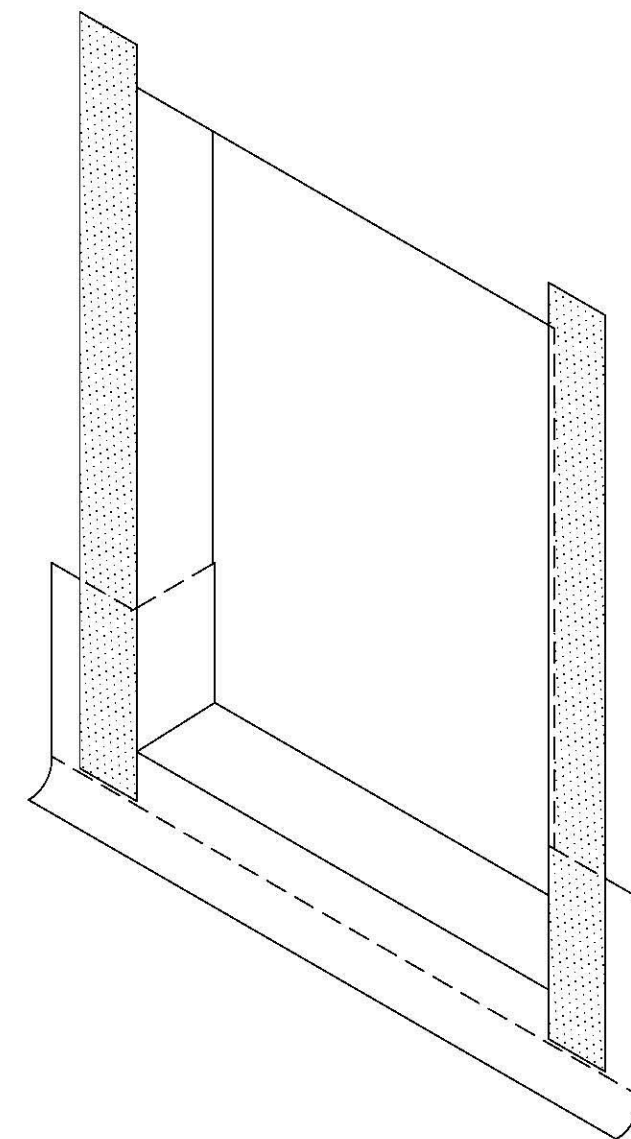
STEP 2 - SAF TABS



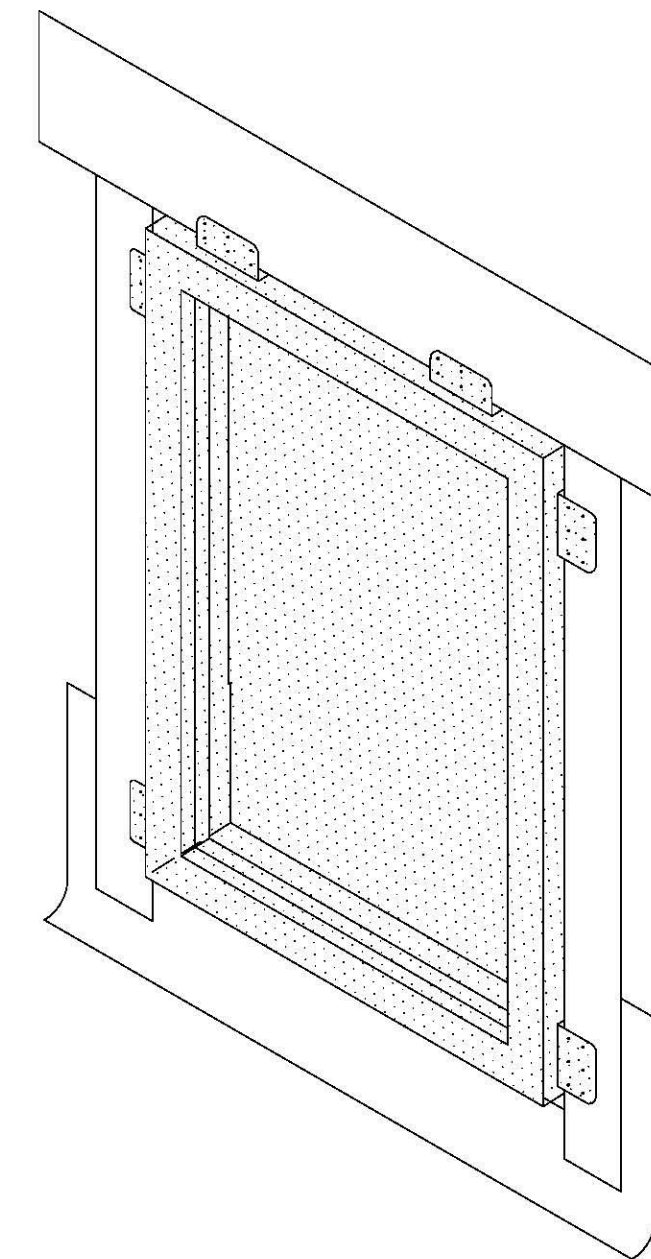
STEP 3 - SAF SILL



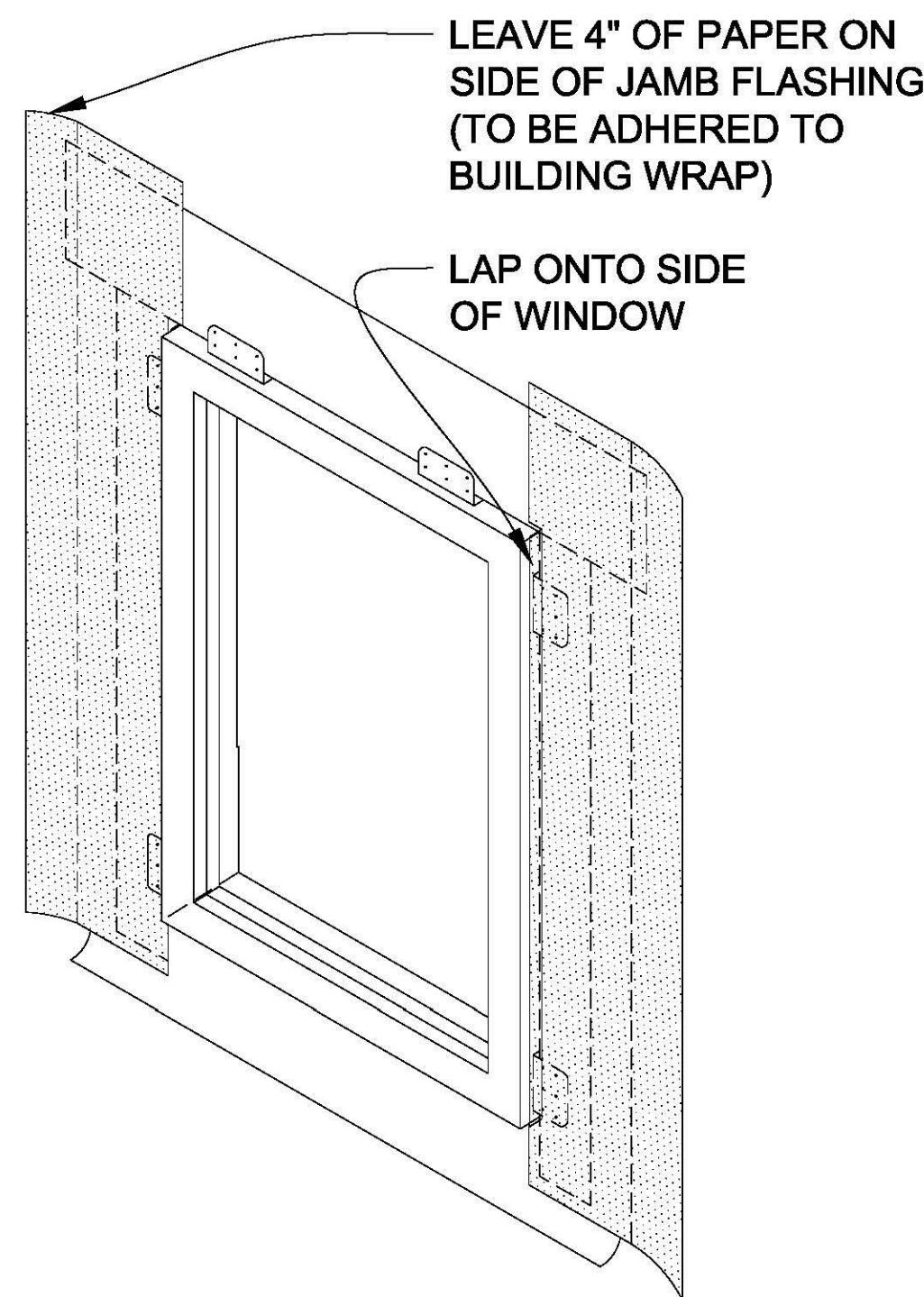
STEP 4 - SAF JAMB



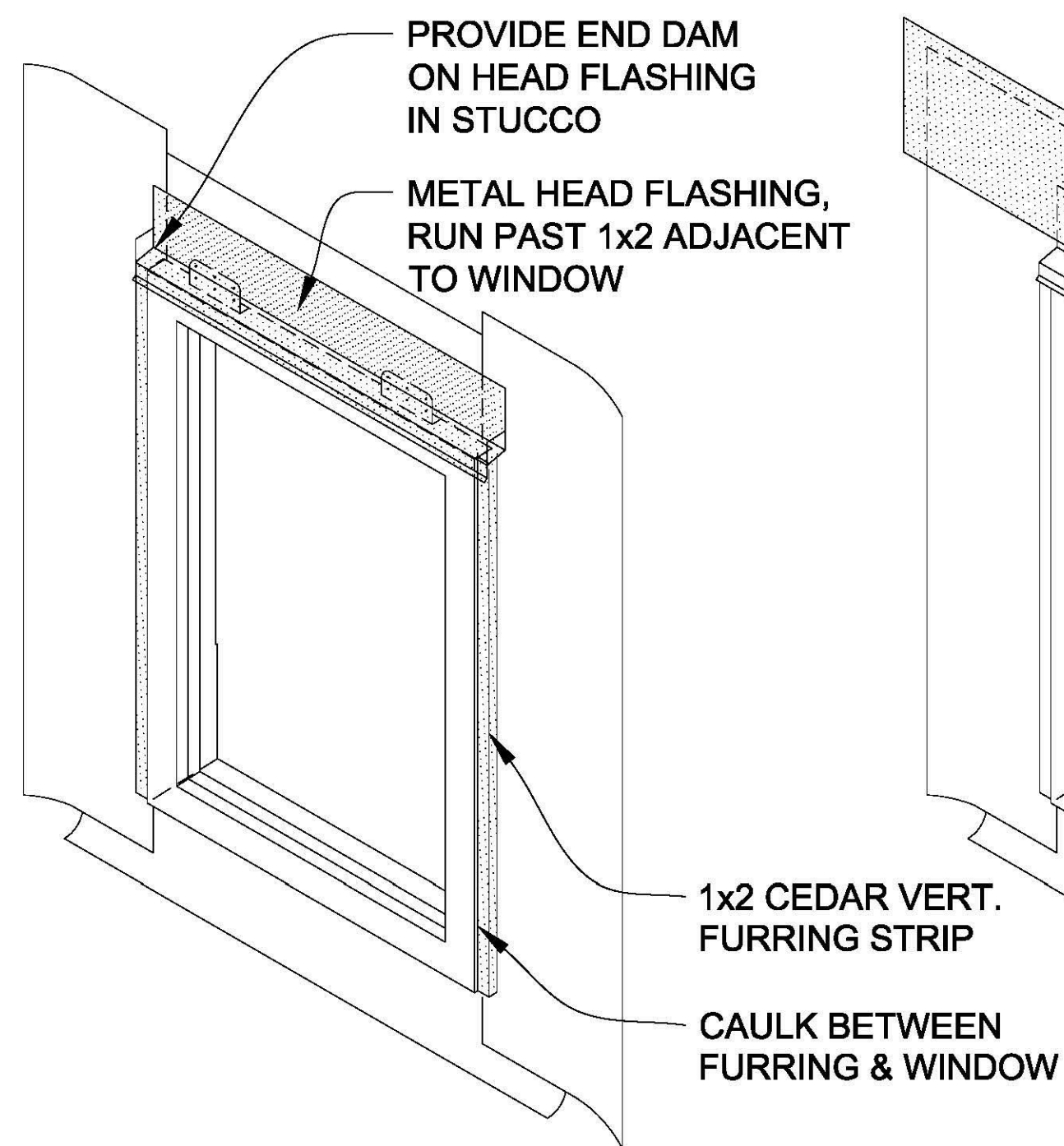
STEP 5 - WINDOW



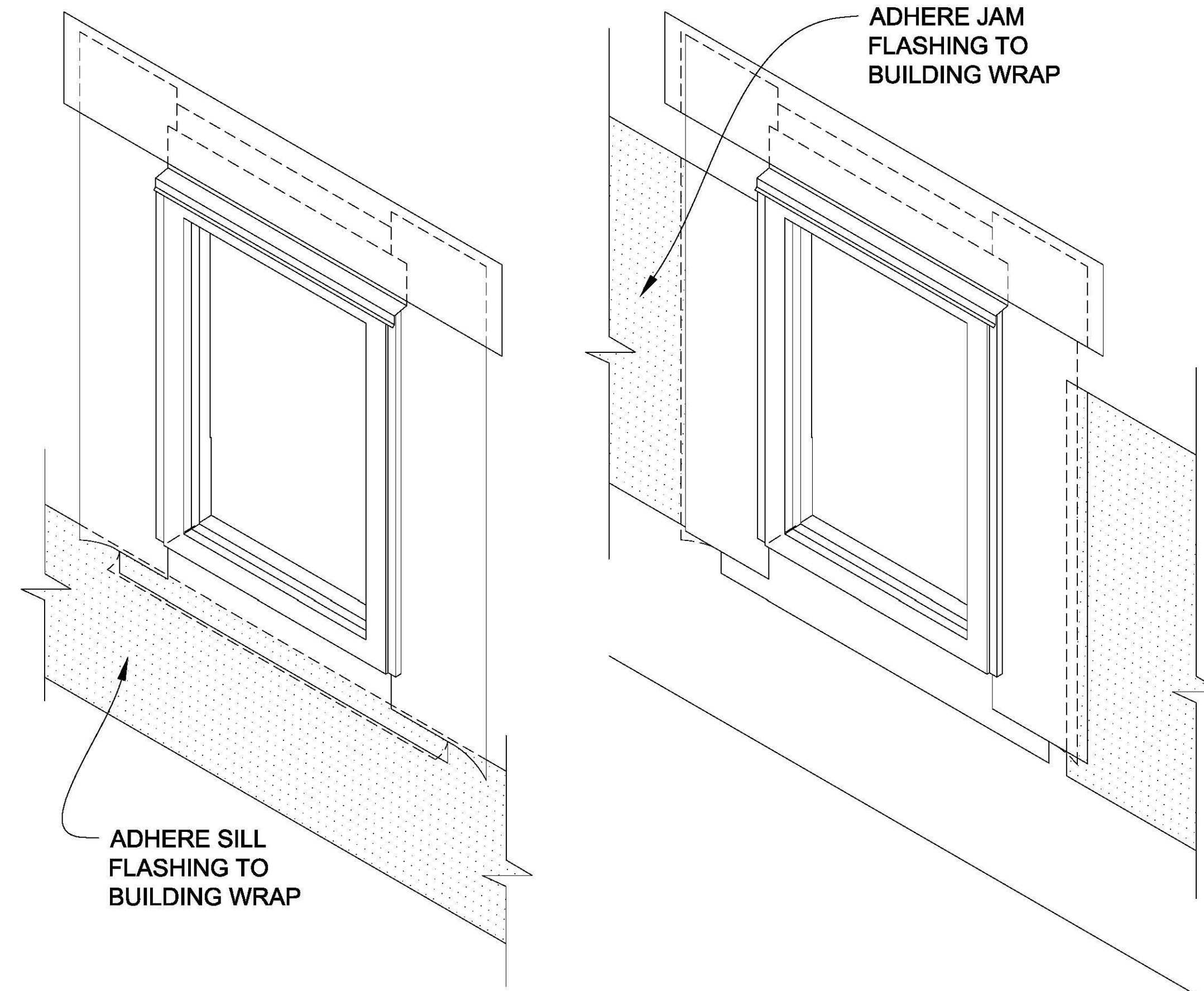
STEP 6 - SECOND SAF JAMB



STEP 7 - METAL HEAD FLASHING STEP 8 - SAF HEAD FLASHING



STEP 9 - BUILDING WRAP



1 WINDOW FLASHING INSTALLATION  
 SCALE: 1" = 1'-0"

NOTE: HOSE TEST FIRST WINDOW INSTALLED TO TEST FOR WATER INFILTRATION

6/29/2022 11:23:01 AM



# GENERAL STRUCTURAL NOTES (CONTINUED)

THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS

## MASONRY

36. ADHERED MASONRY VENEER, 2-5/8" MAXIMUM THICKNESS AND 15 PSF MAXIMUM UNIT WEIGHT, SHALL BE ADHERED TO BACKING WALLS PER SECTION 1404.10 OF THE IBC. ADHERED MASONRY SHALL BE ABLE TO DEVELOP A SHEAR STRENGTH OF 50 PSI MINIMUM BETWEEN THE BACKING AND THE UNIT IN ACCORDANCE WITH ASTM C482 OR SHALL BE ADHERED PER ARTICLE 3.3C OF TMS 602-16.

## STEEL

37. STRUCTURAL STEEL DESIGN, FABRICATION, AND ERECTION SHALL BE BASED ON:

- A. AISC 360 AND CHAPTER 22 OF THE INTERNATIONAL BUILDING CODE.
- B. APRIL 14, 2010 AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, AMENDED AS NOTED IN THE CONTRACT DOCUMENTS, BY THE DELETION OF PARAGRAPH 4.4.1, AND REVISE REFERENCE FROM "STRUCTURAL DESIGN DRAWINGS" TO "CONTRACT DOCUMENTS" IN PARAGRAPH 3.1.
- C. SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS.

38. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

TYPE OF MEMBER	ASTM SPECIFICATION	Fy
A. WIDE FLANGE SHAPES	A992	50 KSI
B. HP-SHAPES	A572 (GRADE 50)	50 KSI
C. OTHER SHAPES, PLATES, AND RODS	A36	36 KSI
D. STRUCTURAL PIPE	A53 (GRADE B)	35 KSI
E. HOLLOW STRUCTURAL SECTIONS: SQUARE OR RECTANGULAR ROUND	A500 (GRADE C)	50 KSI
F. CONVENTIONAL HIGH-STRENGTH BOLTS (3/4" ROUND, UNO)	A500 (GRADE C)	46 KSI
G. COMMON BOLTS (WOOD APPLICATIONS)	A307	
H. ANCHOR BOLTS	F1554 (GRADE 36)	
I. HEADED SHEAR STUDS	A108	

39. ARCHITECTURALLY EXPOSED STRUCTURAL STEEL SHALL CONFORM TO SECTION 10 OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.

40. ALL A325 CONNECTION BOLTS NEED ONLY BE TIGHTENED TO A SNUG TIGHT CONDITION, DEFINED AS THE TIGHTNESS THAT EXISTS WHEN ALL PLIES IN A JOINT ARE IN FIRM CONTACT. THIS MAY BE ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A PERSON USING AN ORDINARY SPUD WRENCH.

41. ALL WELDING SHALL BE IN CONFORMANCE WITH AISC AND AWS STANDARDS AND SHALL BE PERFORMED BY WABO CERTIFIED WELDERS USING E70XX ELECTRODES. ONLY PREQUALIFIED WELDS (AS DEFINED BY AWS) SHALL BE USED. ALL COMPLETE JOINT PENETRATION GROOVE WELDS SHALL BE MADE WITH A FILLER MATERIAL THAT HAS A MINIMUM CVN TOUGHNESS OF 20 FT-LBS AT -20 DEGREES(F) AND 40 FT-LBS AT 70 DEGREES(F), AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.

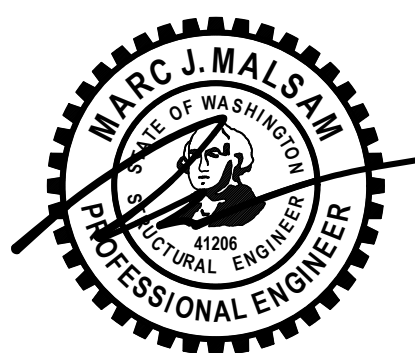
## ABBREVIATIONS

±	PLUS OR MINUS	ES	EACH SIDE	OD	OUTSIDE DIAMETER
∅	DIAMETER	EW	EACH WAY	OF	OUTSIDE FACE
AB	ANCHOR BOLT	EXP	EXPANSION	OPNG	OPENING
ABV	ABOVE	EXT	EXTERIOR	OPP	OPPOSITE
ADDL	ADDITIONAL	FDN	FOUNDATION	OSB	ORIENTED STRAND BOARD
AFF	ABOVE FINISHED FLOOR	FF	FINISHED FLOOR	PAF	POWDER ACTUATED FASTENER
ALT	ALTERNATE	FLR	FLOOR	PEN	PENETRATION
APPROX	APPROXIMATELY	FRMG	FRAMING	PERP	PERPENDICULAR
ARCH	ARCHITECT, ARCHITECTURAL	FRP	FIBER REINFORCED PLASTIC	PL	PLATE
BLDG	BUILDING	FS	FAR SIDE	PL	PROPERTY LINE
BLKG	BLOCKING	FT	FEET	PLF	POUNDS PER LINEAR FOOT
BLW	BELOW	FTG	FOOTING	PLY	PLYWOOD
BLW	BEAM	GA	GAGE, GAUGE	PREFAB	PREFABRICATED
BM	BRICK MASONRY UNIT	GALV	GALVANIZED	PRELIM	PRELIMINARY
BMU	BRICK MASONRY UNIT	GL	GLUE LAMINATED TIMBER	PSF	POUNDS PER SQUARE FOOT
BOE	BOTTOM OF EXCAVATION	GR	GRADE	PSI	POUNDS PER SQUARE INCH
BOT	BOTTOM	GT	GIRDER TRUSS		
BRG	BEARING	GW	GYPFSUM WALLBOARD		
BSMT	BASEMENT	HD	HOLDOWN	PSL	PARALLEL STRAND LUMBER
BTWN	BETWEEN	HDR	HEAD R	PT	PRESSURE TREATED LUMBER
C	CAMBER	HF	HEAD FIR	P-T	POST-TENSIONED
CBF	CONCENTRICALLY BRACED FRAME	HGR	HANGER	R	RADIUS
CGS	CENTER GRAVITY OF STEEL	HM	HIP MASTER	REF	REFERENCE
CIP	CAST IN PLACE CONTROL JOINT	HORIZ	HORIZONTAL	REINF	REINFORCING
CJ	COMPLETE JOINT PENETRATION	HSS	HOLLOW STRUCTURAL SECTION	REQD	REQUIRED
CJP	COMPLETE JOINT PENETRATION	IBC	INTERNATIONAL BUILDING CODE	RET	RETAINING
CLG	CENTERLINE	ID	INSIDE DIAMETER	RO	ROUGH OPENING
CLR	CLEAR	IE	INVERT ELEVATION	SCHED	SCHEDULE
CMU	CONCRETE MASONRY UNIT	IF	INSIDE FACE	SECT	SECTION
COL	COLUMN	IN	INCH	SF	SQUARE FOOT
CONC	CONCRETE	INSUL	INSULATION	SHTG	SHEATHING
CONN	CONNECTION	IRC	INTERNATIONAL RESIDENTIAL CODE	SIM	SIMILAR
CONSTR	CONSTRUCTION	INT	INTERIOR	SOG	SLAB ON GRADE
CONST	CONTINUOUS	JST	JOIST	SPEC	SPECIFICATIONS
COORD	COORDINATE	K	KIPS (1000 POUNDS)	SQ	SQUARE
CP	COMPLETE JOINT PENETRATION	KP	KIPS POST	SR	STUD RAIL
CTR	CENTER	KSF	KIPS PER SQ FT	SS	STAINLESS STEEL
CTRD	CENTERED	L	ANGLE	STAGG	STAGGER/STAGGERED
CY	CUBIC YARD	L	LENGTH	STD	STANDARD
DBL	DOUBLE	LBS	POUNDS	STIFF	STIFFENER
DEMO	DEMOLISH	LF	LINEAL FOOT	STL	STEEL
DET	DETAIL	LL	LINE LOAD	STRUCT	STRUCTURAL
DEV	DEVELOPMENT	LLH	LONG LEG	SW	SHEARWALL
DI	DIAMETER	LLV	LONG LEG VERTICAL	SYM	SYMMETRICAL
DIA	DIAGONAL	LOC	LOCATE, LOCATION	T&G	TONGUE AND GROOVE
DIAG	DIAGONAL	LONG	LONGITUDINAL	TDS	TIE DOWN SYSTEM
DIM	DIMENSION	LSH	LONG SLOTTED HOLE	TEMP	TEMPORARY
DIST	DISTRIBUTED	LSL	LAMINATED STRUCTURAL LUMBER	THK	THICKNESS
DL	DEAD LOAD	LVL	LAMINATED VENEER LUMBER	THKD	THICKNESS
DN	DOWN	MAT	MATERIAL	THRD	THREADED
DO	DITTO	MAX	MAXIMUM	THRU	THROUGH
DP	DEEP/DEPTH	MB	MACHINE BOLT	TOW	TOP OF WALL
DS	DRAG STRUT	MECH	MECHANICAL	TRIPLE	TRIPLE
DWGS	DRAWINGS	MFR	MANUFACTURE	TRANSV	TRANSVERSE
(E)	EXISTING	MIN	MINIMUM	TYP	TYPICAL
EA	EACH END	MISC	MISCELLANEOUS	UNO	UNLESS NOTED OTHERWISE
EE	EACH END	MRF	MOMENT RESISTANT FRAME	VERT	VERTICAL
EF	EACH FACE	MTL	METAL	VIF	VERIFY IN FIELD
EL	ELEVATION	NO	NUMBER	W	WITH
ELEV	ELEVATOR	NOM	NOMINAL	W/O	WITHOUT
EMBED	EMBEDMENT	NS	NEAR SIDE	WD	WOOD
ENGR	ENGINEER	NTS	NOT TO SCALE	WHS	WELDED HEADED STUD
EQ	EQUAL	oc	ON CENTER	WP	WORKING POINT
EQUIP	EQUIPMENT			WTS	WELDED THREADED STUD
EQUIV	EQUIVALENT			WWW	WELDED WIRE MESH



122 S. JACKSON ST. - SUITE 210  
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PROJECT NO 0329.2022.01.01  
PROJECT MANAGER WAC  
DRAWN JSD  
ENGINEER BLAKE RASSILYER  
206.602.5452  
BLAKER@MALSAM-TSANG.COM

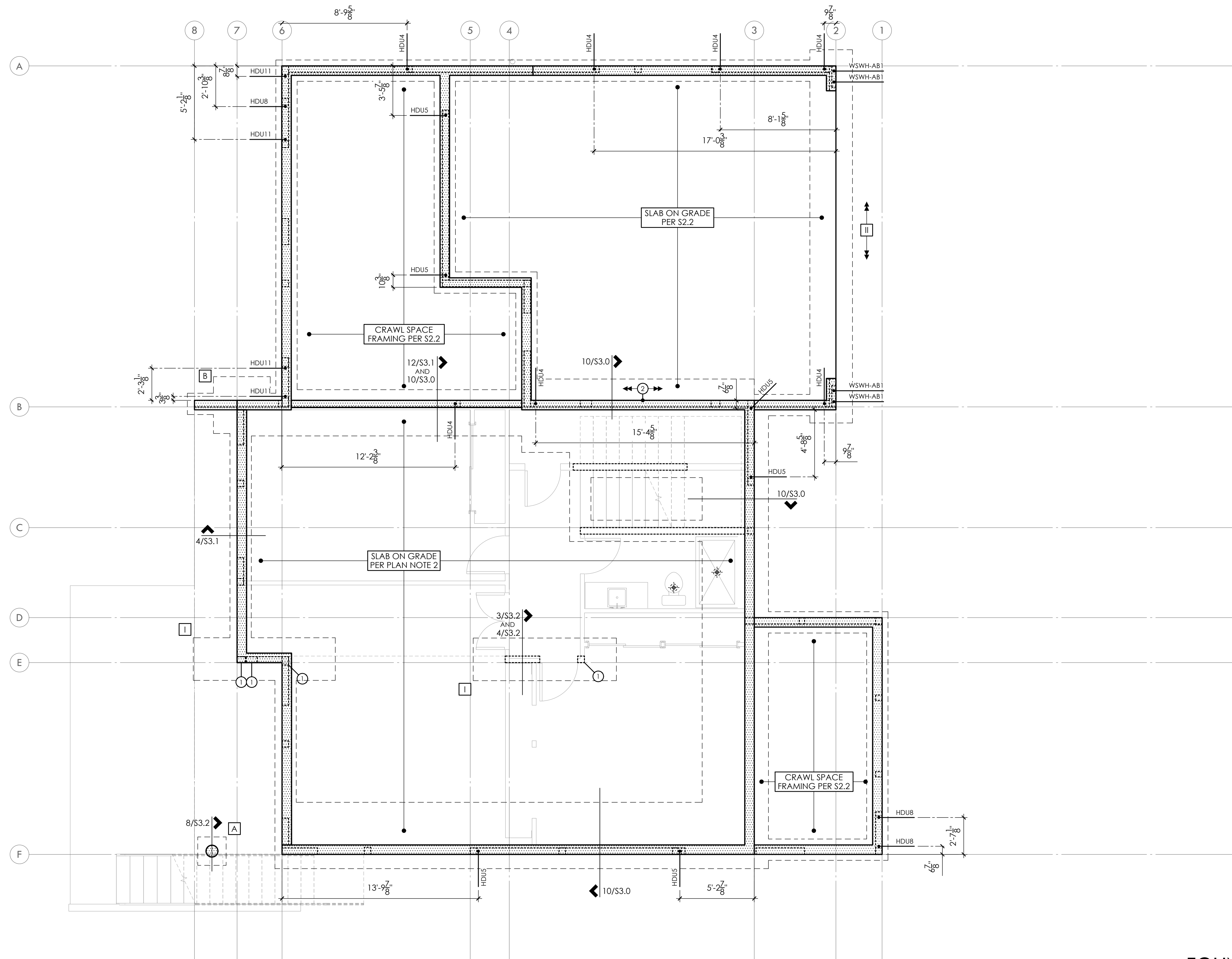
REV	DESCRIPTION	DATE
	PERMIT SET	5.27.22

ARCH JULIAN WEBER ARCH + DESIGN  
206.953.1305  
CLIENT COOMBES DEVELOPMENT

GENERAL STRUCTURAL NOTES

S1.1

SCALE - NTS



**PLAN NOTES**

1. BOTTOM OF ALL FOOTINGS SHALL BE 18" MINIMUM BELOW LOWEST ADJACENT GRADE, UNO.
2. SLAB ON GRADE SHALL BE 4" MINIMUM THICKNESS. REINFORCE WITH 6x6 W1.4 x W1.4 WWM CENTERED IN SLAB. PROVIDE RIGID INSULATION AT INTERIOR SPACES AND VAPOR BARRIER BELOW SLAB PER ARCHITECTURAL DRAWINGS OVER 4" MINIMUM FREE DRAINING GRAVEL OVER FIRM NATIVE SOILS OR STRUCTURAL FILL PER SOILS ENGINEER.
3. REFER TO SHEET S3.0 FOR TYPICAL FOUNDATION AND CONCRETE DETAILS.
4. STD HOLDDOWNS ARE DIMENSIONED TO THE CENTERLINE OF STRAP. HDU HOLDDOWNS ARE DIMENSIONED TO THE CENTERLINE OF ANCHOR BOLT. DIMENSIONS ARE BASED OFF OF DRAWINGS PROVIDED BY THE ARCHITECT AND SHOULD BE VERIFIED.
5. REFER TO GENERAL STRUCTURAL NOTES SHEET S1.0 FOR ADDITIONAL REQUIREMENTS.
6. DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.

**LEGEND**

- CONCRETE WALL BELOW
- STRUCTURAL WALL ABOVE
- SPAN AND EXTENTS
- HEADER/BEAM BELOW FRAMING - TYP
- NUMBER OF BUILT UP STUDS
- PLUMBING PENETRATION ABOVE
- HORIZ CS16 x 3'-0" - BEAM TO BEAM

**FOOTNOTES**

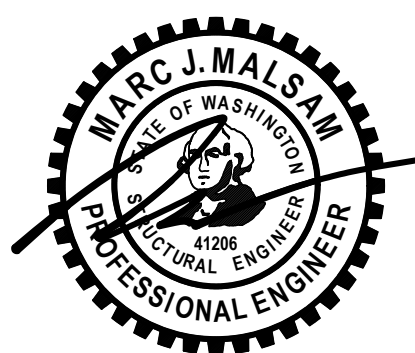
1. POST ABOVE TO BEAR DIRECTLY ON FOUNDATION w/ (2) LAYERS OF BUILDING PAPER AND (2) A35 TO BOTTOM PLATE
2. CONSTRUCT RETAINING WALL FOR H+2' PER 10/S3.0 FOR VEHICULAR SURCHARGE

**FOUNDATION PLAN**

BASEMENT WALLS SHOWN DASHED

**FOOTING SCHEDULE**

MARK	SIZE	REINFORCING
A	2'-0" SQ x 8" DP	(3) #4 EW BOT
B	4'-0" SQ x 16" DP	(7) #4 EW BOT
I	CONT 3'-0" W x 10'-0" L x 16" DP	#5 AT 8" OC BOT
II	CONT 3'-0" W x 18" DP	#5 AT 6" OC TOP AND BOT



PROJECT NO 0329.2022.01.01  
PROJECT MANAGER WAC  
DRAWN JSD  
ENGINEER BLAKE RASSILYER  
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REV	DESCRIPTION	DATE
	PERMIT SET	5.27.22

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CLIENT COOMBS DEVELOPMENT

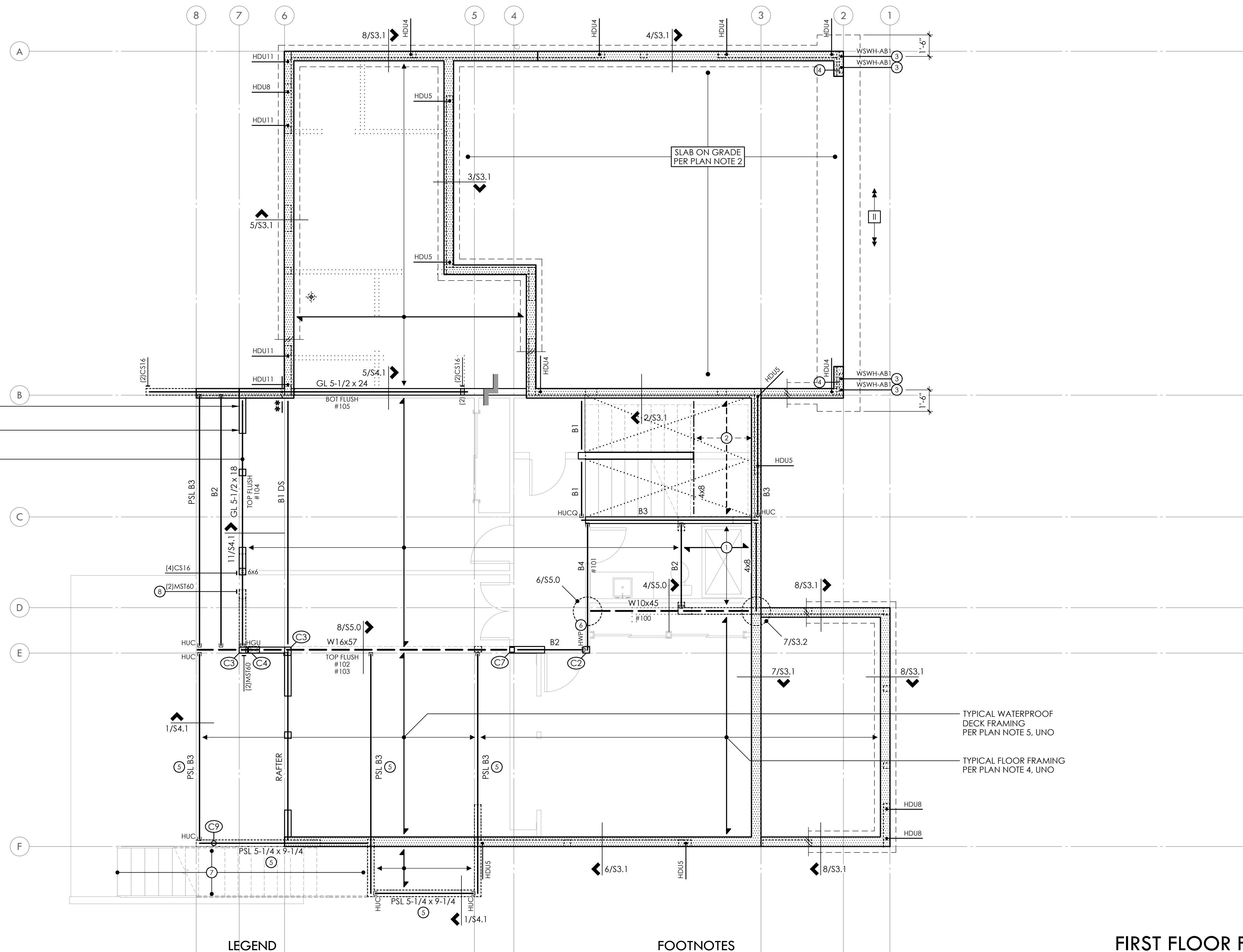
**FOUNDATION PLAN**

**S2.1**  
SCALE - 1/4" = 1'-0"



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Revised By: hwp  
Revised Date: 07/26/2022 - 3:44pm



ALL EXTERIOR WALLS SW6  
PER PLAN NOTE 7, UNO  
TYPICAL WALL FRAMING  
PER PLAN NOTE 11, UNO  
ALL REQUIRED HEADERS ARE SHOWN  
ON PLAN PER PLAN NOTE 8. CONT RIM  
TO SPAN OVER EXT OPENINGS AND  
HANG JOISTS TO RIM OR BEAM w/  
IUS SERIES HANGER WHERE HEADERS  
ARE NOT PROVIDED, UNO PROVIDE  
CS16 x 30" AT ALL RIM JOIST SPLICES

**COLUMN SCHEDULE**

MARK	SIZE	TOP	BOT	AT STEEL
C1	PSL 5-1/4 x 5-1/4	(2)A35	(2)A35	-
C2	PSL 5-1/4 x 5-1/4	ECCQ	A	7/S5.0
C3	PSL 5-1/4 x 7	-	A	7/S5.0
C4	PSL 5-1/4 x 9-1/4	(2)A35	A	-
C5	PSL 5-1/4 x 9-1/4	-	(2)A35	7/S5.0
C6	HSS 4x4x1/4	-	12/S5.0	12/S5.0
C7	HSS 4x4x1/4	-	3/S3.2 & 4/S3.2	12/S5.0
C8	HSS 4Ø x 0.22	3/S5.0	2/S5.0	-
C9	HSS 4Ø x 0.22	3/S5.0	8/S3.2	-

A POST TO BEAR DIRECTLY ON FOUNDATION WALL w/ (2)LAYERS OF BUILDING PAPER AND (2)A35 TO SILL PLATE

**PLAN NOTES**

- BOTTOM OF ALL FOOTINGS SHALL BE 18" MINIMUM BELOW LOWEST ADJACENT GRADE, UNO.
- SLAB ON GRADE SHALL BE 4" MINIMUM THICKNESS. REINFORCE WITH 6x6 W1.4 x W1.4 WMM CENTERED IN SLAB. PROVIDE RIGID INSULATION AT INTERIOR SPACES AND VAPOR BARRIER BELOW SLAB PER ARCHITECTURAL DRAWINGS OVER 4" MINIMUM FREE DRAINING GRAVEL OVER FIRM NATIVE SOILS OR STRUCTURAL FILL PER SOILS ENGINEER.
- REFER TO SHEET S3.0 FOR TYPICAL FOUNDATION AND CONCRETE DETAILS.
- TYPICAL FLOOR FRAMING CONSISTS OF 3/4" T&G APA RATED SHEATHING (SPAN RATING 48/24) OVER TJI'S PER JOIST SCHEDULE, UNO. PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS THAT EXTEND OVER MORE THAN HALF THE JOIST LENGTH.
- TYPICAL WATER PROOF DECK FRAMING CONSISTS OF 3/4" T&G APA RATED SHEATHING (SPAN RATING 48/24) OVER LVL 1-3/4 x 11-7/8 AT 16"oc, UNO. JOISTS CAN BE TAPERED TO A MIN DEPTH OF 8".
- GLUE AND NAIL FLOOR SHEATHING w/ 8d AT 6"oc AT FRAMED PANEL EDGES AND AT 12"oc IN THE FIELD, UNO.
- "SW" INDICATES SHEARWALL BELOW FRAMING SHOWN. REFER TO SHEARWALL SCHEDULE ON 4/S4.0 FOR ADDITIONAL INFORMATION. ALL EXTERIOR WALLS ARE SW6, UNO.
- ALL REQUIRED HEADERS ARE SHOWN ON PLAN AND SHALL BE (2)2x8, UNO. REFER TO DETAIL 8/S4.0 FOR ADDITIONAL REQUIREMENTS.
- PROVIDE (2)BEARING (TRIMMER) STUDS AT EACH END OF ALL HEADERS AND BEAMS 6'-0" IN LENGTH AND OVER, UNO.
- WHERE POSTS OCCUR, PROVIDE SOLID VERTICAL GRAIN BLOCKING THRU FLOOR TO MATCHING SUPPORTS BELOW, UNO.
- TYPICAL FLOOR FRAMING CONSISTS OF 2x6's AT 16"oc AT EXTERIOR WALLS AND 2x4's or 2x6's AT 16"oc AT INTERIOR WALLS PER ARCH DRAWINGS, UNO.
- REFER TO SHEET S4.0 FOR TYPICAL WOOD FRAMING DETAILS.
- STHD HOLDOWNS ARE DIMENSIONED TO THE CENTERLINE OF STRAP. HDU HOLDOWNS ARE DIMENSIONED TO THE CENTERLINE OF ANCHOR BOLT. DIMENSIONS ARE BASED OFF OF DRAWINGS PROVIDED BY THE ARCHITECT AND SHOULD BE VERIFIED.
- REFER TO GENERAL STRUCTURAL NOTES SHEET S1.0 FOR ADDITIONAL REQUIREMENTS.
- DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.

**LEGEND**

- CONCRETE WALL BELOW
- STRUCTURAL WALL BELOW
- STRUCTURAL WALL ABOVE
- SPAN AND EXTENTS
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- (2)HORIZ CS16 x 3'-0" - BEAM TO BEAM

**FOOTNOTES**

- WATER PROOF DECK FRAMING CONSISTS OF 3/4" T&G APA RATED SHEATHING (SPAN RATING 48/24) OVER 2x10's AT 24"oc, UNO. JOISTS CAN BE TAPERED TO A MIN DEPTH OF 8"
- LANDING FRAMING CONSISTS OF 2x8's AT 16"oc w/ LUS HANGER TO 2X LEDGER w/ (2)0.22"Øx6" SDWS TIMBER SCREWS AT 16"oc INTO EA STUD
- LOCATE ANCHOR BOLT FOR WSWH ABOVE USING WSWH-RT ANCHOR BOLT TEMPLATE- PROVIDE WSWH-HSR EXTENSION KIT AS REQUIRED TO EXTEND TO FOOTING BELOW w/ 12" EMBEDMENT
- PROVIDE ADDITIONAL STEMWALL REINFORCEMENT AT WSWH PER MANUFACTURER'S REQUIREMENTS
- NOTCH AND TAPER BEAM TO MATCH JOIST DEPTH - 8" MIN, NO OVERCUTS
- OFFSET TOP FLANGE HANGER
- PREFABRICATED STAIR ASSEMBLY BY OTHERS BY DEFERRED SUBMITTAL
- INSTALL HOLDOWN STRAP TO FACE OF BEAM FOR FULL DEPTH OF BEAM

**FOOTING SCHEDULE**

MARK	SIZE	REINFORCING
A	2'-0" SQ x 8" DP	(3)#4 EW BOT
B	4'-0" SQ x 16" DP	(7)#4 EW BOT
I	CONT 3'-0" W x 10'-0" L x 16" DP	#5 AT 8"oc BOT
II	CONT 3'-0" W x 18" DP	#5 AT 6"oc TOP AND BOT

**FIRST FLOOR FRAMING PLAN**

FIRST FLOOR WALLS SHOWN DASHED  
BASEMENT WALLS SHOWN SOLID

**FLUSH BEAM SCHEDULE**

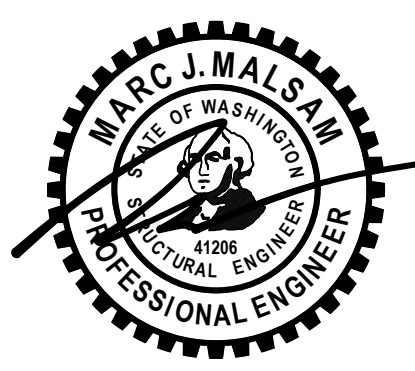
MARK	SIZE	BRG STUDS	HANGER
B1	LSL 1-3/4 x 11-7/8	2	HUS1.81/10
B2	GL 3-1/2 x 11-7/8 OR LSL 3-1/2 x 11-7/8	2	HHUS410 HHUS410
B3	GL 5-1/2 x 11-7/8 OR PSL 5-1/4 x 11-7/8	3	HGUS5.50/10 HGUS5.50/10
B4	PSL 7 x 11-7/8	4	HGUS7.25/10

① ALL GLULAM BEAMS ARE 24F-V4 - UNO  
② PROVIDE HUC410 WHERE REQUIRED - UNO

**JOIST SCHEDULE**

MAX LENGTH	SIZE	SPACING	FACE MOUNT HANGER	TOP FLANGE HANGER
18'-0"	11-7/8" TJI 110	16"oc	IUS1.81/11.88	ITS1.81/11.88
18'-9"	11-7/8" TJI 210	16"oc	IUS2.06/11.88	ITS2.06/11.88
19'-3"	11-7/8" TJI 230	16"oc	IUS2.37/11.88	ITS2.37/11.88
20'-0"	11-7/8" TJI 360	16"oc	IUS2.37/11.88	ITS2.37/11.88
22'-0"	11-7/8" TJI 560	16"oc	IUS3.56/11.88	ITS3.56/11.88

① DESIGN BASED ON DL=15 PSF, LL=40 PSF, ΔLL < L/480, TJI-PRO RATING OF 40  
② SHEETROCK CEILING APPLIED TO BOTTOM FACE OF JOISTS



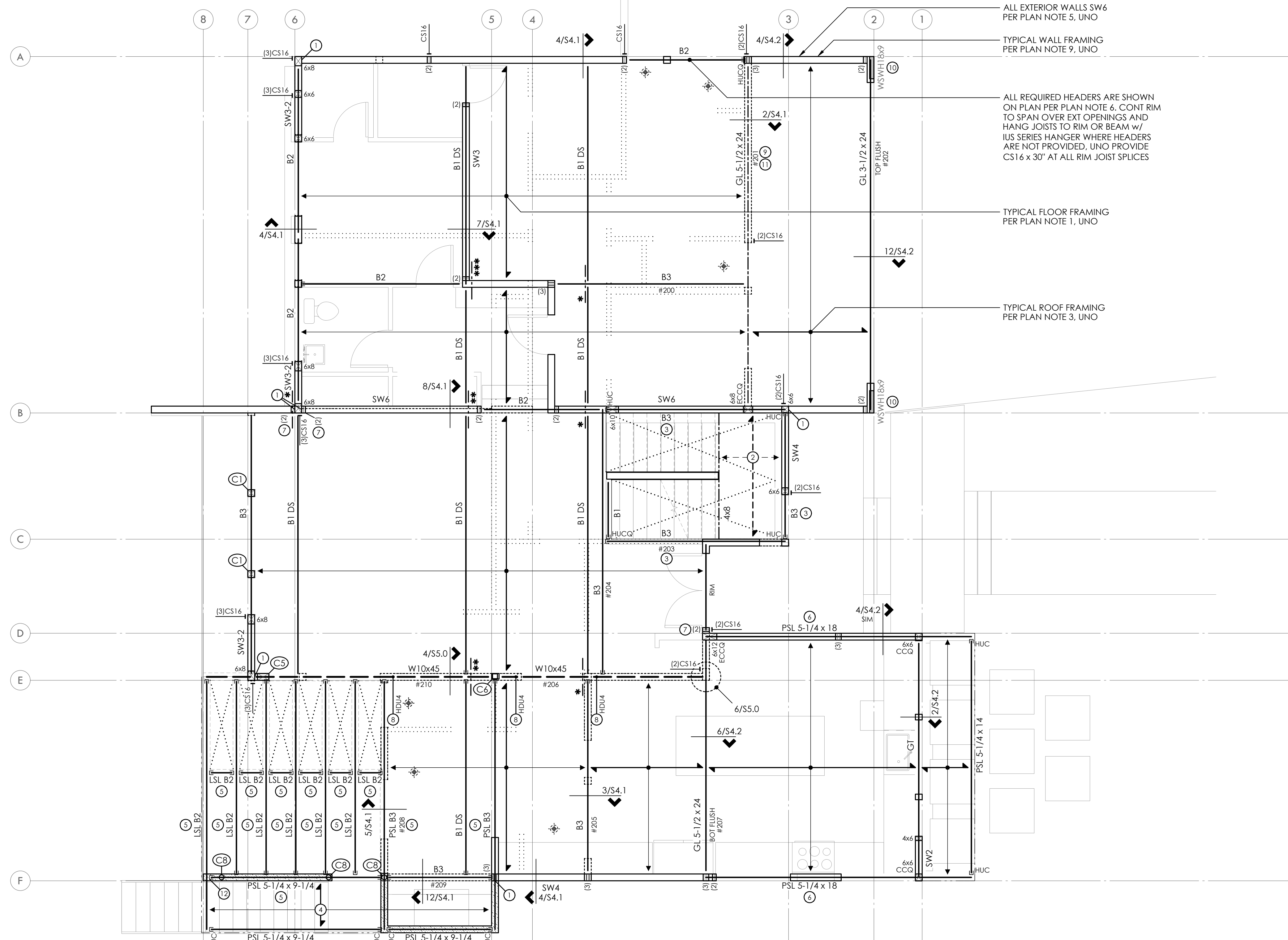
PROJECT NO 0329.2022.01.01  
PROJECT MANAGER WAC  
DRAWN JSD  
ENGINEER BLAKE RASSILYER 206.602.5452  
BLAKER@MALSAM-TSANG.COM

REV	DESCRIPTION	DATE
PERMIT SET		5.27.22

ARCH JULIAN WEBER ARCH + DESIGN 206.953.1305  
CLIENT COOMBS DEVELOPMENT

**FIRST FLOOR FRAMING PLAN**





**COLUMN SCHEDULE**

MARK	SIZE	TOP	BOT	AT STEEL
C1	PSL 5-1/4 x 5-1/4	(2)A35	(2)A35	-
C2	PSL 5-1/4 x 5-1/4	ECCQ	A	7/S5.0
C3	PSL 5-1/4 x 7	-	A	-
C4	PSL 5-1/4 x 9-1/4	(2)A35	A	-
C5	PSL 5-1/4 x 9-1/4	-	(2)A35	7/S5.0
C6	HSS 4x4x1/4	-	12/S5.0	12/S5.0
C7	HSS 4x4x1/4	-	3/S3.2 & 4/S3.2	12/S5.0
C8	HSS 4Ø x 0.22	3/S5.0	2/S5.0	-
C9	HSS 4Ø x 0.22	3/S5.0	8/S3.2	-

A POST TO BEAR DIRECTLY ON FOUNDATION WALL w/ (2) LAYERS OF BUILDING PAPER AND (2) A35 TO SILL PLATE

**PLAN NOTES**

- TYPICAL FLOOR FRAMING CONSISTS OF 3/4" T&G APA RATED SHEATHING (SPAN RATING 48/24) OVER TJI'S PER JOIST SCHEDULE, UNO. PROVIDE DBL JOISTS UNDER ALL PARALLEL PARTITIONS THAT EXTEND OVER MORE THAN HALF THE JOIST LENGTH.
- GLUE AND NAIL FLOOR SHEATHING w/ 8d AT 6"oc AT FRAMED PANEL EDGES AND OVER SHEARWALLS AND AT 12"oc IN FIELD, UNO.
- TYPICAL ROOF FRAMING CONSISTS OF 3/4" T&G APA RATED SHEATHING (SPAN RATING 48/24) OVER PRE-MANUFACTURED TRUSSES AT 24"oc, UNO. TOP CHORD OF TRUSS TO SLOPE A MIN OF 1/4" PER 1'-0". TRUSSES TO BE A MIN DEPTH OF 14". PROVIDE H2.5A AT EACH END OF ALL TRUSSES, AND H2.5A EACH SIDE OF ALL MULTIPLE TRUSSES, UNO. REFER TO ARCH DRAWINGS FOR TRUSS PROFILE.
- NAIL ROOF SHEATHING w/ 8d AT 6"oc AT FRAMED PANEL EDGES AND OVER SHEARWALLS, AND AT 12"oc IN THE FIELD, UNO.
- "SW" INDICATES SHEARWALL BELOW FRAMING SHOWN. REFER TO SHEARWALL SCHEDULE ON 4/S4.0 FOR ADDITIONAL INFORMATION. ALL EXTERIOR WALLS ARE SW6, UNO.
- ALL REQUIRED HEADERS ARE SHOWN ON PLAN AND SHALL BE (2) 2x8, UNO. REFER TO DETAIL 8/S4.0 FOR ADDITIONAL REQUIREMENTS.
- PROVIDE (2) BEARING (TRIMMER) STUDS AT EACH END OF ALL HEADERS AND BEAMS 6'-0" IN LENGTH AND OVER, UNO.
- WHERE POSTS OCCUR, PROVIDE SOLID VERTICAL GRAIN BLOCKING THRU FLOOR TO MATCHING SUPPORTS BELOW, UNO.
- TYPICAL WALL FRAMING CONSISTS OF 2x6's AT 16"oc AT EXTERIOR WALLS AND 2x4's or 2x6's AT 16"oc AT INTERIOR WALLS PER ARCH DRAWINGS, UNO.
- REFER TO SHEET S4.0 FOR TYPICAL WOOD FRAMING DETAILS.
- REFER TO GENERAL STRUCTURAL NOTES SHEET S1.0 FOR ADDITIONAL REQUIREMENTS.
- DO NOT SCALE DRAWINGS. REFER TO ARCH DRAWINGS FOR ALL DIMENSIONS.

**LEGEND**

- STRUCTURAL WALL BELOW
- STRUCTURAL WALL ABOVE
- PARTIAL HEIGHT WALL FRAMED WITH 2x6's AT 16"oc w/ HGA10KT BOT EACH STUD
- SPAN AND EXTENTS
- HEADER/BEAM BELOW FRAMING - TYP
- NUMBER OF BUILT UP STUDS
- PLUMBING PENETRATION ABOVE
- HORIZ CS16 x 3'-0" - BEAM TO BEAM
- (2) HORIZ CS16 x 3'-0" - BEAM TO BEAM
- (3) HORIZ CS16 x 3'-0" - BEAM TO BEAM
- DRAG STRUT - NAIL THRU SHEATHING w/ 8d AT 4"oc INTO ENTIRE LENGTH OF MEMBER
- GIRDER TRUSS

**FOOTNOTES**

- SHEARWALL SHEATHING CONTINUOUS THRU WALL INTERSECTION
- LANDING FRAMING CONSISTS OF 2x8's AT 16"oc w/ LUS HANGER TO 2X LEDGER w/ (2) 0.22"Ø x 6" SDWS TIMBER SCREWS AT 16"oc INTO EA STUD
- PROVIDE 0.22"Ø x 6" SDWS TIMBER SCREWS AT 16"oc THRU DOUBLE TOP PLATE INTO BEAM
- TYPICAL ROOF FRAMING CONSISTS OF 3/4" T&G APA RATED SHEATHING (SPAN RATING 48/24) OVER 2x12's AT 24"oc, UNO. RAFTERS CAN BE TAPERED TO A MIN DEPTH OF 8"
- NOTCH AND TAPER BEAM TO MATCH JOIST DEPTH - 8" MIN, NO OVERCUTS
- NOTCH AND TAPER BEAM TO MATCH JOIST DEPTH - 14" MIN, NO OVERCUTS
- PROVIDE 0.22"Ø x 6" SDWS TIMBER SCREWS AT 12"oc THRU DOUBLE STUDS INTO POST (6 TOTAL)
- PROVIDE ALL-THREAD TO MATCH AB SIZE IN HOLDOWN SCHEDULE - WELD TO TOP OF STEEL BEAM PER DETAIL 1/S5.0
- BEAM BOTTOM FLUSH WITH ROOF FRAMING
- FIELD TRIM SIMPSON STRONG WALL HIGH STRENGTH WOOD SHEARWALL AS REQUIRED AND CONNECT TO BEAM w/ WSWH-TP AND WSWH-PS PER MANUFACTURER'S REQUIREMENTS AND IN ACCORDANCE w/ ESR-2652 - REFER DETAIL 10/S4.1
- INSTALL 2x PLATES w/ 10d AT 4"oc FOR ENTIRE LENGTH OF BEAM AS REQUIRED
- INSTALL HUCQ HANGER UPSIDE DOWN

**SECOND FLOOR FRAMING PLAN**

SECOND FLOOR WALLS SHOWN DASHED  
FIRST FLOOR WALLS SHOWN SOLID

**FLUSH BEAM SCHEDULE**

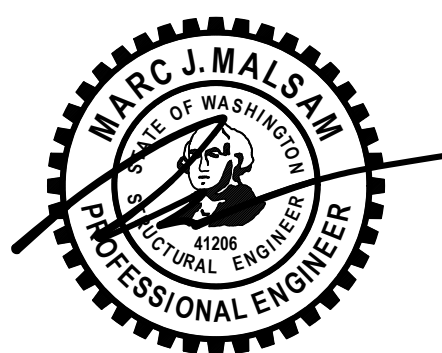
MARK	SIZE	BRG STUDS	HANGER
B1	LSL 1-3/4 x 11-7/8	2	HUS1.81/10
B2	GL 3-1/2 x 11-7/8 OR LSL 3-1/2 x 11-7/8	2	HHUS410
B3	GL 5-1/2 x 11-7/8 OR PSL 5-1/4 x 11-7/8	3	HGUS5.50/10
B4	PSL 7 x 11-7/8	4	HGUS7.25/10

- ① ALL GLULAM BEAMS ARE 24F-V4 - UNO
- ② PROVIDE HUC410 WHERE REQUIRED - UNO

**JOIST SCHEDULE**

MAX LENGTH	SIZE	SPACING	FACE MOUNT HANGER	TOP FLANGE HANGER
18'-0"	11-7/8" TJI 110	16"oc	IUS1.81/11.88	ITS1.81/11.88
18'-9"	11-7/8" TJI 210	16"oc	IUS2.06/11.88	ITS2.06/11.88
19'-3"	11-7/8" TJI 230	16"oc	IUS2.37/11.88	ITS2.37/11.88
20'-0"	11-7/8" TJI 360	16"oc	IUS2.37/11.88	ITS2.37/11.88
22'-0"	11-7/8" TJI 560	16"oc	IUS3.56/11.88	ITS3.56/11.88

- ① DESIGN BASED ON DL=15 PSF, LL=40 PSF, ΔLL < L/480, TJI-PRO RATING OF 40
- ② SHEETROCK CEILING APPLIED TO BOTTOM FACE OF JOISTS

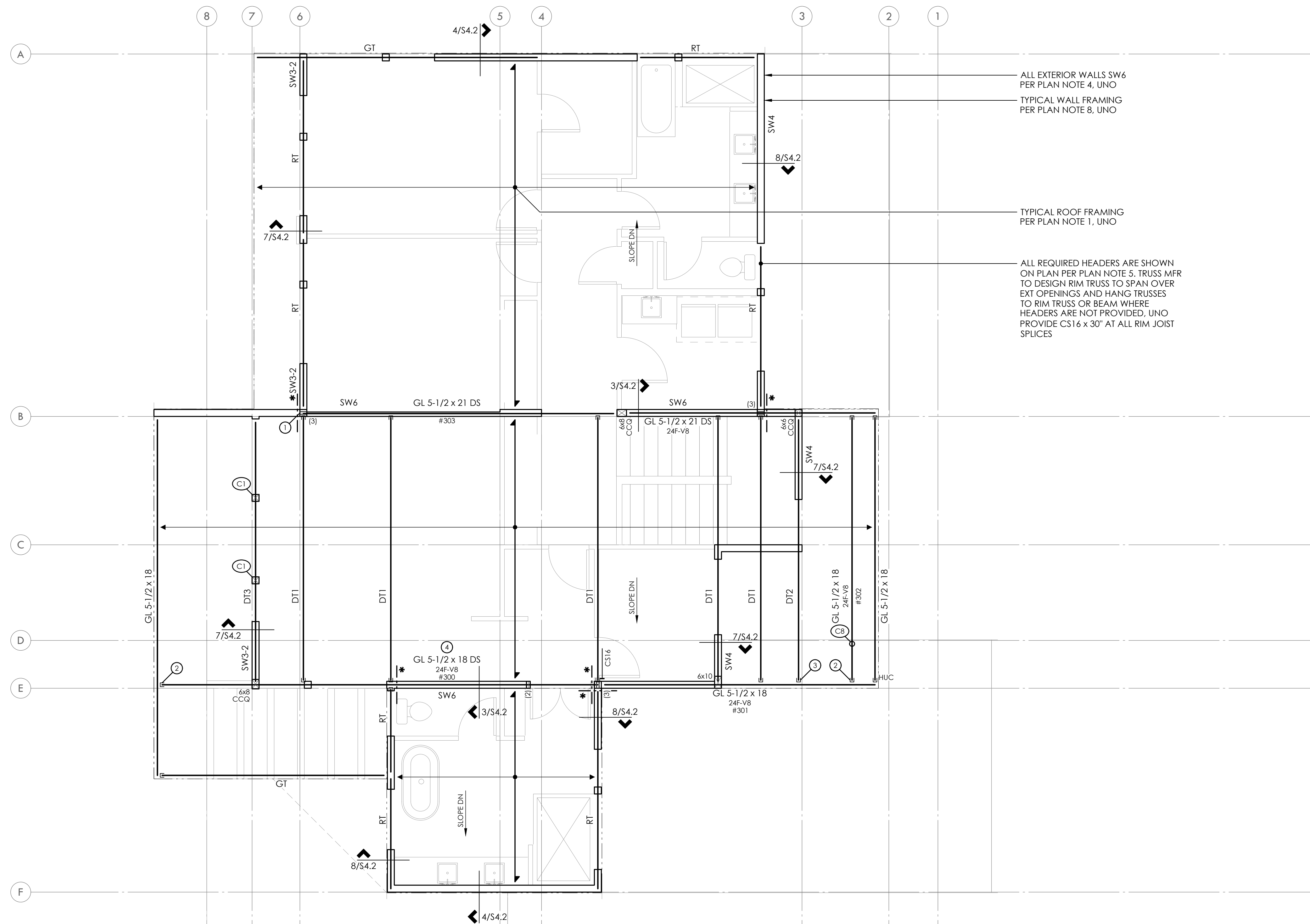


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**SECOND FLOOR FRAMING PLAN**



ALL EXTERIOR WALLS SW6  
PER PLAN NOTE 4, UNO  
TYPICAL WALL FRAMING  
PER PLAN NOTE 8, UNO

TYPICAL ROOF FRAMING  
PER PLAN NOTE 1, UNO

ALL REQUIRED HEADERS ARE SHOWN  
ON PLAN PER PLAN NOTE 5. TRUSS MFR  
TO DESIGN RIM TRUSS TO SPAN OVER  
EXT OPENINGS AND HANG TRUSSES  
TO RIM TRUSS OR BEAM WHERE  
HEADERS ARE NOT PROVIDED, UNO  
PROVIDE CS16 x 30" AT ALL RIM JOIST  
SPLICES

**PLAN NOTES**

- TYPICAL ROOF FRAMING CONSISTS OF 3/4" T&G APA RATED SHEATHING (SPAN RATING 48/24) OVER PRE-MANUFACTURED TRUSSES AT 24"oc, UNO. TOP CHORD OF TRUSS TO SLOPE A MIN OF 1/4" PER 1'-0". TRUSSES TO BE A MIN DEPTH OF 14". PROVIDE H2.5A AT EACH END OF ALL TRUSSES, AND H2.5A EACH SIDE OF ALL MULTIPLE TRUSSES, UNO. REFER TO ARCH DRAWINGS FOR TRUSS PROFILE.
- TYPICAL CRICKET ROOF FRAMING CONSISTS OF 3/4" T&G APA RATED SHEATHING (SPAN RATING 48/24) OVER 2x SLEEPERS AT 24"oc. TOENAIL SLEEPERS w/ (2) 10d AT 24"oc OVER TYPICAL ROOF FRAMING. PROVIDE VENTING HOLES BELOW CRICKET ROOF FRAMING AS REQUIRED.
- NAIL ROOF SHEATHING w/ 8d AT 6" oc AT FRAMED PANEL EDGES AND OVER SHEARWALLS, AND AT 12"oc IN FIELD, UNO.
- "SW\_" INDICATES SHEARWALL BELOW FRAMING SHOWN. REFER TO SHEARWALL SCHEDULE ON 4/S4.0 FOR ADDITIONAL INFORMATION. ALL EXTERIOR WALLS ARE SW6, UNO.
- ALL REQUIRED HEADERS ARE SHOWN ON PLAN AND SHALL BE (2)2x8, UNO. REFER TO DETAIL 8/S4.0 FOR ADDITIONAL REQUIREMENTS.
- PROVIDE (2) BEARING (TRIMMER) STUDS AT EACH END OF ALL HEADERS, BEAMS, AND GIRDER TRUSSES 6'-0" IN LENGTH AND OVER, UNO.
- WHERE POSTS OCCUR, PROVIDE SOLID VERTICAL GRAIN BLOCKING THRU FLOOR TO MATCHING SUPPORTS BELOW, UNO.
- TYPICAL WALL FRAMING CONSISTS OF 2x6's AT 16"oc AT EXTERIOR WALLS AND 2x4's or 2x6's AT 16"oc AT INTERIOR WALLS PER ARCH DRAWINGS, UNO.
- REFER TO SHEET S4.0 FOR TYPICAL WOOD FRAMING DETAILS.
- REFER TO GENERAL STRUCTURAL NOTES SHEET S1.0 FOR ADDITIONAL REQUIREMENTS.
- DO NOT SCALE DRAWINGS. REFER TO ARCH DRAWINGS FOR ALL DIMENSIONS.

**LEGEND**

- STRUCTURAL WALL BELOW
- SPAN AND EXTENTS
- HEADER/BEAM BELOW FRAMING - TYP
- DIRECTION OF SLOPE
- NUMBER OF BUILT UP STUDS
- HORIZ CS16 x 3'-0" - TRUSS TO TRUSS/TOP PLATE TO TOP PLATE
- DRAG STRUT - NAIL THRU SHEATHING w/ 8d AT 4"oc INTO ENTIRE LENGTH OF MEMBER
- DRAG TRUSS - NAIL THRU SHEATHING w/ 8d AT 4"oc INTO ENTIRE LENGTH OF TRUSS
- GIRDER TRUSS
- RIM TRUSS

**FOOTNOTES**

- SHEARWALL SHEATHING CONTINUOUS THRU WALL INTERSECTION
- INSTALL HUCQ HANGER UPSIDE DOWN
- HANGER PER TRUSS MANUFACTURER
- INSTALL 2x PLATES w/ 10d AT 4"oc FOR ENTIRE LENGTH OF BEAM AS REQUIRED TO FLUSH UNDERSIDE OF ROOF SHEATHING

**DRAG TRUSS SCHEDULE**

MARK	LOAD TRANSFER ①②
DT1	1.0 KIPS
DT2	1.5 KIPS
DT3	2.0 KIPS

- TRUSS MFR TO DESIGN TRUSS TO TRANSFER LISTED LOAD FROM TOP TO BOT CHORD
- NAIL THRU SHEATHING w/ 8d AT 4"oc INTO ENTIRE LENGTH OF MEMBER

**ROOF FRAMING PLAN**

SECOND FLOOR WALLS SHOWN SOLID

**COLUMN SCHEDULE**

MARK	SIZE	TOP	BOT	AT STEEL
C1	PSL 5-1/4 x 5-1/4	(2)A35	(2)A35	-
C2	PSL 5-1/4 x 5-1/4	ECCQ	Ⓐ	-
C3	PSL 5-1/4 x 7	-	Ⓐ	7/55.0
C4	PSL 5-1/4 x 9-1/4	(2)A35	Ⓐ	-
C5	PSL 5-1/4 x 9-1/4	-	(2)A35	7/55.0
C6	HSS 4x4x1/4	-	12/55.0	12/55.0
C7	HSS 4x4x1/4	-	3/S3.2 & 4/S3.2	12/55.0
C8	HSS 4Ø x 0.22	3/55.0	2/55.0	-
C9	HSS 4Ø x 0.22	3/55.0	8/53.2	-

- POST TO BEAR DIRECTLY ON FOUNDATION WALL w/ (2)LAYERS OF BUILDING PAPER AND (2)A35 TO SILL PLATE

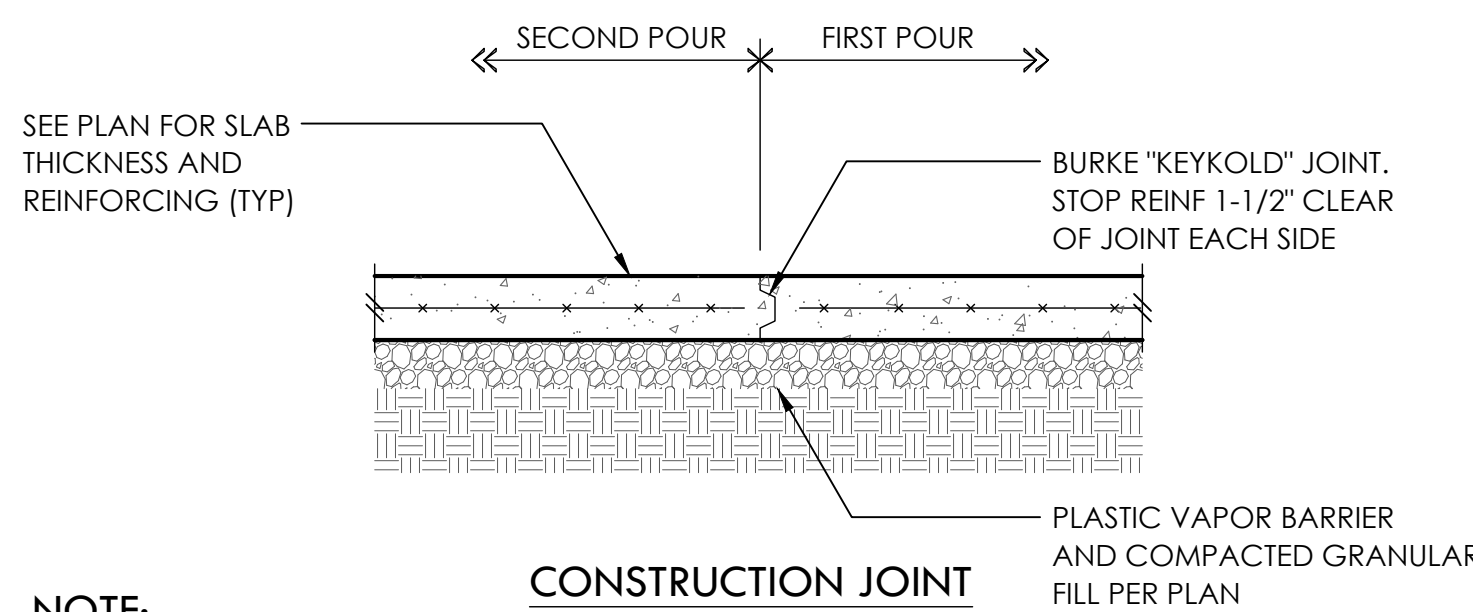
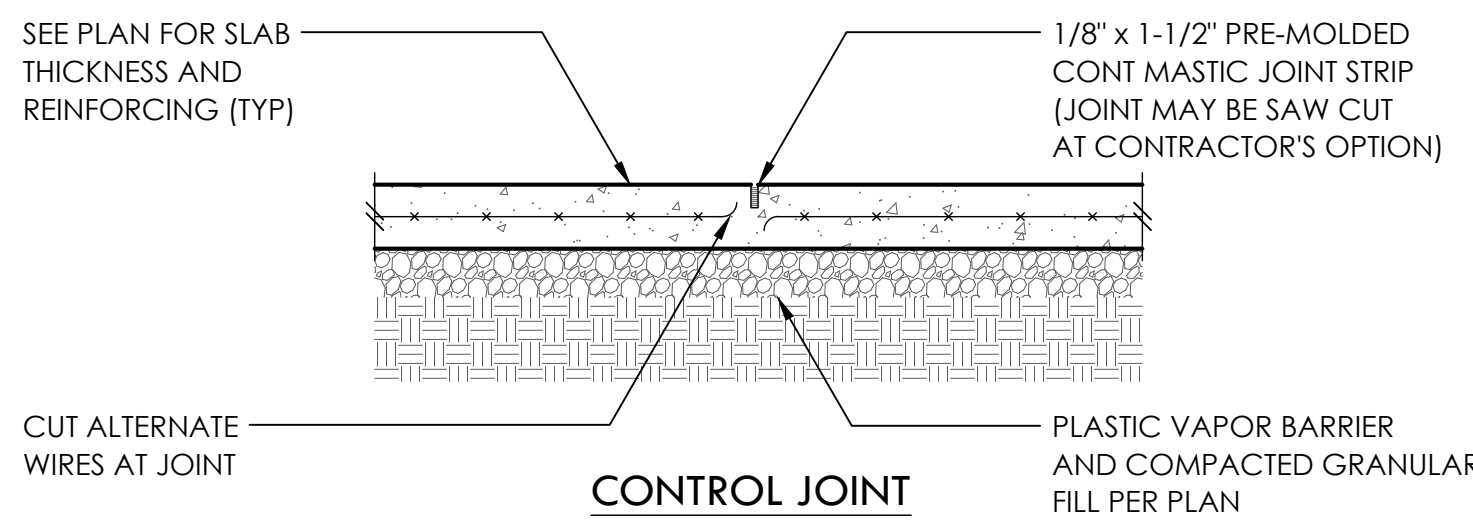


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ENGINEER BLAKE RASSILYER 206.602.5452  
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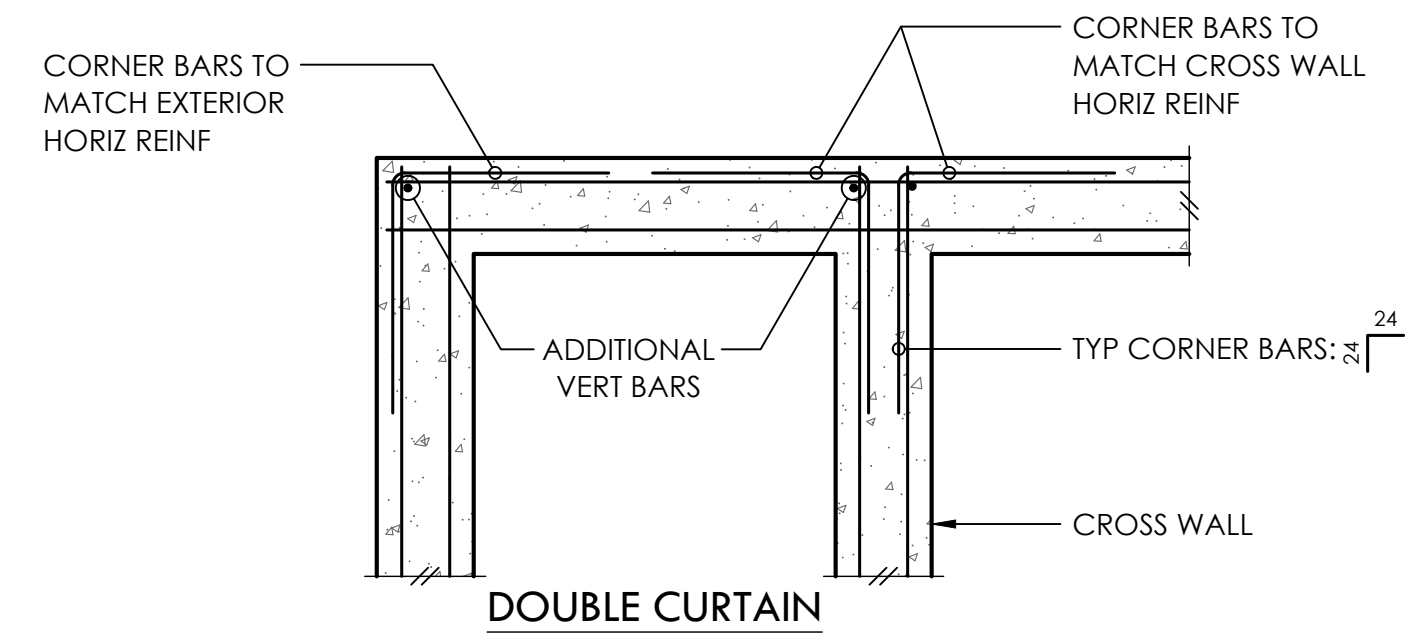
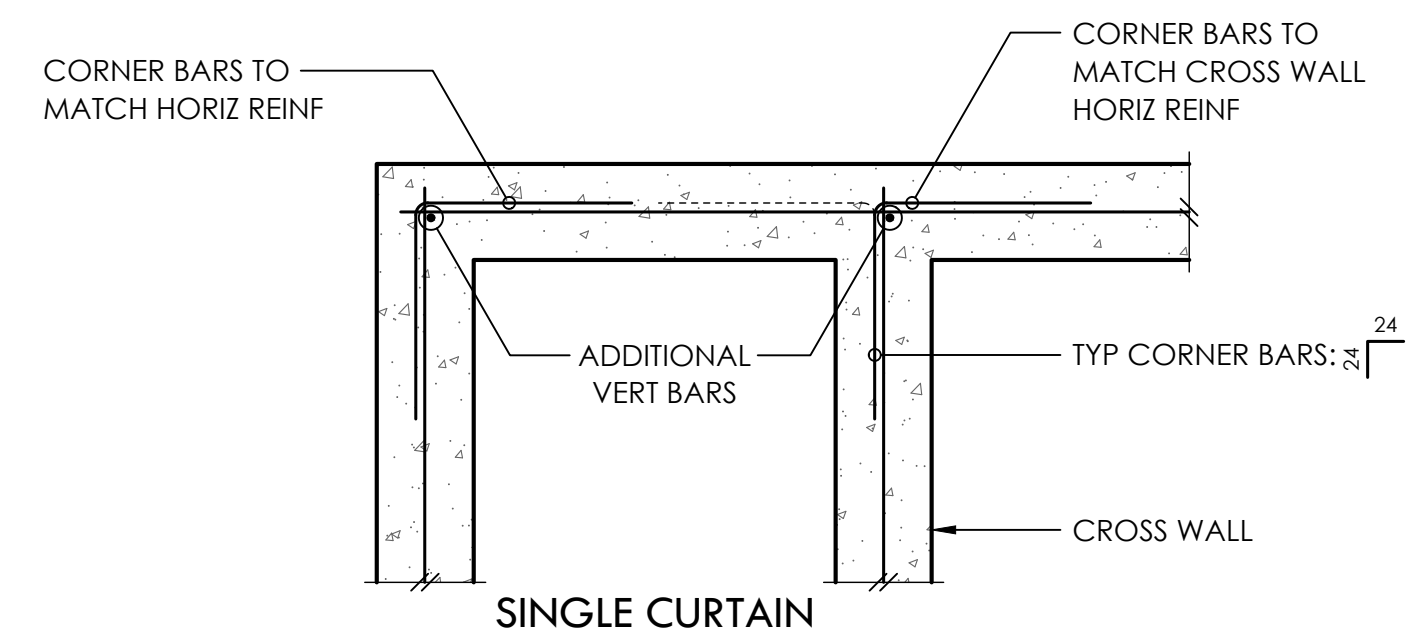
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CLIENT COOMBS DEVELOPMENT

**ROOF FRAMING PLAN**

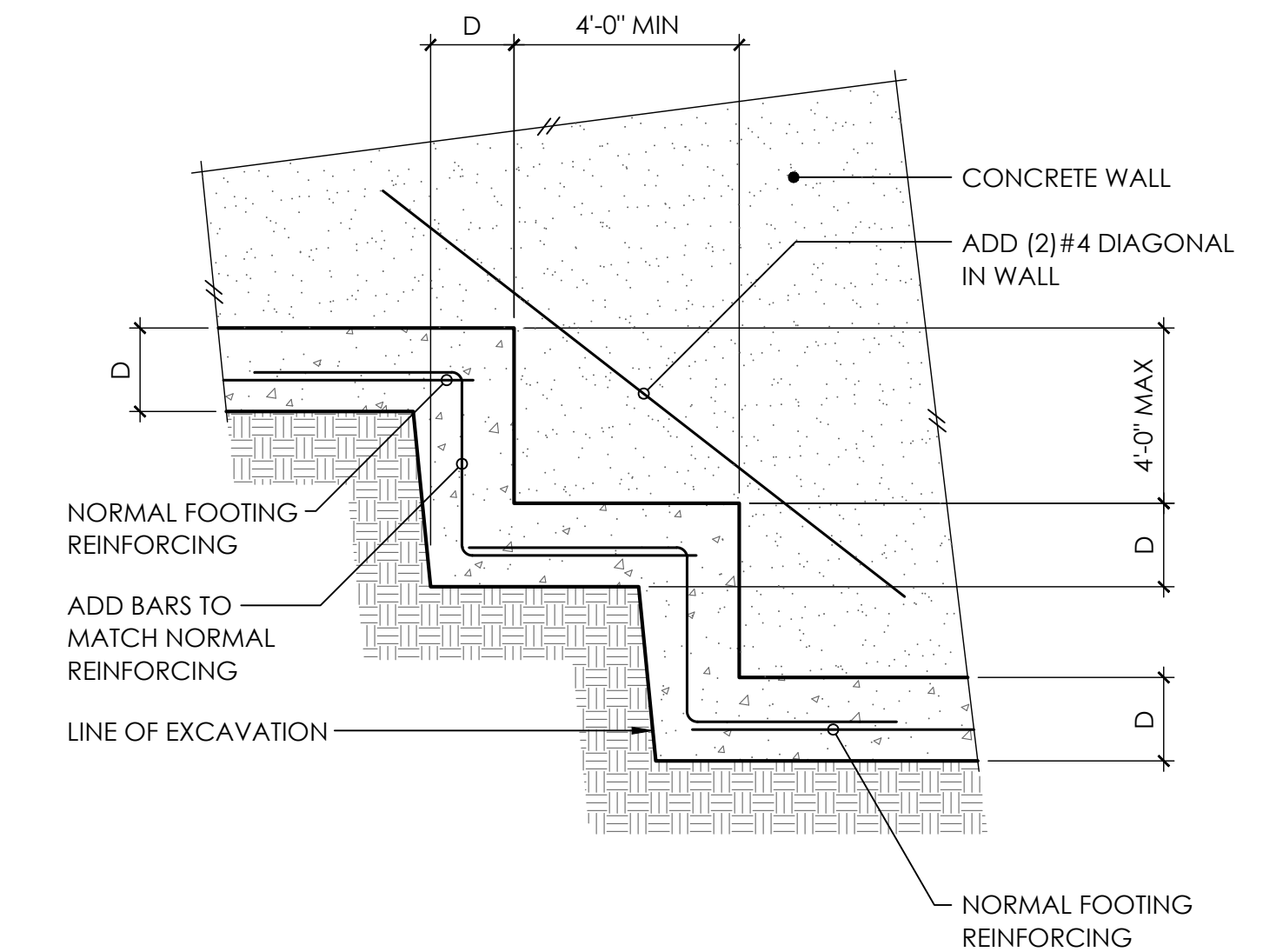
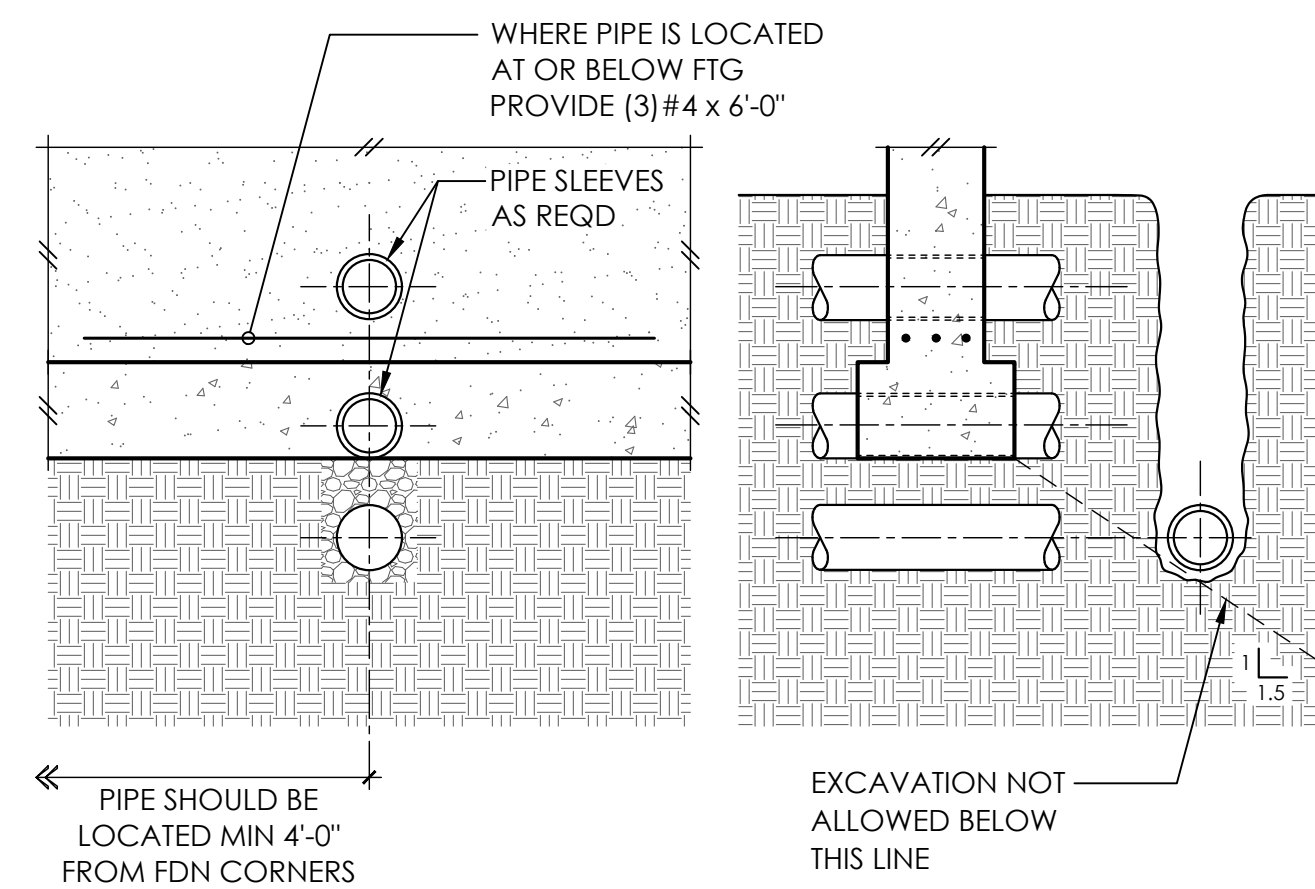


**NOTE:**  
PROVIDE CONTROL OR CONSTRUCTION JOINTS IN SLABS ON GRADE TO BREAK UP SLAB INTO RECTANGULAR AREAS OF 200 SQUARE FEET OR LESS. AREAS TO BE APPROX SQUARE AND HAVE NO ACUTE ANGLES. JOINT LOCATIONS TO BE APPROVED BY THE ARCHITECT.

**TYPICAL SLAB JOINTS**

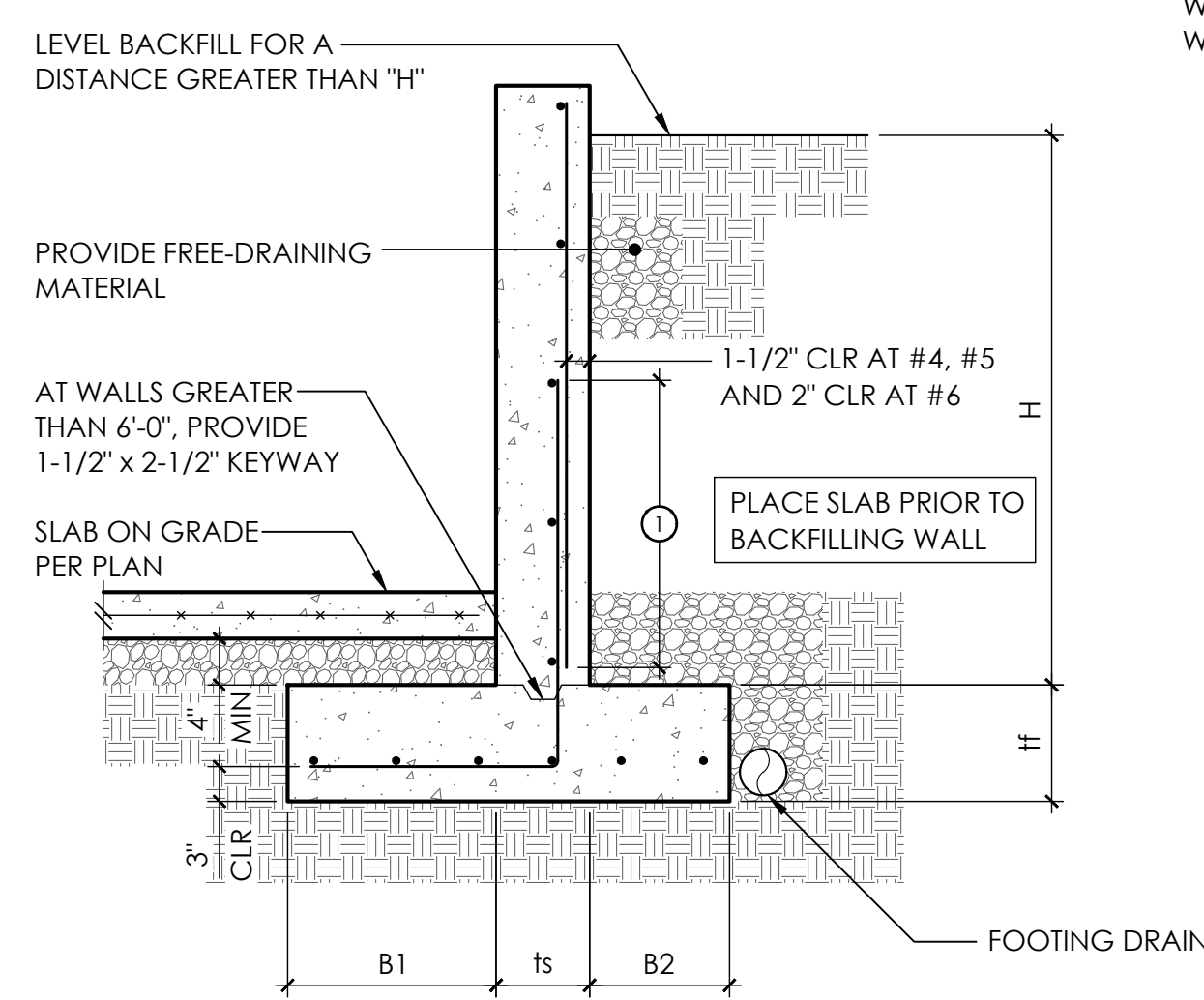


**TYP CORNER BARS AT CONCRETE WALLS AND FTGS**



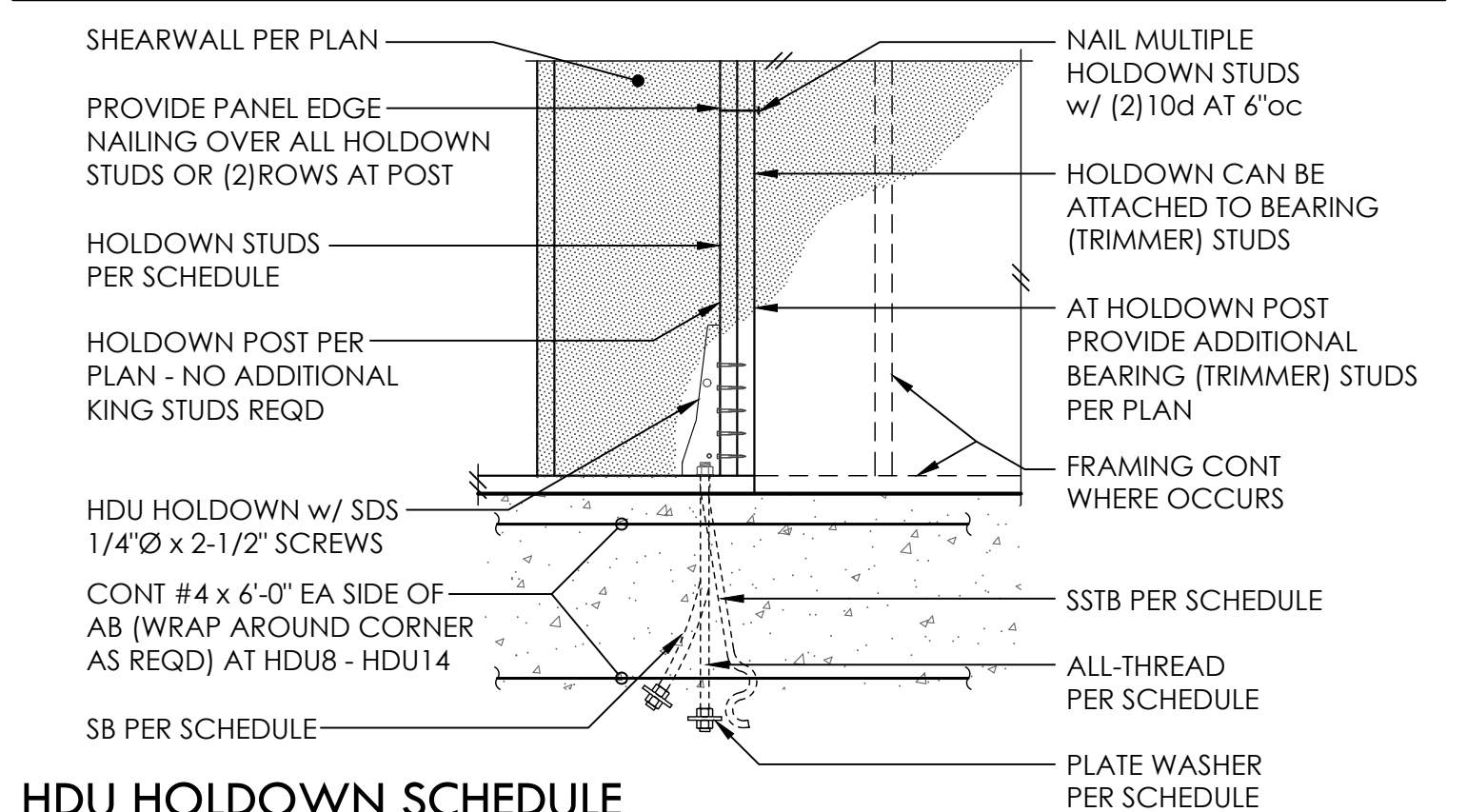
**PIPE AND TRENCH LOCATIONS**

**TYPICAL STEPPED FOOTING**



**NOTE:**  
WHERE RETAINED SOIL SUPPORTS A DRIVE SURFACE WITHIN A DISTANCE 'H' FROM THE FACE OF CONCRETE WALL, PROVIDE FOOTING, WALL, AND REINFORCING FOR A WALL 2'-0\"/>

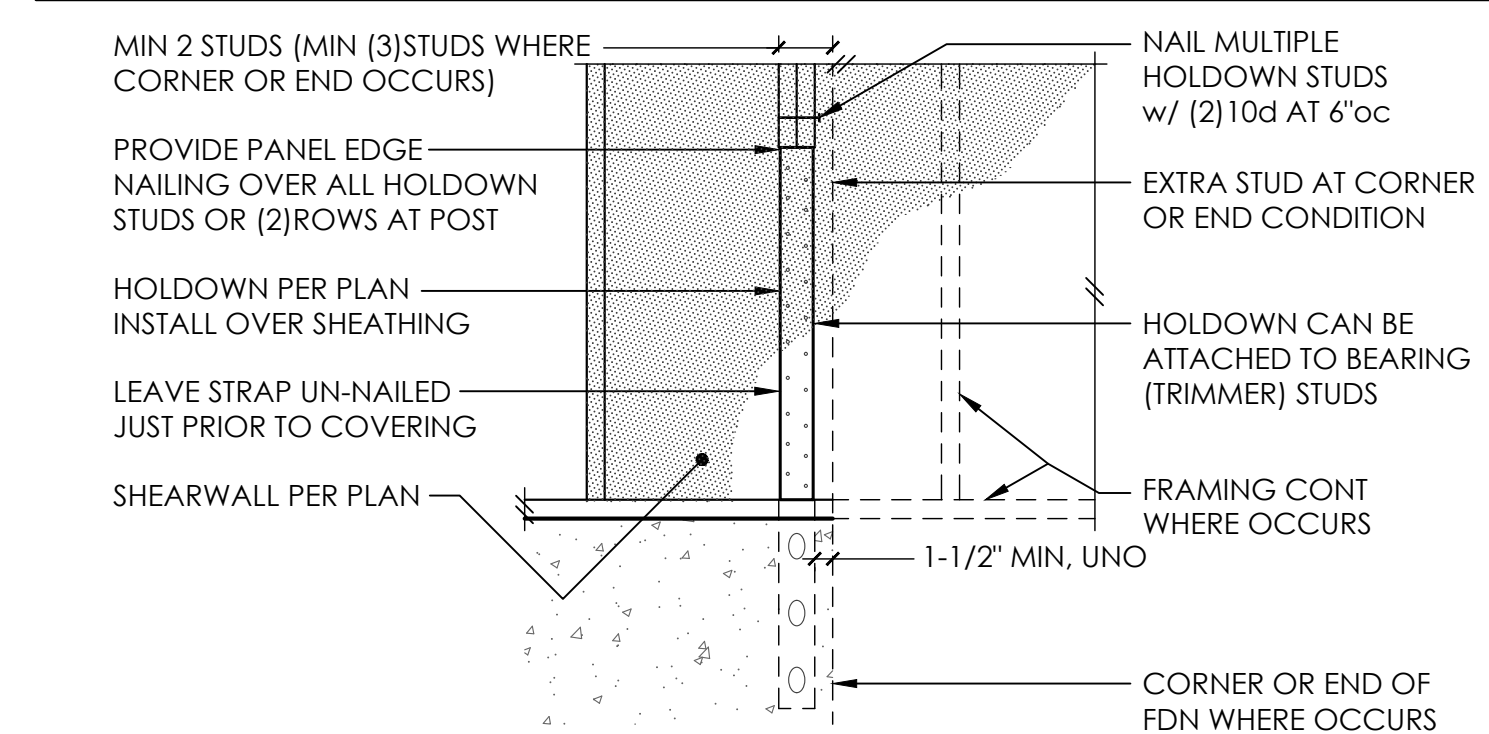
H	B1	ts	B2	tf	STEM REINF		FTG REINF
					VERT	HORIZ	LONG
4'-0"	1'-6"	6"	5"	9"	#4 AT 18"oc	#4 AT 16"oc	(3)#4
5'-0"	1'-3"	8"	5"	9"	#4 AT 18"oc	#4 AT 12"oc	(3)#4
	1'-9"	6"	9"	10"	#4 AT 18"oc	#4 AT 16"oc	(4)#4
	1'-9"	8"	5"	10"	#4 AT 18"oc	#4 AT 12"oc	(4)#4
6'-0"	2'-3"	6"	9"	10"	#4 AT 16"oc	#4 AT 16"oc	(4)#4
	2'-0"	8"	9"	10"	#4 AT 18"oc	#4 AT 12"oc	(4)#4
7'-0"	2'-3"	8"	1'-0"	10"	#4 AT 11"oc	#4 AT 12"oc	(5)#4
8'-0"	3'-0"	8"	1'-0"	12"	#4 AT 9"oc	#4 AT 12"oc	(7)#4
9'-0"	3'-6"	8"	1'-0"	12"	#5 AT 12"oc	#4 AT 12"oc	(5)#5
10'-0"	3'-6"	8"	1'-6"	15"	#5 AT 10"oc	#4 AT 12"oc	(7)#5
11'-0"	4'-0"	10"	1'-6"	15"	#6 AT 12"oc	#4 AT 9"oc	(7)#5
12'-0"	4'-6"	10"	1'-6"	15"	#6 AT 9"oc	#4 AT 9"oc	(8)#5



**HDU HOLDOWN SCHEDULE**

PLAN MARK	AT STEMWALL		AT FOOTING			HD POST	
	AB	EMBED	ALL-THREAD	WASHER	EMBED	4x WALL	6x WALL
HDU2	5/8"Ø - SSTB16(L)	12-5/8"	5/8"Ø	1-3/4"SQ x 1/2	9"	(2)2x4	(2)2x6
HDU4	5/8"Ø - SB5/8 x 24	18"	5/8"Ø	1-3/4"SQ x 1/2	9"	(2)2x4	(2)2x6
HDU5	5/8"Ø - SB5/8 x 24	18"	5/8"Ø	1-3/4"SQ x 1/2	9"	(2)2x4	(2)2x6
HDU8	7/8"Ø - SB7/8 x 24	18"	7/8"Ø	2-1/2"SQ x 1/2	12"	4x6	6x6
HU11	1"Ø - SB1 x 30Ø	24"	1"Ø	3"SQ x 5/8	12"	4x8	6x6
HU14	-	-	1"Ø	3"SQ x 5/8	12"	4x12	6x8

Ⓚ ALL HOLDOWN ANCHOR BOLTS THAT NEED TO BE EMBEDDED INTO FOOTING ARE SPECIFICALLY SHOWN ON PLAN  
 Ⓚ A307 ALL-THR w/ PLATE WASHER PER SCHEDULE AND DOUBLE NUT BOT OR EQUIVALENT SIMPSON PAB  
 Ⓚ MINIMUM SIZE OF POST UNO ON FRAMING PLANS  
 Ⓚ REQUIRES MINIMUM 8" THICK CONCRETE WALL



**LSTHD/STHD HOLDOWN SCHEDULE**

PLAN MARK	NAILS	HD POST
LSTD8(RJ)	(20) 16d SINKERS	DBL STUD
STHD10(RJ)	(28) 16d SINKERS	DBL STUD
STHD14(RJ)	(30) 16d SINKERS	DBL STUD

Ⓚ 16d SINKERS = 0.148"Ø x 3-1/4"  
 Ⓚ MINIMUM SIZE OF POST UNO ON FRAMING PLANS

Ⓚ LAP SPlice - #4 = 32", #5 = 40", #6 = 48"

**RETAINING WALL SCHEDULE w/ SLAB**



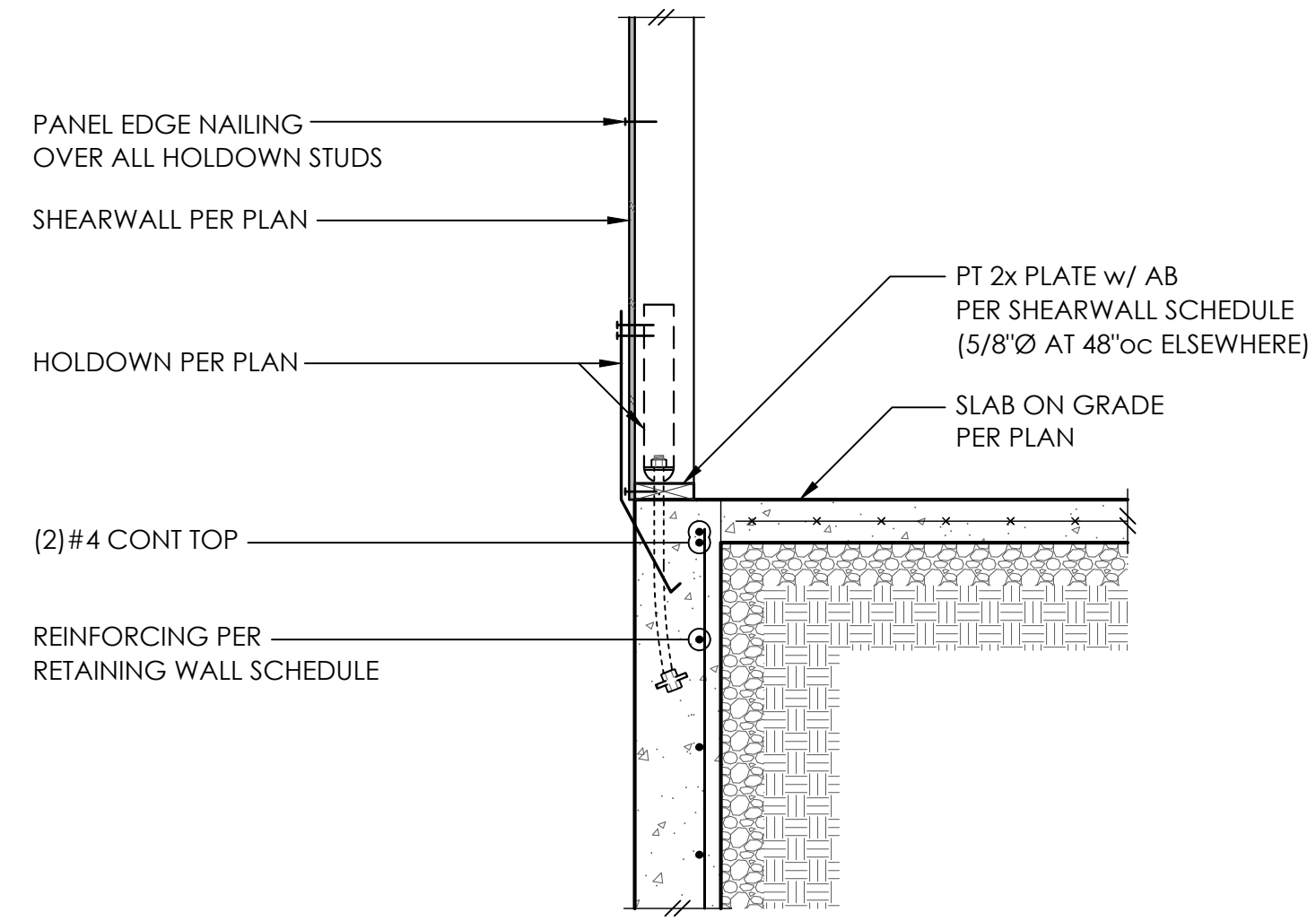
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 DRAWN BY BLAKE RASSILYER JSD  
 ENGINEER BLAKE RASSILYER 206.602.5452  
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REV DESCRIPTION DATE  
 PERMIT SET 5.27.22

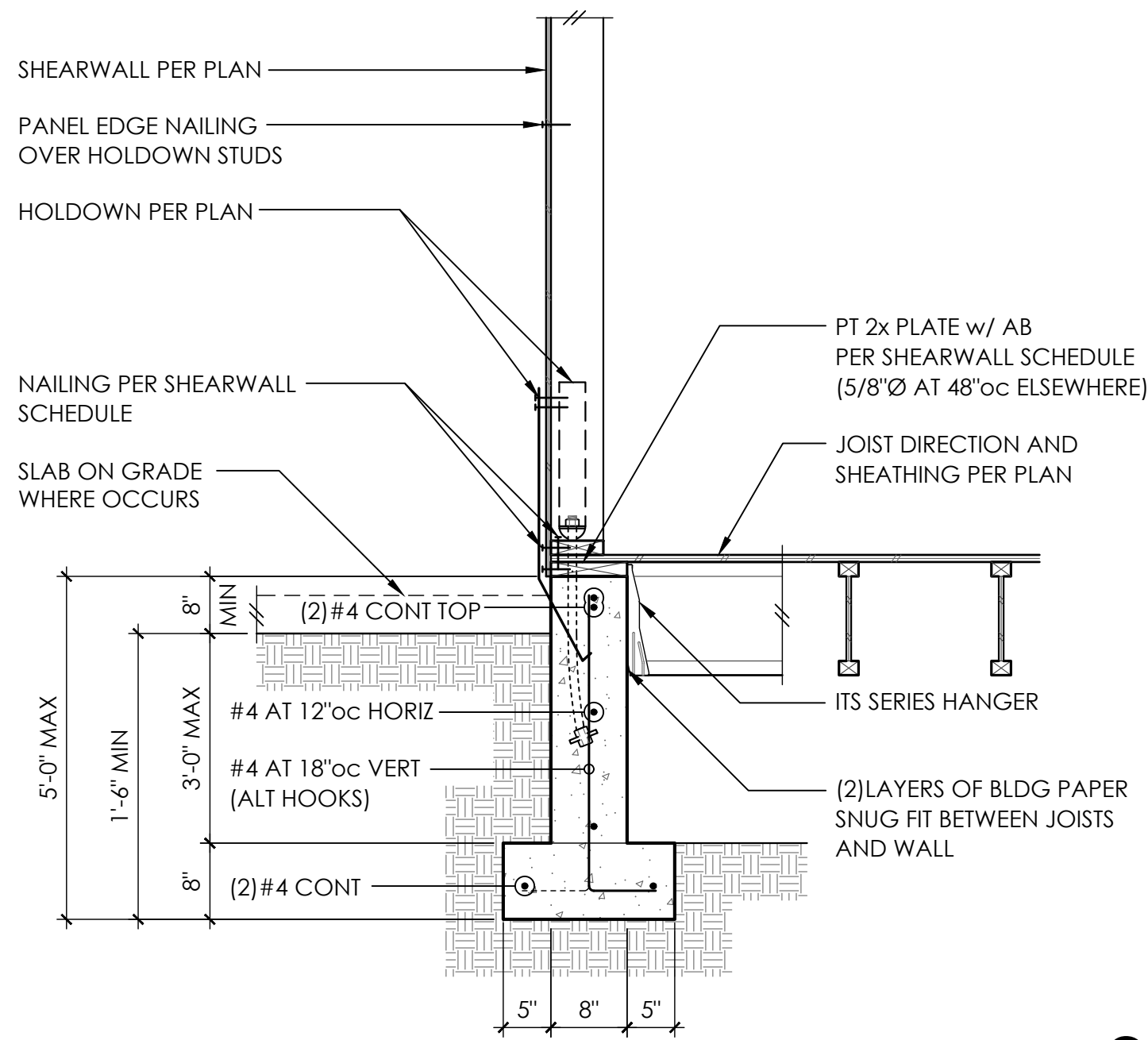
ARCH JULIAN WEBER ARCH + DESIGN  
 CLIENT COOMBS DEVELOPMENT

**TYPICAL CONCRETE DETAILS**

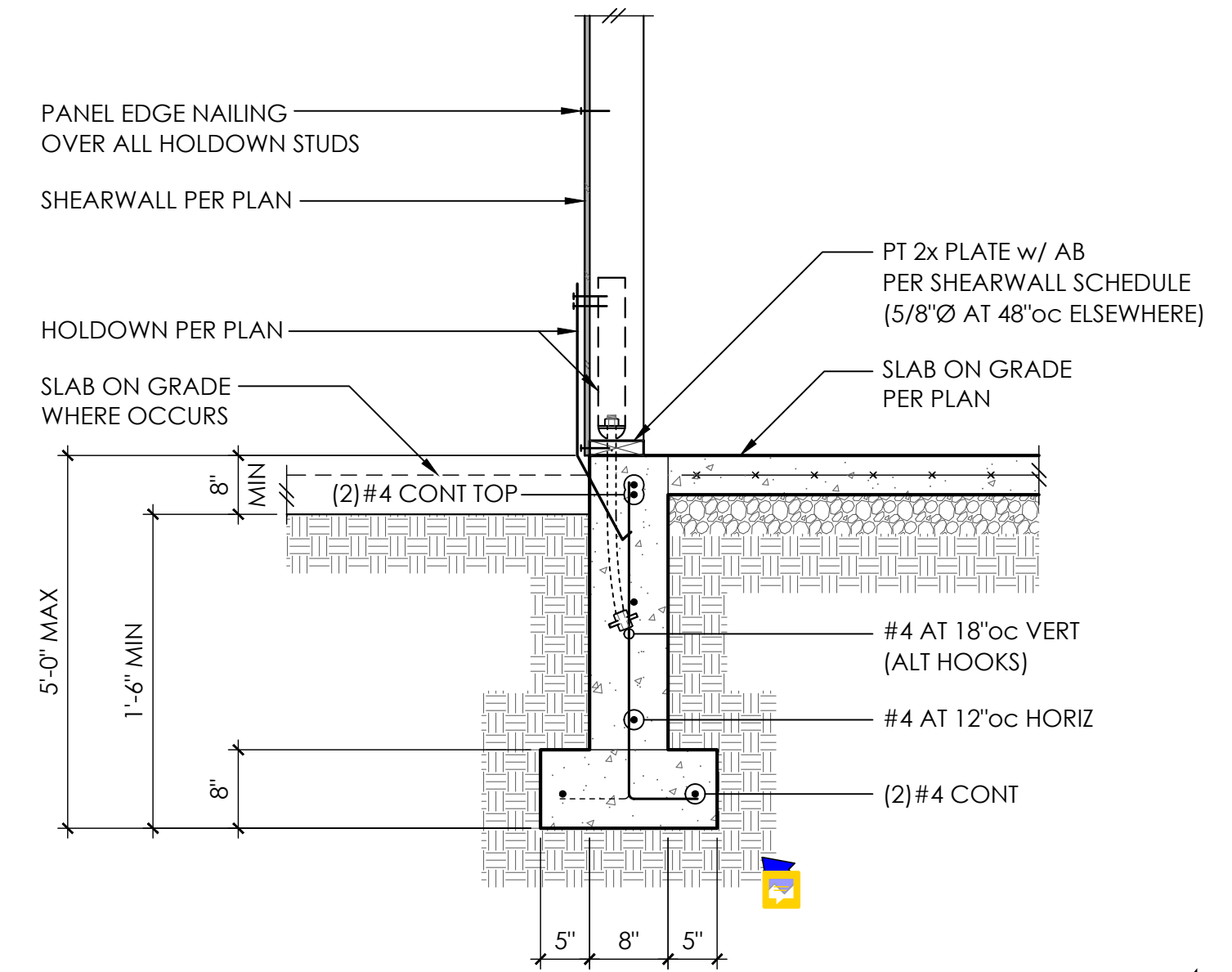
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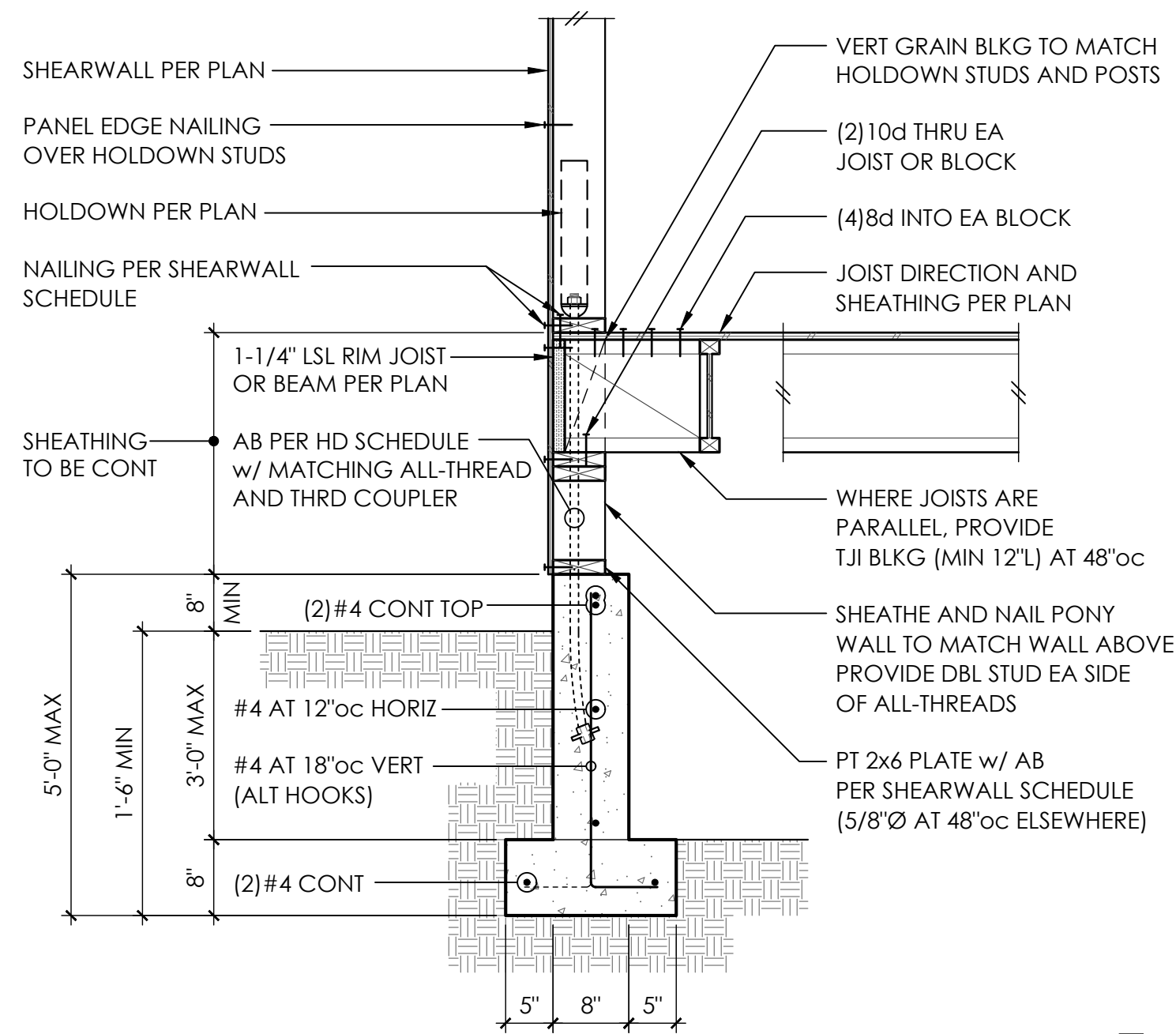
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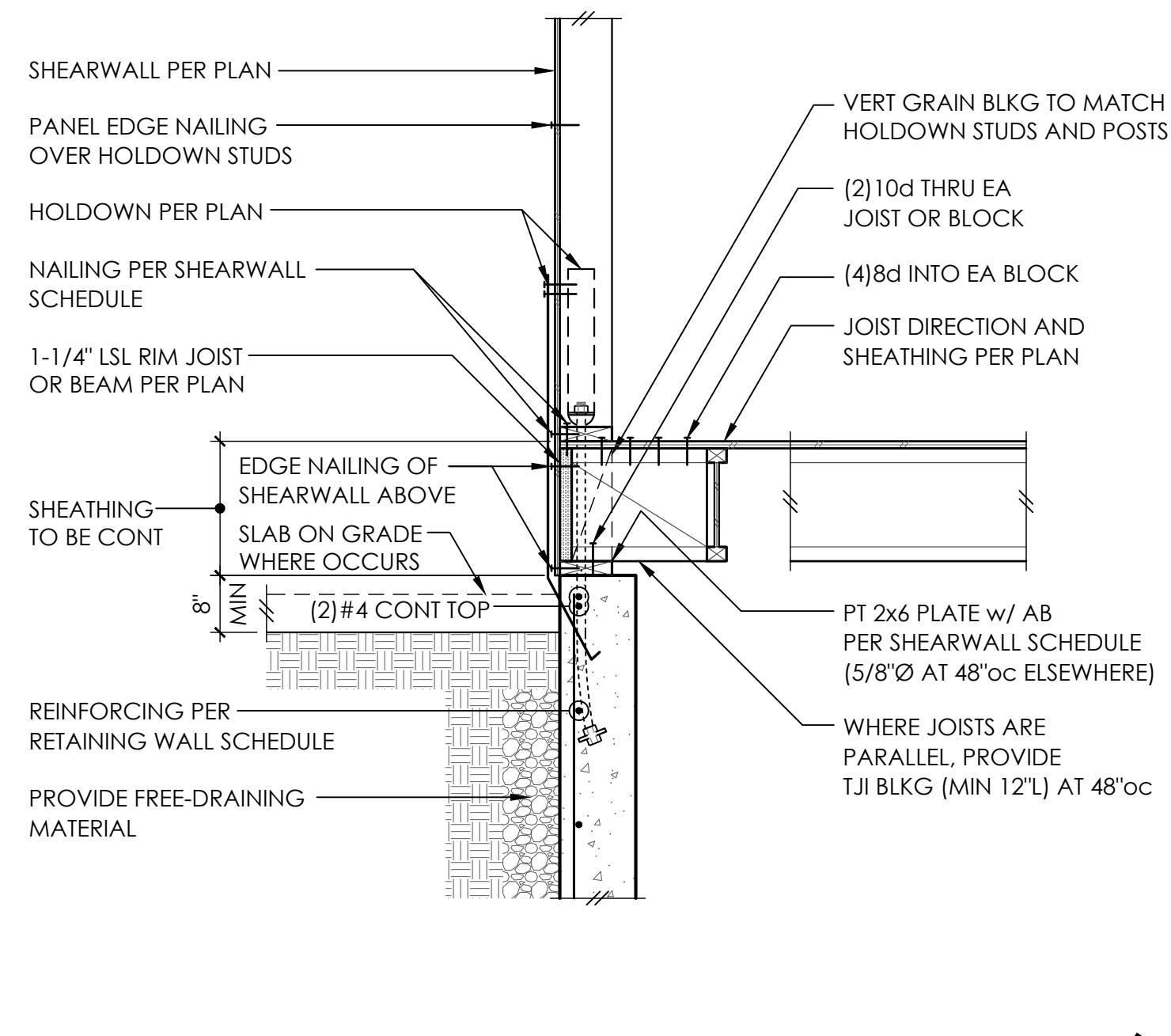
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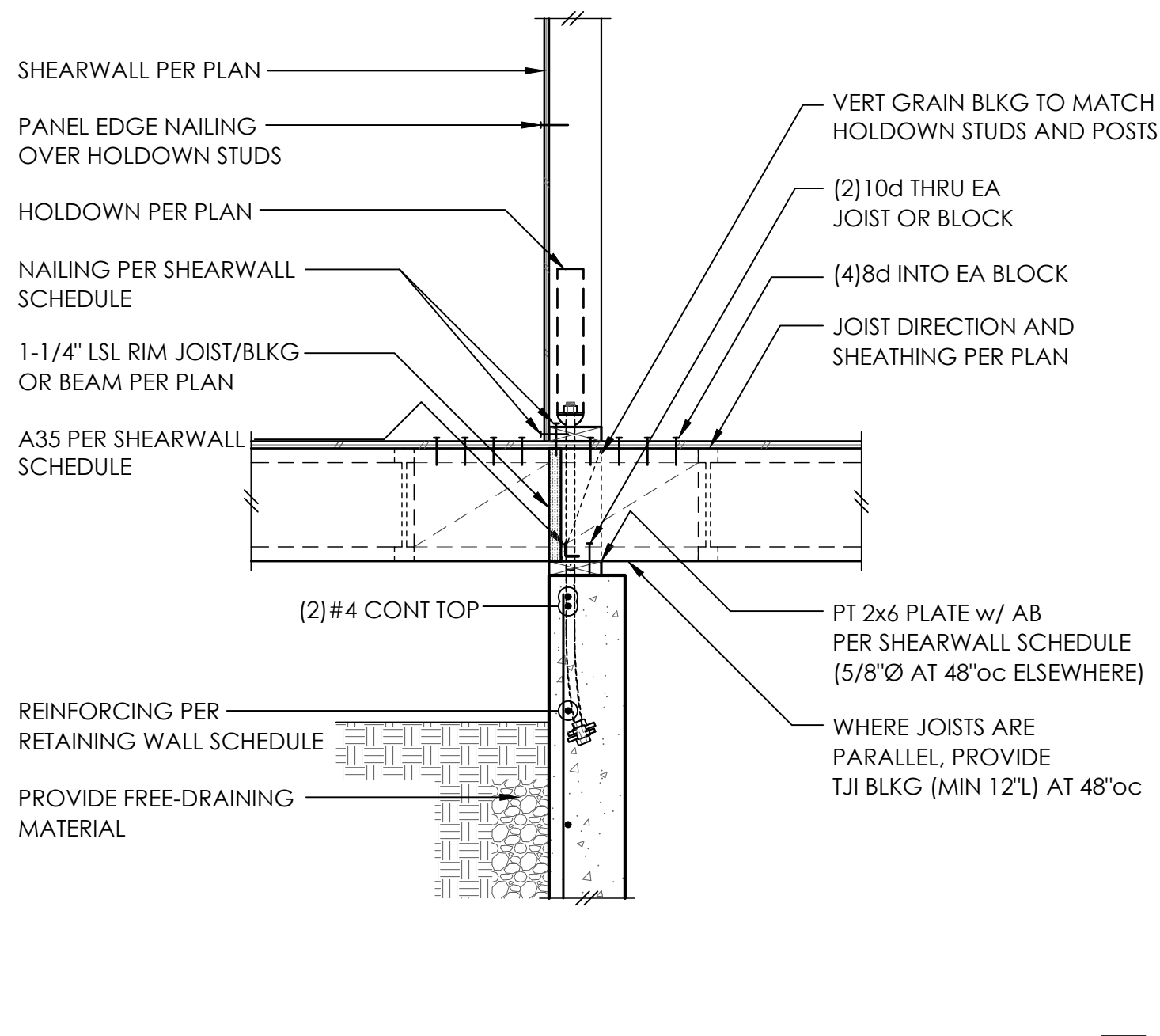
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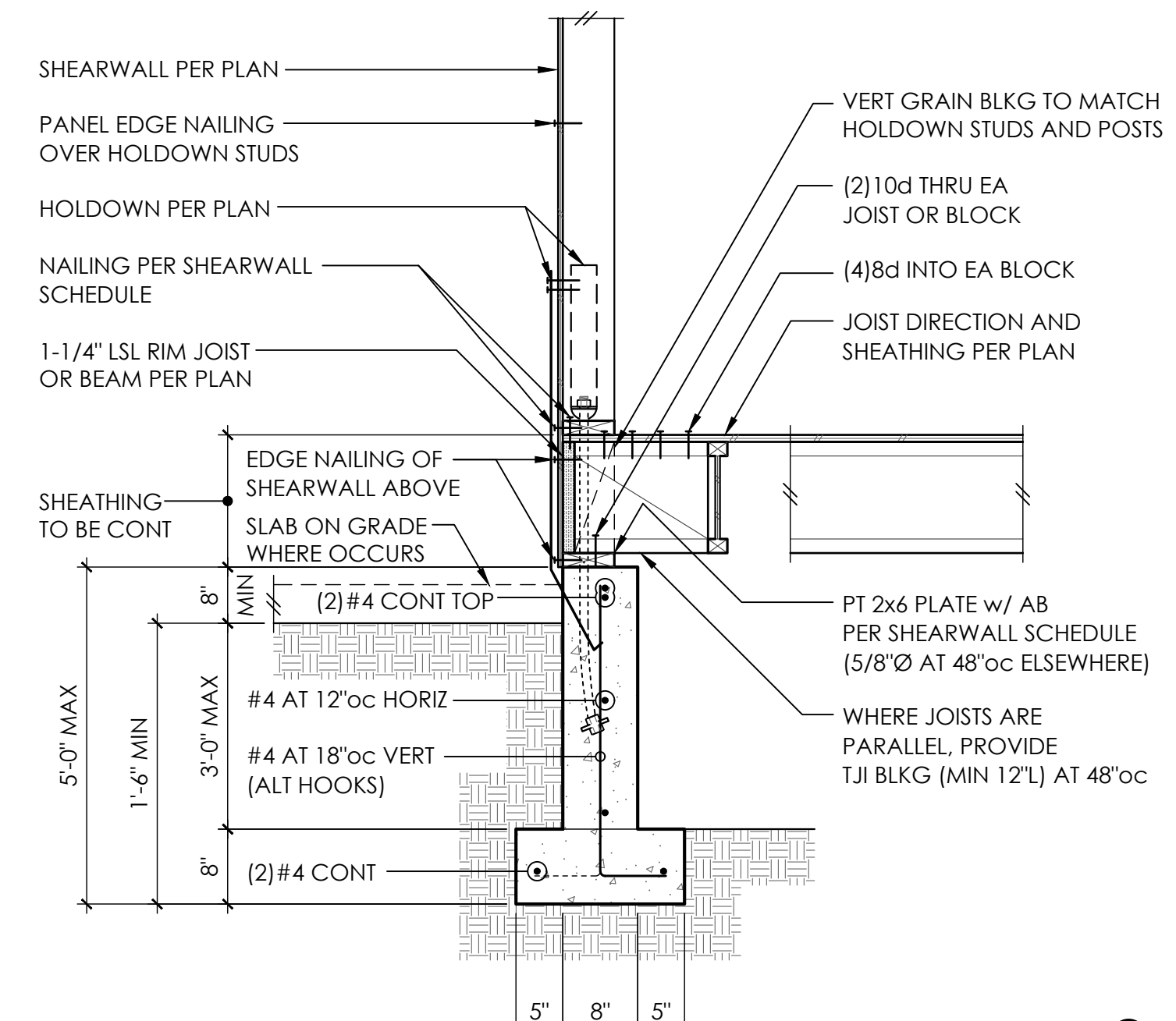
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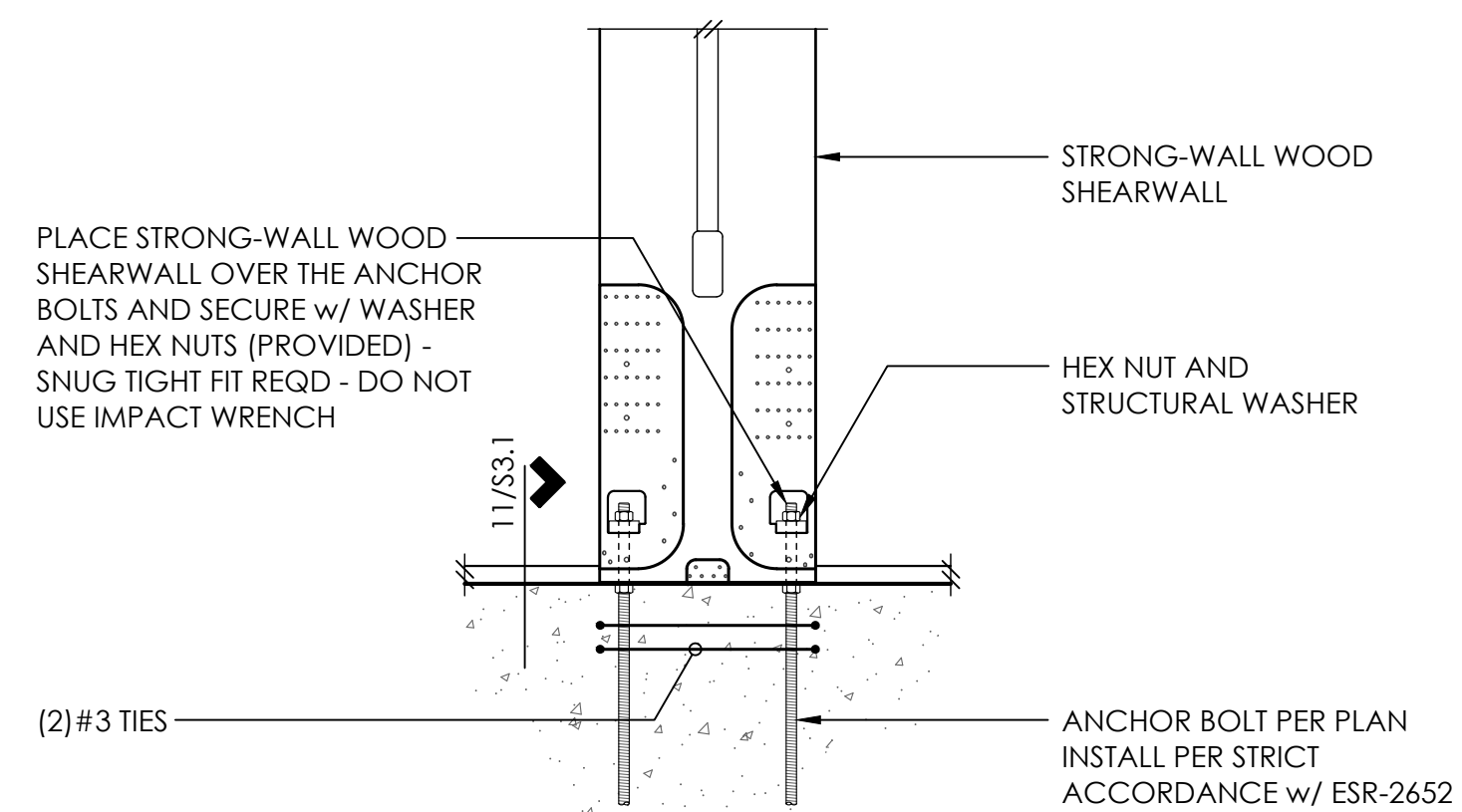
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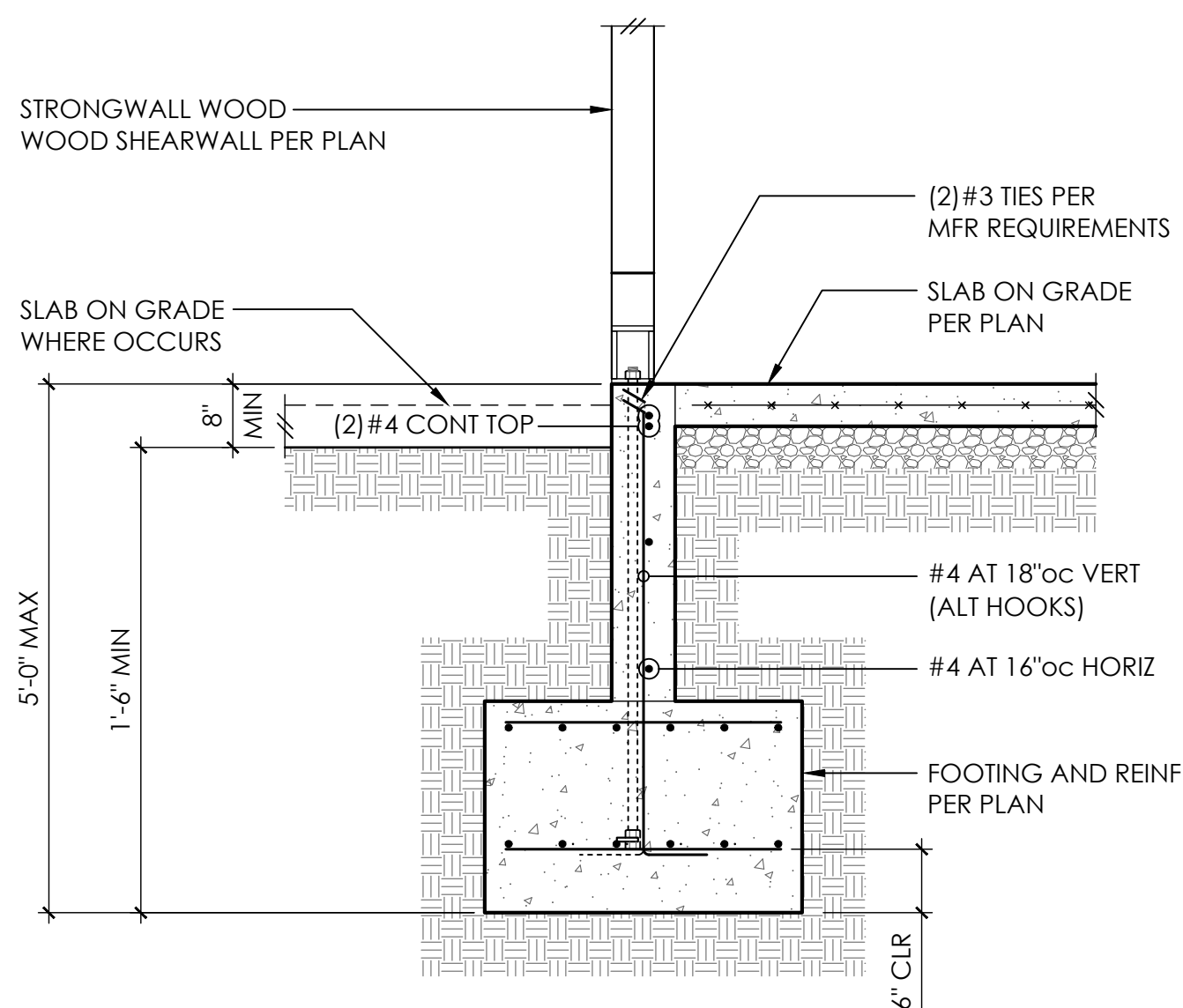


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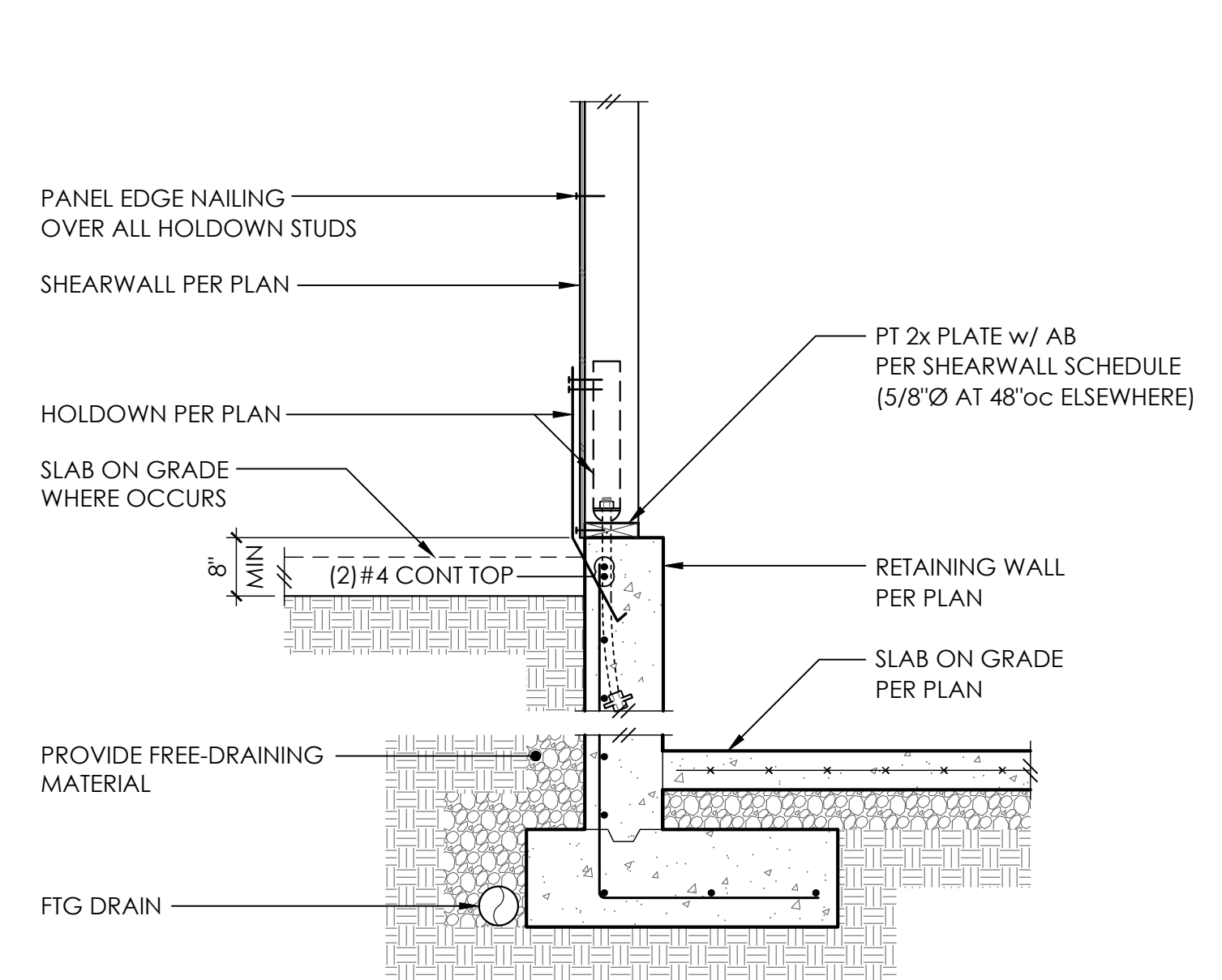
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CONTRACTOR TO REFER TO SIMPSON STRONG WALL SHOP DRAWINGS AND PRODUCT INSTALLATION GUIDELINES TO ENSURE INSTALLATION CONFORMANCE



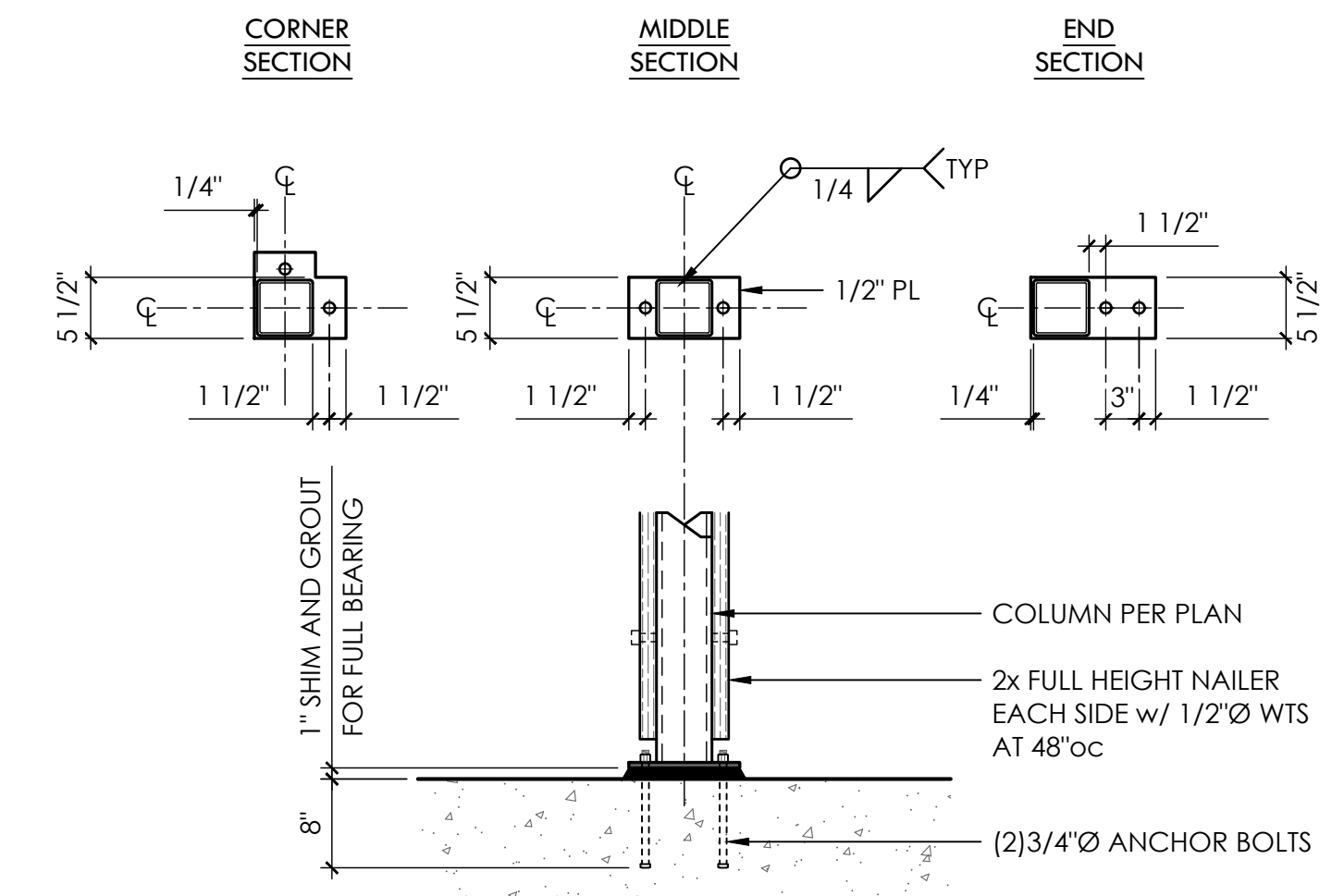
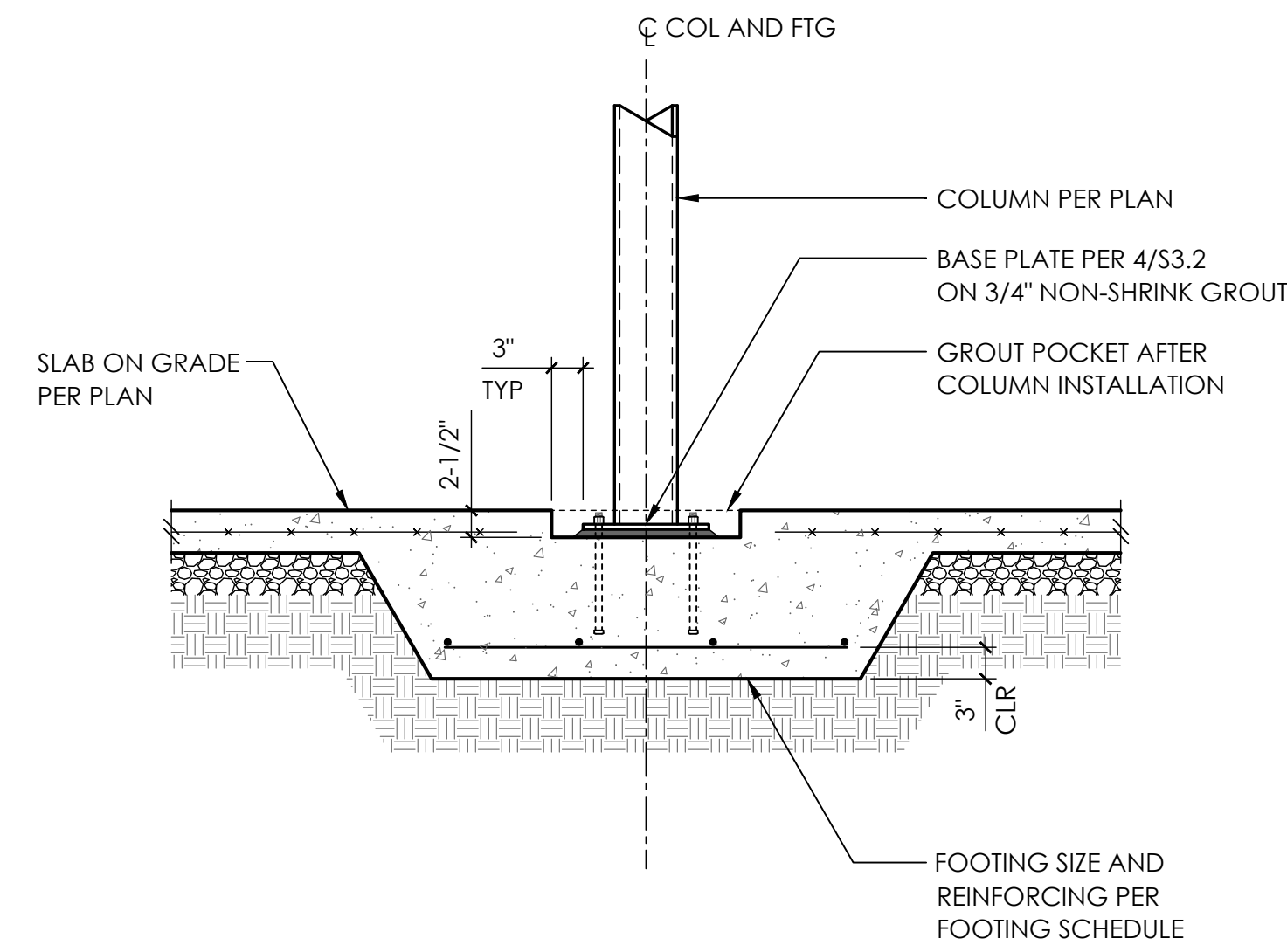
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CONTRACTOR TO REFER TO SIMPSON STRONG WALL SHOP DRAWINGS AND PRODUCT INSTALLATION GUIDELINES TO ENSURE INSTALLATION CONFORMANCE  
INSTALL SIMPSON STRONGWALL AND ANCHORAGE IN STRICT ACCORDANCE w/ ESR-2652



12

Revised by: Insoo Park  
Printed on: 05/26/2022, 3:44pm

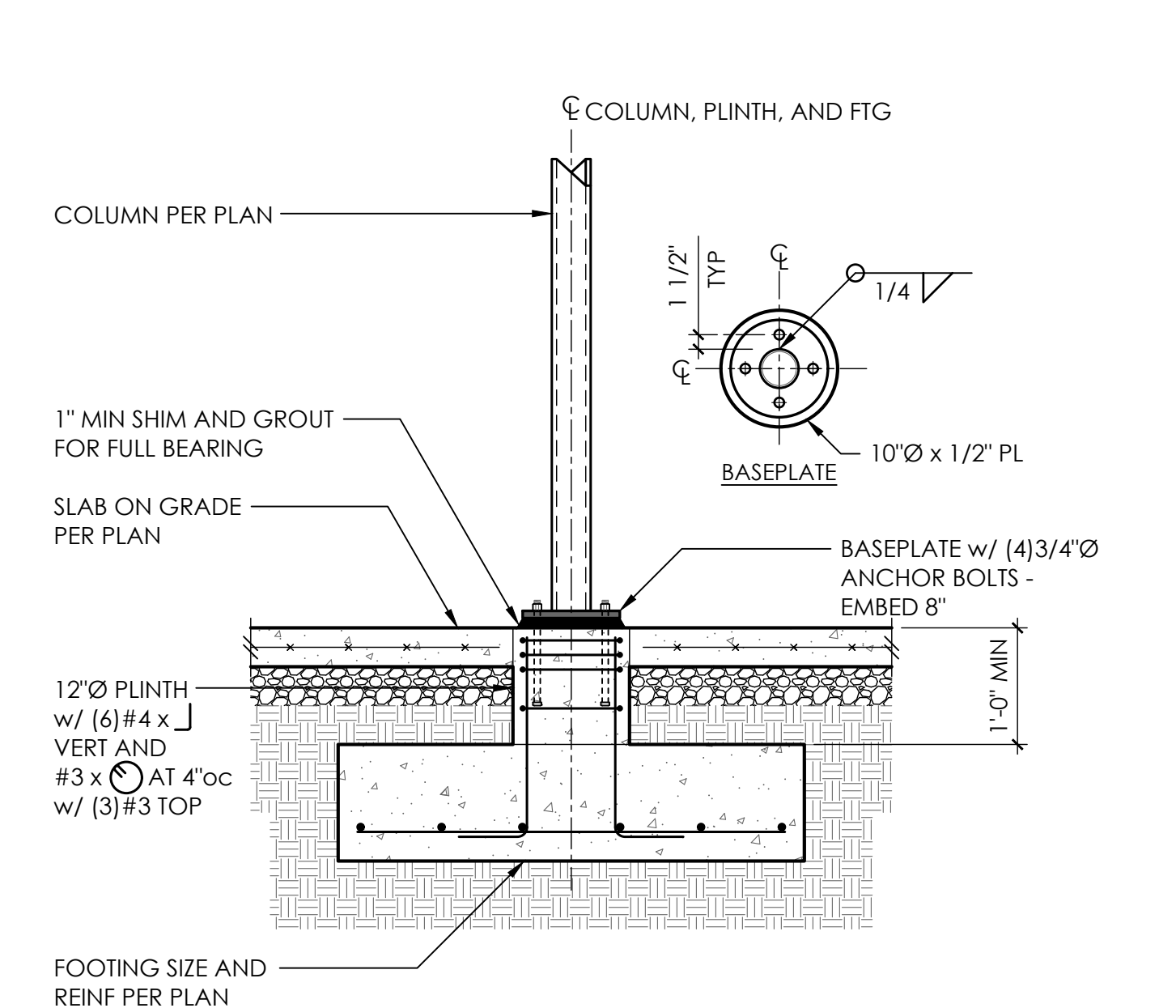
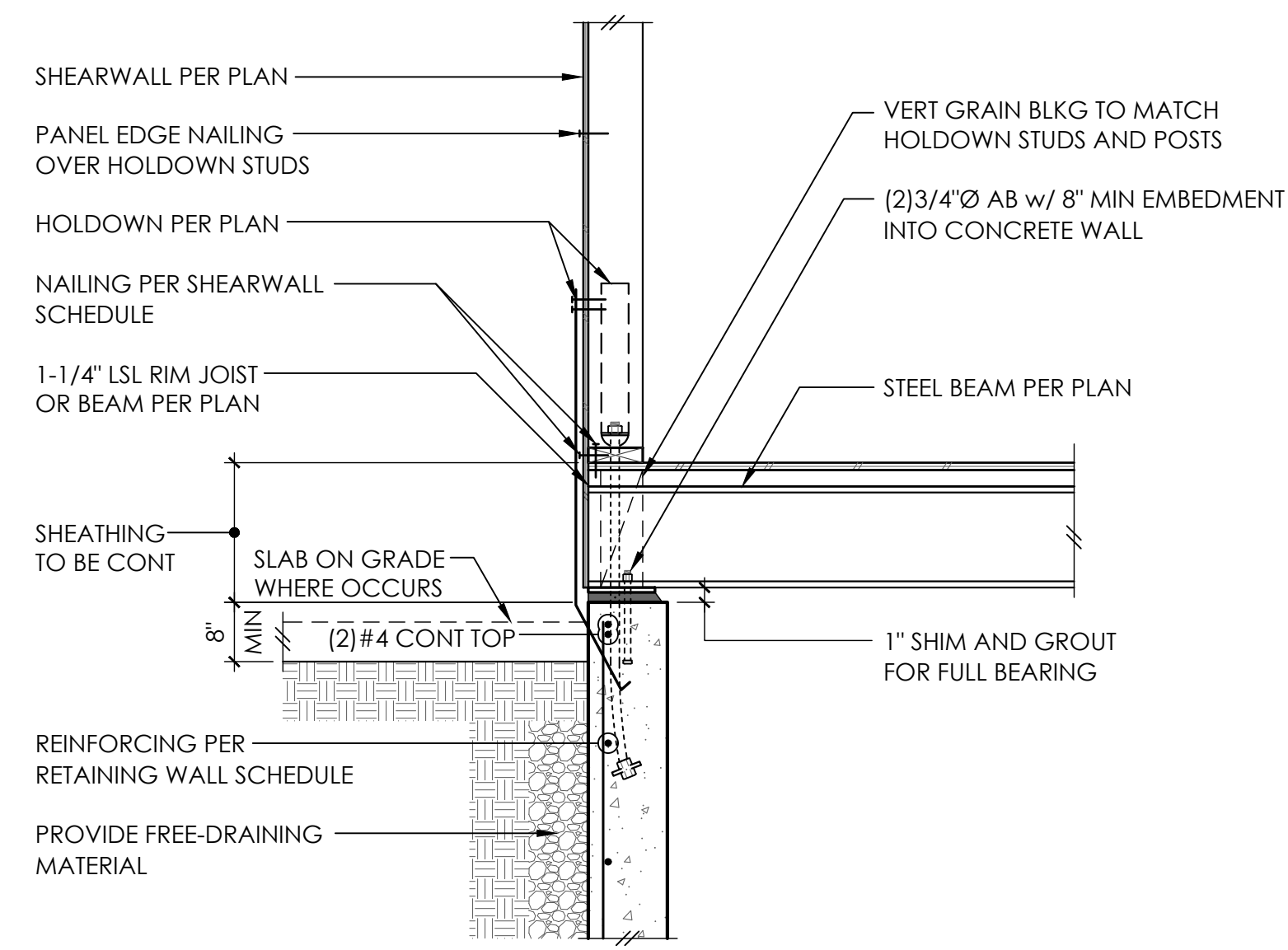


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BASEPLATE - HSS COLUMN 4



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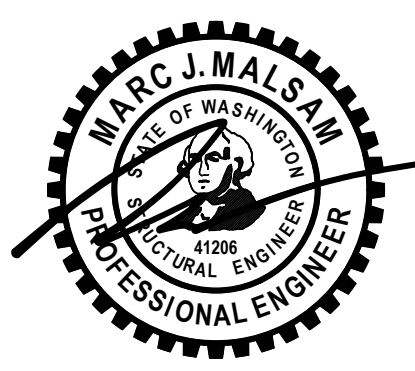
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12



PROJECT NO 0329.2022.01.01  
PROJECT MANAGER WAC  
DRAWN JSD  
ENGINEER BLAKE RASSILYER  
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REV	DESCRIPTION	DATE
PERMIT SET		5.27.22

ARCH JULIAN WEBER ARCH + DESIGN  
206.953.1305  
CLIENT COOMBES DEVELOPMENT

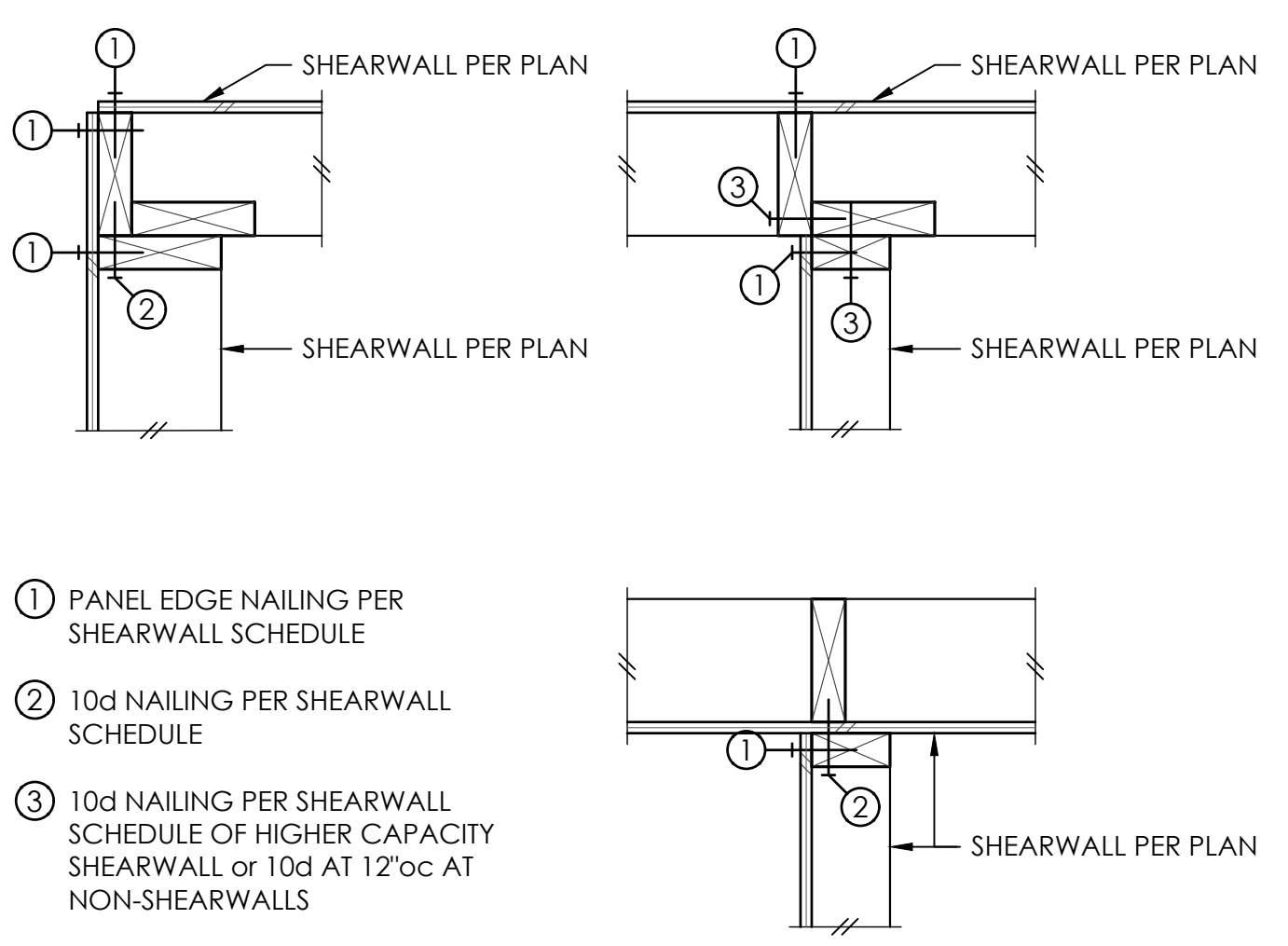
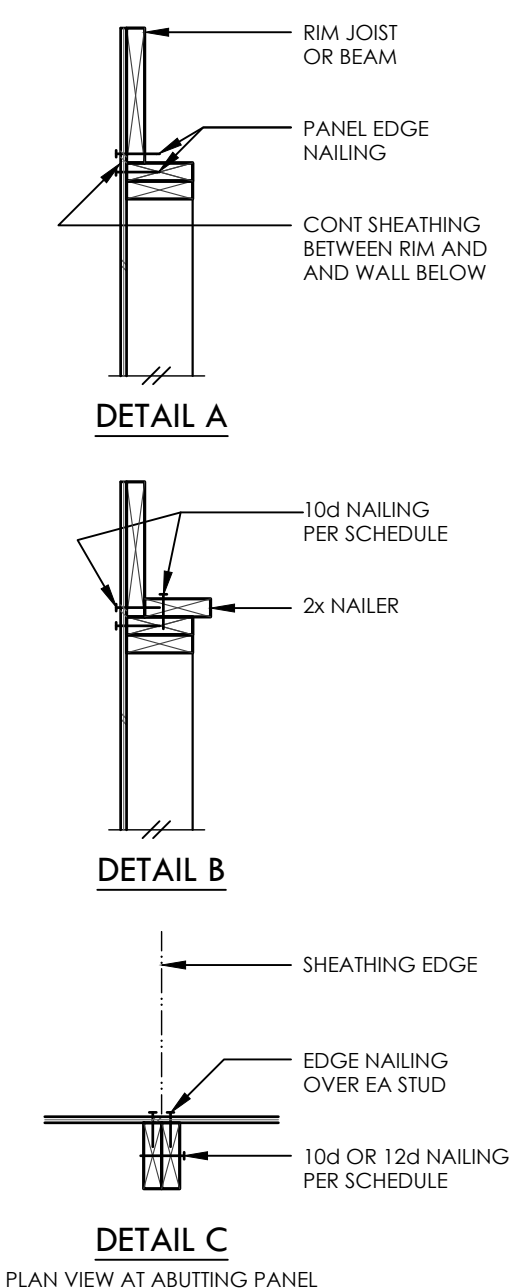
CONCRETE DETAILS

**S3.2**  
SCALE - 3/4" = 1'-0"

**SHEARWALL SCHEDULE**

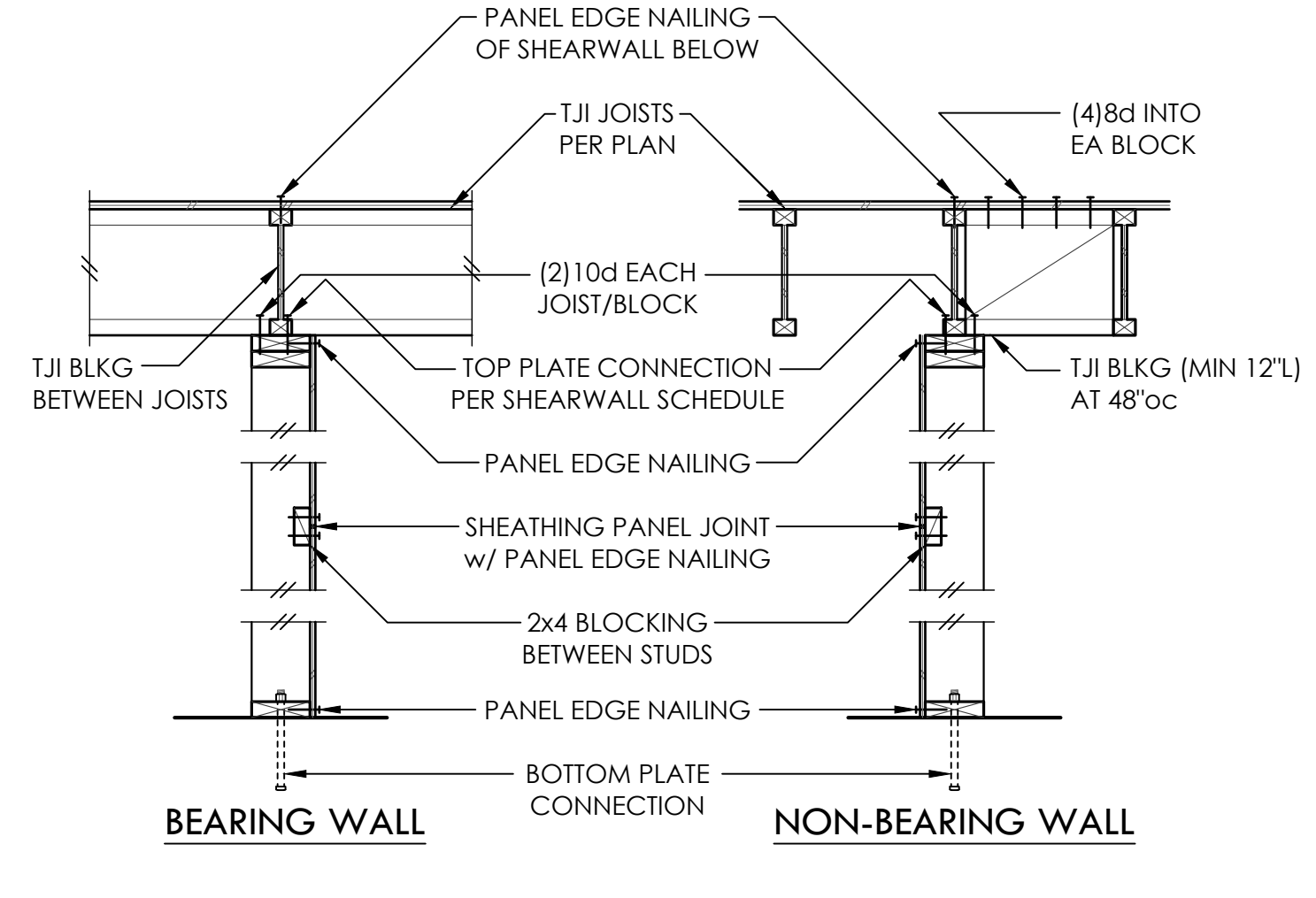
MARK	SHEATHING	PANEL EDGE NAILING	TOP PLATE CONNECTION		BASE PLATE CONNECTION	
			TJI	RIM/BEAM	AT WOOD	AT CONCRETE
SW6	1/2" PLY or 7/16" OSB	8d AT 6"oc	10d AT 6"oc	A35 AT 30"oc	12d AT 6"oc	5/8"Ø AB AT 48"oc
SW4	1/2" PLY or 7/16" OSB	8d AT 4"oc	10d AT 4"oc	A35 AT 18"oc	12d AT 4"oc	5/8"Ø AB AT 42"oc
SW3	1/2" PLY or 7/16" OSB	8d AT 3"oc	(2)ROWS 10d AT 6"oc	A35 AT 16"oc	(2)ROWS 12d AT 6"oc	5/8"Ø AB AT 36"oc
SW2	1/2" PLY or 7/16" OSB	8d AT 2"oc	(2)ROWS 10d AT 4"oc	A35 AT 12"oc	(2)ROWS 12d AT 4"oc	5/8"Ø AB AT 24"oc
SW3-2	1/2" PLY or 7/16" OSB EA SIDE	8d AT 3"oc EA SIDE	N/A	A35 AT 8"oc	(2)ROWS 12d AT 3"oc	5/8"Ø AB AT 18"oc
SW2-2	1/2" PLY or 7/16" OSB EA SIDE	8d AT 2"oc EA SIDE	N/A	A35 AT 6"oc	(3)ROWS 12d AT 3"oc	5/8"Ø AB AT 12"oc

- ① BLOCK PANEL EDGES WITH 2x4 LAID FLAT AND NAIL PANELS TO INTERMEDIATE SUPPORTS WITH 8d AT 12"oc.
- ② 8d NAILS SHALL BE 0.131"Ø x 2-1/2", 10d NAILS SHALL BE 0.131"Ø x 3", AND 12d NAILS SHALL BE 0.131"Ø x 3-1/4".
- ③ EMBED ANCHOR BOLTS AT LEAST 7". ALL BOLTS SHALL HAVE 3" x 3" x 0.229" PLATE WASHERS. THE PLATE WASHER SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF THE BOTTOM PLATE ON THE SIDE(S) w/ SHEATHING. AT 2x6 SW3-2 AND SW2-2 WALLS, PROVIDE 4-1/2" x 3" x 0.229" PLATE WASHERS CENTERED ON PLATE.
- ④ 3x STUDS OR DBL STUDS NAILED TOGETHER w/ 10d OR 12d NAILING IS REQD AT ABUTTING PANEL EDGES OF SW3, SW2, SW3-2, AND SW2-2. REFER TO DETAIL C. WHERE 3x STUDS ARE USED, STAGGER NAILS AT ADJOINING PANEL EDGES. ABUTTING PANEL EDGES SHALL BE OFFSET EACH SIDE OF WALL AT SW3-2 AND SW2-2.
- ⑤ TWO STUDS MINIMUM OR POST PER PLAN ARE REQUIRED AT EACH END OF ALL SHEARWALLS AND ALL END STUDS SHALL RECEIVE PANEL EDGE NAILING.
- ⑥ ALL EXTERIOR WALLS SHALL BE SW6, UNLESS NOTED OTHERWISE.
- ⑦ NAILS SHALL NOT BE SPACED LESS THAN 3/8" FROM EDGES OF SHEATHING. SHEATHING NAILS SHALL BE DRIVEN SO THEIR HEADS ARE FLUSH WITH SHEATHING (NOT COUNTERSUNK).
- ⑧ LTP4'S INSTALLED OVER SHEATHING WITH 8d (0.131"Ø x 2-1/2") NAILS MAY BE SUBSTITUTED FOR A35'S AT CONTRACTORS OPTION.
- ⑨ A35'S OR LTP4'S MAY BE ELIMINATED PER DETAIL A OR DETAIL B.



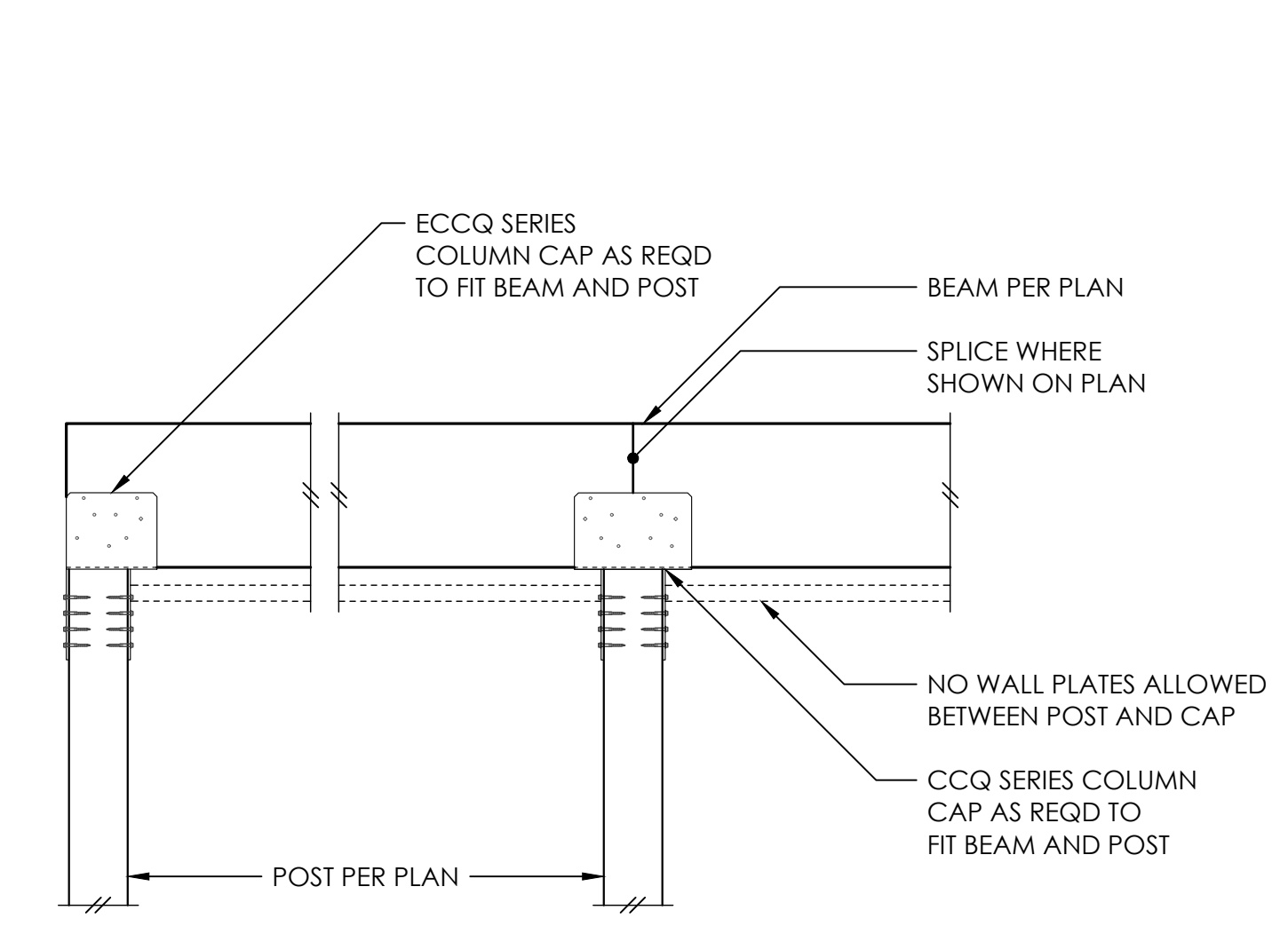
- ① PANEL EDGE NAILING PER SHEARWALL SCHEDULE
- ② 10d NAILING PER SHEARWALL SCHEDULE
- ③ 10d NAILING PER SHEARWALL SCHEDULE OF HIGHER CAPACITY SHEARWALL or 10d AT 12"oc AT NON-SHEARWALLS

SCALE: 1-1/2" = 1'-0"  
**TYPICAL SHEARWALL INTERSECTIONS** 1

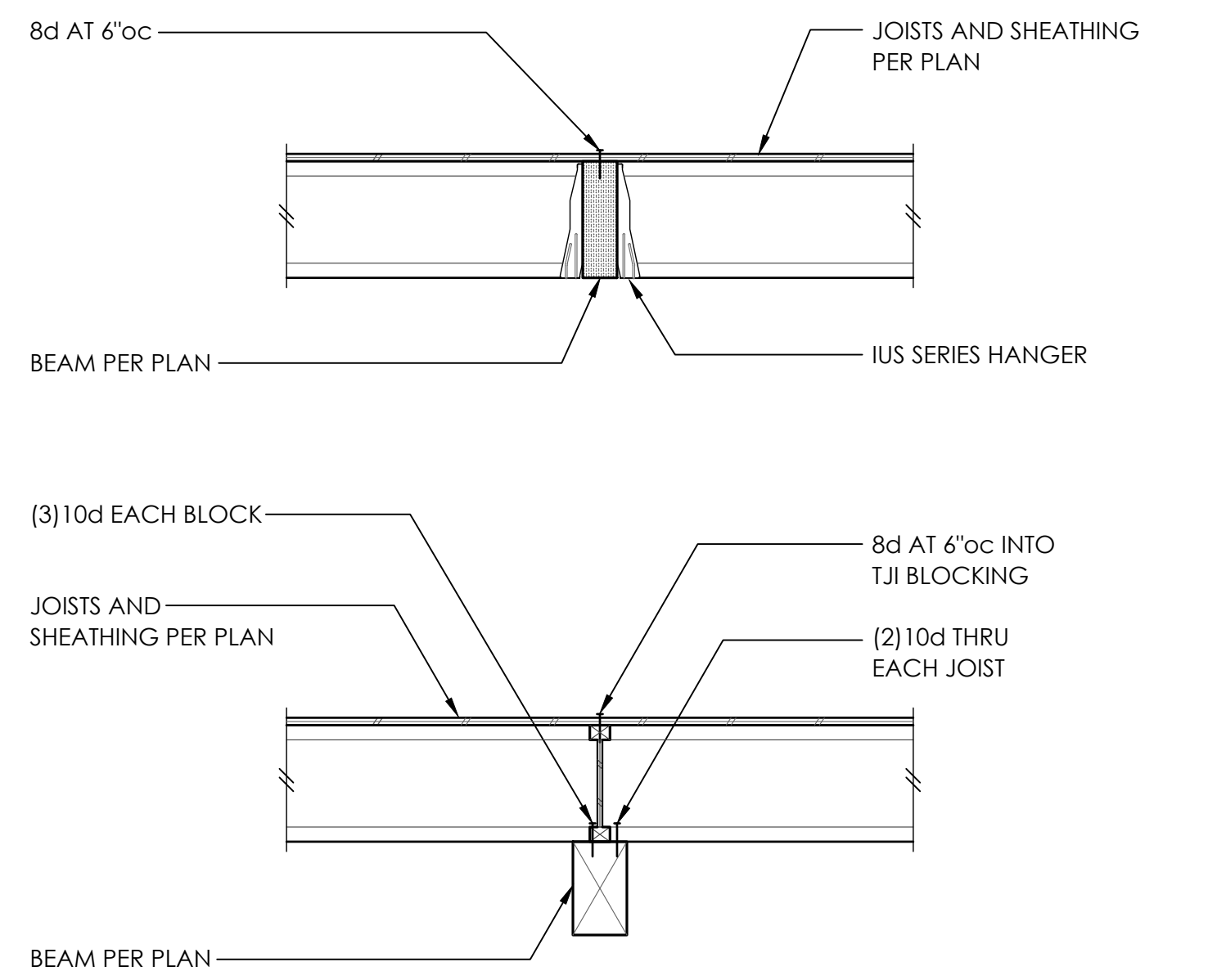


**NOTE:**  
SEE SHEARWALL SCHEDULE FOR ALL NAILING AND CONNECTIONS, UNO

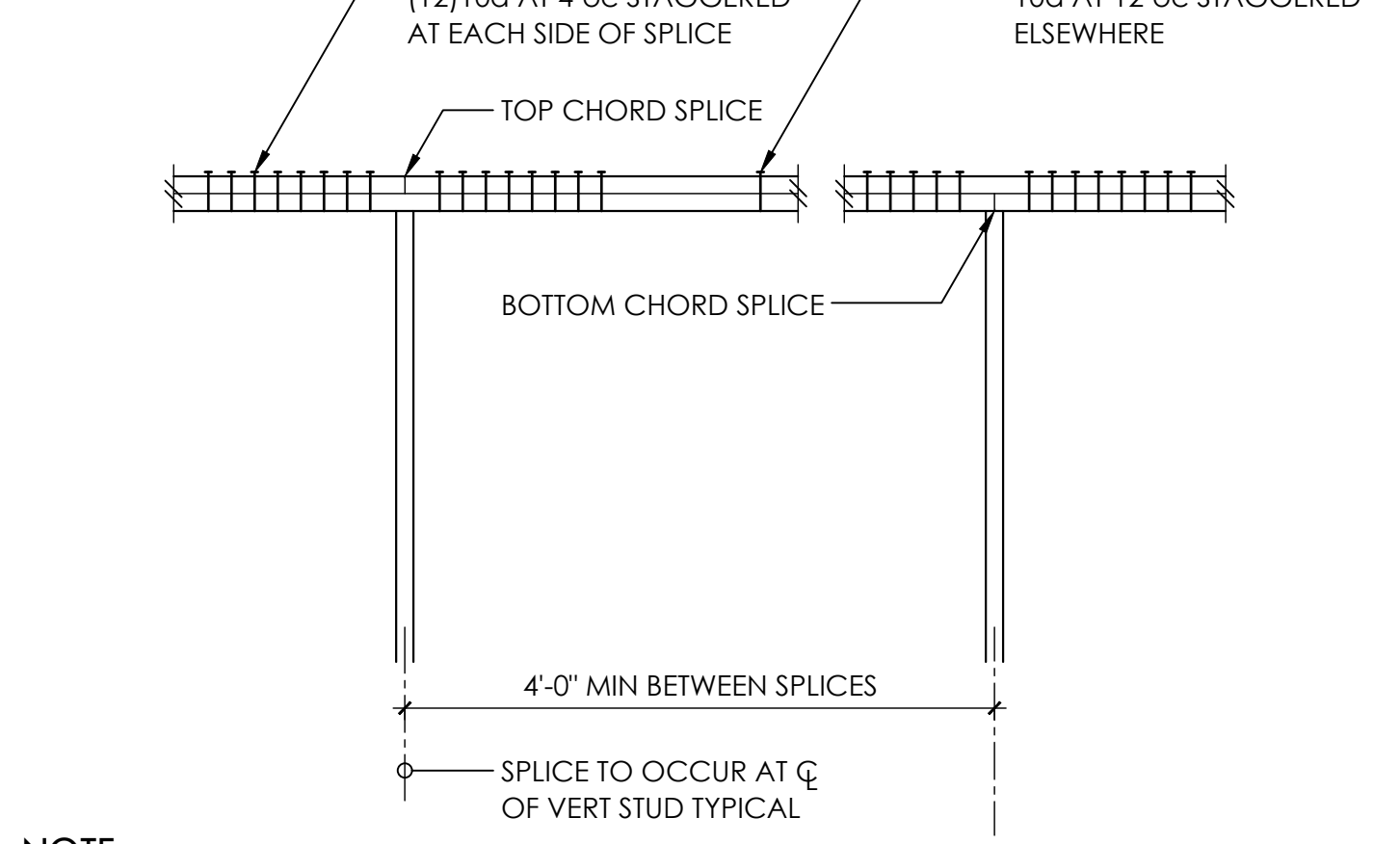
**TYPICAL SHEARWALL CONSTRUCTION** 2



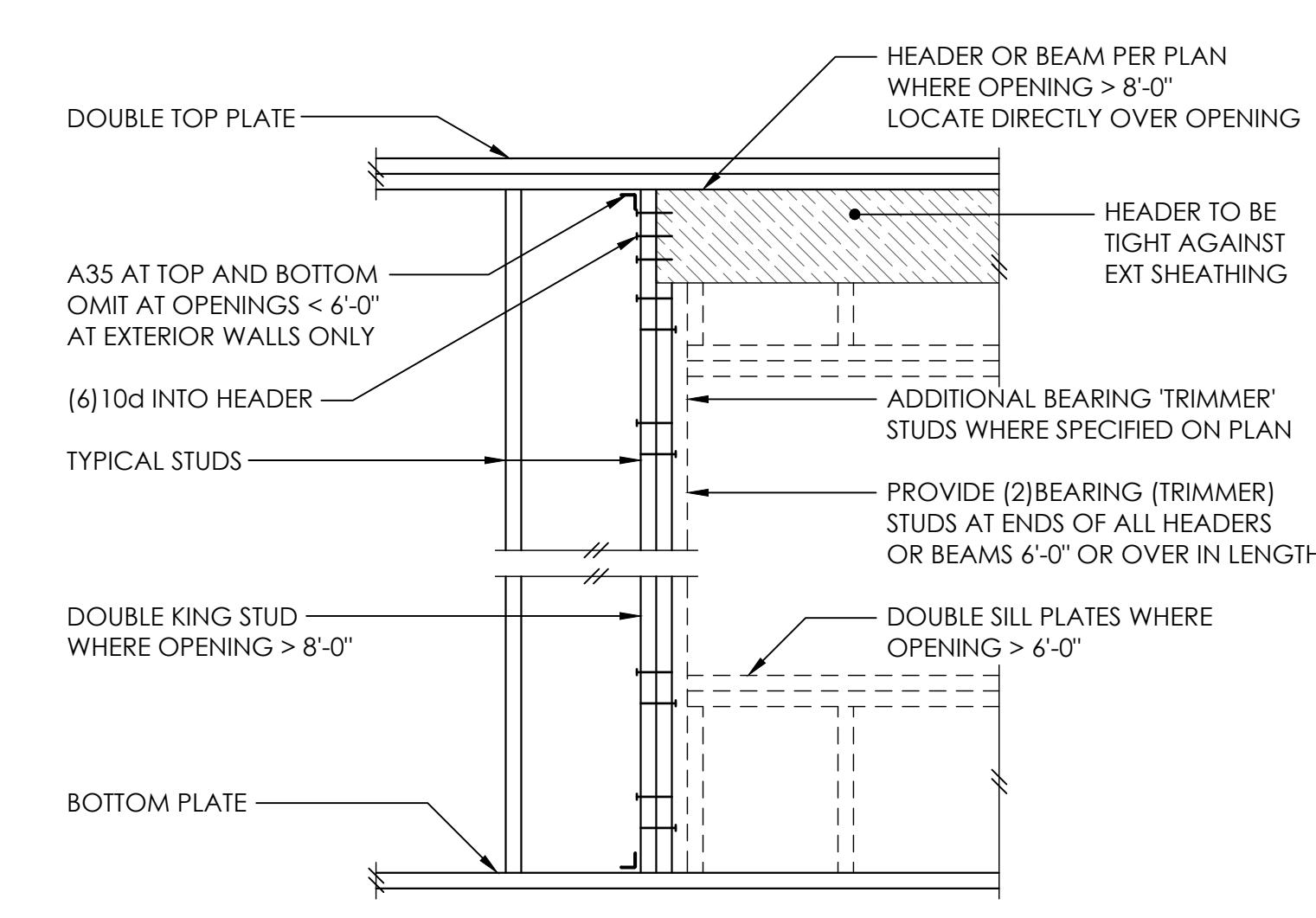
**TYPICAL FLUSH AND DROPPED BEAM** 5



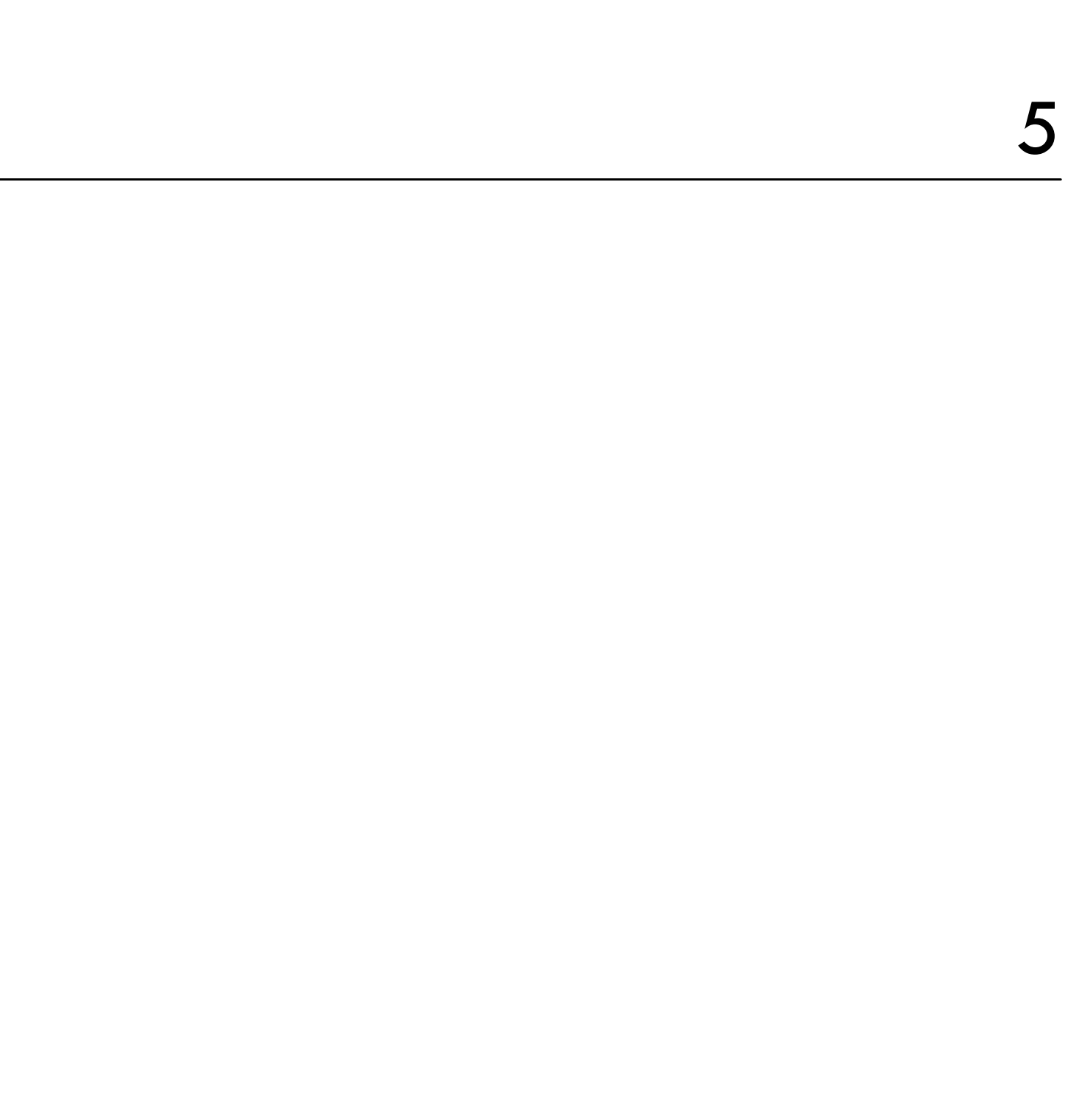
**TYPICAL TOP PLATE SPLICE** 6



**TYPICAL HEADER SUPPORT** 7



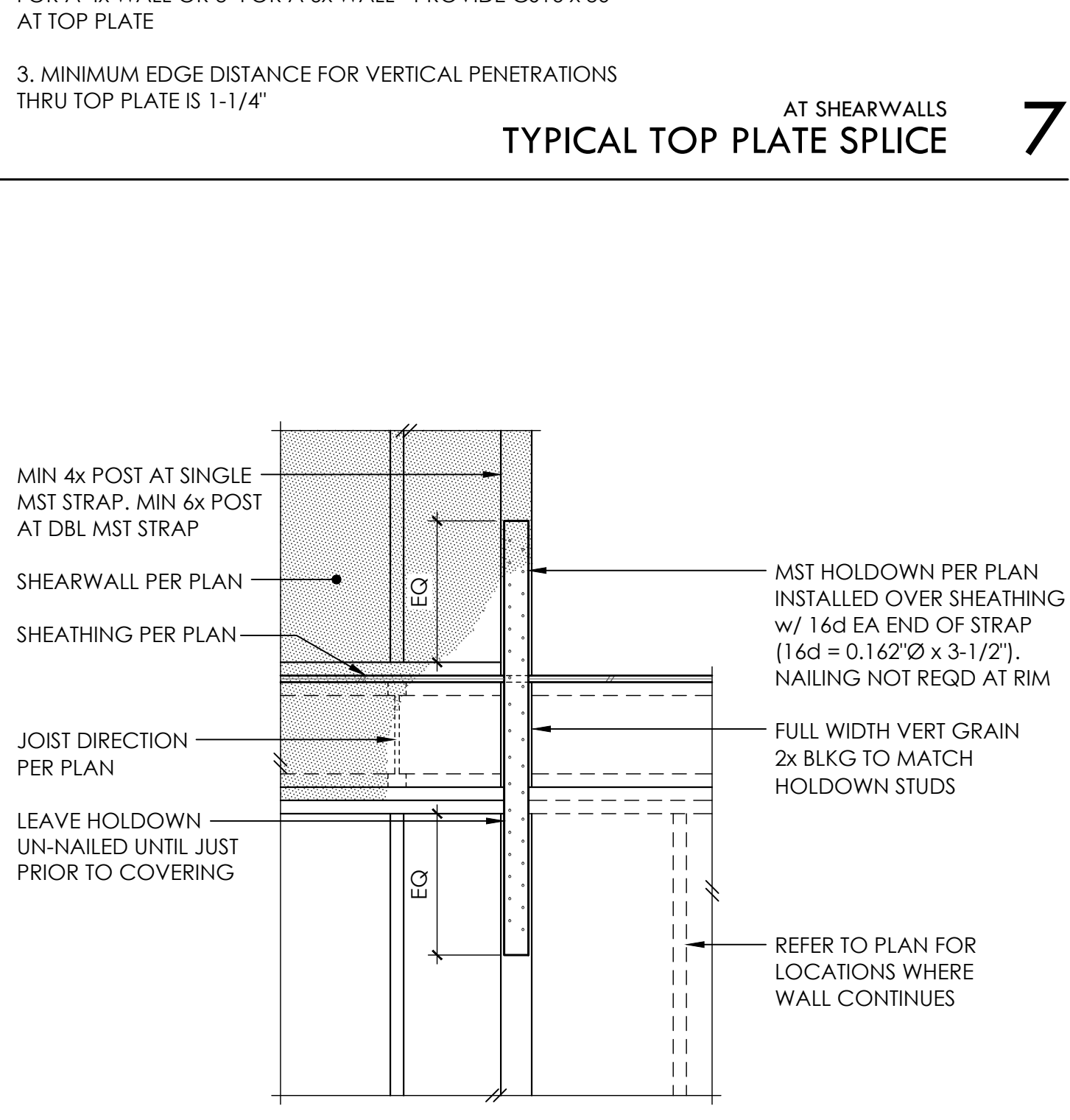
**TYPICAL MST HOLDOWN** 10



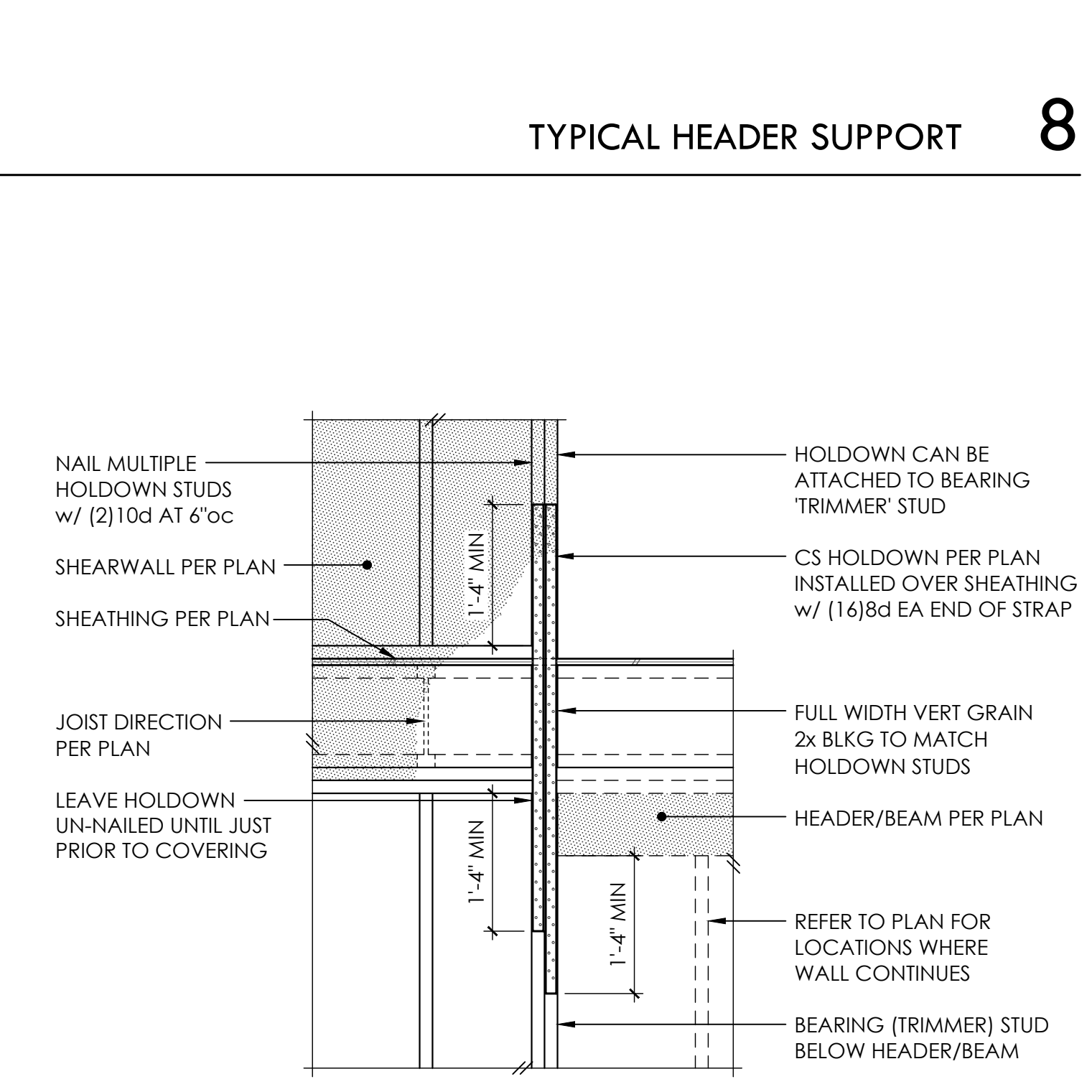
**TYPICAL CS16 HOLDOWN** 12



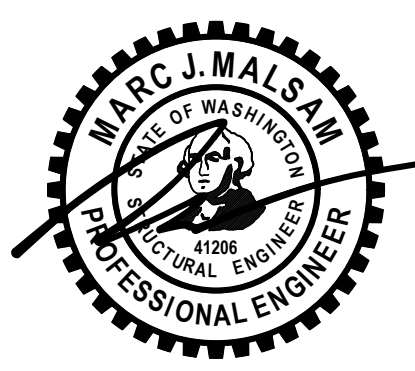
**TYPICAL WOOD FRAMING DETAILS** 8



**SHEARWALL SCHEDULE** 4



**TYPICAL SHEARWALL CONSTRUCTION** 2

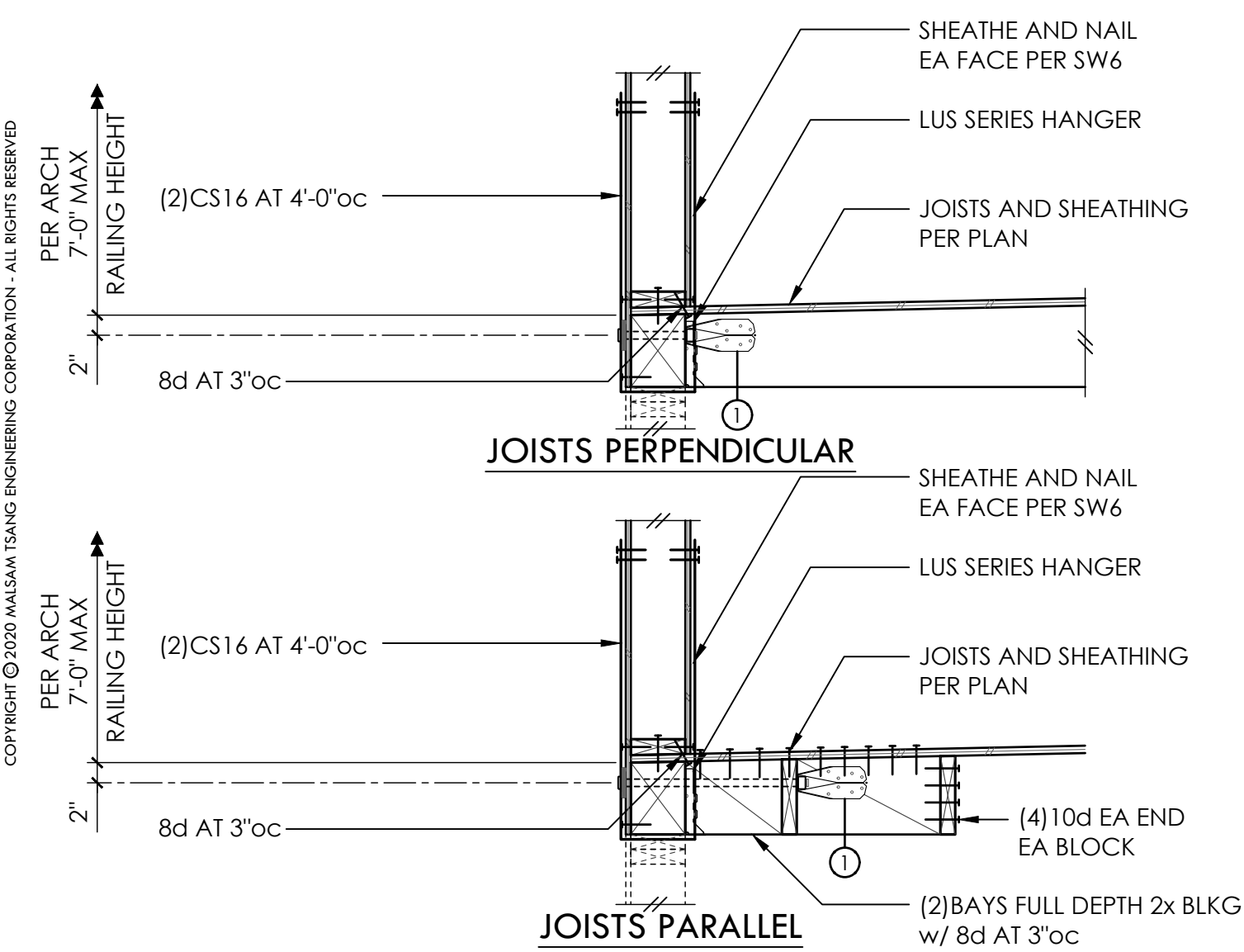


PROJECT NO: 0329.2022.01.01  
PROJECT MANAGER: WAC  
DRAWN: JSD  
ENGINEER: BLAKE RASSILYER  
206.602.5452  
BLAKER@MALSAM-TSANG.COM

REV	DESCRIPTION	DATE
PERMIT SET		5.27.22

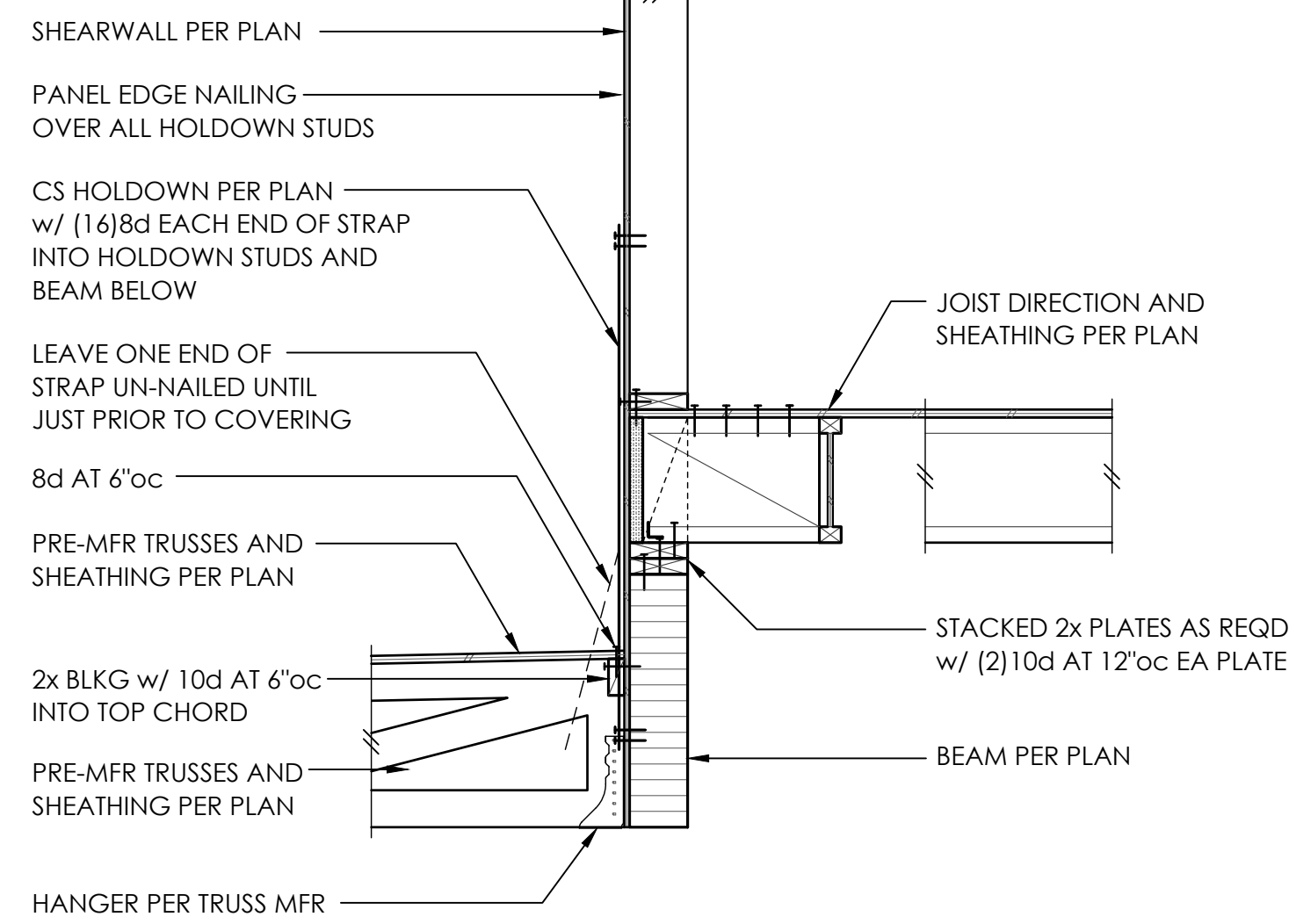
ARCH: JULIAN WEBER ARCH + DESIGN  
206.953.1305  
CLIENT: COOMBS DEVELOPMENT

**TYPICAL WOOD FRAMING DETAILS**

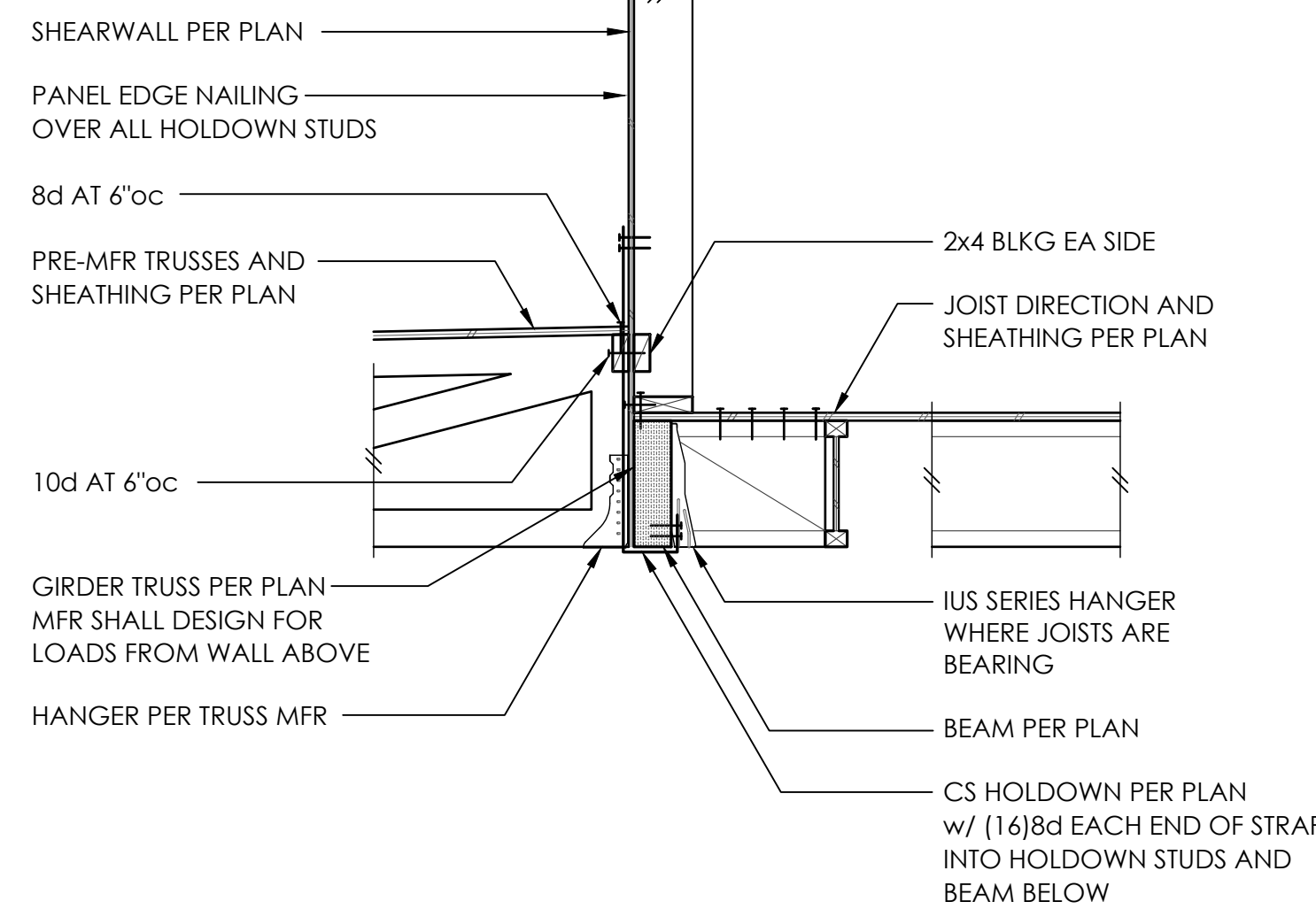


Ⓞ DTT2Z TOP w/ 1/2" Ø THREADED ROD w/ 3" SQ WASHER AT 2'-0" OC - ATTACH TO SECOND BAY OF BLKG AT PARALLEL CASE

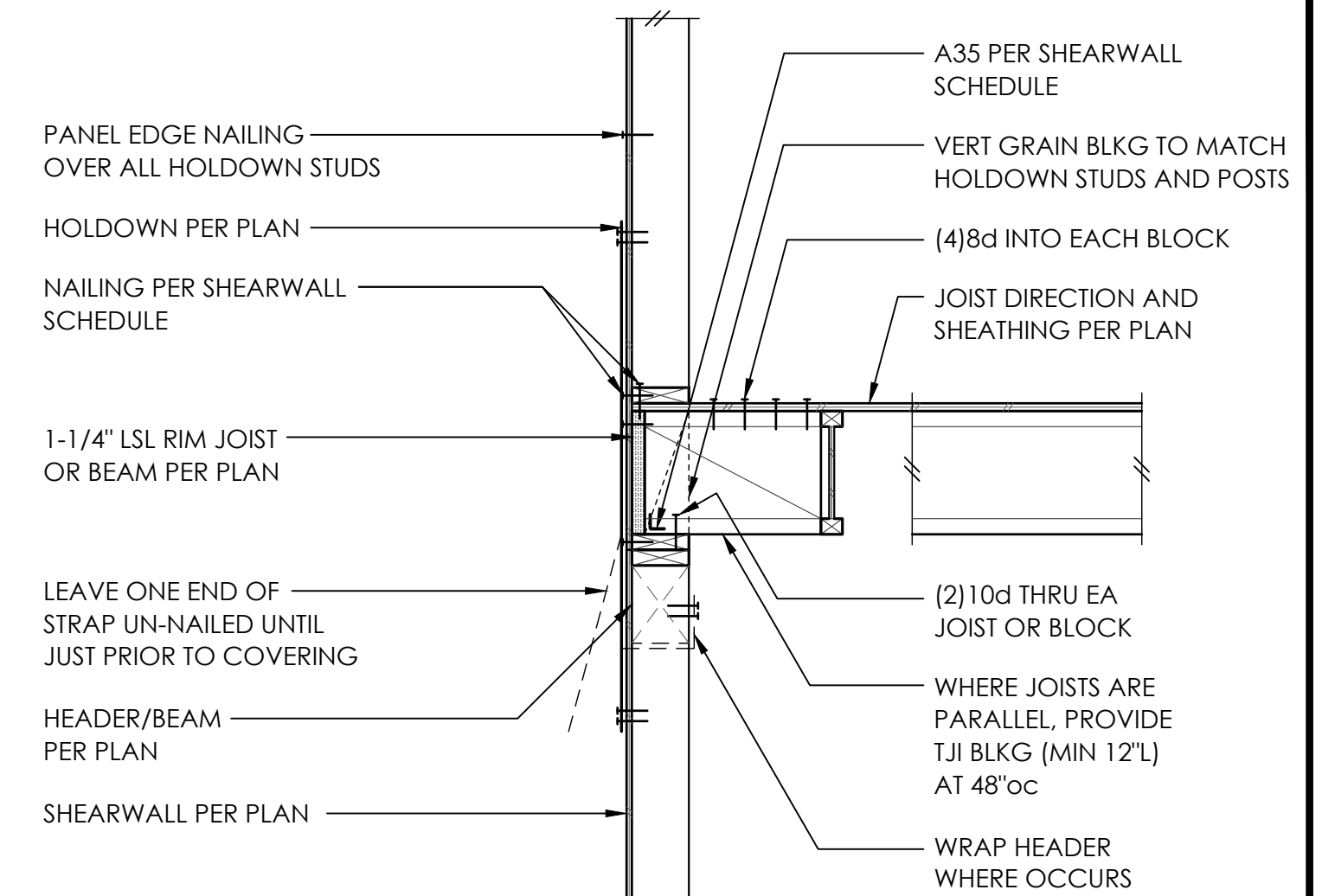
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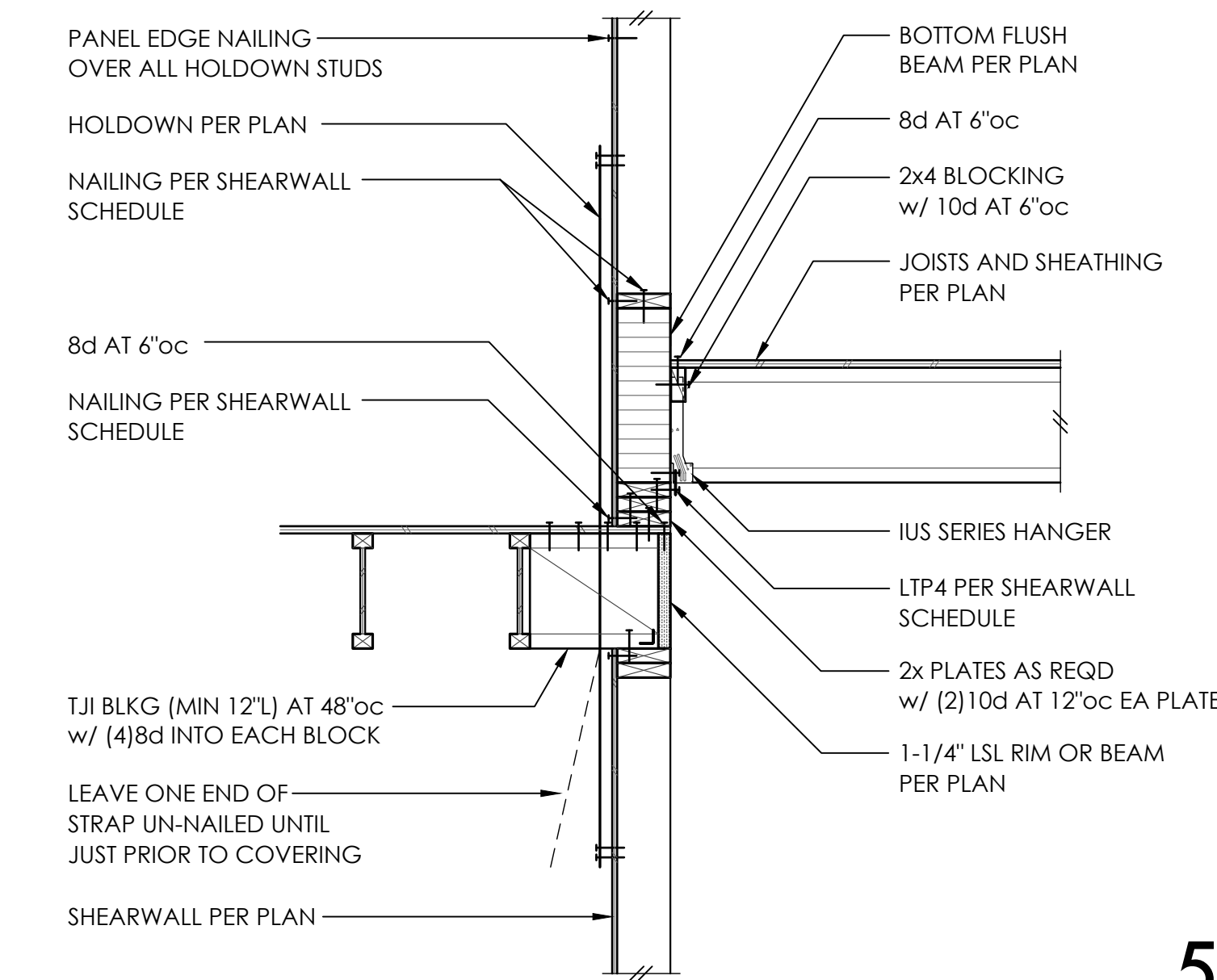
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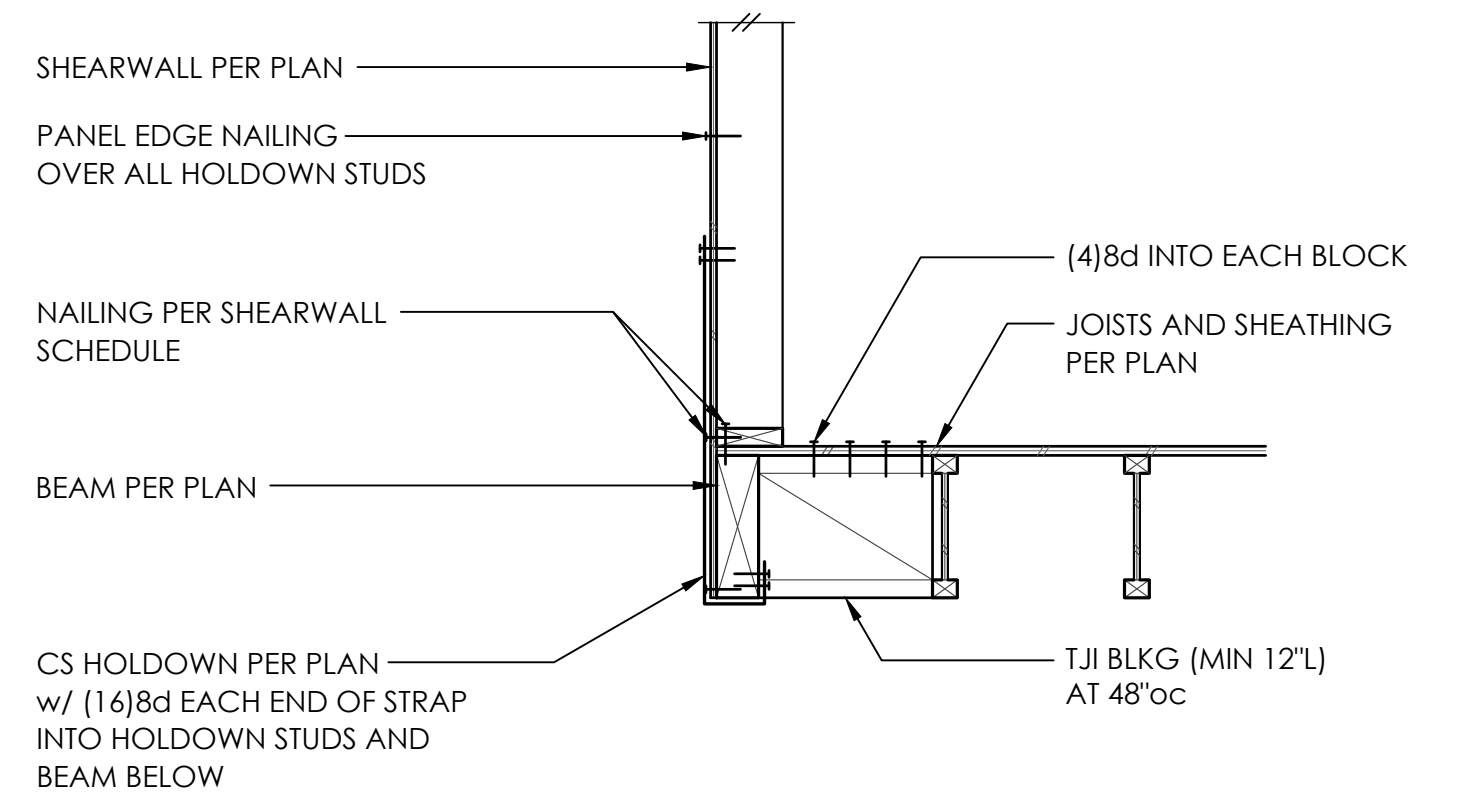
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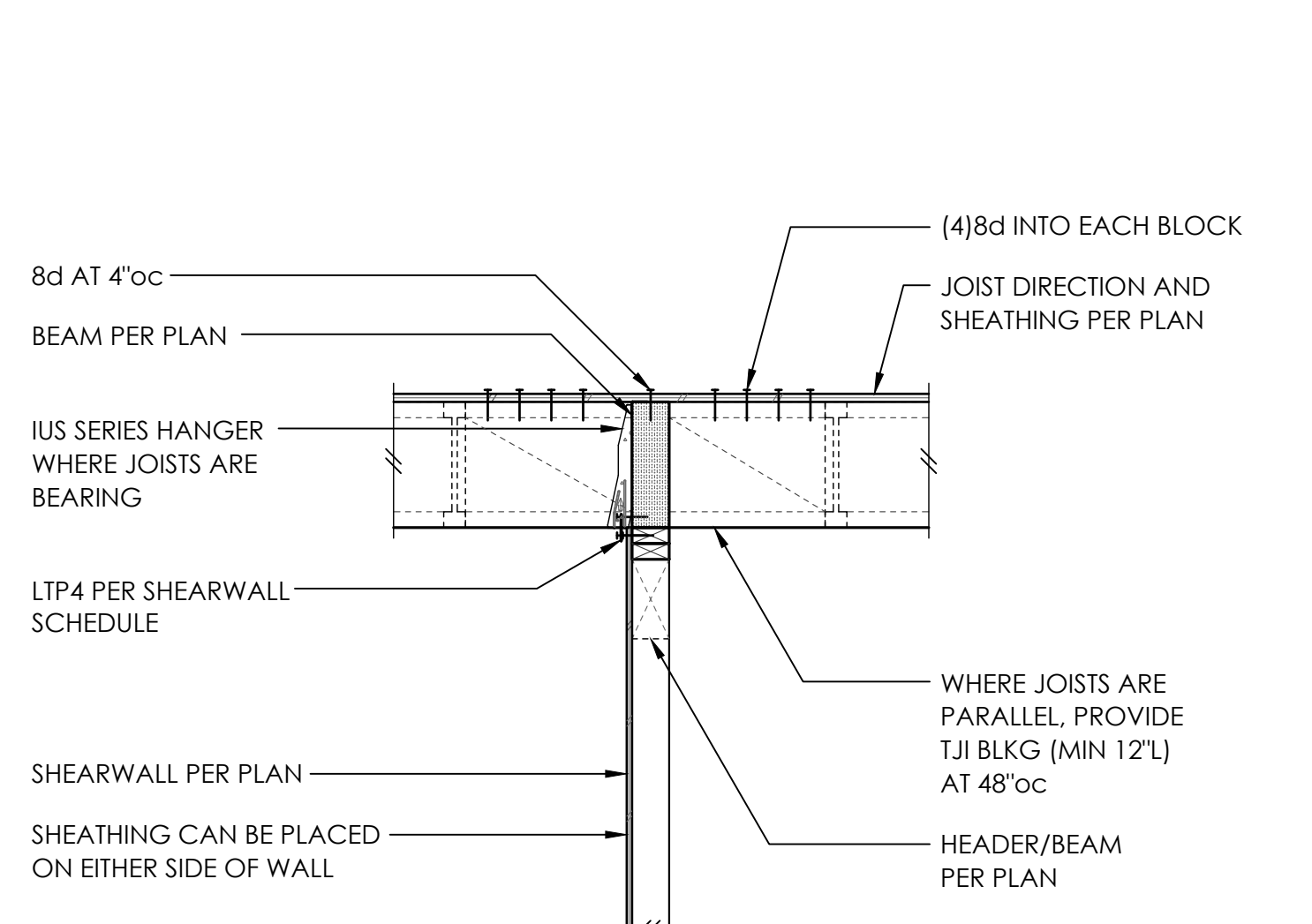
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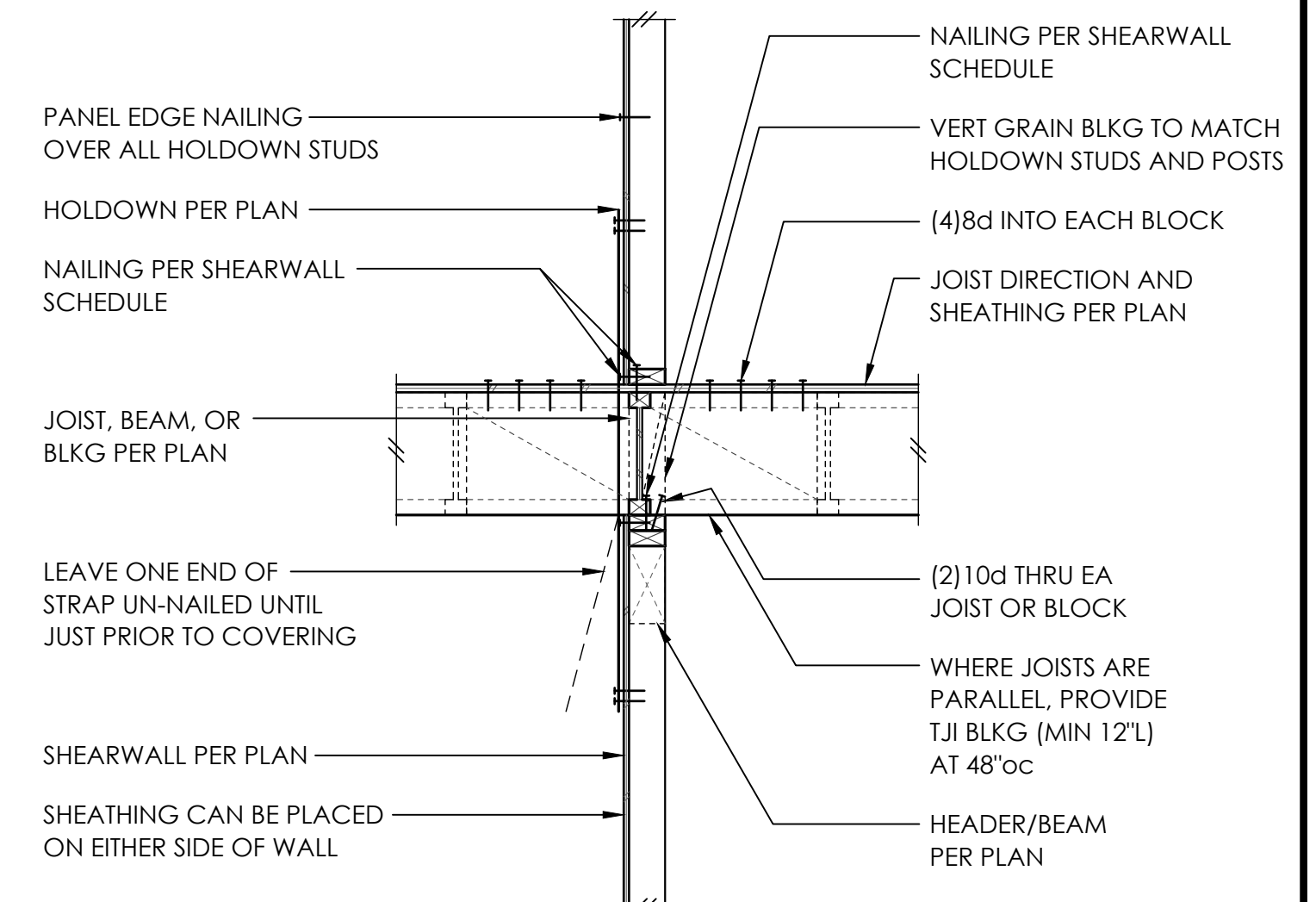
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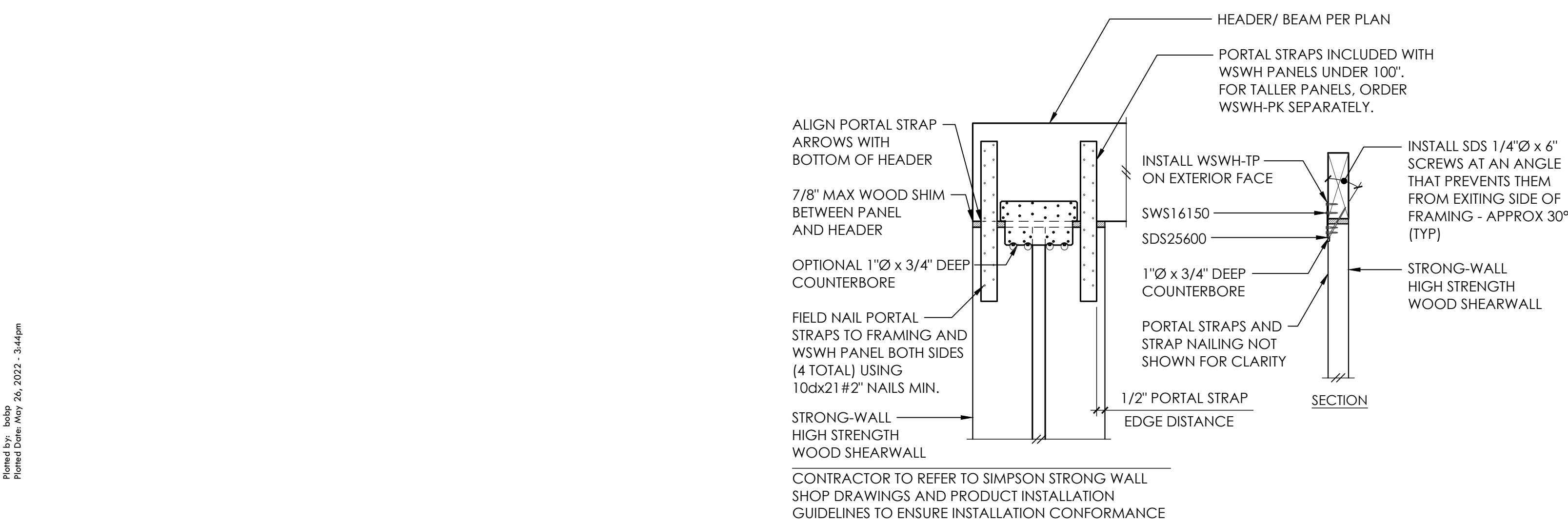
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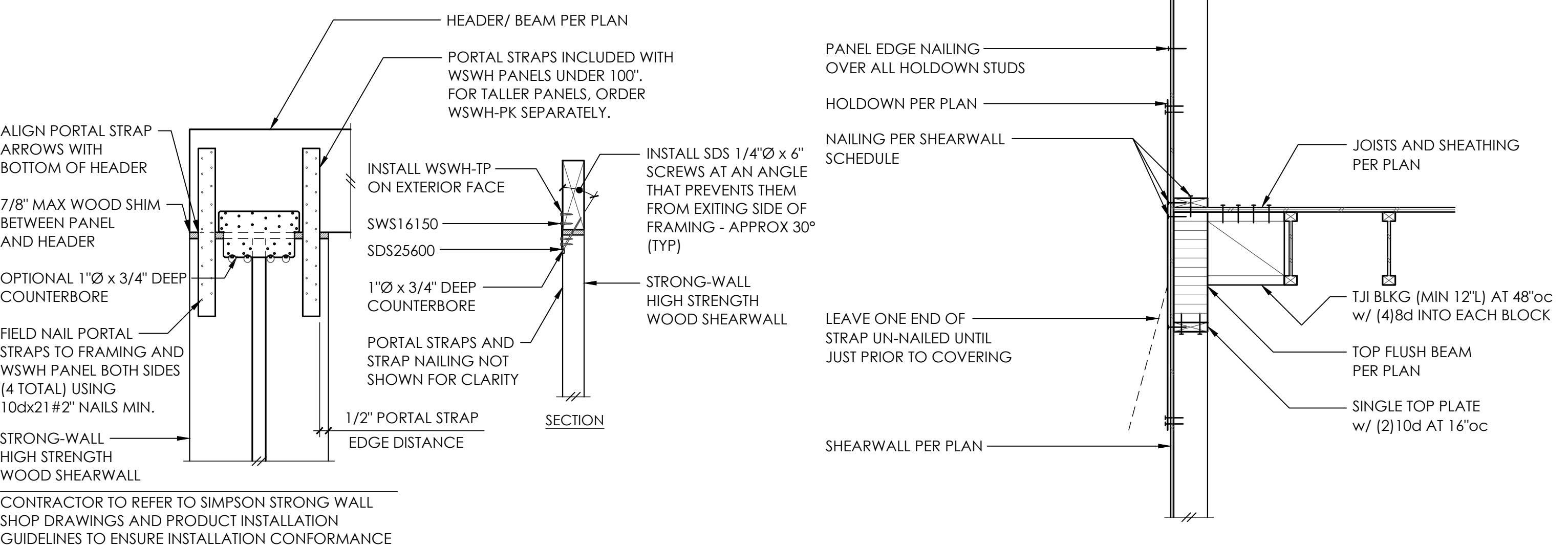
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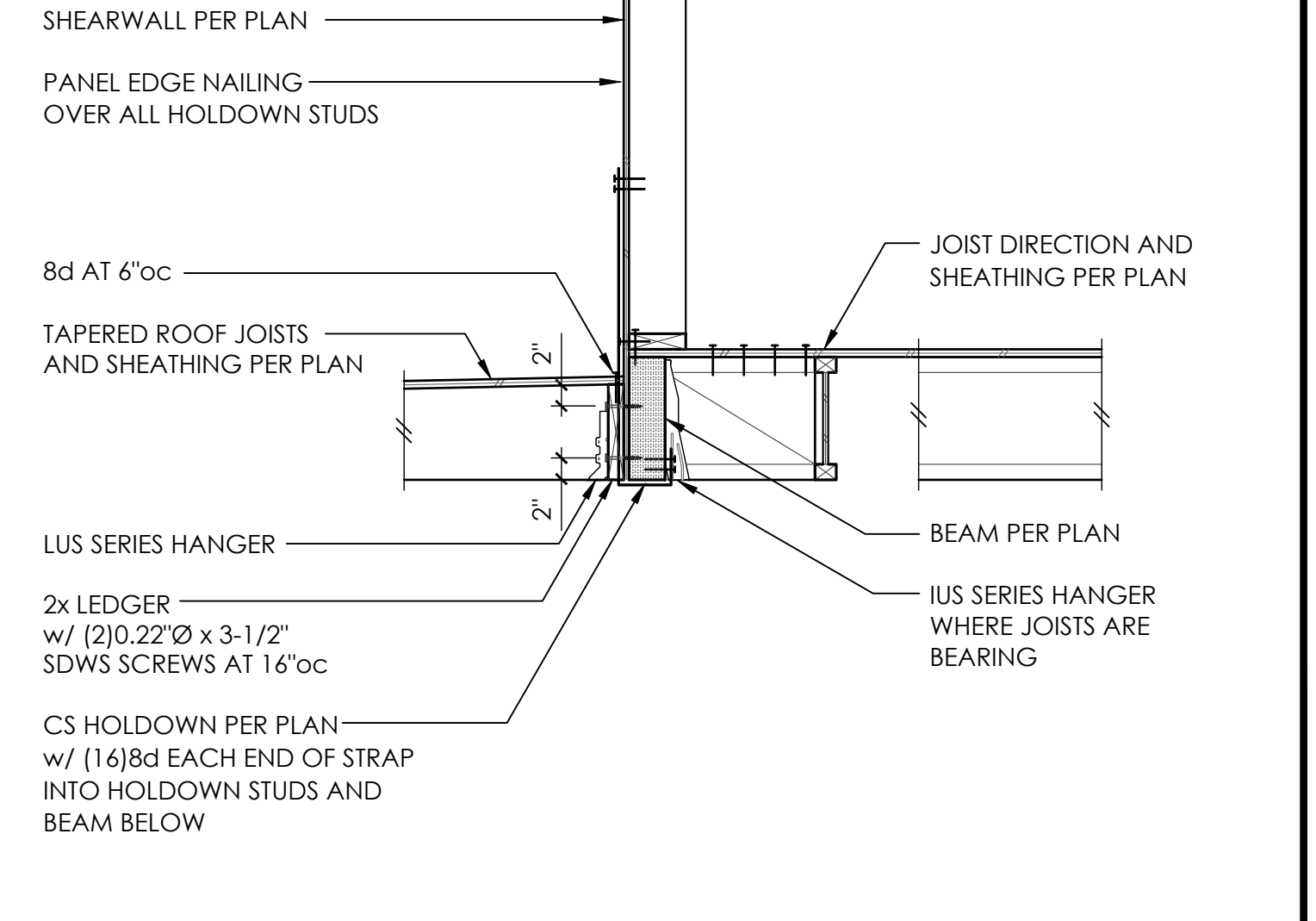
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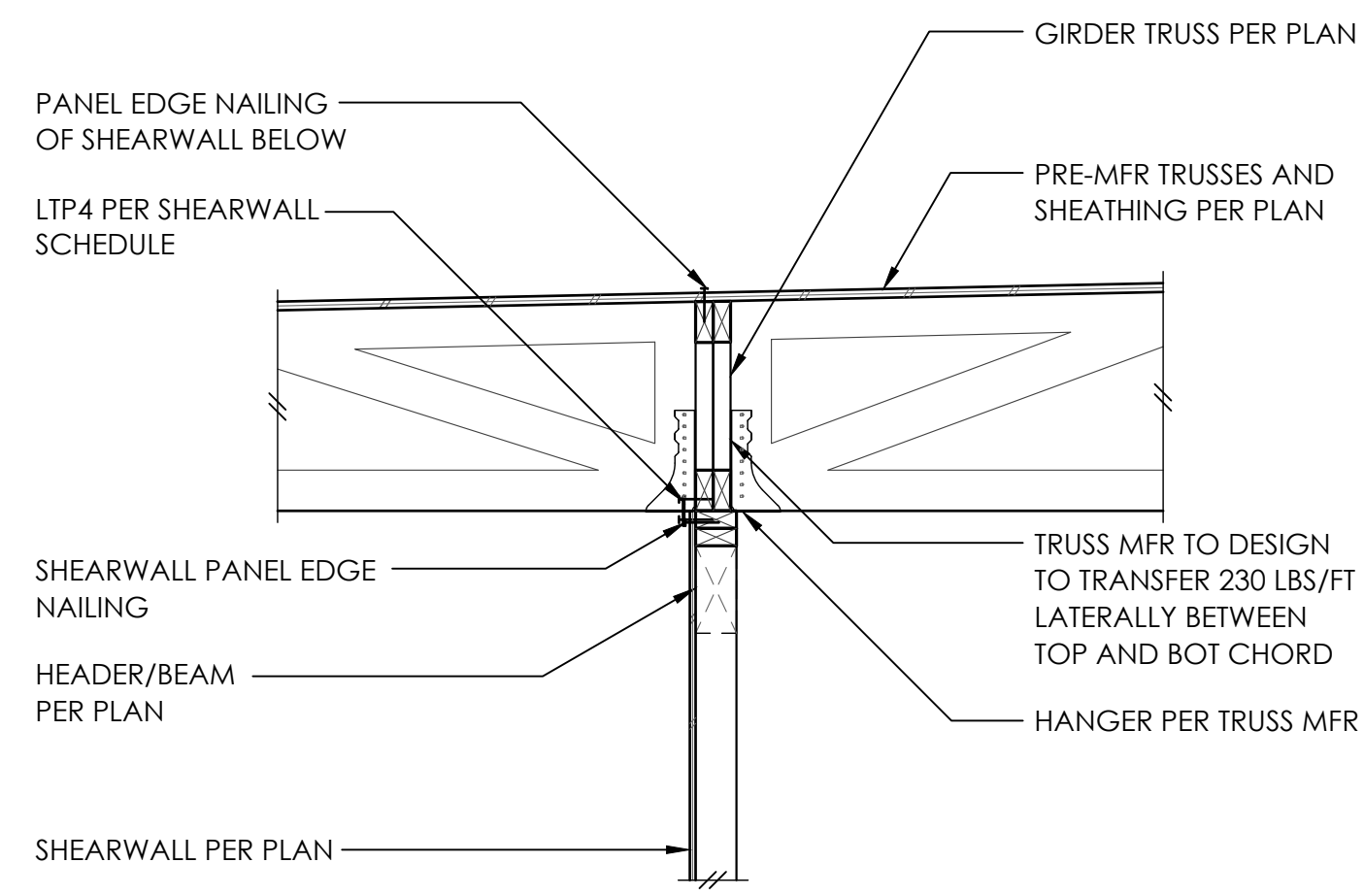
INSTALL SIMPSON STRONGWALL AND ANCHORAGE IN STRICT ACCORDANCE W/ ESR-2652

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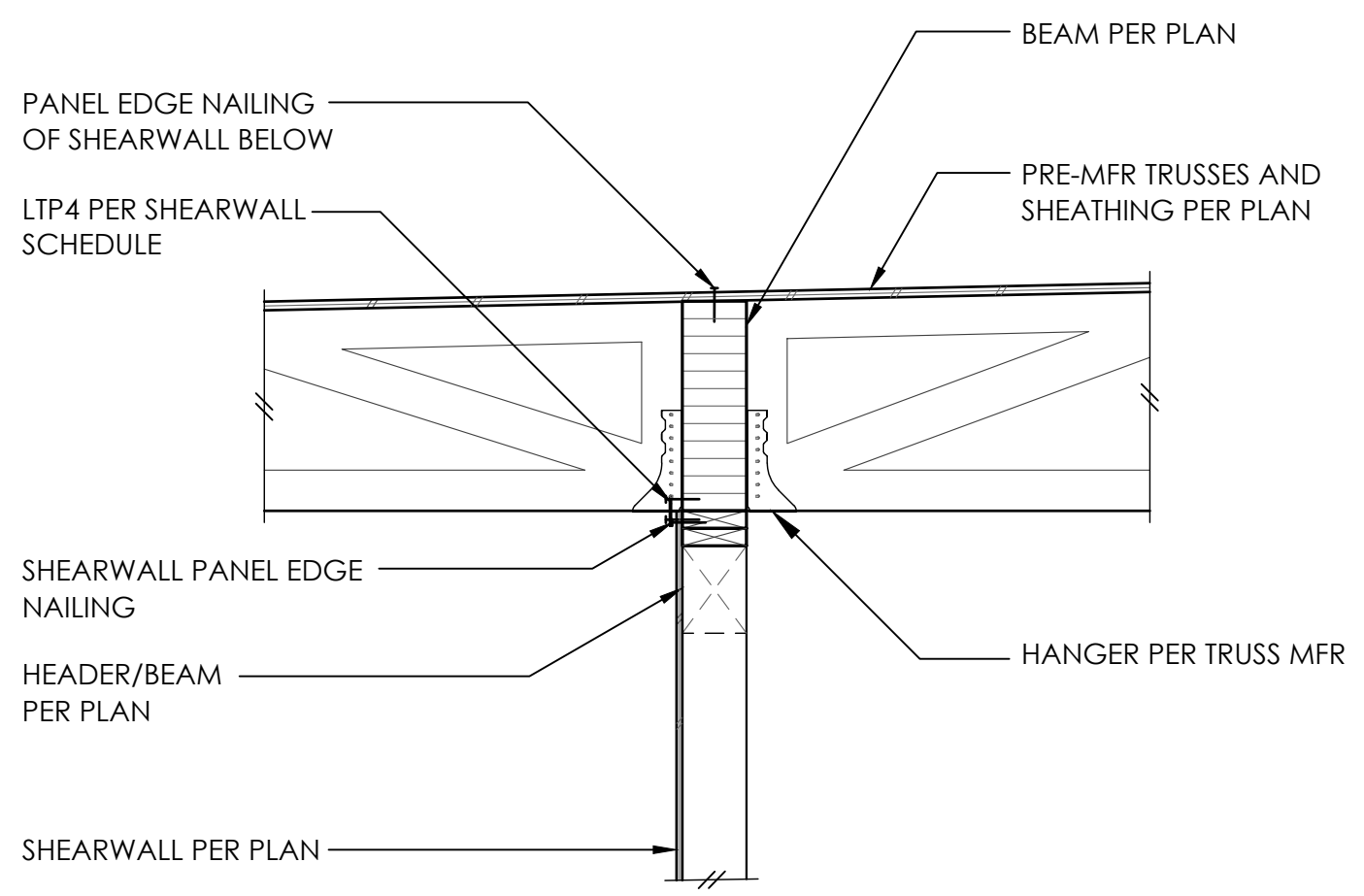
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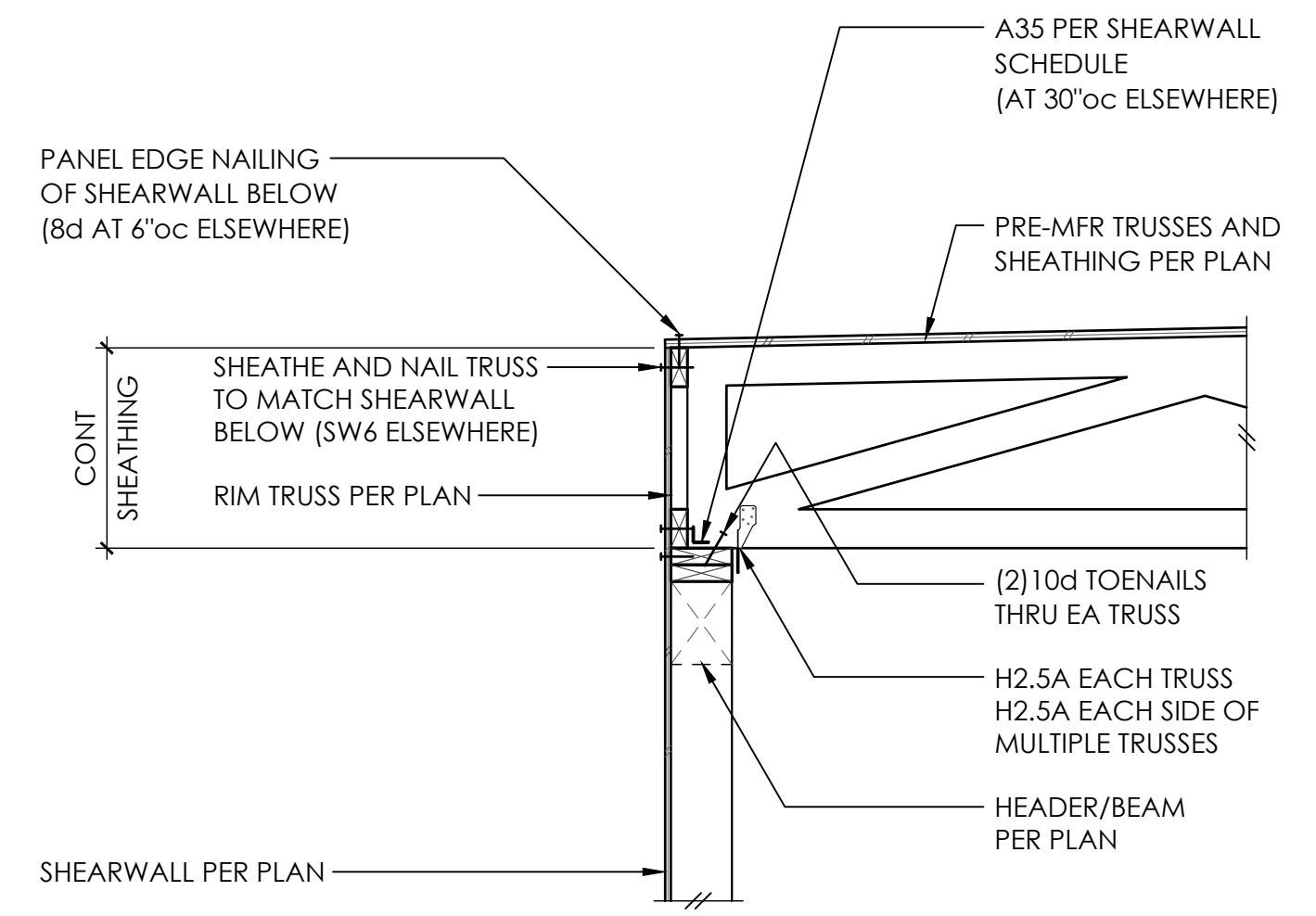
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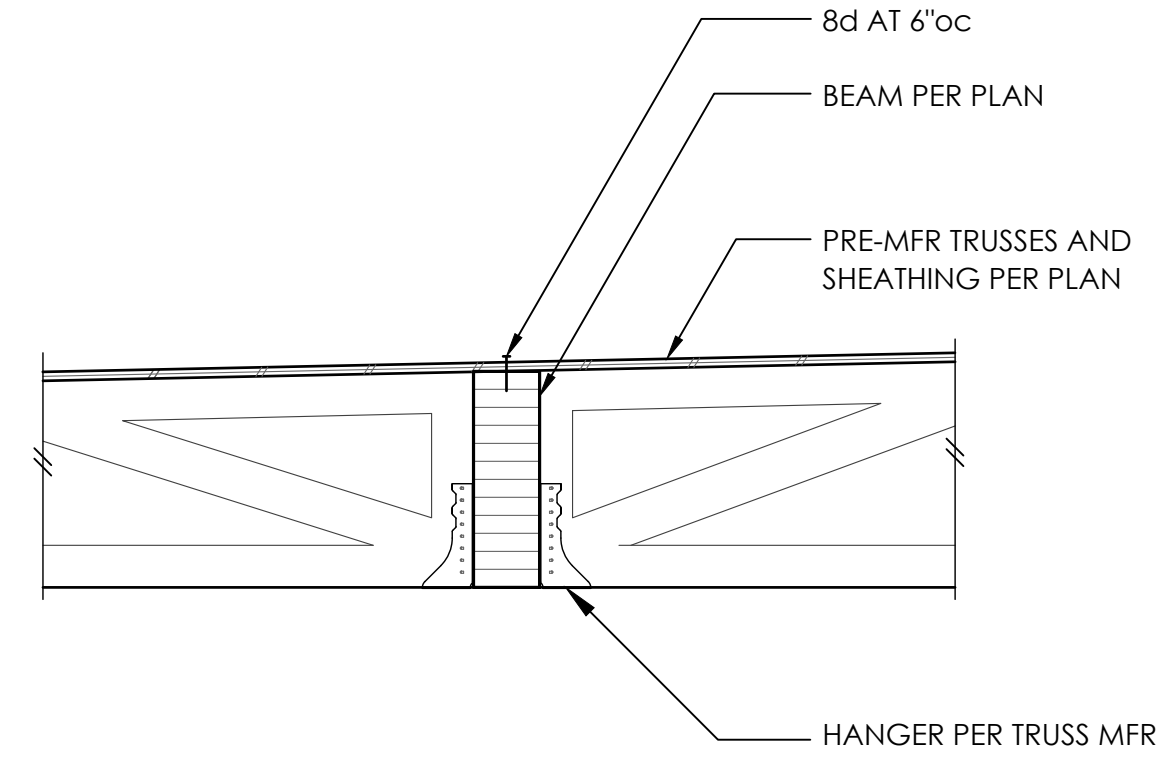
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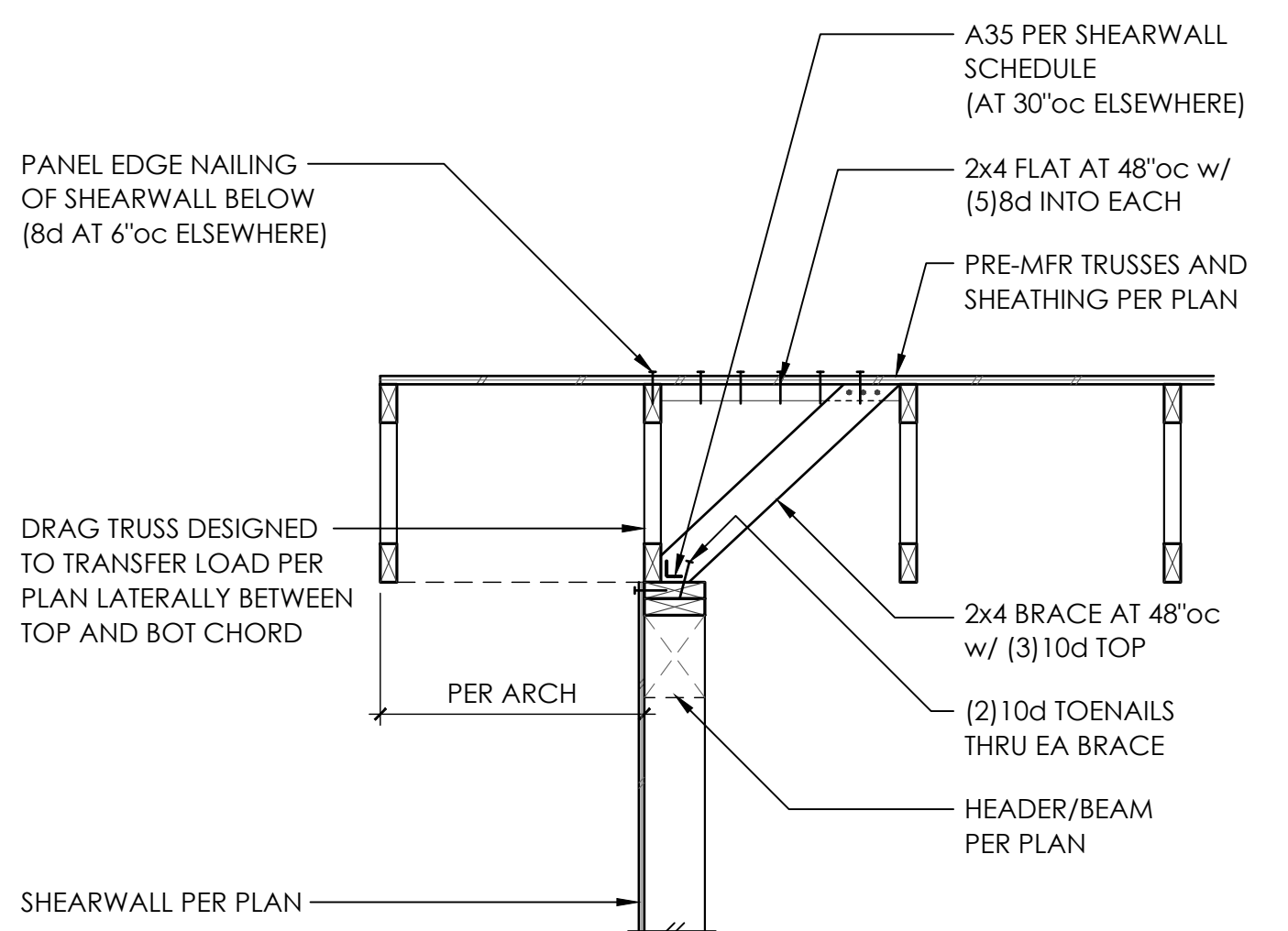
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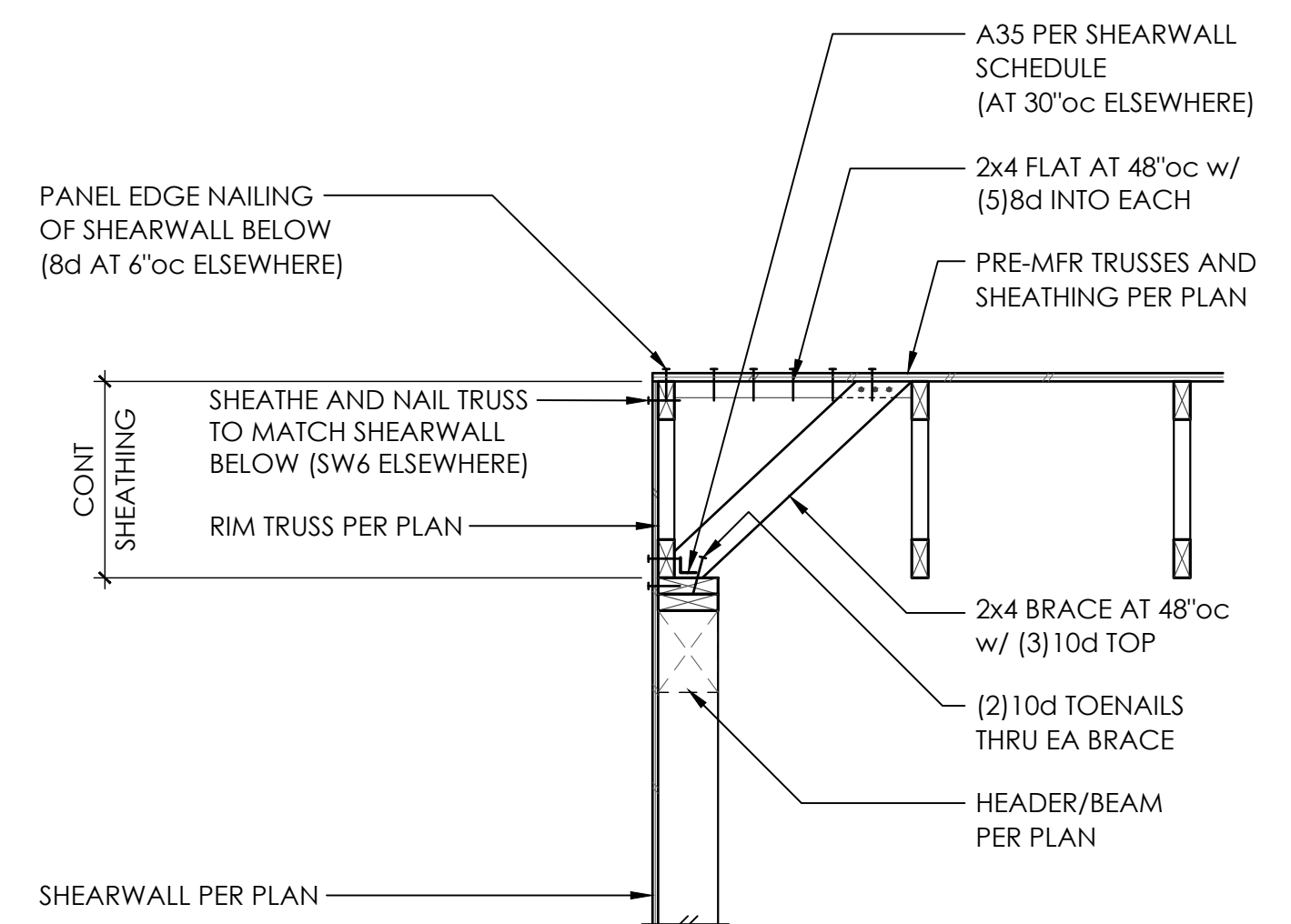
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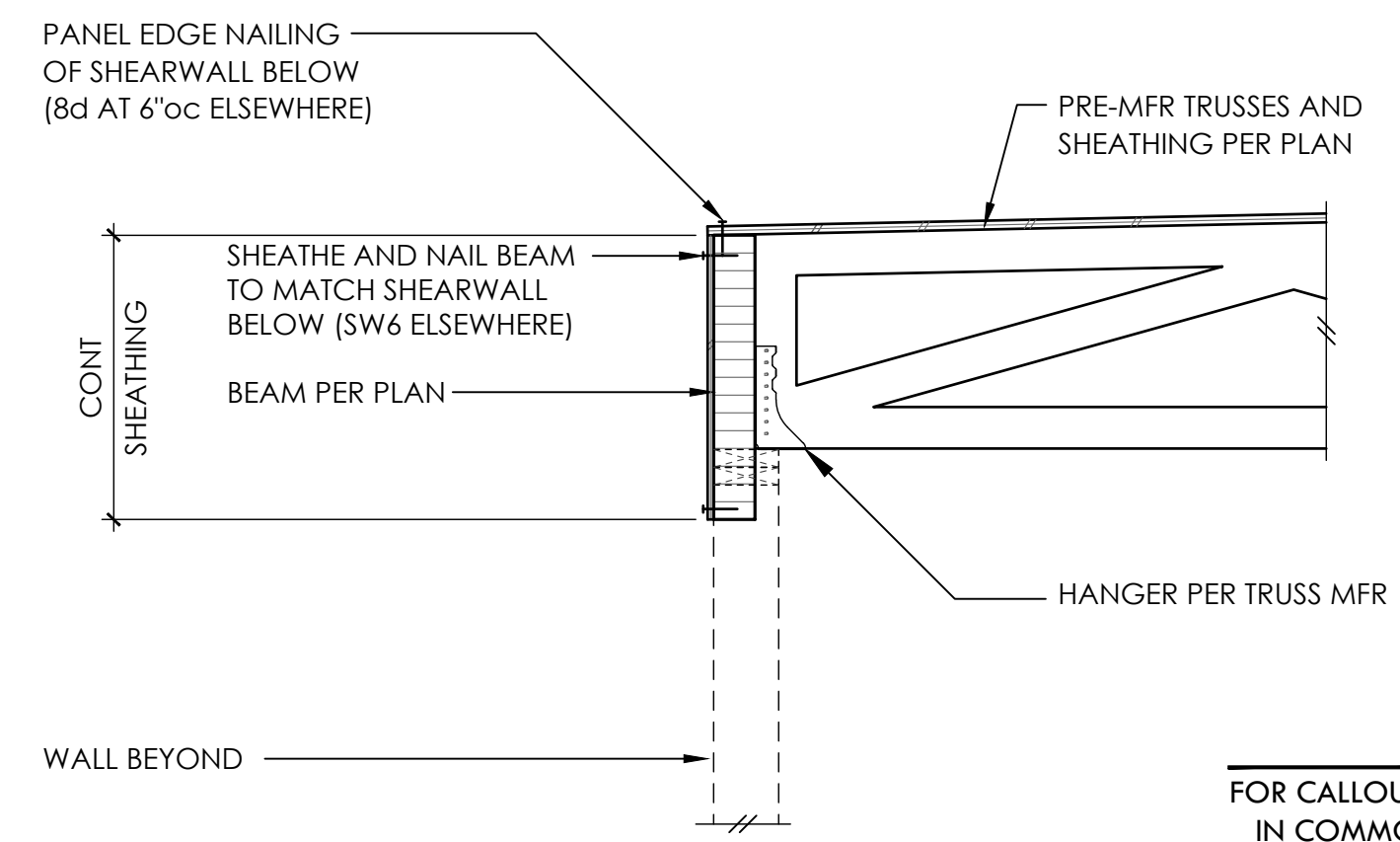
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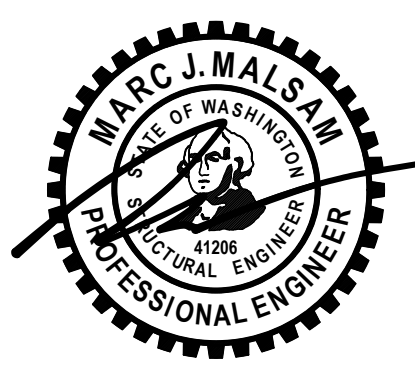
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FOR CALLOUTS  
IN COMMON  
REFER 4/S4.2



PROJECT NO 0329.2022.01.01  
PROJECT MANAGER WAC  
DRAWN JSD  
ENGINEER BLAKE RASSILYER 206.602.5452  
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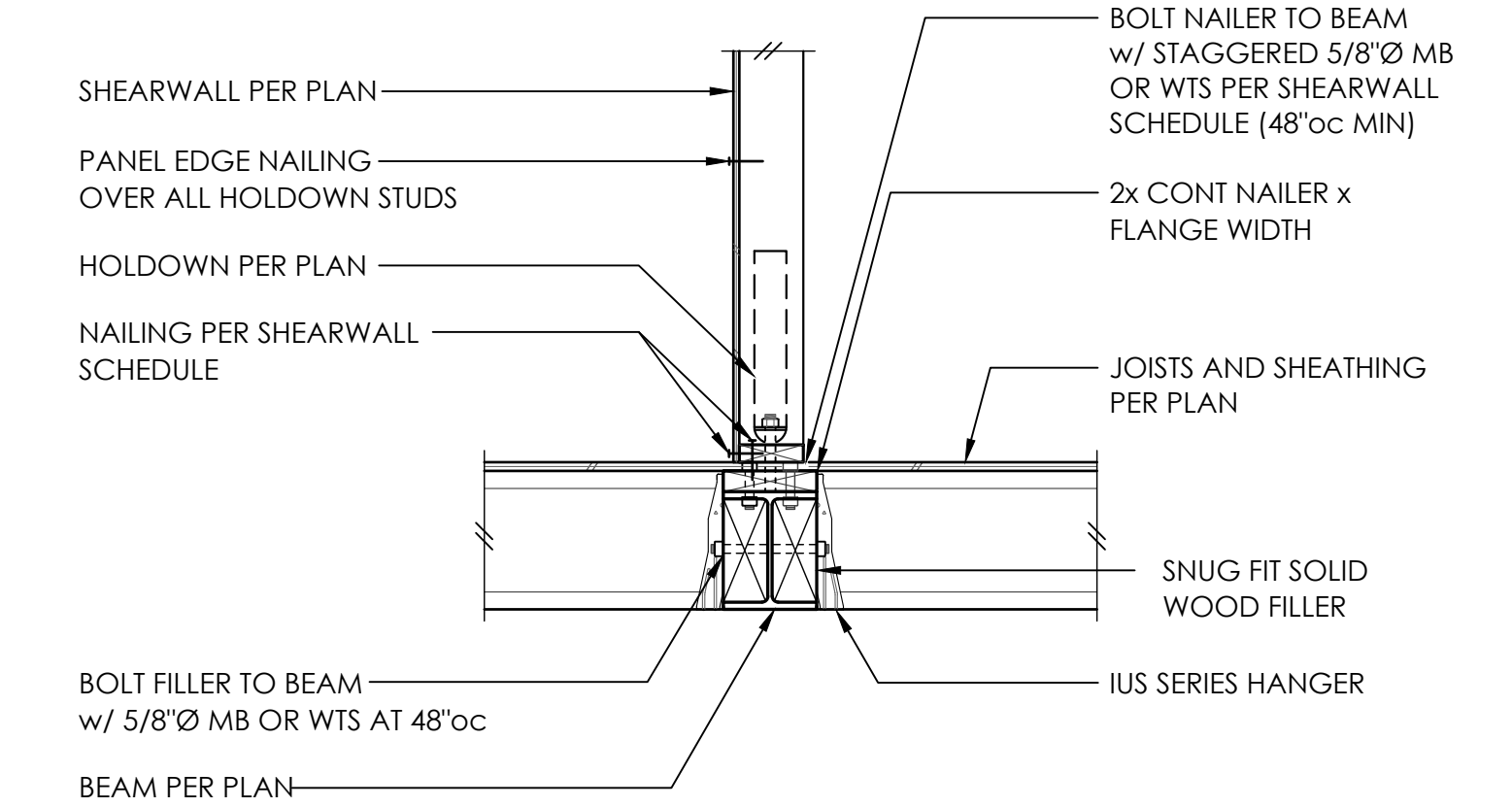
REV	DESCRIPTION	DATE
PERMIT SET		5.27.22

ARCH JULIAN WEBER ARCH + DESIGN 206.953.1305  
CLIENT COOMBS DEVELOPMENT

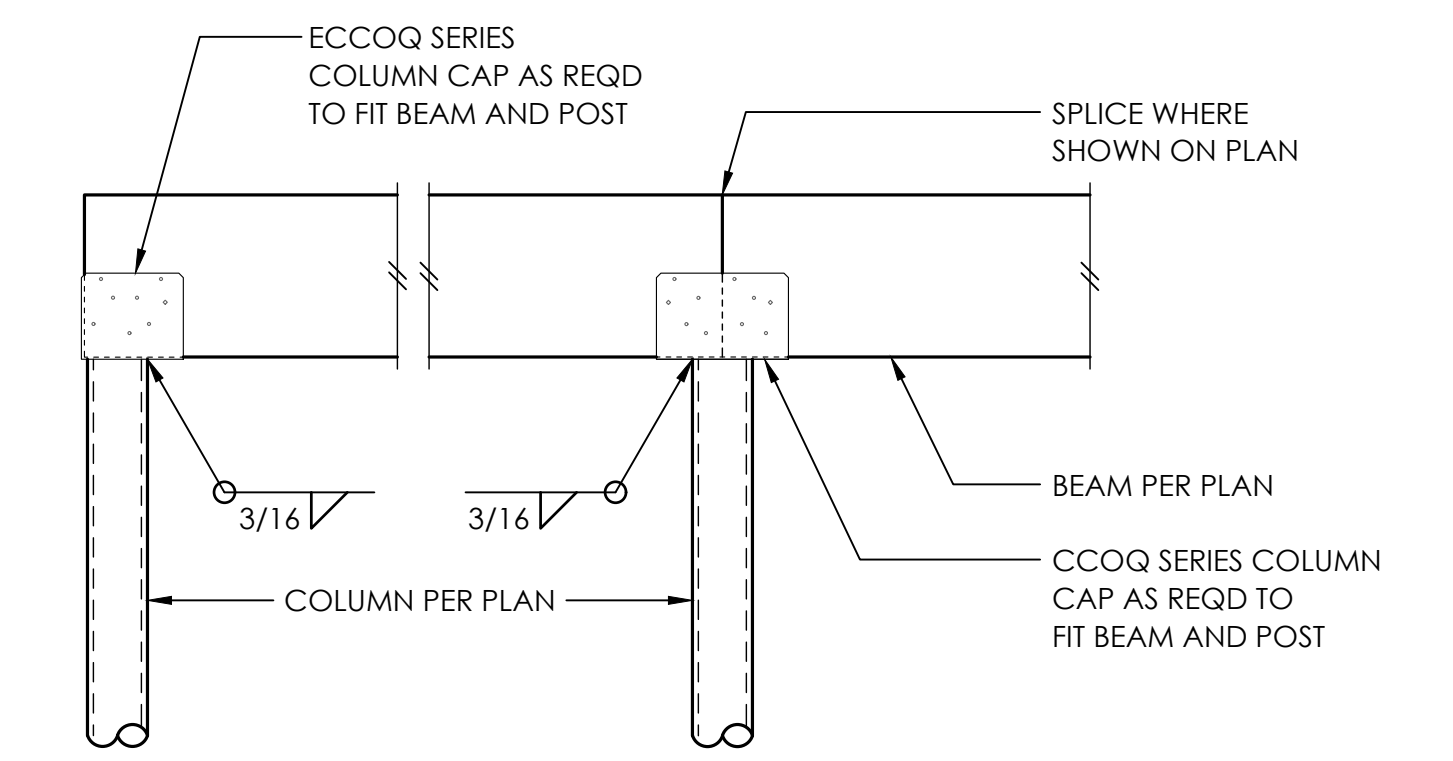
**WOOD FRAMING  
DETAILS**

**S4.2**  
SCALE - 3/4" = 1'-0"

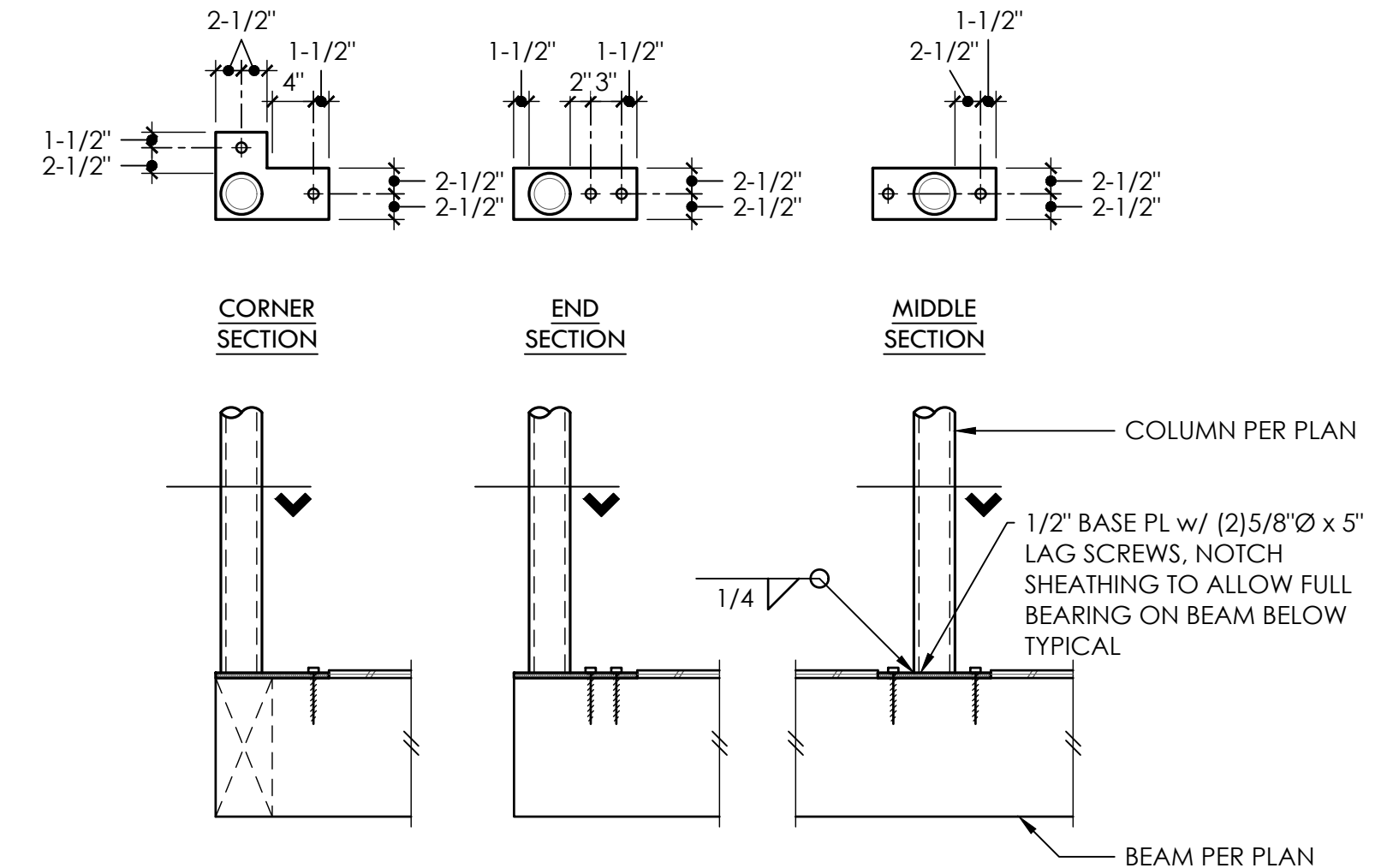




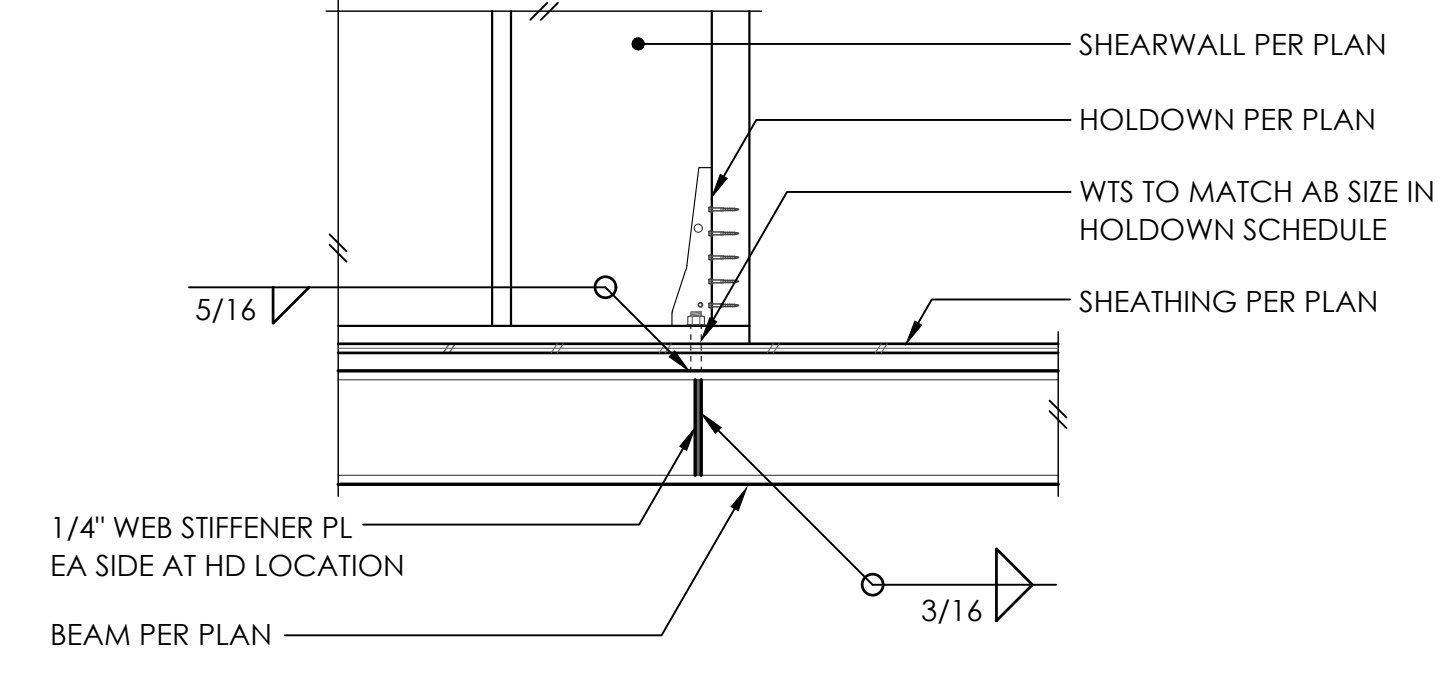
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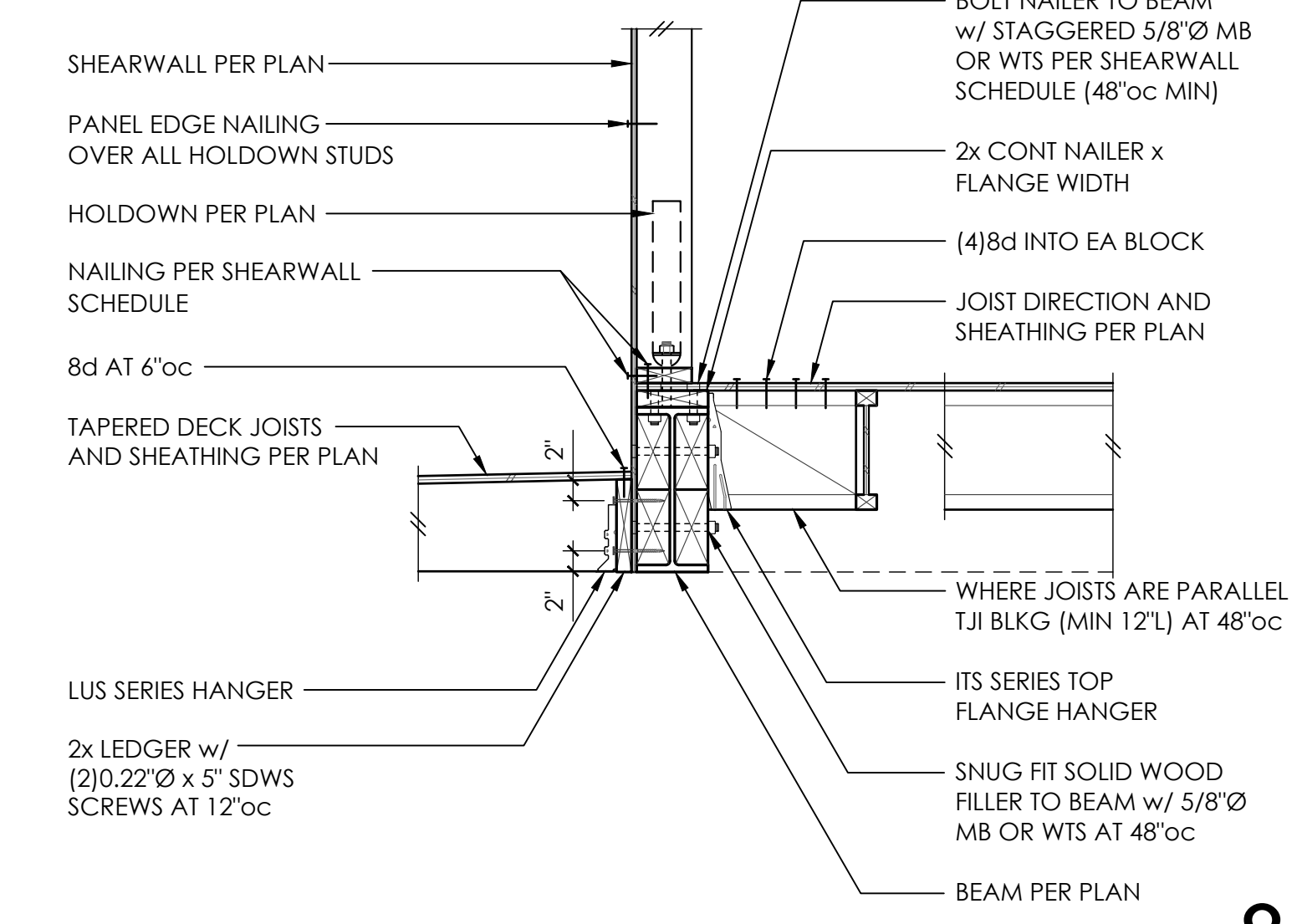
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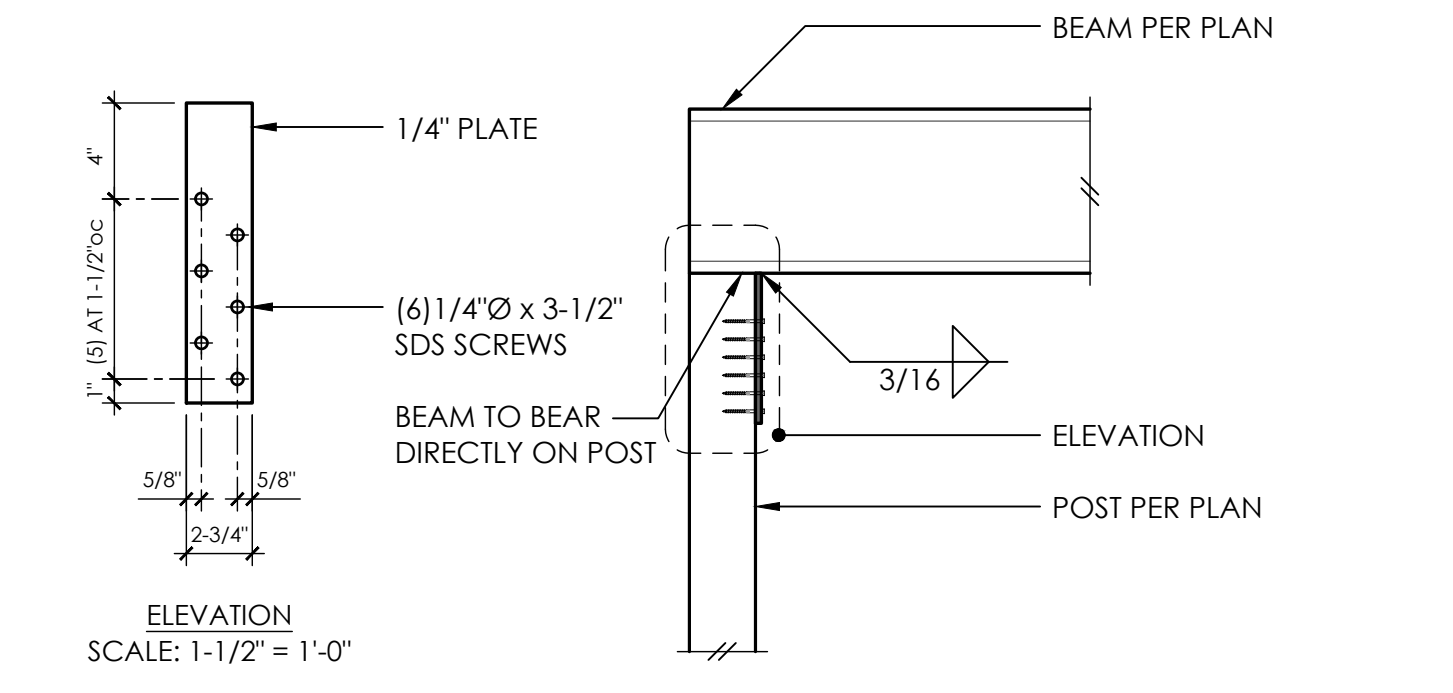
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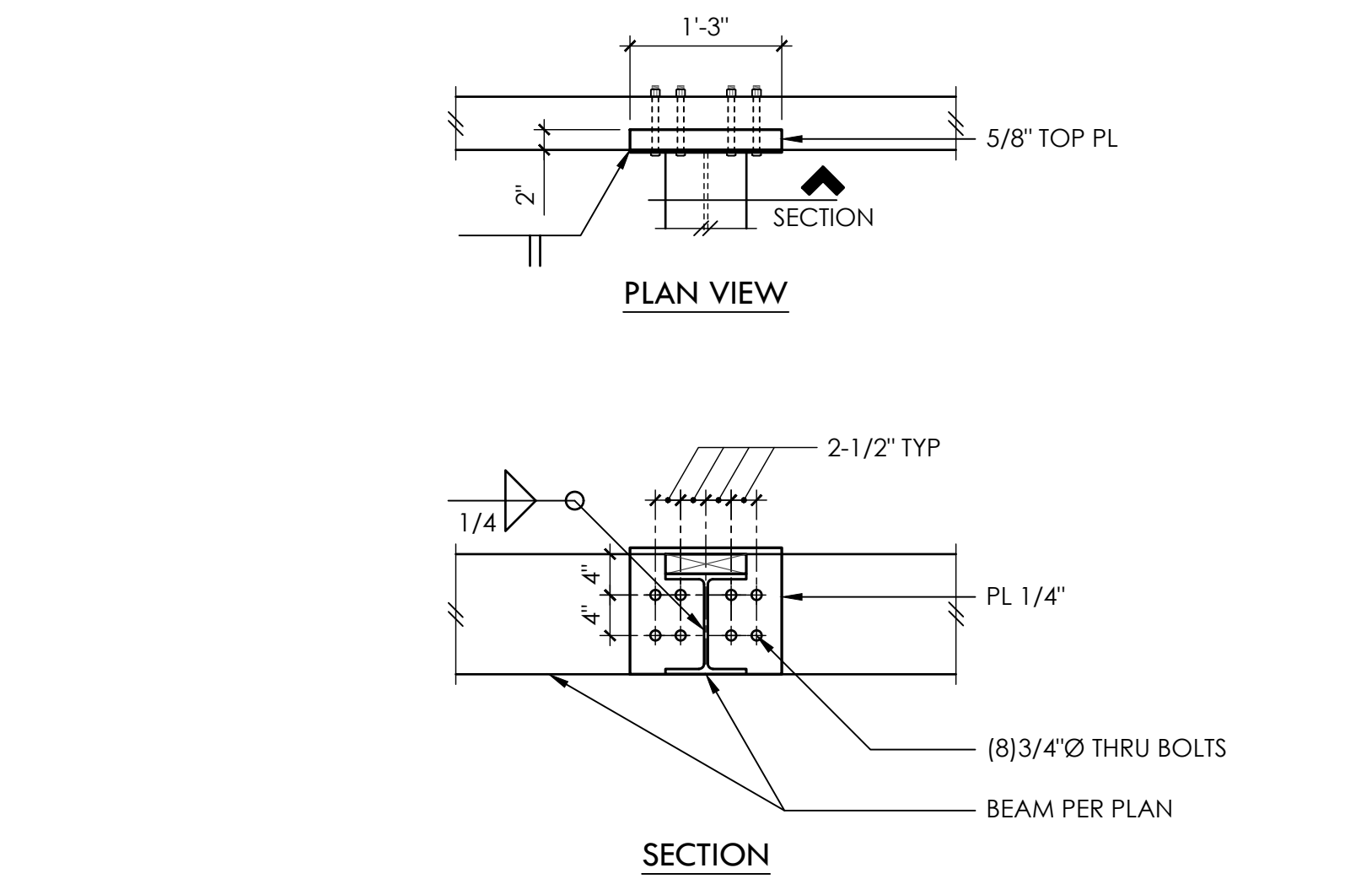
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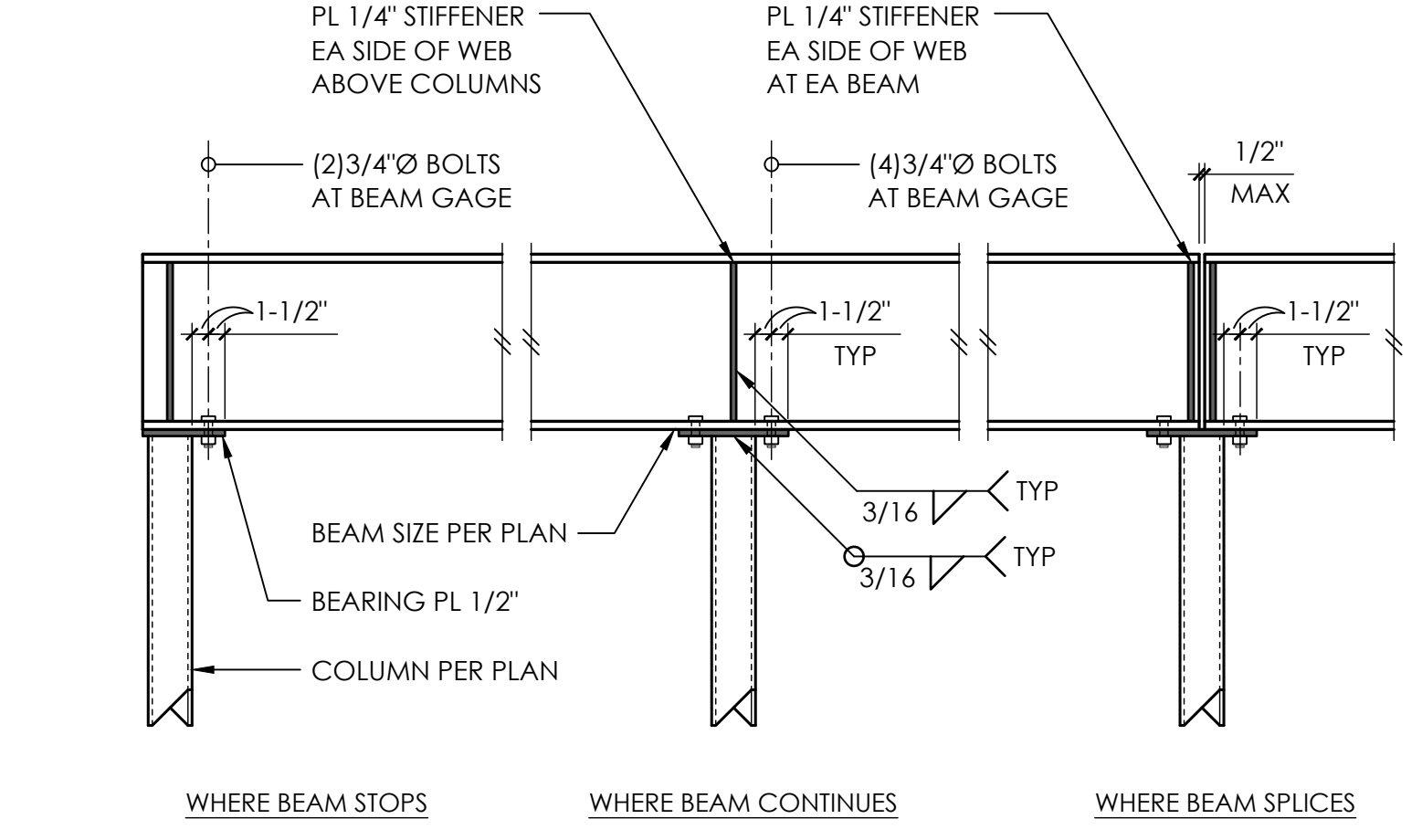
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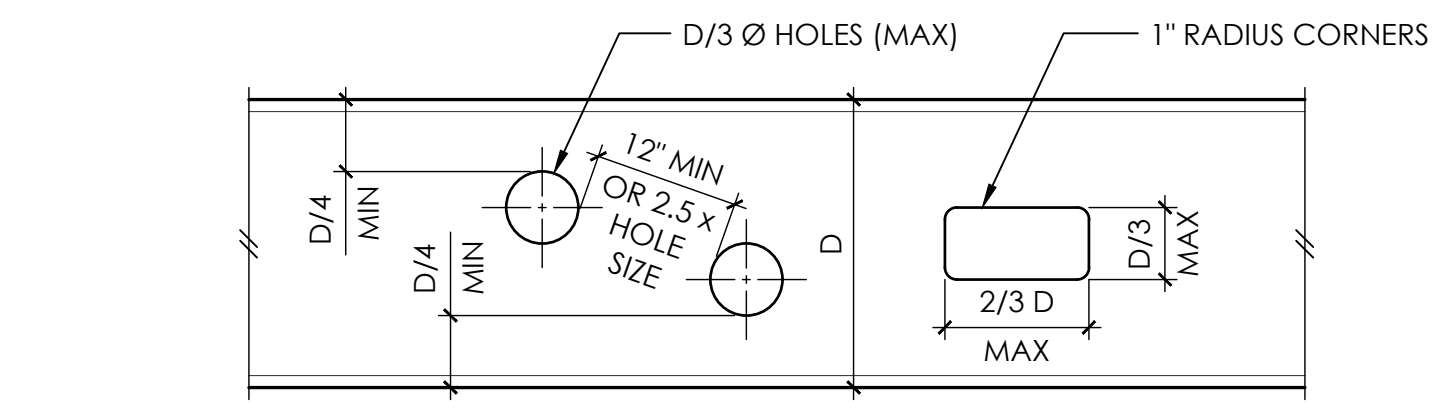
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1. CONTRACTOR SHALL COORDINATE SIZES AND LOCATIONS OF ALL BEAM PENETRATIONS w/ MECHANICAL DRAWINGS. ALL PENETRATIONS LARGER THAN 2"Ø SHALL BE SHOWN ON SHOP DRAWINGS OR SKETCHES AND SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. FIELD CUTTING NOT PERMITTED WITHOUT APPROVAL.
2. OPENINGS MAY OCCUR IN MIDDLE HALF OF BEAM LENGTH ONLY.
3. NO CUTTING MAY OCCUR IN TOP OR BOTTOM QUARTER OF BEAM DEPTH.
4. ADJACENT OPENINGS MUST BE SPACED AT THE GREATER OF, 12" OR 2.5 x LARGER OPENING SIZE, EDGE TO EDGE.
5. MAXIMUM SIZES OF OPENINGS SHALL BE D/3 Ø OR D/3 x 2D/3 AS SHOWN.
6. NO OPENINGS SHALL OCCUR WITHIN 12" OF AN ADJACENT BEAM CONNECTION.
7. REQUIRED OPENINGS NOT MEETING ABOVE CRITERIA SHALL BE SUBMITTED TO ENGINEER FOR REINFORCING DESIGN.

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