

# FINLEY POINT REMODEL

## PROJECT DIRECTORY

**PROJECT ADDRESS** 32511 TARRS LANE  
POLSON, MT 59860

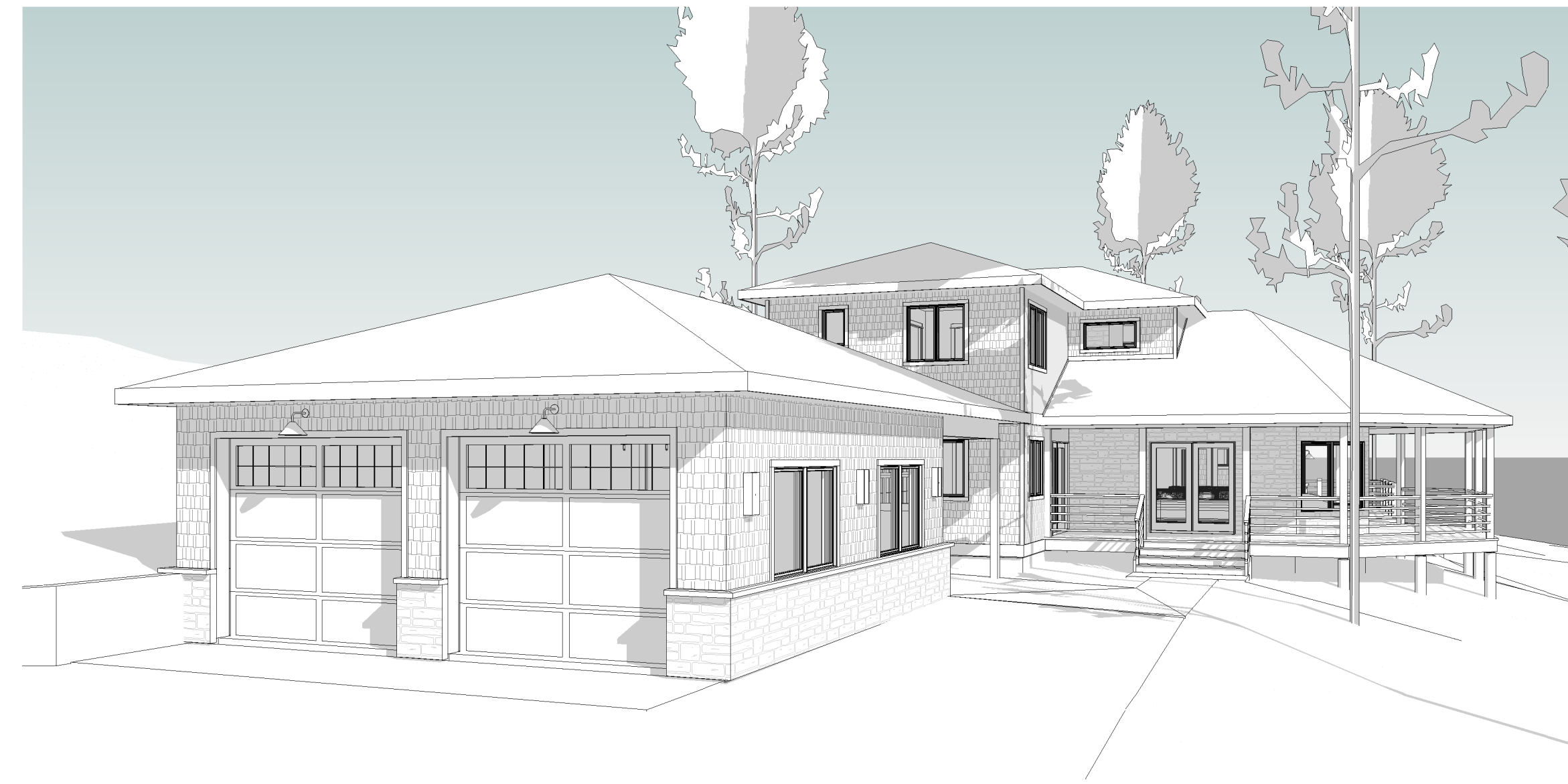
**OWNER** JEFFRY RODIN  
14061 SANDY HOOK RD. NE  
POULSBO, WA 98370

**ARCHITECT** NC DESIGN STUDIO - ARCHITECTS  
235 NORTH 1ST STREET WEST STE B  
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## DRAWING INDEX

- A0.1 Cover / Site Plan
- A2.2 First Floor Remodel Plan
- A2.3 Garage / Shop Plan
- A2.4 Roof Plan
- A3.1 Exterior Elevations
- A3.2 Exterior Elevations
- A4.1 Building Sections
- A6.1 Main Floor RCP
- S2.1 Foundation Plan
- S2.2 Floor Framing Plan
- S2.3 Roof Framing Plan
- S2.4 Garage Framing Plans
- S5.1 Structural Notes
- S5.2 Structural Details



## PROJECT STATISTICS

APPLICABLE CODES..... 2012 INTERNATIONAL BUILDING CODE  
BUILDING TYPE..... TYPE VB  
BUILDING OCCUPANCY..... R-3  
FIRE SPRINKLER..... NO

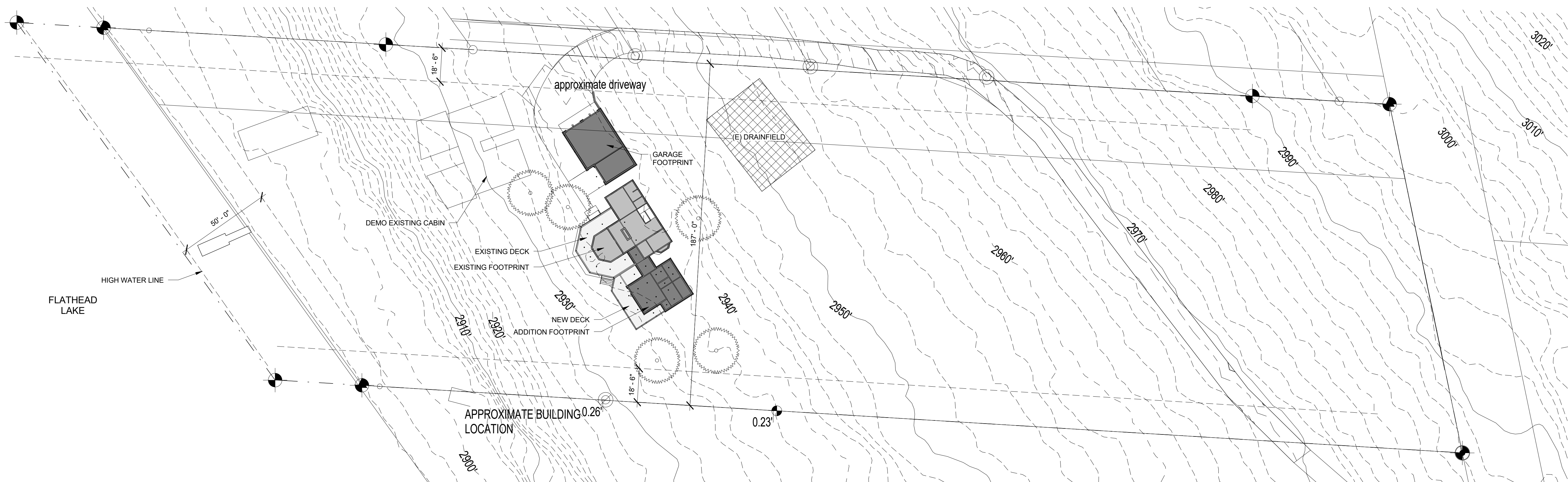
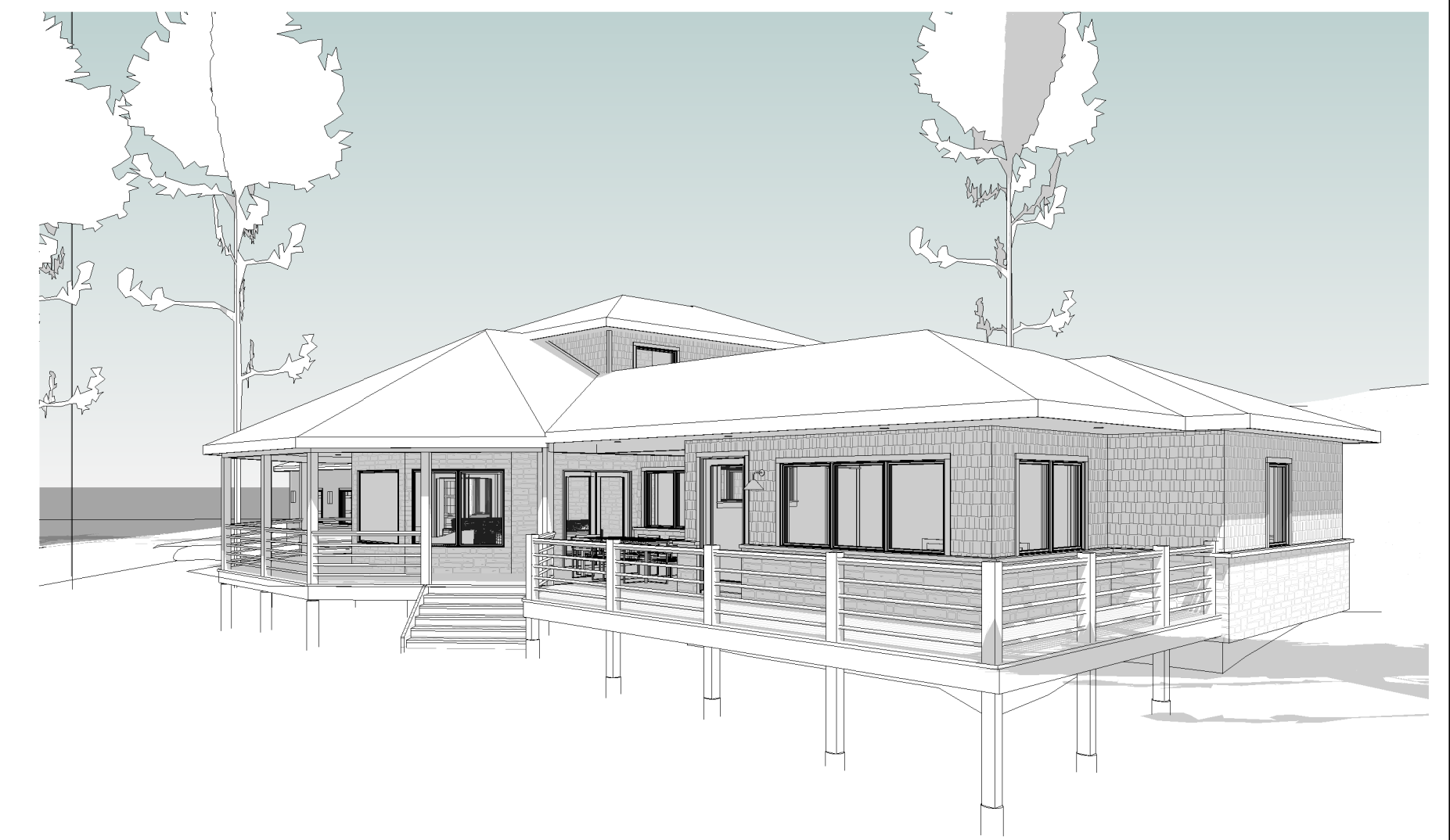
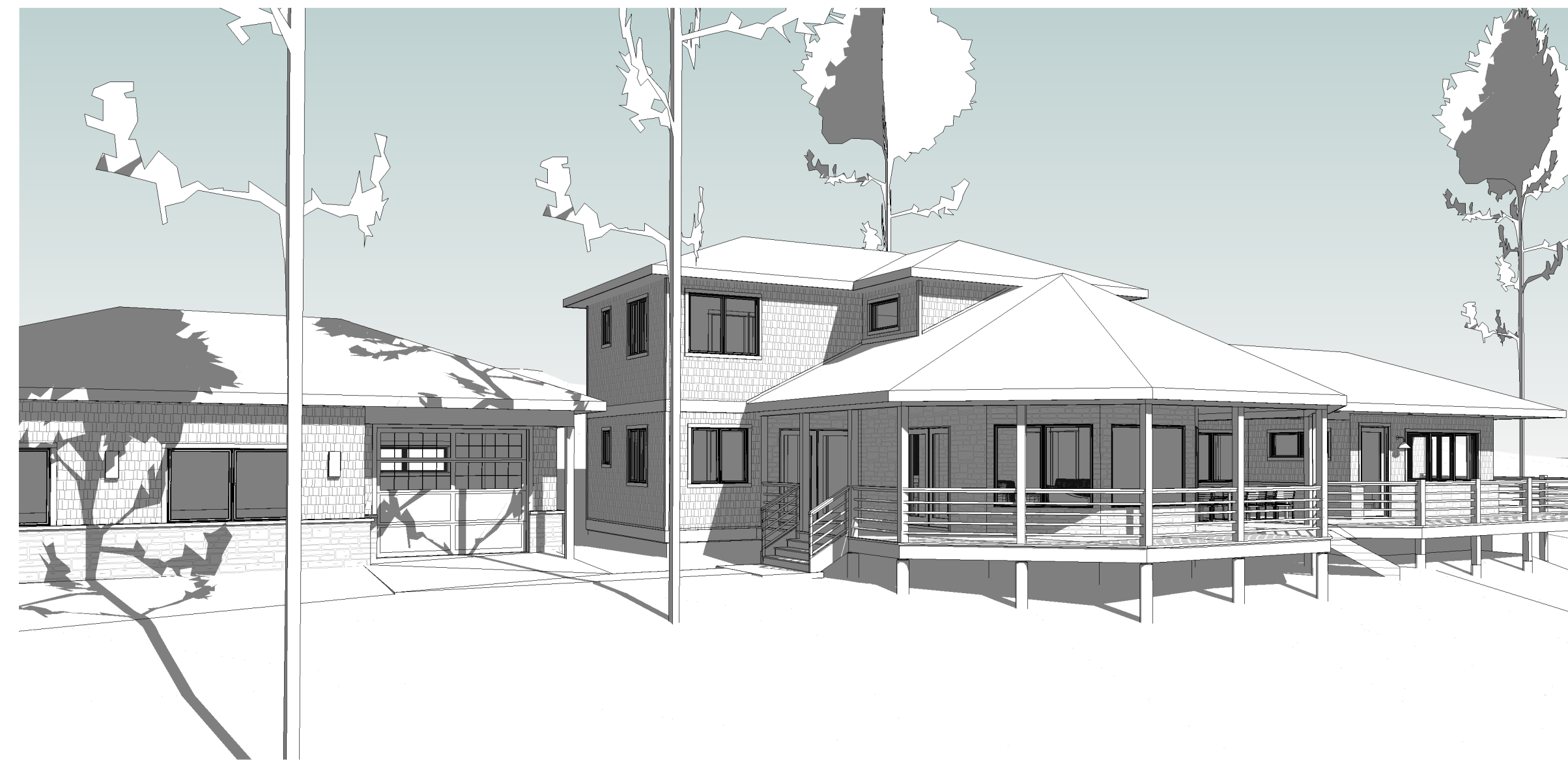
### PROJECT AREAS

EXISTING FIRST FLOOR..... 1,067 s.f.  
EXISTING SECOND FLOOR..... 507 s.f.  
EXISTING TOTAL..... 1,574 s.f.

FIRST FLOOR ADDITION..... 686 s.f.  
TOTAL HOUSE AREA..... 2,260 s.f.  
GARAGE / SHOP..... 816 s.f.

### LEGAL DESCRIPTION

15-3351-19-2-02-01-0000  
TARR'S VILLA S19, T23N, R19W, TR A AMENDED LOTS 4&5



1 Site Plan  
1" = 30'-0"

PRELIMINARY



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Cover /  
Site Plan

A0.1





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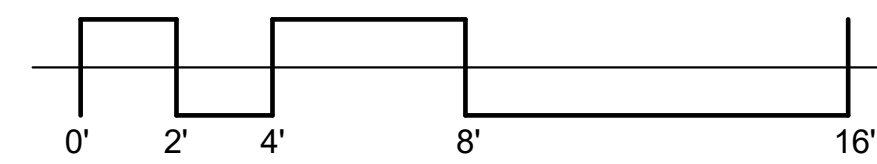
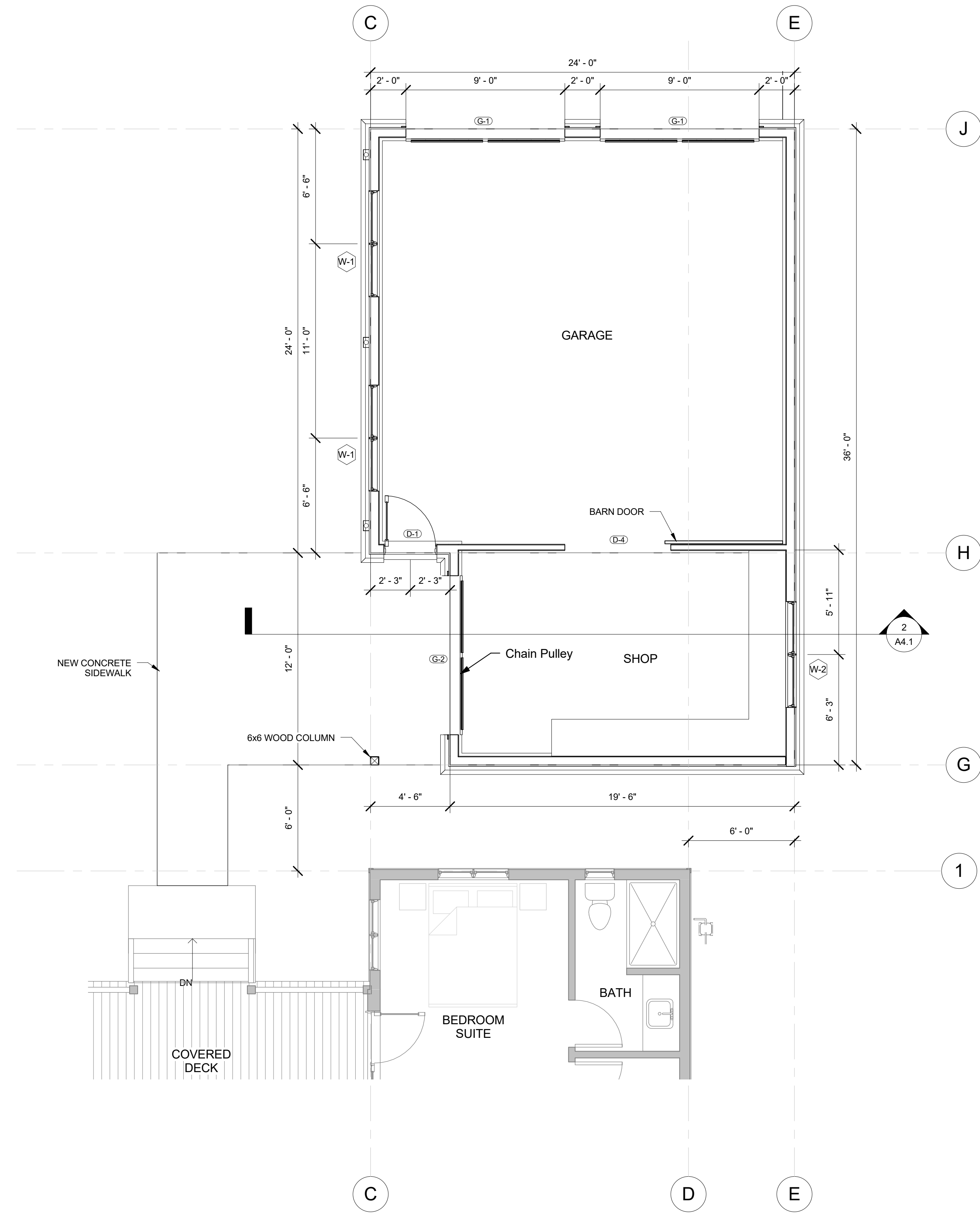
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Garage /  
Shop Plan

A2.3

Door Schedule					
Mark	Count	Width	Height	Function	Description
D-1	1	3' - 0"	7' - 0"	Exterior	Half Glass Entry
D-2	1	3' - 0"	7' - 0"	Exterior	Full Glass
D-3	1	3' - 0"	6' - 8"	Interior	Wood
D-4	1	6' - 0"	8' - 0"	Interior	Wood Barn Door
D-5	3	2' - 8"	6' - 8"	Interior	Wood
D-6	3	2' - 8"	6' - 8"	Interior	Wood Pocket
G-1	2	9' - 0"	8' - 0"	Exterior	Glass Top Garage Door
G-2	1	9' - 0"	8' - 0"	Exterior	Glass Top Garage Door
S-1	1	2' - 2"	6' - 8"	Interior	Glass Shower

Window Schedule					
Type Mark	Count	Width	Mull Width	Height	Description
W-1	5	3' - 0"	6' - 0"	4' - 0"	Double Casement
W-2	2	3' - 0"	6' - 0"	2' - 0"	Double Awning
W-3	1	3' - 0"		4' - 0"	Casement
W-4	1	3' - 0"	9' - 0"	4' - 0"	Triple Casement
W-5	1	6' - 0"		2' - 0"	Awning



1 Garage / Shop Plan  
1/4" = 1'-0"

PRELIMINARY



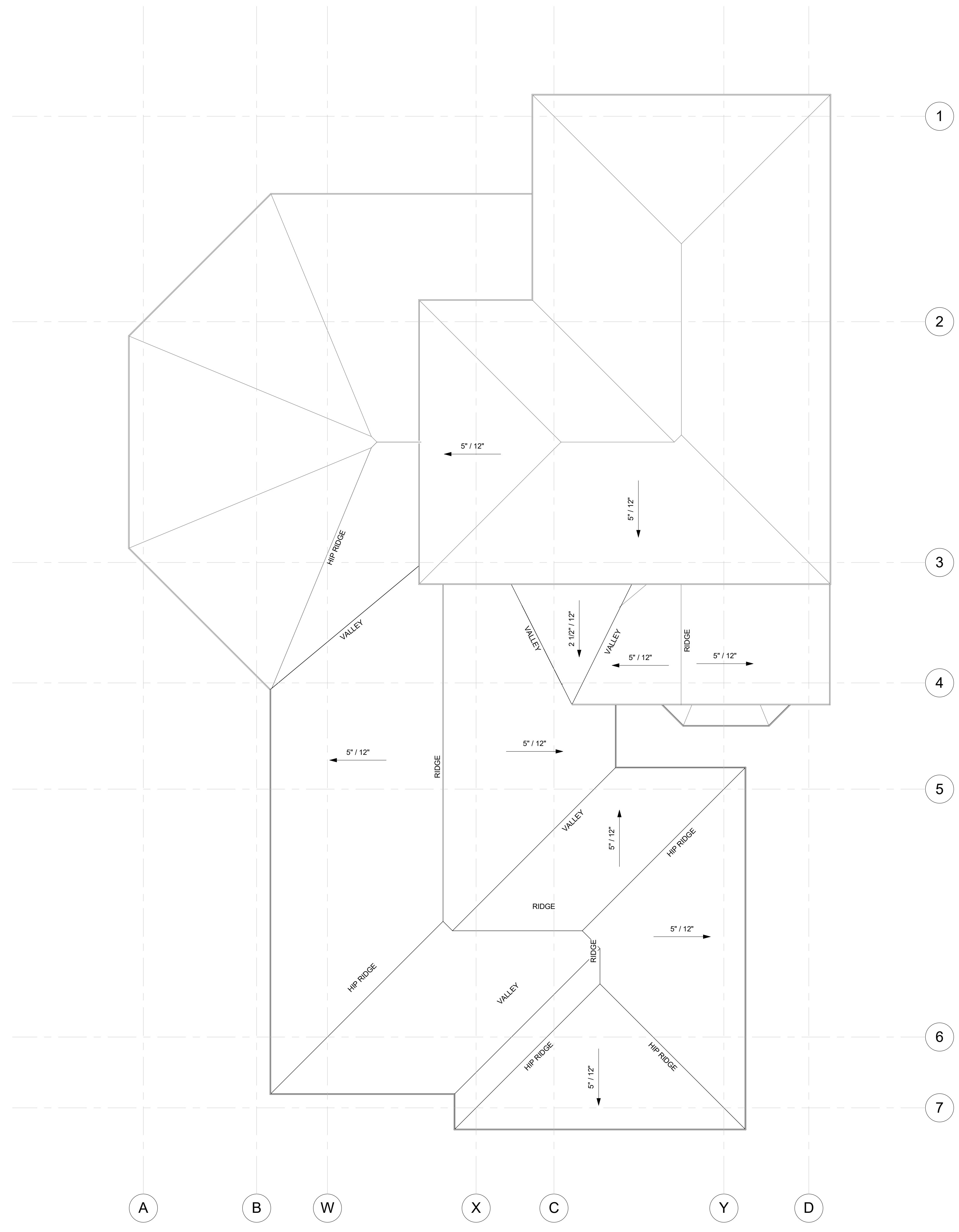
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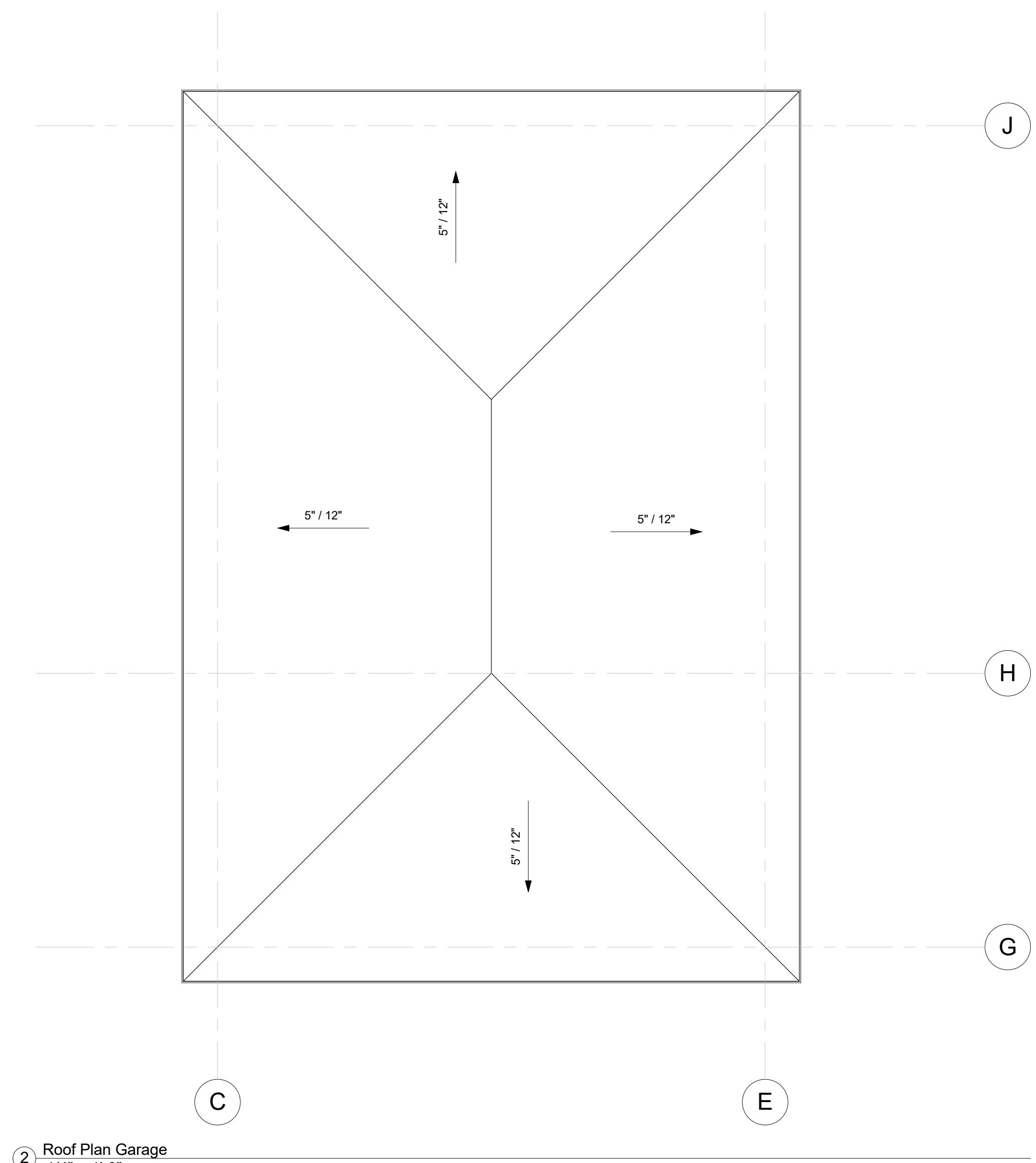
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Roof Plan

A2.4



① Roof Plan  
1/4" = 1'-0"



② Roof Plan Garage  
1/4" = 1'-0"



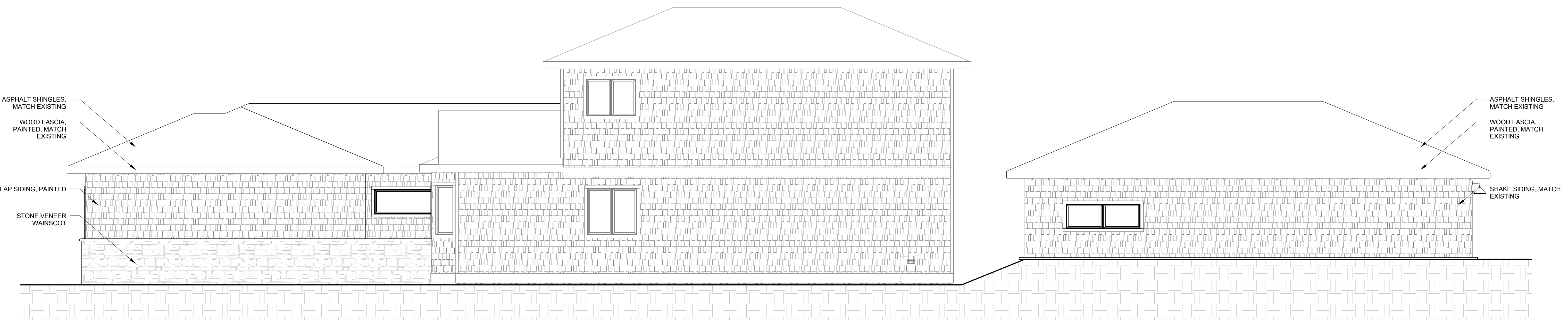
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① North Elevation  
1/4" = 1'-0"



② East Elevation  
1/4" = 1'-0"

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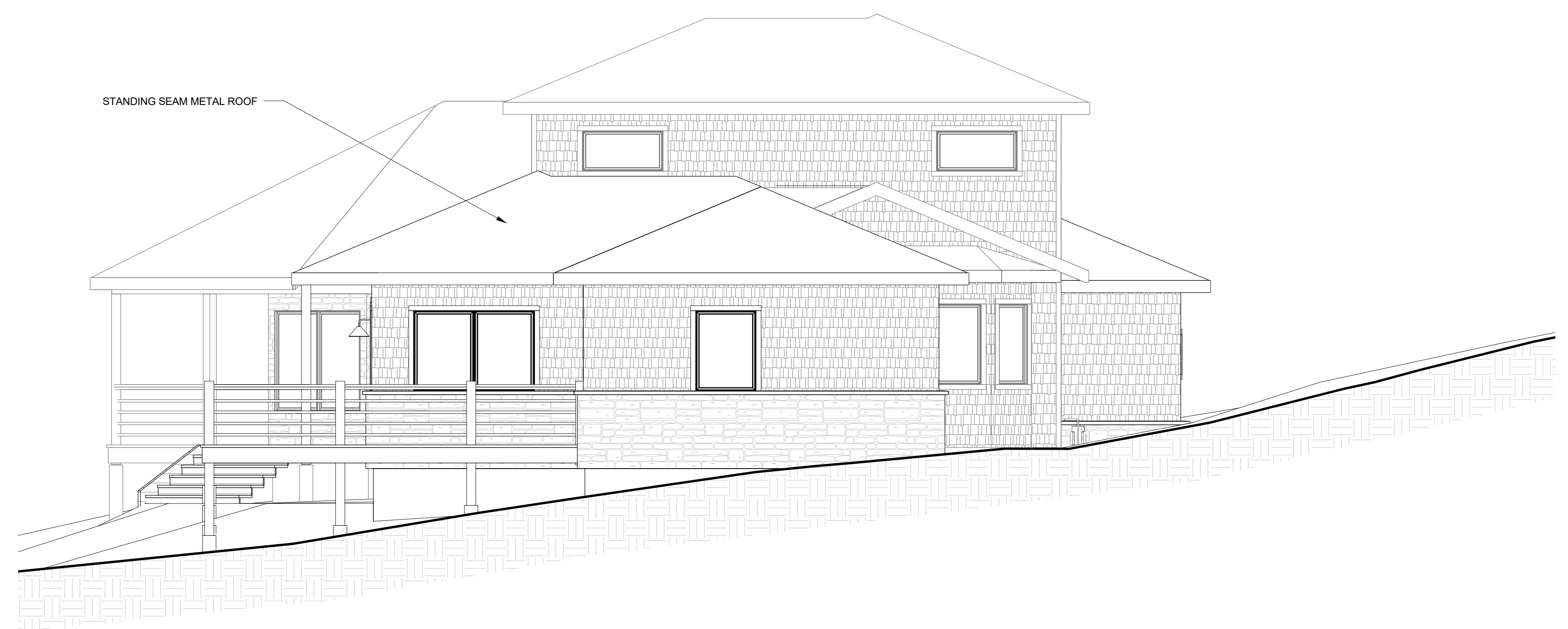
Exterior Elevations

A3.1

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① South Elevation  
1/4" = 1'-0"



② West Elevation  
1/4" = 1'-0"

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3251 1 Tarrs Lane  
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- ASPHALT SHINGLES, MATCH EXISTING
- WOOD FASCIA, PAINTED, MATCH EXISTING
- LAP SIDING, PAINTED.
- STONE VENEER WAINSCOT
- WOOD COLUMN, STAINED

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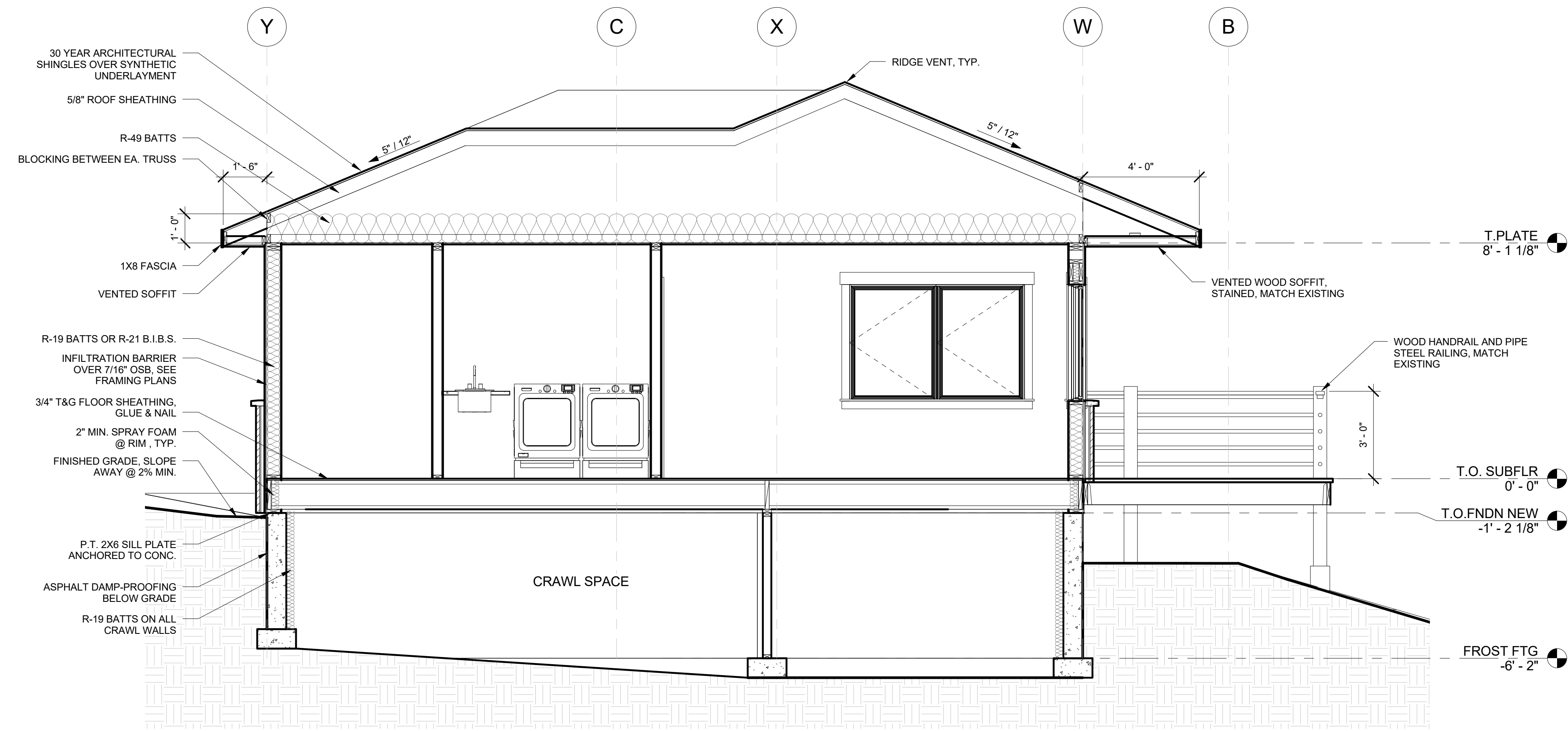
Exterior Elevations

A3.2

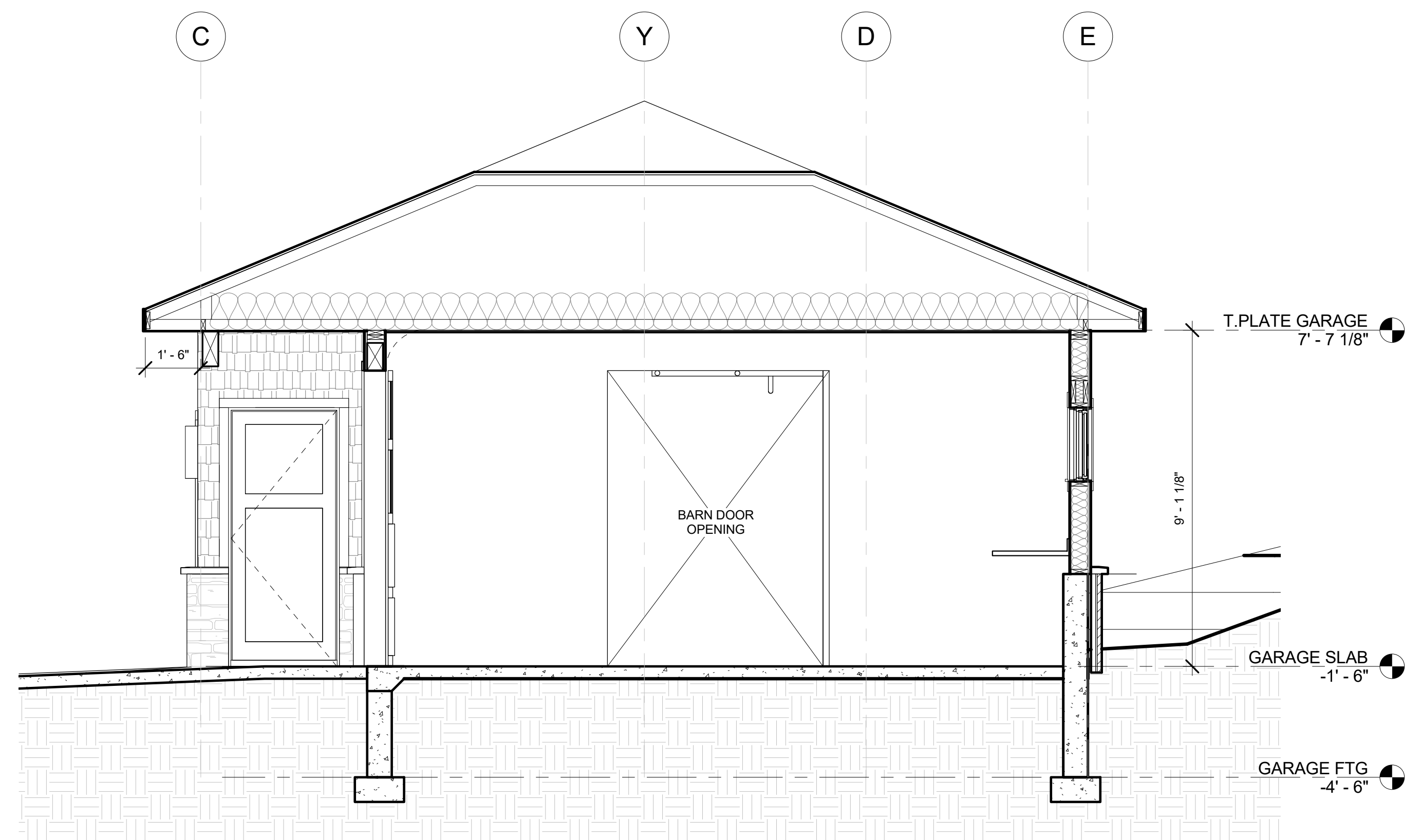
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1 Section 4  
3/8" = 1'-0"



2 Garage Section  
3/8" = 1'-0"

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Building Sections

A4.1



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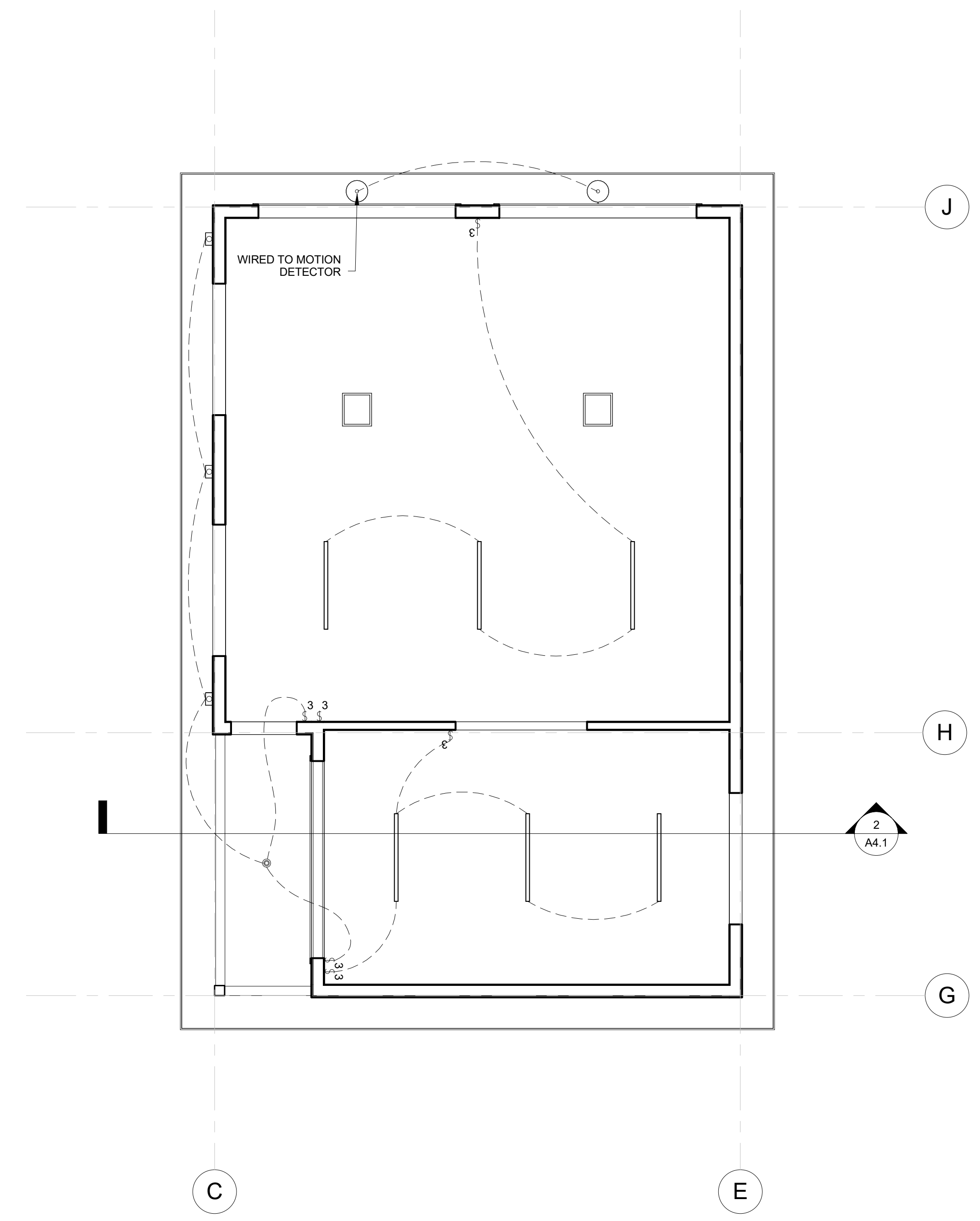
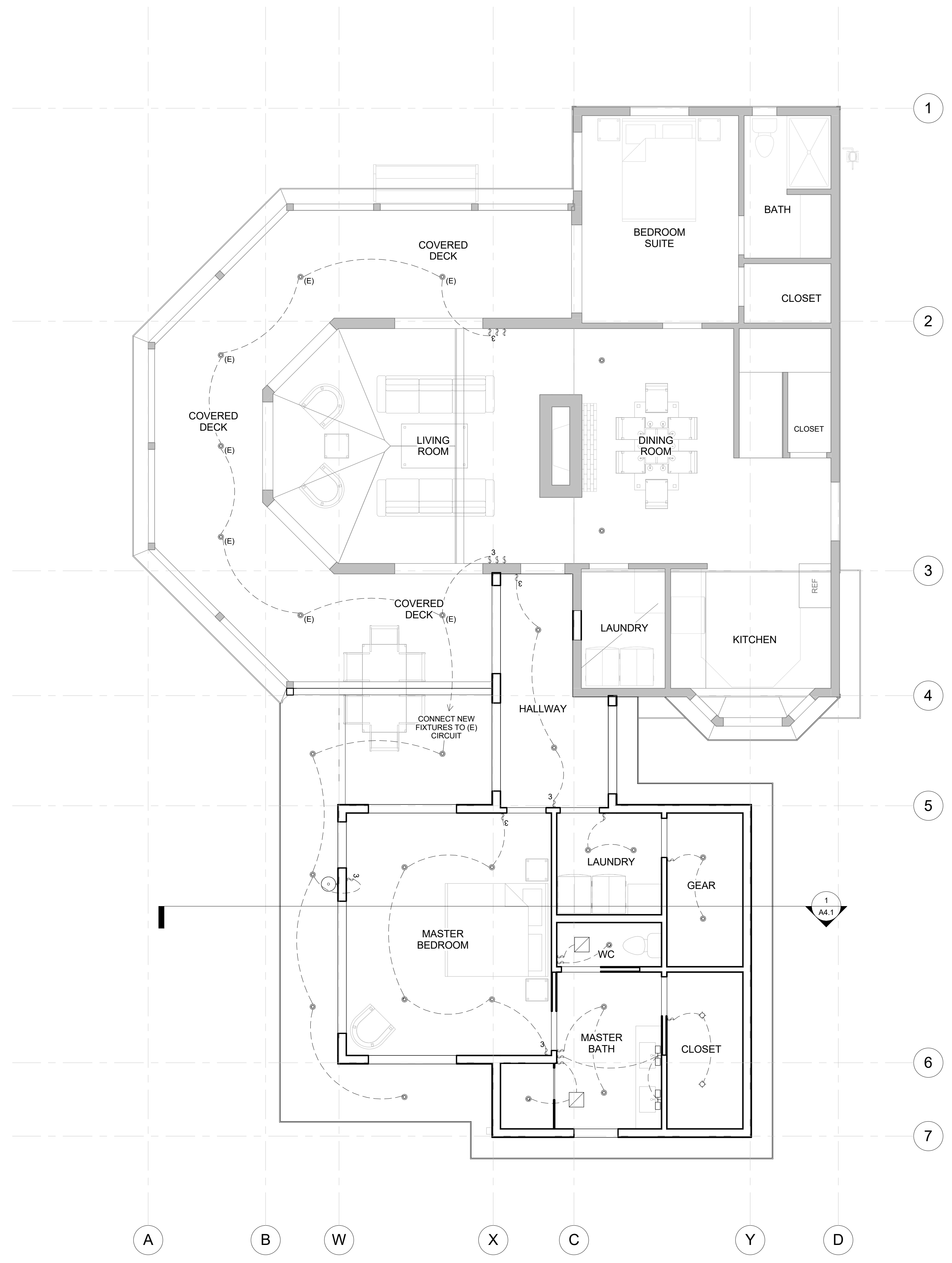
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Main Floor RCP

A6.1

### Electrical Legend

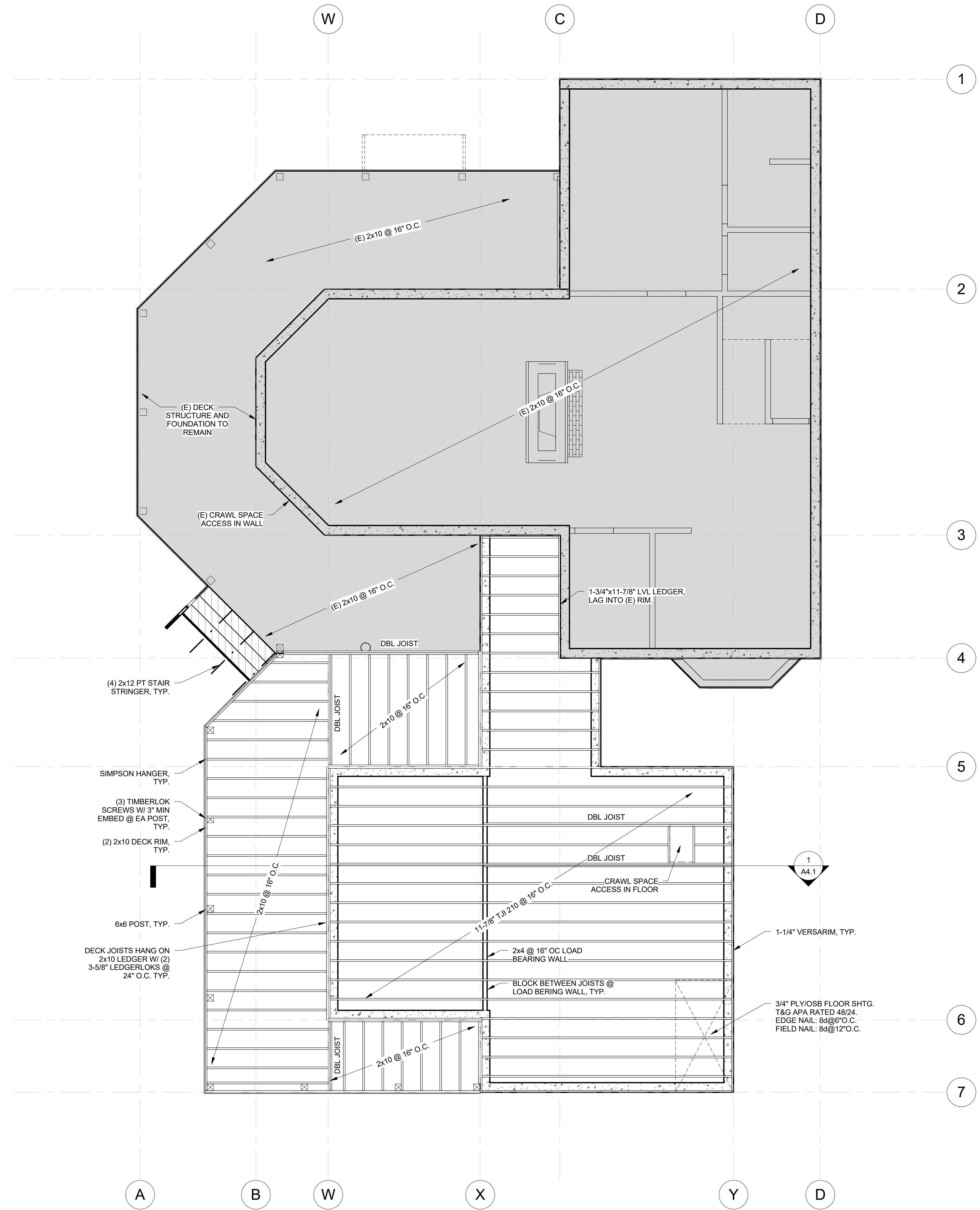
	PENDANT FIXTURE #1		4'-0" LED		WALL SWITCH
	PENDANT FIXTURE #2		TRACK LIGHTING		3-WAY SWITCH
	WALL SCONCE		STRIP LIGHT		4-WAY SWITCH
	VALENCE		CEILING FAN		DIMMER SWITCH
	CEILING MOUNT FIXTURE		EXHAUST FAN		GARBAGE DISPOSAL SWITCH
	4" LED PUCK		GARAGE DOOR OPENER		DUPLEX OUTLET
	4" RECESSED CAN		GFCI OUTLET		FLOOR OUTLET
	4" RECESSED DIRECTIONAL CAN				







- FLOOR FRAMING NOTES**
- WOOD GRADE REQ'TS
    - 2X LUMBER: NO. 2 OR BETTER W/ 19% MAX MOISTURE
    - GLULAM: DF-L 24F-V4 (SINGLE SPAN) / DF-L 24F-V8 (CONT. SPAN/ CANTILEVER)
  - PROVIDE MEMBER FASTENING PER IBC TABLE 2304.9.1 UNLESS NOTED OTHERWISE
  - PROVIDE 1 TRIMMER STUD & 1 KING STUD @ ALL OPENINGS LESS THAN OR EQUAL TO 6' - 0". PROVIDE 2 TRIMMERS AND 2 KING STUDS @ ALL OPENINGS GREATER THAN 6' - 0" AND LESS THAN 10' - 0", U.N.O.
  - PROVIDE BLKG BTWN JOISTS @ LOAD BEARING WALL LOCATIONS



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

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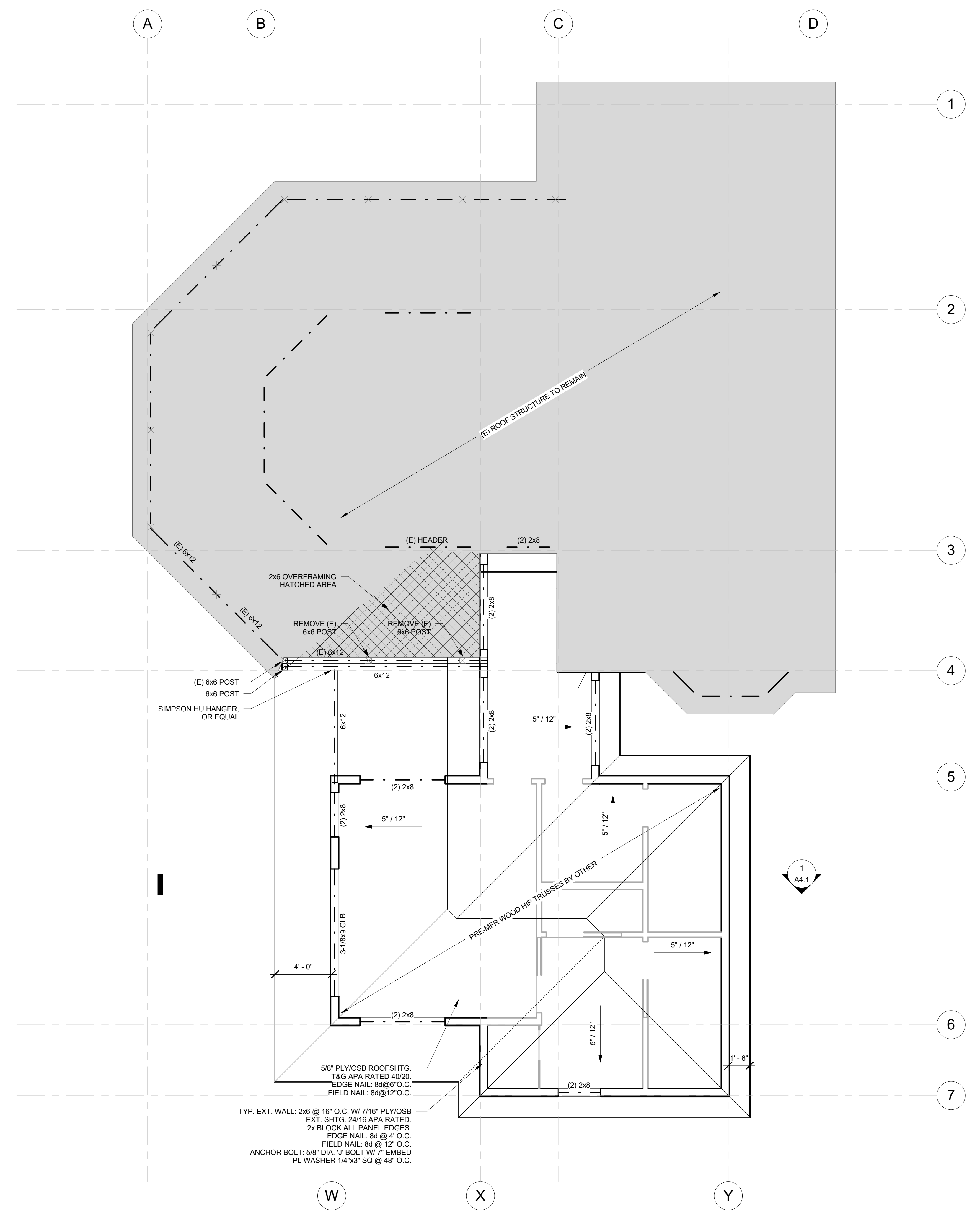
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**Floor Framing Plan**

**S2.2**



- ROOF FRAMING NOTES**
- WOOD GRADE REQ'TS
    - 2X LUMBER: NO. 2 OR BETTER W/ 19% MAX MOISTURE
    - GLULAM: DF-L 24F-V4 (SINGLE SPAN)  
DF-L 24F-V8 (CONT. SPAN/ CANTILEVER)
  - PROVIDE MEMBER FASTENING PER IBC TABLE 2304.9.1 UNLESS NOTED OTHERWISE.
  - PROVIDE 1 TRIMMER STUD & 1 KING STUD @ ALL OPENINGS LESS THAN OR EQUAL TO 6'-0".
  - PROVIDE 2 TRIMMERS AND 2 KING STUDS @ ALL OPENINGS GREATER THAN 6'-0" AND LESS THAN 10'-0", U.N.O.
  - PROVIDE BLKG BTWN JOISTS @ BEARING WALL LOCATIONS
  - TYPICAL ROOF STRUCTURE SHALL CONSIST OF 5/8" WOOD SHEATHING BEARING ON PREMANUFACTURED WOOD ROOF TRUSSES
  - SEE ARCH DRAWINGS FOR SLOPES AND DIMENSIONAL INFORMATION NOT INDICATED ON PLAN



TYP. EXT. WALL: 2x6 @ 16" O.C. W/ 7/16" PLY/OSB  
EXT. SHTG. 24/16 APA RATED,  
2x BLOCK ALL PANEL EDGES,  
EDGE NAIL: 8d @ 4" O.C.  
FIELD NAIL: 8d @ 12" O.C.  
ANCHOR BOLT: 5/8" DIA. J BOLT W/ 7" EMBED  
PL WASHER 1/4"x3" SQ @ 48" O.C.

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

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Roof Framing Plan

S2.3





GENERAL STRUCTURAL NOTES	
<p><b>PROJECT DESCRIPTION</b></p> <p>THE ROOF STRUCTURE SHALL BE WOOD PREMANUFACTURED TRUSSES ENGINEERED BY THE TRUSS SUPPLIER. WALLS SHALL BE 2X STUD WALL CONSTRUCTION. FLOOR FRAMING SHALL CONSIST OF WOOD STRUCTURAL SHEATHING ON WOOD JOISTS. THE FOUNDATION IS TO CONSIST OF CONVENTIONAL SPREAD FOOTINGS.</p> <p>THE ATTACHED DRAWINGS HAVE BEEN REVIEWED AND NOTED FOR STRUCTURAL DESIGN CONSIDERATIONS AND ARE RELEASED FOR CONSTRUCTION IN ACCORDANCE WITH THE NOTES BELOW AND ON THE ATTACHED PLANS.</p> <p><b>GENERAL APPLICATION</b></p> <ol style="list-style-type: none"> <li>THESE DRAWINGS MUST BE USED IN CONJUNCTION WITH ANY OTHER CONSTRUCTION DOCUMENTS ON THE PROJECT TO CLEARLY DEFINE ALL REQUIREMENTS FOR CONSTRUCTION.</li> <li>ALL THINGS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS OR AMBIGUITIES IN THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. CORRECTIONS OR INTERPRETATIONS SHALL BE ISSUED BEFORE AFFECTED WORK MAY PROCEED. THE CONTRACTOR SHALL INFORM THE ARCHITECT AND SUBMIT FOR REVIEW ANY PROPOSED DEVIATIONS OR SUBSTITUTIONS FROM THE CONTRACT DOCUMENTS.</li> </ol> <p><b>CODES AND STANDARDS</b></p> <ol style="list-style-type: none"> <li>BUILDING CODE: 2012 IBC</li> <li>ASCE 7-10</li> <li>NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS)</li> <li>BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI318)</li> </ol> <p><b>DESIGN CRITERIA</b></p> <ol style="list-style-type: none"> <li>OCCUPANCY CATEGORY: II</li> <li>BASIC WIND SPEED: 115MPH, 3 SEC GUST</li> <li>WIND IMPORTANCE FACTOR: 1.0</li> <li>EXPOSURE CATEGORY: B (N/S/W), D (E/AST)</li> <li>P(S30): A=23.6 PSF, B=16.1 PSF, C=18.8 PSF, D=12.9 PSF</li> <li>WIND BASE SHEAR: NORTH/SOUTH = 22.9K, EAST/WEST = 34.8K</li> <li>WIND DESIGN PRESSURE FOR COMPONENTS AND CLADDING = 31.9 PSF (105F), 29.7 PSF (205F), 28.5 PSF (505F), 24.7 PSF (1005F)</li> <li>WIND DESIGN PRESSURE FOR UPLIFT = 15 PSF (NET UPLIFT PRESSURE) WIND DESIGN PRESSURE FOR OVERHANG UPLIFT = 30.3 PSF (NET PRESSURE)</li> <li>SEISMIC IMPORTANCE FACTOR: 1.0</li> <li>MAPPED SPECTRAL RESPONSE ACCELERATION: <math>S_s = 0.987</math> <math>S_1 = 0.277</math></li> <li>SEISMIC SITE CLASS: D</li> <li>SPECTRAL RESPONSE COEFFICIENTS: <math>S_{ds} = 0.445</math> <math>S_{d1} = 0.212</math></li> <li>SEISMIC DESIGN CATEGORY: D</li> <li>BASIC SEISMIC FORCE RESISTING SYSTEM: WOOD FRAMED SHEAR WALLS &amp; ORDINARY STEEL MOMENT FRAME</li> <li>RESPONSE MODIFICATION FACTOR: <math>R = 6.5</math> (WD, SW), <math>R = 3.5</math> (OSMF)</li> <li>SEISMIC RESPONSE COEFFICIENT: <math>C_s = 0.1119</math> (WD, SW) <math>C_s = 0.2078</math> (OSMF)</li> <li>ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE</li> <li>SEISMIC BASE SHEAR: 50.3K</li> <li>GROUND SNOW LOADS: <math>P_g = 64</math> PSF</li> <li>MINIMUM FLAT ROOF SNOW LOAD: <math>P_f = 50</math> PSF</li> <li>DRIFTED SNOW LOAD ONTO LOWER ROOF: 82 PSF, <math>W = 15</math> FT.</li> <li>SNOW LOAD IMPORTANCE FACTOR: 1.0</li> <li>TERRAIN CATEGORY: B (N/S/W), D (E/AST)</li> <li>EXPOSURE FACTOR: 1.0</li> <li>THERMAL FACTOR: <math>C_t = 1.0</math></li> <li>SLOPE FACTOR: <math>C_s = 1.0</math></li> <li>ALL SNOW LOADS ON THE STRUCTURE FOR BOTH FLAT AND SLOPED ROOF SHALL BE CALCULATED IN ACCORDANCE WITH THE 2012 IBC AND SHALL CONSIDER PARTIAL LOADING, UNBALANCED LOADING, DRIFTING, AND SLIDING SNOW</li> <li>ROOF LIVE LOAD: <math>L_r = 20</math> PSF</li> <li>FLOOR LIVE LOAD: <math>L = 100</math> PSF</li> <li>ROOF DEAD LOAD = 15PSF (INCLUDING SELF WEIGHT)</li> <li>FLOOR DEAD LOAD = 30PSF (INTERIOR W/ GYPCRETE, INCLUDING SELF WEIGHT)</li> </ol> <p><b>FOUNDATIONS</b></p> <ol style="list-style-type: none"> <li>THE FOUNDATION DESIGN UTILIZES THE PRESUMPTIVE ALLOWABLE BEARING PRESSURE OF 1,500 PSF TAKEN FROM TABLE 1806.2 DURING EXCAVATION AND PRIOR TO FOUNDATION CONSTRUCTION, DELANEY'S ENGINEERED SOLUTIONS SHALL BE NOTIFIED TO OBSERVE THE SOIL TYPE TO SUPPORT THIS ASSUMPTION.</li> <li>THE BOTTOM OF FOOTINGS SHALL BEAR A MINIMUM OF 3'-0" BELOW FINAL EXTERIOR GRADE FOR FROST PROTECTION OR BE FROST PROTECTED WITH AN APPROVED INSULATION METHOD</li> <li>FOUNDATION DESIGN DOES NOT CONSIDER FORCES DUE TO HYDROSTATIC PRESSURES.</li> <li>BEAR ALL FOOTINGS DIRECTLY ON NATIVE SOIL. DO NOT OVER EXCAVATE OR PLACE FOOTINGS ON FILL UNLESS FILL IS COMPACTED TO MINIMUM 95% PROCTOR DENSITY. PROVIDE POSITIVE DRAINAGE OR APPROVED WATER MITIGATION PATH AWAY FROM ALL EXTERIOR WALLS.</li> <li>SEE FOUNDATION PLAN FOR MORE INFORMATION.</li> </ol>	<p><b>CAST-IN-PLACE CONCRETE</b></p> <ol style="list-style-type: none"> <li>MINIMUM CONCRETE COMPRESSIVE STRENGTH = 3000 PSI</li> <li>CONCRETE WEIGHT = 145 PCF +/- 5 PCF</li> <li>CONCRETE TYPE: TYPE I OR II, ASTM C150</li> <li>AGGREGATES: 3/4" CONFORMING TO ACI 301 AND ASTM C33</li> <li>MAX W/C RATIO: 0.50</li> <li>MAX FLY ASH CONTENT: 25%, ASTM C618, CLASS C OR F</li> <li>SLUMP: 4" +/- 1"</li> <li>CONCRETE EXPOSED TO FREEZING AND THAWING CONDITIONS SHALL CONSIST OF AN AIR ENTRAINMENT MIX IN ACCORDANCE WITH ACI 301</li> <li>REINFORCING BARS SHALL CONFORM TO ASTM A615 - GRADE 60</li> <li>REQUIRED COVER FOR NON-FIRE-RATED ASSEMBLIES: CONCRETE EXPOSED TO EARTH OR WEATHER: 2" CONCRETE CAST DIRECTLY AGAINST THE EARTH: 3" CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH: 3/4"</li> <li>EARTH FORMED TRENCHES MAY BE USED FOR FOOTINGS</li> <li>PROVIDE 3/4" CHAMFERS AT ALL EDGES THAT ARE EXPOSED TO VIEW IN THE FINISHED STRUCTURE</li> <li>CONCRETE PLACED DURING HOT WEATHER SHALL BE FOLLOW RECOMMENDATIONS OF ACI 305</li> <li>CONCRETE PLACE BELOW 40 DEGREES FAHRENHEIT SHALL FOLLOW THE RECOMMENDATIONS OF ACI 306 R-2</li> <li>CONCRETE SHALL BE MAINTAINED AT A TEMPERATURE NOT LESS THAN 55 DEGREES FAHRENHEIT</li> <li>TOLERANCE FOR ANCHOR BOLTS AND OTHER EMBEDDED ITEMS SHALL BE IN ACCORDANCE WITH ACI CODE OF STANDARD PRACTICE</li> <li>EXPANSION BOLTS SHALL BE WEDGE TYPE ZINC-PLATED OR STAINLESS STEEL AND AN ICC APPROVED PRODUCT</li> <li>SUBMIT SHOP DRAWINGS FOR FABRICATION, BENDING AND PLACEMENT OF CONCRETE REINFORCEMENT. COMPLY WITH ACI DETAILING MANUAL (SP 66). ALLOW MINIMUM 10 WORKING DAYS TIME FOR REVIEW</li> </ol> <p><b>WOOD FRAMING</b></p> <ol style="list-style-type: none"> <li>SUBMIT SHOP DRAWINGS AND STAMPED ENGINEER CALCULATIONS FOR REVIEW OF PREMANUFACTURED TRUSSES. ALLOW A MINIMUM OF 10 WORKING DAYS TIME FOR REVIEW</li> <li>DIMENSIONAL LUMBER SHALL BE A MINIMUM OF DOUG-FIR #2 GRADE OR BETTER, UNLESS SPECIFIED OTHERWISE. STUDS IN A WALL MAY BE DOUGLAS FIR-LARCH STUD GRADE OR BETTER.</li> <li>STRUCTURAL PANELS (PLYWOOD OR OSB) SHALL CONFORM TO APA PS-1 STANDARDS. LAY PANEL WITH LONG DIMENSION PERPENDICULAR TO JOISTS/STUDS WITH SHORT EDGES STAGGERED. ALL PANELS SHALL BE EXPOSURE 1.</li> <li>USE 19/32" STRUCTURAL PANELS WITH AN APA SPAN RATING 40/20 FOR ROOF TRUSSES/JOISTS</li> <li>USE 23/32" STRUCTURAL PANELS WITH AN APA SPAN RATING 48/24 FOR FLOOR TRUSSES/JOISTS</li> <li>USE 15/32" STRUCTURAL PANELS WITH AN APA SPAN RATING 32/16 FOR ALL EXTERIOR WALL SHEATHING</li> <li>PREFABRICATED WOOD TRUSSES SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF STATE AND LOCAL BUILDING AND SAFETY CODES AND OTHER FEDERAL (OSHA) SAFETY REQUIREMENTS.</li> <li>THE TRUSS FABRICATOR SHALL BE RESPONSIBLE FOR ALL MEMBER AND CONNECTION DESIGN AND DETAILING</li> <li>ALL SILL PLATES SHALL BE PRESSURE TREATED DOUGLAS FIR-LARCH (DFL) STAMPED TO SHOW COMPLIANCE WITH A/WPA STANDARDS</li> <li>ALL BOLTS, METAL CONNECTORS, HANGERS, ANCHORS AND FASTENERS IN CONTACT WITH PRESERVATIVE TREATED WOOD SHALL BE HOT DIPPED GALVANIZED G90 OR G185 OR STAINLESS STEEL 304 OR 316</li> <li>5/8" DIAMETER ANCHOR BOLTS SHALL BE PROVIDED AT 32" OC MAXIMUM AND WITHIN 12" OF THE END OF ALL WALLS. AT SHEARWALL LOCATIONS, ANCHOR BOLTS SHALL BE SPACED AT 16" OC MAX</li> <li>ANCHOR BOLTS SHALL HAVE A MINIMUM EMBEDMENT OF 7" INTO CONCRETE</li> <li>NAILING SHALL CONFORM WITH THE MINIMUM REQUIREMENTS OF TABLE 2304.9.1 OF THE IBC</li> <li>ALL NAIL SIZES SPECIFIED SHALL BE COMMON NAIL SIZES AS DEFINED IN THE NDS. MACHINE APPLIED NAILS SHALL NOT BE OVERDRIVEN AND MUST MEET COMMON NAIL DIAMETERS SPECIFIED.</li> <li>STEEL PLATES SHALL CONFORM TO ASTM A36</li> <li>STEEL BOLTS SHALL CONFORM TO ASTM A307</li> <li>HOLES FOR BOLTS SHALL BE 1/16" OVERSIZE</li> <li>LAG SCREWS SHALL PENETRATE THE MAIN MEMBER A MINIMUM OF 8 TIMES THE SCREW DIAMETER</li> <li>BUILT UP COLUMNS IN WALLS SHALL BE STITCH NAILED WITH STAGGERED 16D@4" OC AND</li> <li>WHERE BEAMS OR GIRDER TRUSSES BEAR ON COLUMNS, PROVIDE (1) SIMPSON ST18 STRAP W/ (4) 16D NAILS. CENTER STRAP ON JOINT BETWEEN MEMBERS</li> <li>GLUE AND NAIL ALL ROOF AND FLOOR SHEATHING WITH 8D@6" OC AT PANEL EDGES AND 8D@12" OC IN THE FIELD</li> <li>NAIL ALL WALL SHEATHING WITH 8D@6" OC AT PANEL EDGES AND 8D@12" OC IN THE FIELD</li> </ol>

TYPICAL MINIMUM NAILING REQUIREMENTS		
THIS DETAIL CONFORMS TO ALL 2006, 2009, AND 2012 REQUIREMENTS.		
CONNECTION		COMMON NAILS
1. 1"x6" subfloor or less to each joist, face nail		(2) 8d
2. Wider than 1"x6" subfloor to each joist, face nail		(3) 8d
3. 2" subfloor to joist or blocking, blind and face nail		(2) 16d
4. Sole plate to joist or blocking, face nail		16d@16"
5. Top plate to stud, end nail		(2) 16d
6. Stud to sole plate		(4) 8d toenail or (2) 16d end nail
7. Double studs, face nail		16d@24"
8. Double top plates, face nail		16d@16"
9. Top plate laps		(8) 16d
10. Continuous header, two pieces		16d@16" OC along each edge
11. Ceiling joists to plate, toenail		(3) 8d
12. Continuous header to stud, toenail		(4) 8d
13. Ceiling joists, laps over partitions, face nail		(3) 16d
14. Ceiling joists to parallel rafters, face nail		(3) 16d
15. Joist or rafters at all bearings, toenail each side		(3) 8d
16. 1" Diagonal brace to each stud and plate, face nail		(2) 8d
17. 1"x8" sheathing or less to each bearing, face nail		(3) 8d
18. Wider than 1"x8" sheathing to each bearing, face nail		(3) 8d
19. Built-up corner studs		16d@24" OC
20. Built-up girder and beams	Dimensional Lumber: 20d@32" OC at top and bottom and staggered (2) 10d at ends and at each splice Manufactured Lumber: As required by manufacturer but not less than nailing for Dimensional Lumber	
21. 2" planks		(2) 16d at each bearing
22. Bridging to joist, toenail each end a. Blocking between joists and rafters - To joists or rafters - Toenails each side, each end b. Blocking between studs, each end		(2) 10d (2) 10d toenails or (2) 16d
23. Plywood Sheathing		At shear walls - Re: typical details. Other walls - Re: general notes.

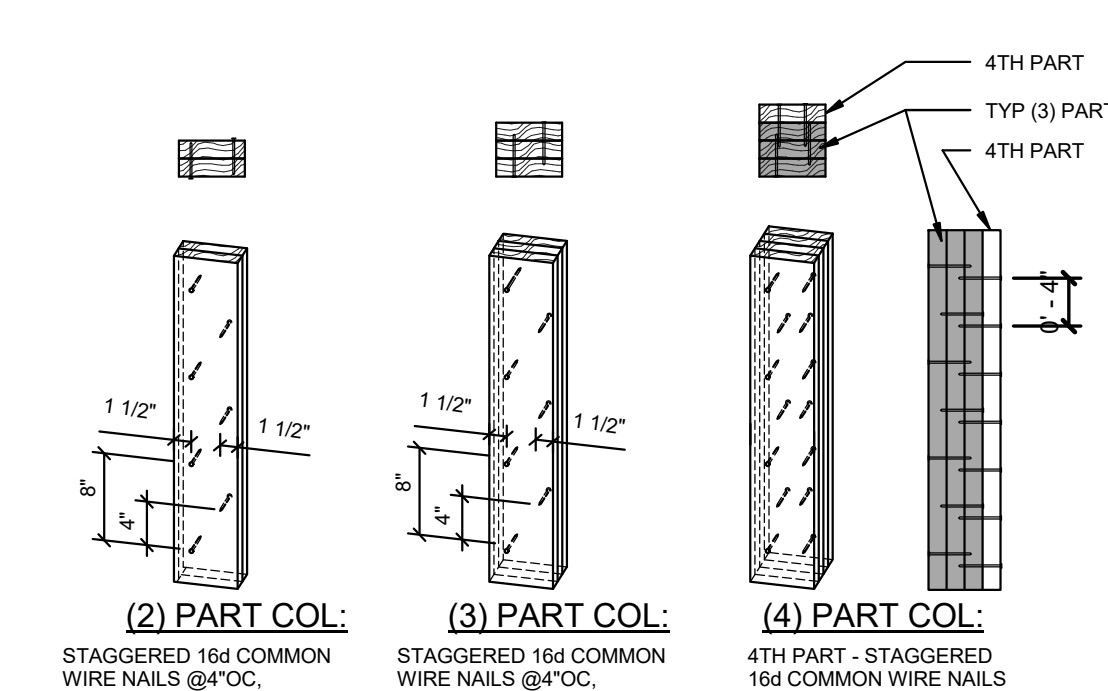
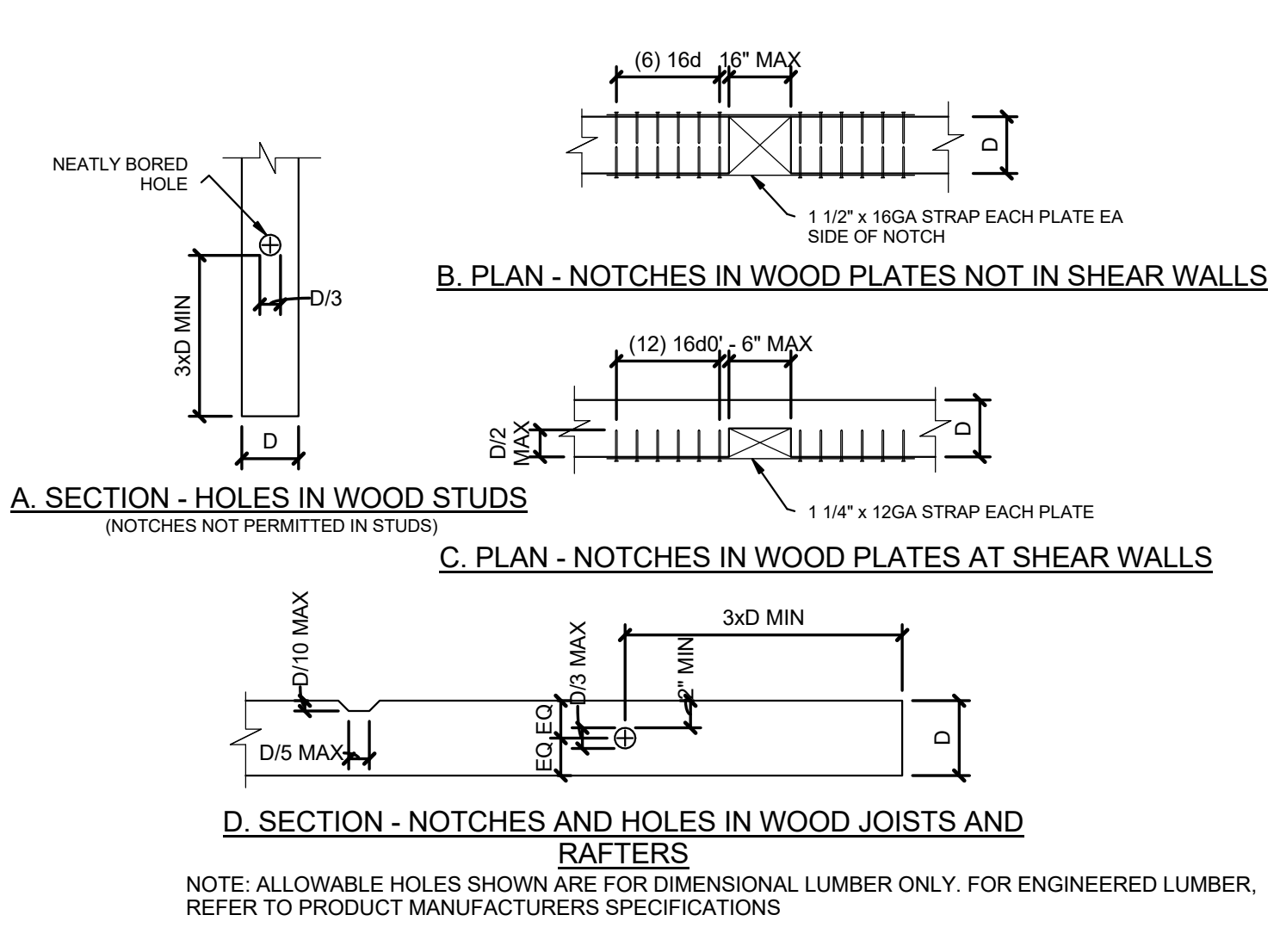
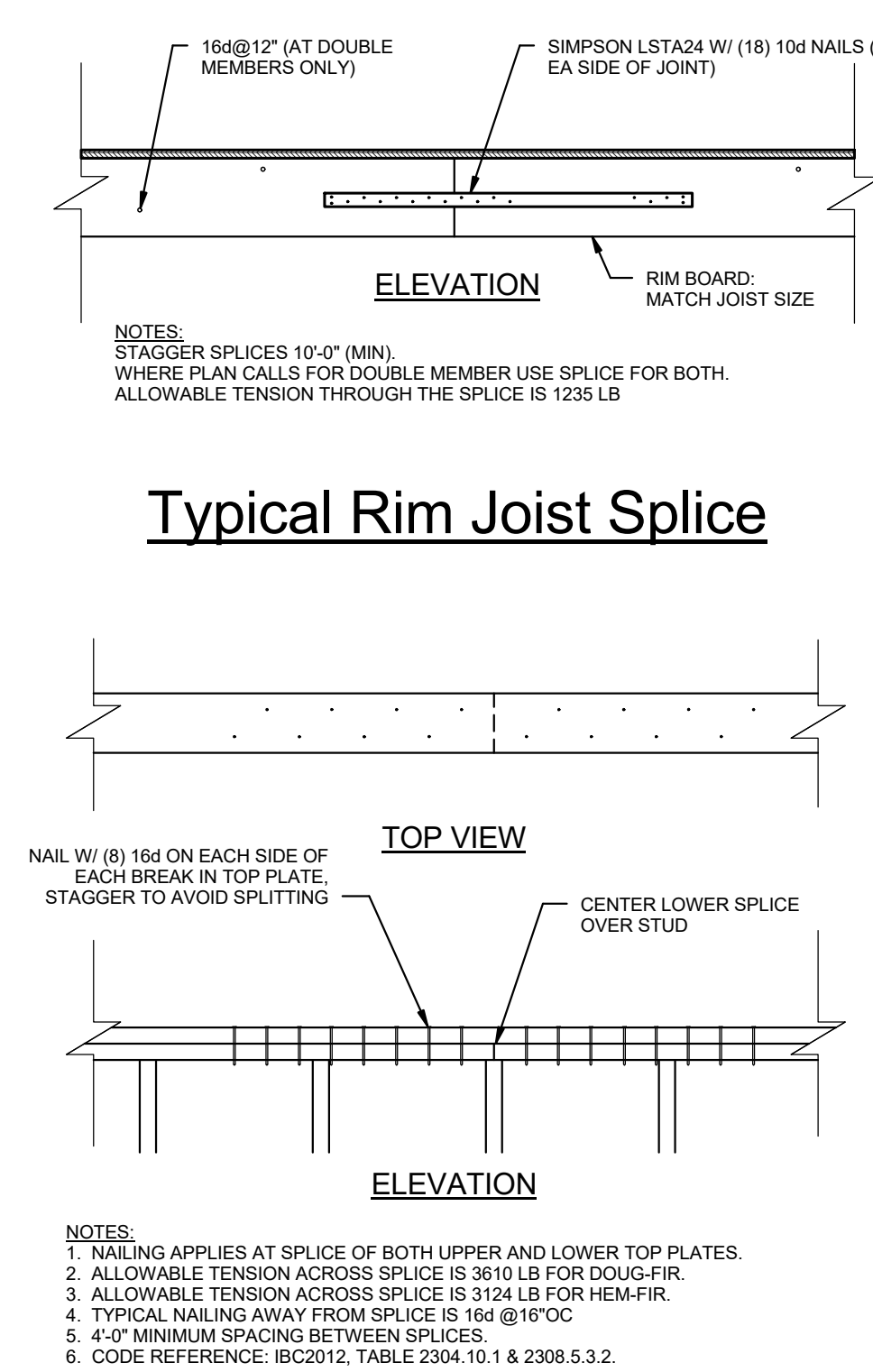
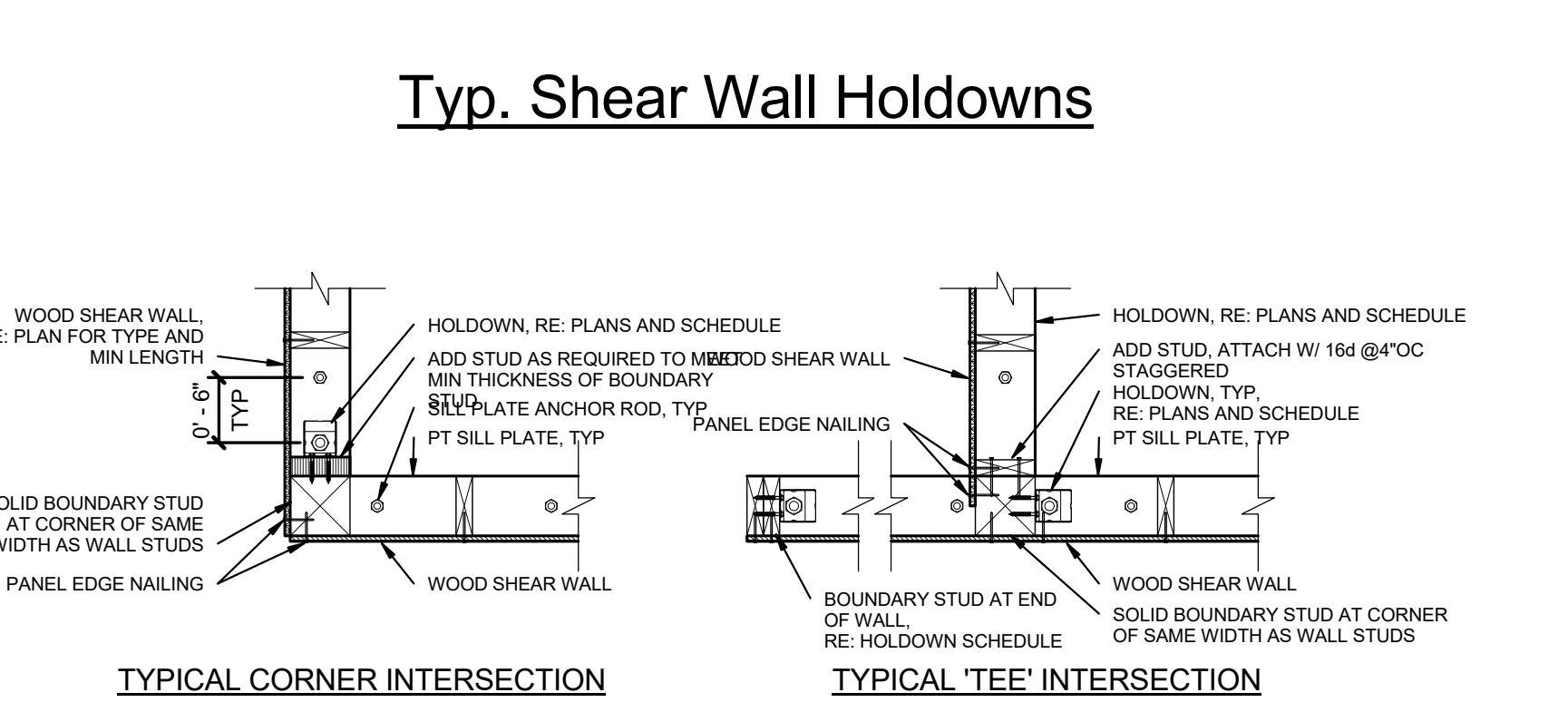
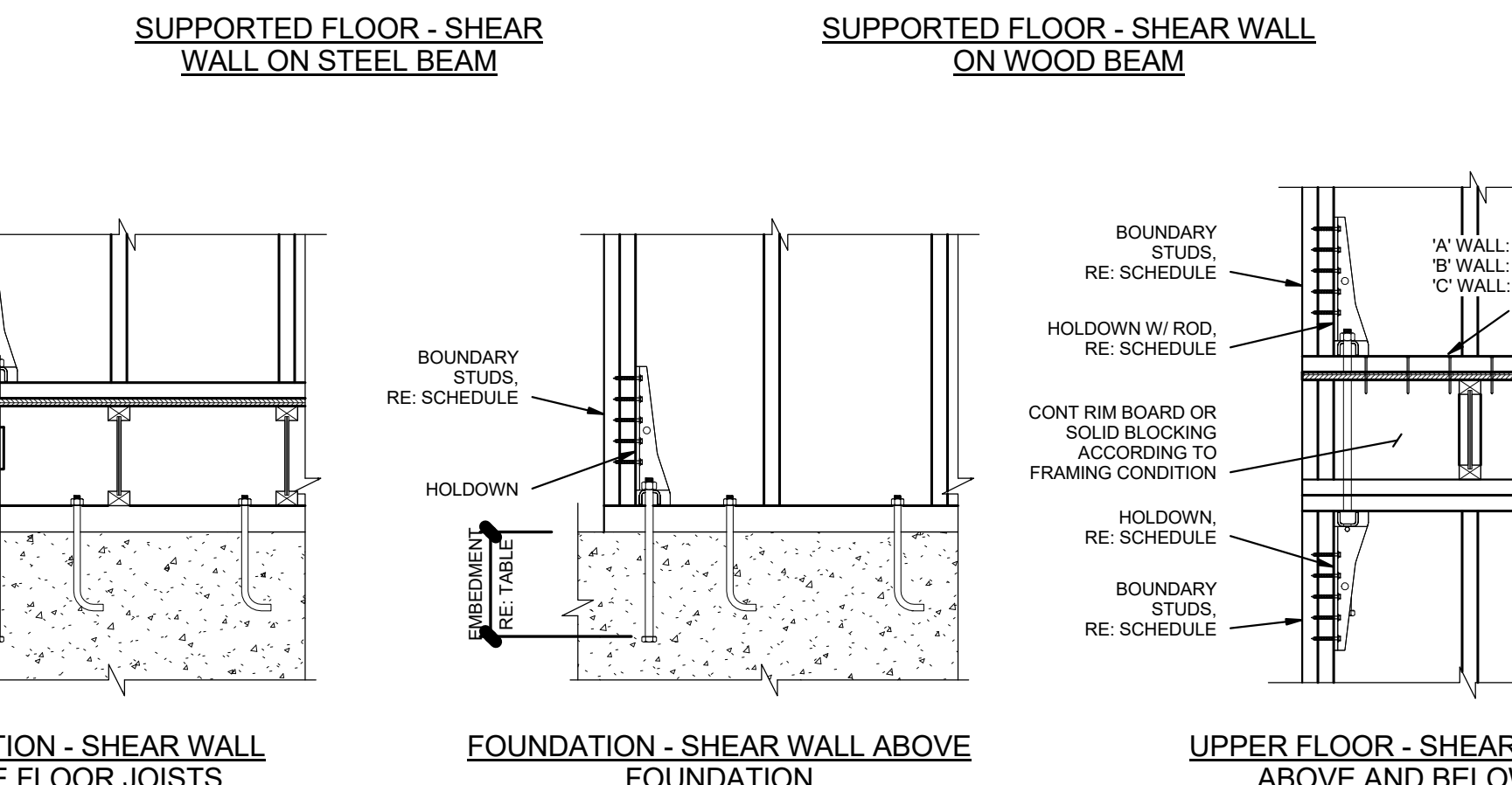
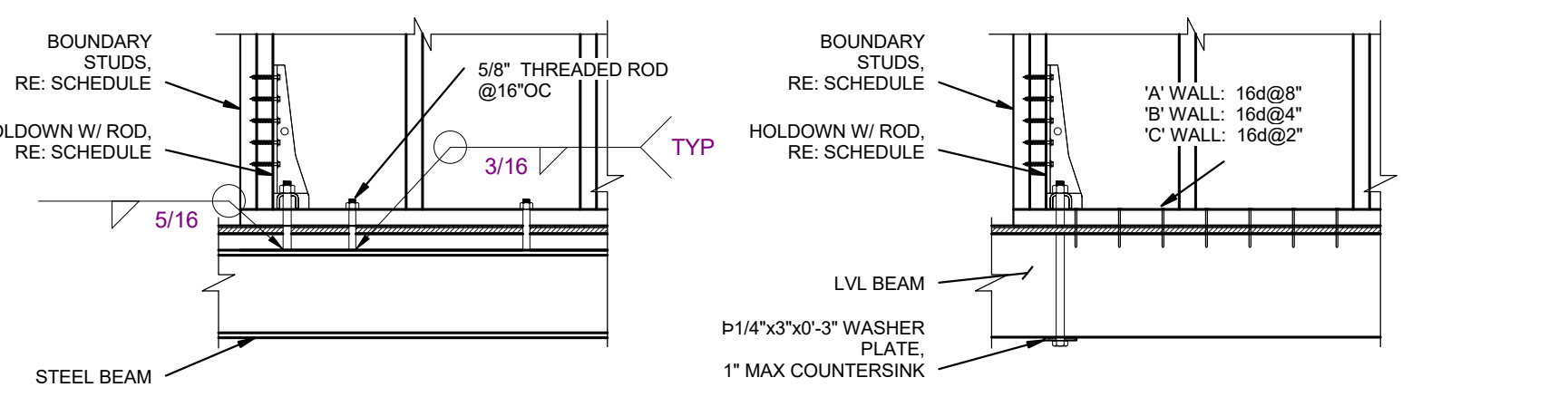
HEADERS IN LOAD BEARING WALLS				
SPAN	DIMENSIONED LUMBER	LSL ALTERNATES	LVL ALTERNATES	NO. OF BEARING STUDS AT EACH END
	DOUGLAS FIR			
3'-0"	(2) 2x8 or (3) 2x6	(2) 1 3/4"x5 1/2" or (3) 1 3/4"x5 1/2"	(2) 1 3/4"x5 1/2" or (3) 1 3/4"x5 1/2"	1
4'-0"	(2) 2x12 or (3) 2x8	(2) 1 3/4"x5 1/2" or (3) 1 3/4"x5 1/2"	(2) 1 3/4"x5 1/2" or (3) 1 3/4"x5 1/2"	1
5'-0"	N/A (3) 2x10	(2) 1 3/4"x7 1/4" or (3) 1 3/4"x7 1/4"	(2) 1 3/4"x7 1/4" or (3) 1 3/4"x5 1/2"	2
6'-0"	N/A (3) 2x12	(2) 1 3/4"x9 1/4" or (3) 1 3/4"x7 1/4"	(2) 1 3/4"x9 1/4" or (3) 1 3/4"x7 1/4"	2
7'-0"	N/A N/A	(2) 1 3/4"x9 1/2" or (3) 1 3/4"x9 1/4"	(2) 1 3/4"x9 1/4" or (3) 1 3/4"x9 1/4"	2
8'-0"	N/A N/A	(2) 1 3/4"x11 1/4" or (3) 1 3/4"x9 1/4"	(2) 1 3/4"x11 1/4" or (3) 1 3/4"x9 1/4"	2
9'-0"	N/A N/A	(2) 1 3/4"x14" or (3) 1 3/4"x11 1/4"	(2) 1 3/4"x11 1/4" or (3) 1 3/4"x11 1/4"	3
10'-0"	N/A N/A	(2) 1 3/4"x14" or (3) 1 3/4"x11 7/8"	(2) 1 3/4"x14" or (3) 1 3/4"x11 1/4"	3

RECOMMENDED HEADERS IN NON-LOAD BEARING WALLS				
SPAN	DIMENSIONED LUMBER	LSL ALTERNATES	LVL ALTERNATES	NO. OF BEARING STUDS AT EACH END
	DOUGLAS FIR			
3'-0"	(2) 2x4 or (3) 2x4	(2) 1 3/4"x5 1/2" or (3) 1 3/4"x5 1/2"	(2) 1 3/4"x5 1/2" or (3) 1 3/4"x5 1/2"	1
4'-0"	(2) 2x6 or (3) 2x4	(2) 1 3/4"x5 1/2" or (3) 1 3/4"x5 1/2"	(2) 1 3/4"x5 1/2" or (3) 1 3/4"x5 1/2"	1
5'-0"	(2) 2x6 or (3) 2x6	(2) 1 3/4"x5 1/2" or (3) 1 3/4"x5 1/2"	(2) 1 3/4"x5 1/2" or (3) 1 3/4"x5 1/2"	1
6'-0"	(2) 2x8 or (3) 2x6	(2) 1 3/4"x5 1/2" or (3) 1 3/4"x5 1/2"	(2) 1 3/4"x5 1/2" or (3) 1 3/4"x5 1/2"	1
7'-0"	(2) 2x8 or (3) 2x8	(2) 1 3/4"x7 1/4" or (3) 1 3/4"x5 1/2"	(2) 1 3/4"x7 1/4" or (3) 1 3/4"x5 1/2"	1
8'-0"	(2) 2x10 or (3) 2x8	(2) 1 3/4"x7 1/4" or (3) 1 3/4"x7 1/4"	(2) 1 3/4"x7 1/4" or (3) 1 3/4"x7 1/4"	1
9'-0"	(2) 2x12 or (3) 2x10	(2) 1 3/4"x9 1/4" or (3) 1 3/4"x7 1/4"	(2) 1 3/4"x7 1/4" or (3) 1 3/4"x7 1/4"	1
10'-0"	N/A (3) 2x10	(2) 1 3/4"x9 1/4" or (3) 1 3/4"x9 1/4"	(2) 1 3/4"x9 1/4" or (3) 1 3/4"x7 1/4"	1

**NOTES:**

- THIS SCHEDULE APPLIES TO HEADERS WHICH ARE NOT EXPLICITLY CALLED OUT ON PLAN WITH SPANS OF 10'-0" OR LESS
- HEADERS IN LOAD BEARING WALLS DESIGNED FOR 1500 PLF DEAD + LIVE LOAD.
- HEADERS IN NON-LOAD BEARING WALLS DESIGNED FOR 400 PLF DEAD + LIVE LOAD.
- DIMENSIONED LUMBER HEADERS TO BE NO. 2 DOUGLAS FIR.
- LVL = LAMINATED VENEER LUMBER
- LVL HEADERS Fb = 2600 PSI
- LVL = LAMINATED STRAND LUMBER
- LVL HEADERS E = 2250 PSI, E = 1500 KSI
- DEFLECTION CRITERIA IS L/360
- HEADERS SUPPORTING POINT LOADS FROM BEAMS OR COLUMNS SHOULD NOT BE SIZED FROM THIS TABLE. NOTIFY STRUCTURAL ENGINEER.





PRELIMINARY



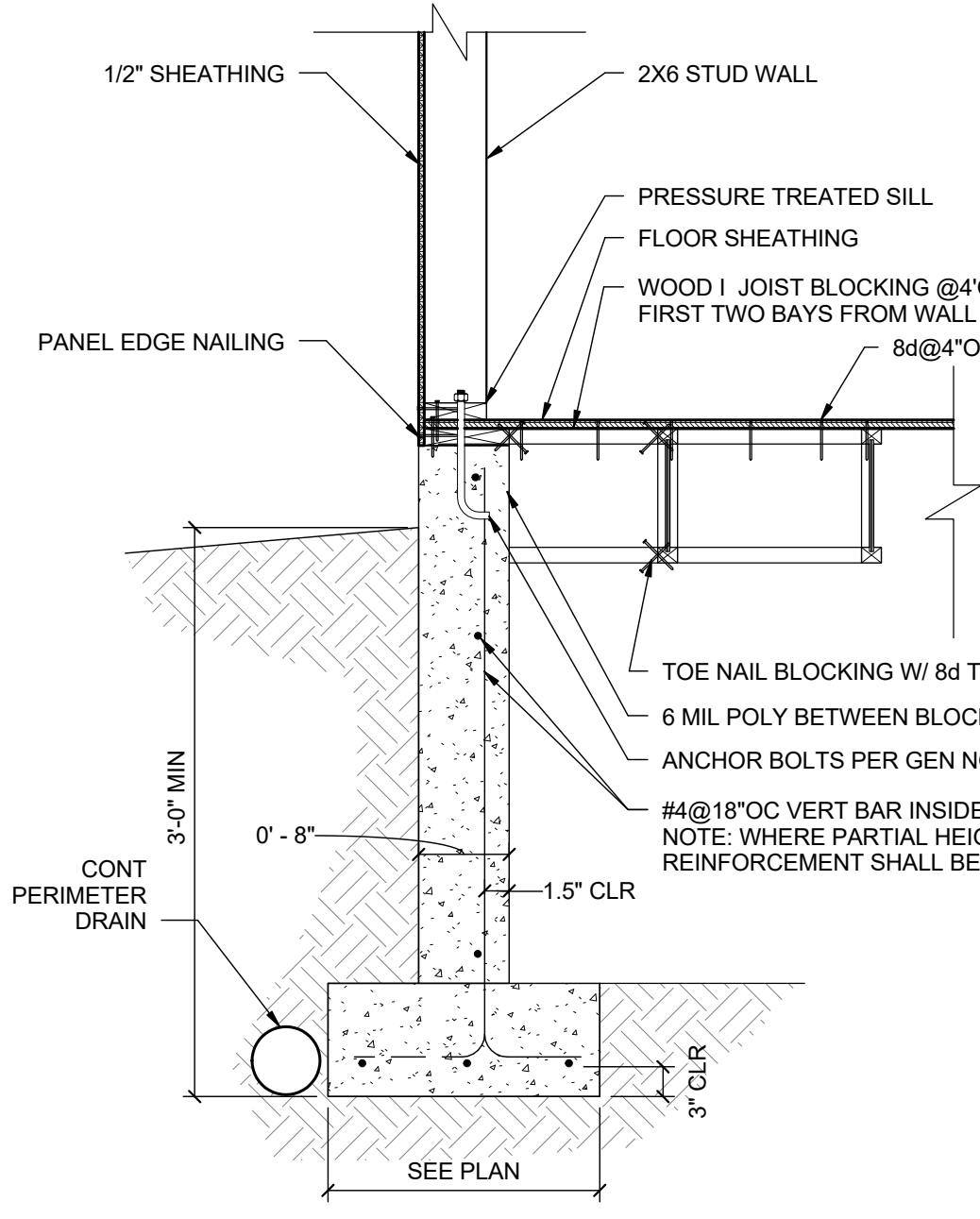
235 N. 1ST ST. W. SUITE B  
Missoula, MT 59802  
Phone: (406)207-9206  
ncdesignstudio.com

**Finley Point Remodel**  
3251 1 Tarrs Lane  
Polson, MT 59860

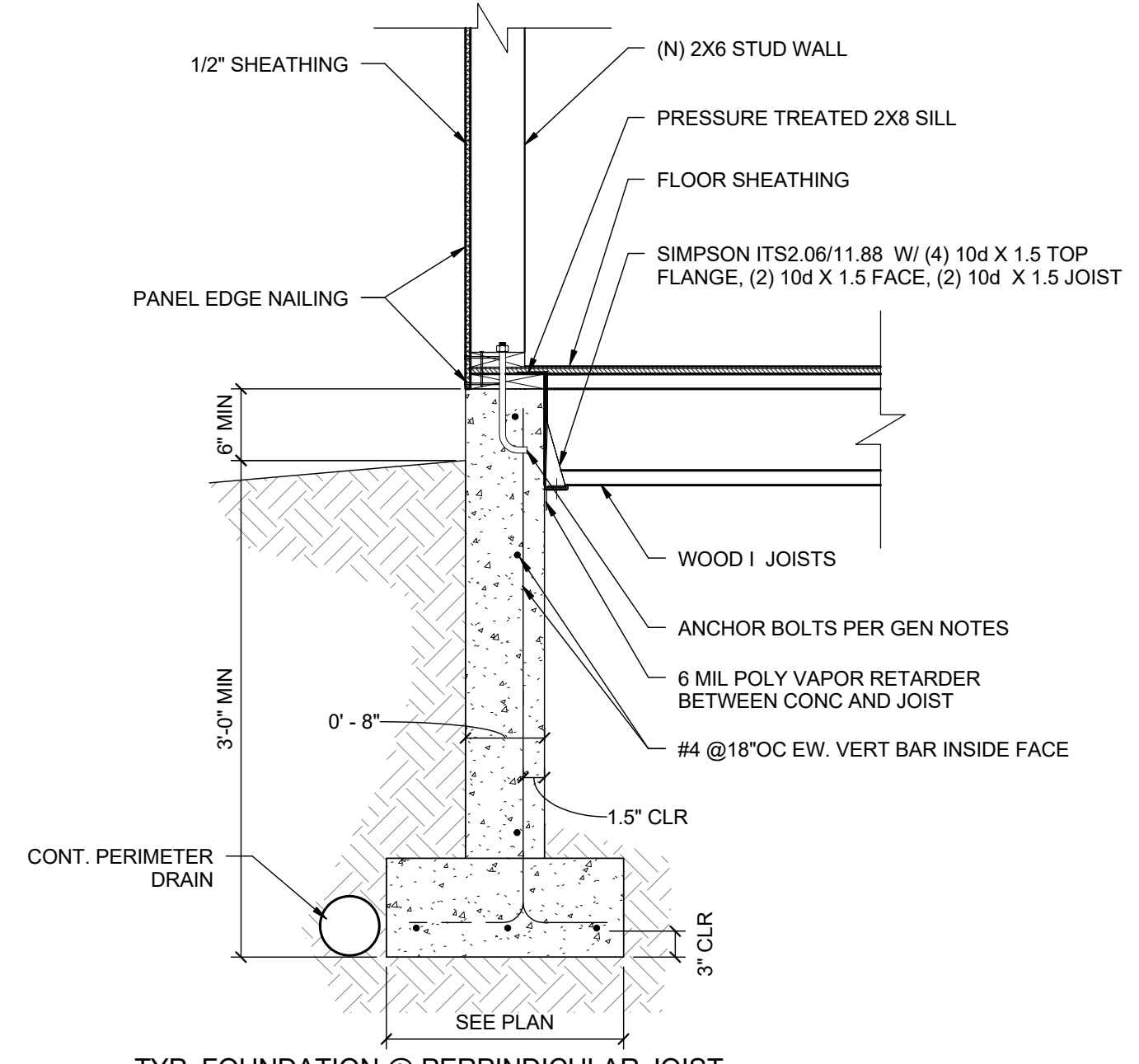
Revision Number	Revision Date
JOB #	19,081
DATE:	1 / 14 / 2020

Structural Details

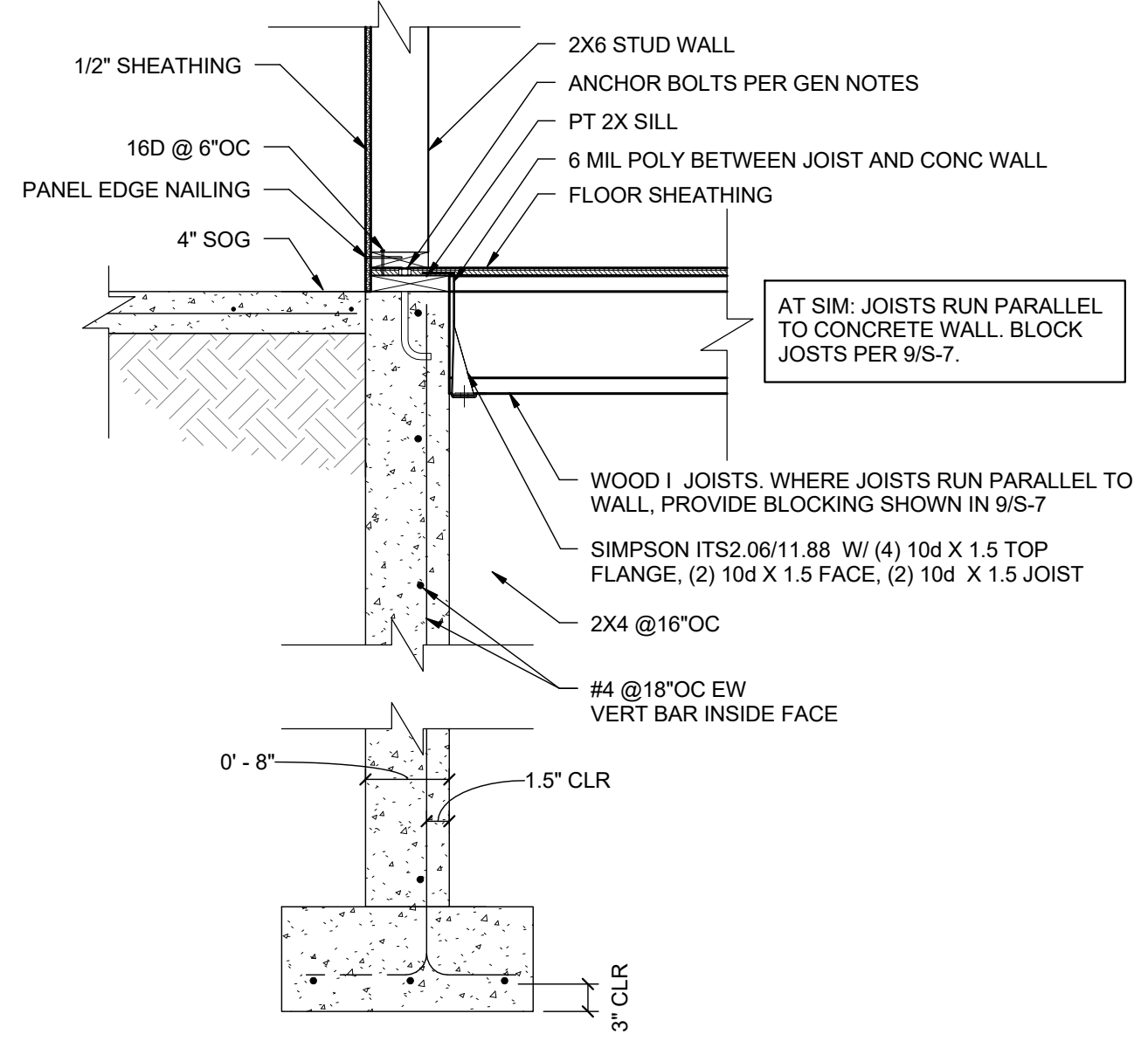
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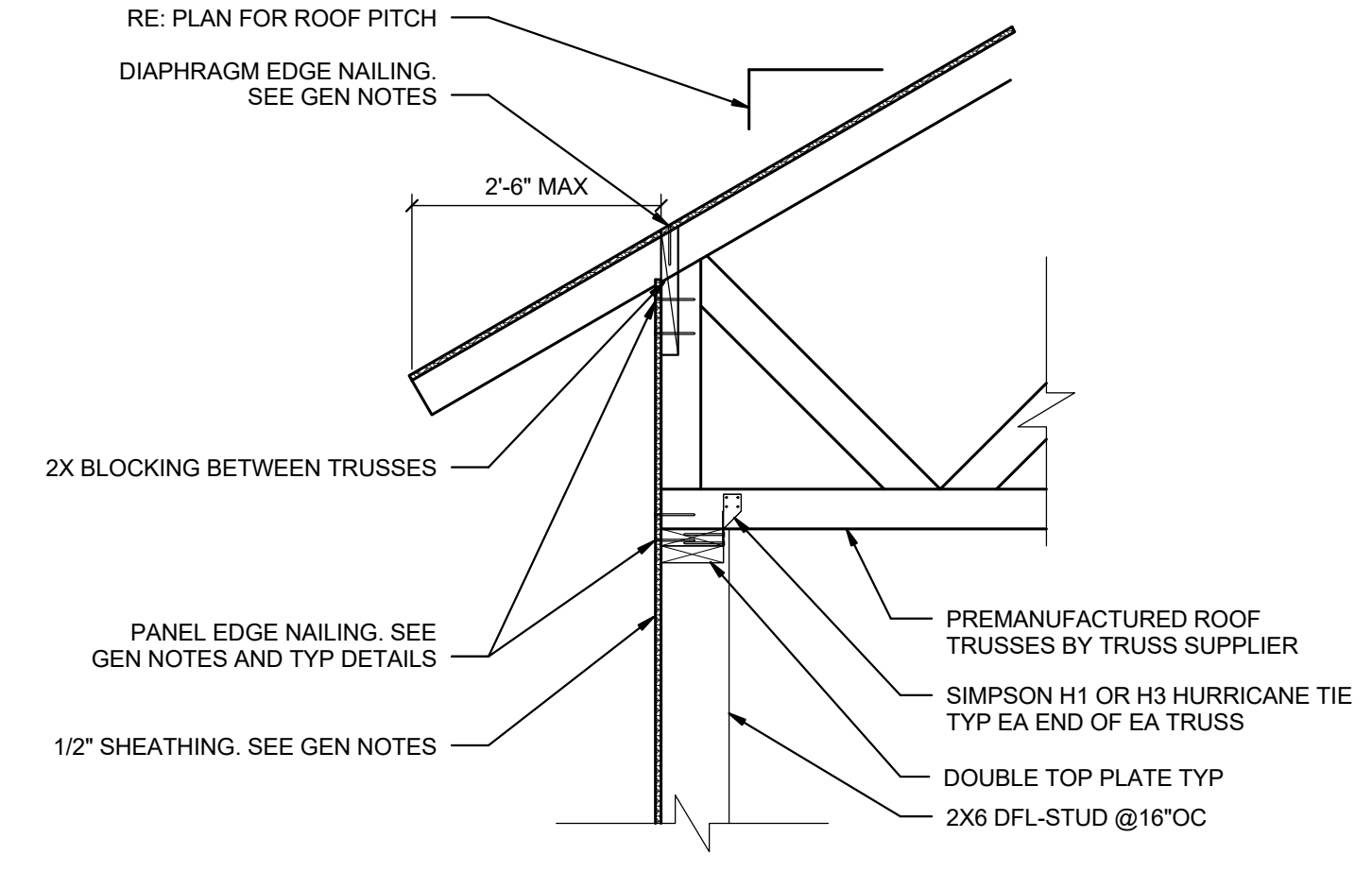
TYP. FOUNDATION @ PARALLEL JOIST



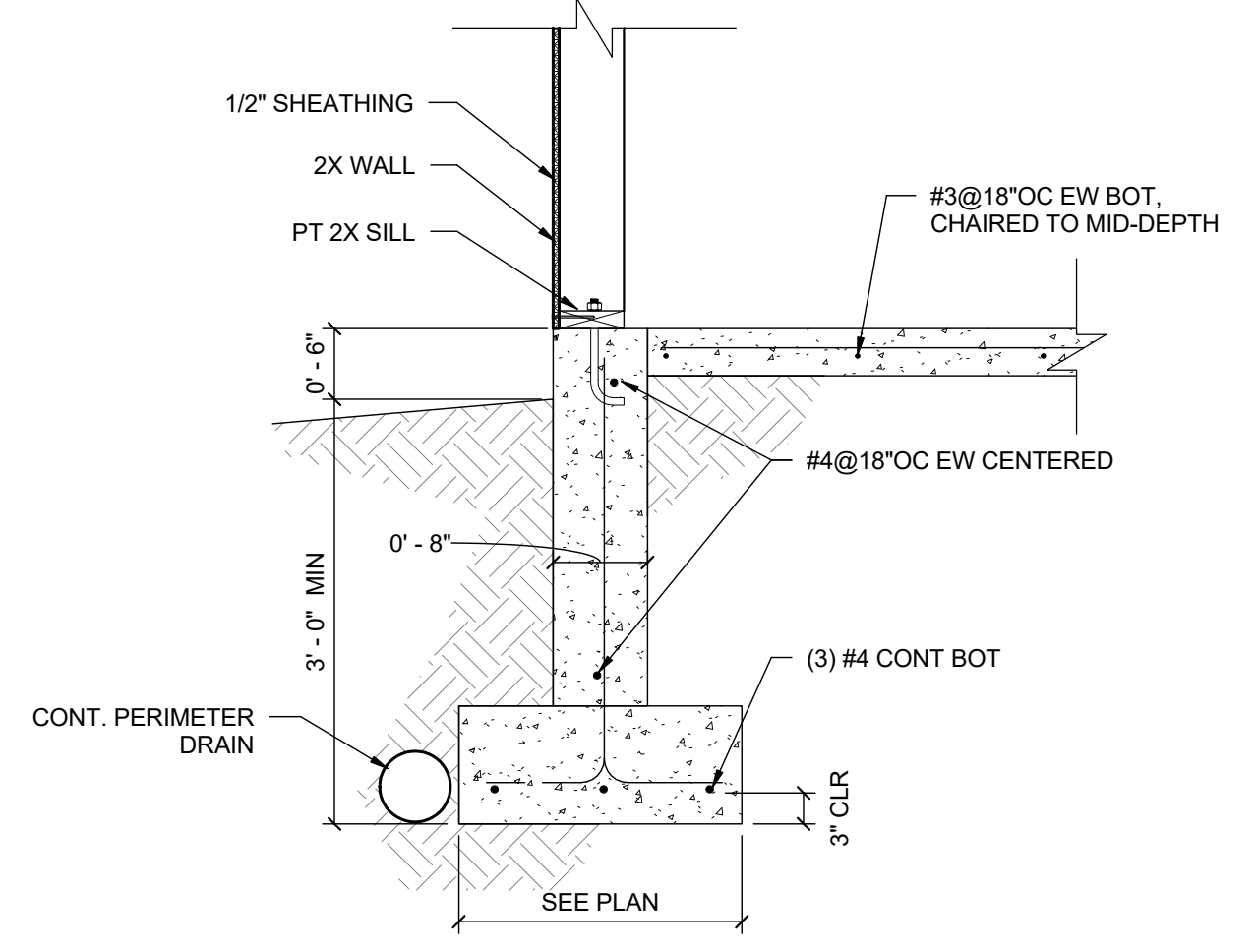
TYP. FOUNDATION @ PERPENDICULAR JOIST



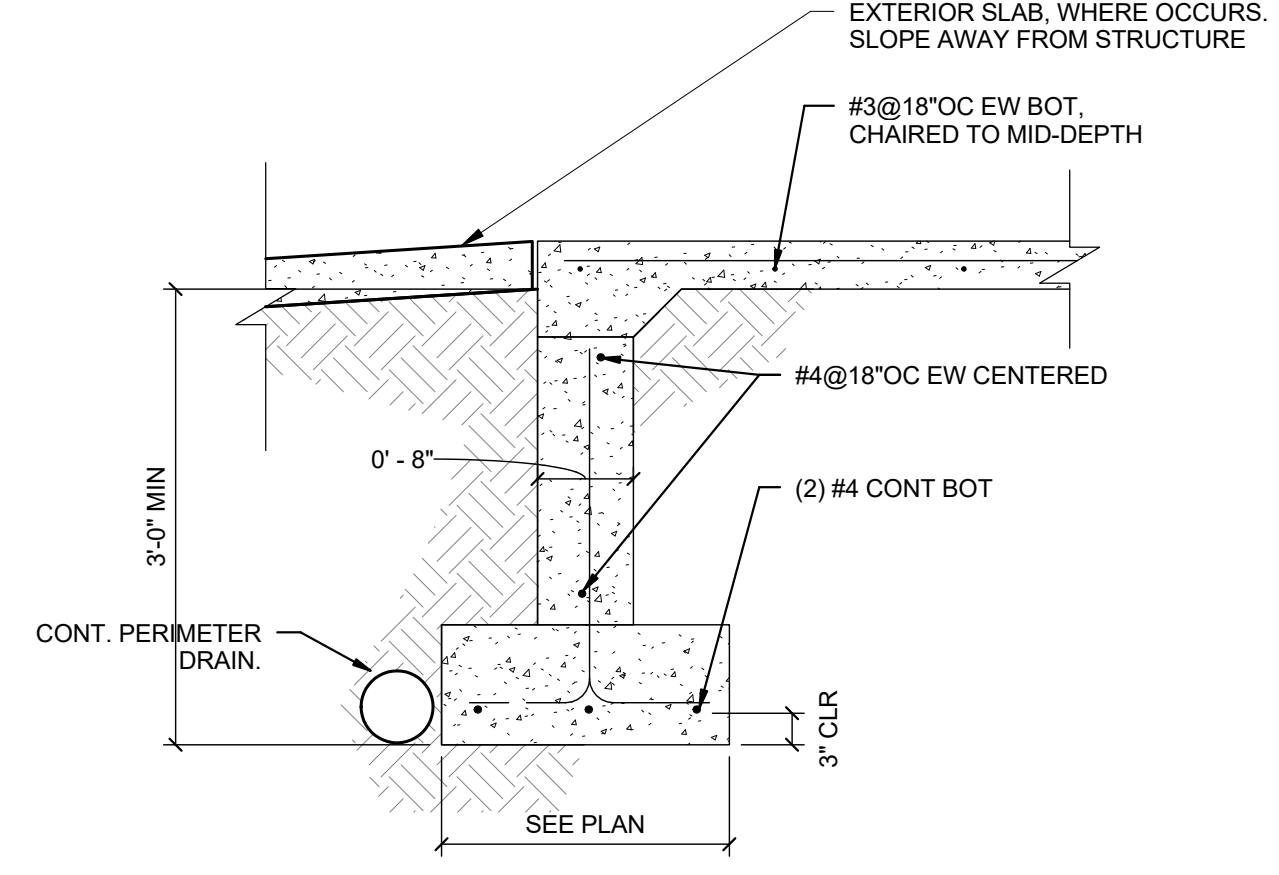
TYP. FOUNDATION @ GARAGE INTERIOR



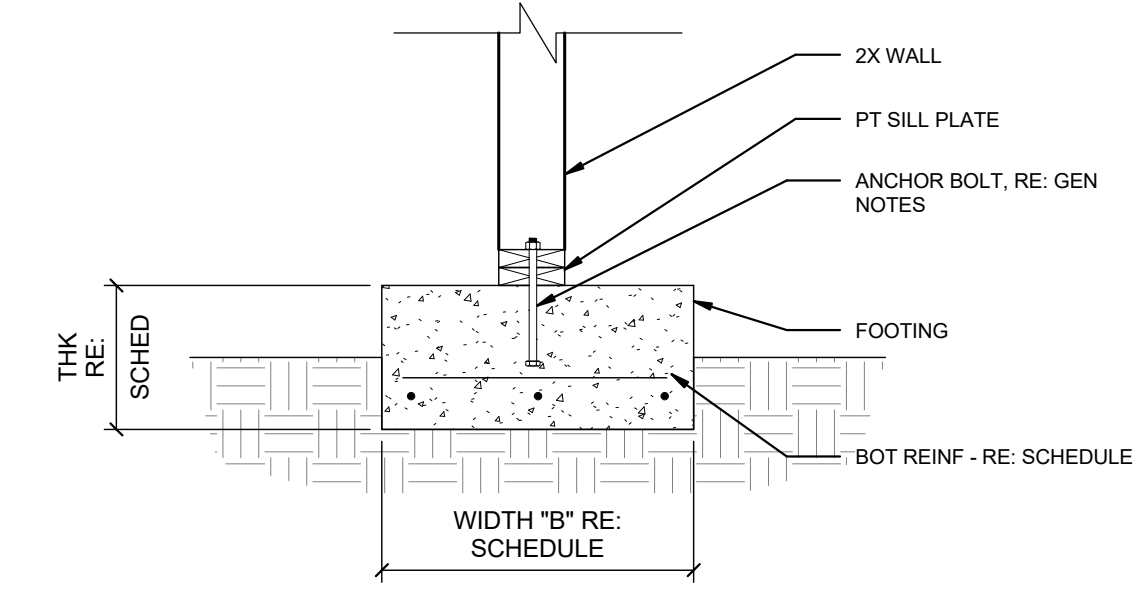
TYP. TRUSS FRAMING DETAIL



TYP. FOUNDATION @ GARAGE



TYP. STEMWALL @ DOOR OPENING



TYP. INTERIOR FOOTING

- FOOTING NOTES:
1. FOOTINGS SHALL BEAR ON PROOF ROLLED NATIVE SOIL OR COMPACTED FILL.
  2. FOOTINGS DESIGNED FOR ALLOWABLE BEARING PRESSURE OF 1.5 KSF.
  3. CENTER CONTINUOUS FOOTING UNDER WALLS UNO COLUMN FOOTINGS ARE CENTERED UNDER COLUMNS. UNO
  4. BEARING ELEVATIONS ARE SUBJECT TO ADJUSTMENT AS REQUIRED BY SUITABILITY OF BEARING MATERIAL.
  5. RE: GENERAL NOTES FOR ADDITIONAL INFORMATION.

1 Typ. Structural Details  
3/4" = 1'-0"