

MILL CREEK
POST & BEAM COMPANY



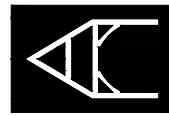
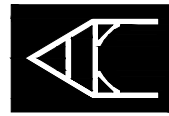
FINAL DOCUMENTS

A NEW RESIDENCE FOR
ERICK & DONNA SPANGLER

AT

10593 MOLLER ROAD, LAWRENCE COUNTY, SPEARFISH, S.D. 57783





PACKAGE SPECIFICATIONS

- 1. TIMBER FRAME SYSTEM
Floor to Floor Height N/A
Floor to Plate Height 8'-10 1/2" - 11'-4 1/2" (AT FOYER)
Wood Species DOUGLAS FIR NO. 1 (OR BETTER)
2. SHELL SYSTEM
Panel System (Urethane core panels)
Walls: R-25 Walls 5" jamb width
Roof: R-32 Roof structural panels
3. INTERIOR WALL FINISH
1/2" GYPSUM BOARD
4. INTERIOR CEILING FINISH
1x8 T&G PINE (AT TIMBER FRAMED AREAS ONLY)
5. LOFT DECKING
N/A
6. SIDING (EXTERIOR)
CLAPBOARD SIDING (BY OTHERS), BOARD & BATTEN SIDING
WESTERN RED CEDAR SHINGLE
7. TRIM (EXTERIOR)
(REFER TO ELEVATIONS)
8. ROOFING
40 YEAR ARCHITECTURAL GRADE SHINGLES, STANDING SEAM METAL ROOF
9. ADDITIONAL MATERIALS TO BE PROVIDED BY MILL CREEK POST & BEAM CO., INC.

Table with 3 columns: Material, Quantity, To be used at

STRUCTURAL DESIGN REQUIRMENTNS

ASCE 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS
2018 INTERNATIONAL BUILDING CODE
2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION

DESIGN CRITERIA

Table with 2 columns: Category (DEAD LOAD, SNOW LOAD, LIVE LOAD, WIND LOAD, SEISMIC) and Value

WINDOW SCHEDULE

Table with 8 columns: Unit, Qty., Model Number, Manufacturer, Color, Operation, Jamb, Comments

DOOR SCHEDULE

Table with 8 columns: Unit, Qty., Model Number, Manufacturer, Color, Operation, Jamb, Comments

INDEX OF DRAWINGS

ARCHITECTURAL PLANS

Renderings A-01 to A-04
Drawn by: DFW Date: 03.22.2021
Elevations A-1 to A-4
Drawn by: DFW Date: 03.22.2021
Floor Plans A-5 to A-5.1
Drawn by: DFW Date: 03.22.2021
Building Section A-6
Drawn by: DFW Date: 03.22.2021

REVISIONS

1st Revision
Drawn by: DFW Date: 03.22.2021
2nd Revision
Drawn by: JCW Date: 04.14.21
3rd Revision
Drawn by: HG Date: 08.13.21

FOUNDATION PLANS

FD-1
Drawn by: JCW Date: 04.14.21
FD-2
Drawn by: JCW Date: 04.14.21
FD-3
Drawn by: Date:

FRAME PLANS

Frame Plans to
Drawn by: Date:

PANEL PLANS

Panel Plans to
Drawn by: Date:

ENGINEER NOTES:

GENERAL NOTES - TIMBER FRAME ELEMENTS HAVE BEEN DESIGNED TO RESIST GRAVITY LOAD ONLY. IT IS THE RESPONSIBILITY OF THE TIMBER FRAME SYSTEM PURCHASER (OWNER AND/OR CONTRACTOR) TO VERIFY ALL DIMENSIONS INDICATED ON THE TIMBER FRAME SYSTEM DRAWINGS...

TIMBERS - UNLESS OTHERWISE NOTED, SOLID SAWN TIMBER SHALL BE DOUGLAS FIR #1 OR BETTER SIZED TO 1/2" UNDER STATED NOMINAL DIMENSION. TIMBERS MAY NOT BEAR A GRADE STAMP, BUT SHALL OTHERWISE MEET THE REQUIREMENTS OF #1 OR BETTER MATERIAL...

TIMBER SCREWS - UNLESS NOTED OTHERWISE, ALL SCREWS SHALL BE BY GRK R50 OR ROTHOBLAAS T80 OR OTHER APPROVED SCREW WITH A SHANK DIAMETER OF AT LEAST 0.21" AND A THREAD DIAMETER OF AT LEAST 0.30". SCREW HOLES SHALL NOT BE PRE-DRILLED UNLESS OTHERWISE NOTED, AND HAVE AT LEAST 3" OF THREAD PENETRATION INTO THE CONNECTING MEMBER.

TIMBER FRAME JOINERY - UNLESS OTHERWISE CALLED OUT IN JOINERY DETAILS ON THE STRUCTURAL AND TIMBER FRAME DRAWINGS, THE JOINERY SHOULD MEET THE FOLLOWING REQUIREMENTS, AND BE DETAILED IN ACCORDANCE WITH THE TPEC 1-19.

ALL PEGS SHALL BE 1" IN DIAMETER, AND MEET THE REQUIREMENTS OF TPEC 1-19.

TENONS CONNECTING MEMBERS IN 6X MATERIAL AND LARGER (SMALLEST DIRECTION), SHALL BE 2" THICK AND 5" IN LENGTH, WITH 3" OF RELISH IN 6X MATERIAL, 1 1/2" THICK, 4" LONG TENONS WITH 2 1/2" RELISH SHALL BE USED.

WHERE TENON INTERFERENCE OCCURS, TENONS SHALL BE AS LONG AS POSSIBLE, AND OFFSET (HIGH/LOW) WHERE POSSIBLE. IN THREE WAY AND FOUR WAY CONNECTIONS, 1 1/2" THICK HARDWOOD SPECIFIC GRAVITY EQUAL TO OR GREATER THAN THE CONNECTING MEMBERS) OR 3/4" LVL SPLINES ARE STRONGLY ENCOURAGED.

HOUSINGS FOR 6X AND LARGER STOCK SHALL BE 1" UNLESS SPECIFIED OTHERWISE. WHERE 6X FRAMING IS NOT DIRECTLY SUPPORTING THE ROOF OR FLOOR LOADS, 1/2" STUD TENONS MAY BE USED IN PLACE OF FULL 1" HOUSINGS. 4X MATERIAL, INCLUDING BRACES, SHALL BE HOUSED 1/4". BIRD'S MOUTHS, REDUCTIONS, AND COPES NOT SUPPORTED BY A BEARING SURFACE SHALL NOT EXCEED MORE THAN 1/4" THE MEMBER DEPTH WITHOUT REQUIRING FURTHER REINFORCEMENT.

DOVETAIL CONNECTIONS - UNLESS OTHERWISE NOTED, ROUNDED DOVETAIL CONNECTIONS SHALL HAVE A DEPTH OF 1" AND SHALL EXTEND FOR AT LEAST 3/4" THE DEPTH AND 3/4" THE WIDTH AT THE TOP OF FACE) OF THE CONNECTING (SUPPORTING) MEMBER. THE CONNECTIONS SHALL HAVE A CONE ANGLE OF AT LEAST 10 DEGREES AND A WEDGE ANGLE OF 15 DEGREES.

NOTICE TO CUSTOMER

We believe that these drawings are accurate and complete in that they meet your requirements as noted in the Mill Creek Package Specifications. However, no warranties, either expressed or implied are here claimed.

WORK BY OTHERS

Mill Creek Post & Beam Co., Inc. (Design) makes no warranty expressed or implied as to.

Conformity of the plans with building codes or other ordinances, laws, or regulations covering construction and structural soundness of any work by others constructed in accordance with these plans. It is the responsibility of the building contractor to review these plans and to make such alterations as are necessary to enable the contractor to warrant the structural soundness of any work by others thus constructed, and to insure compliance with all applicable building codes.

The purchaser should ensure that the plans comply with all applicable building codes and are suitable for a particular site, including any subdivision restrictions, before actual construction begins. Because we have no control over the selection of your builder or other professionals, we cannot be responsible for the advice or assistance you receive from them or for the methods they use.

Purchaser and contractor assume full responsibility for the design, engineering, and construction of work by others, including, but not limited to mechanical systems, etc.

PROJECT NOTES

NOTE TO BUILDER

- Materials by Builder to Complete Package Assembly
Expanding foam at panel seams per Mill Creek details. Failure to properly foam may result in failure of shingles and/or moisture issues.
30 lb. felt or synthetic roof deck protection
Synthetic roofing fabric vapor barrier (over ceiling finish)
Tyvek air infiltration barrier (over wall panels)
Flashing for doors and windows (if required)
Caulking/tape for doors and windows

Work by Builder in Addition to Package

- Site work, concrete work, masonry work, exterior deck and steps, all interior stud partitions and finishes, interior millwork including all doors and trim, painting and staining, coordination and general contracting of all sub trades including, but not limited to, plumbing, electrical, heating and A/C work, etc.

- Coordination and installation of all utilities (sewer, water, electrical, telephone, etc.)

- Framing of first floor and all other work indicated on drawings as 'by others'

- Conventional framing at recessed entries

- Construction of cricket roofs when required between timber frames

- Final dimensions of interior layout shall be determined by builder in accordance with owner's selection of interior finishes. Review door, window and skylight locations. Do not scale from drawings.

- Builder shall make all necessary adjustments in dimensions to accommodate cabinets, counters, appliances, shelving, floor finishes, plumbing and electrical fixtures.

- Builder shall not adjust or alter timber as designed and cut by Mill Creek, without contacting Mill Creek and receiving written detail approving alteration. Failure to do so will void structural warranty.

SQUARE FOOTAGE SUMMARY

Table with 2 columns: Category (Heated S.F. by Mill Creek, Unheated S.F. by Mill Creek, Total S.F. by Mill Creek) and Value

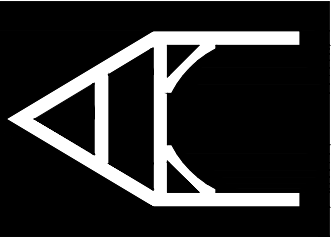
Total Heated S.F. 1995

SPECIAL NOTES

NOTE TO CUSTOMER

Your signature here indicates no additional changes to the Architectural Plans as drawn or your approval of the plans with changes as indicated. Your signature is required for the preparation of Mill Creek Production Drawings.

Signature Date



A RESIDENCE FOR: ERICK AND DONNA SPANGLER SITE LOCATION: SPEARFISH, SD 57183

MILL CREEK POST & BEAM COMPANY

e@millcreekinfo.com P: 828.749.8000 F: 828.749.8001 P.O. BOX 580 SAULDA, N.C. 28773

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DO NOT SCALE DIMENSIONS FROM BLUEPRINT

DRAWN BY: DW

CHECKED BY: DATE: 08.18.21

PROJECT NO. 2103

DRAWING PROJECT SUMMARY

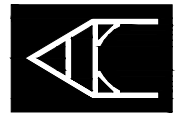
REVISIONS REV 1: 03.22.21

REV 2: 04.14.21

REV 3: 08.13.21

Sheet Number

C1

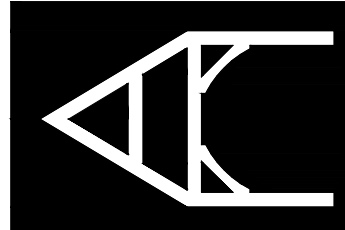


1 FRONT ELEVATION
A01 SCALE: N.T.S.



2 RIGHT ELEVATION
A01 SCALE: N.T.S.

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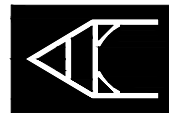
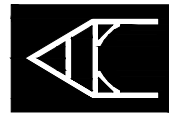
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DATE:	08.18.21
PROJECT NO.	2103
DRAWING	RENDERING36
REVISIONS	REV 1: 03.22.21
	REV 2: 04.14.21
	REV 3: 08.13.21

Sheet Number
A01



1 REAR ELEVATION
A02 SCALE: N.T.S.



2 LEFT ELEVATION
A02 SCALE: N.T.S.

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PROJECT NO. 2103

DRAWING RENDERING36

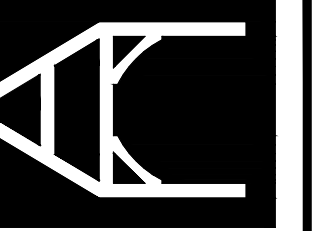
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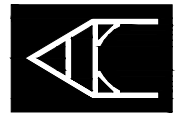
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A02





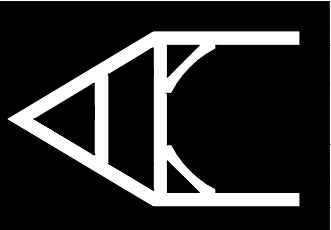
1 RIGHT FRONT ELEVATION
 A03 SCALE: N.T.S.



2 RIGHT REAR ELEVATION
 A03 SCALE: N.T.S.

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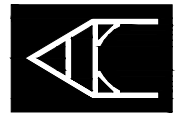
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PROJECT NO.	2103
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REVISIONS	REV 1: 03.22.21
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	REV 3: 08.13.21

Sheet Number
 A03

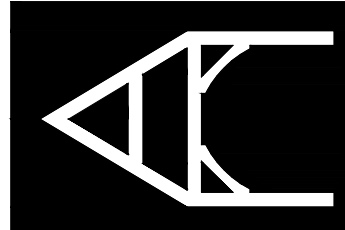


1 LEFT REAR ELEVATION
A04 SCALE: N.T.S.



2 LEFT FRONT ELEVATION
A04 SCALE: N.T.S.

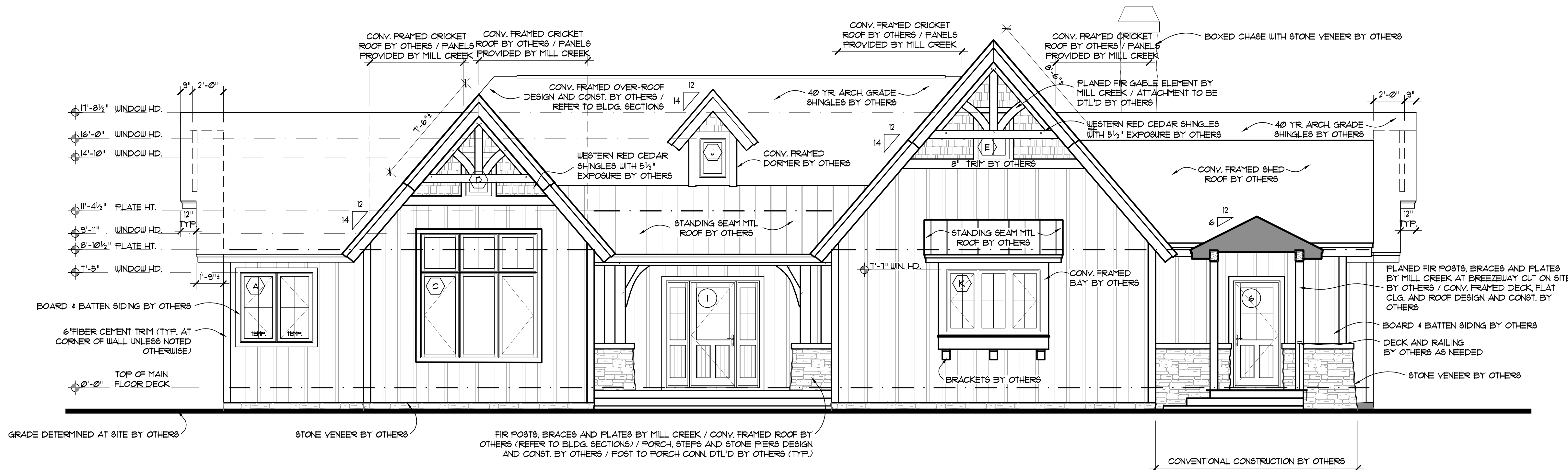
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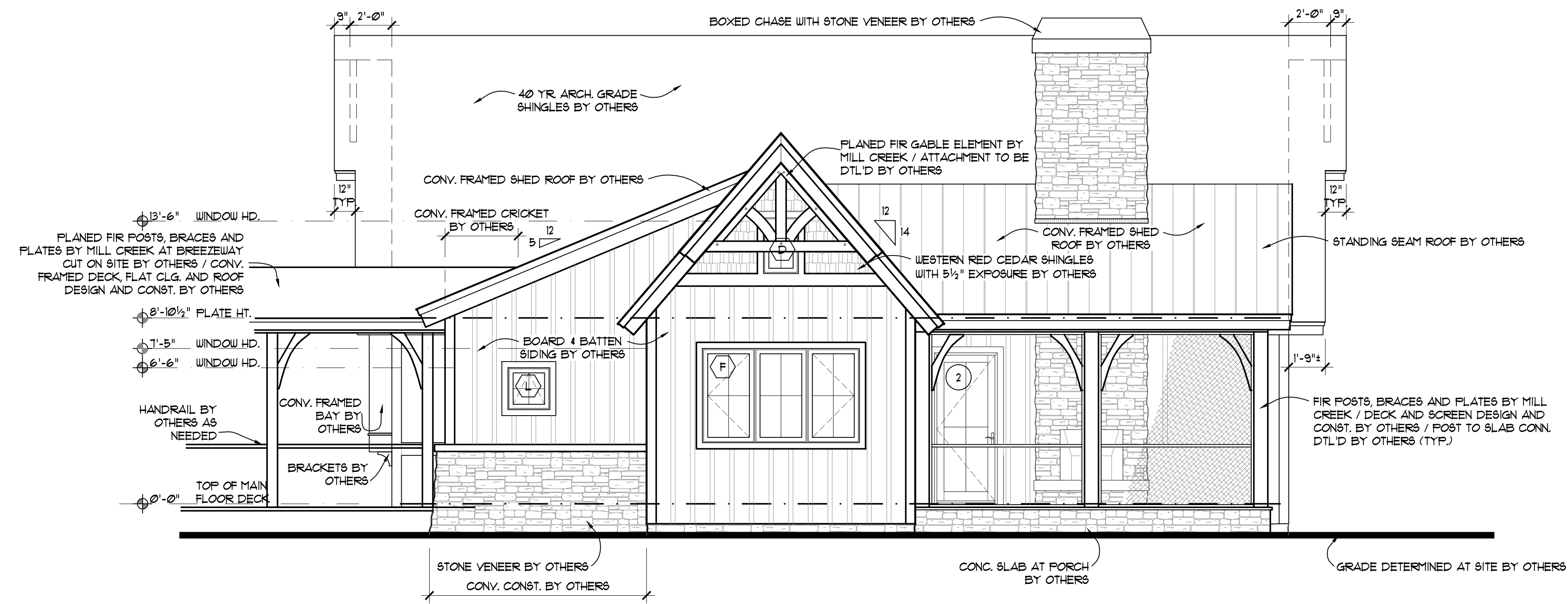
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DATE:	08.18.21
PROJECT NO.:	2103
DRAWING	RENDERING36
REVISIONS	REV 1: 03.22.21
	REV 2: 04.14.21
	REV 3: 08.13.21
Sheet Number	A04



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



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

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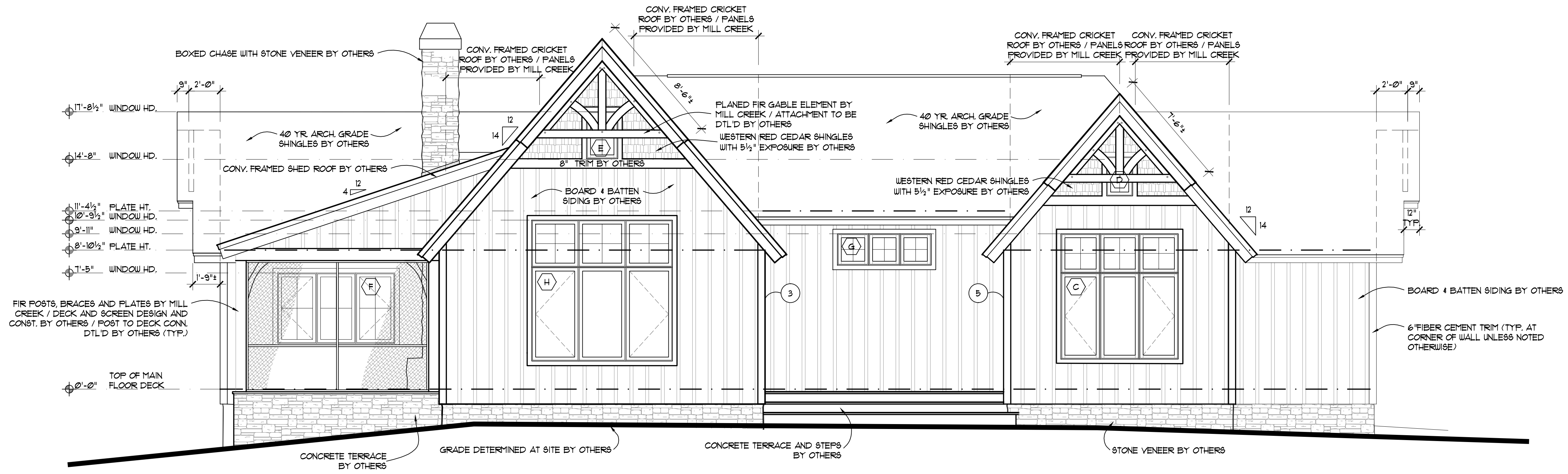
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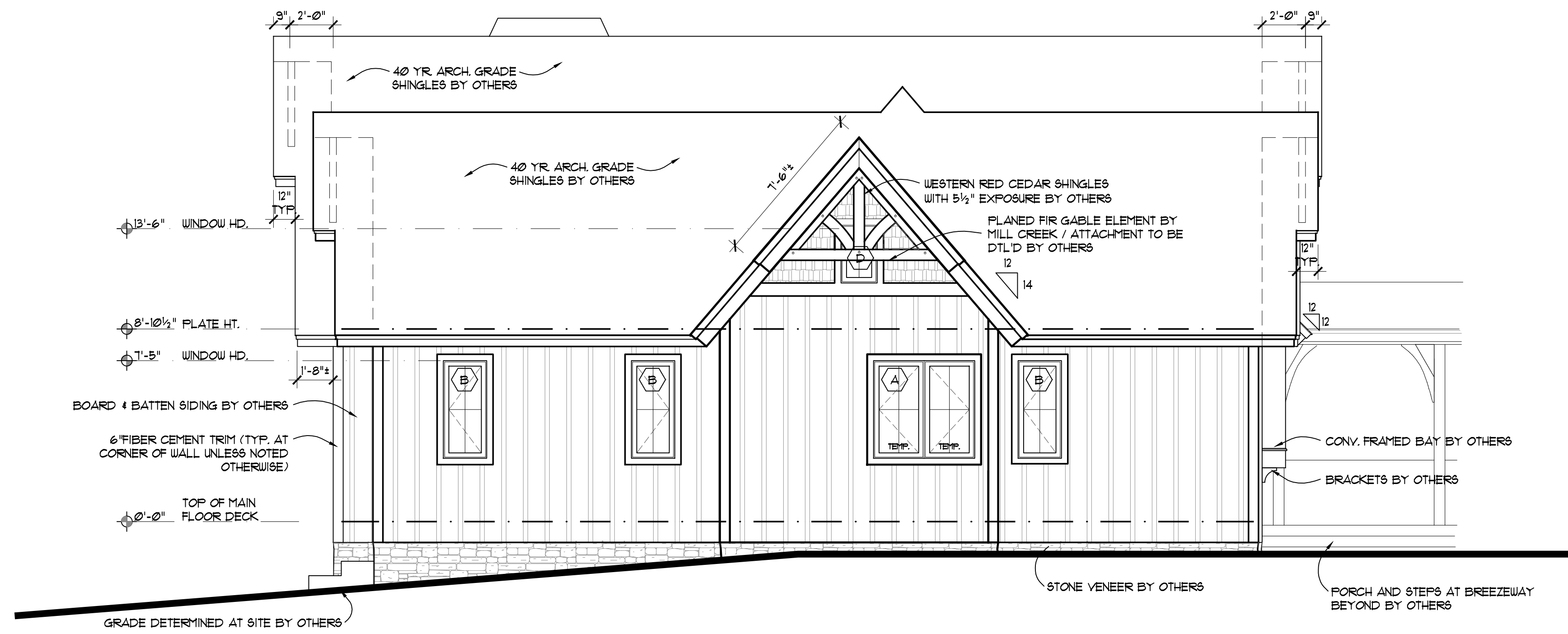
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PROJECT NO.	2103
DRAWING	EXTERIOR ELEVATIONS
REVISIONS	REV 1: 03.22.21
	REV 2: 04.14.21
	REV 3: 08.13.21
Sheet Number	A1



1 REAR ELEVATION
A2
SCALE: 1/4" = 1'-0"



2 LEFT ELEVATION
A2
SCALE: 1/4" = 1'-0"

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CHECKED BY:

DATE: 08.18.21

PROJECT NO. 2103

DRAWING EXTERIOR ELEVATIONS

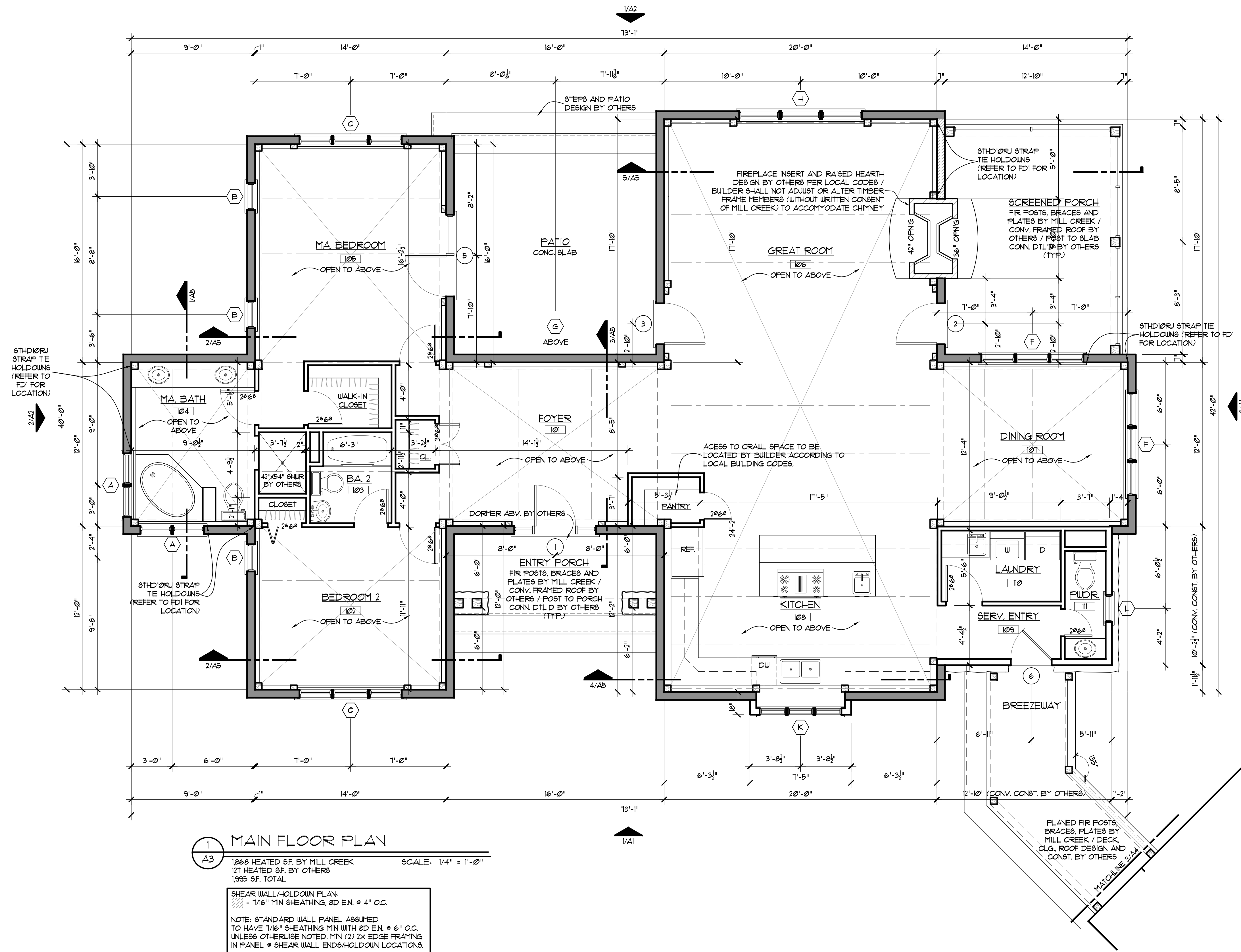
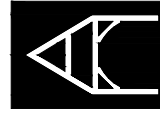
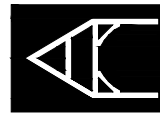
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REV 2: 04.14.21

REV 3: 08.13.21

Sheet Number

A2

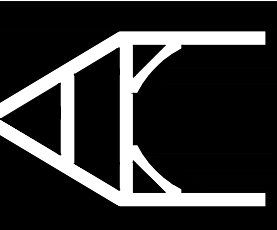


1 MAIN FLOOR PLAN
 1268 HEATED SF. BY MILL CREEK
 121 HEATED SF. BY OTHERS
 1895 SF. TOTAL
 SCALE: 1/4" = 1'-0"
 SHEAR WALL/HOLDOWN PLAN:
 [Symbol] - 1/16" MIN SHEATHING, 8D EN @ 4" O.C.
 NOTE: STANDARD WALL PANEL ASSUMED TO HAVE 1/16" SHEATHING MIN WITH 8D EN @ 6" O.C. UNLESS OTHERWISE NOTED. MIN (2) 2X EDGE FRAMING IN PANEL @ SHEAR WALL ENDS/HOLDOWN LOCATIONS.

LEGEND

- SOLID AREA INDICATES WALL PANEL BY MILL CREEK
- [Symbol] INDICATES WALLS BY OTHERS
- [Symbol] INDICATES POST BY MILL CREEK
- [Symbol] INDICATES POST BY OTHERS
- [Symbol] @ OF RAFTER ABV. BY MILL CREEK

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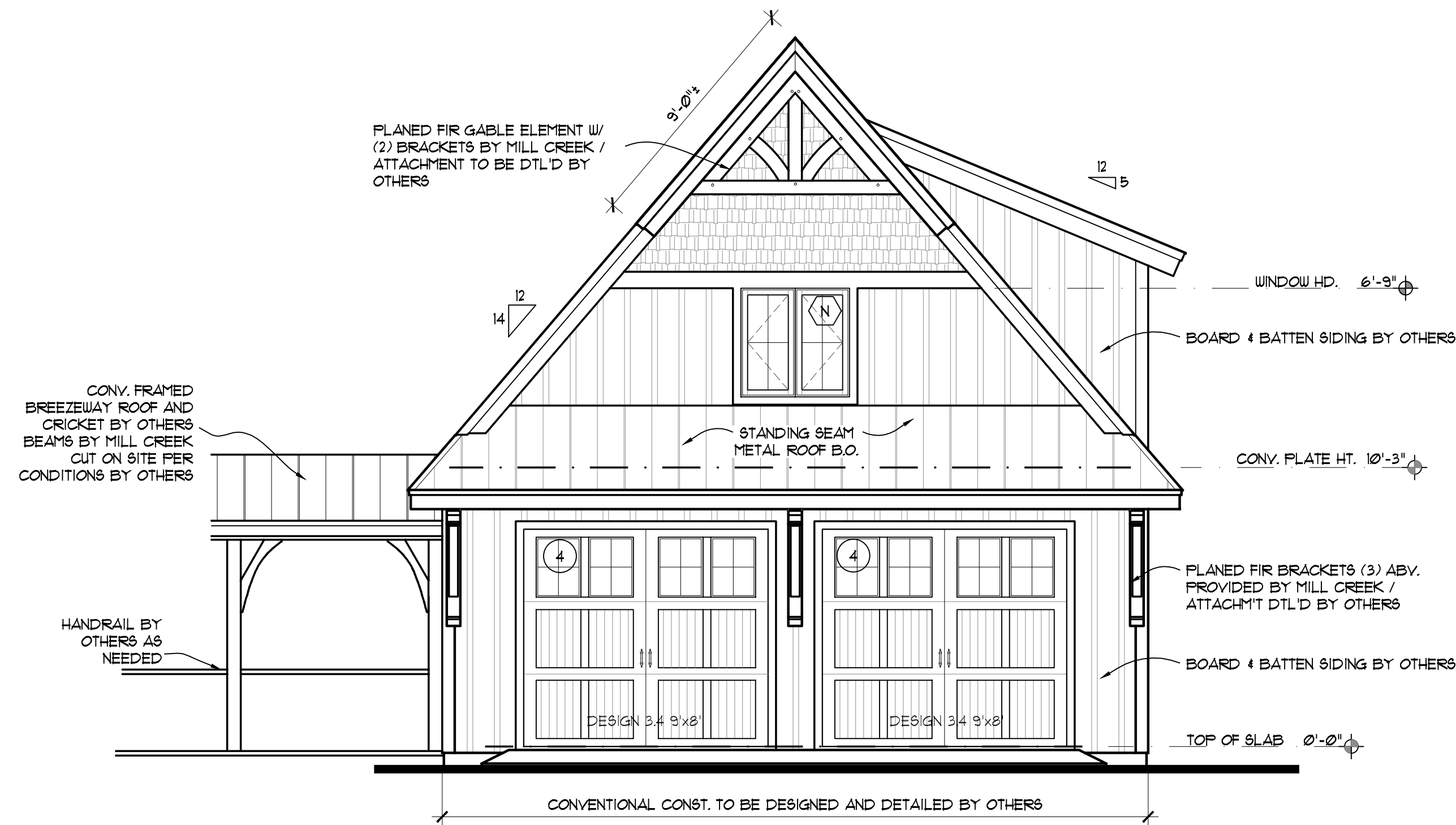
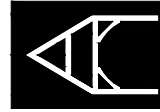
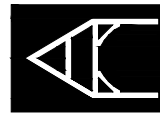
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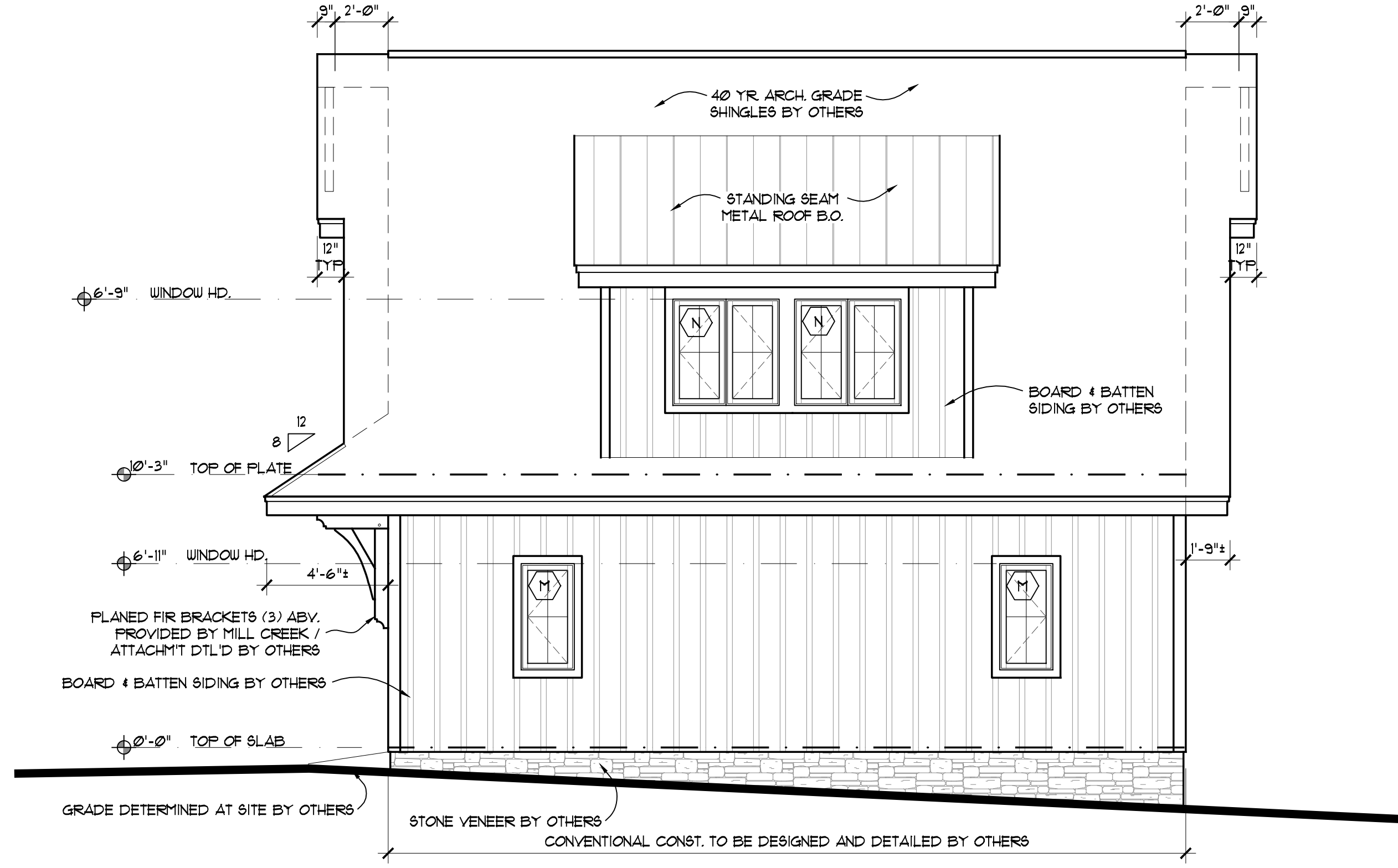
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DATE:	08.18.21
PROJECT NO.	2103
DRAWING	MAIN FLOOR PLAN
REVISIONS	REV 1: 03.22.21
	REV 2: 04.14.21
	REV 3: 08.13.21

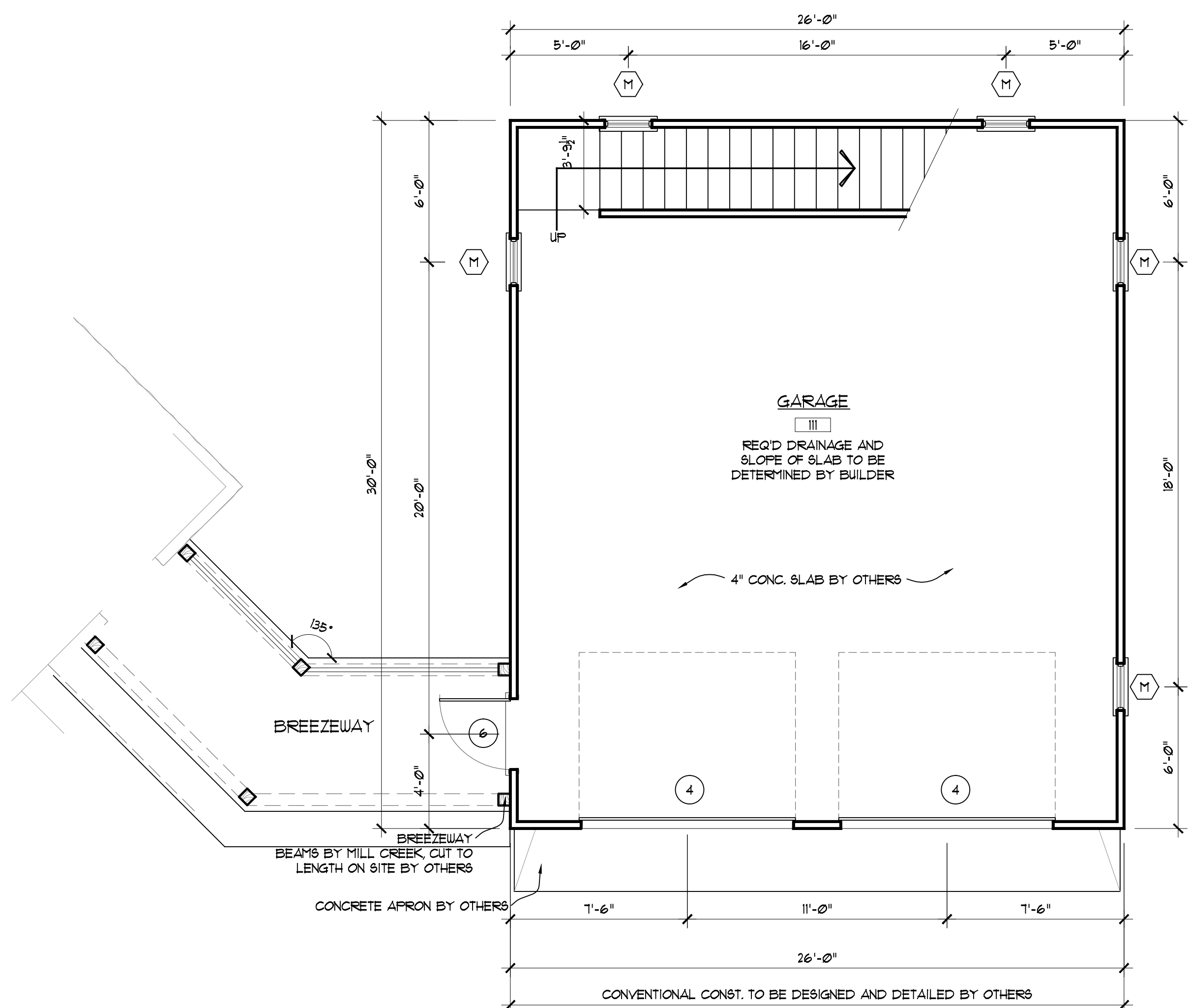
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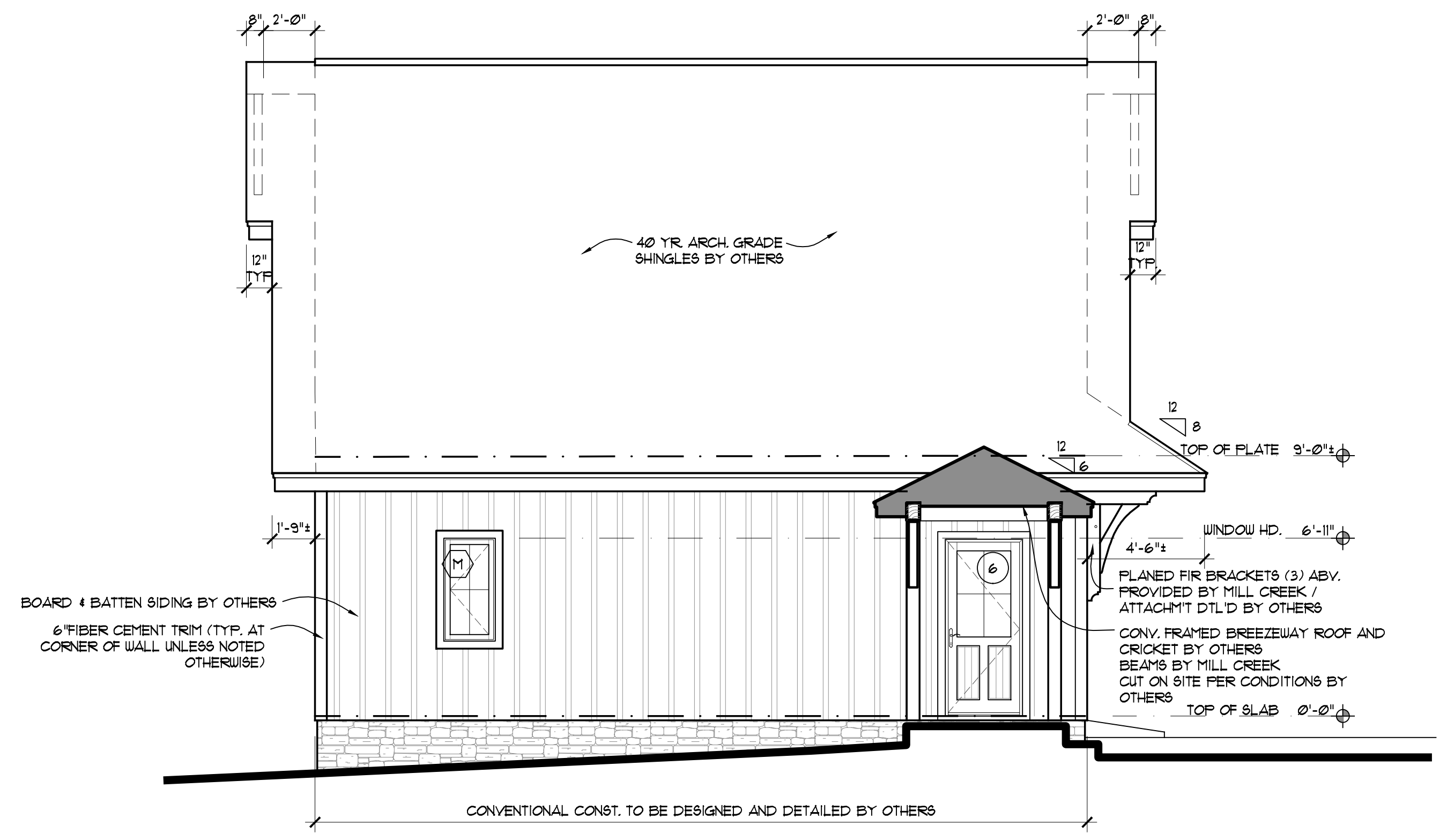
1 FRONT ELEVATION
SCALE: 1/4" = 1'-0"



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

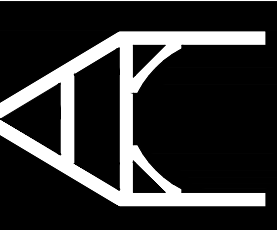


3 FLOOR PLAN
SCALE: 1/4" = 1'-0"



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

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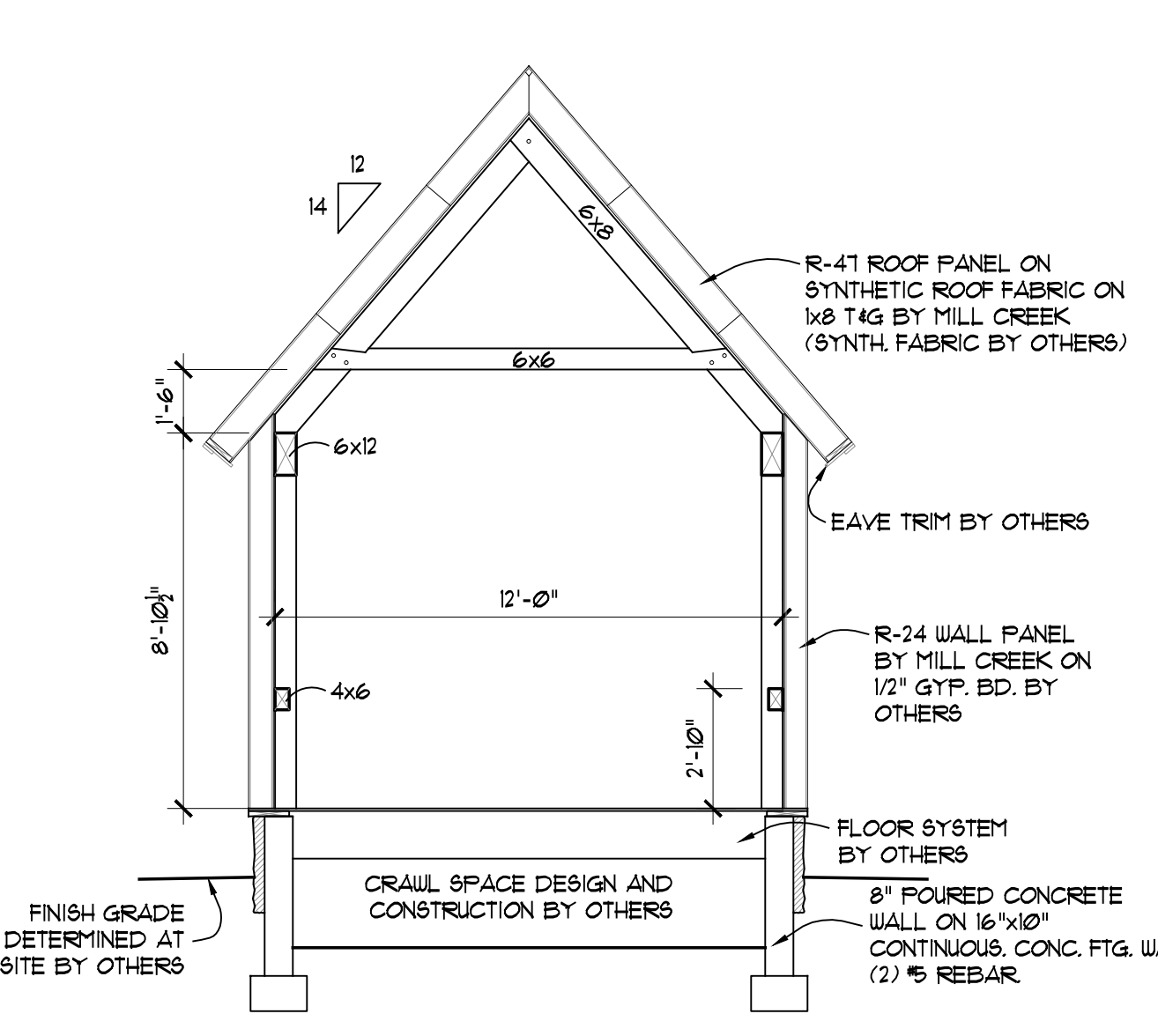
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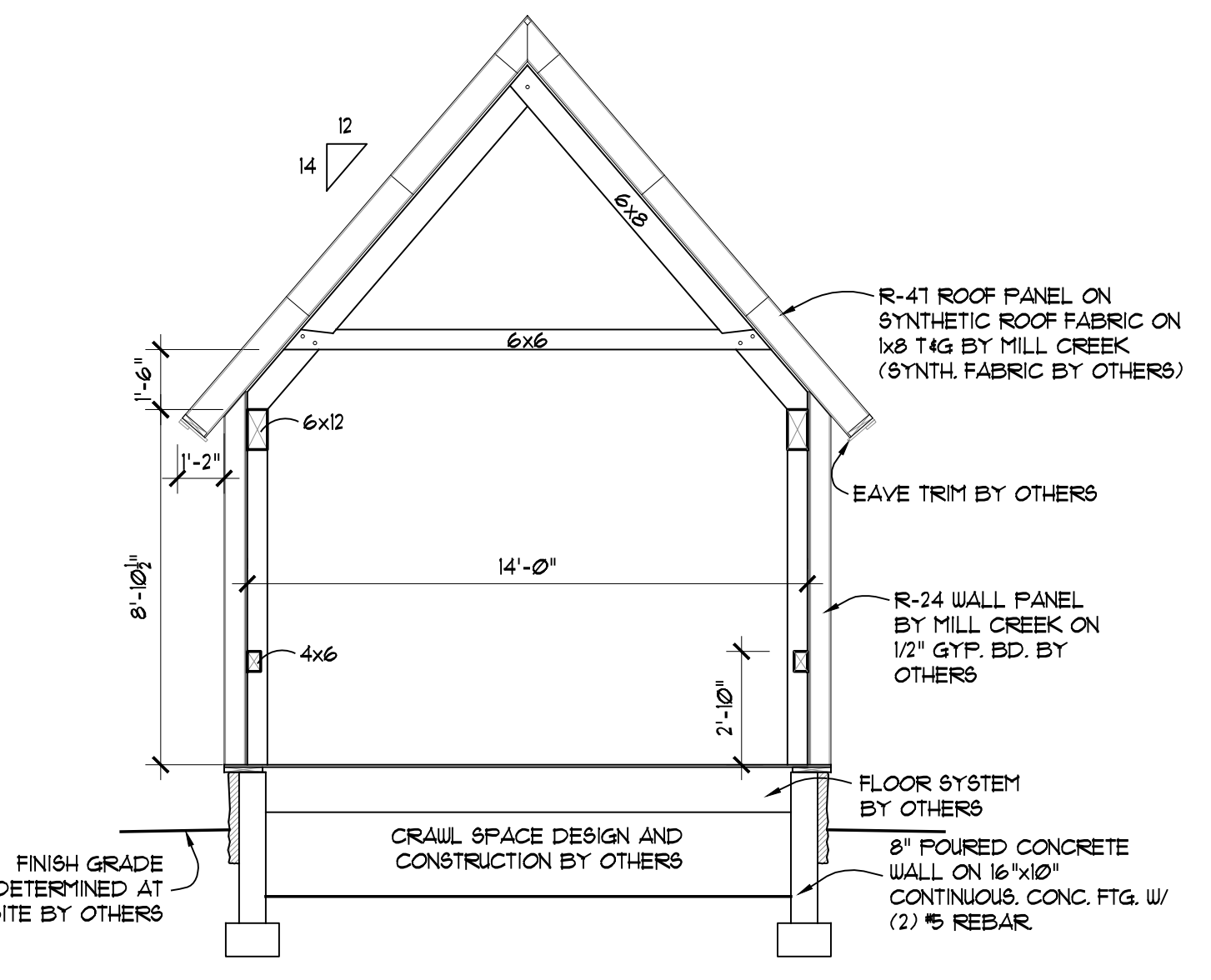
DO NOT SCALE DIMENSIONS FROM BLUEPRINT

DRAWN BY:	DW
CHECKED BY:	
DATE:	08.18.21
PROJECT NO.	2103
DRAWING	GARAGE FLOOR PLAN
REVISIONS	REV 1: 03.22.21
	REV 2: 04.14.21
	REV 3: 08.13.21

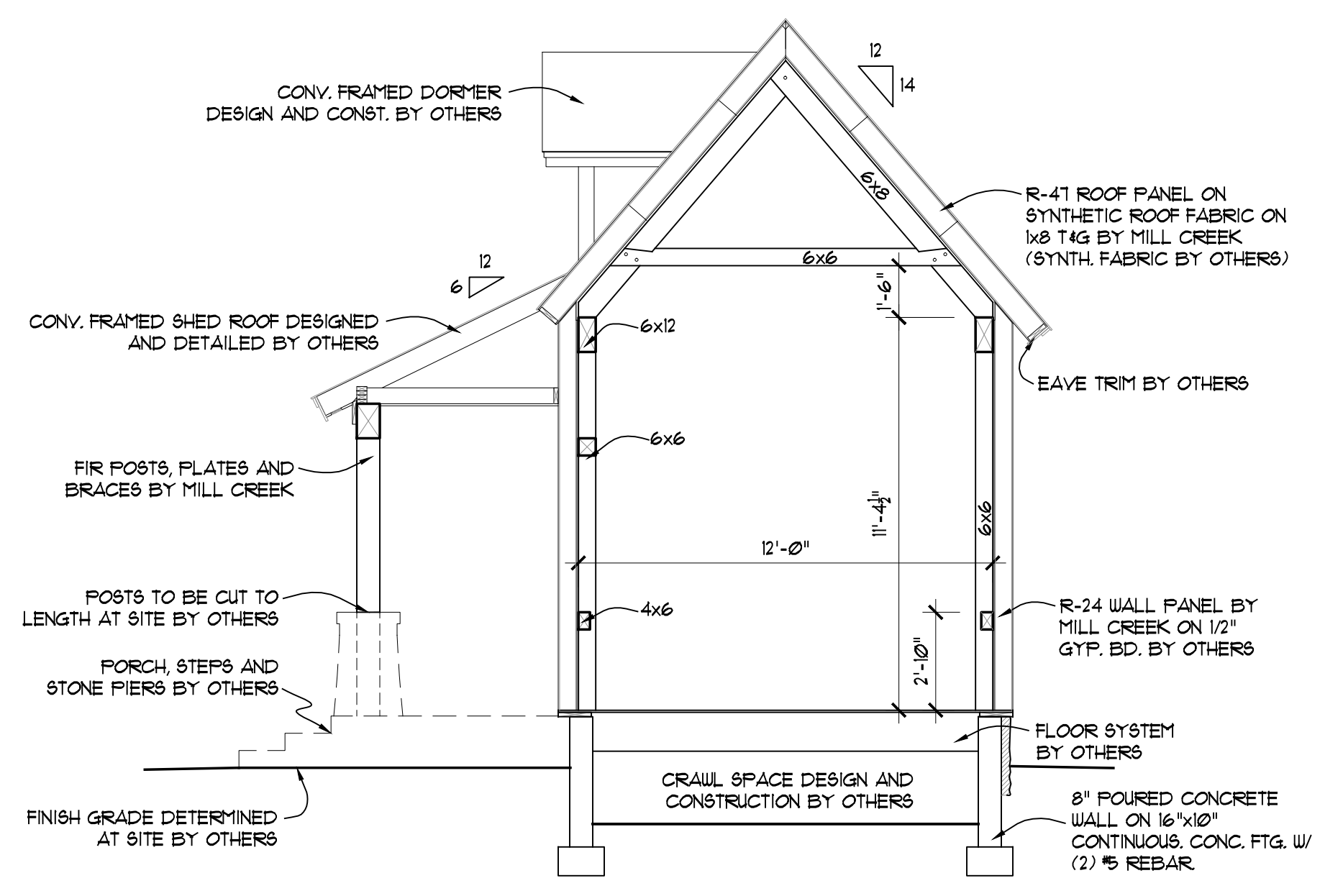
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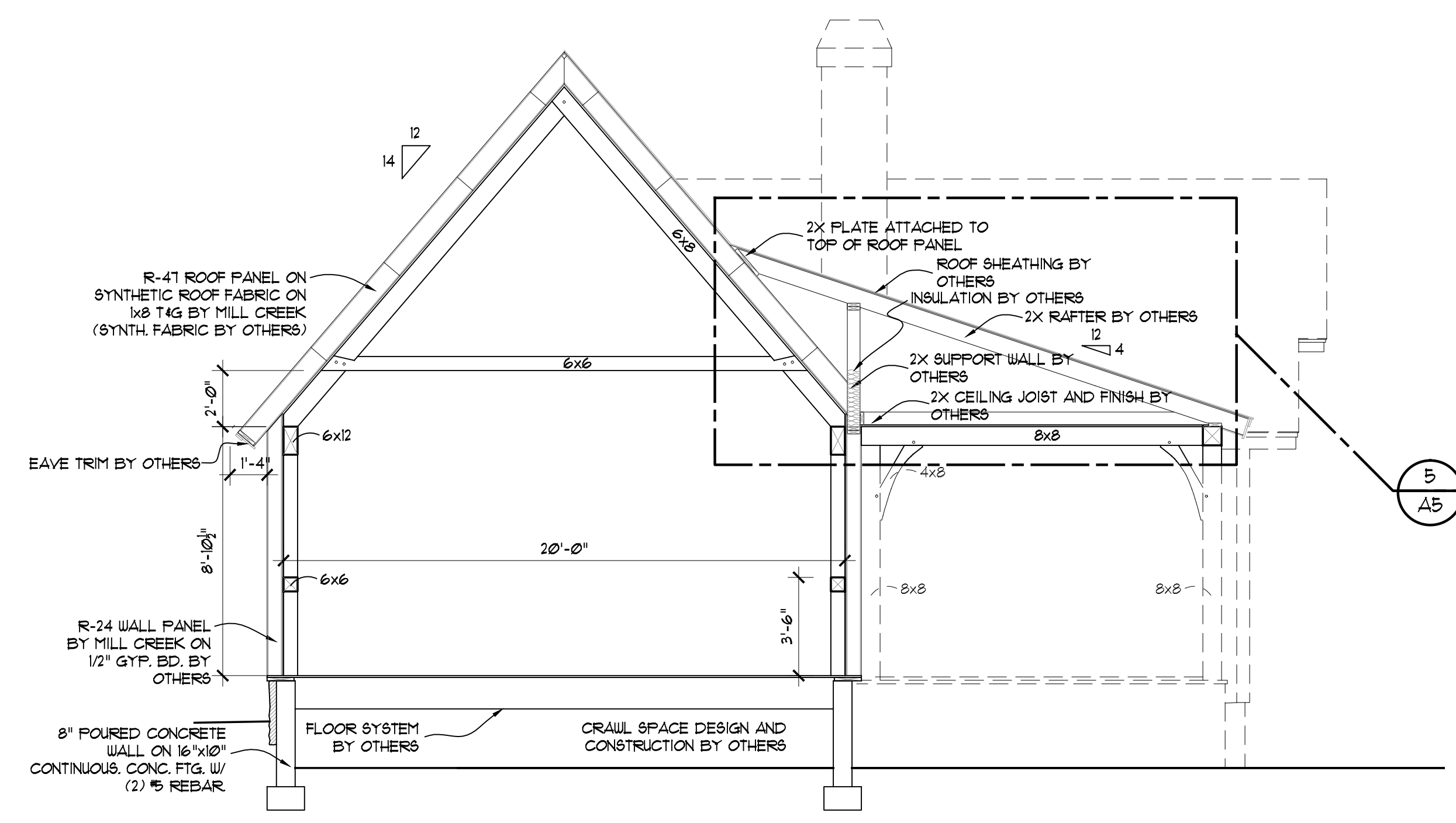
1 BUILDING SECTION
A5 AT MASTER BATH SCALE: 1/4" = 1'-0"



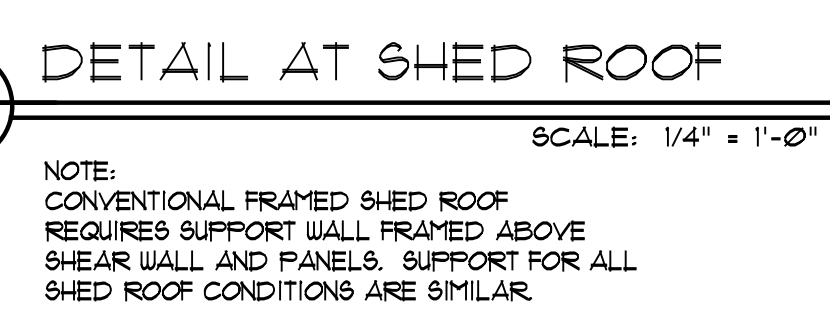
2 BUILDING SECTION
A5 AT MASTER BEDROOM SCALE: 1/4" = 1'-0"



3 BUILDING SECTION
A5 AT FOYER SCALE: 1/4" = 1'-0"

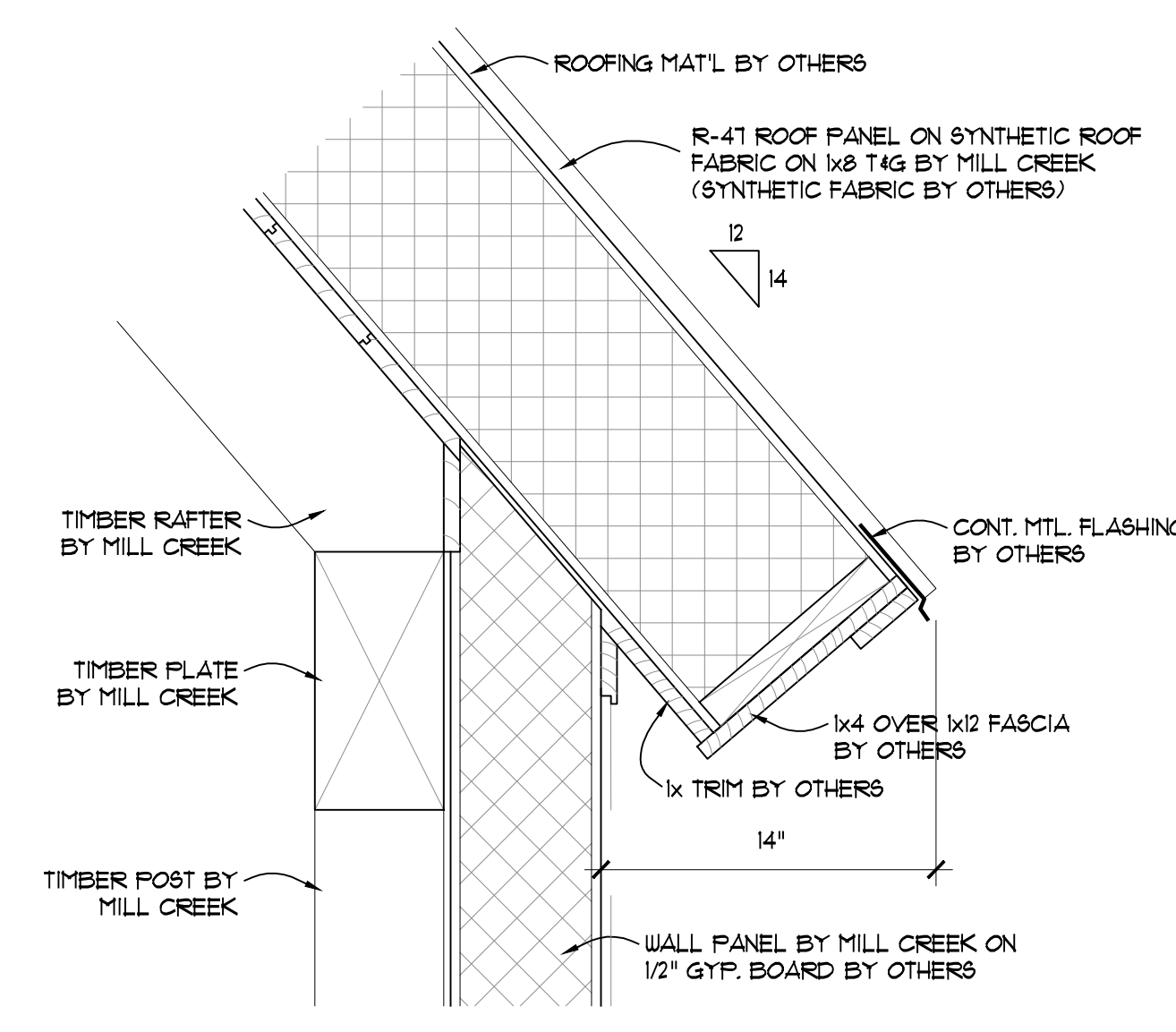


4 BUILDING SECTION
A5 AT GREAT ROOM SCALE: 1/4" = 1'-0"



5 DETAIL AT SHED ROOF
A5 SCALE: 1/4" = 1'-0"

NOTE: CONVENTIONAL FRAMED SHED ROOF REQUIRES SUPPORT WALL FRAMED ABOVE SHEAR WALL AND PANELS. SUPPORT FOR ALL SHED ROOF CONDITIONS ARE SIMILAR.



6 EAVE FASCIA DETAIL
A5 SCALE: 1" = 1'-0"

ENGINEER NOTES:
GENERAL NOTES - TIMBER FRAME ELEMENTS HAVE BEEN DESIGNED TO RESIST GRAVITY LOAD ONLY. IT IS THE RESPONSIBILITY OF THE TIMBER FRAME SYSTEM PURCHASER (OWNER AND/OR CONTRACTOR) TO VERIFY ALL DIMENSIONS INDICATED ON THE TIMBER FRAME SYSTEM DRAWINGS. SHRINKAGE OF TIMBERS MAY RESULT IN THE "LOOSENING" OF BOLTS AND ALL THREAD CONNECTORS. PERIODIC TIGHTENING OF THESE CONNECTIONS DURING THE FIRST SEVERAL YEARS OF THE STRUCTURE'S SERVICE LIFE IS REQUIRED. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. DO NOT SCALE ANY DRAWINGS.

TIMBERS - UNLESS OTHERWISE NOTED, SOLID SAUN TIMBER SHALL BE DOUGLAS FIR #1 OR BETTER SIZED TO 1/4" UNDER STATED NOMINAL DIMENSION. TIMBERS MAY NOT BEAR A GRADE STAMP, BUT SHALL OTHERWISE MEET THE REQUIREMENTS OF #1 OR BETTER MATERIAL. SOME WARPING, TWISTING, AND CHECKING OF THE TIMBERS IS ANTICIPATED AS THEY REACH EQUILIBRIUM MOISTURE CONTENT.

TIMBER SCREWS - UNLESS NOTED OTHERWISE, ALL SCREWS SHALL BE BY GRK R36 OR ROTHBLAAS T89 OR OTHER APPROVED SCREW WITH A SHANK DIAMETER OF AT LEAST 0.2", AND A THREAD DIAMETER OF AT LEAST 0.30". SCREW HOLES SHALL NOT BE FREE DRILLED UNLESS OTHERWISE NOTED, AND HAVE AT LEAST 3" OF THREAD PENETRATION INTO THE CONNECTING MEMBER.

TIMBER JOINTERY - UNLESS OTHERWISE CALLED OUT IN JOINTERY DETAILS ON THE STRUCTURAL AND TIMBER FRAME DRAWINGS, THE JOINTERY SHOULD MEET THE FOLLOWING REQUIREMENTS, AND BE DETAILED IN ACCORDANCE WITH THE TREC 1-13.

ALL PEGS SHALL BE 1" IN DIAMETER, AND MEET THE REQUIREMENTS OF TREC 1-13.

TENONS CONNECTING MEMBERS IN 8X MATERIAL AND LARGER (SMALLEST DIRECTION) SHALL BE 2" THICK AND 3' IN LENGTH WITH 3" OF RELISH. IN 6X MATERIAL, 1 1/2" THICK, 4' LONG TENONS WITH 2 1/2" RELISH SHALL BE USED. 4X AND SMALLER MATERIAL, INCLUDING BRACES (UNLESS OTHERWISE CALLED OUT) AND STRUTS, SHALL HAVE 1 1/2" THICK TENON AT LEAST 3 1/2' IN LENGTH, AND 2 1/2" OF RELISH.

WHERE TENON INTERFERENCE OCCURS, TENONS SHALL BE AS LONG AS POSSIBLE, AND OFFSET (HIGH/LOW) WHERE POSSIBLE. IN THREE WAY AND FOUR WAY CONNECTIONS, 1 1/2" THICK HARDWOOD (SPECIFIC GRAVITY EQUAL TO OR GREATER THAN THE CONNECTING TIMBERS) OR 3/4" LVL SPLINES ARE STRONGLY ENCOURAGED.

HOUSINGS FOR 6X AND LARGER STOCK SHALL BE 1" UNLESS SPECIFIED OTHERWISE. WHERE 6X FRAMING IS NOT DIRECTLY SUPPORTING THE ROOF OR FLOOR LOADS, 1/2" STUB TENONS MAY BE USED IN PLACE OF FULL 1" HOUSINGS. 4X MATERIAL, INCLUDING BRACES, SHALL BE HOUSED 1/2". BIRDS MOUTHS, REDUCTIONS, AND COPES NOT SUPPORTED BY A BEARING SURFACE SHALL NOT EXCEED MORE THAN 1/4" THE MEMBER DEPTH WITHOUT REQUIRING FURTHER REINFORCEMENT. UNLESS OTHERWISE SPECIFIED, RAFTERS AND PURLINS SHALL BE SECURED INTO THEIR HOUSINGS AND SUPPORTS WITH LOG SCREWS. (1) SCREW AT EACH END FOR 6X AND SMALLER MATERIAL, (2) SCREWS AT EACH END FOR 8X AND LARGER MATERIAL.

DOVETAIL CONNECTIONS - UNLESS OTHERWISE NOTED, ROUNDED DOVETAIL CONNECTIONS SHALL HAVE A DEPTH OF 1" AND SHALL EXTEND FOR AT LEAST 3/4" THE DEPTH AND 3/4" THE WIDTH (AT THE TOP OF FACE) OF THE CONNECTING (SUPPORTING) MEMBER. THE CONNECTIONS SHALL HAVE A CONE ANGLE OF AT LEAST 10 DEGREES AND A WEDGE ANGLE OF 15 DEGREES.

DIMENSIONAL LUMBER - ALL 2X DIMENSIONAL LUMBER SHALL BE SPRUCE-PINE-FIR NO. 1 AND 2 OR OTHER SPECIES WITH EQUIVALENT ALLOWABLE DESIGN STRENGTHS. 6X MATERIAL SHALL BE PLANED TO 1/2" TO 3/4" UNDER STATED DIMENSION. ALL SILL PLATES AND DIMENSIONAL WOOD FRAMING IN CONTACT WITH CONCRETE AND MASONRY SHALL BE PRESERVATIVE TREATED WOOD IN COMPLIANCE WITH AWP-A-U OR A NATURALLY DECAY RESISTANT SPECIES.

ENGINEERED WOOD PRODUCTS - ALL LAMINATED VENEER LUMBER (LVL) SHALL HAVE A MINIMUM ALLOWABLE BENDING STRESS OF Fb = 2,600 PSI AND A MODULUS OF ELASTICITY OF E = 2,000,000 PSI. ALL ENGINEERED WOOD PRODUCTS SHALL BE KEPT DRY DURING TRANSPORTATION AND STORAGE, AND SHALL HAVE BEEN SUCCESSFULLY EVALUATED UNDER NER 19. ALL WOOD JOISTS AND TRUSS CHORDS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S STANDARD RECOMMENDATIONS FOR BRACING, BEARING LENGTHS, STIFFENERS, SQUASH BLOCKS, KNOCK OUTS, HOLES, AND BRACING. WHERE DIMENSIONAL LUMBER ROOF TRUSSES ARE USED, THE FABRICATOR SHALL SUBMIT LAYOUT PLANS AND ENGINEERING DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.

DECKING - UNLESS OTHERWISE NOTED, ALL ROOF DECKING SHALL BE 2X6 T&G "SELECT" DOUGLAS FIR DECKING. EACH DECKING PIECE MUST BE CONTINUOUS OVER AT LEAST TWO SPANS. SECURE WITH (1) 1x4 FACE AND NAIL (1) 1x4 TOE NAILED THROUGH THE TONGUE AT EACH SUPPORT LOCATION.

STRUCTURAL SHEATHING - STRUCTURAL SHEATHING SHALL BE APA RATED AND NOT EXCEED THE SPAN RATING FOR ITS INTENDED USE, WITH A MINIMUM THICKNESS OF 3/8" FOR WALLS, 3/8" FOR ROOFS, AND 7/8" FOR FLOORS.

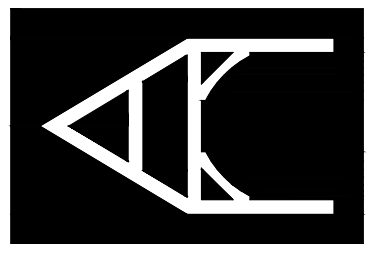
NAILS - UNLESS OTHERWISE CALLED OUT IN THE PLANS FOR MORE STRINGENT NAILING, NAILING SHALL MEET OR EXCEED THE NAILING IN "TABLE R6-02.3 (1) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS" IN THE REFERENCED BUILDING CODE. ALL NAILS SPECIFIED ARE COMMON. WHEN AIR GUN NAILING IS USED, CARE SHALL BE TAKEN TO USE TRUE COMMON NAIL EQUIVALENTS REGARDING DIAMETER (1x4 = 0.131" DIAMETER, 1x4 = 0.148" DIAMETER, 1x4 = 0.162" DIAMETER).

WOOD CONNECTORS - ALL STEEL FASTENERS OR CONNECTIONS IN CONTACT WITH PRESURE TREATED LUMBER SHALL BE ZINC COATED IN ACCORDANCE WITH ASTM A 193, MADE OF STAINLESS STEEL, OR SHOW A SIMILAR LEVEL OF CORROSION PROTECTION.

STRAPS AND HOLD DOWNS - ALL STRAPS AND HOLD-DOWNS ARE BY SIMPSON STRONG-TIE OR EQUIVALENT.

NOTES:
-BUILDER SHALL VERIFY THAT ALL CONDITIONS MEET LOCAL CODES AND BUILDING PRACTICES
-THESE BUILDING SECTIONS ARE PROVIDED TO SHOW THE TYPICAL TIMBER FRAMING CONDITIONS FOR THE SPECIFIED LOCATION. THEY GENERALLY DO NOT SHOW CONVENTIONAL CONSTRUCTION BY OTHERS SUCH AS STAIRS, INTERIOR PARTITIONS, OVER-ROOFS, ETC.
-TIMBER SIZES & LOCATIONS SHOWN ARE GIVEN AS A GENERAL REPRESENTATION OF THE RESPECTIVE FRAMES. TIMBER SIZES & HEIGHTS MAY VARY. MILL CREEK RESERVES THE RIGHT TO CHANGE TIMBER SIZES FROM THOSE SHOWN DUE TO STRUCTURAL ANALYSIS, DESIGN CONSIDERATIONS AND/OR TIMBER AVAILABILITY.

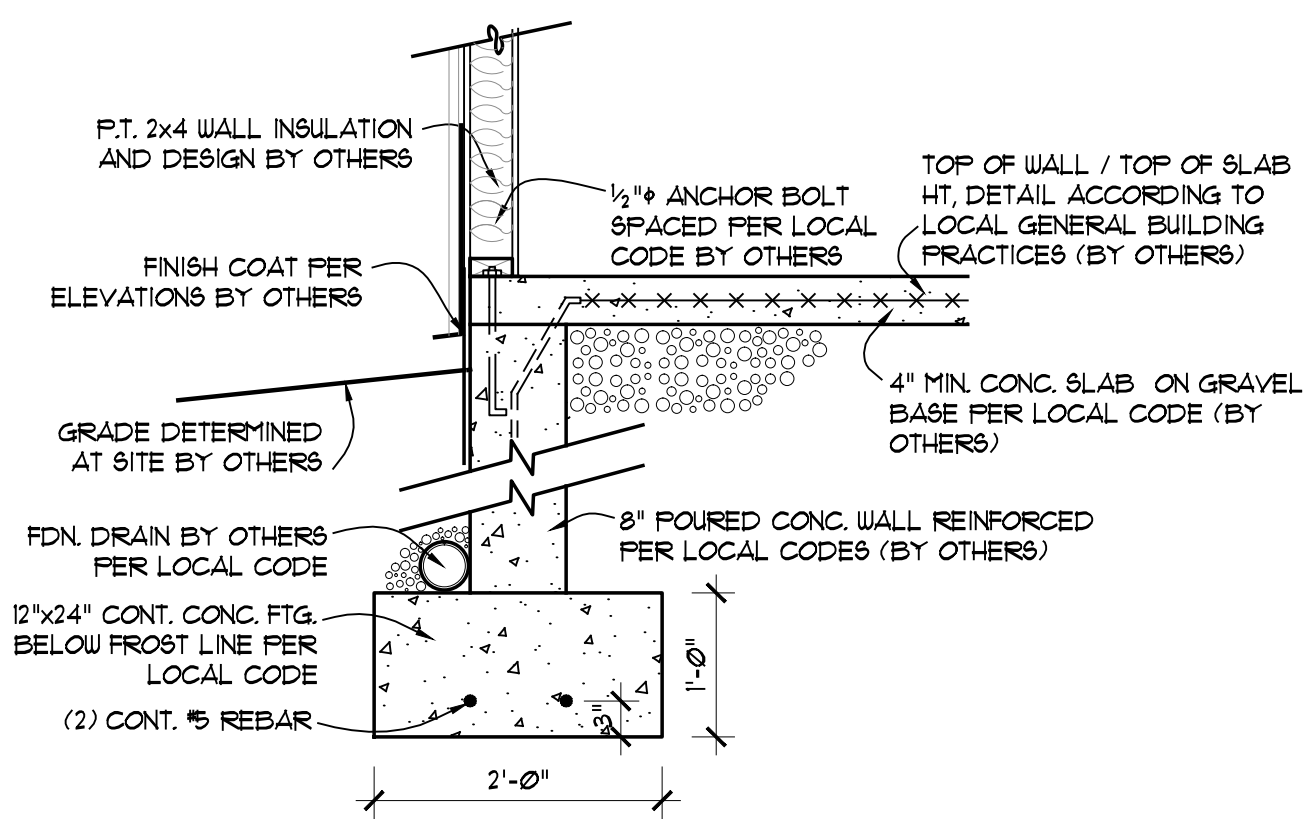
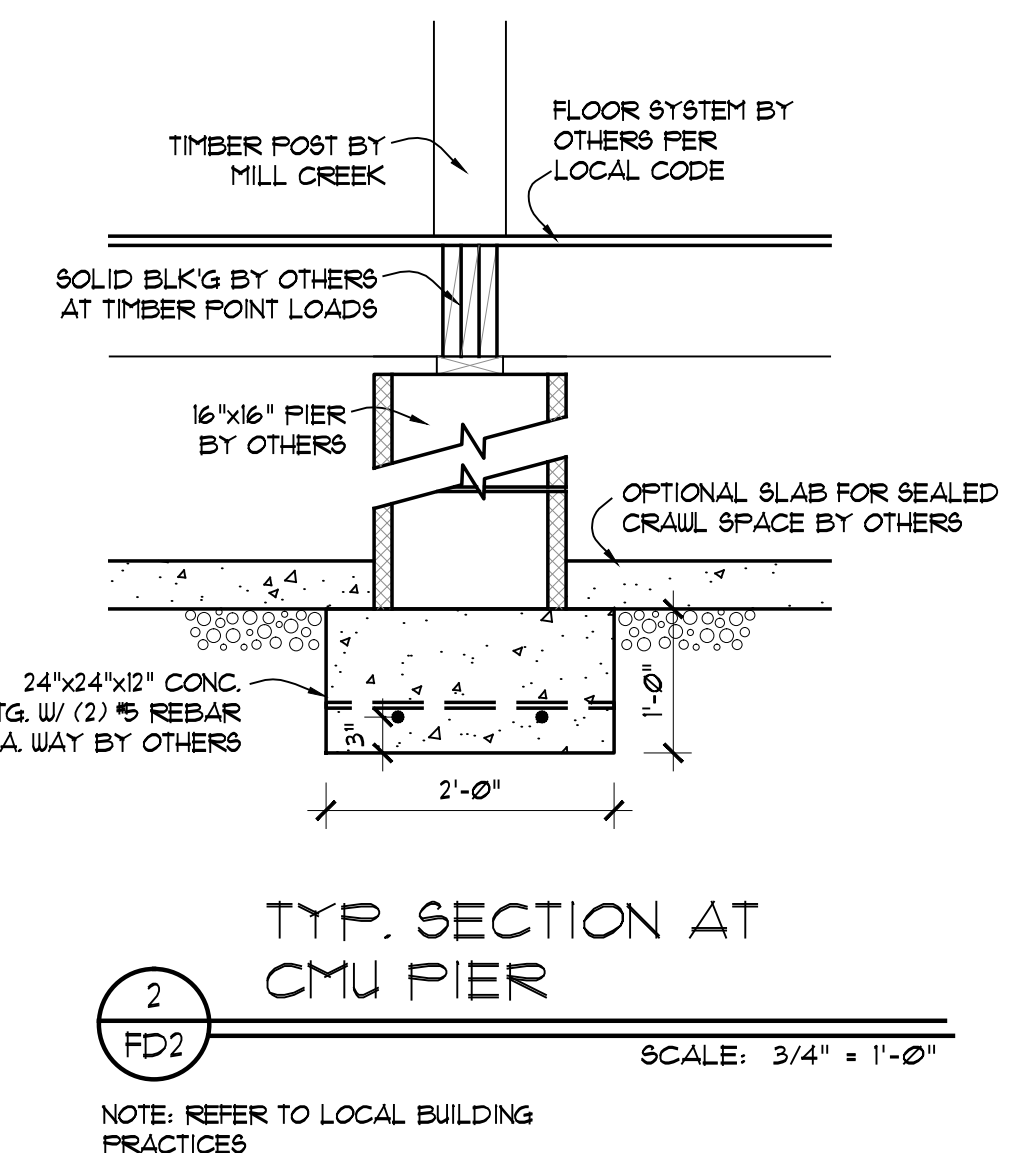
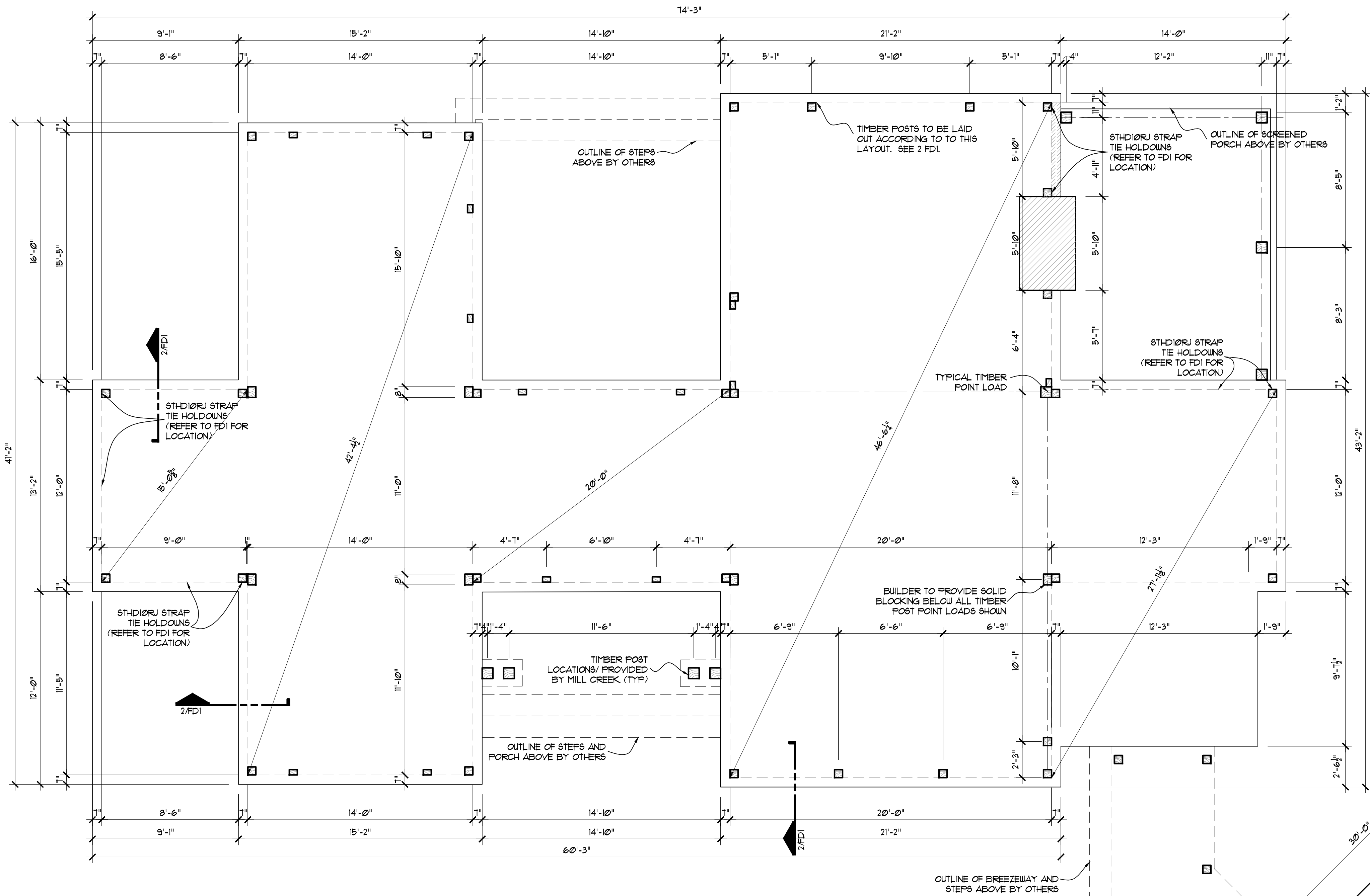
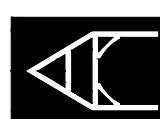
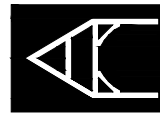
A RESIDENCE FOR: ERICK AND DONNA SPANGLER SITE LOCATION: SPEARFISH, SD 57183



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DRAWN BY:	DW
CHECKED BY:	
DATE:	08.18.21
PROJECT NO.	2103
DRAWING	BUILDING SECTIONS
REVISIONS	REV 1: 03.22.21
	REV 2: 04.14.21
	REV 3: 08.13.21
Sheet Number	A5



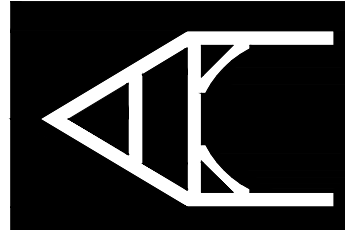
3
SECTION AT 8" STEM WALL
POURED CONC. WALL
AT GARAGE
SCALE: 3/4" = 1'-0"
NOTE: REFER TO LOCAL BUILDING PRACTICES

1
FLOOR DECK PLAN
SCALE: 1/4" = 1'-0"
SHEAR WALL/HOLDOWN PLAN:
NOTE: STANDARD WALL PANEL ASSUMED TO HAVE 1/8" SHEATHING MIN WITH 2D EN. @ 6" O.C. UNLESS OTHERWISE NOTED, MIN (2) 2X EDGE FRAMING IN PANEL @ SHEAR WALL ENDS/HOLDOWN LOCATIONS.
- 1/8" MIN SHEATHING, 2D EN. @ 4" O.C.

4" MIN. 3000 PSI CONC. SLAB W/ 6x6 (2, 1/2, 1/2) WJM ON 6 MIL. POLY OVER 6" BED OF #51 CRUSHER RUN STONE ON COMPACTED FILL AS REQ'D PER LOCAL CODE (BY OTHERS) / BUILDER TO SLOPE FLOOR AS REQ'D

OUTLINE OF CONCRETE APRON ABOVE BY OTHERS

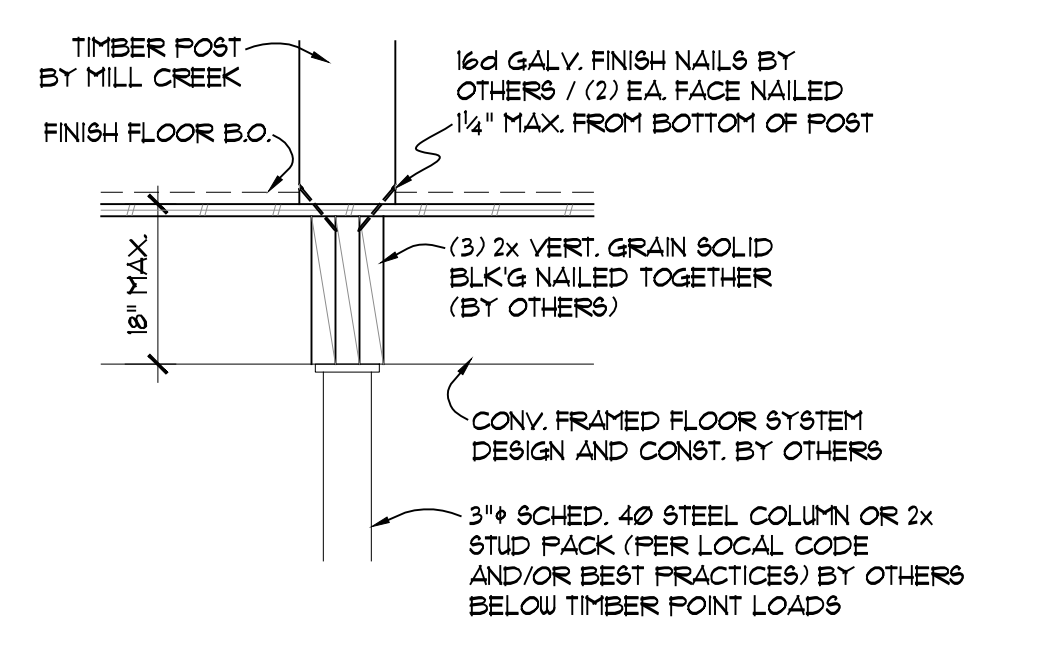
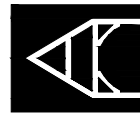
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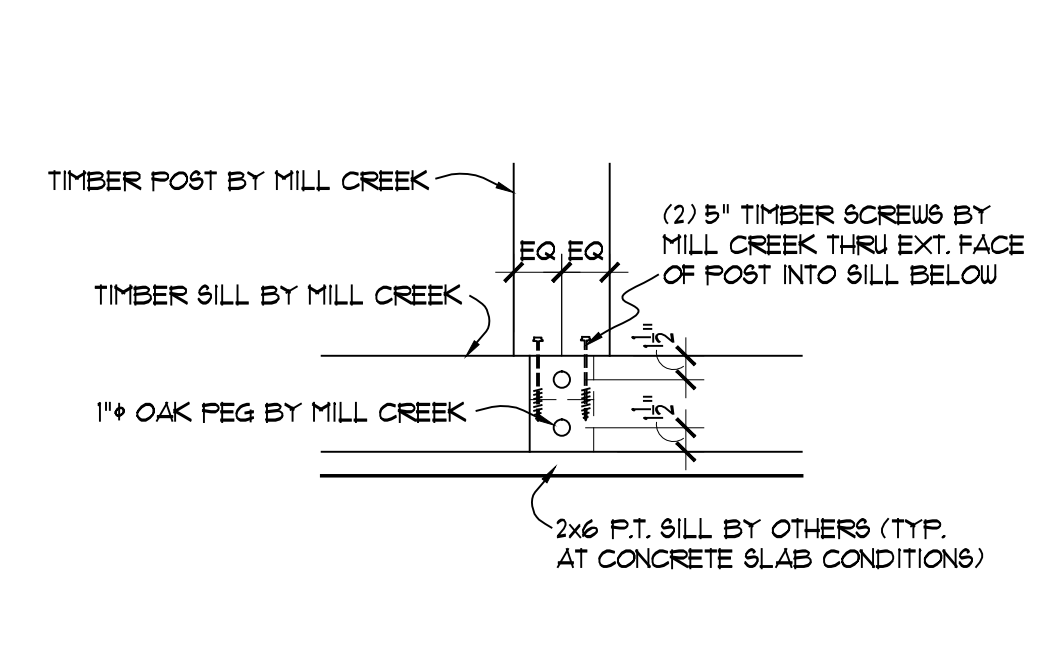
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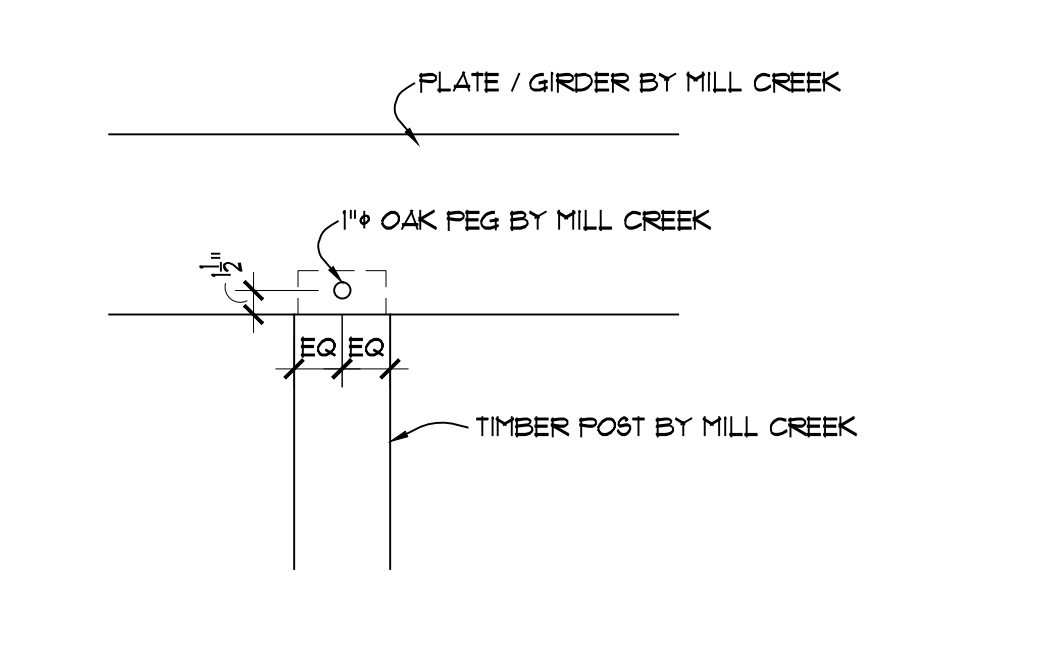
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CHECKED BY:	
DATE:	08.18.21
PROJECT NO.	2103
DRAWING	FLOOR DECK PLAN
REVISIONS	2103
REV 1:	08.18.21
Sheet Number	FD2



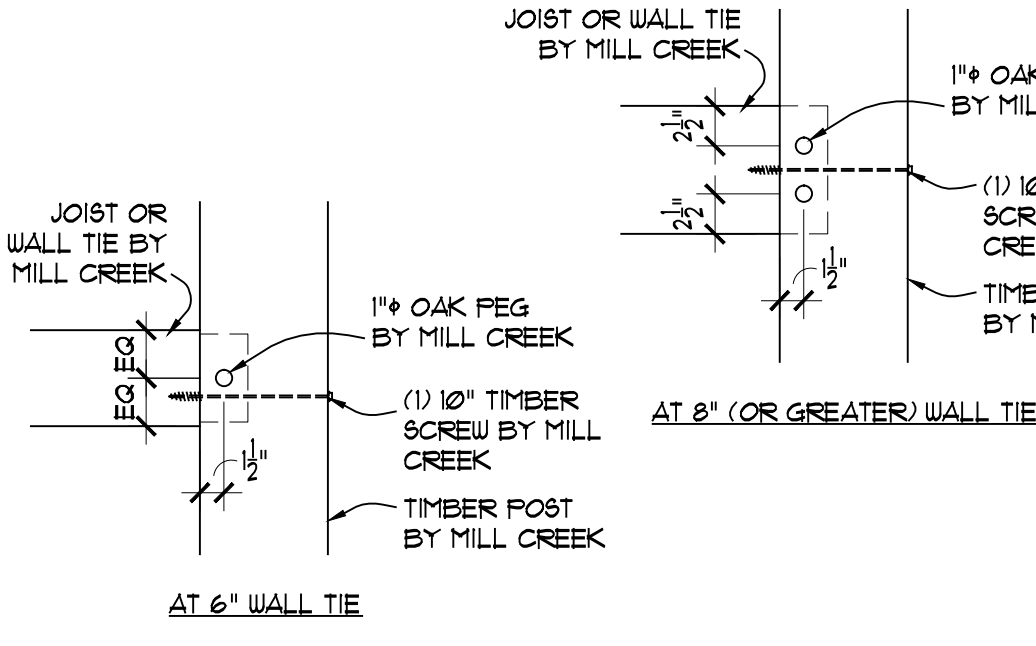
1 POST TO SUB FLOOR
DI AT INTERIOR POST SC: 1" = 1'-0"



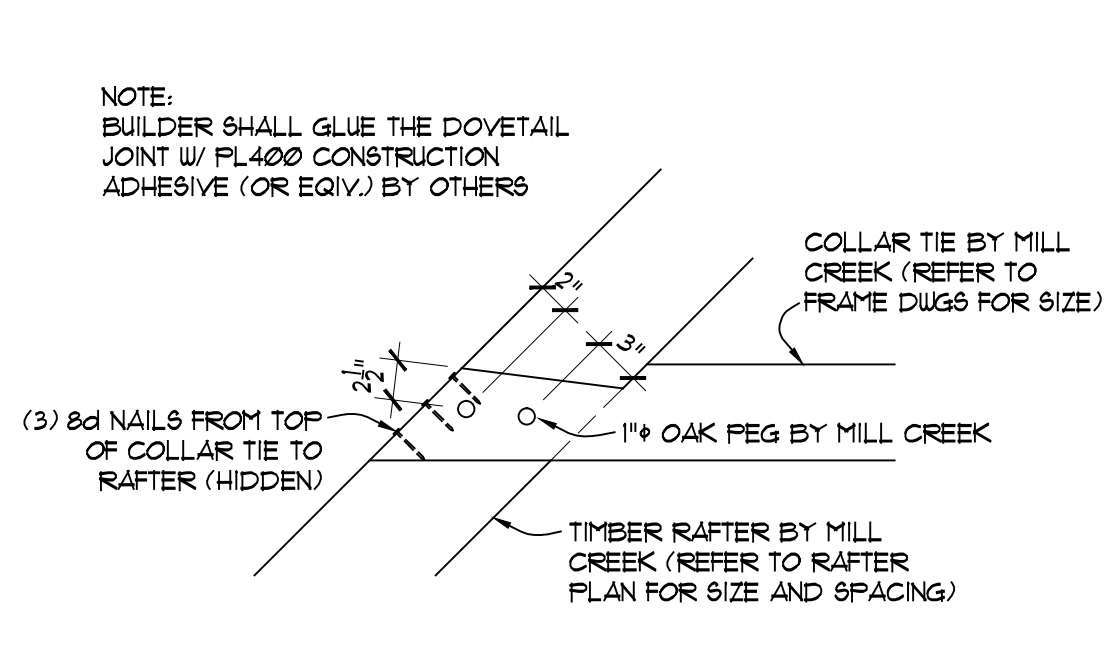
6 POST TO SILL
DI SC: 1" = 1'-0"



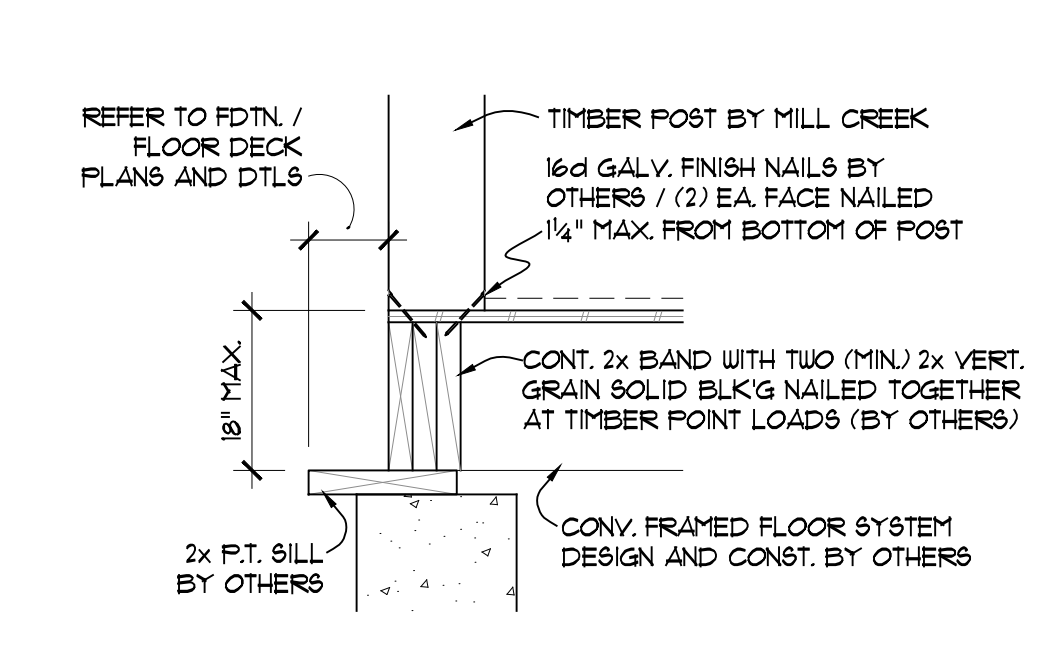
11 POST TO PLATE / GIRDER
DI SC: 1" = 1'-0"



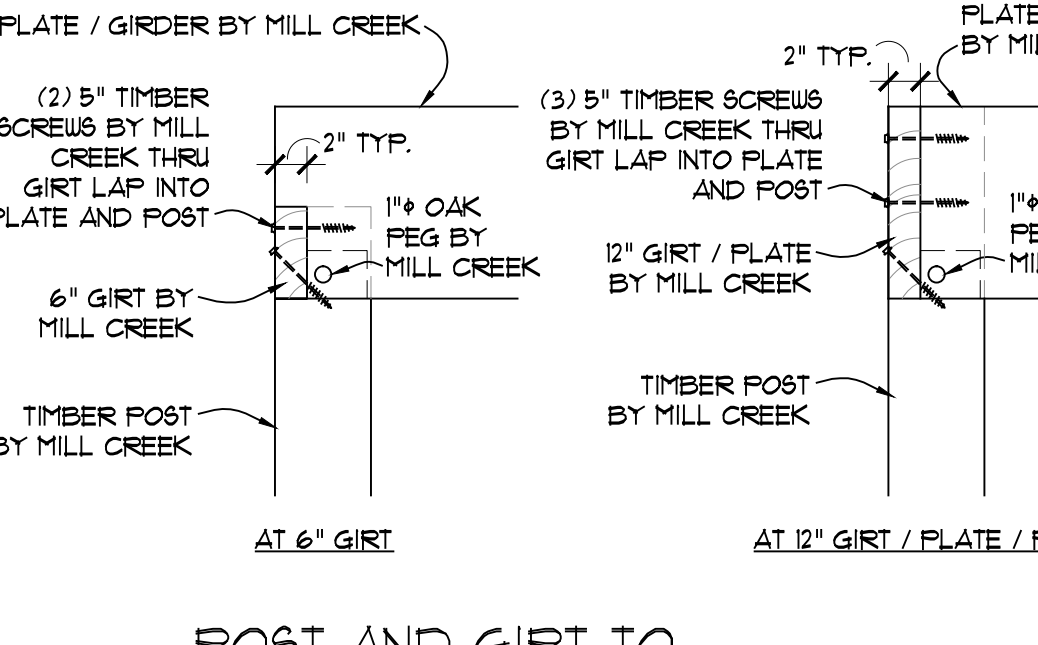
15 JOIST OR WALL TIE TO POST
DI SC: 1" = 1'-0"



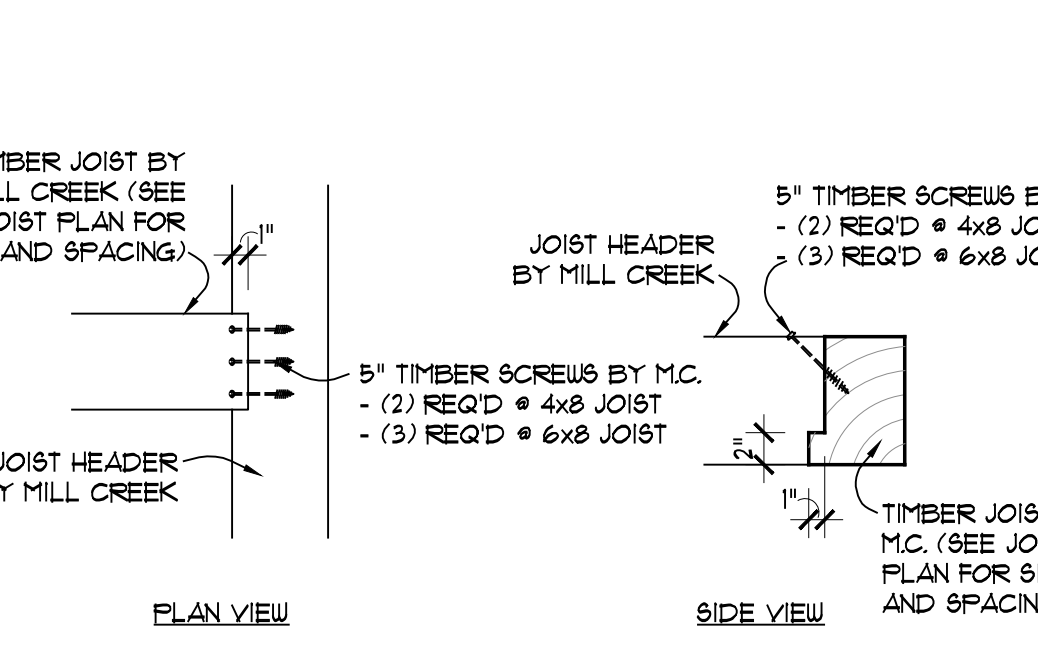
20 COLLAR TIE TO RAFTER
DI SC: 1" = 1'-0"



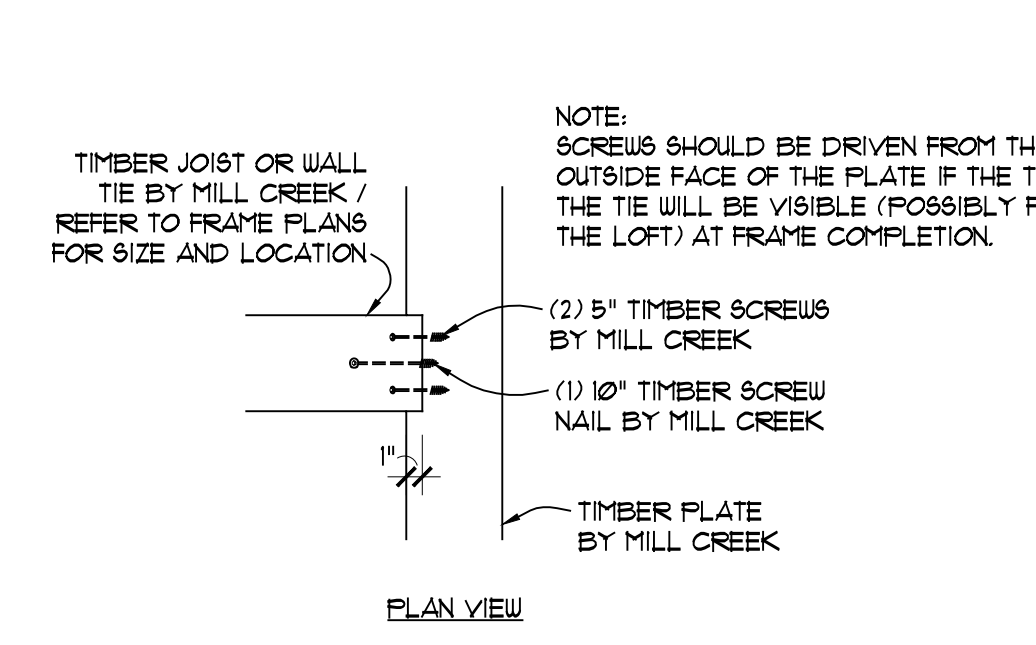
2 POST TO SUB FLOOR
DI AT PERIMETER POST SC: 1" = 1'-0"



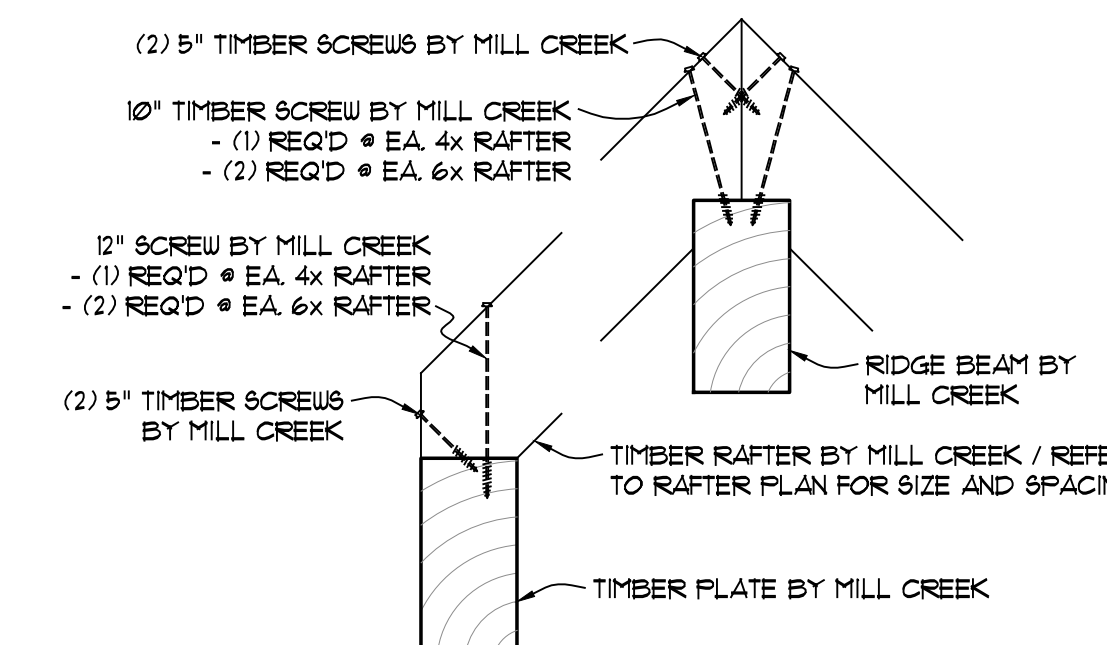
7 POST AND GIRT TO PLATE / GIRDER / PURLIN
DI SC: 1" = 1'-0"



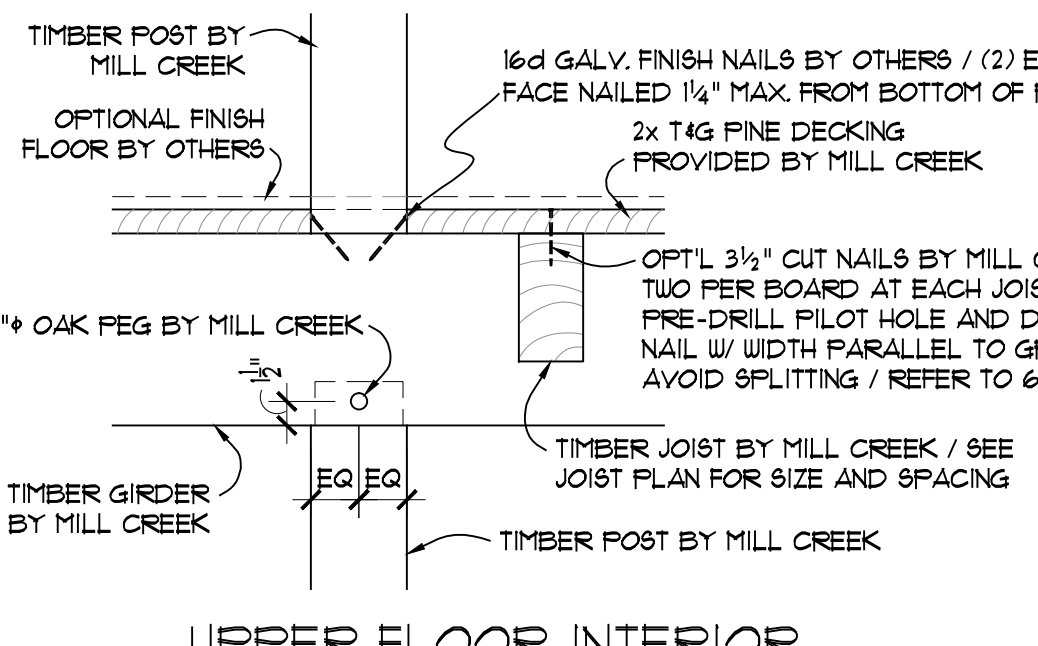
12 JOIST TO HEADER
DI SC: 1" = 1'-0"



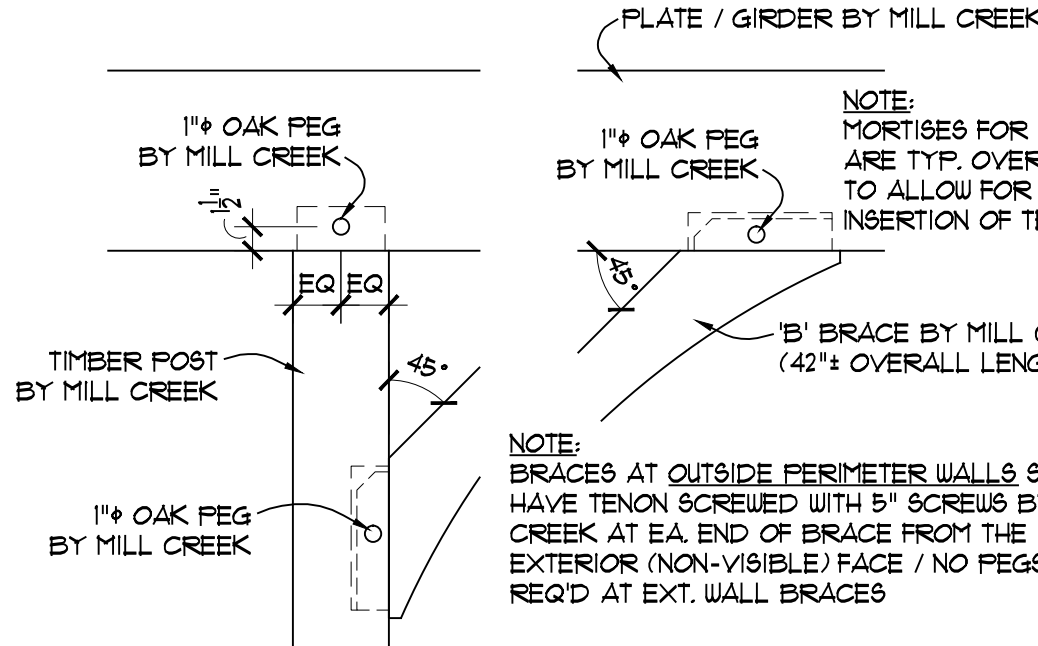
16 JOIST OR WALL TIE TO PLATE
DI SC: 1" = 1'-0"



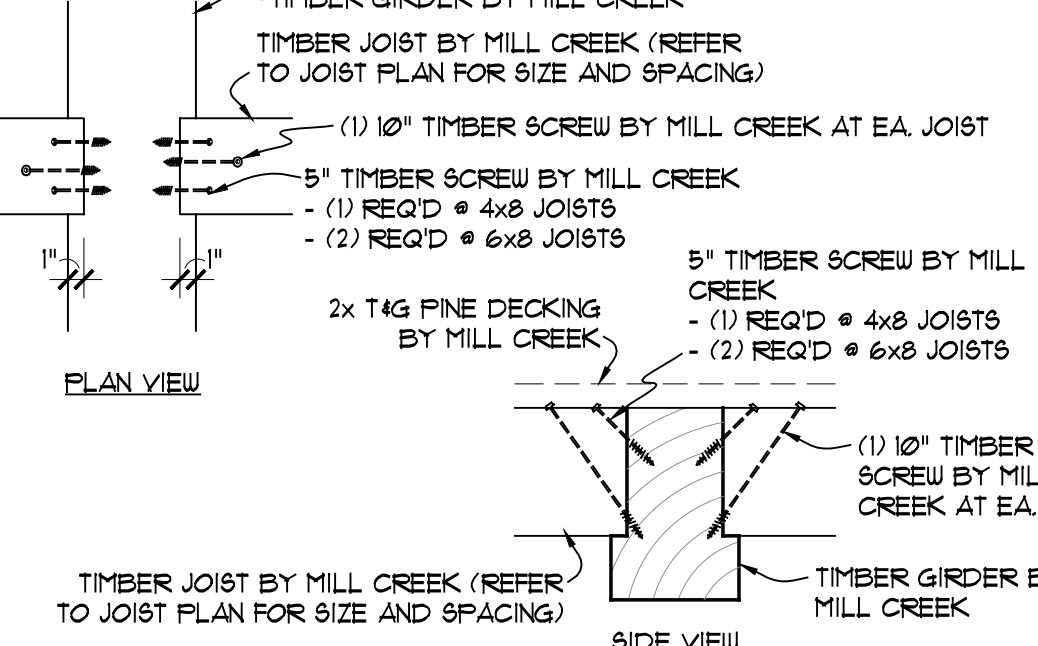
21 RAFTER AT RIDGE BEAM AND PLATE
DI SC: 1" = 1'-0"



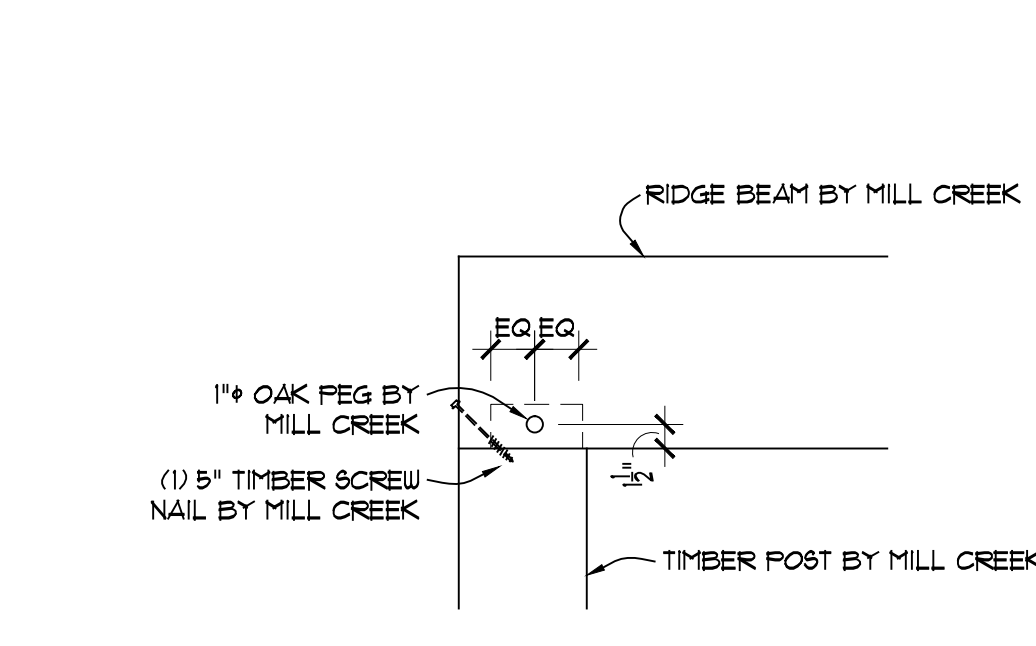
3 UPPER FLOOR INTERIOR POST TO TIMBER GIRDER
DI SC: 1" = 1'-0"



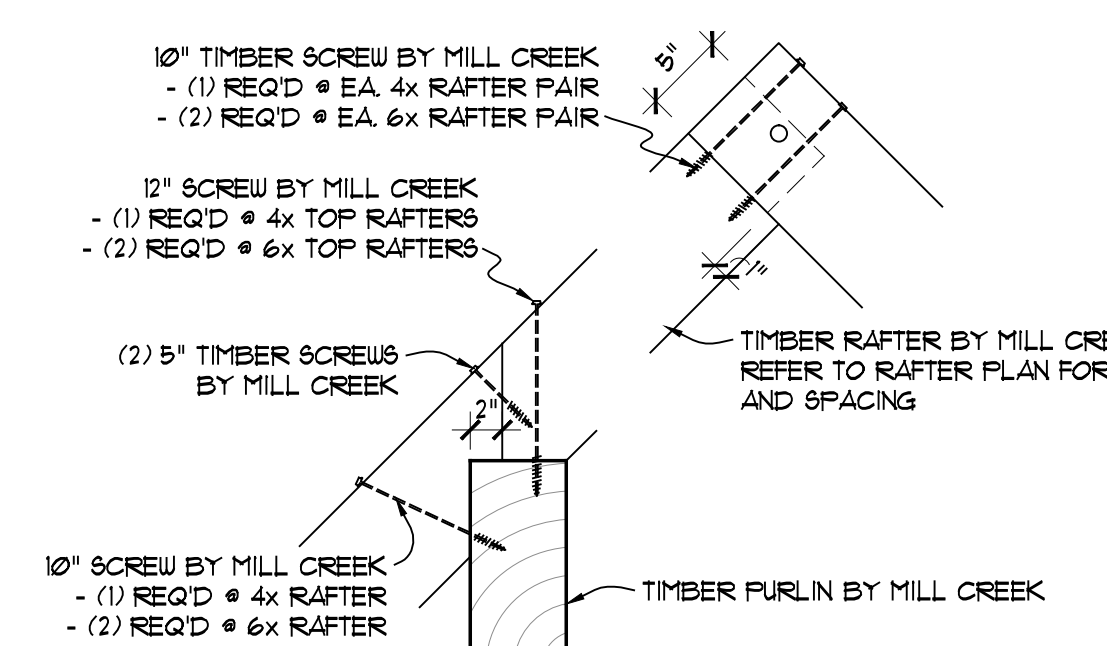
8 INT. BRACE TO POST / PLATE
DI SC: 1" = 1'-0"



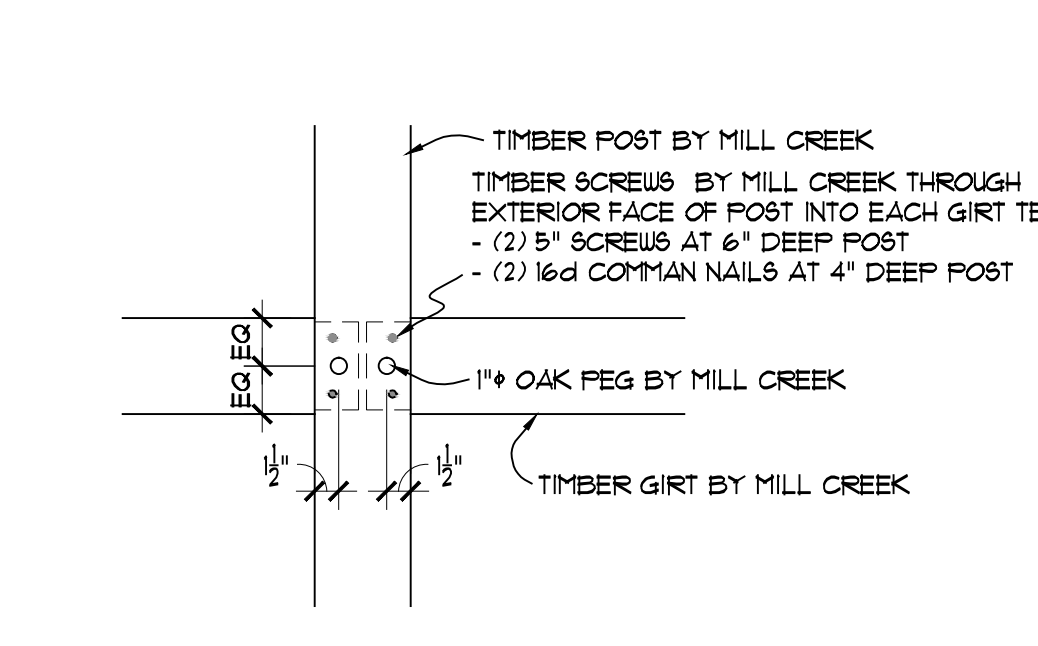
13 TIMBER JOIST TO GIRDER
DI SC: 1" = 1'-0"



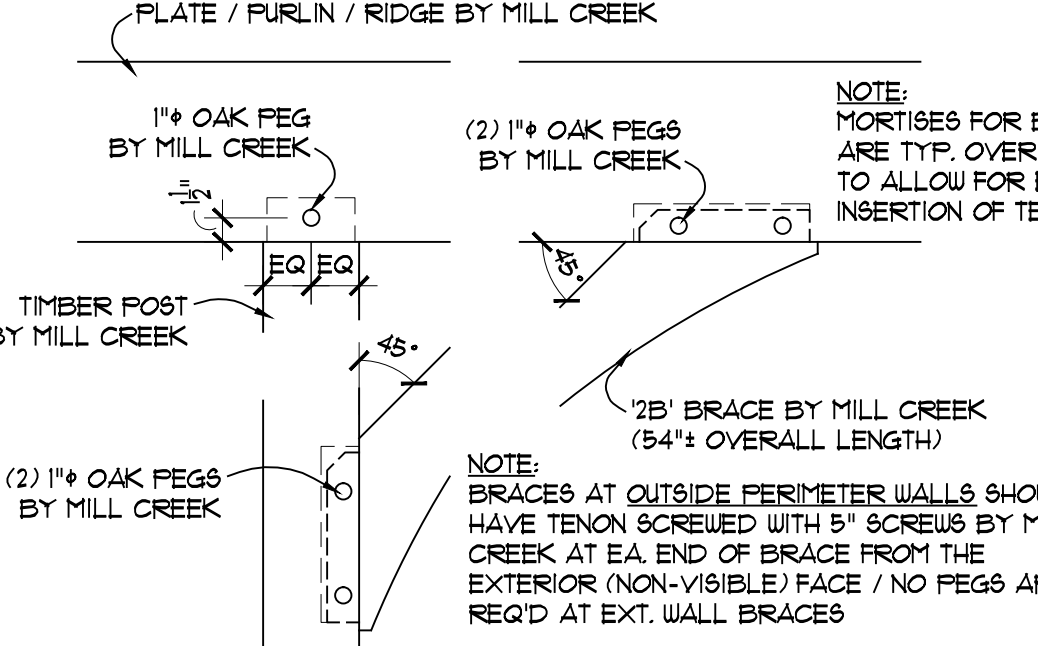
17 POST TO RIDGE BEAM
DI SC: 1" = 1'-0"



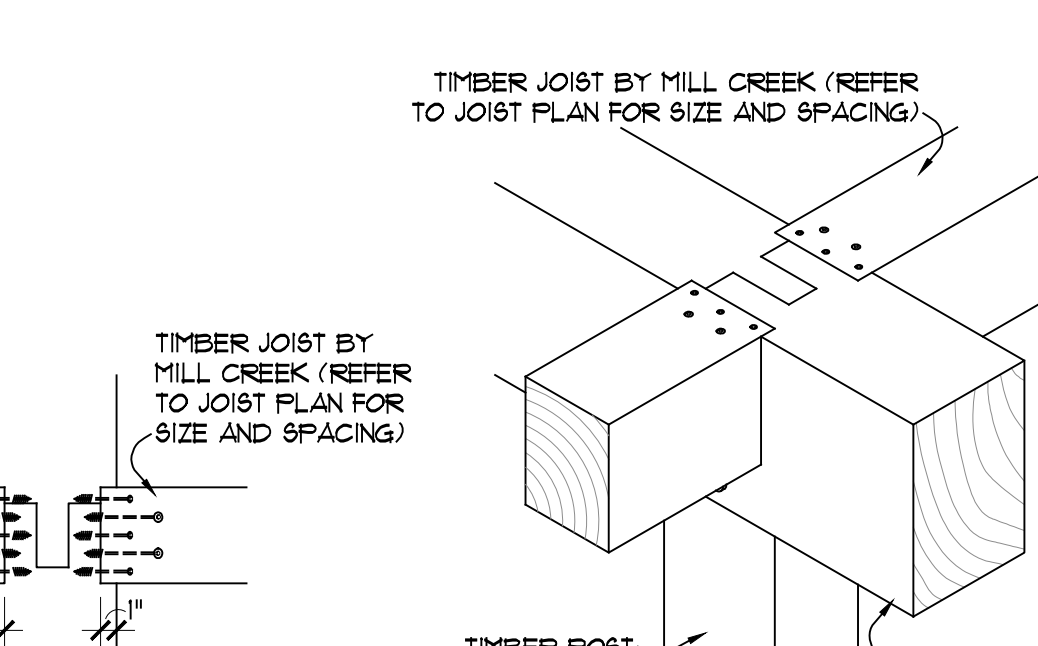
22 RAFTER AT PURLIN AND RIDGE
DI SC: 1" = 1'-0"



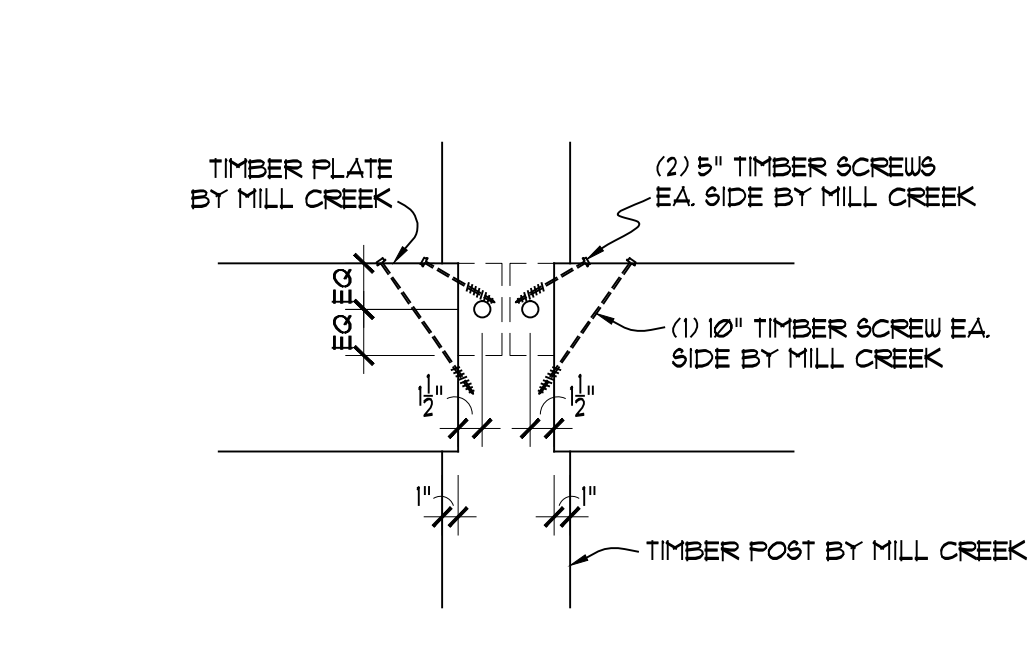
4 GIRT TO POST
DI SC: 1" = 1'-0"



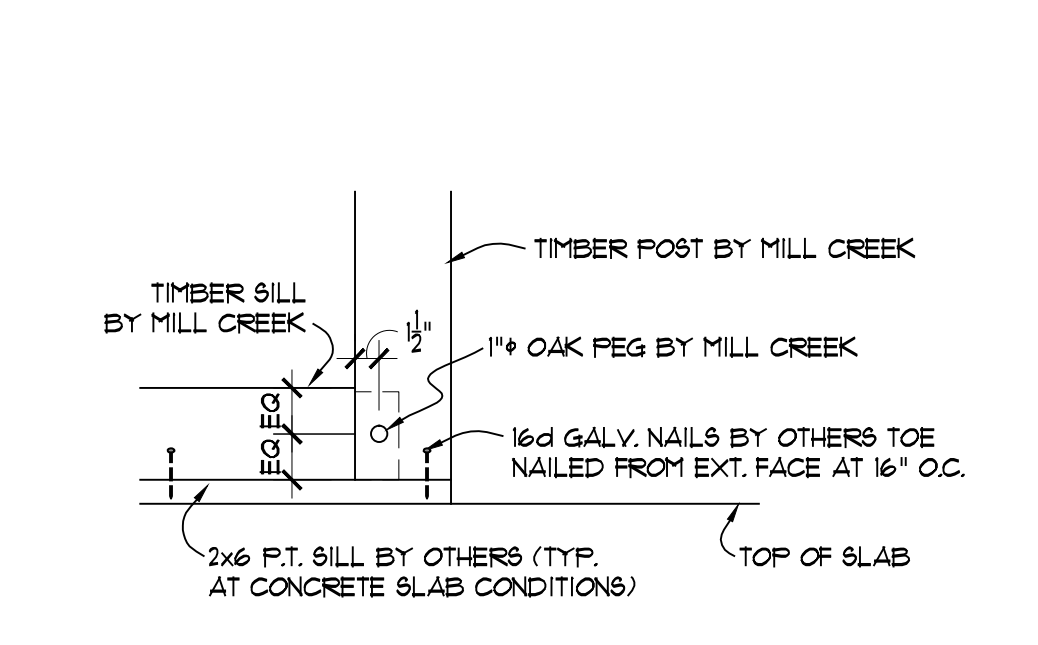
9 INT. 2x BRACE TO POST / PLATE
DI SC: 1" = 1'-0"



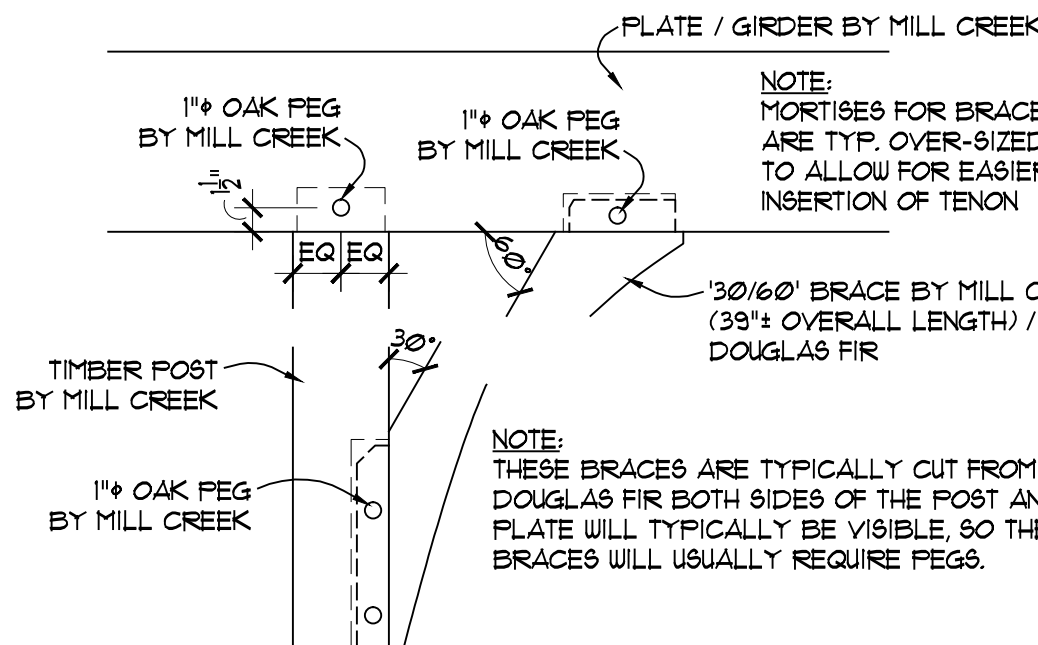
14 TIMBER GIRDER TO POST
DI SC: 1" = 1'-0"



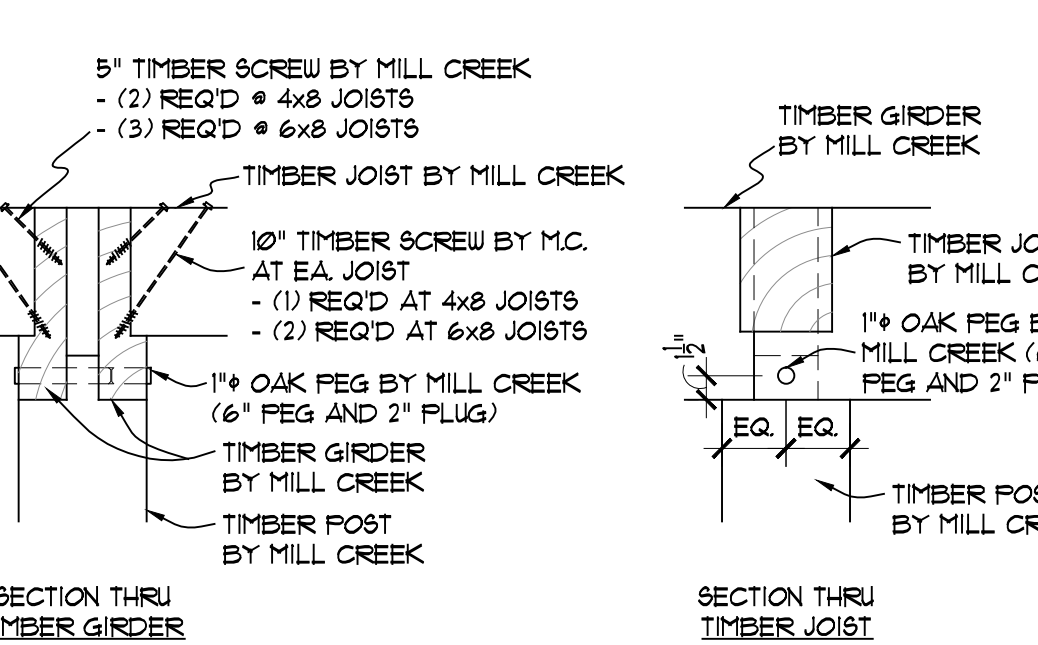
18 PLATE AT MID POST
DI SC: 1" = 1'-0"



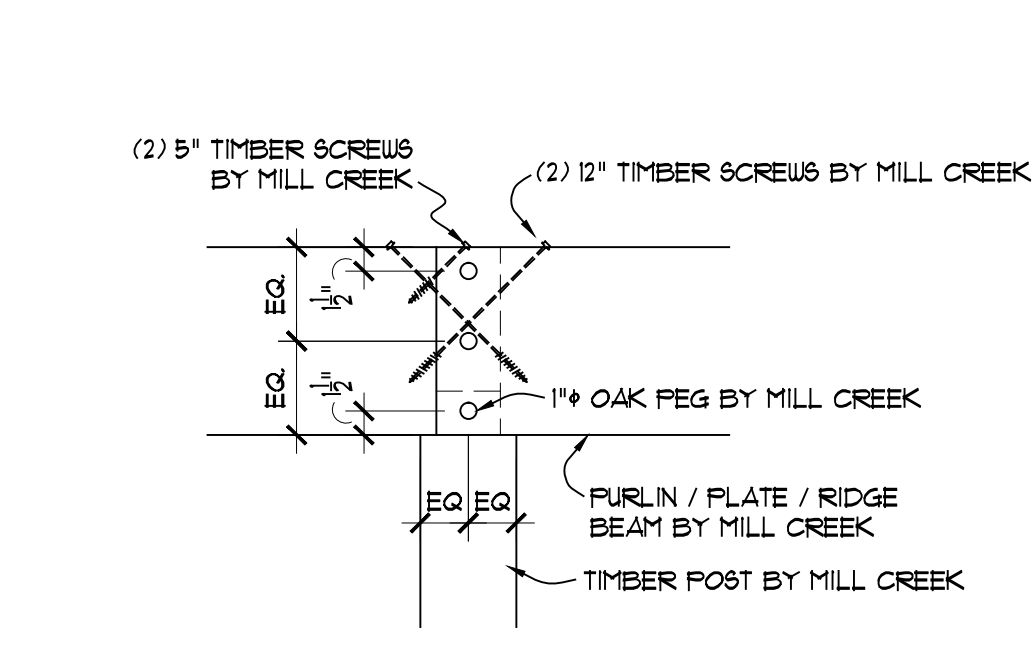
5 DOOR POST TO SILL
DI SC: 1" = 1'-0"



10 30/60 BRACE TO POST / PLATE
DI SC: 1" = 1'-0"



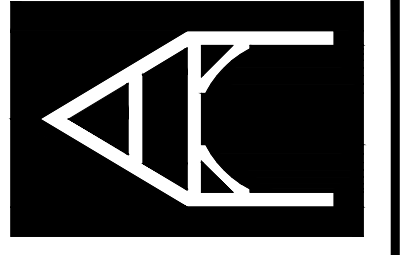
14 TIMBER GIRDER TO POST
DI SC: 1" = 1'-0"



19 POST TO PLATE FINGER JOINT
DI SC: 1" = 1'-0"

GENERAL NOTES:
- BUILDER OR ASSEMBLY CREW SHALL STRICTLY FOLLOW ALL NAILING & PEGGING DETAILS AS PROVIDED BY MILL CREEK POST & BEAM IN THE CONSTRUCTION DOCUMENTS AND CONST. GUIDELINES. FAILURE TO DO SO SHALL VOID ANY & ALL STRUCTURAL WARRANTIES. REMEDIES FOR SUCH FAILURE SHALL BE THE WHOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND/OR OWNER.
- WHEN DRILLING PEG HOLES USE THE 1" DRILL BIT THAT IS PROVIDED WITH YOUR MILL CREEK PACKAGE. AT AREAS WHERE THE PEG HOLE WILL BE SEEN FROM BOTH SIDES IT IS VERY IMPORTANT THAT THE ASSEMBLER BORE THROUGH THE TIMBER UNTIL THE TIP OF THE BIT JUST BEGINS TO EXIT THE OPPOSITE FACE. AT THIS POINT, STOP DRILLING AND FINISH THE HOLE FROM THE OPP. SIDE. THIS WILL PREVENT BLOWOUT OF THE GRAIN ON THE EXITING FACE.
- SPECIAL CONDITIONS MAY REQUIRE ADD'L FASTENERS (REFER TO FRAME DRAWINGS).
- ACTUAL SIZE OF TIMBERS MAY VARY FROM THESE DETAILS. REFER TO FRAME DRAWINGS FOR SIZE, SPACING, ETC.
- ALL METAL FASTENERS (NAILS, SCREWS, ETC.) ARE TO BE IN LOCATIONS THAT WILL BE HIDDEN FROM VIEW ONCE THE PROJECT IS COMPLETED (EXCEPT 3/8" TREMPONT CUT NAILS WHEN 2x8 T&G FINE DECKING IS INTENDED TO BE THE FINISH FLOOR MATERIAL).
- IF THERE ARE ANY QUESTIONS REGARDING FASTENER DETAILS, OR IF ANY FURTHER CLARIFICATION IS REQUIRED, PLEASE CALL MILL CREEK POST & BEAM AT (828) 749-8000 FOR TECHNICAL ASSISTANCE.

NOTE:
ALL PEG HOLES THROUGH POSTS, PLATES, ETC. WILL BE PRE-DRILLED BY MILL CREEK. HOWEVER FOR OPTIMAL FIT THE DRILLINGS MUST BE COMPLETED THROUGH THE INTERIOR TENONS ON SITE. A 1" DRILL BIT WILL BE PROVIDED BY MILL CREEK FOR THIS PURPOSE.



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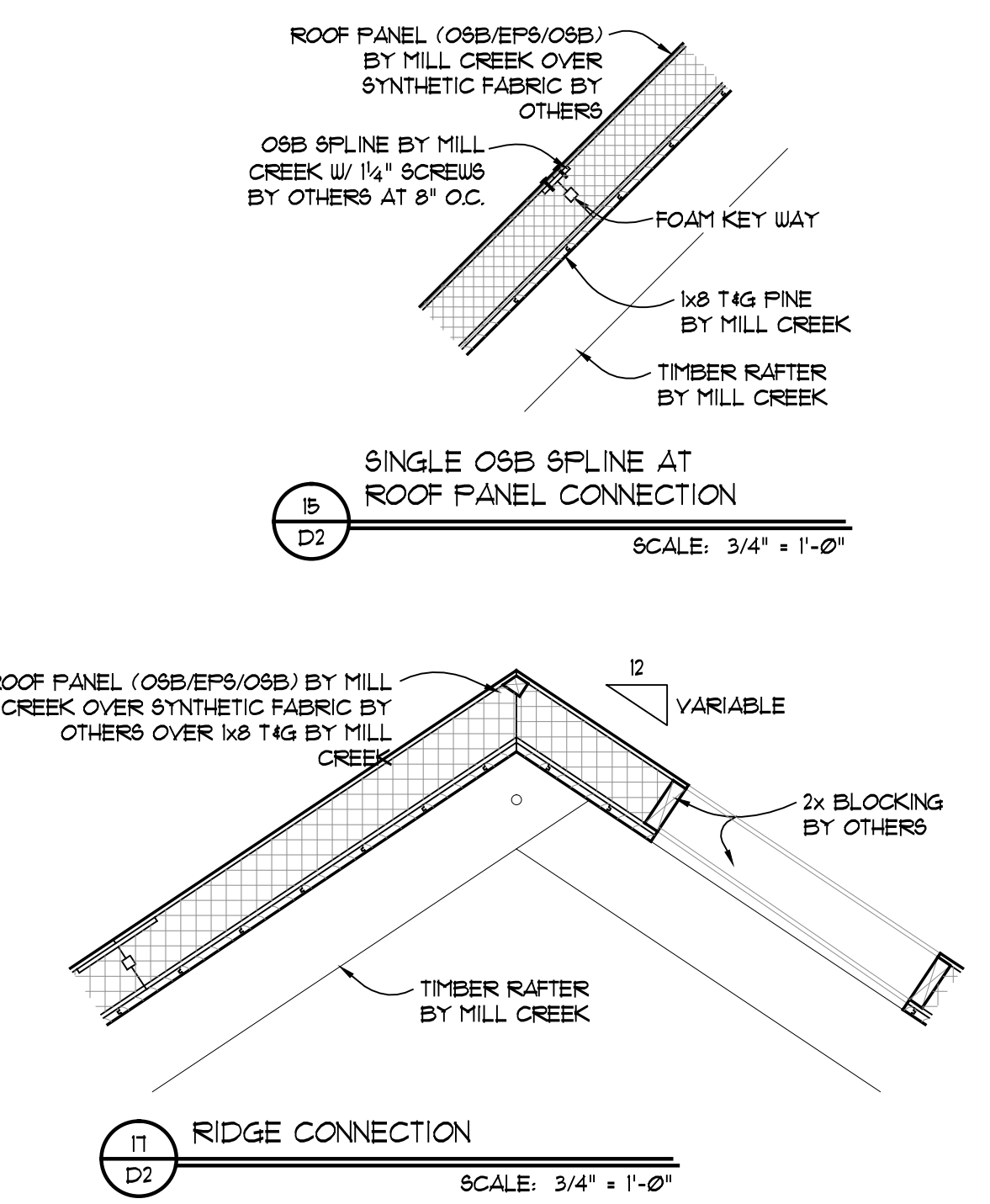
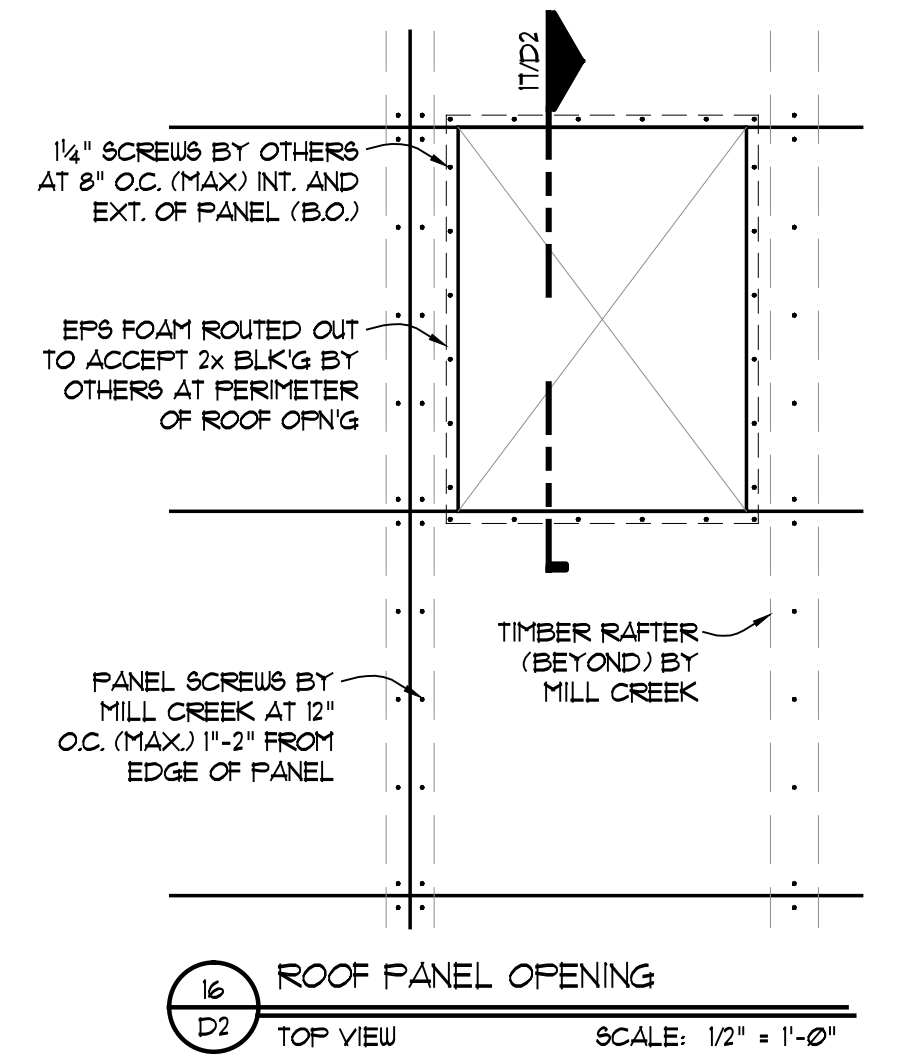
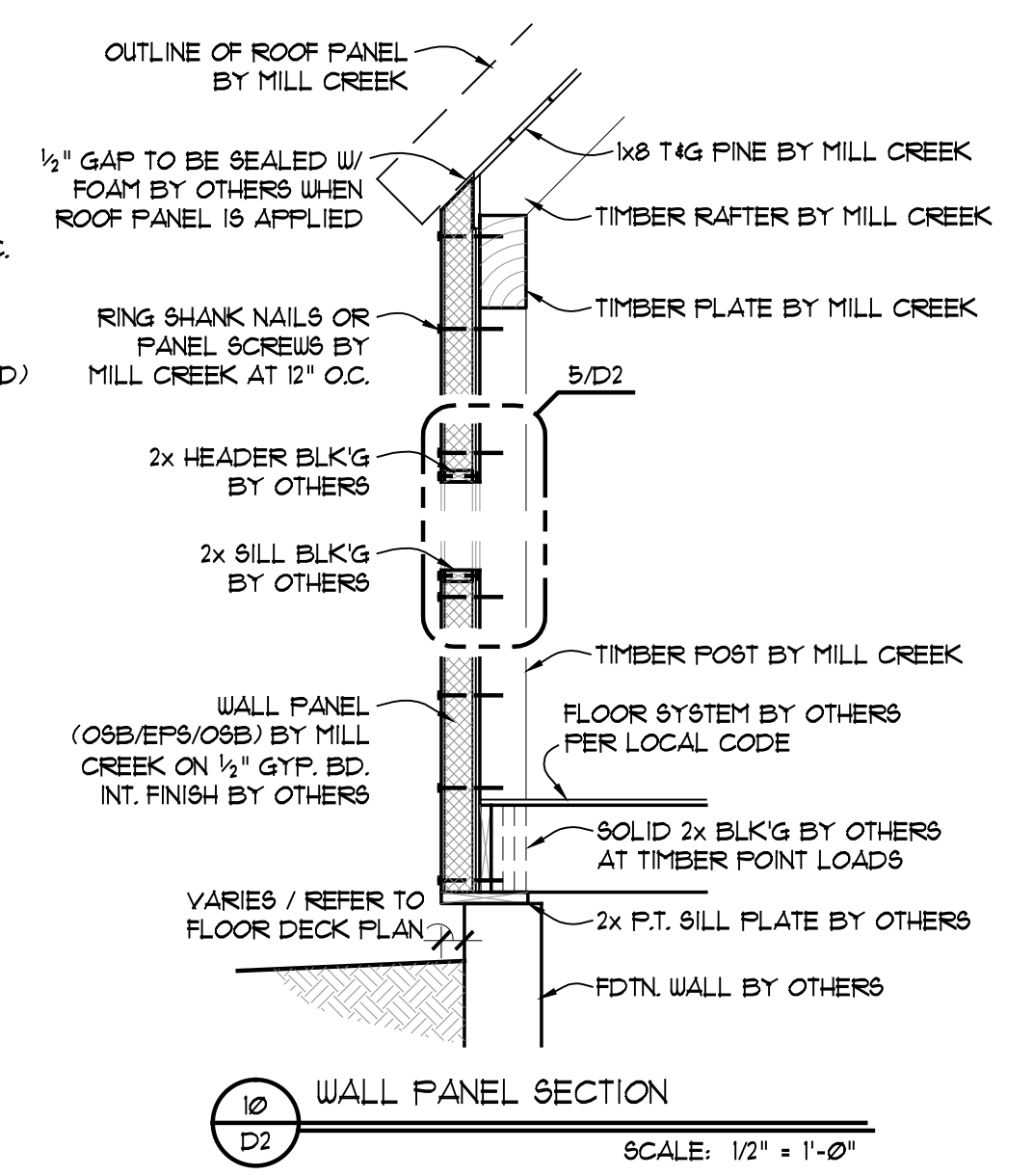
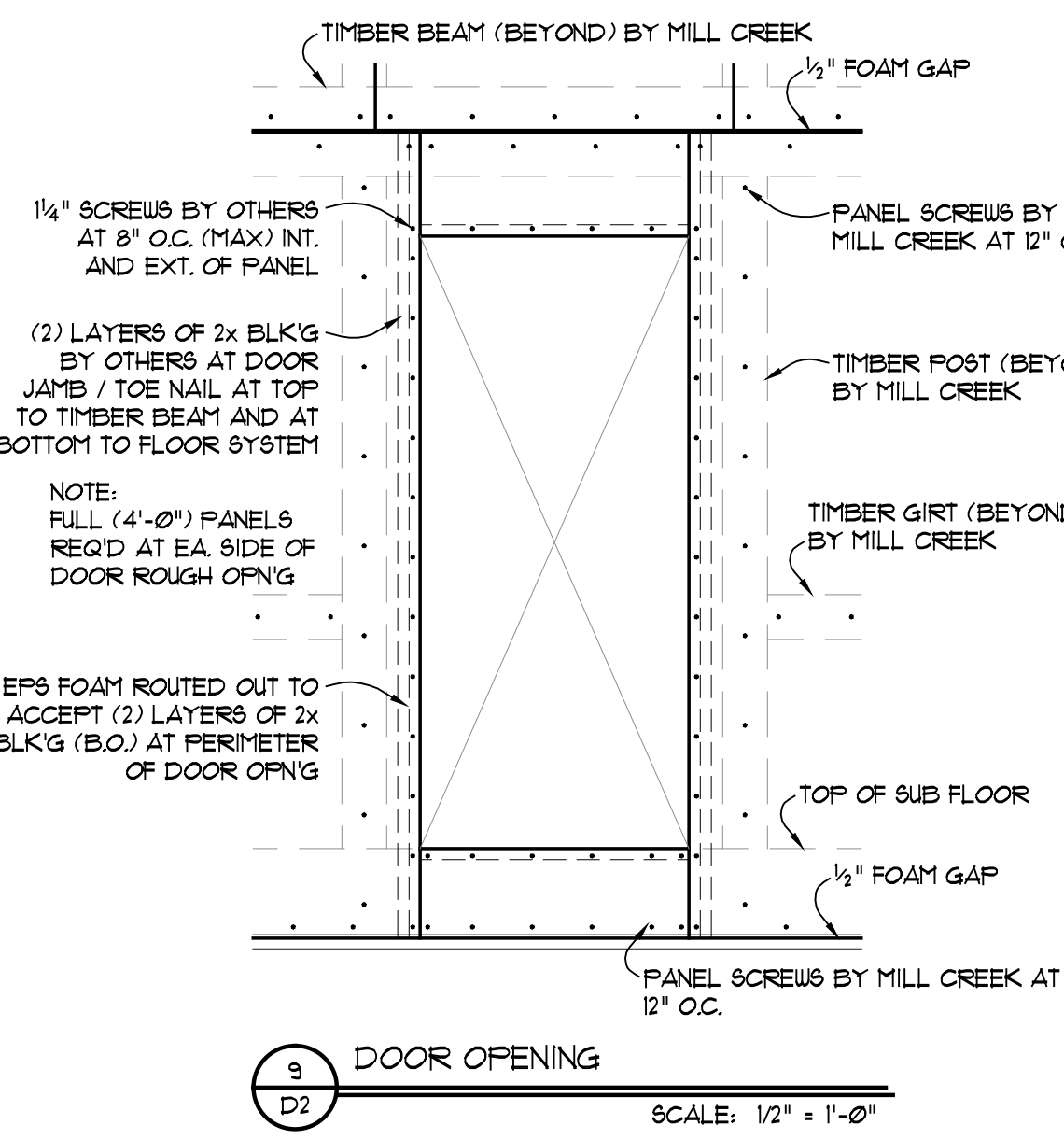
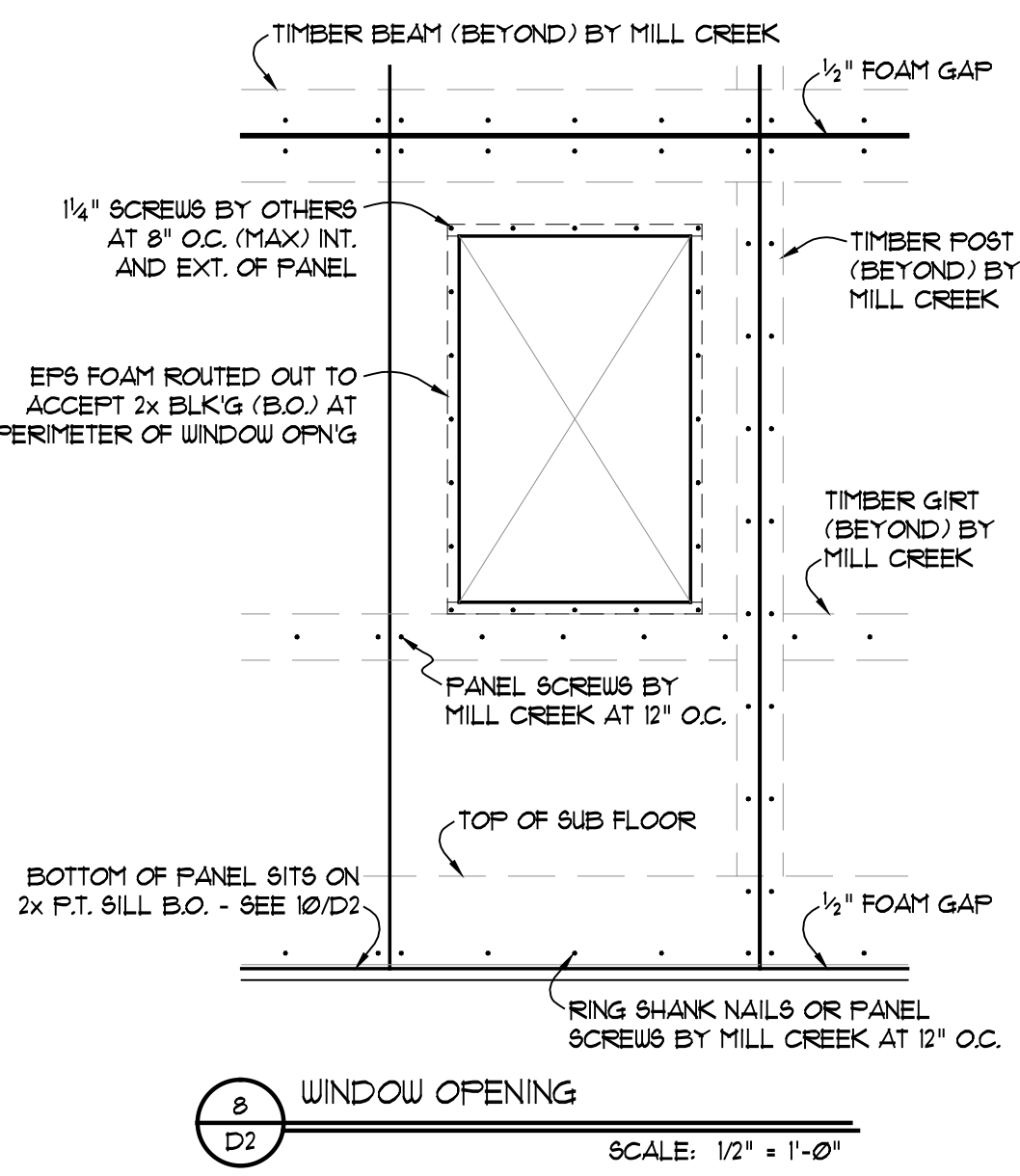
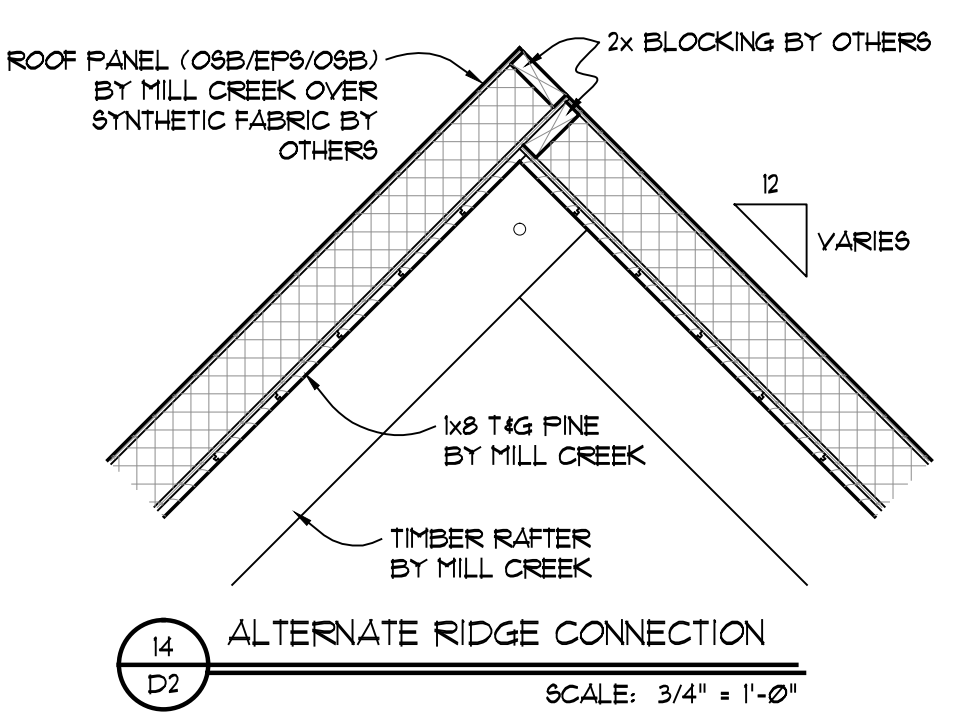
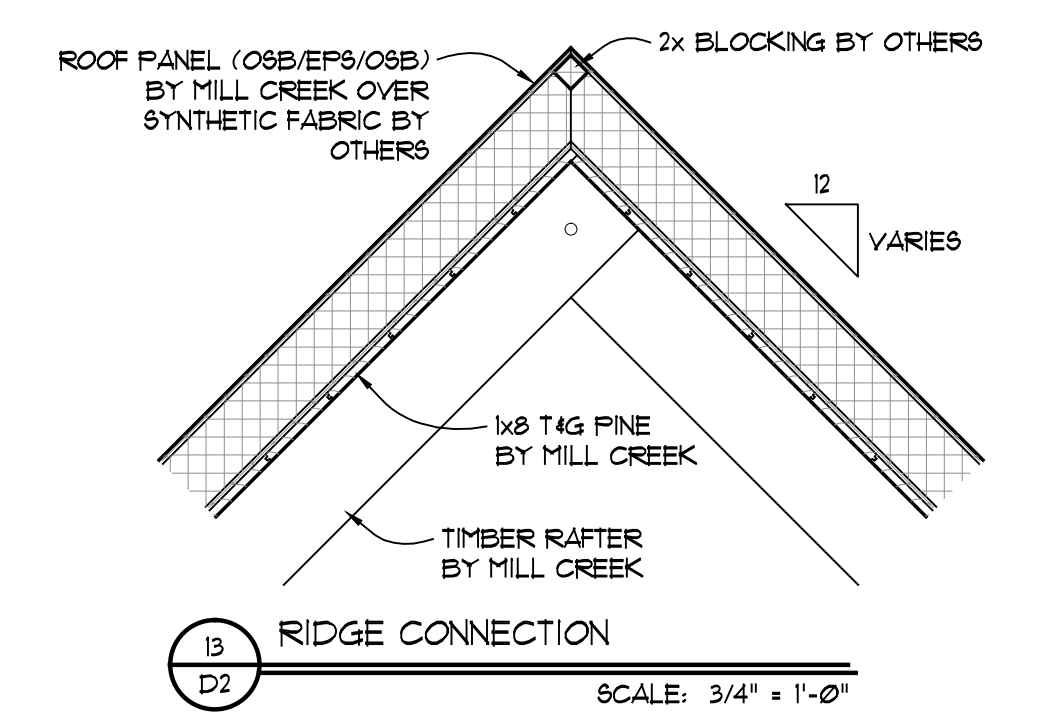
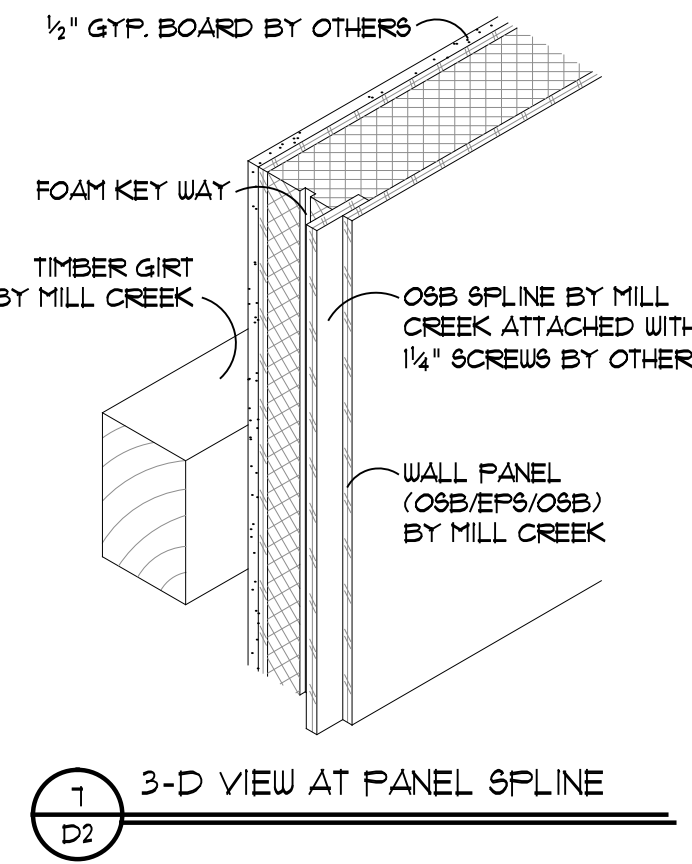
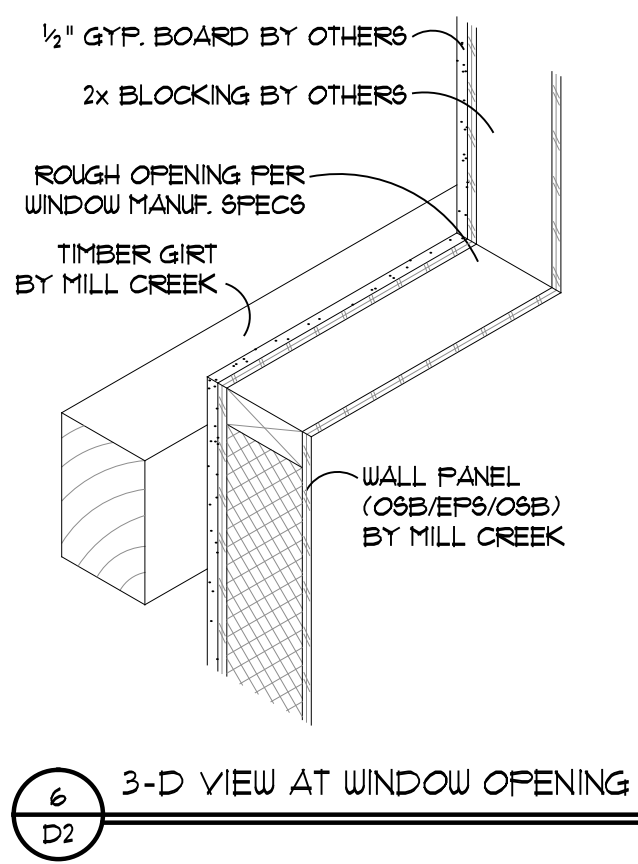
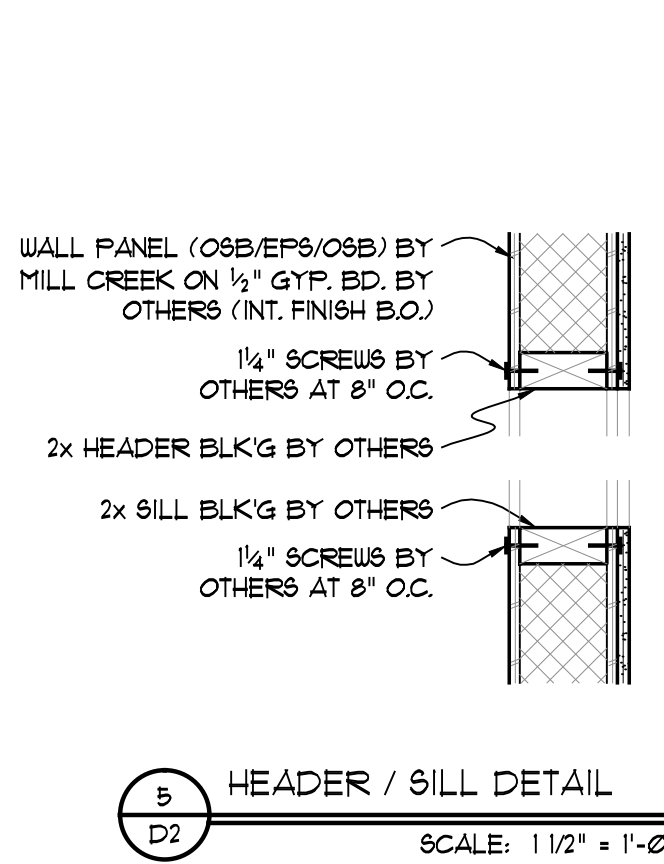
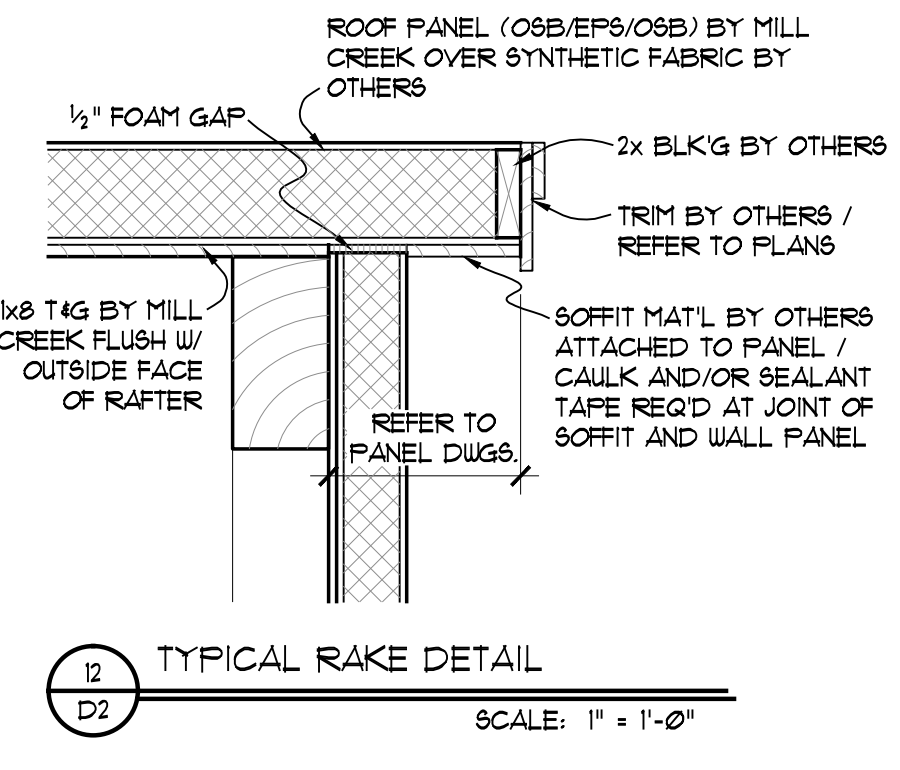
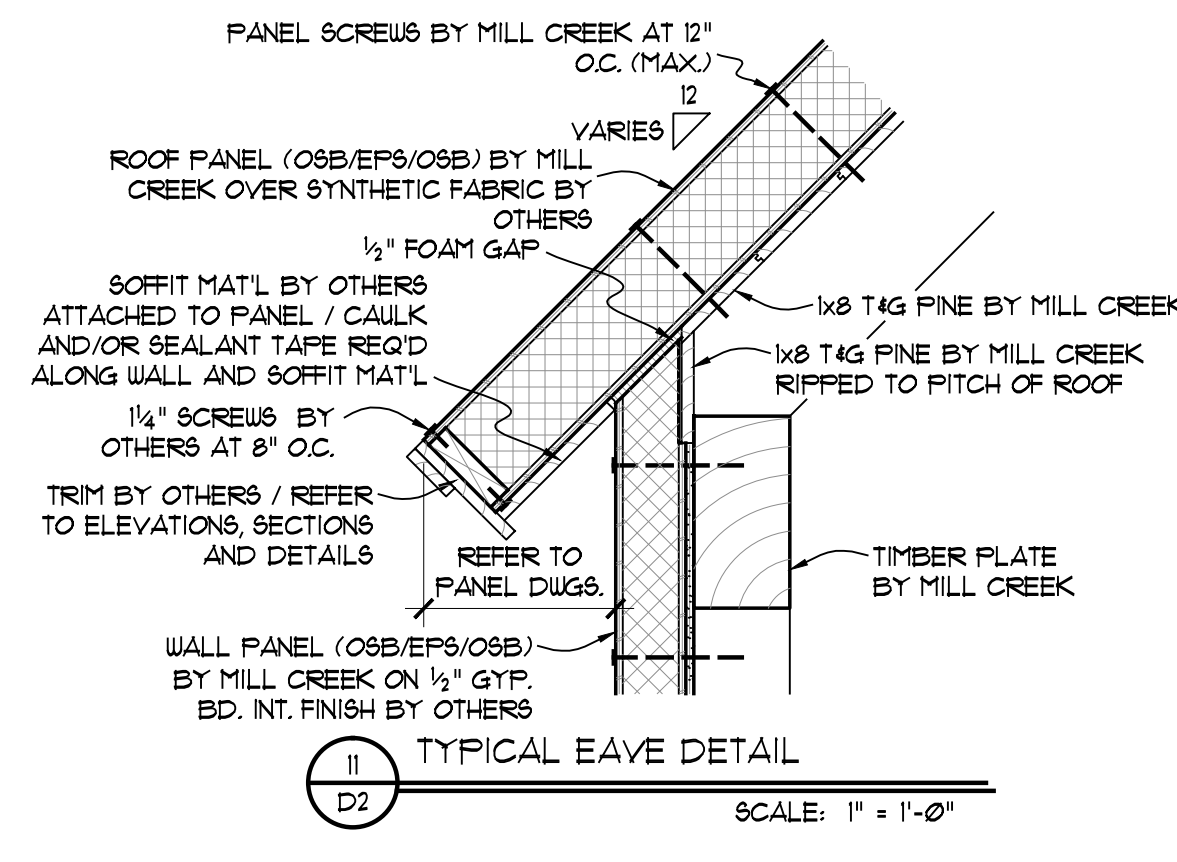
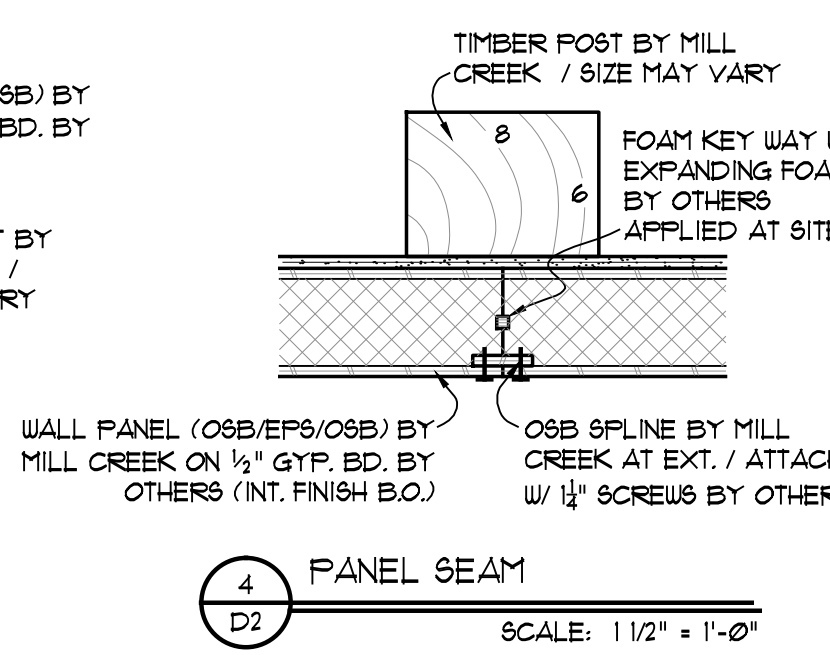
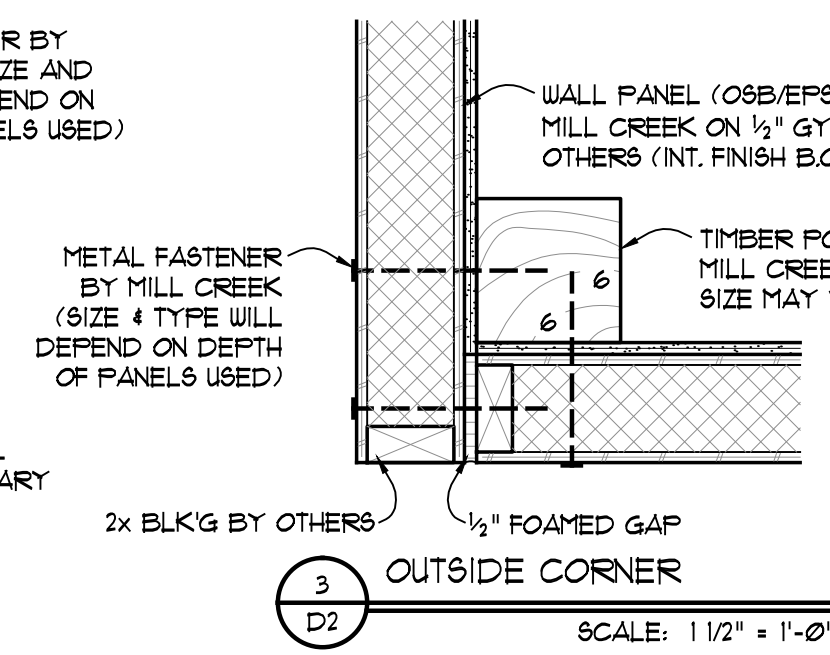
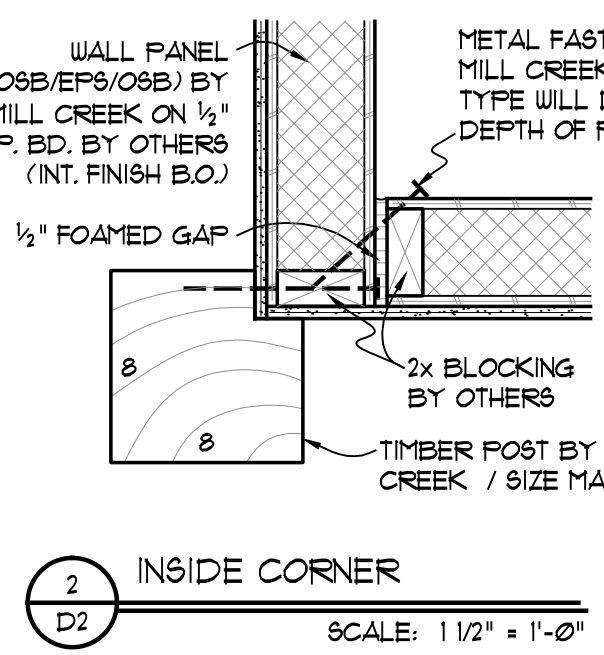
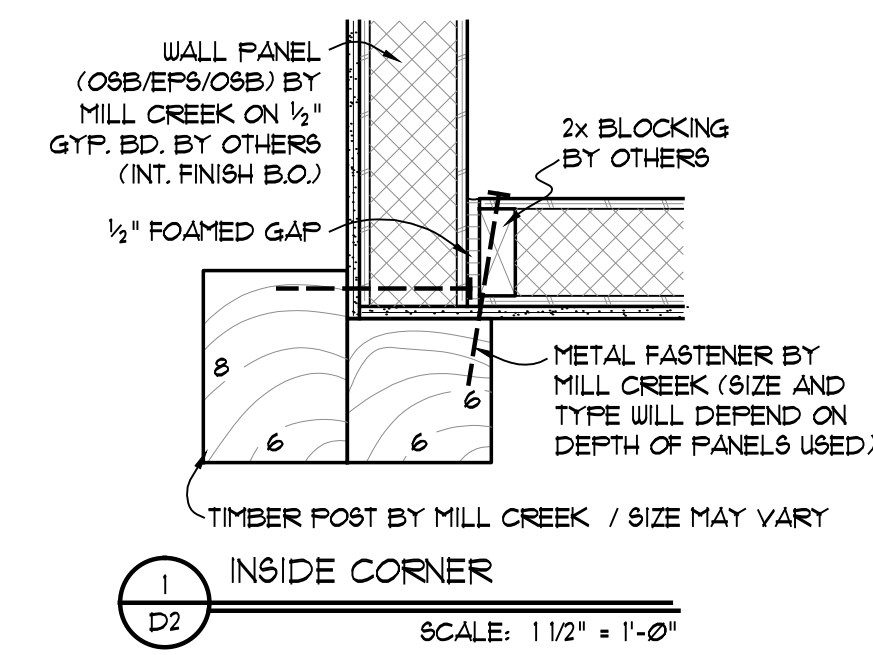
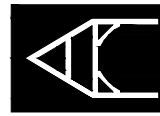
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WALL PANEL APPLICATION NOTES:

- WHEN PANELS ARRIVE AT SITE ALL STACKS OF PANELS SHOULD BE PLACED UPON BLOCKING ON LEVEL GROUND TO PREVENT TWISTING. PANELS CAN WITHSTAND SEVERAL WETTING AND DRYING CYCLES. IT IS THE RESPONSIBILITY OF THE BUILDER TO PROVIDE PROTECTION FOR THE PANELS FROM THE WEATHER.
- APPLY GYP. BD. TO FRAME W/ DRYWALL NAILS PRIOR TO APPLYING WALL PANELS. STAGGER JOINTS OF GYP. BD. AND WALL PANELS.
- REFER TO PANEL LAYOUT DRAWINGS FOR PLACEMENT OF PANELS. BUILDER MAY NEED TO TRIM PANELS SO THEY ATTACH TO FRAME MEMBERS.
- WHEREVER ANY PORTION OF A PANEL RESTS ON A FRAMING MEMBER THE PANEL SHOULD BE ATTACHED W/ PROVIDED RING SHANK NAILS OR PANEL SCREWS. PANEL EDGES MUST REST A MIN. OF 1 1/2" ON THE FRAMING MEMBERS FOR SECURE ATTACHMENT. ALONG PANEL EDGES, NAILS OR SCREWS SHOULD BE SET 1"-2" IN FROM THE EDGE AND SPACED 12" O.C.
- BUILDER SHALL FOAM ALL PANEL TO PANEL JOINTS, PLACING A BEAD OF FOAM IN THE PANEL KEY WAY. ANY VOIDS IN PANELS SHOULD BE FILLED W/ FOAM (PROVIDED BY OTHERS).
- ALL PANELS TO BE JOINED TO ADJACENT PANELS W/ PROVIDED OSB SPLINES. SPLINES MAY BE PLACED IN PANELS BEFORE PANELS ARE JOINED, OR THEY MAY BE PLACED FROM ABOVE AFTER PANELS HAVE BEEN JOINED AND NAILED. ALL PANEL TO PANEL SPLINES SHALL BE SECURED W/ 1 1/4" SCREWS AT 8" O.C. (MAX).
- AT TOP OF PANEL, MITER CUT PANEL TO SAME PITCH AS THE ROOF SLOPE. CUT PANEL 1/2" SHORT TO ALLOW FOR GAP BETWEEN ROOF AND WALL PANELS. THIS 1/2" GAP SHOULD BE SEALED W/ FOAM AFTER THE ROOF PANELS HAVE BEEN APPLIED.
- CUT GABLE PANELS AT THE SAME PITCH AS ROOF SLOPE. ALLOW FOR 1/2" GAP BETWEEN WALL AND ROOF PANELS TO ALLOW FOR FOAMING OF JOINT.
- ROUT ALL WINDOW AND DOOR OPNGS, AS WELL AS INSIDE AND OUTSIDE CORNER PANELS 1 1/2" FOR 2x BLOCKING (BY OTHERS). FULL PANELS ADJACENT TO DOOR AND LARGE WINDOW OPNGS SHOULD RECEIVE A FULL LENGTH 2x BLK'. SECURE BLK'G W/ 1 1/4" SCREWS AT 8" O.C. (MAX) AT INTERIOR AND EXTERIOR FACES. FOAM BETWEEN PANEL AND BLK'G. ALL BLOCKING PROVIDED BY OTHERS.
- AT ROUGH OPENINGS SILL AND HEADER SHOULD OVERLAP THE RISERS, SO THAT THE RISERS CARRY SOME OF THE HEADER LOAD.
- ROUGH OPENINGS CUT INTO PANELS SHOULD NOT BE CLOSER THAN 6" FROM THE EDGE OF A PANEL.
- REFER TO ARCHITECTURAL AND/OR FRAME DRAWINGS FOR WINDOW AND DOOR LOCATIONS AND DIMENSIONS.
- REFER TO ELEVATIONS AND PANEL DRAWINGS FOR WINDOW AND DOOR HEAD HEIGHTS.

STRUCTURAL PANEL R-VALUES / FASTENERS				
THICKNESS	USE	EPB	NEOPOR	SCREW LENGTH
4 1/2"	WALL	R-11	R-20	8" PANEL SCREW
6 1/2"	WALL & ROOF	R-24	R-30	9" PANEL SCREW
8 1/2"	WALL & ROOF	R-30	R-38	1 1/4" PANEL SCREW
10 1/2"	ROOF	R-38	R-48	1 3/4" PANEL SCREW

NOTE: SPECIAL CONDITION PANELS MAY REQUIRE ALTERNATE SCREWS. REFER TO PANEL DOCUMENTS FOR ADDITIONAL INFORMATION.

ROOF PANEL APPLICATION NOTES:

- WHEN PANELS ARRIVE AT SITE ALL STACKS OF PANELS SHOULD BE PLACED UPON BLOCKING ON LEVEL GROUND TO PREVENT TWISTING. PANELS CAN WITHSTAND SEVERAL WETTING AND DRYING CYCLES. IT IS THE RESPONSIBILITY OF THE BUILDER TO PROVIDE PROTECTION FOR THE PANELS FROM THE WEATHER.
- METHODS OF GETTING PANELS ONTO THE ROOF WILL VARY ACCORDING TO SITE CONDITIONS. USE OF A CRANE IS THE SAFEST METHOD, THOUGH NOT ALWAYS APPLICABLE. IF USING A CRANE CAREFUL PLANNING AND PRECUTTING OF NECESSARY PANELS WILL MAKE APPLICATION EFFICIENT.
- REFER TO WALL PANEL ELEVATIONS AND ROOF PANEL LAYOUT FOR ROOF PANEL PROFILE.
- ROOF PANELS TO BE APPLIED ON TOP OF 6 MIL. POLY VAPOR BARRIER. ALL ROOF PANELS ARE TO BE ATTACHED TO ALL TIMBER RAFTERS W/ PROVIDED RING SHANK NAILS OR PANEL SCREWS. (DEPENDING ON THE DEPTH OF THE PANELS) AT 12" O.C. ALL ROOF PANELS MUST BEAR A MIN. OF 1 1/2" ON ALL TIMBER MEMBERS. BE CAREFUL TO NOT OVER DRIVE NAILS OR SCREWS AT EDGES OF PANELS. OVER DRIVING CAN CAUSE COMPRESSION OF THE PANEL EDGES, CREATING A RAISED JOINT WHEREVER ROOF PANELS MEET. NOT DRIVING THE TOP ROW OF NAILS COMPLETELY WILL ALSO AID IN PLACEMENT OF THE PANEL ABOVE. FINISH DRIVING NAILS OR SCREWS AFTER THE PANELS ARE JOINED BY AN OSB SPLINE.
- ALL PANELS ARE TO BE JOINED TO ADJACENT PANELS WITH A PROVIDED OSB SPLINE. ALL PANEL TO PANEL SPLINES ARE TO BE SECURED W/ 1 1/4" SCREWS AT 8" O.C. (MAX). ROOF PANELS RECEIVE A SINGLE OSB SPLINE.
- FOAM MUST BE APPLIED IN THE PROVIDED KEY WAY. FOR THE TIGHTEST AND MOST ENERGY EFFICIENT JOINT WHERE ROOF PANELS ABUT OVER A RAFTER LEAVE A 1/2" GAP AND FILL W/ EXPANDING FOAM (BY OTHERS) TO PROVIDE A COMPLETE SEAL.
- ROOF PANELS WILL REQUIRE FIELD CUTS AT EAVE, RAKE, RIDGE, ETC. REFER TO ROOF PANEL DETAIL DRAWINGS FOR VARIOUS RIDGE DETAILS.
- THE BUILDER SHALL ROUT EAVE AND RAKE PANELS 1 1/2" TO RECEIVE 2x BLK'G FOR SUB FASCIA. BLOCKING WILL BE ATTACHED FROM ABOVE AND BELOW W/ 1 1/4" SCREWS AT 8" O.C. (MAX). BLOCKING FOR THE RIDGE WILL VARY ACCORDING TO THE ROOF PITCH AND THE RIDGE DETAIL USED. REFER TO WALL PANEL ELEVATIONS AND ROOF PANEL DETAIL DRAWINGS FOR BLOCKING DETAIL TO USE. BLOCKING PROVIDED BY OTHERS.
- BUILDER MAY NEED TO MAKE FIELD ADJUSTMENTS TO PANELS ACCORDING TO SITE CONDITIONS.
- REFER TO ARCHITECTURAL AND/OR FRAME DRAWINGS FOR ROOF OPENING LOCATIONS. ROUT OPENINGS 1 1/2" AND APPLY 2x BLK'G W/ FOAM BETWEEN BLK'G AND PANEL.
- REFER TO ROOF PANEL DETAIL DRAWINGS FOR BLK'G DETAILS AND TYPICAL ROOF CONDITIONS.
- REFER ANY TECHNICAL QUESTIONS TO MILL CREEK POST & BEAM CO.

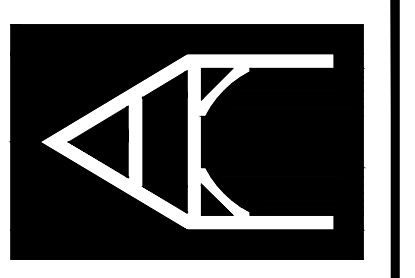
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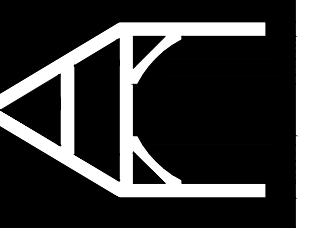
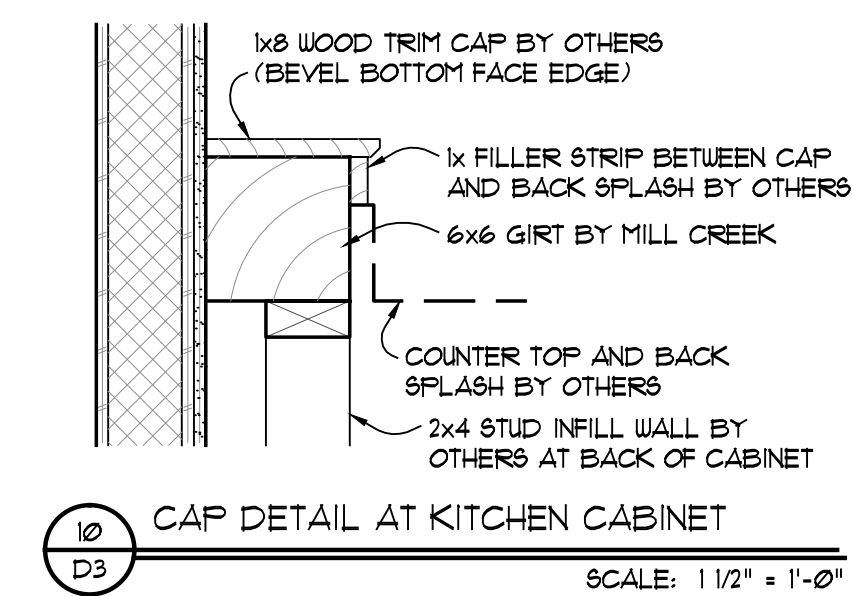
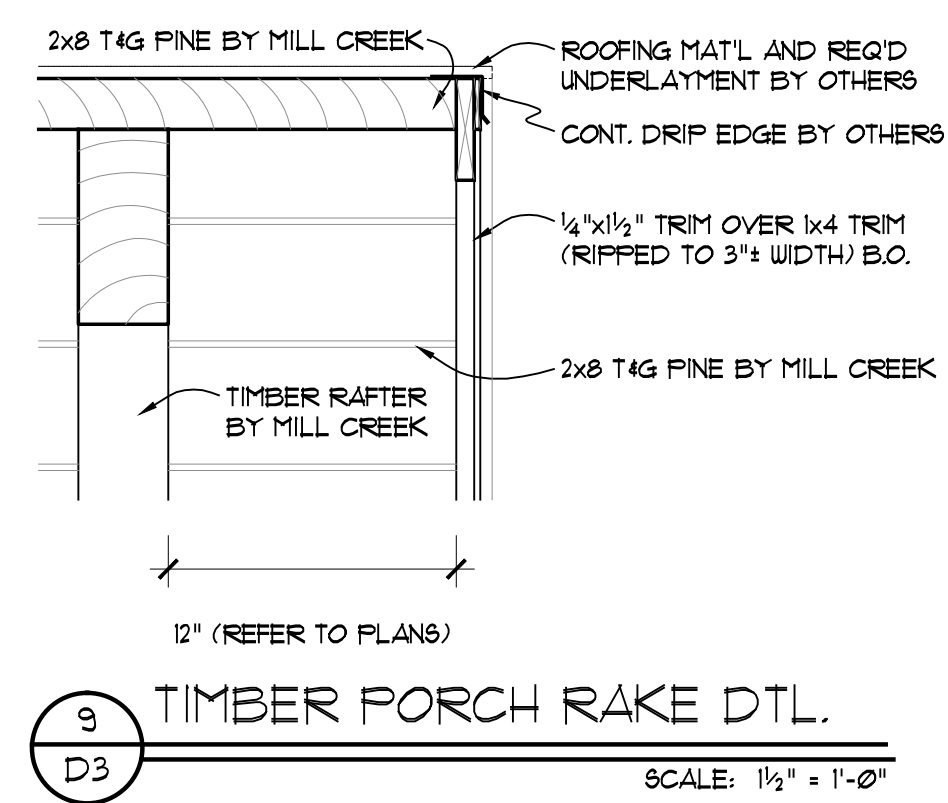
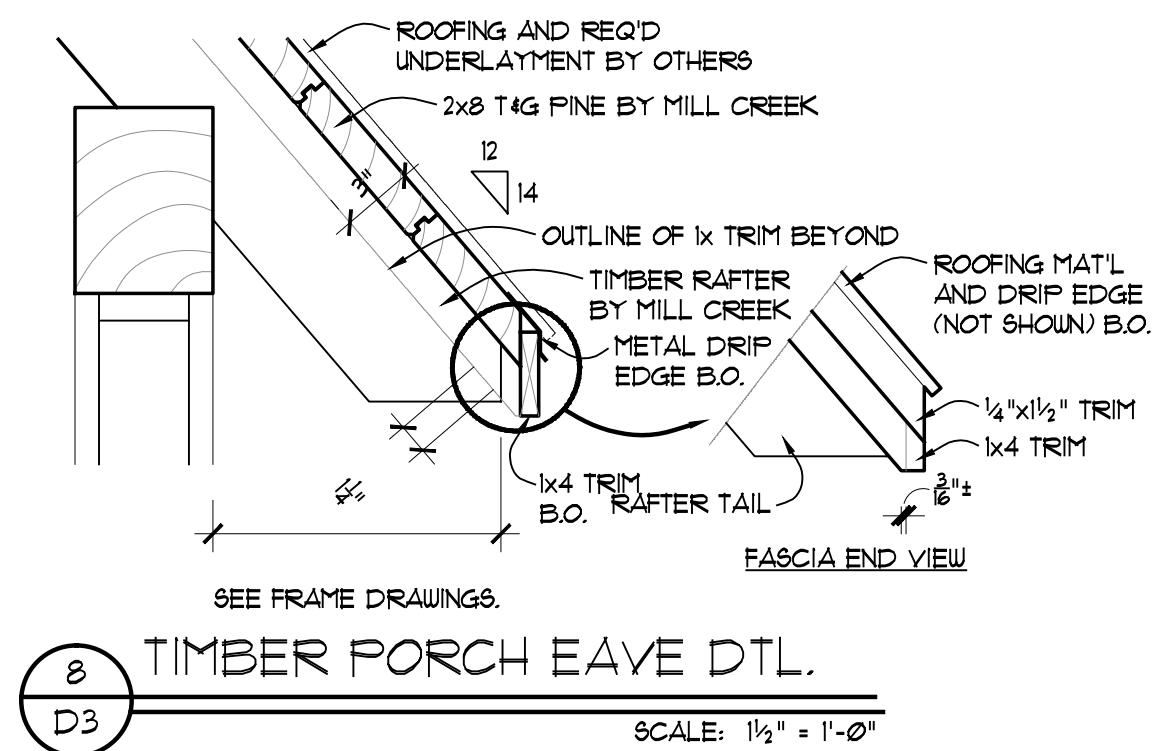
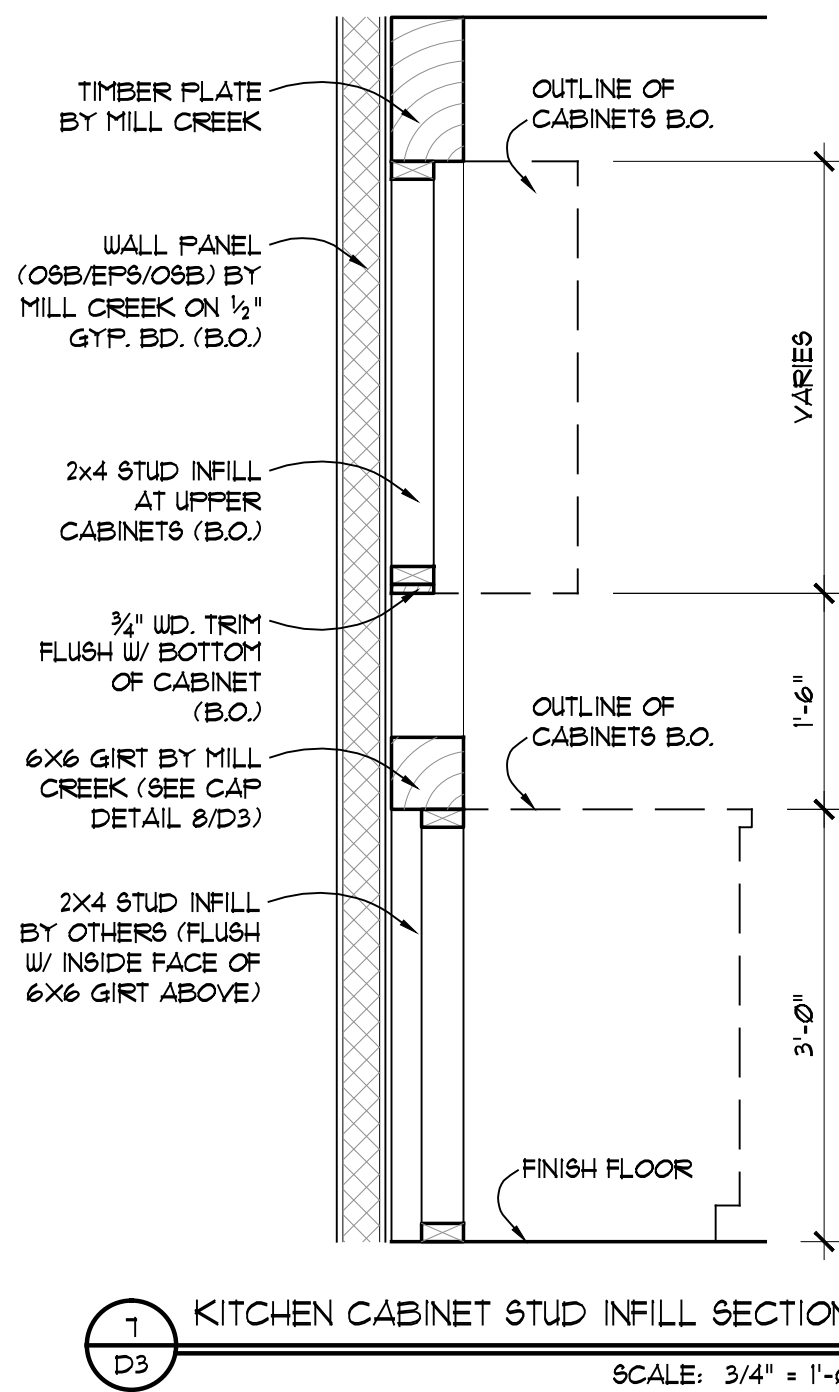
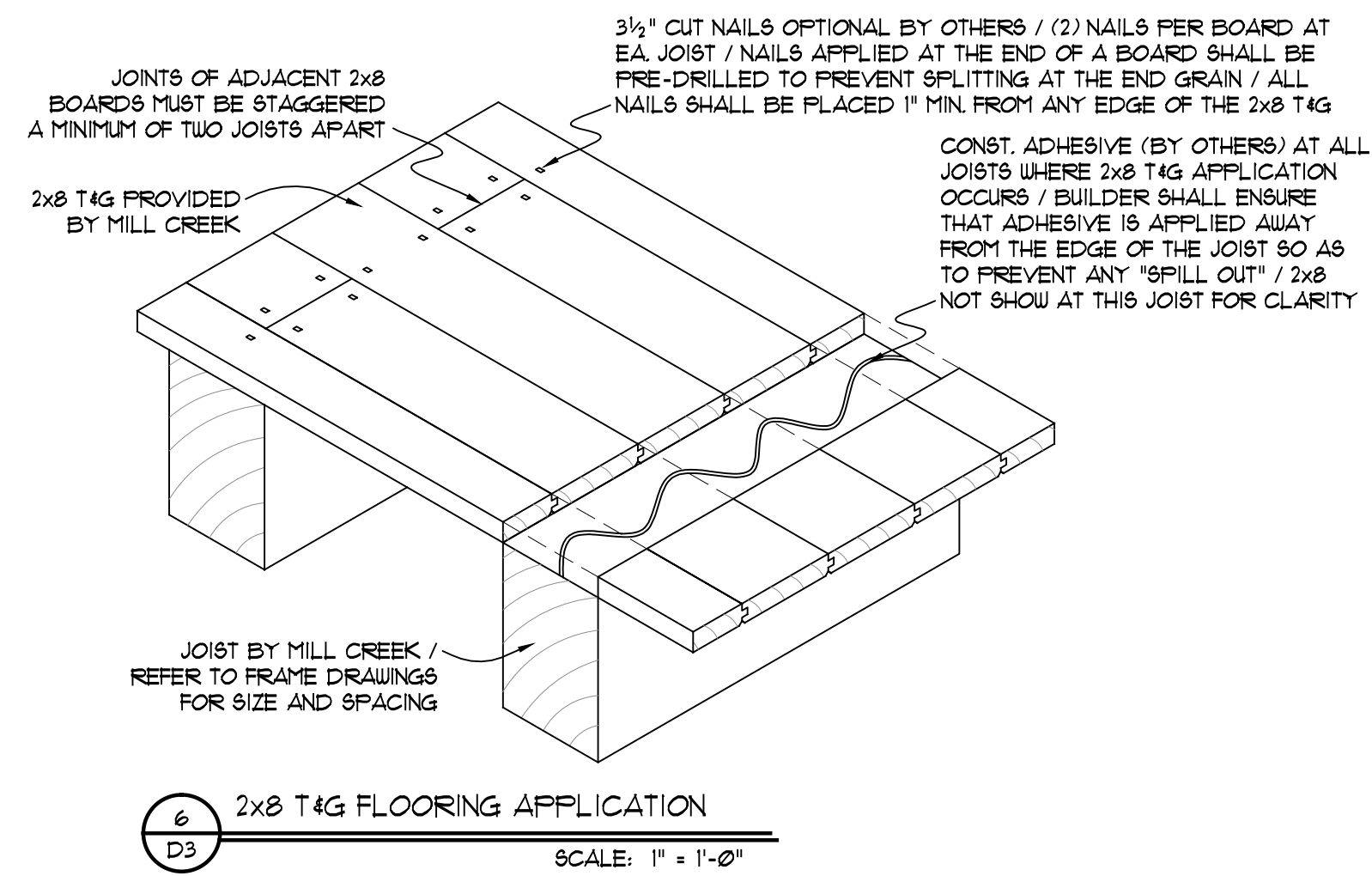
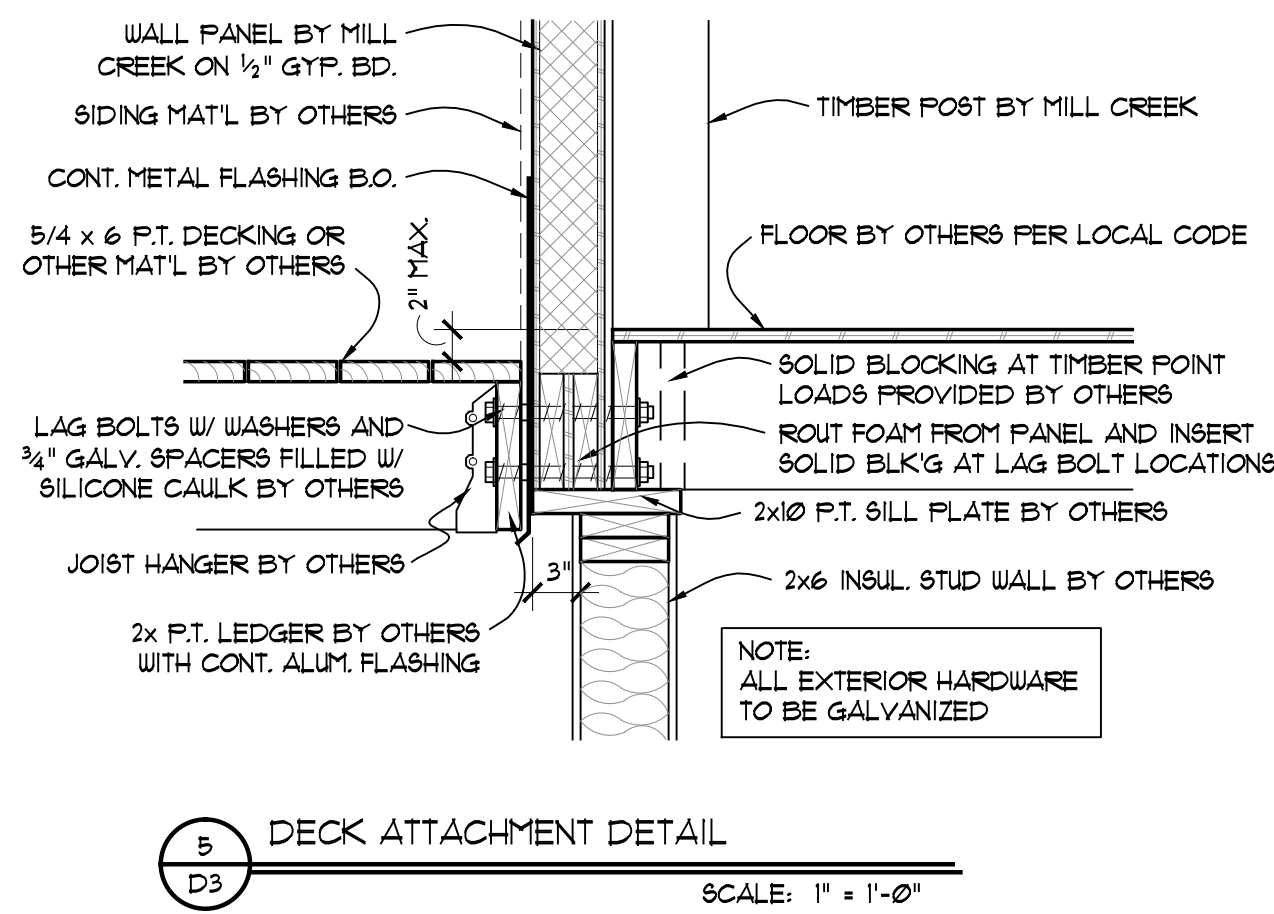
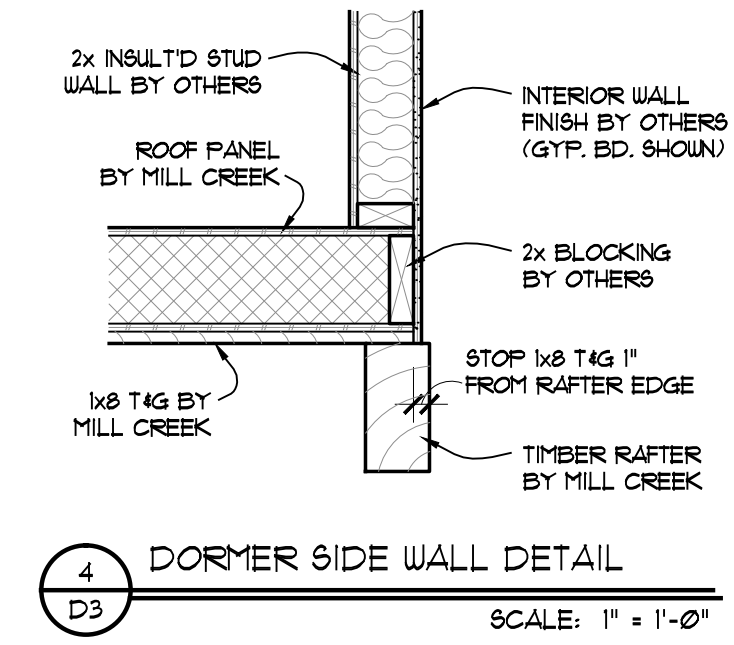
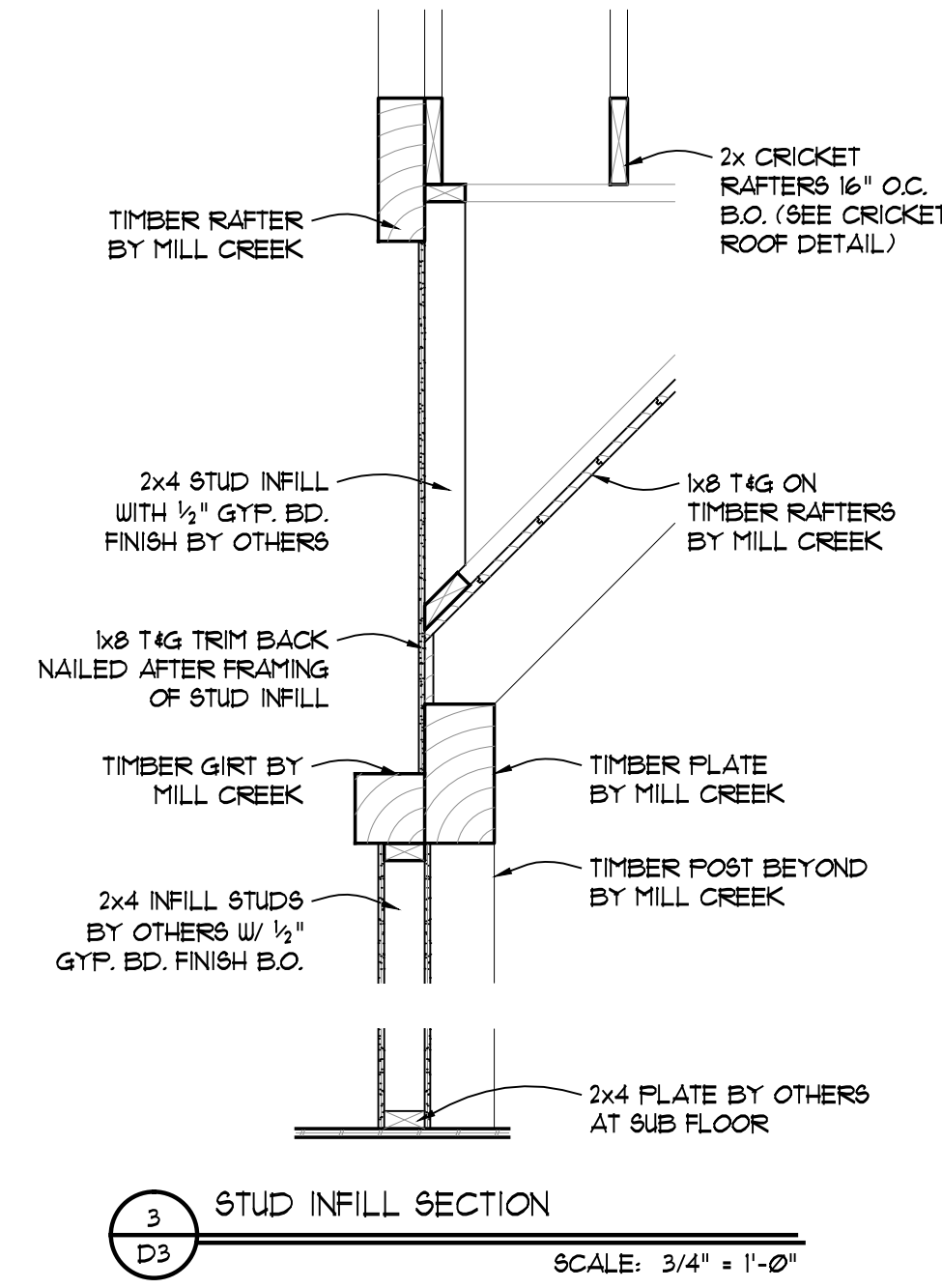
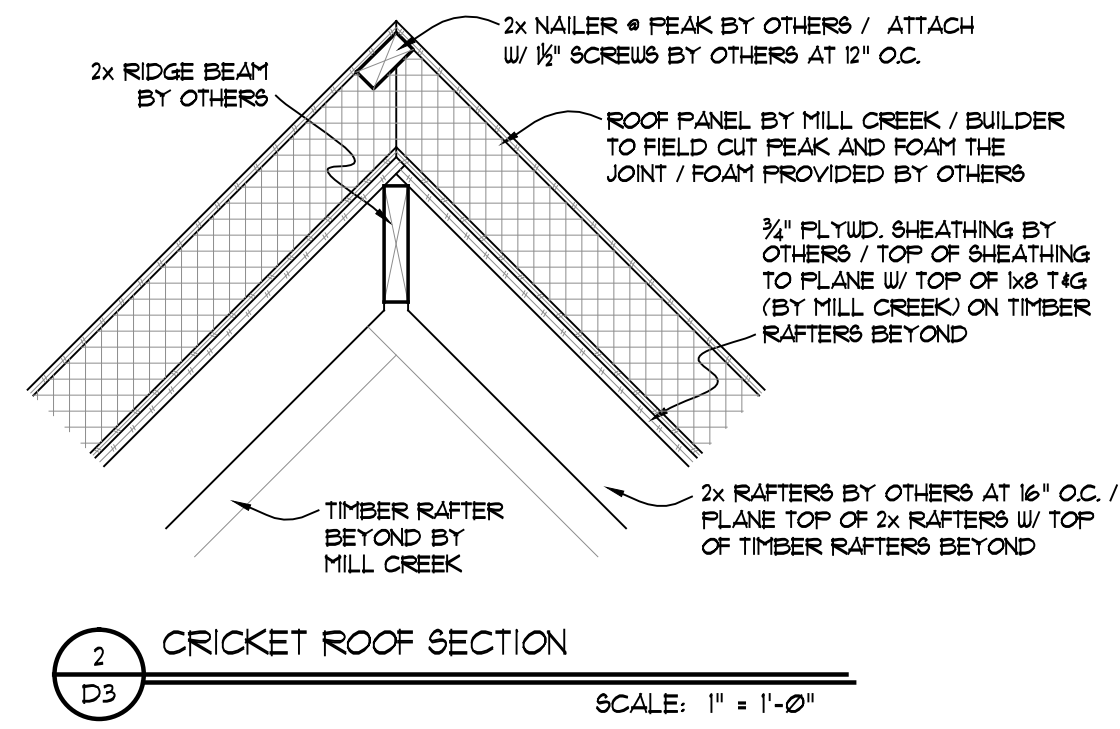
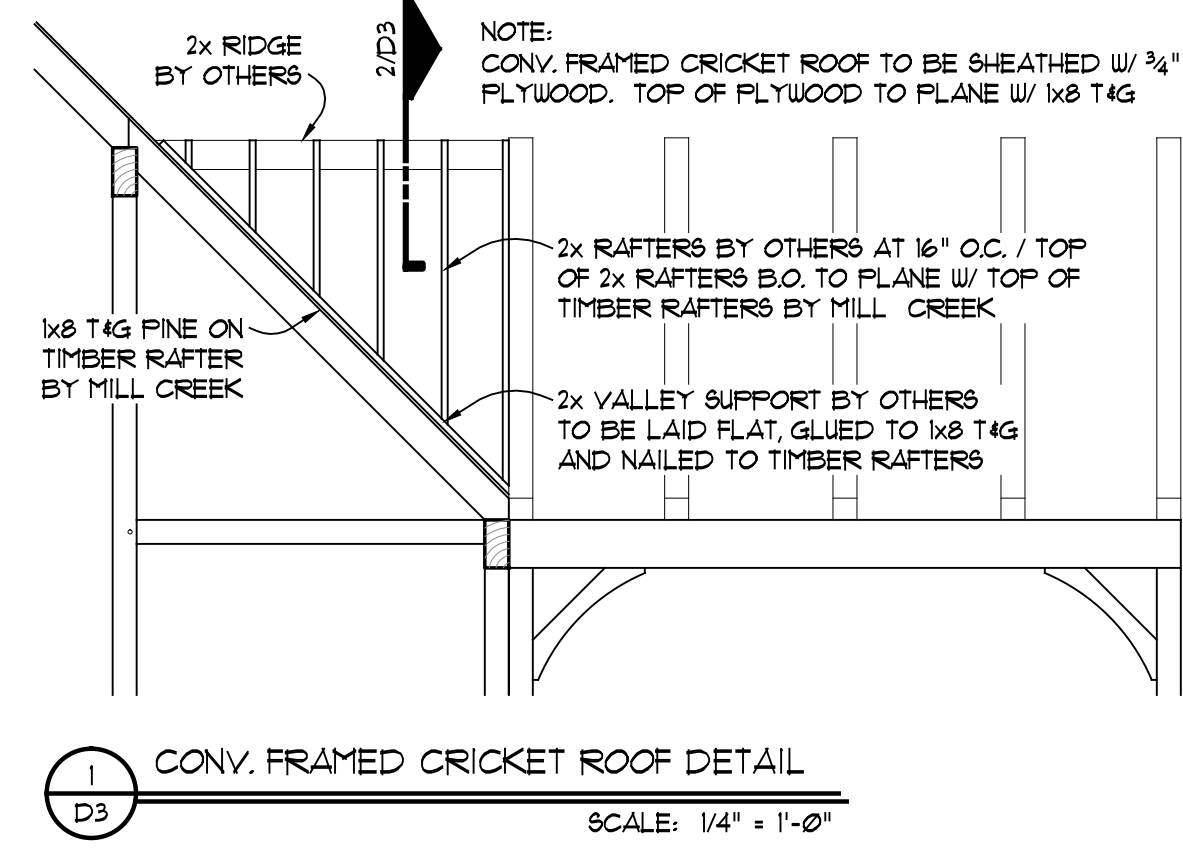
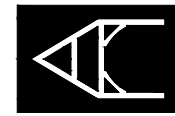
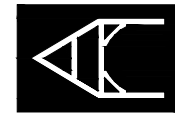
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D2





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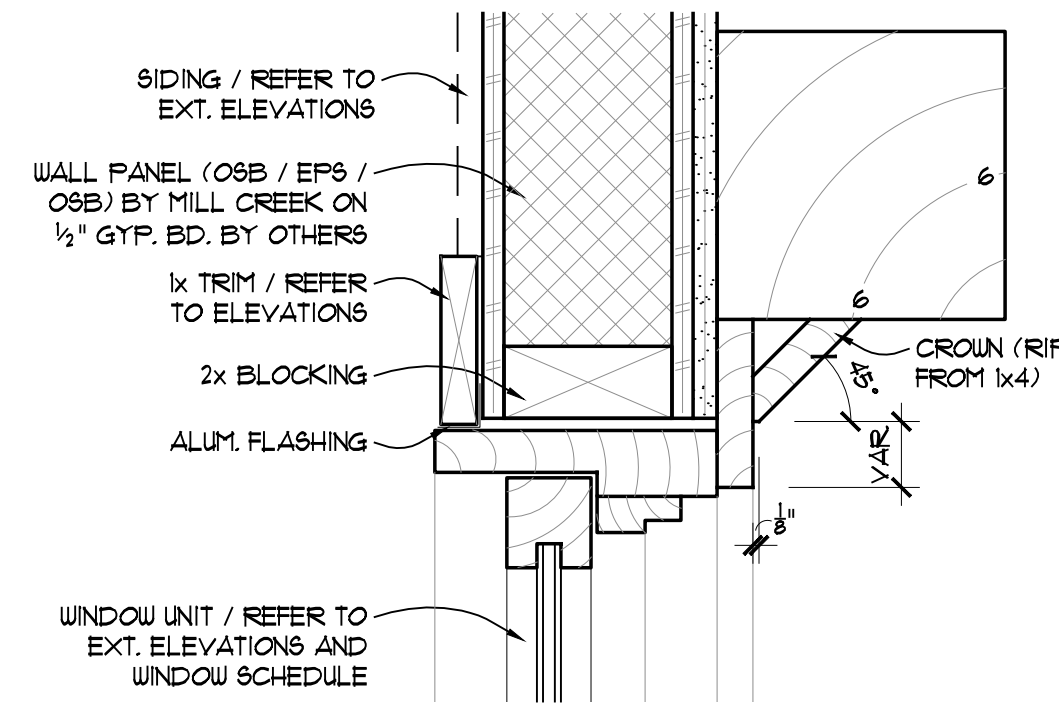
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REVISIONS

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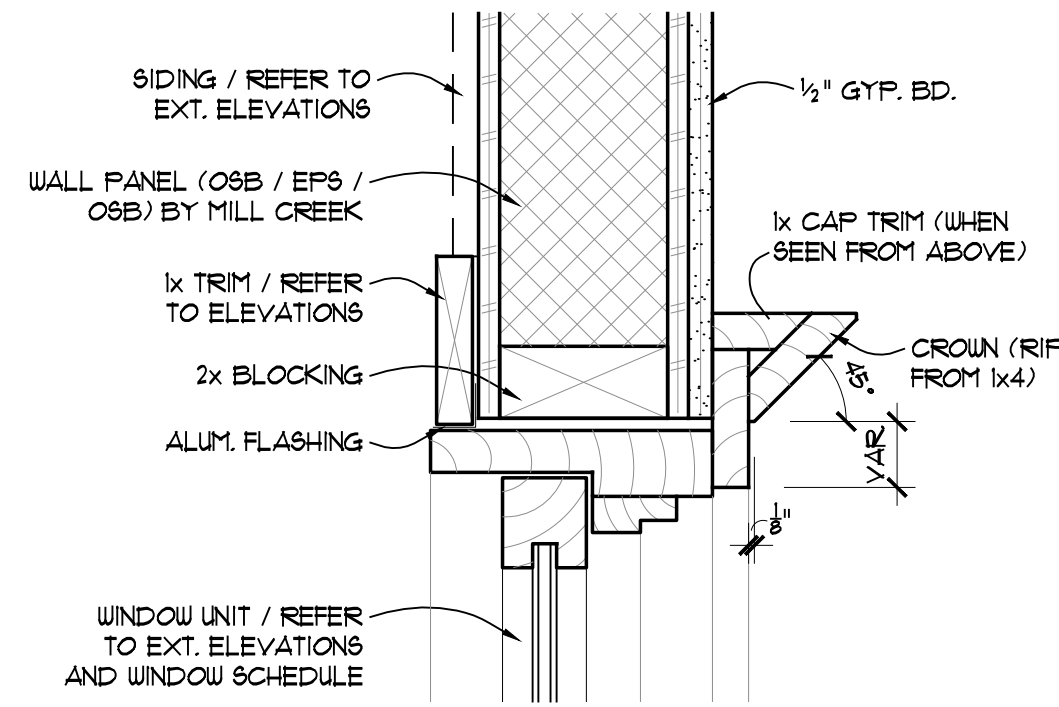
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STANDARD WINDOW TRIM



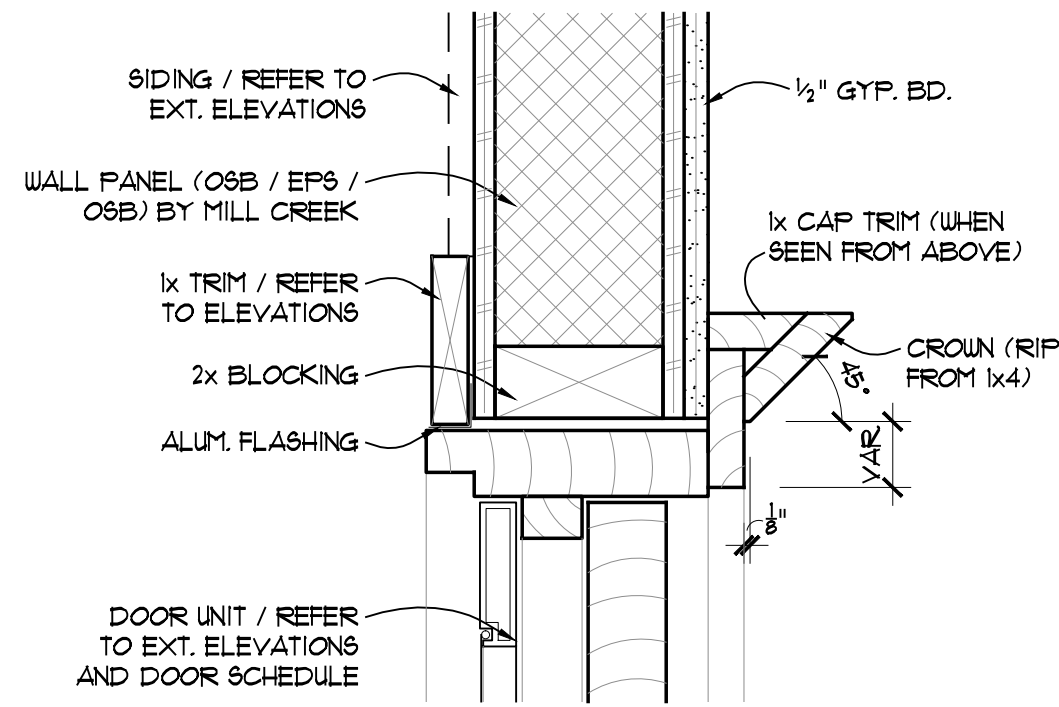
1 WINDOW HEAD SECTION
D4 AT GIRT / SIM. AT PLATE SC. 3" = 1'-0"

OPTIONAL WINDOW TRIM

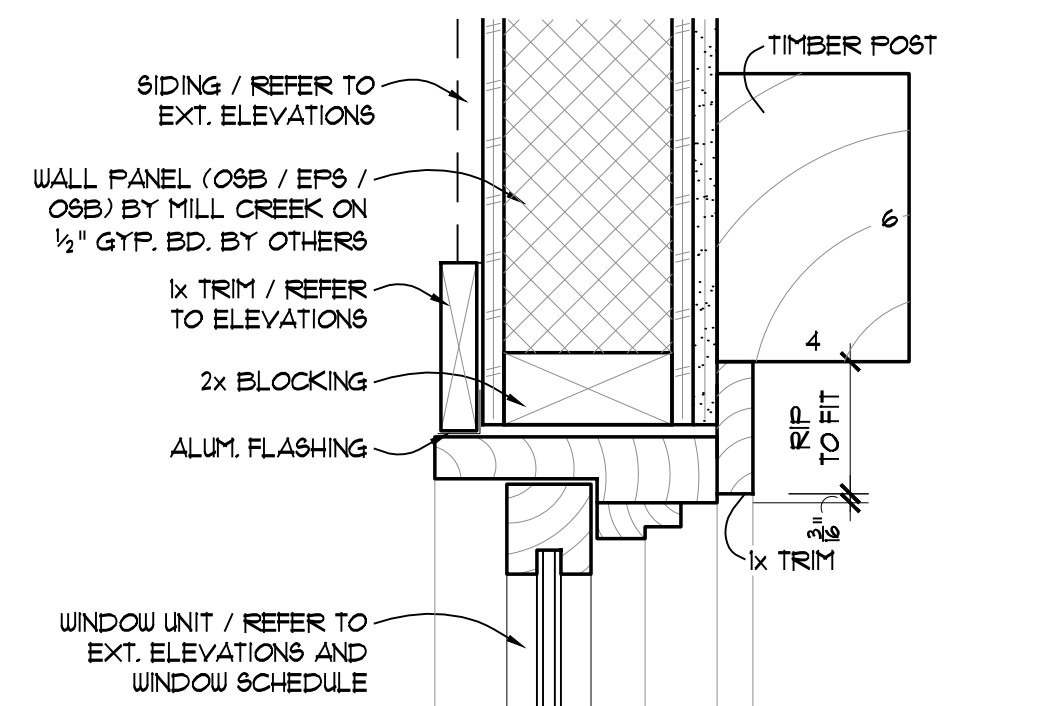


4 WINDOW HEAD SECTION
D4 SC. 3" = 1'-0"

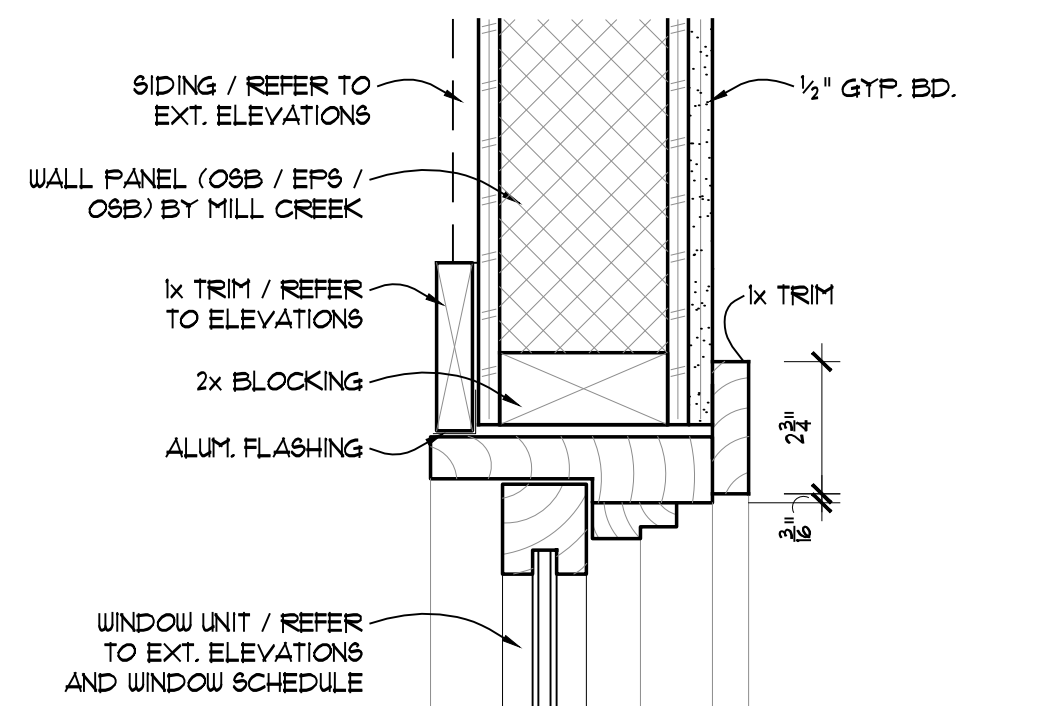
STANDARD DOOR TRIM



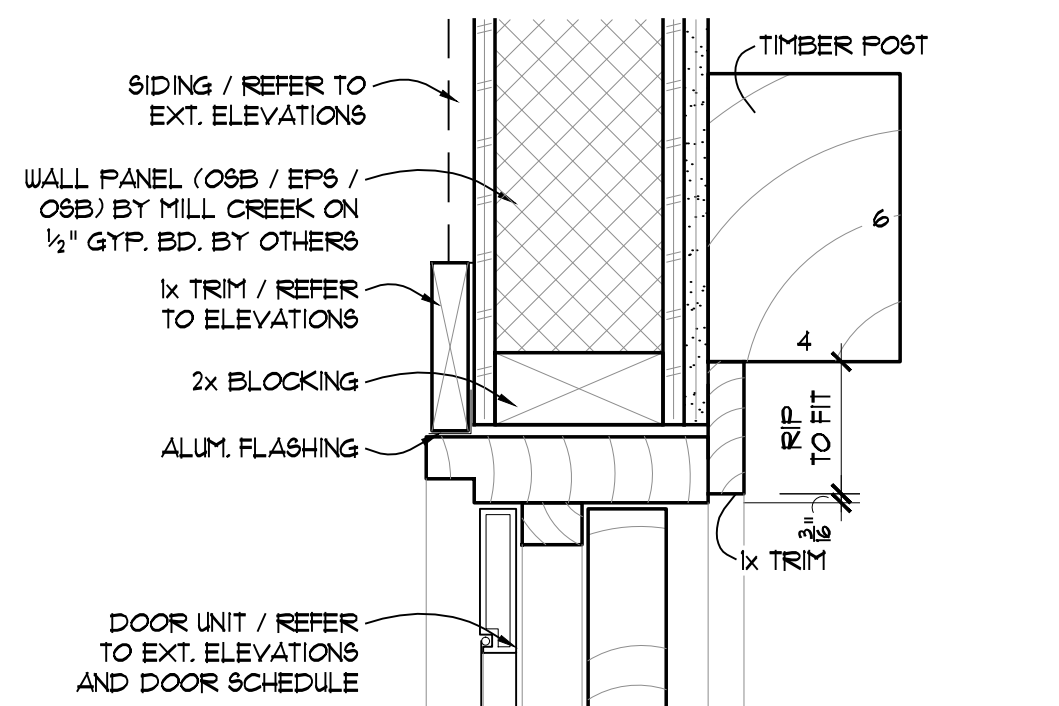
7 DOOR HEAD SECTION
D4 SC. 3" = 1'-0"



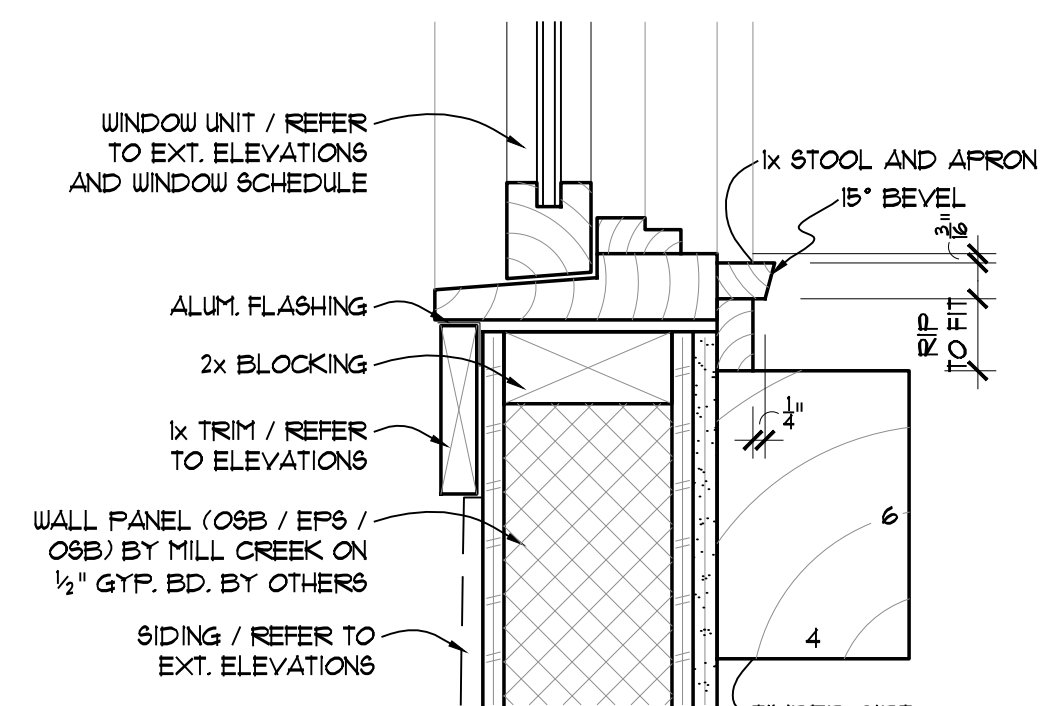
2 WINDOW JAMB SECTION
D4 AT DOOR POST SC. 3" = 1'-0"



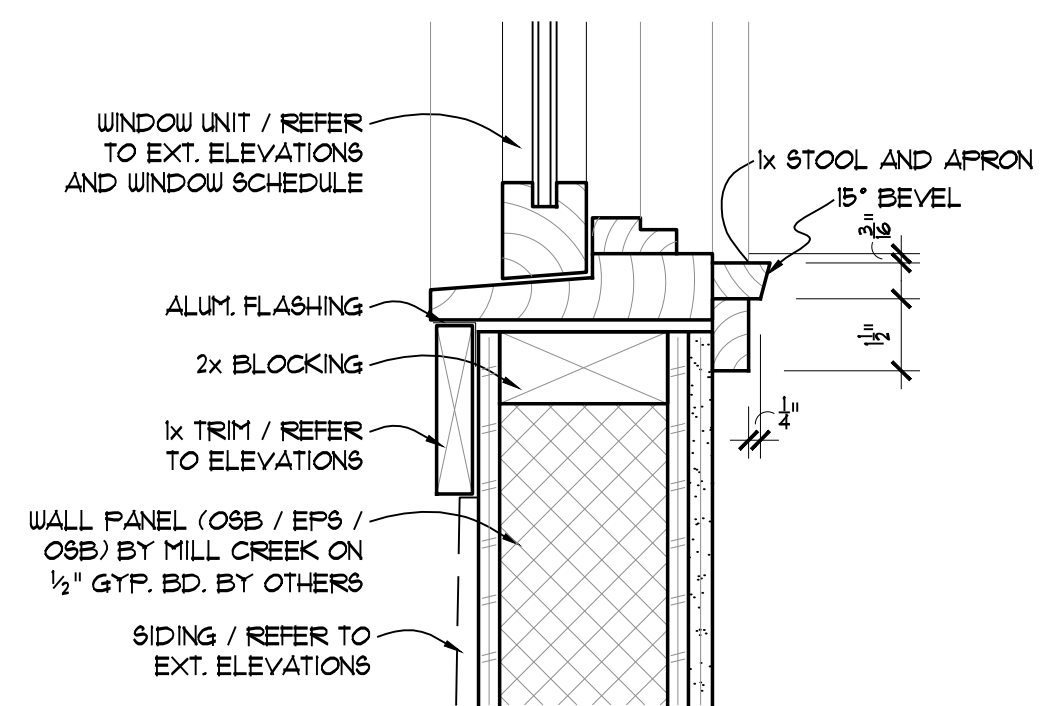
5 WINDOW JAMB SECTION
D4 SC. 3" = 1'-0"



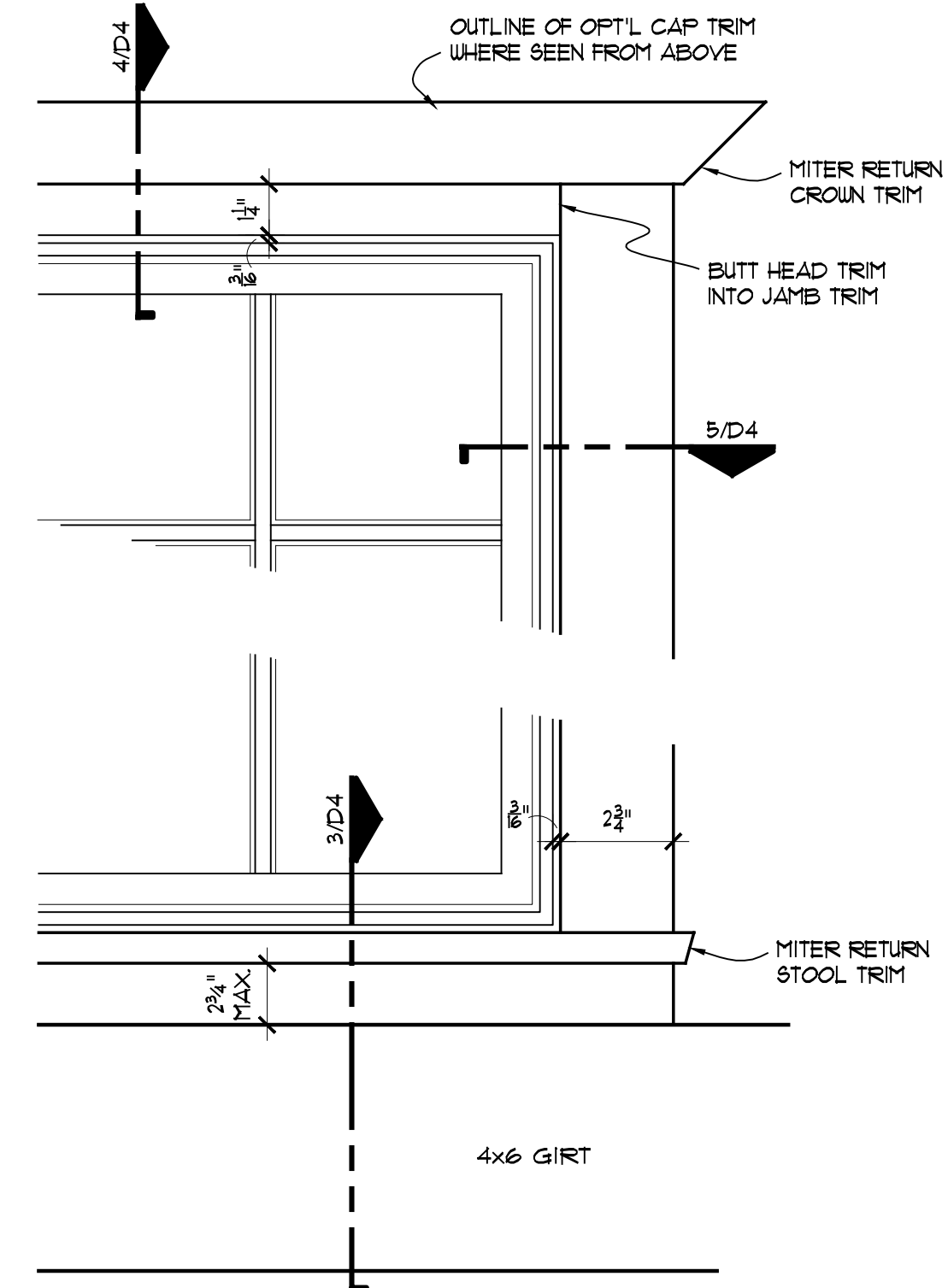
8 DOOR JAMB SECTION
D4 SC. 3" = 1'-0"



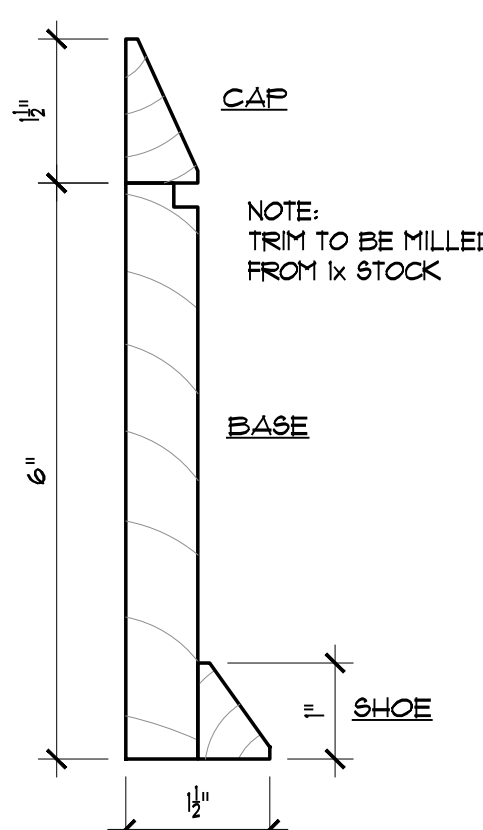
3 WINDOW SILL SECTION
D4 AT 4x6 GIRT SC. 3" = 1'-0"



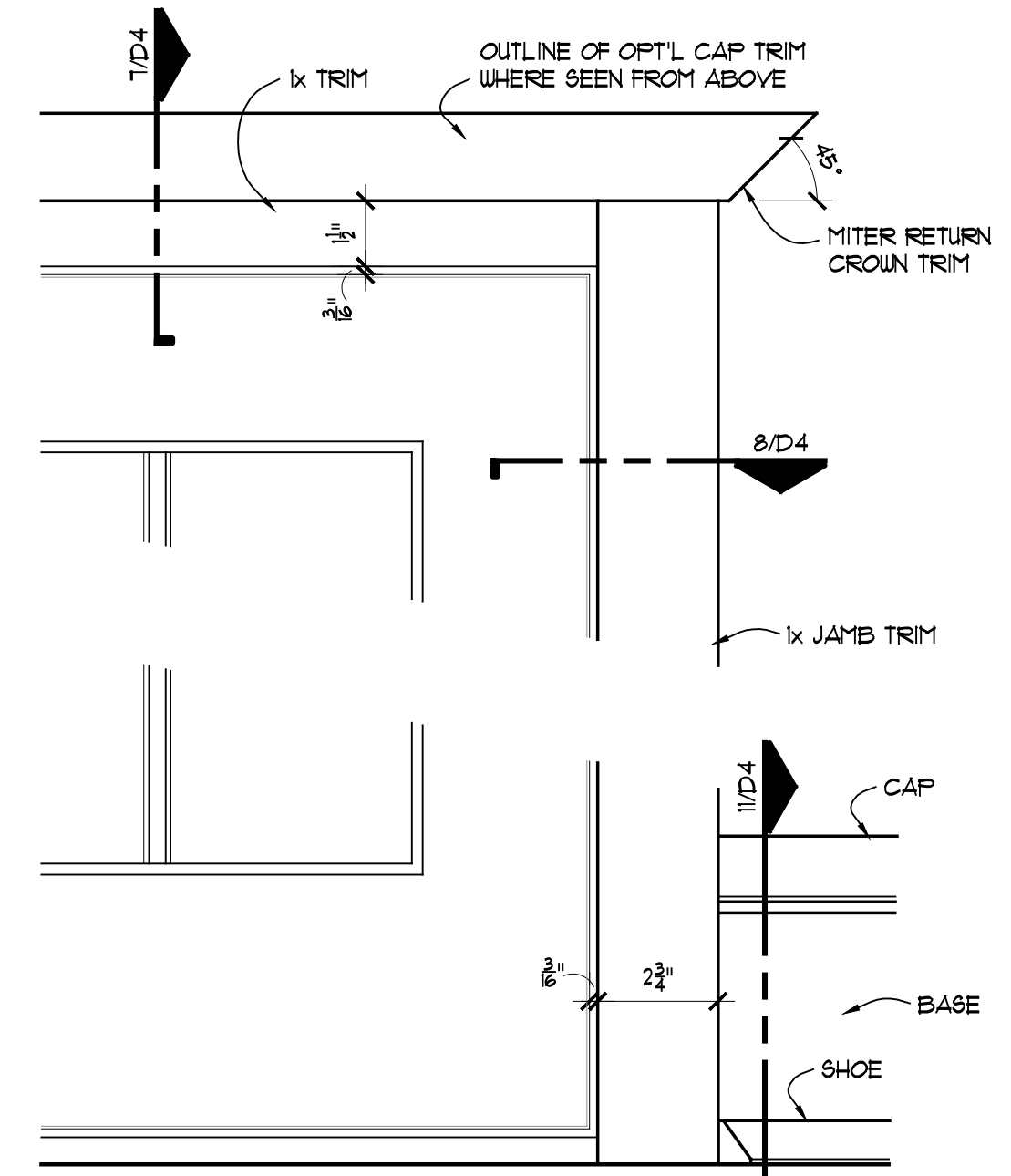
6 WINDOW SILL SECTION
D4 SC. 3" = 1'-0"



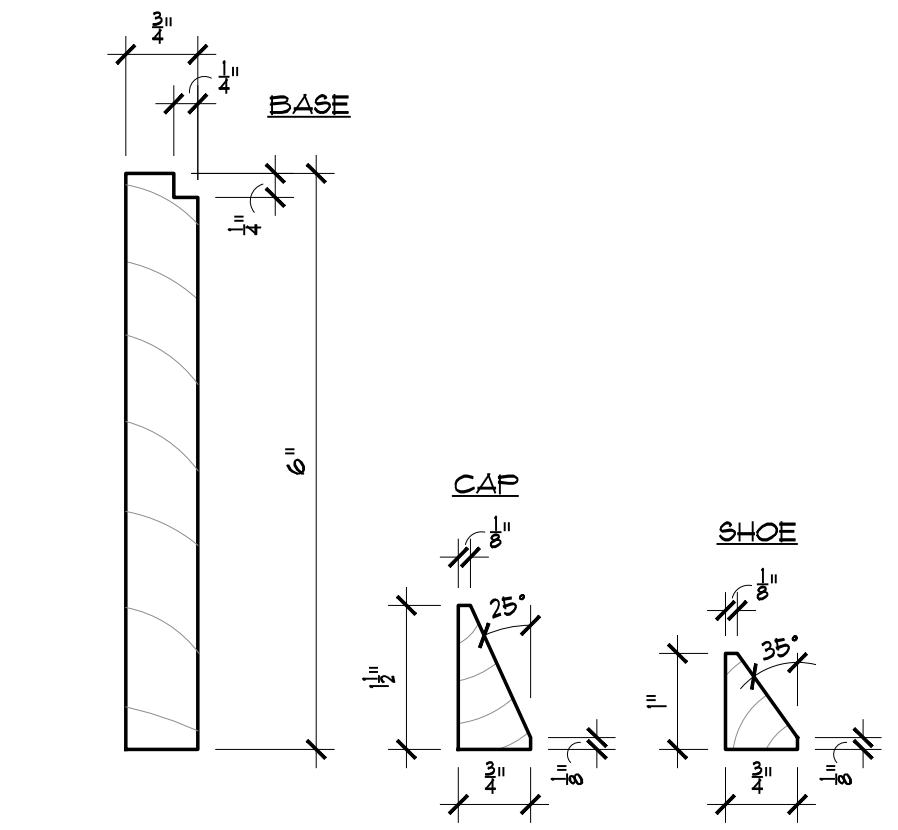
9 TYP. WINDOW INT. ELEVATION
D4 SC. 3" = 1'-0"



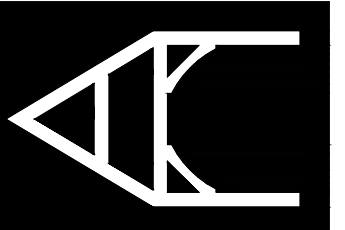
11 BASE TRIM DTL.
D4 SC. 6" = 1'-0"



10 TYP. DOOR INT. ELEVATION
D4 SC. 3" = 1'-0"



12 TRIM PIECE DTL.
D4 SC. 6" = 1'-0"



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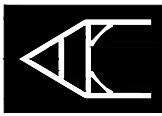
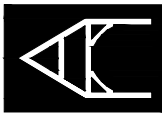
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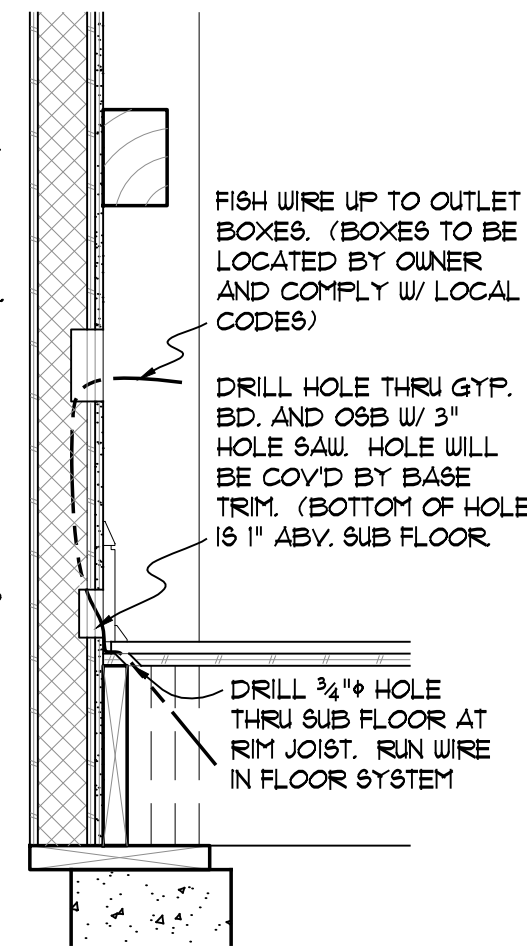
DRAWING TYPICAL TRIM DETAIL 6
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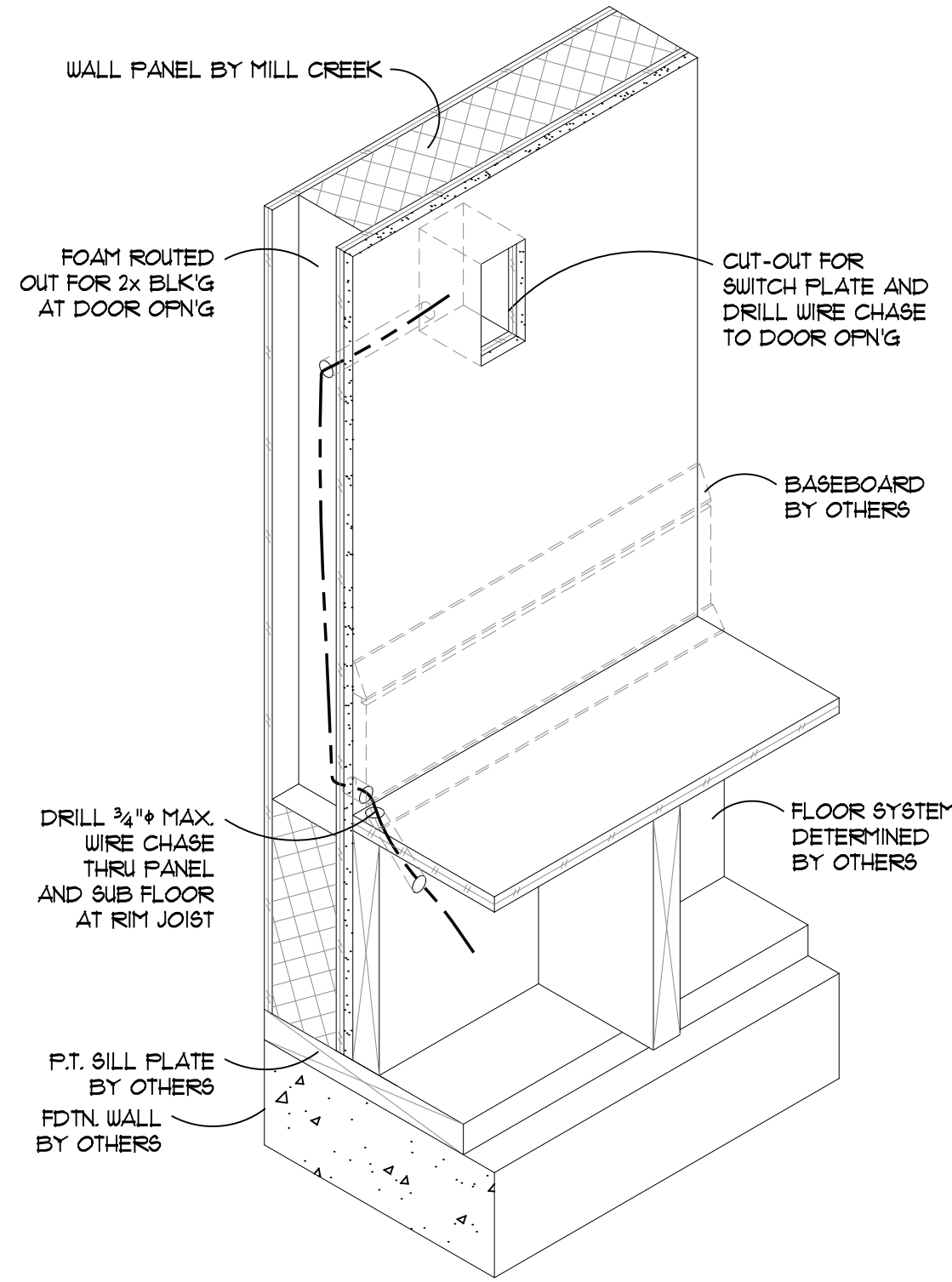
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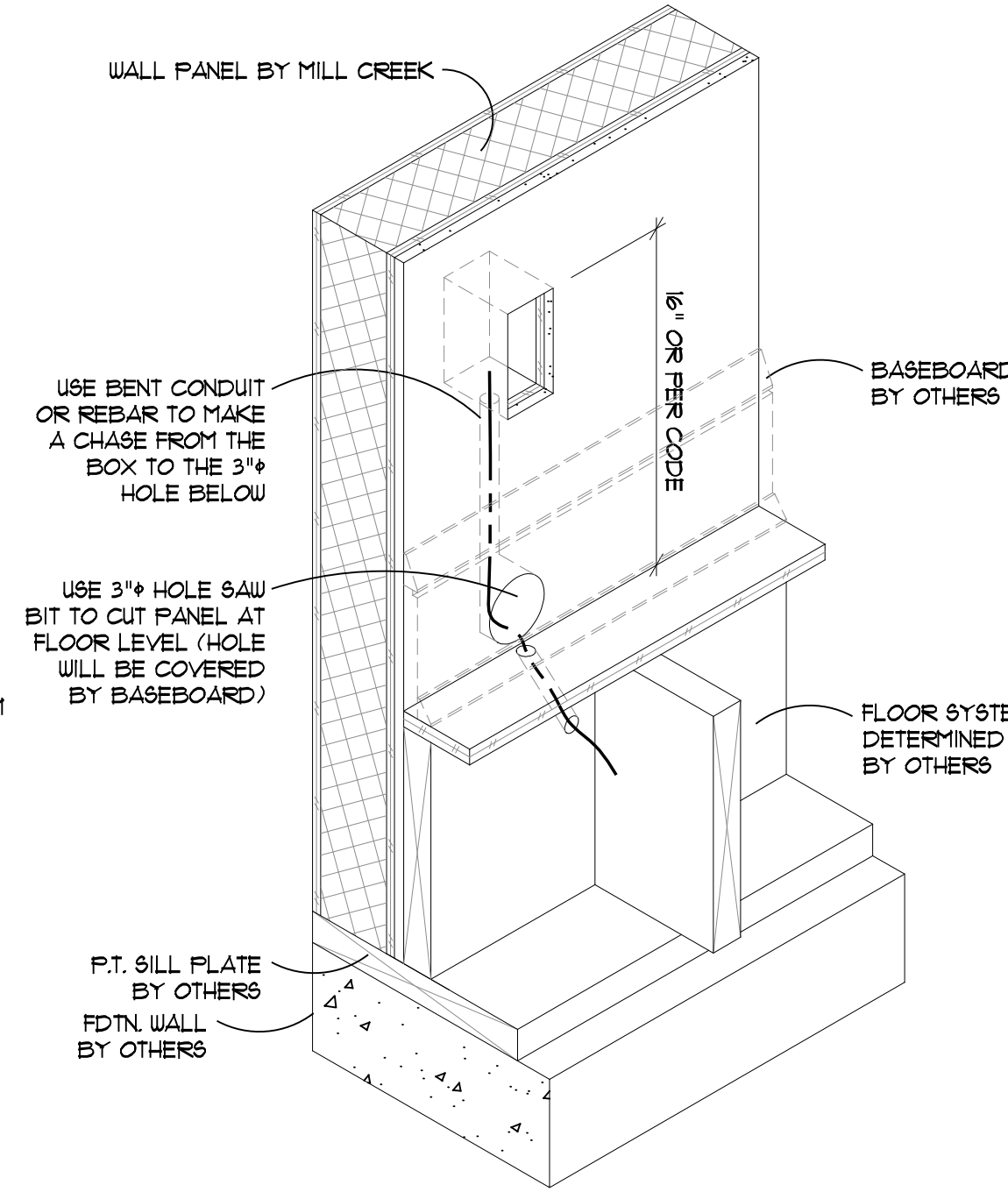
- DETERMINE BOX LOCATION PER OWNER'S PREF. AND LOCAL CODES
- MARK BOX LOCATION ON GYP. BD. AND CUT BOX HOLE W/ JIGSAW. REMOVE FOAM FROM PANEL FOR ELECTRICAL BOX.
- USE ELECTRICAL BOX W/ SWING OUT TABS TO HOLD BOX IN PLACE.
- CUT THRU GYP. BD. AND OSB W/ 4" HOLE SAW AT FLOOR BELOW OUTLET BOX.
- PARTIALLY DRIVE A NAIL INTO THE SUB FLOOR AT BOX TO MARK LOCATION FROM BELOW.
- DRILL 3/4" FROM BELOW THRU SUB FLOOR AT RIM JOIST.
- RUN WIRE UP THRU SUB FLOOR THRU 4" HOLE, AND UP TO BOX.
- THIS SYSTEM REQUIRES JUNCTION BOX LOCATION W/ ACCESS.
- REFER TO LOCAL ELEC. CODES TO ENSURE CODE COMPLIANCE.



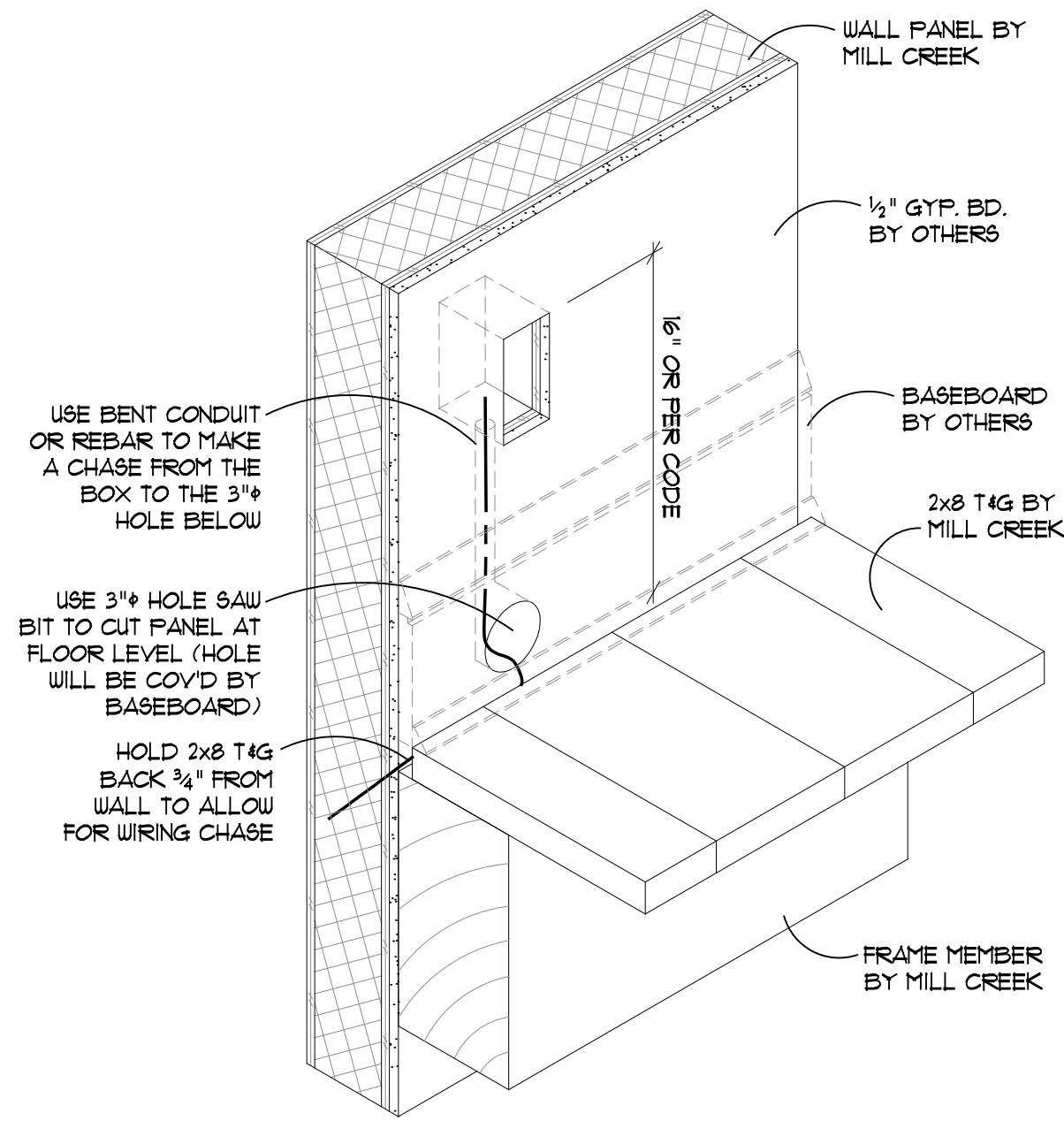
1 DB ELECTRICAL DETAIL
SCALE: 1" = 1'-0"



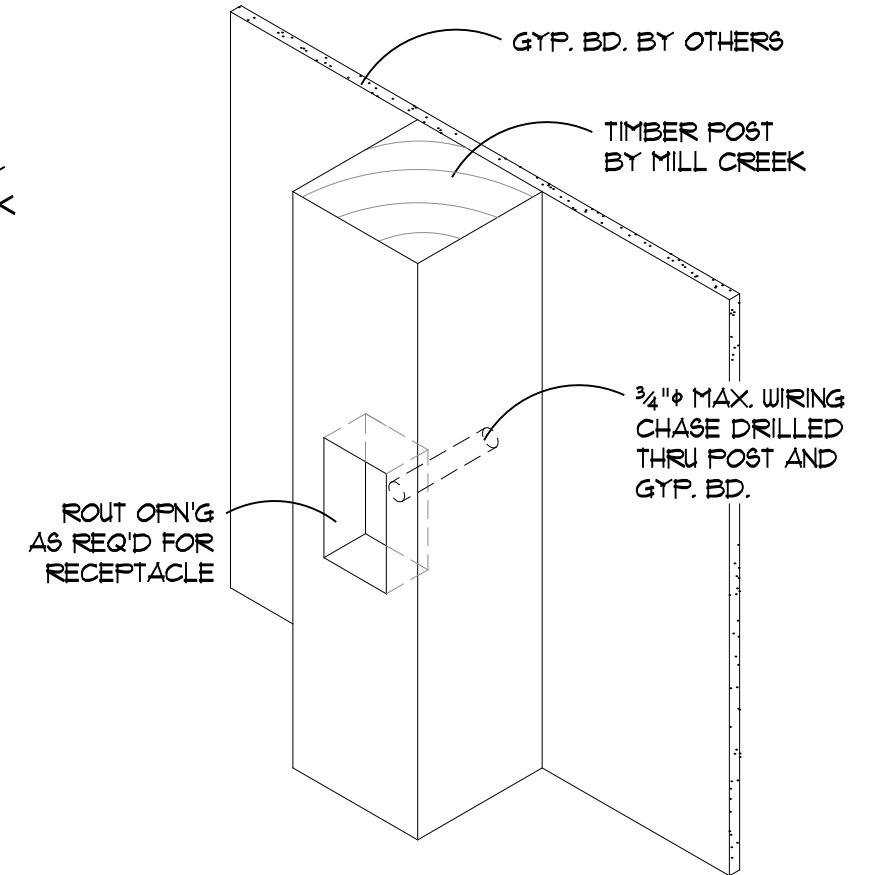
2 DB 3-D VIEW OF WIRING AT A DOOR OPENING



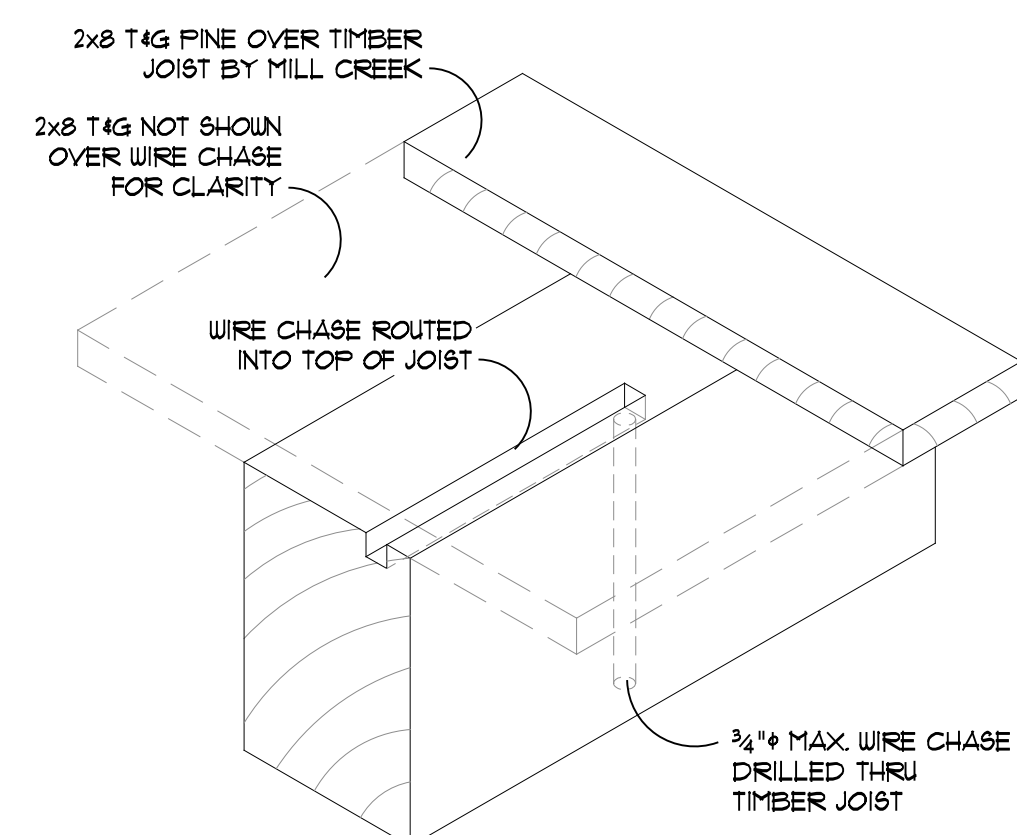
3 DB 3-D WIRING DETAIL



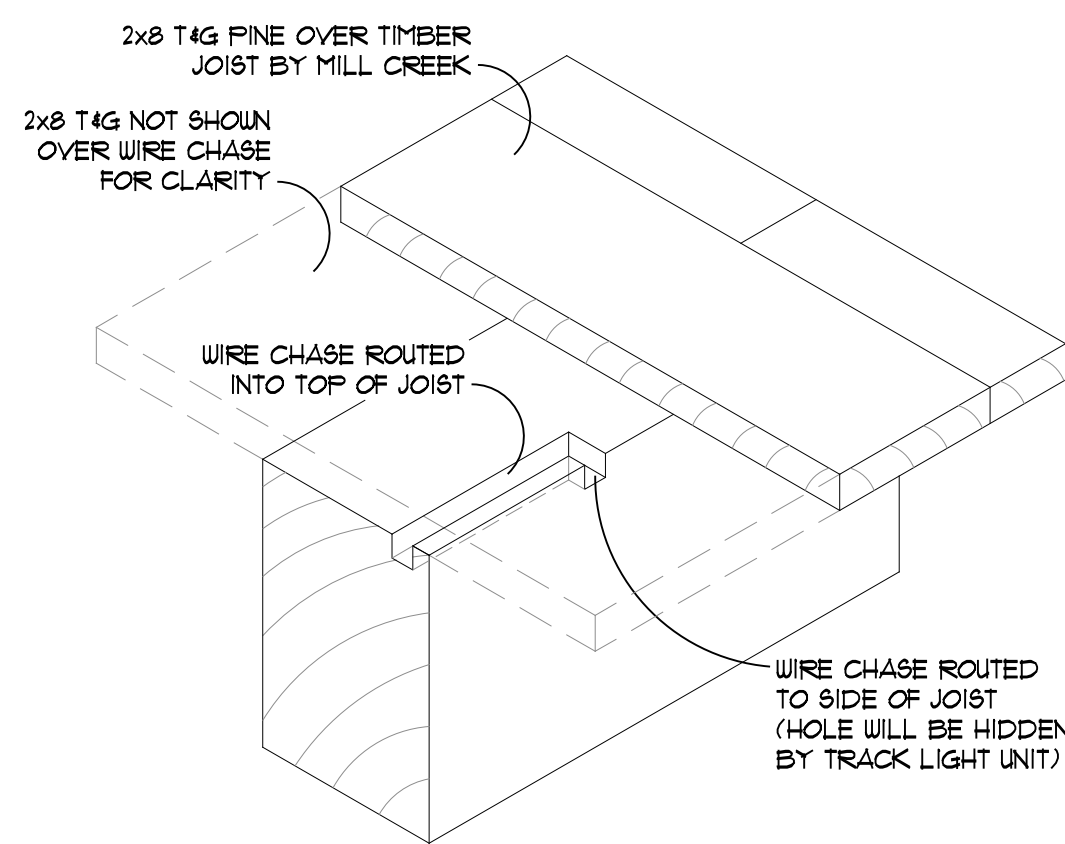
4 DB 3-D VIEW OF WIRING CHASE AT UPPER FLOOR LEVEL



5 DB 3-D VIEW OF RECEPTACLE AT TIMBER POST

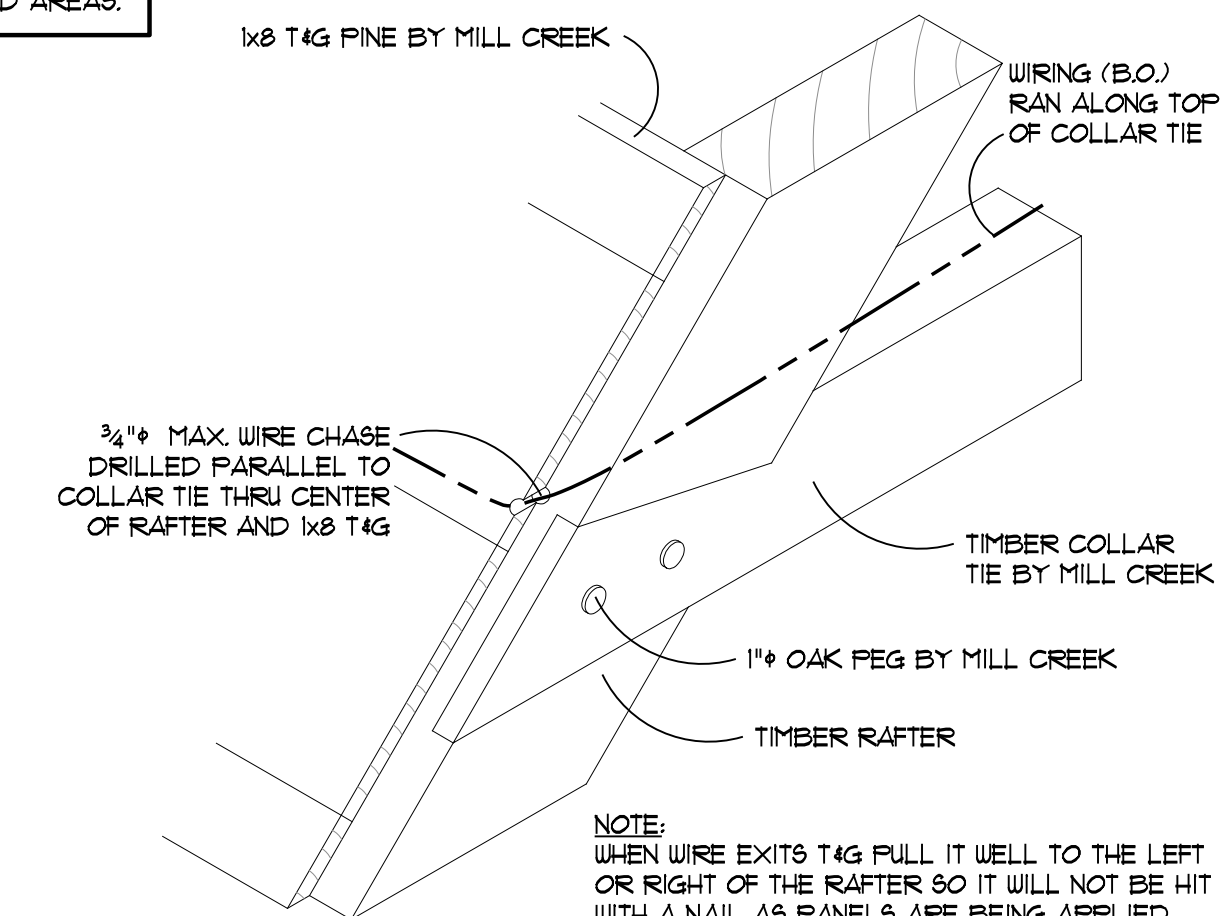


6 DB 3-D VIEW OF WIRING AT JOIST

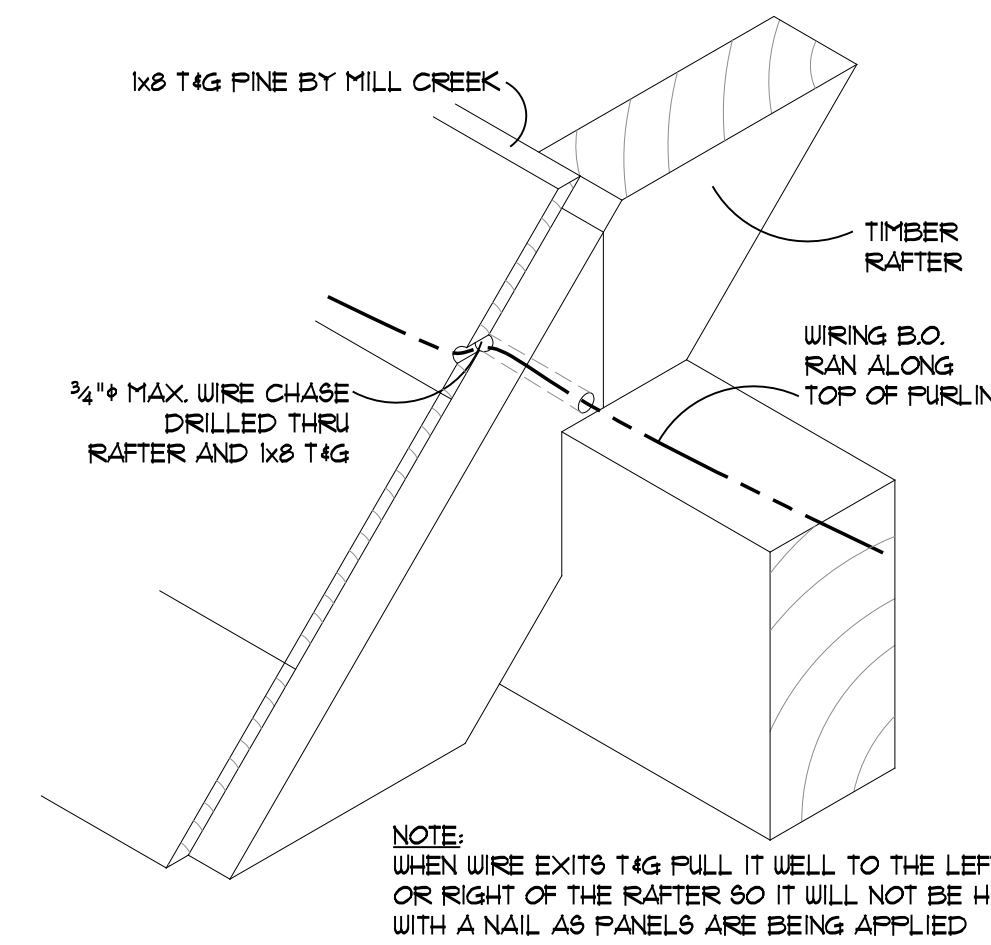


7 DB 3-D VIEW OF WIRING FOR TRACK LIGHT UNIT AT 2x8 T&G CEILING

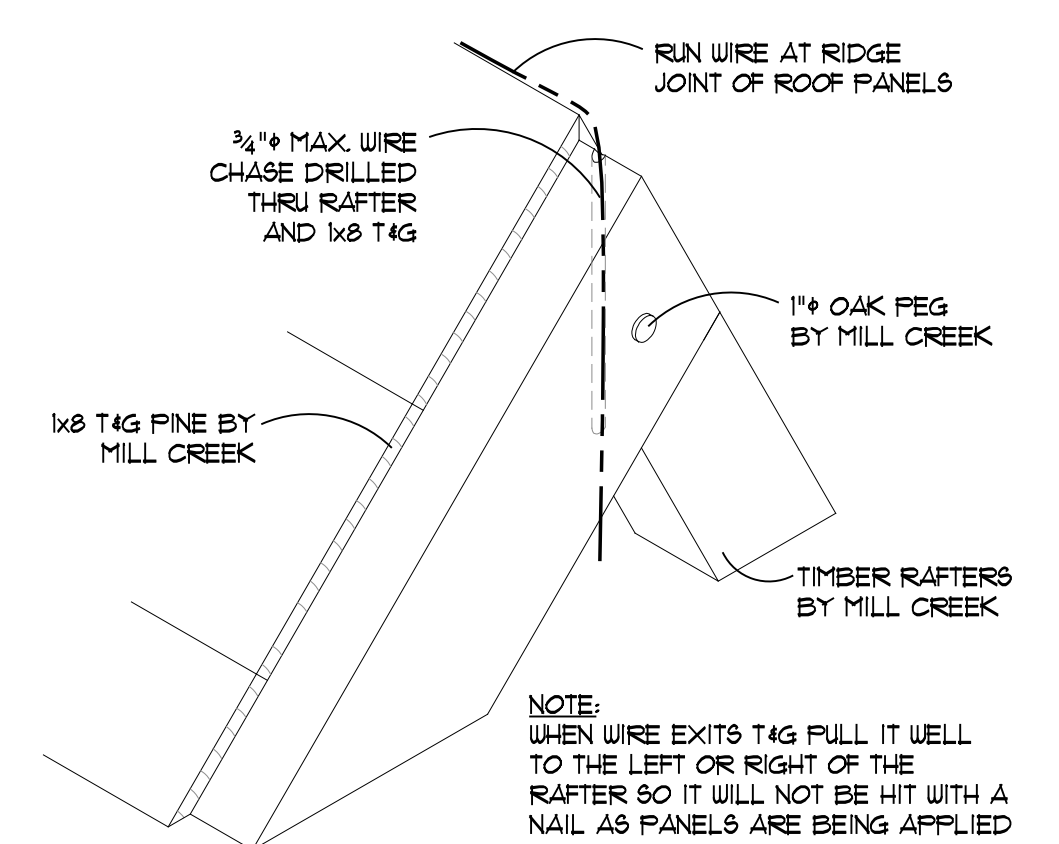
NOTE:
WIRE DROPS AND JUNCTION BOXES TO BE LOCATED PER LOCAL CODE AFTER FRAME ASSEMBLY. CONTRACTOR SHOULD LEAVE PLENTY OF ADDITIONAL WIRE TO REACH A JUNCTION BOX THAT WILL BE LOCATED LATER IN CONV. FRAMED AREAS.



8 DB 3-D VIEW OF WIRING AT COLLAR TIE



9 DB 3-D VIEW OF WIRING AT FURLIN (SIMILAR AT RIDGE BEAM)



10 DB 3-D VIEW OF WIRING DROP AT PEAK OF TIMBER RAFTERS

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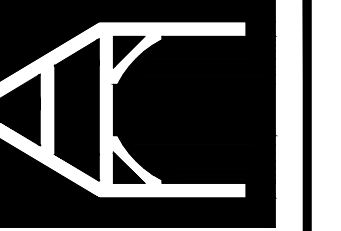
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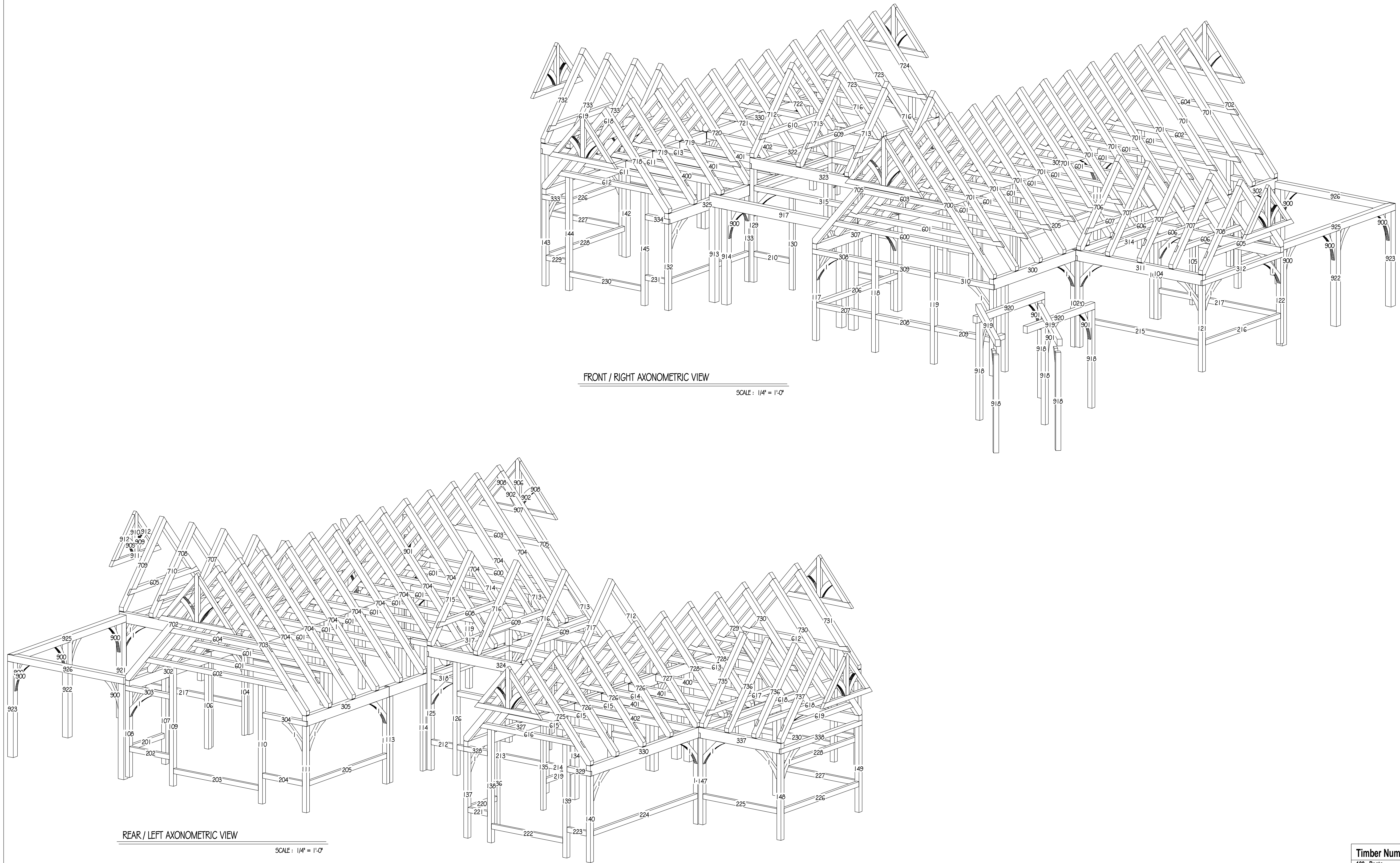
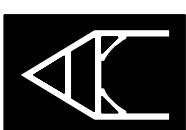
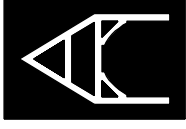
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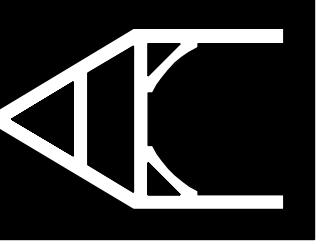
D5





FRONT / RIGHT AXONOMETRIC VIEW
SCALE: 1/4" = 1'-0"

REAR / LEFT AXONOMETRIC VIEW
SCALE: 1/4" = 1'-0"



SITE LOCATION: SPEARFISH, SD 57783

A RESIDENCE FOR: ERICK & DONNA SPANGLER

MILL CREEK POST & BEAM COMPANY

P.O. BOX 580 SALUDA, NC 28773

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DRAWN BY: HEG

CHECKED BY:

DATE: 09.7.21

PROJECT NO. 2103

DRAWING FRAME

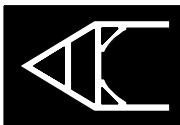
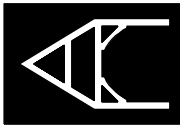
REVISIONS

Sheet Number

F1

Timber Number Key

- 100 - Posts
- 200 - Girts
- 300 - Plates, Girders, Purlins
- 400 - Joists
- 500 - Purlin Ties, Wall Ties
- 600 - Collar Ties
- 700 - Rafters
- 800 - Miscellaneous
- 900 - All Fir Exterior Timbers



STRUCTURAL DESIGN REQUIREMENTS

ASCE 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS
2018 INTERNATIONAL BUILDING CODE
2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION

DESIGN CRITERIA

DEAD LOAD:	15 PSF PLUS TIMBER SELF WEIGHT
SNOW LOAD:	
GROUND SNOW	40 PSF
EXPOSURE FACTOR, CE	0.9
IMPORTANCE FACTOR	1.0 (CATEGORY II BUILDINGS)
THERMAL FACTOR, CT	1.0
ROOF-SLOPE FACTOR	0.5
LIVE LOAD:	
ROOF	20 PSF
WIND LOAD:	
3-SECOND GUST WIND SPEED	110 MPH (ASCE 7-10 ULTIMATE)
EXPOSURE	C
RISK CATEGORY	II
WIND PRESSURE COEFF.	+/- 0.18
SEISMIC:	
RISK CATEGORY	II
IMPORTANCE FACTOR	1.0 (CATEGORY II BUILDINGS)
SEISMIC CLASS	D (ASCE 7-16)
SIDS, SDS	0.150G
SIDS, IBS	0.085G
DESIGN CATEGORY	A
RESPONSE MOD. FACTOR	6.5
RESPONSE COEFF.	0.020

ENGINEER NOTES:

GENERAL NOTES - TIMBER FRAME ELEMENTS HAVE BEEN DESIGNED TO RESIST GRAVITY LOAD ONLY. IT IS THE RESPONSIBILITY OF THE TIMBER FRAME SYSTEM PURCHASER (OWNER/INDUSTRY CONTRACTOR) TO VERIFY ALL DIMENSIONS INDICATED ON THE TIMBER FRAME SYSTEM DRAWINGS. SHRINKAGE OF TIMBERS MAY RESULT IN THE "LOOSENING" OF BOLTS AND ALL THREADED CONNECTIONS. PERIODIC TIGHTENING OF THESE CONNECTIONS DURING THE FIRST SEVERAL YEARS OF THE STRUCTURE'S SERVICE LIFE IS REQUIRED. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. DO NOT SCALE ANY DRAWINGS.

TIMBERS - UNLESS OTHERWISE NOTED, SOLID SAWN TIMBER SHALL BE DOUGLASS FIR #1 OR BETTER SIZED "N" UNDER STATED NOMINAL DIMENSION. TIMBERS MAY NOT BEAR A GRADE STRIP, BUT SHALL OTHERWISE MEET THE REQUIREMENTS OF #1 OR BETTER MATERIAL. SOME WARPING, TWISTING, AND CHECKING OF THE TIMBERS IS ANTICIPATED AS THEY REACH EQUILIBRIUM MOISTURE CONTENT.

TIMBER SCREWS - UNLESS NOTED OTHERWISE, ALL SCREWS SHALL BE BY GRK RSS OR ROTHBLAUBS TBS OR OTHER APPROVED SCREW, WITH A SHANK DIAMETER OF AT LEAST 0.2", AND A THREAD DIAMETER OF AT LEAST 0.30". SCREW HOLES SHALL NOT BE PRE DRILLED UNLESS OTHERWISE NOTED, AND HAVE AT LEAST 3" OF THREAD PENETRATION INTO THE CONNECTING MEMBER.

TIMBER FRAME JOINERY - UNLESS OTHERWISE CALLED OUT IN JOINERY DETAILS ON THE STRUCTURAL AND TIMBER FRAME DRAWINGS, THE JOINERY SHOULD MEET THE FOLLOWING REQUIREMENTS, AND BE DETAILED IN ACCORDANCE WITH THE TREC 1-19.

ALL PEGS SHALL BE 1" IN DIAMETER, AND MEET THE REQUIREMENTS OF TREC 1-19.

TENONS CONNECTING MEMBERS IN 6X MATERIAL AND LARGER (SMALLEST DIRECTION), SHALL BE 2" THICK AND 5" IN LENGTH, WITH 3" OF RELISH. IN 6X MATERIAL, 1 1/2" THICK, 4" LONG TENONS WITH 2" RELISH SHALL BE USED. 4X AND SMALLER MATERIAL, INCLUDING BRACES UNLESS OTHERWISE CALLED OUT) AND STRUTS, SHALL HAVE 1 1/2" THICK TENON, AT LEAST 3 1/2" IN LENGTH, AND 2 1/2" OF RELISH.

WHERE TENON INTERFERENCE OCCURS, TENONS SHALL BE AS LONG AS POSSIBLE, AND OFFSET (HORIZONTAL) WHERE POSSIBLE, IN THREE-WAY AND FOUR-WAY CONNECTIONS. 1 1/2" THICK HARDWOOD (SPECIFIC GRAVITY EQUAL TO OR GREATER THAN THE CONNECTING TIMBERS) OR 1 1/2" LVL SPLINES ARE STRONGLY ENCOURAGED.

HOUSINGS FOR 6X AND LARGER STOCK SHALL BE 1" UNLESS SPECIFIED OTHERWISE. WHERE 6X FIRMING IS NOT DIRECTLY SUPPORTING THE ROOF OR FLOOR LOADS, 1/2" STUD TENONS MAY BE USED IN PLACE OF FULL 1" HOUSINGS. 4X MATERIAL, INCLUDING BRACES, SHALL BE HOUSED 1/2". GIRDERS, MOUNTS, REDUCIONS, AND COPES NOT SUPPORTED BY A BEARING SURFACE SHALL NOT EXCEED MORE THAN 1/4" THE MEMBER DEPTH WITHOUT REQUIRING FURTHER REINFORCEMENT. UNLESS OTHERWISE SPECIFIED, BARTERS AND PURLINS SHALL BE SECURED INTO THEIR HOUSINGS AND SUPPORTS WITH LUG SCREWS: (1) SCREW AT EACH END FOR 6X AND SMALLER MATERIAL, (2) SCREWS AT EACH END FOR 6X AND LARGER MATERIAL.

DOVETAIL CONNECTIONS - UNLESS OTHERWISE NOTED, ROUNDED DOVETAIL CONNECTIONS SHALL HAVE A DEPTH OF 1" AND SHALL EXTEND FOR AT LEAST (1) THE DEPTH AND (1) THE WIDTH (AT THE TOP OF FACE) OF THE CONNECTING (SUPPORTING) MEMBER. THE CONNECTIONS SHALL HAVE A CORNER ANGLE OF AT LEAST 10 DEGREES AND A WEDGE ANGLE OF 75 DEGREES.

DIMENSIONAL LUMBER - ALL 2X DIMENSIONAL LUMBER SHALL BE SPRUCE-PINE-FIR NO. 1/NO. 2 OR OTHER SPECIES WITH EQUIVALENT ALLOWABLE DESIGN STRENGTHS. 2X MATERIAL SHALL BE PLANNED TO 1/2" TO 3/4" UNDER STATED DIMENSION. ALL SILL PLATES AND DIMENSIONAL WOOD FIRMING IN CONTACT WITH CONCRETE AND MASONRY SHALL BE PRESERVATIVE TREATED WOOD IN COMPLIANCE WITH AFWA-U1 OR A NATURALLY BODY RESISTANT SPECIES.

ENGINEERED WOOD PRODUCTS - ALL LAMINATED VENER LUMBER (LVL) SHALL HAVE A MINIMUM ALLOWABLE BENDING STRESS OF Fb = 2,600 PSI AND A MODULUS OF ELASTICITY OF E = 2,000,000 PSI. ALL ENGINEERED WOOD PRODUCTS SHALL BE KEPT DRY DURING TRANSPORTATION AND STORAGE, AND SHALL HAVE BEEN SUCCESSFULLY EVALUATED UNDER NER 119. ALL WOOD JOISTS AND TRUSS JOISTS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S STANDARD RECOMMENDATIONS FOR BRACING, BEARING LENGTHS, STIFFENERS, SOUPH BLOCKS, KNOCK OUTS, HOLES, AND BRACING. WHERE DIMENSIONAL LUMBER ROOF TRUSSES ARE USED, THE FABRICATOR SHALL SUBMIT LAYOUT PLANS AND ENGINEERING DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.

DECKING - UNLESS OTHERWISE NOTED, ALL ROOF DECKING SHALL BE 2X6 T&G "SELECT" DOUGLASS FIR DECKING. EACH DECKING PIECE MUST BE CONTINUOUS OVER AT LEAST TWO SPANS. SECURE WITH (1) 16d FACE AND NAIL (1) 16d TOE NAIL THROUGH THE TONGUE AT EACH SUPPORT LOCATION.

STRUCTURAL SHEATHING - STRUCTURAL SHEATHING SHALL BE APPROXIMATED AND NOT EXCEED THE SPAN RATING FOR ITS INTENDED USE, WITH A MINIMUM THICKNESS OF 15/32" FOR WALLS, 19/32" FOR ROOFS, AND 23/32" FOR FLOORS.

NAILS - UNLESS OTHERWISE CALLED OUT IN THE PLANS FOR MORE STRINGENT NAILING, NAILING SHALL MEET OR EXCEED THE NAILING IN TABLE R602.3 (1) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS IN THE REFERENCED BUILDING CODE. ALL NAILS SPECIFIED ARE COMMON WHEN AIR GUN NAILING IS USED. CARE SHALL BE TAKEN TO USE TRUE COMMON NAIL EQUIVALENTS REGARDING DIAMETER, 18g = 0.131" DIAMETER, 16g = 0.148" DIAMETER, 14g = 0.162" DIAMETER.

WOOD CONNECTIONS - ALL STEEL FASTENERS OR CONNECTIONS IN CONTACT WITH PRESURVATIVE TREATED LUMBER SHALL BE ZINC COATED IN ACCORDANCE WITH ASTM A 153, MADE OF STAINLESS STEEL, OR SHOW A SIMILAR LEVEL OF CORROSION PROTECTION.

STRAPS AND HOLD-DOWNS - ALL STRAPS AND HOLD-DOWNS ARE BY SIMPSON STRONG-TIE OR EQUIVALENT.

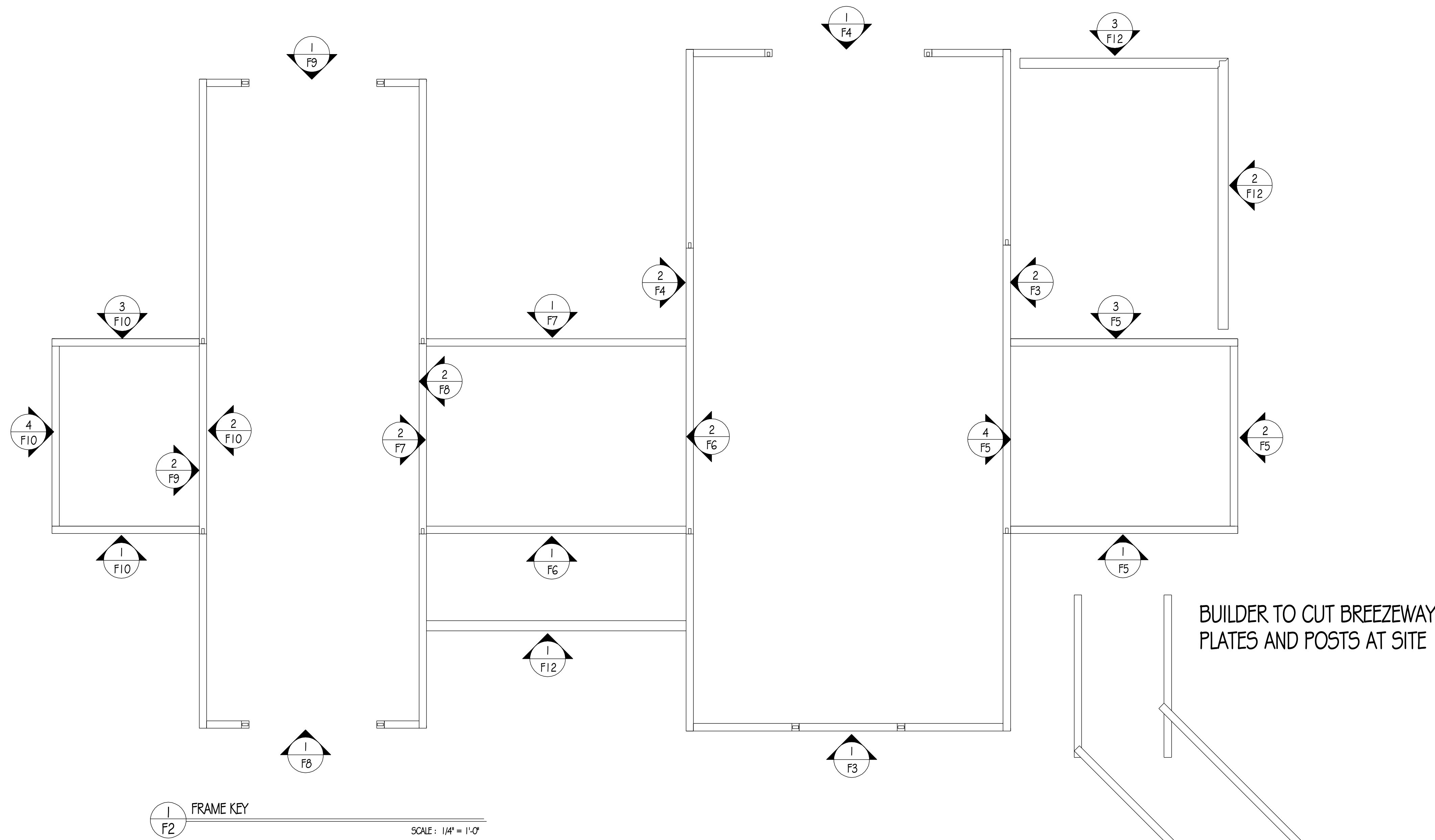
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ENGINEER NOTES:

STRUCTURAL INSULATED PANELS SHALL BE CAPABLE OF WITHSTANDING THE APPLIED DESIGN LOADS. SHOP DRAWINGS SHALL BE PROVIDED BY THE MANUFACTURER AND SUBMITTED TO THE STRUCTURAL ENGINEER BEFORE INSTALLING. PANELS SHALL HAVE AN ICC-ES REPORT OR BE GOVERNED BY NIA 14.1/519A DESIGN GUIDE. SHEAR WALL DETAILING MUST ACHIEVE AT LEAST 250 PLF WITH DIAPHRAGMS ACHIEVING A MINIMUM OF 200 PLF WITH DIAPHRAGMS ACHIEVING A MINIMUM OF 5" O.C. FROM BOTH FACES. PANEL SCREWS SHALL HAVE A MINIMUM THREAD DIAMETER OF 0.255" AND A SHANK DIAMETER OF AT LEAST 0.190" AND A MINIMUM HEAD DIAMETER OF 0.625". 2" DIA. WASHERS SHALL BE USED WITH SCREWS IN ALL ROOF PANELS. UNLESS OTHERWISE CALLED OUT ON THE PANEL DRAWINGS, SCREWS SHALL BE SPACED NO MORE THAN 2' O.C. 5 SCREWS SHALL BE OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 1" OF PENETRATION INTO THE CONNECTING MEMBER.

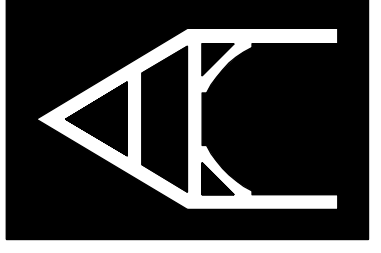
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FRAME KEY SCALE: 1/4" = 1'-0"

ERICK & DONNA SPANGLER A RESIDENCE FOR: SPEARFISH, SD 57783



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PROJECT NO. 2103

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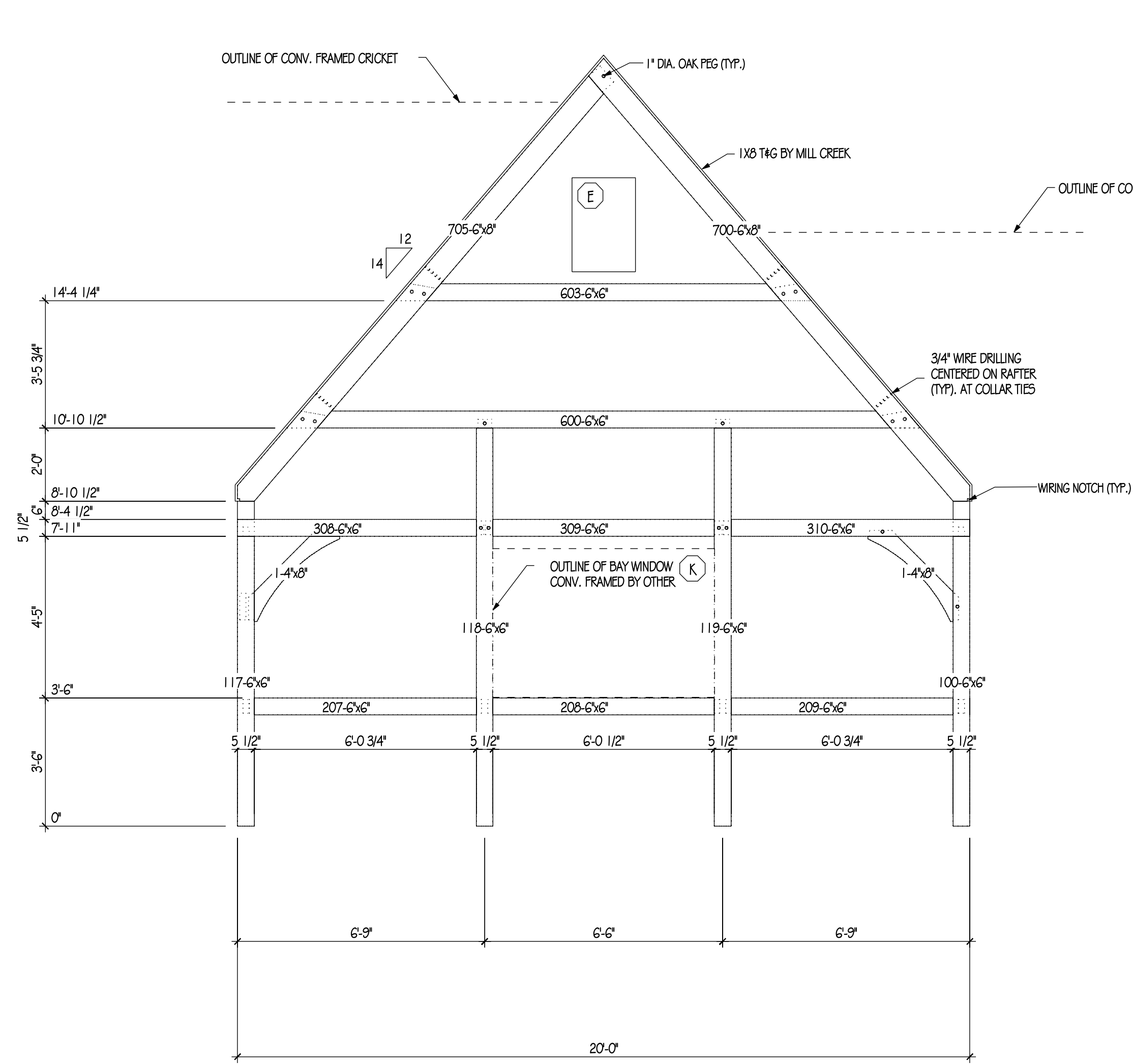
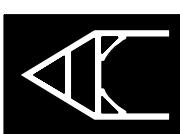
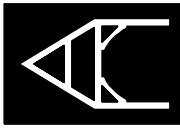
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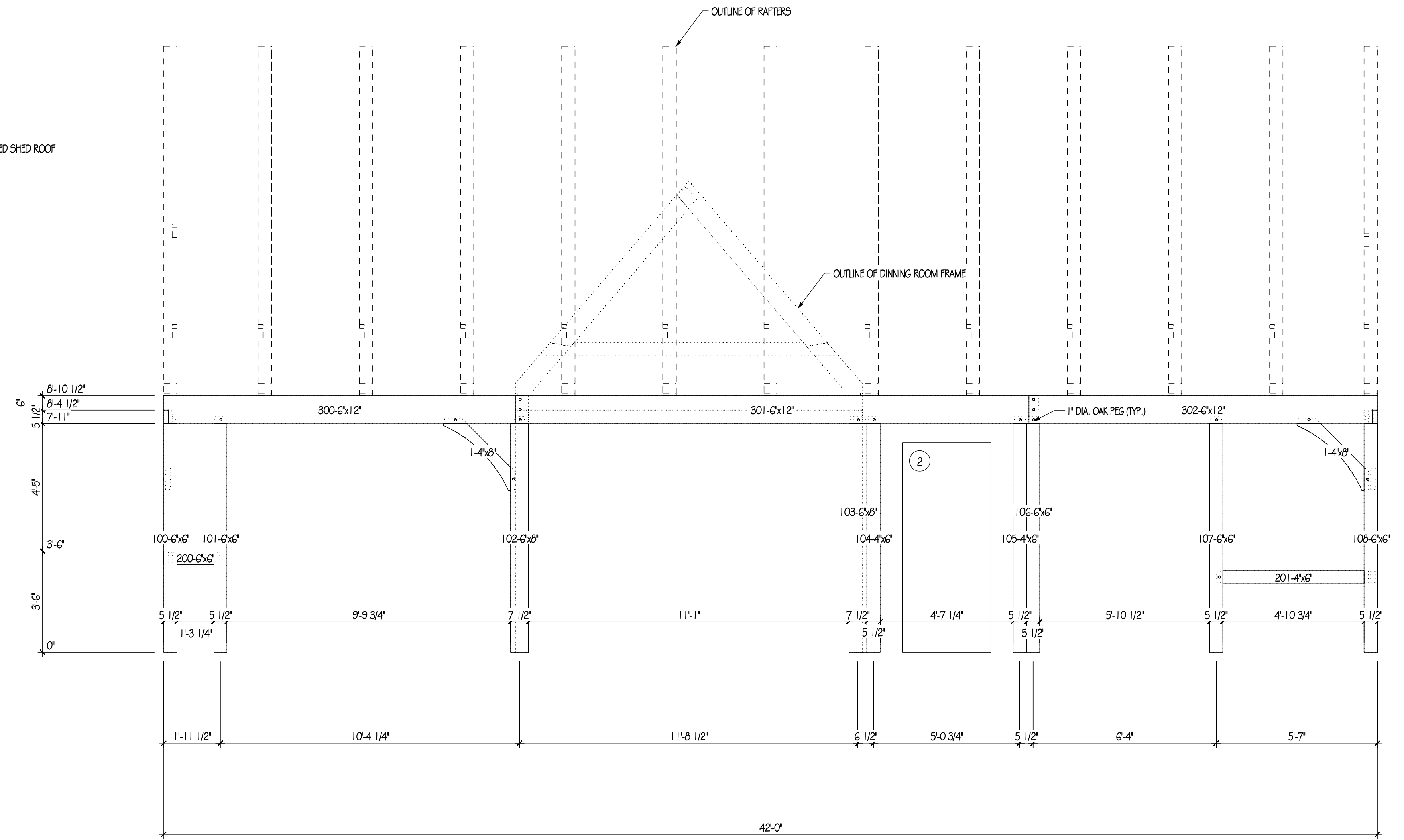
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Timber Number Key

100 - Posts
200 - Girts
300 - Plates, Girders, Purlins
400 - Joists
500 - Purlin Ties, Wall Ties
600 - Collar Ties
700 - Rafter
800 - Miscellaneous
900 - All Fir Exterior Timbers



1 FRONT FRAME WALL
 F3 GREAT ROOM
 SCALE: 3/8" = 1'-0"



2 RIGHT FRAME WALL
 F3 GREAT ROOM
 SCALE: 3/8" = 1'-0"

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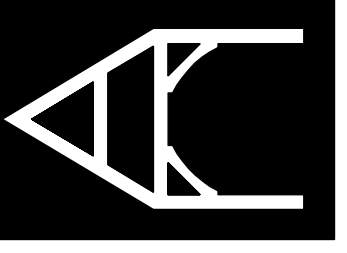
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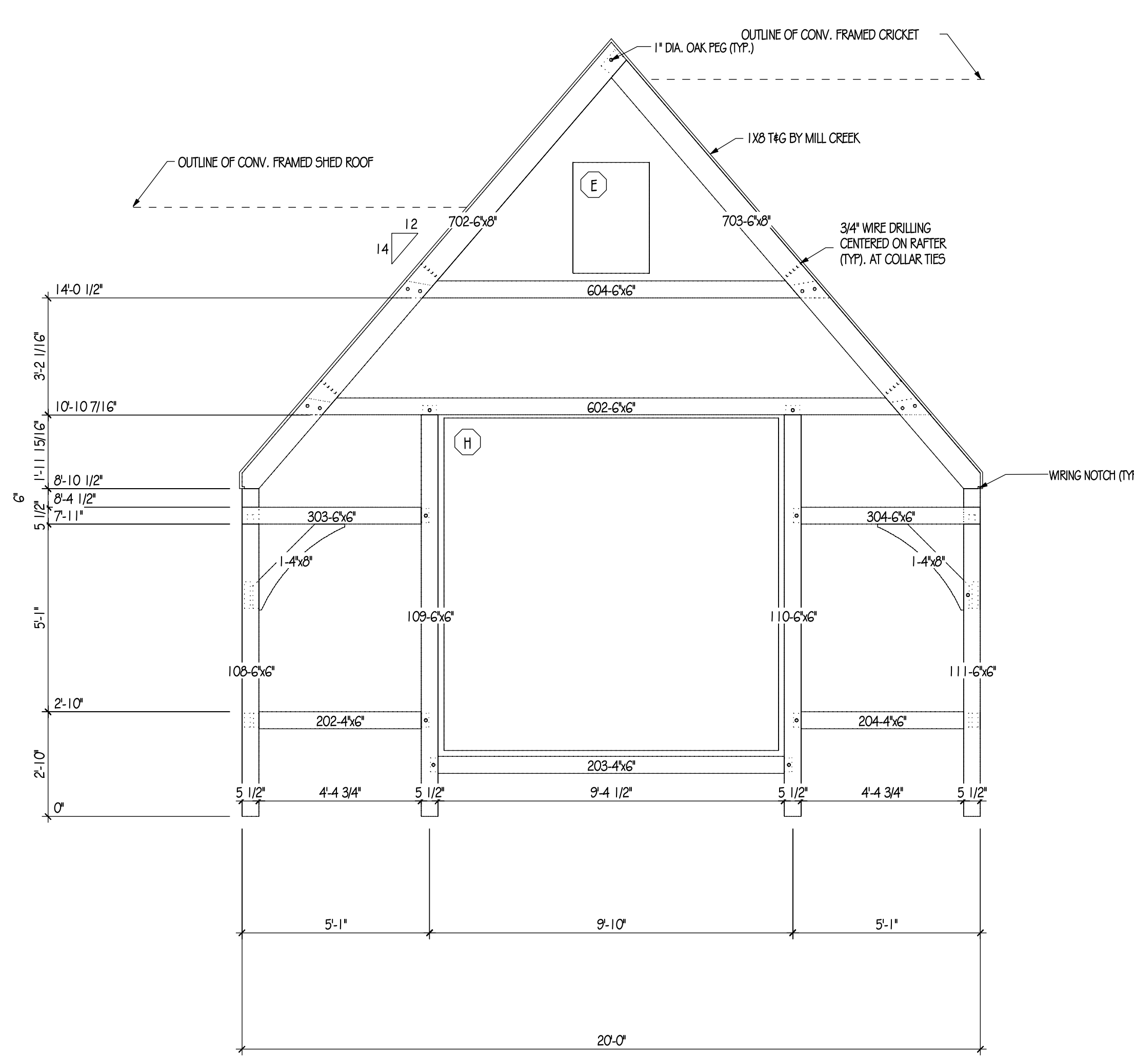
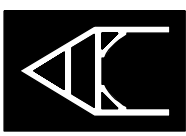
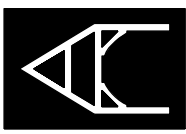
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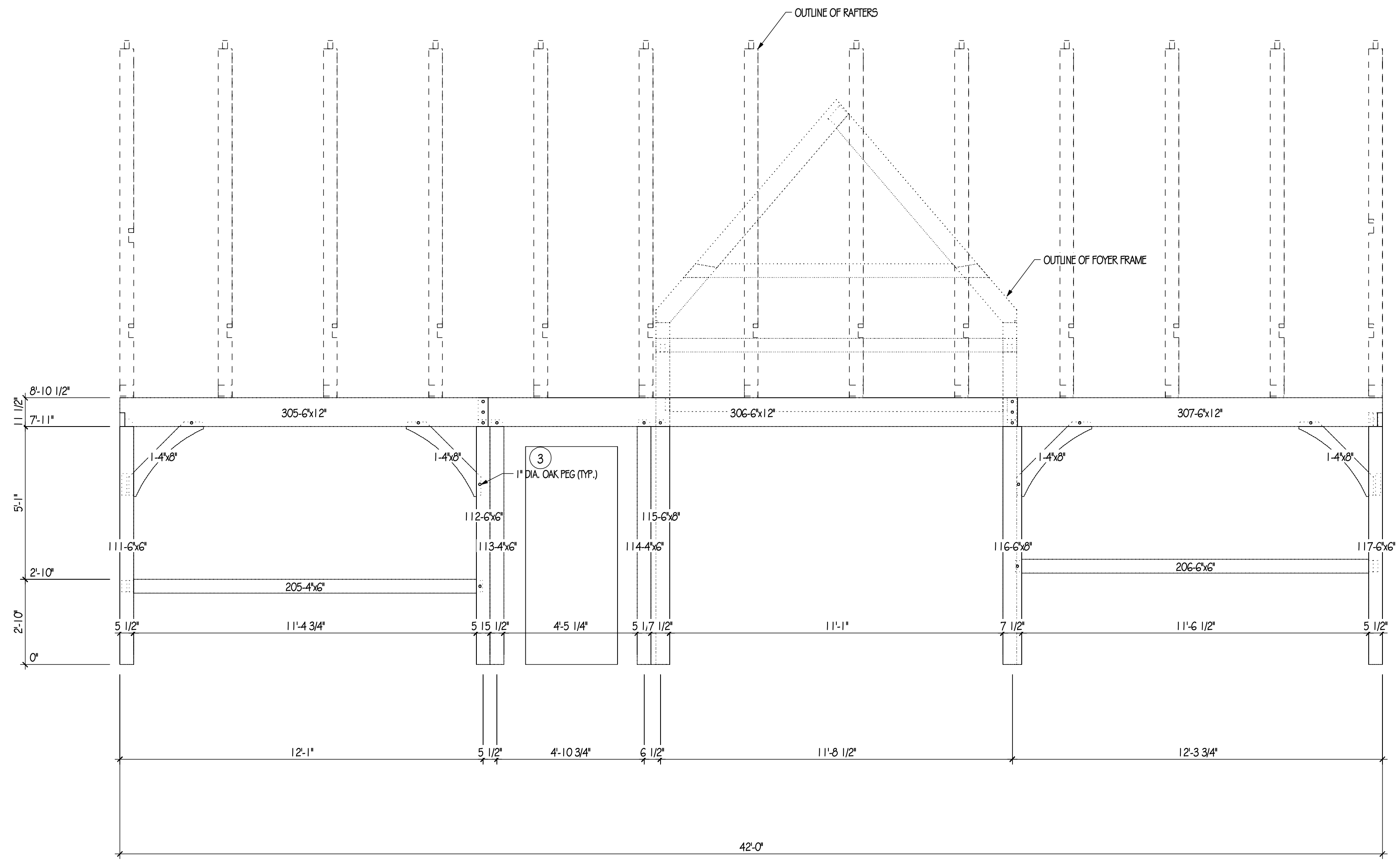
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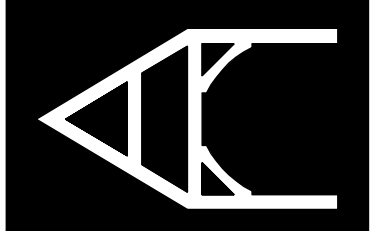




1 REAR FRAME WALL
 F4 GREAT ROOM FRAME SCALE: 3/8" = 1'-0"



2 LEFT FRAME WALL
 F4 GREAT ROOM FRAME SCALE: 3/8" = 1'-0"



SITE LOCATION: SPEARFISH, SD 57783

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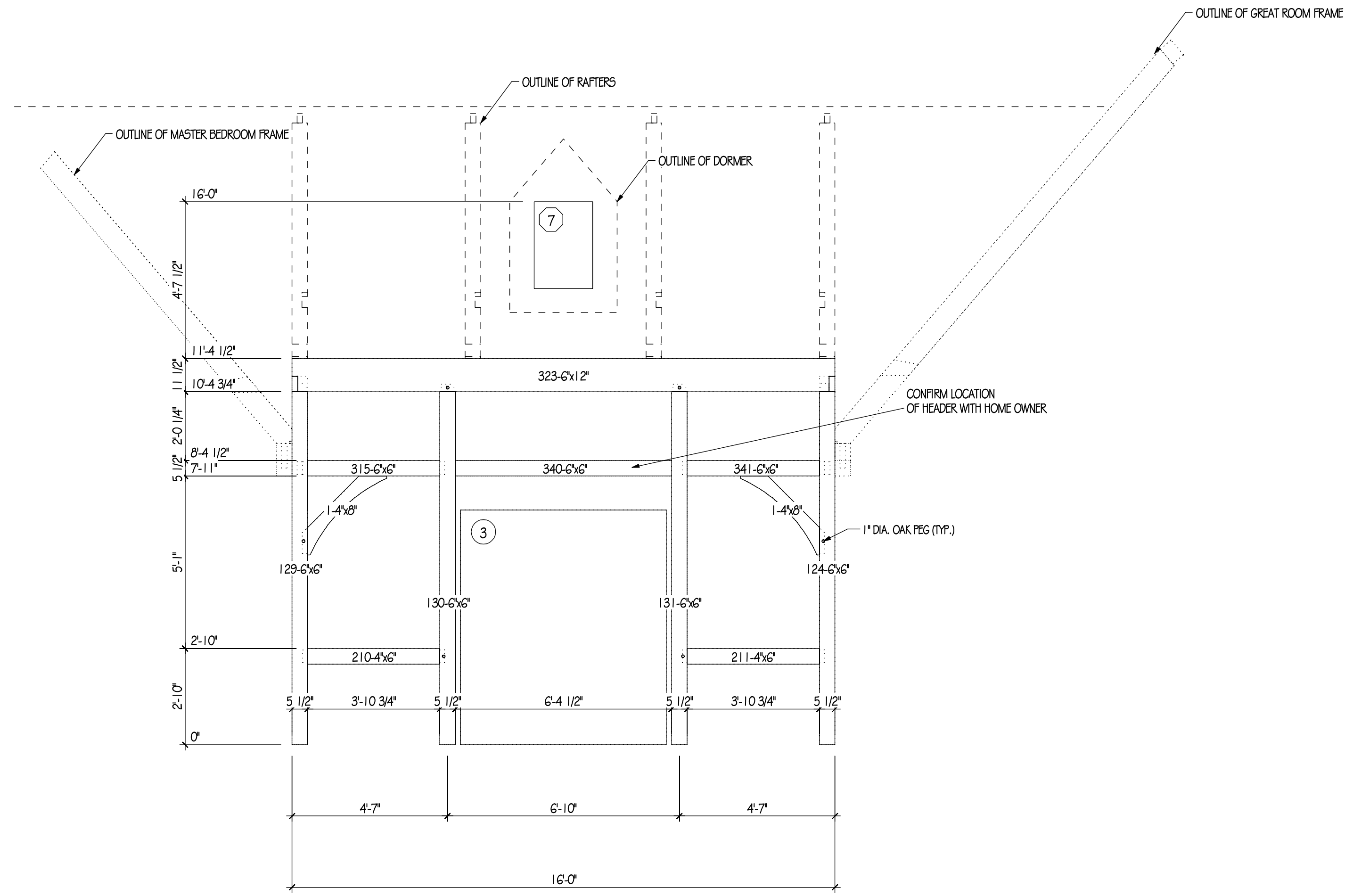
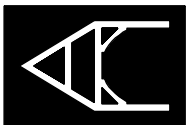
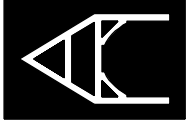
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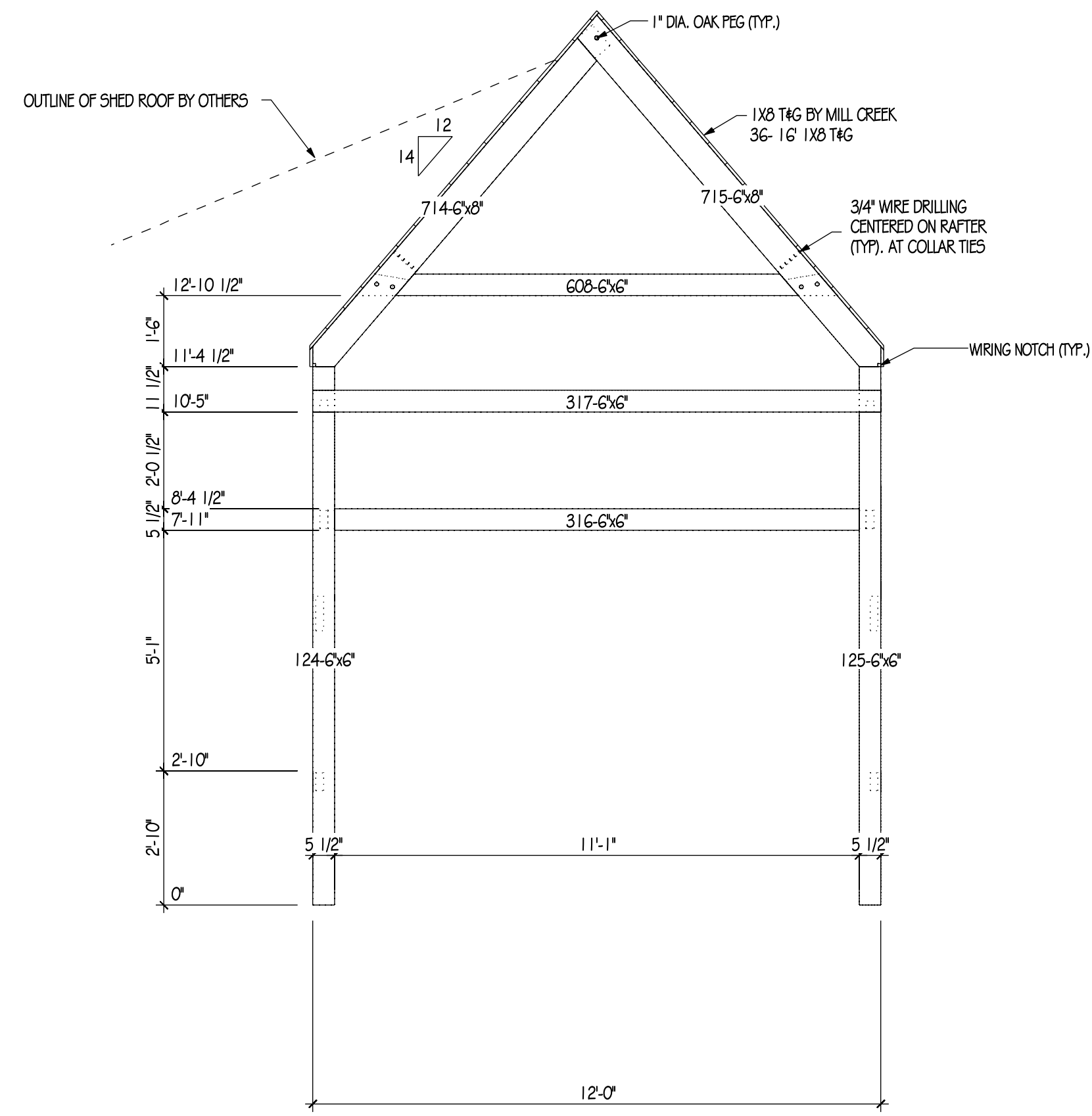
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Sheet Number
F4

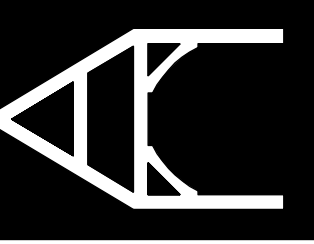


1 FRONT FRAME WALL
FOYER FRAME SCALE: 3/8" = 1'-0"



2 RIGHT FRAME WALL
FOYER FRAME SCALE: 3/8" = 1'-0"

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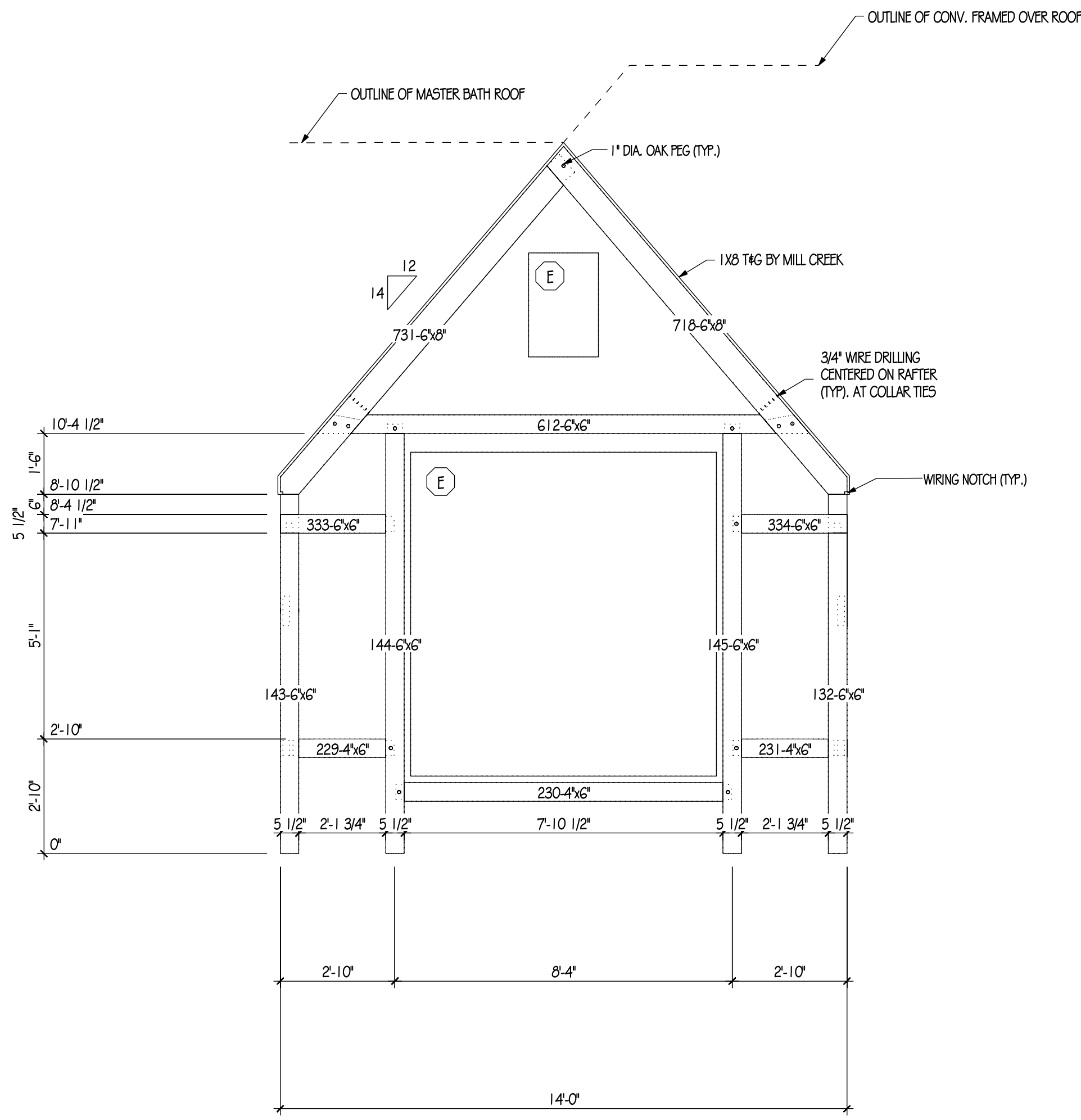
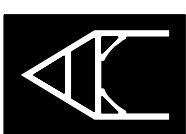
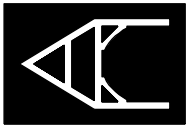
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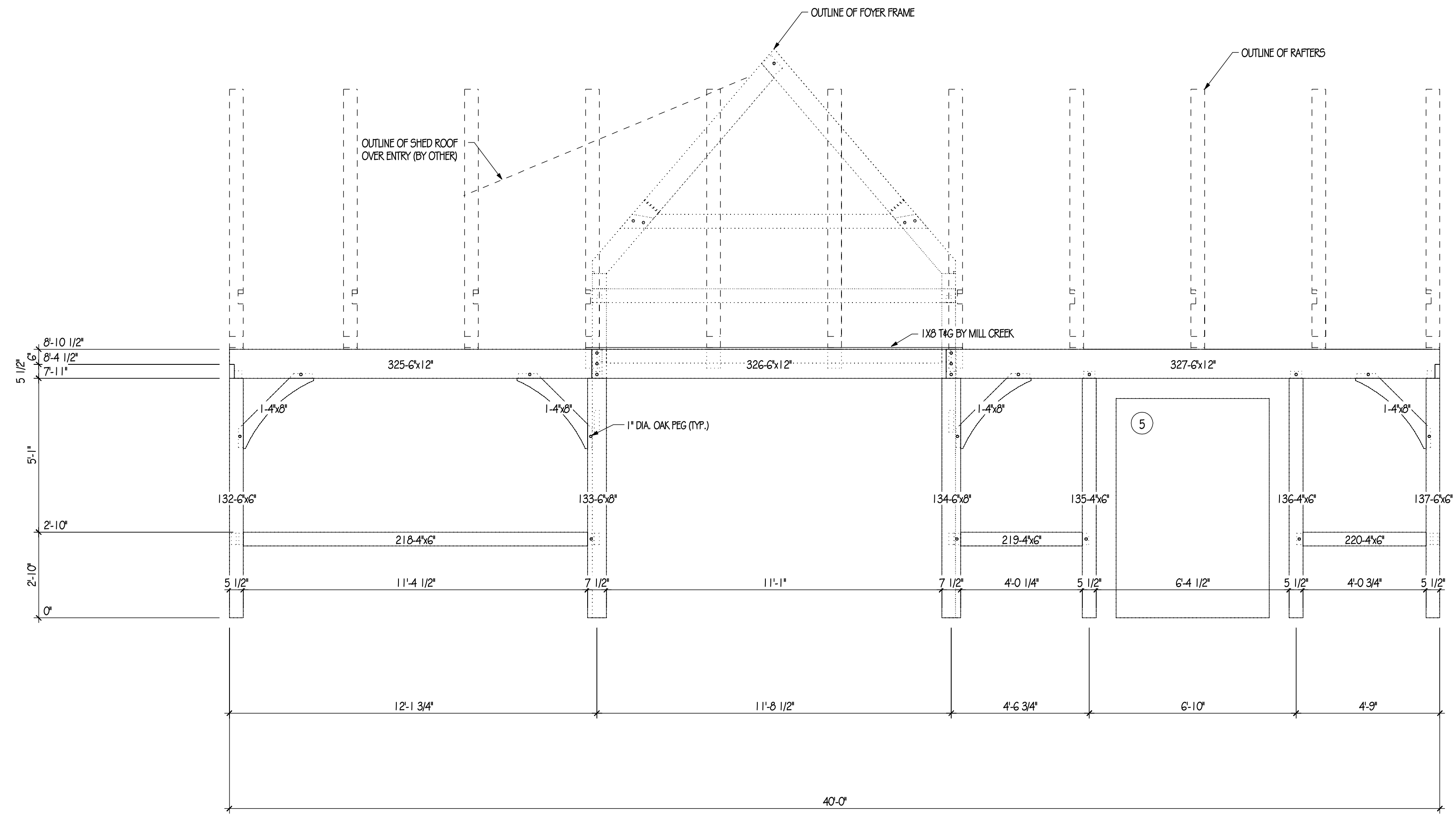
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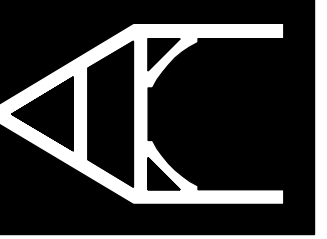
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F6



1 FRONT FRAME WALL
 F8 MASTER BEDROOM FRAME
 SCALE: 3/8" = 1'-0"



2 RIGHT FRAME WALL
 F8 MASTER BEDROOM FRAME
 SCALE: 3/8" = 1'-0"



SPEARFISH, SD 57783

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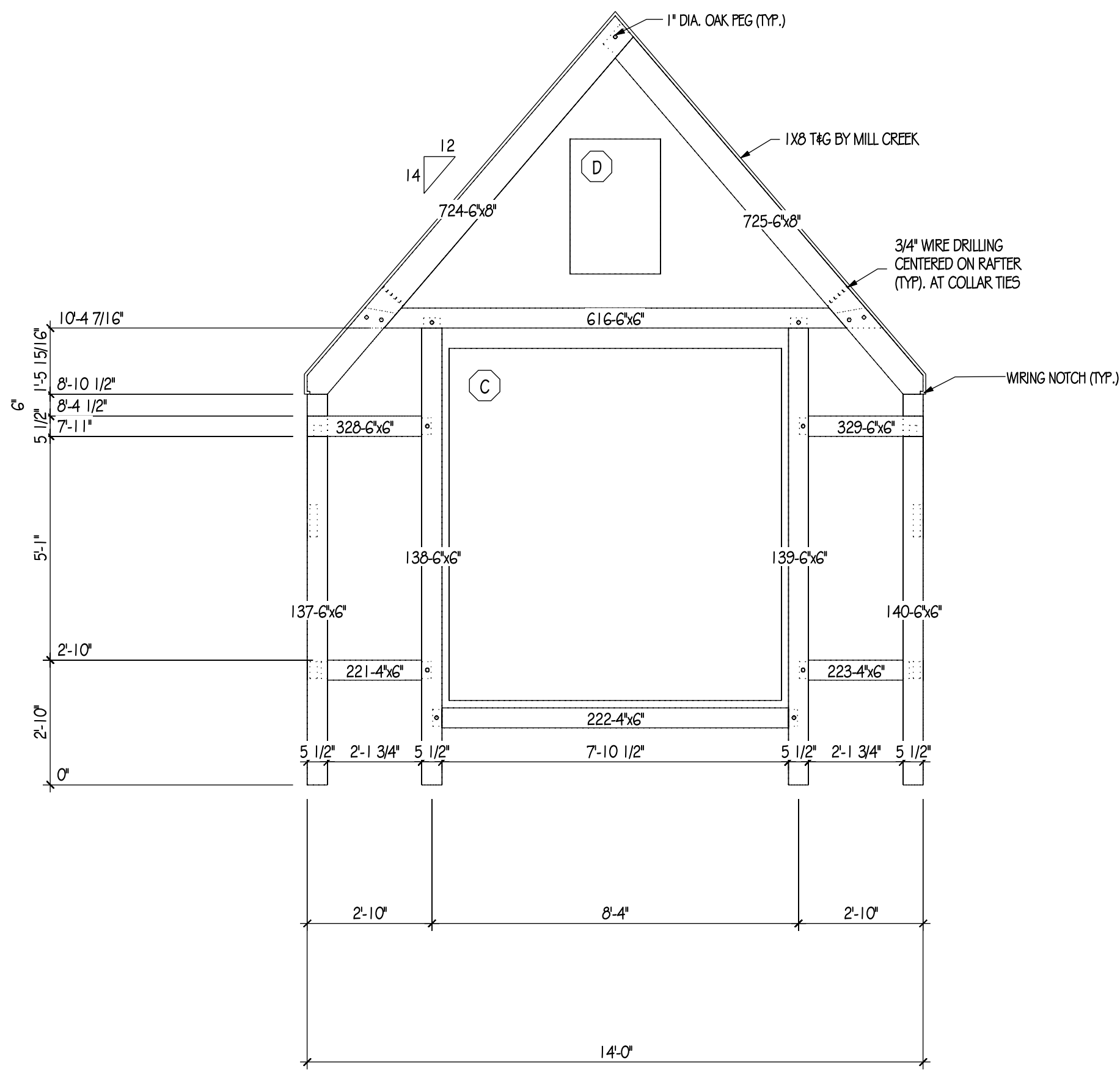
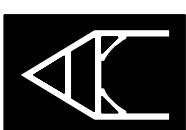
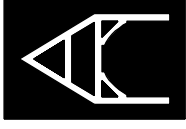
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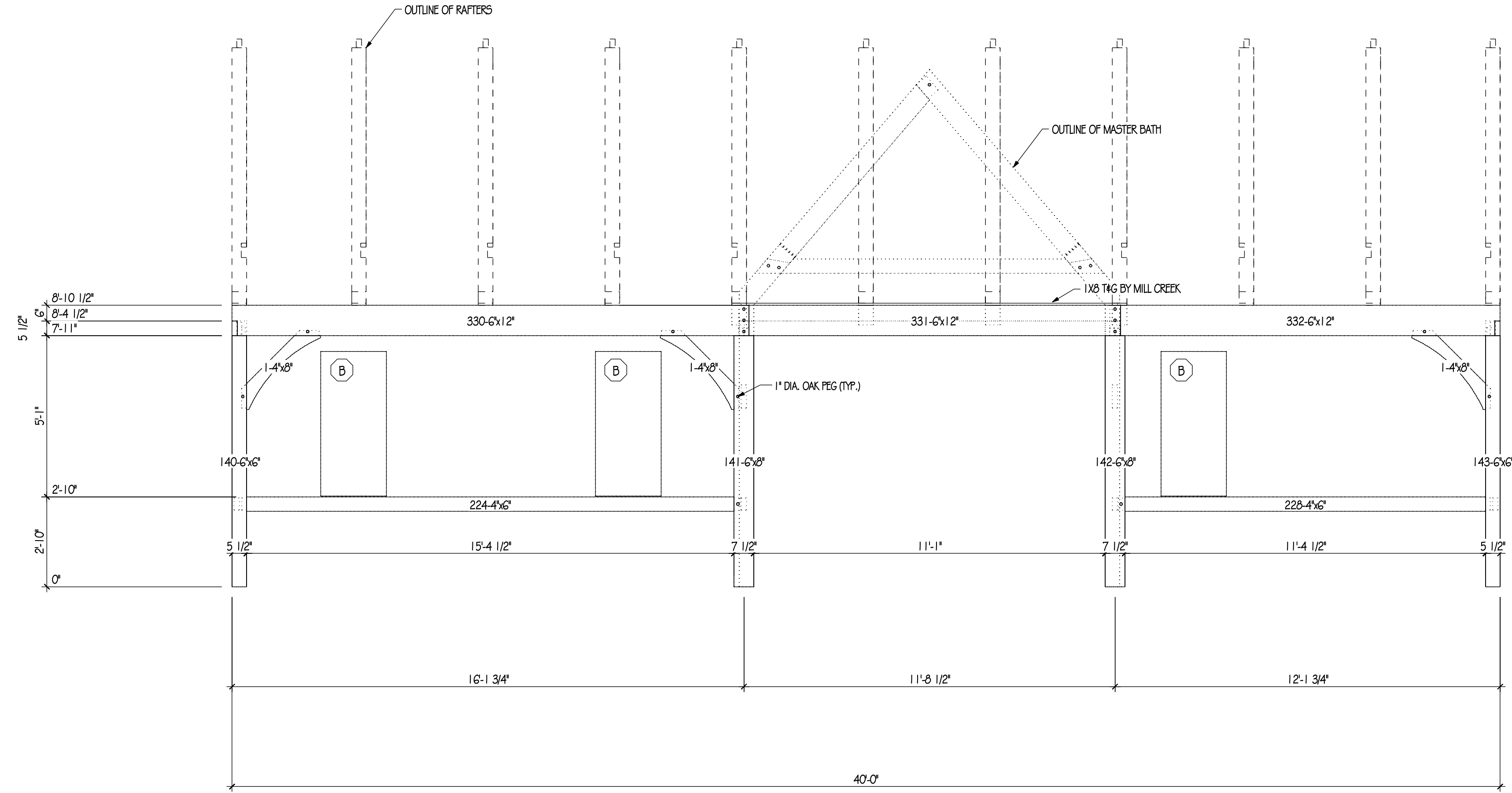
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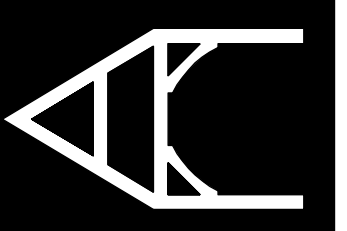


1 REAR FRAME WALL
 F9 MASTER BEDROOM FRAME
 SCALE: 3/8" = 1'-0"



2 LEFT FRAME WALL
 F9 MASTER BEDROOM FRAME
 SCALE: 3/8" = 1'-0"

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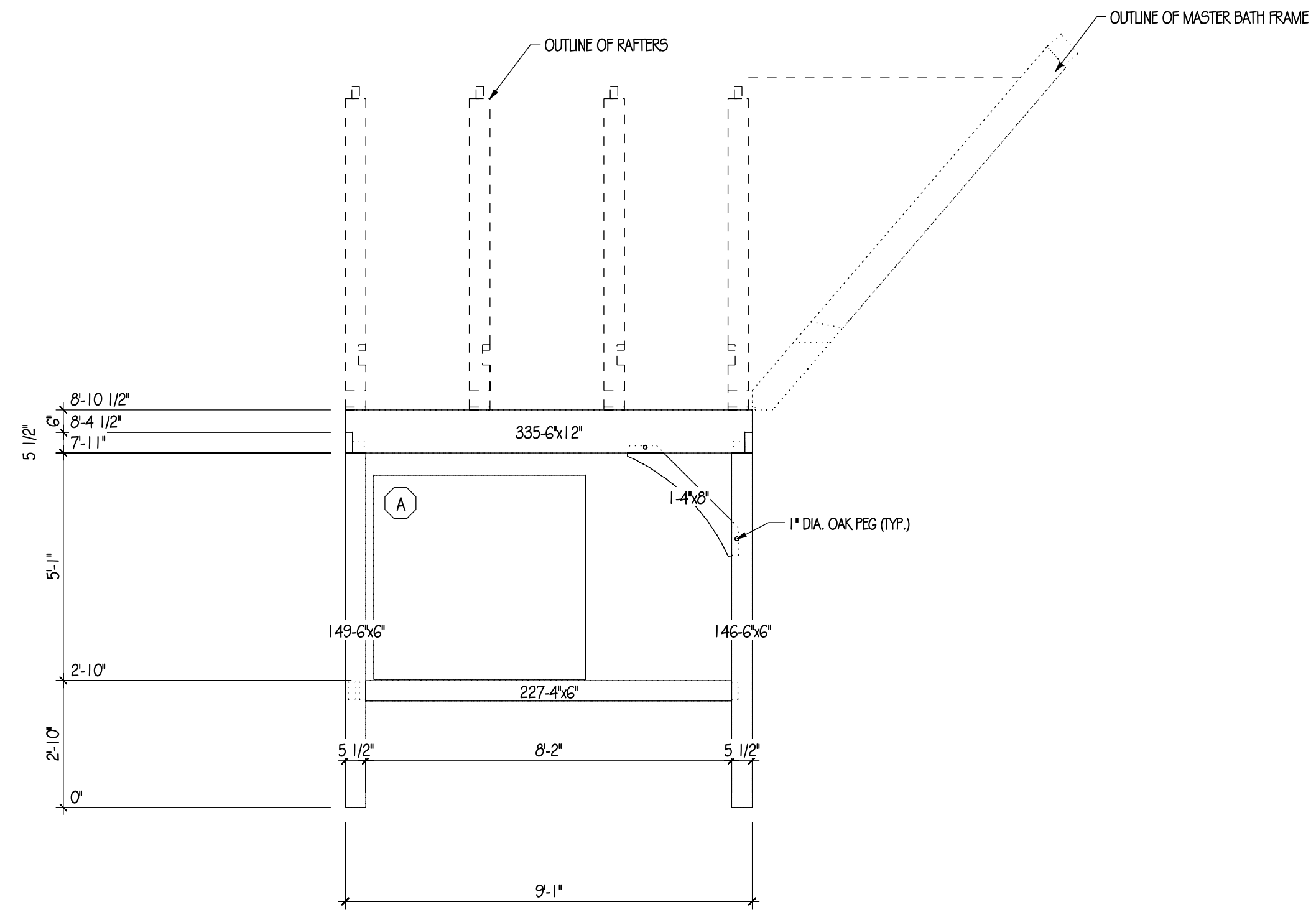
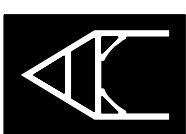
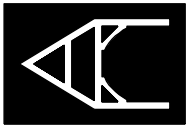
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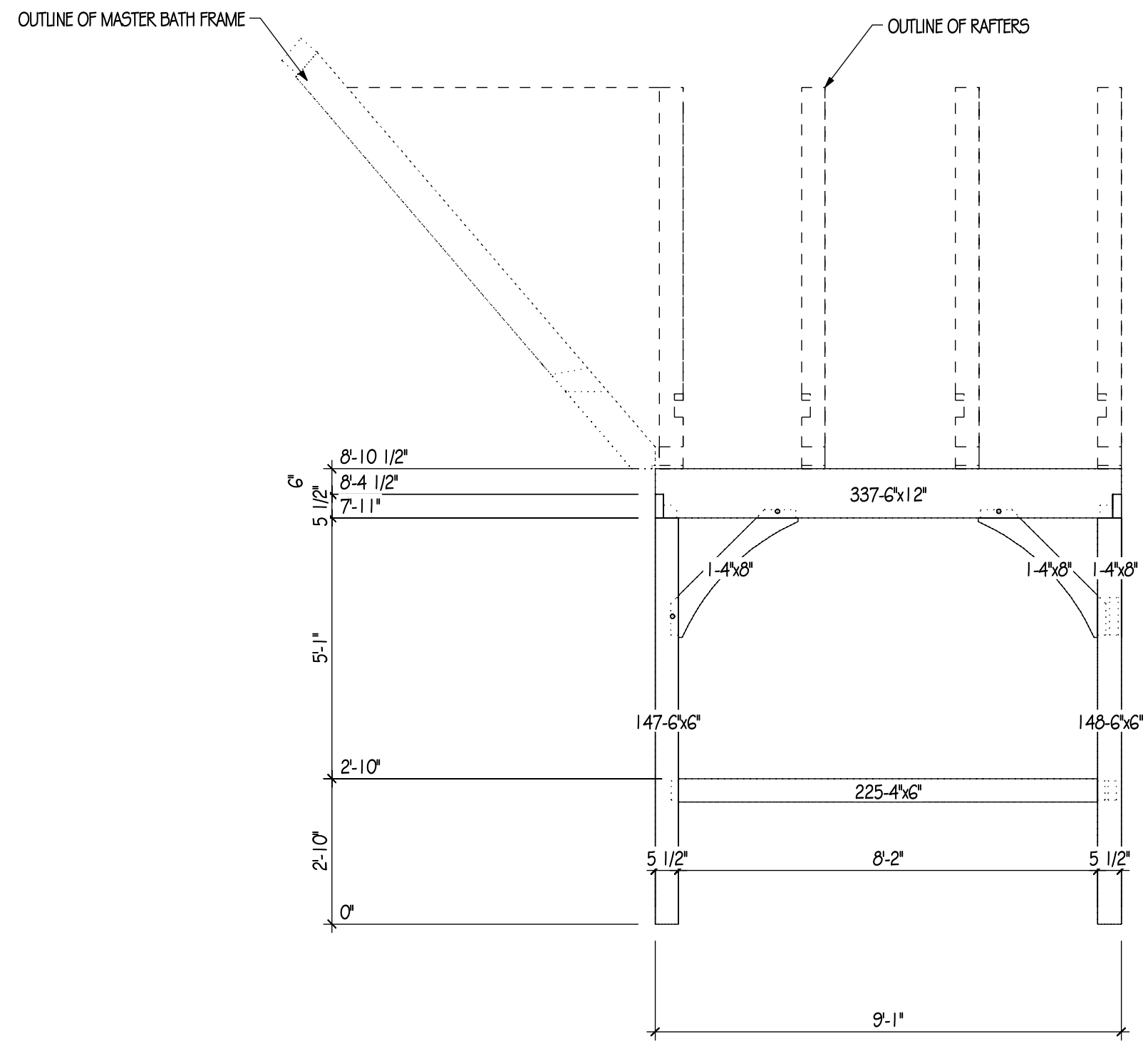
REVISIONS

Timber Number Key	
100 - Posts	
200 - Girts	
300 - Plates, Girders, Purlins	
400 - Joists	
500 - Purlin Ties, Wall Ties	
600 - Collar Ties	
700 - Rafters	
800 - Miscellaneous	
900 - All Fir Exterior Timbers	

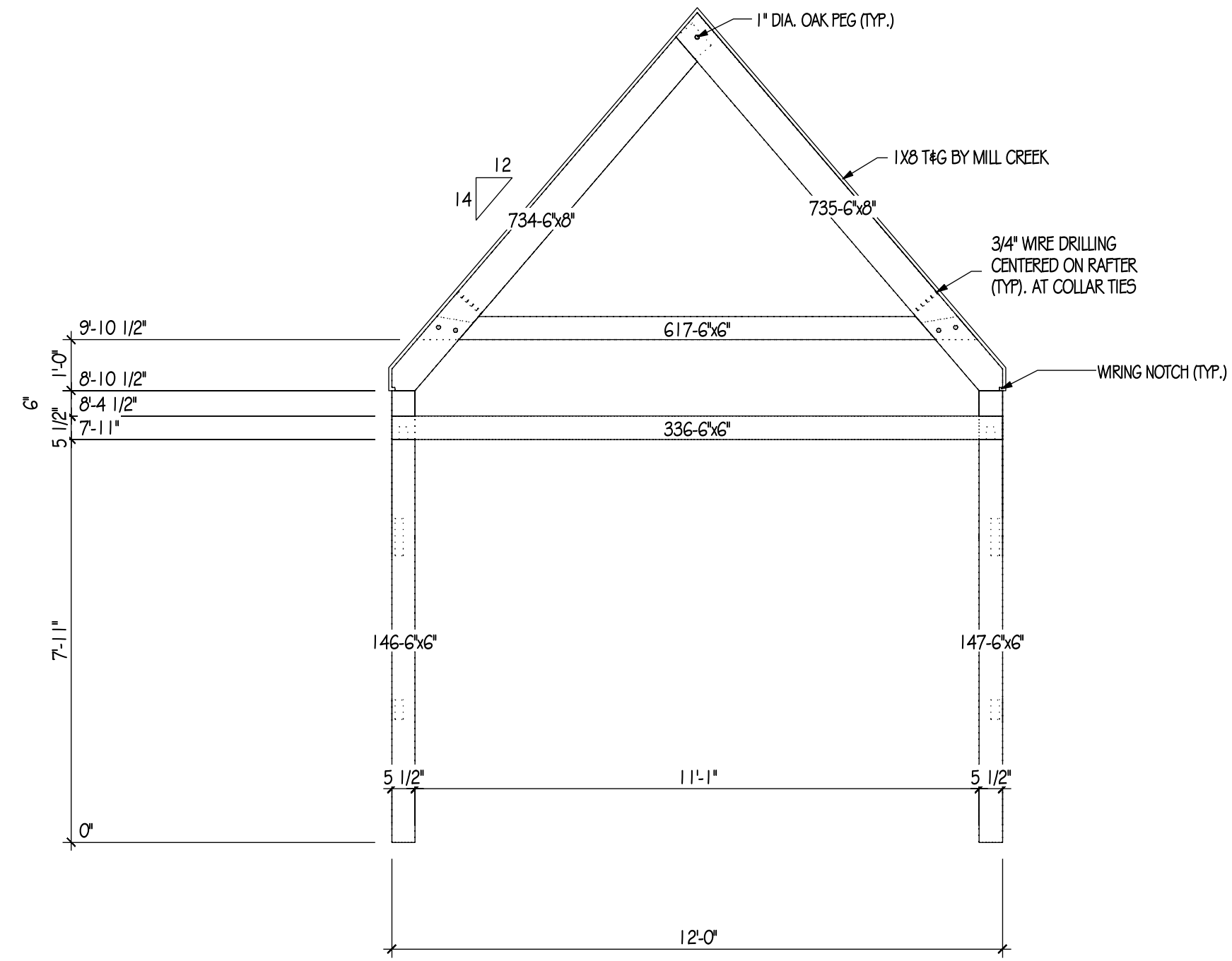
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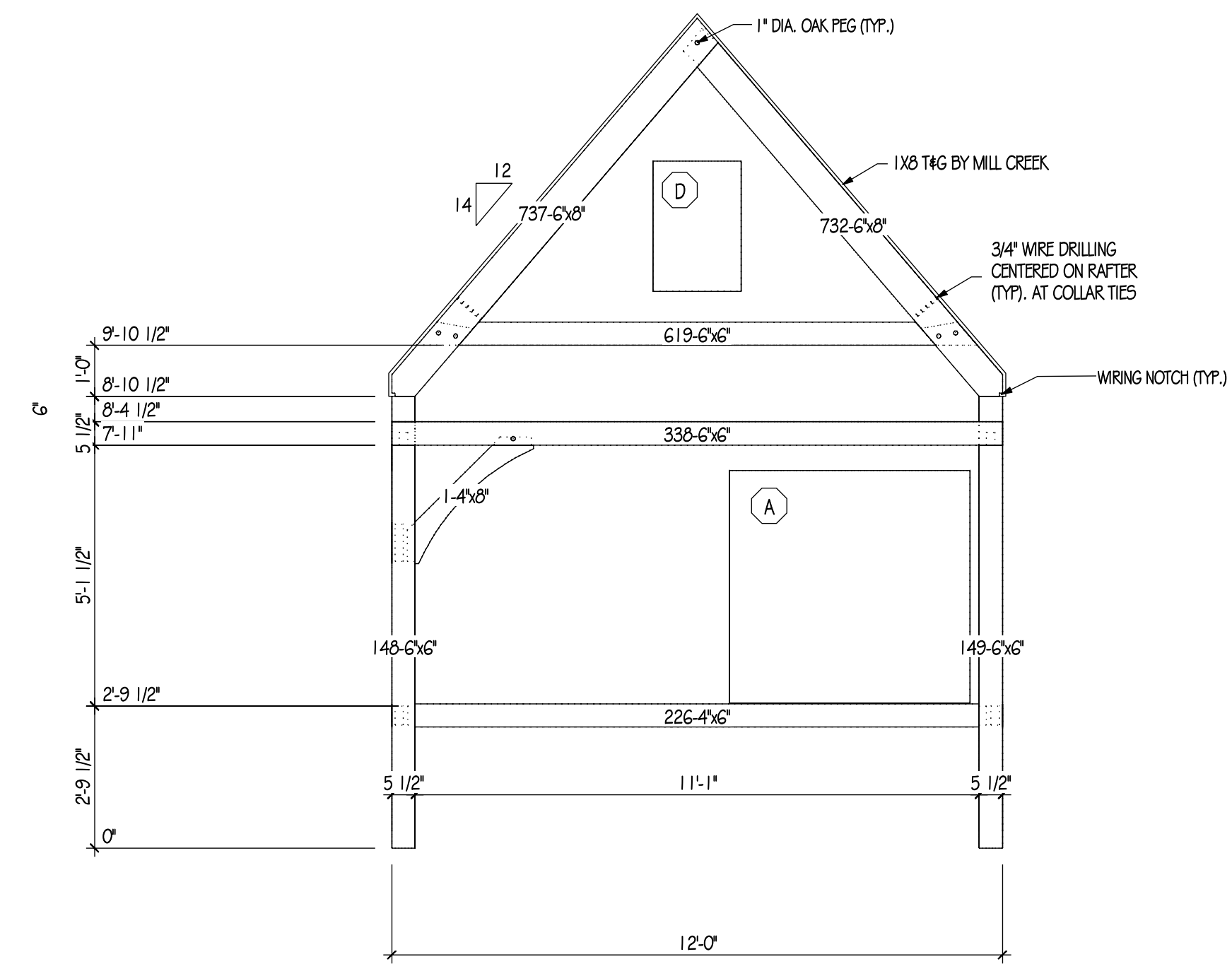
1 FRONT FRAME WALL
 F10 MASTER BATH FRAME SCALE: 3/8" = 1'-0"



3 REAR FRAME WALL
 F10 MASTER BATH FRAME SCALE: 3/8" = 1'-0"



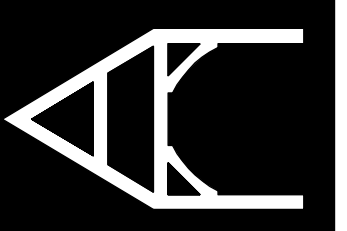
2 RIGHT FRAME WALL
 F10 MASTER BATH FRAME SCALE: 3/8" = 1'-0"



4 LEFT FRAME WALL
 F10 MASTER BATH FRAME SCALE: 3/8" = 1'-0"

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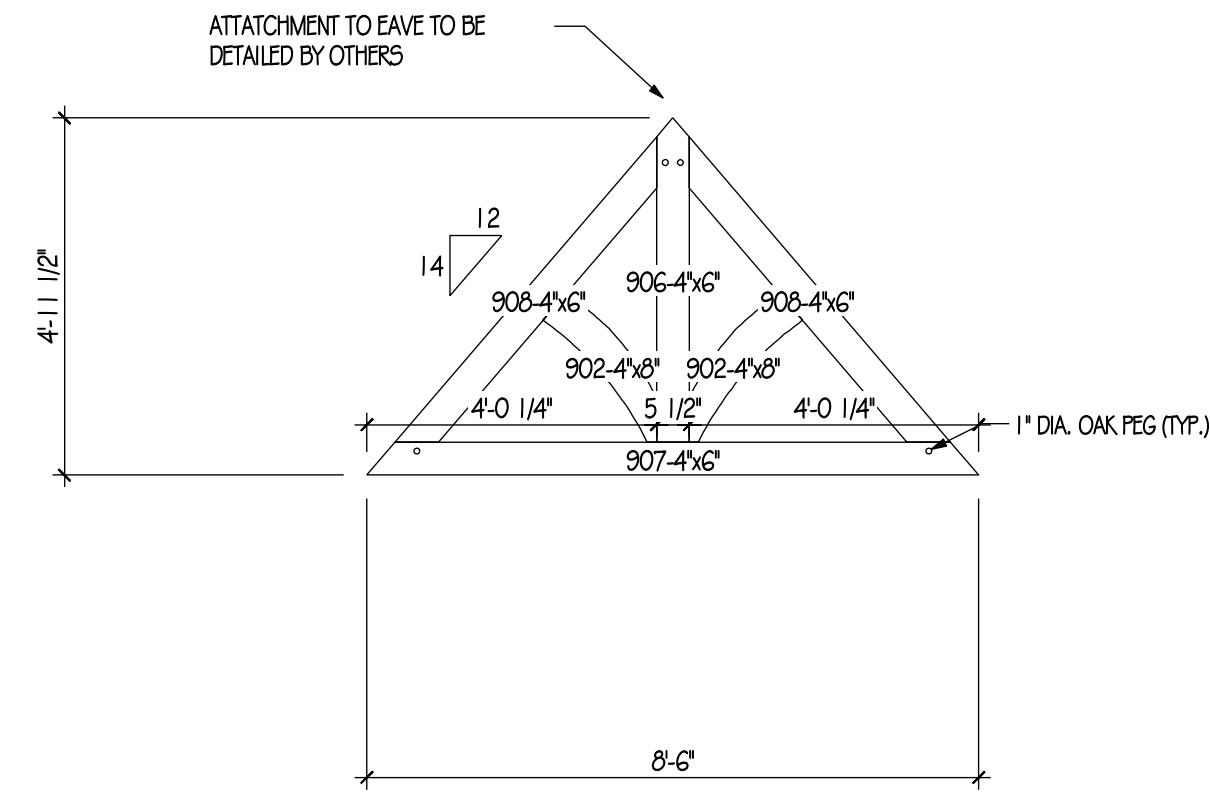
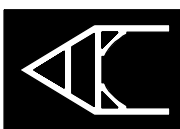
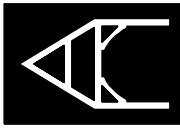
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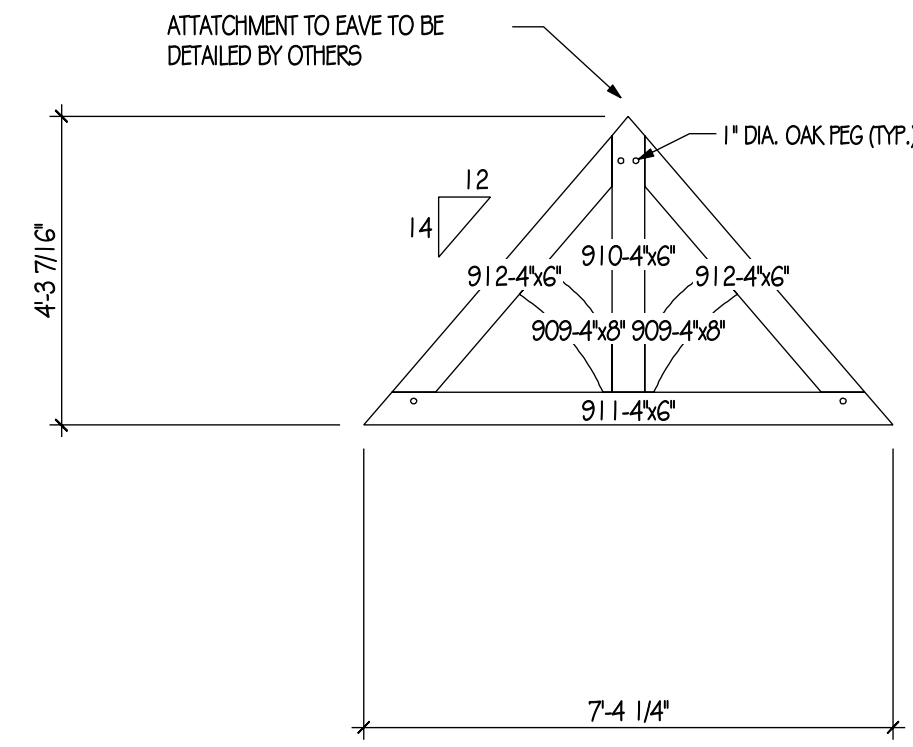
Timber Number Key

- 100 - Posts
- 200 - Girts
- 300 - Plates, Girders, Purlins
- 400 - Joists
- 500 - Purlin Ties, Wall Ties
- 600 - Collar Ties
- 700 - Rafters
- 800 - Miscellaneous
- 900 - All Fir Exterior Timbers

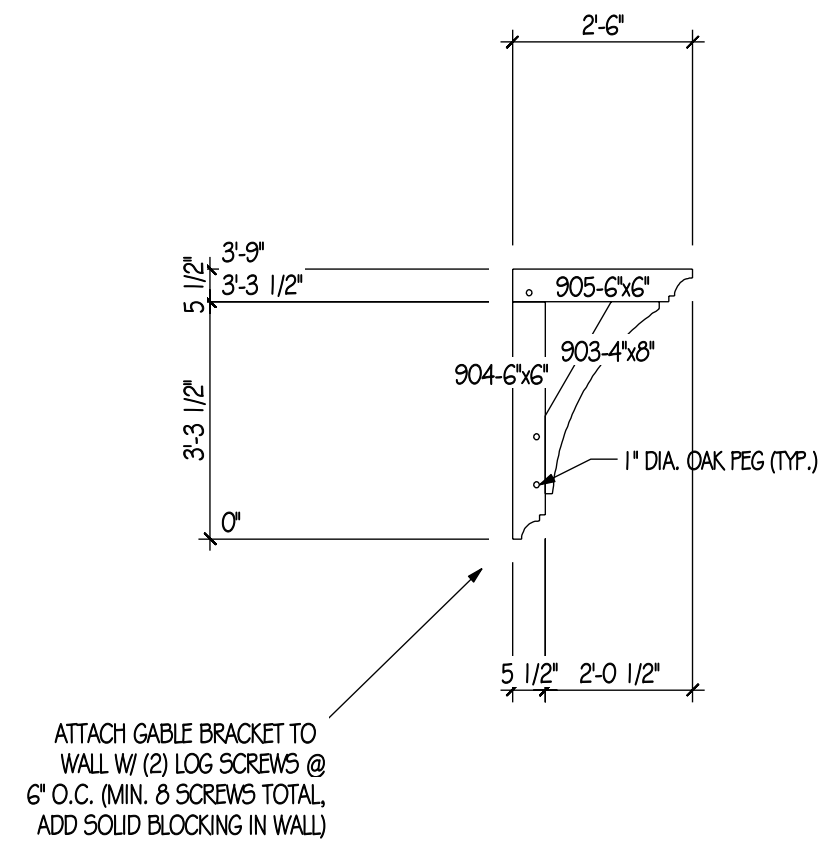
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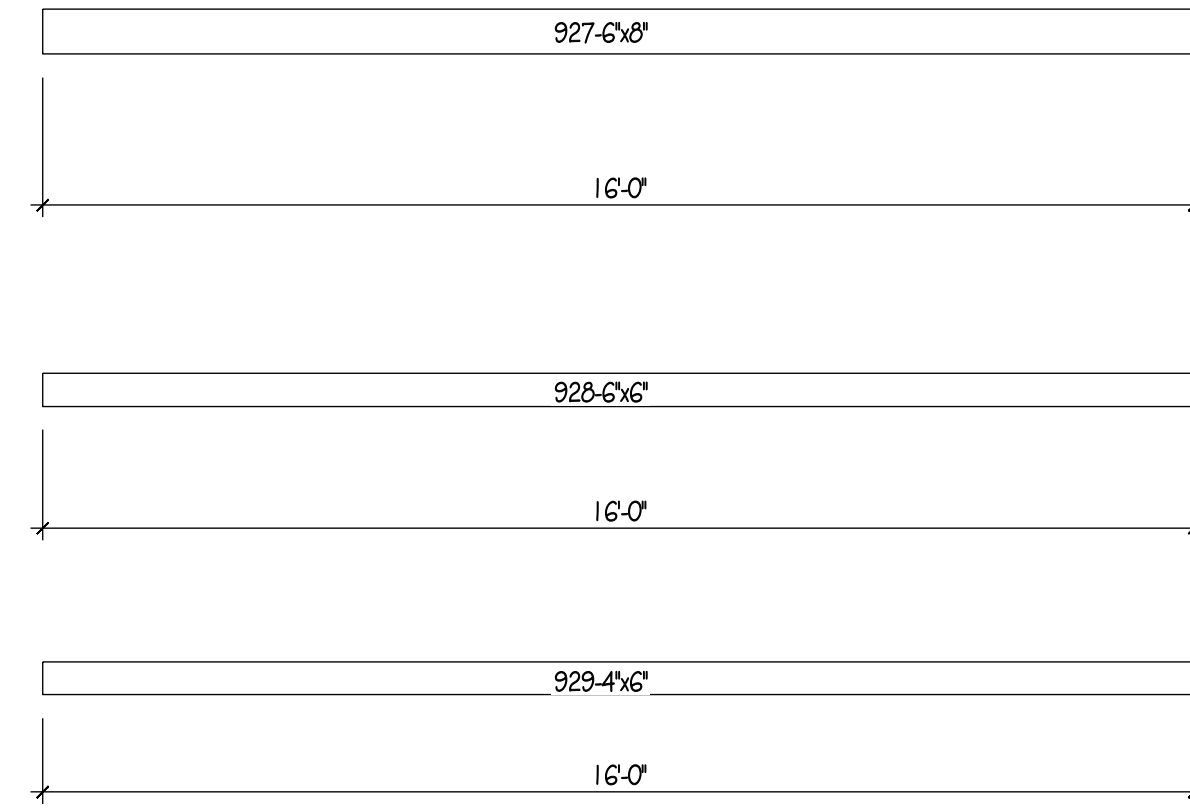
1 GABLE ELEMENT A (QTY.-4)
 F13 GABLE ELEMENT SCALE: 3/8" = 1'-0"



2 GABLE ELEMENT B (QTY.-4)
 F13 GABLE ELEMENT SCALE: 3/8" = 1'-0"



3 GARAGE BRACKETS (QTY.-3)
 F13 GARAGE BRACKETS SCALE: 3/8" = 1'-0"



4 EXTRA BEAMS (PLANE ONLY)
 F13 EXTRA BEAMS SCALE: 3/8" = 1'-0"

ADDITIONAL BEAMS PROVIDED.
 HOME OWNER TO DETERMINE USAGE.

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Timber Number Key

- 100 - Posts
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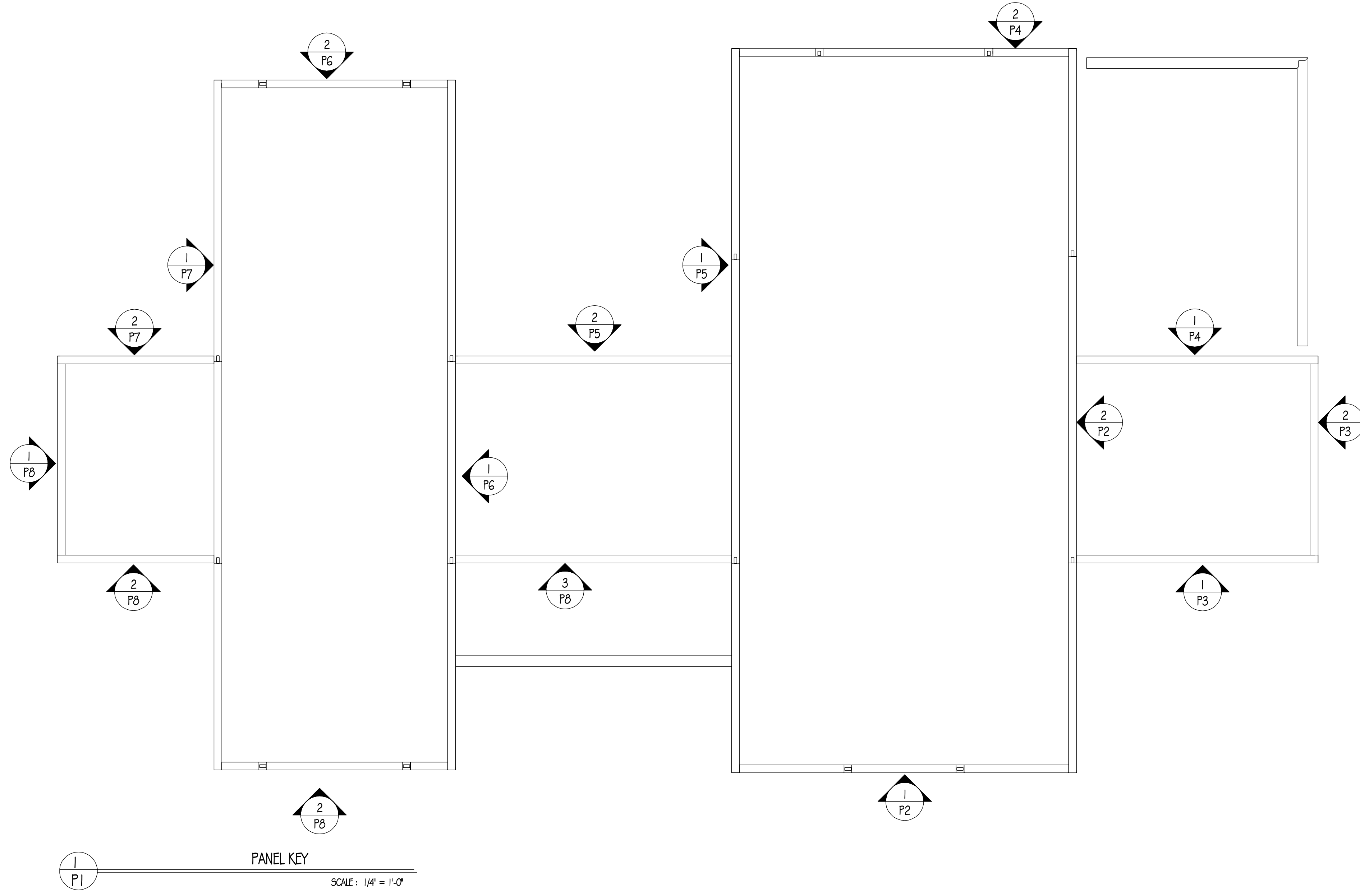
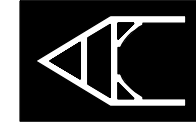
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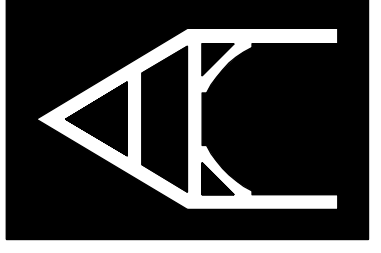
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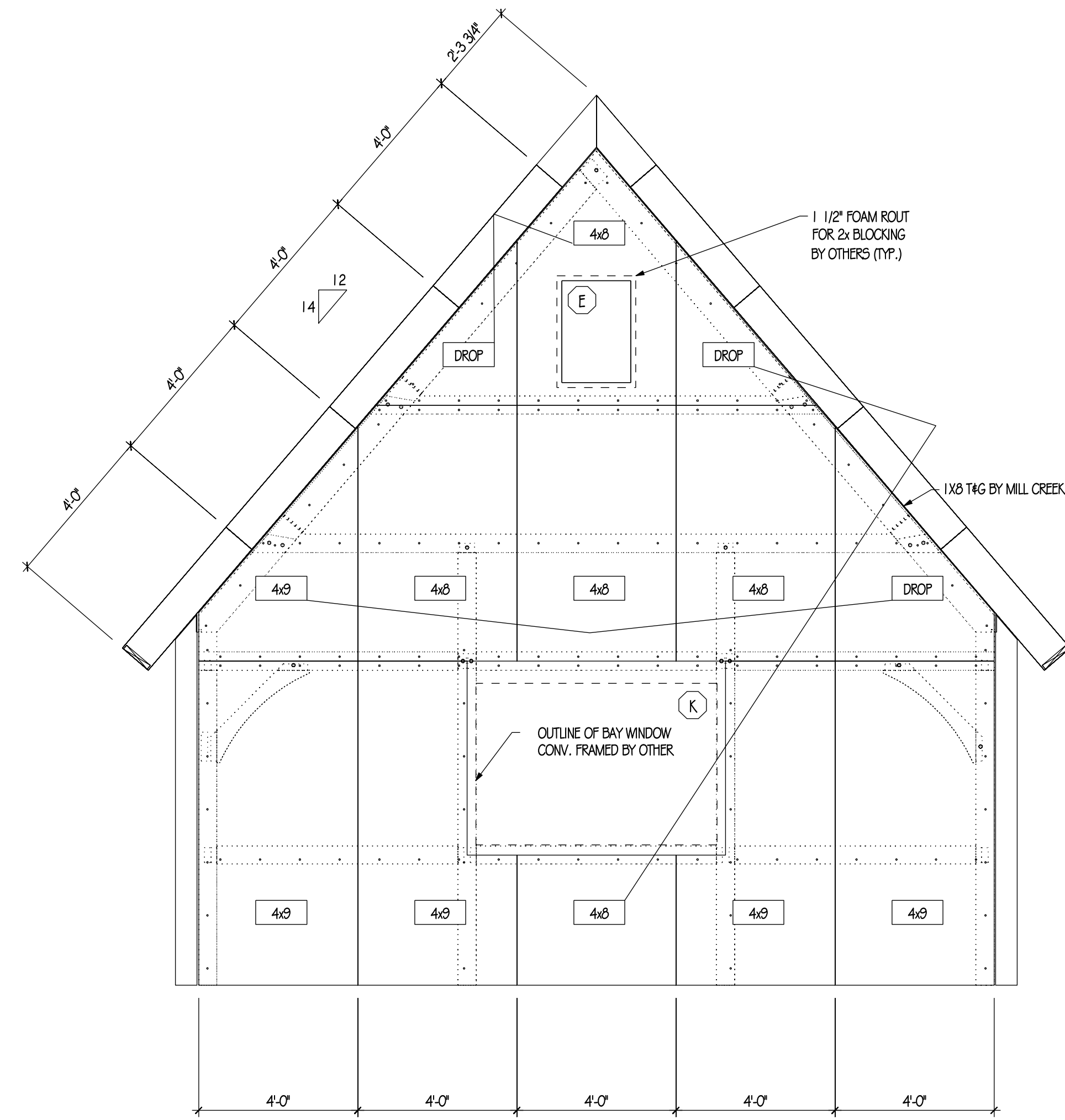
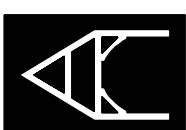
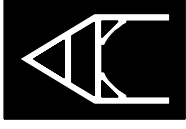
DRAWING PANELS

REVISIONS

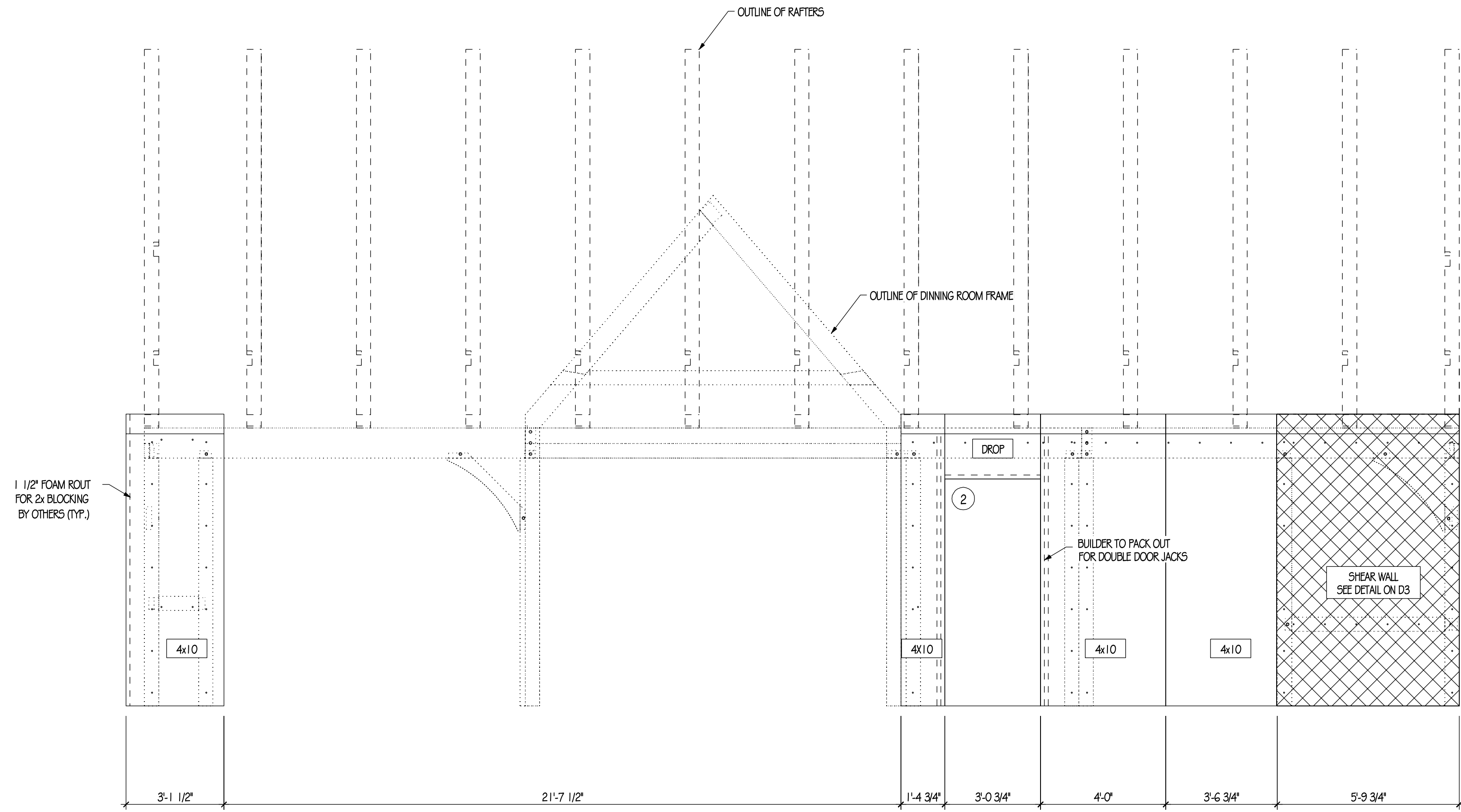
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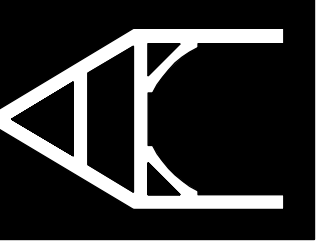
1 FRONT FRAME WALL
 P2 GREAT ROOM FRAME
 SCALE: 3/8" = 1'-0"



2 RIGHT FRAME WALL
 P2 GREAT ROOM FRAME
 SCALE: 3/8" = 1'-0"

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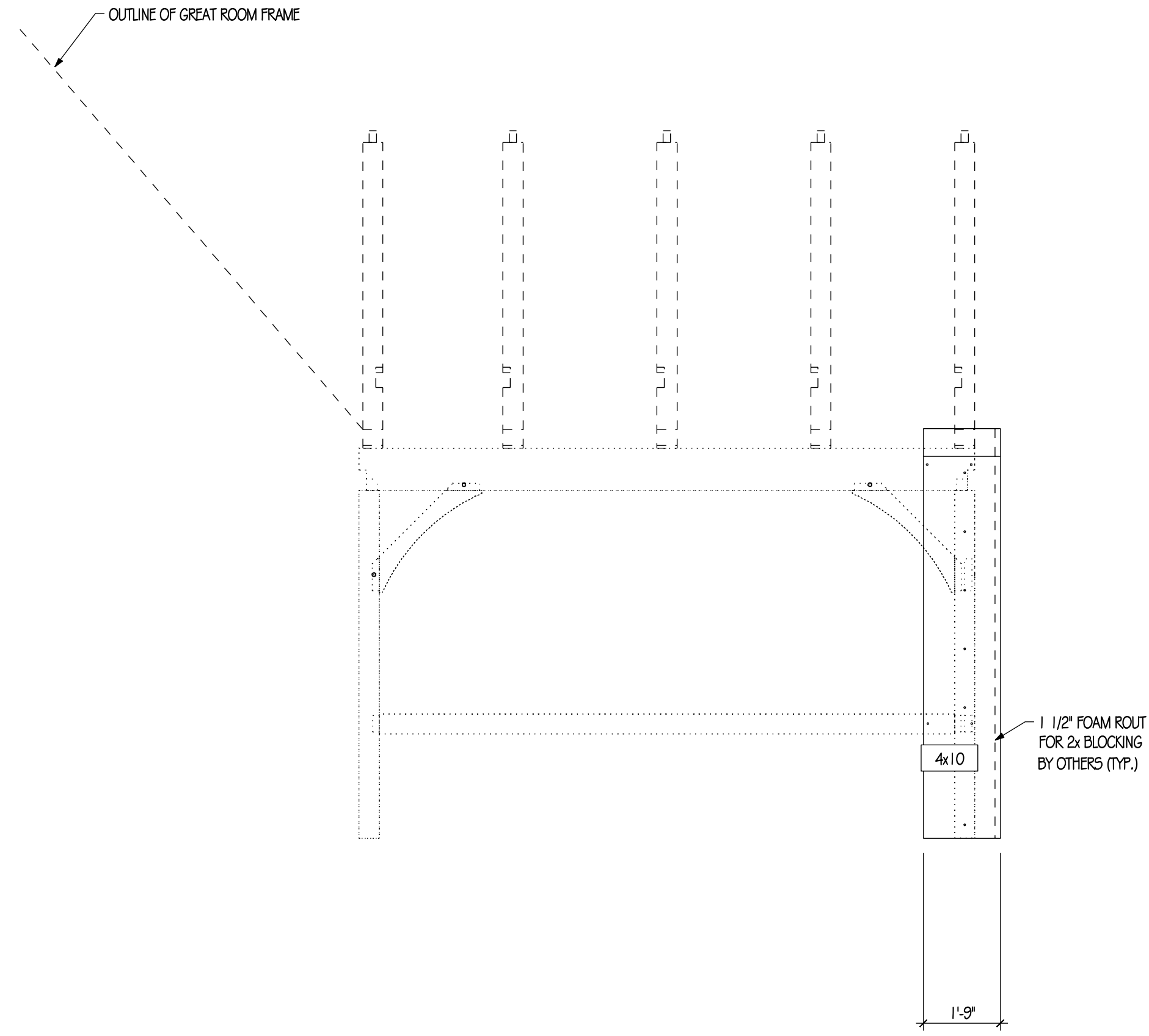
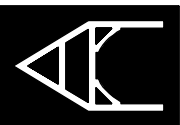
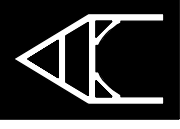
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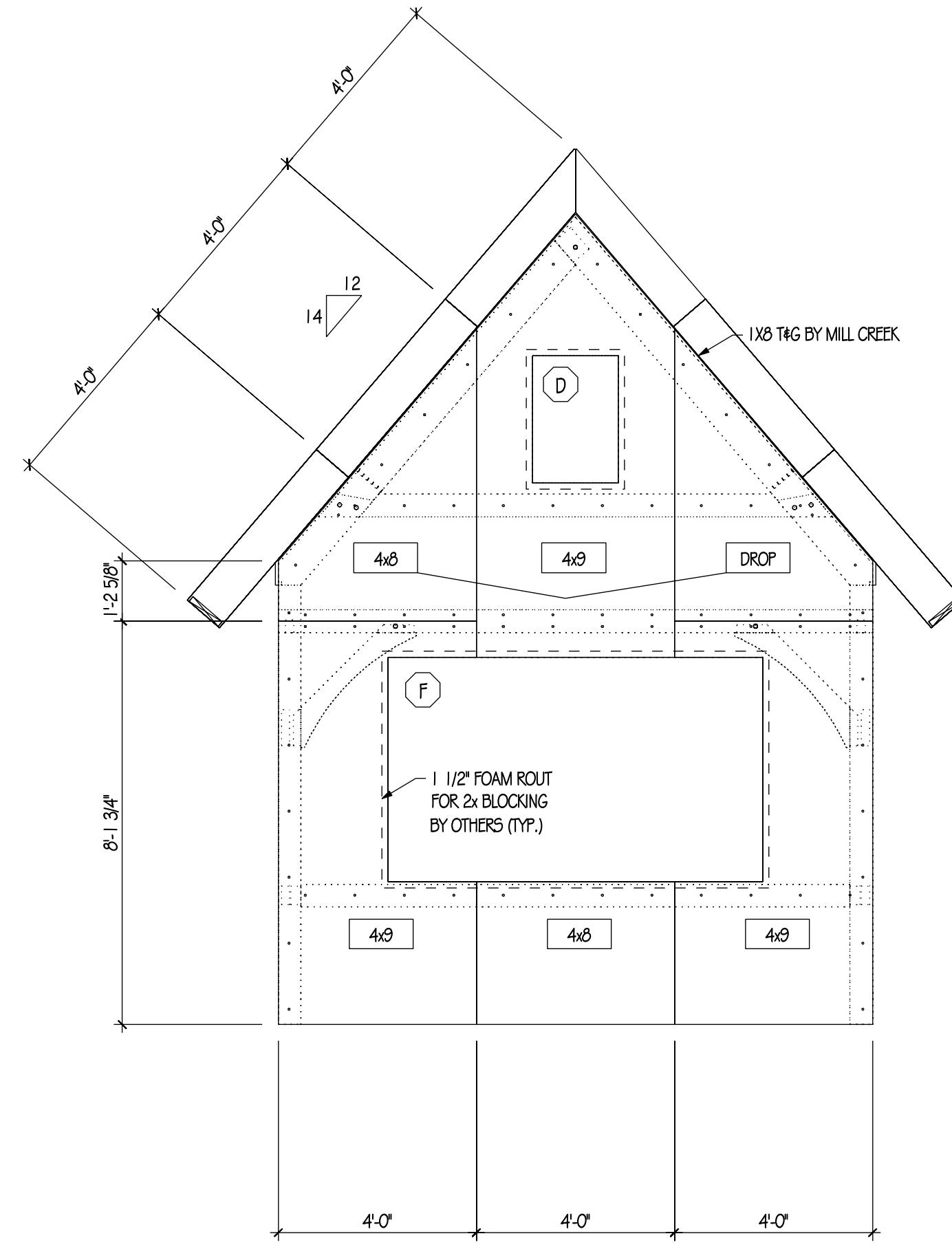
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 P2



1 FRONT FRAME WALL
P3 DINNING ROOM FRAME SCALE: 3/8" = 1'-0"

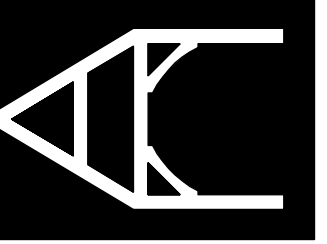


2 RIGHT FRAME WALL
P3 DINNING ROOM FRAME SCALE: 3/8" = 1'-0"

GENERAL NOTES

- 1) Review panel detail sheets and installation guide before beginning panel application.
- 2) All window/door openings are to be cut to manufacturers rough openings.
- 3) Panels are to be routed for 2x blocking at site by others.
- 4) Expanding foam and 2x blocking are to be provided by others.

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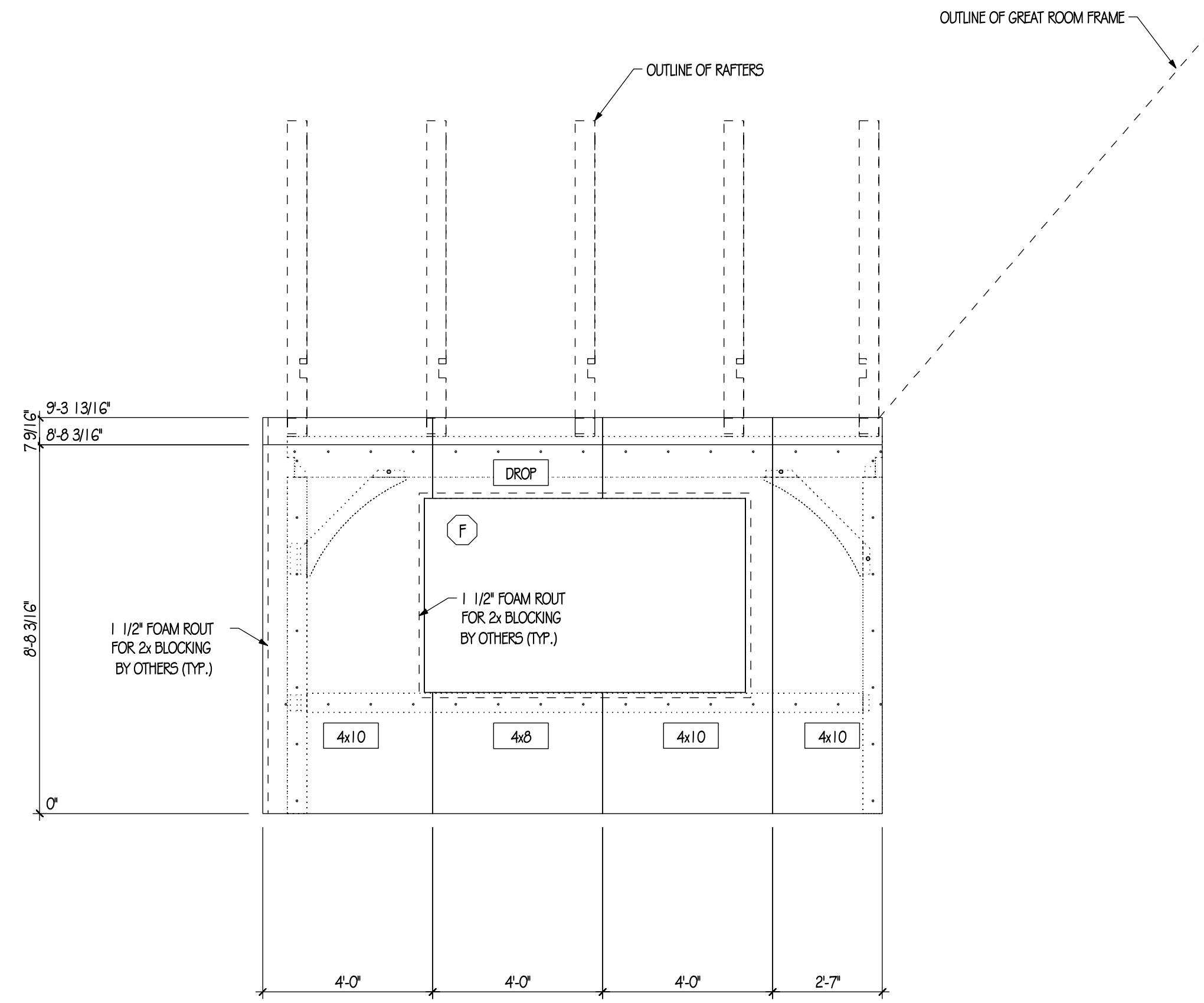
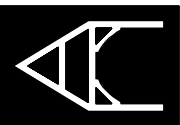
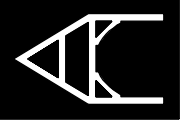
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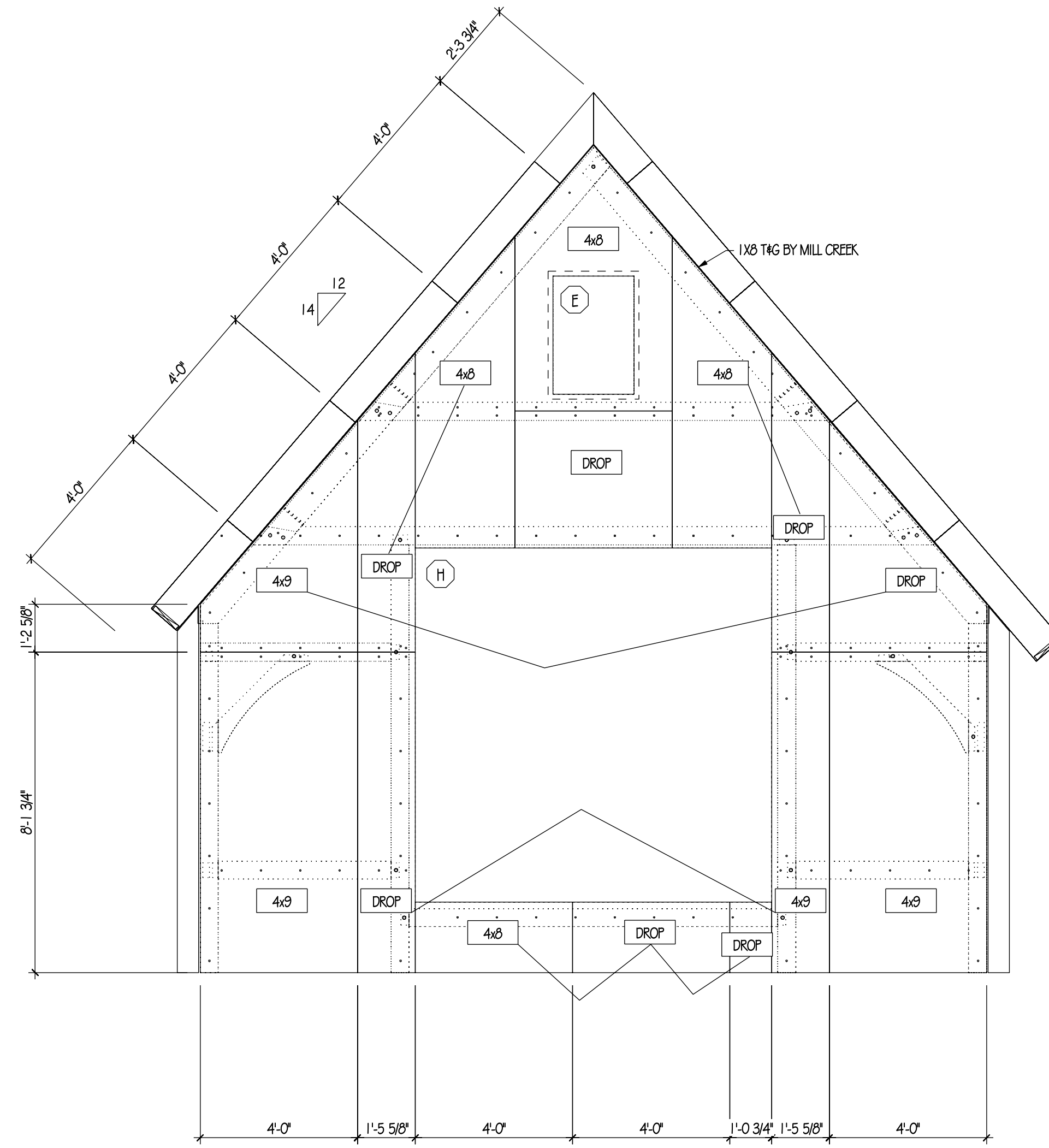
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P3

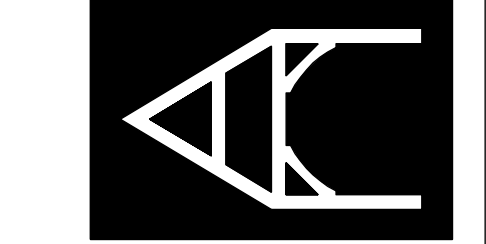


1 REAR FRAME WALL
P4 DINING ROOM FRAME SCALE: 3/8" = 1'-0"



2 REAR FRAME WALL
P4 GREAT ROOM FRAME SCALE: 3/8" = 1'-0"

- GENERAL NOTES
- 1) Review panel detail sheets and installation guide before beginning panel application.
 - 2) All window/door openings are to be cut to manufacturers rough openings.
 - 3) Panels are to be routed for 2x blocking at site by others.
 - 4) Expanding foam and 2x blocking are to be provided by others.



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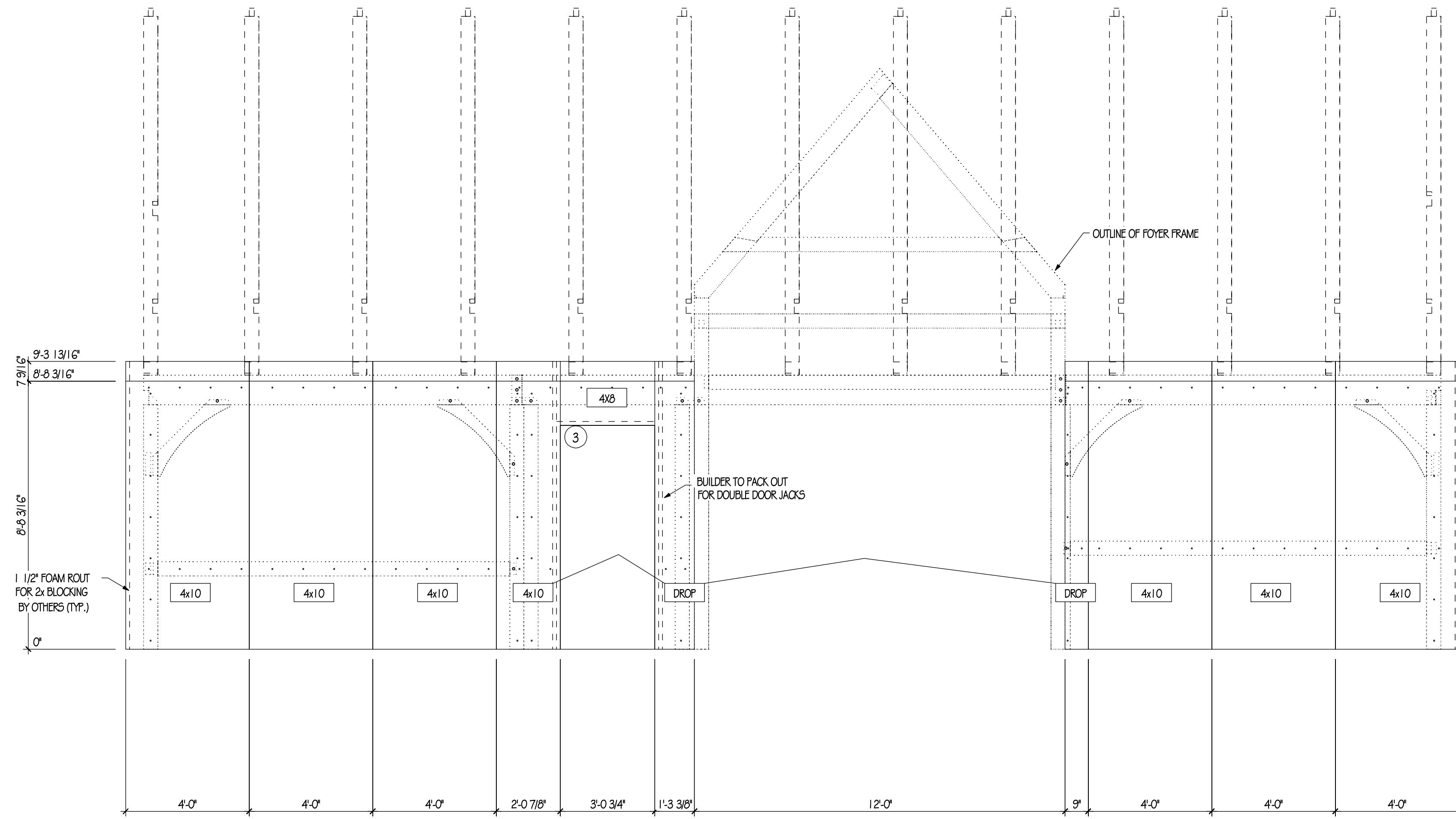
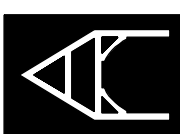
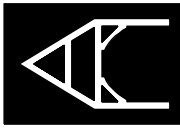
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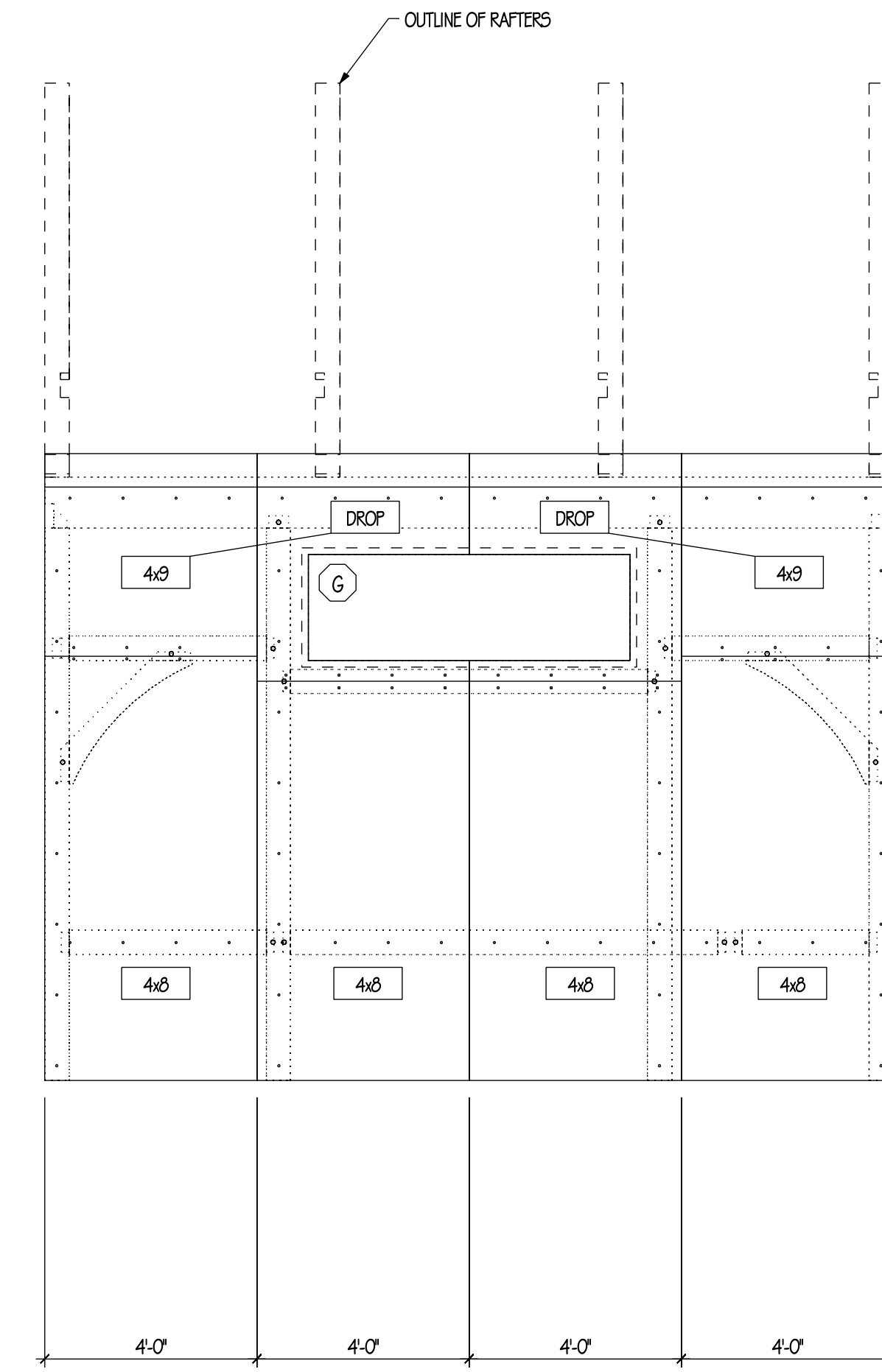
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1 LEFT FRAME WALL
 P5 GREAT ROOM FRAME
 SCALE: 3/8" = 1'-0"

GENERAL NOTES

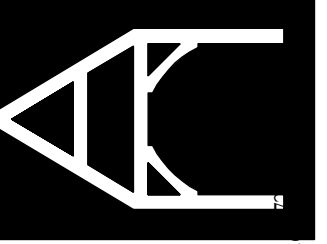
- 1) Review panel detail sheets and installation guide before beginning panel application.
- 2) All window/door openings are to be cut to manufacturers rough openings.
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- 4) Expanding foam and 2x blocking are to be provided by others.



2 REAR FRAME WALL
 P5 FOYER FRAME
 SCALE: 3/8" = 1'-0"

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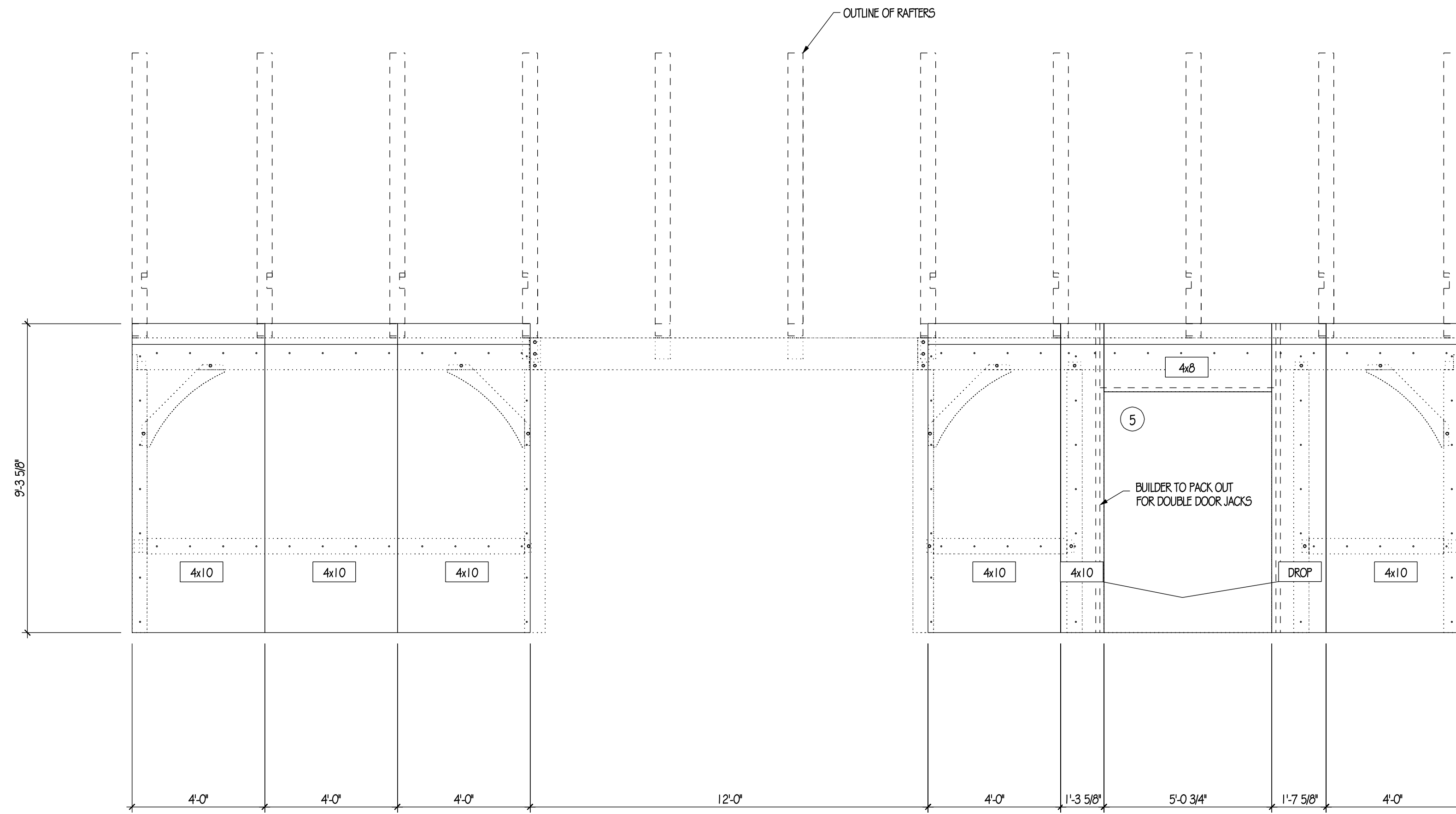
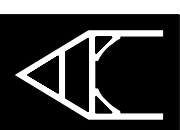
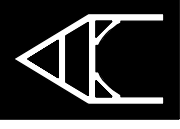
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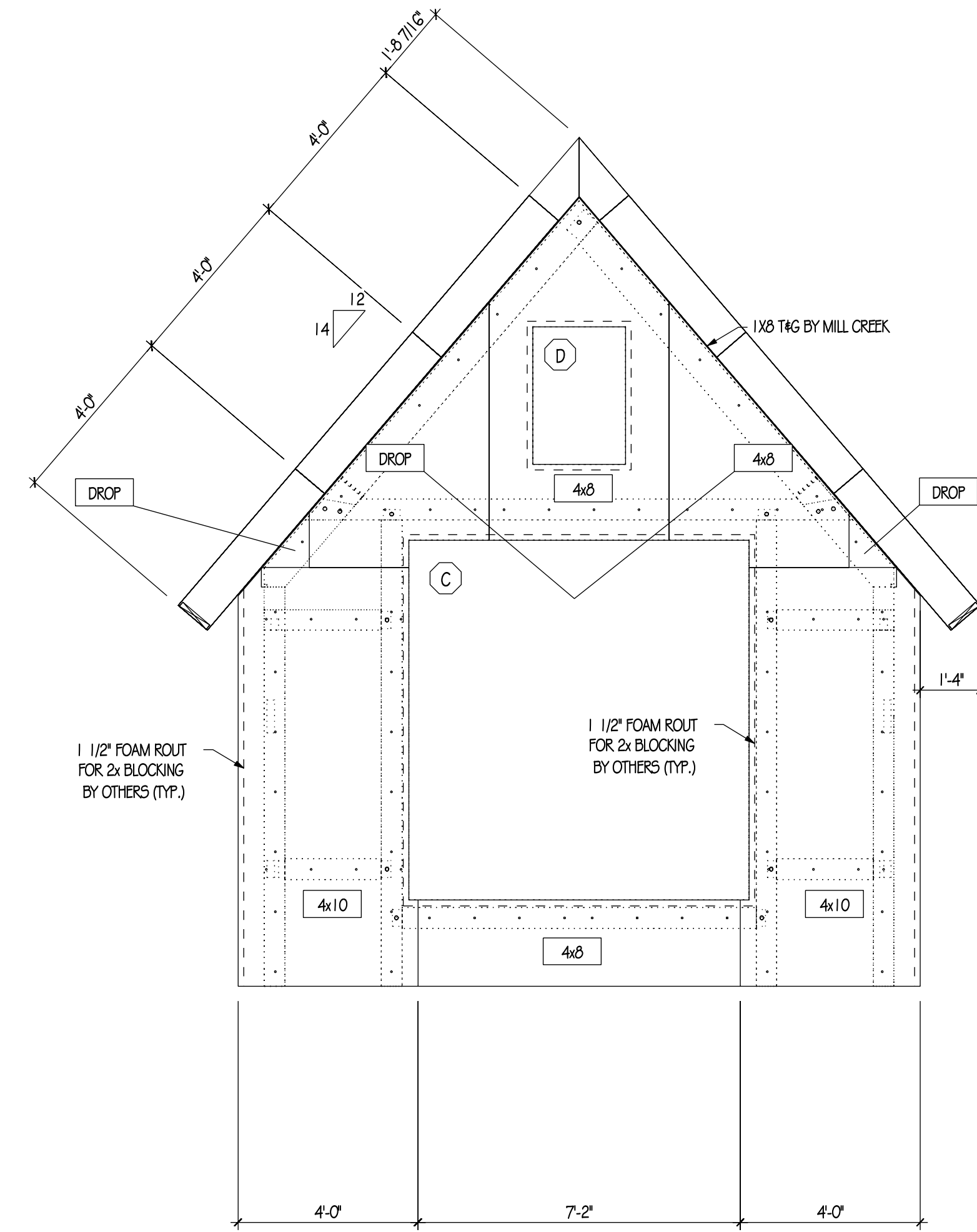
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P5



1 RIGHT FRAME WALL
P6 MASTER BEDROOM FRAME SCALE: 3/8" = 1'-0"

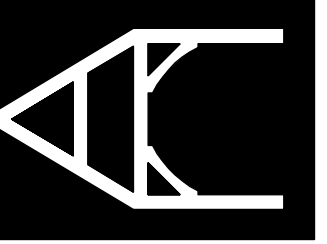


2 REAR FRAME WALL
P6 MASTER BEDROOM FRAME SCALE: 3/8" = 1'-0"

GENERAL NOTES

- 1) Review panel detail sheets and installation guide before beginning panel application.
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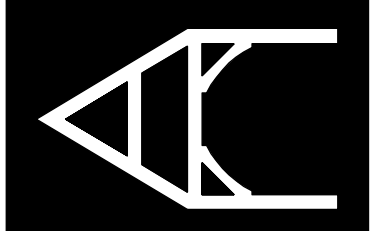
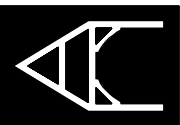
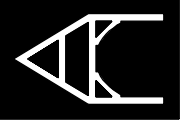
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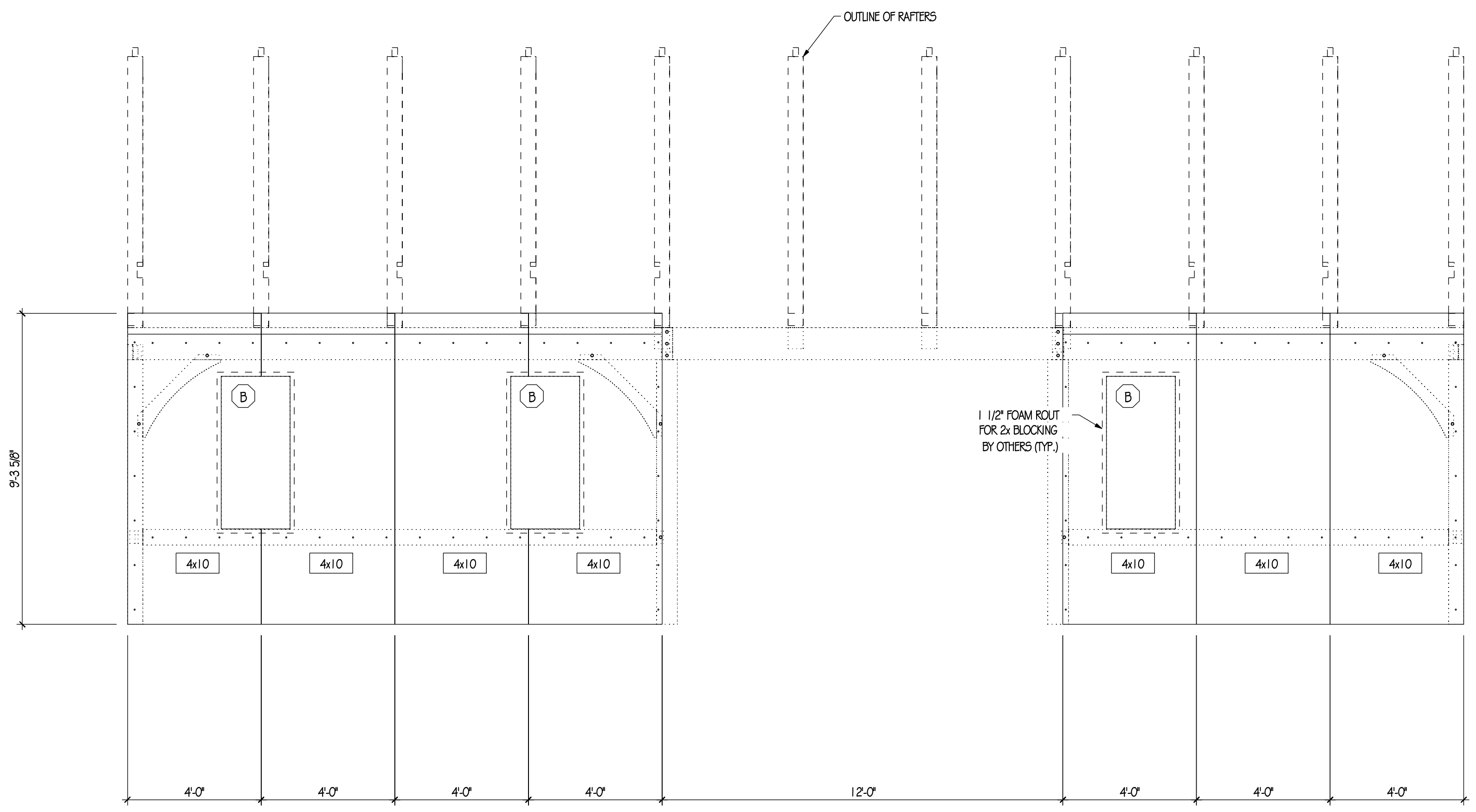
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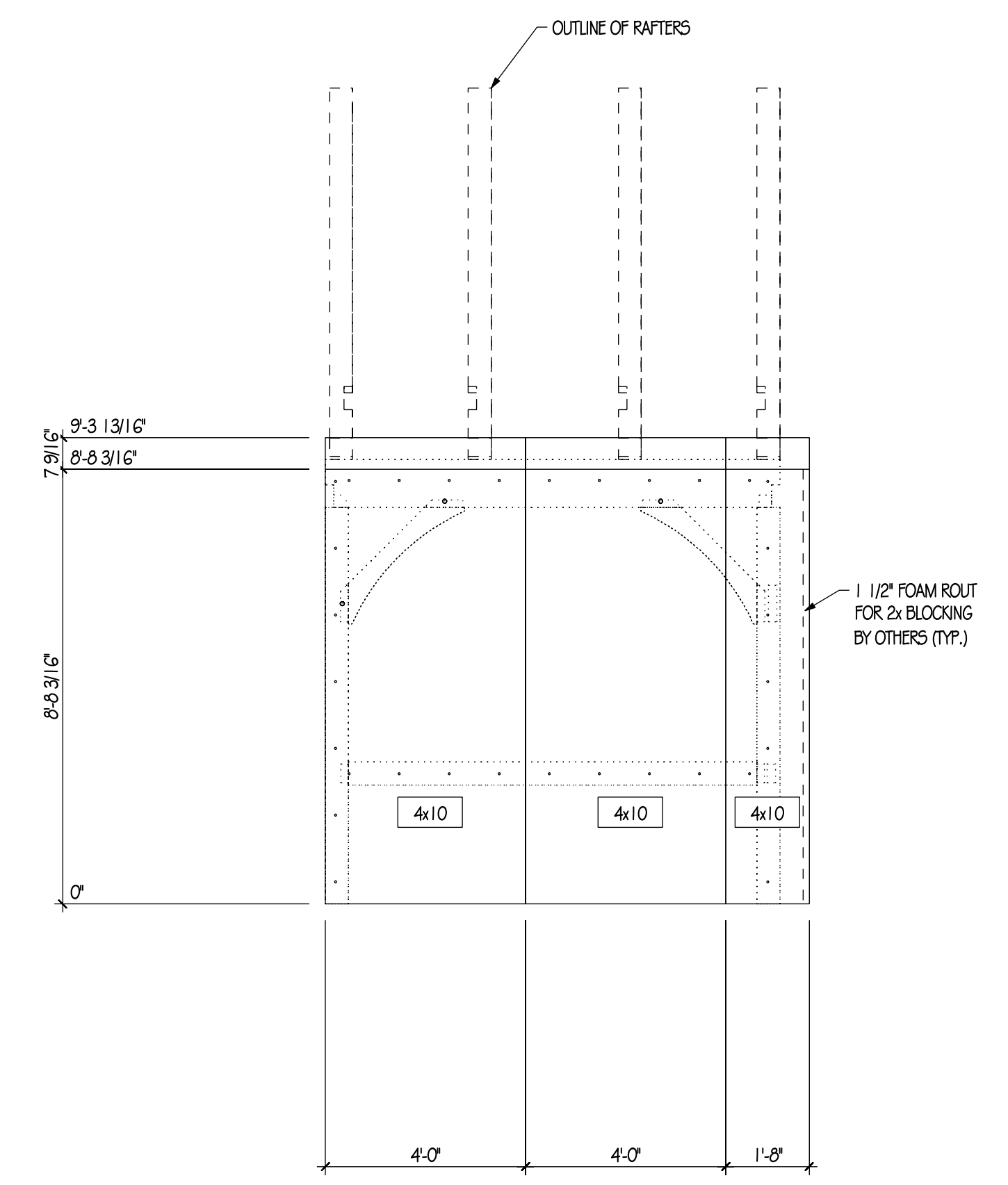
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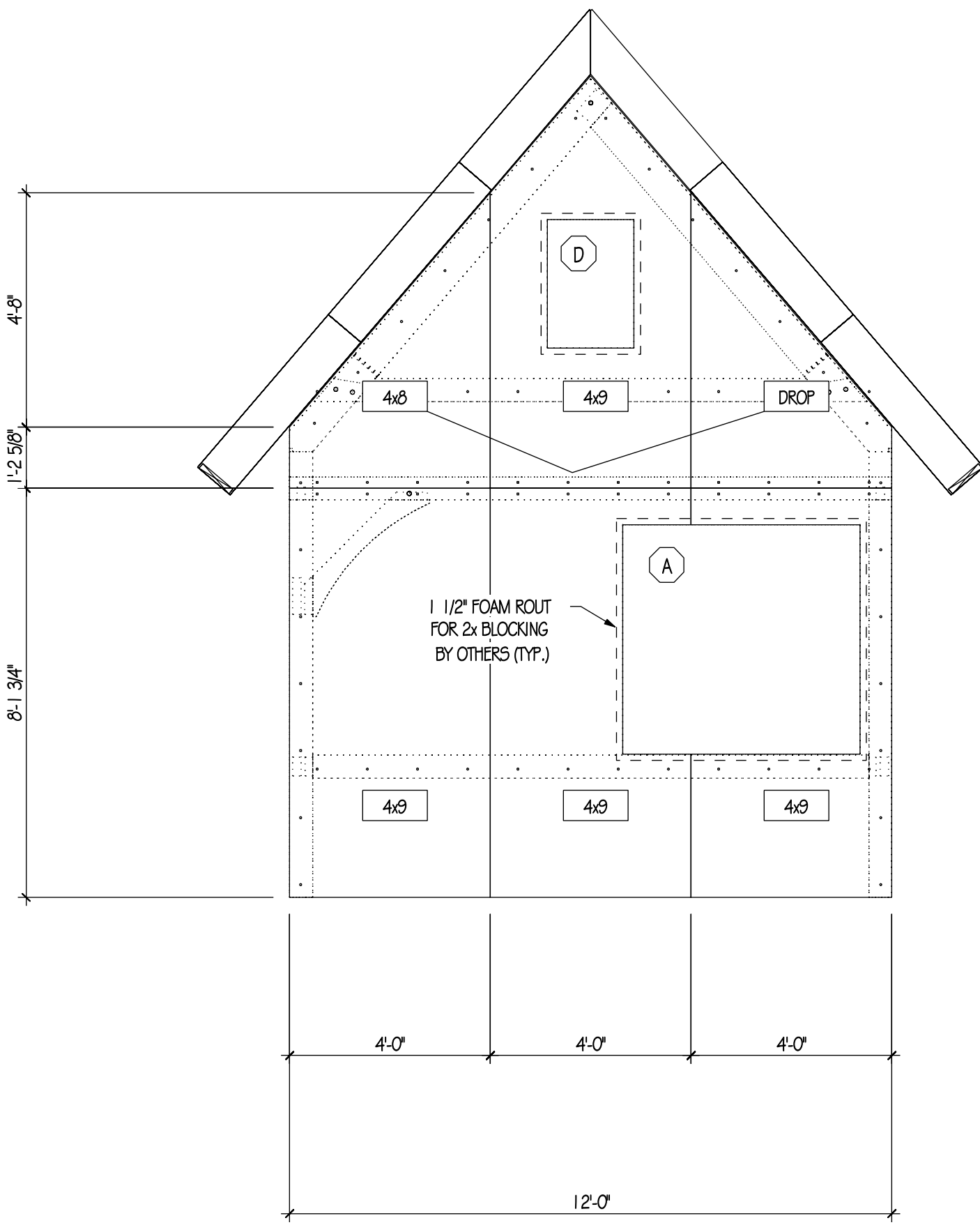
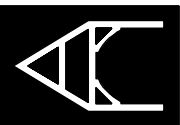
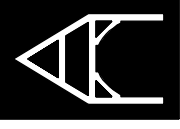


1 LEFT FRAME WALL
 P7 MASTER BEDROOM FRAME SCALE: 3/8" = 1'-0"

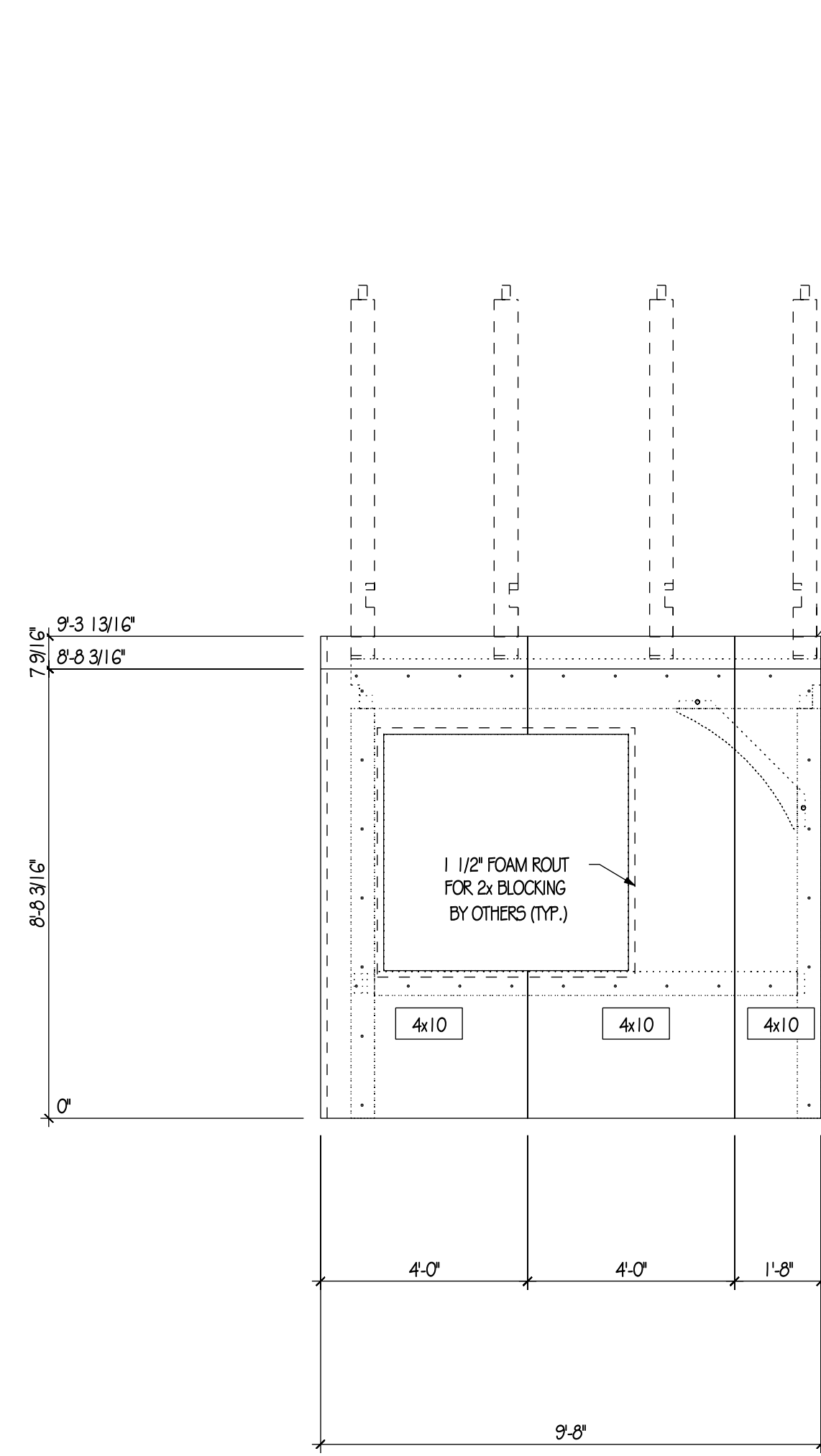


2 REAR FRAME WALL
 P7 MASTER BATH FRAME SCALE: 3/8" = 1'-0"

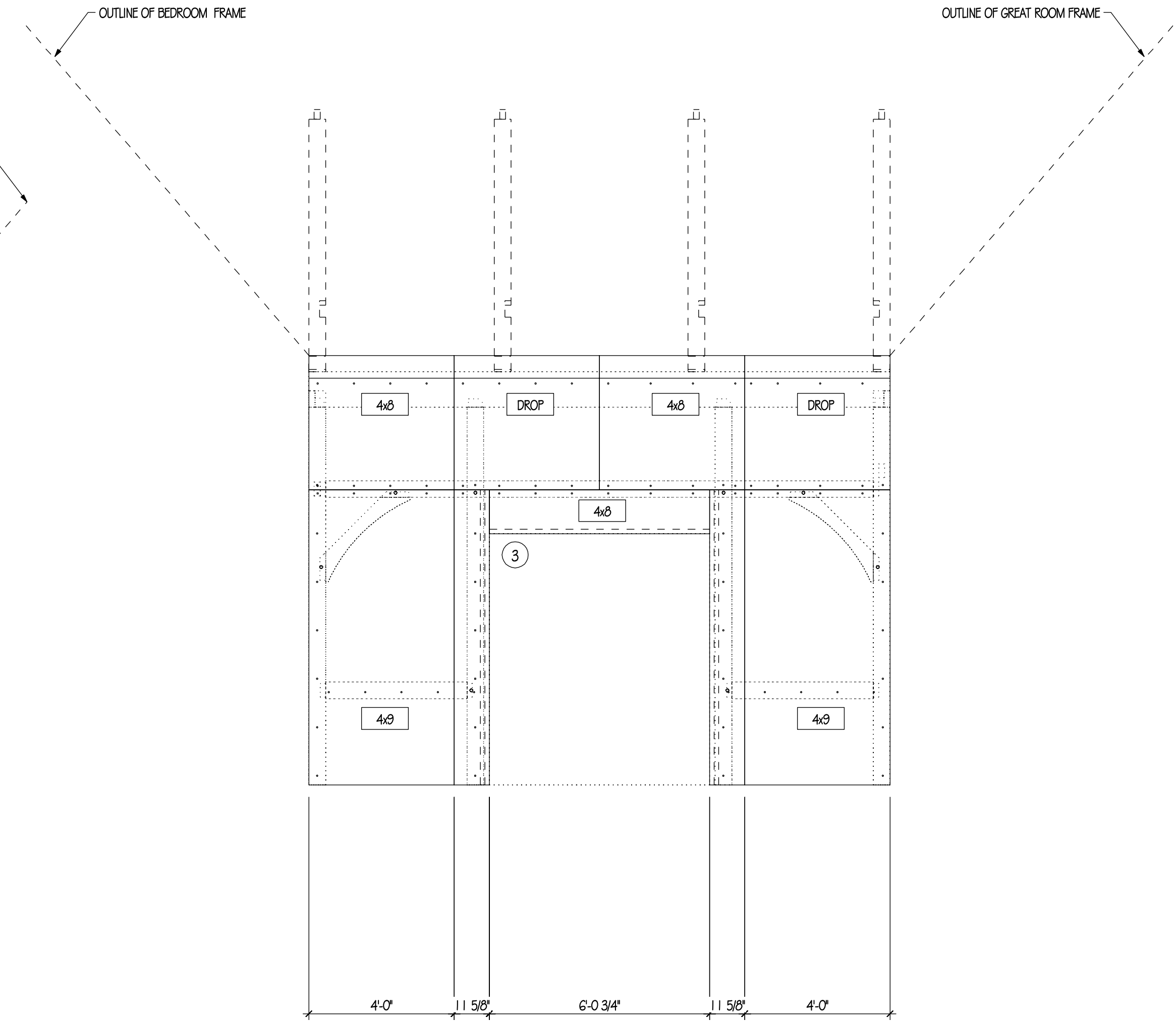
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1 LEFT FRAME WALL
P8 MASTER BATHROOM FRAME SCALE: 3/8" = 1'-0"



2 FRONT FRAME WALL
P8 MASTER BATHROOM FRAME SCALE: 3/8" = 1'-0"



3 FRONT FRAME WALL
P8 FOYER FRAME SCALE: 3/8" = 1'-0"

GENERAL NOTES

- 1) Review panel detail sheets and installation guide before beginning panel application.
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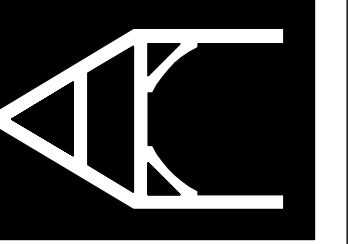
DRAWING PANELS

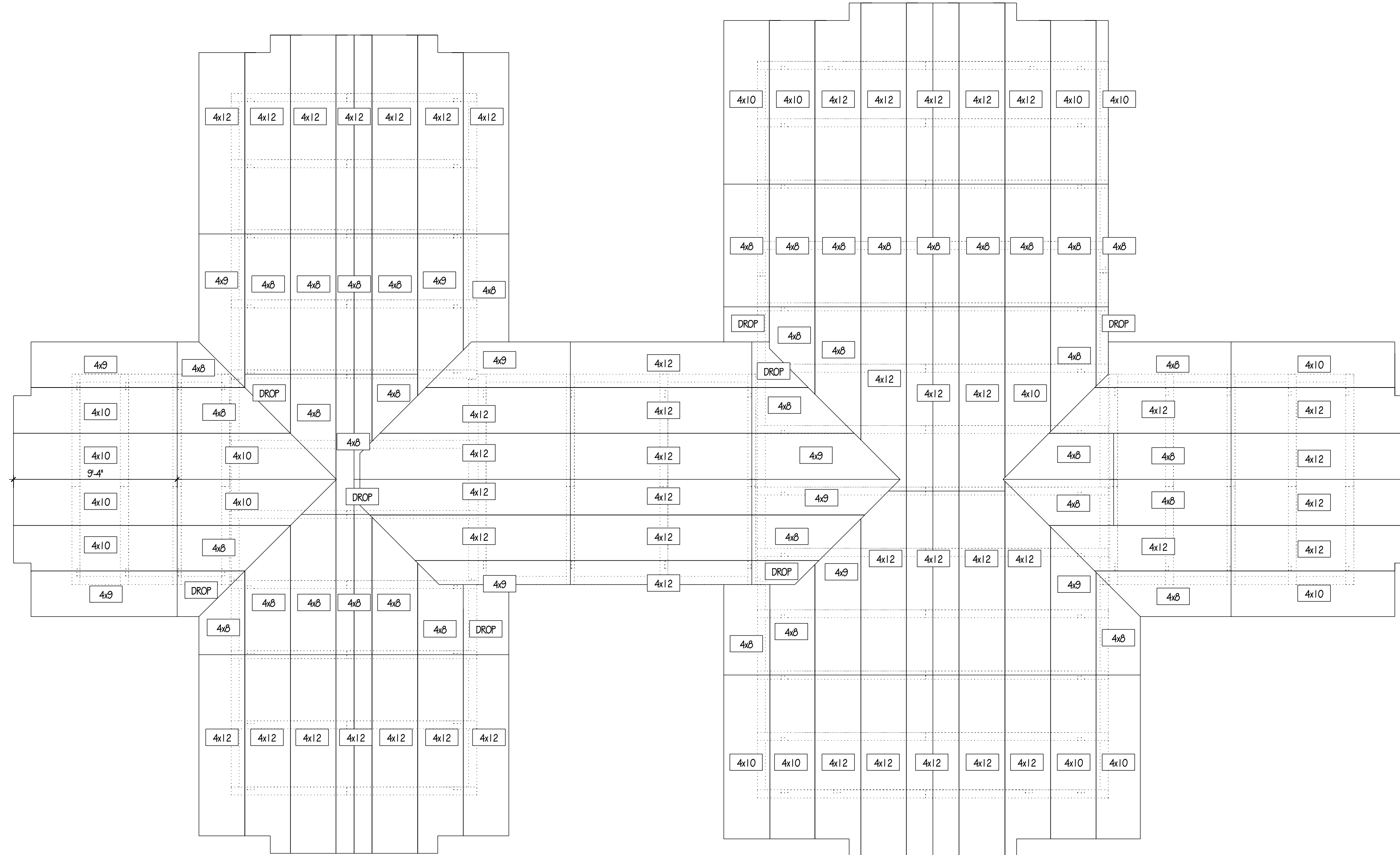
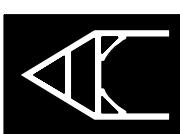
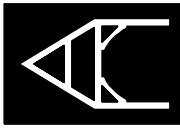
REVISIONS

Sheet Number

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P8
ROOF PANEL KEY
SCALE: 1/4" = 1'-0"

- GENERAL NOTES**
- 1) Review panel detail sheets and installation guide before beginning panel application.
 - 2) All window/door openings are to be cut to manufacturers rough openings.
 - 3) Panels are to be routed for 2x blocking at site by others.
 - 4) Expanding foam and 2x blocking are to be provided by others.

A RESIDENCE FOR: ERICK & DONNA SPANGLER

SITE LOCATION: SPEARFISH, SD 57783

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P9	

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