

" RESIDENCE

SITE ADDRESS

ARCHITECT:  
CLIENT:  
DRAWN BY:

DATE: 07-01-19  
SHEET TF 1 OF 32

ENGINEER:



TIMBER FRAME:

CAROLINA TIMBERWORKS  
1172 HIGHLAND HALL ROAD, BOONE NC 28607  
(828) 266-9663 | JEREN@CAROLINATIMBERWORKS.COM



SITE INFO:  
SITE ADDRESS

STRUCTURAL DESIGN REQUIREMENTS:

DESIGN STANDARDS:

- ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS
- 2012 INTERNATIONAL RESIDENTIAL CODE
- 2010 NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION

DESIGN CRITERIA:

ROOF DEAD LOAD - 20 PSF

ROOF LIVE LOAD - 20 PSF

GROUND SNOW LOAD - 10 PSF

WIND LOAD - 120 MPH ULTIMATE

- IMPORTANCE FACTOR, 1.00 (CATEGORY II BUILDING)

GENERAL NOTES:

THESE DRAWINGS ARE INTENDED TO REPRESENT THE TIMBER FRAME STRUCTURE ONLY. ANY STRUCTURE NOT EXPLICITLY SHOWN ON THESE PLANS HAS NOT BEEN ENGINEERED BY THE ENGINEER OR DESIGNED BY CAROLINA TIMBERWORKS, AND IS THE RESPONSIBILITY OF OTHERS. THE TIMBER FRAME IS DESIGNED TO RESIST GRAVITY AND UPLIFT LOADS.

DO NOT SCALE ANY DRAWINGS.

TIMBERS-

UNLESS OTHERWISE NOTED, EXTERIOR TIMBERS SHALL BE #2 & BETTER, STK, WESTERN RED CEDAR, R/S TO THE FULL STATED DIMENSIONS.

UNLESS OTHERWISE NOTED, INTERIOR TIMBERS SHALL BE #1 & BETTER, FOHC, DOUGLAS FIR, S4S TO 1/2" UNDER THE STATED DIMENSIONS, W/ STOP CHAMFER.

TIMBER SCREWS-

UNLESS NOTED OTHERWISE, ALL SCREWS SHALL BE BY GRK RSS OR WURTH ASSY, WITH A SHANK DIAMETER OF AT LEAST 0.2", AND A THREAD DIAMETER OF AT LEAST 0.30". EQUAL SUBSTITUTIONS MAY BE MADE ONLY WITH DIRECT WRITTEN PERMISSION FROM THE ENGINEER.

SCREWS HOLES SHALL NOT BE PRE-DRILLED UNLESS OTHERWISE NOTED, AND HAVE AT LEAST 3" OF THREAD PENETRATION INTO THE CONNECTING MEMBER

TIMBER FRAME JOINERY-

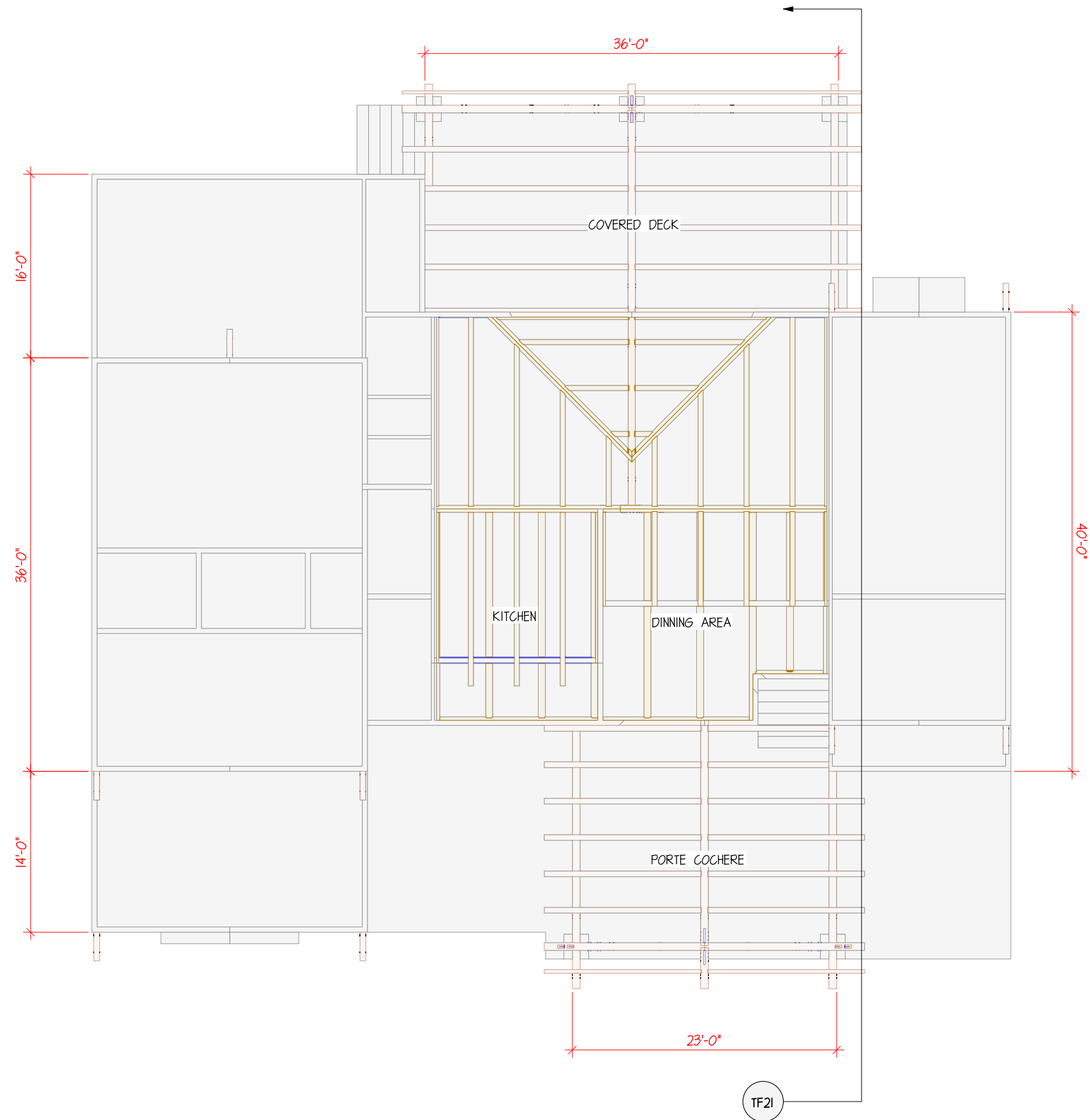
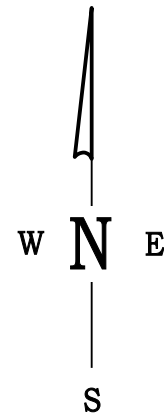
UNLESS OTHERWISE CALLED OUT, THE JOINERY SHOULD MEET THE FOLLOWING REQUIREMENTS, AND BE DETAILED IN ACCORDANCE WITH TFEC 1-10.

ALL PEGS SHALL BE 1" IN DIAMETER, AND MEET THE REQUIREMENTS OF TFEC 1-10.

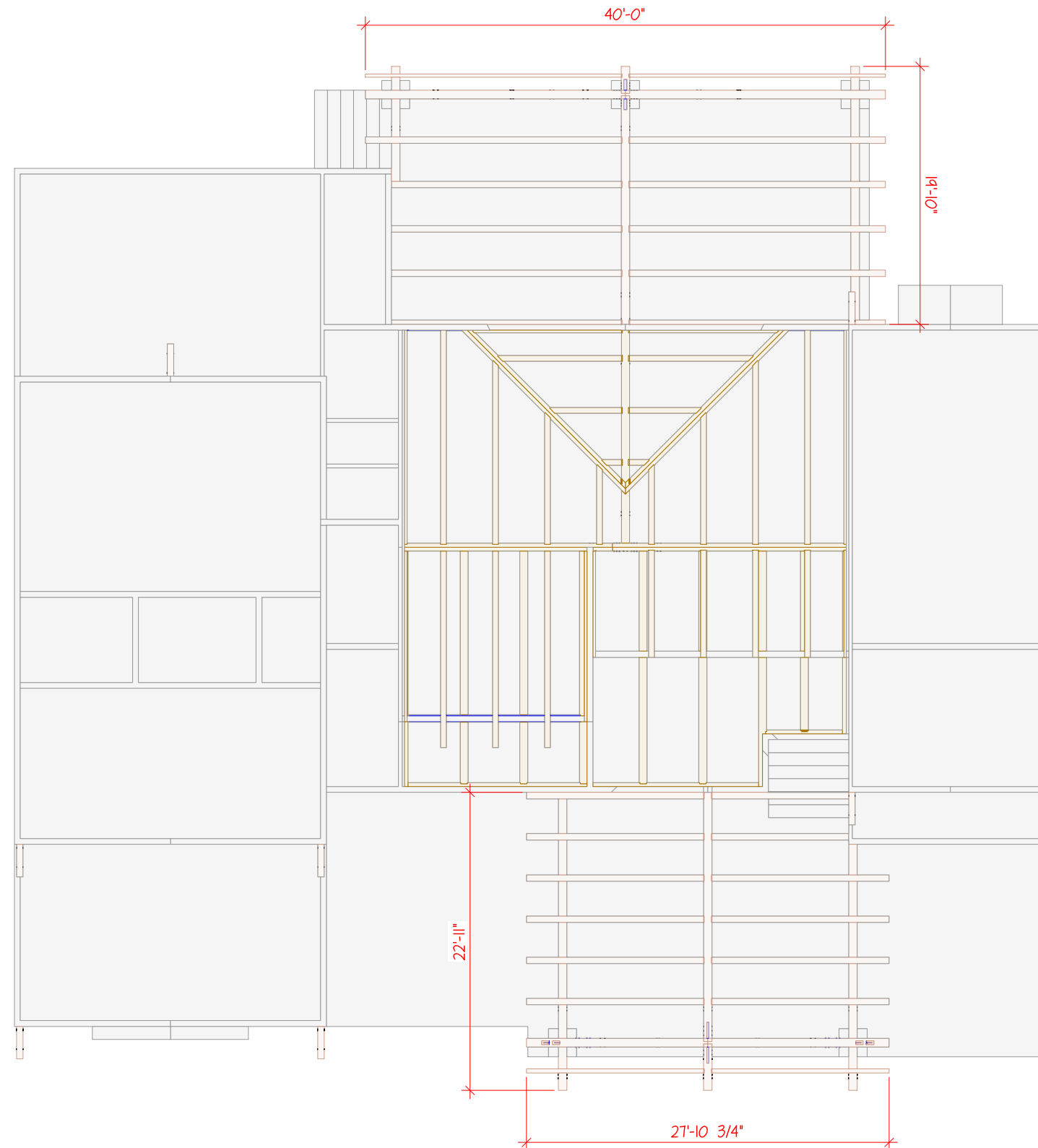
TENONS CONNECTING MEMBERS IN 8X MATERIAL AND LARGER (SMALLEST DIRECTION), SHALL BE 2" THICK AND 4 1/2" IN LENGTH, WITH 2" OF RELISH. IN 6X MATERIAL, 2" THICK, 4" LONG TENONS WITH 2" RELISH SHALL BE USED. 4X AND SMALLER MATERIAL, INCLUDING BRACES (UNLESS OTHERWISE CALLED OUT) AND STRUTS, SHALL HAVE A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

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

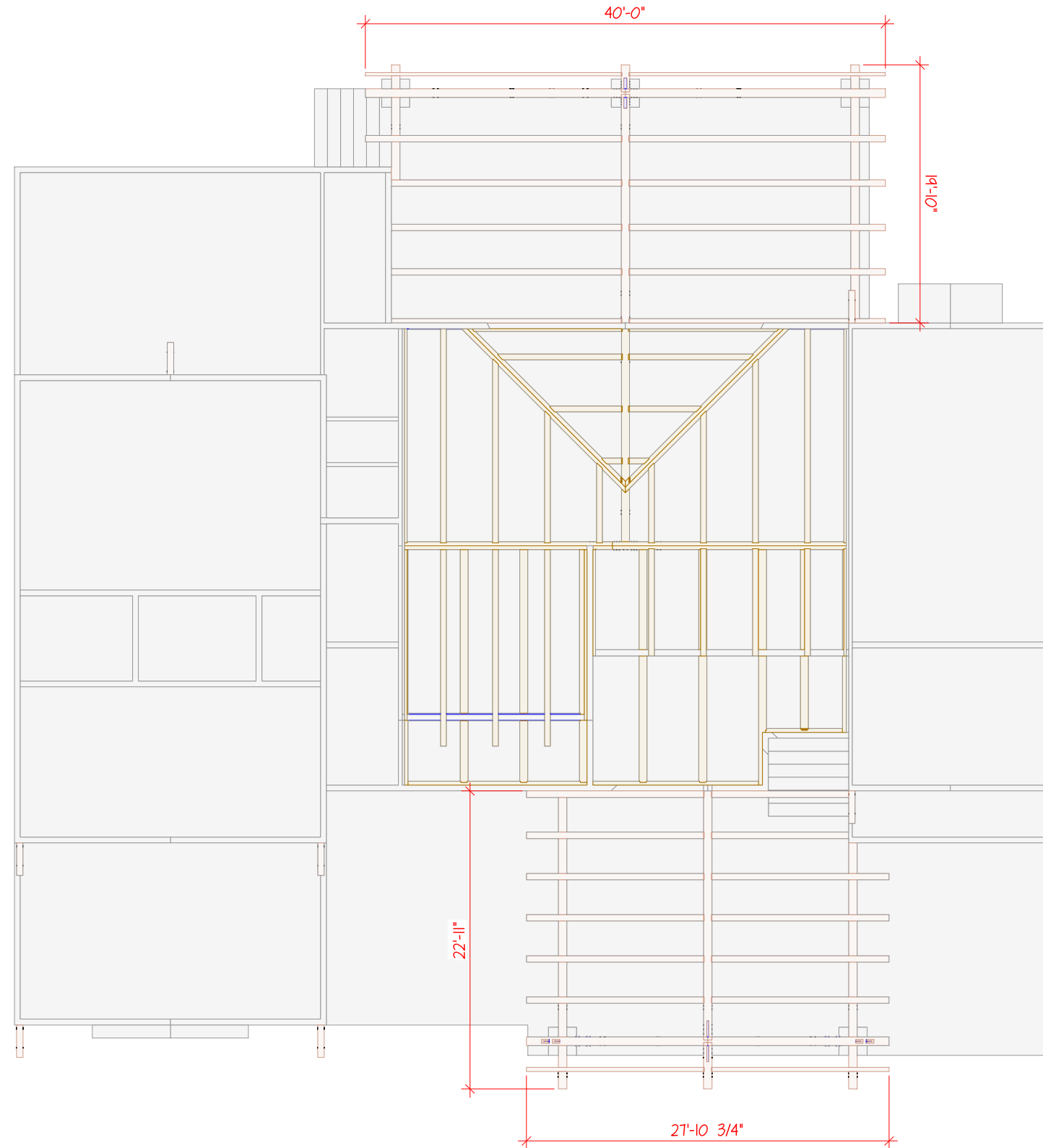
HOUSINGS FOR 6X AND LARGER STOCK SHALL BE 1", UNLESS SPECIFIED OTHERWISE. WHERE 6x FRAMING IS NOT DIRECTLY SUPPORTING ROOF OR FLOOR LOADS, STUB TENONS MAY BE USED IN PLACE OF FULL 1" HOUSINGS. 4X MATERIAL, INCLUDING BRACES, SHALL BE HOUSED 1/2". BIRDS MOUTHS, REDUCTIONS, AND COPEs NOT SUPPORTED BY A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



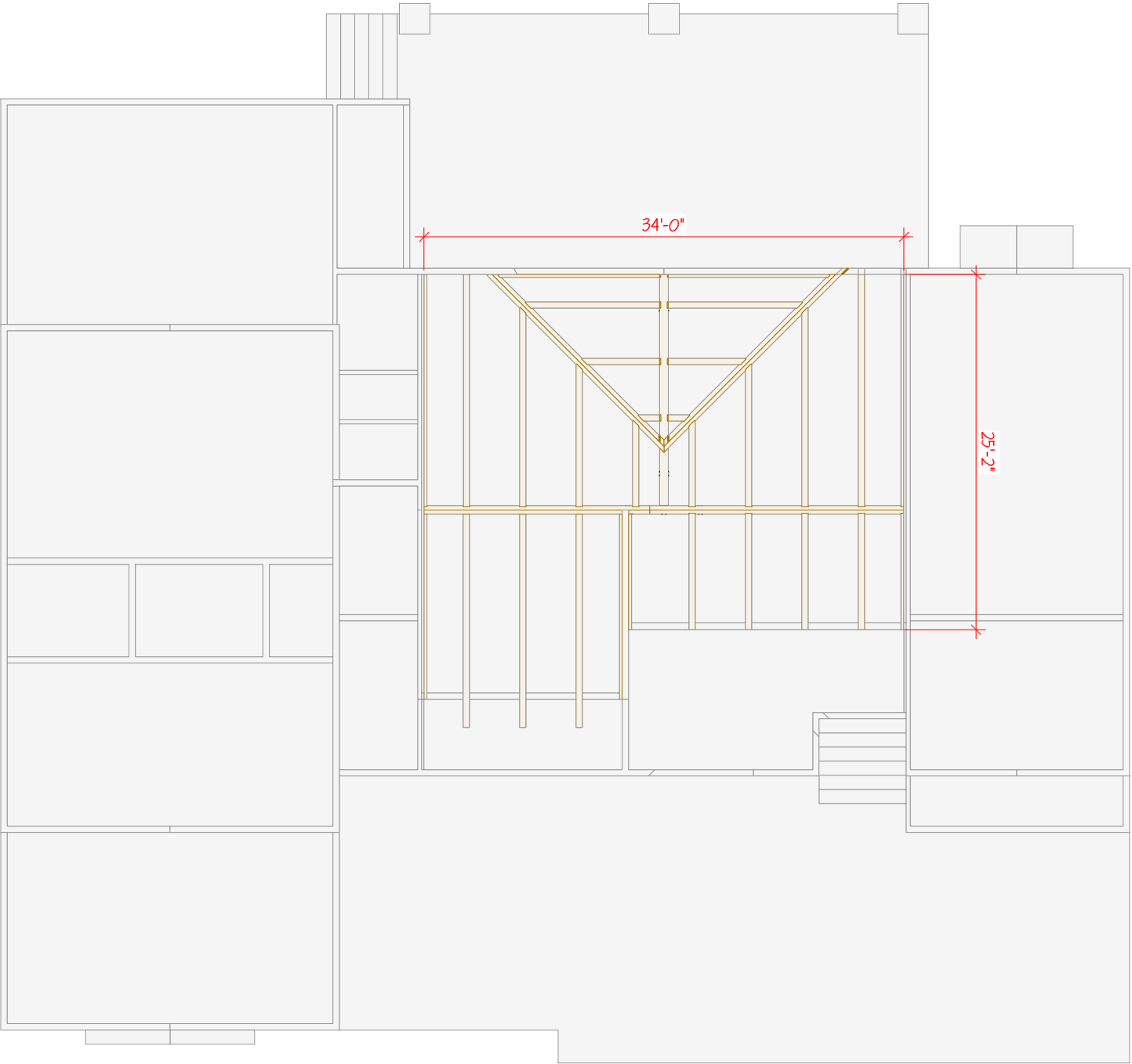
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PROJECT OVERVIEW	SCALE: 3/32" = 1'-0"				



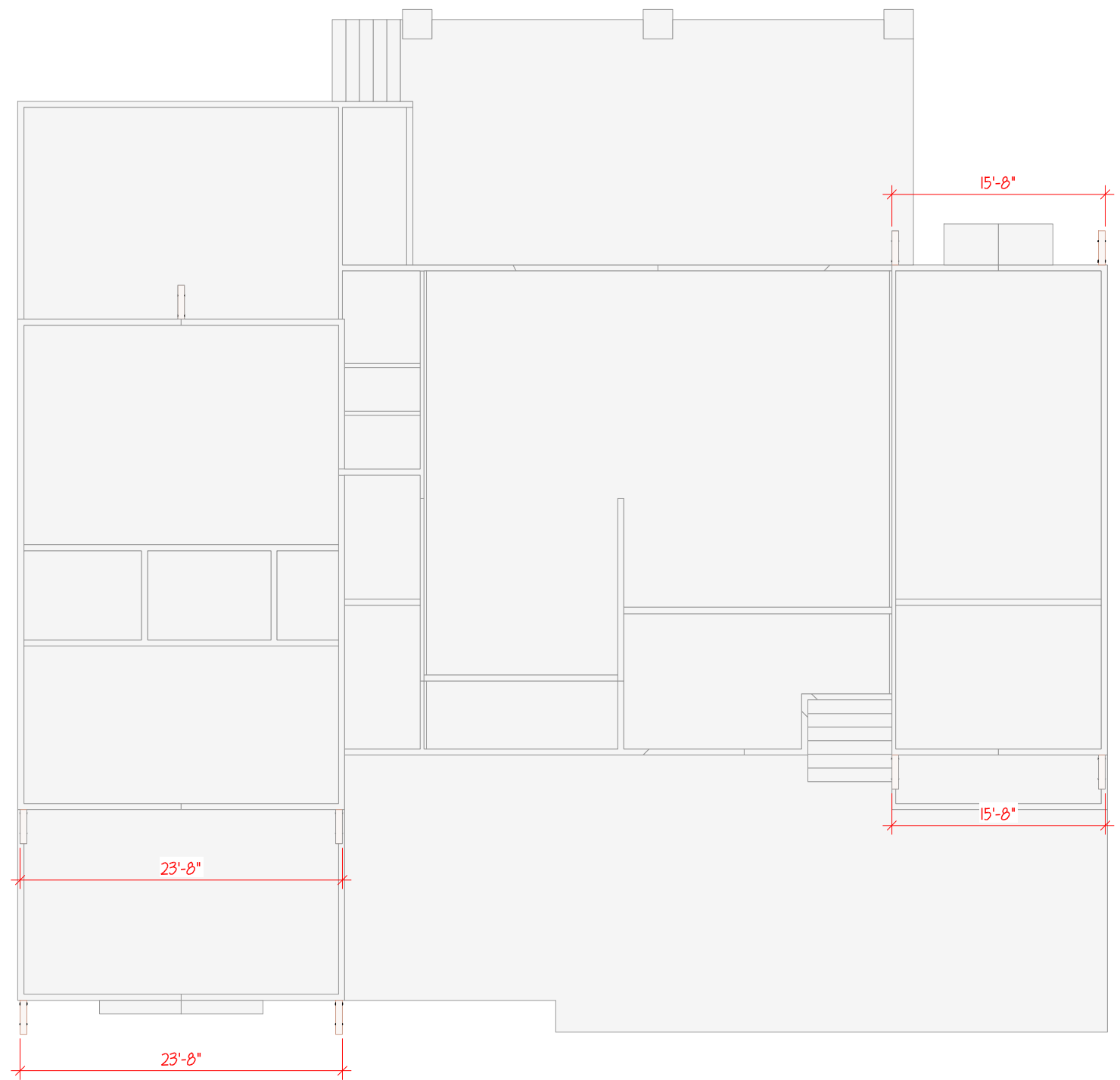
" " RESIDENCE		ARCHITECT: CLIENT: DRAWN BY:	DATE: 07-01-19  SHEET TF 5 OF 32		
FIRST FLOOR PLAN	SCALE: 3/32" = 1'-0"				



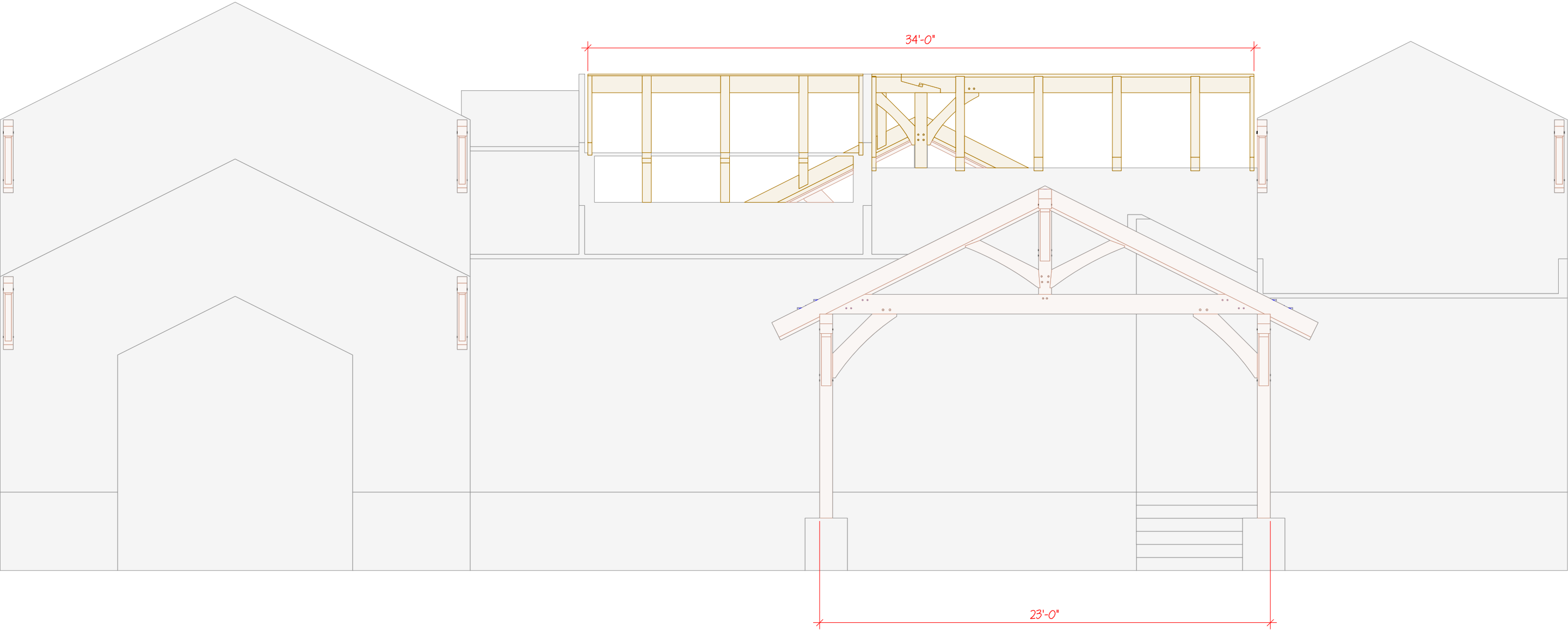
" " RESIDENCE		ARCHITECT: CLIENT: DRAWN BY:	DATE: 07-01-19  SHEET TF 5 OF 32		
FIRST FLOOR PLAN	SCALE: 3/32" = 1'-0"				



" " RESIDENCE		ARCHITECT: CLIENT: DRAWN BY:	DATE: 07-01-19  SHEET TF 6 OF 32		
ROOF PLAN	SCALE: 1/8" = 1'-0"				

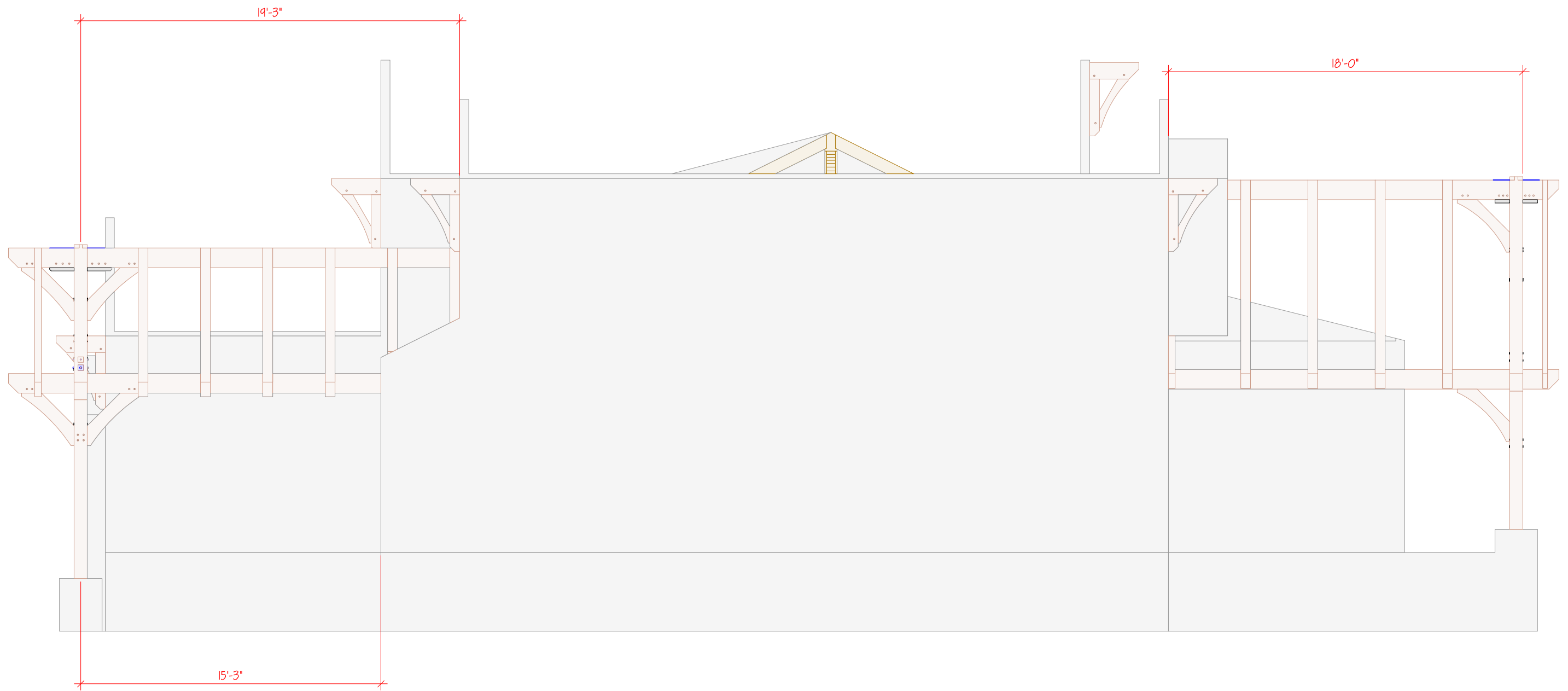


" " RESIDENCE		ARCHITECT: CLIENT: DRAWN BY:	DATE: 07-01-19  SHEET TF 1 OF 32		
BRACKET PLAN	SCALE: 1/8" = 1'-0"				

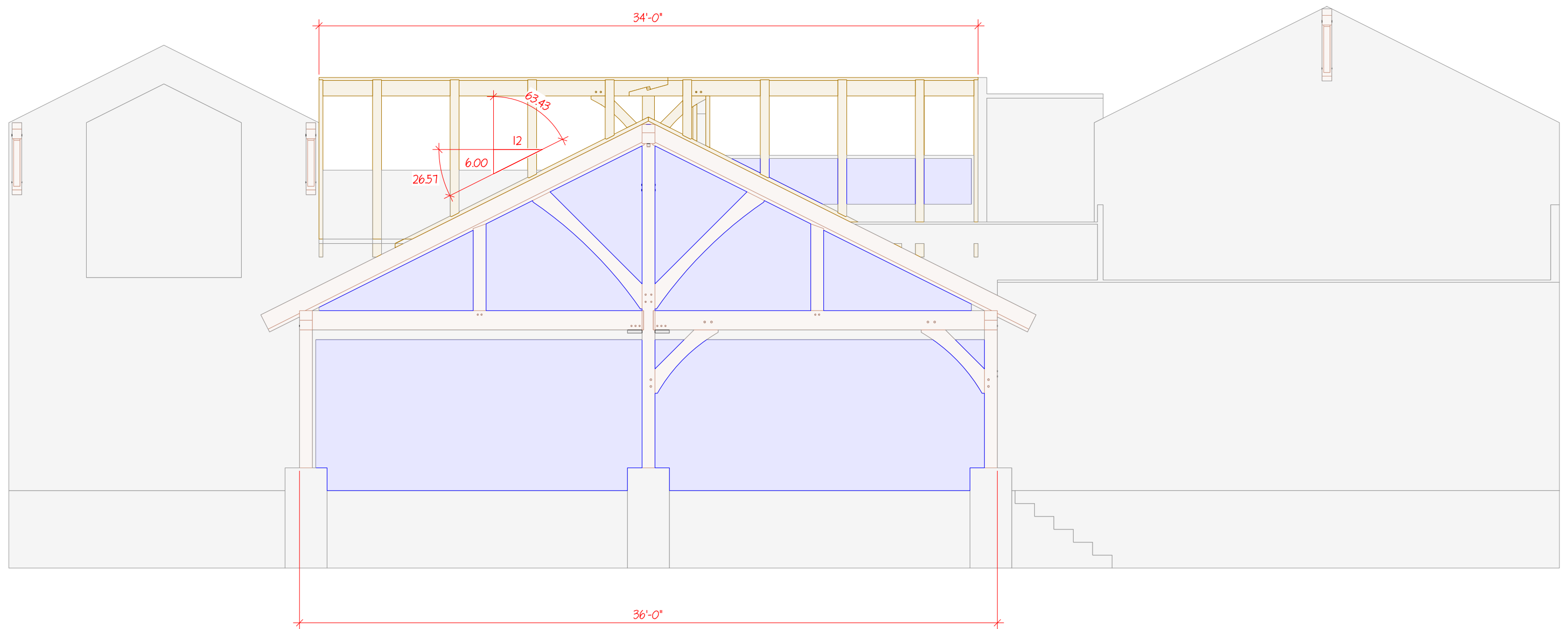


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NORTH ELEVATION	SCALE: 3/16" = 1'-0"				

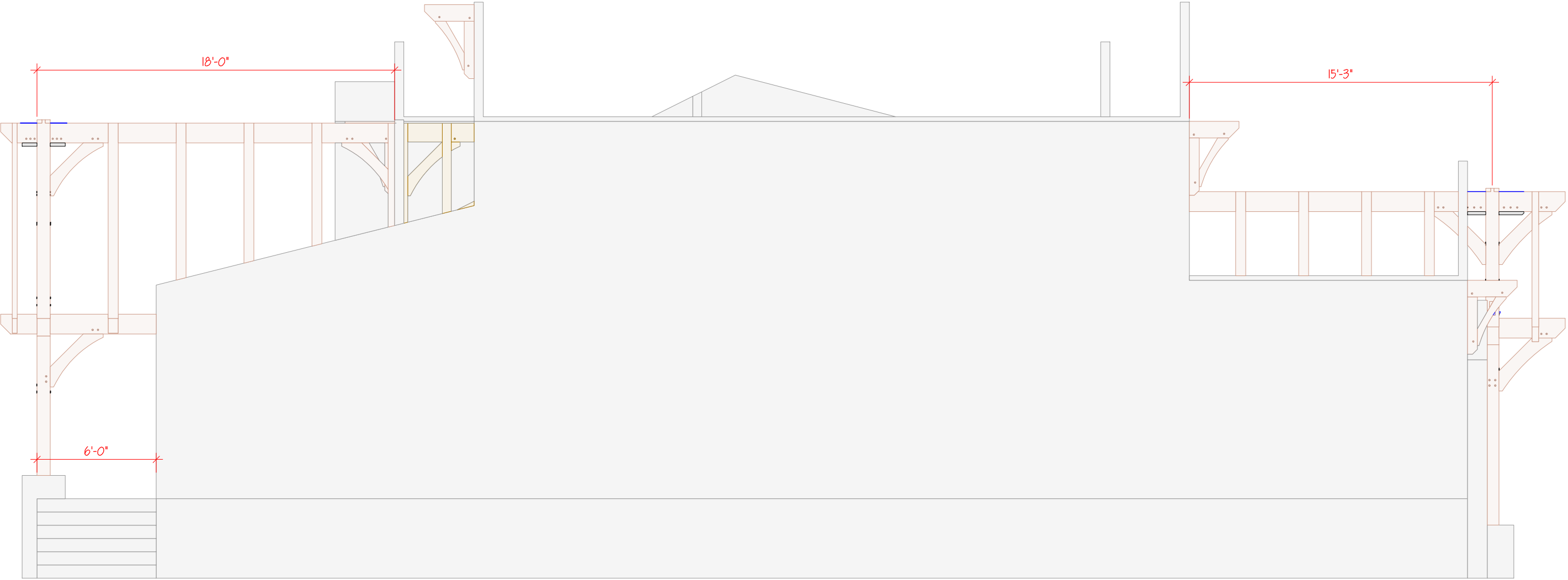




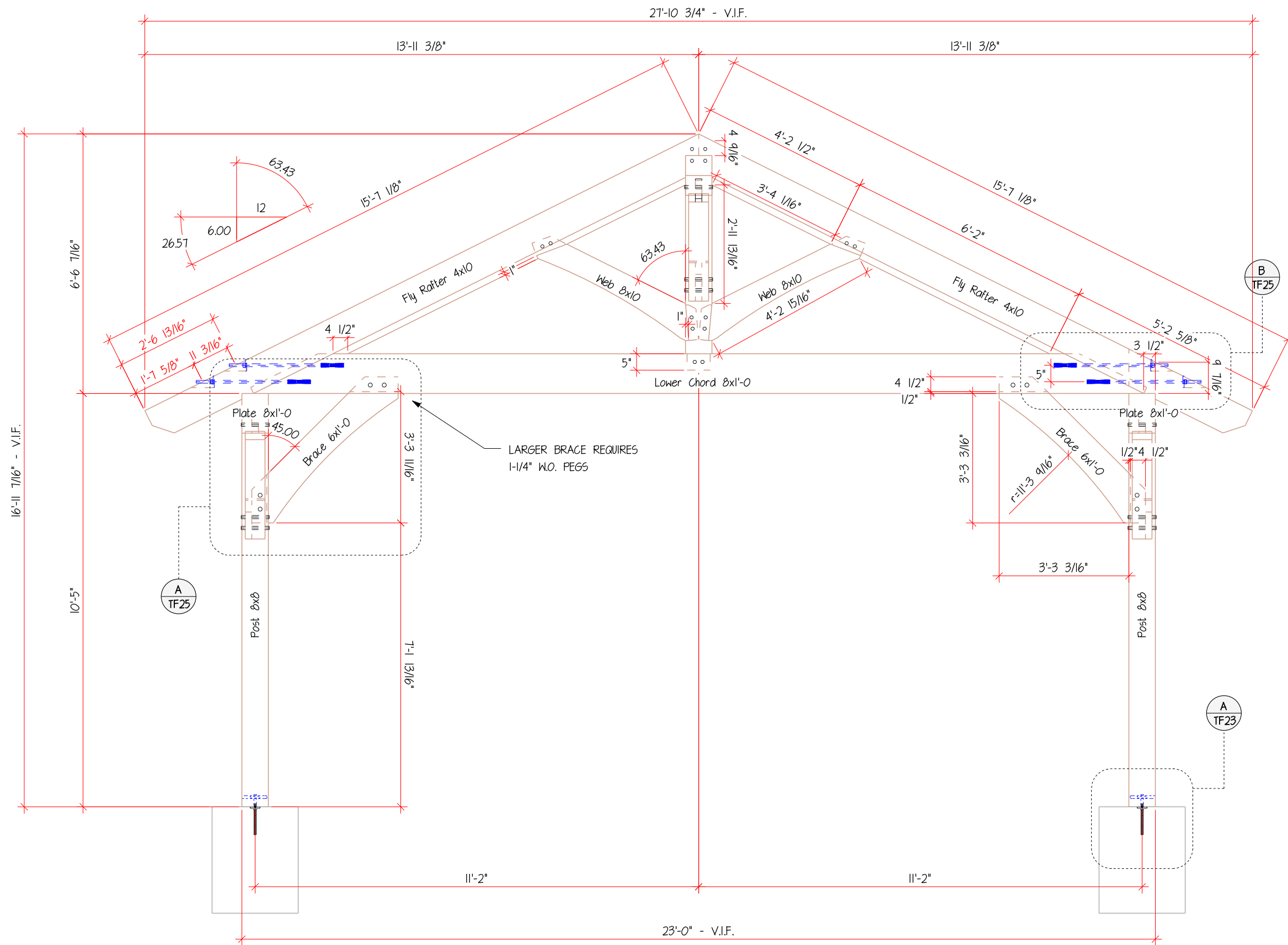
" " RESIDENCE		ARCHITECT: CLIENT: DRAWN BY:	DATE: 07-01-19  SHEET TF 9 OF 32		
EAST ELEVATION	SCALE: 3/16" = 1'-0"				



" RESIDENCE		ARCHITECT: CLIENT: DRAWN BY:	DATE: 07-01-19  SHEET TF 10 OF 32		
SOUTH ELEVATION	SCALE: 3/16" = 1'-0"				

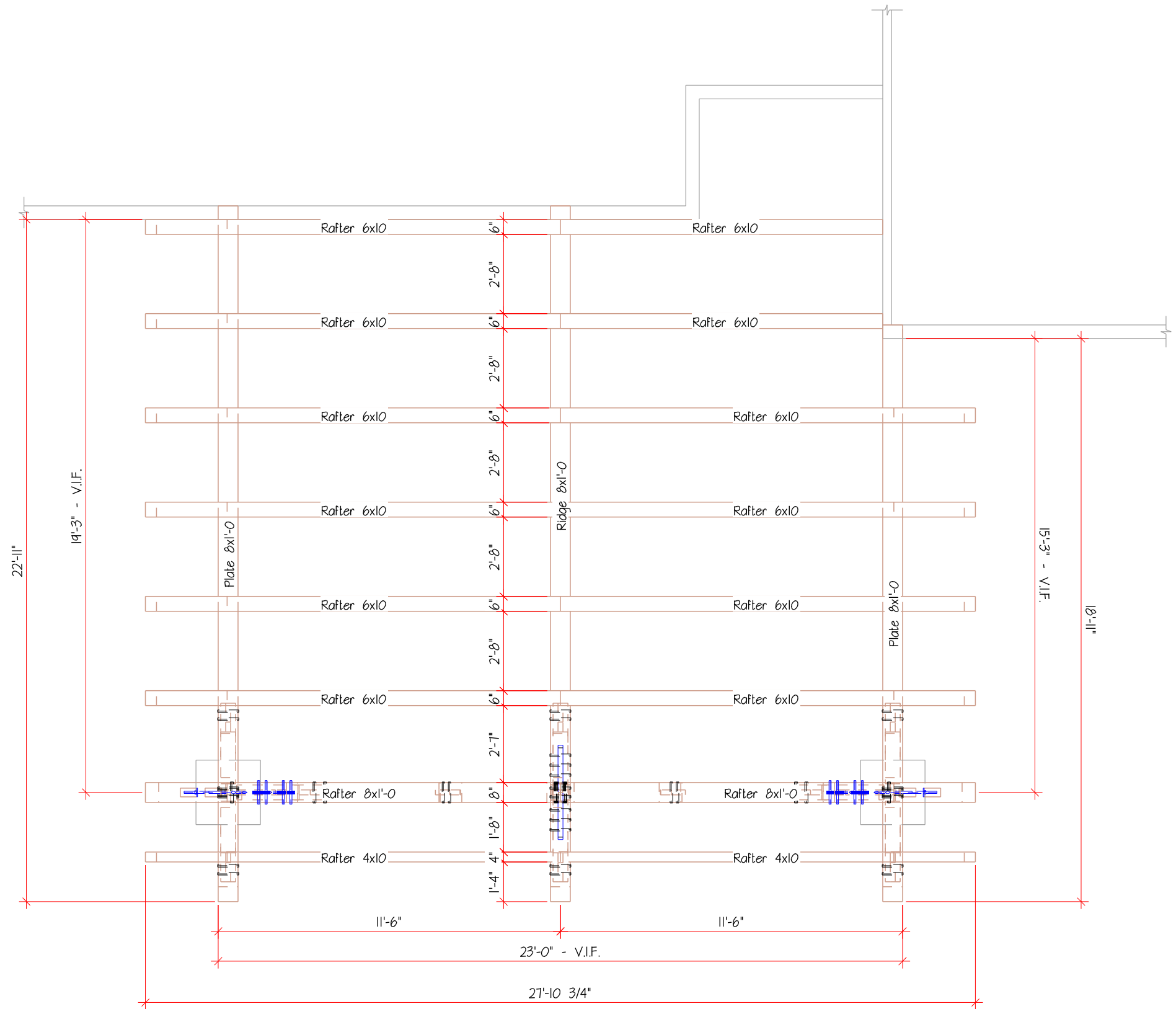


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WEST ELEVATION	SCALE: 3/16" = 1'-0"				

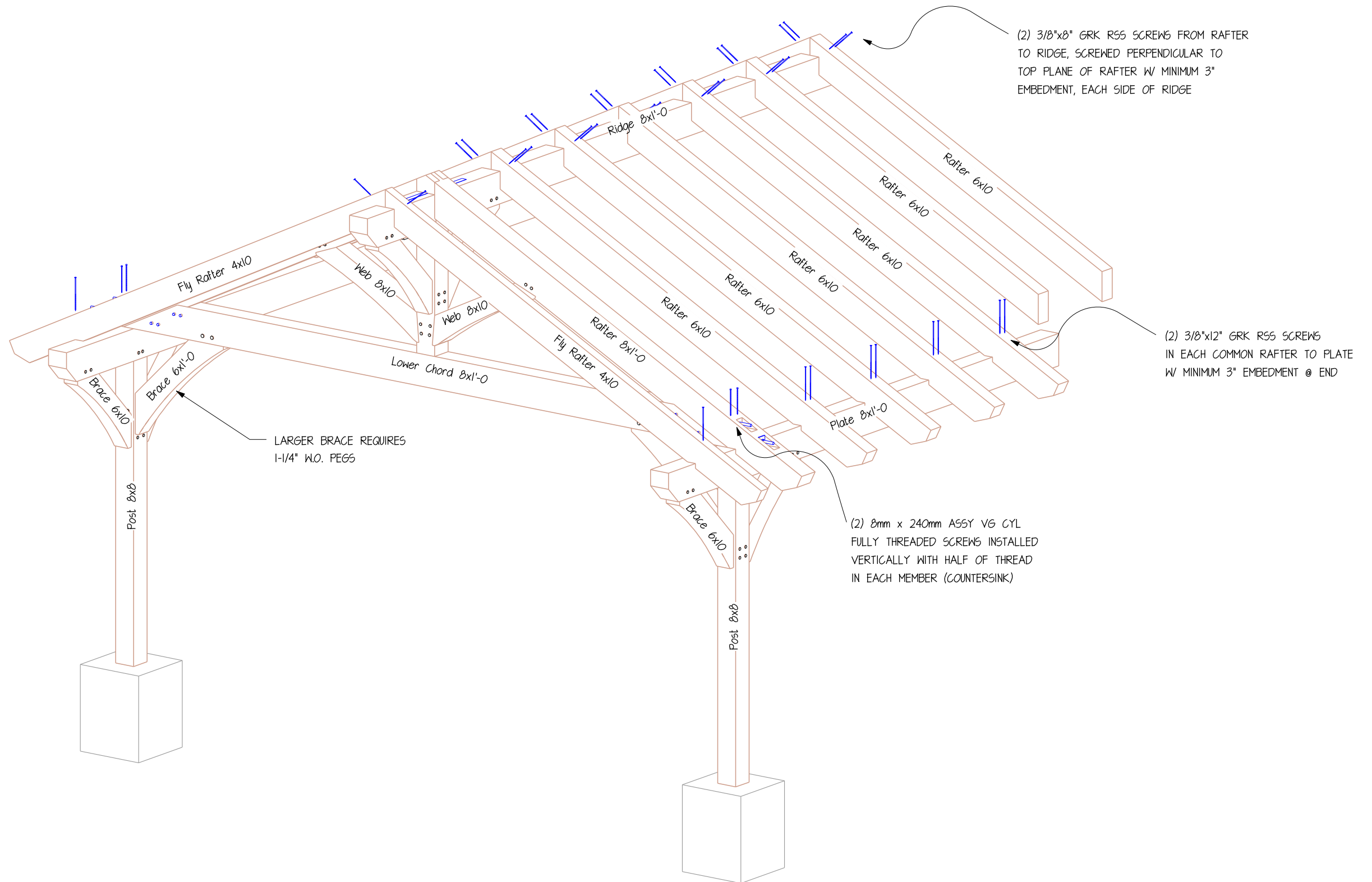


" " RESIDENCE	ARCHITECT:	DATE: 07-01-19	SHEET TF 12 OF 32		
PORTE COCHERE	SCALE: 1/2" = 1'-0"	CLIENT: DRAWN BY:			

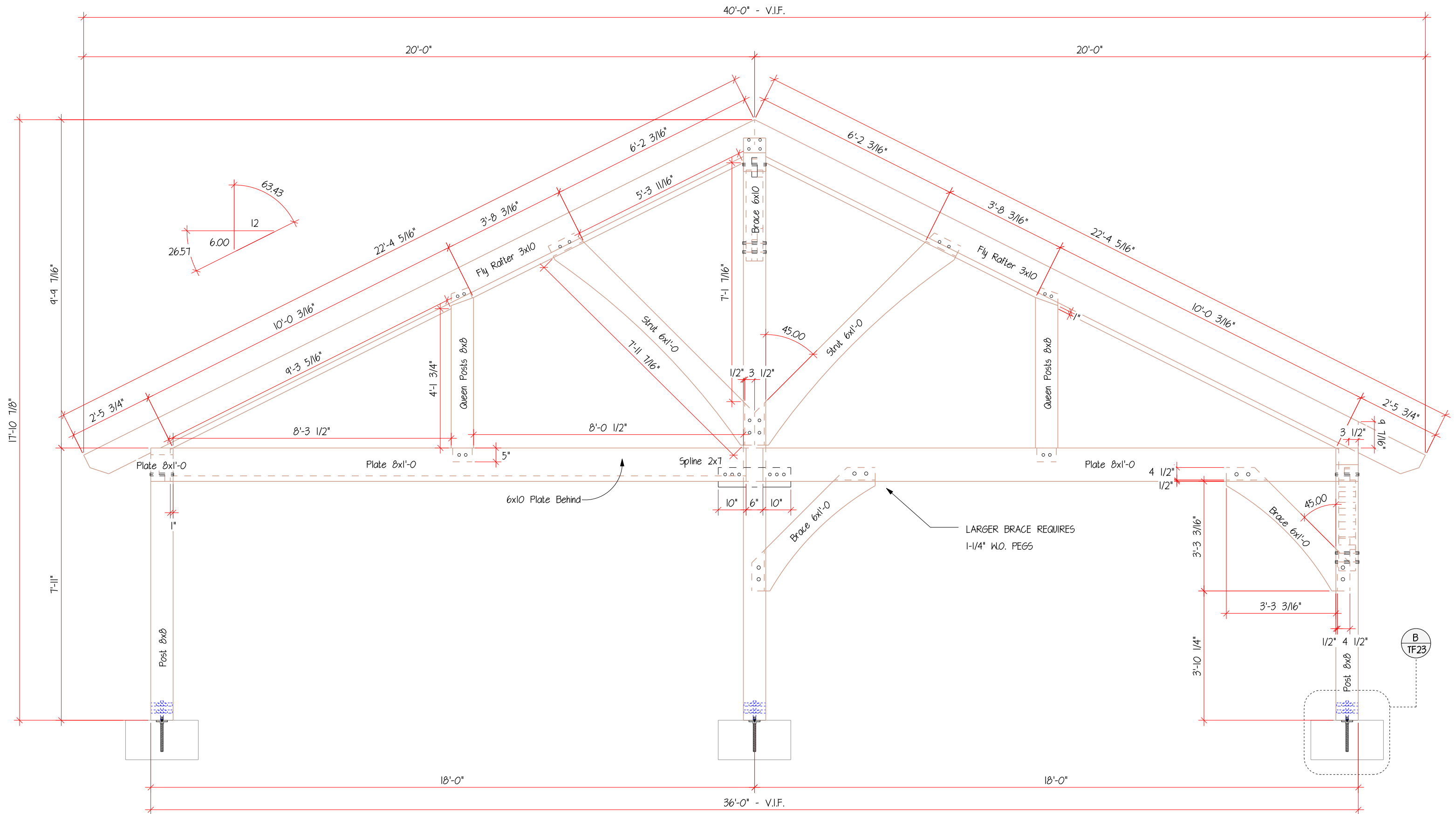




" RESIDENCE		ARCHITECT: CLIENT: DRAWN BY:	DATE: 07-01-19 SHEET TF 14 OF 32		
PORTE COCHERE	SCALE: 1/4" = 1'-0"				



" " RESIDENCE		ARCHITECT: CLIENT: DRAWN BY:	DATE: 07-01-19  SHEET TF 15 OF 32		
PORTE COCHERE					



"	" RESIDENCE
COVERED DECK	SCALE: 3/8" = 1'-0"

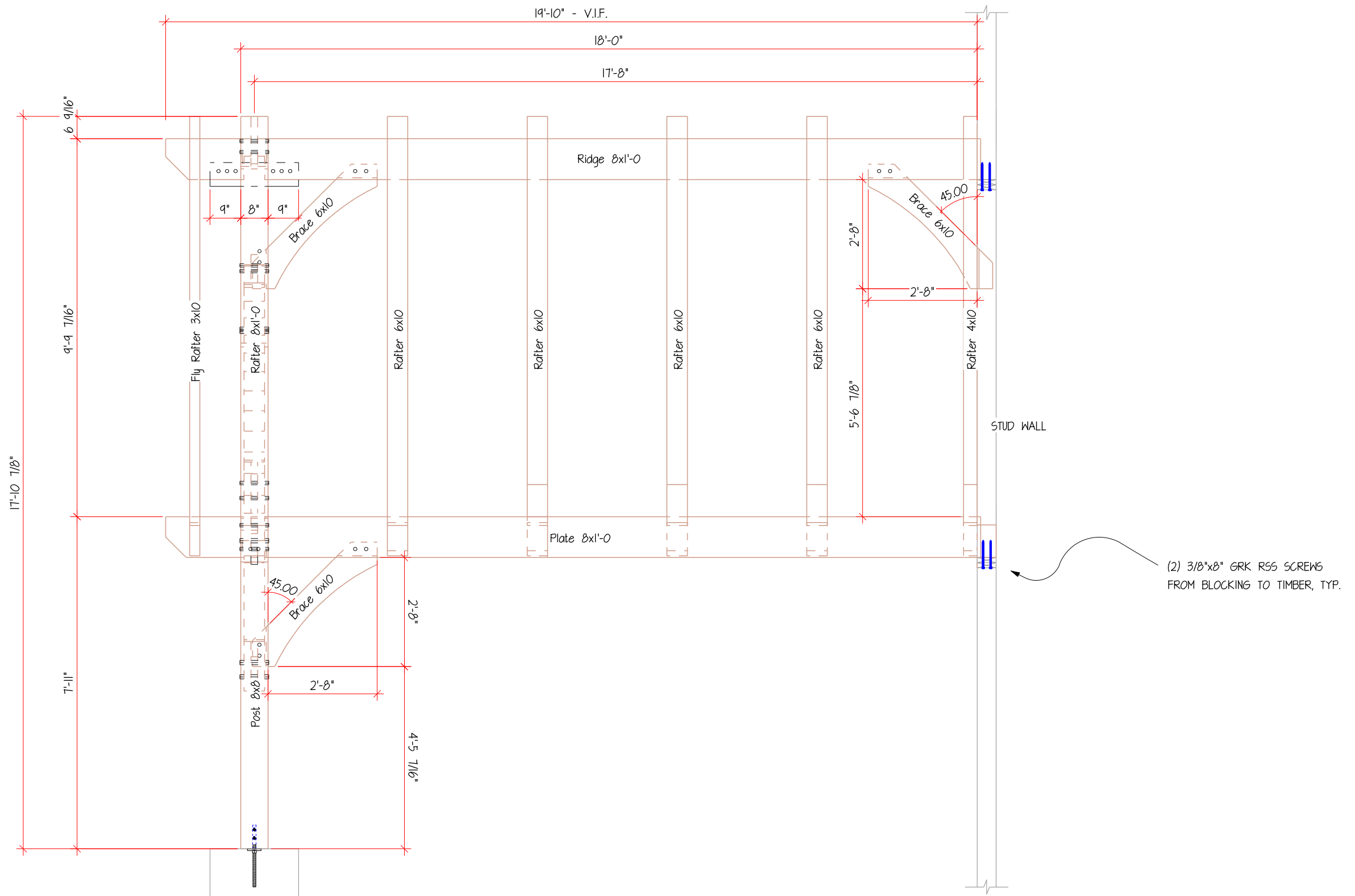
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CLIENT:  
DRAWN BY:

DATE: 07-01-19

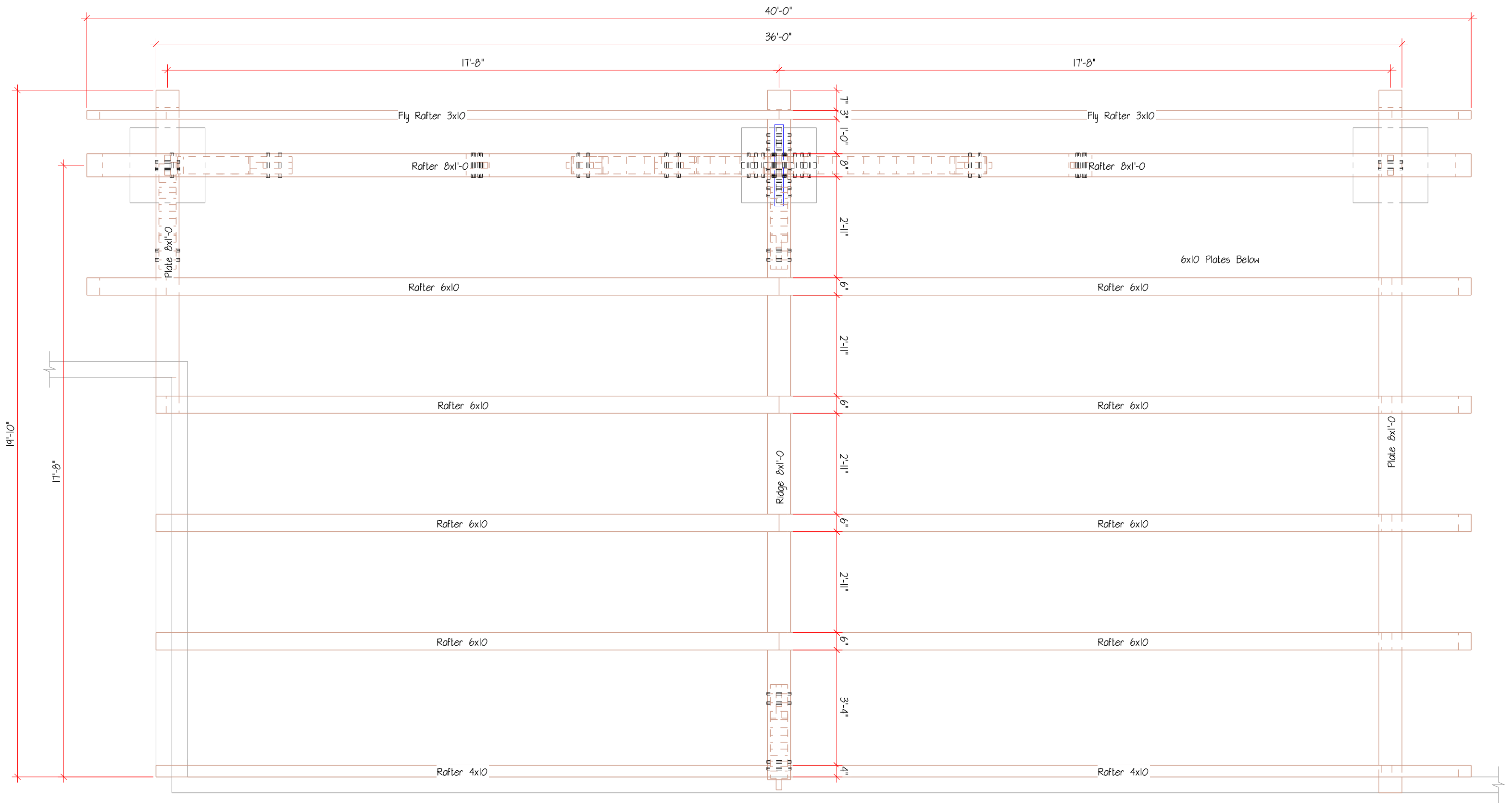
SHEET TF 16 OF 32







" " RESIDENCE		ARCHITECT: CLIENT: DRAWN BY:	DATE: 07-01-19  SHEET TF 17 OF 32		
COVERED DECK	SCALE: 3/8" = 1'-0"				

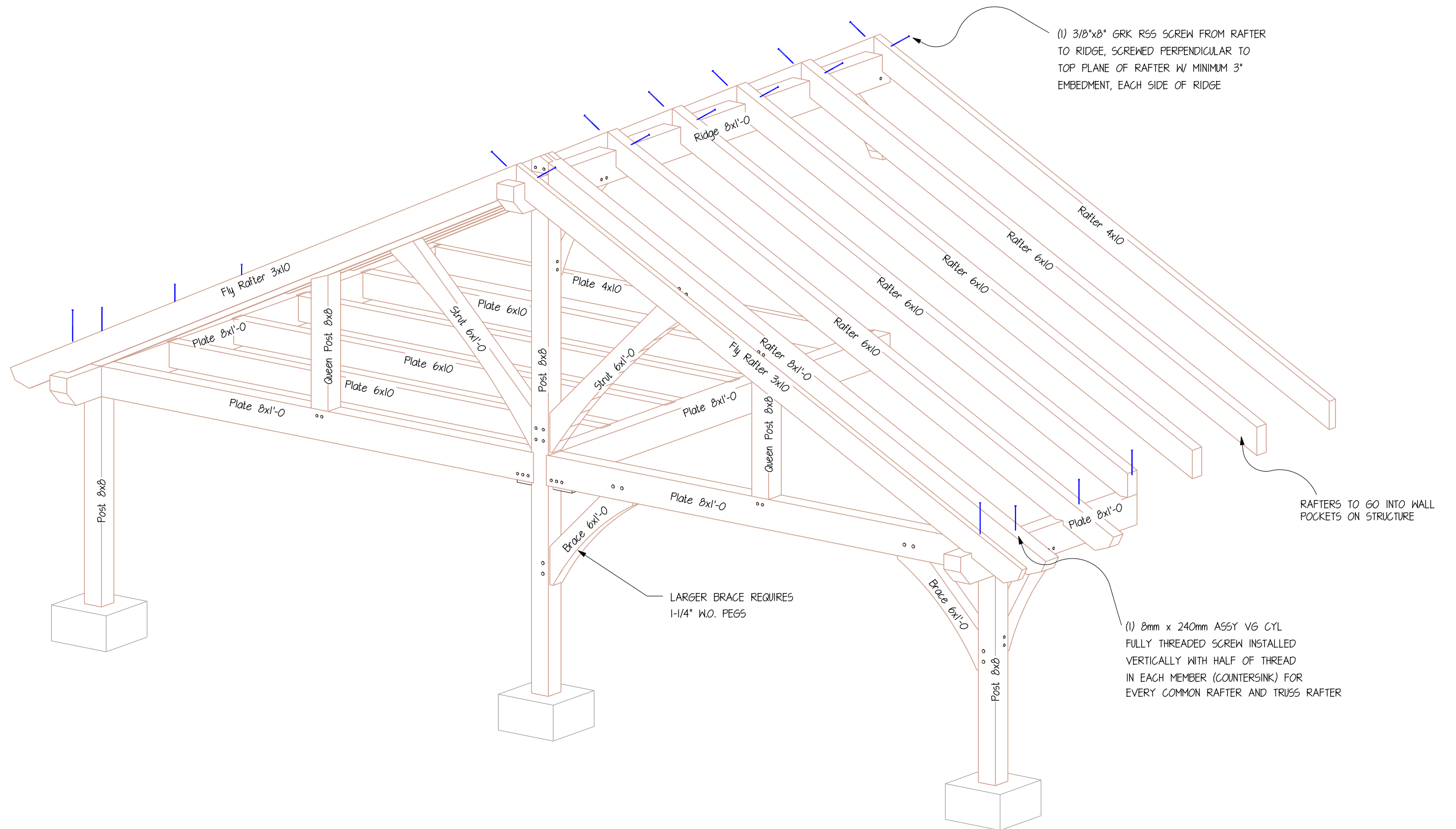


"	" RESIDENCE
COVERED DECK	SCALE: 3/8" = 1'-0"

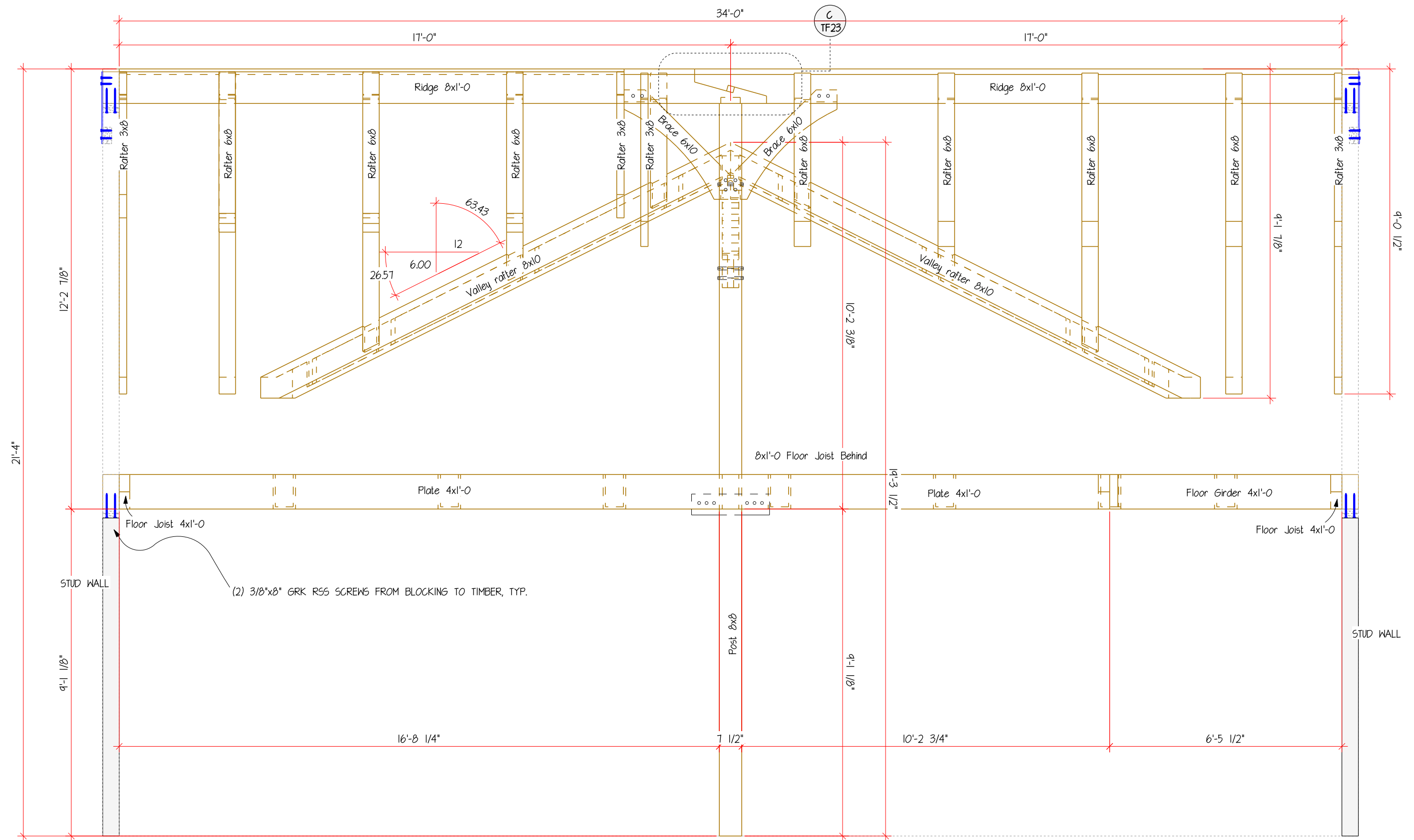
ARCHITECT:  
CLIENT:  
DRAWN BY:

DATE: 07-01-19  
SHEET TF 18 OF 32

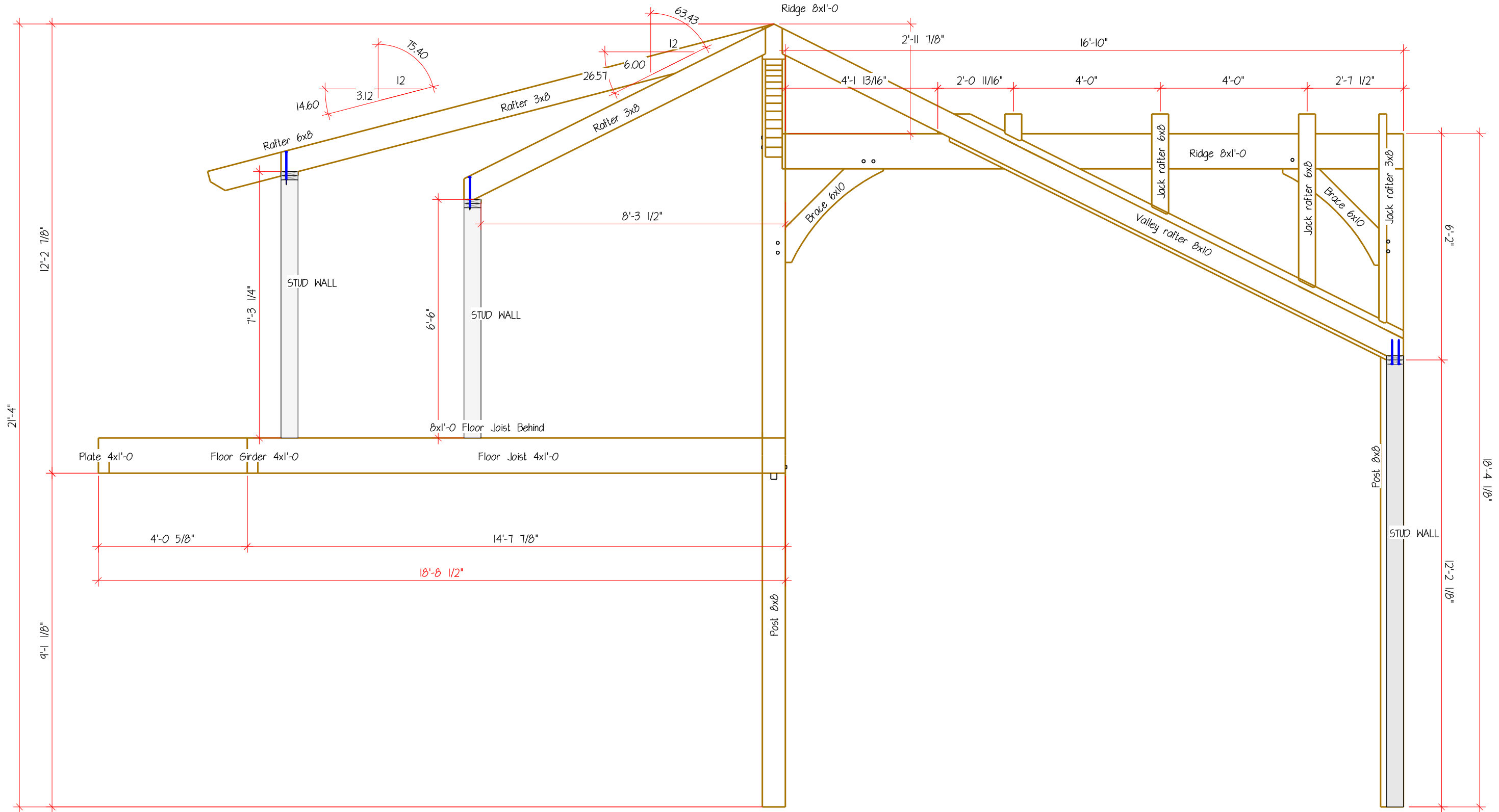


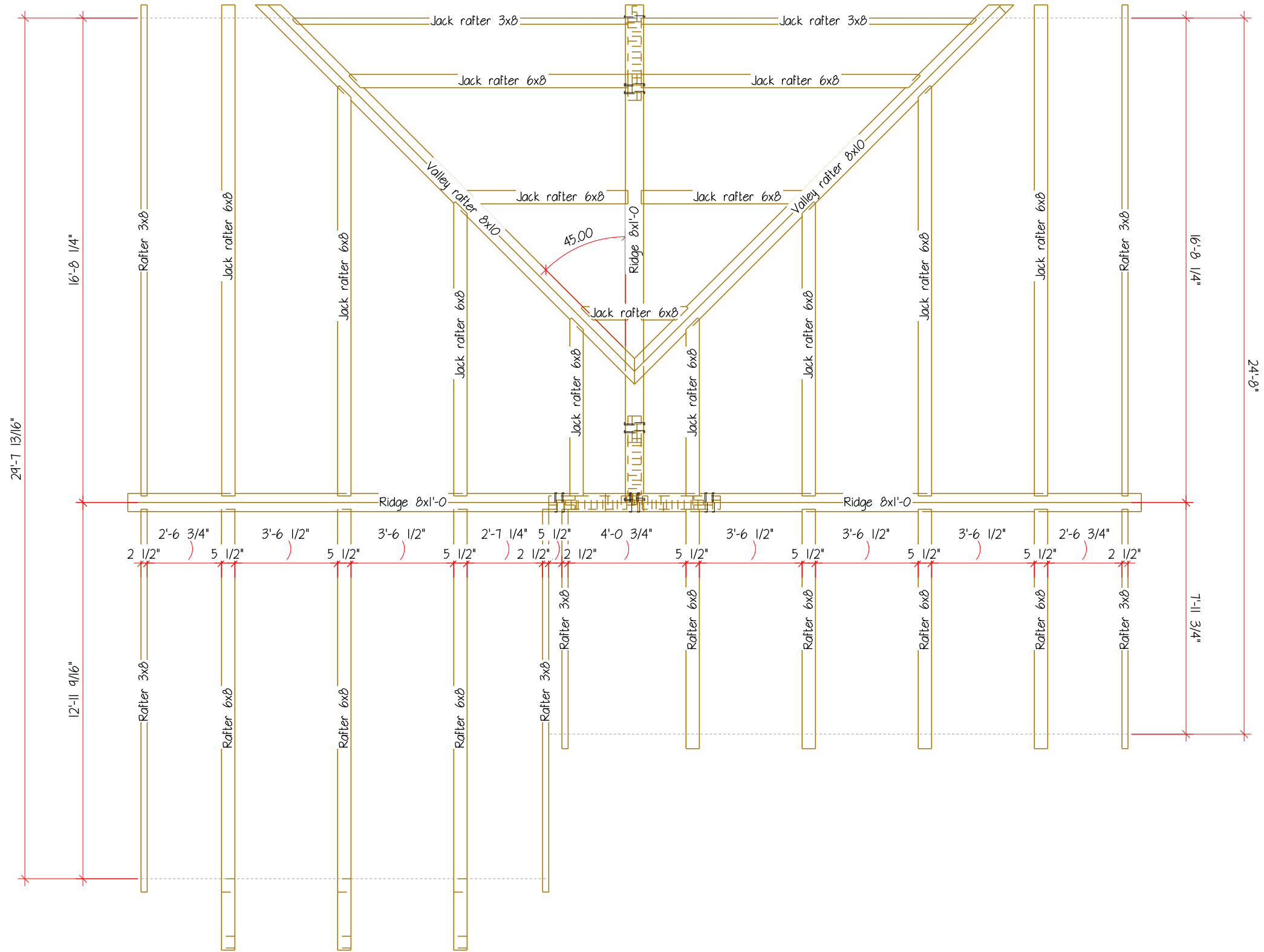


" " RESIDENCE		ARCHITECT: CLIENT: DRAWN BY:	DATE: 07-01-19  SHEET TF 19 OF 32		
COVERED DECK					

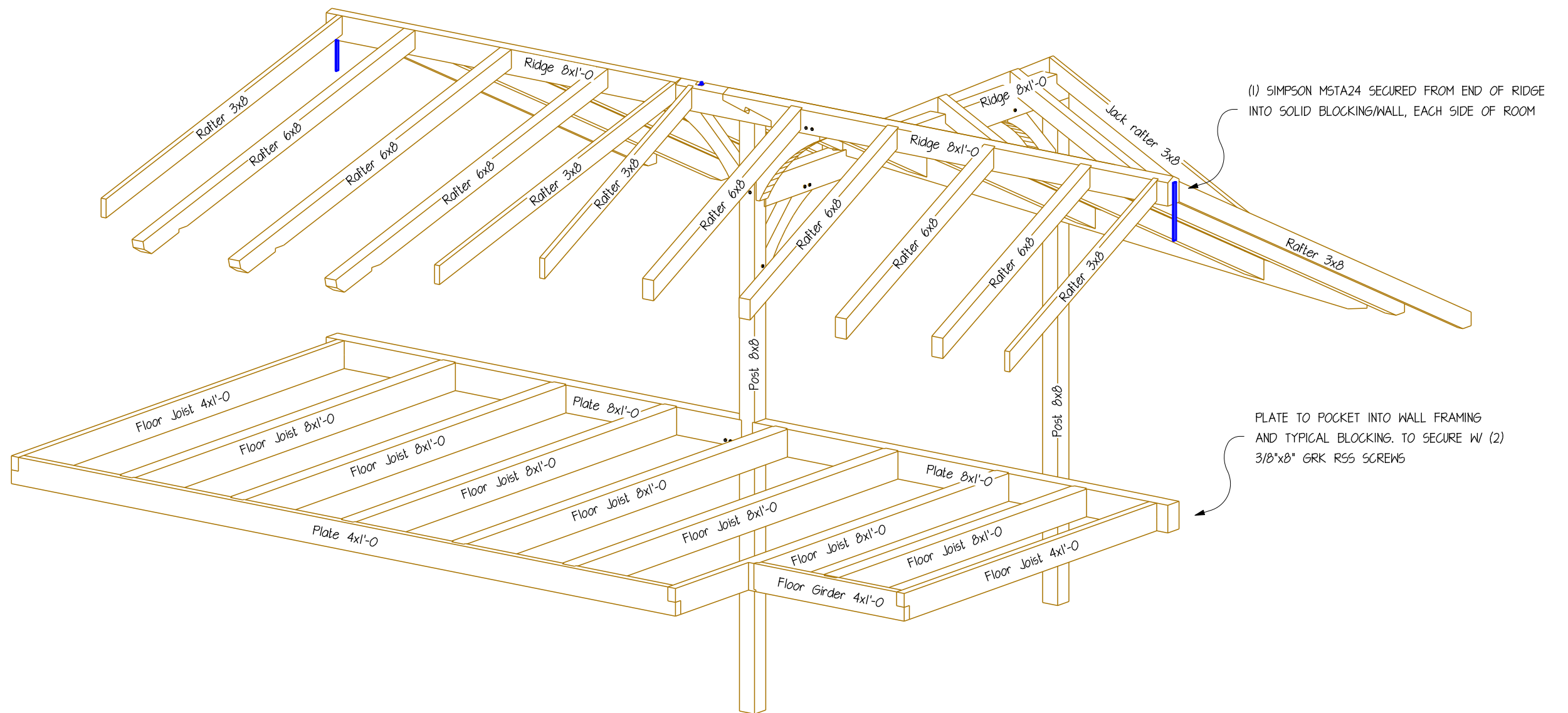


" RESIDENCE	ARCHITECT:	DATE: 07-01-19	SHEET TF 20 OF 32		
KITCHEN/DINNING	SCALE: 3/8" = 1'-0"	CLIENT: DRAWN BY:			





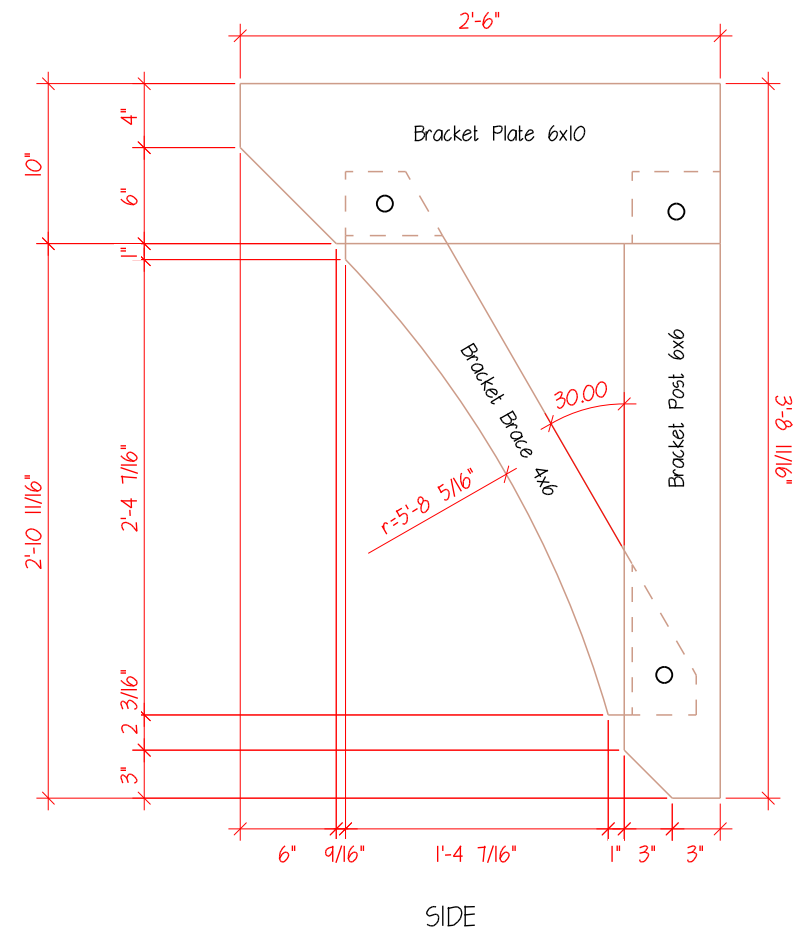
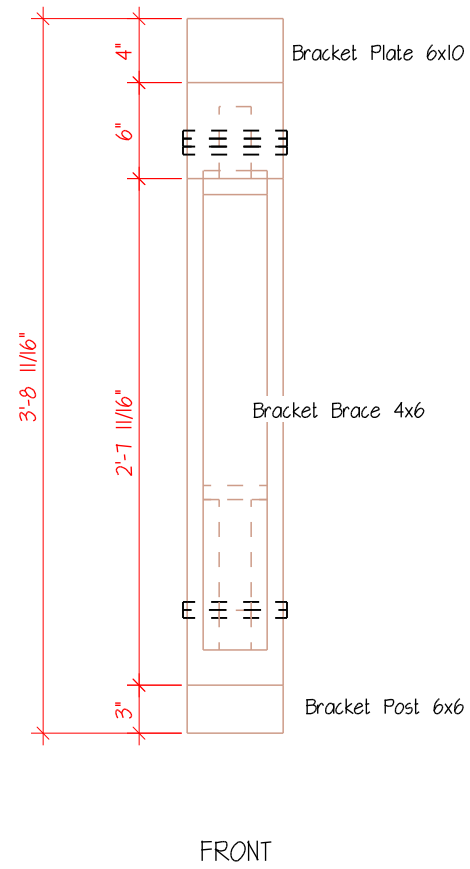
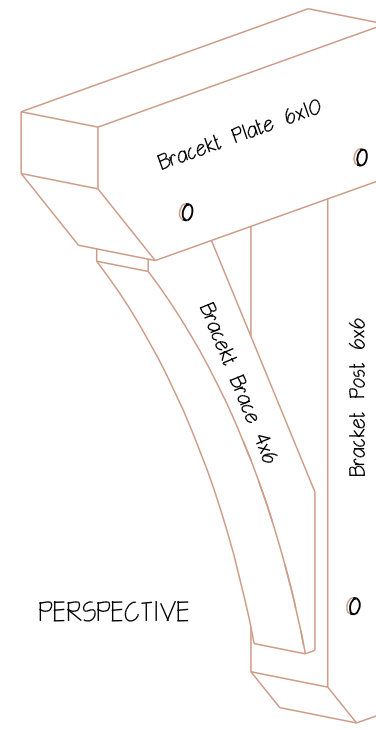
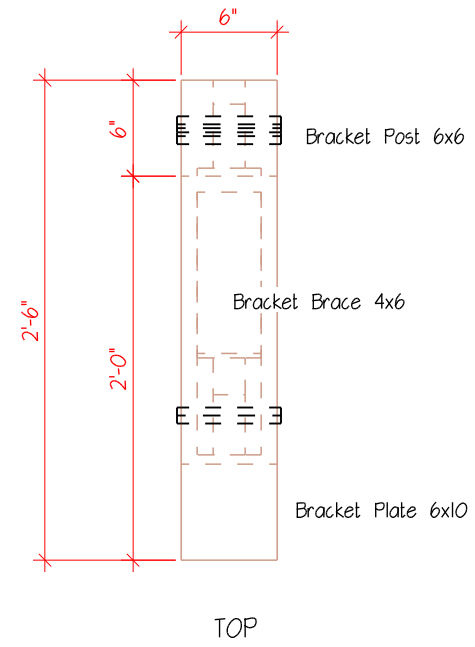




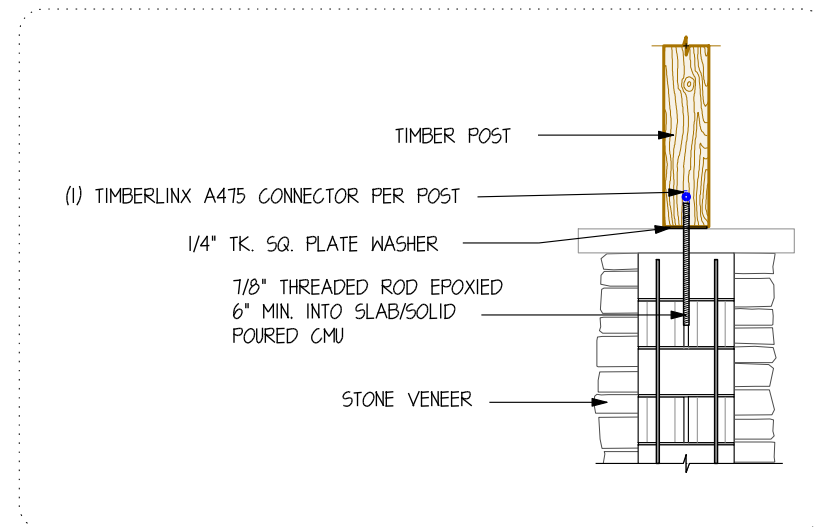
" " RESIDENCE		ARCHITECT: CLIENT: DRAWN BY:	DATE: 07-01-19  SHEET TF 24 OF 32		
KITCHEN/DINNING					



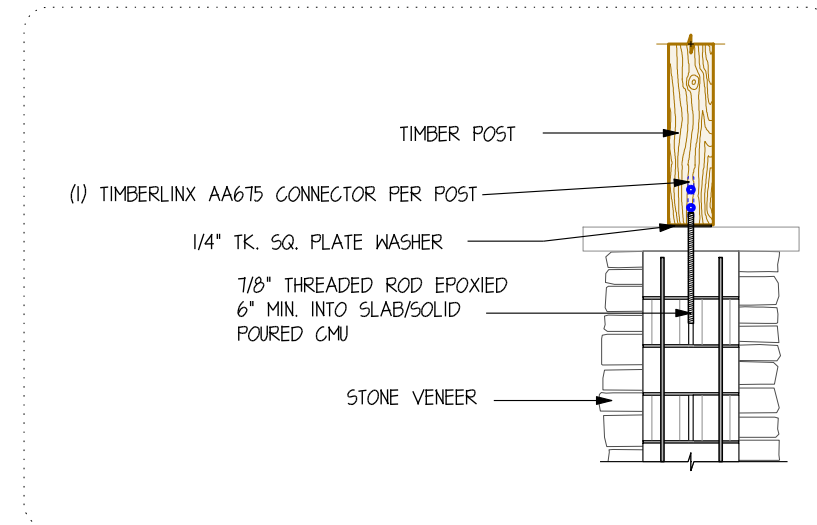




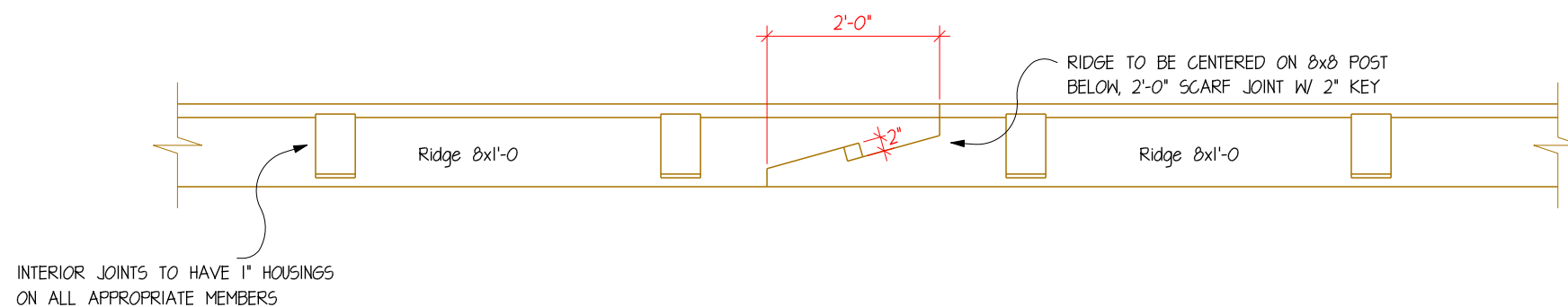
"	" RESIDENCE	ARCHITECT: CLIENT: DRAWN BY:	DATE: 07-01-19 SHEET TF 26 OF 32		
BRACKET DETAILS	SCALE: 1" = 1'-0"				



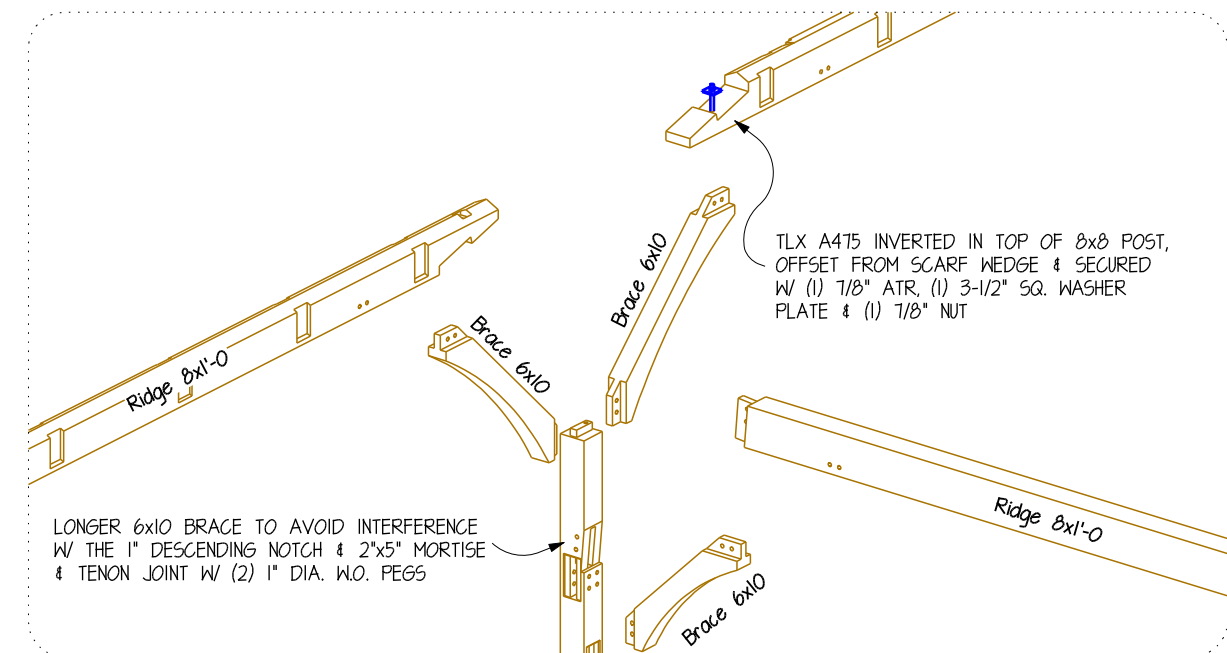
**A** TLX A475 POST BASE CONNECTION  
REF. TF8 SCALE: 3/8"=1'-0"



**B** TLX AA675 POST BASE CONNECTION  
REF. TF12 SCALE: 3/8"=1'-0"

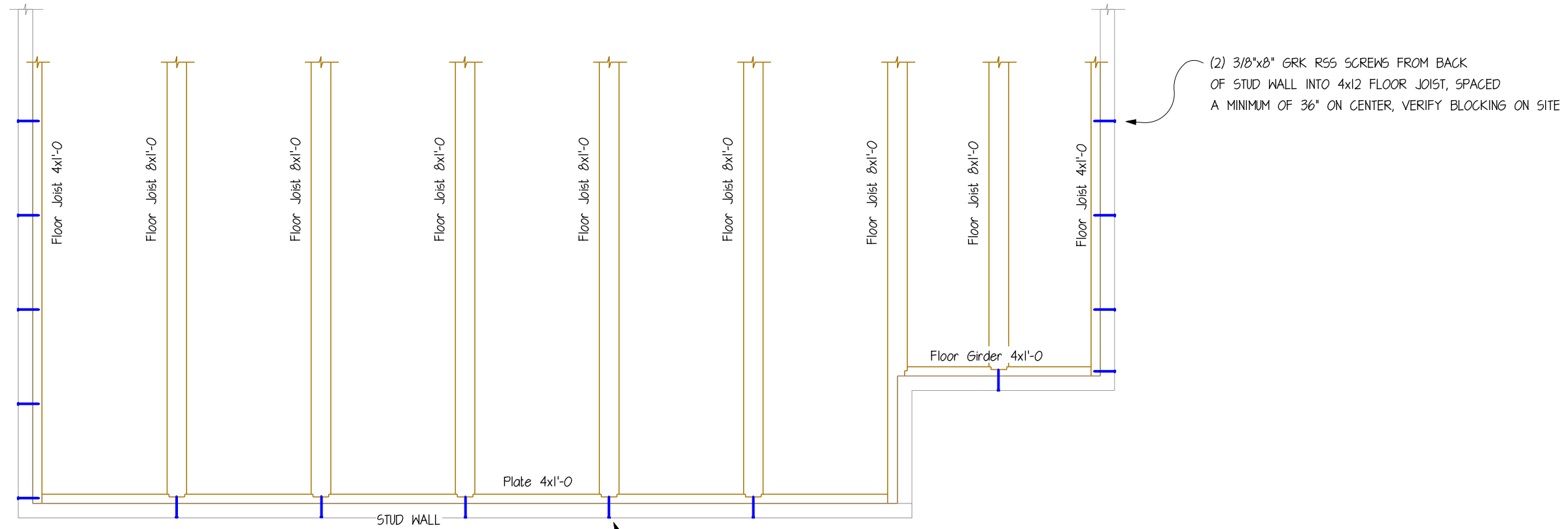


**C** INTERIOR RIDGE SCARF CONNECTION DETAIL  
REF. TF16 SCALE: 1/2"=1'-0"



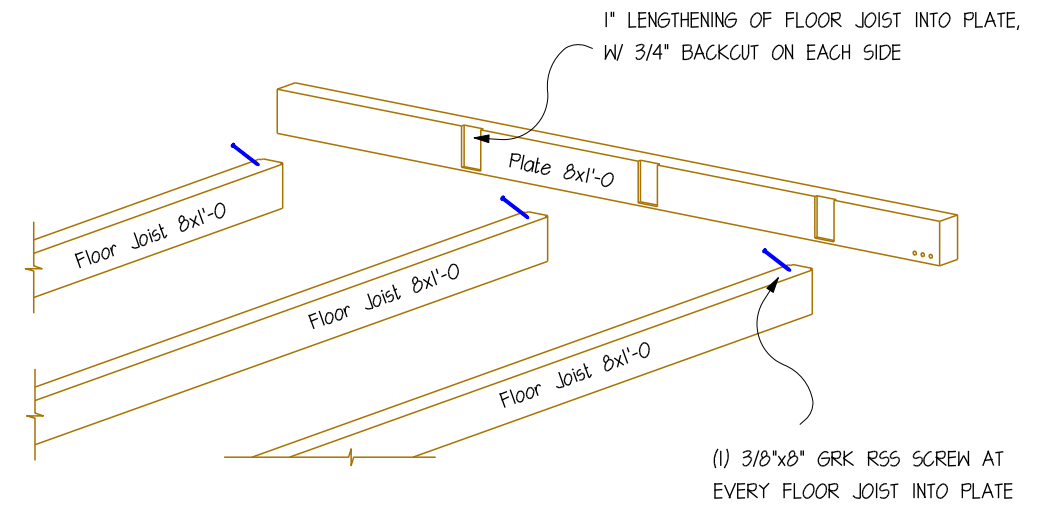
**D** INTERIOR RIDGE SCARF CONNECTION DETAIL  
REF. TF21 SCALE: 1/4"=1'-0"

" " RESIDENCE		ARCHITECT: CLIENT: DRAWN BY:	DATE: 07-01-19  SHEET TF 27 OF 32		
DETAIL VIEWS					



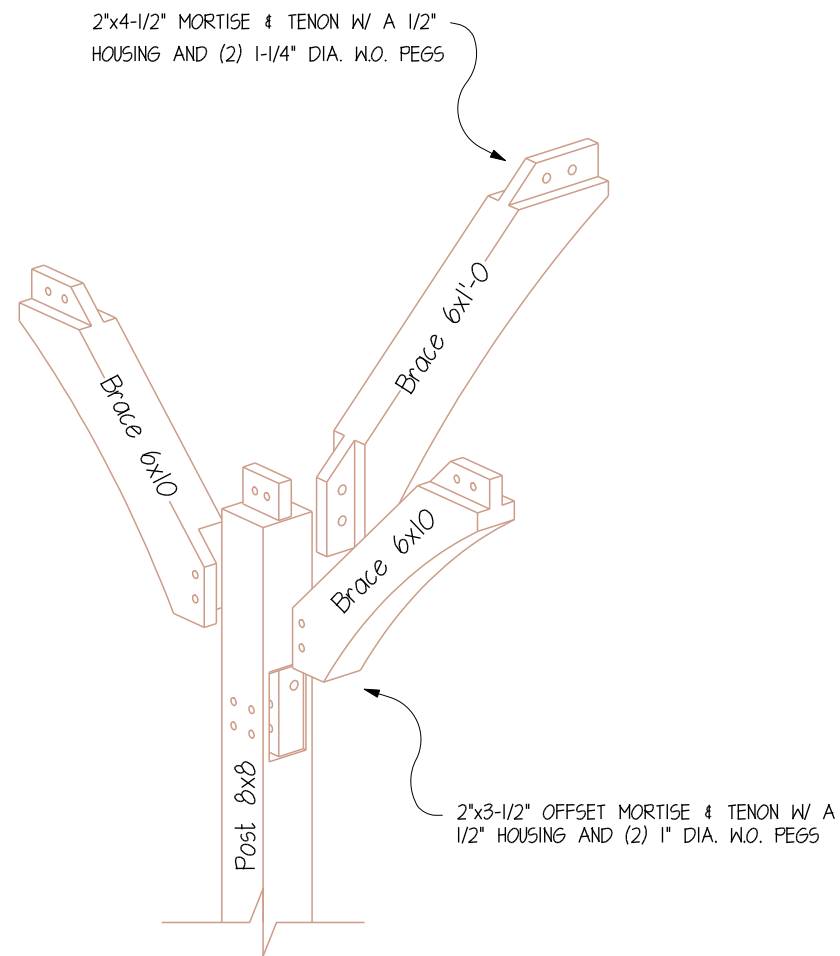
**A** INTERIOR SECOND FLOOR SYSTEM CONNECTION DETAIL  
REF. TF19 SCALE: 1/2"=1'-0"

(2) 3/8"x8" GRK RSS SCREWS FROM BACK OF STUD WALL INTO 4x12 WALL PLATES AT EVERY FLOOR JOIST LOCATION, VERIFY BLOCKING DIRECTION ON SITE

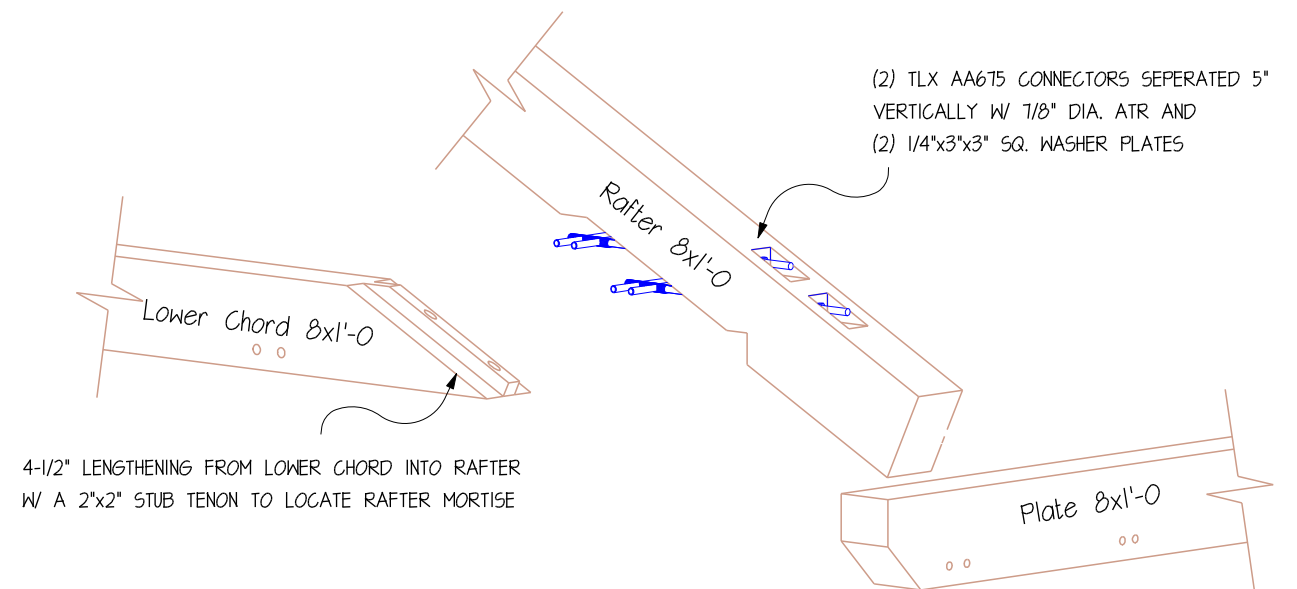


**B** INTERIOR SECOND FLOOR SYSTEM CONNECTION DETAIL  
REF. TF19 SCALE: 1/2"=1'-0"

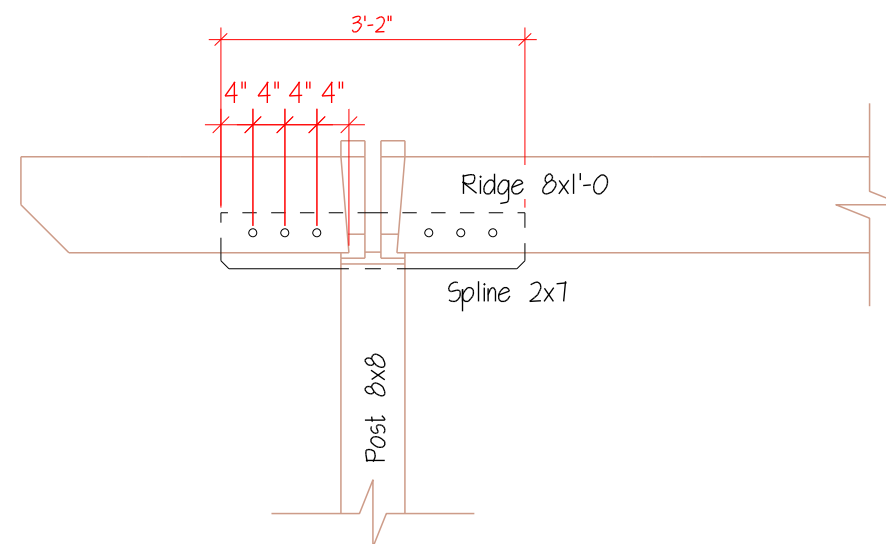
" RESIDENCE		ARCHITECT: CLIENT: DRAWN BY:	DATE: 07-01-19  SHEET TF 28 OF 32		
DETAIL VIEWS	SCALE: 1/4" = 1'-0"				



**(A) PORTE COCHERE POST & BRACE CONNECTION DETAIL**  
REF. TF8 SCALE: 1/2"=1'-0"

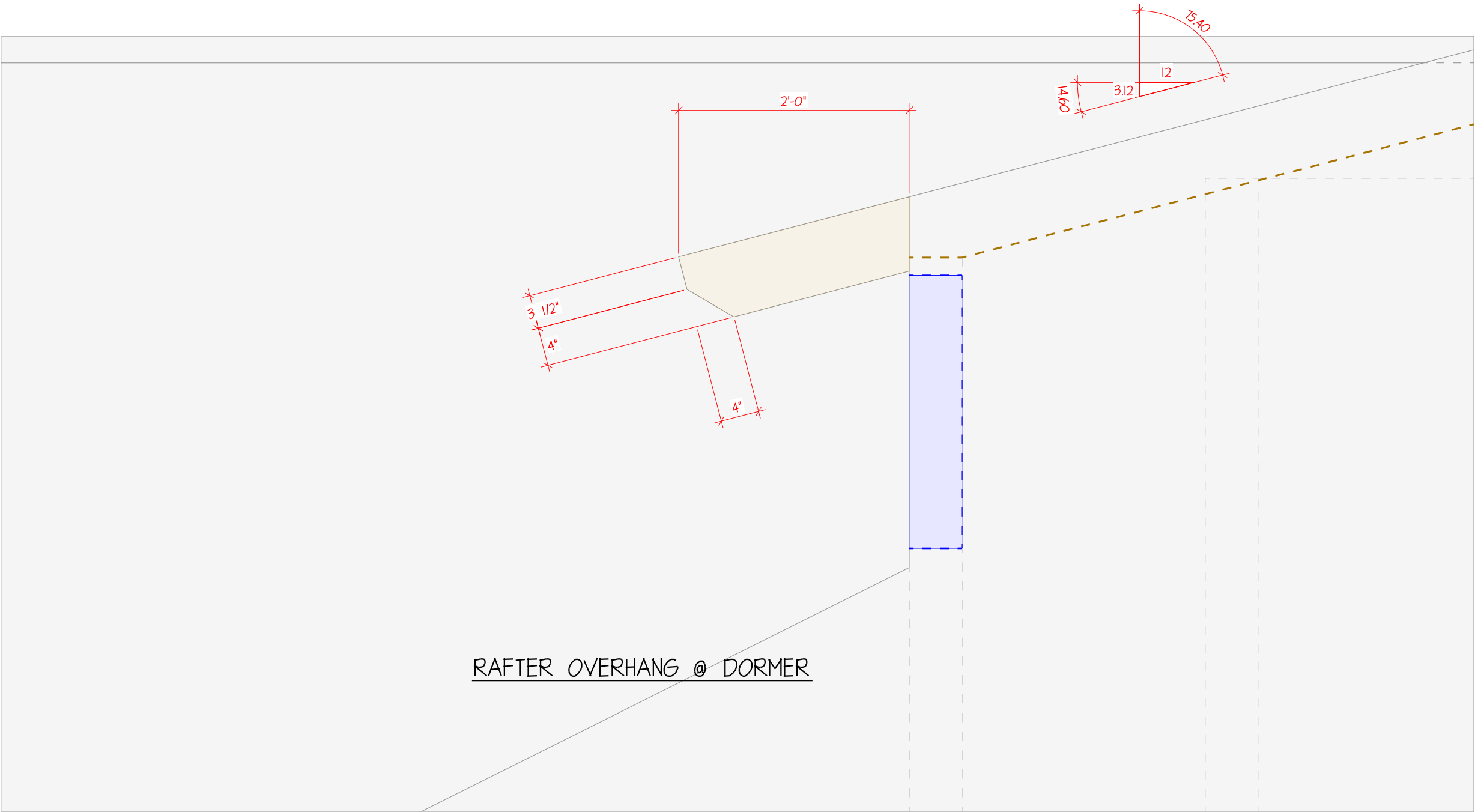


**(B) PORTE COCHERE TRUSS CONNECTION DETAIL**  
REF. TF8 SCALE: 1/2"=1'-0"

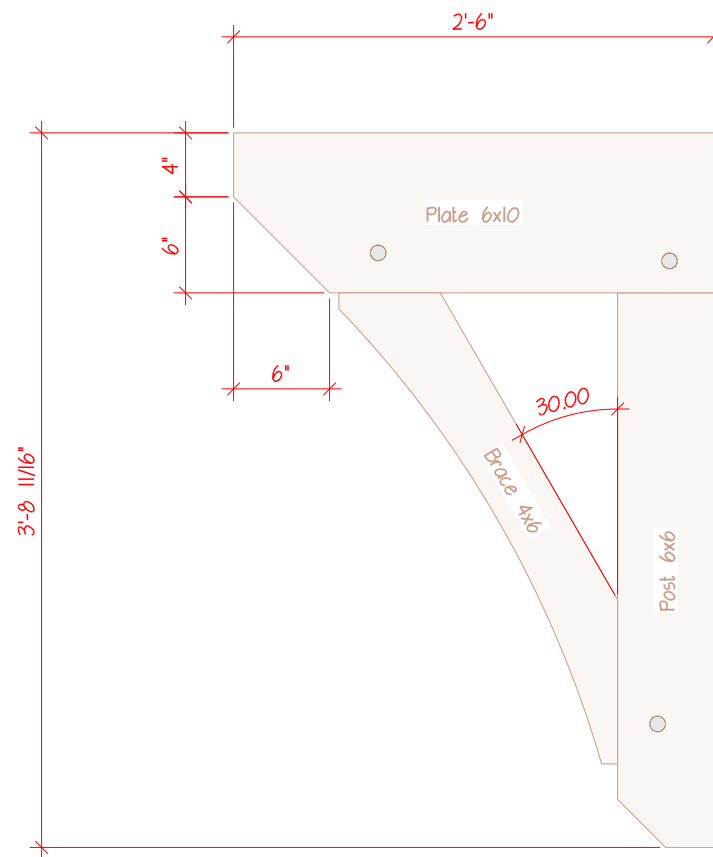


**(C) RIDGE & SPLINE TENON CONNECTION DETAIL**  
REF. TF9 SCALE: 1/2"=1'-0"

"	" RESIDENCE	ARCHITECT: CLIENT: DRAWN BY:	DATE: 07-01-19 SHEET TF 29 OF 32		
DETAIL VIEWS	SCALE: 1/2" = 1'-0"				

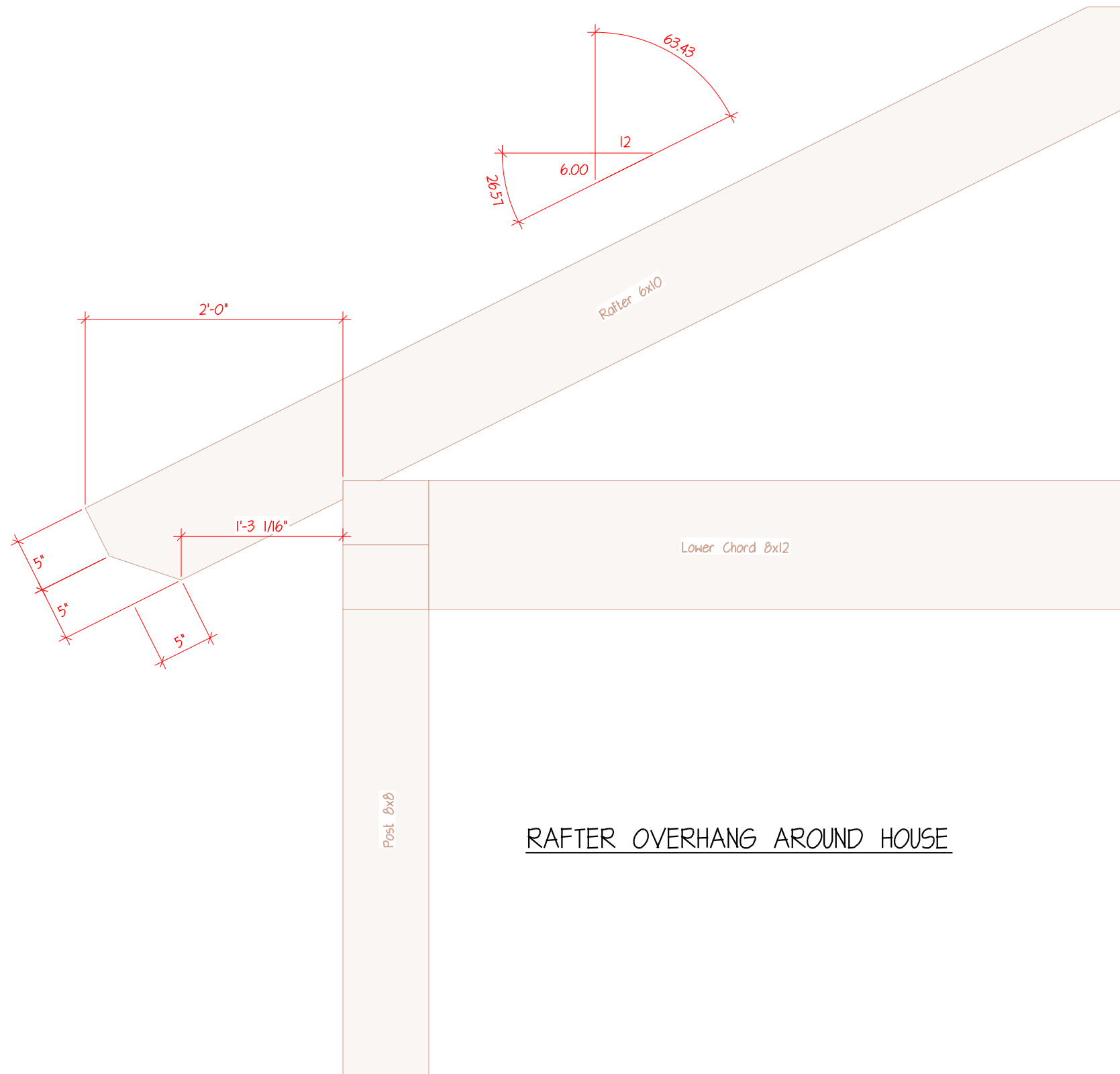


" " RESIDENCE		ARCHITECT: CLIENT: DRAWN BY:	DATE: 07-01-19  SHEET TF 30 OF 32		
DETAIL VIEWS	SCALE: 1" = 1'-0"				



BRACKET OVERHANG AROUND HOUSE

"	" RESIDENCE	ARCHITECT: CLIENT: DRAWN BY:	DATE: 07-01-19  SHEET TF 31 OF 32		
DETAIL VIEWS	SCALE: 1" = 1'-0"				



RAFTER OVERHANG AROUND HOUSE

" " RESIDENCE		ARCHITECT: CLIENT: DRAWN BY:	DATE: 07-01-19  SHEET TF 32 OF 32		
DETAIL VIEWS	SCALE: 1" = 1'-0"				