

SHEET LIST - CONSTRUCTION

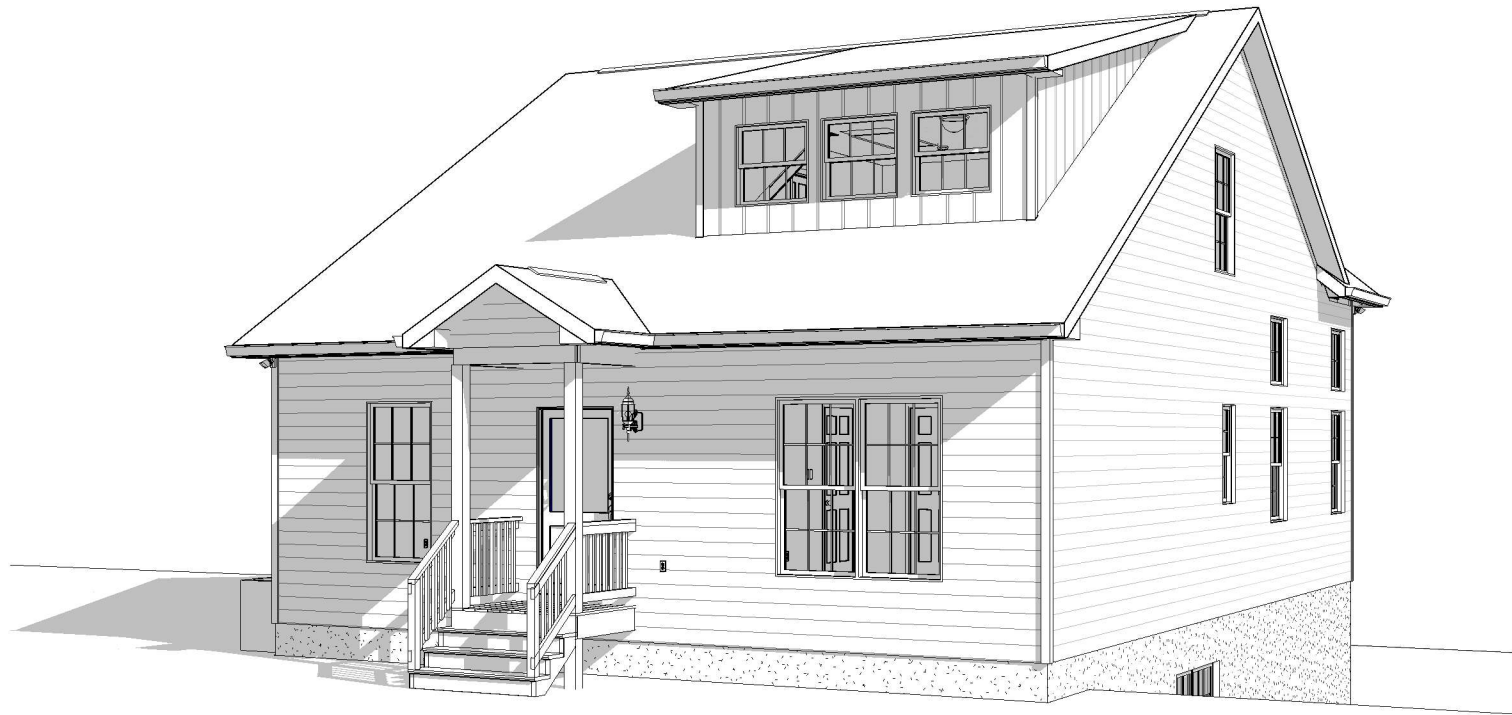
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ABBREVIATIONS LEGEND-

5 SH.-	FIVE SHELVES
6 SH.-	SIX SHELVES
A.F.F.-	ABOVE FINISHED FLOOR
B.C.-	BLIND CORNER (CABINET)
C.J.-	CEILING JOIST
C.M.U.-	CONCRETE MASONRY UNIT
C.O.-	CASED OPENING
CONC.-	CONCRETE
C.R.V.-	CONTINUOUS RIDGE VENT
DBL SH-RD-	DOUBLE SHELF AND ROD
DH-	DOUBLE HUNG
DR. or DRWR-	DRAWER
D.S.-	DRAWER SPACE
EXT.-	EXTERIOR
F.J.-	FLOOR JOIST
FS-	SUPPLY IN FLOOR (HVAC)
FTG.-	FOOTING
GYP. BD.-	GYPSUM BOARD
HB-	HOSE BIBB
HDG.-	HOT DIPPED GALVANIZED
HDWD-	HARDWOOD
HDR.-	HEADER
HT.-	HEIGHT
INT.-	INTERIOR
K.S.-	KNEE SPACE
KDAT-	KILN DRIED AFTER TREATMENT
L.B.W.-	LOAD BEARING WALL
L.S.-	LAUNDRY SINK or LAZY SUSAN
LVP-	LUXURY VINYL PLANK
LVT-	LUXURY VINYL TILE
O.C.-	ON CENTER
O.H.-	OVERHEAD
OPT.-	OPTIONAL
O.W.H.-	OVER THE WALL HEIGHT
P.T.-	PRESSURE TREATED
PANT.-	PANTRY
R/A-	RETURN AIR (HVAC)
REINF.-	REINFORCED
R.O.-	ROUGH OPENING
SC-	SUPPLY IN CEILING (HVAC)
SD-	SMOKE DETECTOR
SH-	SINGLE HUNG
SH-RD-	SHELF AND ROD
S.J.-	SINGLE JOIST
SM/CO-	SMOKE AND CARBON MONOXIDE DETECTOR
SPEC.-	SPECIFIED
SPF-	SPRUCE/PINE/FIR
S.R.O.-	SHEETROCK OPENING
SYP-	SOUTHERN YELLOW PINE
T & G-	TONGUE AND GROOVE
TEMP.-	TEMPERED
T.O.P.-	TOP OF PLATE
TRAP.-	TRAPEZOID (WINDOW)
U.N.O.-	UNLESS NOTED OTHERWISE
UTIL-	UTILITY
VAN.-	VANITY
W/H-	WATER HEATER
W.H.H.-	WINDOW HEADER HEIGHT
W.I.C.-	WALK IN CLOSET



FRONT VIEW



REAR VIEW

GENERAL NOTES

- MIN 9'-1 1/8" CEILING HEIGHT ON FIRST FLOOR - MIN 8'-1 1/8" CEILING HEIGHT ON SECOND FLOOR
- ALL LOAD BEARING WALLS & EXT. OPENINGS TO HAVE (2) 2X10 HEADERS U.N.O. **TO BE SUPPORTED WITH MIN. (1) JACK STUD & (1) KING STUD EACH END U.N.O.**
- STANDARD FIRST FLOOR WINDOW HEADERS SHALL BE FRAMED DOWN 2'-2" FROM T.O.P., U.N.O.
- WINDOW HEADERS FOR WINDOWS LOCATED ABOVE KITCHEN SINK SHALL BE FRAMED DOWN 1'-5" FROM T.O.P., U.N.O.
- STANDARD SECOND FLOOR WINDOW HEADERS SHALL BE FRAMED DOWN 1'-2" FROM T.O.P., U.N.O.
- 7/16" O.S.B. AND HOUSEWRAP REQUIRED
- DIMENSIONS ARE TO SHEATHING EXTERIOR; SUBTRACT 1/2" FROM DIMENSIONS FOR EXTERIOR WINDOW AND DOOR FRAMING LOCATION IF OPENINGS ARE FRAMED BEFORE SHEATHING INSTALLATION
- ALL INTERIOR DOORS ARE EITHER CENTERED ON WALLS OR R.O. STARTED MIN OF 4" FROM ADJOINING WALL UNLESS OTHERWISE DIMENSIONED
- NUMBER OF STAIR TREADS & RISERS MAY VARY AS A RESULT OF LOCAL BUILDING CODES, STANDARDS AND FINAL GRADE
- CLOSET SHELVES TO BE 12" DEEP U.N.O. AND HEIGHT OFF FLOOR TO BE:
 - A. SINGLE 68"
 - B. DOUBLE 42" & 84"
- ALL PLUMBING FIXTURES SHOWN ARE A REPRESENTATION OF SIZE AND LOCATION ONLY. ACTUAL STYLE AND BRAND OF FIXTURES MAY VARY PER OFFICE LOCATION
- ALL TUBS/SHOWERS ARE TO HAVE NAILERS AT FLANGE
- INSTALL A 24" WIDE WALKWAY FROM ATTIC ACCESS TO FURNACE PLATFORM
- PORCH, STOOP, & DECK HANDRAILS NOT INCLUDED W/ SLAB FOUNDATION
- RAILINGS ARE A FORCED OPTION WHEN PORCH IS OVER 30" HIGH FROM FINISHED GRADE

NOTICE TO CONTRACTOR:
All construction must comply with current NC Building Codes and is subject to field inspection and verification.

APPROVED
Limited building only review.
Permit holder responsible for full compliance with the code.

03/31/2022

See notes on footing, foundation, and basement

OPT. PAPER SIZE: for 1/4" = 1'-0" on 24"x36" PAPER SIZE ENLARGE PRINTS TO 200%

FINAL CONSTRUCTION PLANS

Revision Schedule	Revision Number	Revision Description	Revision Date

AREAS:			
FIRST FLOOR HEATED	1,395 SF		
SECOND FLOOR HEATED	380 SF		
UNFINISHED BASEMENT	1,775 SF		
ATTIC AREA	1,395 SF		
SIDE PORCH	235 SF		
REAR PORCH	162 SF		
TOTAL UNDER ROOF	20 SF		
	1,812 SF		
	3,587 SF		

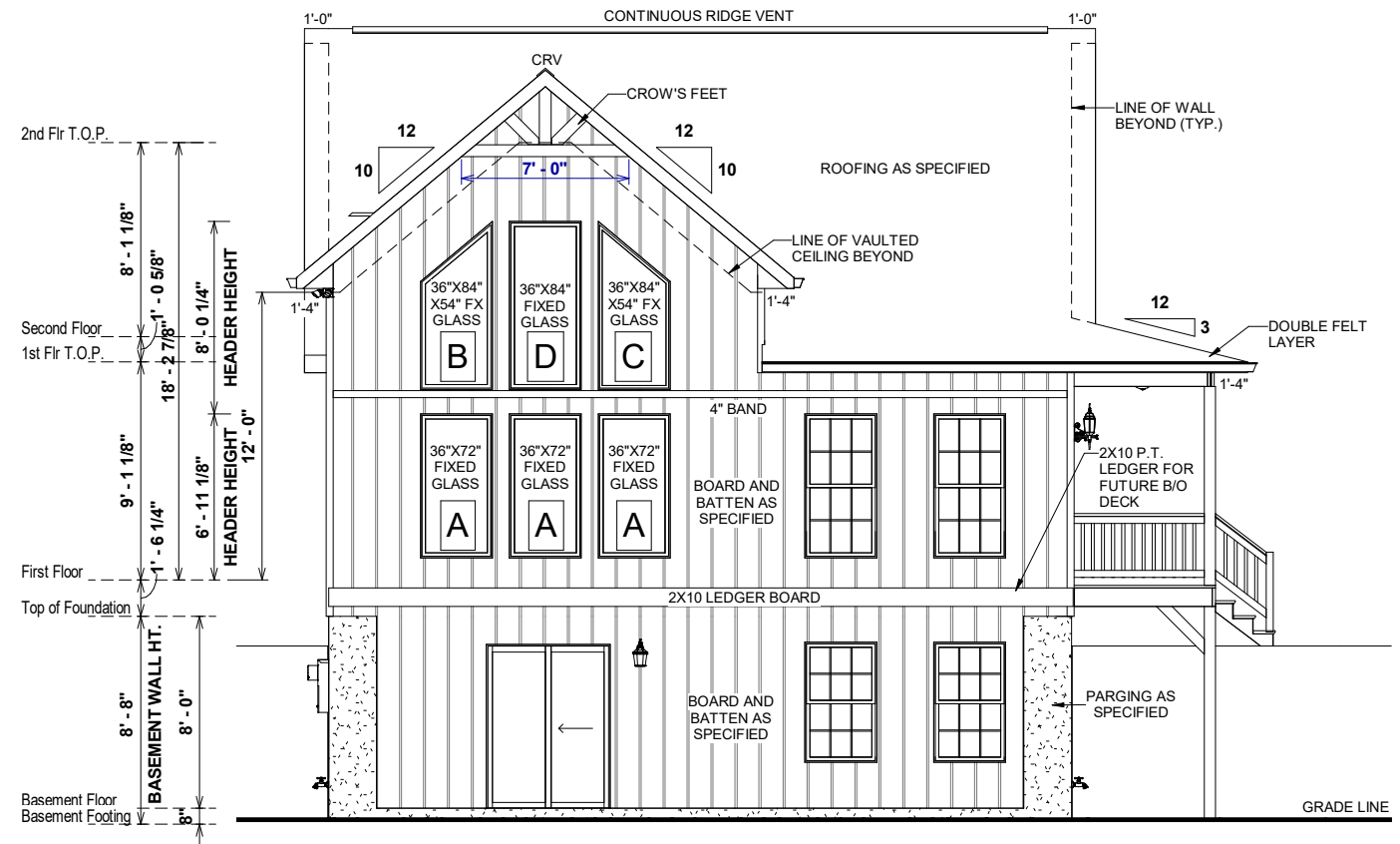
THE:	NOTTELY MODERN FARMHOUSE
FOR:	WOLVINGTON, JASON & KAELA
	11 PINEWOOD ROAD SANFORD NC 27332 CUMBERLAND- NC
OFFICE:	FAYETTEVILLE
	SOLD BY: F. EJAZ

JOB#	141-21-025
	2x4 EXTERIOR WALLS
FOUNDATION TYPE:	BASEMENT

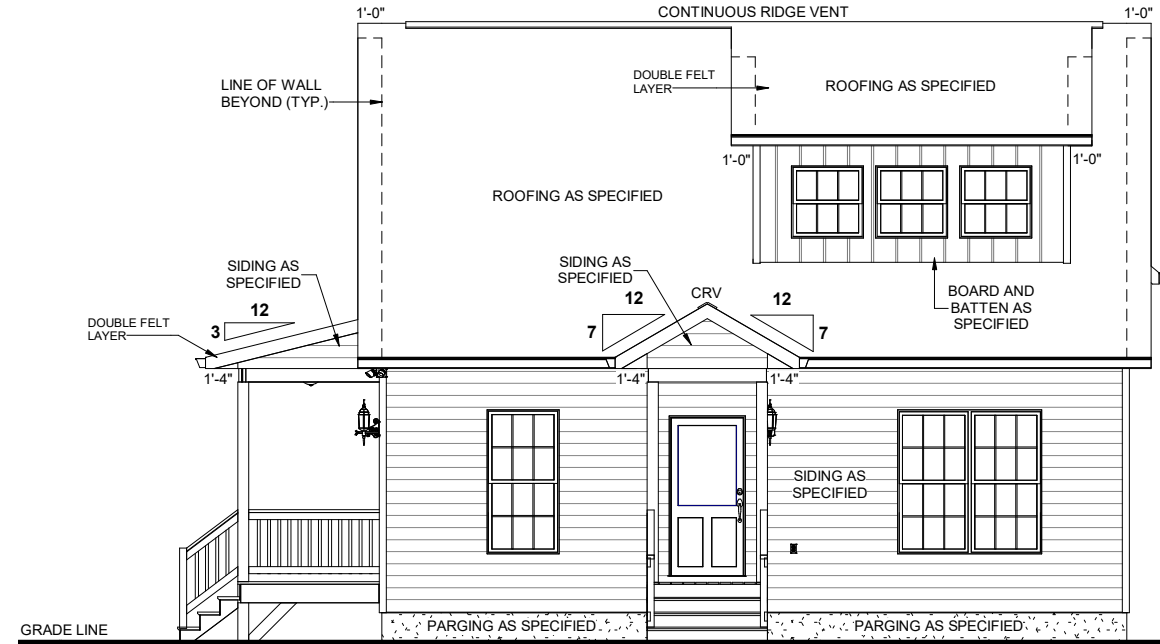
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	JS
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SHEET NUMBER:	E-0
	COVER SHEET



2 FRONT ELEVATION
1/8" = 1'-0"



1 REAR ELEVATION
1/8" = 1'-0"

ELEVATION NOTES

1. MIN 9'-1 1/8" CEILING HEIGHT ON FIRST FLOOR
 2. 7/16" O.S.B AND HOUSEWRAP REQUIRED
 3. ROOF OVERHANGS, AS NOTED, ARE FROM WALL SHEATHING TO OUTSIDE OF FASCIA
 4. FINAL GRADE TO BE DETERMINED ON SITE
- FOUNDATION DRAWN AS REPRESENTATION ONLY

REFER TO SECTIONS FOR
RAFTER FRAMING SEAT CUTS
AND O.W.H. DIMENSIONS

FINAL GRADE TO BE
DETERMINED ON SITE

OPT. PAPER SIZE: for 1/4" = 1'-0" on 24"x36" PAPER SIZE ENLARGE PRINTS TO 200%

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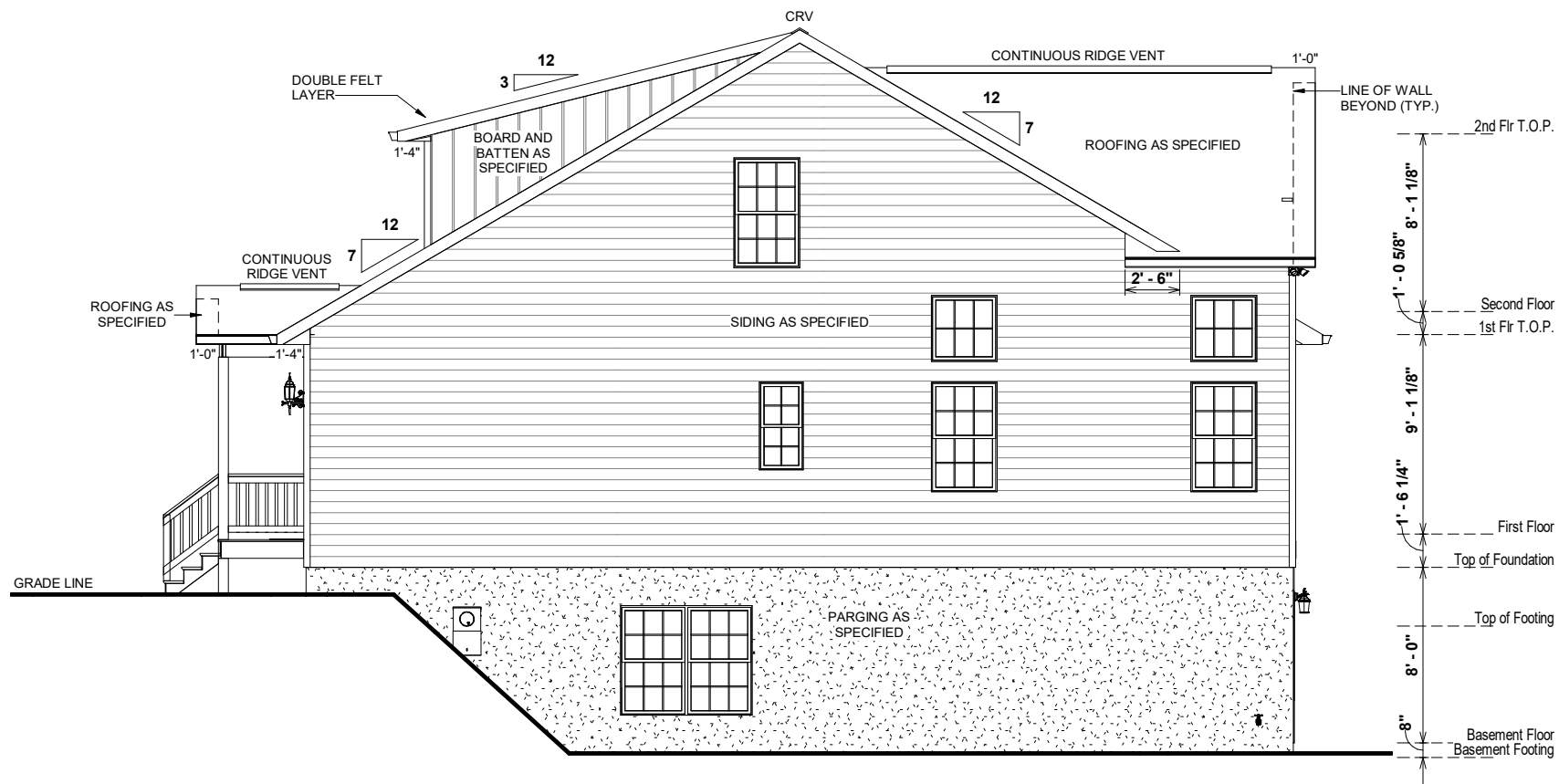
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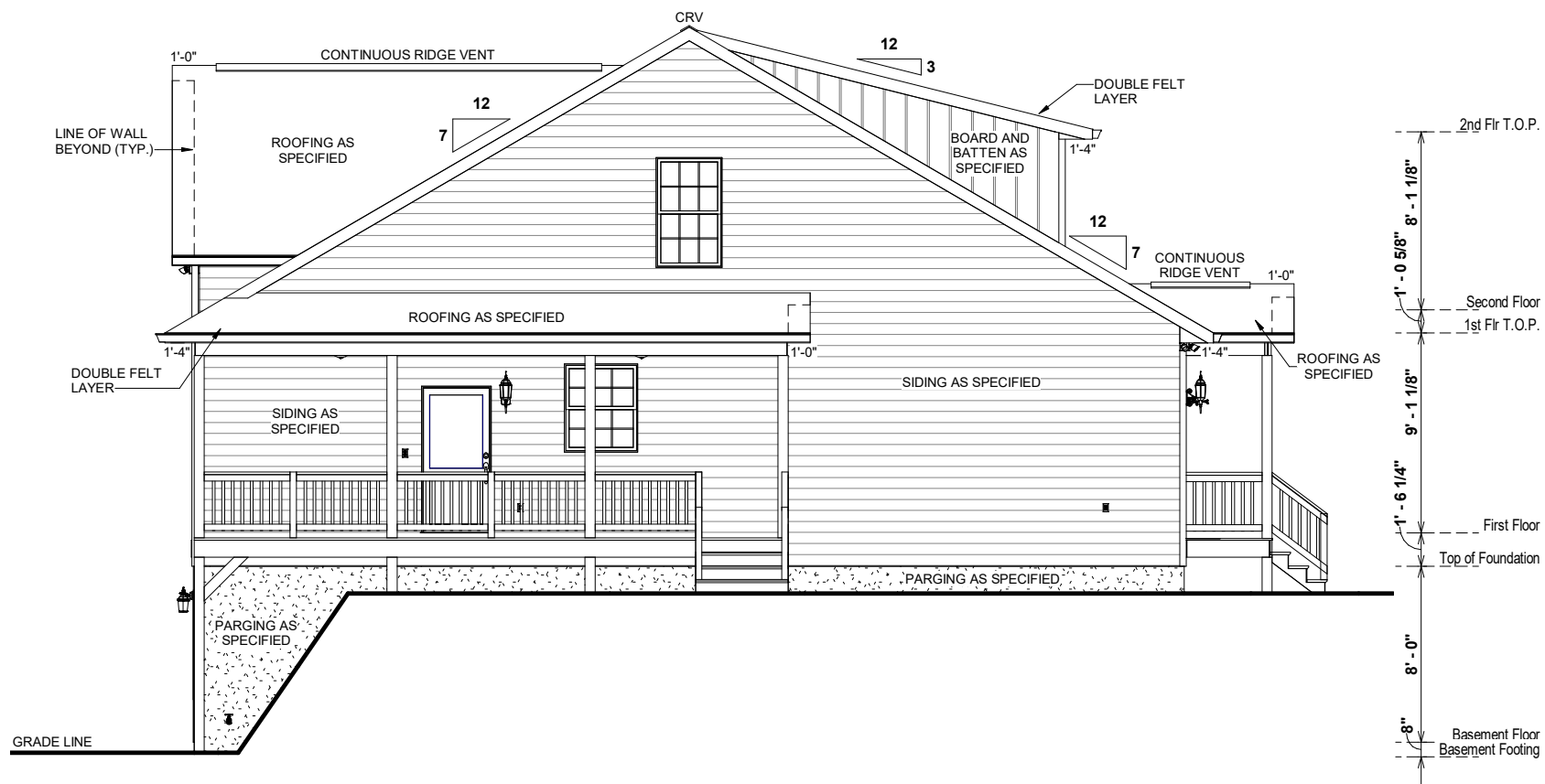
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FRONT & REAR ELEVATIONS	

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SHEET NUMBER:	E-1
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1 LEFT ELEVATION
1/8" = 1'-0"



2 RIGHT ELEVATION
1/8" = 1'-0"

ELEVATION NOTES

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FINAL CONSTRUCTION PLANS

Revision Number	Revision Description	Revision Date

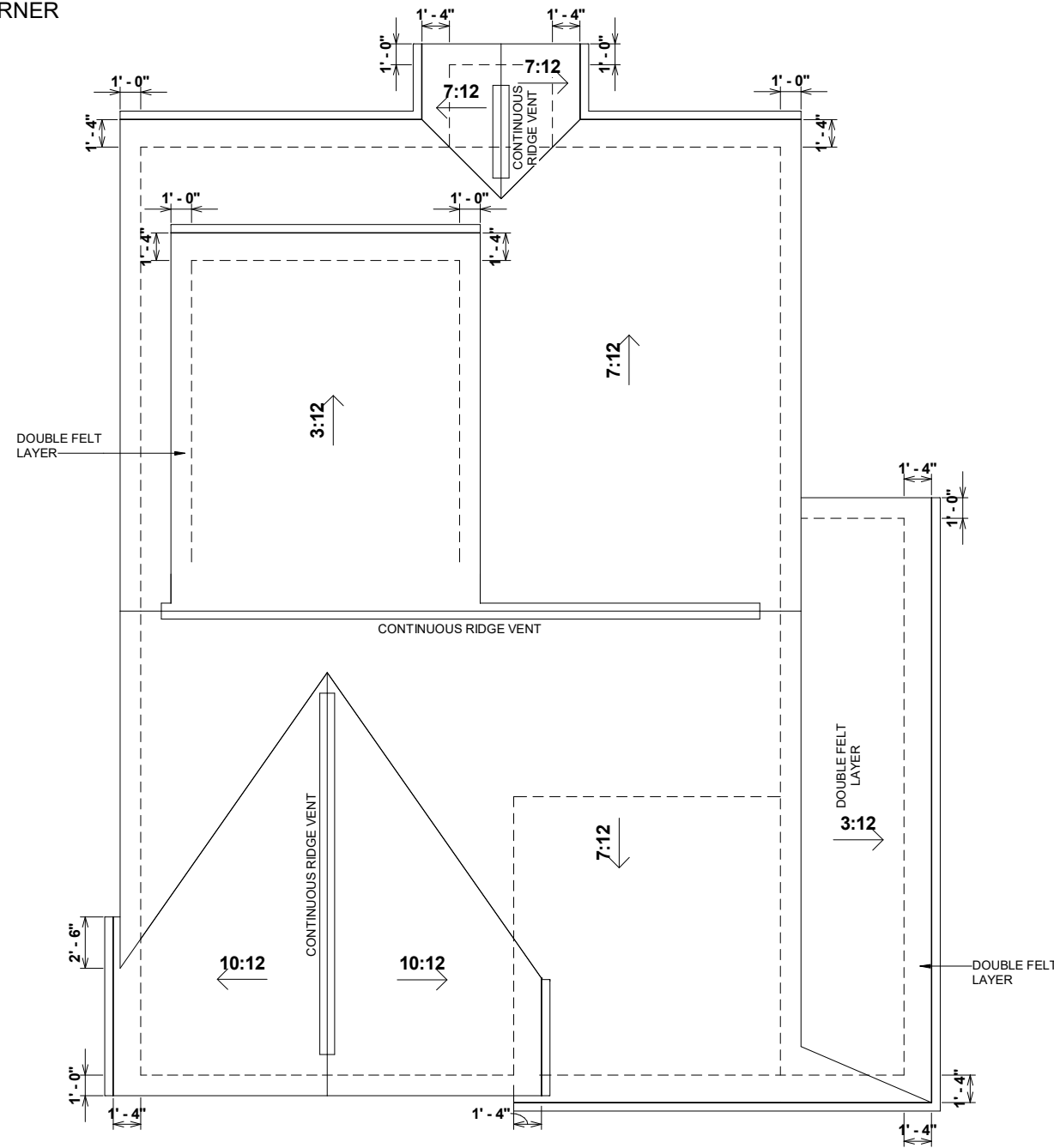
AREAS:	FIRST FLOOR HEATED	SECOND FLOOR HEATED	UNFINISHED BASEMENT	ATTIC AREA	SIDE PORCH	REAR PORCH	TOTAL UNDER ROOF
	1,395 SF	380 SF	1,775 SF	1,395 SF	235 SF	162 SF	20 SF
							1,812 SF
							3,587 SF

THE: **NOTTELY MODERN FARMHOUSE**
FOR: **WOLVINGTON, JASON & KAELA**
11 PINEWOOD ROAD SANFORD NC 27332 CUMBERLAND- NC
OFFICE: FAYETTEVILLE
SOLD BY: F. EJAZ

JOB#: **141-21-025**
2x4 EXTERIOR WALLS
FOUNDATION TYPE: **BASEMENT**
DRAWN BY: **S. RODRIGUEZ**
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SHEET NUMBER: **E-2**
LEFT & RIGHT ELEVATIONS

LAYOUT
CORNER



1 ROOF OVERVIEW
1/8" = 1'-0"

REFER TO SECTIONS FOR
RAFTER FRAMING SEAT CUTS
AND O.W.H. DIMENSIONS

Revision Schedule	
Revision Number	Revision Description

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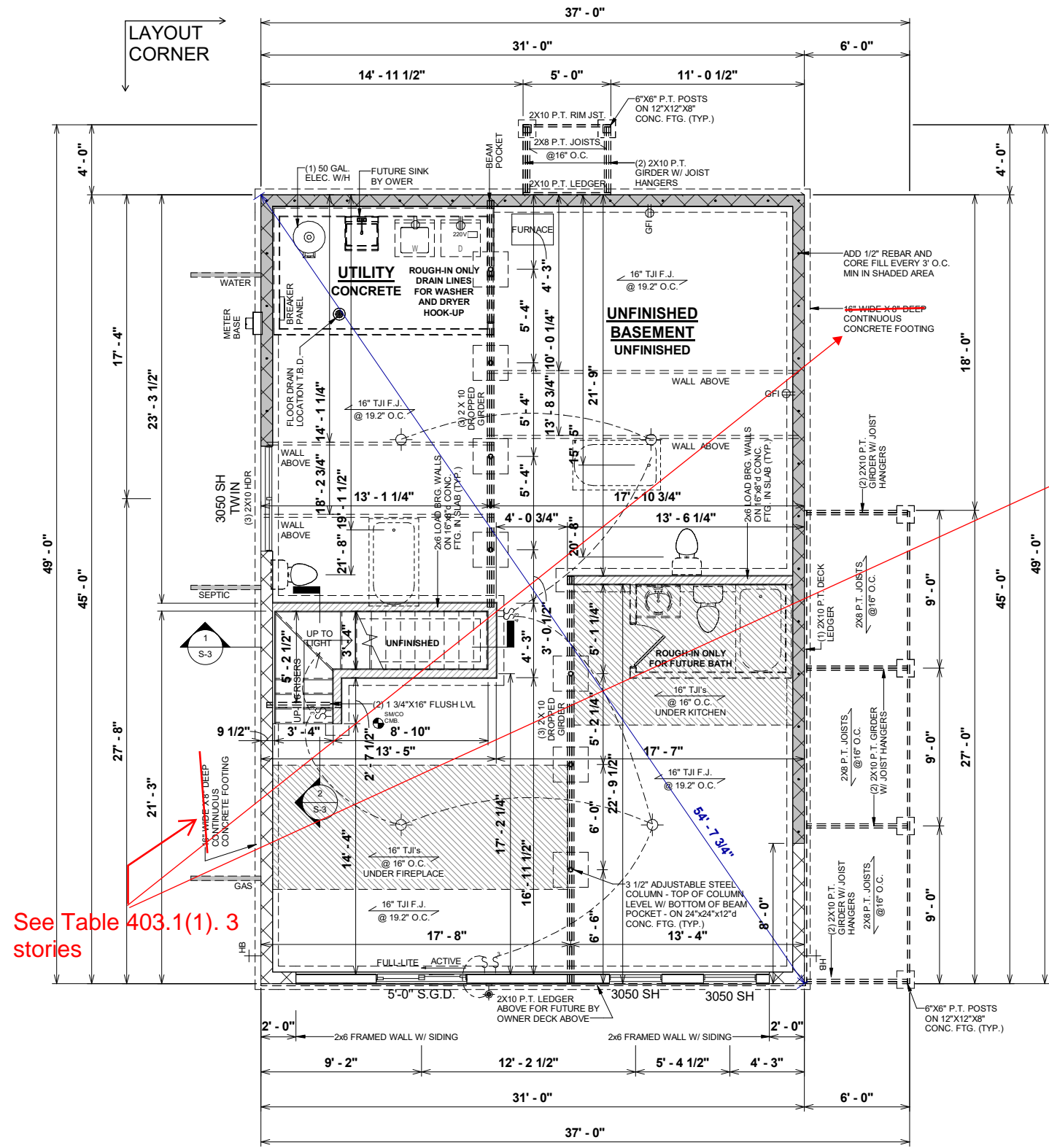
JOB# **141-21-025**
2x4 EXTERIOR WALLS
 FOUNDATION TYPE: **BASEMENT**

DRAWN BY: **S. RODRIGUEZ/ A. ALIAGA**
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SHEET NUMBER: **E-3**
ROOF OVERVIEW

OPT. PAPER SIZE: for 1/4" = 1'-0" on 24"x36" PAPER SIZE ENLARGE PRINTS TO 200%
FINAL CONSTRUCTION PLANS



See Table 403.1(1). 3 stories

BASEMENT FOUNDATION NOTES

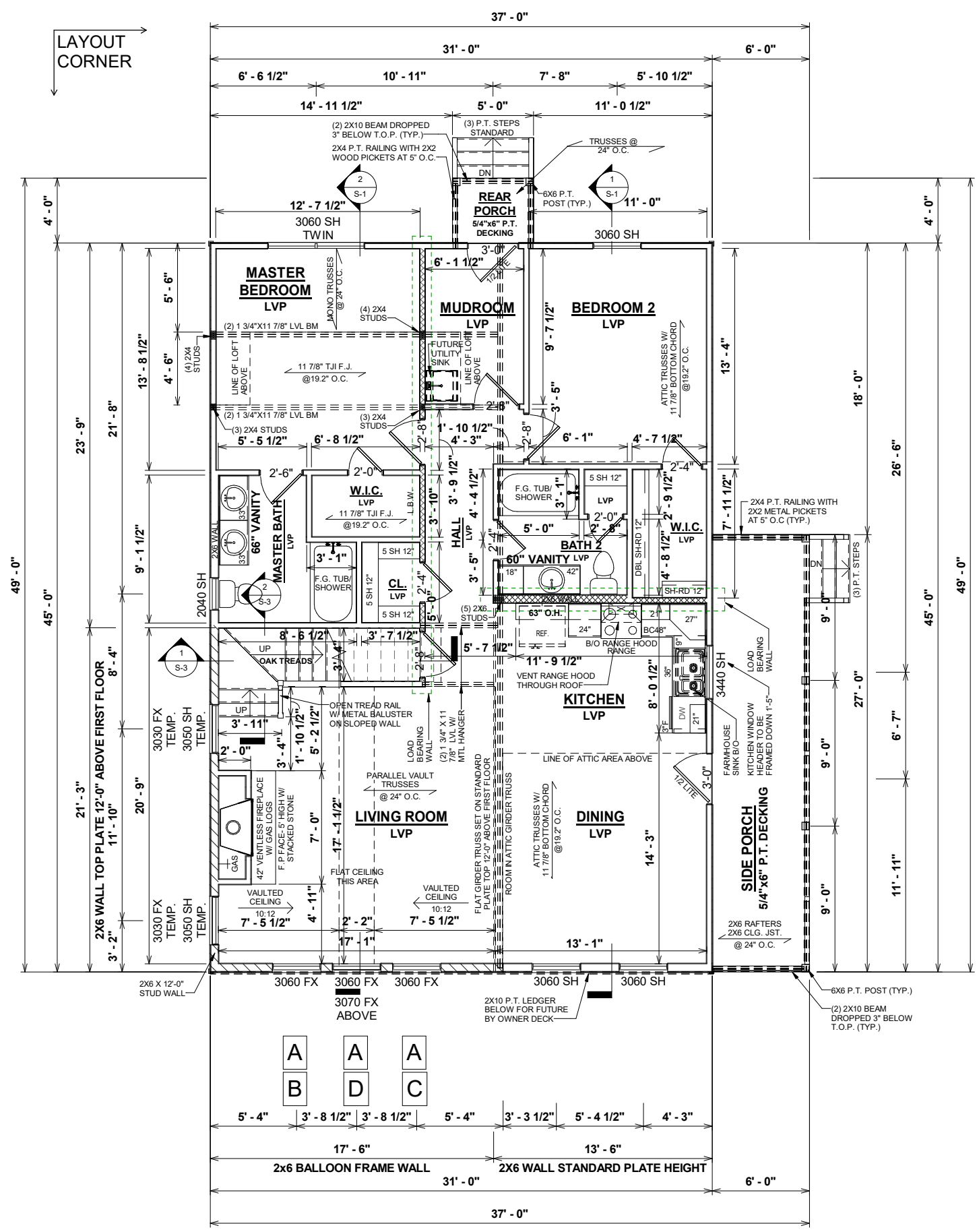
1. TYPICAL FOUNDATION WALL: STANDARD 13 COURSES 8" CMU ON 16" WIDE X 0" DEEP CONTINUOUS CONCRETE FOOTING
2. ALL GIRDER BREAKS MUST BE ON PIERS OR POSTS
3. NOTCH SILL PLATES AROUND DROPPED BEAM
4. FILL ALL CELLS SOLID UNDER BEAM POCKET BEARING POINT
5. GRAVEL REQ'D UNDER BASEMENT SLAB
6. POLY REQ'D UNDER BASEMENT SLAB
7. GRAVEL REQ'D UNDER GARAGE SLAB
8. POLY REQ'D UNDER GARAGE SLAB
9. ADD 1x6 WITH ALUMINUM WRAP AROUND ALL EXTERIOR DOORS AND WINDOWS
10. BASEMENTS INCLUDE WATERPROOFING TO GRADE

1 BASEMENT FLOOR PLAN
1/8" = 1'-0"

OPT. PAPER SIZE: for 1/4" = 1'-0" on 24"x36" PAPER SIZE ENLARGE PRINTS TO 200%

FINAL CONSTRUCTION PLANS

SHEET NUMBER:	PROPERTY OF:	DRAWN BY:	JOB#	THE:		REVISION SCHEDULE		
				141-21-025	2x4 EXTERIOR WALLS	Revision Number	Revision Description	Revision Date
F-1	 © COPYRIGHT - 2021 AMERICA'S HOME PLACE FAYETTEVILLE	S. RODRIGUEZ A. ALIAGA US	141-21-025	1	NOTTELY MODERN FARMHOUSE	1,395 SF		
				2	FOR: WOLVINGTON, JASON & KAELA	380 SF		
				3	11 PINWOOD ROAD SANFORD NC 27332 CUMBERLAND-NC	1,775 SF		
				4	FOUNDATION TYPE: BASEMENT	235 SF		
				5	OFFICE: FAYETTEVILLE	162 SF		
				6	TOTAL UNDER ROOF	1,812 SF		
				7		3,587 SF		



1 FIRST FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES

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- ALL LOAD BEARING WALLS & EXT. OPENINGS TO HAVE (2) 2X10 HEADERS U.N.O. TO BE SUPPORTED WITH MIN. (1) JACK STUD & (1) KING STUD EACH END U.N.O.
- STANDARD FIRST FLOOR WINDOW HEADERS SHALL BE FRAMED DOWN 2'-2" FROM T.O.P., U.N.O.
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SPECIAL NOTES

- OVAL GLASS FRONT DOOR
- VENT RANGE HOOD TO EXTERIOR
- BATHROOM & KITCHEN PLUMBING FIXTURES BY OWNER
- 1 HOLE IN MARBLE COUNTERTOPS IN BATHROOMS FOR MOEN FAUCET

OPT. PAPER SIZE: for 1/4" = 1'-0" on 24"x36" PAPER SIZE ENLARGE PRINTS TO 200%

FINAL CONSTRUCTION PLANS

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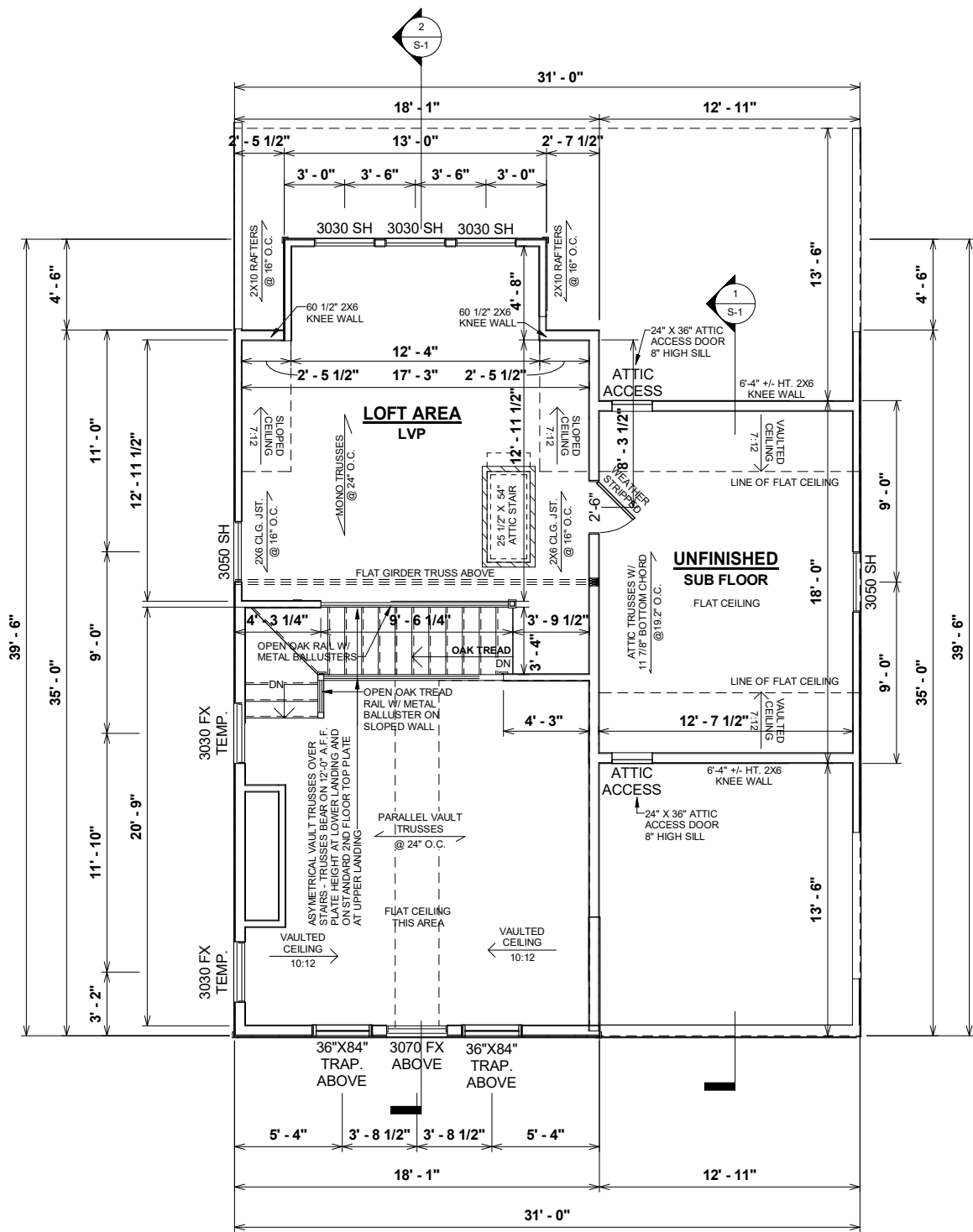
AREAS:		1,395 SF	380 SF	1,775 SF	1,395 SF	235 SF	162 SF	20 SF	1,812 SF	3,587 SF
FIRST FLOOR HEATED	SECOND FLOOR HEATED	UNFINISHED BASEMENT	ATTIC AREA	SIDE PORCH	REAR PORCH	TOTAL UNDER ROOF				

THE:	NOTTELY MODERN FARMHOUSE
FOR:	WOLVINGTON, JASON & KAELA
11 PINWOOD ROAD SANFORD NC 27332 CUMBERLAND- NC	
OFFICE:	FAYETTEVILLE
SOLD BY:	F. EJAZ

JOB#	141-21-025
FOUNDATION TYPE:	BASEMENT
2X4 EXTERIOR WALLS	

DRAWN BY:	S. RODRIGUEZ
CHECKED BY:	A. ALIAGA
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FIRST FLOOR PLAN	



1 SECOND FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES

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FINAL CONSTRUCTION PLANS

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1,775 SF	1,395 SF	
235 SF	162 SF	
20 SF	1,812 SF	
	3,587 SF	

AREAS:	FIRST FLOOR HEATED	SECOND FLOOR HEATED	UNFINISHED BASEMENT	ATTIC AREA	SIDE PORCH	REAR PORCH	TOTAL UNDER ROOF
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FOR:	WOLVINGTON, JASON & KAELA
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OFFICE:	FAYETTEVILLE
SOLD BY:	F. EJAZ

JOB#	141-21-025
FOUNDATION TYPE:	BASEMENT
2x4 EXTERIOR WALLS	

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SHEET NUMBER:	F-3
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PAPER SIZE:	11" x 17"
SCALE:	1/8" = 1'-0"

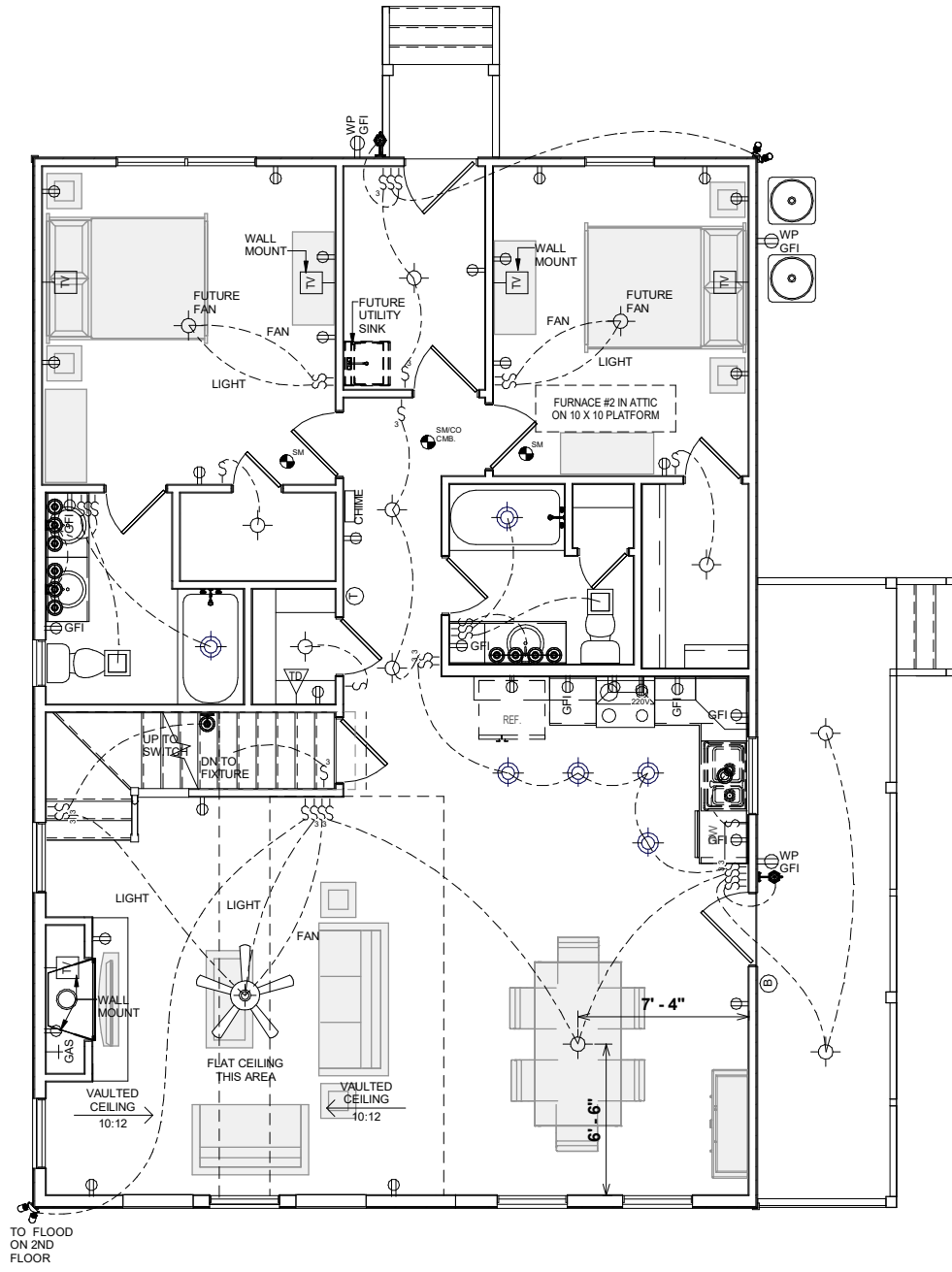
ELECTRICAL LEGEND	
LIGHTING FIXTURES	
Ceiling Fan	
Ceiling Fan w/ Light	
Ceiling Mounted Light	
Recessed Ceiling Light	
Pendent Ceiling Light	
Fluorescent Ceiling Light	
Ceiling Exhaust Fan/Light Combo	
Ceiling Exhaust Fan/Light Combo	
Emergency Exit Light	
Junction Box for Future Fixture	
Fluorescent Wall Mounted Light	
Wall Mounted Vanity 3 Light	
Wall Mounted Vanity 4 Light	
Wall Mounted Interior Sconce Light	
Wall Mounted Exterior Coach Light	
Exterior Flood Light	
ELECTRICAL FIXTURES	
Duplex Outlet	
Duplex Outlet - GFI	
Duplex Outlet - Water Proof GFI	
Duplex Outlet - 220v	
Duplex Outlet - Ceiling Mounted	
Duplex Outlet - Floor Mounted	
4-plex Outlet	
4-plex Outlet - Floor Mounted	
Outlet, Light and Switch (AtticCrawl)	
2-Way Switch	
3-Way Switch	
4-Way Switch	
Dimmer Switch	
Rocker Switch	
Smoke Detector	
Smoke Detector/Carbon Monoxide	
Thermostat	
Door Bell	
Door Bell Chime	
Telephone Jack	
Television / Cable Jack	
Telephone / Data Jack	

ELECTRICAL NOTES:

- BRANCH CIRCUITS THAT SUPPLY 125V, SINGLE PHASE, 15 & 20 AMP RECEPTACLE OUTLETS IN BEDROOMS SHALL BE PROTECTED BY ARC-FAULT CIRCUIT INTERRUPTER. NC ART. 210-12(b) 2017 NEC
- CONFORM ELECTRICAL WIRING & COMPONENTS TO CURRENT NEC PROVISIONS OF 1 & 2 FAMILY DWELLINGS AS REQUIRED BY CODE
- OUTLET LOCATIONS ARE REPRESENTATION ONLY
- ACTUAL OUTLET LOCATIONS MAY VARY PER LOCAL CODE

HVAC NOTES:

- FURN. NOT LOCATED ON HEATED AREA TO BE AS CENTRALLY LOCATED AS POSSIBLE. IN ACCORDANCE WITH ALL APPLICABLE CODES
- BUILDER & HVAC CONTRACTOR RESERVE THE RIGHT TO LOCATE SUPPLY VENTS OR LINES
- RETURN AIR REGISTERS TO BE AS CLOSE TO FURNACE UNIT & CENTRALLY LOCATED AS POSSIBLE
- OUTSIDE COMPRESSOR UNIT TO BE LOCATED AS CLOSE TO INTERIOR AIR HANDLER AS POSSIBLE
- OUTSIDE COMPRESSOR UNIT TO BE LOCATED 10'-0" AWAY MIN. FROM DRYER VENT
- HVAC- THERMOSTAT, RETURN AIR, AND SUPPLIES TO BE DESIGNED & LOCATED BY MECHANICAL CONTRACTOR



1 FIRST FLOOR ELECTRICAL PLAN
1/8" = 1'-0"

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OFFICE:	FAYETTEVILLE
SOLD BY:	F. EJAZ

JOB#	141-21-025
FOUNDATION TYPE:	BASEMENT
2x4 EXTERIOR WALLS	

DRAWN BY:	S. RODRIGUEZ
CHECKED BY:	A. ALIAGA
PRINT DATE:	3/25/2022
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PROPERTY OF:	
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SHEET NUMBER:	H-1
	FIRST FLOOR ELECTRICAL & HVAC PLAN

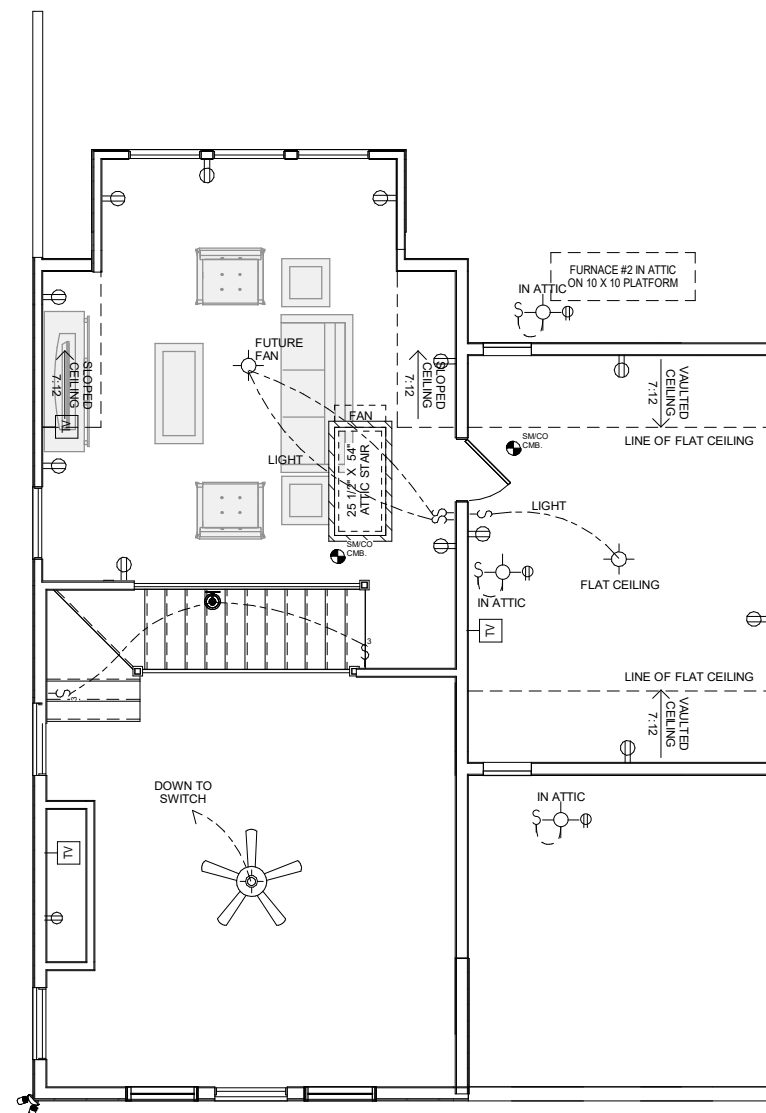
ELECTRICAL LEGEND	
LIGHTING FIXTURES	
Ceiling Fan	
Ceiling Fan w/ Light	
Ceiling Mounted Light	
Recessed Ceiling Light	
Pendent Ceiling Light	
Fluorescent Ceiling Light	
Ceiling Exhaust Fan/Light Combo	
Ceiling Exhaust Fan/Light Combo	
Emergency Exit Light	
Junction Box for Future Fixture	
Fluorescent Wall Mounted Light	
Wall Mounted Vanity 3 Light	
Wall Mounted Vanity 4 Light	
Wall Mounted Interior Sconce Light	
Wall Mounted Exterior Coach Light	
Exterior Flood Light	
ELECTRICAL FIXTURES	
Duplex Outlet	
Duplex Outlet - GFI	
Duplex Outlet - Water Proof GFI	
Duplex Outlet - 220v	
Duplex Outlet - Ceiling Mounted	
Duplex Outlet - Floor Mounted	
4-plex Outlet	
4-plex Outlet - Floor Mounted	
Outlet, Light and Switch (AtticCrawl)	
2-Way Switch	
3-Way Switch	
4-Way Switch	
Dimmer Switch	
Rocker Switch	
Smoke Detector	
Smoke Detector/Carbon Monoxide	
Thermostat	
Door Bell	
Door Bell Chime	
Telephone Jack	
Television / Cable Jack	
Telephone / Data Jack	

ELECTRICAL NOTES:

- BRANCH CIRCUITS THAT SUPPLY 125V, SINGLE PHASE, 15 & 20 AMP RECEPTACLE OUTLETS IN BEDROOMS SHALL BE PROTECTED BY ARC-FAULT CIRCUIT INTERRUPTER. NC ART. 210-12(b) 2017 NEC
- CONFORM ELECTRICAL WIRING & COMPONENTS TO CURRENT NEC PROVISIONS OF 1 & 2 FAMILY DWELLINGS AS REQUIRED BY CODE
- OUTLET LOCATIONS ARE REPRESENTATION ONLY
- ACTUAL OUTLET LOCATIONS MAY VARY PER LOCAL CODE

HVAC NOTES:

- FURN. NOT LOCATED ON HEATED AREA TO BE AS CENTRALLY LOCATED AS POSSIBLE. IN ACCORDANCE WITH ALL APPLICABLE CODES
- BUILDER & HVAC CONTRACTOR RESERVE THE RIGHT TO LOCATE SUPPLY VENTS OR LINES
- RETURN AIR REGISTERS TO BE AS CLOSE TO FURNACE UNIT & CENTRALLY LOCATED AS POSSIBLE
- OUTSIDE COMPRESSOR UNIT TO BE LOCATED AS CLOSE TO INTERIOR AIR HANDLER AS POSSIBLE
- OUTSIDE COMPRESSOR UNIT TO BE LOCATED 10'-0" AWAY MIN. FROM DRYER VENT
- HVAC- THERMOSTAT, RETURN AIR, AND SUPPLIES TO BE DESIGNED & LOCATED BY MECHANICAL CONTRACTOR

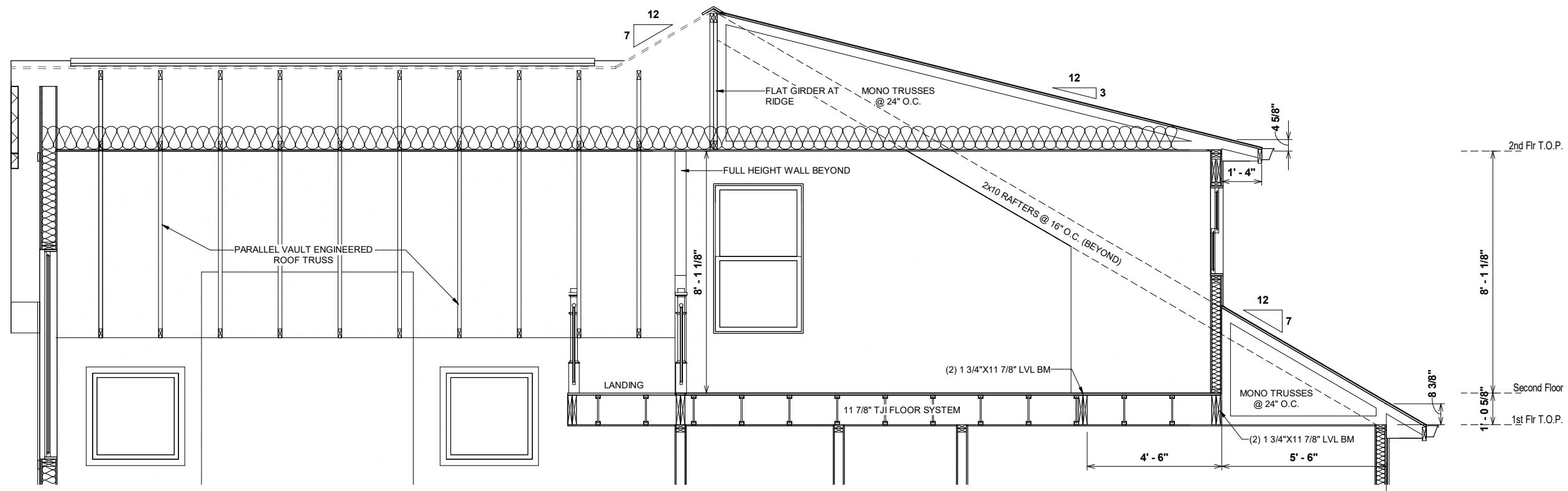


1 SECOND FLOOR ELECTRICAL PLAN
1/8" = 1'-0"

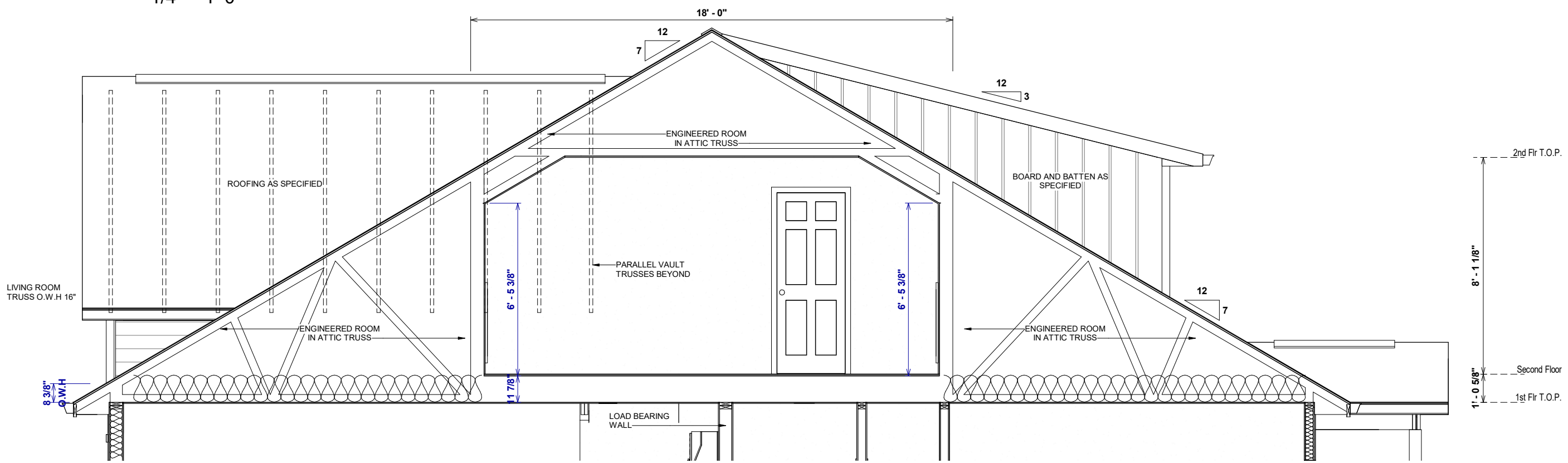
OPT. PAPER SIZE: for 1/4" = 1'-0" on 24"x36" PAPER SIZE ENLARGE PRINTS TO 200%

FINAL CONSTRUCTION PLANS

SHEET NUMBER:	PROPERTY OF:	DRAWN BY:	JOB#	THE:	Revision Schedule		
					Revision Number	Revision Description / Date	
H-2		S. RODRIGUEZ / A. ALIAGA	141-21-025	2x4 EXTERIOR WALLS	NOTTELY MODERN FARMHOUSE	1,395 SF	
						380 SF	
						1,775 SF	
						235 SF	
						162 SF	
FOUNDATION TYPE: BASEMENT 11 PINEWOOD ROAD SANFORD NC 27332 CUMBERLAND- NC OFFICE: FAYETTEVILLE SOLD BY: F. EJAZ					1,395 SF		
					20 SF		
					1,812 SF		
					3,587 SF		



2 SECTION THROUGH LOFT
1/4" = 1'-0"



1 SECTION THROUGH BEDROOM 3
1/4" = 1'-0"

OPT. PAPER SIZE: for 1/4" = 1'-0" on 24"x36" PAPER SIZE ENLARGE PRINTS TO 200%

FINAL CONSTRUCTION PLANS

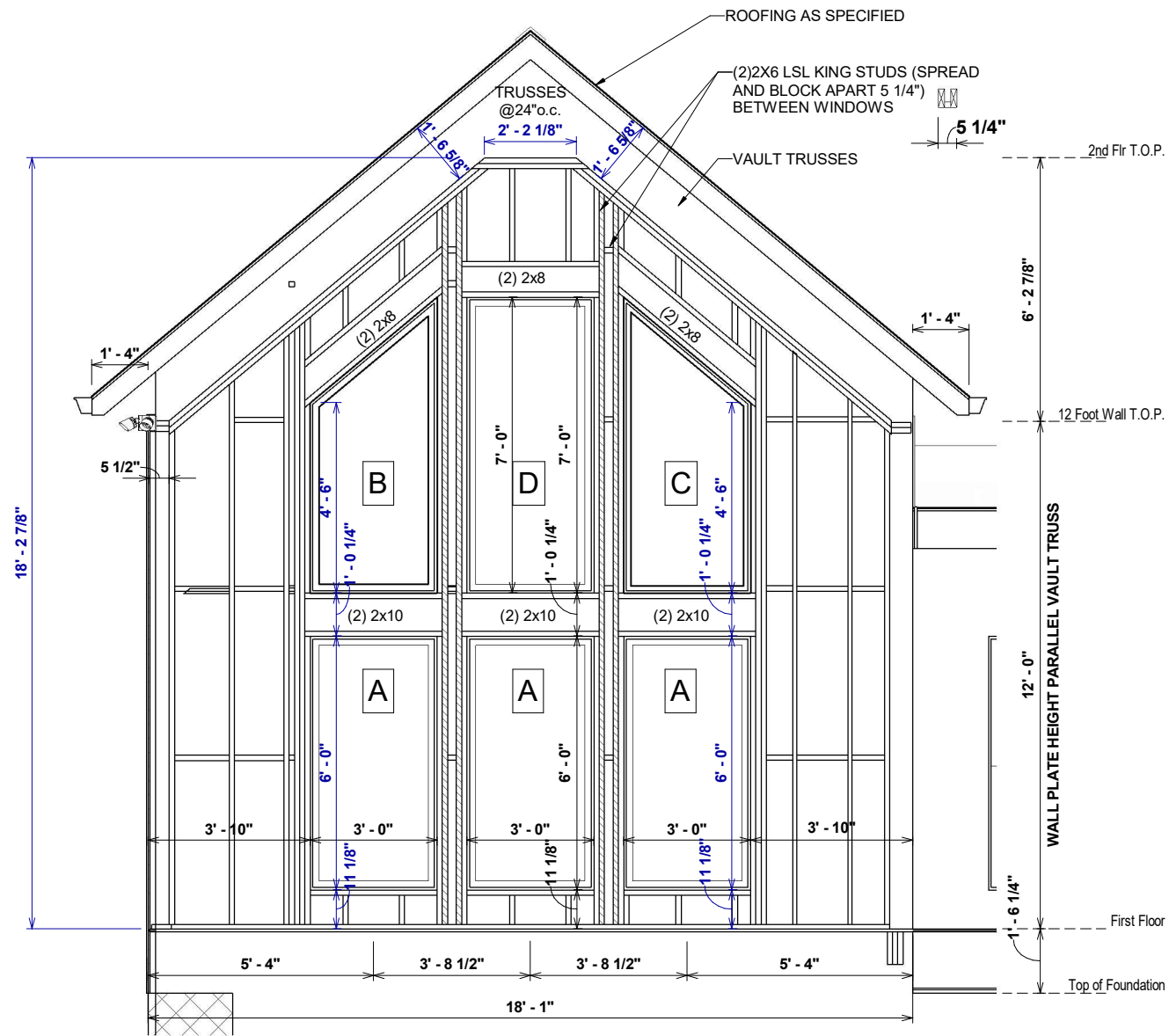
Revision Schedule		AREAS:	
Revision Number	Revision Description	Revision Number	Revision Date
1,395 SF	FIRST FLOOR HEATED	1,395 SF	
380 SF	SECOND FLOOR HEATED	380 SF	
1,775 SF	UNFINISHED BASEMENT	1,775 SF	
235 SF	ATTIC AREA	235 SF	
162 SF	SIDE PORCH	162 SF	
20 SF	REAR PORCH	20 SF	
1,812 SF	TOTAL UNDER ROOF	1,812 SF	
3,587 SF		3,587 SF	

THE:	NOTTELY MODERN FARMHOUSE
FOR:	WOLVINGTON, JASON & KAELA
	11 PINEWOOD ROAD SANFORD NC 27332 CUMBERLAND- NC
OFFICE:	FAYETTEVILLE
SOLD BY:	F. EJAZ

JOB#:	141-21-025
FOUNDATION TYPE:	BASEMENT
2x4 EXTERIOR WALLS	

PROPERTY OF:	
SHEET NUMBER:	S-1
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1 VIEW WALL FRAMING
1/4" = 1'-0"

OPT. PAPER SIZE: for 1/4" = 1'-0" on 24"x36" PAPER SIZE ENLARGE PRINTS TO 200%


FINAL CONSTRUCTION PLANS

Revision Schedule	
Revision Number	Revision Description

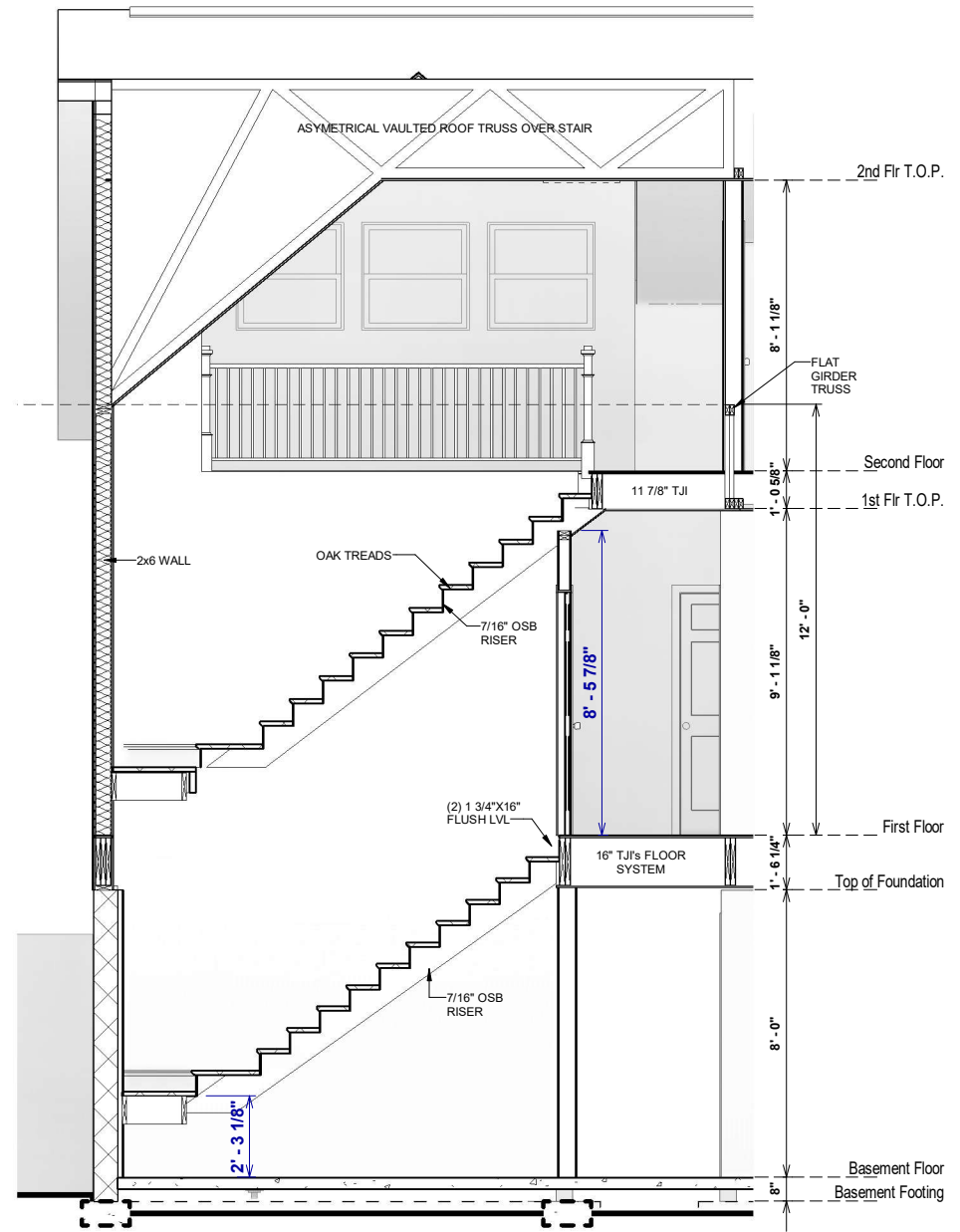
AREAS:	
FIRST FLOOR HEATED	1,395 SF
SECOND FLOOR HEATED	380 SF
UNFINISHED BASEMENT	1,775 SF
ATTIC AREA	1,395 SF
SIDE PORCH	235 SF
REAR PORCH	162 SF
TOTAL UNDER ROOF	20 SF
	1,812 SF
	3,587 SF

THE: **NOTTELY MODERN FARMHOUSE**
 FOR: **WOLVINGTON, JASON & KAELA**
 11 PINEWOOD ROAD SANFORD NC 27332 CUMBERLAND- NC
 OFFICE: FAYETTEVILLE
 SOLD BY: F. EJAZ

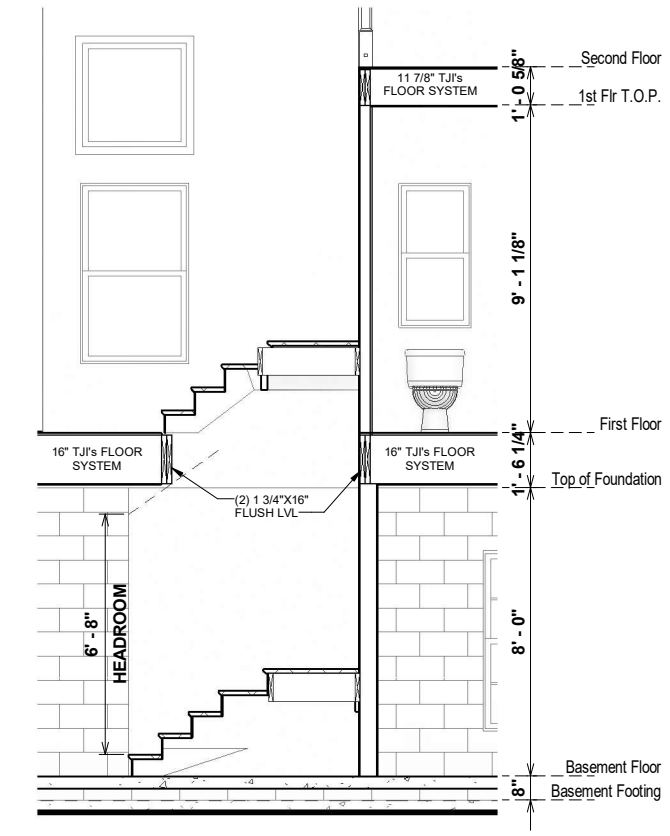
JOB#: **141-21-025**
2x4 EXTERIOR WALLS
 FOUNDATION TYPE: **BASEMENT**

PROPERTY OF: 
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 SHEET NUMBER: **S-2**
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DETAILS & SECTIONS



1 SECTION THROUGH STAIR
3/16" = 1'-0"

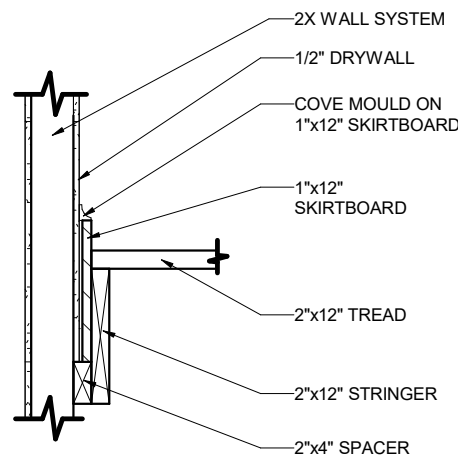


2 STAIR SECTION 2
3/16" = 1'-0"

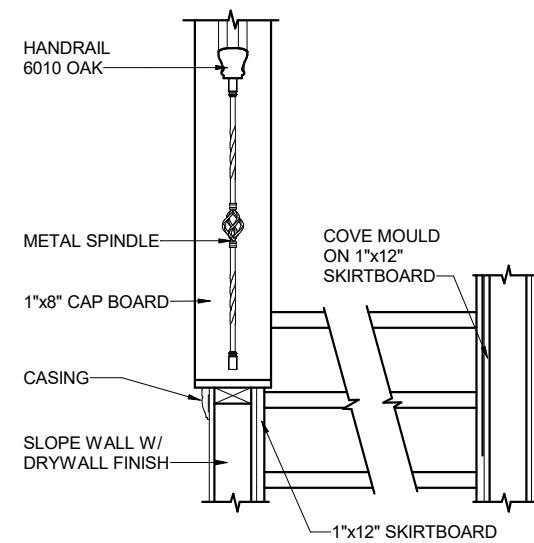
OPT. PAPER SIZE: for 1/4" = 1'-0" on 24"x36" PAPER SIZE ENLARGE PRINTS TO 200%

FINAL CONSTRUCTION PLANS

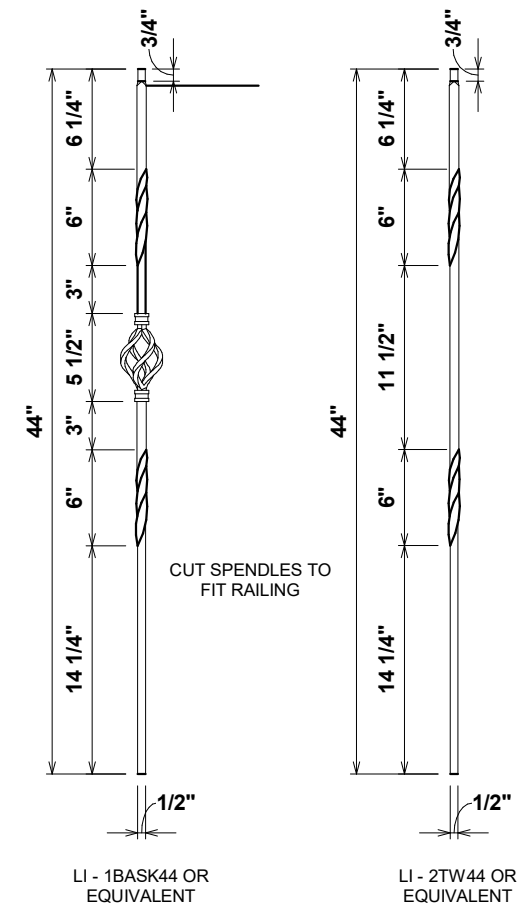
SHEET NUMBER:	PROPERTY OF:	DRAWN BY:	JOB#	THE:	Revision Schedule	
					Revision Number	Revision Description
S-3		S. RODRIGUEZ A. ALIAGA	141-21-025	NOTTELY MODERN FARMHOUSE	1,395 SF	Revision Date
					380 SF	Revision Description
					1,775 SF	
					235 SF	
					162 SF	
					20 SF	
FOUNDATION TYPE: BASEMENT FOR: WOLVINGTON, JASON & KAELA 11 PINEWOOD ROAD SANFORD NC 27332 CUMBERLAND- NC OFFICE: FAYETTEVILLE SOLD BY: F. EJAZ					AREAS:	1,395 SF
					FIRST FLOOR HEATED	1,395 SF
					SECOND FLOOR HEATED	380 SF
					UNFINISHED BASEMENT	1,775 SF
					ATTIC AREA	235 SF
					SIDE PORCH	162 SF
					REAR PORCH	20 SF
					TOTAL UNDER ROOF	3,587 SF



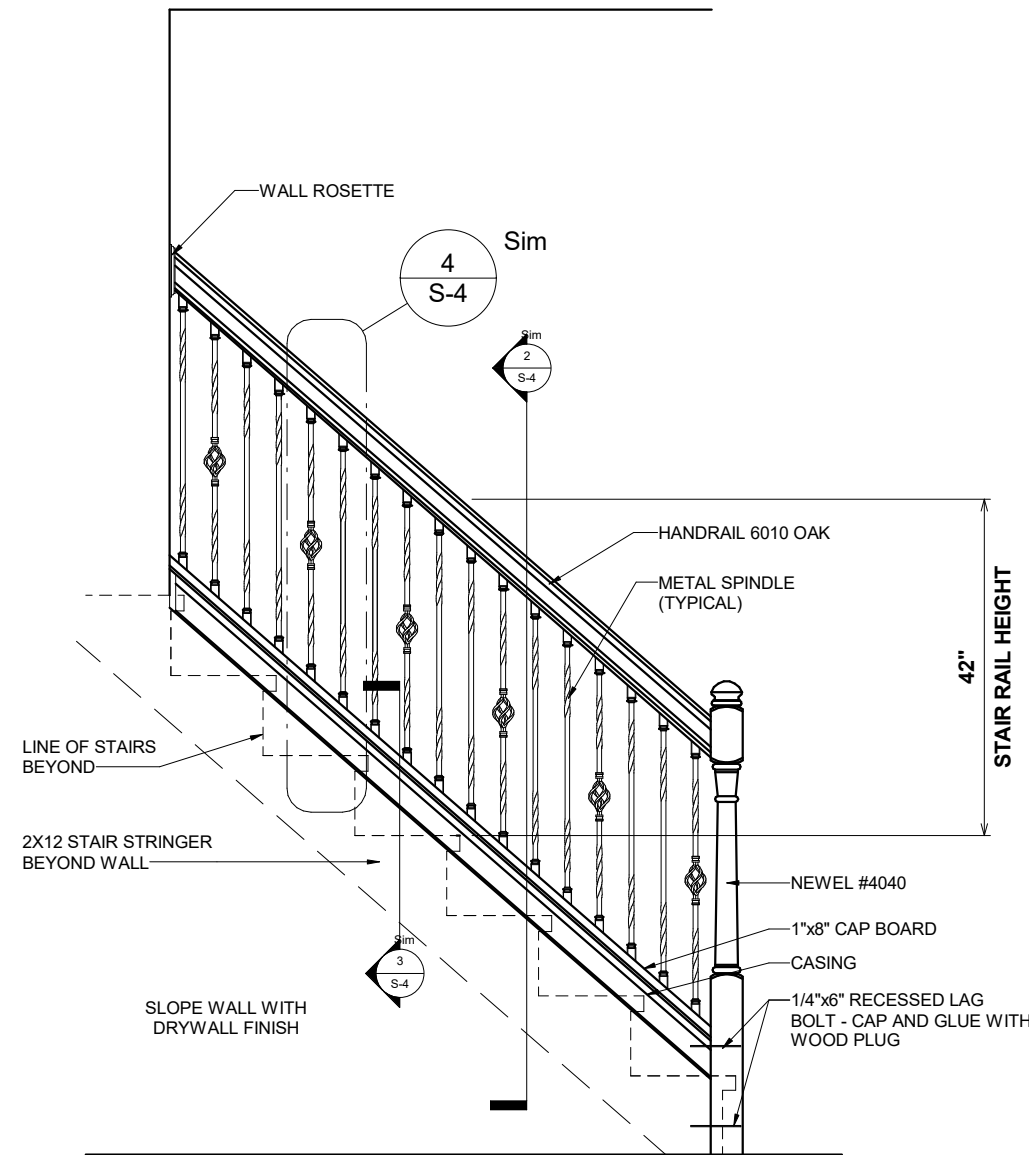
③ 900.5 STAIR SECTION THRU STRINGER
3/4" = 1'-0"



② 900.4 STAIR TRIM @ SLOPED WALL
1/2" = 1'-0"



④ 900.7 STAIR SPINDLE DETAIL
1" = 1'-0"



① 900.3 STAIR SLOPED WALL AT RAILING
1/2" = 1'-0"

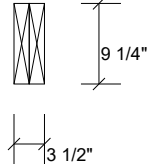
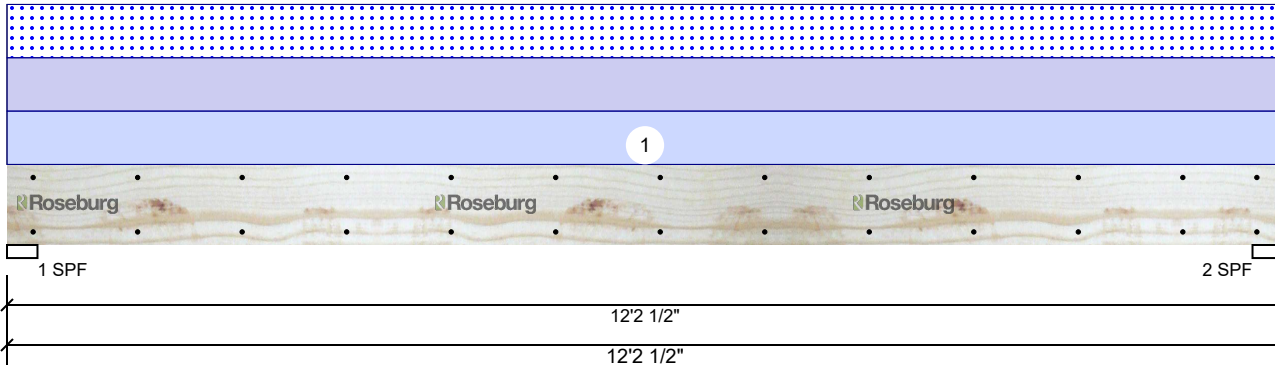
OPT. PAPER SIZE: for 1/4" = 1'-0" on 24"x36" PAPER SIZE ENLARGE PRINTS TO 200%

FINAL CONSTRUCTION PLANS

SHEET NUMBER:	JOB#	THE:	AREAS:		Revision Schedule		
			FIRST FLOOR HEATED	SECOND FLOOR HEATED	Revision Number	Revision Description	Revision Date
S-4	141-21-025	NOTTELY MODERN FARMHOUSE FOR: WOLVINGTON, JASON & KAELA	FIRST FLOOR HEATED	1,395 SF	1,395 SF		
			SECOND FLOOR HEATED	380 SF	380 SF		
			UNFINISHED BASEMENT	1,775 SF	1,775 SF		
			ATTIC AREA	235 SF	235 SF		
			SIDE PORCH	162 SF	162 SF		
REAR PORCH	20 SF	20 SF					
TOTAL UNDER ROOF			1,812 SF	3,587 SF			
PROPERTY OF:			11 PINEWOOD ROAD SANFORD NC 27332 CUMBERLAND- NC				
			OFFICE: FAYETTEVILLE		SOLD BY: F. EJAZ		
			FOUNDATION TYPE: BASEMENT				
			2X4 EXTERIOR WALLS				
			DRAWN BY: S. RODRIGUEZ / A. ALIAGA				
			CHECKED BY: JS				
			PRINT DATE: 3/25/2022 12:45:01 PM				
			AMERICA'S HOME PLACE				
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RBM2 2.0E Rigidlam LVL 1.750" X 9.250" 2-Ply - PASSED

Level: ROOF



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		
General Load			
Floor Live:	40 PSF		
Dead:	20 PSF		
Snow:	30 PSF		
Construction:	30 PSF		

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	663	610	0	610
2	Vertical	0	663	610	0	610

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	24%	663 / 610	1273	L	D+S
2 - SPF	3.500"	Vert	24%	663 / 610	1273	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3599 ft-lb	6'1 1/4"	15318 ft-lb	0.235 (23%)	D+S	L
Unbraced	3599 ft-lb	6'1 1/4"	6494 ft-lb	0.554 (55%)	D+S	L
Shear	1058 lb	11'1 3/4"	7198 lb	0.147 (15%)	D+S	L
LL Defl inch	0.093 (L/1518)	6'1 1/4"	0.392 (L/360)	0.237 (24%)	C	L
TL Defl inch	0.194 (L/728)	6'1 1/4"	0.588 (L/240)	0.330 (33%)	D+C	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform		5-0-0	Top	20 PSF	0 PSF	20 PSF	0 PSF	20 PSF	R
	Self Weight				9 PLF					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

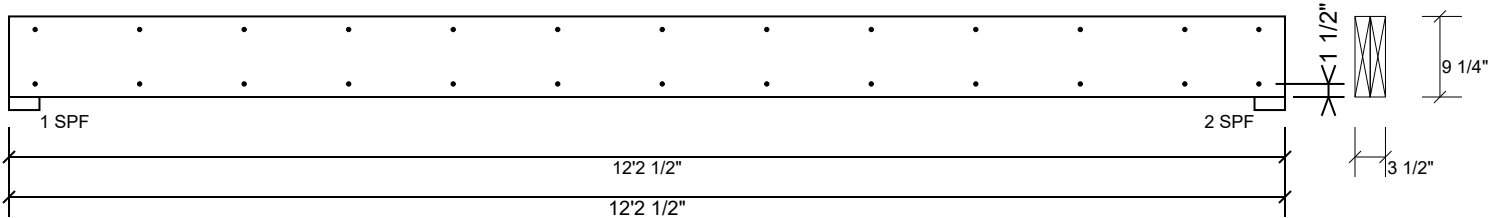
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(541) 784-4005
www.roseburg.com
APA: PR-L289, PR-L270, ICC-ES:
ESR-1210

Riverside Roof Truss LLC
733 River Park Drive, VA
USA
24540
434 793 0217



RBM2 2.0E Rigidlam LVL 1.750" X 9.250" 2-Ply - PASSED

Level: ROOF



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	181.1 PLF
Yield Limit per Fastener	90.5 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

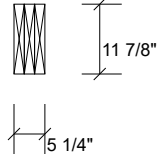
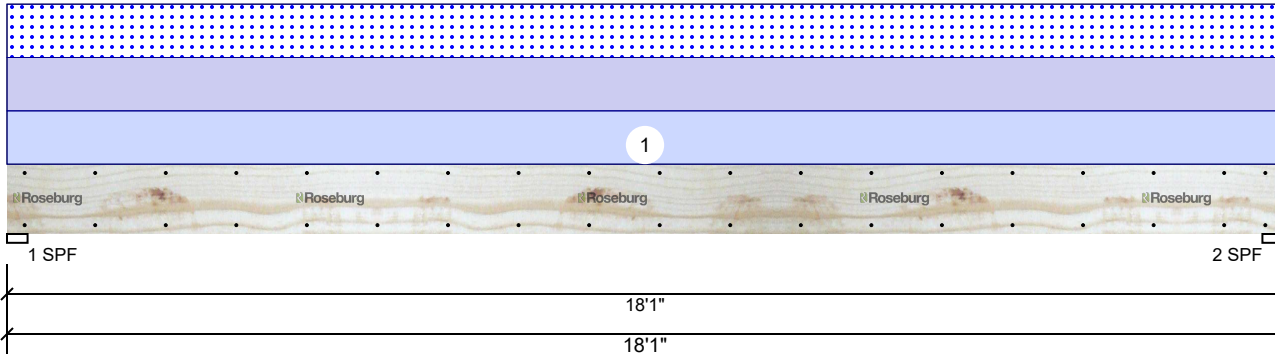
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USA
24540
434 793 0217



RBM1 2.0E Rigidlam LVL 1.750" X 11.875" 3-Ply - PASSED

Level: ROOF



Member Information

Type:	Girder	Application:	Floor
Plies:	3	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	360	Load Sharing:	Yes
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		
General Load			
Floor Live:	40 PSF		
Dead:	20 PSF		
Snow:	30 PSF		
Construction:	30 PSF		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1806	1658	0	1658
2	Vertical	0	1806	1658	0	1658

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	44%	1806 / 1658	3464	L	D+S
2 - SPF	3.500"	Vert	44%	1806 / 1658	3464	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	14877 ft-lb	9' 1/2"	38173 ft-lb	0.390 (39%)	D+S	L
Unbraced	14877 ft-lb	9' 1/2"	14898 ft-lb	0.999 (100%)	D+S	L
Shear	2989 lb	1'3 3/8"	13861 lb	0.216 (22%)	D+S	L
LL Defl inch	0.272 (L/779)	9' 9/16"	0.588 (L/360)	0.462 (46%)	C	L
TL Defl inch	0.568 (L/373)	9' 9/16"	0.881 (L/240)	0.644 (64%)	D+C	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 9'4 3/8" o.c.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform		9-2-0	Top	20 PSF	0 PSF	20 PSF	0 PSF	20 PSF	R
	Self Weight				16 PLF					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

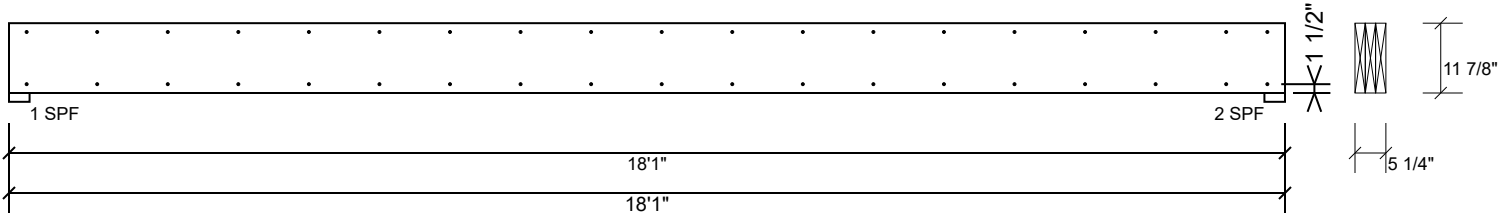
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RBM1 2.0E Rigidlam LVL 1.750" X 11.875" 3-Ply - PASSED

Level: ROOF



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Nail from both sides. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	181.1 PLF
Yield Limit per Fastener	90.5 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

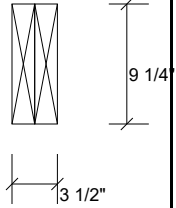
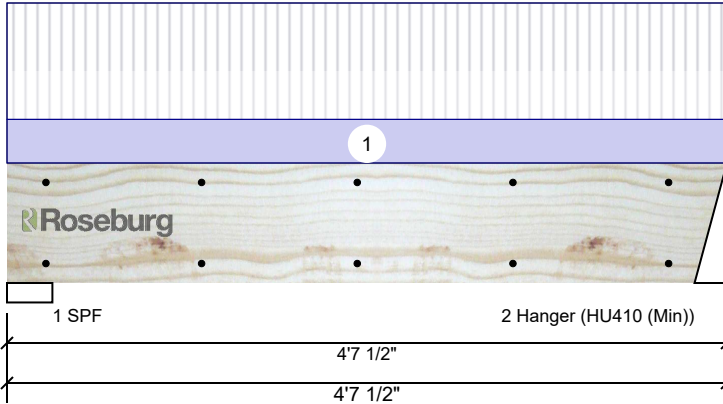
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24540
434 793 0217



2BM4 2.0E Rigidlam LVL 1.750" X 9.250" 2-Ply - PASSED

Level: 2ND FL



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		
General Load			
Floor Live:	40 PSF		
Dead:	20 PSF		
Snow:	30 PSF		
Construction:	30 PSF		

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	1012	400	0	0	0
2	Vertical	976	386	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	27%	400 / 1012	1412	L	D+L
2 - Hanger	2.500"	Vert	21%	386 / 976	1362	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1354 ft-lb	2'4 1/4"	13320 ft-lb	0.102 (10%)	D+L	L
Unbraced	1354 ft-lb	2'4 1/4"	11850 ft-lb	0.114 (11%)	D+L	L
Shear	781 lb	3'7 3/4"	6259 lb	0.125 (12%)	D+L	L
LL Defl inch	0.007 (L/7459)	2'4 5/16"	0.106 (L/480)	0.064 (6%)	L	L
TL Defl inch	0.010 (L/5348)	2'4 5/16"	0.142 (L/360)	0.067 (7%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Fill all hanger nailing holes.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be laterally braced at end bearings.
- 8 Bottom must be laterally braced at end bearings.
- 9 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform		10-9-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	F
	Self Weight				9 PLF					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

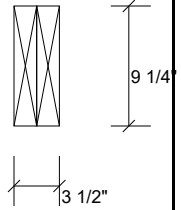
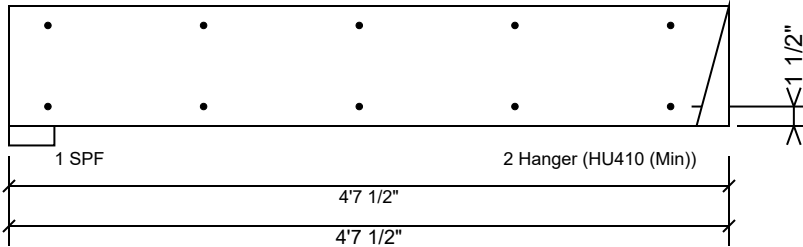
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2BM4 2.0E Rigidlam LVL 1.750" X 9.250" 2-Ply - PASSED

Level: 2ND FL



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	181.1 PLF
Yield Limit per Fastener	90.5 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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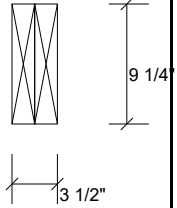
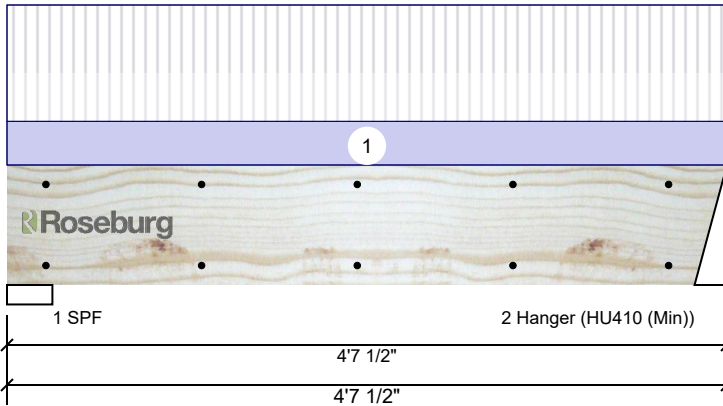
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This design is valid until 11/3/2024

2BM5 2.0E Rigidlam LVL 1.750" X 9.250" 2-Ply - PASSED

Level: 2ND FL



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		
General Load			
Floor Live:	40 PSF		
Dead:	20 PSF		
Snow:	30 PSF		
Construction:	30 PSF		

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	188	91	0	0	0
2	Vertical	182	88	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	5%	91 / 188	279	L	D+L
2 - Hanger	2.500"	Vert	4%	88 / 182	269	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	268 ft-lb	2'4 1/4"	13320 ft-lb	0.020 (2%)	D+L	L
Unbraced	268 ft-lb	2'4 1/4"	11850 ft-lb	0.023 (2%)	D+L	L
Shear	160 lb	3'7 3/4"	6259 lb	0.026 (3%)	D+L	L
LL Defl inch	0.001 (L/40095)	2'4 5/16"	0.106 (L/480)	0.012 (1%)	L	L
TL Defl inch	0.002 (L/27058)	2'4 5/16"	0.142 (L/360)	0.013 (1%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Fill all hanger nailing holes.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be laterally braced at end bearings.
- 8 Bottom must be laterally braced at end bearings.
- 9 Lateral slenderness ratio based on single ply width.

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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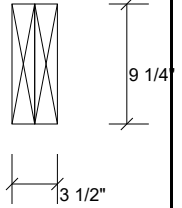
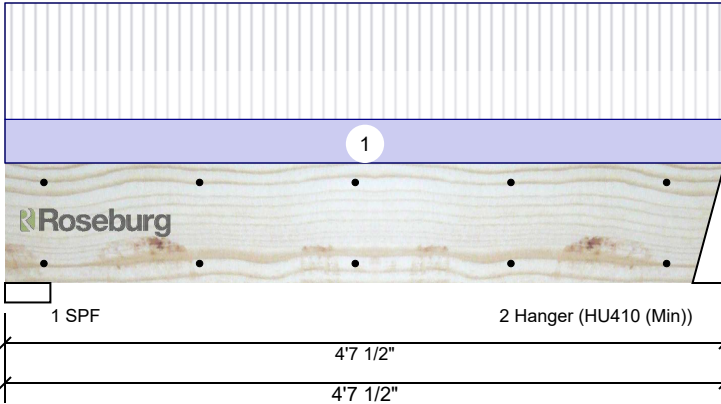
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This design is valid until 11/3/2024

2BM5 2.0E Rigidlam LVL 1.750" X 9.250" 2-Ply - PASSED

Level: 2ND FL



ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform Self Weight		2-0-0	Top	15 PSF 9 PLF	40 PSF	0 PSF	0 PSF	0 PSF	F

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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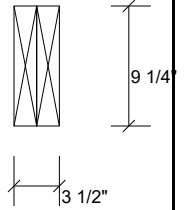
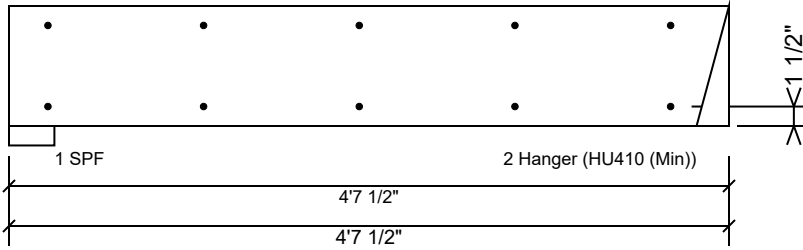
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2BM5 2.0E Rigidlam LVL 1.750" X 9.250" 2-Ply - PASSED

Level: 2ND FL



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	181.1 PLF
Yield Limit per Fastener	90.5 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

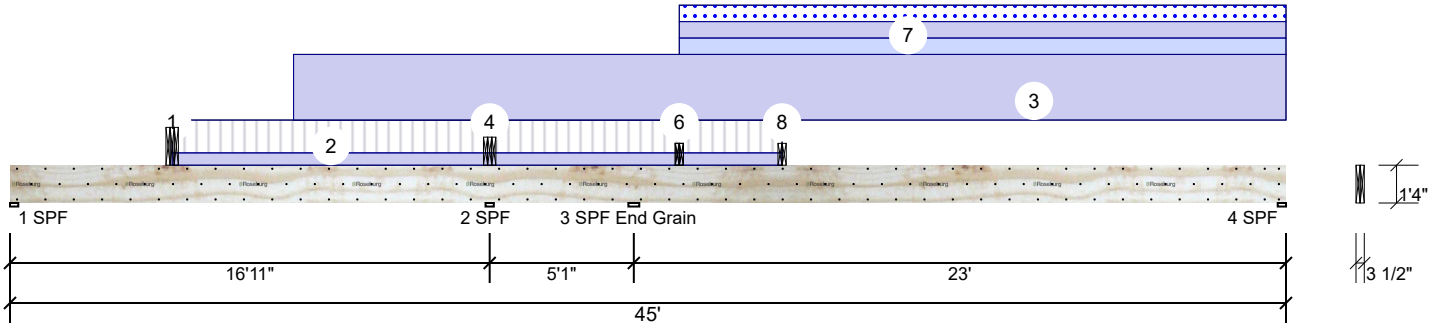
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2BM3 2.0E Rigidlam LVL 1.750" X 16.000" 2-Ply - PASSED

Level: 2ND FL



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		
General Load			
Floor Live:	40 PSF		
Dead:	20 PSF		
Snow:	30 PSF		
Construction:	30 PSF		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	593	679	217	0	217
2	Vertical	906	121	0 (-429)	0	0 (-429)
3	Vertical	1329	7865	4915	0	4915
4	Vertical	54	2583	1678	0	1678

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	25%	679 / 609	1288	L_L	D+0.75(L+S)
2 - SPF	3.500"	Vert	38%	121 / 1880	2002 (-633)	L__	D+C(D+0.75(L+S))
3 - SPF End Grain	4.625"	Vert	99%	7865 / 5133	12998	_LL	D+0.75(L+S)
4 - SPF	3.500"	Vert	82%	2583 / 1678	4261	L_L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-26131 ft-lb	22'	42797 ft-lb	0.611 (61%)	D+S	_L
Unbraced	-26131 ft-lb	22'	26157 ft-lb	0.999 (100%)	D+S	_L
Pos Moment	18998 ft-lb	35'7 9/16"	42797 ft-lb	0.444 (44%)	D+S	L_L
Unbraced	18998 ft-lb	35'7 9/16"	19006 ft-lb	1.000 (100%)	D+S	L_L
Shear	7550 lb	23'6 5/16"	12451 lb	0.606 (61%)	D+0.75(L+S)	_LL
LL Defl inch	0.239 (L/1141)	34'7 1/2"	0.569 (L/480)	0.421 (42%)	C	LLL
TL Defl inch	0.615 (L/444)	34'7 3/16"	0.759 (L/360)	0.810 (81%)	D+C	LLL

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Tie-down connection required at bearing 2 for uplift 633 lb (Combination D+0.75(L+S), Load Case _L).
- 7 Top must be laterally braced at a maximum of 6'2 3/8" o.c.
- 8 Bottom must be laterally braced at a maximum of 4'4 5/16" o.c.
- 9 Lateral slenderness ratio based on single ply width.

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

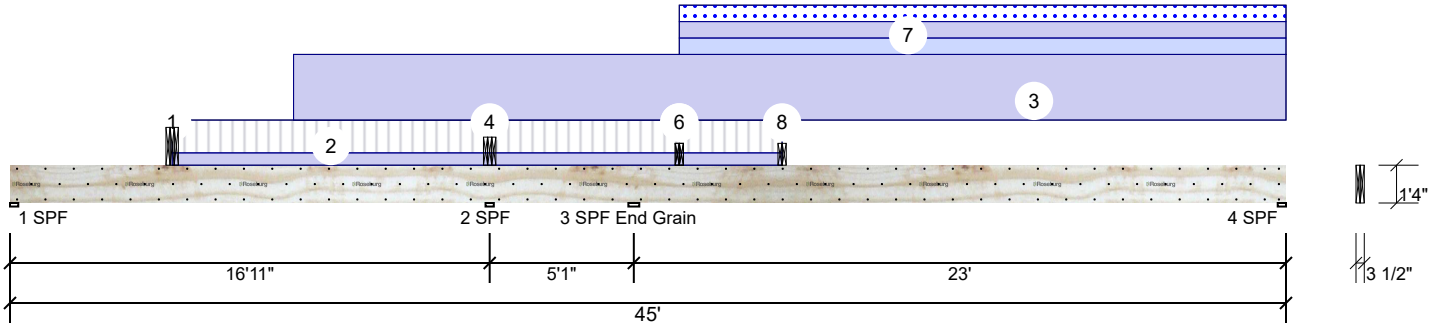
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2BM3 2.0E Rigidlam LVL 1.750" X 16.000" 2-Ply - PASSED

Level: 2ND FL



ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Point	5-8-10		Top	667 lb	863 lb	262 lb	0 lb	262 lb	2BM6 Brg 2
	Bearing Length	0-5-4								
2	Part. Uniform	5-8-10 to 27-2-12	1-0-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	F
3	Part. Uniform	10-0-0 to 45-0-0		Top	80 PLF	0 PLF	0 PLF	0 PLF	0 PLF	W
4	Point	16-11-0		Top	1806 lb	0 lb	1658 lb	0 lb	1658 lb	RBM1 Brg 2
	Bearing Length	0-5-4								
5	Point	23-7-4		Top	386 lb	977 lb	0 lb	0 lb	0 lb	2BM4 Brg 2
	Bearing Length	0-3-8								
6	Point	23-7-4		Top	663 lb	0 lb	610 lb	0 lb	610 lb	RBM2 Brg 2
	Bearing Length	0-3-8								
7	Part. Uniform	23-7-4 to 45-0-0	9-0-0	Top	20 PSF	0 PSF	20 PSF	0 PSF	20 PSF	SCISSOR TRUSSES
8	Point	27-2-12		Top	88 lb	182 lb	0 lb	0 lb	0 lb	2BM5 Brg 2
	Bearing Length	0-3-8								
	Self Weight				15 PLF					

Notes
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Lumber
1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation
1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

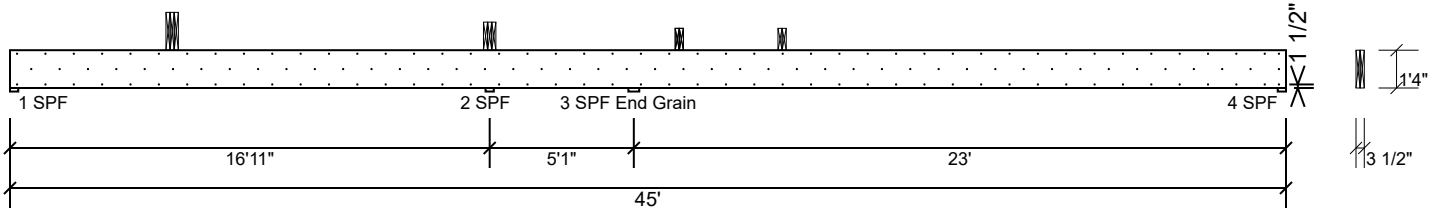
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RIVERSIDE ROOF TRUSS

2BM3 2.0E Rigidlam LVL 1.750" X 16.000" 2-Ply - PASSED

Level: 2ND FL



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	271.6 PLF
Yield Limit per Fastener	90.5 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

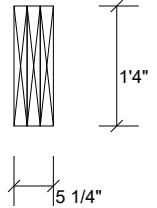
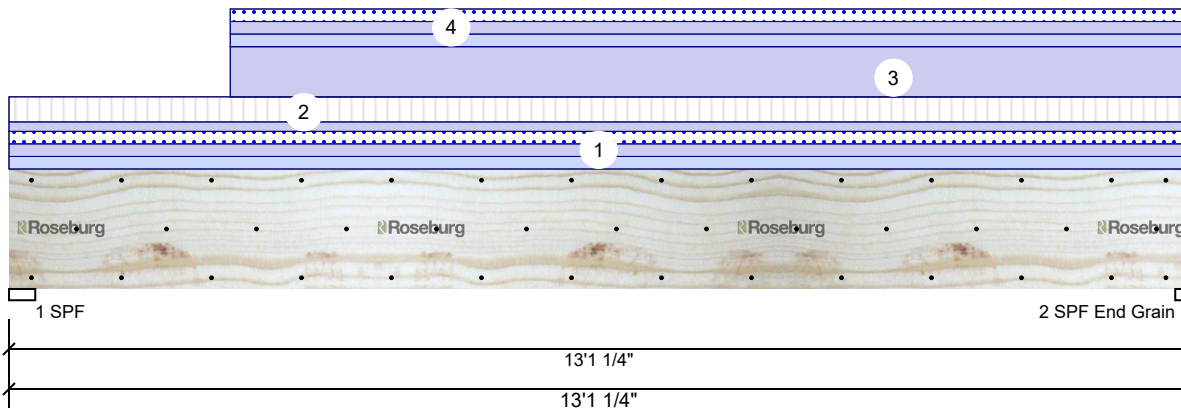
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2BM2 2.0E Rigidlam LVL 1.750" X 16.000" 3-Ply - PASSED

Level: 2ND FL



Member Information

Type:	Girder	Application:	Floor
Plies:	3	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	Yes
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		
General Load			
Floor Live:	40 PSF		
Dead:	20 PSF		
Snow:	30 PSF		
Construction:	30 PSF		

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	596	2043	1324	0	1324
2	Vertical	583	2604	1739	0	1739

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	45%	2043 / 1440	3483	L	D+0.75(L+S)
2 - SPF	1.750"	Vert	63%	2604 / 1742	4346	L	D+0.75(L+S)

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	13432 ft-lb	6'9 1/16"	66764 ft-lb	0.201 (20%)	D+0.75(L+S)	L
Unbraced	13432 ft-lb	6'9 1/16"	14990 ft-lb	0.896 (90%)	D+0.75(L+S)	L
Shear	3363 lb	11'7 1/2"	18676 lb	0.180 (18%)	D+0.75(L+S)	L
LL Defl inch	0.044 (L/3486)	6'7 15/16"	0.320 (L/480)	0.138 (14%)	0.75(L+C)	Uniform
TL Defl inch	0.110 (L/1402)	6'8"	0.426 (L/360)	0.257 (26%)	D+0.75(L+C)	Uniform

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform		2-9-0	Top	20 PSF	0 PSF	20 PSF	0 PSF	20 PSF	LR
2	Uniform		2-3-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	F
3	Part. Uniform	2-5-8 to 13-1-4		Top	80 PLF	0 PLF	0 PLF	0 PLF	0 PLF	W
4	Part. Uniform	2-5-8 to 13-1-4	11-0-0	Top	20 PSF	0 PSF	20 PSF	0 PSF	20 PSF	UR
	Self Weight				22 PLF					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

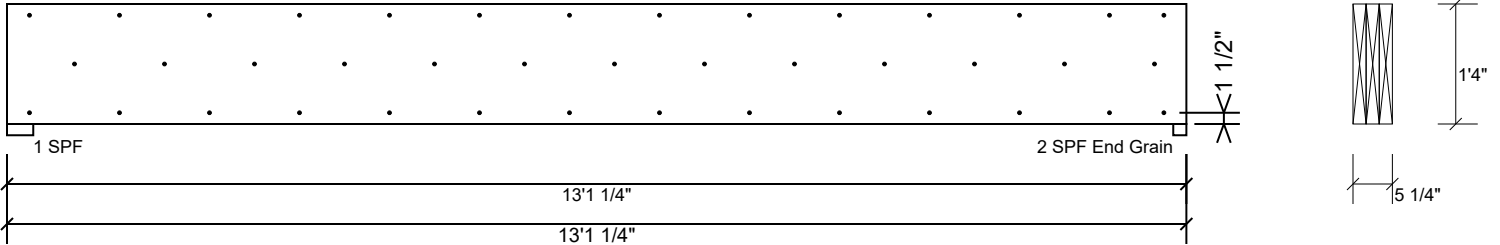
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2BM2 2.0E Rigidlam LVL 1.750" X 16.000" 3-Ply - PASSED

Level: 2ND FL



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Nail from both sides. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	271.6 PLF
Yield Limit per Fastener	90.5 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

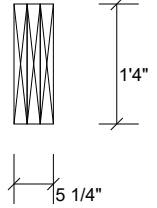
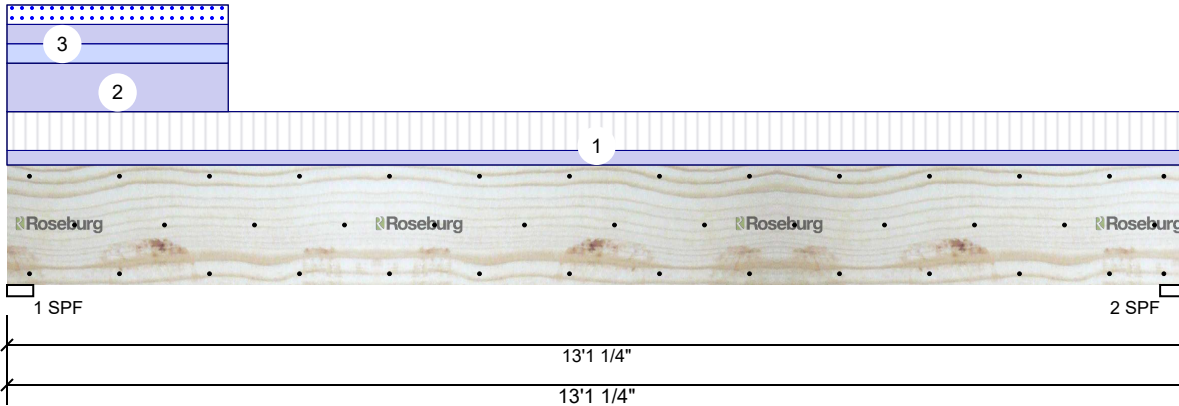
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2BM7 2.0E Rigidlam LVL 1.750" X 16.000" 3-Ply - PASSED

Level: 2ND FL



Member Information

Type:	Girder	Application:	Floor
Plies:	3	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	Yes
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		
General Load			
Floor Live:	40 PSF		
Dead:	20 PSF		
Snow:	30 PSF		
Construction:	30 PSF		

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	2392	1566	411	0	411
2	Vertical	2392	1088	36	0	36

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	51%	1566 / 2392	3958	L	D+L
2 - SPF	3.500"	Vert	45%	1088 / 2392	3479	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	10765 ft-lb	6'5 9/16"	58056 ft-lb	0.185 (19%)	D+L	L
Unbraced	10765 ft-lb	6'5 9/16"	15091 ft-lb	0.713 (71%)	D+L	L
Shear	2759 lb	1'7 1/2"	16240 lb	0.170 (17%)	D+L	L
LL Defl inch	0.059 (L/2590)	6'6 5/8"	0.316 (L/480)	0.185 (19%)	L	L
TL Defl inch	0.087 (L/1747)	6'6 5/16"	0.422 (L/360)	0.206 (21%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform		9-1-8	Top	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	F
2	Part. Uniform	0-0-0 to 2-5-8		Top	50 PLF	0 PLF	0 PLF	0 PLF	0 PLF	W
3	Part. Uniform	0-0-0 to 2-5-8	9-1-0	Top	20 PSF	0 PSF	20 PSF	0 PSF	20 PSF	R
	Self Weight				22 PLF					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

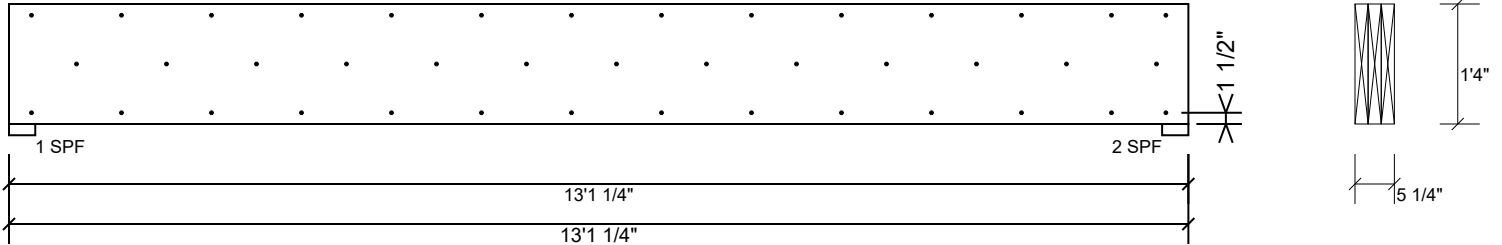
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2BM7 2.0E Rigidlam LVL 1.750" X 16.000" 3-Ply - PASSED

Level: 2ND FL



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Nail from both sides. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	271.6 PLF
Yield Limit per Fastener	90.5 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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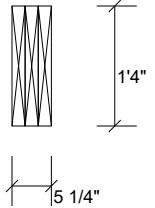
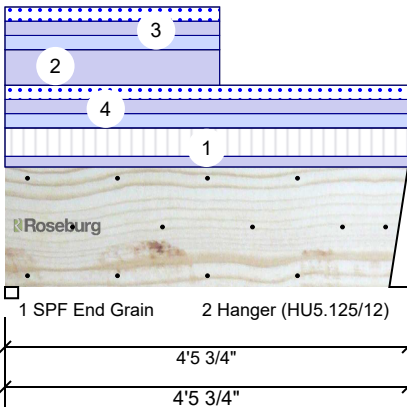
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2BM6 2.0E Rigidlam LVL 1.750" X 16.000" 3-Ply - PASSED

Level: 2ND FL



Member Information

Type:	Girder
Plies:	3
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360
Importance:	Normal - II
Temperature:	Temp <= 100°F
General Load	
Floor Live:	40 PSF
Dead:	20 PSF
Snow:	30 PSF
Construction:	30 PSF

Application:	Floor
Design Method:	ASD
Building Code:	IBC/IRC 2015
Load Sharing:	Yes
Deck:	Not Checked

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	839	961	509	0	509
2	Vertical	863	667	262	0	262

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	1.750"	Vert	29%	961 / 1011	1972	L	D+0.75(L+S)
2 - Hanger	2.500"	Vert	16%	667 / 863	1530	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1716 ft-lb	2' 7/8"	58056 ft-lb	0.030 (3%)	D+L	L
Unbraced	1821 ft-lb	2' 1/8"	40322 ft-lb	0.045 (5%)	D+0.75(L+S)	L
Shear	635 lb	2'11 1/4"	16240 lb	0.039 (4%)	D+L	L
LL Defl inch	0.001 (L/59309)	2'2 1/8"	0.106 (L/480)	0.008 (1%)	0.75(L+C)	Uniform
TL Defl inch	0.002 (L/31408)	2'2"	0.142 (L/360)	0.011 (1%)	D+0.75(L+C)	Uniform

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Fill all hanger nailing holes.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be laterally braced at end bearings.
- 8 Bottom must be laterally braced at end bearings.
- 9 Lateral slenderness ratio based on single ply width.

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

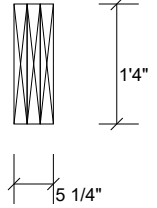
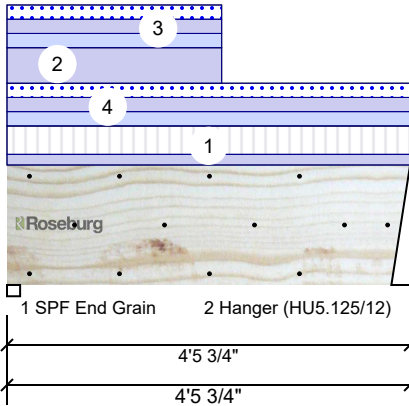
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2BM6 2.0E Rigidlam LVL 1.750" X 16.000" 3-Ply - PASSED

Level: 2ND FL



ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform		9-6-0	Top	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	F
2	Part. Uniform	0-0-0 to 2-4-10		Top	50 PLF	0 PLF	0 PLF	0 PLF	0 PLF	W
3	Part. Uniform	0-0-0 to 2-4-10	11-0-0	Top	20 PSF	0 PSF	20 PSF	0 PSF	20 PSF	UR
4	Uniform		2-9-0	Top	20 PSF	0 PSF	20 PSF	0 PSF	20 PSF	LR
	Self Weight				22 PLF					

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
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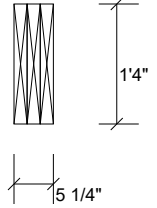
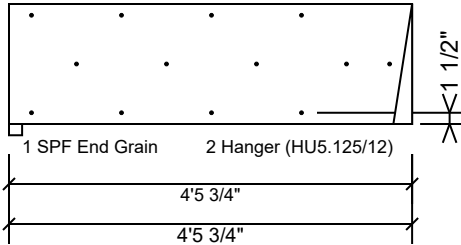
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This design is valid until 11/3/2024

2BM6 2.0E Rigidlam LVL 1.750" X 16.000" 3-Ply - PASSED

Level: 2ND FL



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Nail from both sides. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	271.6 PLF
Yield Limit per Fastener	90.5 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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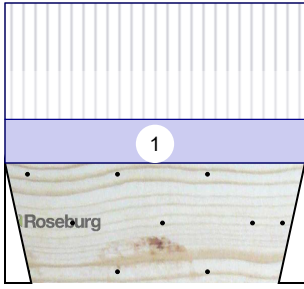
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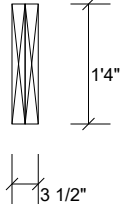


2BM1 2.0E Rigidlam LVL 1.750" X 16.000" 2-Ply - PASSED

Level: 2ND FL



1 Hanger (IUS3.56/11.88 (Min))
2 Hanger (IUS3.56/11.88 (Min))
3'4"
3'4"



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		
General Load			
Floor Live:	40 PSF		
Dead:	20 PSF		
Snow:	30 PSF		
Construction:	30 PSF		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	400	175	0	0	0
2	Vertical	400	175	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	3.500"	Vert	11%	175 / 400	575	L	D+L
2 - Hanger	3.500"	Vert	11%	175 / 400	575	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	421 ft-lb	1'8"	37215 ft-lb	0.011 (1%)	D+L	L
Unbraced	421 ft-lb	1'8"	31741 ft-lb	0.013 (1%)	D+L	L
Shear	77 lb	1'6"	10827 lb	0.007 (1%)	D+L	L
LL Defl inch	0.000 (L/173986)	1'8"	0.078 (L/480)	0.003 (0%)	L	L
TL Defl inch	0.000 (L/121112)	1'8"	0.104 (L/360)	0.003 (0%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Fill all hanger nailing holes.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be laterally braced at end bearings.
- 8 Bottom must be laterally braced at end bearings.
- 9 Lateral slenderness ratio based on single ply width.

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

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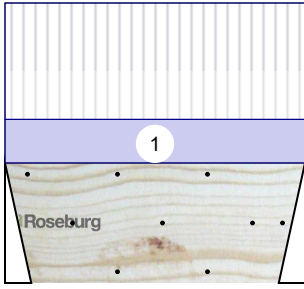
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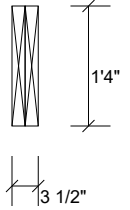
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2BM1 2.0E Rigidlam LVL 1.750" X 16.000" 2-Ply - PASSED

Level: 2ND FL



1 Hanger (IUS3.56/11.88 (Min))
2 Hanger (IUS3.56/11.88 (Min))
3'4"
3'4"



ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform Self Weight		6-0-0	Top	15 PSF 15 PLF	40 PSF	0 PSF	0 PSF	0 PSF	F

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

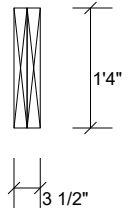
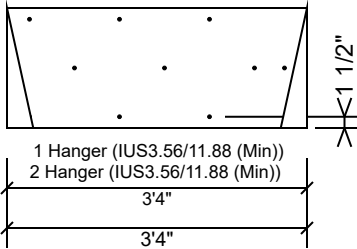
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2BM1 2.0E Rigidlam LVL 1.750" X 16.000" 2-Ply - PASSED

Level: 2ND FL



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	271.6 PLF
Yield Limit per Fastener	90.5 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

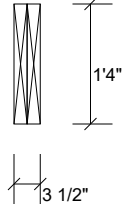
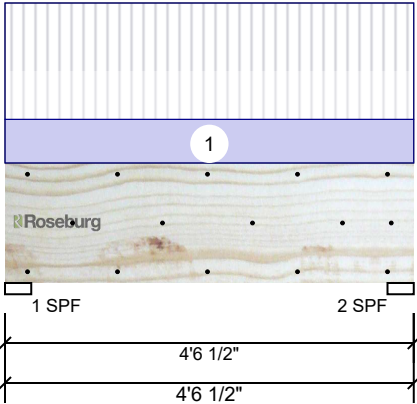
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1BM3 2.0E Rigidlam LVL 1.750" X 16.000" 2-Ply - PASSED

Level: 1ST FL



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		
General Load			
Floor Live:	40 PSF		
Dead:	20 PSF		
Snow:	30 PSF		
Construction:	30 PSF		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	273	136	0	0	0
2	Vertical	273	136	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	8%	136 / 273	408	L	D+L
2 - SPF	3.500"	Vert	8%	136 / 273	408	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	375 ft-lb	2'3 1/4"	37215 ft-lb	0.010 (1%)	D+L	L
Unbraced	375 ft-lb	2'3 1/4"	26855 ft-lb	0.014 (1%)	D+L	L
Shear	136 lb	1'7 1/2"	10827 lb	0.013 (1%)	D+L	L
LL Defl inch	0.000 (L/155974)	2'3 5/16"	0.102 (L/480)	0.003 (0%)	L	L
TL Defl inch	0.000 (L/104111)	2'3 5/16"	0.136 (L/360)	0.003 (0%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Roseburg Forest Products
4500 Riddle By-pass Rd
Riddle, OR 97469
(541) 784-4005
www.roseburg.com
APA: PR-L289, PR-L270, ICC-ES:
ESR-1210

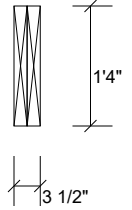
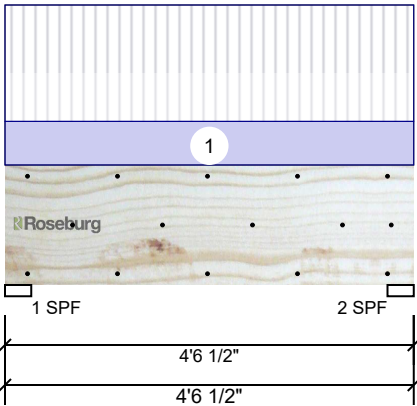
Riverside Roof Truss LLC
733 River Park Drive, VA
USA
24540
434 793 0217



This design is valid until 11/3/2024

1BM3 2.0E Rigidlam LVL 1.750" X 16.000" 2-Ply - PASSED

Level: 1ST FL



ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform Self Weight		3-0-0	Top	15 PSF 15 PLF	40 PSF	0 PSF	0 PSF	0 PSF	F

Notes

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Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

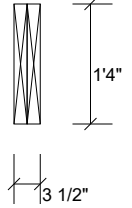
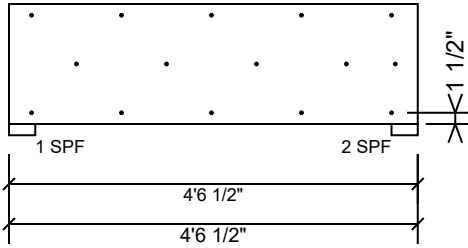
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1BM3 2.0E Rigidlam LVL 1.750" X 16.000" 2-Ply - PASSED

Level: 1ST FL



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	271.6 PLF
Yield Limit per Fastener	90.5 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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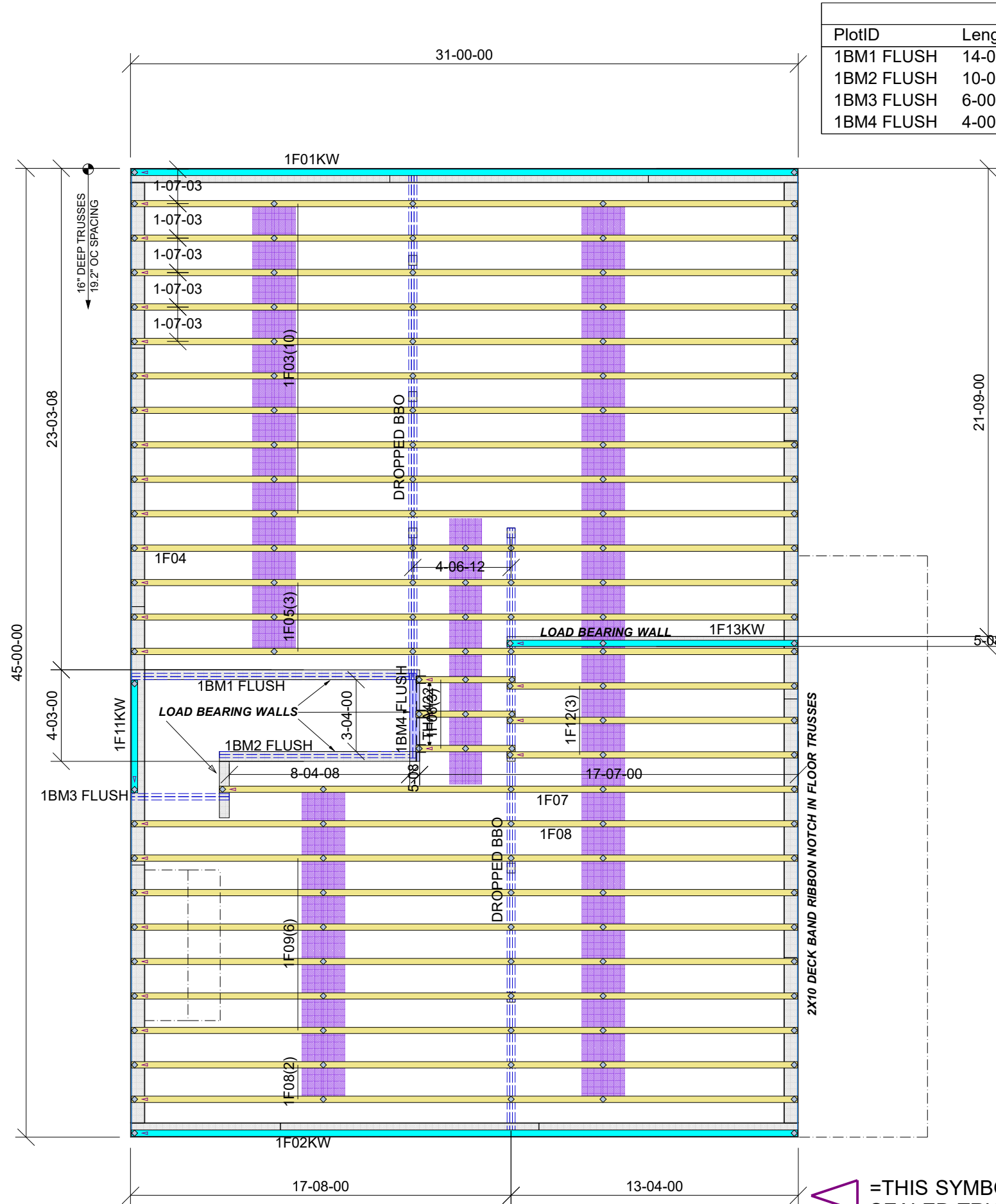
Riverside Roof Truss LLC
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- All bracing, blocking, beams, purlins @ 2'0" o.c., ledger, etc. provided by others.
- Roof truss to roof truss connections provided by Riverside Roof Truss.
- Truss to building connections provided by others.

Refer to Sealed drawings for connection detail of multiple ply trusses.

NOT ALL TRUSSES ARE SYMMETRICAL AND MAY NOT PERFORM CORRECTLY IF INSTALLED BACKWARDS. PLEASE REFER TO SEALS WHILE SETTING TRUSSES TO ENSURE TRUSSES ARE ORIENTED CORRECTLY



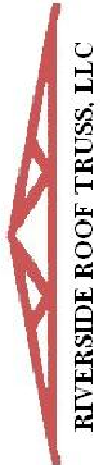
Products				
PlotID	Length	Product	Plies	Net Qty
1BM1 FLUSH	14-00-00	1 3/4" x 16" (2.0E 3100) LVL	2	2
1BM2 FLUSH	10-00-00	1 3/4" x 16" (2.0E 3100) LVL	2	2
1BM3 FLUSH	6-00-00	1 3/4" x 16" (2.0E 3100) LVL	2	2
1BM4 FLUSH	4-00-00	1 3/4" x 16" (2.0E 3100) LVL	2	2

Truss Connector Total List		
Manuf	Product	Qty
Simpson	THA422	3

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, columns, and sufficient blocking in floor cavity under point loads is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of Wood Trusses" available from the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53179.

SHOP DRAWING APPROVAL
THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND VOIDS ALL PREVIOUS ARCHITECTURAL OR OTHER TRUSS LAYOUTS. REVIEW AND APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITIONS TO INSURE AGAINST CHANGES THAT WILL RESULT IN EXTRA CHARGES TO YOU.

REVIEWED BY: _____ APPROVED BY: _____ DATE: _____

Hanger Conversion Chart		Client: 84 LUMBER FAYETTEVILLE NC # 2307
USP	Simpson	Job Name: WOLVINGTON
JUS26	LUS26	Model:
THD26	HUS26	Lot #:
THD26-2	HHUS26-2	Order #:
HJC26	THJA26	Subdivision:
MSH422	THA422	Sales Rep: J Cook
733 RIVER PARK DRIVE DANVILLE, VA 24540 (434) 793-0217 FAX: (434) 799-8767		Designer: M C Date: 3/21/2022
		Roof Surface Area: 2185 ft² Sq. Ft. Floor Surface Area: 1711 ft² Sq. Ft.

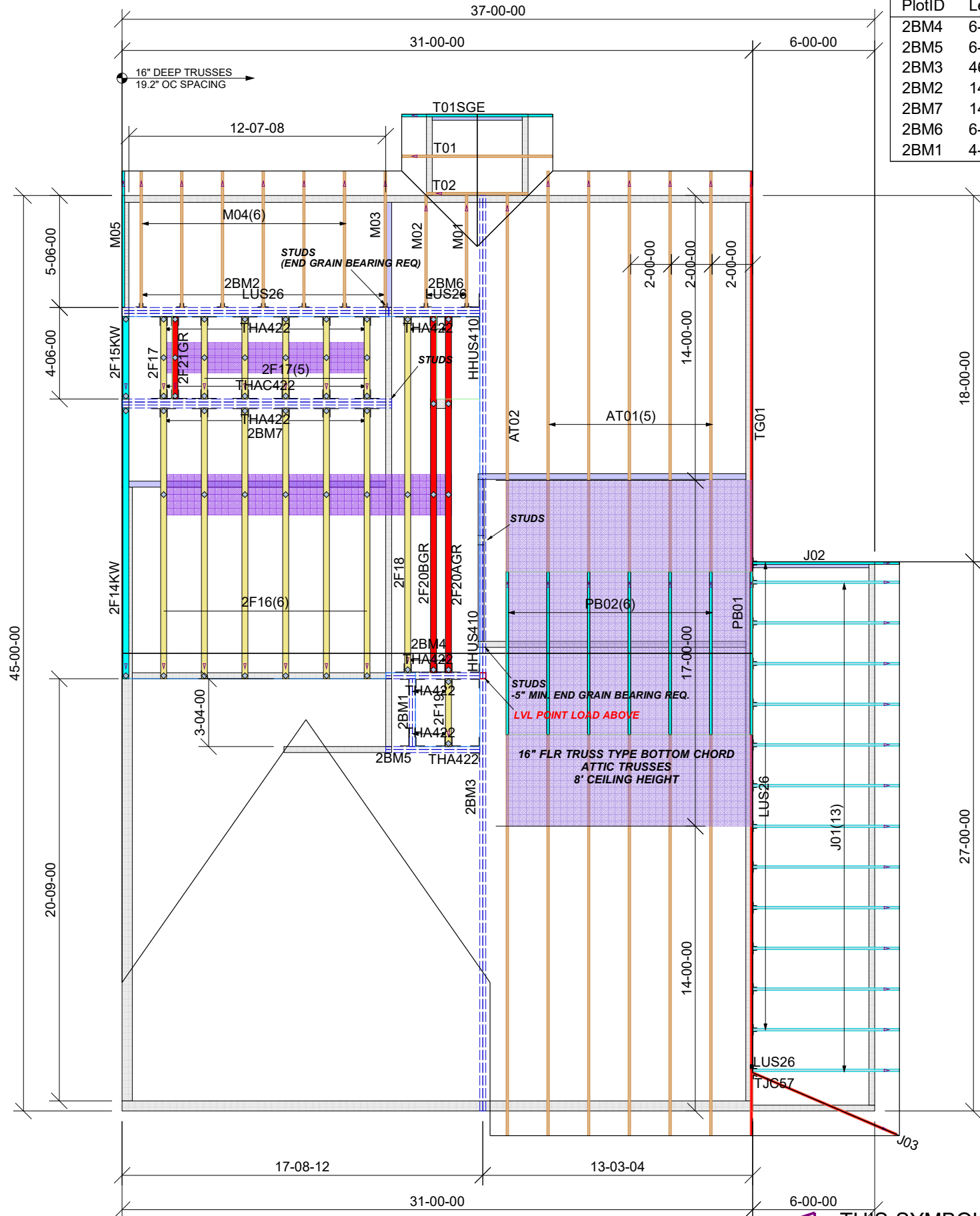


 = THIS SYMBOL INDICATES THE LEFT END OF TRUSS - REFER TO SEALED TRUSS DRAWINGS TO AVOID SETTING TRUSSES BACKWARDS!

- All bracing, blocking, beams, purlins @ 2'0" o.c., ledger, etc. provided by others.
- Roof truss to roof truss connections provided by Riverside Roof Truss.
- Truss to building connections provided by others.

Refer to Sealed drawings for connection detail of multiple ply trusses.

NOT ALL TRUSSES ARE SYMMETRICAL AND MAY NOT PERFORM CORRECTLY IF INSTALLED BACKWARDS. PLEASE REFER TO SEALS WHILE SETTING TRUSSES TO ENSURE TRUSSES ARE ORIENTED CORRECTLY



Products				
PlotID	Length	Product	Plies	Net Qty
2BM4	6-00-00	1 3/4" x 9 1/4" (2.0E 3100) LVL	2	2
2BM5	6-00-00	1 3/4" x 9 1/4" (2.0E 3100) LVL	2	2
2BM3	46-00-00	1 3/4" x 16" (2.0E 3100) LVL	2	2
2BM2	14-00-00	1 3/4" x 16" (2.0E 3100) LVL	3	3
2BM7	14-00-00	1 3/4" x 16" (2.0E 3100) LVL	3	3
2BM6	6-00-00	1 3/4" x 16" (2.0E 3100) LVL	3	3
2BM1	4-00-00	1 3/4" x 16" (2.0E 3100) LVL	2	2

Connector Summary		
Qty	Manuf	Product
1	Simpson	HHUS410
1	Simpson	HHUS410
2	Simpson	THA422
1	Simpson	THA422

Truss Connector Total List		
Manuf	Product	Qty
Simpson	LUS26	23
Simpson	THA422	21
Simpson	THAC422	7
	TJC57	1

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REVIEWED BY: _____ APPROVED BY: _____ DATE: _____

Client: 84 LUMBER FAYETTEVILLE NC # 2307	
Job Name: WOLVINGTON	Model: _____
Subdivision: _____	Lot #: _____
Order #: 22-1327-A	Sales Rep: J Cook
Designer: M C	Date: 3/21/2022

Hanger Conversion Chart

USP	Simpson
JUS26	LUS26
THD26	HUS26
THD26-2	HHUS26-2
HJC26	THJA26
MSH422	THA422

733 RIVER PARK DRIVE DANVILLE, VA 24540 (434) 793-0217 FAX: (434) 799-8767

RIVERSIDE ROOF TRUSS, LLC

Roof Surface Area: **2185 ft² Sq. Ft.**
Floor Surface Area: **1711 ft² Sq. Ft.**

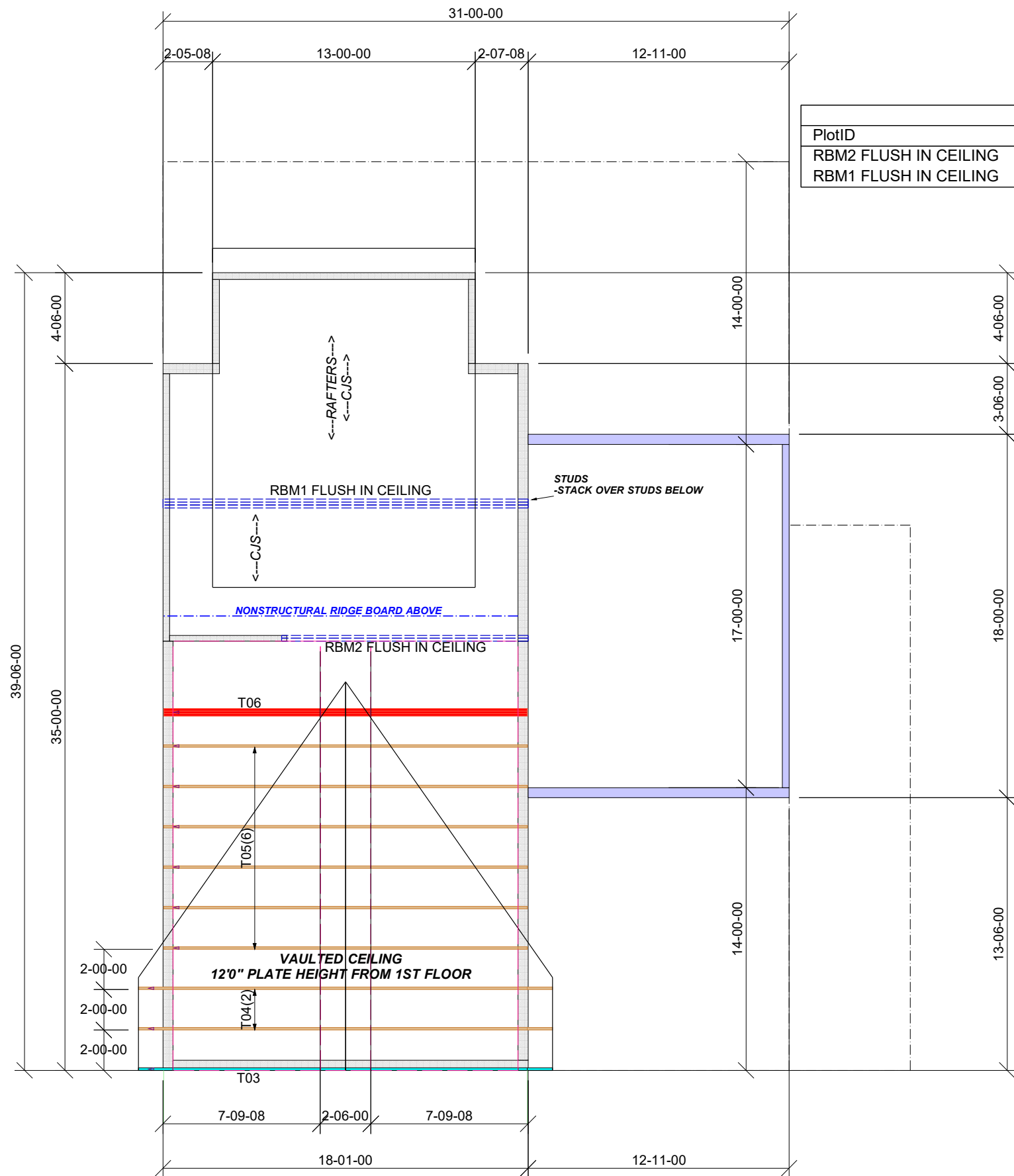


= THIS SYMBOL INDICATES THE LEFT END OF TRUSS - REFER TO SEALED TRUSS DRAWINGS TO AVOID SETTING TRUSSES BACKWARDS!

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PlotID	Length	Product	Plies	Net Qty
RBM2 FLUSH IN CEILING	14-00-00	1 3/4" x 9 1/4" (2.0E 3100) LVL	2	2
RBM1 FLUSH IN CEILING	20-00-00	1 3/4" x 11 7/8" (2.0E 3100) LVL	3	3



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733 RIVER PARK DRIVE DANVILLE, VA 24540 (434) 793-0217 FAX: (434) 799-8767		Designer: M C
		Date: 3/21/2022
Roof Surface Area: 2185 ft² Sq. Ft. Floor Surface Area: 1711 ft² Sq. Ft.		