



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

12/14/2021

RESIDENCE OF
**DYLAN
KOERNER**

Project

MADDEN

HOME DESIGN

A

B D

8375 Rushing Road
Dentham Springs, Louisiana
70726
Phone: (225) 791-2912

Project No.: Hickory Ridge-Mirror
 DATE: MAY 7, 2021
 DRAWN BY: Steven Madden
 DESIGNED BY: Steven Madden

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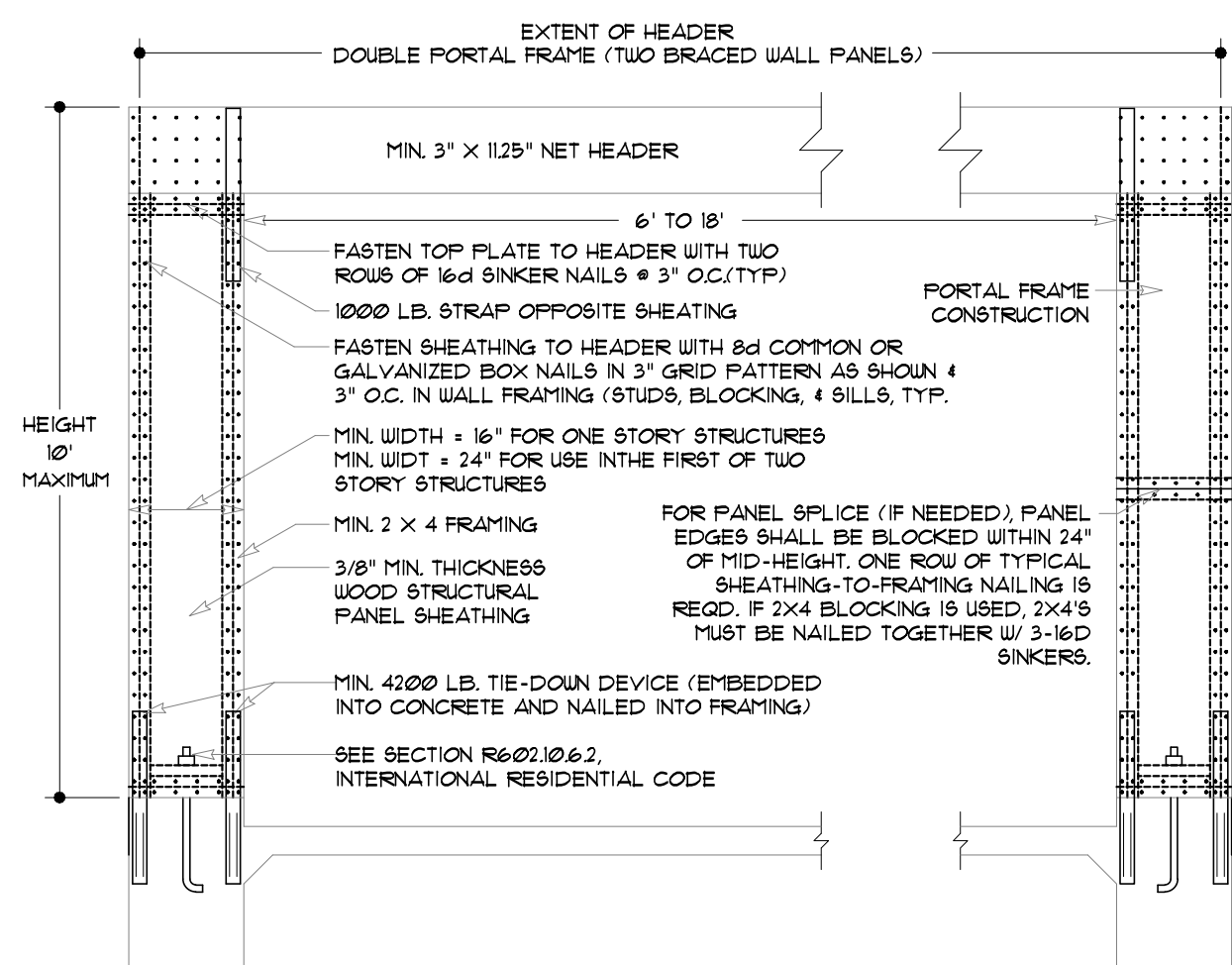
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COVER SHEET

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| <input type="checkbox"/> Preliminary Dwg.
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MADDEN HOME DESIGN, LLC NOT BEING AN ARCHITECTURAL OR ENGINEERING FIRM AS SUCH, SHALL NOT BE HELD RESPONSIBLE FOR ANY DESIGN OR CONSTRUCTION. EVERY EFFORT HAS BEEN MADE TO INSURE ALL DIMENSIONS ARE CORRECT AND ENVIRONMENTAL REGULATIONS HAVE BEEN MET. IF AN ERROR OR OMISSION DOES OCCUR, IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR OWNER AT HIS/HER OWN EXPENSE AND THE CONTRACTOR'S RESPONSIBILITY OF THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF DIMENSIONS IN THE FIELD AND SHALL BUILD HOME IN ACCORDANCE WITH THE INTERNATIONAL RESIDENTIAL CODE 2015.



IMPORTANT NOTE:
ALL EGRESS OR RESCUE WINDOWS FROM SLEEPING ROOMS MUST HAVE A MINIMUM NET CLEAR OPENING OF 5.7 SQUARE FEET. GRADE FLOOR WINDOWS MAY HAVE A MINIMUM NET CLEAR OPENING OF 5 SQUARE FEET. THE MINIMUM NET CLEAR OPENING HEIGHT SHALL BE 24". THE MINIMUM NET CLEAR OPENING WIDTH SHALL BE 20". MAXIMUM SILL HEIGHT = 44" AFF.

WINDOW SCHEDULE			
MARK	OPENING SIZE	DESCRIPTION	QTY.
A	2'0" x 1'0"	2/2 LITE VINYL SINGLE HUNG WINDOW INSULATED	4
B	2'0" x 6'0"	2/2 LITE VINYL SINGLE HUNG WINDOW INSULATED	2
C	2'0" x 4'0"	4 LITE VINYL FIXED WINDOW INSULATED	1
D	2'0" x 3'6"	2/2 LITE VINYL SINGLE HUNG WINDOW INSULATED	1
E	2'0" x 4'0"	2/2 LITE VINYL SINGLE HUNG WINDOW INSULATED	2
F	4'0" x 4'0"	DBL. 6 LITE VINYL CASEMENT WINDOW INSULATED	1
G	5'0" x 5'0"	DBL. 6 LITE VINYL CASEMENT WINDOW INSULATED	1
H	3'0" x 6'0"	2/2 LITE VINYL SINGLE HUNG WINDOW INSULATED	2
J	3'0" x 1'0"	2/2 LITE VINYL SINGLE HUNG WINDOW INSULATED	3

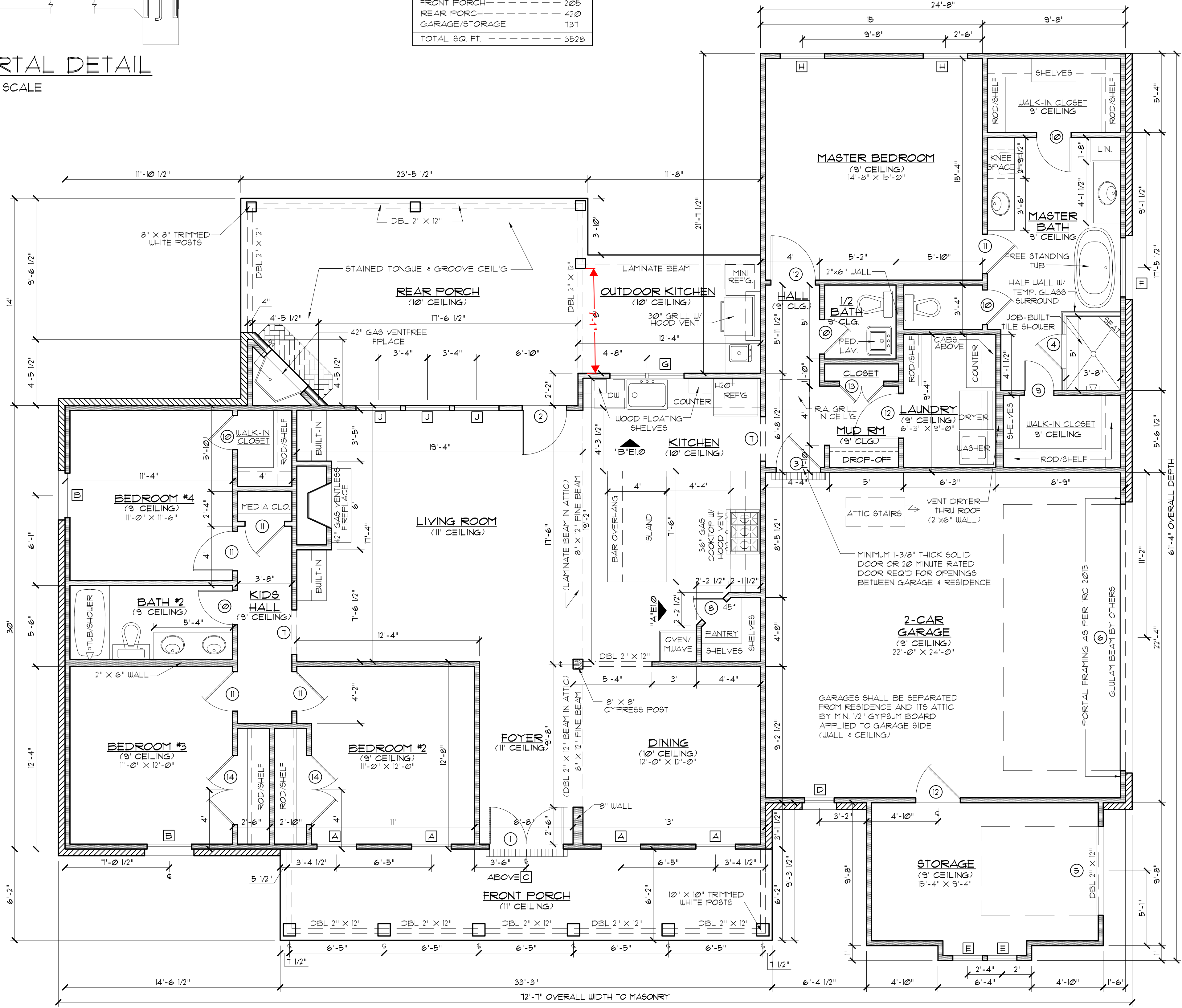
SQUARE FOOTAGE	
LIVING	2166
FRONT PORCH	205
REAR PORCH	420
GARAGE/STORAGE	131
TOTAL SQ. FT.	3528

DOOR SCHEDULE			
MARK	SIZE	DESCRIPTION	QTY.
1	DBL 2'6" x 8'0"	EXTERIOR 4 LITE 3/4 FRENCH SOLID WOOD DOORS	1 PAIR
2	3'0" x 8'0"	EXTERIOR 1 LITE FULL FRENCH WOOD DOOR	1
3	3'0" x 8'0"	EXTERIOR 6 PANEL METAL DOOR	1
4	2'0" x 8'0"	TEMPERED FRAMELESS GLASS SHOWER DOOR	1
5	6'0" x 8'0"	EXTERIOR OVERHEAD METAL ROLL-UP GARAGE DOOR	1
6	18'0" x 8'0"	EXTERIOR OVERHEAD METAL GARAGE DOOR W/ OPENER	1
7	3'0" x 8'0"	CASED OPENING	2
8	2'0" x 8'0"	INTERIOR HORIZONTAL 6 PANEL H.C. MASONITE DOOR	1
9	2'0" x 6'8"	INTERIOR HORIZONTAL 6 PANEL H.C. MASONITE DOOR	1
10	2'4" x 6'8"	INTERIOR HORIZONTAL 6 PANEL H.C. MASONITE DOOR	5
11	2'8" x 6'8"	INTERIOR HORIZONTAL 6 PANEL H.C. MASONITE DOOR	5
12	3'0" x 6'8"	INTERIOR HORIZONTAL 6 PANEL H.C. MASONITE DOOR	3
13	DBL 1'6" x 6'8"	INTERIOR HORIZONTAL 6 PANEL H.C. MASONITE DOORS	1 PAIR
14	DBL 2'4" x 6'8"	INTERIOR HORIZONTAL 6 PANEL H.C. MASONITE DOORS	2 PAIR

GENERAL NOTES:

- ALL KITCHEN AND UTILITY COUNTERTOPS ARE SHOWN AS 2'-0" WIDE UNLESS STATED OTHERWISE.
- ALL BATHROOM LAVATORY COUNTERTOPS SHOWN AS 1'-10" WIDE.
- ALL EXTERIOR OVERALL DIMENSIONS ARE FROM EDGE OF FOUNDATION.
- ALL INTERIOR DIMENSIONS ARE FROM STUD FACE TO STUD FACE.
- ALL INTERIOR WALL THICKNESS SHOWN AS 4" UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE COMMENCING WORK.
- BRICK VENEER WALL TIES (MAX 24" O.C. EACH WAY)
- PURCHASER OF THIS PLAN ASSUMES LIABILITY FOR ANY MODIFICATIONS MADE TO THE LAYOUT OF THIS PLAN.
- ALL WOOD FRAMING SHALL BE NO. 2 GRADE - SOUTHERN PINE LUMBER. ALL CEILING JOISTS SPANS ARE BASED ON TABLE R301.4(2) OF THE IRC 2015 AND ARE DESIGNED FOR ATTIC'S WITH LIMITED STORAGE. (REFER TO FOUNDATION SHEET FOR SPANS)
- RE: SEC. 308 GLAZING IN HAZARDOUS LOCATIONS 4 TEMPERED GLASS FOR WINDOWS THAT ARE WITHIN 24" OF THE DOOR IN THE CLOSED POSITION, PROVIDING THE WINDOW IS LESS THAN 60" ABOVE THE FLOOR. (R308 I.R.C. 2015)
- MASONRY VENEER SHALL BE ANCHORED TO THE SUPPORTING WALL WITH CORROSION-RESISTANT METAL TIES SPACED NOT MORE THAN 24" ON CENTER HORIZONTALLY AND VERTICALLY AND SHALL SUPPORT NOT MORE THAN 2.61 SQ. FEET OF WALL PER SECTION R103.14.1
- VENT HOOD IN KITCHEN MUST VENT TO THE OUTSIDE. MICROVAPE HOODS MUST VENT TO THE OUTSIDE WHERE APPLICABLE.
- DRYER VENT MUST HAVE MAX LENGTH 25'
- ATTIC SPACES MUST PROVIDE 1 SQ. FT. VENTILATION PER 150 SQ. FT. OF AREA UNLESS CONDITIONED SPACE. (ATTIC'S R306)

GARAGE PORTAL DETAIL
NOT TO SCALE



PROTECTION AGAINST TERMITES:

- SUBTERRANEAN TERMITE CONTROL. IN AREAS FAVORABLE TO TERMITE DAMAGE METHODS OF PROTECTION SHALL BE BY CHEMICAL SOIL TREATMENT, PRESSURE-TREATED WOOD, NATURALLY TERMITE RESISTANT WOOD OR PHYSICAL BARRIERS (SUCH AS METAL OR PLASTIC TERMITE SHIELDS), OR ANY COMBINATION OF THESE METHODS.
- CHEMICAL SOIL TREATMENT. THE CONCENTRATION, RATE OF APPLICATION AND TREATMENT METHOD OF THE TERMITICIDE LABEL.
- PRESSURE-TREATED AND NATURALLY RESISTANT WOOD. HEARTWOOD OF REDWOOD AND EASTERN RED CEDAR SHALL BE CONSIDERED TERMITE RESISTANT. PRESSURE-TREATED WOOD AND NATURALLY TERMITE RESISTANT WOOD SHALL NOT BE USED AS A PHYSICAL BARRIER UNLESS A BARRIER CAN BE INSPECTED FOR ANY TERMITE SHELTER TUBES AROUND THE INSIDE AND OUTSIDE EDGES AND JOINTS OF A BARRIER.
- FIELD TREATMENT. FIELD CUT ENDS, NOTCHES, AND DRILLED HOLES OF PRESSURE-TREATED WOOD SHALL BE RETREATED IN THE FIELD ACCORDING TO AWPFA M4.

GENERAL MATERIALS:

- EXTERIOR WALLS:
 - BRICK VENEER
 - REINFORCED CEMENTITIOUS SIDING
 - TYPICAL BUILDING WRAP
 - 1/2" O.S.B. SHEATHING
 - R-13 BATT INSULATION
 - 2X4 STUDS @ 1'-4" O.C.
 - 1/2" GYPSUM BOARD INTERIOR
- INTERIOR WALLS:
 - 2X4 STUDS @ 1'-4" O.C.
 - 1/2" GYPSUM BOARD ON BOTH SIDES
- CEILING:
 - 2X JOISTS @ 1'-4" O.C.
 - R-8 INSULATION
 - 1/2" GYPSUM BOARD
- ROOF SYSTEM:
 - 30 YEAR FIBERGLASS SHINGLES
 - 5/8" O.S.B. OR CDX PLYWOOD
 - STANDING SEAM METAL ROOF
 - 5" FELT
 - 2X6 RAFTERS @ 2'0" O.C.

NOTE: ALL ROOFING PRODUCTS, MATERIALS AND INSTALLATION, SHALL COMPLY WITH THE REQUIREMENTS UNLESS CHANGED BY GENERAL CONTRACTOR AT OWN DISCRETION.

WIND ZONE NOTES

- VERIFY WINDOW CODE REQUIREMENTS AT EACH BUILDING LOCATION, AND INSTALL WINDOWS AS PER CODE. REQUIREMENTS WILL VARY FROM DOUBLE INSULATED VINYL TO IMPACT RESISTANT DOUBLE INSULATED VINYL WINDOWS.
- ALL WINDOWS SHALL COMPLY WITH THE GOVERNING IRC/IBC. WINDOWS SHALL BE SELECTED BASED UPON THE COMPONENT AND CLADDING DESIGN PRESSURES.
- CONTRACTOR RESPONSIBLE FOR ANCHORAGE OF BOTTOM PLATE AND WALL STUDS TO FOUNDATION IN COMPLIANCE WITH THE GOVERNING EDITION OF IRC/IBC 1609.

HEADER SPANS FOR LOAD BEARING WALLS:

- SINGLE STORY:
- 2 PLY 2"x6" 4'-2" MAX
 - 2 PLY 2"x8" 5'-4" MAX
 - 2 PLY 2"x10" 7'-6" MAX
- 2 STORY:
- 2 PLY 2"x6" 3'X1" MAX
 - 2 PLY 2"x8" 4'X6" MAX
 - 2 PLY 2"x10" 6'X2" MAX
- 2 PLY 2X6 HEADERS FOR ALL NON-LOAD BEARING WALLS
- OSB BETWEEN ALL HEADER PLIES
- NO BOXED HEADERS

NOTE:
ROOF OVERHANG ON NEW CONSTRUCTION TYPICAL 18" FROM FACE OF STUD UNLESS OTHERWISE NOTED.

GENERAL CONTRACTOR TO PROVIDE ADEQUATE ROOF VENTILATION BUILDING SYSTEMS PER IRC CODE (SECTION R306). SYSTEMS TO BE USED TO MEET ROOF VENTILATION REQUIREMENTS ARE AS FOLLOWS: CONTINUOUS RIDGE VENTS, POWER VENTS, BOX VENTS, AND GABLE/DORMER VENTS WHEN APPROVED BY OWNER.

SOFFIT VENTS TO BE USED ONLY IN ACCORDANCE W/ IRC CODE (SECTION R302 AND TABLE R302.1) TO ACCOMMODATE APPROPRIATE FIRE SEPARATION DISTANCES.

REFER TO IRC R302.5 (1) AND (2) FOR ADDITIONAL HEADER AND GIRDER SPANS

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

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DATE: MAY 7, 2021

DRAWN BY: Steven Madden

DESIGNED BY: Steven Madden

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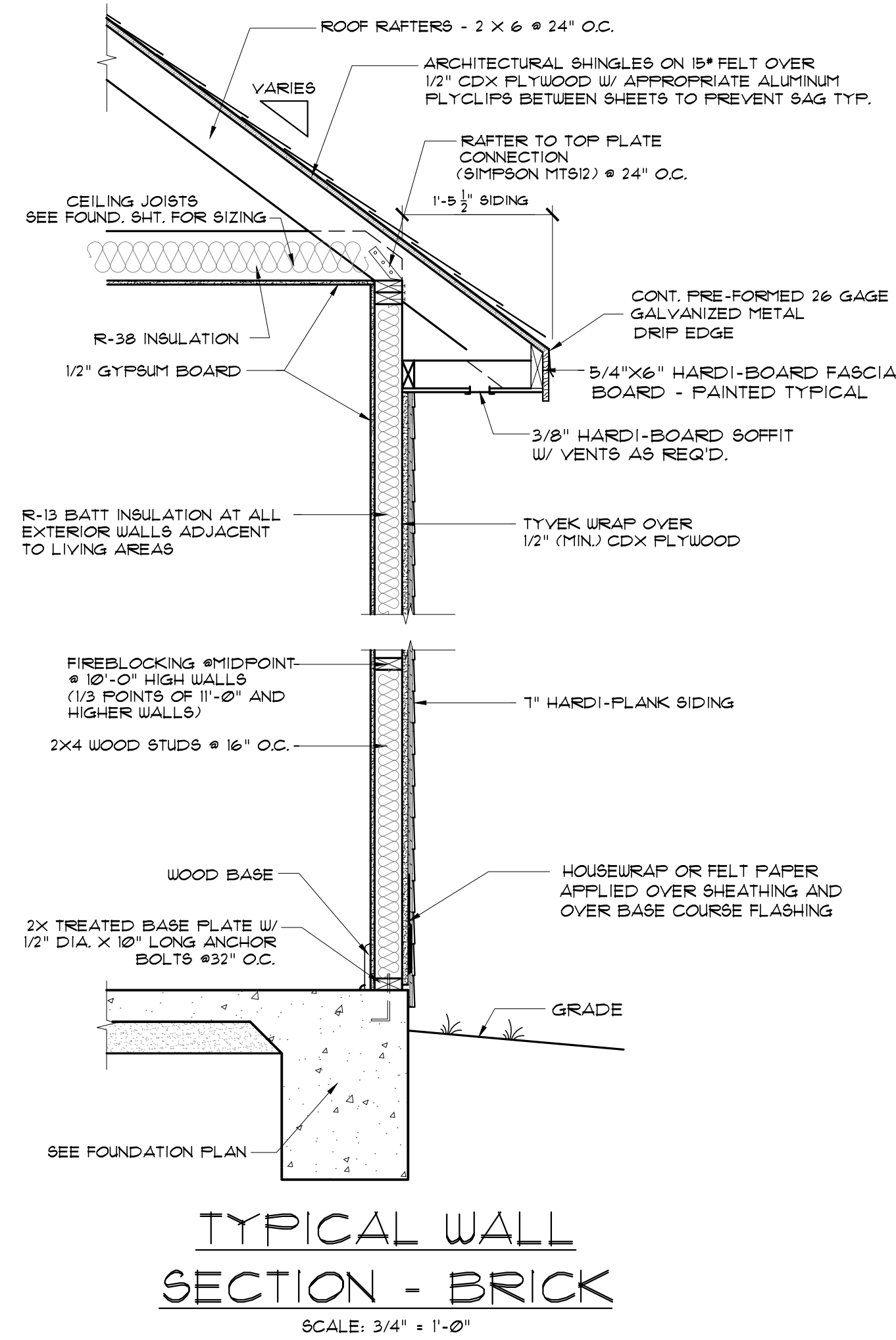
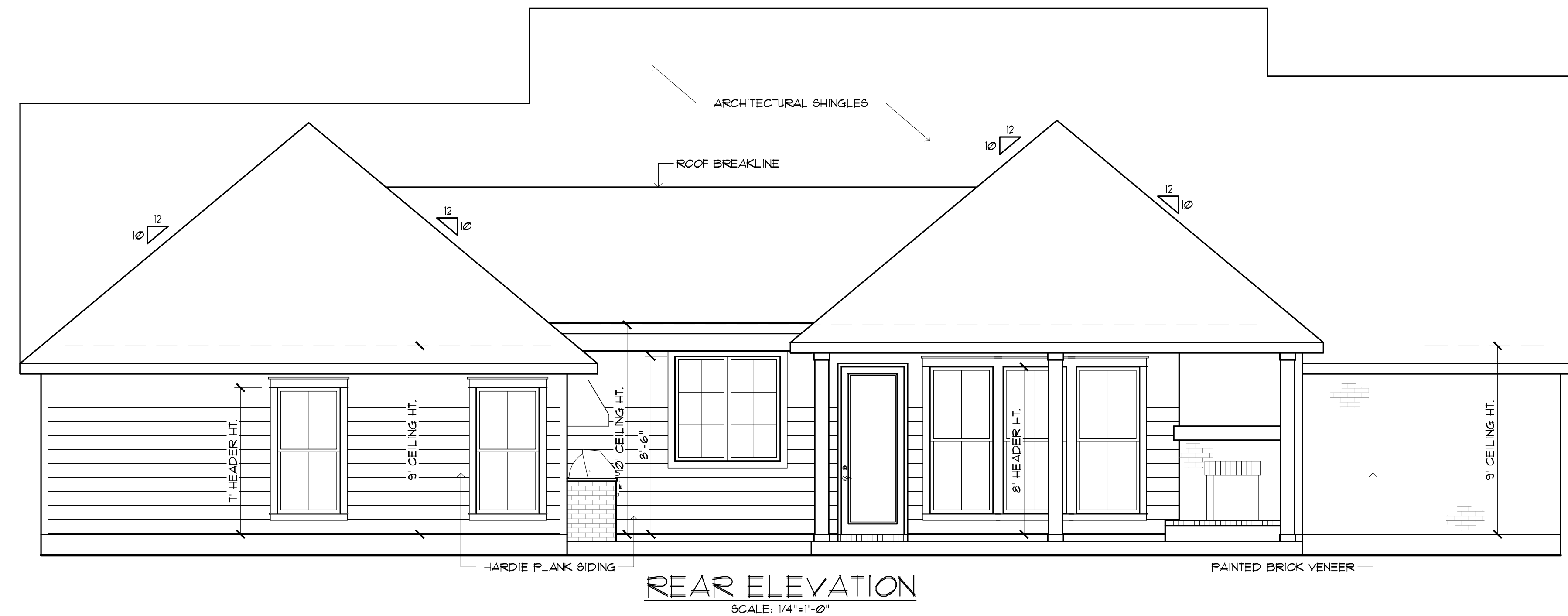
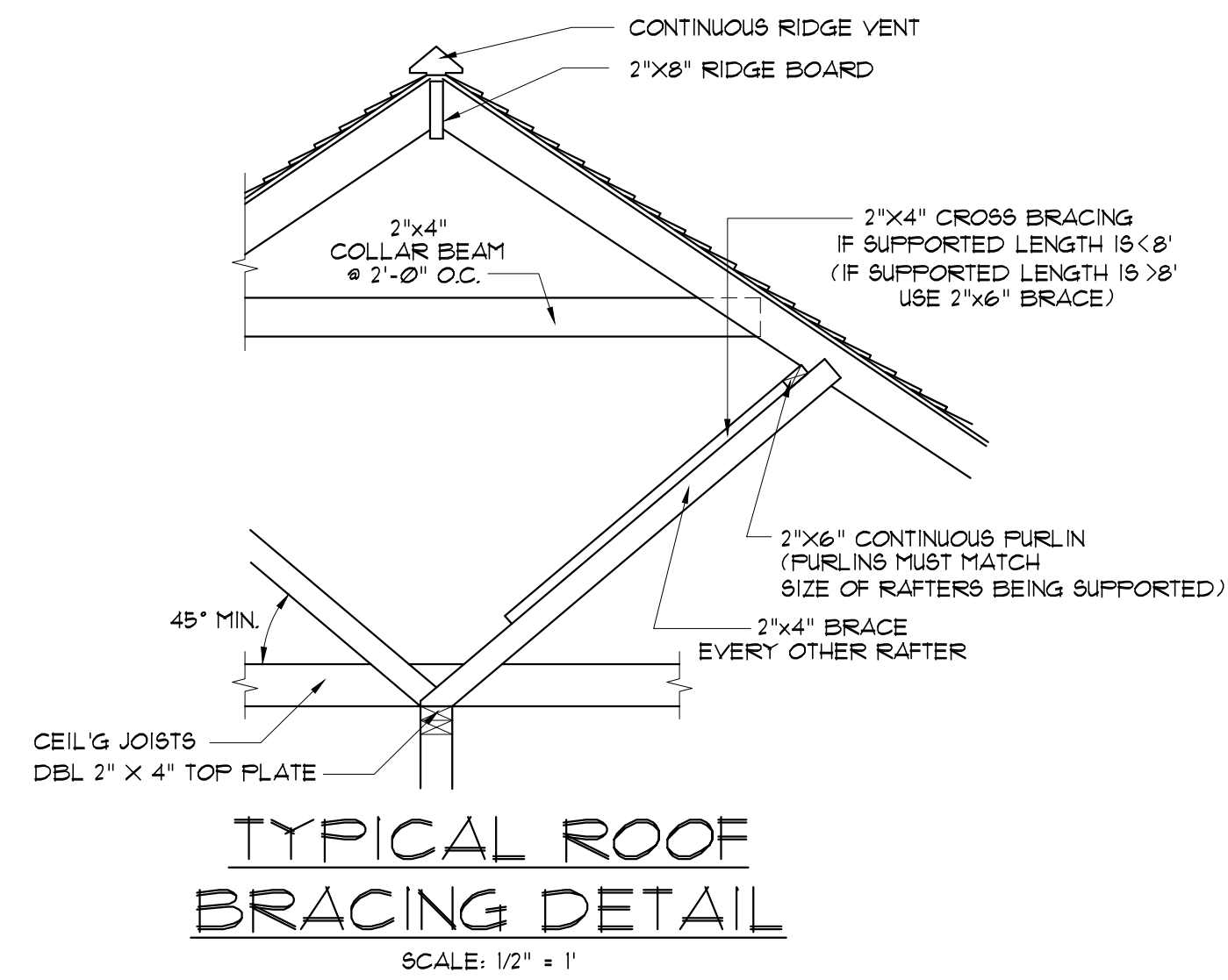
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FLOOR PLAN

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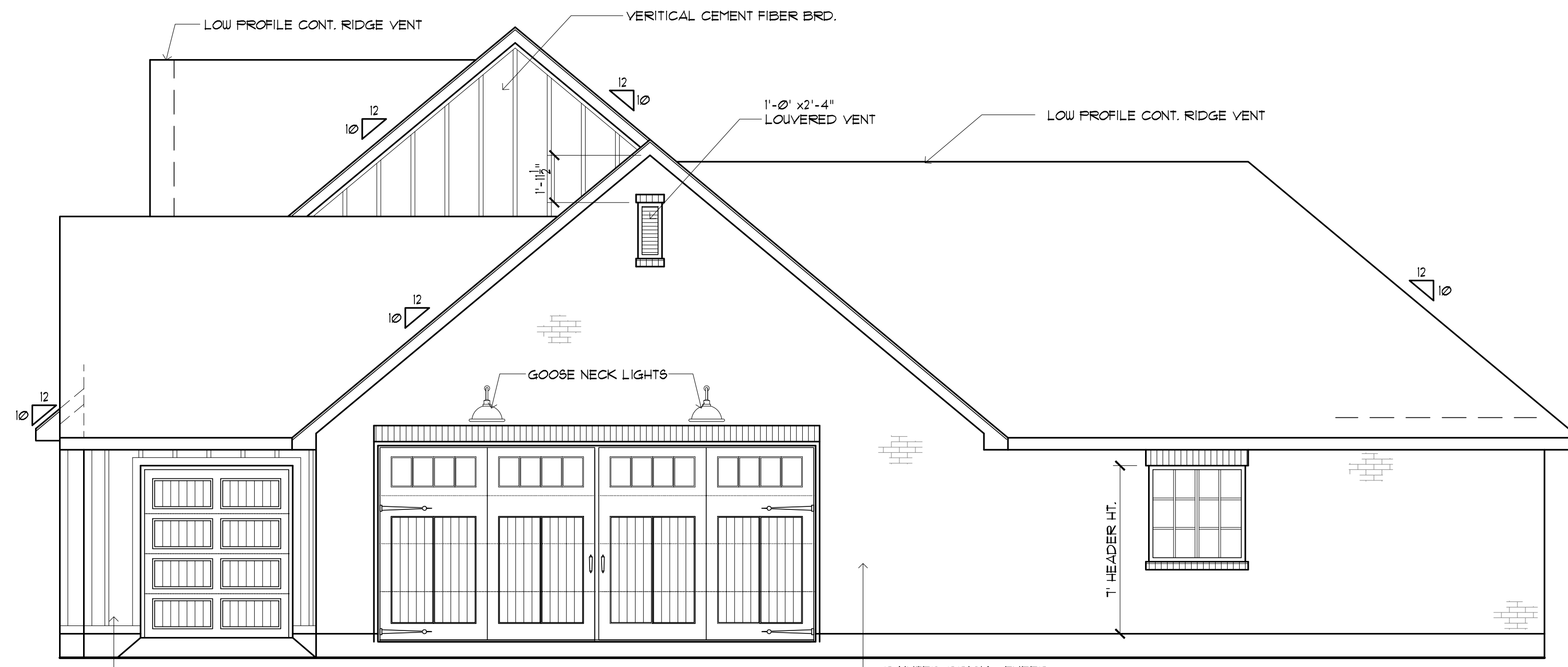
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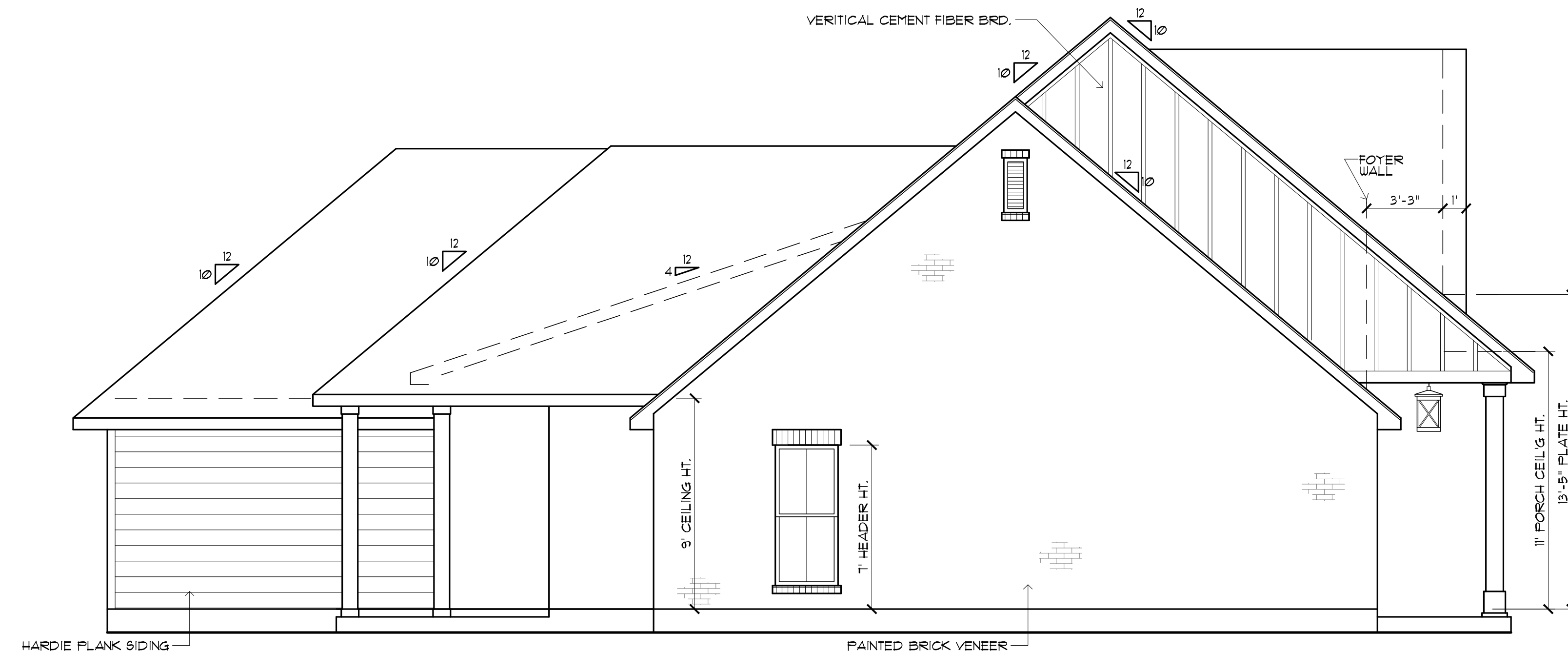
FRONT & REAR ELEVATIONS

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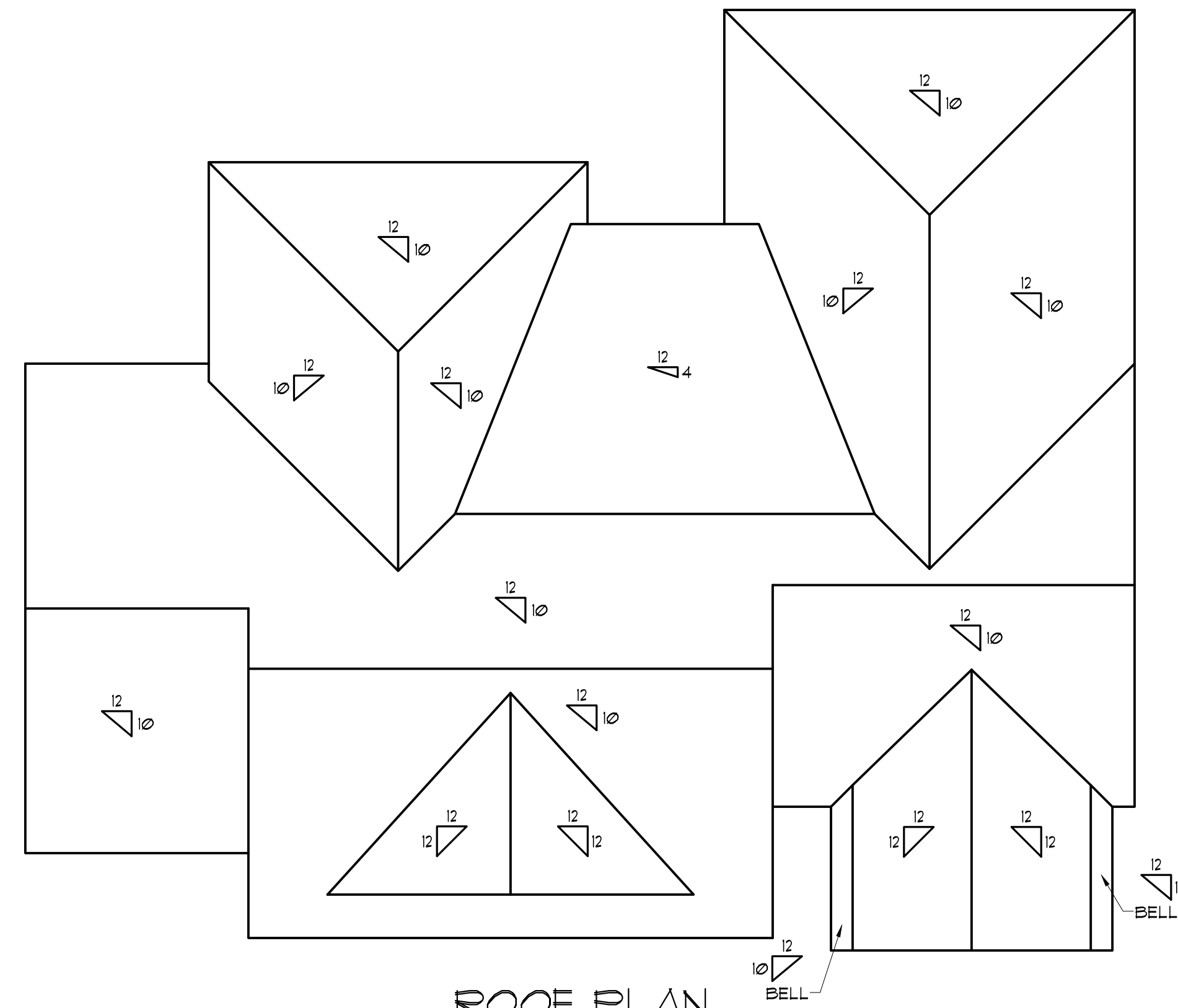
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RIGHT SIDE ELEVATION
SCALE: 1/4"=1'-0"



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



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

TRUSS ROOF

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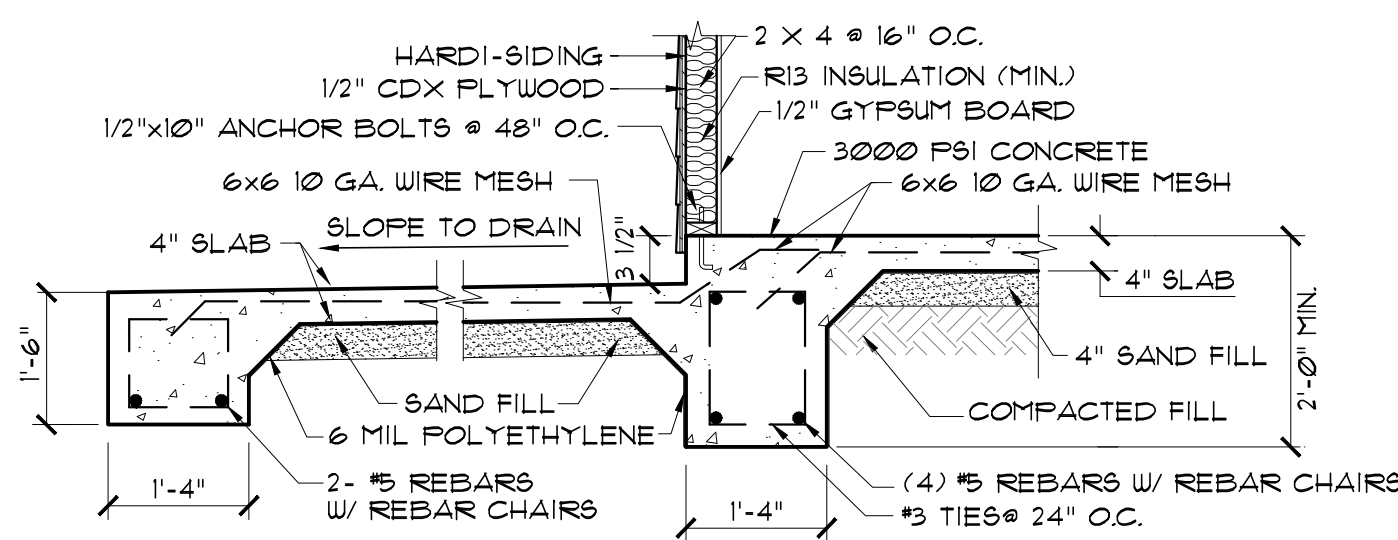
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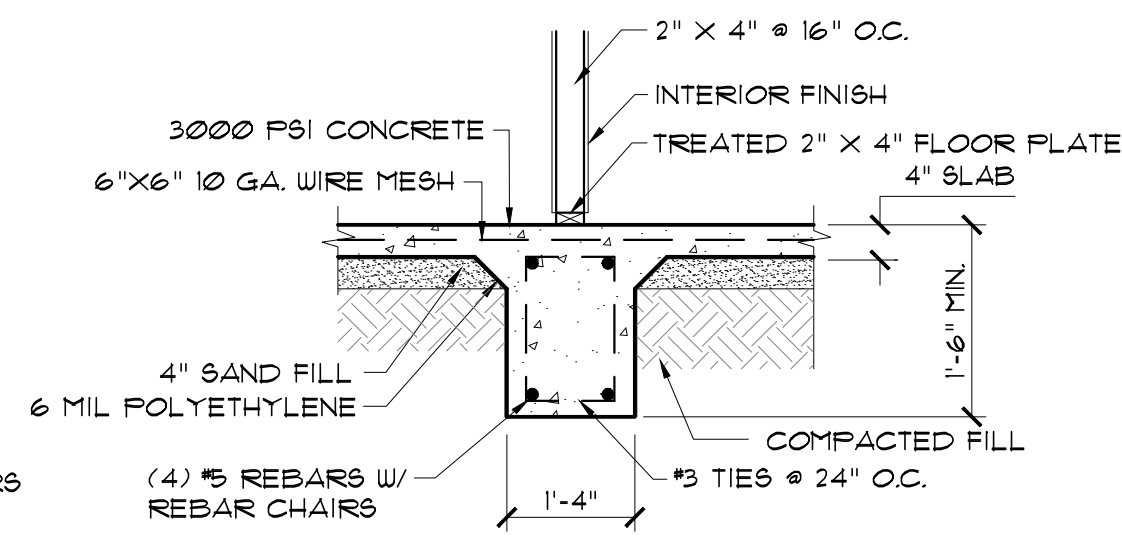
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ELEVATIONS & ROOF PLAN

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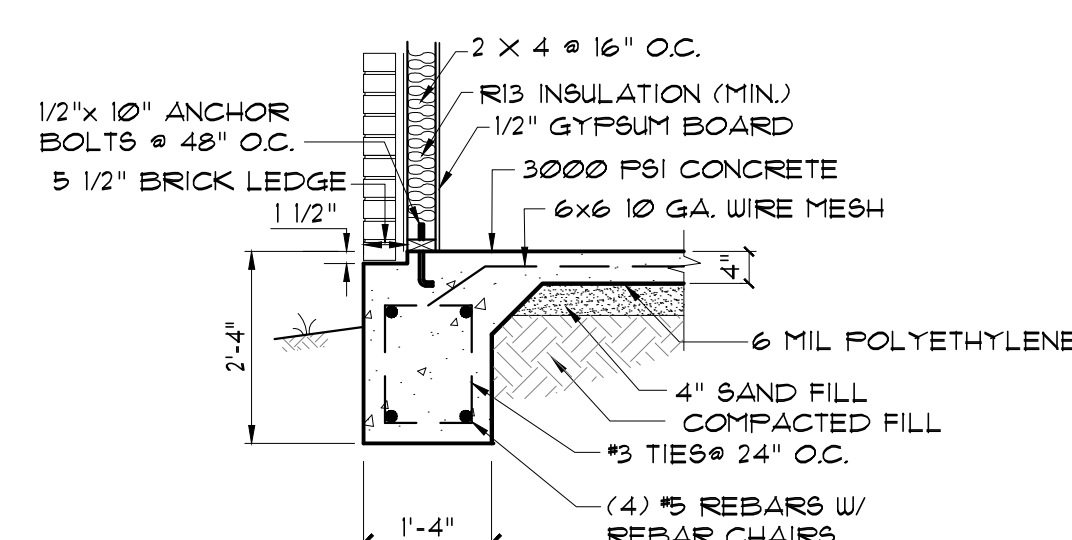
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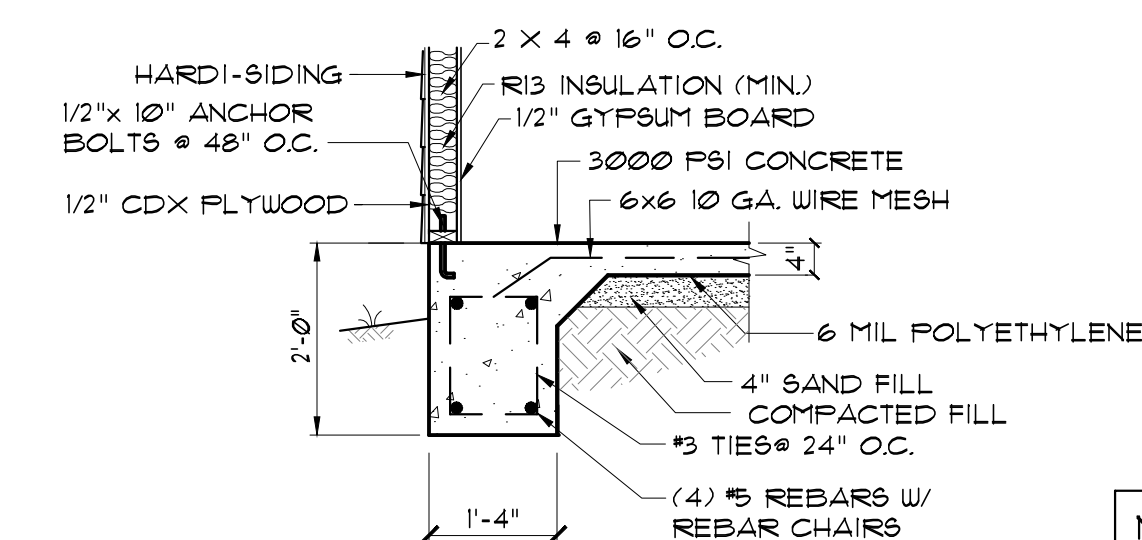
1 COVERED PORCH FOOTING
SCALE: 1/2" = 1'
SIDING EXT. WALL



2 INTERIOR GRADE BEAM
SCALE: 1/2" = 1'



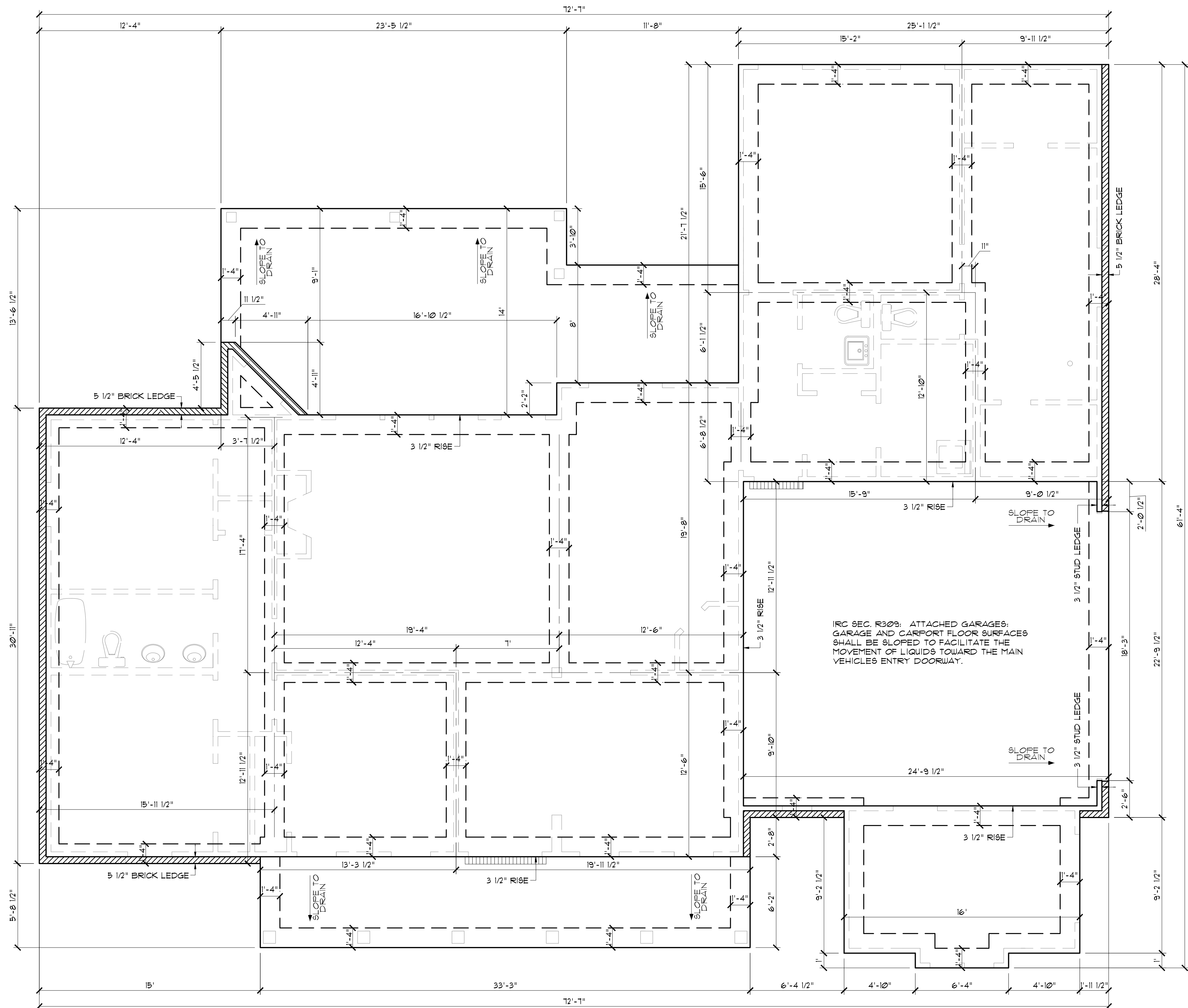
3 BRICK EXTERIOR GRADE BEAM
SCALE: 1/2" = 1'



4 HARDI EXTERIOR GRADE BEAM
SCALE: 1/2" = 1'

NOTE:
ALL EXTERIOR GRADE BEAMS TO EXTEND BELOW UNDISTURBED SOIL A MINIMUM OF 12".

NOTE:
THIS GENERIC FOUNDATION PLAN IS DESIGNED FOR NON EXPANSIVE SOILS WITH A BEARING CAPACITY OF AT LEAST 2500 PSF. MADDEN HOME DESIGN IS NOT AN ENGINEER AND RECOMMENDS THAT A PROFESSIONAL ENGINEER BE CONSULTED FOR YOUR SPECIFIC LOT AS THE DESIGNER HAS NOT BEEN PROVIDED ANY INFORMATION BY THE CLIENT REGARDING THE BEARING CAPACITY OF THE SOILS FOR THIS LOT AND ASSUMES NO RESPONSIBILITY FOR THE STRUCTURAL PERFORMANCE OF THIS DESIGN.



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

CONCRETE NOTES:

- REFER TO BUILDING PLANS FOR DOOR OPENINGS AND EXACT DIMENSIONS.
- USE CONCRETE BRICK SUPPORTS TO MAINTAIN REINFORCING CLEARANCES. DO NOT USE CMU OR FACE BRICK.
- FOUNDATION DESIGN BASED ON 4-4 FILL DIRT COMPACTED TO 95% DENSITY (ASTM D-1557). FILL PLACED @ 8" MAX. LIFTS.
- ALL CONCRETE SHALL DEVELOP 3000 PSI COMPRESSIVE STRENGTH @ 28 DAYS. PLACE CONCRETE W/ MAXIMUM SLUMP OF 6". PROVIDE SLUMP TEST AND CYLINDERS AT BEGINNING AND MIDPOINT OF POUR.
- GRADE 40 DEFORMED REINFORCING.
- ASTM-105 WUF REINFORCING.
- APPLY A LIQUID MEMBRANE CURING CHEMICAL TO ALL CONCRETE SURFACES IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. W.R. GRACE PRODUCT OR EQUAL.
- CONTRACTOR SHALL COORDINATE ALL DOOR LOCATIONS AND OMIT NOTCHES ACCORDINGLY.
- 2" CLEARANCE FOR REBAR SIDES AND BOTTOM.
- MINIMUM SLAB THICKNESS SHALL BE 4" ON HOUSE AND ANY SIDEWALKS INCLUDING DRIVEWAY.
- FINISH GRADE TO SLOPE AWAY FROM THE HOUSE.
- REFER TO ELECTRICAL PLAN FOR IN-SLAB WIRING AND OUTLET REQUIREMENTS.
- CONTRACTOR SHALL EXCAVATE ALL FOOTINGS TO SOLID, UNDISTURBED SOIL.
- SLABS AND FOOTINGS SHALL BE PLACED MONOLITHICALLY IN A CONTINUOUS POUR. CONSTRUCTION JOINTS FOR THE PURPOSE OF POUR INTERRUPTION SHALL NOT BE ALLOWED WITHOUT PRIOR APPROVAL BY THE OWNER.
- ALL DRIVEWAY POURS SHALL HAVE THE PROPER CONSTRUCTION AND CONTROL JOINTS AT A DISTANCE NO GREATER THAN 15' WITH A JOINT DOWN THE CENTER. RADIUS BENDS SHALL HAVE A CONTROL JOINT AT THE CENTER OF THEM.

SITE PREPARATION NOTES:

- REMOVE TOP SOIL (8" TO 12") AND DELETERIOUS MATERIAL.
- PROOF ROLL SUBBASE WITH A LOADED 18 YARD DUMP TRUCK. REMOVE ALL "PUMPING AREAS."

FOUNDATION AND SITE WORK NOTES:

- CHECK ELECTRICAL PLAN FOR ANY CONDUIT OR FLOOR RECEPTACLES.
- TERMITE TREAT THE SOIL PRIOR TO POURING CONCRETE AND RETAIN CERTIFICATE FOR OWNER.
- GRADE LOT TO DRAIN AWAY FROM THE FOUNDATION A MINIMUM OF 6 INCHES IN THE FIRST 10 FEET.
- CARPORT AND FRONT PORCH BEAMS ARE NOT SHOWN FOR CLARITY PURPOSES.
- CONTRACTOR SHALL EXCAVATE ALL FOOTINGS TO SOLID, COMPACTED, UNDISTURBED FILL MEETING 90% MODIFIED PROCTOR AS TESTED.
- ALL WELDED WIRE FABRIC SHALL BE 6x6 10/10 WUF.
- POLYETHYLENE VAPOR BARRIER SHALL BE 6 MIL THICKNESS.

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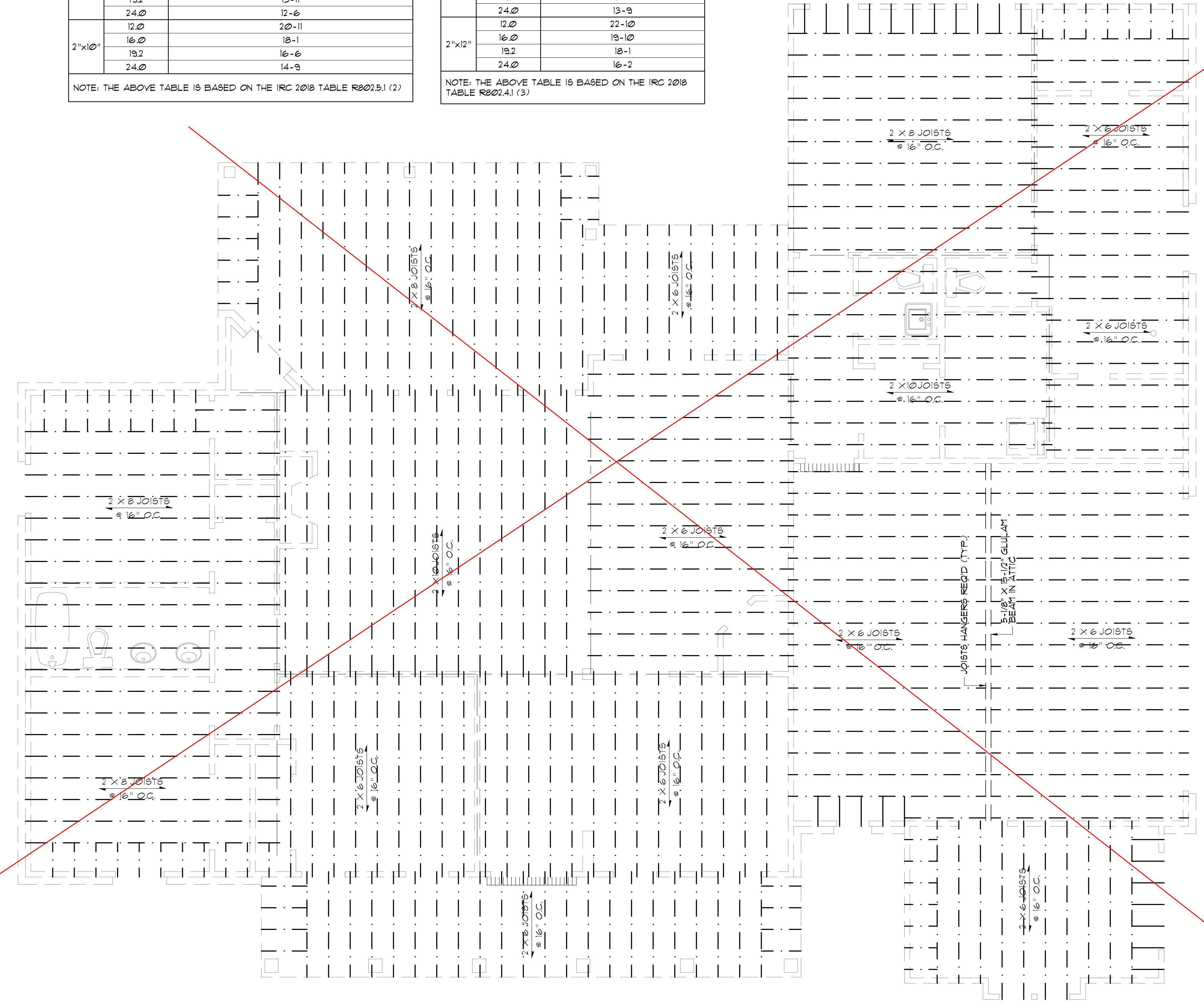
CEILING JOIST SPANS		
CEILING JOIST SPANS FOR SOUTHERN PINE SPECIES (INHABITABLE ATTIC WITHOUT STORAGE, LIVE LOAD = 20 PSF, L _d = 240) DEAD LOAD = 10 PSF		
**IF HABITABLE ATTIC SPACE OR STORAGE IS DESIRED, REFER TO INTERNATIONAL RESIDENTIAL CODE SPAN TABLES		
SIZE	SPACING (INCHES)	VISUALLY GRADED #2 SOUTHERN PINE (MAXIMUM CEILING JOIST SPAN) (FT.-IN.)
2"x4"	12.0	9-3
	16.0	8-0
	19.2	7-4
2"x6"	24.0	6-7
	12.0	13-11
	16.0	12-0
2"x8"	19.2	11-0
	24.0	9-10
	12.0	17-1
2"x10"	16.0	15-3
	19.2	13-11
	24.0	12-6
2"x12"	12.0	20-11
	16.0	18-1
	19.2	16-6
	24.0	14-9

NOTE: THE ABOVE TABLE IS BASED ON THE IRC 2018 TABLE R502.5.1 (2)

RAFTER SPANS		
RAFTER SPANS FOR SOUTHERN PINE SPECIES (LIVE LOAD = 20 PSF, L _d = 240) DEAD LOAD = 10 PSF		
SIZE	SPACING (INCHES)	SPANS (MAXIMUM RAFTER SPANS BETWEEN BRACING) (FT.-IN.)
2"x6"	12.0	12-11
	16.0	11-2
	19.2	10-2
2"x8"	24.0	9-2
	12.0	16-4
	16.0	14-2
2"x10"	19.2	12-11
	24.0	11-7
	12.0	19-5
2"x12"	16.0	16-10
	19.2	15-4
	24.0	13-9
2"x10"	12.0	22-10
	16.0	19-10
	19.2	18-1
	24.0	16-2

NOTE: THE ABOVE TABLE IS BASED ON THE IRC 2018 TABLE R502.4.1 (3)

TRUSS ROOF



JOISTS FRAMING PLAN
SCALE: 1/4" = 1'-0"

GENERAL FRAMING NOTES:
THE FOLLOWING NOTES ARE SUGGESTED MINIMUM REQUIREMENTS ONLY. DUE TO A VARIANCE OF CODES PER REGION, PLEASE REFER AND COMPLY WITH ALL YOUR LOCAL CODES. CONSULT WITH LOCAL ENGINEERS FOR ALL STRUCTURAL REQUIREMENTS.

1. PROVIDE FURLINS AT MID HEIGHT OF ALL WALLS.
2. ALL JOIST AND RAFTERS SHALL BE ALIGNED OVER STUDS BELOW.
3. ALL HEADERS SHALL BE 2-2X10'S WITH 1" PLYWOOD FLITCH PLATE UNLESS OTHERWISE NOTED.
4. PROVIDE 1X4 CROSS BRACING AT MIDPOINT OF SPAN OR 8'-0" O.C. MAXIMUM IN ALL FLOORS.
5. ALL EXTERIOR CORNERS (INSIDE AND OUTSIDE CORNERS) SHALL BE BRACED WITH 1" CDX PLYWOOD. NAILING SCHEDULE SHALL BE 8D COMMONS AT 4" O.C. AT ALL EDGES AND 9D COMMONS AT 12" O.C. AT ALL INTERMEDIATE STUDS. (OPTION-APPROVED DIAGONAL CORNER BRACES BOTH DIRECTIONS AT ALL CORNERS).
6. ALL COLUMNS OR SOLID FRAMES SHALL EXTEND DOWN THRU ALL LEVELS AND TERMINATE AT THE BOTTOM FLOOR AND BE SUPPORTED BY THICKENED SLAB, GRADE BEAM, OR FOOTING DESIGNED TO CARRY LOAD.
7. PROVIDE DOUBLE 2X6 STRONGBACK AT MIDSPAN FOR CEILING JOISTS WITH SPAN GREATER THAN 10'-0".
8. PROVIDE COLLAR TIES AT UPPER 1/3 OF VERTICAL DISTANCE BETWEEN RIDGE BOARD AND CEILING JOISTS AT 4'-0" O.C. MAXIMUM.
9. HIP, VALLEY RAFTERS, AND RIDGE BOARDS SHALL BE ONE "2X" SIZE LARGER THAN RAFTERS.
10. ROOF DECKING SHALL BE 1/2" CDX PLYWOOD MINIMUM.
11. WHERE FIRE ENGINEERED FLOOR AND ROOF TRUSSES ARE USED, TRUSS MANUFACTURER MUST PROVIDE SHOP DRAWINGS WHICH BEAR SEAL OF REGISTERED ENGINEER IN STATE IN WHICH WORK IS TO BE PERFORMED.
12. ALL SOLID FRAMING, COLUMNS, BEAMS, ETC. TO BE DESIGNED BY LOCAL STRUCTURAL ENGINEER AND MEET ALL LOCAL CALLS.
13. ALL FRAMED WALL DIMENSIONS ARE BASED ON 2X4 STUDS UNLESS OTHERWISE NOTED.
14. COLUMNS SHALL BE ADEQUATELY ANCHORED TO SLAB TO PREVENT LATERAL DISPLACEMENT PER IRC R407.3.
15. SITE-ASSEMBLED HEADERS AND GIRDERS TO BE SIZED PER IRC TABLE R502.5(1) AND (2).
16. HEADERS AND GIRDERS WHOSE SPAN EXCEEDS THOSE LISTED IN IRC TABLE R502.5(1) AND (2) ARE TO BE ENGINEERED BEAMS TO BE SIZED BY A QUALIFIED PARTY.
17. WALLS ADJACENT TO GARAGE DOOR OPENING TO BE BRACED TO THE MINIMUM LENGTHS LISTED IN IRC R602.10.3 VIA SHEATHING OR AN ALTERNATIVE METHOD OF RESISTING SHEAR AS DESIGNED BY A QUALIFIED ENGINEER.
18. ROOF AND FLOOR SHEATHING TO COMPLY WITH SPAN CHART R503.2.1(1)

MADDEN HOME DESIGN, LLC NOT BEING AN ARCHITECTURAL OR ENGINEERING FIRM SHALL NOT BE HELD RESPONSIBLE FOR ANY OCCURRENCES OR DAMAGES THAT MAY BE INCURRED. EVERY EFFORT HAS BEEN MADE TO INSURE ALL DIMENSIONS ARE CORRECT AND ENVIRONMENTAL REGULATIONS HAVE BEEN MET. IF AN ERROR OR OMISSION DOES OCCUR, IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR SUBS. THIS OFFICE HAS NO EXPENSE AND/OR OBLIGATION TO CORRECT OR RE-DESIGN. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF DIMENSIONS IN THE FIELD AND SHALL BUILD HOME IN ACCORDANCE WITH THE INTERNATIONAL RESIDENTIAL CODE 2018.

RESIDENCE OF
DYLAN KOERNER

Project

MADDEN HOME DESIGN
8375 Rushing Road
Dentham Springs, Louisiana
70726
Phone: (225) 791-2912

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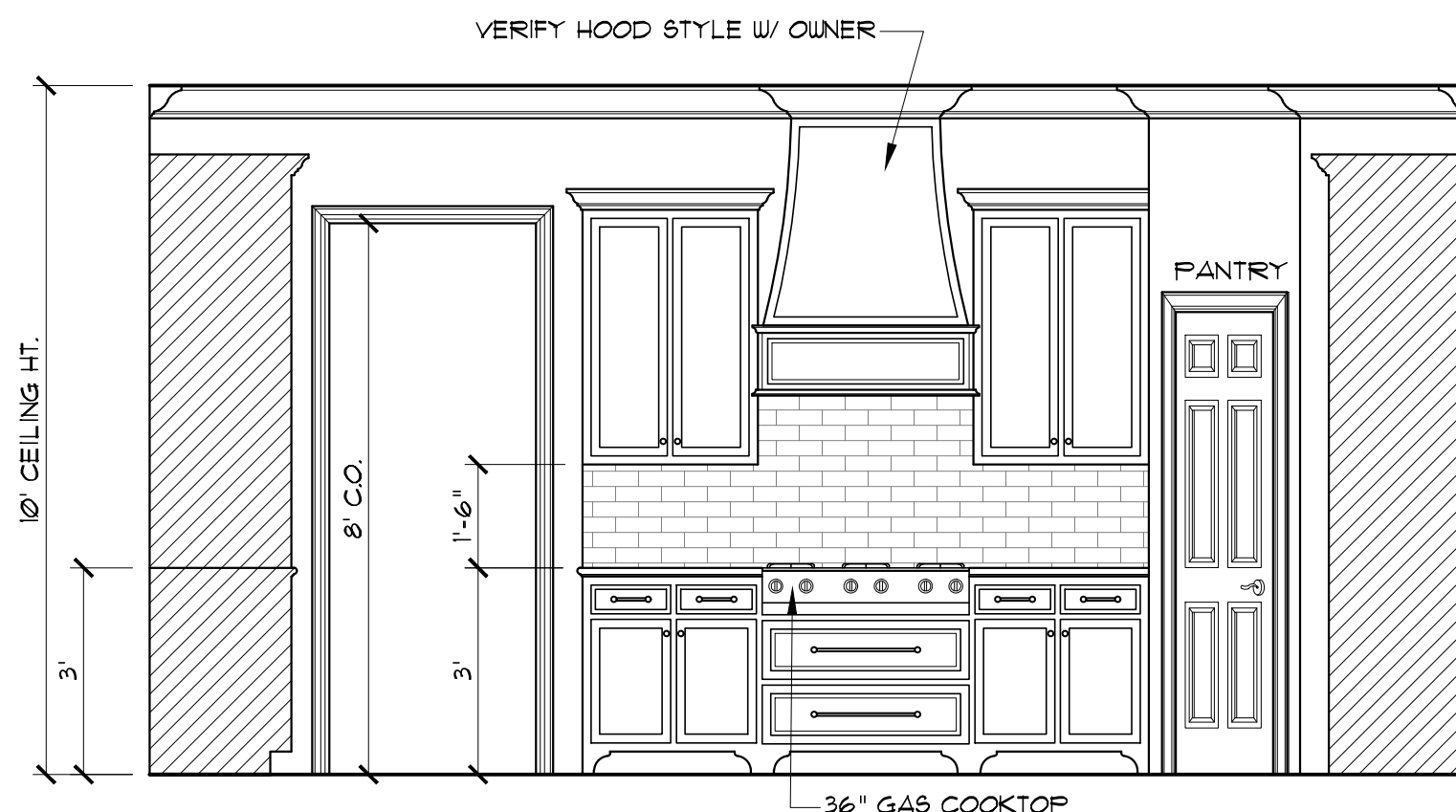
Project No.: Hickory Ridge-Mirror
DATE: MAY 7, 2021
DRAWN BY: Steven Madden
DESIGNED BY: Steven Madden

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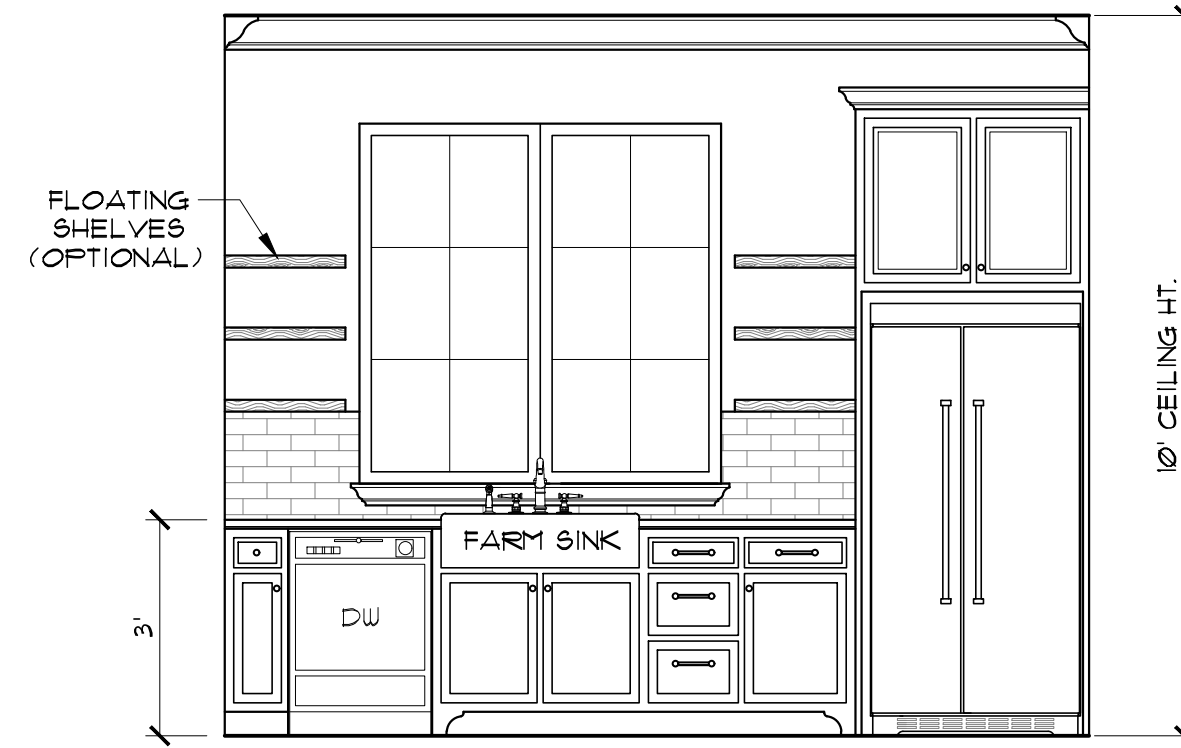
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Sheet Title
JOIST FRAMING PLAN

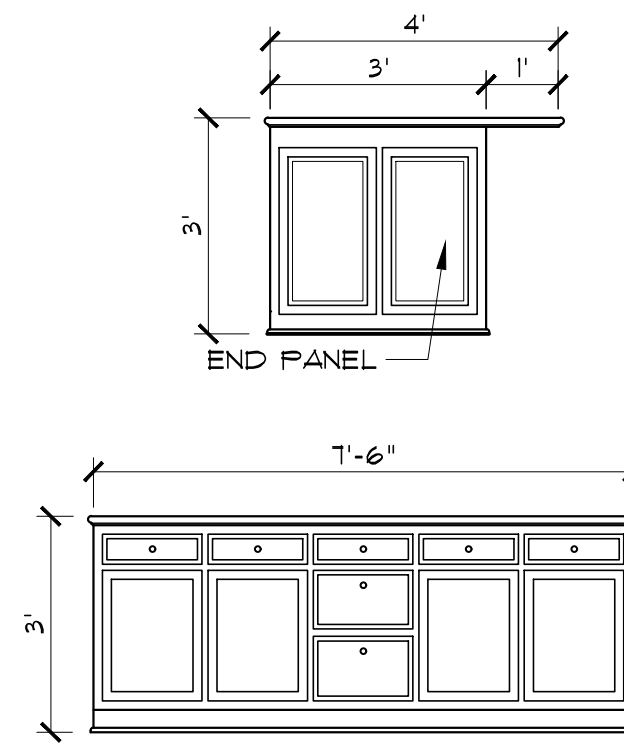
Sheet:
 Preliminary Dwg.
 Bidding Doc.
 Construction Doc.
A5.0



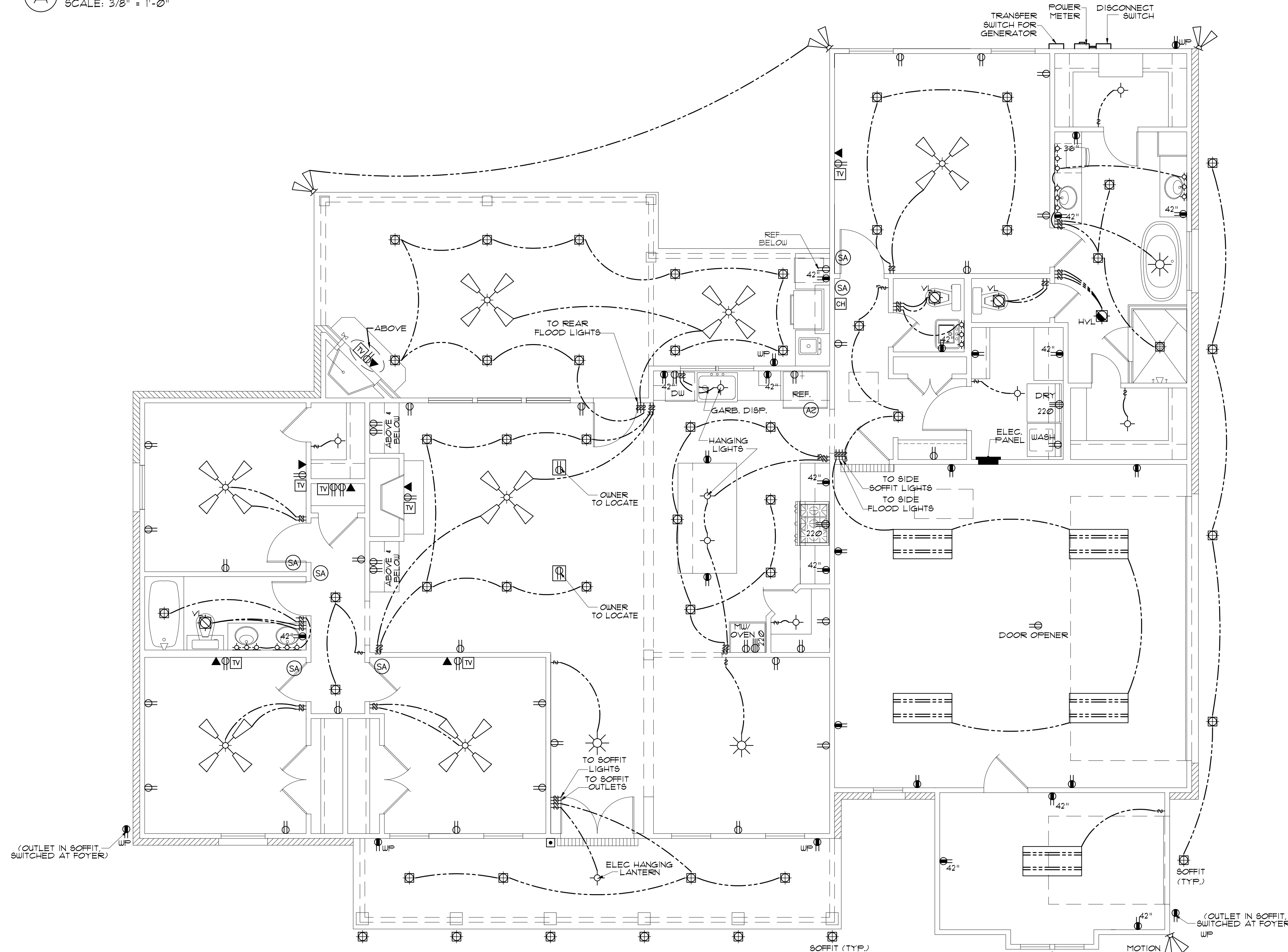
A ELEVATION
SCALE: 3/8" = 1'-0"



B ELEVATION
SCALE: 3/8" = 1'-0"



ISLAND ELEVATIONS
SCALE: 3/8" = 1'-0"



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

ELECTRICAL SYMBOL LEGEND	
TV	CABLE OUTLET
▼	TELEPHONE/ ETHERNET OUTLET
⊕	RECEPTACLE, 15A, 125V, 2 POLE 3 WIRE, GROUNDING, DUPLEX
⊕	FLOOR DUPLEX RECEPTACLE
⊕	GROUND-FAULT-CIRCUIT-INTERLIFT RECEPTACLE-USE SQUARE D QUICK GUARD FOR WP LOCATIONS
⊕	RECEPTACLE, 50A, 220V, 2 POLE 3 WIRE, GROUNDING
⊕	TOGGLE SWITCH, SINGLE POLE, 15A
⊕	TOGGLE SWITCH, 3 WAY, 15A
⊕	ELEC. DOOR BELL
CH	DOORBELL CHIME
⊕	DIMMER SWITCH
⊕	LIGHT FIXTURE, INCANDESCENT CEILING MOUNTED
⊕	LIGHT FIXTURE, INCANDESCENT EXTERIOR FLOODS
⊕	CEILING FAN W/ LIGHT - PROVIDE SEPERATE SWITCHES FOR F & L
⊕	LIGHT FIXTURE - CHANDELIER W/ INCANDESCENT BULBS
⊕	LED RECESSED LIGHT
⊕	LIGHT FIXTURE - FLOURESCENT
SA	SMOKE ALARM - 110V ELEC. W/ CARBON MONOXIDE DETECTOR
⊕	VANITY LIGHT
⊕	VENT/LIGHT RECESSED CAN
⊕	HEAT/VENT/LIGHT
⊕	VENT/LIGHT ONLY
⊕	SCONCE LIGHT
⊕	ELECTRIC LANTERN

PRE-WIRE FOR THE FOLLOWING:

- TELEPHONE (ONE INCOMING LINE)
- CABLE VISION (ONE OUTLET PER ROOM MINIMUM)
- SECURITY SYSTEM - COORDINATE W/ OWNER
- COORDINATE ELECTRICAL SYSTEM WITH MECHANICAL CONTRACTOR
- ALL WIRING TO BE COPPER MIN. 12/2 W/ GROUND
- VERIFY LOCATION OF FLOOR OUTLETS IN FAMILY ROOM
- PROVIDE 110V OUTLET FOR GARAGE DISPOSAL UNDER KITCHEN SINK
- PROVIDE 110V OUTLET FOR WHIRLPOOL TUB MOTOR UNDER WHIRLPOOL TUB IN MASTER BATH
- PROVIDE 220V OUTLET FOR CLOTHES DRYER
- COORDINATE SURROUND SYSTEM W/ OWNER

ELECTRICAL NOTES:

- MAIN FEED INTO HOUSE TO BE TRENCHED UNDERGROUND FROM SUPPLY POLE TO METER THEN MAIN DISCONNECT OUTSIDE.
- ALL SMOKE DETECTORS TO BE ELECTRIC POWERED WITH BATTERY BACKUP AND WIRED TO SET ALL ALARMS OFF IF ONE IS TRIPPED.
- ALL EXTERIOR, KITCHEN, AND BATH OUTLETS TO BE GROUND FAULT CIRCUIT INTERRUPT EQUIPPED AND ON A SEPARATE CIRCUIT.
- ELECTRICAL DISCONNECTS ARE TO BE AT A/C UNIT, CONDENSING UNIT, AND WATER HEATER.
- HEAT VENT LIGHTS ARE TO BE ON A SEPARATE CIRCUIT.
- OUTLETS, INCLUDING PHONE AND CABLE, MAY BE ADDED OR CHANGED UPON OWNERS REQUEST.
- ELECTRICAL CONTRACTOR TO VERIFY EQUIPMENT TYPE AND SIZE.
- INSTALL LIGHTS IN ATTIC SPACE W/ SWITCH AT FOOT OF DISP. STAIRS
- ELECTRICAL SERVICE TO BE A 42 CIRCUIT 200 AMP MAIN LOCATED IN THE UTILITY.
- A SUB-PANEL MAY NEED TO BE ADDED FOR ENOUGH CIRCUITS.
- HOUSE TO BE WIRED FOR A SECURITY SYSTEM.
- ALL KITCHEN OUTLETS ARE TO BE GFI EXCEPT APPLIANCE OUTLETS NOT EASILY ACCESSIBLE.
- ARC FAULT BREAKERS ARE TO BE USED IN ALL BEDROOMS.
- IF GAS FIRED APPLIANCES ARE USED IN HOME, CARBON MONOXIDE ALARMS ARE NEEDED (IRC R315).

MADDEN HOME DESIGN, LLC NOT BEING AN ARCHITECTURAL OR ENGINEERING FIRM. THIS PLAN IS FOR INFORMATIONAL PURPOSES ONLY. THE DESIGNER ASSUMES NO LIABILITY FOR ANY ERRORS OR OMISSIONS. EVERY EFFORT HAS BEEN MADE TO INSURE ALL DIMENSIONS ARE CORRECT AND ENVIRONMENTAL REGULATIONS HAVE BEEN MET. IF AN ERROR OR OMISSION DOES OCCUR, IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND/OR OWNER AT HIS OWN EXPENSE. MADDEN HOME DESIGN, LLC ASSUMES NO LIABILITY FOR THE CONTRACTOR'S RESPONSIBILITY FOR VERIFICATION OF DIMENSIONS IN THE FIELD AND SHALL BUILD HOME IN ACCORDANCE WITH THE INTERNATIONAL RESIDENTIAL CODE 2015.

RESIDENCE OF
DYLAN KOERNER

Project
MADDEN HOME DESIGN
8375 Rushing Road
Dentham Springs, Louisiana
70726
Phone: (225) 791-2912

A B D

Project No.: Hickory Ridge-Mirror
DATE: MAY 7, 2021
DRAWN BY: Steven Madden
DESIGNED BY: Steven Madden

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Sheet Title
ELECTRICAL PLAN

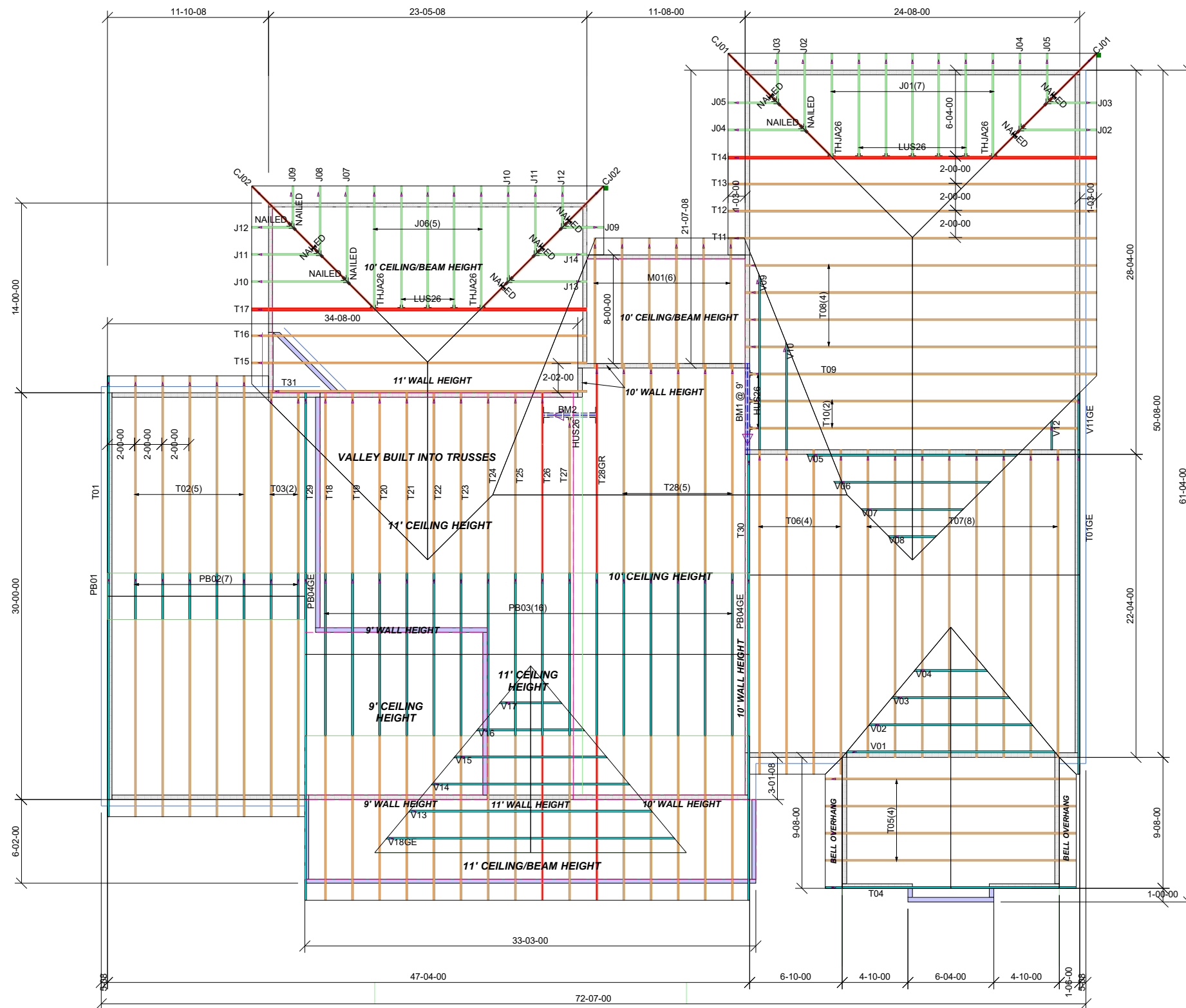
Sheet:
□ Preliminary Dwg.
□ Bidding Doc.
□ Construction Doc.
E1.0

- 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

9'0" WALL AND CEILING HEIGHT EXCEPT WHERE NOTED OTHERWISE



Connector Summary		
Qty	Manuf	Product
2	Simpson	HHUS410

Truss Connector Total List		
Manuf	Product	Qty
Simpson	HUS26	4
Simpson	LUS26	8
Simpson	THJA26	4

Products				
PlotID	Length	Product	Plies	Net Qty
BM1 @ 9'	8-00-00	1 3/4" x 9 1/4" (2.0E 3100) LVL	2	2
BM2	4-00-00	1 3/4" x 9 1/4" (2.0E 3100) LVL	2	2

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: _____

	Client:	PARKS BUILDING SUPPLY		
	Job Name:	CAIN BUILDERS-MILLER-KOERNER		
	Model:	ROOF		
	Lot #:			
	Order #:	21-3743-A	Designer:	M C
	Subdivision:			
	Sales Rep:	C Smiley		
733 RIVER PARK DRIVE DANVILLE, VA 24540 (434) 793-0217 FAX: (434) 799-8767		6/25/2021		
		Roof Surface Area: 5004 ft ² Sq. Ft. Floor Surface Area: 0 ft ² Sq. Ft.		

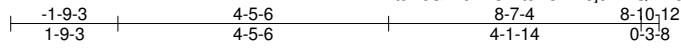


= THIS SYMBOL INDICATES THE LEFT END OF TRUSS - REFER TO SEALED TRUSS DRAWINGS TO AVOID SETTING TRUSSES BACKWARDS!

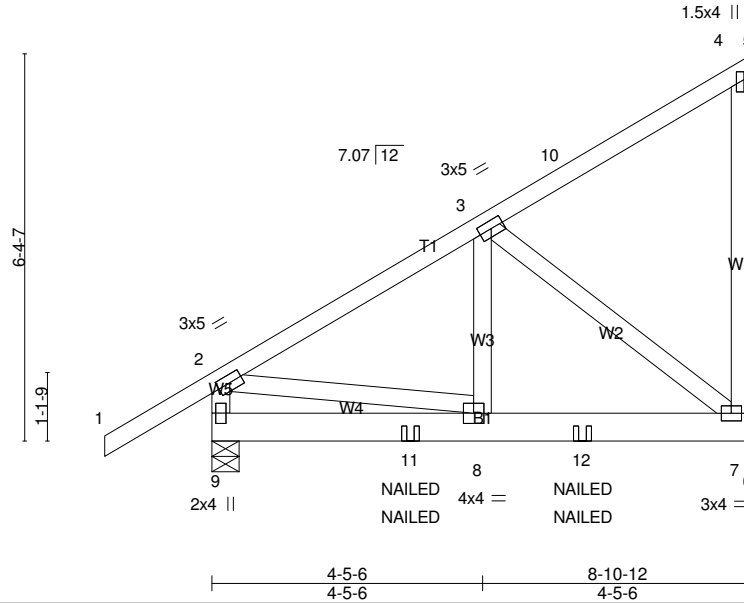
Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	CJ01	Diagonal Hip Girder	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:00 2021 Page 1
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Scale = 1:37.9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.40	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.13	Vert(LL) 0.01 7-8 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.23	Vert(CT) -0.01 7-8 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MP	Horz(CT) -0.00 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 66 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 9=519/0-5-5 (min. 0-1-8), 7=397/Mechanical
 Max Horz 9=224(LC 16)
 Max Uplift 9=-67(LC 16), 7=-180(LC 16)
 Max Grav 9=605(LC 2), 7=462(LC 52)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-9=-572/143, 2-3=-454/19
 BOT CHORD 9-11=-260/209, 8-11=-260/209, 8-12=-162/338, 7-12=-162/338
 WEBS 2-8=0/323, 3-7=-431/207

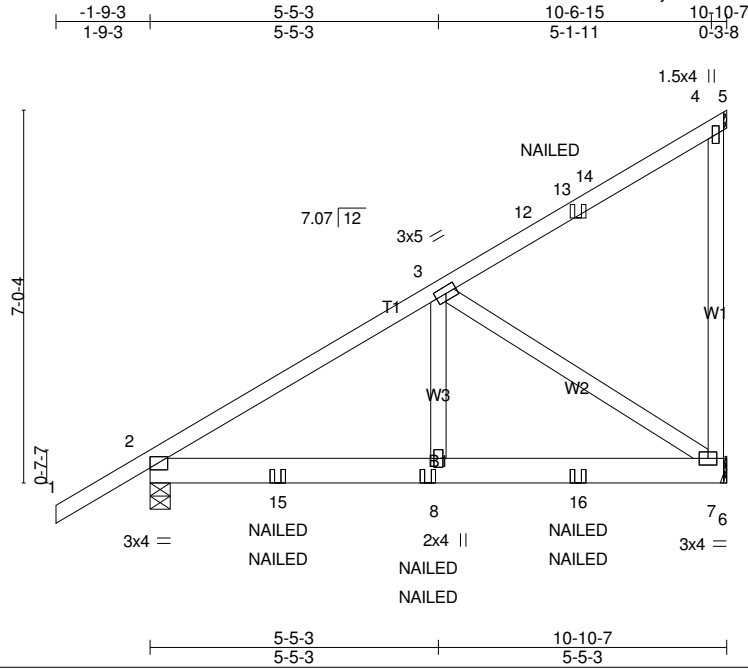
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 7=180.
 - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-66, 2-5=-66, 6-9=-20
 Concentrated Loads (lb)
 Vert: 11=1(F=1, B=1) 12=-37(F=-19, B=-19)

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	CJ02	Diagonal Hip Girder	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.77	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.31	Vert(LL) 0.02 8-11 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.55	Vert(CT) -0.03 7-8 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.01 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 70 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 5-9-2 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=682/0-4-9 (min. 0-1-8), 7=640/Mechanical
 Max Horz 2=265(LC 16)
 Max Uplift 2=-154(LC 16), 7=-204(LC 16)
 Max Grav 2=793(LC 2), 7=704(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-815/87
 BOT CHORD 2-15=-246/629, 8-15=-246/629, 8-16=-246/629, 7-16=-246/629
 WEBS 3-8=0/328, 3-7=-752/293

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=154, 7=204.
 - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-5=-66, 6-9=-20
 Concentrated Loads (lb)
 Vert: 8=-37(F=-18, B=-18) 13=-92(B) 15=-41(F=-20, B=-20) 16=-99(F=-49, B=-49)

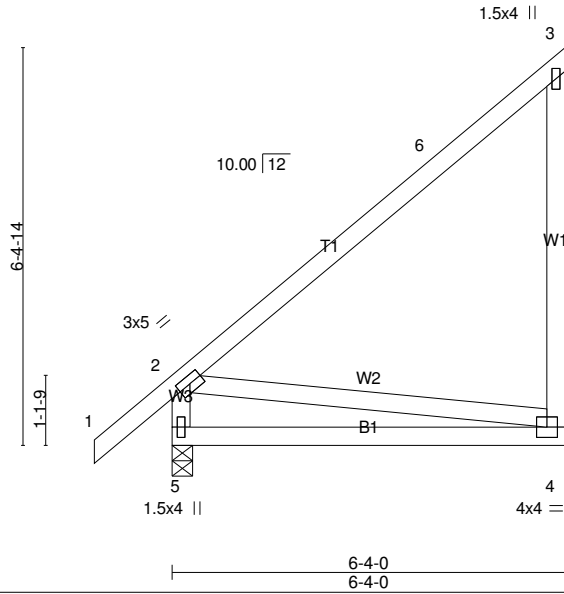
Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	J01	Jack-Closed	7	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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-1-3-0 | 6-0-8 | 6-4-0
1-3-0 | 6-0-8 | 0-3-8

Scale = 1:37.1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.91	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.47	Vert(LL) -0.08 4-5 >907 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.21	Vert(CT) -0.16 4-5 >454 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP	Horz(CT) -0.00 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 43 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied, except end verticals.
Rigid ceiling directly applied or 8-10-3 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 5=363/0-4-0 (min. 0-1-8), 4=250/Mechanical
Max Horz 5=242(LC 13)
Max Uplift 5=-8(LC 16), 4=-110(LC 16)
Max Grav 5=427(LC 2), 4=329(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-366/159, 3-4=-287/231
BOT CHORD 4-5=-418/380
WEBS 2-4=-300/348

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 4=110.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

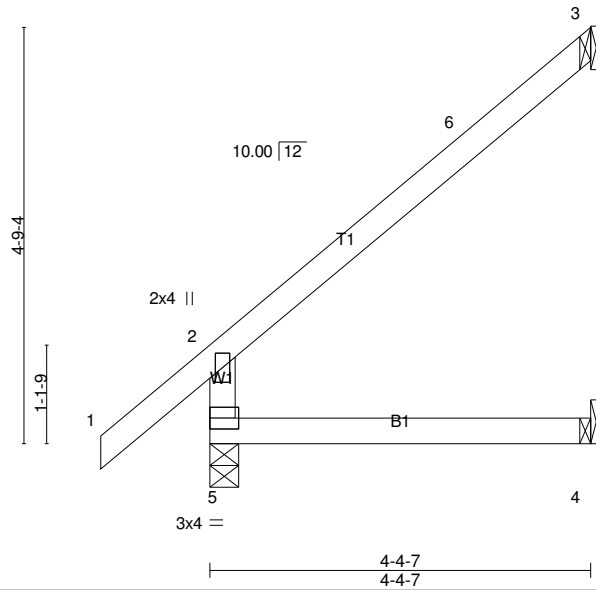
Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	J02	Jack-Closed	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:02 2021 Page 1
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-1-3-0	4-0-15	4-4-7
1-3-0	4-0-15	0-3-8

Scale = 1:26.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.40	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.28	Vert(LL) 0.03 4-5 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.04 4-5 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MR	Horz(CT) -0.04 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 19 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 5=287/0-4-0 (min. 0-1-8), 3=118/Mechanical, 4=46/Mechanical
Max Horz 5=155(LC 16)
Max Uplift 3=108(LC 16), 4=-4(LC 16)
Max Grav 5=338(LC 2), 3=151(LC 30), 4=79(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-303/80

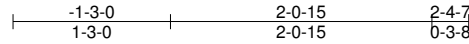
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=108.
 - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

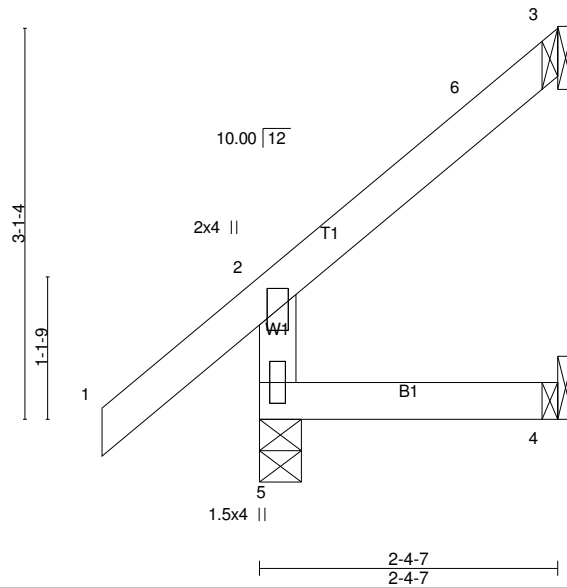
Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	J03	Jack-Closed	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:02 2021 Page 1
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Scale = 1:18.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.21	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.11	Vert(LL) 0.00 4-5 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.00 4-5 >999 240		
BCDL 0.0 *	Rep Stress Incr YES	Matrix-MR	Horz(CT) -0.01 3 n/a n/a		
BCLL 0.0	Code IRC2015/TPI2014			Weight: 12 lb	FT = 20%
BCDL 10.0					

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-4-7 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 5=215/0-4-0 (min. 0-1-8), 3=48/Mechanical, 4=16/Mechanical
 Max Horz 5=91(LC 16)
 Max Uplift 3=-58(LC 16), 4=-9(LC 16)
 Max Grav 5=256(LC 2), 3=67(LC 30), 4=39(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

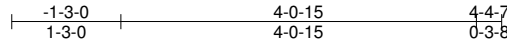
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
 - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

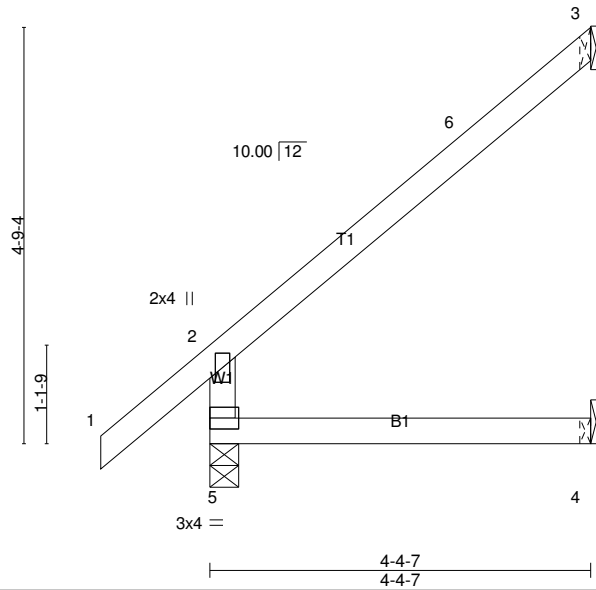
Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	J04	Jack-Closed	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:03 2021 Page 1
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Scale = 1:26.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.40	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.28	Vert(LL) 0.03 4-5 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.04 4-5 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MR	Horz(CT) -0.04 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 19 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-4-7 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 5=287/0-4-0 (min. 0-1-8), 3=118/Mechanical, 4=46/Mechanical
 Max Horz 5=155(LC 16)
 Max Uplift 3=108(LC 16), 4=-4(LC 16)
 Max Grav 5=338(LC 2), 3=151(LC 30), 4=79(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-303/80

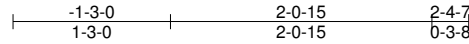
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=108.
 - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

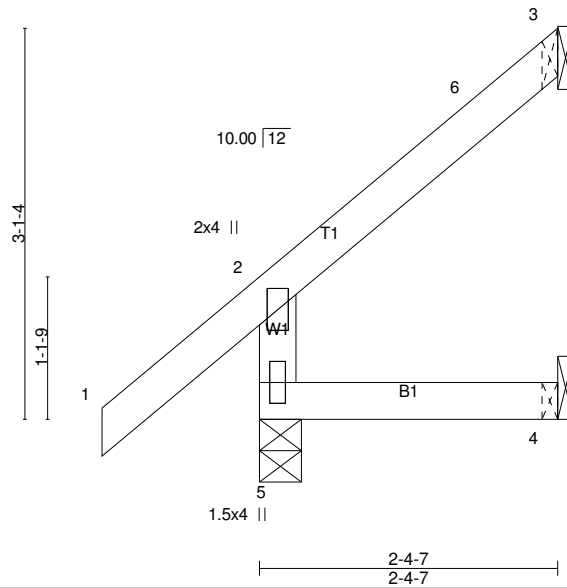
Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	J05	Jack-Closed	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:03 2021 Page 1
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Scale = 1:18.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.21	in (loc) l/def L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.11	Vert(LL) 0.00 4-5 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.00 4-5 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MR	Horz(CT) -0.01 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 12 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-4-7 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 5=215/0-4-0 (min. 0-1-8), 3=48/Mechanical, 4=16/Mechanical
 Max Horz 5=91(LC 16)
 Max Uplift 3=-58(LC 16), 4=-9(LC 16)
 Max Grav 5=256(LC 2), 3=67(LC 30), 4=39(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
 - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	J06	Jack-Closed	5	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:04 2021 Page 1
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-1-3-0 | 7-5-4 | 7-8-12
 1-3-0 | 7-5-4 | 0-3-8

Scale = 1:41.1

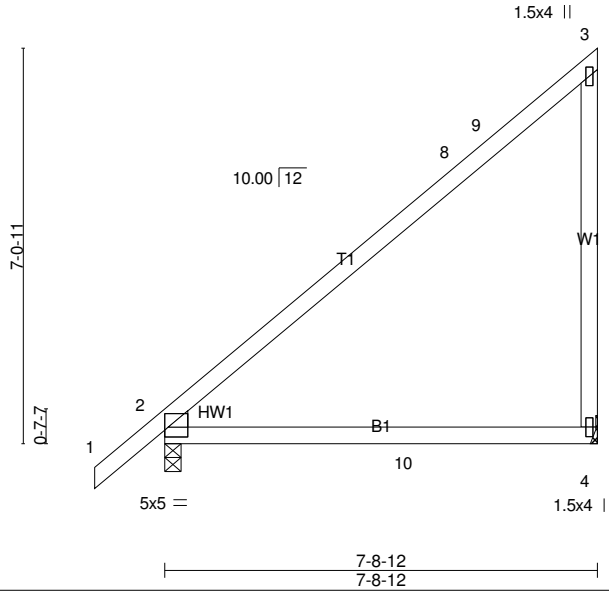


Plate Offsets (X,Y)-- [2:Edge,0-2-1]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.87	Vert(LL) 0.20	4-7	>450	360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.38	Vert(CT) -0.35	4-7	>259	240		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT) 0.05	2	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 39 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP DSS
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 4=320/Mechanical, 2=416/0-3-8 (min. 0-1-8)
 Max Horz 2=263(LC 15)
 Max Uplift 4=-99(LC 13), 2=-26(LC 16)
 Max Grav 4=482(LC 30), 2=487(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-8=-276/231, 3-9=-228/263, 3-4=-320/243

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
 - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

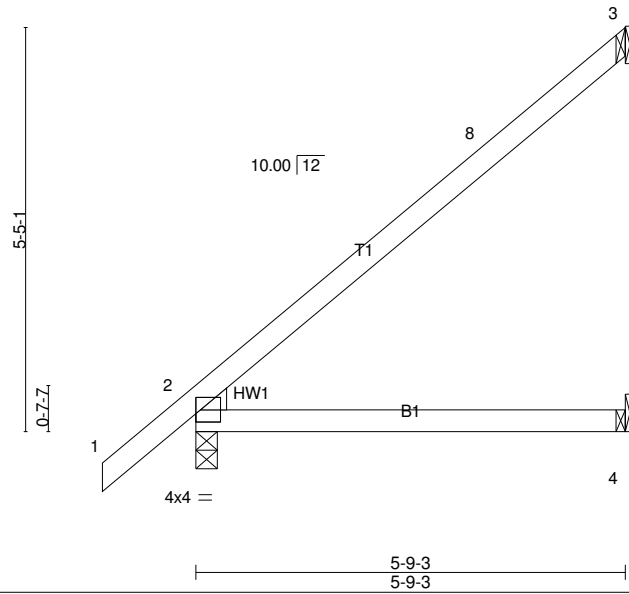
Job 21-3743-A	Truss J07	Truss Type Jack-Closed	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:05 2021 Page 1
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-1-3-0 | 5-5-11 | 5-9-3
1-3-0 | 5-5-11 | 0-3-8

Scale = 1:30.9



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL (roof) 30.0	Plate Grip DOL 1.15	TC 0.63	Vert(LL) 0.09 4-7 >771 360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Lumber DOL 1.15	BC 0.46	Vert(CT) -0.13 4-7 >531 240		
TCDL 10.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.03 3 n/a n/a		
BCLL 0.0 *	Code IRC2015/TPI2014	Matrix-MP			
BCDL 10.0				Weight: 23 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 5-9-3 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 3=161/Mechanical, 2=338/0-3-8 (min. 0-1-8), 4=76/Mechanical
Max Horz 2=218(LC 16)
Max Uplift 3=-125(LC 16)
Max Grav 3=200(LC 30), 2=396(LC 2), 4=107(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

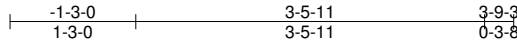
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=125.
 - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

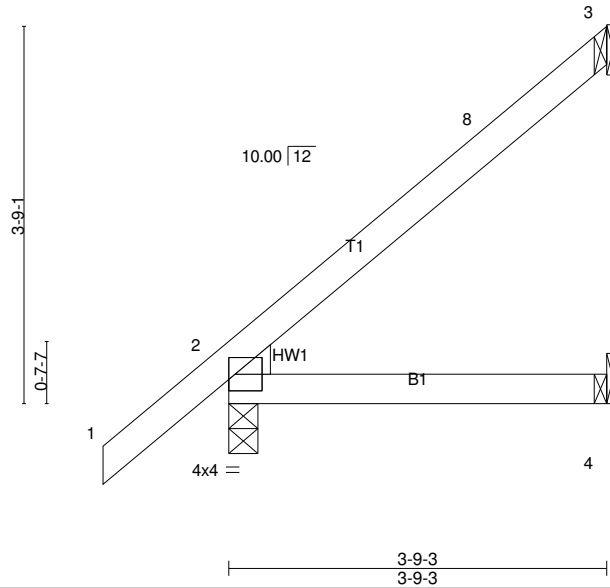
Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	J08	Jack-Closed	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:05 2021 Page 1
 ID:tuKcGkndK28Ert51GwX8jcz2kQv-umrVnhUA_VdYAQYmsnKZM4F4j03ay?BKZ0fA4jz2j_K



Scale = 1:22.9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.22	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.19	Vert(LL) 0.02 4-7 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.02 4-7 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP	Horz(CT) 0.01 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 16 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.3

BRACING-
 TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 3-9-3 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 3=99/Mechanical, 2=256/0-3-8 (min. 0-1-8), 4=46/Mechanical
 Max Horz 2=154(LC 16)
 Max Uplift 3=-79(LC 16), 2=-1(LC 16)
 Max Grav 3=125(LC 30), 2=302(LC 2), 4=68(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

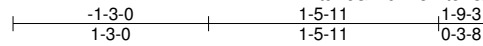
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
 - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

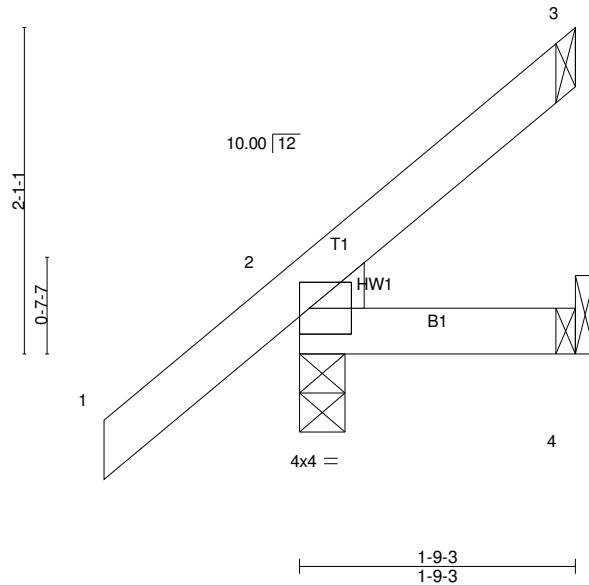
Job 21-3743-A	Truss J09	Truss Type Jack-Closed	Qty 2	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF Job Reference (optional)
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Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:06 2021 Page 1
ID:tuKcGkndK28Ert51GwX8jcz2kQv-MyPt?1VolpmPoa7zPUrouloGUPQjhSRtngOjdAz2j_J



Scale = 1:14.7



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.16	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.13	Vert(LL) 0.00 7 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.00 7 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP	Horz(CT) -0.00 2 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 9 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 1-9-3 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=188/0-3-8 (min. 0-1-8), 4=47/Mechanical
Max Horz 2=85(LC 16)
Max Uplift 2=-22(LC 16), 4=-33(LC 13)
Max Grav 2=223(LC 2), 4=54(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
 - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

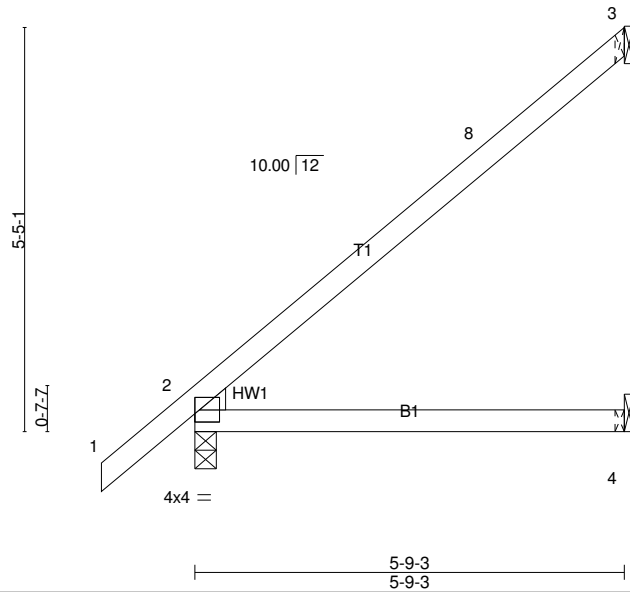
Job 21-3743-A	Truss J10	Truss Type Jack-Closed	Qty 2	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:06 2021 Page 1
ID:tuKcGkndK28Ert51GwX8jcz2kQv-MyPt?1VolpmPoa7zPUroulo94PKbhSRTngOjdAz2j_J

-1-3-0 5-5-11 5-9-3
1-3-0 5-5-11 0-3-8

Scale = 1:30.9



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL (roof) 30.0	Plate Grip DOL 1.15	TC 0.63	Vert(LL) 0.09 4-7 >771 360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Lumber DOL 1.15	BC 0.46	Vert(CT) -0.13 4-7 >531 240		
TCDL 10.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.03 3 n/a n/a		
BCLL 0.0 *	Code IRC2015/TPI2014	Matrix-MP			
BCDL 10.0				Weight: 23 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 5-9-3 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 3=161/Mechanical, 2=338/0-3-8 (min. 0-1-8), 4=76/Mechanical
Max Horz 2=218(LC 16)
Max Uplift 3=-125(LC 16)
Max Grav 3=200(LC 30), 2=396(LC 2), 4=107(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

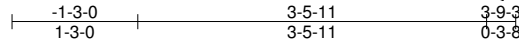
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=125.
 - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

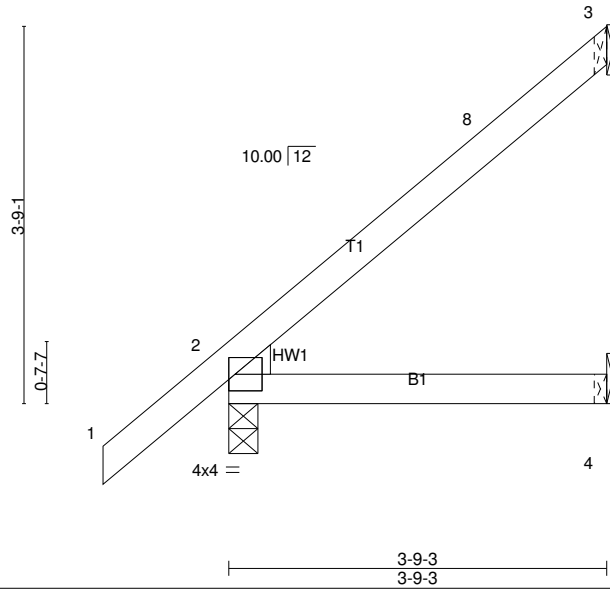
Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	J11	Jack-Closed	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:07 2021 Page 1
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Scale = 1:22.9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.22	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.19	Vert(LL) 0.02 4-7 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.02 4-7 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP	Horz(CT) 0.01 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 16 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.3

BRACING-
 TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 3-9-3 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 3=99/Mechanical, 2=256/0-3-8 (min. 0-1-8), 4=46/Mechanical
 Max Horz 2=154(LC 16)
 Max Uplift 3=-79(LC 16), 2=-1(LC 16)
 Max Grav 3=125(LC 30), 2=302(LC 2), 4=68(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

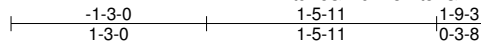
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
 - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

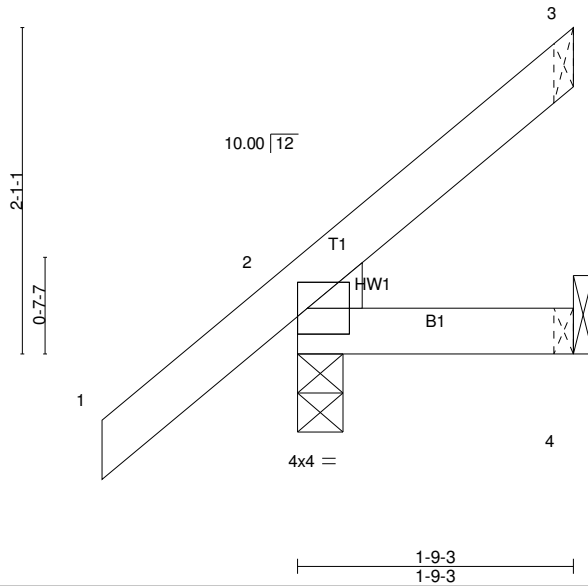
Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	J12	Jack-Closed	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:14.7



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.16	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.13	Vert(LL) 0.00 7 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.00 7 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP	Horz(CT) -0.00 2 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 9 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.3

BRACING-
 TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 1-9-3 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=188/0-3-8 (min. 0-1-8), 4=47/Mechanical
 Max Horz 2=85(LC 16)
 Max Uplift 2=-22(LC 16), 4=-33(LC 13)
 Max Grav 2=223(LC 2), 4=54(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

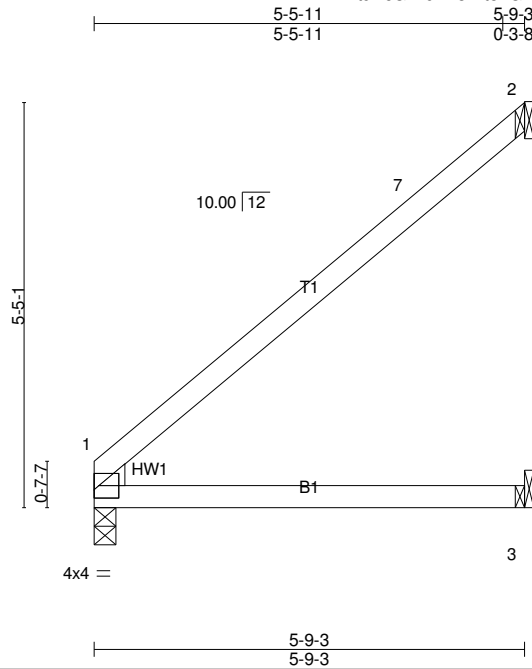
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
 - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	J13	Jack-Closed	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:07 2021 Page 1
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Scale = 1:30.9

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.66	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.53	Vert(LL) 0.10 3-6 >699 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.15 3-6 >470 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP	Horz(CT) 0.03 1 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 21 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.3

BRACING-
 TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 5-9-3 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=165/Mechanical, 3=81/Mechanical, 1=246/0-3-8 (min. 0-1-8)
 Max Horz 1=184(LC 16)
 Max Uplift2=-127(LC 16), 3=-1(LC 16)
 Max Grav2=205(LC 29), 3=109(LC 7), 1=285(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

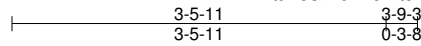
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=127.
 - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

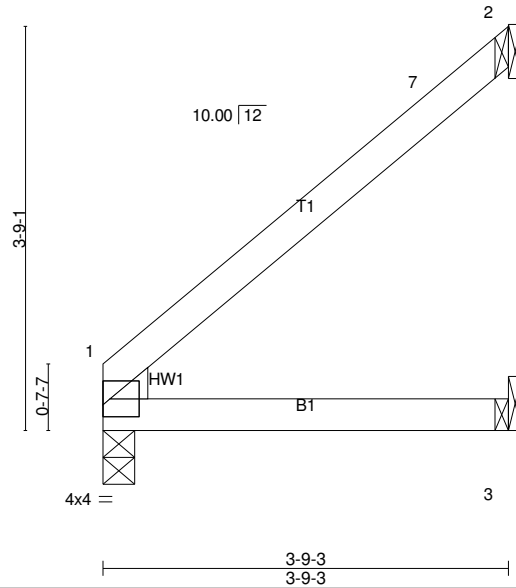
Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	J14	Jack-Closed	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:08 2021 Page 1
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Scale = 1:21.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.25	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.22	Vert(LL) 0.02 3-6 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.03 3-6 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP	Horz(CT) 0.01 1 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 14 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 3-9-3 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=106/Mechanical, 3=54/Mechanical, 1=160/0-3-8 (min. 0-1-8)
Max Horz 1=119(LC 16)
Max Uplift2=-82(LC 16), 3=-4(LC 16)
Max Grav2=132(LC 29), 3=70(LC 7), 1=185(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

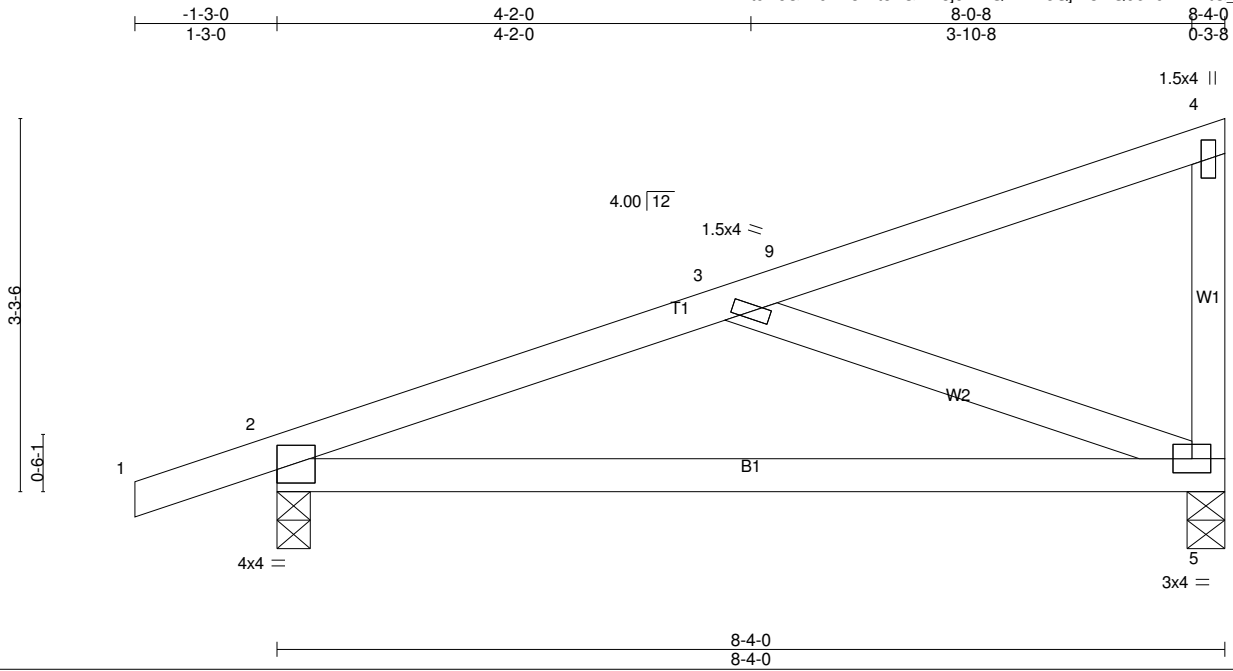
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 3.
 - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	M01	Monopitch	6	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:08 2021 Page 1
 ID:tuKcGkndK28Ert51GwX8jcz2kQv-ILXeQjW3HQ061uHLXvtG_jtYTDzY9J9mF_tqh2z2_H



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL (roof) 30.0	Plate Grip DOL 1.15	TC 0.45	Vert(LL) -0.14 5-8 >701 360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Lumber DOL 1.15	BC 0.62	Vert(CT) -0.28 5-8 >353 240		
TCDL 10.0	Rep Stress Incr YES	WB 0.24	Horz(CT) 0.01 2 n/a n/a		
BCLL 0.0 *	Code IRC2015/TPI2014	Matrix-MP			
BCDL 10.0				Weight: 38 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=442/0-3-8 (min. 0-1-8), 5=347/0-4-0 (min. 0-1-8)
 Max Horz 2=129(LC 15)
 Max Uplift 2=104(LC 12), 5=68(LC 16)
 Max Grav 2=517(LC 2), 5=402(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=623/226
 BOT CHORD 2-5=-300/568
 WEBS 3-5=-603/282

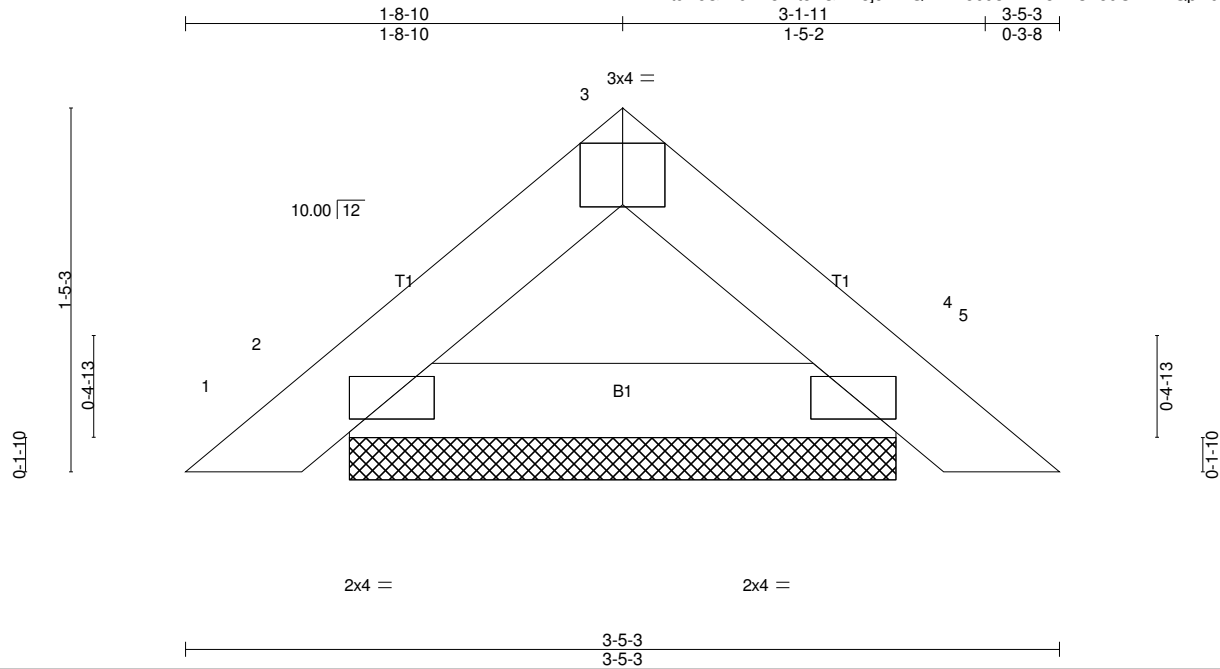
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=104.
 - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 21-3743-A	Truss PB01	Truss Type Piggyback	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF Job Reference (optional)
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Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:09 2021 Page 1
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Scale = 1:9.1

Plate Offsets (X,Y)-- [2:0-2-1,0-1-0], [3:0-2-0,Edge], [4:0-2-1,0-1-0]

LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	2-0-0	TC	0.02	in	(loc)	l/defl	L/d	MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.05	Vert(LL)	0.00	4	n/r		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Vert(CT)	0.00	4	n/r		
BCLL	0.0 *	Code IRC2015/TPI2014		Matrix-P		Horz(CT)	0.00	4	n/a		
BCDL	10.0									Weight: 10 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=120/2-1-12 (min. 0-1-8), 4=120/2-1-12 (min. 0-1-8)
Max Horz 2=31(LC 15)
Max Uplift 2=17(LC 16), 4=17(LC 17)
Max Grav 2=141(LC 2), 4=141(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

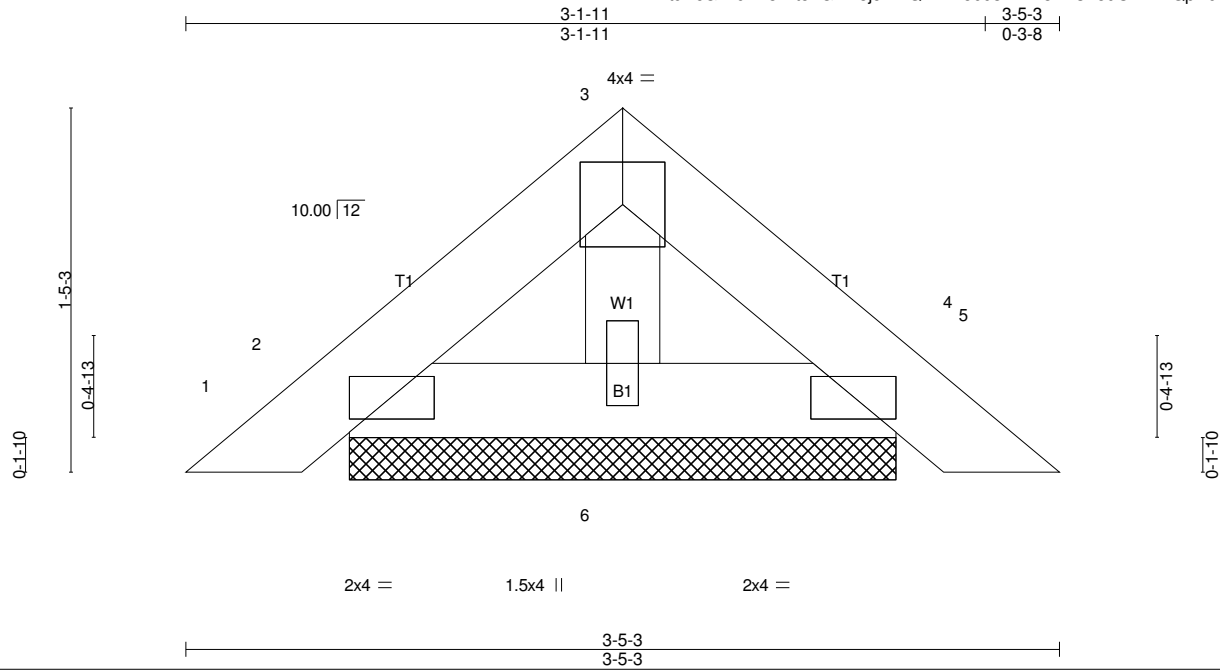
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	PB02	Piggyback	7	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:9.1

Plate Offsets (X,Y)-- [2:0-2-1,0-1-0], [4:0-2-1,0-1-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.02	Vert(LL)	0.00	4	n/r	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.01	Vert(CT)	0.00	4	n/r		
TCDL 10.0	Lumber DOL 1.15	WB 0.01	Horz(CT)	0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 11 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-5-3 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=85/2-1-12 (min. 0-1-8), 4=85/2-1-12 (min. 0-1-8), 6=71/2-1-12 (min. 0-1-8)
 Max Horz 2=31(LC 15)
 Max Uplift 2=-22(LC 16), 4=-25(LC 17)
 Max Grav 2=101(LC 2), 4=101(LC 2), 6=80(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	PB03	Piggyback	16	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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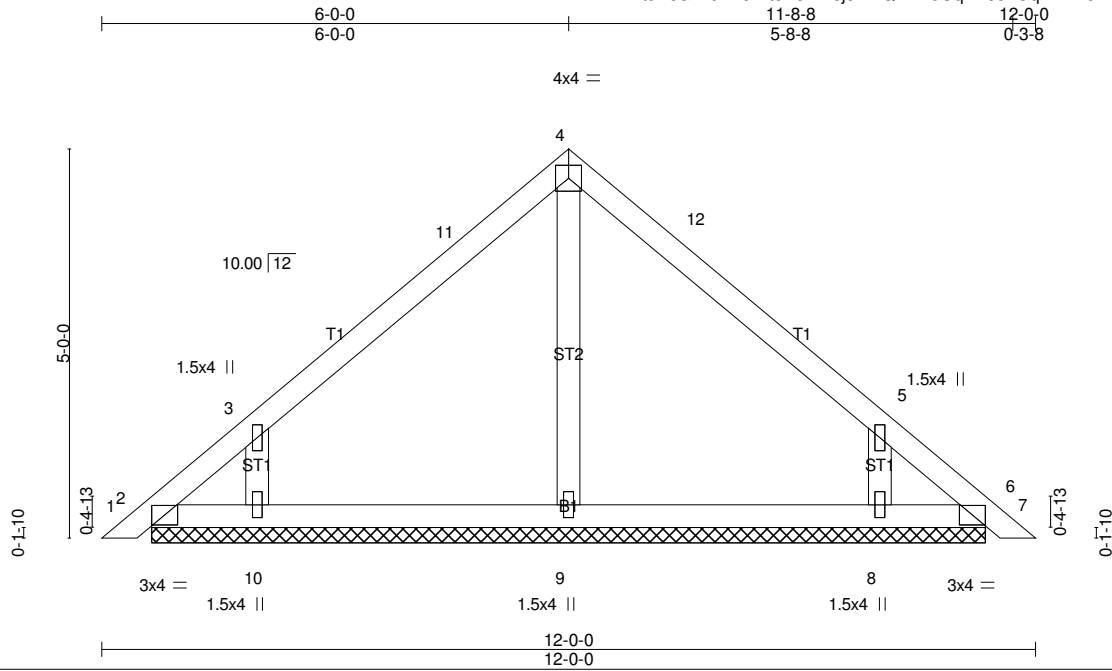


Plate Offsets (X,Y)-- [2:0-2-1,0-1-8], [6:0-2-1,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.25	Vert(LL)	-0.00	6	n/r	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.12	Vert(CT)	-0.00	7	n/r		
TCDL 10.0	Lumber DOL 1.15	WB 0.09	Horz(CT)	0.00	6	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S					Weight: 48 lb	FT = 20%
BCDL 10.0	Code IRC2015/TPI2014							

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 10-8-9.
 (lb) - Max Horz 2=-119(LC 14)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=-166(LC 16), 8=-165(LC 17)
 Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 9=296(LC 2), 10=374(LC 30), 8=373(LC 31)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-10=-322/215, 5-8=-321/214

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 10=166, 8=165.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	PB04GE	GABLE	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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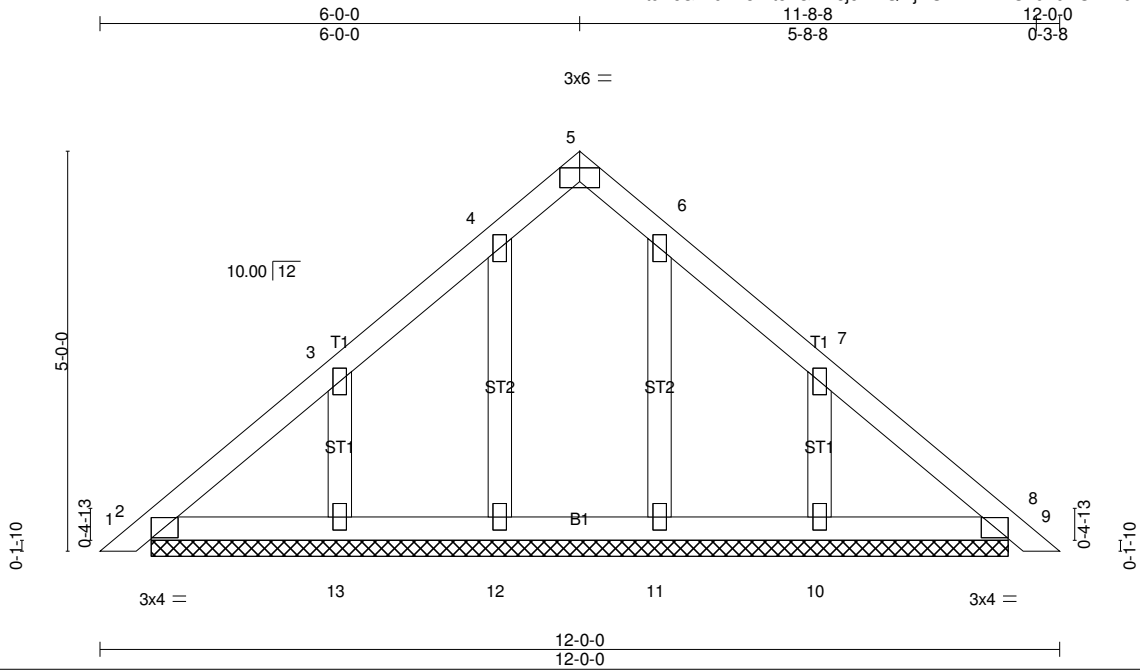


Plate Offsets (X,Y)-- [2:0-2-1,0-1-8], [5:0-3-0,Edge], [8:0-2-1,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.08	Vert(LL)	0.00	8	n/r	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.04	Vert(CT)	0.00	9	n/r		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	8	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S					Weight: 55 lb	FT = 20%
BCDL 10.0	Code IRC2015/TPI2014							

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 10-8-9.
 (lb) - Max Horz 2=119(LC 15)
 Max Uplift All uplift 100 lb or less at joint(s) 12, 11 except 13=116(LC 16), 10=118(LC 17)
 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 11 except 13=261(LC 30), 10=262(LC 31)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 11 except (jt=lb) 13=116, 10=118.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job 21-3743-A	Truss T01	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF Job Reference (optional)
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Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:12 2021 Page 1
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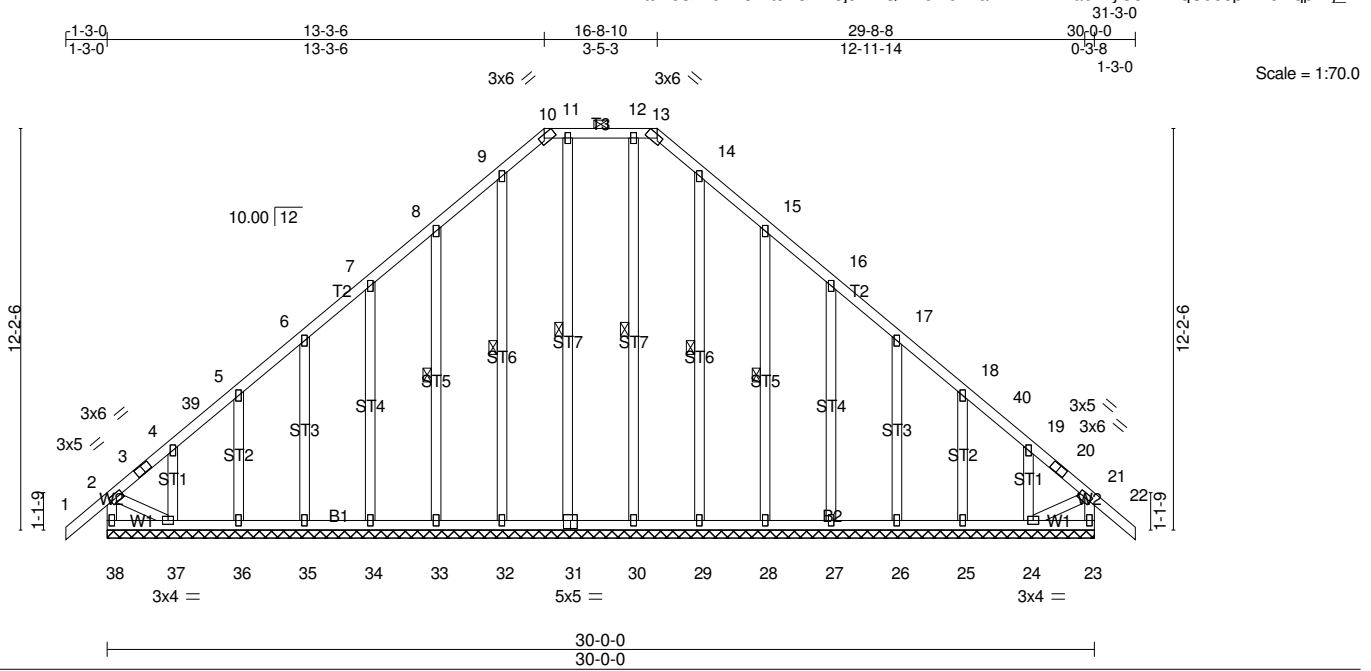


Plate Offsets (X,Y)-- [10:0-3-0,0-0-4], [13:0-3-0,0-0-4], [31:0-2-8,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.19	Vert(LL) -0.01	22	n/r	180	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT) -0.01	22	n/r	120		
TCDL 10.0	Lumber DOL 1.15	WB 0.26	Horz(CT) 0.01	23	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 263 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 10-13.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 37-38,23-24.
 WEBS 1 Row at midpt 11-31, 9-32, 8-33, 12-30, 14-29, 15-28

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 30-0-0.
 (lb) - Max Horz 38=-334(LC 14)
 Max Uplift All uplift 100 lb or less at joint(s) 23, 31, 32, 33, 34, 35, 36, 29, 28, 27, 26, 25 except 38=-135(LC 14), 37=-211(LC 16), 24=-194(LC 17)
 Max Grav All reactions 250 lb or less at joint(s) 31, 37, 30, 24 except 38=355(LC 32), 23=321(LC 33), 32=270(LC 39), 33=292(LC 39), 34=286(LC 39), 35=289(LC 39), 36=281(LC 39), 29=270(LC 39), 28=292(LC 39), 27=286(LC 39), 26=289(LC 39), 25=281(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-38=-337/145, 2-3=-318/199, 3-4=-305/221, 19-20=-261/207, 20-21=-274/193, 21-23=-304/170
 BOT CHORD 37-38=-309/302, 36-37=-203/264, 35-36=-203/264, 34-35=-203/264, 33-34=-203/264, 32-33=-203/264, 31-32=-203/264, 30-31=-202/264, 29-30=-202/264, 28-29=-202/264, 27-28=-202/264, 26-27=-202/264, 25-26=-202/264, 24-25=-202/264
 WEBS 8-33=-253/121, 15-28=-253/124, 2-37=-198/302, 21-24=-180/271

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21-3743-A	T01	Piggyback Base Supported Gable	1	1	CAIN BUILDERS-MILLER-KOERNER ROOF

Riverside Roof Truss, LLC, Danville, VA. 24541

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NOTES-

- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 31, 32, 33, 34, 35, 36, 29, 28, 27, 26, 25 except (jt=lb) 38=135, 37=211, 24=194.
- 15) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job 21-3743-A	Truss T01GE	Truss Type GABLE	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF Job Reference (optional)
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Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:13 2021 Page 1
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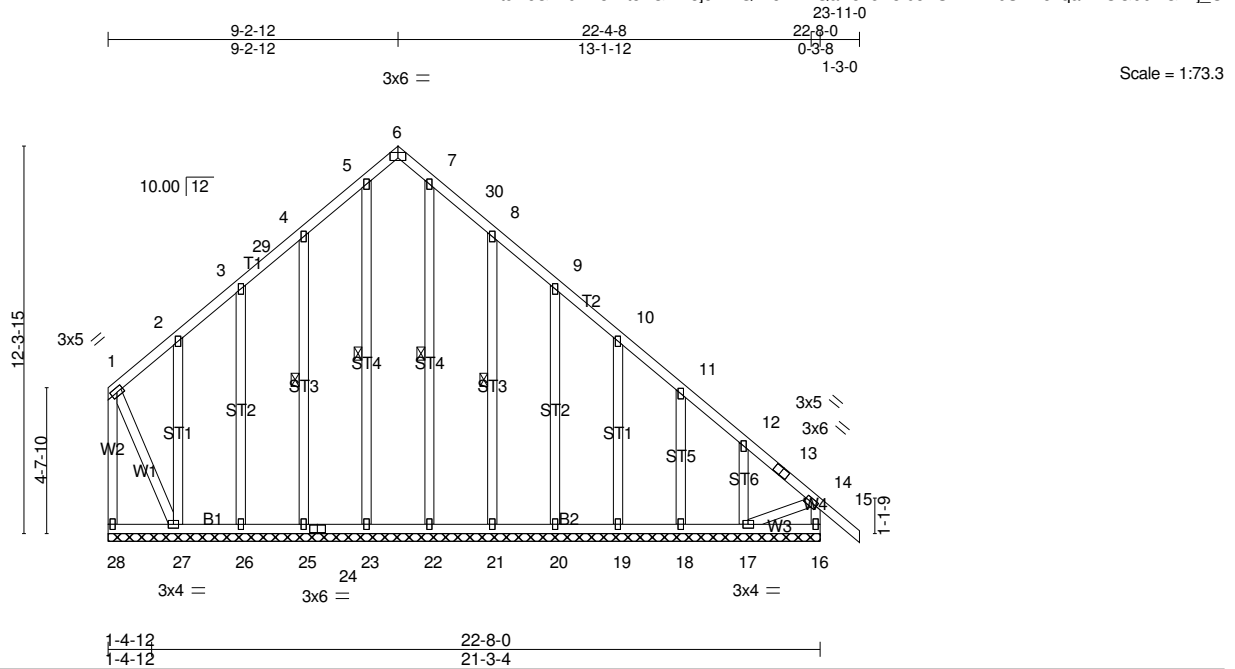


Plate Offsets (X,Y)-- [6:0-3-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.25	Vert(LL) -0.01	15	n/r	180	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.09	Vert(CT) -0.01	15	n/r	120		
TCDL 10.0	Lumber DOL 1.15	WB 0.19	Horz(CT) 0.01	16	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 209 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 16-17.
 WEBS 1 Row at midpt 5-23, 4-25, 7-22, 8-21

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 22-8-0.
 (lb) - Max Horz 28=-372(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 16, 26, 20, 19, 18 except 28=-289(LC 14), 25=-112(LC 16), 27=-351(LC 16), 21=-113(LC 17), 17=-204(LC 17)
 Max Grav All reactions 250 lb or less at joint(s) 23, 25, 26, 22, 21, 20, 19, 18 except 28=394(LC 13), 16=340(LC 33), 27=427(LC 14), 17=256(LC 31)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-28=-371/291, 12-13=-319/229, 13-14=-329/203, 14-16=-318/156
 BOT CHORD 27-28=-289/336, 26-27=-254/311, 25-26=-254/311, 24-25=-254/311, 23-24=-254/311, 22-23=-254/311, 21-22=-254/311, 20-21=-254/311, 19-20=-254/311, 18-19=-254/311, 17-18=-254/311
 WEBS 14-17=-237/316, 1-27=-326/378

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T01GE	GABLE	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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NOTES-

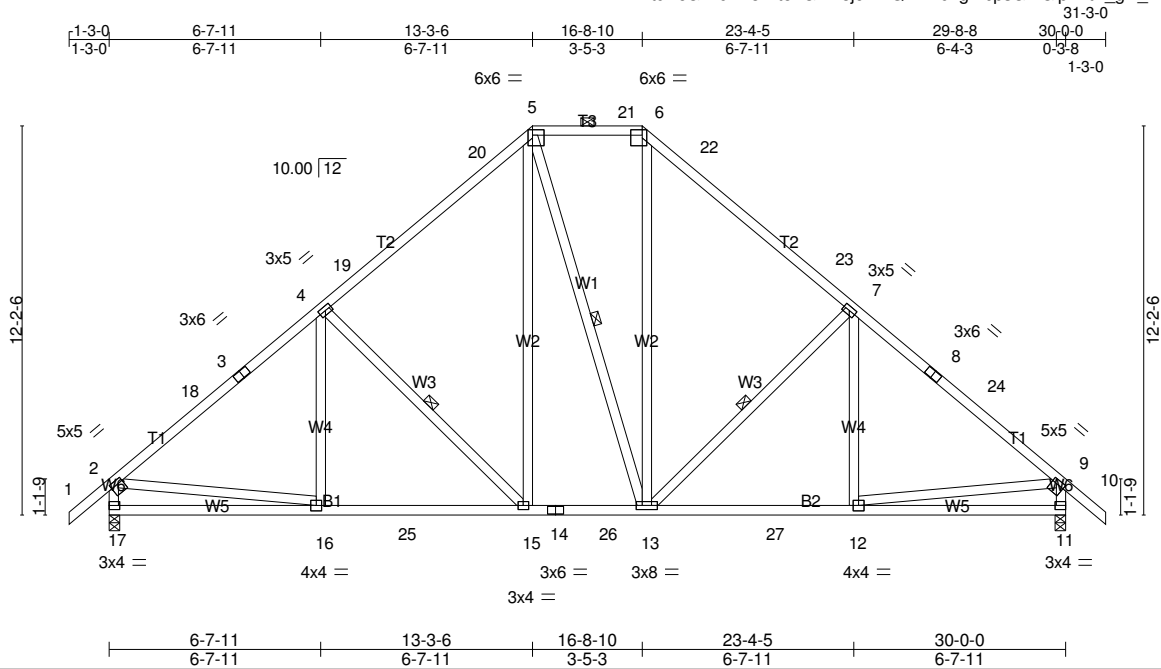
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 26, 20, 19, 18 except (jt=lb) 28=289, 25=112, 27=351, 21=113, 17=204.
- 14) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 21-3743-A	Truss T02	Truss Type Piggyback Base	Qty 5	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF Job Reference (optional)
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Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:14 2021 Page 1
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Scale = 1:72.2

Plate Offsets (X,Y)-- [2:0-1-12,0-1-8], [5:0-4-4,0-2-0], [6:0-4-4,0-2-0], [9:0-1-12,0-1-8], [11:Edge,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.93	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.55	Vert(LL) -0.09 15-16 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.56	Vert(CT) -0.16 15-16 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.05 11 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 224 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.1 *Except*
 T3: 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-9-10 max.): 5-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 4-15, 5-13, 7-13

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 17=1373/0-4-0 (min. 0-2-4), 11=1373/0-4-0 (min. 0-2-4)
 Max Horz 17=-334(LC 14)
 Max Uplift 17=-146(LC 16), 11=-146(LC 17)
 Max Grav 17=1906(LC 39), 11=1906(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-18=-2225/241, 3-18=-2076/242, 3-4=-1868/269, 4-19=-1787/305, 19-20=-1490/329,
 5-20=-1360/351, 5-21=-1135/339, 6-21=-1135/339, 6-22=-1361/352, 22-23=-1491/329,
 7-23=-1788/305, 7-8=-1868/269, 8-24=-2075/242, 9-24=-2225/241, 2-17=-1843/286,
 9-11=-1843/286
 BOT CHORD 16-17=-320/480, 16-25=-156/1626, 15-25=-156/1626, 14-15=-34/1139, 14-26=-34/1139,
 13-26=-34/1139, 13-27=-43/1594, 12-27=-43/1594, 11-12=-90/281
 WEBS 4-15=-669/248, 5-15=-115/626, 6-13=-103/591, 7-13=-667/248, 2-16=0/1353, 9-12=0/1351

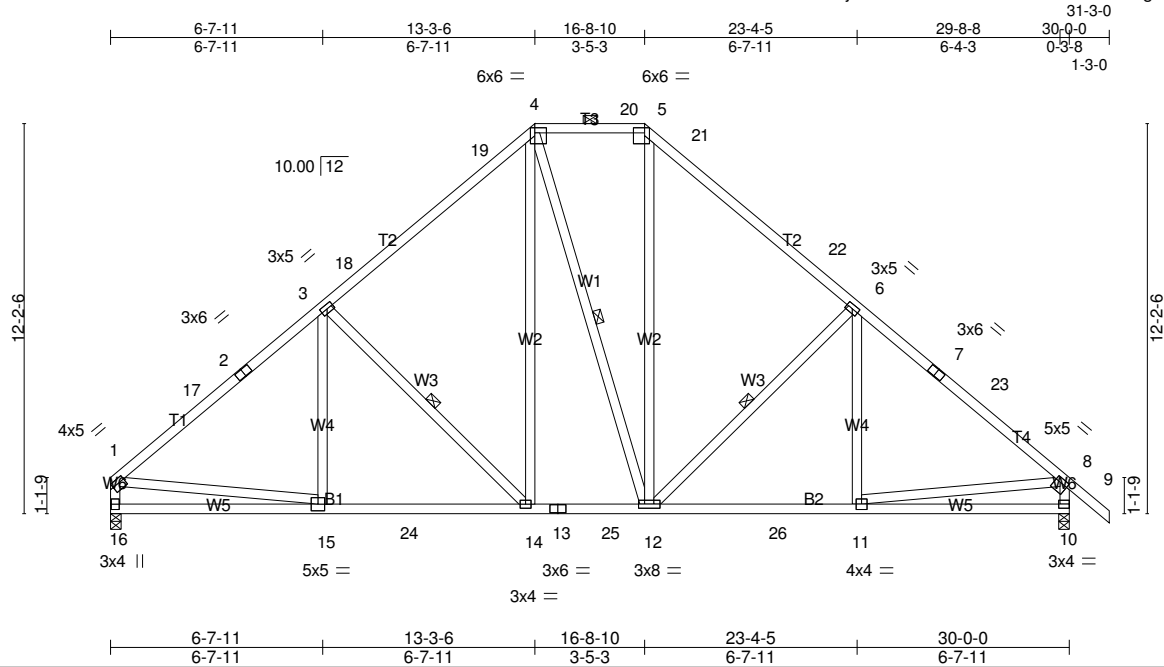
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=146, 11=146.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job 21-3743-A	Truss T03	Truss Type Piggyback Base	Qty 2	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF Job Reference (optional)
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Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:72.1

Plate Offsets (X,Y)-- [1:0-1-12,0-1-8], [4:0-4-4,0-2-0], [5:0-4-4,0-2-0], [8:0-1-12,0-1-8], [10:Edge,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.93	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.55	Vert(LL) -0.09 14-15 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.58	Vert(CT) -0.16 14-15 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.05 10 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 221 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.1 *Except*
 T3: 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-9-10 max.): 4-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 3-14, 4-12, 6-12

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 16=1278/0-4-0 (min. 0-2-2), 10=1375/0-4-0 (min. 0-2-4)
 Max Horz 16=-324(LC 12)
 Max Uplift 16=-116(LC 16), 10=-146(LC 17)
 Max Grav 16=1812(LC 39), 10=1908(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-17=-2228/237, 2-17=-2092/238, 2-3=-1871/266, 3-18=-1793/308, 18-19=-1493/332,
 4-19=-1366/354, 4-20=-1138/340, 5-20=-1138/340, 5-21=-1335/353, 21-22=-1495/330,
 6-22=-1791/306, 6-7=-1871/270, 7-23=-2078/243, 8-23=-2228/242, 1-16=-1749/224,
 8-10=-1845/286
 BOT CHORD 15-16=-292/429, 15-24=-159/1637, 14-24=-159/1637, 13-14=-34/1141, 13-25=-34/1141,
 12-25=-34/1141, 12-26=-44/1597, 11-26=-44/1597, 10-11=-90/281
 WEBS 3-14=-681/253, 4-14=-118/635, 5-12=-102/591, 6-12=-667/248, 1-15=-41/1410,
 8-11=0/1354

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=116, 10=146.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T04	GABLE	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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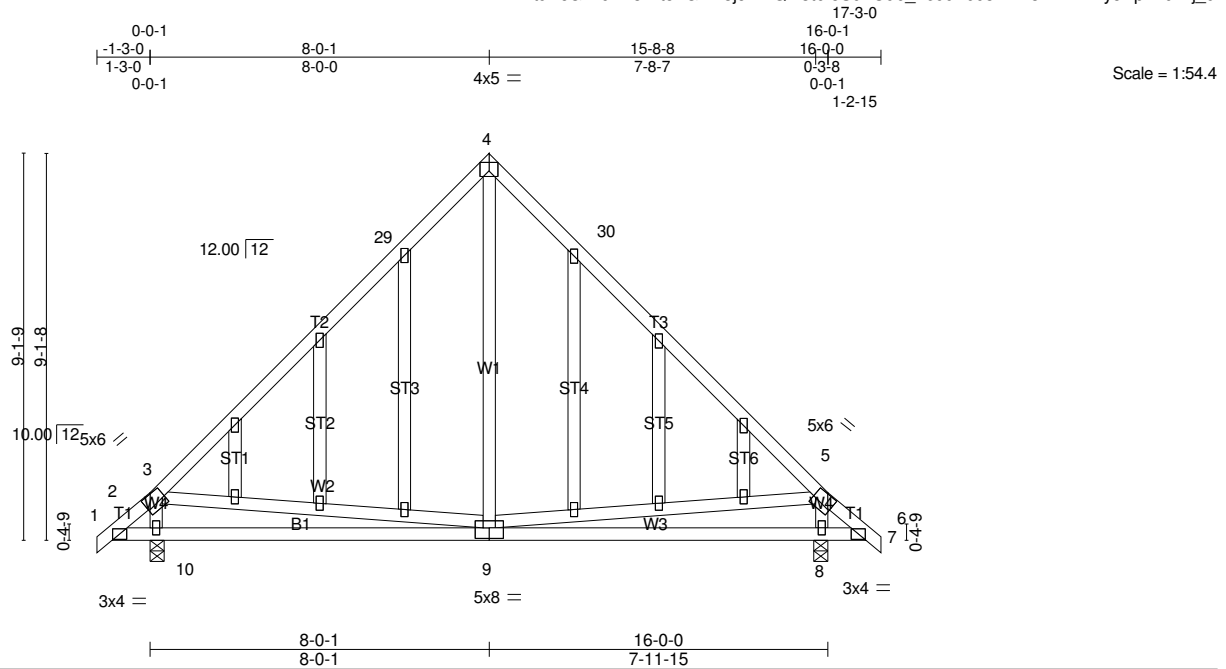


Plate Offsets (X,Y)-- [3:0-5-4,0-3-0], [4:0-2-7,Edge], [5:0-5-4,0-3-0], [9:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.66	Vert(LL)	-0.05	9-10	>999	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.47	Vert(CT)	-0.11	9-10	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.23	Horz(CT)	0.01	8	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 139 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP DSS *Except*
 T1: 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-7-10 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 10=790/0-4-0 (min. 0-1-8), 8=790/0-4-0 (min. 0-1-8)
 Max Horz 10=223(LC 15)
 Max Uplift 10=-65(LC 16), 8=-65(LC 17)
 Max Grav 10=918(LC 2), 8=918(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-29=-770/102, 4-29=-434/139, 4-30=-434/139, 5-30=-770/102, 3-10=-795/350,
 5-8=-796/349
 BOT CHORD 9-10=-282/455, 8-9=-140/311
 WEBS 3-9=-185/313, 4-9=0/315, 5-9=-197/321

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 8.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T05	Roof Special	4	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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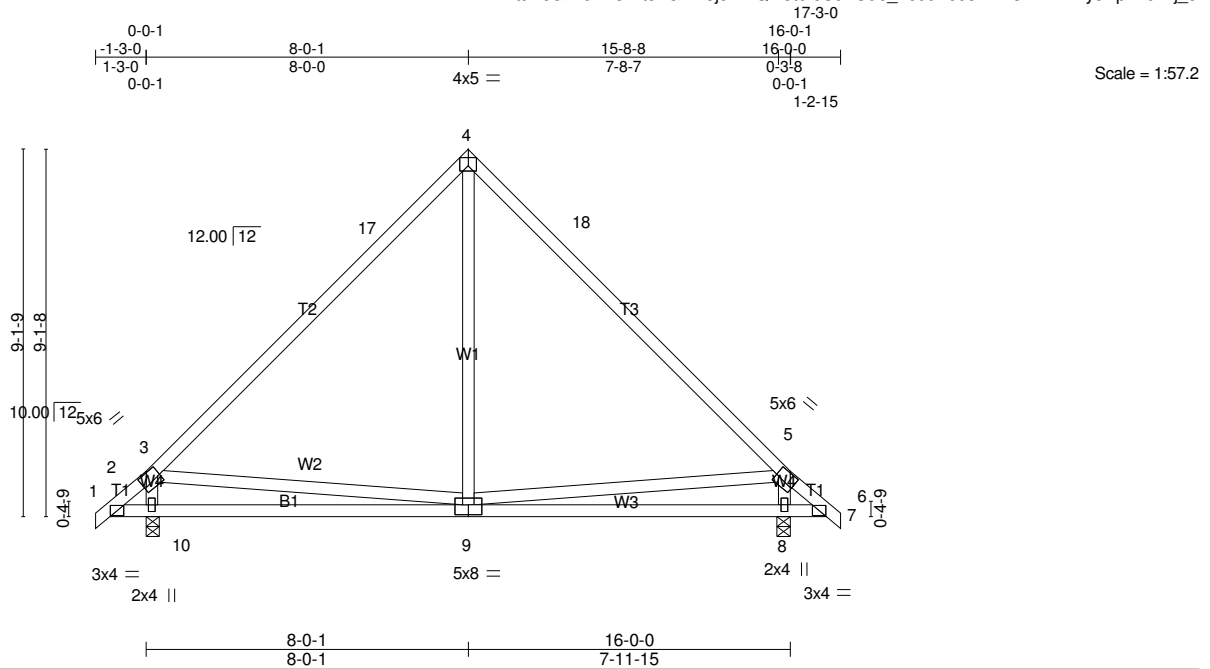


Plate Offsets (X,Y)-- [3:0-5-4,0-3-0], [4:0-2-7,Edge], [5:0-5-4,0-3-0], [9:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.66	Vert(LL)	-0.05	9-10	>999	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.47	Vert(CT)	-0.11	9-10	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.23	Horz(CT)	0.01	8	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 104 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP DSS *Except*
T1: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-7-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 10=790/0-4-0 (min. 0-1-8), 8=790/0-4-0 (min. 0-1-8)
Max Horz 10=223(LC 15)
Max Uplift 10=-65(LC 16), 8=-65(LC 17)
Max Grav 10=918(LC 2), 8=918(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-17=-770/102, 4-17=-434/139, 4-18=-434/139, 5-18=-770/102, 3-10=-795/350,
5-8=-796/349
BOT CHORD 9-10=-282/455, 8-9=-140/311
WEBS 3-9=-185/313, 4-9=0/315, 5-9=-197/321

NOTES-

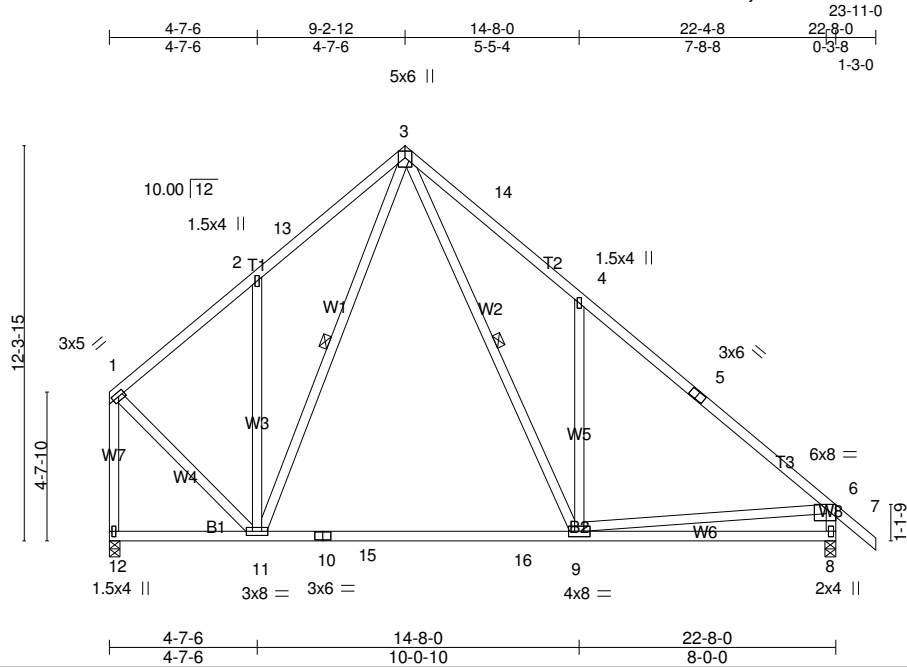
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 8.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T06	Common	4	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:71.9

Plate Offsets (X,Y)-- [6:0-3-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.91	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.40	Vert(LL) -0.33 9-11 >809 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.62	Vert(CT) -0.48 9-11 >555 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.01 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 168 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP DSS
WEBS 2x4 SP No.3 *Except*
W8: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-11, 3-9

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 12=961/0-4-0 (min. 0-1-8), 8=1060/0-4-0 (min. 0-1-8)
Max Horz 12=-372(LC 12)
Max Uplift 12=-97(LC 17), 8=-109(LC 17)
Max Grav 12=1115(LC 2), 8=1234(LC 2)

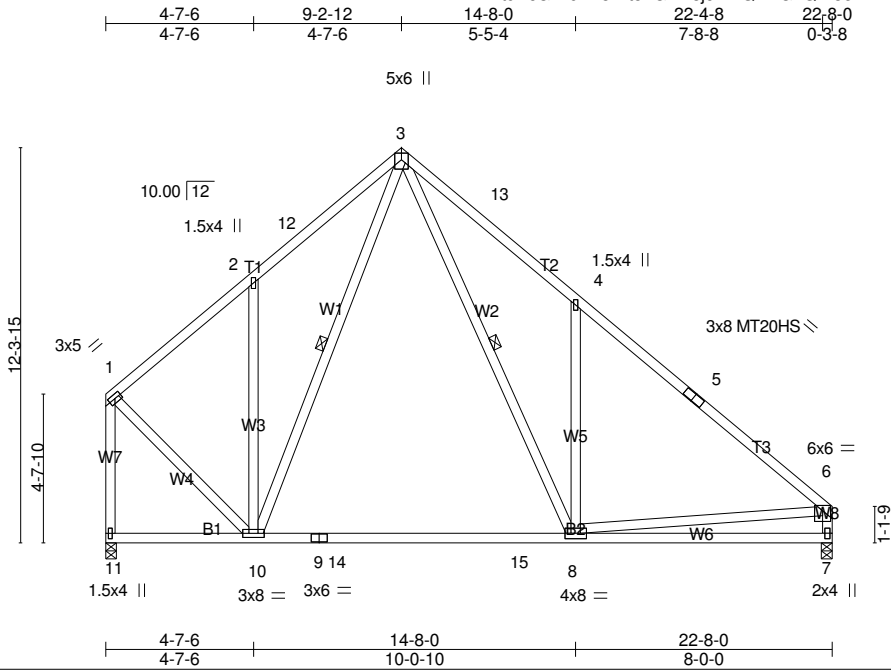
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-790/192, 2-13=-876/356, 3-13=-768/388, 3-14=-1118/458, 4-14=-1258/421,
4-5=-1081/192, 5-6=-1277/162, 1-12=-1129/167, 6-8=-1166/238
BOT CHORD 11-12=-290/337, 11-15=-25/613, 10-15=-25/613, 10-16=-25/613, 9-16=-25/613,
8-9=-210/457
WEBS 2-11=-428/284, 3-11=-197/293, 3-9=-332/936, 4-9=-590/388, 1-11=-81/806, 6-9=-24/615

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BC DL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 8=109.
 - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 21-3743-A	Truss T07	Truss Type COMMON	Qty 8	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
Riverside Roof Truss, LLC, Danville, VA. 24541					Job Reference (optional)

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Scale = 1:71.9

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.85	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.40	Vert(LL) -0.33 8-10 >810 360	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.67	Vert(CT) -0.48 8-10 >556 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.01 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 166 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.1 *Except*
 T1: 2x4 SP No.2
 BOT CHORD 2x4 SP DSS
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 3-10, 3-8

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 11=964/0-4-0 (min. 0-1-8), 7=964/0-4-0 (min. 0-1-8)
 Max Horz 11=-353(LC 12)
 Max Uplift 11=-97(LC 17), 7=-79(LC 17)
 Max Grav 11=1119(LC 2), 7=1119(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-792/192, 2-12=-879/358, 3-12=-770/390, 3-13=-1136/471, 4-13=-1282/433,
 4-5=-1081/188, 5-6=-1277/156, 1-11=-1132/167, 6-7=-1051/176
 BOT CHORD 10-11=-280/318, 10-14=-37/600, 9-14=-37/600, 9-15=-37/600, 8-15=-37/600, 7-8=-136/303
 WEBS 2-10=-429/285, 3-10=-196/293, 3-8=-345/964, 4-8=-632/413, 1-10=-82/809, 6-8=0/692

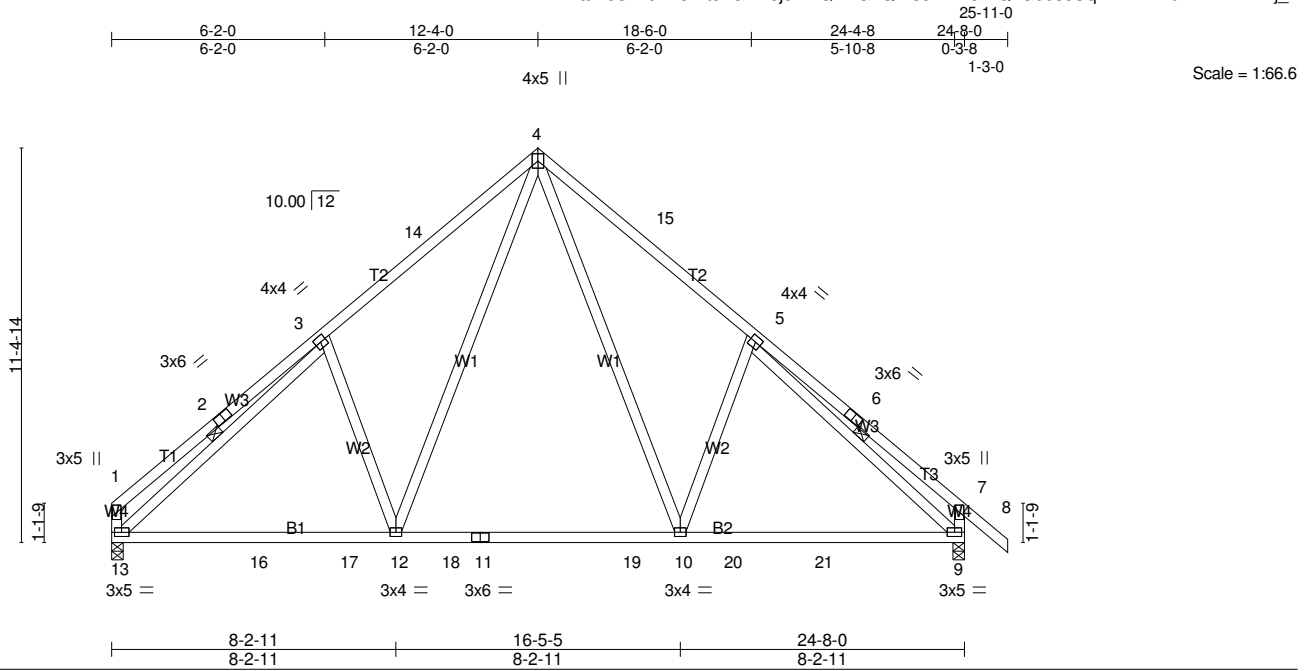
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BC DL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 7.
 - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T08	Common	4	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:18 2021 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.71	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.73	Vert(LL) -0.16 10-12 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.53	Vert(CT) -0.23 10-12 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.03 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 165 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-5-6 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 3-13, 5-9

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 13=1048/0-4-0 (min. 0-1-8), 9=1146/0-4-0 (min. 0-1-9)
 Max Horz 13=-303(LC 12)
 Max Uplift 13=-87(LC 16), 9=-116(LC 17)
 Max Grav 13=1216(LC 2), 9=1334(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-433/152, 2-3=-289/179, 3-14=-1336/342, 4-14=-1189/366, 4-15=-1182/365,
 5-15=-1327/343, 5-6=-350/233, 6-7=-477/208, 1-13=-400/158, 7-9=-539/238
 BOT CHORD 13-16=-137/1172, 16-17=-137/1172, 12-17=-137/1172, 12-18=0/798, 11-18=0/798,
 11-19=0/798, 10-19=0/798, 10-20=-25/1024, 20-21=-25/1024, 9-21=-25/1024
 WEBS 4-10=-193/685, 5-10=-360/303, 4-12=-196/698, 3-12=-376/307, 3-13=-1155/78,
 5-9=-1129/29

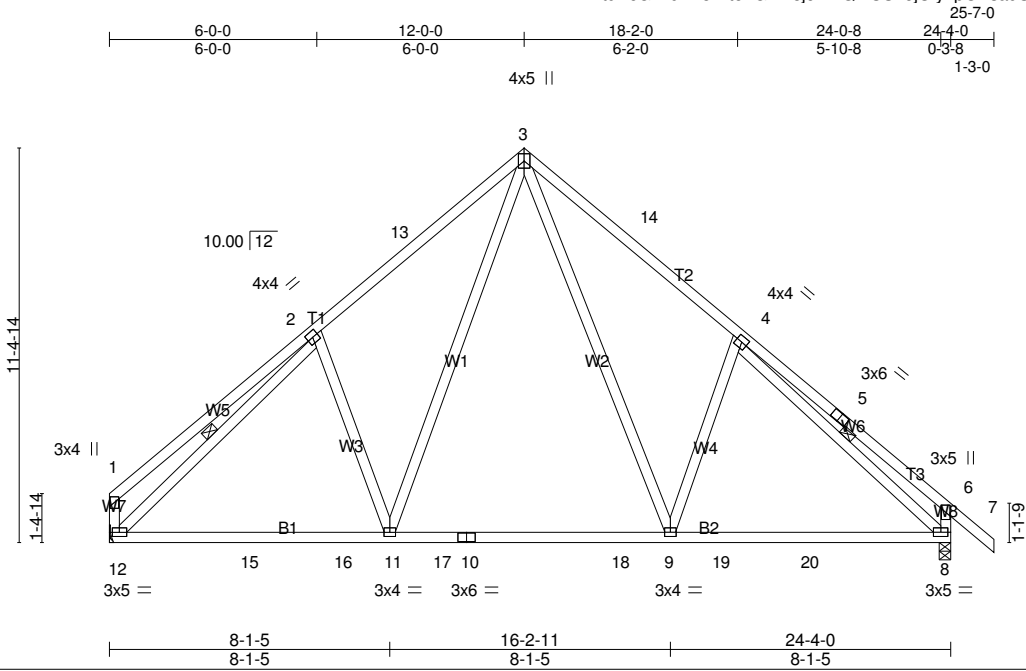
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 9=116.
 - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T09	Common	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:66.6

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.69	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.72	Vert(LL) -0.15 9-11 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.54	Vert(CT) -0.21 9-11 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.03 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 165 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-12, 4-8

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 12=1034/Mechanical, 8=1131/0-4-0 (min. 0-1-9)
Max Horz 12=-307(LC 12)
Max Uplift 12=-83(LC 16), 8=-115(LC 17)
Max Grav 12=1199(LC 2), 8=1317(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-350/170, 2-13=-1273/333, 3-13=-1130/357, 3-14=-1166/365, 4-14=-1312/343,
4-5=-347/233, 5-6=-473/208, 1-12=-343/151, 6-8=-536/238
BOT CHORD 12-15=-125/1111, 15-16=-125/1111, 11-16=-125/1111, 11-17=0/780, 10-17=0/780,
10-18=0/780, 9-18=0/780, 9-19=-22/1008, 19-20=-22/1008, 8-20=-22/1008
WEBS 3-11=-187/650, 2-11=-337/298, 3-9=-199/687, 4-9=-363/306, 2-12=-1183/92, 4-8=-1113/25

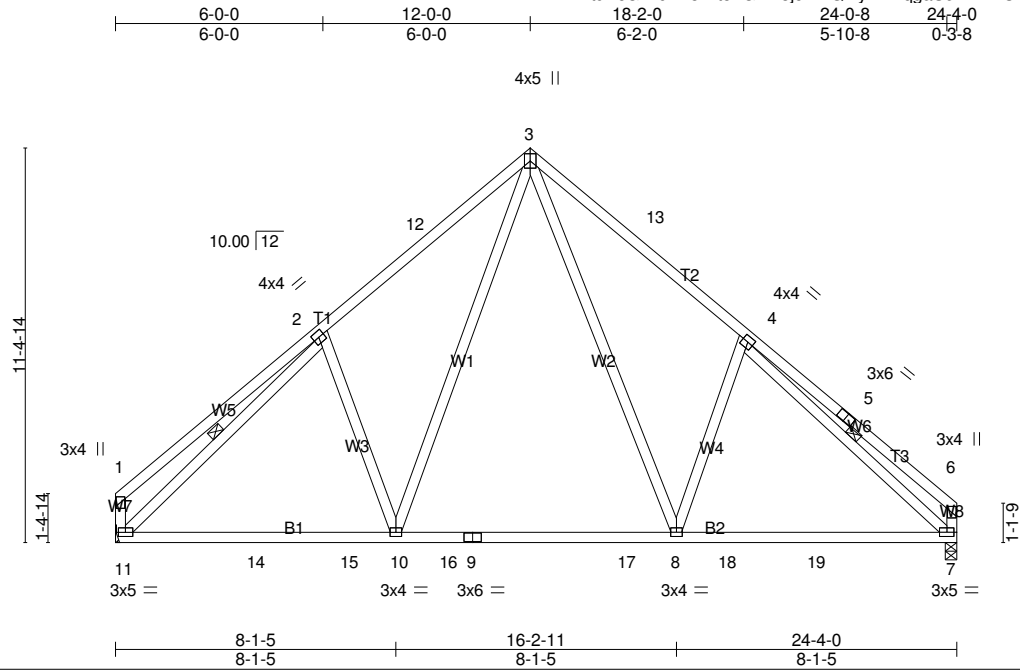
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BC DL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 8=115.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T10	Common	2	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:66.6

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.70	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.72	Vert(LL) -0.15 8-10 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.55	Vert(CT) -0.21 8-10 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.03 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 162 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-9-14 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 2-11, 4-7

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 11=1036/Mechanical, 7=1036/0-4-0 (min. 0-1-8)
 Max Horz 11=-288(LC 14)
 Max Uplift 11=-83(LC 16), 7=-86(LC 17)
 Max Grav 11=1202(LC 2), 7=1202(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-350/170, 2-12=-1276/336, 3-12=-1133/359, 3-13=-1178/368, 4-13=-1325/347,
 4-5=-285/179, 5-6=-429/153, 1-11=-343/151, 6-7=-397/158
 BOT CHORD 11-14=-144/1099, 14-15=-144/1099, 10-15=-144/1099, 10-16=-4/768, 9-16=-4/768,
 9-17=-4/768, 8-17=-4/768, 8-18=-92/1004, 18-19=-92/1004, 7-19=-92/1004
 WEBS 3-10=-187/650, 2-10=-337/299, 3-8=-203/701, 4-8=-379/310, 2-11=-1188/92, 4-7=-1142/75

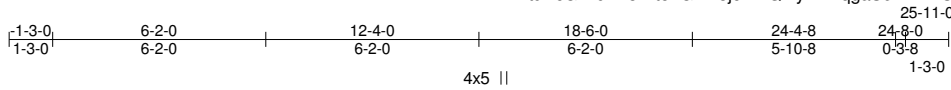
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 7.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

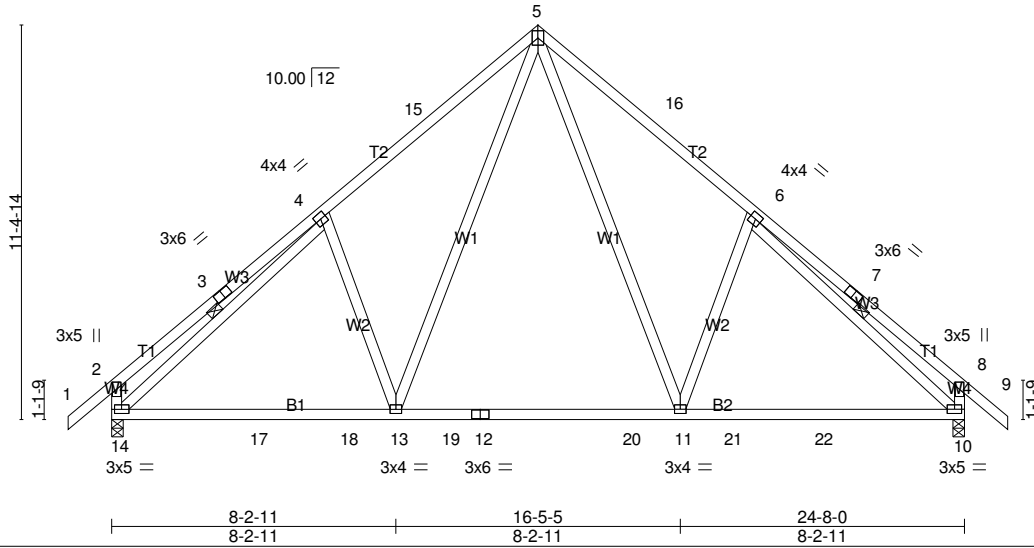
Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T11	Common	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:20 2021 Page 1
ID:tuKcGkndK28Ert51GwX8jcz2kQv-yfFAxqgaS6WPTkCfEQ54TFNwa31YzfnX?snT6Mz2j_5



Scale = 1:66.6



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.76	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.73	Vert(LL) -0.16 11-13 >999 360		
BCDL 10.0	Lumber DOL 1.15	WB 0.52	Vert(CT) -0.23 11-13 >999 240		
TCDL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.03 10 n/a n/a		
BCLL 0.0	Code IRC2015/TPI2014			Weight: 168 lb	FT = 20%
BCDL 10.0					

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-14, 6-10

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 14=1143/0-4-0 (min. 0-1-9), 10=1143/0-4-0 (min. 0-1-9)
Max Horz 14=313(LC 15)
Max Uplift 14=-116(LC 16), 10=-116(LC 17)
Max Grav 14=1330(LC 2), 10=1330(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-478/208, 3-4=-351/233, 4-15=-1323/339, 5-15=-1179/363, 5-16=-1179/363,
6-16=-1323/339, 6-7=-351/233, 7-8=-477/208, 2-14=-540/238, 8-10=-540/238
BOT CHORD 14-17=-134/1160, 17-18=-134/1160, 13-18=-134/1160, 13-19=0/795, 12-19=0/795,
12-20=0/795, 11-20=0/795, 11-21=-24/1021, 21-22=-24/1021, 10-22=-24/1021
WEBS 5-11=-192/685, 6-11=-360/303, 5-13=-192/685, 4-13=-360/303, 4-14=-1125/28,
6-10=-1125/28

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=116, 10=116.
 - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T12	Hip	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:21 2021 Page 1
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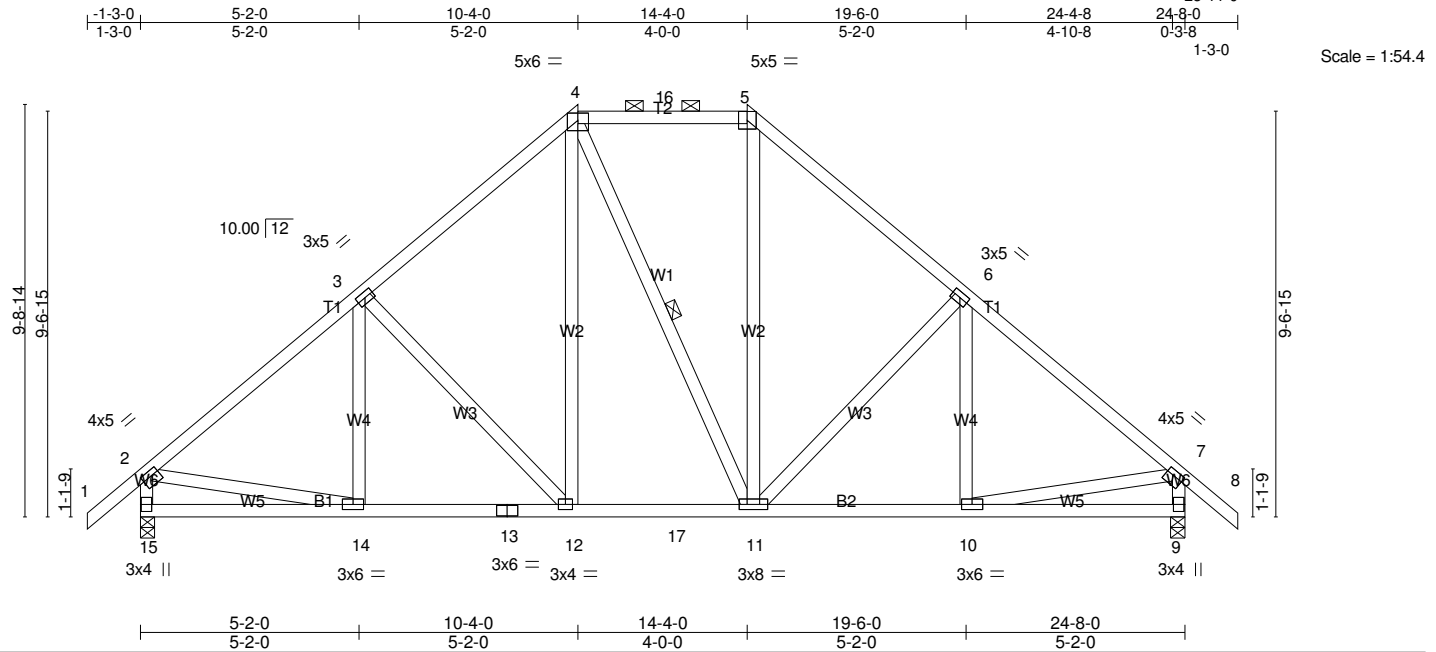


Plate Offsets (X,Y)-- [2:0-1-12,0-1-8], [4:0-3-0,0-2-1], [7:0-1-12,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.69	Vert(LL) -0.05	12	>999	360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.36	Vert(CT) -0.09	12-14	>999	240		
TCDL 10.0	Lumber DOL 1.15	WB 0.44	Horz(CT) 0.03	9	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 181 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-7-9 oc purlins, except end verticals, and 2-0-0 oc purlins (5-10-9 max.): 4-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 4-11

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 15=1143/0-4-0 (min. 0-1-15), 9=1143/0-4-0 (min. 0-1-15)
 Max Horz 15=270(LC 15)
 Max Uplift 15=-129(LC 16), 9=-129(LC 17)
 Max Grav 15=1663(LC 39), 9=1663(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1808/218, 3-4=-1430/285, 4-16=-924/274, 5-16=-924/274, 5-6=-1431/286,
 6-7=-1808/218, 2-15=-1611/246, 7-9=-1611/246
 BOT CHORD 14-15=-243/372, 13-14=-118/1247, 12-13=-118/1247, 12-17=-45/923, 11-17=-45/923,
 10-11=-29/1246
 WEBS 3-12=-452/186, 4-12=-78/468, 5-11=-64/423, 6-11=-450/186, 2-14=-19/1060,
 7-10=-20/1059

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15; Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow); Lumber DOL=1.15 Plate DOL=1.15; Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=129, 9=129.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T13	Hip	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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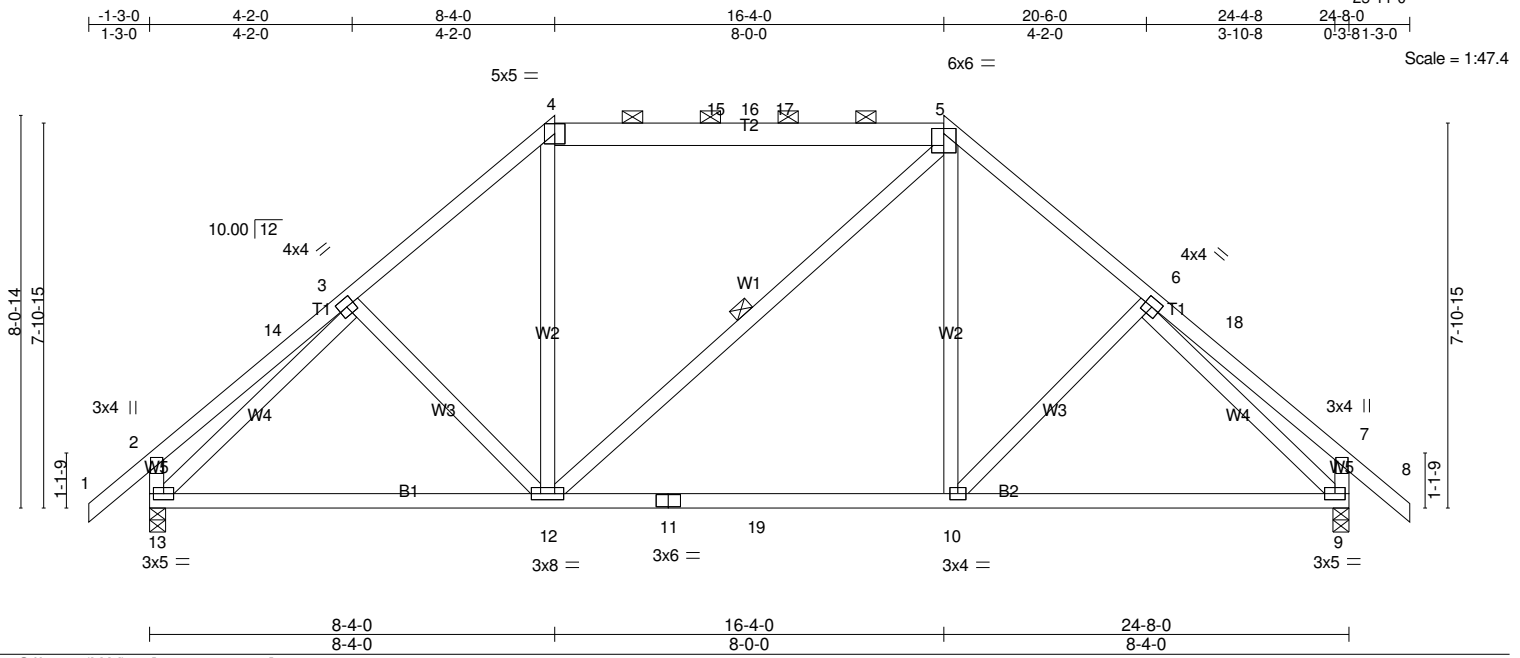


Plate Offsets (X,Y)-- [5:0-3-0,0-1-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.45	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.61	Vert(LL) -0.14 10-12 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.84	Vert(CT) -0.21 10-12 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.04 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 166 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2 *Except*
 T2: 2x6 SP 2400F 2.0E
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-6-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 5-12

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 13=1143/0-4-0 (min. 0-1-14), 9=1143/0-4-0 (min. 0-1-14)
 Max Horz 13=229(LC 15)
 Max Uplift 13=-138(LC 16), 9=-138(LC 17)
 Max Grav 13=1564(LC 39), 9=1564(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-14=-329/110, 3-4=-1310/268, 4-15=-886/257, 15-16=-886/257, 16-17=-886/257,
 5-17=-886/257, 5-6=-1309/268, 7-18=-329/110, 2-13=-525/159, 7-9=-525/159
 BOT CHORD 12-13=-147/1037, 11-12=-18/886, 11-19=-18/886, 10-19=-18/886, 9-10=-60/1037
 WEBS 4-12=-5/365, 5-10=-16/439, 3-13=-1321/152, 6-9=-1320/152

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=138, 9=138.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job 21-3743-A	Truss T14	Truss Type Hip Girder	Qty 1	Ply 2	CAIN BUILDERS-MILLER-KOERNER ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

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25-11-0

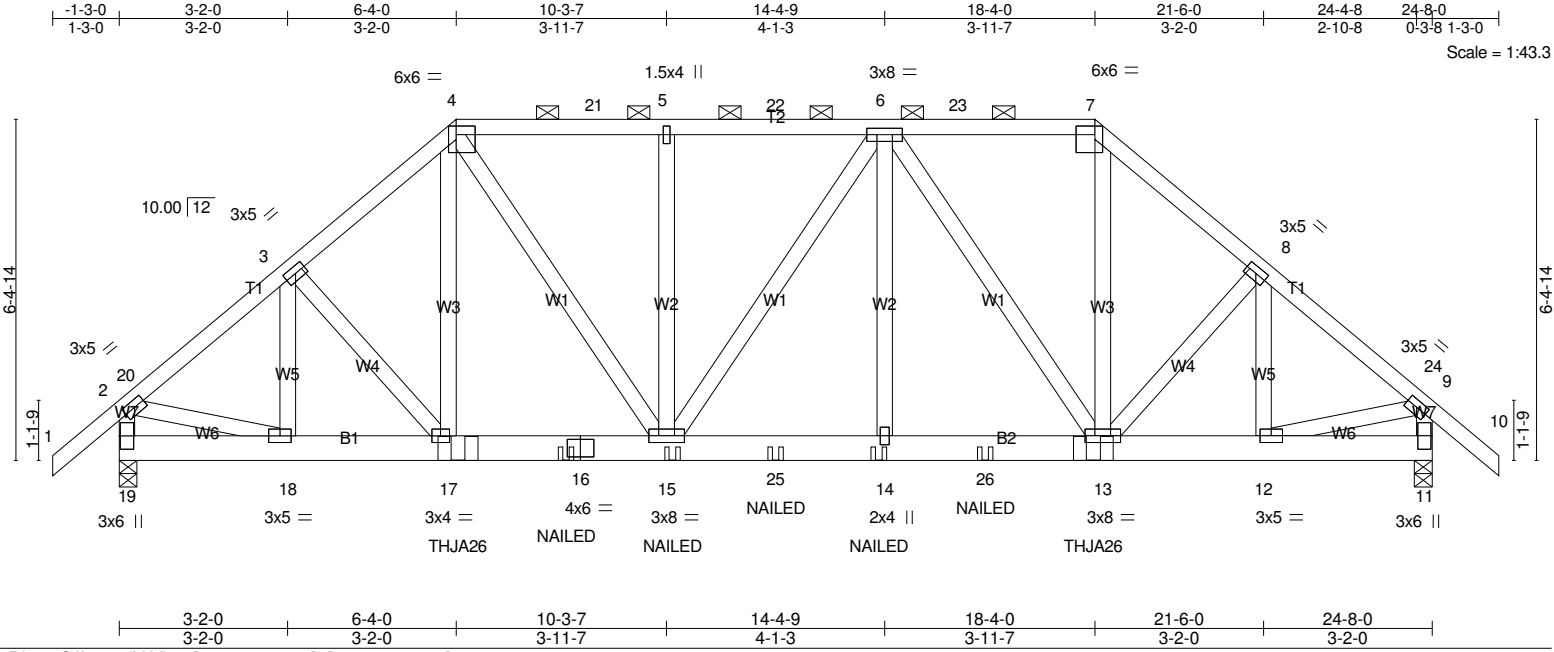


Plate Offsets (X,Y)-- [4:0-4-4,0-2-0], [7:0-4-4,0-2-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.25	Vert(LL)	-0.06	14-15	>999	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.40	Vert(CT)	-0.09	14-15	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.43	Horz(CT)	0.03	11	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 401 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 19=2482/0-4-0 (min. 0-1-10), 11=2488/0-4-0 (min. 0-1-10)
 Max Horz 19=-187(LC 14)
 Max Uplift 19=-768(LC 16), 11=-771(LC 17)
 Max Grav 19=2723(LC 39), 11=2729(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-20=-2878/911, 3-20=-2864/932, 3-4=-3210/1110, 4-21=-3190/1092, 5-21=-3190/1092, 5-22=-3190/1092, 6-22=-3190/1092, 6-23=-2409/875, 7-23=-2409/875, 7-8=-3222/1116, 8-24=-2868/934, 9-24=-2882/914, 2-19=-2629/851, 9-11=-2632/853
 BOT CHORD 18-19=-194/268, 17-18=-700/2166, 16-17=-762/2426, 15-16=-762/2426, 15-25=-922/3182, 14-25=-922/3182, 14-26=-922/3182, 13-26=-922/3182, 12-13=-602/2167
 WEBS 3-18=-616/240, 3-17=-280/419, 4-17=-306/787, 4-15=-438/1394, 5-15=-523/118, 6-14=-200/642, 6-13=-1377/429, 7-13=-623/1775, 8-13=-283/434, 8-12=-627/245, 2-18=-611/2076, 9-12=-611/2072

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-10; Pr=30.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=768, 11=771.

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T14	Hip Girder	1	2	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:24 2021 Page 2
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NOTES-

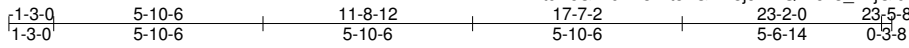
- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Right Hand Hip) or equivalent at 6-4-6 from the left end to connect truss(es) J01 (1 ply 2x4 SP), CJ01 (1 ply 2x6 SP) to back face of bottom chord.
- 15) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Left Hand Hip) or equivalent at 18-3-10 from the left end to connect truss(es) J01 (1 ply 2x4 SP), CJ01 (1 ply 2x6 SP) to back face of bottom chord.
- 16) Fill all nail holes where hanger is in contact with lumber.
- 17) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-2=-66, 2-4=-66, 4-7=-66, 7-9=-66, 9-10=-66, 11-19=-20
 - Concentrated Loads (lb)
 - Vert: 16=-260(B) 17=-692(B) 15=-260(B) 14=-260(B) 13=-692(B) 25=-260(B) 26=-260(B)

Job 21-3743-A	Truss T15	Truss Type Common	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
Riverside Roof Truss, LLC, Danville, VA. 24541					Job Reference (optional)

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:25 2021 Page 1
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Scale: 3/16"=1'

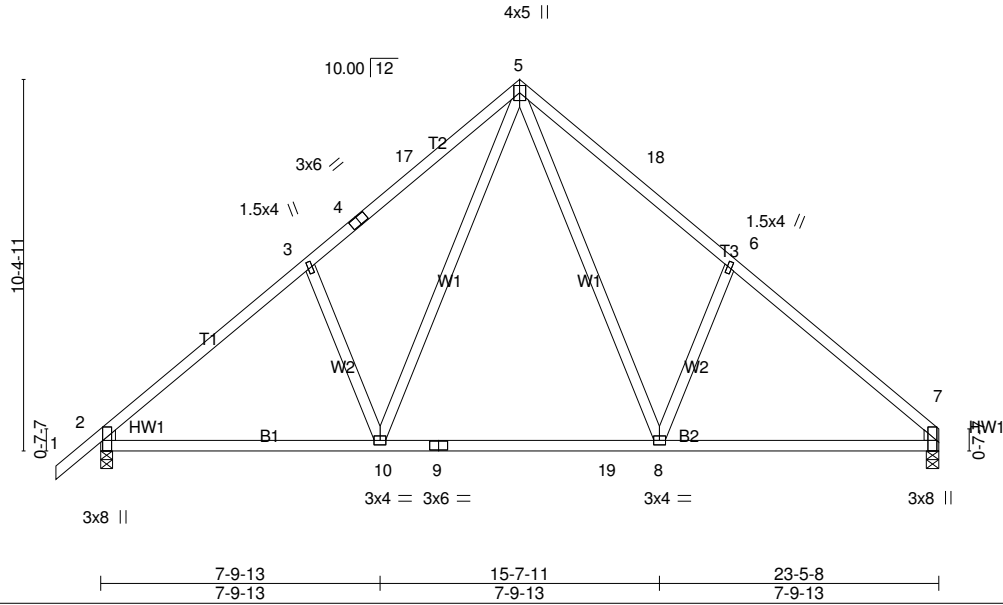


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [7:0-3-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.62	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.64	Vert(LL) -0.20 8-10 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.43	Vert(CT) -0.28 8-10 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.03 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 131 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-1-11 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=1096/0-4-0 (min. 0-1-8), 7=1009/0-4-4 (min. 0-1-8)
 Max Horz 2=259(LC 13)
 Max Uplift 2=114(LC 16), 7=-87(LC 17)
 Max Grav 2=1276(LC 2), 7=1170(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1475/226, 3-4=-1323/309, 4-17=-1162/329, 5-17=-1159/350, 5-18=-1166/353,
 6-18=-1330/330, 6-7=-1480/228
 BOT CHORD 2-10=-158/1131, 9-10=0/739, 9-19=0/739, 8-19=0/739, 7-8=-73/1042
 WEBS 5-8=-191/682, 6-8=-418/280, 5-10=-185/667, 3-10=-411/278

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 2=114.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T16	Hip	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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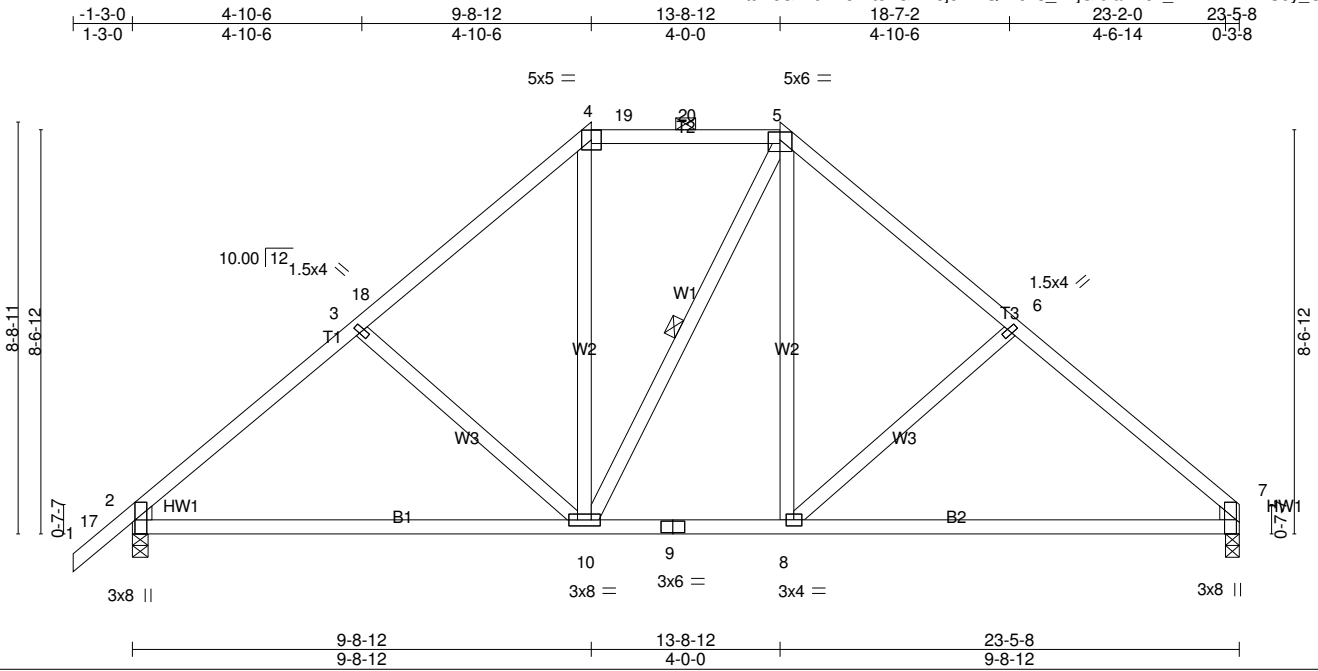


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [5:0-3-0,0-2-1], [7:0-3-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.63	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.69	Vert(LL) -0.17 8-16 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.39	Vert(CT) -0.35 8-16 >803 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.04 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 138 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-6 oc purlins, except 2-0-0 oc purlins (5-9-6 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-10

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=1096/0-4-0 (min. 0-1-15), 7=1009/0-3-8 (min. 0-1-12)
Max Horz 2=216(LC 15)
Max Uplift 2=-126(LC 16), 7=-98(LC 17)
Max Grav 2=1621(LC 39), 7=1502(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1889/252, 3-18=-1468/223, 4-18=-1431/261, 4-19=-961/256, 19-20=-961/256,
5-20=-961/256, 5-6=-1472/262, 6-7=-1895/255
BOT CHORD 2-10=-168/1335, 9-10=0/962, 8-9=0/962, 7-8=-106/1344
WEBS 3-10=-487/205, 4-10=-46/452, 5-8=-63/503, 6-8=-498/209

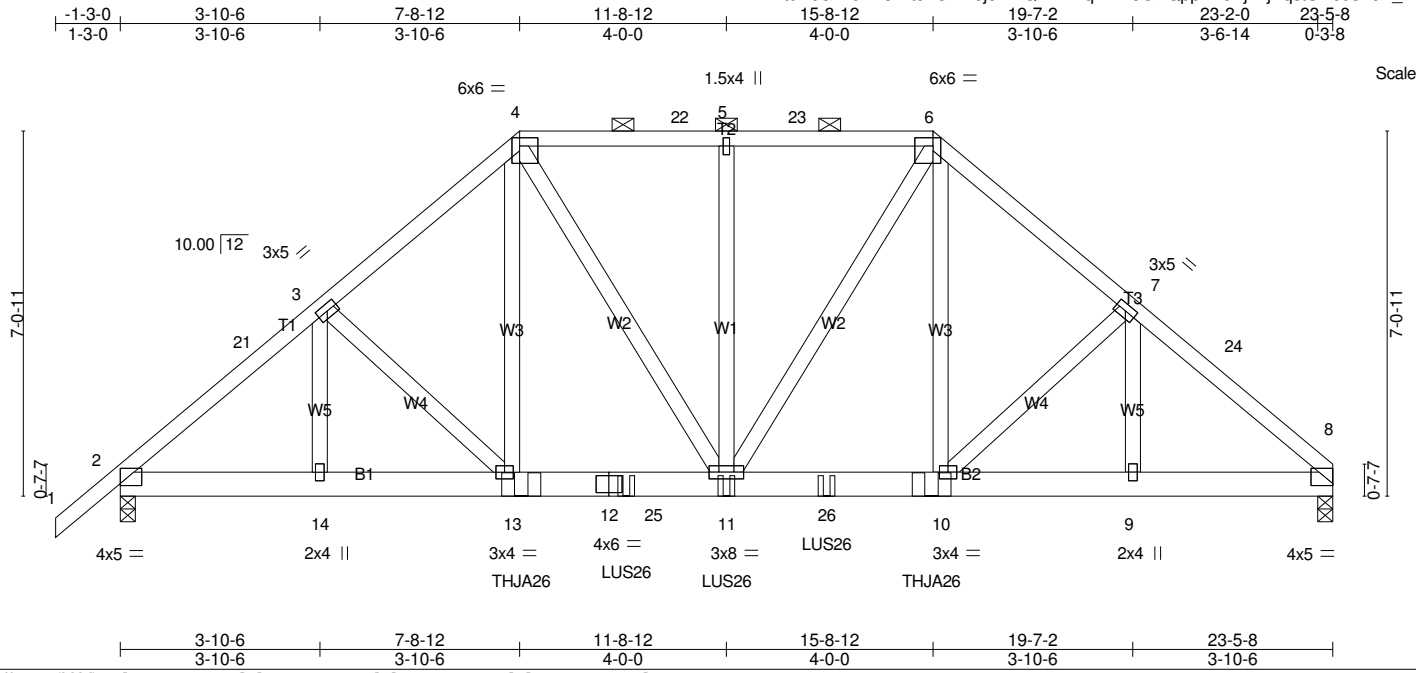
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 2=126.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job 21-3743-A	Truss T17	Truss Type Hip Girder	Qty 1	Ply 2	CAIN BUILDERS-MILLER-KOERNER ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:44.6

Plate Offsets (X,Y)-- [2:0-0-0,0-0-7], [4:0-4-4,0-2-0], [6:0-4-4,0-2-0], [8:0-0-0,0-0-7]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.31	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.46	Vert(LL) -0.06 10-11 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.31	Vert(CT) -0.09 10-11 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.03 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 345 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 8=2543/0-3-8 (min. 0-1-11), 2=2630/0-3-8 (min. 0-1-12)
 Max Horz 2=177(LC 65)
 Max Uplift 8=606(LC 17), 2=634(LC 16)
 Max Grav 8=2855(LC 39), 2=3018(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-21=-3884/919, 3-21=-3628/944, 3-4=-3677/1029, 4-22=-3099/917, 5-22=-3099/917, 5-23=-3099/917, 6-23=-3099/917, 6-7=-3684/1030, 7-24=-3661/951, 8-24=-3914/927
 BOT CHORD 2-14=-695/2865, 13-14=-695/2865, 12-13=-659/2698, 12-25=-659/2698, 11-25=-659/2698, 11-26=-592/2700, 10-26=-592/2700, 9-10=-658/2891, 8-9=-658/2891
 WEBS 3-13=-413/242, 4-13=-405/1463, 4-11=-254/826, 5-11=-556/134, 6-11=-254/824, 6-10=-409/1475, 7-10=-439/251

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=606, 2=634.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T17	Hip Girder	1	2	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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NOTES-

- 14) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Right Hand Hip) or equivalent at 7-9-2 from the left end to connect truss(es) J06 (1 ply 2x4 SP), CJ02 (1 ply 2x6 SP) to back face of bottom chord.
- 15) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent spaced at 1-11-4 oc max. starting at 9-9-8 from the left end to 13-8-0 to connect truss(es) J06 (1 ply 2x4 SP) to back face of bottom chord.
- 16) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Left Hand Hip) or equivalent at 15-8-6 from the left end to connect truss(es) J06 (1 ply 2x4 SP), CJ02 (1 ply 2x6 SP) to back face of bottom chord.
- 17) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-66, 4-6=-66, 6-8=-66, 15-18=-20

Concentrated Loads (lb)

Vert: 13=-1018(B) 11=-344(B) 10=-1018(B) 25=-344(B) 26=-344(B)

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T18	Piggyback Base	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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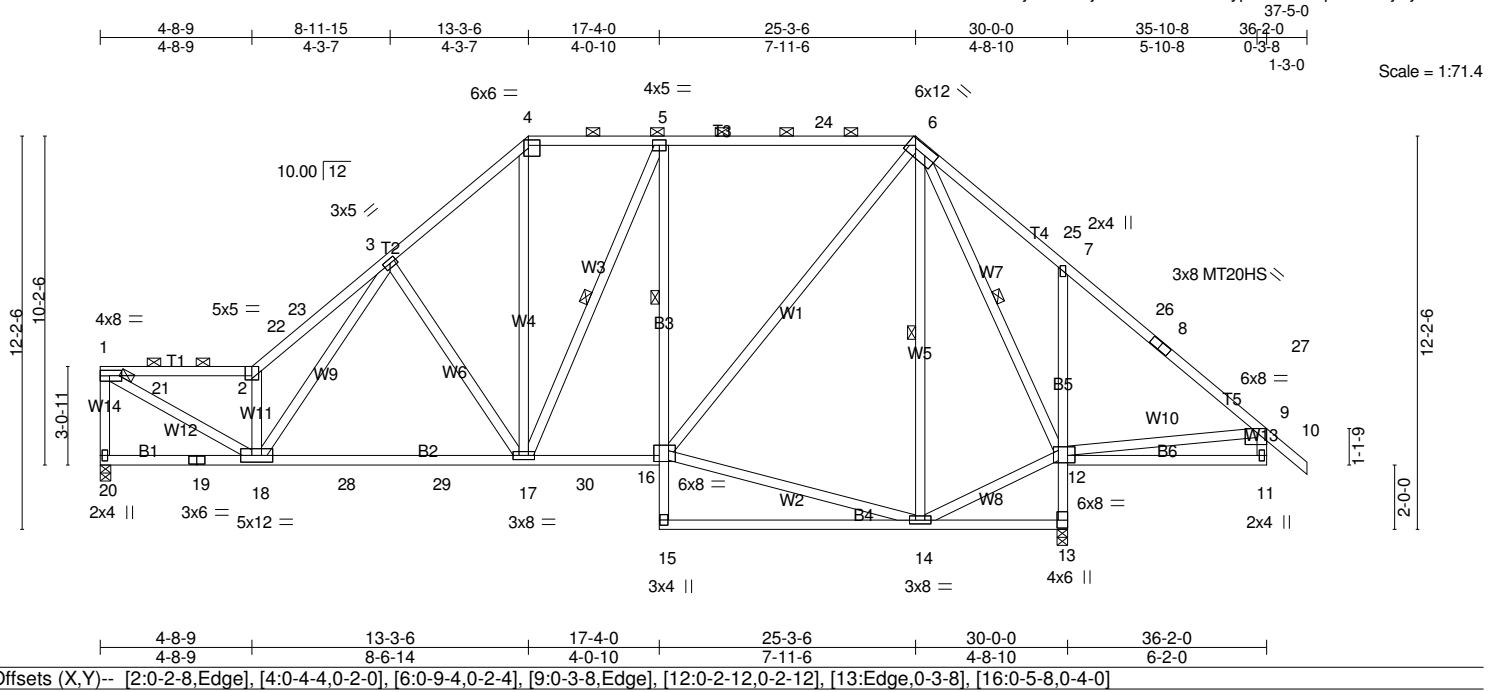


Plate Offsets (X,Y)-- [2:0-2-8,Edge], [4:0-4-4,0-2-0], [6:0-9-4,0-2-4], [9:0-3-8,Edge], [12:0-2-12,0-2-12], [13:Edge,0-3-8], [16:0-5-8,0-4-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 1.00	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.79	Vert(LL) -0.20 17-18 >999 360	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.98	Vert(CT) -0.37 17-18 >957 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.06 13 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 293 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2 *Except*
 T3: 2x4 SP DSS
 BOT CHORD 2x4 SP No.2 *Except*
 B3,B5: 2x4 SP No.3
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-4-0 max.): 1-2, 4-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14 3-2-15 oc bracing: 12-13.
 WEBS 1 Row at midpt 5-16
 1 Row at midpt 5-17, 6-14, 6-12

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 20=1204/0-4-0 (min. 0-1-13), 13=1981/0-4-0 (min. 0-2-15)
 Max Horz 20=-299(LC 12)
 Max Uplift 20=-120(LC 16), 13=-148(LC 17)
 Max Grav 20=1516(LC 40), 13=2466(LC 41)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-20=-1472/195, 1-21=-2083/257, 2-21=-2083/257, 2-22=-2656/375, 22-23=-2565/379,
 3-23=-2562/398, 3-4=-1509/303, 4-5=-1102/275, 5-24=-1221/278, 6-24=-1221/278,
 6-25=-22/761, 7-25=-27/426, 7-26=-215/835, 8-26=-220/603, 8-27=-241/587,
 9-27=-244/371
 BOT CHORD 19-20=-241/268, 18-19=-241/268, 18-28=-199/1404, 28-29=-199/1404, 17-29=-199/1404,
 17-30=-165/1211, 16-30=-165/1214, 5-16=-682/210, 12-13=-2444/623, 7-12=-713/310,
 11-12=-127/295
 WEBS 1-18=-267/2369, 2-18=-1951/349, 3-18=-163/1074, 3-17=-793/243, 4-17=-107/750,
 5-17=-276/414, 14-16=-79/483, 6-16=-170/1204, 12-14=-68/560, 6-12=-1701/315,
 9-12=-754/427

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21-3743-A	T18	Piggyback Base	1	1	CAIN BUILDERS-MILLER-KOERNER ROOF

Riverside Roof Truss, LLC, Danville, VA. 24541

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NOTES-

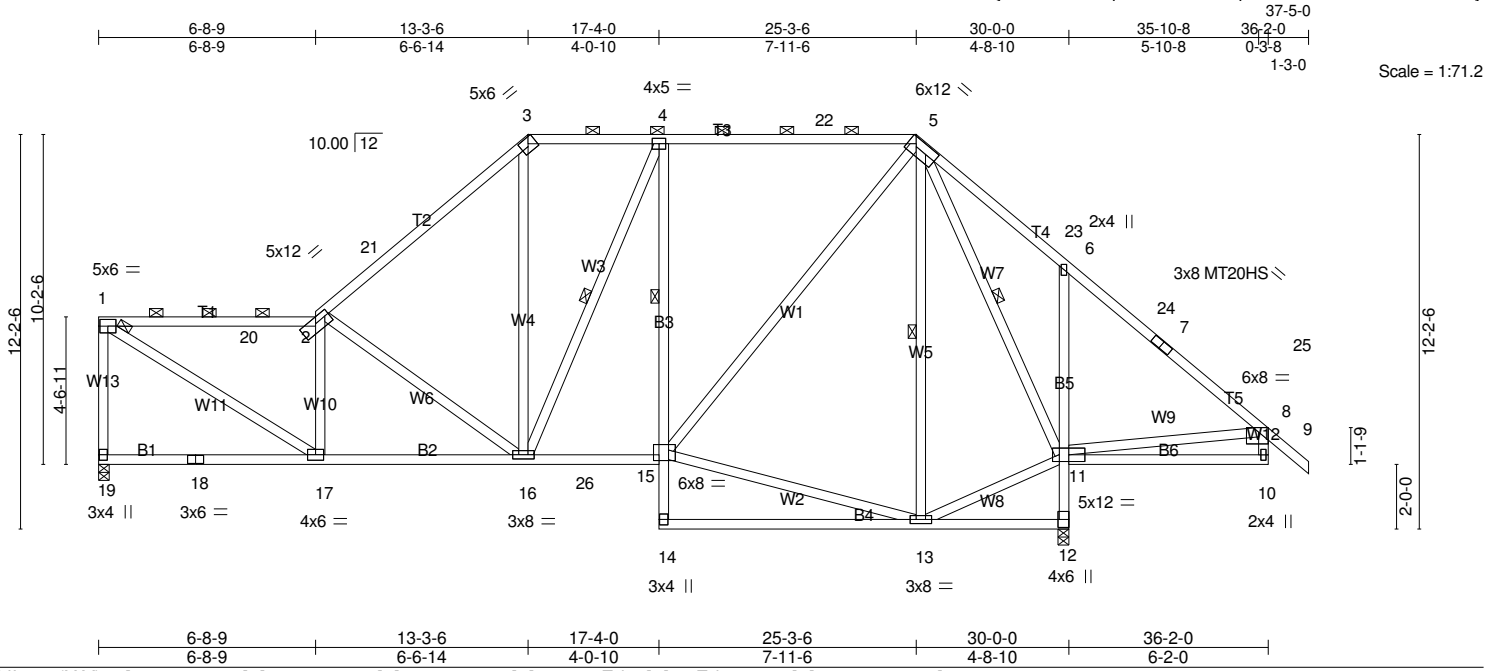
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=120, 13=148.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T19	Piggyback Base	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:71.2

Plate Offsets (X,Y)-- [2:0-6-0,0-2-0], [3:0-3-2,0-2-2], [5:0-9-4,0-2-4], [8:0-3-8,Edge], [12:Edge,0-3-8], [15:0-5-8,0-4-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.99	Vert(LL) -0.12	13-14	>999	360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.55	Vert(CT) -0.26	13-14	>999	240	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.98	Horz(CT) 0.06	12	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 290 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP DSS *Except*
T4, T5: 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B3, B5: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
W13: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-0-12 max.): 1-2, 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 12-13
3-3-5 oc bracing: 11-12.
1 Row at midpt 4-15
1 Row at midpt 4-16, 5-13, 5-11

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 19=1204/0-4-0 (min. 0-1-15), 12=1981/0-4-0 (min. 0-2-14)
Max Horz 19=-317(LC 12)
Max Uplift 19=-129(LC 16), 12=-148(LC 17)
Max Grav 19=1662(LC 40), 12=2433(LC 41)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-19=-1595/228, 1-20=-1910/270, 2-20=-1907/271, 2-21=-1618/231, 3-21=-1532/266,
3-4=-1155/283, 4-22=-1264/270, 5-22=-1264/270, 5-23=-23/762, 6-23=-27/427,
6-24=-215/835, 7-24=-220/603, 7-25=-241/587, 8-25=-244/372
BOT CHORD 18-19=-229/275, 17-18=-229/275, 16-17=-200/1872, 16-26=-163/1255, 15-26=-162/1258,
4-15=-697/216, 11-12=-2411/624, 6-11=-712/310, 10-11=-127/296
WEBS 1-17=-280/2192, 2-17=-1047/241, 2-16=-850/222, 3-16=-71/774, 4-16=-268/361,
13-15=-76/493, 5-15=-168/1253, 8-11=-755/427, 11-13=-68/560, 5-11=-1702/315

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- The Fabrication Tolerance at joint 2 = 8%, joint 3 = 8%
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=129 12=148.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21-3743-A	T19	Piggyback Base	1	1	CAIN BUILDERS-MILLER-KOERNER ROOF

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:29 2021 Page 2
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NOTES-

- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job 21-3743-A	Truss T20	Truss Type Piggyback Base	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:30 2021 Page 1
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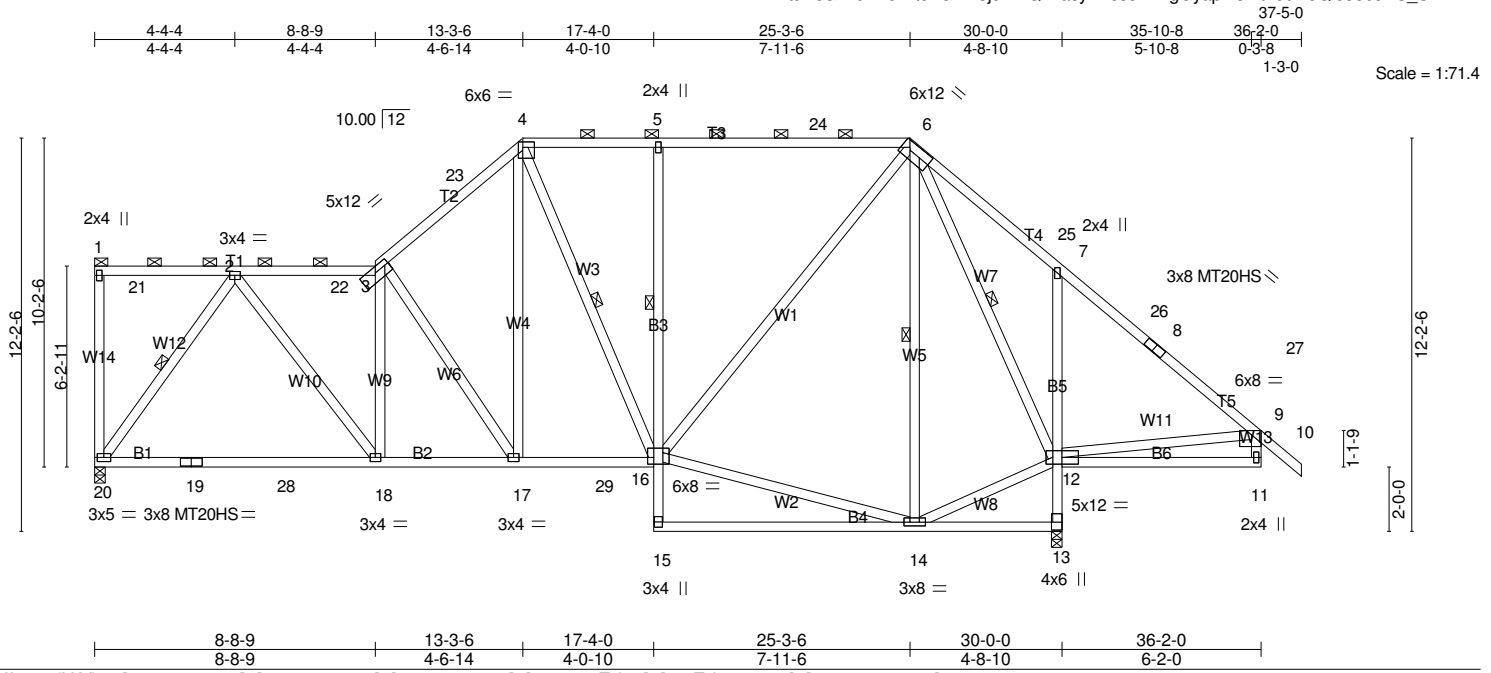


Plate Offsets (X,Y)-- [3:0-6-0-0-2-0], [4:0-4-4-0-2-0], [6:0-9-4-0-2-4], [9:0-3-8,Edge], [13:Edge,0-3-8], [16:0-2-4-0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.99	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.83	Vert(LL) -0.19 18-20 >999 360	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.98	Vert(CT) -0.37 18-20 >956 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.06 13 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 304 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2 *Except*
 T3: 2x4 SP DSS
 BOT CHORD 2x4 SP No.2 *Except*
 B3,B5: 2x4 SP No.3
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-11-1 max.): 1-3, 4-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14 3-3-14 oc bracing: 12-13.
 WEBS 1 Row at midpt 5-16
 2-20, 4-16, 6-14, 6-12

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 20=1204/0-4-0 (min. 0-2-2), 13=1981/0-4-0 (min. 0-2-13)
 Max Horz 20=-338(LC 12)
 Max Uplift 20=-144(LC 16), 13=-147(LC 17)
 Max Grav 20=1796(LC 40), 13=2387(LC 41)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-22=-1743/253, 3-22=-1739/253, 3-23=-1688/278, 4-23=-1623/296, 4-5=-1291/269, 5-24=-1299/272, 6-24=-1299/272, 6-25=-22/761, 7-25=-27/427, 7-26=-215/835, 8-26=-220/603, 8-27=-241/587, 9-27=-244/372
 BOT CHORD 19-20=-189/1084, 19-28=-189/1084, 18-28=-189/1084, 17-18=-176/1723, 17-29=-151/1228, 16-29=-151/1228, 5-16=-932/206, 12-13=-2365/623, 7-12=-713/310, 11-12=-127/296
 WEBS 2-20=-1845/269, 2-18=-100/1085, 3-18=-704/184, 3-17=-813/187, 4-17=-111/718, 4-16=-327/163, 14-16=-74/510, 6-16=-164/1295, 9-12=-754/427, 12-14=-67/578, 6-12=-1701/315

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=144 13=147.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21-3743-A	T20	Piggyback Base	1	1	CAIN BUILDERS-MILLER-KOERNER ROOF

Riverside Roof Truss, LLC, Danville, VA. 24541

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NOTES-

- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job 21-3743-A	Truss T21	Truss Type Piggyback Base	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
Riverside Roof Truss, LLC, Danville, VA. 24541					Job Reference (optional)

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:31 2021 Page 1
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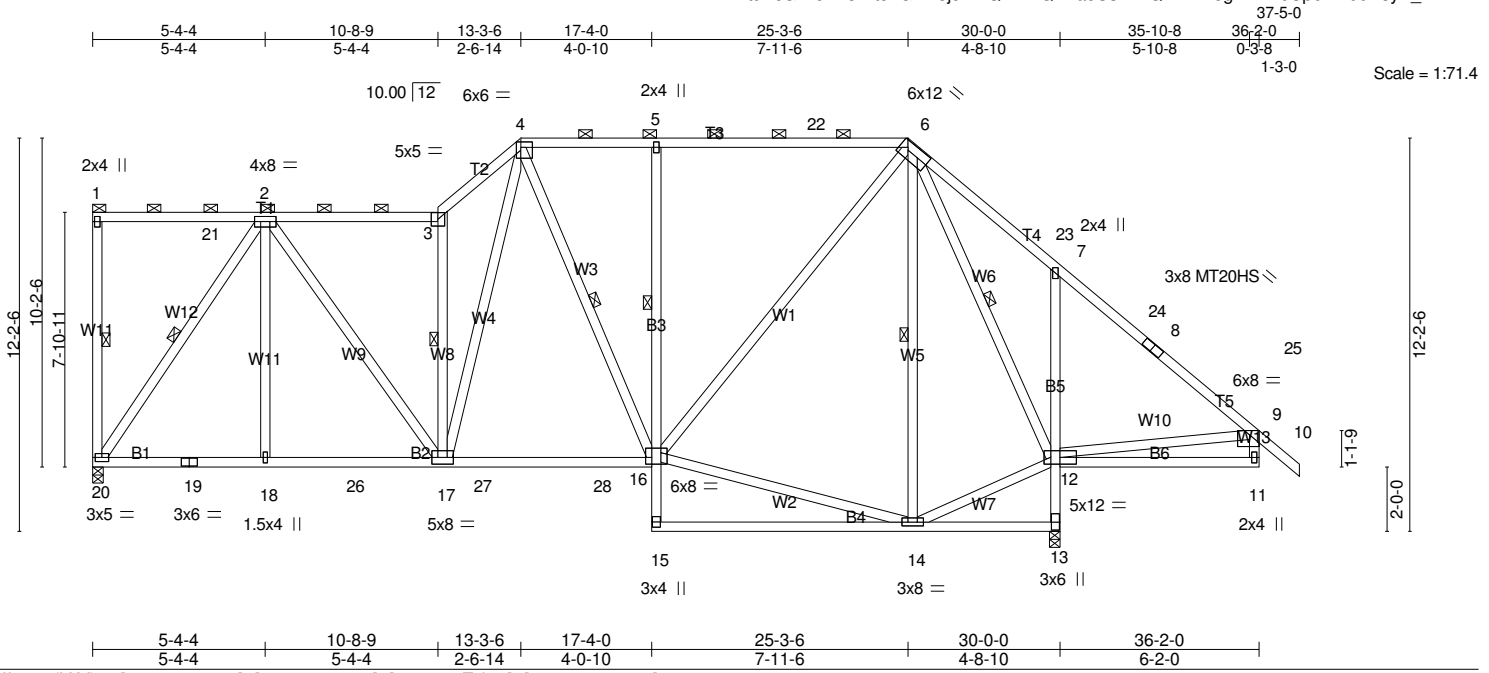


Plate Offsets (X,Y)-- [4:0-4-4,0-2-0], [6:0-9-4,0-2-4], [9:0-3-8,Edge], [16:0-2-4,0-2-8]					
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.99	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.70	Vert(LL) -0.16 16-17 >999 360	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.99	Vert(CT) -0.26 14-15 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.06 13 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 314 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* T3: 2x4 SP DSS	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-1-0 max.): 1-3, 4-6.
BOT CHORD 2x4 SP No.2 *Except* B3,B5: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 3-4-8 oc bracing. Except: 1 Row at midpt 5-16
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 1-20, 2-20, 3-17, 4-16, 6-14, 6-12
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 20=1204/0-4-0 (min. 0-2-4), 13=1981/0-4-0 (min. 0-2-12)
Max Horz 20=-360(LC 12)
Max Uplift 20=-201(LC 12), 13=-146(LC 17)
Max Grav 20=1917(LC 41), 13=2329(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-20=-256/73, 2-3=-1634/259, 3-4=-2169/405, 4-5=-1366/269, 5-22=-1373/272,
6-22=-1373/272, 6-23=-22/761, 7-23=-27/427, 7-24=-215/835, 8-24=-220/603,
8-25=-241/587, 9-25=-244/372
BOT CHORD 19-20=-159/1120, 18-19=-159/1120, 18-26=-159/1120, 17-26=-159/1120, 17-27=-151/1318,
27-28=-151/1318, 16-28=-151/1318, 5-16=-934/203, 12-13=-2307/623, 7-12=-713/310,
11-12=-127/296
WEBS 2-20=-1955/254, 2-18=0/264, 2-17=-126/878, 3-17=-1723/358, 4-17=-233/1175,
14-16=-70/559, 6-16=-162/1379, 9-12=-755/427, 12-14=-67/609, 6-12=-1726/314

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow); Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=201, 13=146.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21-3743-A	T21	Piggyback Base	1	1	CAIN BUILDERS-MILLER-KOERNER ROOF

Riverside Roof Truss, LLC, Danville, VA. 24541

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NOTES-

12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T22	Piggyback Base	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:32 2021 Page 1
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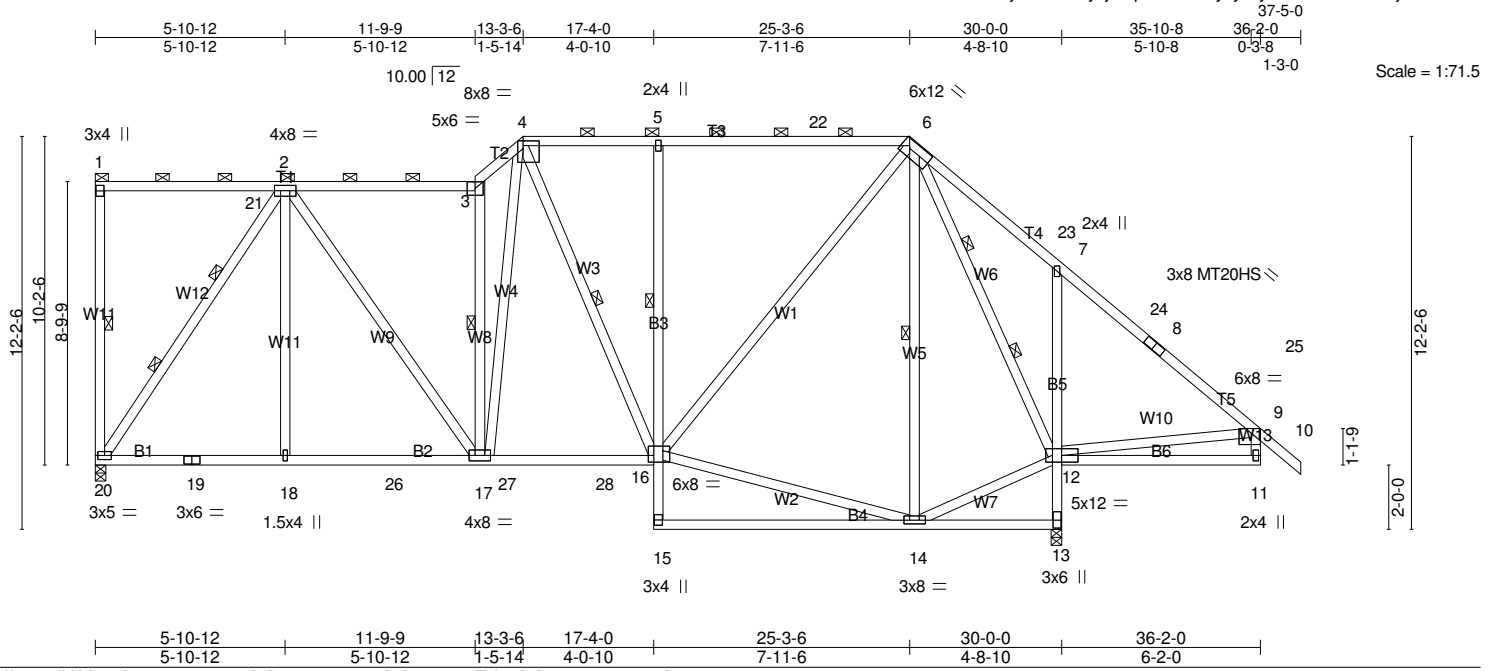


Plate Offsets (X,Y)-- [4:0-6-0,0-1-12], [6:0-9-4,0-2-4], [9:0-3-8,Edge], [16:0-2-0,0-2-8]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL (roof) 30.0	Plate Grip DOL 1.15	TC 0.99	Vert(LL) -0.12 16-17 >999 360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Lumber DOL 1.15	BC 0.71	Vert(CT) -0.26 14-15 >999 240	MT20HS	187/143
TCDL 10.0	Rep Stress Incr YES	WB 0.84	Horz(CT) 0.06 13 n/a n/a		
BCLL 0.0 *	Code IRC2015/TPI2014	Matrix-MS			
BCDL 10.0				Weight: 320 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* T1: 2x4 SP No.1, T3: 2x4 SP DSS	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-8-6 max.): 1-3, 4-6.
BOT CHORD 2x4 SP No.2 *Except* B3,B5: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14 3-4-11 oc bracing: 12-13.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-16 1 Row at midpt 1-20, 3-17, 4-16, 6-14 2 Rows at 1/3 pts 2-20, 6-12
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 20=1204/0-4-0 (min. 0-2-5), 13=1981/0-4-0 (min. 0-2-11)
Max Horz 20=-372(LC 12)
Max Uplift 20=-232(LC 12), 13=-145(LC 17)
Max Grav 20=1978(LC 41), 13=2304(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-20=-281/82, 2-3=-1584/265, 3-4=-2132/396, 4-5=-1410/269, 5-22=-1417/272,
6-22=-1417/272, 6-23=-22/761, 7-23=-27/427, 7-24=-215/835, 8-24=-220/603,
8-25=-241/587, 9-25=-244/372
BOT CHORD 19-20=-148/1135, 18-19=-148/1135, 18-26=-148/1135, 17-26=-148/1135, 17-27=-148/1385,
27-28=-148/1385, 16-28=-148/1385, 5-16=-927/204, 12-13=-2281/623, 7-12=-713/310,
11-12=-127/296
WEBS 2-20=-1986/268, 2-18=0/325, 2-17=-129/790, 3-17=-1746/355, 14-16=-73/556,
6-16=-163/1427, 9-12=-755/427, 4-17=-238/1235, 12-14=-67/622, 6-12=-1759/314

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-10; Pr=30.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15; Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow); Lumber DOL=1.15 Plate DOL=1.15; Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21-3743-A	T22	Piggyback Base	1	1	CAIN BUILDERS-MILLER-KOERNER ROOF

Riverside Roof Truss, LLC, Danville, VA. 24541

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NOTES-

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=232, 13=145.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job 21-3743-A	Truss T23	Truss Type Piggyback Base	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

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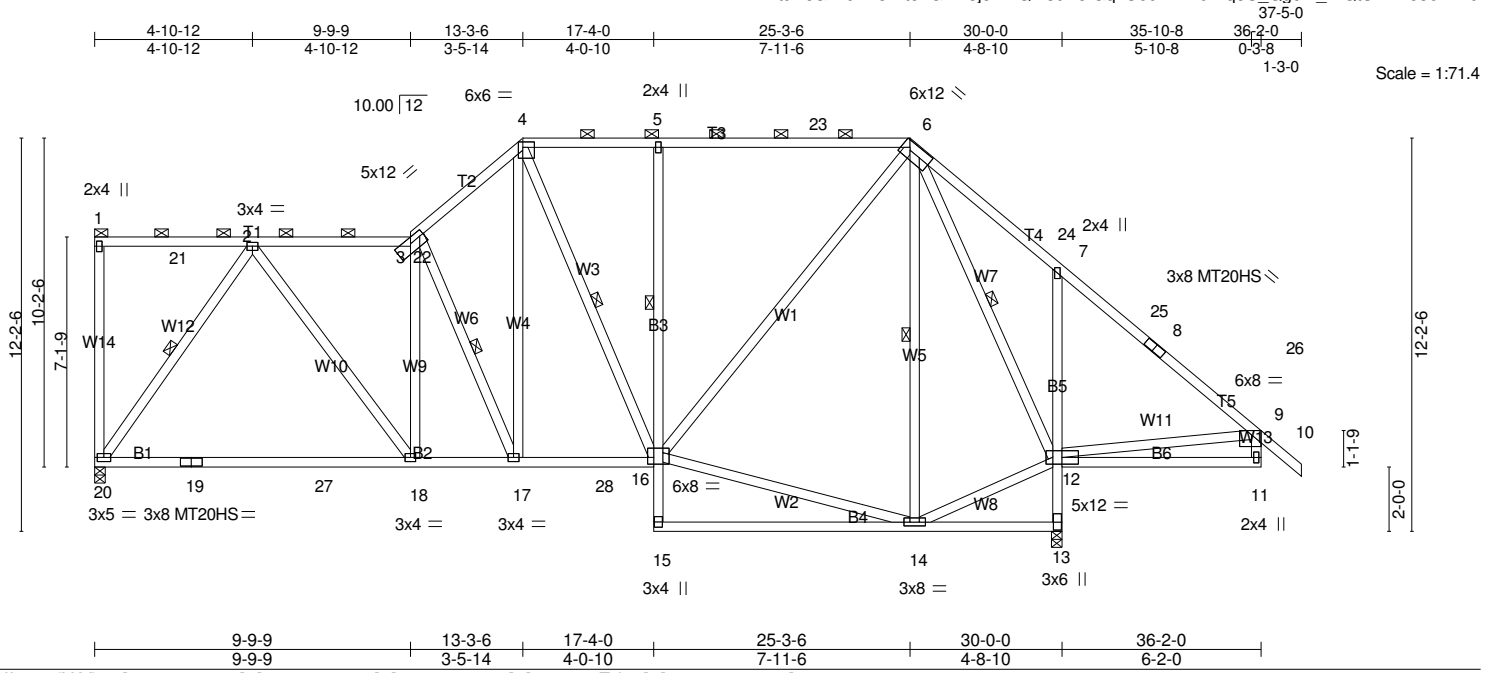


Plate Offsets (X,Y)-- [3:0-6-0-0-2-0], [4:0-4-4-0-2-0], [6:0-9-4-0-2-4], [9:0-3-8,Edge], [16:0-2-4-0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.99	Vert(LL)	-0.26 18-20	>999	360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.71	Vert(CT)	-0.47 18-20	>751	240	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.98	Horz(CT)	0.05 13	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 310 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
T3: 2x4 SP DSS
BOT CHORD 2x4 SP No.3 *Except*
B1: 2x4 SP No.1, B4,B6: 2x4 SP No.2, B2: 2x4 SP DSS
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-8-11 max.): 1-3, 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14
3-4-3 oc bracing: 12-13.
1 Row at midpt 5-16
1 Row at midpt 2-20, 3-17, 4-16, 6-14, 6-12

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 20=1204/0-4-0 (min. 0-2-3), 13=1981/0-4-0 (min. 0-2-13)
Max Horz 20=-350(LC 12)
Max Uplift 20=-173(LC 12), 13=-146(LC 17)
Max Grav 20=1863(LC 41), 13=2357(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-22=-1691/251, 3-22=-1687/251, 3-4=-1753/314, 4-5=-1329/270, 5-23=-1336/272,
6-23=-1336/272, 6-24=-22/761, 7-24=-27/427, 7-25=-215/835, 8-25=-220/603,
8-26=-241/587, 9-26=-244/372
BOT CHORD 19-20=-180/1086, 19-27=-180/1086, 18-27=-180/1086, 17-18=-164/1675, 17-28=-150/1275,
16-28=-150/1275, 5-16=-936/204, 12-13=-2335/623, 7-12=-713/310, 11-12=-127/296
WEBS 2-20=-1874/283, 2-18=-83/1016, 3-18=-628/192, 3-17=-888/179, 4-17=-143/823,
4-16=-281/147, 14-16=-73/521, 6-16=-164/1336, 9-12=-754/427, 12-14=-67/591,
6-12=-1701/315

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=173 13=146.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21-3743-A	T23	Piggyback Base	1	1	CAIN BUILDERS-MILLER-KOERNER ROOF

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:33 2021 Page 2
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NOTES-

- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T24	Piggyback Base	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:34 2021 Page 1
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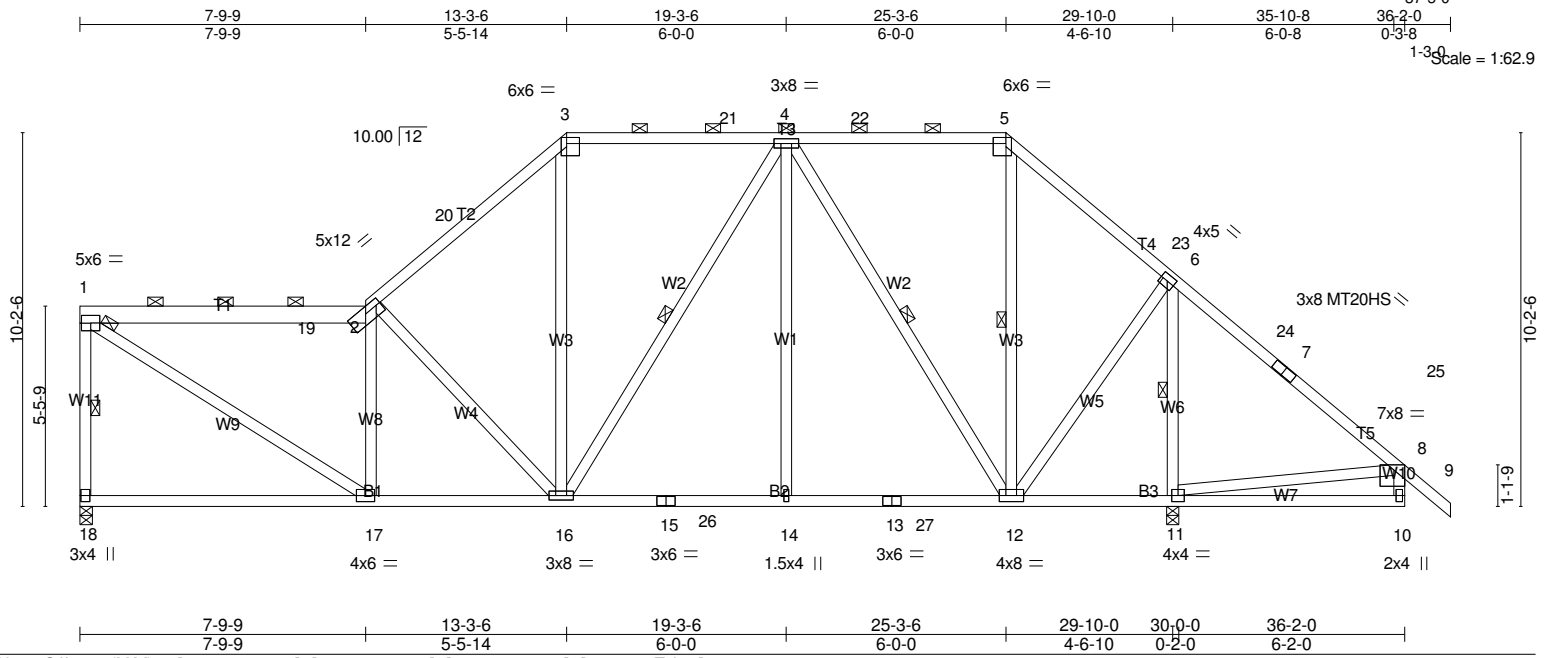


Plate Offsets (X,Y)-- [2:0-6-0,0-2-0], [3:0-4-4,0-2-0], [5:0-4-4,0-2-0], [8:0-3-8,Edge]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL (roof) 30.0	Plate Grip DOL 1.15	TC 1.00	Vert(LL) -0.12 17-18 >999 360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Lumber DOL 1.15	BC 0.58	Vert(CT) -0.25 17-18 >999 240	MT20HS	187/143
TCDL 10.0	Rep Stress Incr YES	WB 0.87	Horz(CT) 0.04 11 n/a n/a		
BCLL 0.0 *	Code IRC2015/TPI2014	Matrix-MS			
BCDL 10.0				Weight: 269 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
T1: 2x6 SP 2400F 2.0E, T3: 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-7-14 max.): 1-2, 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-12.
WEBS 1 Row at midpt 1-18, 4-16, 4-12, 5-12, 6-11

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 18=1203/0-4-0 (min. 0-2-1), 11=1982/0-4-0 (min. 0-2-14)
Max Horz 18=-324(LC 12)
Max Uplift 18=-135(LC 16), 11=-147(LC 17)
Max Grav 18=1734(LC 40), 11=2411(LC 41)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=-1659/245, 1-19=-1810/261, 2-19=-1800/262, 2-20=-1651/260, 3-20=-1542/283,
3-21=-1200/282, 4-21=-1200/282, 4-22=-552/159, 5-22=-552/159, 5-23=-682/149,
6-23=-771/118, 6-24=-216/842, 7-24=-221/602, 7-25=-241/594, 8-25=-245/370
BOT CHORD 17-18=-225/285, 16-17=-189/1776, 16-26=-144/1188, 15-26=-144/1188, 14-15=-144/1188,
13-14=-144/1188, 13-27=-144/1188, 12-27=-144/1188, 11-12=-456/314, 10-11=-135/317
WEBS 1-17=-273/2112, 2-17=-1016/242, 2-16=-791/206, 3-16=-28/636, 4-16=-101/378,
4-14=0/367, 4-12=-1206/191, 6-12=-141/1277, 6-11=-2170/475, 8-11=-782/437

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - 6) Provide adequate drainage to prevent water ponding.
 - 7) All plates are MT20 plates unless otherwise indicated.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCCL = 10.0psf.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=135, 11=147.
 - 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21-3743-A	T24	Piggyback Base	1	1	CAIN BUILDERS-MILLER-KOERNER ROOF

Riverside Roof Truss, LLC, Danville, VA. 24541

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LOAD CASE(S) Standard

Job 21-3743-A	Truss T25	Truss Type Piggyback Base	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:35 2021 Page 1
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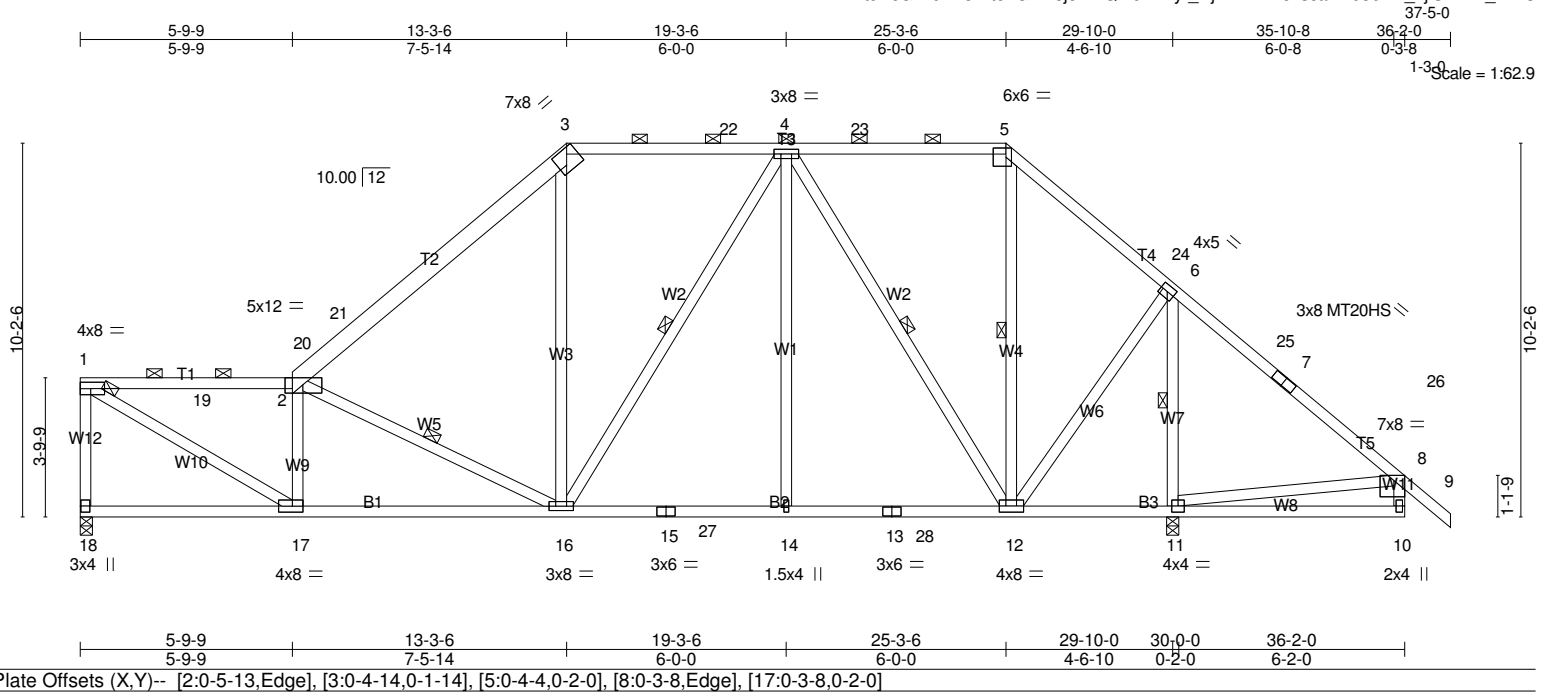


Plate Offsets (X,Y)-- [2:0-5-13,Edge], [3:0-4-14,0-1-14], [5:0-4-4,0-2-0], [8:0-3-8,Edge], [17:0-3-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 1.00	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.64	Vert(LL) -0.10 16-17 >999 360	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.95	Vert(CT) -0.21 16-17 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.05 11 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 263 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.1 *Except*
 T2: 2x6 SP No.2, T4,T5: 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 1-2, 3-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-12.
 WEBS 1 Row at midpt 2-16, 4-16, 4-12, 5-12, 6-11

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 18=1203/0-4-0 (min. 0-1-14), 11=1982/0-4-0 (min. 0-2-14)
 Max Horz 18=-308(LC 14)
 Max Uplift 18=-124(LC 16), 11=-148(LC 17)
 Max Grav 18=1595(LC 40), 11=2451(LC 41)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-18=-1538/213, 1-19=-2025/276, 2-19=-2025/276, 2-20=-1595/194, 20-21=-1578/201,
 3-21=-1512/246, 3-22=-1141/282, 4-22=-1141/282, 4-23=-535/164, 5-23=-535/164,
 5-24=-658/155, 6-24=-748/124, 6-25=-215/842, 7-25=-221/602, 7-26=-241/594,
 8-26=-245/370
 BOT CHORD 17-18=-235/273, 16-17=-205/1981, 16-27=-145/1153, 15-27=-145/1153, 14-15=-145/1153,
 13-14=-145/1153, 13-28=-145/1153, 12-28=-145/1153, 11-12=-456/314, 10-11=-135/318
 WEBS 1-17=-290/2302, 2-17=-1066/239, 2-16=-951/243, 3-16=-20/552, 4-16=-130/445,
 4-14=0/358, 4-12=-1153/191, 6-12=-140/1254, 6-11=-2211/474, 8-11=-782/437

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow); Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=124, 11=148.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21-3743-A	T25	Piggyback Base	1	1	CAIN BUILDERS-MILLER-KOERNER ROOF

Riverside Roof Truss, LLC, Danville, VA. 24541

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NOTES-

12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job 21-3743-A	Truss T26	Truss Type Piggyback Base Girder	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:37 2021 Page 1
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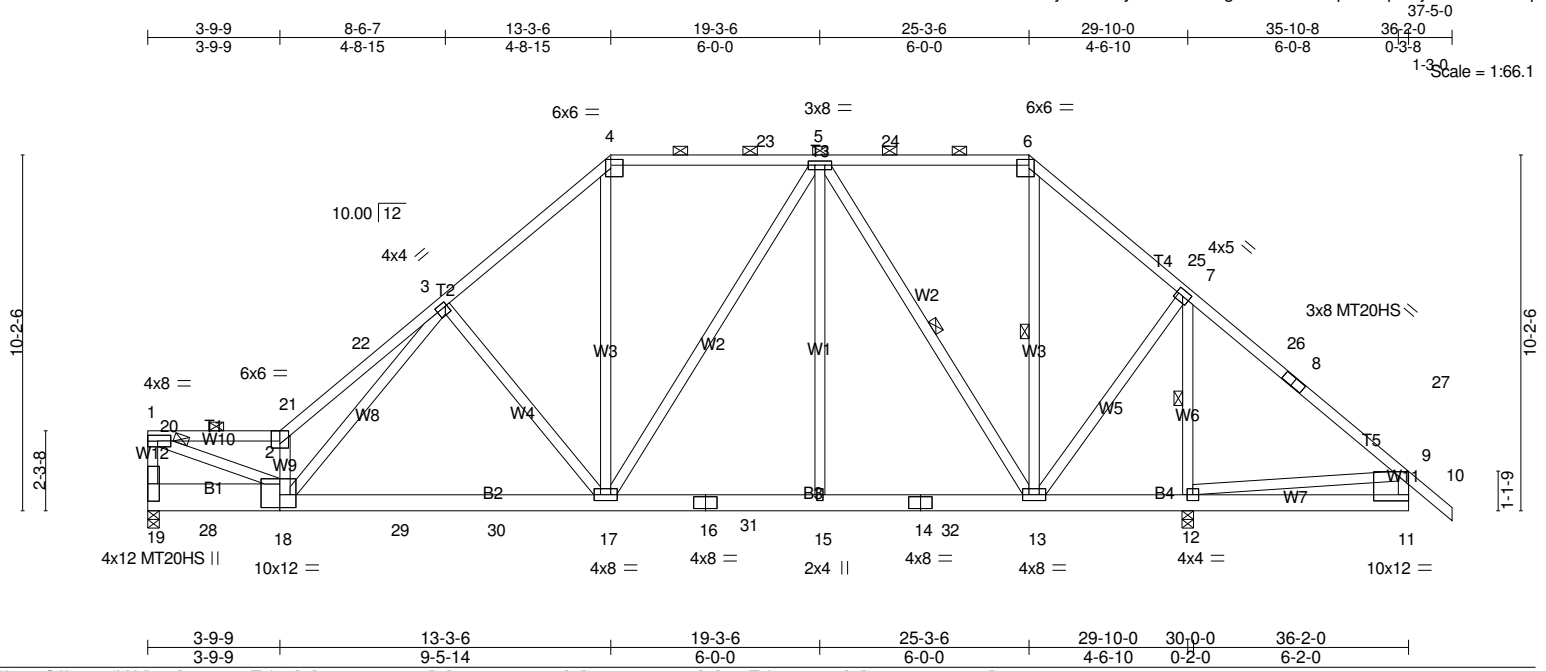


Plate Offsets (X,Y)-- [2:0-3-0,Edge], [3:0-0-8,0-1-8], [4:0-4-4,0-2-0], [6:0-4-4,0-2-0], [11:Edge,0-8-8], [18:0-5-8,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.90	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.71	Vert(LL) -0.16 17-18 >999 360	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.99	Vert(CT) -0.36 17-18 >982 240		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.02 12 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 291 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2 *Except*
 T2: 2x4 SP DSS, T3,T4: 2x4 SP No.1
 BOT CHORD 2x6 SP No.2 *Except*
 B1: 2x10 SP No.2
 WEBS 2x4 SP No.3 *Except*
 W10,W8,W4,W11: 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-10-11 oc purlins, except end verticals, and 2-0-0 oc purlins (2-7-0 max.): 1-2, 4-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13.
 WEBS 1 Row at midpt 5-13, 6-13, 7-12

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 19=2626/0-4-0 (min. 0-3-6), 12=2058/0-4-0 (min. 0-3-0)
 Max Horz 19=-283(LC 12)
 Max Uplift 12=-74(LC 17)
 Max Grav 19=2868(LC 40), 12=2555(LC 41)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-19=-1848/0, 1-20=-3293/0, 2-20=-3293/0, 2-21=-4340/0, 21-22=-4267/0, 3-22=-4140/0,
 3-4=-1718/127, 4-23=-1243/150, 5-23=-1243/150, 5-24=-560/130, 6-24=-560/130,
 6-25=-692/111, 7-25=-781/79, 7-26=-217/834, 8-26=-222/594, 8-27=-243/585,
 9-27=-246/362
 BOT CHORD 19-28=-135/364, 18-28=-200/298, 18-29=0/1753, 29-30=0/1753, 17-30=0/1753,
 17-31=-63/1239, 16-31=-63/1239, 15-16=-63/1239, 14-15=-63/1239, 14-32=-63/1239,
 13-32=-63/1239, 12-13=-450/316, 11-12=-124/313
 WEBS 1-18=0/3565, 2-18=-2972/0, 3-18=0/2466, 3-17=-1050/17, 4-17=0/720, 5-17=0/576,
 5-15=0/305, 5-13=-1206/108, 7-13=-76/1293, 7-12=-2289/392, 9-12=-769/419

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T26	Piggyback Base Girder	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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NOTES-

- 12) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1500 lb down at 1-7-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-66, 2-4=-66, 4-6=-66, 6-9=-66, 9-10=-66, 11-19=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-80, 2-4=-80, 4-6=-80, 6-9=-80, 9-10=-80, 11-19=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-65, 2-4=-65, 4-6=-65, 6-9=-65, 9-10=-65, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 4) Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-55, 2-4=-55, 4-6=-55, 6-9=-55, 9-10=-55, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 5) Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-55, 2-4=-55, 4-24=-55, 6-24=-72, 6-9=-30, 9-10=-30, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 6) Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-30, 2-4=-30, 4-23=-73, 6-23=-55, 6-9=-55, 9-10=-55, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-20, 2-4=-20, 4-6=-20, 6-9=-20, 9-10=-20, 11-19=-40
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 8) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-4=24, 4-6=28, 6-9=24, 9-10=19, 12-19=-12, 11-12=23
Horz: 1-19=16, 2-4=-36, 6-9=36, 9-10=31, 9-11=31
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 9) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-4=24, 4-6=28, 6-9=24, 9-10=44, 12-19=-12, 11-12=23
Horz: 1-19=-31, 2-4=-36, 6-9=36, 9-10=56, 9-11=-16
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 10) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-32, 2-4=-50, 4-6=-32, 6-9=-50, 9-10=-45, 12-19=-20, 11-12=-14
Horz: 1-19=-19, 2-4=30, 6-9=-30, 9-10=-25, 9-11=-28
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 11) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-32, 2-4=-50, 4-6=-32, 6-9=-50, 9-10=5, 12-19=-20, 11-12=-14
Horz: 1-19=28, 2-4=30, 6-9=-30, 9-10=25, 9-11=19
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=27, 2-4=-15, 4-6=27, 6-9=10, 9-10=4, 11-19=-12
Horz: 1-19=16, 2-4=3, 6-9=22, 9-10=16, 9-11=20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=10, 2-4=10, 4-6=27, 6-9=-15, 9-10=-2, 12-19=-12, 11-12=6
Horz: 1-19=-20, 2-4=-22, 6-9=-3, 9-10=10, 9-11=-16

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T26	Piggyback Base Girder	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:37 2021 Page 3
ID:tuKcGkndK28Ert51GwX8jcz2kQv-ywnbVetFSLg?0L?wkVv4fqaN1vvpSEj1w?PrCtz2izq

LOAD CASE(S) Standard

- Concentrated Loads (lb)
Vert: 28=-1500(F)
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=8, 2-4=-34, 4-6=8, 6-9=-9, 9-10=-4, 11-19=-20
Horz: 1-19=27, 2-4=14, 6-9=11, 9-10=16, 9-11=9
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-9, 2-4=-9, 4-6=8, 6-9=-34, 9-10=-28, 12-19=-20, 11-12=-2
Horz: 1-19=-9, 2-4=-11, 6-9=-14, 9-10=-8, 9-11=-27
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=27, 2-4=27, 4-6=10, 6-9=10, 9-10=4, 11-19=-12
Horz: 1-19=13, 2-4=-39, 6-9=22, 9-10=16, 9-11=19
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=10, 2-4=10, 4-6=10, 6-9=27, 9-10=21, 11-19=-12
Horz: 1-19=-19, 2-4=-22, 6-9=39, 9-10=33, 9-11=-13
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 18) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-4=15, 4-6=5, 6-9=5, 9-10=0, 11-19=-12
Horz: 1-19=7, 2-4=-27, 6-9=17, 9-10=11, 9-11=15
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 19) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-4=5, 4-6=5, 6-9=15, 9-10=9, 11-19=-12
Horz: 1-19=-15, 2-4=-17, 6-9=27, 9-10=21, 9-11=-7
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 20) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=8, 2-4=8, 4-6=-9, 6-9=-9, 9-10=-4, 11-19=-20
Horz: 1-19=24, 2-4=-28, 6-9=11, 9-10=16, 9-11=8
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 21) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-9, 2-4=-9, 4-6=-9, 6-9=8, 9-10=13, 11-19=-20
Horz: 1-19=-8, 2-4=-11, 6-9=28, 9-10=33, 9-11=-24
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 22) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-20, 2-4=-20, 4-6=-20, 6-9=-20, 9-10=-66, 11-19=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 23) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-66, 2-4=-66, 4-24=-66, 6-24=-89, 6-9=-34, 9-10=-34, 11-19=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 24) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 4-23=-91, 6-23=-66, 6-9=-66, 9-10=-66, 11-19=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 25) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-20, 2-4=-20, 4-6=-20, 6-9=-20, 9-10=-20, 19-29=-20, 29-30=-60, 30-31=-20, 31-32=-60, 11-32=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 26) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-65, 4-6=-34, 6-9=-47, 9-10=-42, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20
Horz: 1-19=20, 2-4=10, 6-9=8, 9-10=12, 9-11=7
Concentrated Loads (lb)
Vert: 28=-1500(F)

Continued on page 4

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T26	Piggyback Base Girder	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:37 2021 Page 4
ID:tuKcGkndK28Er51GwX8jcz2kQv-ywnbVetFSLg?0L?wkVv4fqaN1vvpSEj1w?PrCtz2izq

LOAD CASE(S) Standard

- 27) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-47, 2-4=-47, 4-6=-34, 6-9=-65, 9-10=-61, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 12-32=-20, 11-12=-6
Horz: 1-19=-7, 2-4=-8, 6-9=-10, 9-10=-6, 9-11=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 28) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 4-6=-47, 6-9=-47, 9-10=-42, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20
Horz: 1-19=18, 2-4=-21, 6-9=8, 9-10=12, 9-11=6
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 29) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-47, 2-4=-47, 4-6=-47, 6-9=-34, 9-10=-30, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20
Horz: 1-19=-6, 2-4=-8, 6-9=21, 9-10=25, 9-11=-18
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 30) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-44, 2-4=-75, 4-6=-44, 6-9=-57, 9-10=-53, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20
Horz: 1-19=20, 2-4=10, 6-9=8, 9-10=12, 9-11=7
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 31) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-57, 2-4=-57, 4-6=-44, 6-9=-75, 9-10=-71, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 12-32=-20, 11-12=-6
Horz: 1-19=-7, 2-4=-8, 6-9=-10, 9-10=-6, 9-11=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 32) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-44, 2-4=-44, 4-6=-57, 6-9=-57, 9-10=-53, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20
Horz: 1-19=18, 2-4=-21, 6-9=8, 9-10=12, 9-11=6
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 33) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-57, 2-4=-57, 4-6=-57, 6-9=-44, 9-10=-40, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20
Horz: 1-19=-6, 2-4=-8, 6-9=21, 9-10=25, 9-11=-18
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 34) 3rd Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-20=-55, 2-20=-68, 2-4=-30, 4-24=-55, 6-24=-72, 6-9=-30, 9-10=-30, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 35) 4th Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-30, 2-22=-55, 4-22=-83, 4-6=-30, 6-9=-30, 9-10=-30, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 36) 5th Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-89, 2-4=-30, 4-6=-30, 6-9=-30, 9-10=-30, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 37) 6th Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-30, 2-21=-58, 4-21=-55, 4-6=-30, 6-25=-72, 9-25=-55, 9-10=-55, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 38) 7th Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-30, 2-4=-30, 4-23=-73, 6-23=-55, 6-9=-30, 9-10=-30, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 39) 8th Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-30, 2-4=-30, 4-6=-30, 6-26=-84, 9-26=-55, 9-10=-55, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 40) 9th Unbal. Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-124, 2-4=-34, 4-6=-124, 6-9=-34, 9-10=-34, 11-19=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)

Continued on page 5

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T26	Piggyback Base Girder	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:37 2021 Page 5
ID:tuKcKgKndK28Ert51GwX8jcz2kQv-ywnbVetFSLg?0L?wkVv4fqaN1vvpSEj1w?PrCtz2izq

LOAD CASE(S) Standard

- 41) 10th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-124, 4-6=-34, 6-27=-124, 9-27=-66, 9-10=-66, 11-19=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 42) 11th Unbal.Dead + Snow (Unbal. Left) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-20=-66, 2-20=-84, 2-4=-34, 4-24=-66, 6-24=-89, 6-9=-34, 9-10=-34, 11-19=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 43) 12th Unbal.Dead + Snow (Unbal. Left) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-34, 2-22=-66, 4-22=-104, 4-6=-34, 6-9=-34, 9-10=-34, 11-19=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 44) 13th Unbal.Dead + Snow (Unbal. Left) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-112, 2-4=-34, 4-6=-34, 6-9=-34, 9-10=-34, 11-19=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 45) 14th Unbal.Dead + Snow (Unbal. Right) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-34, 2-21=-70, 4-21=-66, 4-6=-34, 6-25=-89, 9-25=-66, 9-10=-66, 11-19=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 46) 15th Unbal.Dead + Snow (Unbal. Right) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 4-23=-91, 6-23=-66, 6-9=-34, 9-10=-34, 11-19=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 47) 16th Unbal.Dead + Snow (Unbal. Right) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 4-6=-34, 6-26=-105, 9-26=-66, 9-10=-66, 11-19=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 48) 17th Unbal.Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-98, 2-4=-30, 4-6=-98, 6-9=-30, 9-10=-30, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 49) 18th Unbal.Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-30, 2-4=-98, 4-6=-30, 6-27=-98, 9-27=-55, 9-10=-55, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 50) 19th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-77, 2-4=-41, 4-6=-77, 6-9=-22, 9-10=-18, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20
Horz: 1-19=20, 2-4=10, 6-9=8, 9-10=12, 9-11=7
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 51) 20th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-10, 2-4=-108, 4-6=-10, 6-27=-90, 9-27=-47, 9-10=-42, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20
Horz: 1-19=20, 2-4=10, 6-9=8, 9-10=12, 9-11=7
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 52) 21st Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-90, 2-4=-22, 4-6=-77, 6-9=-41, 9-10=-37, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 12-32=-20, 11-12=-6
Horz: 1-19=-7, 2-4=-8, 6-9=-10, 9-10=-6, 9-11=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 53) 22nd Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-22, 2-4=-90, 4-6=-10, 6-27=-108, 9-27=-65, 9-10=-61, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 12-32=-20, 11-12=-6
Horz: 1-19=-7, 2-4=-8, 6-9=-10, 9-10=-6, 9-11=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 54) 23rd Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T26	Piggyback Base Girder	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:37 2021 Page 6
ID:tuKcGkndK28Ert51GwX8jcz2kQv-ywnbVetFSLg?0L?wkVv4fqaN1vprSEj1w?PrCtz2izq

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-77, 2-4=-10, 4-6=-90, 6-9=-22, 9-10=-18, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20

Horz: 1-19=18, 2-4=-21, 6-9=8, 9-10=12, 9-11=6

Concentrated Loads (lb)

Vert: 28=-1500(F)

55) 24th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-10, 2-4=-77, 4-6=-22, 6-27=-90, 9-27=-47, 9-10=-42, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20

Horz: 1-19=18, 2-4=-21, 6-9=8, 9-10=12, 9-11=6

Concentrated Loads (lb)

Vert: 28=-1500(F)

56) 25th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-90, 2-4=-22, 4-6=-90, 6-9=-10, 9-10=-6, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20

Horz: 1-19=-6, 2-4=-8, 6-9=21, 9-10=25, 9-11=-18

Concentrated Loads (lb)

Vert: 28=-1500(F)

57) 26th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-22, 2-4=-90, 4-6=-22, 6-27=-77, 9-27=-34, 9-10=-30, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20

Horz: 1-19=-6, 2-4=-8, 6-9=21, 9-10=25, 9-11=-18

Concentrated Loads (lb)

Vert: 28=-1500(F)

58) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-80, 2-4=-80, 4-6=-80, 6-9=-20, 9-10=-20, 11-19=-20

Concentrated Loads (lb)

Vert: 28=-1500(F)

59) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-20, 2-4=-20, 4-6=-80, 6-9=-80, 9-10=-80, 11-19=-20

Concentrated Loads (lb)

Vert: 28=-1500(F)

60) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-65, 2-4=-65, 4-6=-65, 6-9=-20, 9-10=-20, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20

Concentrated Loads (lb)

Vert: 28=-1500(F)

61) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-20, 2-4=-20, 4-6=-65, 6-9=-65, 9-10=-65, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20

Concentrated Loads (lb)

Vert: 28=-1500(F)

62) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=28, 2-4=24, 4-6=28, 6-9=24, 9-10=19, 12-19=-12, 11-12=23

Horz: 1-19=16, 2-4=-36, 6-9=36, 9-10=31, 9-11=31

Concentrated Loads (lb)

Vert: 28=-1500(F)

63) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=28, 2-4=24, 4-6=28, 6-9=24, 9-10=44, 12-19=-12, 11-12=23

Horz: 1-19=-31, 2-4=-36, 6-9=36, 9-10=56, 9-11=-16

Concentrated Loads (lb)

Vert: 28=-1500(F)

64) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-32, 2-4=-50, 4-6=-32, 6-9=-50, 9-10=-45, 12-19=-20, 11-12=-14

Horz: 1-19=-19, 2-4=30, 6-9=-30, 9-10=-25, 9-11=-28

Concentrated Loads (lb)

Vert: 28=-1500(F)

65) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-32, 2-4=-50, 4-6=-32, 6-9=-50, 9-10=5, 12-19=-20, 11-12=-14

Horz: 1-19=28, 2-4=30, 6-9=-30, 9-10=25, 9-11=19

Concentrated Loads (lb)

Vert: 28=-1500(F)

66) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=27, 2-4=-15, 4-6=27, 6-9=10, 9-10=4, 11-19=-12

Horz: 1-19=16, 2-4=3, 6-9=22, 9-10=16, 9-11=20

Concentrated Loads (lb)

Vert: 28=-1500(F)

67) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=10, 2-4=10, 4-6=27, 6-9=-15, 9-10=-2, 12-19=-12, 11-12=6

Horz: 1-19=-20, 2-4=-22, 6-9=-3, 9-10=10, 9-11=-16

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21-3743-A	T26	Piggyback Base Girder	1	1	CAIN BUILDERS-MILLER-KOERNER ROOF

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:37 2021 Page 7
ID:tuKcGkndK28Ert51GwX8jcz2kQv-ywnbVetFSLg?0L?wkVv4fqaN1vvpSEj1w?PrCtz2izq

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 28=-1500(F)

68) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=8, 2-4=-34, 4-6=8, 6-9=-9, 9-10=-4, 11-19=-20

Horz: 1-19=27, 2-4=14, 6-9=11, 9-10=16, 9-11=9

Concentrated Loads (lb)

Vert: 28=-1500(F)

69) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-9, 2-4=-9, 4-6=8, 6-9=-34, 9-10=-28, 12-19=-20, 11-12=-2

Horz: 1-19=-9, 2-4=-11, 6-9=-14, 9-10=-8, 9-11=-27

Concentrated Loads (lb)

Vert: 28=-1500(F)

70) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=27, 2-4=27, 4-6=10, 6-9=10, 9-10=4, 11-19=-12

Horz: 1-19=13, 2-4=-39, 6-9=22, 9-10=16, 9-11=19

Concentrated Loads (lb)

Vert: 28=-1500(F)

71) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=10, 2-4=10, 4-6=10, 6-9=27, 9-10=21, 11-19=-12

Horz: 1-19=-19, 2-4=-22, 6-9=39, 9-10=33, 9-11=-13

Concentrated Loads (lb)

Vert: 28=-1500(F)

72) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=15, 2-4=15, 4-6=5, 6-9=5, 9-10=0, 11-19=-12

Horz: 1-19=7, 2-4=-27, 6-9=17, 9-10=11, 9-11=15

Concentrated Loads (lb)

Vert: 28=-1500(F)

73) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=5, 2-4=5, 4-6=5, 6-9=15, 9-10=9, 11-19=-12

Horz: 1-19=-15, 2-4=-17, 6-9=27, 9-10=21, 9-11=-7

Concentrated Loads (lb)

Vert: 28=-1500(F)

74) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=8, 2-4=8, 4-6=-9, 6-9=-9, 9-10=-4, 11-19=-20

Horz: 1-19=24, 2-4=-28, 6-9=11, 9-10=16, 9-11=8

Concentrated Loads (lb)

Vert: 28=-1500(F)

75) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-9, 2-4=-9, 4-6=-9, 6-9=8, 9-10=13, 11-19=-20

Horz: 1-19=-8, 2-4=-11, 6-9=28, 9-10=33, 9-11=-24

Concentrated Loads (lb)

Vert: 28=-1500(F)

76) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60,

Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-65, 4-6=-34, 6-9=-47, 9-10=-42, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20

Horz: 1-19=20, 2-4=10, 6-9=8, 9-10=12, 9-11=7

Concentrated Loads (lb)

Vert: 28=-1500(F)

77) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60,

Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-47, 2-4=-47, 4-6=-34, 6-9=-65, 9-10=-61, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 12-32=-20, 11-12=-6

Horz: 1-19=-7, 2-4=-8, 6-9=-10, 9-10=-6, 9-11=-20

Concentrated Loads (lb)

Vert: 28=-1500(F)

78) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber

Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-34, 2-4=-34, 4-6=-47, 6-9=-47, 9-10=-42, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20

Horz: 1-19=18, 2-4=-21, 6-9=8, 9-10=12, 9-11=6

Concentrated Loads (lb)

Vert: 28=-1500(F)

79) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber

Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-47, 2-4=-47, 4-6=-47, 6-9=-34, 9-10=-30, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20

Horz: 1-19=-6, 2-4=-8, 6-9=21, 9-10=25, 9-11=-18

Concentrated Loads (lb)

Vert: 28=-1500(F)

Continued on page 8

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T26	Piggyback Base Girder	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:37 2021 Page 8
ID:tuKcGkndK28Ert51GwX8jcz2kQv-ywnbVetFSLg?0L?wkVv4fqaN1vrpSEj1w?PrCtz2izq

LOAD CASE(S) Standard

- 80) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-44, 2-4=-75, 4-6=-44, 6-9=-57, 9-10=-53, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20
Horz: 1-19=20, 2-4=10, 6-9=8, 9-10=12, 9-11=7
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 81) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-57, 2-4=-57, 4-6=-44, 6-9=-75, 9-10=-71, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 12-32=-20, 11-12=-6
Horz: 1-19=-7, 2-4=-8, 6-9=-10, 9-10=-6, 9-11=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 82) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-44, 2-4=-44, 4-6=-57, 6-9=-57, 9-10=-53, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20
Horz: 1-19=18, 2-4=-21, 6-9=8, 9-10=12, 9-11=6
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 83) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-57, 2-4=-57, 4-6=-57, 6-9=-44, 9-10=-40, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20
Horz: 1-19=-6, 2-4=-8, 6-9=21, 9-10=25, 9-11=-18
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 84) Reversal: 19th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-77, 2-4=-41, 4-6=-77, 6-9=-22, 9-10=-18, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20
Horz: 1-19=20, 2-4=10, 6-9=8, 9-10=12, 9-11=7
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 85) Reversal: 20th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-10, 2-4=-108, 4-6=-10, 6-27=-90, 9-27=-47, 9-10=-42, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20
Horz: 1-19=20, 2-4=10, 6-9=8, 9-10=12, 9-11=7
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 86) Reversal: 21st Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-90, 2-4=-22, 4-6=-77, 6-9=-41, 9-10=-37, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 12-32=-20, 11-12=-6
Horz: 1-19=-7, 2-4=-8, 6-9=-10, 9-10=-6, 9-11=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 87) Reversal: 22nd Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-22, 2-4=-90, 4-6=-10, 6-27=-108, 9-27=-65, 9-10=-61, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 12-32=-20, 11-12=-6
Horz: 1-19=-7, 2-4=-8, 6-9=-10, 9-10=-6, 9-11=-20
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 88) Reversal: 23rd Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-77, 2-4=-10, 4-6=-90, 6-9=-22, 9-10=-18, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20
Horz: 1-19=18, 2-4=-21, 6-9=8, 9-10=12, 9-11=6
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 89) Reversal: 24th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-10, 2-4=-77, 4-6=-22, 6-27=-90, 9-27=-47, 9-10=-42, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20
Horz: 1-19=18, 2-4=-21, 6-9=8, 9-10=12, 9-11=6
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 90) Reversal: 25th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-90, 2-4=-22, 4-6=-90, 6-9=-10, 9-10=-6, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20
Horz: 1-19=-6, 2-4=-8, 6-9=21, 9-10=25, 9-11=-18
Concentrated Loads (lb)
Vert: 28=-1500(F)
- 91) Reversal: 26th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T26	Piggyback Base Girder	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:37 2021 Page 9
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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-22, 2-4=-90, 4-6=-22, 6-27=-77, 9-27=-34, 9-10=-30, 19-29=-20, 29-30=-50, 30-31=-20, 31-32=-50, 11-32=-20

Horz: 1-19=-6, 2-4=-8, 6-9=21, 9-10=25, 9-11=-18

Concentrated Loads (lb)

Vert: 28=-1500(F)

Job 21-3743-A	Truss T27	Truss Type Piggyback Base	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF Job Reference (optional)
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Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:38 2021 Page 1
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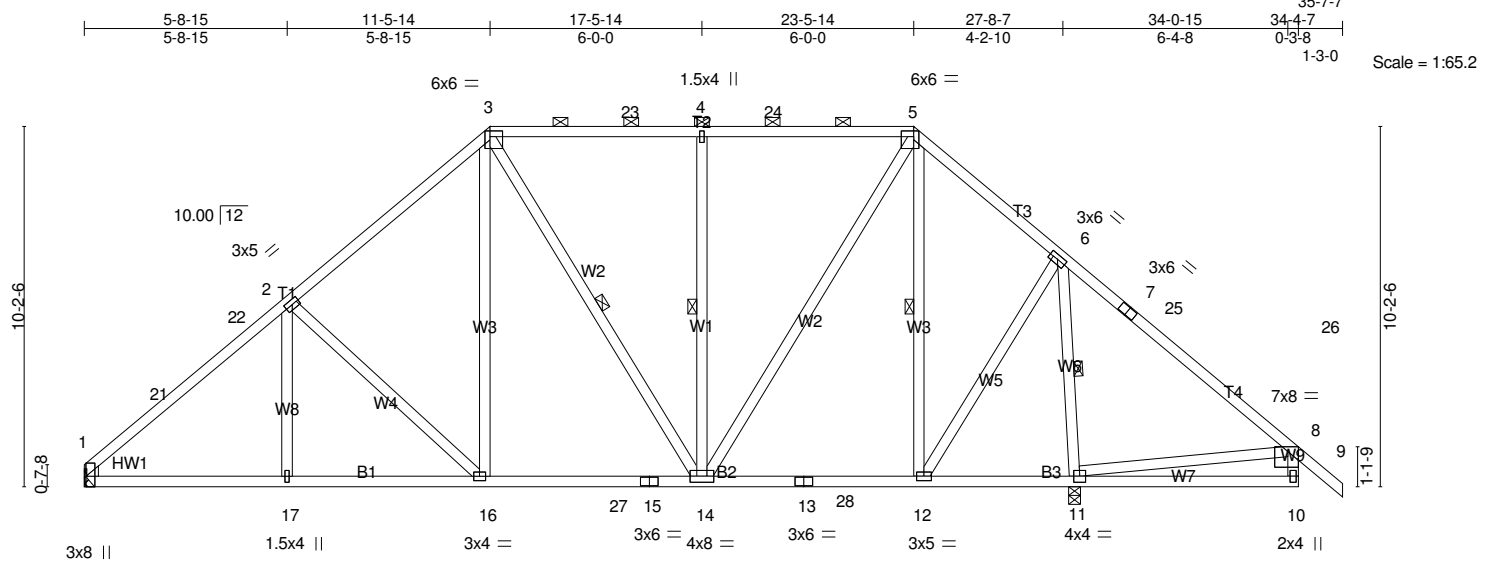


Plate Offsets (X,Y)-- [1:0-3-8,Edge], [3:0-4-4,0-2-0], [5:0-4-4,0-2-0], [8:0-3-8,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.84	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.49	Vert(LL) -0.08 14-16 >999 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.74	Vert(CT) -0.13 14-16 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) -0.04 1 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 240 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1 *Except*
T1: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W9: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-0-13 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-12.
WEBS 1 Row at midpt 3-14, 4-14, 5-12, 6-11

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 11=1916/0-4-0 (min. 0-2-13), 1=1127/Mechanical
Max Horz 11=263(LC 15)
Max Uplift 11=223(LC 17), 1=143(LC 16)
Max Grav 11=2408(LC 39), 1=1424(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-21=-1853/193, 21-22=-1690/204, 2-22=-1509/228, 2-3=-1359/277, 3-23=-1024/252, 4-23=-1024/252, 4-24=-1024/252, 5-24=-1024/252, 5-6=-680/175, 6-7=-216/877, 7-25=-220/688, 25-26=-248/618, 8-26=-252/378
BOT CHORD 1-17=-75/1298, 16-17=-75/1298, 16-27=-32/948, 15-27=-32/948, 14-15=-32/948, 14-28=-136/570, 13-28=-136/570, 12-13=-136/570, 11-12=-413/272, 10-11=-157/366
WEBS 2-16=-674/225, 3-16=-76/626, 3-14=-391/185, 4-14=-869/192, 5-14=-181/1015, 5-12=-855/186, 6-12=-115/1123, 6-11=-2162/465, 8-11=-850/470

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - 6) Provide adequate drainage to prevent water ponding.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 9) Refer to girder(s) for truss to truss connections.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=223, 1=143.
 - 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21-3743-A	T27	Piggyback Base	1	1	CAIN BUILDERS-MILLER-KOERNER ROOF

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:38 2021 Page 2
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LOAD CASE(S) Standard

Job 21-3743-A	Truss T28	Truss Type Piggyback Base	Qty 5	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:39 2021 Page 1
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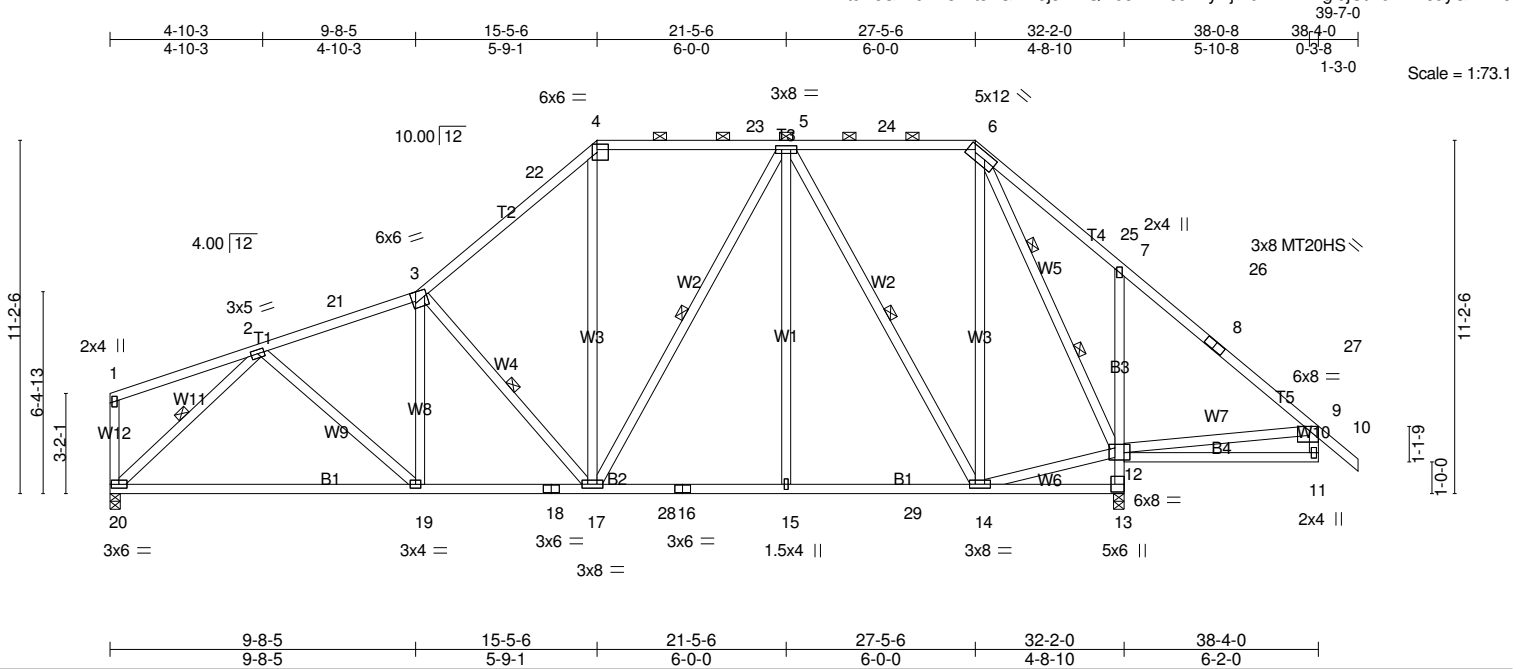


Plate Offsets (X,Y)-- [3:0-5-4,0-2-8], [4:0-4-4,0-2-0], [6:0-4-4,0-2-8], [9:0-3-8,Edge], [12:0-2-4,0-2-12], [13:Edge,0-3-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 1.00	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.87	Vert(LL) -0.25 19-20 >999 360	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.92	Vert(CT) -0.52 19-20 >742 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.06 13 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 293 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
T2,T3: 2x4 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
B3: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-11-11 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14 3-2-2 oc bracing: 12-13.
WEBS 1 Row at midpt 3-17, 5-17, 5-14, 2-20
2 Rows at 1/3 pts 6-12

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 13=2069/0-4-0 (min. 0-2-15), 20=1302/0-4-0 (min. 0-1-13)
Max Horz 20=287(LC 15)
Max Uplift 13=-143(LC 17), 20=-138(LC 16)
Max Grav 13=2492(LC 41), 20=1544(LC 58)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-21=-1874/302, 3-21=-1808/311, 3-22=-1601/314, 4-22=-1384/336, 4-23=-1112/329,
5-23=-1112/329, 5-24=-502/200, 6-24=-502/200, 6-25=-26/752, 7-25=-35/418,
7-26=-213/833, 8-26=-215/602, 8-27=-236/585, 9-27=-239/370
BOT CHORD 19-20=-269/1363, 18-19=-212/1712, 17-18=-212/1712, 17-28=-147/1090, 16-28=-147/1090,
15-16=-147/1090, 15-29=-147/1090, 14-29=-147/1090, 12-13=-2454/646, 7-12=-722/312,
11-12=-123/293
WEBS 2-19=0/530, 3-17=-877/248, 4-17=-66/519, 5-17=-124/465, 5-15=0/374, 5-14=-1164/204,
6-14=-142/1002, 12-14=-92/649, 6-12=-1833/287, 2-20=-1834/329, 9-12=-750/418

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=143 20=138.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T28	Piggyback Base	5	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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NOTES-

- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job 21-3743-A	Truss T28GR	Truss Type Piggyback Base Girder	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF Job Reference (optional)
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Riverside Roof Truss, LLC, Danville, VA. 24541

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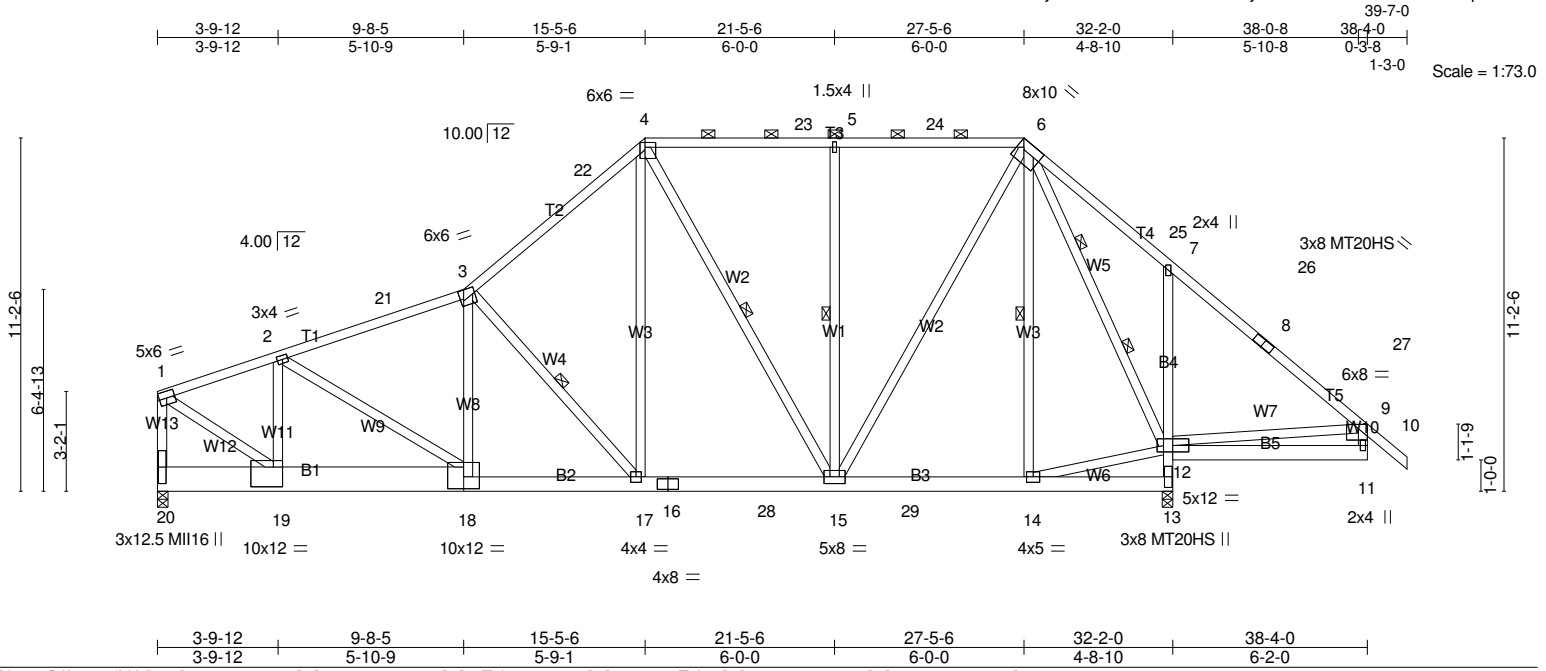


Plate Offsets (X,Y)-- [3:0-5-4,0-2-8], [4:0-4-0,0-1-12], [6:Edge,0-2-11], [9:0-3-8,Edge], [18:0-6-0,0-4-8], [19:0-3-8,0-7-8]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL (roof) 30.0	Plate Grip DOL 1.15	TC 0.96	Vert(LL) -0.07 17-18 >999 360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Lumber DOL 1.15	BC 0.59	Vert(CT) -0.17 17-18 >999 240	MT20HS	187/143
TCDL 10.0	Rep Stress Incr NO	WB 0.87	Horz(CT) 0.03 13 n/a n/a	MII16	174/126
BCLL 0.0 *	Code IRC2015/TPI2014	Matrix-MS		Weight: 341 lb	FT = 20%
BCDL 10.0					

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 *Except* T2: 2x4 SP DSS, T5: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-1-9 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-4 max.): 4-6.
BOT CHORD 2x6 SP No.2 *Except* B1: 2x10 SP No.2, B4: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14 2-11-2 oc bracing: 12-13.
WEBS 2x4 SP No.3 *Except* W12: 2x4 SP No.2	WEBS 1 Row at midpt 3-17, 4-15, 5-15, 6-14 2 Rows at 1/3 pts 6-12
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 20=2630/0-4-0 (min. 0-3-6), 13=2242/0-4-0 (min. 0-3-2)
Max Horz 20=283(LC 15)
Max Grav 20=2872(LC 58), 13=2664(LC 41)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2647/0, 2-21=-2562/0, 3-21=-2473/0, 3-22=-1966/0, 4-22=-1749/0, 4-23=-1249/122, 5-23=-1249/122, 5-24=-1249/122, 6-24=-1249/122, 6-25=-27753, 7-25=-35/418, 7-26=-217/835, 8-26=-220/603, 8-27=-240/585, 9-27=-244/372, 1-20=-2720/0
BOT CHORD 19-20=-253/187, 18-19=0/2481, 17-18=0/2357, 16-17=0/1381, 16-28=0/1381, 15-28=0/1381, 15-29=0/660, 14-29=0/660, 12-13=-2622/475, 7-12=-726/312, 11-12=-114/290
WEBS 2-19=-311/758, 2-18=-658/0, 3-18=0/471, 3-17=-1409/0, 4-17=0/1147, 4-15=-656/0, 5-15=-865/192, 6-15=-4/1355, 12-14=-9/722, 6-12=-2001/120, 1-19=0/3036, 9-12=-746/405

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow); Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T28GR	Piggyback Base Girder	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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NOTES-

- 11) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1500 lb down at 3-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-66, 3-4=-66, 4-6=-66, 6-9=-66, 9-10=-66, 13-20=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-80, 3-4=-80, 4-6=-80, 6-9=-80, 9-10=-80, 13-20=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-65, 3-4=-65, 4-6=-65, 6-9=-65, 9-10=-65, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 4) Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-55, 3-4=-55, 4-6=-55, 6-9=-55, 9-10=-55, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 5) Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-55, 3-4=-55, 4-24=-55, 6-24=-72, 6-9=-30, 9-10=-30, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 6) Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-30, 3-4=-30, 4-23=-75, 6-23=-55, 6-9=-55, 9-10=-55, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-20, 3-4=-20, 4-6=-20, 6-9=-20, 9-10=-20, 13-20=-40, 11-12=-40
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 8) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=31, 3-4=24, 4-6=28, 6-9=24, 9-10=19, 13-20=-12, 11-12=22
Horz: 1-3=-43, 3-4=-36, 6-9=36, 9-10=31, 1-20=16, 9-11=30
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 9) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=31, 3-4=24, 4-6=28, 6-9=24, 9-10=44, 13-20=-12, 11-12=22
Horz: 1-3=-43, 3-4=-36, 6-9=36, 9-10=56, 1-20=-30, 9-11=-16
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 10) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-35, 3-4=-50, 4-6=-32, 6-9=-50, 9-10=-45, 13-20=-20, 11-12=-14
Horz: 1-3=15, 3-4=30, 6-9=30, 9-10=-25, 1-20=-19, 9-11=-27
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 11) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-35, 3-4=-50, 4-6=-32, 6-9=-50, 9-10=5, 13-20=-20, 11-12=-14
Horz: 1-3=15, 3-4=30, 6-9=30, 9-10=25, 1-20=27, 9-11=19
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=27, 3-4=-15, 4-6=27, 6-9=10, 9-10=4, 13-20=-12, 11-12=-12
Horz: 1-3=-39, 3-4=3, 6-9=22, 9-10=16, 1-20=16, 9-11=20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=14, 3-4=10, 4-6=27, 6-9=-15, 9-10=-2, 13-20=-12, 11-12=6
Horz: 1-3=-26, 3-4=-22, 6-9=-3, 9-10=10, 1-20=-20, 9-11=-16

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21-3743-A	T28GR	Piggyback Base Girder	1	1	CAN BUILDERS-MILLER-KOERNER ROOF

Riverside Roof Truss, LLC, Danville, VA. 24541

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LOAD CASE(S) Standard

- Concentrated Loads (lb)
Vert: 19=-1500(F)
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=8, 3-4=-34, 4-6=8, 6-9=-9, 9-10=-4, 13-20=-20, 11-12=-20
Horz: 1-3=-28, 3-4=14, 6-9=11, 9-10=16, 1-20=27, 9-11=9
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-5, 3-4=-9, 4-6=8, 6-9=-34, 9-10=-28, 13-20=-20, 11-12=-2
Horz: 1-3=-15, 3-4=-11, 6-9=-14, 9-10=-8, 1-20=-9, 9-11=-27
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=27, 3-4=27, 4-6=10, 6-9=10, 9-10=4, 13-20=-12, 11-12=-12
Horz: 1-3=-39, 3-4=-39, 6-9=22, 9-10=16, 1-20=13, 9-11=19
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=10, 3-4=10, 4-6=10, 6-9=27, 9-10=21, 13-20=-12, 11-12=-12
Horz: 1-3=-22, 3-4=-22, 6-9=39, 9-10=33, 1-20=-19, 9-11=-13
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 18) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=15, 3-4=15, 4-6=5, 6-9=5, 9-10=0, 13-20=-12, 11-12=-12
Horz: 1-3=-27, 3-4=-27, 6-9=17, 9-10=11, 1-20=7, 9-11=15
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 19) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=5, 3-4=5, 4-6=5, 6-9=15, 9-10=9, 13-20=-12, 11-12=-12
Horz: 1-3=-17, 3-4=-17, 6-9=27, 9-10=21, 1-20=-15, 9-11=-7
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 20) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=8, 3-4=8, 4-6=-9, 6-9=-9, 9-10=-4, 13-20=-20, 11-12=-20
Horz: 1-3=-28, 3-4=-28, 6-9=11, 9-10=16, 1-20=24, 9-11=8
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 21) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-9, 3-4=-9, 4-6=-9, 6-9=8, 9-10=13, 13-20=-20, 11-12=-20
Horz: 1-3=-11, 3-4=-11, 6-9=28, 9-10=33, 1-20=-8, 9-11=-24
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 22) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-20, 3-4=-20, 4-6=-20, 6-9=-20, 9-10=-66, 13-20=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 23) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-66, 3-4=-66, 4-24=-66, 6-24=-89, 6-9=-34, 9-10=-34, 13-20=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 24) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-34, 3-4=-34, 4-23=-94, 6-23=-66, 6-9=-66, 9-10=-66, 13-20=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 25) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-20, 3-4=-20, 4-6=-20, 6-9=-20, 9-10=-20, 17-20=-20, 17-28=-60, 28-29=-20, 14-29=-60, 13-14=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 26) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-34, 3-4=-65, 4-6=-34, 6-9=-47, 9-10=-42, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Horz: 1-3=-21, 3-4=10, 6-9=8, 9-10=12, 1-20=20, 9-11=7
Concentrated Loads (lb)
Vert: 19=-1500(F)

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T28GR	Piggyback Base Girder	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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ID:tuKcGkndK28Ert51GwX8jczkQv-MVSk7fv7kG2atojVPdSnHSCJ7uPfdKUCzdVpCz2izn

LOAD CASE(S) Standard

- 27) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-43, 3-4=-47, 4-6=-34, 6-9=-65, 9-10=-61, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-6
Horz: 1-3=-11, 3-4=-8, 6-9=-10, 9-10=-6, 1-20=-7, 9-11=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 28) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-34, 3-4=-34, 4-6=-47, 6-9=-47, 9-10=-42, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Horz: 1-3=-21, 3-4=-21, 6-9=8, 9-10=12, 1-20=18, 9-11=6
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 29) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-47, 3-4=-47, 4-6=-47, 6-9=-34, 9-10=-30, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Horz: 1-3=-8, 3-4=-8, 6-9=21, 9-10=25, 1-20=-6, 9-11=-18
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 30) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-44, 3-4=-75, 4-6=-44, 6-9=-57, 9-10=-53, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Horz: 1-3=-21, 3-4=10, 6-9=8, 9-10=12, 1-20=20, 9-11=7
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 31) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-54, 3-4=-57, 4-6=-44, 6-9=-75, 9-10=-71, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-6
Horz: 1-3=-11, 3-4=-8, 6-9=-10, 9-10=-6, 1-20=-7, 9-11=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 32) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-44, 3-4=-44, 4-6=-57, 6-9=-57, 9-10=-53, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Horz: 1-3=-21, 3-4=-21, 6-9=8, 9-10=12, 1-20=18, 9-11=6
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 33) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-57, 3-4=-57, 4-6=-57, 6-9=-44, 9-10=-40, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Horz: 1-3=-8, 3-4=-8, 6-9=21, 9-10=25, 1-20=-6, 9-11=-18
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 34) 3rd Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-21=-55, 3-21=-61, 3-4=-30, 4-24=-55, 6-24=-72, 6-9=-30, 9-10=-30, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 35) 4th Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-30, 3-4=-83, 4-6=-30, 6-9=-30, 9-10=-30, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 36) 5th Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-80, 3-4=-30, 4-6=-30, 6-9=-30, 9-10=-30, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 37) 6th Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-30, 3-22=-65, 4-22=-55, 4-6=-30, 6-25=-72, 9-25=-55, 9-10=-55, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 38) 7th Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-30, 3-4=-30, 4-23=-75, 6-23=-55, 6-9=-30, 9-10=-30, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 39) 8th Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-30, 3-4=-30, 4-6=-30, 6-26=-85, 9-26=-55, 9-10=-55, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 40) 9th Unbal. Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-34, 3-4=-34, 4-6=-124, 6-9=-34, 9-10=-34, 13-20=-20, 11-12=-20

Continued on page 5

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T28GR	Piggyback Base Girder	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:40 2021 Page 5
ID:tuKcGkndK28Ert51GwX8jczk2kQv-MVSk7fv7kG2atojVPdSnHSCJ7uPfdKuczdVpCz2izn

LOAD CASE(S) Standard

- Concentrated Loads (lb)
Vert: 19=-1500(F)
- 41) 10th Unbal.Death + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-34, 3-4=-124, 4-6=-34, 6-27=-124, 9-27=-66, 9-10=-66, 13-20=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 42) 11th Unbal.Death + Snow (Unbal. Left) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-21=-66, 3-21=-74, 3-4=-34, 4-24=-66, 6-24=-89, 6-9=-34, 9-10=-34, 13-20=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 43) 12th Unbal.Death + Snow (Unbal. Left) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-34, 3-4=-104, 4-6=-34, 6-9=-34, 9-10=-34, 13-20=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 44) 13th Unbal.Death + Snow (Unbal. Left) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-99, 3-4=-34, 4-6=-34, 6-9=-34, 9-10=-34, 13-20=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 45) 14th Unbal.Death + Snow (Unbal. Right) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-34, 3-22=-80, 4-22=-66, 4-6=-34, 6-25=-89, 9-25=-66, 9-10=-66, 13-20=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 46) 15th Unbal.Death + Snow (Unbal. Right) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-34, 3-4=-34, 4-23=-94, 6-23=-66, 6-9=-34, 9-10=-34, 13-20=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 47) 16th Unbal.Death + Snow (Unbal. Right) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-34, 3-4=-34, 4-6=-34, 6-26=-107, 9-26=-66, 9-10=-66, 13-20=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 48) 17th Unbal.Death + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-30, 3-4=-30, 4-6=-98, 6-9=-30, 9-10=-30, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 49) 18th Unbal.Death + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-30, 3-4=-98, 4-6=-30, 6-27=-98, 9-27=-55, 9-10=-55, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 50) 19th Unbal.Death + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-10, 3-4=-41, 4-6=-77, 6-9=-22, 9-10=-18, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Horz: 1-3=-21, 3-4=10, 6-9=8, 9-10=12, 1-20=20, 9-11=7
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 51) 20th Unbal.Death + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-10, 3-4=-108, 4-6=-10, 6-27=-90, 9-27=-47, 9-10=-42, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Horz: 1-3=-21, 3-4=10, 6-9=8, 9-10=12, 1-20=20, 9-11=7
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 52) 21st Unbal.Death + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-19, 3-4=-22, 4-6=-77, 6-9=-41, 9-10=-37, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-6
Horz: 1-3=-11, 3-4=-8, 6-9=-10, 9-10=-6, 1-20=-7, 9-11=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 53) 22nd Unbal.Death + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-19, 3-4=-90, 4-6=-10, 6-27=-108, 9-27=-65, 9-10=-61, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-6
Horz: 1-3=-11, 3-4=-8, 6-9=-10, 9-10=-6, 1-20=-7, 9-11=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T28GR	Piggyback Base Girder	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:40 2021 Page 6
ID:tuKcGkndK28Ert51GwX8jcz2kQv-MVSk7v7kG2atojVPdSnHSCUJ7uPfdKuczdVpCz2izn

LOAD CASE(S) Standard

- 54) 23rd Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-10, 3-4=-10, 4-6=-90, 6-9=-22, 9-10=-18, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Horz: 1-3=-21, 3-4=-21, 6-9=8, 9-10=12, 1-20=18, 9-11=6
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 55) 24th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-10, 3-4=-77, 4-6=-22, 6-27=-90, 9-27=-47, 9-10=-42, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Horz: 1-3=-21, 3-4=-21, 6-9=8, 9-10=12, 1-20=18, 9-11=6
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 56) 25th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-22, 3-4=-22, 4-6=-90, 6-9=-10, 9-10=-6, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Horz: 1-3=-8, 3-4=-8, 6-9=21, 9-10=25, 1-20=-6, 9-11=-18
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 57) 26th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-22, 3-4=-90, 4-6=-22, 6-27=-77, 9-27=-34, 9-10=-30, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Horz: 1-3=-8, 3-4=-8, 6-9=21, 9-10=25, 1-20=-6, 9-11=-18
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 58) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-80, 3-4=-80, 4-6=-80, 6-9=-20, 9-10=-20, 13-20=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 59) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-20, 3-4=-20, 4-6=-80, 6-9=-80, 9-10=-80, 13-20=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 60) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-65, 3-4=-65, 4-6=-65, 6-9=-20, 9-10=-20, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 61) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-20, 3-4=-20, 4-6=-65, 6-9=-65, 9-10=-65, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 62) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=31, 3-4=24, 4-6=28, 6-9=24, 9-10=19, 13-20=-12, 11-12=22
Horz: 1-3=-43, 3-4=-36, 6-9=36, 9-10=31, 1-20=16, 9-11=30
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 63) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=31, 3-4=24, 4-6=28, 6-9=24, 9-10=44, 13-20=-12, 11-12=22
Horz: 1-3=-43, 3-4=-36, 6-9=36, 9-10=56, 1-20=-30, 9-11=-16
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 64) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-35, 3-4=-50, 4-6=-32, 6-9=-50, 9-10=-45, 13-20=-20, 11-12=-14
Horz: 1-3=15, 3-4=30, 6-9=-30, 9-10=-25, 1-20=-19, 9-11=-27
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 65) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-35, 3-4=-50, 4-6=-32, 6-9=-50, 9-10=5, 13-20=-20, 11-12=-14
Horz: 1-3=15, 3-4=30, 6-9=-30, 9-10=25, 1-20=27, 9-11=19
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 66) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=27, 3-4=-15, 4-6=27, 6-9=10, 9-10=4, 13-20=-12, 11-12=-12
Horz: 1-3=-39, 3-4=3, 6-9=22, 9-10=16, 1-20=16, 9-11=20
Concentrated Loads (lb)
Vert: 19=-1500(F)
- 67) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T28GR	Piggyback Base Girder	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:40 2021 Page 7
ID:tuKcGkndK28Ert51GwX8jcz2kQv-MVSk7iv7kG2atojVPdSnHSCJ7uPfdKUcZvPcZ2izn

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=14, 3-4=10, 4-6=27, 6-9=-15, 9-10=-2, 13-20=-12, 11-12=6

Horz: 1-3=-26, 3-4=-22, 6-9=-3, 9-10=10, 1-20=-20, 9-11=-16

Concentrated Loads (lb)

Vert: 19=-1500(F)

68) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=8, 3-4=-34, 4-6=8, 6-9=-9, 9-10=-4, 13-20=-20, 11-12=-20

Horz: 1-3=-28, 3-4=14, 6-9=11, 9-10=16, 1-20=27, 9-11=9

Concentrated Loads (lb)

Vert: 19=-1500(F)

69) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-5, 3-4=-9, 4-6=8, 6-9=-34, 9-10=-28, 13-20=-20, 11-12=-2

Horz: 1-3=15, 3-4=-11, 6-9=-14, 9-10=-8, 1-20=-9, 9-11=-27

Concentrated Loads (lb)

Vert: 19=-1500(F)

70) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=27, 3-4=27, 4-6=10, 6-9=10, 9-10=4, 13-20=-12, 11-12=-12

Horz: 1-3=-39, 3-4=-39, 6-9=22, 9-10=16, 1-20=13, 9-11=19

Concentrated Loads (lb)

Vert: 19=-1500(F)

71) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=10, 3-4=10, 4-6=10, 6-9=27, 9-10=21, 13-20=-12, 11-12=-12

Horz: 1-3=-22, 3-4=-22, 6-9=39, 9-10=33, 1-20=-19, 9-11=-13

Concentrated Loads (lb)

Vert: 19=-1500(F)

72) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=15, 3-4=15, 4-6=5, 6-9=5, 9-10=0, 13-20=-12, 11-12=-12

Horz: 1-3=-27, 3-4=-27, 6-9=17, 9-10=11, 1-20=7, 9-11=15

Concentrated Loads (lb)

Vert: 19=-1500(F)

73) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=5, 3-4=5, 4-6=5, 6-9=15, 9-10=9, 13-20=-12, 11-12=-12

Horz: 1-3=-17, 3-4=-17, 6-9=27, 9-10=21, 1-20=-15, 9-11=-7

Concentrated Loads (lb)

Vert: 19=-1500(F)

74) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=8, 3-4=8, 4-6=-9, 6-9=-9, 9-10=-4, 13-20=-20, 11-12=-20

Horz: 1-3=-28, 3-4=-28, 6-9=11, 9-10=16, 1-20=24, 9-11=8

Concentrated Loads (lb)

Vert: 19=-1500(F)

75) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-9, 3-4=-9, 4-6=-9, 6-9=8, 9-10=13, 13-20=-20, 11-12=-20

Horz: 1-3=-11, 3-4=-11, 6-9=28, 9-10=33, 1-20=-8, 9-11=-24

Concentrated Loads (lb)

Vert: 19=-1500(F)

76) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-34, 3-4=-65, 4-6=-34, 6-9=-47, 9-10=-42, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20

Horz: 1-3=-21, 3-4=10, 6-9=8, 9-10=12, 1-20=20, 9-11=7

Concentrated Loads (lb)

Vert: 19=-1500(F)

77) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-43, 3-4=-47, 4-6=-34, 6-9=-65, 9-10=-61, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-6

Horz: 1-3=-11, 3-4=-8, 6-9=-10, 9-10=-6, 1-20=-7, 9-11=-20

Concentrated Loads (lb)

Vert: 19=-1500(F)

78) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-34, 3-4=-34, 4-6=-47, 6-9=-47, 9-10=-42, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20

Horz: 1-3=-21, 3-4=-21, 6-9=8, 9-10=12, 1-20=18, 9-11=6

Concentrated Loads (lb)

Vert: 19=-1500(F)

79) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-34, 3-4=-34, 4-6=-47, 6-9=-47, 9-10=-42, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20

Horz: 1-3=-21, 3-4=-21, 6-9=8, 9-10=12, 1-20=18, 9-11=6

Concentrated Loads (lb)

Vert: 19=-1500(F)

79) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T28GR	Piggyback Base Girder	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-47, 3-4=-47, 4-6=-47, 6-9=-34, 9-10=-30, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Horz: 1-3=-8, 3-4=-8, 6-9=21, 9-10=25, 1-20=-6, 9-11=-18

Concentrated Loads (lb)

Vert: 19=-1500(F)

80) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-44, 3-4=-75, 4-6=-44, 6-9=-57, 9-10=-53, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Horz: 1-3=-21, 3-4=10, 6-9=8, 9-10=12, 1-20=20, 9-11=7

Concentrated Loads (lb)

Vert: 19=-1500(F)

81) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-54, 3-4=-57, 4-6=-44, 6-9=-75, 9-10=-71, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-6
Horz: 1-3=-11, 3-4=-8, 6-9=-10, 9-10=-6, 1-20=-7, 9-11=-20

Concentrated Loads (lb)

Vert: 19=-1500(F)

82) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-44, 3-4=-44, 4-6=-57, 6-9=-57, 9-10=-53, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Horz: 1-3=-21, 3-4=-21, 6-9=8, 9-10=12, 1-20=18, 9-11=6

Concentrated Loads (lb)

Vert: 19=-1500(F)

83) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-57, 3-4=-57, 4-6=-57, 6-9=-44, 9-10=-40, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Horz: 1-3=-8, 3-4=-8, 6-9=21, 9-10=25, 1-20=-6, 9-11=-18

Concentrated Loads (lb)

Vert: 19=-1500(F)

84) Reversal: 19th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-10, 3-4=-41, 4-6=-77, 6-9=-22, 9-10=-18, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Horz: 1-3=-21, 3-4=10, 6-9=8, 9-10=12, 1-20=20, 9-11=7

Concentrated Loads (lb)

Vert: 19=-1500(F)

85) Reversal: 20th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-10, 3-4=-108, 4-6=-10, 6-27=-90, 9-27=-47, 9-10=-42, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Horz: 1-3=-21, 3-4=10, 6-9=8, 9-10=12, 1-20=20, 9-11=7

Concentrated Loads (lb)

Vert: 19=-1500(F)

86) Reversal: 21st Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-19, 3-4=-22, 4-6=-77, 6-9=-41, 9-10=-37, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-6
Horz: 1-3=-11, 3-4=-8, 6-9=-10, 9-10=-6, 1-20=-7, 9-11=-20

Concentrated Loads (lb)

Vert: 19=-1500(F)

87) Reversal: 22nd Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-19, 3-4=-90, 4-6=-10, 6-27=-108, 9-27=-65, 9-10=-61, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-6
Horz: 1-3=-11, 3-4=-8, 6-9=-10, 9-10=-6, 1-20=-7, 9-11=-20

Concentrated Loads (lb)

Vert: 19=-1500(F)

88) Reversal: 23rd Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-10, 3-4=-10, 4-6=-90, 6-9=-22, 9-10=-18, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Horz: 1-3=-21, 3-4=-21, 6-9=8, 9-10=12, 1-20=18, 9-11=6

Concentrated Loads (lb)

Vert: 19=-1500(F)

89) Reversal: 24th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-10, 3-4=-77, 4-6=-22, 6-27=-90, 9-27=-47, 9-10=-42, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20
Horz: 1-3=-21, 3-4=-21, 6-9=8, 9-10=12, 1-20=18, 9-11=6

Concentrated Loads (lb)

Vert: 19=-1500(F)

90) Reversal: 25th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T28GR	Piggyback Base Girder	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-22, 3-4=-22, 4-6=-90, 6-9=-10, 9-10=-6, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20

Horz: 1-3=-8, 3-4=-8, 6-9=21, 9-10=25, 1-20=-6, 9-11=-18

Concentrated Loads (lb)

Vert: 19=-1500(F)

91) Reversal: 26th Unbal. Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-22, 3-4=-90, 4-6=-22, 6-27=-77, 9-27=-34, 9-10=-30, 17-20=-20, 17-28=-50, 28-29=-20, 14-29=-50, 13-14=-20, 11-12=-20

Horz: 1-3=-8, 3-4=-8, 6-9=21, 9-10=25, 1-20=-6, 9-11=-18

Concentrated Loads (lb)

Vert: 19=-1500(F)

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T29	Piggyback Base Structural Gable COMMON	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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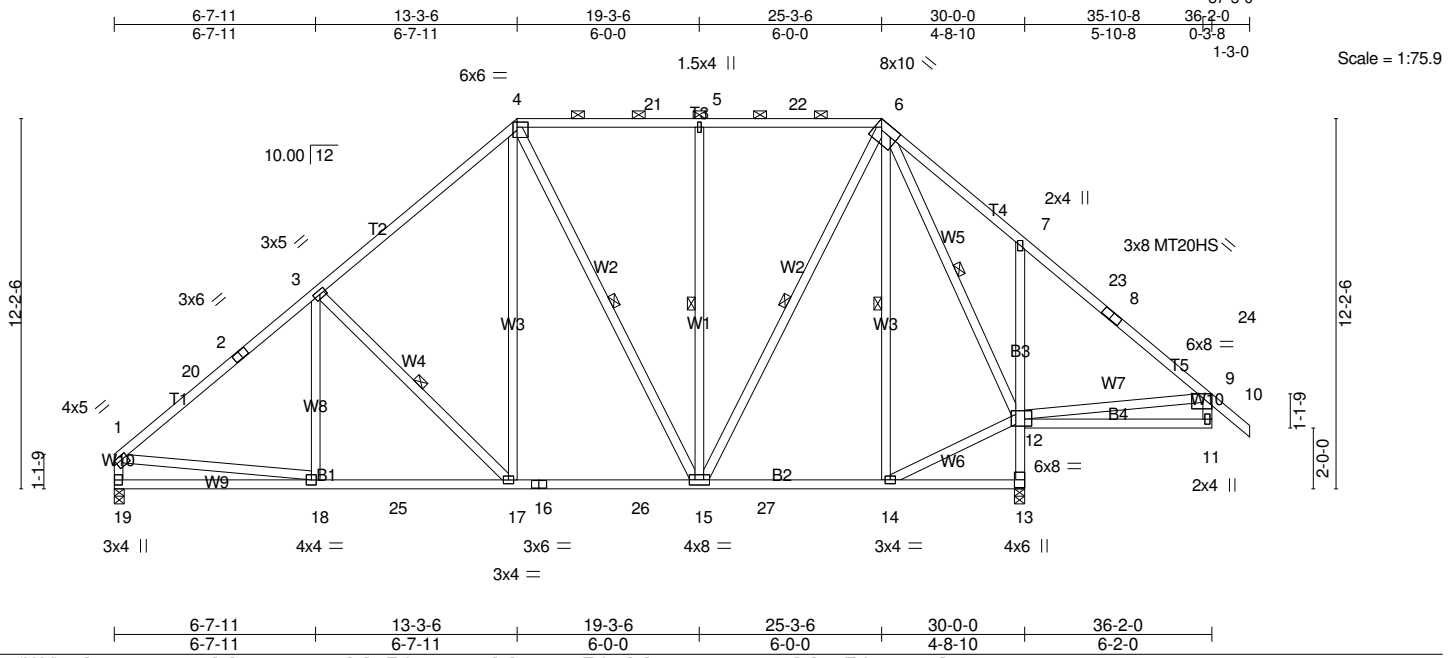


Plate Offsets (X,Y)-- [1:0-1-12,0-1-8], [4:0-4-4,0-2-0], [6:Edge,0-2-11], [9:0-3-8,Edge], [12:0-2-12,0-2-12], [13:Edge,0-3-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 1.00	Vert(LL)	-0.08 15-17	>999	360	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.52	Vert(CT)	-0.13 15-17	>999	240	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.94	Horz(CT)	0.03 13	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 287 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 *Except* T4, T5: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-4-10 max.): 4-6.
BOT CHORD 2x4 SP No.2 *Except* B3: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14 3-2-14 oc bracing: 12-13.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-17, 4-15, 5-15, 6-15, 6-14, 6-12
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 19=1204/0-4-0 (min. 0-1-12), 13=1981/0-4-0 (min. 0-2-15)
Max Horz 19=-302(LC 14)
Max Uplift 19=-147(LC 16), 13=-214(LC 17)
Max Grav 19=1485(LC 39), 13=2490(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-20=-1791/198, 2-20=-1655/199, 2-3=-1434/227, 3-4=-1337/311, 4-21=-911/284,
5-21=-911/284, 5-22=-911/284, 6-22=-911/284, 6-7=-32/756, 7-23=-215/834,
8-23=-220/603, 8-24=-241/586, 9-24=-244/371, 1-19=-1422/196
BOT CHORD 18-19=-290/409, 18-25=-234/1366, 17-25=-234/1366, 16-17=-151/931, 16-26=-151/931,
15-26=-151/931, 15-27=-67/498, 14-27=-67/498, 12-13=-2454/632, 7-12=-720/307,
11-12=-125/294
WEBS 3-17=-701/249, 4-17=-100/713, 4-15=-502/117, 5-15=-868/192, 6-15=-177/1041,
12-14=-81/571, 6-12=-1674/315, 1-18=-14/1079, 9-12=-752/425

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - 6) Provide adequate drainage to prevent water ponding.
 - 7) All plates are MT20 plates unless otherwise indicated.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=147, 13=214.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21-3743-A	T29	Piggyback Base Structural Gable COMMON	1	1	CAIN BUILDERS-MILLER-KOERNER ROOF

Riverside Roof Truss, LLC, Danville, VA. 24541

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NOTES-

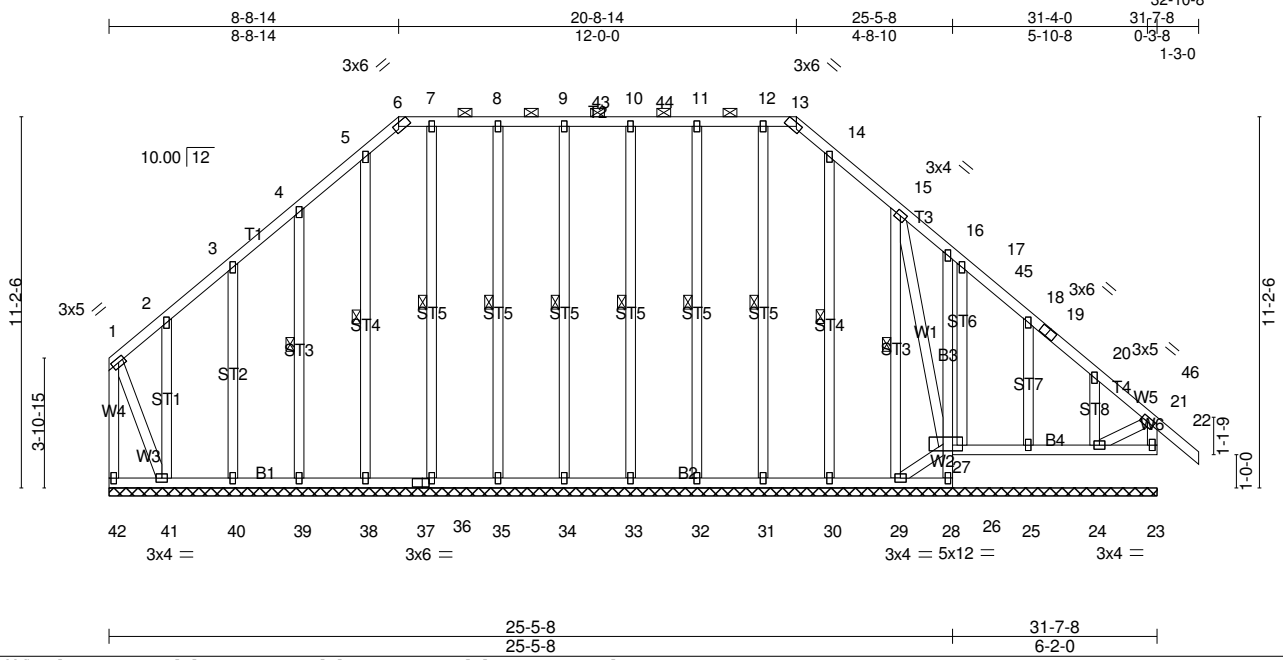
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job 21-3743-A	Truss T30	Truss Type GABLE COMMON	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:69.5

Plate Offsets (X,Y)-- [6:0-3-0,0-0-4], [13:0-3-0,0-0-4], [26:0-7-0,0-2-8], [37:0-2-6,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.19	Vert(LL) -0.01	22	n/r	180	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.08	Vert(CT) -0.01	22	n/r	120		
TCDL 10.0	Lumber DOL 1.15	WB 0.21	Horz(CT) 0.01	23	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2015/TPI2014						Weight: 325 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 B3: 2x4 SP No.3
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-13.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 27-28,26-27,25-26,24-25,23-24.
 WEBS 1 Row at midpt 9-34, 8-35, 7-36, 5-38, 4-39, 10-33, 11-32, 12-31, 14-30, 15-29

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 31-7-8.
 (lb) - Max Horz 42=-325(LC 14)
 Max Uplift All uplift 100 lb or less at joint(s) 28, 23, 34, 35, 38, 39, 40, 33, 32, 31, 30, 26, 25 except 42=-312(LC 14), 41=-322(LC 13), 29=-218(LC 17), 24=-173(LC 17)
 Max Grav All reactions 250 lb or less at joint(s) 28, 26 except 42=365(LC 13), 23=278(LC 30), 34=287(LC 38), 35=293(LC 38), 36=257(LC 38), 38=259(LC 39), 39=293(LC 39), 40=289(LC 39), 41=456(LC 47), 33=287(LC 38), 32=293(LC 38), 31=258(LC 38), 30=260(LC 39), 29=268(LC 49), 25=299(LC 39), 24=289(LC 49)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-42=-344/308, 21-23=-263/116
 BOT CHORD 41-42=-253/283
 WEBS 8-35=-253/75, 4-39=-253/124, 11-32=-253/75, 18-25=-263/115, 1-41=-311/320

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCCL: ASCE 7-10; Pr=30.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	T30	GABLE COMMON	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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NOTES-

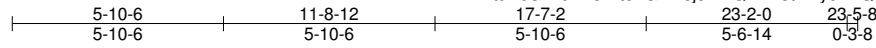
- 13) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 28, 23, 34, 35, 38, 39, 40, 33, 32, 31, 30, 26, 25 except (jt=lb) 42=312, 41=322, 29=218, 24=173.
- 15) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 23, 26, 25, 24.
- 16) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 17) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job 21-3743-A	Truss T31	Truss Type Common	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF Job Reference (optional)
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Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale: 3/16"=1'

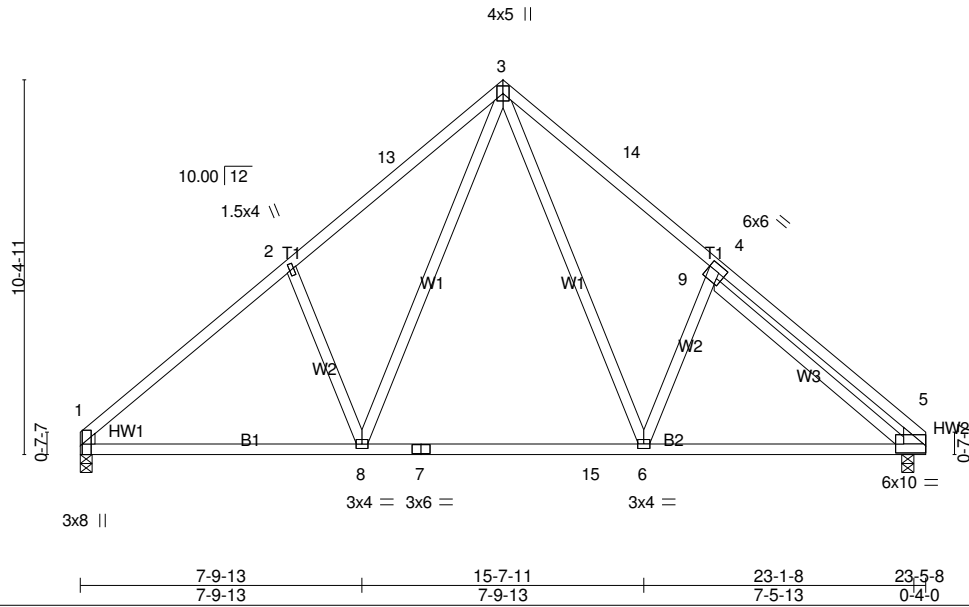


Plate Offsets (X,Y)-- [1:0-3-8,Edge], [4:0-2-3,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.20	6-8	>999	360	MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.26	6-8	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.04	5	n/a	n/a		
BCLL	0.0 *	Code IRC2015/TPI2014		Matrix-MS								
BCDL	10.0											Weight: 140 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-0-14 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=1010/0-4-0 (min. 0-1-8), 5=1010/0-4-0 (min. 0-1-8)
 Max Horz 1=-248(LC 12)
 Max Uplift 1=-87(LC 16), 5=-86(LC 17)
 Max Grav 1=1171(LC 2), 5=1171(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1480/229, 2-13=-1331/333, 3-13=-1166/354, 3-14=-1176/356, 4-14=-1345/335,
 4-5=-1390/208
 BOT CHORD 1-8=-156/1140, 7-8=0/743, 7-15=0/743, 6-15=0/743, 5-6=-67/1058
 WEBS 3-6=-191/696, 6-9=-412/284, 4-9=-449/287, 3-8=-191/674, 2-8=-419/281

NOTES-

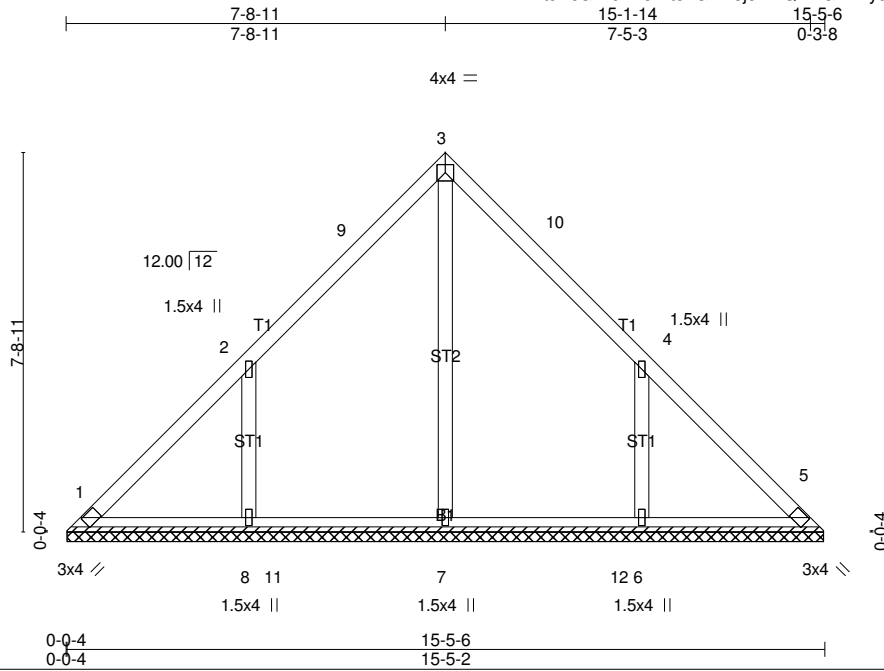
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	V01	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:44 2021 Page 1
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Scale = 1:46.9

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.26	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.19	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.19	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 74 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 15-4-14.
 (lb) - Max Horz 1=182(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-239(LC 16), 6=-238(LC 17)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=395(LC 32), 8=505(LC 29), 6=504(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-370/279, 4-6=-370/279

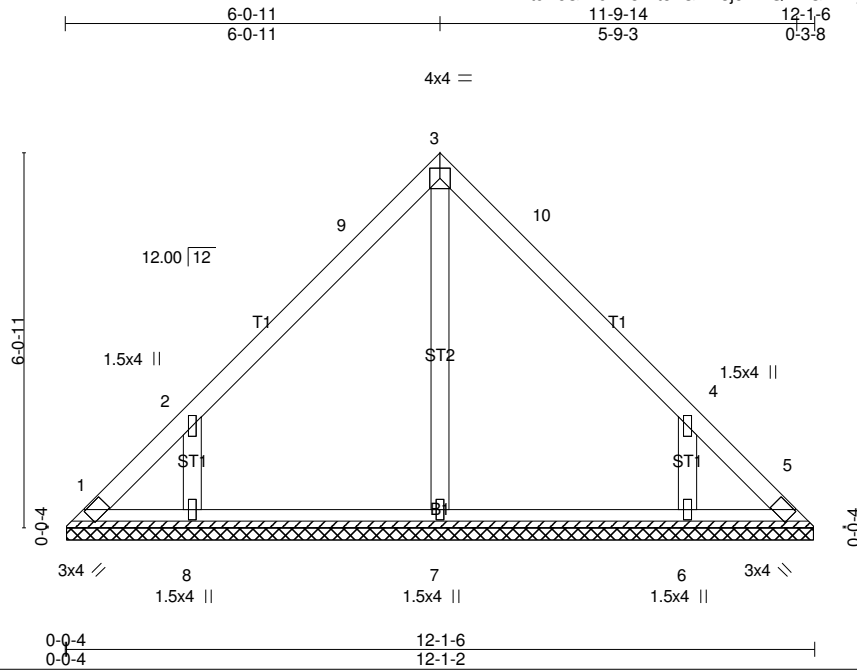
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (j=lb) 8=239, 6=238.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	V02	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:37.2

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.24	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.12	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 55 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 12-0-14.
(lb) - Max Horz 1=-141(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-207(LC 16), 6=-206(LC 17)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=274(LC 2), 8=390(LC 29), 6=389(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-329/250, 4-6=-328/250

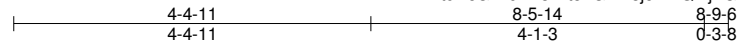
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (it=lb) 8=207, 6=206.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 21-3743-A	Truss V03	Truss Type Valley	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF Job Reference (optional)
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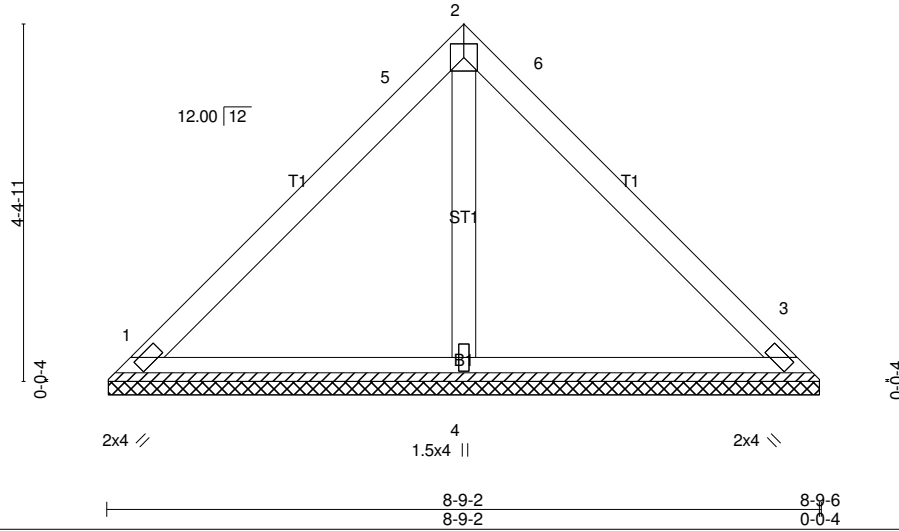
Riverside Roof Truss, LLC, Danville, VA. 24541

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4x4 =

Scale = 1:28.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.43	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.17	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.07	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 36 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=212/8-8-14 (min. 0-1-8), 3=212/8-8-14 (min. 0-1-8), 4=272/8-8-14 (min. 0-1-8)
Max Horz 1=100(LC 13)
Max Uplift 1=-48(LC 17), 3=-48(LC 17)
Max Grav 1=250(LC 2), 3=250(LC 2), 4=308(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

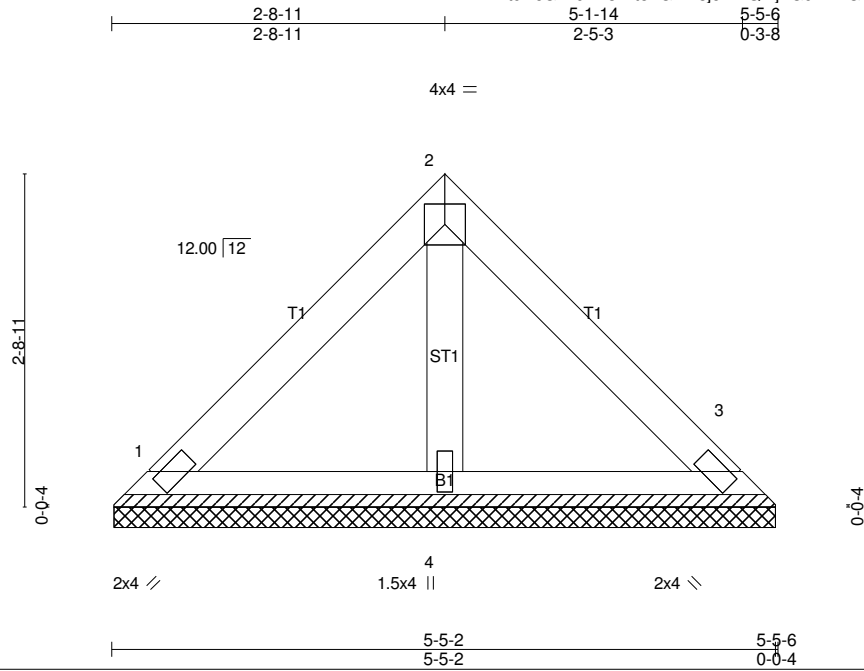
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 21-3743-A	Truss V04	Truss Type Valley	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:18.8

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.14	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.06	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 21 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=125/5-4-14 (min. 0-1-8), 3=125/5-4-14 (min. 0-1-8), 4=160/5-4-14 (min. 0-1-8)
Max Horz 1=-59(LC 12)
Max Uplift 1=-28(LC 17), 3=-28(LC 17)
Max Grav 1=147(LC 2), 3=147(LC 2), 4=181(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

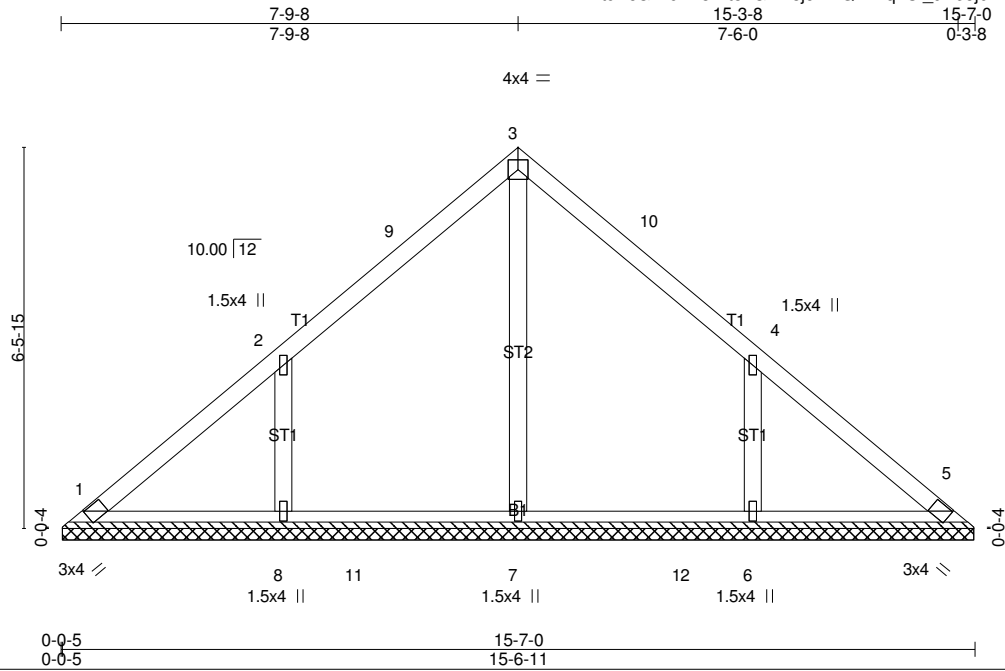
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	V05	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:39.3

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.26	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.17	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.15	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 68 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 15-6-6.
 (lb) - Max Horz 1=152(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-187(LC 16), 6=-187(LC 17)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=390(LC 32), 8=473(LC 29), 6=472(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-357/230, 4-6=-357/230

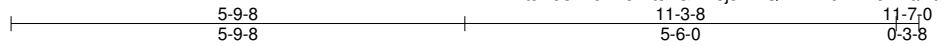
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=187, 6=187.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

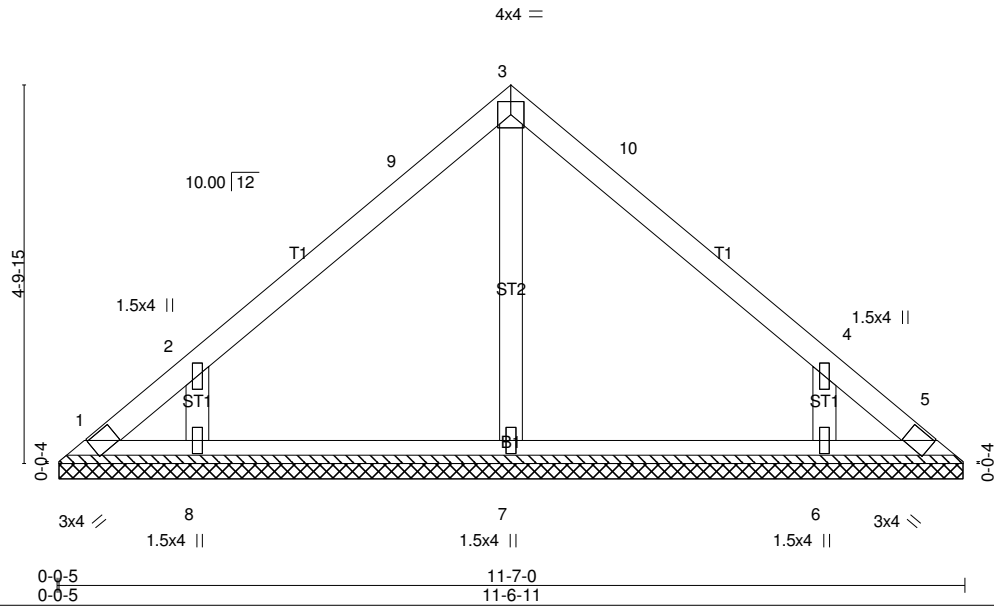
Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	V06	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:29.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.25	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.09	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 47 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 11-6-6.
 (lb) - Max Horz 1=111(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-165(LC 16), 6=-165(LC 17)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=297(LC 2), 8=380(LC 29), 6=379(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-322/210, 4-6=-322/210

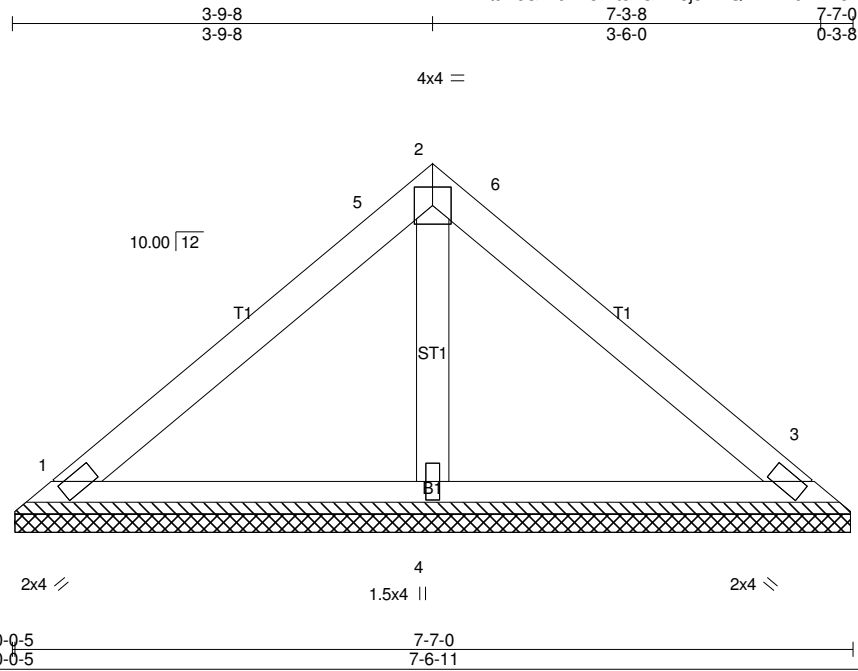
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=165, 6=165.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 21-3743-A	Truss V07	Truss Type Valley	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:47 2021 Page 1
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Scale = 1:20.8

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.29	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.05	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 28 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=169/7-6-6 (min. 0-1-8), 3=169/7-6-6 (min. 0-1-8), 4=246/7-6-6 (min. 0-1-8)
Max Horz 1=-70(LC 12)
Max Uplift1=-33(LC 17), 3=-41(LC 17)
Max Grav 1=199(LC 2), 3=199(LC 2), 4=280(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

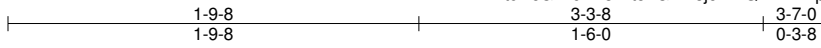
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

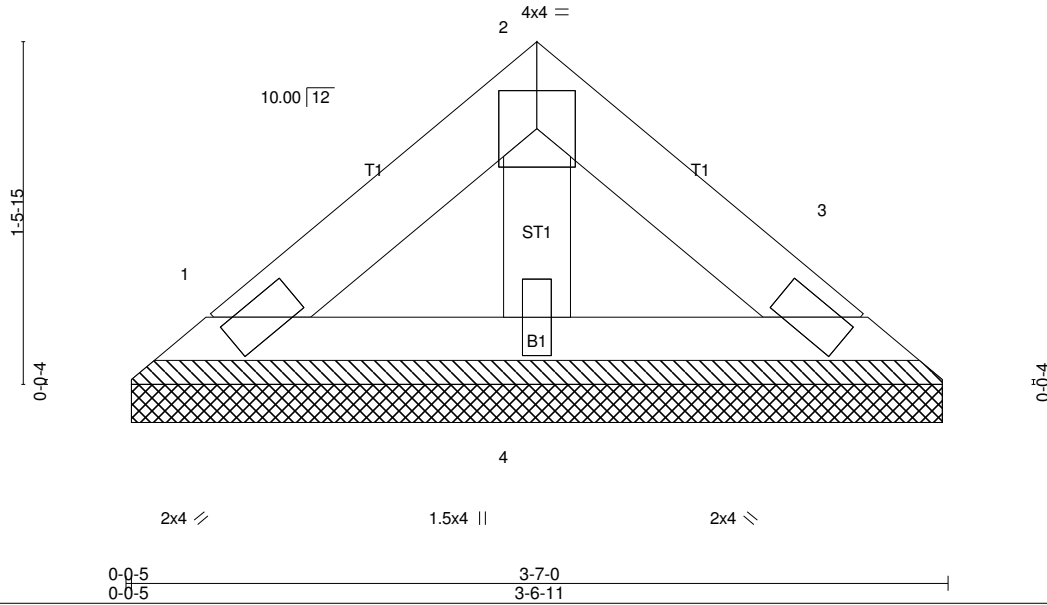
Job 21-3743-A	Truss V08	Truss Type Valley	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:48 2021 Page 1
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Scale = 1:10.0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.04	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 12 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 3-7-0 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=69/3-6-6 (min. 0-1-8), 3=69/3-6-6 (min. 0-1-8), 4=101/3-6-6 (min. 0-1-8)
Max Horz 1=-29(LC 12)
Max Uplift 1=-13(LC 17), 3=-17(LC 17)
Max Grav 1=82(LC 2), 3=82(LC 2), 4=115(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

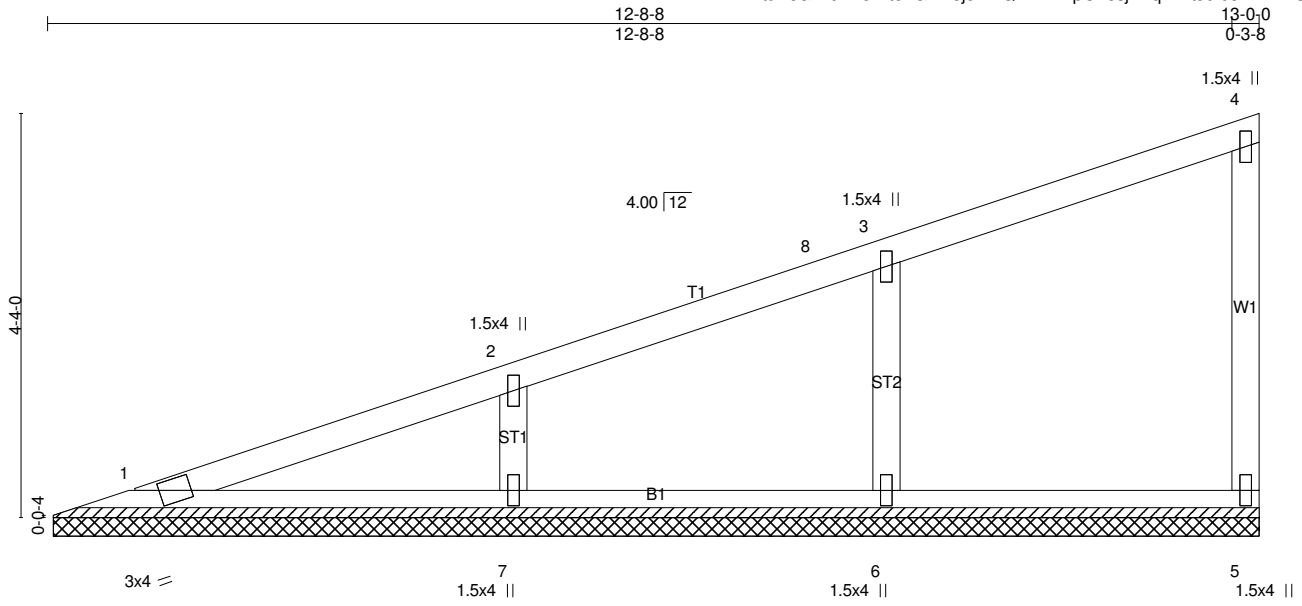
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	V09	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:48 2021 Page 1
ID:tuKcGkndK28Ert51GwX8jcz2kQv-71xmpO?8sj2Rq1L1tJbfb8XPDLkUXQcRCZx5kz2if



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.27	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.13	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.08	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.00 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 49 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 12-11-4.
(lb) - Max Horz 1=168(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 5, 6, 7
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=414(LC 22), 7=451(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-334/171, 2-7=-351/174

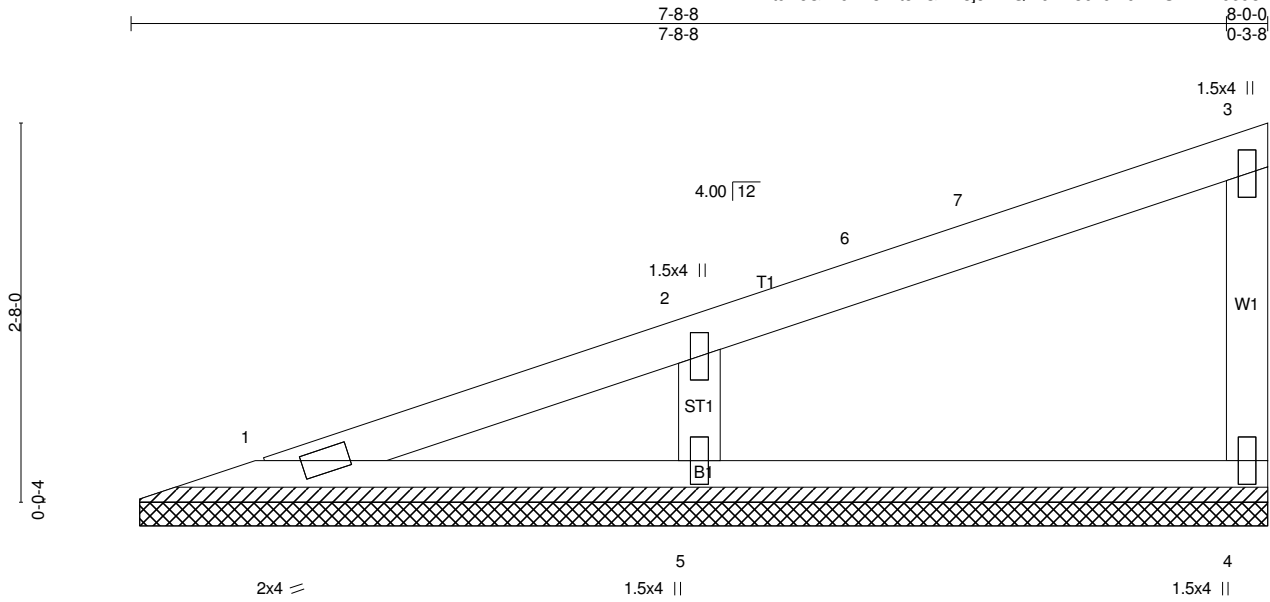
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6, 7.
 - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 21-3743-A	Truss V10	Truss Type Valley	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:49 2021 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.27	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.07	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 27 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=88/7-11-4 (min. 0-1-8), 4=131/7-11-4 (min. 0-1-8), 5=376/7-11-4 (min. 0-1-8)
Max Horz 1=98(LC 13)
Max Uplift 4=-21(LC 12), 5=-83(LC 12)
Max Grav 1=102(LC 2), 4=153(LC 2), 5=436(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-349/206

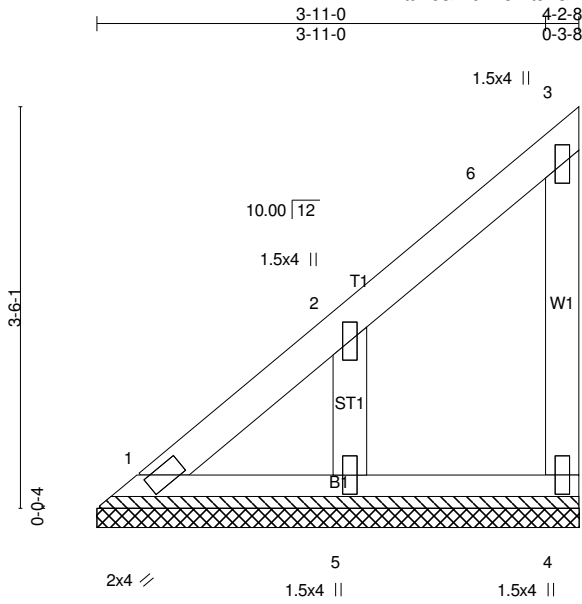
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
 - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 21-3743-A	Truss V11GE	Truss Type GABLE	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF Job Reference (optional)
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Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8:500 s May 17 2021 Print: 8:500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:49 2021 Page 1
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Scale = 1:20.1

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.15	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.03	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 20 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=58/4-2-8 (min. 0-1-8), 4=61/4-2-8 (min. 0-1-8), 5=196/4-2-8 (min. 0-1-8)
Max Horz 1=115(LC 13)
Max Uplift 1=-14(LC 12), 4=-29(LC 13), 5=-94(LC 16)
Max Grav 1=95(LC 30), 4=81(LC 29), 5=234(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

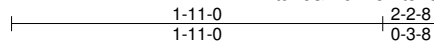
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4, 5.
 - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

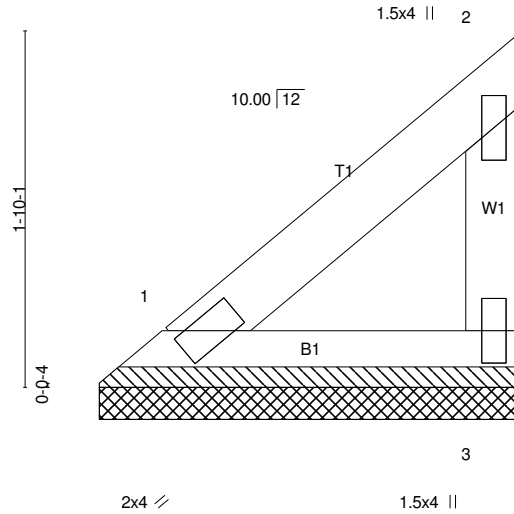
Job 21-3743-A	Truss V12	Truss Type Valley	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF Job Reference (optional)
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Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.500 s May 17 2021 Print: 8.500 s May 17 2021 MiTek Industries, Inc. Fri Jun 25 15:35:50 2021 Page 1
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Scale: 1"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.06	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.03	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 9 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=72/2-2-3 (min. 0-1-8), 3=72/2-2-3 (min. 0-1-8)
Max Horz 1=52(LC 13)
Max Uplift 1=-1(LC 16), 3=-24(LC 16)
Max Grav 1=83(LC 2), 3=89(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

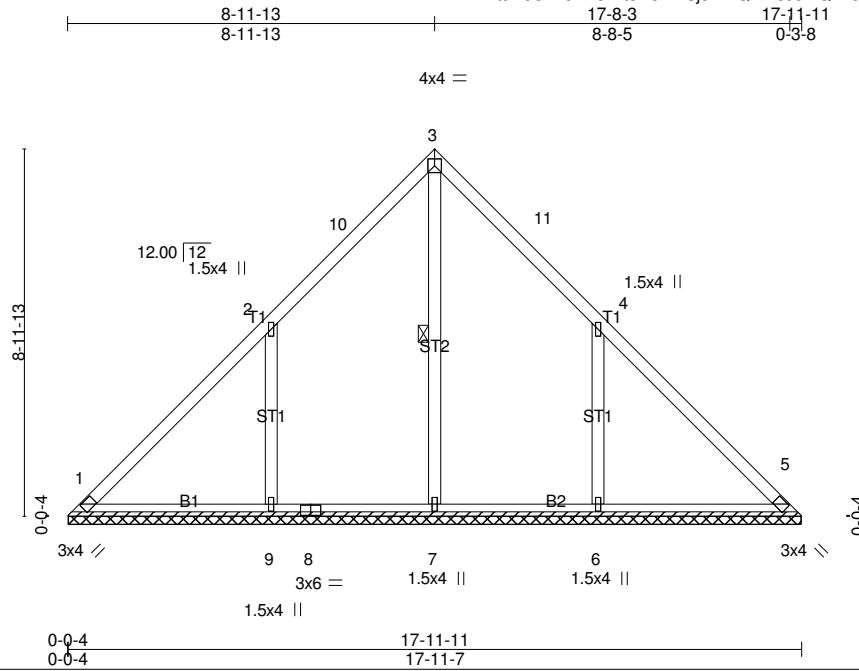
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 21-3743-A	Truss V13	Truss Type Valley	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale = 1:56.4

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.36	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.18	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.18	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 89 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-7

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 17-11-3.
(lb) - Max Horz 1=-214(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-283(LC 16), 6=-283(LC 17)
Max Grav All reactions 250 lb or less at joint(s) 5 except 1=250(LC 30), 7=395(LC 32), 9=609(LC 29), 6=609(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-437/328, 4-6=-437/328

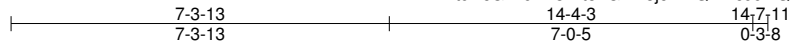
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=283, 6=283.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 21-3743-A	Truss V14	Truss Type Valley	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
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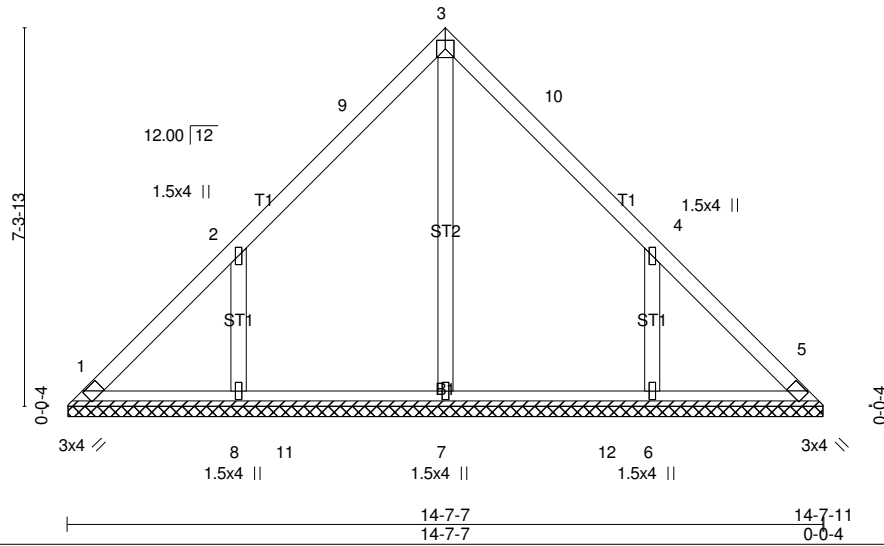
Riverside Roof Truss, LLC, Danville, VA. 24541

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4x4 =

Scale = 1:44.6



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.25	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.18	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.17	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 69 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 14-7-3.
(lb) - Max Horz 1=172(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-227(LC 16), 6=-227(LC 17)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=389(LC 32), 8=471(LC 29), 6=470(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-353/267, 4-6=-353/267

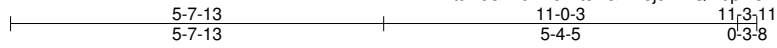
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (j=lb) 8=227, 6=227.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	CAIN BUILDERS-MILLER-KOERNER ROOF
21-3743-A	V15	Valley	1	1	Job Reference (optional)

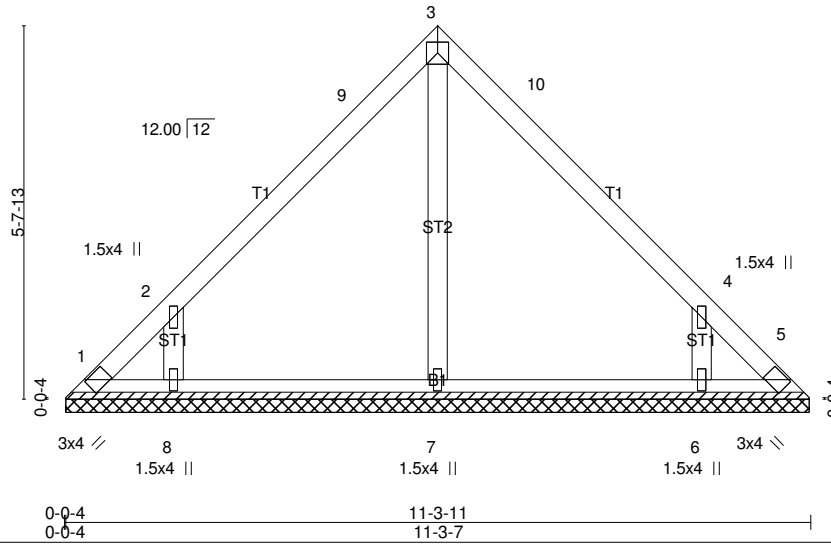
Riverside Roof Truss, LLC, Danville, VA. 24541

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4x4 =

Scale = 1:34.9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.25	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.10	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 50 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.
 Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 11-3-3.
 (lb) - Max Horz 1=-131(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-211(LC 16), 6=-211(LC 17)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=272(LC 2), 8=395(LC 29), 6=395(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-339/259, 4-6=-339/259

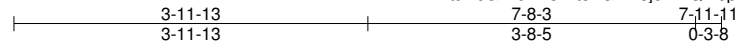
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (j=lb) 8=211, 6=211.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 21-3743-A	Truss V16	Truss Type Valley	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
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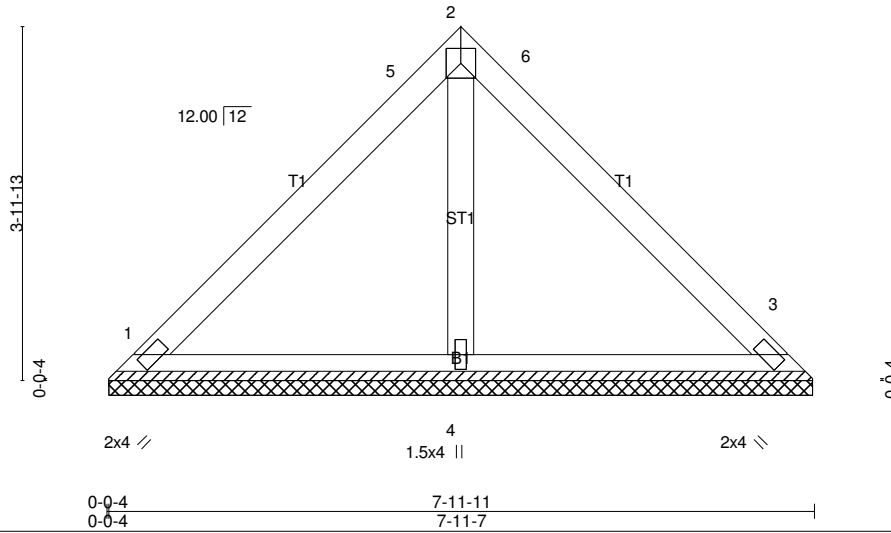
Riverside Roof Truss, LLC, Danville, VA. 24541

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4x4 =

Scale = 1:26.0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.34	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.13	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.06	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 32 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=191/7-11-3 (min. 0-1-8), 3=191/7-11-3 (min. 0-1-8), 4=245/7-11-3 (min. 0-1-8)
Max Horz 1=90(LC 15)
Max Uplift 1=-43(LC 17), 3=-43(LC 17)
Max Grav 1=225(LC 2), 3=225(LC 2), 4=277(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

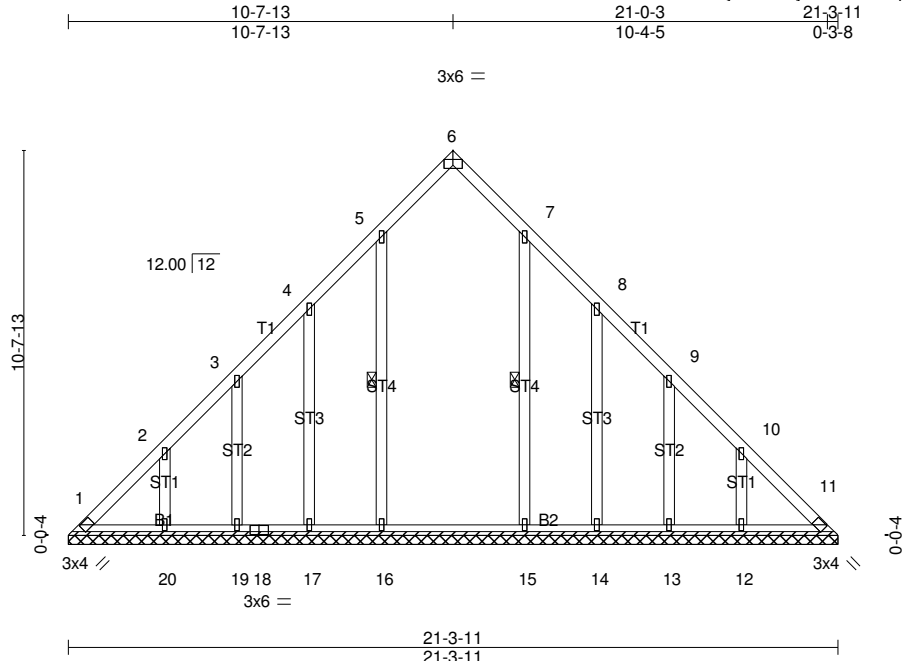
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 21-3743-A	Truss V18GE	Truss Type GABLE	Qty 1	Ply 1	CAIN BUILDERS-MILLER-KOERNER ROOF
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Riverside Roof Truss, LLC, Danville, VA. 24541

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Scale: 3/16"=1'

Plate Offsets (X,Y)-- [6:0-3-0,Edge], [7:0-1-15,0-0-12], [8:0-1-15,0-0-12], [9:0-1-15,0-0-12], [10:0-1-15,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.10	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.14	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.13	Horz(CT)	0.01	11	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S					Weight: 136 lb	FT = 20%
BCDL 10.0	Code IRC2015/TPI2014							

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-16, 7-15

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 21-3-11.
(lb) - Max Horz 1=-255(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 16, 19, 15, 13 except 17=-125(LC 16), 20=-134(LC 16), 14=-128(LC 17), 12=-134(LC 17)
Max Grav All reactions 250 lb or less at joint(s) 17, 19, 14, 13 except 1=289(LC 16), 11=285(LC 17), 16=335(LC 29), 20=262(LC 29), 15=328(LC 30), 12=263(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-431/291, 2-3=-303/182, 9-10=-296/182, 10-11=-425/291
BOT CHORD 1-20=-223/335, 19-20=-223/335, 18-19=-223/335, 17-18=-223/335, 16-17=-223/335, 15-16=-223/335, 14-15=-223/335, 13-14=-223/335, 12-13=-223/335, 11-12=-223/335

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-10; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 16, 19, 15, 13 except (jt=lb) 17=125, 20=134, 14=128, 12=134.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard