

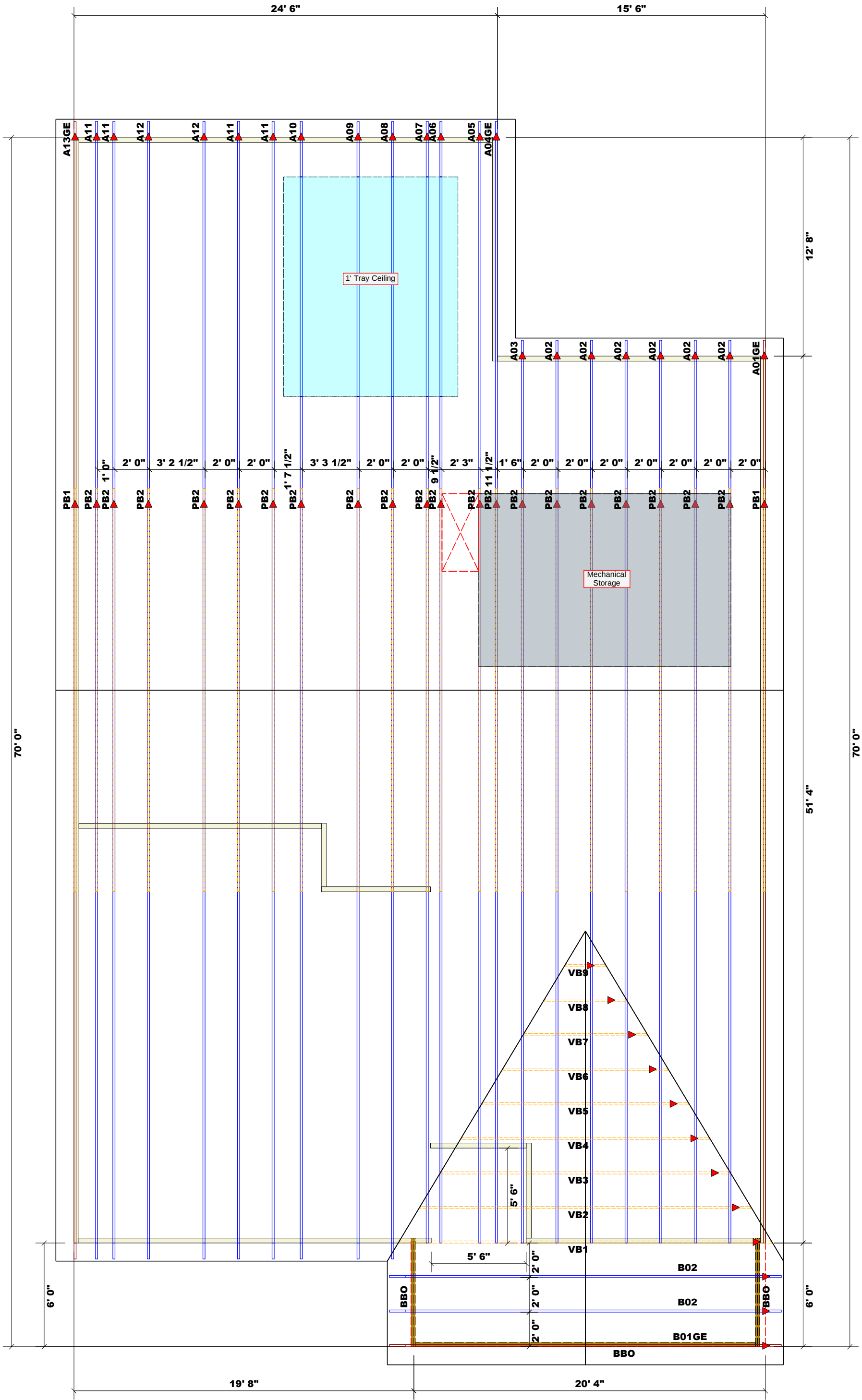
Dimension Notes
1. All exterior wall to wall dimensions are to face of stud unless noted otherwise
2. All interior wall dimensions are to face of stud unless noted otherwise
3. All exterior wall to truss dimensions are to face of stud unless noted otherwise

3108.93 sq.ft. Roof Area
67.18 ft. Ridge Line
0 ft. Hip Line
140.43 ft. Horiz. OH
177.6 ft. Raked OH
107 sheets Decking

All Walls Shown Are
Considered Load Bearing

= Indicates Left End of Truss ▲
(Reference Engineered Truss Drawing)
Do Not Erect Trusses Backwards

WALL SCHEDULE	
1st Floor Walls	
2nd Floor Walls	
Non-Bearing Walls	
Garage Walls Dropped	



Truss Placement Plan
SCALE: NTS

▲ = Indicates Left End of Truss
(Reference Engineered Truss Drawing)
Do NOT Erect Truss Backwards

LOAD CHART FOR JACK STUDS			
(BASED ON TABLES R502.5(1) & (b))			
NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADS/GUDES			
END REACTION (UP TO)	END REACTION (UP TO)	END REACTION (UP TO)	END REACTION (UP TO)
1700	2550	3400	
3400	5100	6800	
5100	7650	10200	
6800	10200	13600	
8500	12750	17000	
10200	15300		
11900			
13600			
15300			

BUILDER	New Home Inc.
JOB NAME	Lot 44 Duncan's Creek
PLAN	The Clayton - Low Country - Face
SEAL DATE	Seal Date
QUOTE #	Quote #
JOB #	J0525-2855

CITY / CO.	Lillington / Harnette
ADDRESS	1047 Beacon Hill Road
MODEL	Roof
DATE REV.	6/3/25
DRAWN BY	Johnnie Baggett
SALES REP.	Johnnie Baggett

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, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature Johnnie Baggett
Johnnie Baggett



ROOF & FLOOR
TRUSSES & BEAMS

Reilly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444

Plumbing Drop Notes
1. Plumbing drop locations shown are NOT exact.
2. Contractor to verify ALL plumbing drop locations prior to setting Floor Trusses.
3. Adjust spacing as needed not to exceed 19.2'oc.

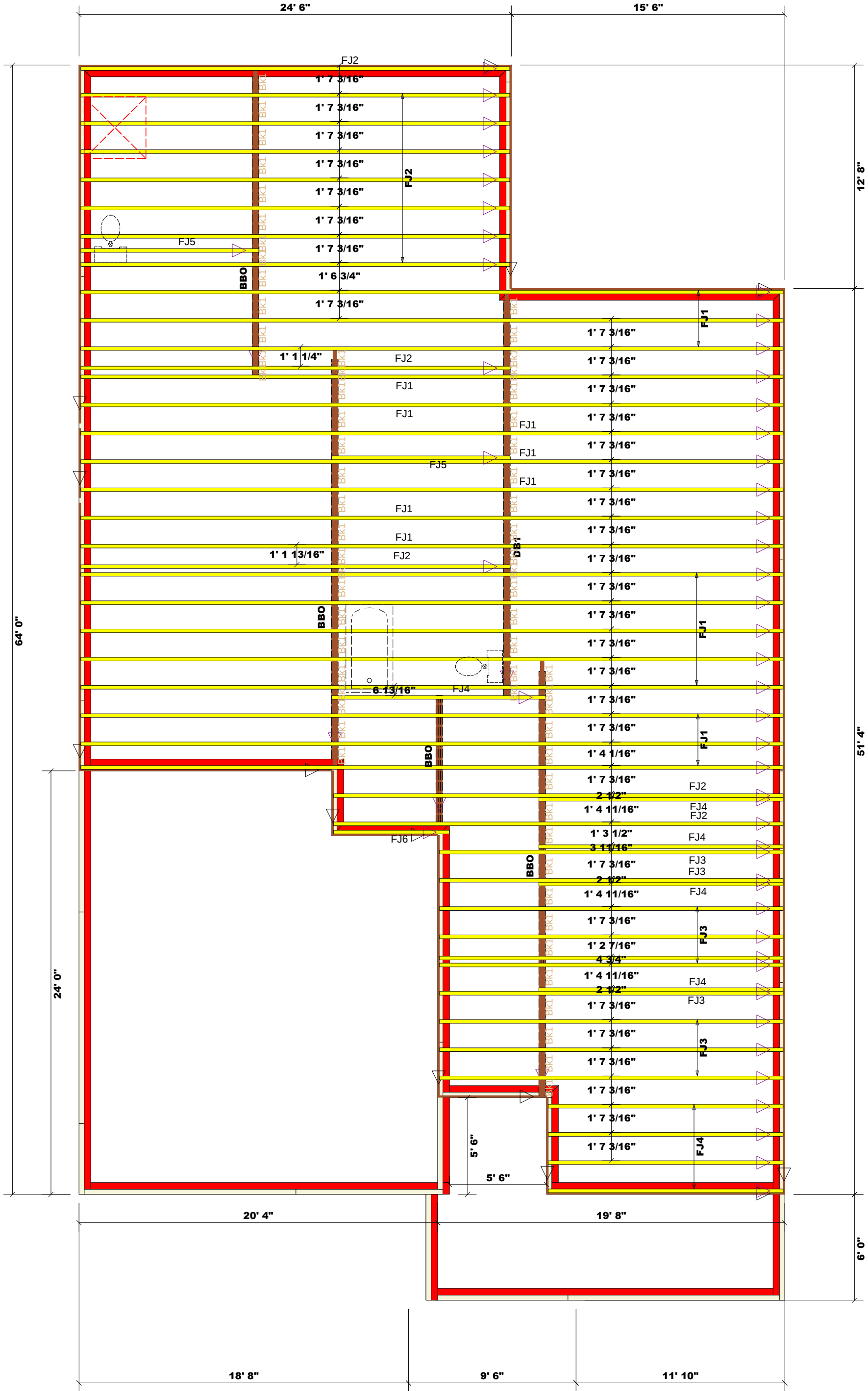
Dimension Notes
1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise.
2. All interior wall dimensions are to face of stud unless noted otherwise.
3. All exterior wall to truss dimensions are to face of stud unless noted otherwise.

All Walls Shown Are
Considered Load Bearing

= Indicates Left End of Truss ▲
(Reference Engineered Truss Drawing)
Do Not Erect Trusses Backwards

WALL SCHEDULE				
1st Floor Walls				
2nd Floor Walls				
Non-Bearing Walls				
Garage Walls Dropped				

Products				
Net Qty	Plies	Product	Length	PlotID
18	1	11 7/8" NI-40x	40' 0"	FJ1
12	1	11 7/8" NI-40x	26' 0"	FJ2
10	1	11 7/8" NI-40x	20' 0"	FJ3
9	1	11 7/8" NI-40x	14' 0"	FJ4
2	1	11 7/8" NI-40x	12' 0"	FJ5
1	1	11 7/8" NI-40x	8' 0"	FJ6
18	1	1 1/8" x 11 7/8" Rim Board	12' 0"	RIM1
65	1	11 7/8" NI-40x	2' 0"	Bk1



Truss Placement Plan
SCALE: NTS

▲ = Indicates Left End of Truss
(Reference Engineered Truss Drawing)
Do NOT Erect Truss Backwards

LOAD CHART FOR JACK STUDS			
(BASED ON TABLES R502.5(1) & (b))			
NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADERS/GUDES			
END REACTION (UP TO) 1700	END REACTION (UP TO) 2550	END REACTION (UP TO) 3400	END REACTION (UP TO) 4250
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

BUILDER	New Home Inc.
JOB NAME	Lot 44 Duncan's Creek
PLAN	The Clayton - Low Country - Face
SEAL DATE	Seal Date
QUOTE #	Quote #
JOB #	J0625-3141

CITY / CO.	Lillington / Harnett
ADDRESS	1047 Beacon Hill Road
MODEL	Crawl
DATE REV.	6/20/25
DRAWN BY	Johnnie Baggett
SALES REP.	Johnnie Baggett

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, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature _____
Johnnie Baggett
Johnnie Baggett



**ROOF & FLOOR
TRUSSES & BEAMS**

Reilly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: J0625-2855
Lot 44 Duncan's Creek

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I73927450 thru I73927475

My license renewal date for the state of North Carolina is December 31, 2025.

North Carolina COA: C-0844



June 4, 2025

Gilbert, Eric

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	Lot 44 Duncan's Creek
J0625-2855	A01GE	GABLE	1	1	173927450
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 10:48:48 2025 Page 1

ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-11-0 7-8-0 31-0-0 51-4-0

0-11-0 7-8-0 23-4-0 20-4-0

Scale = 1:92.2

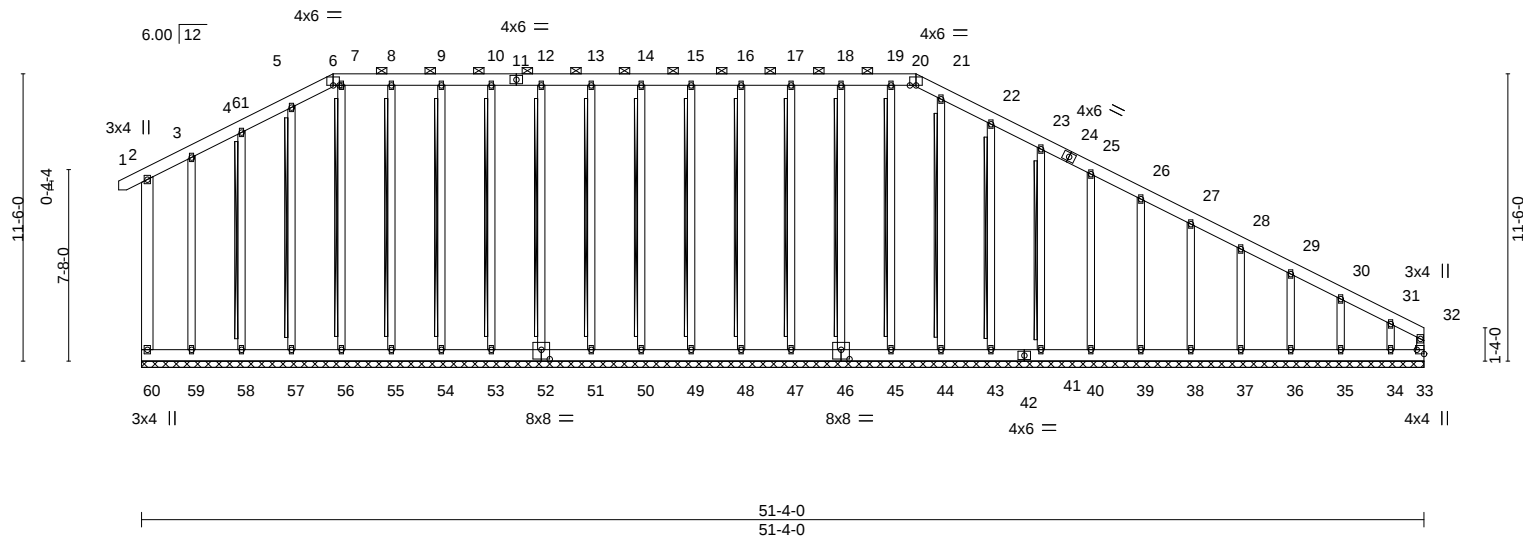


Plate Offsets (X,Y)--	[33:Edge,0-3-8], [46:0-4-0,0-4-8], [52:0-4-0,0-4-8]
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LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15		TC 0.25	Vert(LL) -0.00	1	n/r	120		MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.11	Vert(CT) -0.00	1	n/r	120			
BCLL 0.0 *	Rep Stress Incr YES		WB 0.14	Horz(CT) 0.01	33	n/a	n/a			
BCDL 10.0	Code IRC2021/TPI2014		Matrix-R							
									Weight: 579 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	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.): 6-20.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1 *Except*	WEBS T-Brace: 2x4 SPF No.2 - 4-58, 5-57, 7-56, 8-55, 9-54, 10-53, 12-52, 13-51, 14-50, 15-49, 16-48, 17-47, 18-46, 19-45, 21-44, 22-43, 23-41
OTHERS 2x4 SP No.2	Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS.	All bearings 51-4-0.
(lb) - Max Horz 60=-386(LC 10)	
Max Uplift	All uplift 100 lb or less at joint(s) 60, 59, 58, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 47, 46, 45, 44, 43, 41, 40, 39, 38, 37, 36, 35 except 33=-126(LC 11), 34=-329(LC 13)
Max Grav	All reactions 250 lb or less at joint(s) 60, 59, 58, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 47, 46, 45, 44, 43, 41, 40, 39, 38, 37, 36, 35, 34 except 33=395(LC 8)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-60=-177/281, 2-3=-208/321, 3-4=-201/337, 4-5=-224/399, 5-6=-232/434, 6-7=-215/419, 7-8=-215/419, 8-9=-215/419, 9-10=-215/419, 10-12=-215/419, 12-13=-215/419, 13-14=-215/419, 14-15=-215/419, 15-16=-215/419, 16-17=-215/419, 17-18=-215/419, 18-19=-215/419, 19-20=-215/419, 20-21=-225/420, 21-22=-232/420, 22-23=-210/359, 23-25=-189/299, 29-30=-266/254, 30-31=-321/273, 31-32=-435/338, 32-33=-290/217
BOT CHORD	59-60=-257/341, 58-59=-257/341, 57-58=-257/341, 56-57=-257/341, 55-56=-257/341, 54-55=-257/341, 53-54=-257/341, 52-53=-257/341, 51-52=-257/341, 50-51=-257/341, 49-50=-257/341, 48-49=-257/341, 47-48=-257/341, 46-47=-257/341, 45-46=-257/341, 44-45=-257/341, 43-44=-257/341, 41-43=-257/341, 40-41=-257/341, 39-40=-257/341, 38-39=-257/341, 37-38=-257/341, 36-37=-257/341, 35-36=-257/341, 34-35=-257/341, 33-34=-257/341

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-9-2 to 4-4-8, Exterior(2N) 4-4-8 to 7-8-0, Corner(3R) 7-8-0 to 12-9-10, Exterior(2N) 12-9-10 to 31-0-0, Corner(3R) 31-0-0 to 36-0-0, Exterior(2N) 36-0-0 to 51-2-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Construction details as applicable, or consult qualified building designer as per ANSI/TPI 1.



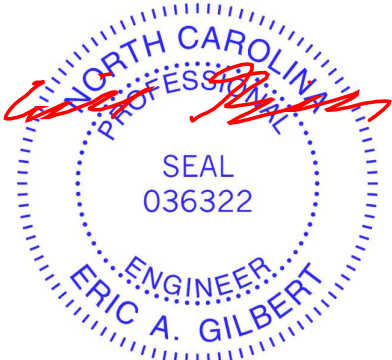
June 4,2025

Job	Truss	Truss Type	Qty	Ply	Lot 44 Duncan's Creek
J0625-2855	A01GE	GABLE	1	1	173927450

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 10:48:48 2025 Page 2
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- NOTES-**
- 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are 2x4 MT20 unless otherwise indicated.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 8) Gable studs spaced at 2-0-0 oc.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) * This truss has been designed for a live load of 30.0psf 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.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 60, 59, 58, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 47, 46, 45, 44, 43, 41, 40, 39, 38, 37, 36, 35 except (jt=lb) 33=126, 34=329.
 - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 13) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



June 4,2025

Job	Truss	Truss Type	Qty	Ply	Lot 44 Duncan's Creek
J0625-2855	A02	PIGGYBACK BASE	6	1	173927451

Comtech, Inc., Fayetteville, NC - 28314,

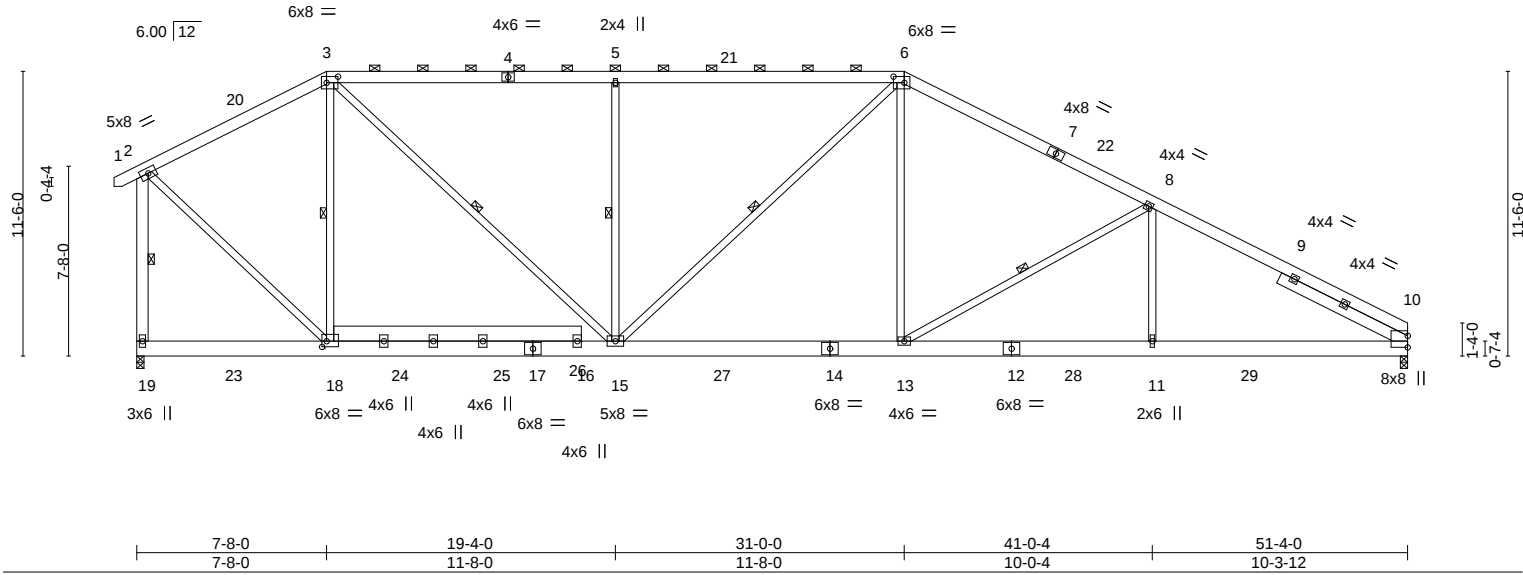
8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 10:48:49 2025 Page 1

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Job Reference (optional)

0-11-0 7-8-0 19-4-0 31-0-0 41-0-4 51-4-0
0-11-0 7-8-0 11-8-0 11-8-0 10-0-4 10-3-12

Scale = 1:93.1



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.23 13-15 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.38 13-15 >999 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.09 10 n/a n/a				
BCDL	10.0	Code IRC2021/TPI2014		Matrix-S		Wind(LL)	0.08 13-15 >999 240				
								Weight: 481 lb FT = 20%			

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1 *Except* 7-10: 2x6 SP 2400F 2.0E	TOP CHORD	Structural wood sheathing directly applied or 2-10-11 oc purlins, except end verticals, and 2-0-0 oc purlins (3-8-15 max.): 3-6.
BOT CHORD	2x8 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2 *Except* 2-19: 2x6 SP No.1	WEBS	1 Row at midpt 3-18, 3-15, 5-15, 6-15, 8-13, 2-19
SLIDER	Right 2x6 SP No.1 5-9-6		

REACTIONS. (size) 19=0-3-8, 10=0-3-8
Max Horz 19=-319(LC 10)
Max Uplift 10=-44(LC 13)
Max Grav 19=2780(LC 2), 10=2556(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1945/345, 3-5=-3020/521, 5-6=-3020/521, 6-8=-3446/565, 8-10=-4380/595, 2-19=-2624/367
BOT CHORD 18-19=-222/331, 15-18=0/1679, 13-15=-141/3022, 11-13=-362/3701, 10-11=-362/3701
WEBS 3-18=-926/388, 3-15=-273/1899, 5-15=-796/344, 6-15=-119/307, 6-13=-23/1006, 8-13=-868/280, 8-11=0/610, 2-18=-184/2268

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 4-4-8, Interior(1) 4-4-8 to 7-8-0, Exterior(2R) 7-8-0 to 14-11-2, Interior(1) 14-11-2 to 31-0-0, Exterior(2R) 31-0-0 to 38-3-2, Interior(1) 38-3-2 to 51-4-0 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 200.0lb AC unit load placed on the bottom chord, 12-11-8 from left end, supported at two points, 5-0-0 apart.
 - 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 30.0psf 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) 10.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 4,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

818 Soundside Road
Edenton, NC 27932

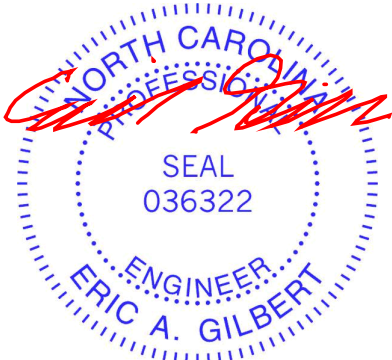
Job	Truss	Truss Type	Qty	Ply	Lot 44 Duncan's Creek
J0625-2855	A04GE	GABLE	1	1	173927453

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 10:48:51 2025 Page 2
ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWwCDoi7J4zJC?f

NOTES-

- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * This truss has been designed for a live load of 30.0psf 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26 except (jt=lb) 2=110, 23=267, 22=377, 27=157, 14=378.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 4,2025

Job	Truss	Truss Type	Qty	Ply	Lot 44 Duncan's Creek
J0625-2855	A05	PIGGYBACK BASE	1	1	173927454

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 10:48:52 2025 Page 1

ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

-0-11-0	10-3-12	20-4-0	32-0-0	43-8-0	53-8-4	64-0-0
0-11-0	10-3-12	10-0-4	11-8-0	11-8-0	10-0-4	10-3-12

Scale = 1:116.1

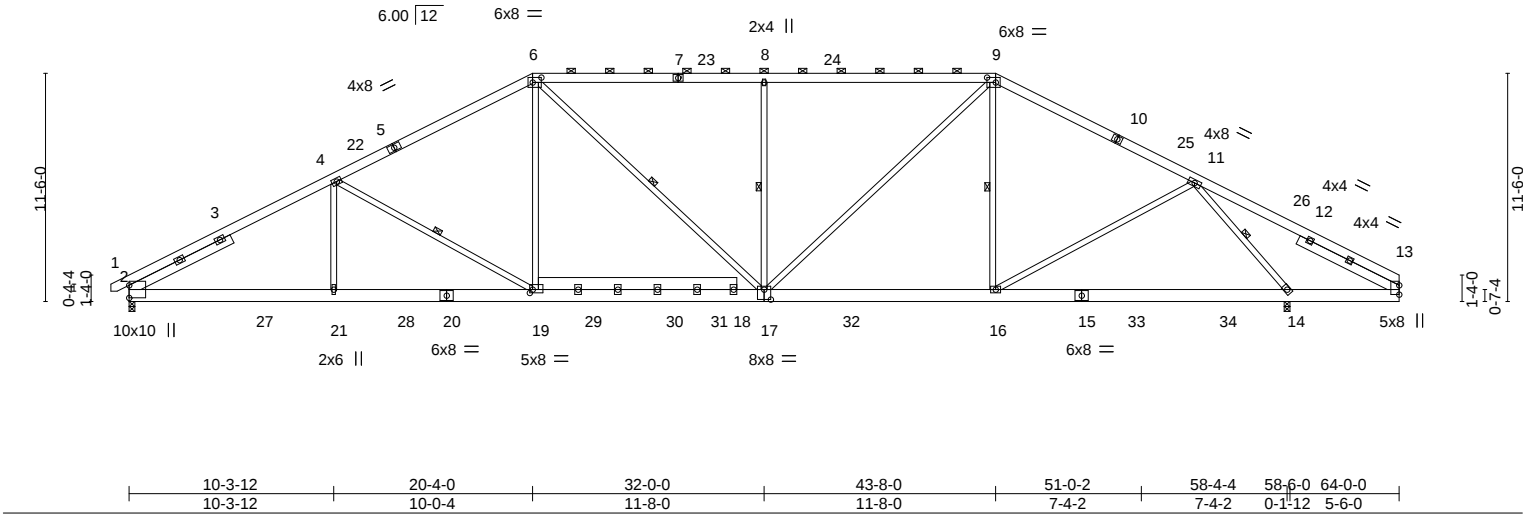


Plate Offsets (X,Y)--	[6:0-5-4,0-3-0], [9:0-5-4,0-3-0], [17:0-4-0,0-6-0], [19:0-1-12,0-2-0]
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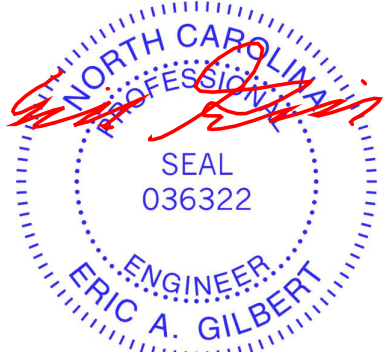
LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.85	Vert(LL) -0.24	16-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.62	Vert(CT) -0.41	17-19	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.96	Horz(CT) 0.11	14	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-S	Wind(LL) 0.10	17	>999	240		
							Weight: 563 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP 2400F 2.0E *Except* 6-7,9-10,7-9: 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-6-8 oc purlins, except 2-0-0 oc purlins (2-2-0 max.): 6-9.
BOT CHORD 2x8 SP No.1 *Except* 2-20,13-15: 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 4-19, 6-17, 8-17, 9-16, 11-14
SLIDER Left 2x6 SP No.1 5-9-6, Right 2x6 SP No.1 5-8-1	

REACTIONS.	(size) 2=0-3-8, 14=0-3-8
Max Horz 2=-153(LC 8)	
Max Uplift 14=-5(LC 13)	
Max Grav 2=2998(LC 2), 14=3456(LC 2)	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-5148/543, 4-6=-4280/500, 6-8=-4077/560, 8-9=-4077/559, 9-11=-3555/450, 11-13=-559/484
BOT CHORD 2-21=-341/4372, 19-21=-341/4372, 17-19=-83/3773, 16-17=-40/3069, 14-16=-93/2091, 13-14=-291/587
WEBS 4-21=0/585, 4-19=-785/297, 6-19=0/1083, 6-17=-178/589, 8-17=-788/348, 9-17=-139/1458, 9-16=-198/316, 11-16=0/1199, 11-14=-3548/970

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 5-2-14, Interior(1) 5-2-14 to 20-4-0, Exterior(2R) 20-4-0 to 28-9-13, Interior(1) 28-9-13 to 43-8-0, Exterior(2R) 43-8-0 to 52-1-13, Interior(1) 52-1-13 to 64-0-0 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 200.0lb AC unit load placed on the bottom chord, 25-7-8 from left end, supported at two points, 5-0-0 apart.
 - WARNING:** This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 4x6 MT20 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 30.0psf 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) 14.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 4,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

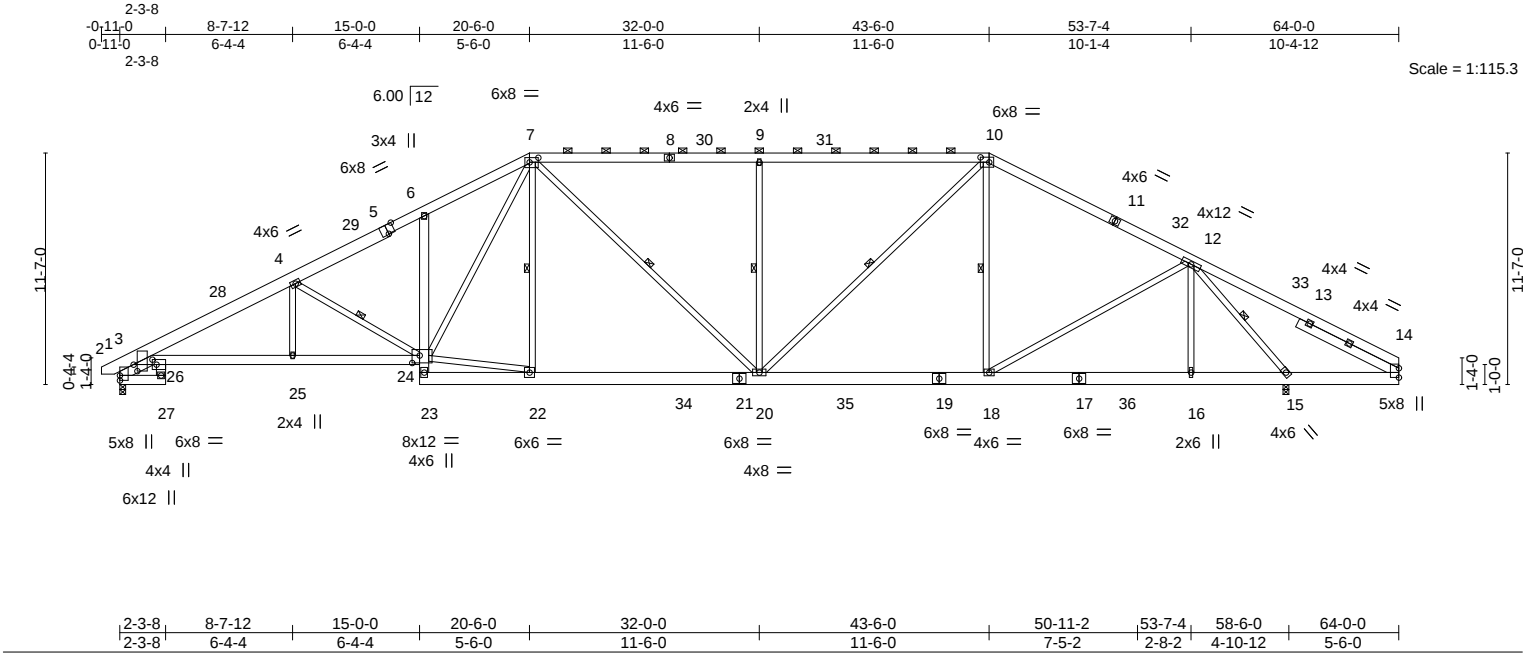
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 44 Duncan's Creek
J0625-2855	A06	PIGGYBACK BASE	1	1	173927455
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 10:48:52 2025 Page 1
ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



LOADING (psf)		SPACING-		CSL		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.32 20-22 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.53 20-22 >999 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.26 15 n/a n/a				
BCDL	10.0	Code IRC2021/TPI2014		Matrix-S		Wind(LL)	0.14 6 >999 240				
								Weight: 571 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1 *Except* 1-5: 2x8 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 2-10-6 oc purlins, except
BOT CHORD	2x6 SP No.1 *Except* 3-24: 2x6 SP 2400F 2.0E, 21-23,17-19,19-21: 2x8 SP No.1 14-17: 2x8 SP 2400F 2.0E	BOT CHORD	2-0-0 oc purlins (3-2-14 max.): 7-10. Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS	2x4 SP No.2	WEBS	6-0-0 oc bracing: 14-15.
SLIDER	Left 2x6 SP No.1 1-9-4, Right 2x6 SP No.1 5-7-10		1 Row at midpt 4-24, 7-22, 7-20, 9-20, 10-20, 10-18, 12-15

REACTIONS.	
(size)	2=0-3-8, 15=0-3-8
Max Horz	2=-155(LC 8)
Max Uplift	2=-100(LC 12), 15=-94(LC 13)
Max Grav	2=2728(LC 2), 15=3305(LC 2)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-2742/525, 3-4=-5695/907, 4-6=-4730/829, 6-7=-4582/949, 7-9=-3773/769, 9-10=-3772/769, 10-12=-3354/599, 12-14=-411/464
BOT CHORD	2-27=-190/763, 3-26=-506/4311, 25-26=-684/5066, 24-25=-684/5066, 22-23=-112/744, 20-22=-293/3423, 18-20=-172/2888, 16-18=-101/2052, 15-16=-101/2052, 14-15=-275/463
WEBS	4-25=0/505, 4-24=-1140/269, 22-24=-185/2718, 7-24=-363/1435, 7-20=-167/644, 9-20=-786/349, 10-20=-243/1310, 10-18=-167/309, 12-18=-139/1010, 12-16=-26/286, 12-15=-3616/775

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-7-2 to 5-4-14, Interior(1) 5-4-14 to 20-6-0, Exterior(2R) 20-6-0 to 28-11-13, Interior(1) 28-11-13 to 43-6-0, Exterior(2R) 43-6-0 to 51-11-13, Interior(1) 51-11-13 to 64-0-0 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - WARNING:** This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
 - 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 30.0psf 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) 2, 15.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

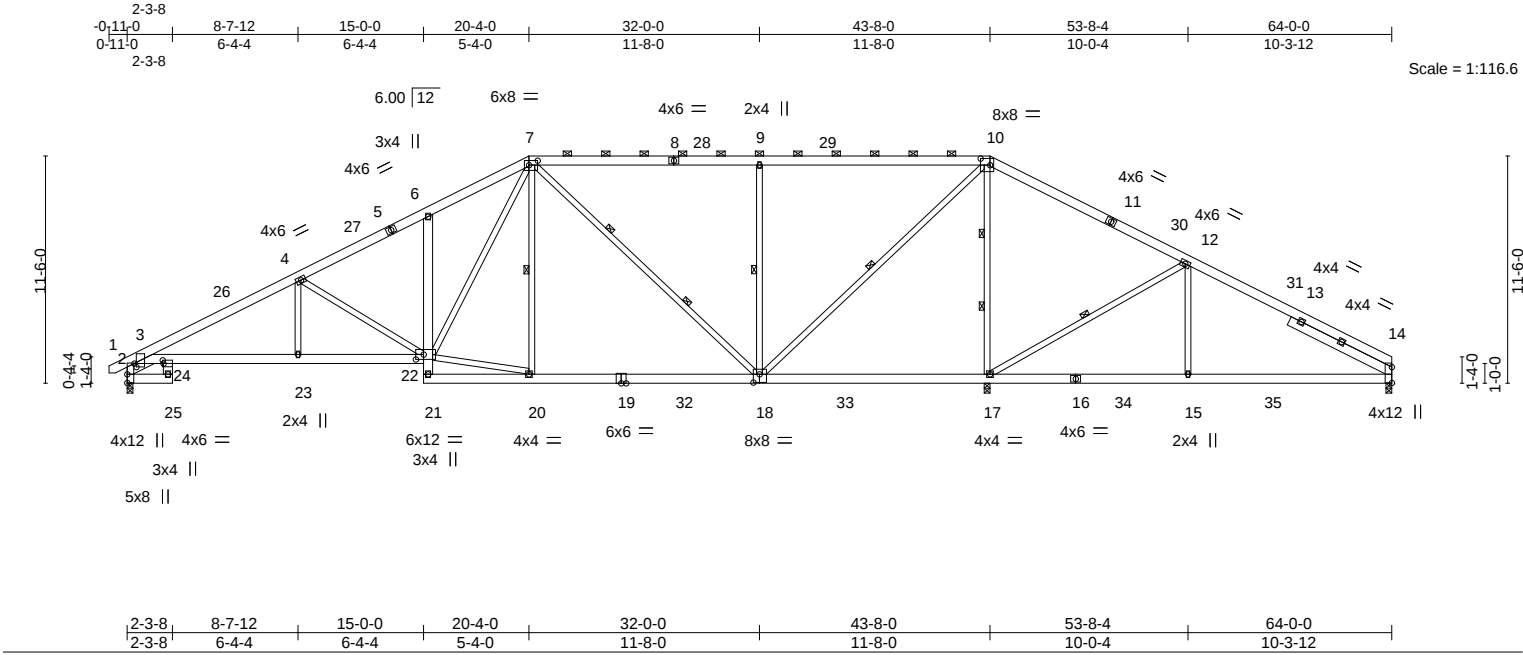


June 4,2025

Job	Truss	Truss Type	Qty	Ply	Lot 44 Duncan's Creek
J0625-2855	A07	PIGGYBACK BASE	1	1	173927456
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 10:48:53 2025 Page 1
ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



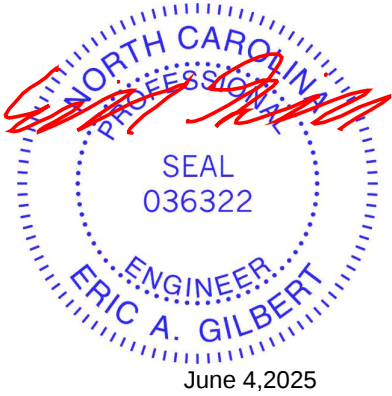
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.27 18-20 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.43 18-20 >999 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.16 14 n/a n/a				
BCDL	10.0	Code IRC2021/TPI2014		Matrix-S		Wind(LL)	0.10 23-24 >999 240				
								Weight: 513 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 3-8-6 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-10.
BOT CHORD	2x6 SP No.1 *Except* 16-18: 2x6 SP 2400F 2.0E	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.2 *Except* 7-20,9-18,10-17: 2x4 SP No.1	WEBS	1 Row at midpt 7-20, 9-18, 10-18, 12-17 2 Rows at 1/3 pts 7-18, 10-17
SLIDER	Left 2x6 SP No.1 1-5-12, Right 2x6 SP No.1 5-10-2		

REACTIONS.	
(size)	2=0-3-8, 17=0-3-8, 14=0-3-8
Max Horz	2=-156(LC 8)
Max Uplift	2=-110(LC 12), 17=-1(LC 9), 14=-142(LC 13)
Max Grav	2=1816(LC 27), 17=3849(LC 2), 14=597(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-1871/417, 3-4=-3437/662, 4-6=-2616/613, 6-7=-2523/737, 7-9=-1103/487, 9-10=-1103/486, 10-12=0/1014, 12-14=-566/260
BOT CHORD	2-25=-163/531, 3-24=-308/2540, 23-24=-463/3023, 22-23=-463/3023, 6-22=-262/227, 20-21=-68/268, 18-20=-116/1707, 17-18=-821/280, 15-17=-167/398, 14-15=-167/398
WEBS	4-23=0/433, 4-22=-946/233, 20-22=-50/1491, 7-22=-338/1199, 7-20=-39/409, 7-18=-901/99, 9-18=-807/354, 10-18=-392/2629, 10-17=-2678/505, 12-17=-1241/326, 12-15=0/675

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 5-2-14, Interior(1) 5-2-14 to 20-4-0, Exterior(2R) 20-4-0 to 28-9-13, Interior(1) 28-9-13 to 43-8-0, Exterior(2R) 43-8-0 to 52-1-13, Interior(1) 52-1-13 to 64-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - WARNING:** This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
 - 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 30.0psf 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) 17 except (jt=lb) 2=110, 14=142.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 4,2025

Job	Truss	Truss Type	Qty	Ply	Lot 44 Duncan's Creek
J0625-2855	A08	PIGGYBACK BASE	1	1	173927457
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 10:48:54 2025 Page 1
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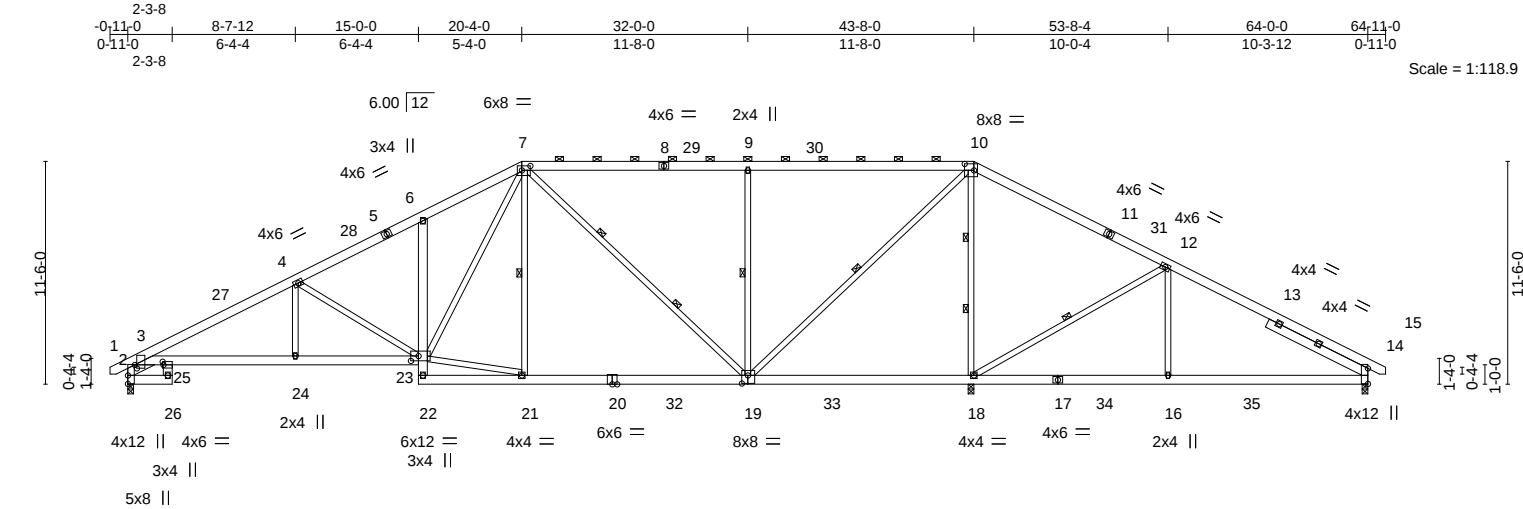


Plate Offsets (X,Y)--	[3:0-2-2,0-1-4], [7:0-5-4,0-2-12], [10:0-5-12,0-4-0], [19:0-3-12,0-5-0], [23:0-4-12,0-3-0], [25:0-0-8,0-2-0]
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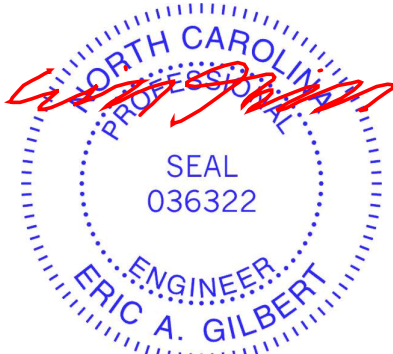
LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.64	Vert(LL) -0.27	19-21	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.81	Vert(CT) -0.43	19-21	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.97	Horz(CT) 0.16	14	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-S	Wind(LL) 0.11	24-25	>999	240	Weight: 516 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-8-6 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-10.
BOT CHORD 2x6 SP No.1 *Except* 17-19: 2x6 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 7-21,9-19,10-18: 2x4 SP No.1	WEBS 1 Row at midpt 7-21, 9-19, 10-19, 12-18
SLIDER Left 2x6 SP No.1 1-5-12, Right 2x6 SP No.1 5-10-2	2 Rows at 1/3 pts 7-19, 10-18

REACTIONS. (size) 2=0-3-8, 18=0-3-8, 14=0-3-8
Max Horz 2=148(LC 9)
Max Uplift 2=108(LC 12), 18=7(LC 9), 14=148(LC 13)
Max Grav 2=1816(LC 27), 18=3848(LC 2), 14=636(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1871/414, 3-4=-3438/655, 4-6=-2617/600, 6-7=-2524/724, 7-9=-1105/463, 9-10=-1105/463, 10-12=0/1007, 12-14=-563/251
BOT CHORD 2-26=-173/528, 3-25=-324/2541, 24-25=-497/3024, 23-24=-497/3024, 6-23=-262/227, 21-22=-73/268, 19-21=-140/1708, 18-19=-820/275, 16-18=-168/395, 14-16=-168/395
WEBS 4-24=0/433, 4-23=-945/236, 21-23=-70/1491, 7-23=-345/1198, 7-21=-38/409, 7-19=-899/103, 9-19=-807/354, 10-19=-398/2628, 10-18=-2677/512, 12-18=-1239/326, 12-16=0/672

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 5-2-14, Interior(1) 5-2-14 to 20-4-0, Exterior(2R) 20-4-0 to 28-9-13, Interior(1) 28-9-13 to 43-8-0, Exterior(2R) 43-8-0 to 52-1-13, Interior(1) 52-1-13 to 64-9-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
 - 4) Provide adequate drainage to prevent water ponding.
 - 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 30.0psf 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18 except (jt=lb) 2=108, 14=148.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 4,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

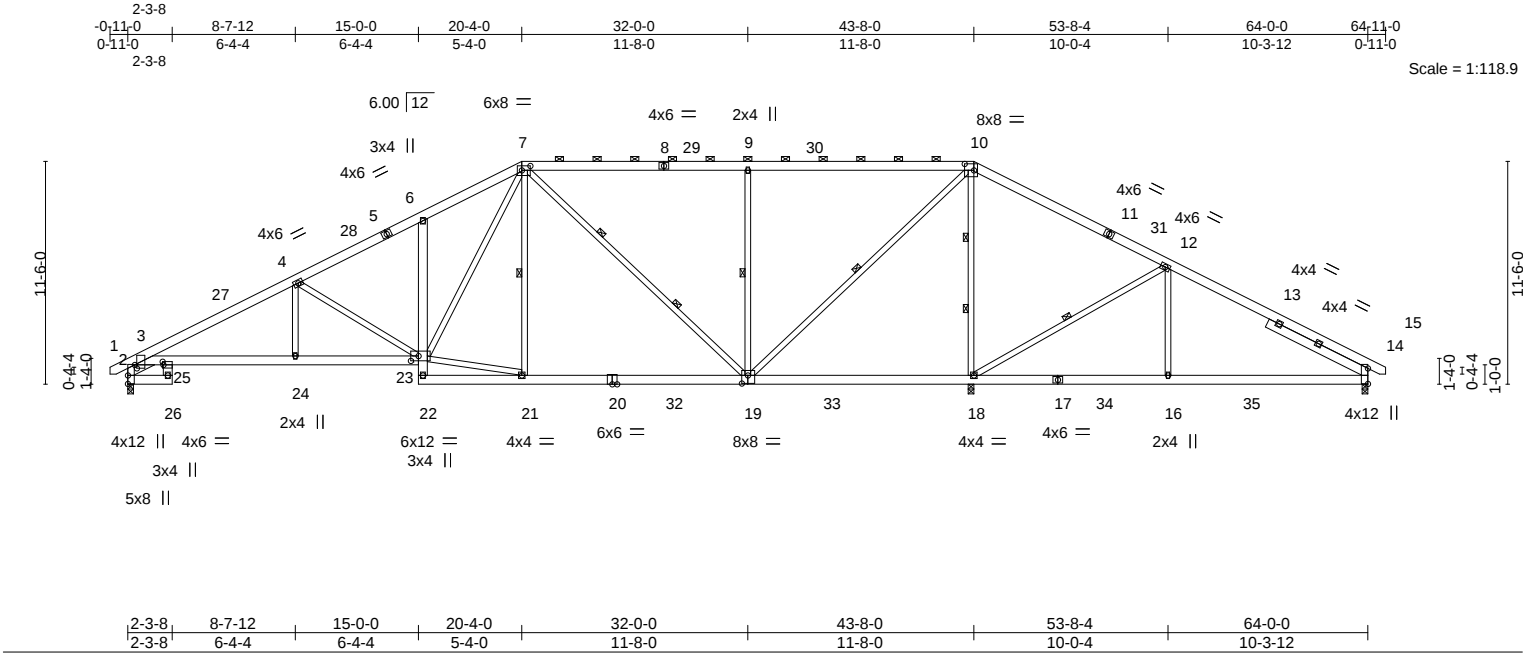
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 44 Duncan's Creek
J0625-2855	A09	PIGGYBACK BASE	1	1	173927458

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 10:48:55 2025 Page 1
ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f



LOADING (psf)		SPACING-		CSL		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.27 19-21 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.43 19-21 >999 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.16 14 n/a n/a				
BCDL	10.0	Code IRC2021/TPI2014		Matrix-S		Wind(LL)	0.11 24-25 >999 240				
								Weight: 516 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 3-8-5 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-10.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.2 *Except*	WEBS	1 Row at midpt 7-21, 9-19, 10-19, 12-18
SLIDER	Left 2x6 SP No.1 1-5-12, Right 2x6 SP No.1 5-10-2		2 Rows at 1/3 pts 7-19, 10-18

REACTIONS. (size) 2=0-3-8, 18=0-3-8 (req. 0-4-8), 14=0-3-8
Max Horz 2=148(LC 9)
Max Uplift 2=109(LC 12), 18=-6(LC 9), 14=-149(LC 13)
Max Grav 2=1821(LC 27), 18=3835(LC 2), 14=642(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1876/415, 3-4=-3448/658, 4-6=-2627/603, 6-7=-2534/726, 7-9=-1118/467, 9-10=-1118/467, 10-12=0/993, 12-14=-570/252
BOT CHORD 2-26=-173/529, 3-25=-326/2549, 24-25=-499/3033, 23-24=-499/3033, 6-23=-262/227, 21-22=-73/269, 19-21=-142/1716, 18-19=-806/270, 16-18=-155/401, 14-16=-155/401
WEBS 4-24=0/433, 4-23=-945/236, 21-23=-72/1498, 7-23=-346/1200, 7-21=-40/407, 7-19=-893/101, 9-19=-807/354, 10-19=-397/2624, 10-18=-2668/508, 12-18=-1239/325, 12-16=0/673

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 5-2-14, Interior(1) 5-2-14 to 20-4-0, Exterior(2R) 20-4-0 to 28-9-13, Interior(1) 28-9-13 to 43-8-0, Exterior(2R) 43-8-0 to 52-1-13, Interior(1) 52-1-13 to 64-9-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - WARNING:** This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
 - 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 30.0psf 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.
 - WARNING:** Required bearing size at joint(s) 18 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18 except (jt=lb) 2=109, 14=149.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 4,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacompnents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 44 Duncan's Creek
J0625-2855	A10	PIGGYBACK BASE	1	1	173927459
Job Reference (optional)					

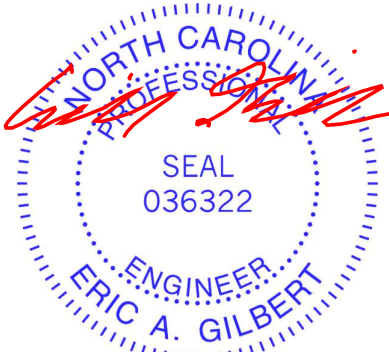
Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 10:48:56 2025 Page 2
ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWwCDoi7J4zJC?f

- NOTES-**
- 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 30.0psf 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) 19 except (jt=lb) 2=138, 14=239.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
 - 13) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-7=-79, 7-10=-79, 10-15=-119(F=-40), 2-28=-26, 25-27=-26, 14-24=-26



June 4,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

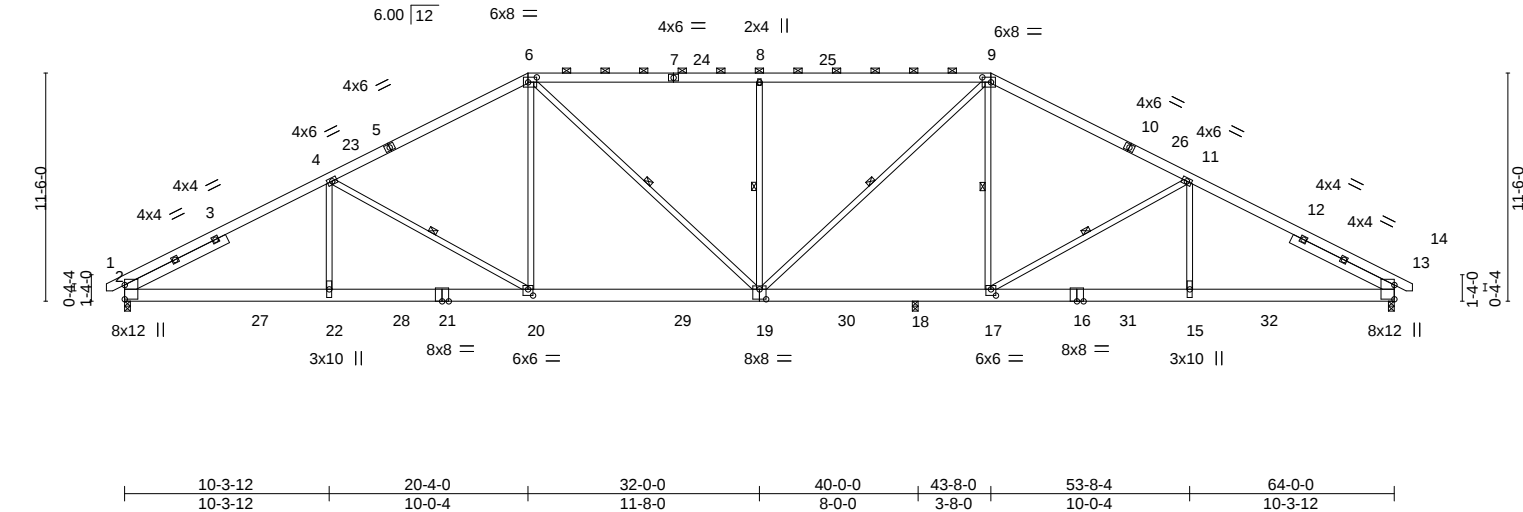
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 44 Duncan's Creek
J0625-2855	A11	PIGGYBACK BASE	4	1	173927460
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 10:48:57 2025 Page 1
ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hg3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f
-0-11-0 10-3-12 20-4-0 32-0-0 43-8-0 53-8-4 64-0-0 64-11-0
0-11-0 10-3-12 10-0-4 11-8-0 11-8-0 10-0-4 10-3-12 0-11-0

Scale = 1:116.1



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.89	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.65	Vert(LL) -0.33 19-20 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.71	Vert(CT) -0.54 19-20 >892 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.11 13 n/a n/a		
	Code IRC2021/TPI2014		Wind(LL) 0.13 19-20 >999 240	Weight: 532 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except
BOT CHORD 2x8 SP 2400F 2.0E	2-0-0 oc purlins (3-11-6 max.): 6-9.
WEBS 2x4 SP No.2	Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER Left 2x6 SP No.1 5-9-6, Right 2x6 SP No.1 5-9-6	BOT CHORD 1 Row at midpt
	WEBS 4-20, 6-19, 8-19, 9-19, 9-17, 11-17

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 18=0-3-8
Max Horz 2=146(LC 9)
Max Uplift 2=116(LC 12), 13=-125(LC 13)
Max Grav 2=2581(LC 2), 13=2183(LC 2), 18=1623(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-4321/753, 4-6=-3469/729, 6-8=-2889/744, 8-9=-2889/744, 9-11=-2455/620,
11-13=-3640/676
BOT CHORD 2-22=-557/3657, 20-22=-557/3657, 19-20=-332/3023, 18-19=-219/2098, 17-18=-219/2098,
15-17=-464/3059, 13-15=-464/3059
WEBS 4-22=0/553, 4-20=-823/260, 6-20=-24/1120, 6-19=-300/223, 8-19=-788/343,
9-19=-175/1223, 9-17=-422/173, 11-17=-1156/300, 11-15=0/810

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 5-2-14, Interior(1) 5-2-14 to 20-4-0, Exterior(2R) 20-4-0 to 28-9-13, Interior(1) 28-9-13 to 43-8-0, Exterior(2R) 43-8-0 to 52-1-13, Interior(1) 52-1-13 to 64-9-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - WARNING:** This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
 - 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 30.0psf 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) 2=116, 13=125.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 4,2025

Job	Truss	Truss Type	Qty	Ply	Lot 44 Duncan's Creek
J0625-2855	A12	PIGGYBACK BASE	2	1	173927461
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

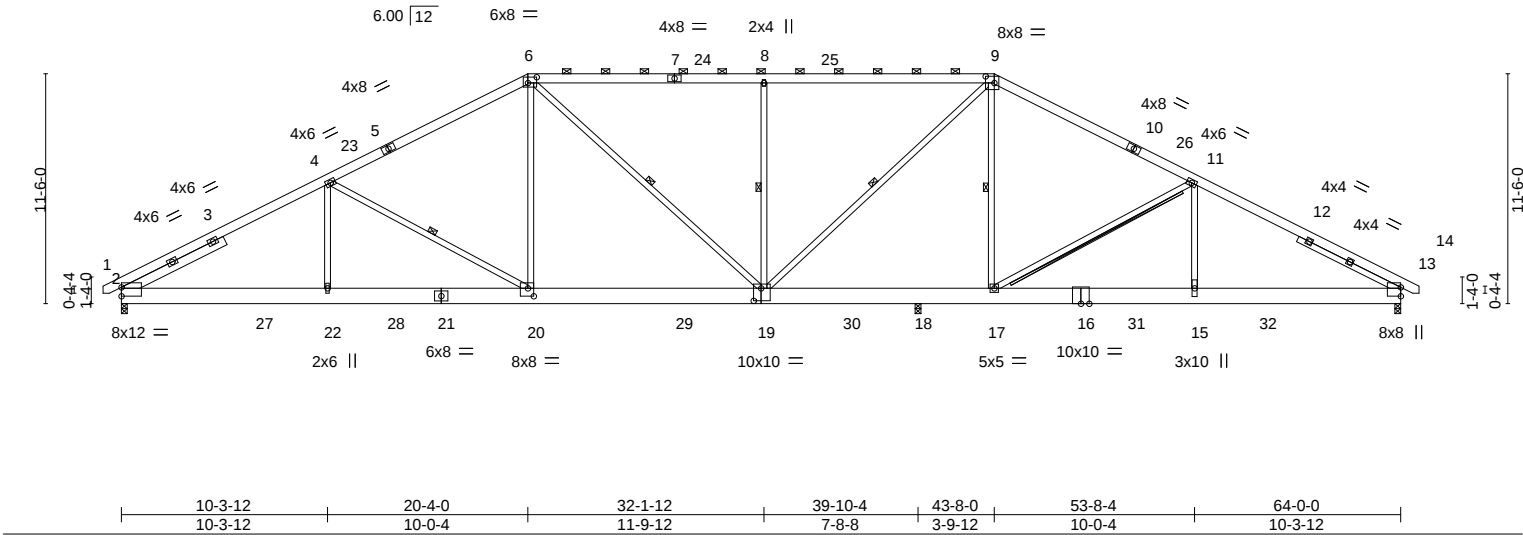
8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 10:48:57 2025 Page 1

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0-11-0 10-3-12 20-4-0 32-1-12 43-8-0 53-8-4 64-0-0 64-11-0

0-11-0 10-3-12 10-0-4 11-9-12 11-6-4 10-0-4 10-3-12 0-11-0

Scale = 1:115.3



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.30 19-20 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.50 19-20 >958 240				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.10 13 n/a n/a				
BCDL	10.0	Code IRC2021/TPI2014		Matrix-S		Wind(LL)	0.14 19-20 >999 240				
								Weight: 580 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x6 SP 2400F 2.0E *Except* 6-7,7-9: 2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 3-11-13 oc purlins, except 2-0-0 oc purlins (3-3-7 max.): 6-9.
BOT CHORD	2x10 SP 2400F 2.0E	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-9-5 oc bracing: 18-19 6-8-6 oc bracing: 17-18.
WEBS	2x4 SP No.2	WEBS	1 Row at midpt 4-20, 6-19, 9-19, 8-19, 9-17 T-Brace: 2x6 SPF No.2 - 11-17
SLIDER	Left 2x6 SP No.1 5-8-8, Right 2x4 SP No.2 5-8-8		Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 18=0-3-8
Max Horz 2=188(LC 9)
Max Uplift 2=-156(LC 12), 13=-222(LC 13), 18=-19(LC 8)
Max Grav 2=3150(LC 2), 13=2947(LC 2), 18=2910(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-5252/932, 4-6=-4148/895, 6-8=-3157/873, 8-9=-3168/879, 9-11=-2691/712, 11-13=-4709/927
BOT CHORD 2-22=-680/4451, 20-22=-680/4451, 19-20=-382/3605, 18-19=-213/2190, 17-18=-213/2190, 15-17=-668/3943, 13-15=-668/3943
WEBS 4-22=0/674, 4-20=-1091/345, 6-20=-51/1540, 6-19=-716/83, 9-19=-210/1506, 11-17=-2089/544, 11-15=0/1097, 8-19=-1017/446, 9-17=-770/233

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 5-2-14, Interior(1) 5-2-14 to 20-4-0, Exterior(2R) 20-4-0 to 28-9-13, Interior(1) 28-9-13 to 43-8-0, Exterior(2R) 43-8-0 to 52-1-13, Interior(1) 52-1-13 to 64-9-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - WARNING:** This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
 - 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 30.0psf 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.



June 4,2025

Job	Truss	Truss Type	Qty	Ply	Lot 44 Duncan's Creek
J0625-2855	A12	PIGGYBACK BASE	2	1	173927461
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 10:48:57 2025 Page 2

ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWwCDoi7J4zJC?f

- NOTES-**
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18 except (jt=lb) 2=156, 13=222.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-6=-78, 6-9=-78, 9-14=-118, 2-13=-26



June 4,2025

Job	Truss	Truss Type	Qty	Ply	Lot 44 Duncan's Creek
J0625-2855	A13GE	GABLE	1	1	173927462
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 10:48:59 2025 Page 1
ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcD0i7J4zJC?f
0-11-0 20-4-0 43-8-0 64-0-0 64-11-0
0-11-0 20-4-0 23-4-0 20-4-0 0-11-0

Scale = 1:118.9

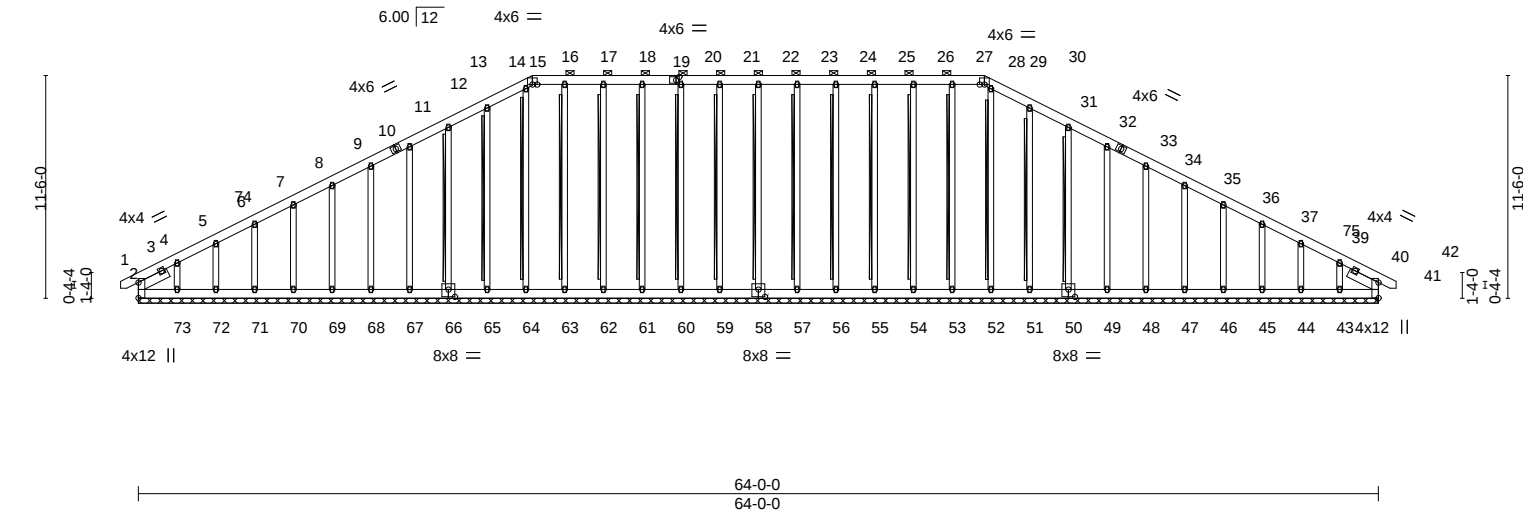


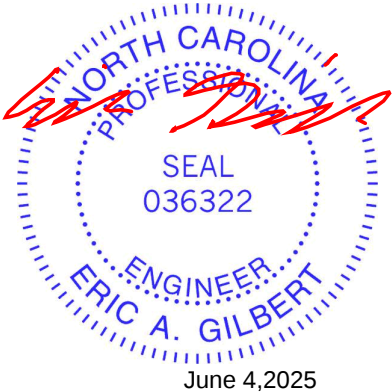
Plate Offsets (X,Y)-- [19:0-2-0,0-2-0], [50:0-4-0,0-4-8], [58:0-4-0,0-4-8], [66:0-4-0,0-4-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	-0.00 41 n/r 120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00 41 n/r 120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01 41 n/a n/a		
BCDL	10.0	Code IRC2021/TPI2014		Matrix-S				Weight: 674 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 15-28.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.2	WEBS	T-Brace: 2x4 SPF No.2 - 12-66, 13-65, 14-64, 16-63, 17-62, 18-61, 20-60, 21-59, 22-58, 23-57, 24-56, 25-55, 26-54, 27-53, 29-52, 30-51, 31-50
SLIDER	Left 2x6 SP No.1 1-9-3, Right 2x6 SP No.1 1-9-3		Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 64-0-0.
(lb) - Max Horz 2=-148(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 2, 72, 71, 70, 69, 68, 67, 66, 65, 63, 62, 61, 60, 59, 58, 57, 56, 55, 54, 53, 51, 50, 49, 48, 47, 46, 45, 44 except 73=-128(LC 12), 43=-102(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 73, 72, 71, 70, 69, 68, 67, 66, 65, 64, 63, 62, 61, 60, 59, 58, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 47, 46, 45, 44, 41, 43

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-303/110, 11-12=-104/269, 12-13=-126/330, 13-14=-144/384, 14-15=-139/359, 15-16=-134/375, 16-17=-134/375, 17-18=-134/375, 18-20=-134/375, 20-21=-134/375, 21-22=-134/375, 22-23=-134/375, 23-24=-134/375, 24-25=-134/375, 25-26=-134/375, 26-27=-134/375, 27-28=-134/375, 28-29=-139/359, 29-30=-144/384, 30-31=-126/330, 31-32=-104/269, 39-41=-271/71
WEBS 4-73=-127/273, 39-43=-115/262

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) 0-9-2 to 5-2-14, Exterior(2N) 5-2-14 to 20-4-0, Corner(3R) 20-4-0 to 26-4-0, Exterior(2N) 26-4-0 to 43-8-0, Corner(3R) 43-8-0 to 49-8-0, Exterior(2N) 49-8-0 to 64-9-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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.
 - 4) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or

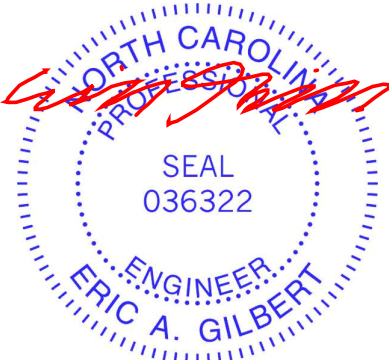


Job	Truss	Truss Type	Qty	Ply	Lot 44 Duncan's Creek
J0625-2855	A13GE	GABLE	1	1	173927462
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

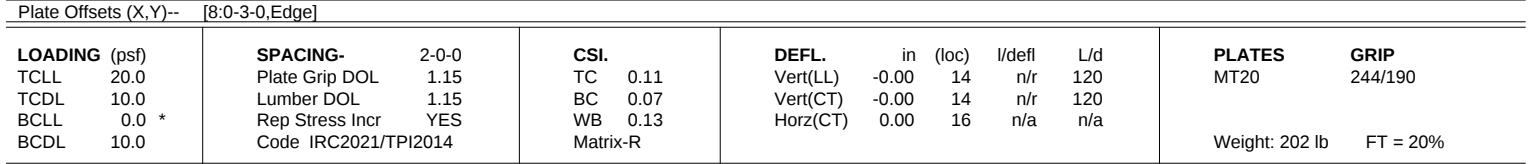
8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 10:48:59 2025 Page 2
ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWwCDoi7J4zJC?f

- NOTES-**
- 5) Provide adequate drainage to prevent water ponding.
 - 6) All plates are 2x4 MT20 unless otherwise indicated.
 - 7) Gable requires continuous bottom chord bearing.
 - 8) Gable studs spaced at 2-0-0 oc.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) * This truss has been designed for a live load of 30.0psf 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.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 72, 71, 70, 69, 68, 67, 66, 65, 63, 62, 61, 60, 59, 58, 57, 56, 55, 54, 53, 51, 50, 49, 48, 47, 46, 45, 44 except (jt=lb) 73=128, 43=102.
 - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 13) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



June 4,2025

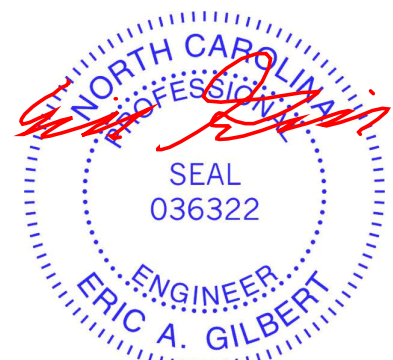
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 -0-11-0 10-5-0 20-10-0 21-9-0
 0-11-0 10-5-0 10-10-0 0-11-0



REACTIONS. All bearings 20-2-0.
(lb) - Max Horz 28=-339(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 26, 18 except 28=-255(LC 10),
16=-198(LC 11), 24=-133(LC 12), 25=-122(LC 12), 27=-329(LC 12), 20=-134(LC
13), 19=-122(LC 13), 17=-314(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 23, 24, 25, 26, 22, 20, 19, 18
except 28=357(LC 9), 16=303(LC 8), 27=338(LC 10), 17=300(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=271/238, 6-7=186/361, 7-8=140/257, 8-9=140/257, 9-10=186/362

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-9 to 3-5-4, Exterior(2N) 3-5-4 to 10-5-0, Corner(3R) 10-5-0 to 14-9-13, Exterior(2N) 14-9-13 to 21-7-9 zone; 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) 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.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 6) Gable studs spaced at 2-0-0 oc.
- 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 30.0psf 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26, 18 except (jt=lb) 28=255, 16=198, 24=133, 25=122, 27=329, 20=134, 19=122, 17=314.
- 10) Non Standard bearing condition. Review required.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



June 4, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required to prevent collapse. For additional design guidance, see the following links regarding the design of trusses and their components: fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

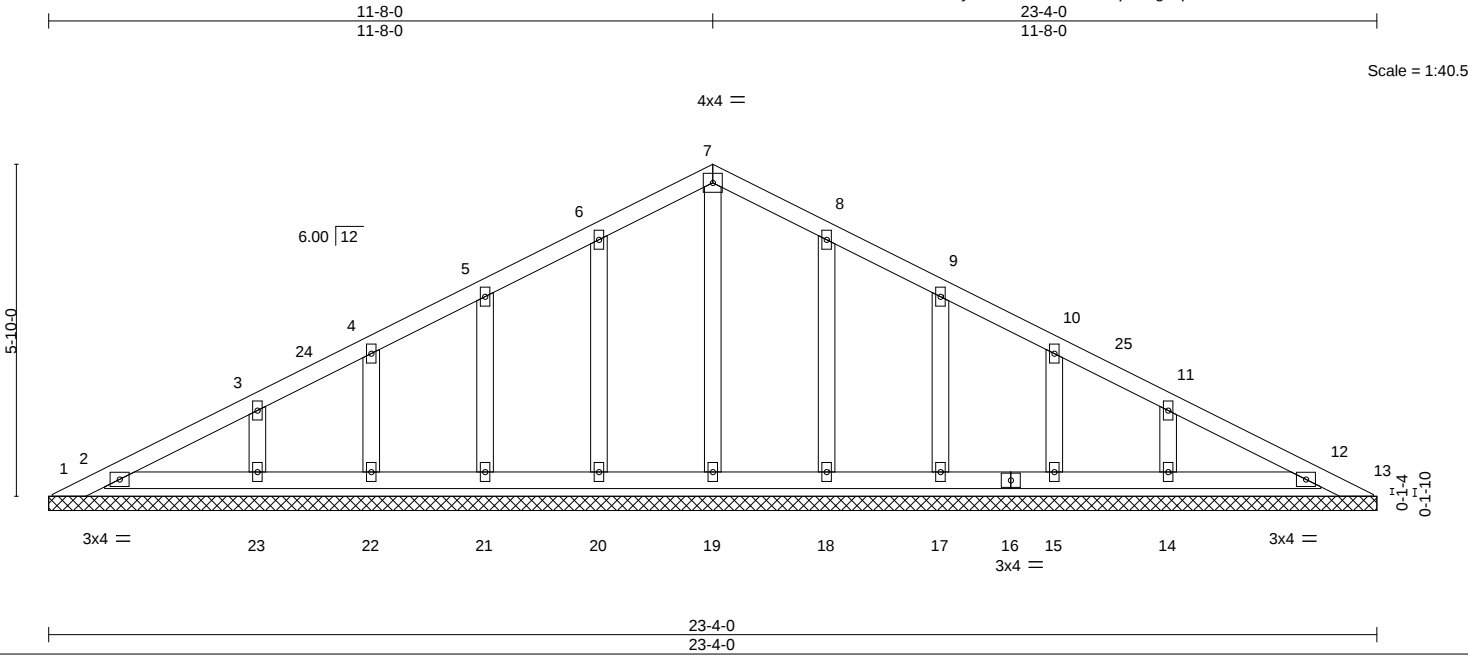
Job	Truss	Truss Type	Qty	Ply	Lot 44 Duncan's Creek
J0625-2855	PB1	GABLE	2	1	173927465

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Job Reference (optional)



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	12	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						Weight: 109 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 23-4-0.
(lb) - Max Horz 1=114(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 2, 20, 21, 22, 23, 18, 17, 15, 14, 12
Max Grav All reactions 250 lb or less at joint(s) 1, 13, 2, 19, 20, 21, 22, 23, 18, 17, 15, 14, 12

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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-4-5 to 4-9-1, Exterior(2N) 4-9-1 to 11-8-0, Corner(3R) 11-8-0 to 16-0-13, Exterior(2N) 16-0-13 to 22-11-11 zone;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.
 - 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 30.0psf 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, 13, 2, 20, 21, 22, 23, 18, 17, 15, 14, 12.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



June 4,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacompnents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 44 Duncan's Creek
J0625-2855	VB1	Valley	1	1	173927467

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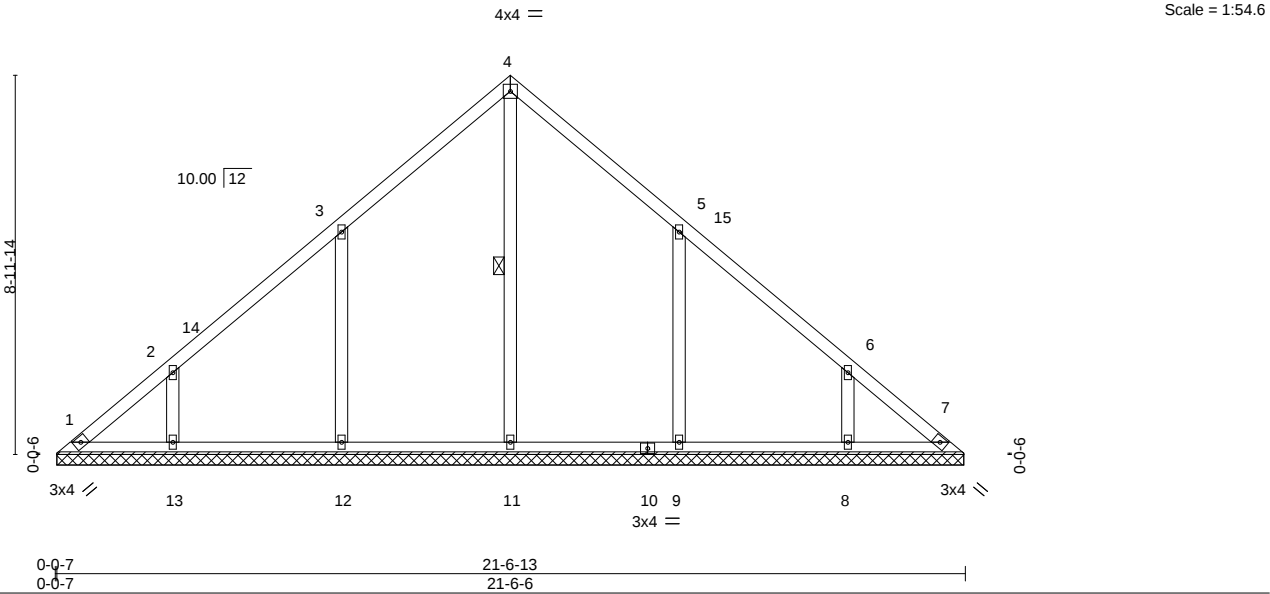
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21-6-13

10-9-7

10-9-7

10-9-7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						Weight: 105 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	WEBS 1 Row at midpt 4-11

REACTIONS. All bearings 21-5-15.

(lb) - Max Horz 1=207(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 12=-140(LC 12), 13=-108(LC 12), 9=-140(LC 13), 8=-108(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=437(LC 22), 12=504(LC 19), 13=354(LC 19), 9=504(LC 20), 8=354(LC 20)

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

WEBS 3-12=-302/253, 5-9=-302/252

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 10-9-7, Exterior(2R) 10-9-7 to 15-2-3, Interior(1) 15-2-3 to 21-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x4 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 30.0psf 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, 7 except (jt=lb) 12=140, 13=108, 9=140, 8=108.



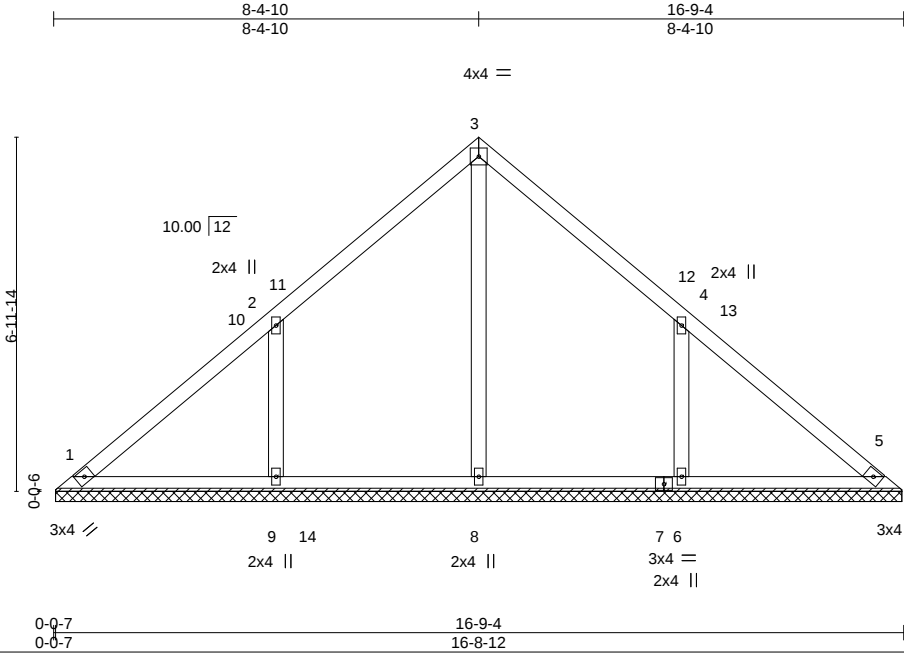
June 4,2025

Job	Truss	Truss Type	Qty	Ply	Lot 44 Duncan's Creek
J0625-2855	VB3	Valley	1	1	173927469

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8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 10:49:04 2025 Page 1

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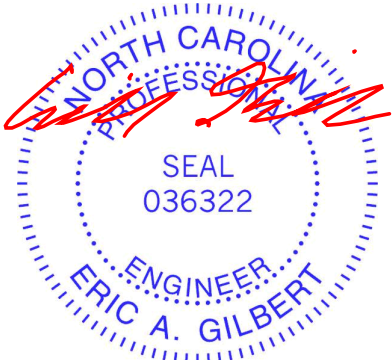
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						Weight: 74 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 16-8-5.
(lb) - Max Horz 1=-159(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-153(LC 12), 6=-153(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=406(LC 22), 9=527(LC 19), 6=535(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-322/273, 4-6=-322/273

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 8-4-10, Exterior(2R) 8-4-10 to 12-9-7, Interior(1) 12-9-7 to 16-4-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 30.0psf 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=153, 6=153.



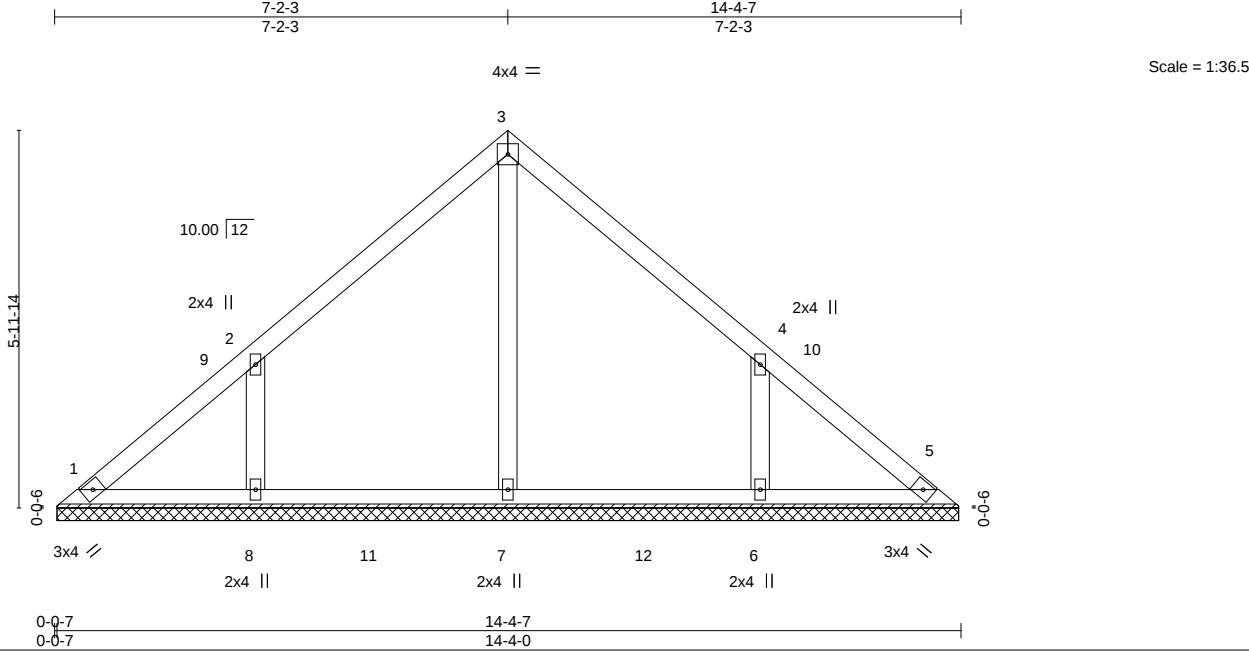
June 4,2025

Job	Truss	Truss Type	Qty	Ply	Lot 44 Duncan's Creek
J0625-2855	VB4	Valley	1	1	173927470

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8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 10:49:04 2025 Page 1

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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						Weight: 62 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 14-3-8.

(lb) - Max Horz 1=-135(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-132(LC 12), 6=-132(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=400(LC 19), 8=426(LC 19), 6=426(LC 20)

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

WEBS 2-8=-278/277, 4-6=-278/277

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 7-2-3, Exterior(2R) 7-2-3 to 11-7-0, Interior(1) 11-7-0 to 13-11-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 30.0psf 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=132, 6=132.



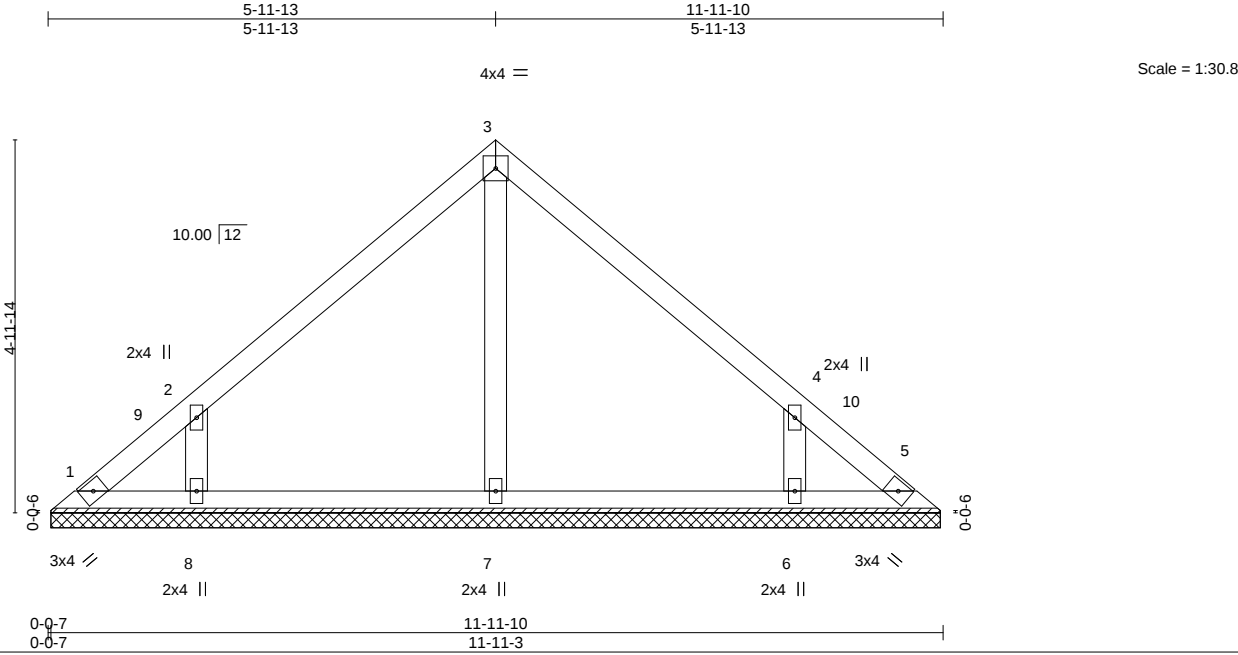
June 4,2025

Job	Truss	Truss Type	Qty	Ply	Lot 44 Duncan's Creek
J0625-2855	VB5	Valley	1	1	173927471
Job Reference (optional)					

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8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 10:49:05 2025 Page 1

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LOADING (psf)	SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13		Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09		Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06		Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S							Weight: 49 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.2		

REACTIONS. All bearings 11-10-12.

(lb) - Max Horz 1=-112(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-123(LC 12), 6=-123(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=325(LC 19), 6=324(LC 20)

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

WEBS 2-8=-266/308, 4-6=-266/308

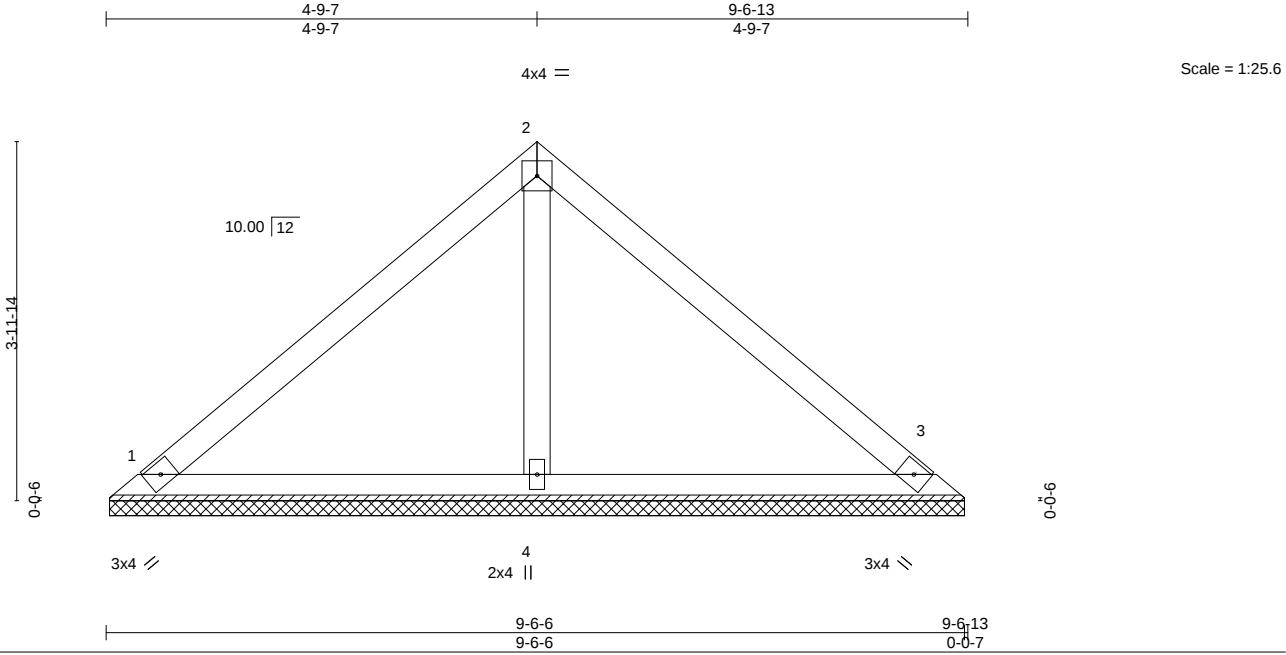
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 5-11-13, Exterior(2R) 5-11-13 to 10-4-10, Interior(1) 10-4-10 to 11-6-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 30.0psf 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=123, 6=123.



June 4,2025

Job	Truss	Truss Type	Qty	Ply	Lot 44 Duncan's Creek
J0625-2855	VB6	Valley	1	1	173927472

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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						Weight: 36 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. (size) 1=9-5-15, 3=9-5-15, 4=9-5-15
Max Horz 1=-88(LC 8)
Max Uplift 1=-21(LC 13), 3=-29(LC 13)
Max Grav 1=187(LC 1), 3=187(LC 1), 4=327(LC 1)

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

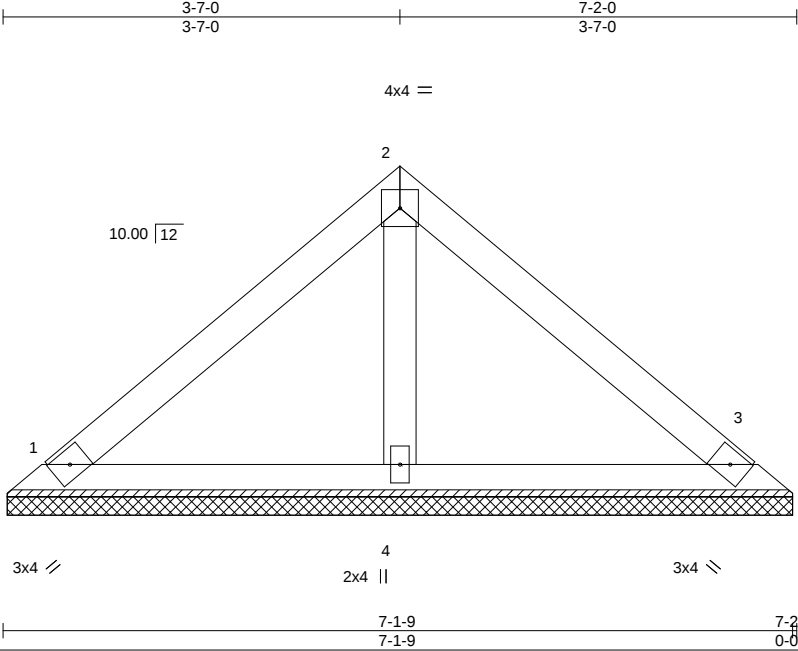
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 30.0psf 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.



June 4,2025

Job	Truss	Truss Type	Qty	Ply	Lot 44 Duncan's Creek
J0625-2855	VB7	Valley	1	1	173927473

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LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.08	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						Weight: 26 lb	FT = 20%
	Code IRC2021/TPI2014								

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. (size) 1=7-1-2, 3=7-1-2, 4=7-1-2
Max Horz 1=64(LC 11)
Max Uplift 1=-22(LC 13), 3=-28(LC 13)
Max Grav 1=147(LC 1), 3=147(LC 1), 4=215(LC 1)

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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 30.0psf 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.



June 4,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacompnents.com)

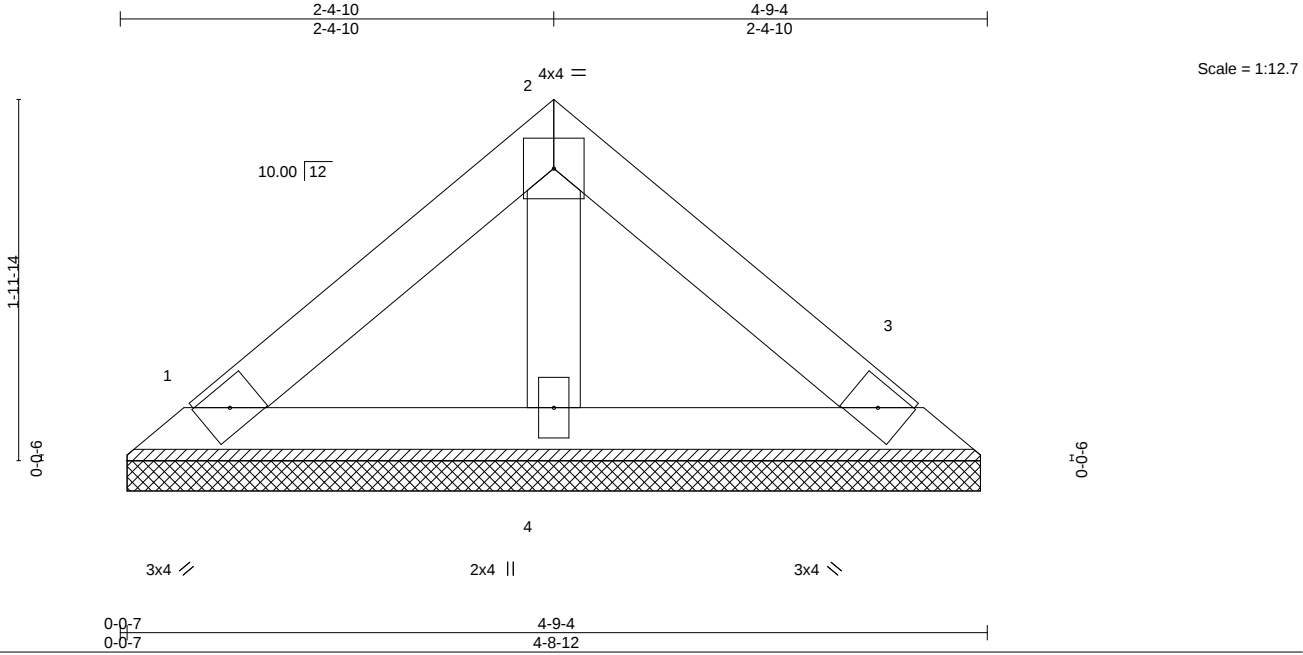
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 44 Duncan's Creek
J0625-2855	VB8	Valley	1	1	173927474
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 10:49:06 2025 Page 1

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LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P						Weight: 17 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-9-4 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. (size) 1=4-8-5, 3=4-8-5, 4=4-8-5
Max Horz 1=-40(LC 8)
Max Uplift 1=-14(LC 13), 3=-17(LC 13)
Max Grav 1=92(LC 1), 3=92(LC 1), 4=134(LC 1)

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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 30.0psf 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.



June 4,2025

Job	Truss	Truss Type	Qty	Ply	Lot 44 Duncan's Creek
J0625-2855	VB9	Valley	1	1	173927475

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8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jun 3 10:49:06 2025 Page 1

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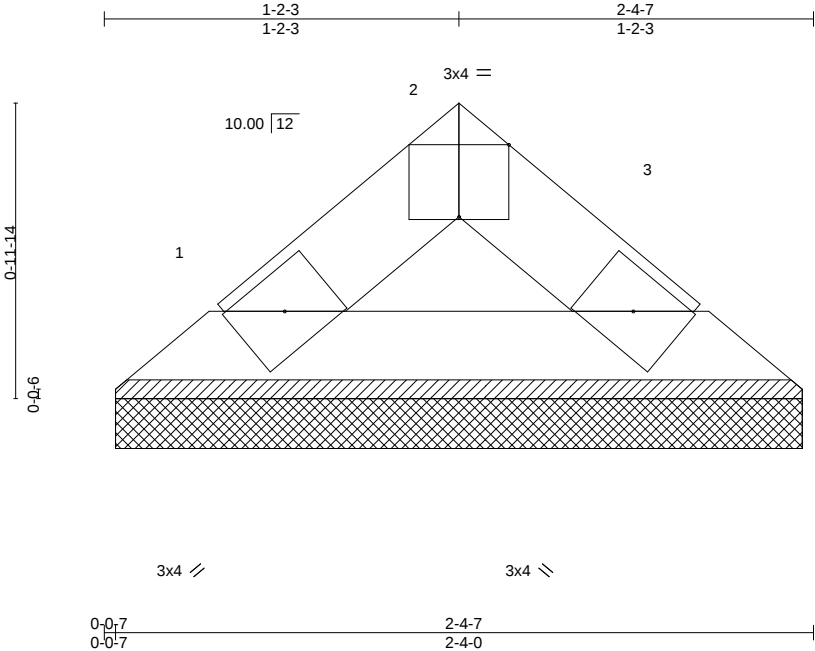


Plate Offsets (X,Y)--		[2:0-2:0,Edge]	
LOADING (psf)		SPACING-	
TCLL	20.0	Plate Grip DOL	1.15
TCDL	10.0	Lumber DOL	1.15
BCLL	0.0 *	Rep Stress Incr	YES
BCDL	10.0	Code	IRC2021/TPI2014
CSI.		DEFL.	
TC		in (loc)	
BC		l/defl	
WB		L/d	
Matrix-P		PLATES	
		GRIP	
		MT20	
		244/190	
		Weight: 7 lb	
		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 2-4-7 oc purlins.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=2-3-8, 3=2-3-8
Max Horz 1=-16(LC 8)
Max Uplift 1=-3(LC 12), 3=-3(LC 13)
Max Grav 1=63(LC 1), 3=63(LC 1)

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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 30.0psf 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.



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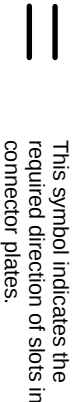
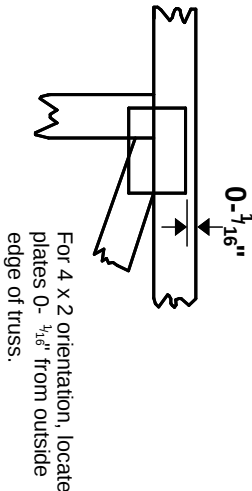
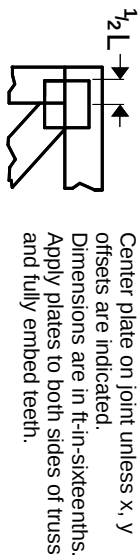
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Symbols

PLATE LOCATION AND ORIENTATION



* Plate location details available in MITek software or upon request.

PLATE SIZE

4 X 4

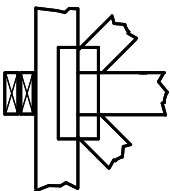
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

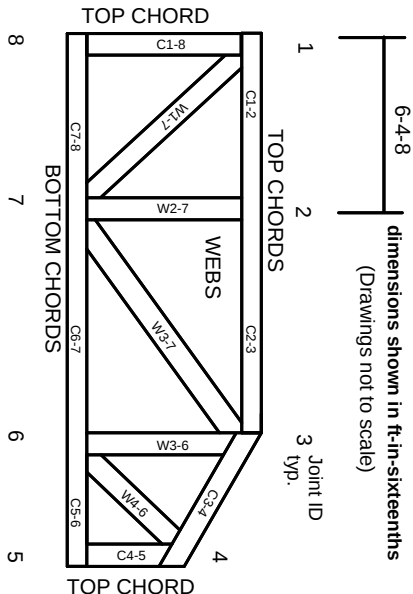


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

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MITek Engineering Reference Sheet: MII-7473 rev. 1/2/2023