

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J1223-6859

Lot 130 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: I62373318 thru I62373341

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844



December 6,2023

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 Lot 130 Duncan's Creek 162373318 J1223-6859 A01GE **GABLE** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Dec 5 11:58:33 2023 Page 1

ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

42-11-0 -0-11-0 0-11-0 21-0-0 21-11-0 21-0-0

Scale = 1:114.7

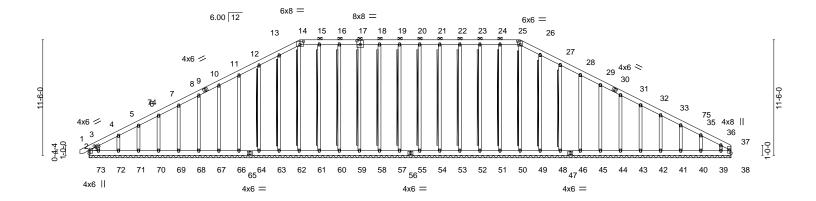


Plate Off	sets (X,Y)	[3:0-2-9,0-2-0], [14:0-4-0,	<u>,0-3-8], [17:0-4</u>	-0,0-4-8], [2	5:0-3-0,0-4-0)]						
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	38	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-S	, ,					Weight: 655 lb	FT = 20%

LUMBER-BRACING-2x6 SP No.1 TOP CHORD TOP CHORD

BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2 **OTHERS** 2x4 SP No.2 **WEBS** SLIDER Left 2x4 SP No.2 0-10-8

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 14-25. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

2x4 SPF No.2 - 25-50, 24-51, 23-52, 22-53 , 21-54, 20-55, 19-57, 18-58, 17-59, 16-60,

15-61, 14-62, 13-63, 12-64, 26-49, 27-48

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 63-11-0.

(lb) -Max Horz 2=147(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 38, 2, 51, 52, 53, 54, 55, 57, 58, 59, 60, 61, 63, 64, 66, 67, 68, 69, 70, 71, 72, 49, 48, 46, 45, 44, 43, 42,

41, 40 except 73=-124(LC 12), 39=-126(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 38, 2, 50, 51, 52, 53, 54, 55, 57, 58, 59, 60, 61, 62, 63, 64, 66, 67, 68, 69, 70, 71, 72, 73, 49, 48, 46, 45,

44, 43, 42, 41, 40, 39

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

2-3=-299/126, 10-11=-84/274, 11-12=-104/332, 12-13=-126/393, 13-14=-144/443, 14-15=-132/425, 15-16=-132/425, 16-17=-132/425, 17-18=-132/425, 18-19=-132/425, 19-20=-132/425, 20-21=-132/425, 21-22=-132/425, 22-23=-132/425, 23-24=-132/425,

24-25=-132/425, 25-26=-145/444, 26-27=-128/396, 27-28=-106/335, 28-29=-86/277,

36-37=-257/75

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) -0-9-2 to 5-2-14, Exterior(2) 5-2-14 to 21-0-0, Corner(3) 21-0-0 to 27-0-0, Exterior(2) 27-0-0 to 42-11-0, Corner(3) 42-11-0 to 48-11-0, Exterior(2) 48-11-0 to 63-9-4 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 bracing.
- 5) Provide adequate drainage to prevent water ponding.

(6) nhih plates are 2x2 MT20 unless otherwise indicated



December 6,2023

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

Job	Truss	Truss Type	Qty	Ply	Lot 130 Duncan's Creek
		0.5.5			I62373318
J1223-6859	A01GE	GABLE	1	1	
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Dec 5 11:58:33 2023 Page 2 ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

NOTES-

- 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) 38, 2, 51, 52, 53, 54, 55, 57, 58, 59, 60, 61, 63, 64, 66, 67, 68, 69, 70, 71, 72, 49, 48, 46, 45, 44, 43, 42, 41, 40 except (jt=lb) 73=124, 39=126.
- 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.

Job Truss Truss Type Qty Lot 130 Duncan's Creek 162373319 J1223-6859 A02 PIGGYBACK BASE 6 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Dec 5 11:58:35 2023 Page 1 ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Structural wood sheathing directly applied or 3-5-4 oc purlins, except

7-22

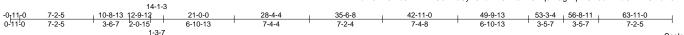
9-21, 12-18, 4-24, 9-19, 10-19, 12-15

2-0-0 oc purlins (4-8-7 max.): 6-10.

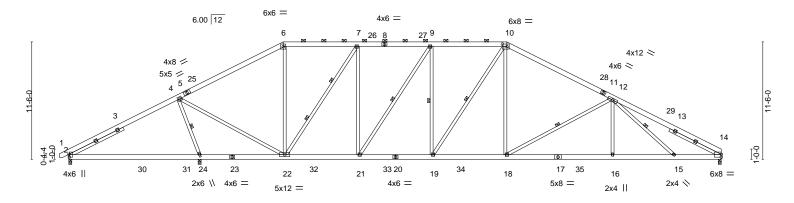
1 Row at midpt

2 Rows at 1/3 pts

Rigid ceiling directly applied or 6-0-0 oc bracing.



Scale = 1:112.9



	7-2-5	12-9-12	21-0-0	28-4-4	35-6-8 ₁	42-11-0	53-3-4	63-11-0	
	7-2-5	5-7-7	8-2-4	7-4-4	7-2-4	7-4-8	10-4-4	10-7-12	
Plate Offsets	s (X,Y) [2:0)-3-6,0-0-8], [10:0-5	-4,0-3-0], [14:0-0	-0,0-3-6]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES GRIP	
TCLL 2	20.0	Plate Grip DOL	1.15	TC 0.70	Vert(LL)	-0.19 18-19	>999 360	MT20 244/190	
TCDL 1	10.0	Lumber DOL	1.15	BC 0.56	Vert(CT)	-0.37 16-18	>999 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.96	Horz(CT)	0.11 14	n/a n/a		
BCDL 1	10.0	Code IRC2015/	TPI2014	Matrix-S	Wind(LL)	0.23 2-24	>674 240	Weight: 513 lb FT = 20%	
					` '				

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x6 SP No.1 TOP CHORD

BOT CHORD 2x6 SP No.1 *Except* 2-23: 2x6 SP 2400F 2.0E

2x4 SP No.2

WEBS SLIDER Left 2x4 SP No.2 5-11-4, Right 2x4 SP No.2 5-7-5

REACTIONS. (size) 2=0-3-8, 14=0-3-8, 24=0-3-8

Max Horz 2=-147(LC 8)

Max Uplift 2=-150(LC 9), 14=-112(LC 13), 24=-173(LC 9) Max Grav 2=603(LC 23), 14=2144(LC 2), 24=2822(LC 2)

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

TOP CHORD 2-4=-521/358, 4-6=-1710/584, 6-7=-1413/579, 7-9=-2294/772, 9-10=-2674/838,

10-12=-3026/827, 12-14=-3850/845

BOT CHORD 2-24=-161/371, 22-24=-759/106, 21-22=-302/2294, 19-21=-369/2673, 18-19=-370/2610, 16-18=-668/3317, 15-16=-668/3317, 14-15=-617/3294

7-22=-1668/351, 4-22=-256/2370, 6-22=-21/387, 7-21=-44/1005, 9-21=-731/128,

WFBS

10-18=-55/782, 12-18=-874/342, 12-16=0/401, 4-24=-2529/673, 9-19=-120/334,

10-19=-159/297

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 5-2-14, Interior(1) 5-2-14 to 21-0-0, Exterior(2) 21-0-0 to 29-5-13, Interior(1) 29-5-13 to 42-11-0, Exterior(2) 42-11-0 to 51-4-13, Interior(1) 51-4-13 to 63-11-0 zone; porch left exposed; 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.
- Provide adequate drainage to prevent water ponding.
- 5) All plates are 4x4 MT20 unless otherwise indicated.
- 6) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=150, 14=112, 24=173,
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 6,2023

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

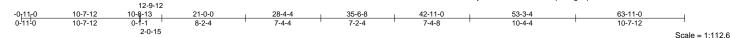
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 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)

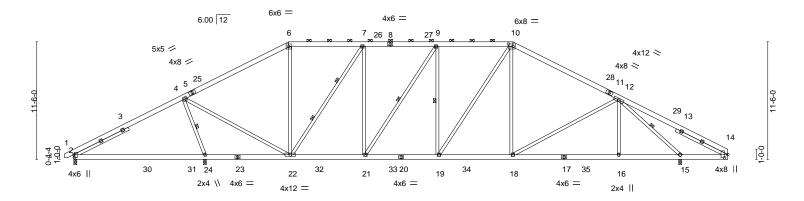




Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Dec 5 11:58:37 2023 Page 1 ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





	1	10-7-12 12-9-12	21-0-0	28-4-4	35-6-8	42-11-0	53-3-4	, 59-5-0 63-11-0	
	1	10-7-12 2-2-0	8-2-4	7-4-4	7-2-4	7-4-8	10-4-4	6-1-12 4-6-0	
Plate Offse	ets (X,Y)	[2:0-3-6,0-0-8], [10:0-5-4	,0-3-0], [14:0-3	3-14,0-3-13]					
LOADING	(nsf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC 0.56	Vert(LL)	(/	>890 360	MT20 244/190	
TCDL	10.0	Lumber DOL	1.15	BC 0.45	Vert(CT)	-0.30 2-24	>513 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB 1.00	Horz(CT)	0.08 15	n/a n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matrix-S	Wind(LL)	0.23 2-24	>671 240	Weight: 513 lb FT = 20%	

BRACING-LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 *Except*

2-23: 2x6 SP 2400F 2.0E

2x4 SP No.2 WEBS

SLIDER Left 2x4 SP No.2 5-11-4, Right 2x4 SP No.2 5-7-5

TOP CHORD

WEBS

Structural wood sheathing directly applied or 4-6-11 oc purlins,

2-0-0 oc purlins (5-0-4 max.): 6-10.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 22-24,14-15

1 Row at midpt

9-21, 9-19, 4-24, 12-15 2 Rows at 1/3 pts 7-22

REACTIONS. (size) 2=0-3-8, 24=0-3-8, 15=0-3-8

Max Horz 2=-147(LC 8)

Max Uplift 2=-140(LC 9), 24=-195(LC 9), 15=-120(LC 13) Max Grav 2=693(LC 23), 24=2461(LC 2), 15=2382(LC 2)

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

TOP CHORD 2-4=-702/388, 4-6=-1673/556, 6-7=-1380/555, 7-9=-2104/710, 9-10=-2330/739, 10-12=-2482/679, 12-14=-342/554

BOT CHORD 2-24=-167/529, 22-24=-411/116, 21-22=-241/2104, 19-21=-270/2330, 18-19=-233/2105, 16-18=-317/1978, 15-16=-317/1978, 14-15=-347/415

WEBS 4-22=-189/1927, 7-22=-1386/283, 9-21=-454/63, 9-19=-284/202, 6-22=-8/367,

10-18=0/361, 12-18=-97/277, 7-21=0/774, 4-24=-2148/617, 12-16=0/334,

10-19=-145/526, 12-15=-3112/842

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 5-2-14, Interior(1) 5-2-14 to 21-0-0, Exterior(2) 21-0-0 to 29-5-13, Interior(1) 29-5-13 to 42-11-0, Exterior(2) 42-11-0 to 51-4-13, Interior(1) 51-4-13 to 63-11-0 zone; cantilever right exposed; porch left exposed; 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) All plates are 4x4 MT20 unless otherwise indicated.
- 6) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=140, 24=195, 15=120.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 6,2023

🗥 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/TP11 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 Lot 130 Duncan's Creek Ply 162373321 J1223-6859 A04 PIGGYBACK BASE 2 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Dec 5 11:58:39 2023 Page 1 ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Scale = 1:112.6

53-3-4 0-1-12

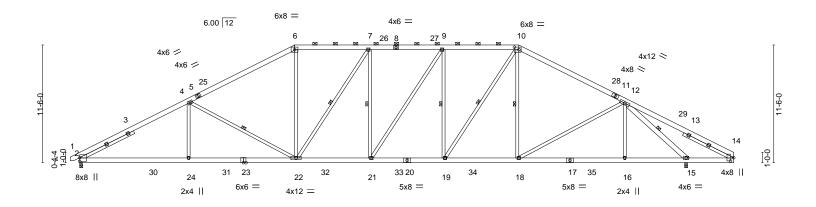
Structural wood sheathing directly applied or 2-2-0 oc purlins, except

2-0-0 oc purlins (3-11-13 max.): 6-10.

1 Row at midpt

Rigid ceiling directly applied or 6-0-0 oc bracing.

63-11-0 10-7-12



		10-7-12	21-0-0	1 28	-4-4	35-6-12	42-11-0		53-3-4	59-3-4 59	η 5 -0 63-11-0
	l l	10-7-12	10-4-4	¹ 7·	4-4	7-2-8	7-4-4		10-4-4	6-0-0 0-1	1 ^{!!} 12
Plate Off	sets (X,Y)	[10:0-5-4,0-3-0], [14:0-3	-14,0-3-13]								
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.26 21-22	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.45 21-22	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.19 15	n/a	n/a		
BCDL	10.0	Code IRC2015/1	TPI2014	Matrix	-S	Wind(LL)	0.14 21	>999	240	Weight: 519 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x6 SP No.1 TOP CHORD **BOT CHORD** 2x6 SP No.1 2x4 SP No.2 *Except* **WEBS**

-0<u>-11-0</u> 0-11-0

12-15: 2x6 SP No.1

SLIDER Left 2x4 SP No.2 5-10-9, Right 2x4 SP No.2 5-5-7

REACTIONS. (size) 2=0-3-8, 15=0-3-8

Max Horz 2=-147(LC 8)

Max Uplift 2=-105(LC 12), 15=-97(LC 13) Max Grav 2=2670(LC 2), 15=2941(LC 2)

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

TOP CHORD 2-4=-4839/996, 4-6=-3853/933, 6-7=-3360/935, 7-9=-3680/966, 9-10=-3553/940,

10-12=-3434/835, 12-14=-344/574

BOT CHORD 2-24=-758/4150, 22-24=-758/4150, 21-22=-506/3680, 19-21=-471/3552, 18-19=-372/2954,

16-18=-421/2595, 15-16=-421/2595, 14-15=-363/417 4-24=0/591, 4-22=-984/323, 9-21=-65/316, 6-22=-155/1209, 7-22=-739/161,

WFBS 7-21=-136/281, 9-19=-728/310, 12-18=-89/537, 12-16=0/343, 12-15=-3971/1003,

10-19=-274/1175, 10-18=-38/260

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 5-2-14, Interior(1) 5-2-14 to 21-0-0, Exterior(2) 21-0-0 to 29-5-13, Interior(1) 29-5-13 to 42-11-0, Exterior(2) 42-11-0 to 51-4-13, Interior(1) 51-4-13 to 63-11-0 zone; cantilever right exposed ;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.
- Provide adequate drainage to prevent water ponding.
- 5) All plates are 4x4 MT20 unless otherwise indicated.
- 6) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15 except (jt=lb)
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



4-22, 7-22, 7-21, 9-19, 12-15, 10-19, 10-18

December 6,2023

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/TP11 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 Lot 130 Duncan's Creek 162373322 J1223-6859 A05 PIGGYBACK BASE Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Dec 5 11:58:40 2023 Page 1 ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

35-6-12

7-2-8

7-4-4

42-11-0

7-4-4

53-3-4

10-4-4

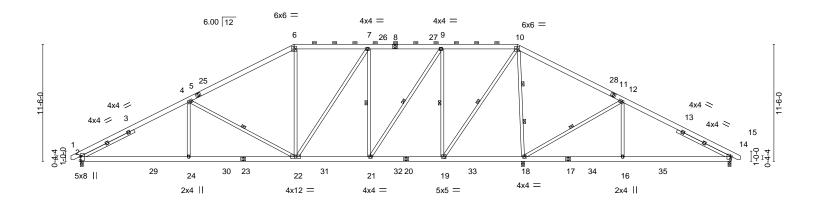
Scale = 1:113.2

64₁10-0

0-11-0

63-11-0

10-7-12



10-7-12	21-0-0	28-4-4	35-6-12	42-11-0	43-7-8	53-3-4	63-11-	<u> </u>
10-7-12	10-4-4	7-4-4	7-2-8	7-4-4	0-8-8	9-7-12	10-7-1	2 '
Y) [14:0-3-6,0-0-12]							
SPACING	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
Plate Grip	DOL 1.15	TC 0.50	Vert(LL)	-0.14 21-22	>999	360	MT20	244/190
Lumber D	OL 1.15	BC 0.53	Vert(CT)	-0.27 22-24	>999	240		
* Rep Stres	s Incr YES	WB 0.99	Horz(CT)	0.07 14	n/a	n/a		
Code IRC	C2015/TPI2014	Matrix-S	Wind(LL)	0.08 22-24	>999	240	Weight: 502 lb	FT = 20%
	10-7-12 Y) [14:0-3-6,0-0-12] SPACING Plate Grip Lumber D * Rep Stres	10-7-12 10-4-4 Y) [14:0-3-6,0-0-12] SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	10-7-12 10-4-4 7-4-4 Y) [14:0-3-6,0-0-12] SPACING- 2-0-0 CSI. Plate Grip DOL 1.15 TC 0.50 Lumber DOL 1.15 BC 0.53 * Rep Stress Incr YES WB 0.99	10-7-12 10-4-4 7-4-4 7-2-8 Y) [14:0-3-6,0-0-12] SPACING- 2-0-0 CSI. DEFL. Plate Grip DOL 1.15 TC 0.50 Vert(LL) Lumber DOL 1.15 BC 0.53 Vert(CT) * Rep Stress Incr YES WB 0.99 Horz(CT)	10-7-12 10-4-4 7-4-4 7-2-8 7-4-4 Y) [14:0-3-6,0-0-12] SPACING- 2-0-0 CSI. DEFL. in (loc) Plate Grip DOL 1.15 TC 0.50 Vert(LL) -0.14 21-22 Lumber DOL 1.15 BC 0.53 Vert(CT) -0.27 22-24 * Rep Stress Incr YES WB 0.99 Horz(CT) 0.07 14	10-7-12 10-4-4 7-4-4 7-2-8 7-4-4 0-8-8 Y) [14:0-3-6,0-0-12] SPACING- 2-0-0 CSI. DEFL. in (loc) 1/defl Plate Grip DOL 1.15 TC 0.50 Vert(LL) -0.14 21-22 >999 Lumber DOL 1.15 BC 0.53 Vert(CT) -0.27 22-24 >999 * Rep Stress Incr YES WB 0.99 Horz(CT) 0.07 14 n/a	10-7-12 10-4-4 7-4-4 7-2-8 7-4-4 0-8-8 9-7-12 Y) [14:0-3-6,0-0-12] SPACING- 2-0-0 CSI. DEFL. in (loc) 1/defl L/d Plate Grip DOL 1.15 TC 0.50 Vert(LL) -0.14 21-22 >999 360 Lumber DOL 1.15 BC 0.53 Vert(CT) -0.27 22-24 >999 240 * Rep Stress Incr YES WB 0.99 Horz(CT) 0.07 14 n/a n/a	10-7-12 10-4-4 7-4-4 7-2-8 7-4-4 0-8-8 9-7-12 10-7-12 Y) [14:0-3-6,0-0-12] SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl L/d PLATES Plate Grip DOL 1.15 TC 0.50 Vert(LL) -0.14 21-22 >999 360 MT20 Lumber DOL 1.15 BC 0.53 Vert(CT) -0.27 22-24 >999 240 * Rep Stress Incr YES WB 0.99 Horz(CT) 0.07 14 n/a n/a

TOP CHORD

BOT CHORD

WEBS

LUMBER-**BRACING-**

10-4-4

2x6 SP No.1 TOP CHORD **BOT CHORD** 2x6 SP No.1

-0-11-0 0-11-0

10-7-12

WEBS 2x4 SP No.2 Left 2x4 SP No.2 5-10-9, Right 2x4 SP No.2 5-10-9 SLIDER

REACTIONS. (size) 2=0-3-8, 18=0-3-8 (req. 0-4-0), 14=0-3-8

Max Horz 2=145(LC 9)

Max Uplift 2=-127(LC 12), 14=-143(LC 13)

Max Grav 2=1820(LC 25), 18=3402(LC 2), 14=705(LC 24)

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

TOP CHORD 2-4=-3089/736, 4-6=-2044/660, 6-7=-1725/689, 7-9=-1499/637, 9-10=-820/516,

10-12=0/715, 12-14=-754/287

2-24=-548/2633, 22-24=-548/2633, 21-22=-197/1499, 19-21=-97/828, 18-19=-393/185, **BOT CHORD**

16-18=-106/573, 14-16=-106/573

WFBS 4-24=0/605, 4-22=-1098/341, 9-21=-226/1254, 6-22=-21/425, 7-22=-96/493,

7-21=-776/267, 10-19=-418/2151, 9-19=-1425/440, 12-18=-1194/370, 12-16=0/586,

10-18=-2452/517

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 5-2-14, Interior(1) 5-2-14 to 21-0-0, Exterior(2) 21-0-0 to 29-5-13, Interior(1) 29-5-13 to 42-11-0, Exterior(2) 42-11-0 to 51-4-13, Interior(1) 51-4-13 to 64-8-2 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.
- Provide adequate drainage to prevent water ponding.
- 5) All plates are 4x6 MT20 unless otherwise indicated.
- 6) 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.
- 8) WARNING: Required bearing size at joint(s) 18 greater than input bearing size.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=127, 14=143.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord



Structural wood sheathing directly applied or 4-5-1 oc purlins, except

4-22, 9-21, 7-21, 10-19, 9-19, 12-18

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

2-0-0 oc purlins (5-10-7 max.): 6-10.

6-0-0 oc bracing: 18-19.

1 Row at midpt 2 Rows at 1/3 pts

December 6,2023



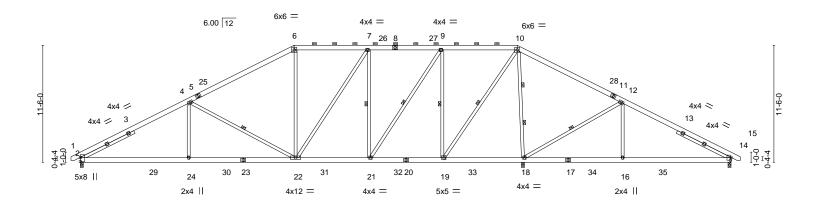


Job Truss Truss Type Qty Lot 130 Duncan's Creek 162373323 J1223-6859 A06 PIGGYBACK BASE 2 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Dec 5 11:58:41 2023 Page 1

Comtech, Inc, Fayetteville, NC - 28314,

ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 10-7-12 14-1-3 53-3-4 56-8-11 35-6-12 42-11-0 49-9-13 63-11-0 3-5-7 3-5-7 6-10-13 7-4-4 7-2-8 7-4-4 6-10-13 3-5-7 3-5-7 7-2-5 0-11-0

Scale = 1:113.2



	L	10-7-12	21-0-0	28-4-4	35-6-12	43-7-8		53-3-4	63-11-0	
	<u>'</u>	10-7-12	10-4-4	7-4-4	7-2-8	8-0-12	<u>'</u>	9-7-12	10-7-12	2 '
Plate Offse	ts (X,Y)	[14:0-3-6,0-0-12]								
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 0.50	Vert(LL)	-0.14 21-22	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC 0.53	Vert(CT)	-0.27 22-24	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.99	Horz(CT)	0.07 14	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matrix-S	Wind(LL)	0.08 22-24	>999	240	Weight: 502 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x6 SP No.1 TOP CHORD **BOT CHORD** 2x6 SP No.1

WEBS 2x4 SP No.2

Left 2x4 SP No.2 5-10-9, Right 2x4 SP No.2 5-10-9 SLIDER

REACTIONS. (size) 2=0-3-8, 14=0-3-8, 18=0-3-8 (req. 0-4-0)

Max Horz 2=145(LC 9)

Max Uplift 2=-127(LC 12), 14=-143(LC 13)

Max Grav 2=1820(LC 25), 14=705(LC 24), 18=3402(LC 2)

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

TOP CHORD 2-4=-3089/736, 4-6=-2044/660, 6-7=-1725/689, 7-9=-1499/637, 9-10=-820/516,

10-12=0/715, 12-14=-754/287

BOT CHORD 2-24=-548/2633, 22-24=-548/2633, 21-22=-197/1499, 19-21=-97/828, 18-19=-393/185, 16-18=-106/573, 14-16=-106/573

WFBS 4-24=0/605, 4-22=-1098/341, 6-22=-21/425, 7-22=-96/493, 7-21=-776/267,

9-19=-1425/440, 9-21=-226/1254, 10-19=-418/2151, 12-18=-1194/370, 12-16=0/586,

10-18=-2452/517

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 5-2-14, Interior(1) 5-2-14 to 21-0-0, Exterior(2) 21-0-0 to 29-5-13, Interior(1) 29-5-13 to 42-11-0, Exterior(2) 42-11-0 to 51-4-13, Interior(1) 51-4-13 to 64-8-2 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.
- Provide adequate drainage to prevent water ponding.
- 5) All plates are 4x6 MT20 unless otherwise indicated.
- 6) 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.
- 8) WARNING: Required bearing size at joint(s) 18 greater than input bearing size.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=127, 14=143.

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



Structural wood sheathing directly applied or 4-5-1 oc purlins, except

4-22, 7-21, 9-19, 9-21, 10-19, 12-18

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

2-0-0 oc purlins (5-10-7 max.): 6-10.

6-0-0 oc bracing: 18-19.

1 Row at midpt 2 Rows at 1/3 pts

December 6,2023



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

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 Job
 Truss
 Truss Type
 Qty
 Ply
 Lot 130 Duncan's Creek

 J1223-6859
 A07
 PIGGYBACK BASE
 7
 1
 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Dec 5 11:58:43 2023 Page 1

Structural wood sheathing directly applied or 4-3-0 oc purlins, except

3-23, 6-23, 6-22, 8-20, 18-26

2-0-0 oc purlins (5-6-7 max.): 5-9.

1 Row at midpt

1 Brace at Jt(s): 26

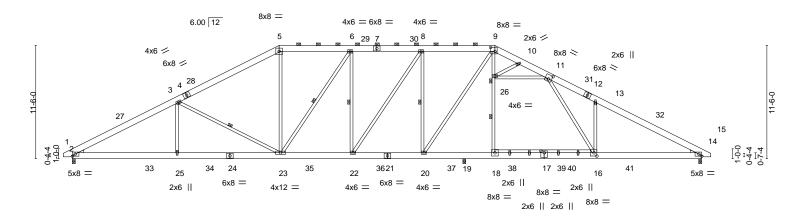
Rigid ceiling directly applied or 9-11-1 oc bracing.

ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-011-0 7-2-5 | 10-7-12 | 14-1-3 | 21-0-0 | 28-4-4 | 35-6-12 | 42-11-0 | 45-3-9 | 49-9-13 | 53-1-8 | 58-7-2 | 63-11-0 64-10-0

-0-11-0 7-2-5 | 3-5-7 3-5-7 6-10-13 | 7-4-4 | 7-2-8 | 7-4-4 | 2-4-9 | 4-6-4 | 3-3-11 | 5-3-14 | 5-3-14 | 0-11-0

-0-1-12 | Scale = 1:117.0



		10-7-12	28-4	-4	35-6-12	39-9-12 ₁ 4	2-11-0 ₁	53-1-8	5პუპ-4	63-11-0	
	١.	10-7-12	17-8	-8	7-2-8	4-3-0	3-1-4	10-2-8	0-1 ["] -12	10-7-12	
Plate Offsets	s (X,Y)	[9:0-5-4,0-5-0], [11:0)-3-12,0-5-0], [16:0	-3-8,0-4-0], [17:0-4-0	,0-2-4]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl L/d		PLATES	GRIP
TCLL 2	20.0	Plate Grip DO	DL 1.15	TC 0.57	Vert(LI	.) -0.25	16	>999 360		MT20	244/190
TCDL 1	0.0	Lumber DOL	1.15	BC 0.66	Vert(C	T) -0.51	16-18	>562 240			
BCLL	0.0 *	Rep Stress Ir	ncr YES	WB 0.86	Horz(C	Ť) 0.09	14	n/a n/a			
BCDL 1	0.0	Code IRC20	15/TPI2014	Matrix-S	Wind(l	L) 0.22	16	>999 240		Weight: 607 lb	FT = 20%
					,						

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

LUMBER-

TOP CHORD 2x8 SP No.1 *Except*

4-5,9-12: 2x8 SP 2400F 2.0E 2x8 SP 2400F 2.0E *Except*

BOT CHORD 2x8 SP 2400F 2.0E 16-18: 2x4 SP No.1

WEBS 2x4 SP No.2

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 14=0-3-8, 19=0-3-8

Max Horz 2=-142(LC 8)

Max Uplift 2=-81(LC 12), 14=-30(LC 13)

Max Grav 2=2165(LC 2), 14=1751(LC 1), 19=1849(LC 2)

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

TOP CHORD 2-3=-3912/804, 3-5=-2860/721, 5-6=-2454/743, 6-8=-2517/727, 8-9=-1956/619,

9-10=-1783/525, 10-11=-2299/720, 11-13=-3154/704, 13-14=-2937/426 BOT CHORD 2-25=-615/3345, 23-25=-615/3345, 22-23=-277/2517, 20-22=-157/1955, 19-20=-87/1722,

18-19=-87/1722, 16-18=-94/1742, 14-16=-256/2520

3-25=0/565, 3-23=-1077/352, 5-23=-73/799, 6-23=-328/129, 6-22=-462/236, 8-20=-1158/404, 8-22=-219/1049, 9-20=-298/644, 18-26=-506/358, 9-26=-298/328,

13-16=-1074/552, 11-26=-307/657, 11-16=-326/1607, 10-26=-837/372

NOTES-

WEBS

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-2 to 5-4-14, Interior(1) 5-4-14 to 21-0-0, Exterior(2) 21-0-0 to 29-5-13, Interior(1) 29-5-13 to 42-11-0, Exterior(2) 42-11-0 to 51-4-13, Interior(1) 51-4-13 to 64-6-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) 200.0lb AC unit load placed on the bottom chord, 46-11-0 from left end, supported at two points, 5-0-0 apart.

- 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 bracing.
- Provide adequate drainage to prevent water ponding.
- 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 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord



December 6,2023

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

and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

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/TP1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org)



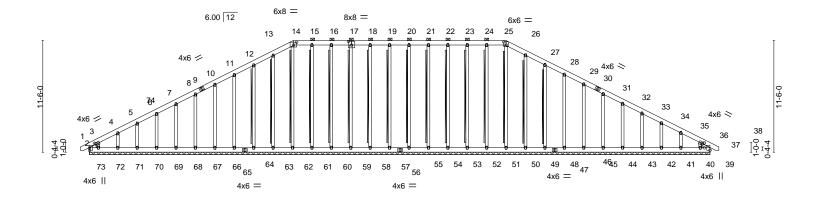
Job	Truss	Truss Type	Qty	Ply	Lot 130 Duncan's Creek	
					162373325	
J1223-6859	A08GE	GABLE	1	1		
					Job Reference (optional)	
Comtook Inc. Fountto	illa NC 20244	n C 2022 MiTak Industrias Inc. Tue Dec E 11/E0/47 2022 Dece 1				

Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Dec

ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 63-11-0 21-0-0 21-11-0 21-0-0 0-11-0

Scale = 1:118.7



63-11-0 Plate Offsets (X,Y)--[3:0-2-9,0-2-0], [14:0-4-0,0-3-8], [17:0-4-0,0-4-8], [25:0-3-0,0-4-0], [36:0-2-9,0-2-0], [37:Edge,0-7-2] LOADING (psf) SPACING-(loc) I/defl L/d **PLATES GRIP** TCLL 20.0 Plate Grip DOL 1.15 TC 0.05 Vert(LL) -0.00 37 120 244/190 n/r MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.03 Vert(CT) -0.00 37 n/r 120 YES **BCLL** 0.0 Rep Stress Incr WB 0.13 37 Horz(CT) 0.01 n/a n/a Code IRC2015/TPI2014 **BCDL** FT = 20%10.0 Matrix-S Weight: 658 lb

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 **OTHERS**

2x4 SP No.2 **SLIDER** Left 2x4 SP No.2 0-10-8, Right 2x4 SP No.2 0-11-10 Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 14-25

Rigid ceiling directly applied or 10-0-0 oc bracing.

2x4 SPF No.2 - 25-50, 24-51, 23-52, 22-53

, 21-54, 20-55, 19-57, 18-58, 17-59, 16-60,

15-61, 14-62, 13-63, 12-64, 26-49, 27-48

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 63-11-0.

Max Horz 2=-145(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 2, 51, 52, 53, 54, 55, 57, 58, 59,

60, 61, 63, 64, 66, 67, 68, 69, 70, 71, 72, 49, 48, 46, 45, 44, 43, 42, 41,

40, 39 except 73=-125(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 2, 50, 51, 52, 53, 54, 55, 57, 58,

59, 60, 61, 62, 63, 64, 66, 67, 68, 69, 70, 71, 72, 73, 49, 48, 46, 45, 44,

43, 42, 41, 40, 39, 37

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

2-3=-319/121, 10-11=-84/262, 11-12=-104/320, 12-13=-125/381, 13-14=-144/431, TOP CHORD

14-15=-131/413, 15-16=-131/413, 16-17=-131/413, 17-18=-132/414, 18-19=-132/414, 19-20=-132/414, 20-21=-132/414, 21-22=-132/414, 22-23=-132/414, 23-24=-132/414,

24-25=-132/414, 25-26=-144/428, 26-27=-127/380, 27-28=-105/319, 28-29=-85/261,

36-37=-308/90

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) -0-9-2 to 5-2-14, Exterior(2) 5-2-14 to 21-0-0, Corner(3) 21-0-0 to 27-0-0, Exterior(2) 27-0-0 to 42-11-0, Corner(3) 42-11-0 to 48-11-0, Exterior(2) 48-11-0 to 64-8-2 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.
- 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.
- 5) Provide adequate drainage to prevent water ponding.

(Con Ailh platesnare gav 4 MT20 unless otherwise indicated



December 6,2023

MARNING - 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/TP11 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 130 Duncan's Creek
					162373325
J1223-6859	A08GE	GABLE	1	1	
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Dec 5 11:58:47 2023 Page 2

ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

NOTES-

- 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, 51, 52, 53, 54, 55, 57, 58, 59, 60, 61, 63, 64, 66, 67, 68, 69, 70, 71, 72, 49, 48, 46, 45, 44, 43, 42, 41, 40, 39 except (jt=lb) 73=125.
- 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.

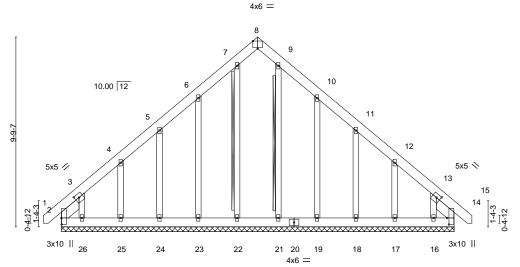
Job Truss Truss Type Qty Lot 130 Duncan's Creek 162373326 J1223-6859 B01GE **GABLE**

Fayetteville, NC - 28314, Comtech, Inc.

Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Dec 5 11:58:49 2023 Page 1

ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 20-3-0 10-1-8 10-1-8

Scale = 1:59.4



20-3-0 20-3-0

Plate Off	sets (X,Y)	[2:0-4-0,0-0-3], [3:0-2-8,0)-2-4 <u>], [8:0-3-0</u>	,Eagej, [13:0)-2-8,0-2-4 <u>],</u> [14:0-4-0,0-1-3]						
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	-0.00	14	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	14	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matri	x-S						Weight: 191 lb	FT = 20%

LUMBER-BRACING-

2x6 SP No.1 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD **BOT CHORD** 2x6 SP No.1 Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.2 WEBS 2x4 SPF No.2 - 7-22, 9-21 SLIDER Left 2x6 SP No.1 1-4-9, Right 2x6 SP No.1 1-4-9 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 20-3-0.

Max Horz 2=-222(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 23, 24, 25, 19, 18, 14, 17 except 2=-141(LC 10), 26=-189(LC 12),

16=-177(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 22, 23, 24, 25, 26, 21, 19, 18, 14, 17, 16 except 2=271(LC

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

TOP CHORD 2-3=-359/282, 13-14=-358/279

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) -0-9-9 to 3-7-4, Exterior(2) 3-7-4 to 10-1-8, Corner(3) 10-1-8 to 14-6-5, Exterior(2) 14-6-5 to 21-0-9 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 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) 23, 24, 25, 19, 18, 14, 17 except (jt=lb) 2=141, 26=189, 16=177.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



December 6,2023



Job Truss Truss Type Qty Lot 130 Duncan's Creek 162373327 J1223-6859 B02 COMMON 2 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Dec 5 11:58:50 2023 Page 1

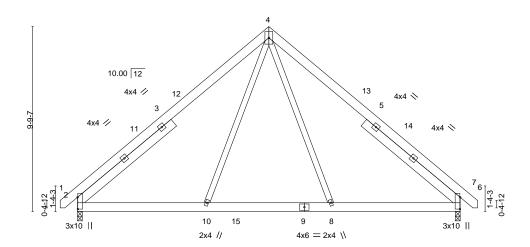
Comtech, Inc, Fayetteville, NC - 28314,

ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

20-3-0 10-1-8 10-1-8

5x8 ||

Scale = 1:61.0



6-10-3 20-3-0

BRACING-

TOP CHORD

BOT CHORD

Plate Offsets (X,Y)--[2:0-7-8,0-0-3], [6:0-7-8,0-0-3]

SPACING-LOADING (psf) CSI. TCLL 20.0 Plate Grip DOL 1.15 TC 0.44 TCDL 10.0 Lumber DOL 1.15 BC 0.22 BCLL 0.0 Rep Stress Incr YES WB 0.61 Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-S

DEFL. in (loc) I/defI L/d Vert(LL) -0.04 8-10 >999 360 Vert(CT) -0.05 8-10 >999 240 Horz(CT) 0.01 6 n/a n/a Wind(LL) 0.04 >999 240 8-10

PLATES GRIP 244/190 MT20

FT = 20% Weight: 175 lb

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

LUMBER-

2x6 SP No.1 TOP CHORD BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2

SLIDER Left 2x6 SP No.1 6-7-9, Right 2x6 SP No.1 6-7-9

REACTIONS. (size) 2=0-3-0, 6=0-3-0

Max Horz 2=-222(LC 8)

Max Uplift 2=-106(LC 9), 6=-106(LC 8) Max Grav 2=858(LC 1), 6=858(LC 1)

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

TOP CHORD 2-4=-948/796, 4-6=-949/796

BOT CHORD 2-10=-377/592. 8-10=-250/495. 6-8=-375/580

WEBS 4-8=-374/308, 4-10=-374/308

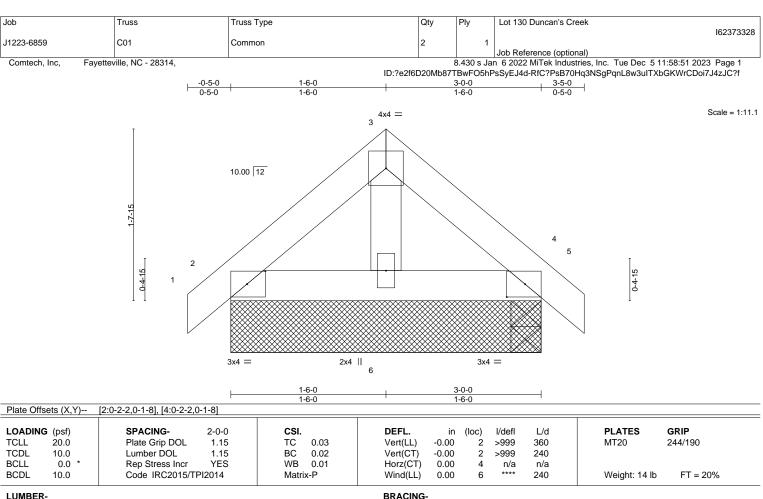
NOTES-

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-9 to 3-7-4, Interior(1) 3-7-4 to 10-1-8, Exterior(2) 10-1-8 to 14-6-5, Interior(1) 14-6-5 to 21-0-9 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=106, 6=106.



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BOT CHORD

TOP CHORD 2x4 SP No.1 2x4 SP No.1 **BOT CHORD** WEBS 2x4 SP No.2

REACTIONS. All bearings 3-0-0.

Max Horz 2=-48(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 4 Max Grav All reactions 250 lb or less at joint(s) 2, 4, 4, 6

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

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



Structural wood sheathing directly applied or 3-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.



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/TP11 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 130 Duncan's Creek 162373329 J1223-6859 C02 Common 10 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Dec 5 11:58:52 2023 Page 1 ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 3-5-0 0-5-0 -0-5-0 0-5-0 3-0-0 1-6-0 1-6-0 Scale = 1:11.1 4x4 = 3 10.00 12 2 0-4-15 0-4-15 6 2x4 || 3x4 = 3x4 = 1-6-0 3-0-0 Plate Offsets (X,Y)--[2:0-2-2,0-1-8], [4:0-2-2,0-1-8] SPACING-**PLATES** GRIP LOADING (psf) CSI. DEFL. in (loc) I/defI L/d 20.0 TCLL Plate Grip DOL 1.15 TC 0.03 Vert(LL) -0.00 6 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.02 Vert(CT) -0.00 6 >999 240 BCLL 0.0 Rep Stress Incr YES WB 0.01 Horz(CT) 0.00 4 n/a n/a

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.00

6 >999 240

Rigid ceiling directly applied or 10-0-0 oc bracing.

Structural wood sheathing directly applied or 3-0-0 oc purlins.

LUMBER-

REACTIONS.

BCDL

TOP CHORD 2x4 SP No.1 2x4 SP No.1 **BOT CHORD** WEBS 2x4 SP No.2

10.0

(size) 2=0-3-8, 4=0-3-8 Max Horz 2=-48(LC 10)

Max Uplift 2=-35(LC 12), 4=-35(LC 13) Max Grav 2=142(LC 1), 4=142(LC 1)

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

Code IRC2015/TPI2014

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip

Matrix-P

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



Weight: 14 lb

FT = 20%



Job Truss Truss Type Qty Lot 130 Duncan's Creek 162373330 J1223-6859 PB1 **GABLE** 2 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Dec 5 11:58:54 2023 Page 1

ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 10-11-8

Scale = 1:37.9

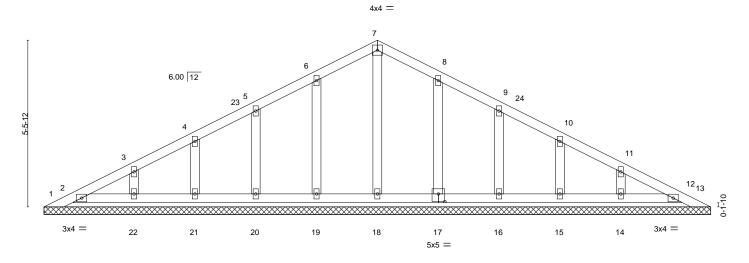


Plate Offsets (X,Y)--[17:0-2-8,0-3-0] LOADING (psf) SPACING-2-0-0 CSI DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.06 Vert(LL) 999 244/190 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.02 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.05 0.00 13 Horz(CT) n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Weight: 101 lb Matrix-S

21-11-0

LUMBER-

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 **OTHERS** 2x4 SP No.2 **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.

REACTIONS. All bearings 21-11-0.

(lb) -Max Horz 1=-108(LC 17)

Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 2, 19, 20, 21, 22, 17, 16, 15, 14, 12 Max Grav All reactions 250 lb or less at joint(s) 1, 13, 2, 18, 19, 20, 21, 22, 17, 16, 15, 14, 12

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

10-11-8

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-3-15 to 4-11-8, Exterior(2) 4-11-8 to 10-11-8, Corner(3) 10-11-8 to 15-4-5, Exterior(2) 15-4-5 to 21-7-1 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 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) 1, 13, 2, 19, 20, 21, 22, 17, 16, 15, 14, 12,
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



December 6,2023



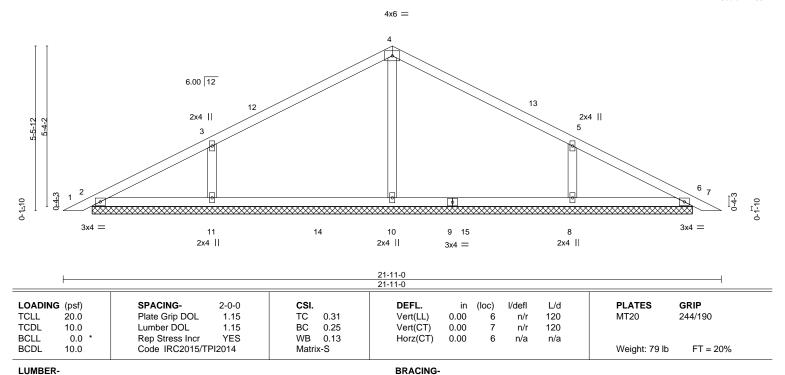
Job Truss Truss Type Qty Lot 130 Duncan's Creek 162373331 J1223-6859 PB2 Piggyback 19 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Dec 5 11:58:56 2023 Page 1 ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

10-11-8

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Scale = 1:38.4



TOP CHORD

BOT CHORD

TOP CHORD 2x4 SP No.1

BOT CHORD 2x4 SP No.1 **OTHERS**

2x4 SP No.2

REACTIONS. All bearings 19-11-14.

Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 11=-108(LC 12), 8=-108(LC 13)

10-11-8

Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 10=572(LC 19), 11=473(LC 23), 8=473(LC 24)

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

4-10=-298/73, 3-11=-362/242, 5-8=-362/242 WEBS

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-15 to 4-11-8, Interior(1) 4-11-8 to 10-11-8, Exterior(2) 10-11-8 to 15-4-5, Interior(1) 15-4-5 to 21-7-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 11=108 8=108
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



December 6,2023



Job Truss Truss Type Qty Lot 130 Duncan's Creek 162373332 J1223-6859 V1 Valley Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Dec 5 11:58:57 2023 Page 1 ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 20-11-13 10-5-15 10-5-15 Scale = 1:53.2 4x4 = 10.00 12 16 9-0-0 3x4 // 3x4 N 12 11 10 8 3x4 0-0-7

	0-0-7	20-11-6		
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. DEFL. TC 0.16 Vert(LL)	in (loc) l/defl L/d n/a - n/a 999	PLATES GRIP MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.19 Vert(CT)	n/a - n/a 999	
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.16 Horz(CT) Matrix-S	0.00 7 n/a n/a	Weight: 101 lb FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1

OTHERS 2x4 SP No.2

REACTIONS. All bearings 20-10-15 Max Horz 1=-202(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 12=-141(LC 12), 13=-104(LC 12), 9=-140(LC 13),

8=-104(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=443(LC 22), 12=473(LC 19), 13=285(LC 19),

9=473(LC 20), 8=285(LC 20)

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

WEBS 3-12=-357/254, 2-13=-277/212, 5-9=-357/254, 6-8=-277/212

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 10-5-15, Exterior(2) 10-5-15 to 14-10-11, Interior(1) 14-10-11 to 20-7-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 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.
- * 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) 1, 7 except (jt=lb) 12=141, 13=104, 9=140, 8=104.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

4-11

Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt

December 6,2023



Job Truss Truss Type Qty Lot 130 Duncan's Creek 162373333 J1223-6859 V2 Valley Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Dec 5 11:58:59 2023 Page 1 ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 9-3-8 9-3-8 9-3-8 Scale = 1:47.2 4x4 = 10.00 12 5 3 15 9-0-0 9-0-0 3x4 // ₁₃ 12 10 9 11 3x4 = 18-7-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 Vert(LL) 999 244/190 **TCLL** TC 0.16 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.19 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.14 Horz(CT) 0.00 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-S Weight: 86 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1

OTHERS 2x4 SP No.2

REACTIONS. All bearings 18-6-2.

Max Uplift All uplift 100 lb or less at joint(s) 7 except 1=-131(LC 10), 12=-141(LC 12), 13=-105(LC 12),

9=-141(LC 13), 8=-105(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=433(LC 22), 12=474(LC 19), 13=282(LC 19),

9=473(LC 20), 8=282(LC 20)

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

3-12=-356/255, 2-13=-293/238, 5-9=-356/254, 6-8=-293/238

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 9-3-8, Exterior(2) 9-3-8 to 13-8-5, Interior(1) 13-8-5 to 18-2-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 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.
- * 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) 7 except (jt=lb) 1=131, 12=141, 13=105, 9=141, 8=105.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.



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)



Job Truss Truss Type Qty Lot 130 Duncan's Creek 162373334 J1223-6859 V3 Valley Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Dec 5 11:59:00 2023 Page 1 ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 16-2-4 8-1-2 8-1-2 Scale = 1:41.7 4x4 = 3 10.00 12 12 2x4 || 2x4 || 2 13 10 9-0-0 3x4 📏 3x4 / 15 2x4 || 2x4 || 2x4 || 16-2-4 16-1-12 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 Vert(LL) 999 244/190 **TCLL** TC 0.16 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.17 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.11 Horz(CT) 0.00 5 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-S Weight: 71 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1

OTHERS 2x4 SP No.2

REACTIONS. All bearings 16-1-5.

Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-147(LC 12), 6=-147(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=413(LC 19), 9=450(LC 19), 6=450(LC 20)

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

2-9=-366/259, 4-6=-366/259 WEBS

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 8-1-2, Exterior(2) 8-1-2 to 12-5-15, Interior(1) 12-5-15 to 15-9-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=147. 6=147.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.



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

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Job Truss Truss Type Qty Lot 130 Duncan's Creek 162373335 J1223-6859 V4 Valley Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Dec 5 11:59:01 2023 Page 1 ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 6-10-11 6-10-11 Scale = 1:35.1 4x4 = 3 10.00 12 10 2x4 || 2x4 || 2 9 3x4 / 3x4 📏 8 7 6 2x4 || 2x4 || 2x4 || 13-9-7 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 999 244/190 **TCLL** TC 0.13 Vert(LL) n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.09 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.08 Horz(CT) 0.00 5 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-S Weight: 59 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1

OTHERS 2x4 SP No.2

REACTIONS. All bearings 13-8-8. Max Horz 1=-130(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-128(LC 12), 6=-128(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=344(LC 19), 6=343(LC 20)

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

2-8=-322/240, 4-6=-322/240 WEBS

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 6-10-11, Exterior(2) 6-10-11 to 11-3-8, Interior(1) 11-3-8 to 13-4-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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 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.
- 6) 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=128, 6=128,



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.



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

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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)



Job Truss Truss Type Qty Lot 130 Duncan's Creek 162373336 Valley J1223-6859 V5 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Dec 5 11:59:03 2023 Page 1 ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 11-4-10 5-8-5 5-8-5 Scale = 1:29.2 4x4 = 3 10 10.00 12 2x4 || 4 2x4 || 2 12 6 8 3x4 / 3x4 N 2x4 || 2x4 || 2x4 || 11-4-10 11-4-3 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL TC Vert(LL) 999 244/190 **TCLL** 1.15 0.13 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.09 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 5 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-S Weight: 46 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1

OTHERS 2x4 SP No.2

REACTIONS. All bearings 11-3-12.

Max Horz 1=106(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-126(LC 12), 6=-126(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=330(LC 19), 6=329(LC 20)

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

2-8=-323/257, 4-6=-323/257 WEBS

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 5-8-5, Exterior(2) 5-8-5 to 10-1-2, Interior(1) 10-1-2 to 10-11-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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 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.
- 6) 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=126, 6=126,



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

December 6,2023

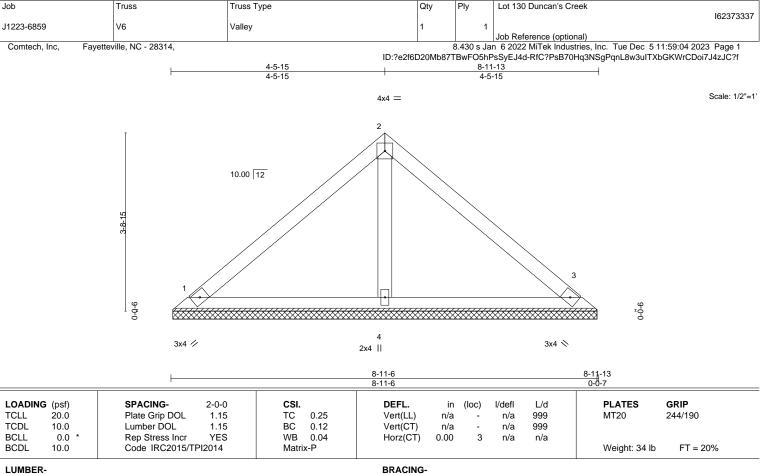


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BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1

OTHERS 2x4 SP No.2

> 1=8-10-15, 3=8-10-15, 4=8-10-15 (size) Max Horz 1=82(LC 9)

Max Uplift 1=-29(LC 13), 3=-36(LC 13)

Max Grav 1=189(LC 1), 3=189(LC 1), 4=276(LC 1)

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

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

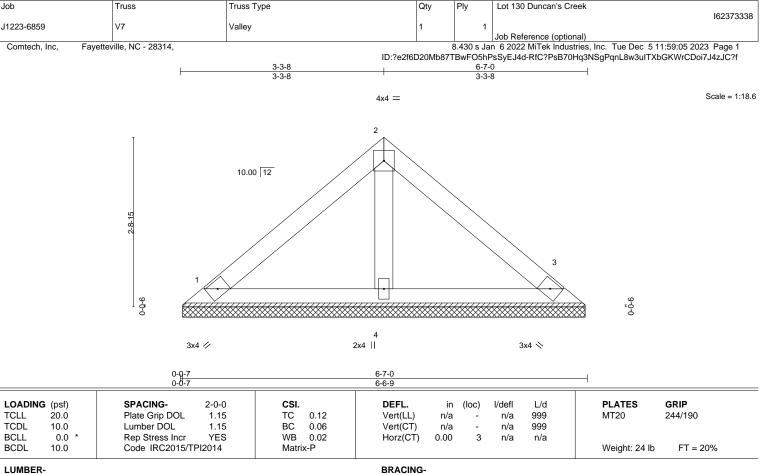


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BOT CHORD

Lot 130 Duncan's Creek

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

LUMBER-

Job

Truss

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1

OTHERS 2x4 SP No.2

REACTIONS.

1=6-6-2, 3=6-6-2, 4=6-6-2 (size) Max Horz 1=-58(LC 8) Max Uplift 1=-20(LC 13), 3=-25(LC 13)

Max Grav 1=134(LC 1), 3=134(LC 1), 4=195(LC 1)

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

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

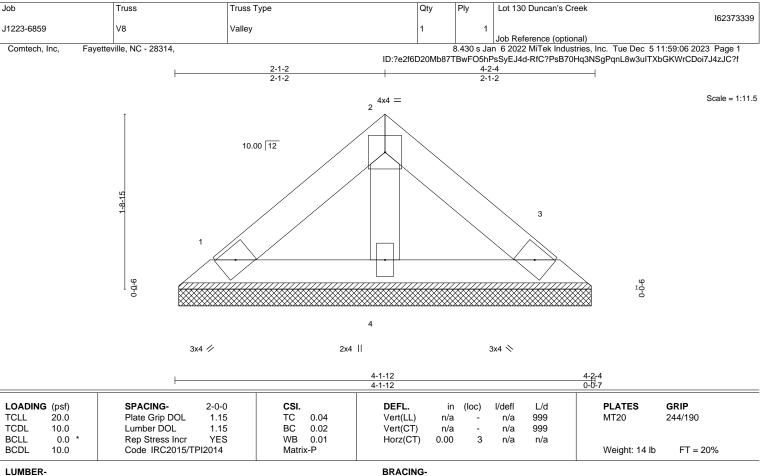


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BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1

OTHERS 2x4 SP No.2

REACTIONS.

1=4-1-5, 3=4-1-5, 4=4-1-5 (size) Max Horz 1=-34(LC 8) Max Uplift 1=-12(LC 13), 3=-15(LC 13)

Max Grav 1=78(LC 1), 3=78(LC 1), 4=114(LC 1)

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

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



Structural wood sheathing directly applied or 4-2-4 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.



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/TP11 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 130 Duncan's Creek 162373340 J1223-6859 V9 Valley Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Dec 5 11:59:07 2023 Page 1 ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 0-10-11 0-10-11 Scale = 1:6.5 3 10.00 12 9-0-0 9-0-C 4x6 // 3x4 🚿 0₇0₇7 0-0-7 Plate Offsets (X,Y)--[1:0-2-7,Edge] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d Plate Grip DOL TCLL 20.0 1.15 TC 0.00 Vert(LL) 999 MT20 244/190 n/a n/a

LUMBER-

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1

10.0

0.0

10.0

BRACING-

Vert(CT)

Horz(CT)

n/a

0.00

n/a

n/a

3

999

n/a

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 1-9-7 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

Weight: 5 lb

REACTIONS. 1=1-8-8, 3=1-8-8 (size)

Max Horz 1=10(LC 9) Max Uplift 1=-2(LC 12), 3=-2(LC 13)

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

Max Grav 1=39(LC 1), 3=39(LC 1)

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

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

BC

WB

Matrix-P

0.01

0.00

- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.15

YES

- 5) * 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



FT = 20%



Job Truss Truss Type Qty Lot 130 Duncan's Creek 162373341 J1223-6859 V10 Valley 2 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Dec 5 11:58:58 2023 Page 1 ID:?e2f6D20Mb87TBwFO5hPsSyEJ4d-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 3-4-11 1-8-5 1-8-5 Scale = 1:9.8 4x4 = 2 10.00 12 3 9-0-0 0-0-6 3x4 / 2x4 || 3x4 N LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL TC 999 244/190 **TCLL** 1.15 0.02 Vert(LL) n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.01 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 Code IRC2015/TPI2014 BCDL 10.0 Matrix-P Weight: 11 lb FT = 20% **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.1 2x4 SP No.1

BOT CHORD **OTHERS** 2x4 SP No.2

> 1=3-3-12, 3=3-3-12, 4=3-3-12 (size) Max Horz 1=-26(LC 8) Max Uplift 1=-9(LC 13), 3=-11(LC 13) Max Grav 1=60(LC 1), 3=60(LC 1), 4=87(LC 1)

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

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



Structural wood sheathing directly applied or 3-4-11 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.



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

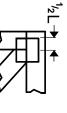
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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/TP11 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)

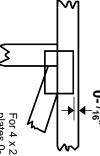


Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- ¹/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

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

PLATE SIZE

4 × 4

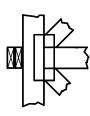
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

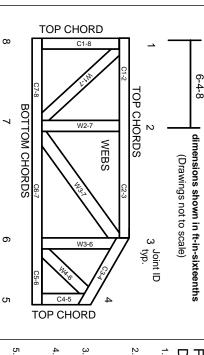
Industry Standards:

ANSI/TPI1: DSB-22:

National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing.

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/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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

▲ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

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- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 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.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.