

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 3685977

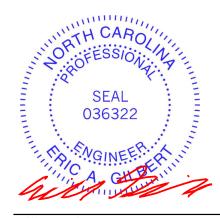
DR HORTON; COLUMBIA; A; MASTER.RT

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource-Apex,NC.

Pages or sheets covered by this seal: I62516902 thru I62516917

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

North Carolina COA: C-0844



December 12,2023

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 DR HORTON: COLUMBIA: A: MASTER.RT 162516902 3685977 A01G **GABLE** Job Reference (optional) Builders FirstSource (Apex, NC), Apex, NC - 27523 8.630 s Aug 30 2023 MiTek Industries, Inc. Tue Dec 12 13:18:19 2023 Page 1

ID:fJZOU2ZLpXU3XKYCOPhCD1zhel_-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

16-35

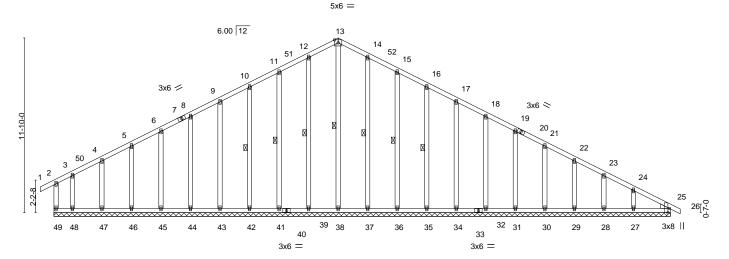
Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

1 Row at midpt

19-3-0 22-6-0

Scale = 1:78.0



41-9-0 41-9-0

Plate Off	sets (X,Y)	[25:0-3-8,Edge]										
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	0.14	Vert(LL)	0.00	25	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	26	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.01	25	n/a	n/a		
BCDL	10.0	Code IRC2015/Ti	PI2014	Matri	x-S						Weight: 325 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS 2x4 SP No.3 **OTHERS** 2x4 SP No.3

WEDGE

Right: 2x4 SP No.3

REACTIONS. All bearings 41-9-0.

Max Horz 49=-167(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 49, 39, 41, 42, 43, 44, 45, 46, 47, 37, 36, 35, 34, 32, 31, 30, 29, 28, 27, 25 except 48=-106(LC 12) Max Grav All reactions 250 lb or less at joint(s) 49, 38, 39, 41, 42, 43, 44, 45,

46, 47, 48, 37, 36, 35, 34, 32, 31, 30, 29, 28, 27, 25

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

TOP CHORD 9-10=-112/272, 10-11=-126/313, 11-12=-142/357, 12-13=-154/412, 13-14=-154/422,

14-15=-142/389, 15-16=-126/345, 16-17=-112/304, 17-18=-97/263

WEBS 13-38=-277/60

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-11-0 to 2-1-0, Exterior(2) 2-1-0 to 19-3-0, Corner(3) 19-3-0 to 22-3-0, Exterior(2) 22-3-0 to 42-5-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 49, 39, 41, 42, 43, 44, 45, 46, 47, 37, 36, 35, 34, 32, 31, 30, 29, 28, 27, 25 except (jt=lb) 48=106.



13-38, 12-39, 11-41, 10-42, 14-37, 15-36,

December 12,2023



Job Truss Truss Type Qty DR HORTON: COLUMBIA: A: MASTER.RT 162516903 3685977 A02 COMMON 6 Job Reference (optional) Builders FirstSource (Apex, NC), Apex, NC - 27523 8.630 s Aug 30 2023 MiTek Industries, Inc. Tue Dec 12 13:18:21 2023 Page 1 ID:fJZOU2ZLpXU3XKYCOPhCD1zhel_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 41-9-0 42-5-0 0-8-0 26-9-13 6-4-13 6-4-13 7-6-13 7-8-14 7-2-5 Scale = 1:79.9 5x6 = 6.00 12 23 4x6 / 4x8 > 3x6 🖊 3x6 ≥ 5x6 / 2x4 🖊 8 24 3x4 25 2-2-8 26 27 28 15 14 12 11 16 13 6x8 = 4x6 = 3x6 = 3x6 = 4x6 =

	9-7-12	19-3-0	30-7-8	41-9-0
	9-7-12	9-7-4	11-4-8	11-1-8
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.89 BC 0.88 WB 0.78 Matrix-MS	DEFL. in (loc) l/defl L/d Vert(LL) -0.51 11-13 >973 360 Vert(CT) -0.87 11-13 >575 240 Horz(CT) 0.12 9 n/a n/a Wind(LL) 0.08 11-13 >999 240	PLATES GRIP MT20 244/190 Weight: 237 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

3x8 =

LUMBER-

2x4 SP No.2 *Except* TOP CHORD 7-10: 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 *Except*

4x6 =

12-14: 2x4 SP SS

WEBS 2x4 SP No.3

WEDGE

Right: 2x4 SP No.3

REACTIONS. (size) 16=Mechanical, 9=0-3-8

Max Horz 16=-171(LC 10)

Max Uplift 9=-2(LC 13)

Max Grav 16=1664(LC 1), 9=1704(LC 1)

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

TOP CHORD $2-4=-2133/199,\ 4-5=-1818/236,\ 5-6=-1836/235,\ 6-8=-2708/198,\ 8-9=-2997/204$

BOT CHORD 15-16=-31/1764, 13-15=0/1797, 11-13=-16/2087, 9-11=-88/2600 WEBS

2-16=-2151/123, 4-13=-498/126, 5-13=-71/1248, 6-11=0/610, 8-11=-398/150,

6-13=-822/151

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-12 to 3-4-12, Interior(1) 3-4-12 to 19-6-0, Exterior(2) 19-6-0 to 23-8-15, Interior(1) 23-8-15 to 42-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9.



Structural wood sheathing directly applied, except end verticals.

2-16, 4-13, 6-13

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

1 Row at midpt

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Job Truss Truss Type Qty DR HORTON: COLUMBIA: A: MASTER.RT 162516904 3685977 A03BV SPECIAL Job Reference (optional) Builders FirstSource, Apex, NC 27523

5x6 =

8.630 s Mar 9 2023 MiTek Industries, Inc. Tue Dec 12 14:48:12 2023 Page 1 ID:fJZOU2ZLpXU3XKYCOPhCD1zhel_-KENmm6GDFJ6pqMnRzRFgInEocZ3hWZY6iKQKEZy9ghn -0-8₋0 0-8-0 8-5-5

14-2-3 19-6-0 26-0-0 34-0-0 42-0-0 42-8-0 0-8-0 5-8-14 5-3-13 6-6-0 8-0-0 8-0-0

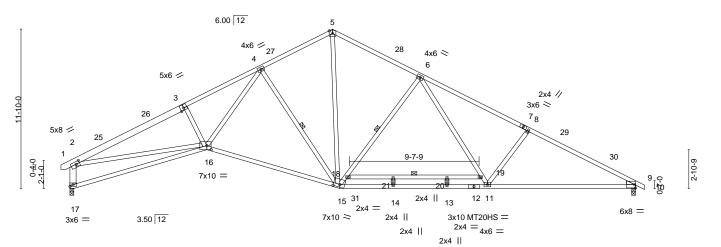
Scale = 1:85.5

Structural wood sheathing directly applied, except end verticals.

4-15, 6-15, 18-19

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

1 Row at midpt



	10-2-0	20-0-8	24-0-0	28-0-0 31-0-0	42-0-0	
	10-2-0	9-10-8	3-11-8	4-0-0 3-0-0	11-0-0	1
Plate Offsets (X,Y)						
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 0.93	Vert(LL) -	-0.75 13-14 >669	360 MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.93	Vert(CT) -	-1.08 13-14 >466	240 MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.93	Horz(CT)	0.23 9 n/a	n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL)	0.12 15-16 >999	240 Weight: 263 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*

5-7: 2x4 SP SS, 1-3: 2x6 SP No.2

8-5-5

2x4 SP SS *Except* **BOT CHORD**

16-17: 2x4 SP No.2, 15-16: 2x4 SP No.1

WEBS 2x4 SP No.3 *Except*

2-17: 2x6 SP No.2, 2-16: 2x4 SP No.2, 18-19: 2x4 SP No.1

WEDGE

Right: 2x4 SP No.3

REACTIONS. (lb/size) 17=1714/0-3-8 (min. 0-2-0), 9=1711/0-3-8 (min. 0-2-0)

Max Horz 17=-165(LC 10) Max Uplift 9=-1(LC 13)

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

TOP CHORD 2-17=-1701/186, 2-25=-3878/151, 25-26=-3749/161, 3-26=-3720/183, 3-4=-3638/207,

4-27=-1753/217, 5-27=-1676/243, 5-28=-1740/247, 6-28=-1842/216, 6-7=-2734/219,

7-8=-2744/176, 8-29=-2814/200, 29-30=-2883/180, 9-30=-2982/165

BOT CHORD 16-17=-141/428, 15-16=0/2290, 15-31=0/1994, 14-31=0/1994, 13-14=0/1994, 12-13=0/1994, 11-12=0/1994, 9-11=-78/2579

WFBS 2-16=-42/3045, 3-16=-314/134, 4-16=0/1819, 5-15=-100/1304, 6-19=0/867, 11-19=-8/779,

8-11=-418/151, 4-15=-1220/123, 15-18=-824/139, 6-18=-788/157

NOTES-

- 1) Unbalanced roof live loads have been considered for this design
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-5-14 to 2-6-2, Interior(1) 2-6-2 to 19-6-0, Exterior(2) 19-6-0 to 23-8-15, Interior(1) 23-8-15 to 42-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 9.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

ORTH

December 12,2023

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	DR HORTON; COLUMBIA; A; MASTER.RT	
3685977	A03BV	SPECIAL	3	1		162516904
0000077	7,000	01 201/12	0		Job Reference (optional)	

8 630 s Mar, 9 2023 MiTek Industries, Inc., Tue Dec 12 14:48:12 2023, Page 2 ID:fJZOU2ZLpXU3XKYCOPhCD1zhel_-KENmm6GDFJ6pqMnRzRFgInEocZ3hWZY6iKQKEZy9ghn

LOAD CASE(S)

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-5=-60, 5-10=-60, 16-17=-20, 15-16=-20, 15-22=-20

2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab, Attic Storage; Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-50, 2-5=-50, 5-10=-50, 16-17=-20, 15-16=-20, 15-31=-20, 12-31=-50(F=-30), 12-22=-20

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-2=-20, 2-5=-20, 5-10=-20, 16-17=-40, 15-16=-40, 15-31=-40, 12-31=-80(F=-40), 12-22=-40

4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=47, 2-25=25, 5-25=14, 5-28=25, 9-28=14, 9-10=9, 16-17=-12, 15-16=-12, 15-22=-12 Horz: 2-17=14, 1-2=-59, 2-25=-37, 5-25=-26, 5-28=37, 9-28=26, 9-10=21

5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=9, 2-27=14, 5-27=25, 5-30=14, 9-30=25, 9-10=47, 16-17=-12, 15-16=-12, 15-22=-12 Horz: 2-17=-26, 1-2=-21, 2-27=-26, 5-27=-37, 5-30=26, 9-30=37, 9-10=59

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

Uniform Loads (plf)

Vert: 1-2=-12, 2-5=-33, 5-9=-33, 9-10=-28, 16-17=-20, 15-16=-20, 15-22=-20

Horz: 2-17=-17, 1-2=-8, 2-5=13, 5-9=-13, 9-10=-8

7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-28, 2-5=-33, 5-9=-33, 9-10=-12, 16-17=-20, 15-16=-20, 15-22=-20

Horz: 2-17=24, 1-2=8, 2-5=13, 5-9=-13, 9-10=8

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=9, 2-5=-2, 5-9=9, 9-10=4, 16-17=-12, 15-16=-12, 15-22=-12

Horz: 2-17=14, 1-2=-21, 2-5=-10, 5-9=21, 9-10=16

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=4, 2-5=9, 5-9=-2, 9-10=9, 16-17=-12, 15-16=-12, 15-22=-12

Horz: 2-17=-18, 1-2=-16, 2-5=-21, 5-9=10, 9-10=21

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-15, 2-5=-20, 5-9=-9, 9-10=-4, 16-17=-20, 15-16=-20, 15-22=-20

Horz: 2-17=23, 1-2=-5, 2-5=-0, 5-9=11, 9-10=16

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

> Vert: 1-2=-4, 2-5=-9, 5-9=-20, 9-10=-15, 16-17=-20, 15-16=-20, 15-22=-20 Horz: 2-17=-8, 1-2=-16, 2-5=-11, 5-9=0, 9-10=5

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=17, 2-26=22, 5-26=11, 5-9=3, 9-10=-2, 16-17=-12, 15-16=-12, 15-22=-12

Horz: 2-17=12, 1-2=-29, 2-26=-34, 5-26=-23, 5-9=15, 9-10=10 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-2, 2-5=3, 5-29=11, 9-29=22, 9-10=17, 16-17=-12, 15-16=-12, 15-22=-12 Horz: 2-17=-13, 1-2=-10, 2-5=-15, 5-29=23, 9-29=34, 9-10=29

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=7, 2-5=11, 5-9=3, 9-10=-2, 16-17=-12, 15-16=-12, 15-22=-12

Horz: 2-17=6, 1-2=-19, 2-5=-23, 5-9=15, 9-10=10

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-2, 2-5=3, 5-9=11, 9-10=7, 16-17=-12, 15-16=-12, 15-22=-12 Horz: 2-17=-13, 1-2=-10, 2-5=-15, 5-9=23, 9-10=19

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

> Vert: 1-2=9, 2-26=4, 5-26=-6, 5-9=-15, 9-10=-10, 16-17=-20, 15-16=-20, 15-22=-20 Horz: 2-17=21, 1-2=-29, 2-26=-24, 5-26=-14, 5-9=5, 9-10=10

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-10, 2-5=-15, 5-29=-6, 9-29=4, 9-10=9, 16-17=-20, 15-16=-20, 15-22=-20 Horz: 2-17=-3, 1-2=-10, 2-5=-5, 5-29=14, 9-29=24, 9-10=29

18) Dead + Uninhabitable Attic Storage: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90 Uniform Loads (plf)

Vert: 1-2=-20, 2-5=-20, 5-10=-20, 16-17=-20, 15-16=-20, 15-31=-20, 12-31=-60(F=-40), 12-22=-20

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

Uniform Loads (plf)

Vert: 1-2=-46, 2-5=-50, 5-9=-42, 9-10=-38, 16-17=-20, 15-16=-20, 15-31=-20, 12-31=-50(F=-30), 12-22=-20 Horz: 2-17=18, 1-2=-4, 2-5=-0, 5-9=8, 9-10=12

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

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	Ply	DR HORTON; COLUMBIA; A; MASTER.RT	
3685977	A03BV	SPECIAL	3	1		162516904
					Job Reference (optional)	

8.630 s Mar 9 2023 MiTek Industries, Inc. Tue Dec 12 14:48:12 2023 Page 3 ID:fJZOU2ZLpXU3XKYCOPhCD1zhel_-KENmm6GDFJ6pqMnRzRFgInEocZ3hWZY6iKQKEZy9ghn

LOAD CASE(S)

Uniform Loads (plf)

Vert: 1-2=-38, 2-5=-42, 5-9=-50, 9-10=-46, 16-17=-20, 15-16=-20, 15-31=-20, 12-31=-50(F=-30), 12-22=-20

Horz: 2-17=-6, 1-2=-12, 2-5=-8, 5-9=0, 9-10=4

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

Vert: 1-2=-28, 2-26=-32, 5-26=-40, 5-9=-46, 9-10=-43, 16-17=-20, 15-16=-20, 15-31=-20, 12-31=-50(F=-30), 12-22=-20 Horz: 2-17=16, 1-2=-22, 2-26=-18, 5-26=-10, 5-9=4, 9-10=7

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

Vert: 1-2=-43, 2-5=-46, 5-29=-40, 9-29=-32, 9-10=-28, 16-17=-20, 15-16=-20, 15-31=-20, 12-31=-50(F=-30), 12-22=-20 Horz: 2-17=-2, 1-2=-7, 2-5=-4, 5-29=10, 9-29=18, 9-10=22

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-60, 2-5=-60, 5-10=-20, 16-17=-20, 15-16=-20, 15-22=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-20, 2-5=-20, 5-10=-60, 16-17=-20, 15-16=-20, 15-22=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-50, 2-5=-50, 5-10=-20, 16-17=-20, 15-16=-20, 15-31=-20, 12-31=-50(F=-30), 12-22=-20

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-20, 2-5=-20, 5-10=-50, 16-17=-20, 15-16=-20, 15-31=-20, 12-31=-50(F=-30), 12-22=-20



Job Truss Truss Type Qty DR HORTON: COLUMBIA: A: MASTER RT 162516905 3685977 A04SGV **GABLE** Job Reference (optional)

5x6 =

Builders FirstSource, Apex, NC 27523

8.630 s Mar 9 2023 MiTek Industries, Inc. Tue Dec 12 14:48:25 2023 Page 1 ID:fJZOU2ZLpXU3XKYCOPhCD1zhel_-RkfhVZQNBJkztMHxDg_jKWH0KpVk3Qw1is4XCIy9gha -0-8₋0 14-2-3 19-6-0 26-0-0 34-0-0 42-0-0 42-8-0 0-8-0 8-5-5 5-8-14 5-3-13 6-6-0 8-0-0 8-0-0

Scale = 1:81.3

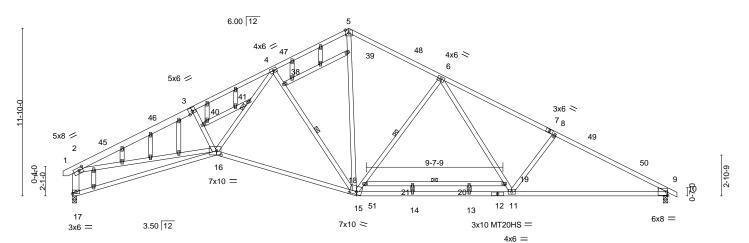
Structural wood sheathing directly applied, except end verticals.

4-15, 6-15, 18-19

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

1 Row at midpt

1 Brace at Jt(s): 41



	10-2-0	20-0-8	24-0-0 28-0-0 31-0-0	42-0-0
	10-2-0	9-10-8	3-11-8 4-0-0 3-0-0	11-0-0
Plate Offsets (X,Y)	[2:0-3-4,0-2-4], [15:0-5-12,0-2-4], [16	6:0-3-12,0-3-8]		
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 0.93	Vert(LL) -0.75 13-14 >670 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.93	Vert(CT) -1.08 13-14 >466 240	MT20HS 187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.98	Horz(CT) 0.23 9 n/a n/a	a
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.12 15-16 >999 240	Weight: 293 lb FT = 20%

BRACING-

WEBS

JOINTS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*

5-7: 2x4 SP SS, 1-3: 2x6 SP No.2

2x4 SP SS *Except* **BOT CHORD**

16-17: 2x4 SP No.2, 15-16: 2x4 SP No.1

WEBS 2x4 SP No.3 *Except*

2-17: 2x6 SP No.2, 2-16: 2x4 SP No.2, 18-19: 2x4 SP No.1

OTHERS 2x4 SP No.3

WEDGE

Right: 2x4 SP No.3

REACTIONS. (lb/size) 17=1714/0-3-8 (min. 0-2-0), 9=1711/0-3-8 (min. 0-2-0)

Max Horz 17=-165(LC 10) Max Uplift 9=-1(LC 13)

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

2-17=-1700/186, 2-45=-3878/151, 45-46=-3750/161, 3-46=-3721/183, 3-4=-3587/204, TOP CHORD

4-47=-1799/220, 5-47=-1722/246, 5-48=-1740/247, 6-48=-1842/216, 6-7=-2734/219,

7-8=-2744/176, 8-49=-2814/200, 49-50=-2883/180, 9-50=-2982/165

BOT CHORD 16-17=-141/428, 15-16=0/2289, 15-51=0/1994, 14-51=0/1994, 13-14=0/1994,

12-13=0/1994, 11-12=0/1994, 9-11=-78/2579

WEBS $2\text{-}16\text{=-}42/3046,\ 3\text{-}40\text{=-}319/134,\ 16\text{-}40\text{=-}314/134,\ 16\text{-}41\text{=0}/1847,\ 4\text{-}41\text{=0}/1776,}$

5-39=-102/1319, 15-39=-100/1301, 6-19=0/867, 11-19=-8/779, 8-11=-418/151,

4-38=-1214/122, 15-38=-1220/123, 15-18=-824/139, 6-18=-788/157

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-5-14 to 2-6-2, Interior(1) 2-6-2 to 19-6-0, Exterior(2) 19-6-0 to 23-8-15, Interior(1) 23-8-15 to 42-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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 MT20 plates unless otherwise indicated.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 9.

December 12,2023

Edenton, NC 27932

🗥 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	DR HORTON; COLUMBIA; A; MASTER.RT	
3685977	A04SGV	GABLE	1	1		162516905
					Job Reference (optional)	

8 630 s Mar, 9 2023 MiTek Industries, Inc., Tue Dec 12 14:48:25 2023, Page 2 ID:fJZOU2ZLpXU3XKYCOPhCD1zhel_-RkfhVZQNBJkztMHxDg_jKWH0KpVk3Qw1is4XCly9gha

NOTES-

11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

12) N/A

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)

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

Vert: 1-2=-60, 2-5=-60, 5-10=-60, 16-17=-20, 15-16=-20, 15-42=-20

2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-50, 2-5=-50, 5-10=-50, 16-17=-20, 15-16=-20, 15-51=-20, 12-51=-50(F=-30), 12-42=-20

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-2=-20, 2-5=-20, 5-10=-20, 16-17=-40, 15-16=-40, 15-51=-40, 12-51=-80(F=-40), 12-42=-40

4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

> Vert: 1-2=47, 2-45=25, 5-45=14, 5-48=25, 9-48=14, 9-10=9, 16-17=-12, 15-16=-12, 15-42=-12 Horz: 2-17=14, 1-2=-59, 2-45=-37, 5-45=-26, 5-48=37, 9-48=26, 9-10=21

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

Uniform Loads (plf) Vert: 1-2=9, 2-47=14, 5-47=25, 5-50=14, 9-50=25, 9-10=47, 16-17=-12, 15-16=-12, 15-42=-12

Horz: 2-17=-26, 1-2=-21, 2-47=-26, 5-47=-37, 5-50=26, 9-50=37, 9-10=59

6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-12, 2-5=-33, 5-9=-33, 9-10=-28, 16-17=-20, 15-16=-20, 15-42=-20 Horz: 2-17=-17, 1-2=-8, 2-5=13, 5-9=-13, 9-10=-8

7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-28, 2-5=-33, 5-9=-33, 9-10=-12, 16-17=-20, 15-16=-20, 15-42=-20 Horz: 2-17=24, 1-2=8, 2-5=13, 5-9=-13, 9-10=8

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=9, 2-5=-2, 5-9=9, 9-10=4, 16-17=-12, 15-16=-12, 15-42=-12

Horz: 2-17=14, 1-2=-21, 2-5=-10, 5-9=21, 9-10=16

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=4, 2-5=9, 5-9=-2, 9-10=9, 16-17=-12, 15-16=-12, 15-42=-12

Horz: 2-17=-18, 1-2=-16, 2-5=-21, 5-9=10, 9-10=21

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

> Vert: 1-2=-15, 2-5=-20, 5-9=-9, 9-10=-4, 16-17=-20, 15-16=-20, 15-42=-20 Horz: 2-17=23, 1-2=-5, 2-5=-0, 5-9=11, 9-10=16

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-4, 2-5=-9, 5-9=-20, 9-10=-15, 16-17=-20, 15-16=-20, 15-42=-20

Horz: 2-17=-8, 1-2=-16, 2-5=-11, 5-9=0, 9-10=5 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf) Vert: 1-2=17, 2-46=22, 5-46=11, 5-9=3, 9-10=-2, 16-17=-12, 15-16=-12, 15-42=-12

Horz: 2-17=12, 1-2=-29, 2-46=-34, 5-46=-23, 5-9=15, 9-10=10

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

> Vert: 1-2=-2, 2-5=3, 5-49=11, 9-49=22, 9-10=17, 16-17=-12, 15-16=-12, 15-42=-12 Horz: 2-17=-13, 1-2=-10, 2-5=-15, 5-49=23, 9-49=34, 9-10=29

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

> Vert: 1-2=7, 2-5=11, 5-9=3, 9-10=-2, 16-17=-12, 15-16=-12, 15-42=-12 Horz: 2-17=6, 1-2=-19, 2-5=-23, 5-9=15, 9-10=10

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-2, 2-5=3, 5-9=11, 9-10=7, 16-17=-12, 15-16=-12, 15-42=-12 Horz: 2-17=-13, 1-2=-10, 2-5=-15, 5-9=23, 9-10=19

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=9, 2-46=4, 5-46=-6, 5-9=-15, 9-10=-10, 16-17=-20, 15-16=-20, 15-42=-20 Horz: 2-17=21, 1-2=-29, 2-46=-24, 5-46=-14, 5-9=5, 9-10=10

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-10, 2-5=-15, 5-49=-6, 9-49=4, 9-10=9, 16-17=-20, 15-16=-20, 15-42=-20 Horz: 2-17=-3, 1-2=-10, 2-5=-5, 5-49=14, 9-49=24, 9-10=29

18) Dead + Uninhabitable Attic Storage: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90 Uniform Loads (plf)

Vert: 1-2=-20, 2-5=-20, 5-10=-20, 16-17=-20, 15-16=-20, 15-51=-20, 12-51=-60(F=-40), 12-42=-20

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

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	Ply	DR HORTON; COLUMBIA; A; MASTER.RT	
3685977	A04SGV	GABLE	1	1		162516905
0000077	7.0.007	0/1522			Job Reference (optional)	

8.630 s Mar 9 2023 MiTek Industries, Inc. Tue Dec 12 14:48:25 2023 Page 3
ID:fJZOU2ZLpXU3XKYCOPhCD1zhel_-RkfhVZQNBJkztMHxDg_jKWH0KpVk3Qw1is4XCIy9gha

LOAD CASE(S)

Uniform Loads (plf)

Vert: 1-2=-46, 2-5=-50, 5-9=-42, 9-10=-38, 16-17=-20, 15-16=-20, 15-51=-20, 12-51=-50(F=-30), 12-42=-20

Horz: 2-17=18, 1-2=-4, 2-5=-0, 5-9=8, 9-10=12

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

Vert: 1-2=-38, 2-5=-42, 5-9=-50, 9-10=-46, 16-17=-20, 15-16=-20, 15-51=-20, 12-51=-50(F=-30), 12-42=-20

Horz: 2-17=-6, 1-2=-12, 2-5=-8, 5-9=0, 9-10=4 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-28, 2-46=-32, 5-46=-40, 5-9=-46, 9-10=-43, 16-17=-20, 15-16=-20, 15-51=-20, 12-51=-50(F=-30), 12-42=-20

Horz: 2-17=16, 1-2=-22, 2-46=-18, 5-46=-10, 5-9=4, 9-10=7

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

Vert: 1-2=-43, 2-5=-46, 5-49=-40, 9-49=-32, 9-10=-28, 16-17=-20, 15-16=-20, 15-51=-20, 12-51=-50(F=-30), 12-42=-20 Horz: 2-17=-2, 1-2=-7, 2-5=-4, 5-49=10, 9-49=18, 9-10=22

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-60, 2-5=-60, 5-10=-20, 16-17=-20, 15-16=-20, 15-42=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-20, 2-5=-20, 5-10=-60, 16-17=-20, 15-16=-20, 15-42=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Vert: 1-2=-50, 2-5=-50, 5-10=-20, 16-17=-20, 15-16=-20, 15-51=-20, 12-51=-50(F=-30), 12-42=-20

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-20, 2-5=-20, 5-10=-50, 16-17=-20, 15-16=-20, 15-51=-20, 12-51=-50(F=-30), 12-42=-20



Job Truss Truss Type Qty DR HORTON: COLUMBIA: A: MASTER.RT 162516906 3685977 A05 COMMON 5 Job Reference (optional) Builders FirstSource (Apex, NC), Apex, NC - 27523 8.630 s Aug 30 2023 MiTek Industries, Inc. Tue Dec 12 13:18:27 2023 Page 1 ID:fJZOU2ZLpXU3XKYCOPhCD1zhel_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

6-10-13

27-10-13

6-10-13

10-4-4

1 Row at midpt

6-10-13

Structural wood sheathing directly applied.

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

7-14, 5-14

Scale = 1:77.3

42-8-0 0-8-0

42-0-0

7-2-5

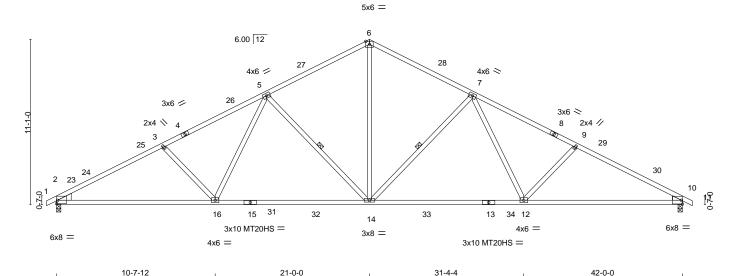


Plate Off	sets (X,Y)	[2:Edge,0-2-12]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (lo	c) I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.39 14-1	6 >999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.69 12-1	4 >731	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.15	I0 n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2	2014	Matrix	c-MS	Wind(LL)	0.09 12-1	4 >999	240	Weight: 221 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

10-4-4

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*

1-4: 2x4 SP No.1, 8-11: 2x4 SP SS

10-7-12

BOT CHORD 2x4 SP No.1 *Except* 13-15: 2x4 SP SS

WEBS 2x4 SP No.3

WEDGE

Left: 2x6 SP No.2, Right: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 10=0-3-8 Max Horz 2=-127(LC 17)

Max Grav 2=2045(LC 1), 10=1768(LC 1)

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

TOP CHORD 2-3=-3543/0, 3-5=-3089/0, 5-6=-2070/129, 6-7=-2069/129, 7-9=-2851/104,

9-10=-3121/104

BOT CHORD 2-16=0/3035, 14-16=0/2358, 12-14=0/2265, 10-12=-1/2707

WEBS 6-14=0/1461, 7-14=-754/142, 7-12=0/547, 9-12=-356/144, 5-14=-890/7, 5-16=0/740, 3-16=-582/0

6-10-13

NOTES-

1) Unbalanced roof live loads have been considered for this design

- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-8-0 to 2-4-0, Interior(1) 2-4-0 to 21-0-0, Exterior(2) 21-0-0 to 25-2-15, Interior(1) 25-2-15 to 42-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

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

Vert: 1-23=-60, 6-26=-60, 6-11=-60, 17-20=-20



December 12,2023

Continued on page 2



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	Ply	DR HORTON; COLUMBIA; A; MASTER.RT				
			'	,	162516906				
3685977	A05	COMMON	5	1					
					Job Reference (optional)				
Builders FirstSource (Apex,	Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Tue Dec 12 13:18:27 2023 Page 2								
	ID:fJZOU2ZLpXU3XKYCOPhCD1zhelRfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f								
LOAD CASE(S) Standard Trapezoidal Loads (plf) Vert: 23=-120-to-26=-70 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-23=-50, 6-26=-50, 6-11=-50, 17-31=-20, 31-32=-50, 32-33=-20, 33-34=-50, 20-34=-20 Trapezoidal Loads (plf) Vert: 23=-110-to-26=-60 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)									

Uniform Loads (plf)

Trapezoidal Loads (plf)

Trapezoidal Loads (plf)

Trapezoidal Loads (plf)

Trapezoidal Loads (plf)

Uniform Loads (plf)

Uniform Loads (plf)

Uniform Loads (plf)

Trapezoidal Loads (plf)

Trapezoidal Loads (plf)

Trapezoidal Loads (plf)

Trapezoidal Loads (plf)

Uniform Loads (plf)

Uniform Loads (plf)

Uniform Loads (plf)

Trapezoidal Loads (plf)

Trapezoidal Loads (plf)

Uniform Loads (plf)

Uniform Loads (plf)

Uniform Loads (plf)

Vert: 23=-80-to-26=-30

Vert: 23=-46-to-26=4

Vert: 23=-93-to-26=-43

Vert: 23=-93-to-26=-43

Vert: 23=-62-to-26=-12

Vert: 23=-51-to-26=-1

Vert: 23=-80-to-26=-30

Vert: 23=-69-to-26=-19

Vert: 23=-35-to-24=-30, 24=-41-to-26=4

Horz: 1-2=-8, 2-6=13, 6-10=-13, 10-11=-8

Horz: 1-2=8, 2-6=13, 6-10=-13, 10-11=8

Horz: 1-2=-21, 2-6=-10, 6-10=21, 10-11=16

Horz: 1-2=-16, 2-6=-21, 6-10=10, 10-11=21

Horz: 1-2=-5, 2-6=-0, 6-10=11, 10-11=16

Horz: 1-2=-16, 2-6=-11, 6-10=0, 10-11=5

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

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

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

Vert: 1-2=-12, 2-23=-33, 6-26=-33, 6-10=-33, 10-11=-28, 17-20=-20

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

Vert: 1-2=-28, 2-23=-33, 6-26=-33, 6-10=-33, 10-11=-12, 17-20=-20

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

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

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

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

Vert: 1-2=-15, 2-23=-20, 6-26=-20, 6-10=-9, 10-11=-4, 17-20=-20

Vert: 1-2=-4, 2-23=-9, 6-26=-9, 6-10=-20, 10-11=-15, 17-20=-20

Vert: 1-2=17, 2-23=22, 6-26=11, 6-10=3, 10-11=-2, 17-20=-12 Horz: 1-2=-29, 2-25=-34, 6-25=-23, 6-10=15, 10-11=10

Vert: 1-2=9, 2-23=-2, 6-26=-2, 6-10=9, 10-11=4, 17-20=-12

Vert: 1-2=4, 2-23=9, 6-26=9, 6-10=-2, 10-11=9, 17-20=-12

Horz: 1-2=-21, 2-27=-26, 6-27=-37, 6-30=26, 10-30=37, 10-11=59

Vert: 1-2=9, 2-23=14, 26-27=14, 6-27=25, 6-30=14, 10-30=25, 10-11=47, 17-20=-12

Vert: 1-2=47, 2-23=25, 6-26=14, 6-28=25, 10-28=14, 10-11=9, 17-20=-12 Horz: 1-2=-59, 2-24=-37, 6-24=-26, 6-28=37, 10-28=26, 10-11=21

Vert: 23=-38-to-25=-17, 25=-27-to-26=1

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

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

Vert: 1-2=-2, 2-23=3, 6-26=3, 6-29=11, 10-29=22, 10-11=17, 17-20=-12

Horz: 1-2=-10, 2-6=-15, 6-29=23, 10-29=34, 10-11=29

Trapezoidal Loads (plf)

Vert: 23=-57-to-26=-7

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

Continued on page 3







I	Job	Truss	Truss Type		Qty	Ply	DR HORTON; COLUMBIA; A; MASTER.RT
							162516906
	3685977	A05	COMMON		5	1	
							Job Reference (optional)
Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Aug 30 2023 MiTek Industries, Inc. Tue Dec 12 13:18:27 2023 Page 3							30 2023 MiTek Industries, Inc. Tue Dec 12 13:18:27 2023 Page 3
				ID:fJZOU:	2ZLpXU3	(KYCOPh(CD1zhelRfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f
		-23=11, 6-26=11, 6-10=3, 10 , 2-6=-23, 6-10=15, 10-11=10					

Vert: 23=-49-to-26=1

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

Uniform Loads (plf)

Vert: 1-2=-2, 2-23=3, 6-26=3, 6-10=11, 10-11=7, 17-20=-12

Horz: 1-2=-10, 2-6=-15, 6-10=23, 10-11=19

Trapezoidal Loads (plf)

Vert: 23=-57-to-26=-7

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

Uniform Loads (plf)

Vert: 1-2=9, 2-23=4, 6-26=-6, 6-10=-15, 10-11=-10, 17-20=-20 Horz: 1-2=-29, 2-25=-24, 6-25=-14, 6-10=5, 10-11=10

Trapezoidal Loads (plf)

Vert: 23=-56-to-25=-34, 25=-44-to-26=-16

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

Uniform Loads (plf)

Vert: 1-2=-10, 2-23=-15, 6-26=-15, 6-29=-6, 10-29=4, 10-11=9, 17-20=-20

Horz: 1-2=-10, 2-6=-5, 6-29=14, 10-29=24, 10-11=29

Trapezoidal Loads (plf)

Vert: 23=-75-to-26=-25

18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-23=-20, 6-26=-20, 6-11=-20, 17-31=-20, 31-32=-60, 32-33=-20, 33-34=-60, 20-34=-20

Trapezoidal Loads (plf)

Vert: 23=-80-to-26=-30

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

Uniform Loads (plf)

Vert: 1-2=-46, 2-23=-50, 6-26=-50, 6-10=-42, 10-11=-38, 17-31=-20, 31-32=-50, 32-33=-20, 33-34=-50, 20-34=-20

Horz: 1-2=-4, 2-6=-0, 6-10=8, 10-11=12

Trapezoidal Loads (plf)

Vert: 23=-110-to-26=-60

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

Uniform Loads (plf)

Vert: 1-2=-38, 2-23=-42, 6-26=-42, 6-10=-50, 10-11=-46, 17-31=-20, 31-32=-50, 32-33=-20, 33-34=-50, 20-34=-20

Horz: 1-2=-12, 2-6=-8, 6-10=0, 10-11=4

Trapezoidal Loads (plf)

Vert: 23=-102-to-26=-52

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

Uniform Loads (plf)

Vert: 1-2=-28, 2-23=-32, 6-26=-40, 6-10=-46, 10-11=-43, 17-31=-20, 31-32=-50, 32-33=-20, 33-34=-50, 20-34=-20

Horz: 1-2=-22, 2-25=-18, 6-25=-10, 6-10=4, 10-11=7

Trapezoidal Loads (plf)

Vert: 23=-92-to-25=-70, 25=-78-to-26=-50

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

Uniform Loads (plf)

Vert: 1-2=-43, 2-23=-46, 6-26=-46, 6-29=-40, 10-29=-32, 10-11=-28, 17-31=-20, 31-32=-50, 32-33=-20, 33-34=-50,

20-34=-20

Horz: 1-2=-7, 2-6=-4, 6-29=10, 10-29=18, 10-11=22

Trapezoidal Loads (plf)

Vert: 23=-106-to-26=-56

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-23=-60, 6-26=-60, 6-11=-20, 17-20=-20

Trapezoidal Loads (plf)

Vert: 23=-120-to-26=-70

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-23=-20, 6-26=-20, 6-11=-60, 17-20=-20

Trapezoidal Loads (plf)

Vert: 23=-80-to-26=-30

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

\/ort: 1-23--

Vert: 1-23=-50, 6-26=-50, 6-11=-20, 17-31=-20, 31-32=-50, 32-33=-20, 33-34=-50, 20-34=-20

Trapezoidal Loads (plf)

Vert: 23=-110-to-26=-60

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-23=-20, 6-26=-20, 6-11=-50, 17-31=-20, 31-32=-50, 32-33=-20, 33-34=-50, 20-34=-20

Trapezoidal Loads (plf)

Vert: 23=-80-to-26=-30



Job Truss Truss Type Qty DR HORTON: COLUMBIA: A: MASTER.RT 162516907 3685977 A05BV SPECIAL Job Reference (optional) Builders FirstSource, Apex, NC 27523

5-0-0

B.630 s Mar 9 2023 MiTek Industries, Inc. Tue Dec 12 14:48:51 2023 Page 1 ID:fJZOU2ZLpXU3XKYCOPhCD1zhel_-hkDWySkh3I0H?MGxl8SpN?MUXHMw8CxsgvNv6oy9ghA -0-8₋0 0-8-0 9-4-9 14-2-3 21-0-0 26-0-0 34-0-0 42-0-0 42-8-0

6-9-13

Scale = 1:82.0 5x6 =

Structural wood sheathing directly applied.

1 Row at midpt

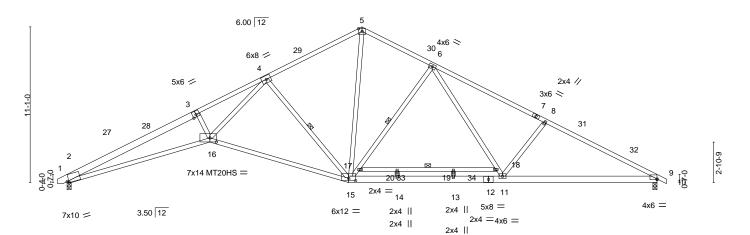
Rigid ceiling directly applied or 10-0-0 oc bracing.

4-15, 6-15, 17-18

8-0-0

0-8-0

8-0-0



	10-2-0 10-2-0	20-0-8 9-10-8	23-6-0 27-6-0 31-0-0 3-5-8 4-0-0 3-6-0	42-0-0 11-0-0		
Plate Offsets (X,Y) [2:0-1-10,Edge], [9:Edge,0-0-9], [15:0-6-0,0-1-14], [16:0-5-8,0-3-8]						
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 0.89	Vert(LL) -0.46 13-14 >999 360	MT20 244/190		
TCDL 10.0	Lumber DOL 1.15	BC 0.99	Vert(CT) -1.05 15-16 >478 240	MT20HS 187/143		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.88	Horz(CT) 0.43 9 n/a n/a			
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.21 16 >999 240	Weight: 256 lb FT = 20%		

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

2x4 SP SS *Except* TOP CHORD

1-3: 2x6 SP DSS, 7-10: 2x4 SP No.2

9-4-9

4-9-10

2x4 SP SS *Except* **BOT CHORD** 12-15,9-12: 2x6 SP No.2

2x4 SP No.3 *Except* **WEBS** 4-16: 2x4 SP No.1

REACTIONS. (lb/size) 2=1709/0-3-8 (min. 0-2-0), 9=1720/0-3-8 (min. 0-2-0)

Max Horz 2=-127(LC 17)

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

TOP CHORD 2-27=-6069/216, 27-28=-5925/230, 3-28=-5910/252, 3-4=-5822/275, 4-29=-2024/217,

5-29=-1922/240, 5-30=-1847/242, 6-30=-1868/218, 6-7=-2769/220, 7-8=-2788/177,

8-31=-2885/204, 31-32=-2968/183, 9-32=-3066/168

BOT CHORD 2-16=-133/5502, 15-16=-53/2945, 14-15=-14/2092, 13-14=-13/2093, 12-13=-13/2093, 11-12=-13/2093, 9-11=-87/2655

WEBS 5-15=-98/1364, 4-15=-1749/161, 4-16=-47/3562, 6-18=0/868, 11-18=0/807, 8-11=-438/154, 15-17=-816/141, 6-17=-763/144

NOTES-

- 1) Unbalanced roof live loads have been considered for this design
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-5-14 to 2-6-2, Interior(1) 2-6-2 to 21-0-0, Exterior(2) 21-0-0 to 25-2-15, Interior(1) 25-2-15 to 42-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) N/A
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building
- 10) 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)

SEAL 036322

December 12,2023

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORF USF 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 overal 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	Ply	DR HORTON; COLUMBIA; A; MASTER.RT	
			_			162516907
3685977	A05BV	SPECIAL	2	1	Job Reference (optional)	

8 630 s Mar 9 2023 MiTek Industries Inc. Tue Dec 12 14:48:51 2023 Page 2 ID:fJZOU2ZLpXU3XKYCOPhCD1zhel_-hkDWySkh3I0H?MGxl8SpN?MUXHMw8CxsgvNv6oy9ghA

LOAD CASE(S)

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

Uniform Loads (plf)

Vert: 1-5=-60, 5-10=-60, 16-21=-20, 15-16=-20, 15-24=-20

2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15. Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-50, 5-10=-50, 16-21=-20, 15-16=-20, 15-24=-20, 33-34=-30(F)

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-5=-20, 5-10=-20, 16-21=-40, 15-16=-40, 15-24=-40, 33-34=-40(F)

4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=47, 2-27=25, 5-27=14, 5-30=25, 9-30=14, 9-10=9, 16-21=-12, 15-16=-12, 15-24=-12

Horz: 1-2=-59, 2-27=-37, 5-27=-26, 5-30=37, 9-30=26, 9-10=21 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=9, 2-29=14, 5-29=25, 5-32=14, 9-32=25, 9-10=47, 16-21=-12, 15-16=-12, 15-24=-12

Horz: 1-2=-21, 2-29=-26, 5-29=-37, 5-32=26, 9-32=37, 9-10=59

6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-12, 2-5=-33, 5-9=-33, 9-10=-28, 16-21=-20, 15-16=-20, 15-24=-20

Horz: 1-2=-8, 2-5=13, 5-9=-13, 9-10=-8

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

Uniform Loads (plf) Vert: 1-2=-28, 2-5=-33, 5-9=-33, 9-10=-12, 16-21=-20, 15-16=-20, 15-24=-20

Horz: 1-2=8, 2-5=13, 5-9=-13, 9-10=8 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=9, 2-5=-2, 5-9=9, 9-10=4, 16-21=-12, 15-16=-12, 15-24=-12

Horz: 1-2=-21, 2-5=-10, 5-9=21, 9-10=16

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=4, 2-5=9, 5-9=-2, 9-10=9, 16-21=-12, 15-16=-12, 15-24=-12

Horz: 1-2=-16, 2-5=-21, 5-9=10, 9-10=21

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

Uniform Loads (plf)

Vert: 1-2=-15, 2-5=-20, 5-9=-9, 9-10=-4, 16-21=-20, 15-16=-20, 15-24=-20

Horz: 1-2=-5, 2-5=-0, 5-9=11, 9-10=16

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-4, 2-5=-9, 5-9=-20, 9-10=-15, 16-21=-20, 15-16=-20, 15-24=-20

Horz: 1-2=-16, 2-5=-11, 5-9=0, 9-10=5

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=17, 2-28=22, 5-28=11, 5-9=3, 9-10=-2, 16-21=-12, 15-16=-12, 15-24=-12

Horz: 1-2=-29, 2-28=-34, 5-28=-23, 5-9=15, 9-10=10

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-2, 2-5=3, 5-31=11, 9-31=22, 9-10=17, 16-21=-12, 15-16=-12, 15-24=-12 Horz: 1-2=-10, 2-5=-15, 5-31=23, 9-31=34, 9-10=29

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=7, 2-5=11, 5-9=3, 9-10=-2, 16-21=-12, 15-16=-12, 15-24=-12

Horz: 1-2=-19, 2-5=-23, 5-9=15, 9-10=10

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-2, 2-5=3, 5-9=11, 9-10=7, 16-21=-12, 15-16=-12, 15-24=-12

Horz: 1-2=-10, 2-5=-15, 5-9=23, 9-10=19 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=9, 2-28=4, 5-28=-6, 5-9=-15, 9-10=-10, 16-21=-20, 15-16=-20, 15-24=-20

Horz: 1-2=-29, 2-28=-24, 5-28=-14, 5-9=5, 9-10=10

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

Uniform Loads (plf)

Vert: 1-2=-10, 2-5=-15, 5-31=-6, 9-31=4, 9-10=9, 16-21=-20, 15-16=-20, 15-24=-20

Horz: 1-2=-10, 2-5=-5, 5-31=14, 9-31=24, 9-10=29

18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Uniform Loads (plf)

Vert: 1-5=-20, 5-10=-20, 16-21=-20, 15-16=-20, 15-24=-20, 33-34=-40(F)

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

Uniform Loads (plf)

Vert: 1-2=-46, 2-5=-50, 5-9=-42, 9-10=-38, 16-21=-20, 15-16=-20, 15-24=-20, 33-34=-30(F) Horz: 1-2=-4, 2-5=-0, 5-9=8, 9-10=12

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

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

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Job	Truss	Truss Type	Qty	Ply	DR HORTON; COLUMBIA; A; MASTER.RT	
3685977	A05BV	SPECIAL	2	1		162516907
					Job Reference (optional)	

8.630 s Mar 9 2023 MiTek Industries, Inc. Tue Dec 12 14:48:51 2023 Page 3 ID:fJZOU2ZLpXU3XKYCOPhCD1zhel_-hkDWySkh3I0H?MGxl8SpN?MUXHMw8CxsgvNv6oy9ghA

LOAD CASE(S)

Uniform Loads (plf)

Vert: 1-2=-38, 2-5=-42, 5-9=-50, 9-10=-46, 16-21=-20, 15-16=-20, 15-24=-20, 33-34=-30(F)

Horz: 1-2=-12, 2-5=-8, 5-9=0, 9-10=4

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

Vert: 1-2=-28, 2-28=-32, 5-28=-40, 5-9=-46, 9-10=-43, 16-21=-20, 15-16=-20, 15-24=-20, 33-34=-30(F)

Horz: 1-2=-22, 2-28=-18, 5-28=-10, 5-9=4, 9-10=7

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

Vert: 1-2=-43, 2-5=-46, 5-31=-40, 9-31=-32, 9-10=-28, 16-21=-20, 15-16=-20, 15-24=-20, 33-34=-30(F)

Horz: 1-2=-7, 2-5=-4, 5-31=10, 9-31=18, 9-10=22

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-5=-60, 5-10=-20, 16-21=-20, 15-16=-20, 15-24=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-20, 5-10=-60, 16-21=-20, 15-16=-20, 15-24=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-50, 5-10=-20, 16-21=-20, 15-16=-20, 15-24=-20, 33-34=-30(F)

26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-20, 5-10=-50, 16-21=-20, 15-16=-20, 15-24=-20, 33-34=-30(F)



Job Truss Truss Type Qty DR HORTON: COLUMBIA: A: MASTER.RT 162516908 3685977 A05V **SPECIAL** 3 Job Reference (optional) Builders FirstSource (Apex, NC), Apex, NC - 27523 8.630 s Aug 30 2023 MiTek Industries, Inc. Tue Dec 12 13:18:30 2023 Page 1

6-9-13

14-2-3

4-9-10

ID:fJZOU2ZLpXU3XKYCOPhCD1zhel_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 42-0-0 42-8-0 0-8-0 26-0-0 5-0-0 8-0-0 8-0-0

42-0-0

11-0-0

Structural wood sheathing directly applied or 2-2-0 oc purlins.

4-13, 6-13

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

1 Row at midpt

Scale = 1:79.4

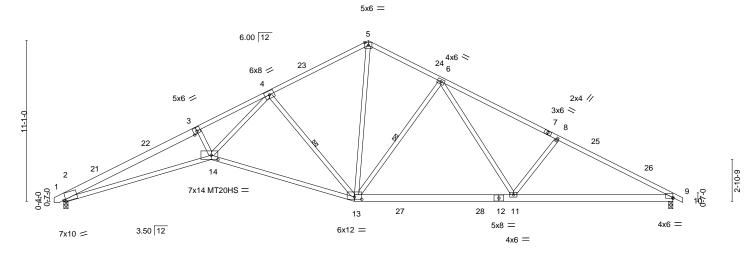


Plate Offsets (X,Y)	[2:0-1-10,Edge], [9:Edge,0-0-9], [13:0-6	-0,0-1-14], [14:0-5-8,0-3-8	<u> </u>	
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.77	DEFL. in (loc) I/defl L/d Vert(LL) -0.42 11-13 >999 360	PLATES GRIP MT20 244/190
TCLL 20.0 TCDL 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.77 BC 0.82	Vert(LL) -0.42 11-13 >999 360 Vert(CT) -1.04 13-14 >483 240	MT20HS 244/190 MT20HS 187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.84	Horz(CT) 0.43 9 n/a n/a	Mainta 040 lb ET 000/
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.21 14 >999 240	Weight: 240 lb FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

31-0-0

10-11-8

LUMBER-

2x4 SP SS *Except* TOP CHORD

1-3: 2x6 SP DSS, 7-10: 2x4 SP No.2

10-2-0

9-4-9

BOT CHORD 2x4 SP SS *Except* 12-13,9-12: 2x6 SP No.2

WEBS 2x4 SP No.3 *Except* 4-14: 2x4 SP No.1

REACTIONS. (size) 2=0-3-8, 9=0-3-8

Max Horz 2=-127(LC 17)

Max Grav 2=1709(LC 1), 9=1720(LC 1)

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

TOP CHORD $2-3=-6070/252,\ 3-4=-5823/275,\ 4-5=-2022/240,\ 5-6=-1866/242,\ 6-8=-2787/219,$

8-9=-3066/203

BOT CHORD 2-14=-133/5503, 13-14=-53/2944, 11-13=-11/2035, 9-11=-86/2654

WEBS 5-13=-98/1362, 4-13=-1750/161, 4-14=-47/3565, 6-11=0/752, 8-11=-438/154,

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-5-14 to 2-6-2, Interior(1) 2-6-2 to 21-0-0, Exterior(2) 21-0-0 to 25-2-15, Interior(1) 25-2-15 to 42-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

9-10-8

- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



December 12,2023



Job Truss Truss Type Qty DR HORTON: COLUMBIA: A: MASTER.RT 162516909 3685977 A06G **GABLE** Job Reference (optional) Builders FirstSource (Apex, NC), Apex, NC - 27523 8.630 s Aug 30 2023 MiTek Industries, Inc. Tue Dec 12 13:18:32 2023 Page 1

ID:fJZOU2ZLpXU3XKYCOPhCD1zhel_-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

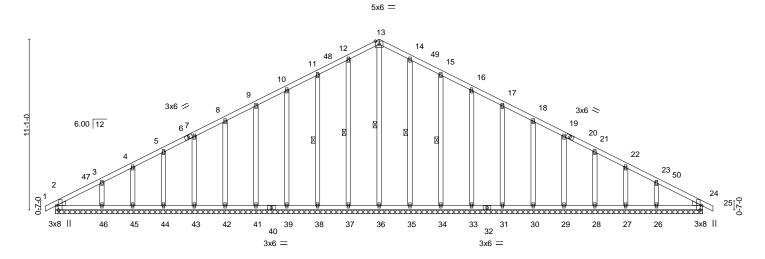
13-36, 12-37, 11-38, 14-35, 15-34

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

1 Row at midpt

43-4-0 0-8-0 21-0-0 21-0-0

Scale = 1:74.8



-	Q-8 ₇ 0					42-8-0						43-4 ₁ 0
(0 ^l -8-b					42-0-0						o <u>'</u> -8-b
Plate Off	sets (X,Y)	[2:0-3-8,Edge], [24:0-3-8,	Edge]									
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	0.00	25	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	25	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.01	24	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-S						Weight: 300 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD OTHERS** 2x4 SP No.3

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

REACTIONS. All bearings 42-0-0.

Max Horz 2=157(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 37, 38, 39, 41, 42, 43, 44, 45, 46, 35, 34, 33, 31, 30, 29, 28,

27, 26, 2

Max Grav All reactions 250 lb or less at joint(s) 24, 36, 37, 38, 39, 41, 42, 43, 44, 45, 46, 35, 34, 33, 31, 30, 29, 28, 27, 26, 2

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 11-12=-95/264, 12-13=-109/299, 13-14=-109/299, 14-15=-95/264

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-0 to 2-4-0, Exterior(2) 2-4-0 to 21-0-0, Corner(3) 21-0-0 to 24-0-0, Exterior(2) 24-0-0 to 42-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 37, 38, 39, 41, 42, 43, 44, 45, 46, 35, 34, 33, 31, 30, 29, 28, 27, 26, 2,
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



December 12,2023



Job Truss Truss Type Qty DR HORTON: COLUMBIA: A: MASTER.RT 162516910 3685977 B01G **GABLE** Job Reference (optional) Builders FirstSource (Apex, NC), Apex, NC - 27523 8.630 s Aug 30 2023 MiTek Industries, Inc. Tue Dec 12 13:18:34 2023 Page 1 ID:fJZOU2ZLpXU3XKYCOPhCD1zhel_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 0-8-0 6-10-0 6-10-0 0-8-0 Scale = 1:32.5 4x6 = 6 8.00 12 5 8 10 40 18 17 16 15 20 14 13 12 19 3x8 II 3x8 II

Plate Off	sets (X,Y)	[12:0-0-0,0-0-0]										
LOADIN	G (nef)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	10	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	11	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.06	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matri	x-R						Weight: 75 lb	FT = 20%

BOT CHORD

LUMBER-BRACING-

2x4 SP No.2 TOP CHORD **BOT CHORD** 2x4 SP No.2 **WEBS** 2x4 SP No.3 **OTHERS** 2x4 SP No.3

(lb) -

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

All bearings 13-8-0. Max Horz 20=125(LC 11)

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

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

REACTIONS.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-7-14 to 2-4-2, Exterior(2) 2-4-2 to 6-10-0, Corner(3) 6-10-0 to 9-10-0, Exterior(2) 9-10-0 to 14-3-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 12, 17, 18, 19, 15, 14, 13.



December 12,2023



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 DR HORTON: COLUMBIA: A: MASTER.RT 162516911 3685977 B02-2PL COMMON Job Reference (optional) Builders FirstSource (Apex, NC), Apex, NC - 27523 8.630 s Aug 30 2023 MiTek Industries, Inc. Tue Dec 12 13:18:37 2023 Page 1 ID:fJZOU2ZLpXU3XKYCOPhCD1zhel_-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f 6-10-0 10-2-12 13-8-0 3-4-11 3-4-11 3-5-4 Scale = 1:32.4 5x6 || 3 8.00 12 2x4 \\ 2x4 // 0-9-5 16 21 17 7 18 19 6 20 10x12 = 10x12 = 7x10 =7x10 = 4-6-14 13-8-0 4-6-14 Plate Offsets (X,Y)--[1:0-0-0,0-3-5], [5:Edge,0-3-5], [6:0-6-0,0-6-0], [7:0-6-0,0-6-0] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/def L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.41 Vert(LL) -0.07 6-7 >999 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.32 Vert(CT) -0.14 6-7 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.85 Horz(CT) 0.01 5 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-MS Wind(LL) 7 >999 240 Weight: 180 lb FT = 20%0.01 BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 2x8 SP DSS BOT CHORD WEBS 2x4 SP No.3

WEDGE

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

REACTIONS. (size) 1=0-3-8, 5=0-3-8

Max Horz 1=98(LC 24)

Max Grav 1=5312(LC 1), 5=5644(LC 1)

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

TOP CHORD 1-2=-6992/0, 2-3=-6885/0, 3-4=-6947/0, 4-5=-7052/0

BOT CHORD 1-7=0/5736, 6-7=0/4028, 5-6=0/5790

WEBS 3-6=0/4118, 3-7=0/3999

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1644 lb down at 2-0-12, 1644 lb down at 4-0-12, 1644 lb down at 6-0-12, 1644 lb down at 8-0-12, and 1644 lb down at 10-0-12, and 1644 lb down at 12-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Vert: 1-3=-60, 3-5=-60, 8-11=-20

Concentrated Loads (lb) Vert: 16=-1644(F) 17=-1644(F) 18=-1644(F) 19=-1644(F) 20=-1644(F) 21=-1644(F)



Structural wood sheathing directly applied or 4-5-9 oc purlins.

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

December 12,2023



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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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)



ı	Job	Truss	Truss Type	Qty	Ply	DR HORTON; COLUMBIA; A; MASTER.RT
						162516912
	3685977	P01G	GABLE	1	1	
						Job Reference (optional)
	Builders FirstSource (Apex, I	NC), Apex, NC - 27523,		8.	630 s Aug	30 2023 MiTek Industries, Inc. Tue Dec 12 13:18:38 2023 Page 1

ID:fJZOU2ZLpXU3XKYCOPhCD1zhel_-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-8-0 4-0-0

Scale = 1:12.2

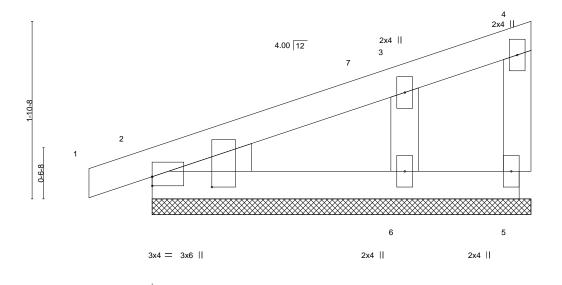


Plate Off	sets (X,Y)	[2:0-0-0,0-1-2], [2:0-1-5,0)-7-9]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.ó	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.00	ìí	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matri	x-P						Weight: 18 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 **OTHERS** 2x4 SP No.3

WEDGE Left: 2x4 SP No.3

REACTIONS. (size) 2=4-0-0, 5=4-0-0, 6=4-0-0

Max Horz 2=55(LC 9)

Max Uplift 2=-27(LC 8), 5=-5(LC 11), 6=-38(LC 12) Max Grav 2=134(LC 1), 5=7(LC 1), 6=208(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-8-0 to 2-4-0, Interior(1) 2-4-0 to 3-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5, 6.



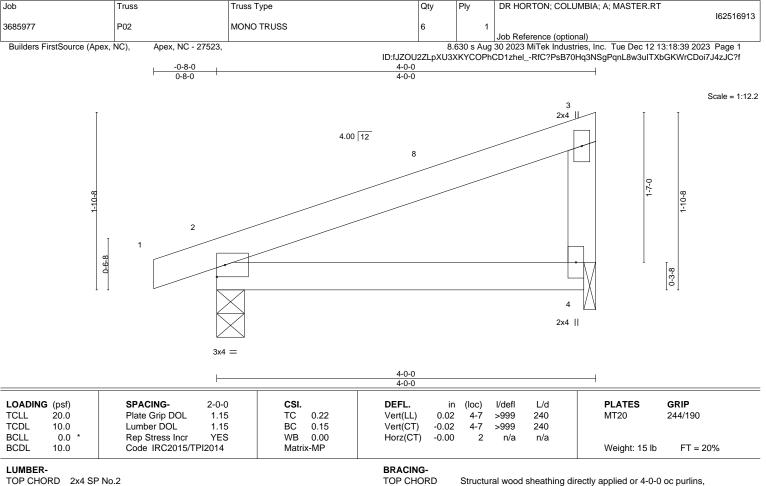
Structural wood sheathing directly applied or 4-0-0 oc purlins,

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

except end verticals.

December 12,2023





BOT CHORD

except end verticals.

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

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

WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 4=0-1-8

Max Horz 2=53(LC 8) Max Uplift 2=-63(LC 8), 4=-57(LC 8)

Max Grav 2=198(LC 1), 4=151(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-8-0 to 2-4-0, Interior(1) 2-4-0 to 3-10-4 zone; cantilever left and right exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



December 12,2023





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)



ob	Truss	Truss Type	Qty	Ply	DR HORTON; COLUM	IBIA; A; MASTER.RT	I62516914
685977	P03	MONO TRUSS	3	1			102310314
Builders FirstSource (Apex,	NC), Apex, NC - 27523,				Job Reference (optiona 30 2023 MiTek Industrie	s, Inc. Tue Dec 12 13	
	-0-8-0		ID:fJZOU2ZLpX 6-0-0	J3XKYCOPh	CD1zhelRfC?PsB70Ho	q3NSgPqnL8w3ulTXb	GKWrCDoi7J4zJC?f
	0-8-0		6-0-0				
						0	Scale: 3/4"=1'
2-6-8		4.00	12			3224	2-6-8
8-9-0	1 2					4 4 2x4	8.60
	3x4 =						
LOADING (psf) FCLL 20.0 FCDL 10.0 BCLL 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr YES	TC 0.56 BC 0.38	Vert(CT) -0		l/defl L/d >584 240 >589 240 n/a n/a	PLATES MT20	GRIP 244/190
3CDL 10.0	Code IRC2015/TPI2014	Matrix-MP				Weight: 22 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 **WEBS**

REACTIONS.

Max Horz 2=75(LC 8) Max Uplift 2=-84(LC 8), 4=-87(LC 8) Max Grav 2=276(LC 1), 4=232(LC 1)

(size) 2=0-3-8, 4=0-1-8

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-8-0 to 2-4-0, Interior(1) 2-4-0 to 5-10-4 zone; cantilever left and right exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) 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 6-0-0 oc purlins,

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

except end verticals.

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/TPII 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 DR HORTON: COLUMBIA: A: MASTER.RT 162516915 3685977 P04G **GABLE** Job Reference (optional) 8.630 s Aug 30 2023 MiTek Industries, Inc. Tue Dec 12 13:18:41 2023 Page 1

Builders FirstSource (Apex, NC),

Apex, NC - 27523

ID:fJZOU2ZLpXU3XKYCOPhCD1zhel_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

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

except end verticals.

6-0-0 0-8-0 6-0-0

Scale = 1:16.5

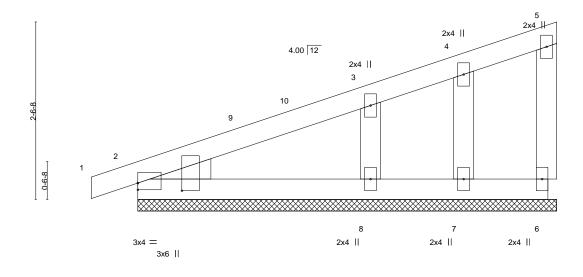


Plate Offsets (X,Y)	[2:0-0-0,0-1-2], [2:0-1-5,0-7-9]			
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.13	DEFL. in (loc) I/defl L/d Vert(LL) -0.00 1 n/r 120	PLATES GRIP MT20 244/190
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.09 WB 0.04	Vert(CT) 0.00 1 n/r 120 Horz(CT) 0.00 6 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	11012(01) 0.00 6 11/8 11/8	Weight: 27 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 **OTHERS** 2x4 SP No.3

WEDGE Left: 2x4 SP No.3

REACTIONS. All bearings 6-0-0.

Max Horz 2=80(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 7, 8

Max Grav All reactions 250 lb or less at joint(s) 2, 6, 7 except 8=268(LC 1)

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

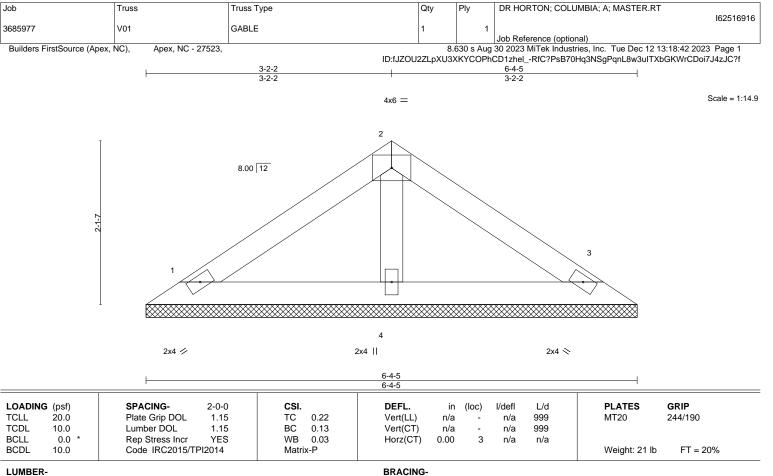
NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-8-0 to 2-4-0, Interior(1) 2-4-0 to 5-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 7, 8.



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TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.3 BOT CHORD 2x4 SP No.3

OTHERS 2x4 SP No.3

REACTIONS. 1=6-4-5, 3=6-4-5, 4=6-4-5 (size) Max Horz 1=-39(LC 8)

Max Uplift 1=-18(LC 12), 3=-23(LC 13)

Max Grav 1=116(LC 1), 3=116(LC 1), 4=200(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=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) 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.

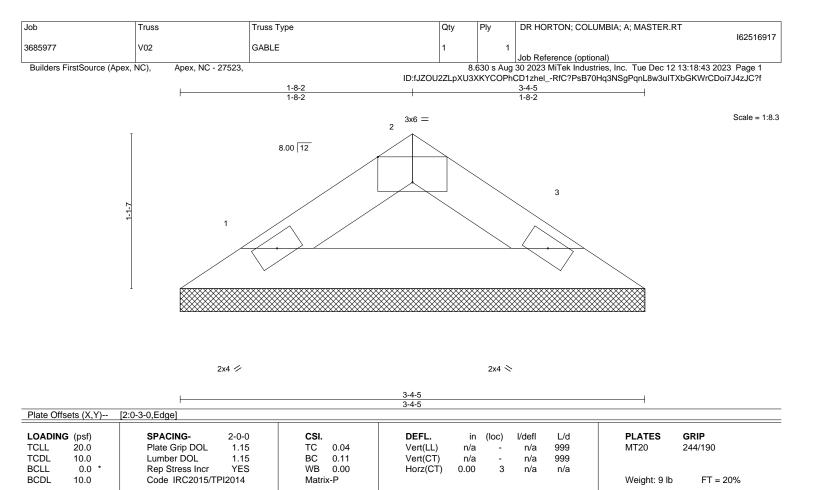


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)





LUMBER-

TOP CHORD 2x4 SP No.3 2x4 SP No.3 BOT CHORD

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 3-4-5 oc purlins.

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

REACTIONS. 1=3-4-5, 3=3-4-5 (size)

Max Horz 1=-17(LC 8) Max Uplift 1=-5(LC 12), 3=-5(LC 13)

Max Grav 1=96(LC 1), 3=96(LC 1)

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

NOTES-

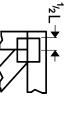
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



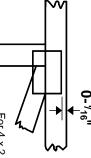


Symbols

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- $\frac{1}{16}$ 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

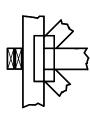
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



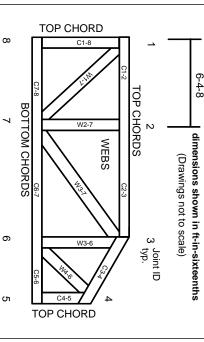
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur Min size shown is for crushing only.

Industry Standards: ANSI/TPI1: National Design Specification for Metal

DSB-22:

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



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

m 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.

'n

- 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.
- 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.