

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 20090080

19 Mitchell Manor - Cedar El. A

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Carter Components (Sanford, NC)).

Pages or sheets covered by this seal: E14880743 thru E14880758

My license renewal date for the state of North Carolina is December 31, 2020.

North Carolina COA: C-0844



September 18,2020

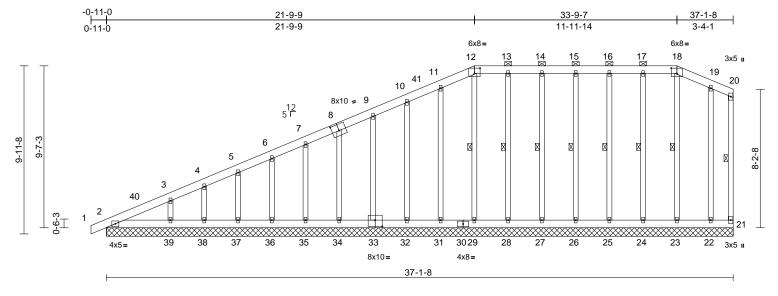
Strzyzewski, Marvin

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

Job	Truss	Truss Type	Qty	Ply	19 Mitchell Manor - Cedar El. A	
20090080	A01	Piggyback Base Supported Gable	2	1	Job Reference (optional)	E14880743

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Fri Sep 18 08:28:29 ID:uGc0RRDCV2hFr1PxTM5l4SztRKo-Mock Me

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Scale = 1:68.2

Plate Offsets (X, Y):	[8:0-5-0,0-4-8], [12:0-4-0,0-3-13], [18:0-4-0,0-3-13], [33:0-5-0,0-	4-8]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.41	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	21	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0										Weight: 355 lb	FT = 20%

L	U	N	11	В	E	R	

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

35-7,36-6,37-5,38-4,39-3:2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 12-18.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

WFBS 20-21, 15-26, 14-27, 1 Row at midpt 13-28, 12-29, 16-25,

17-24, 18-23

REACTIONS (size) 2=37-1-8, 21=37-1-8, 22=37-1-8, 23=37-1-8, 24=37-1-8, 25=37-1-8, 26=37-1-8, 27=37-1-8, 28=37-1-8, 29=37-1-8, 31=37-1-8, 32=37-1-8,

33=37-1-8, 34=37-1-8, 35=37-1-8,

36=37-1-8, 37=37-1-8, 38=37-1-8, 39=37-1-8

Max Horiz 2=169 (LC 6)

Max Uplift 2=-126 (LC 6), 21=-75 (LC 6),

22=-214 (LC 6), 23=-21 (LC 6),

24=-93 (LC 6), 25=-97 (LC 6), 26=-97 (LC 6), 27=-98 (LC 6), 28=-86 (LC 6), 29=-49 (LC 6), 31=-176 (LC 6), 32=-136 (LC 6), 33=-122 (LC 6), 34=-122 (LC 6),

35=-116 (LC 6), 36=-121 (LC 6), 37=-130 (LC 6), 38=-75 (LC 6),

39=-248 (LC 6)

Max Grav 2=190 (LC 2), 21=55 (LC 14), 22=186 (LC 14), 23=158 (LC 2), 24=166 (LC 1), 25=164 (LC 13), 26=163 (LC 13), 27=164 (LC 13), 28=166 (LC 1), 29=151 (LC 2), 31=172 (LC 14), 32=171 (LC 14), 33=175 (LC 14), 34=174 (LC 14), 35=166 (LC 14), 36=171 (LC 14),

37=183 (LC 14), 38=115 (LC 14), 39=319 (LC 14) (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=0/26, 2-40=-236/0, 3-40=-236/42,

3-4=-146/8, 4-5=-114/20, 5-6=-71/18,

6-7=-88/18, 7-8=-102/27, 8-9=-118/71, 9-10=-133/116, 10-41=-150/169,

11-41=-142/169, 11-12=-165/237, 12-13=-153/254, 13-14=-153/255,

14-15=-153/255, 15-16=-153/255, 16-17=-153/255, 17-18=-153/254, 18-19=-167/239, 19-20=-178/210, 20-21=-152/199

BOT CHORD 2-39=-127/141, 38-39=-127/141,

37-38=-127/141, 36-37=-127/141, 35-36=-127/141, 34-35=-127/141, 33-34=-128/143, 32-33=-130/145,

31-32=-130/145, 30-31=-130/145, 29-30=-130/145, 28-29=-130/145, 27-28=-130/145, 26-27=-130/145,

25-26=-130/145, 24-25=-130/145, 23-24=-130/145, 22-23=-130/145,

21-22=-130/145

WEBS 15-26=-122/96, 14-27=-124/98, 13-28=-126/86, 12-29=-112/49,

11-31=-131/176, 10-32=-133/136, 9-33=-135/122, 8-34=-132/122, 7-35=-126/115. 6-36=-132/122.

5-37=-137/127, 4-38=-97/83, 3-39=-230/231, 16-25=-124/98, 17-24=-126/88

18-23=-117/41, 19-22=-101/74

NOTES

- 1) This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=0.0psf; BCDL=0.0psf; h=0ft; Cat. II; Exp C; Enclosed; C-C Corner (3) -0-11-0 to 2-1-0, Exterior (2) 2-1-0 to 18-9-9, Corner (3) 18-9-9 to 24-9-9, Exterior (2) 24-9-9 to 30-9-7, Corner (3) 30-9-7 to 36-11-12; cantilever left and right exposed; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.00



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ontinued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

FORCES

Design valid for use only with MiTek's 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/PTI Quality Criteria, DSB-89 and BCSI Building Component Settle Management and Component Settle Managemen fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSVTP/1 Qu Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	19 Mitchell Manor - Cedar El. A	
20090080	A01	Piggyback Base Supported Gable	2	1	Job Reference (optional)	E14880743

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Fri Sep 18 08:28:29 ID:uGc0RRDCV2hFr1PxTM5l4SztRKo-Mock Me

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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.

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.00); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp C; Partially Exp.; Ct=1.10, Lu=0-0-0
- This truss has been checked for uniform snow load only, except as noted.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 2, 75 lb uplift at joint 21, 97 lb uplift at joint 26, 98 lb uplift at joint 27, 86 lb uplift at joint 28, 49 lb uplift at joint 29, 176 lb uplift at joint 31, 136 lb uplift at joint 32, 122 lb uplift at joint 33, 122 lb uplift at joint 34, 116 lb uplift at joint 35, 121 lb uplift at joint 36, 130 lb uplift at joint 37, 75 lb uplift at joint 38, 248 lb uplift at joint 39, 97 lb uplift at joint 25, 93 lb uplift at joint 24, 21 lb uplift at joint 23 and 214 lb uplift at joint 22.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

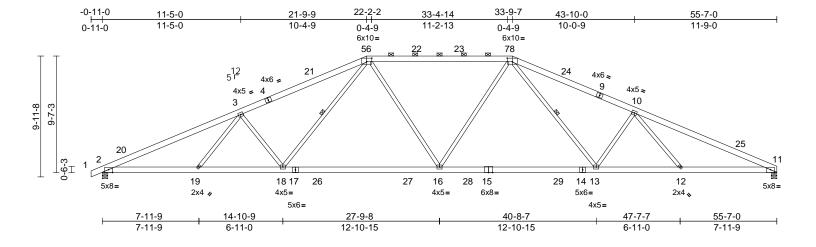
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	19 Mitchell Manor - Cedar El. A	
20090080	A02	Piggyback Base	8	1	Job Reference (optional)	E14880744

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Fri Sep 18 08:28:32 ID:o0fDWIX0Xkl8GNVeAz0YJkztRHp-Mock Me

Page: 1



Scale = 1:94.9

Plate Offsets (X, Y): [2:0-4-0,Edge], [5:0-5-0,0-3-7], [7:0-5-0,0-3-7], [11:0-4-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.40	13-16	>999	240	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.75	13-16	>884	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.18	11	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0										Weight: 369 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E *Except* 4-5,8-9:2x6 SP

No.2

BOT CHORD 2x6 SP 2400F 2.0E *Except* 14-11,15-14:2x6

SP No.2

WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-9-9 oc purlins, except 2-0-0 oc purlins (4-8-3 max.): 5-8.

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing.

WFBS 5-18, 8-13 1 Row at midpt

REACTIONS (size) 2=0-5-8, 11=0-5-8

Max Horiz 2=21 (LC 6)

Max Uplift 2=-1254 (LC 6), 11=-1173 (LC 6)

Max Grav 2=2556 (LC 14), 11=2507 (LC 14) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/27, 2-20=-5538/2463,

3-20=-5440/2463, 3-4=-5013/2331,

4-21=-4908/2331, 5-21=-4895/2331,

5-6=-3863/1957, 6-22=-4016/1950,

22-23=-4016/1950, 7-23=-4016/1950, 7-8=-3861/1957, 8-24=-4922/2358,

9-24=-4930/2358, 9-10=-5034/2358

10-25=-5415/2461, 11-25=-5491/2461

BOT CHORD 2-19=-2166/4971, 18-19=-2150/4877,

17-18=-1568/3721, 17-26=-1568/3721, 26-27=-1568/3721, 16-27=-1568/3721,

16-28=-1568/3719, 15-28=-1568/3719,

15-29=-1568/3719, 14-29=-1568/3719,

13-14=-1568/3719, 12-13=-2153/4857,

11-12=-2168/4948

WEBS

3-19=-27/335, 3-18=-759/487,

5-18=-492/1179, 6-16=-2/378, 7-16=-1/378,

8-13=-526/1213, 10-13=-757/499,

10-12=-24/344

NOTES

- This truss has been checked for uniform roof live load 1) only, except as noted.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=0.0psf; BCDL=0.0psf; h=0ft; Cat. II; Exp C; Enclosed; C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 17-6-10, Exterior (2) 17-6-10 to 26-0-7, Interior (1) 26-0-7 to 29-6-9, Exterior (2) 29-6-9 to 38-0-6, Interior (1) 38-0-6 to 52-4-4, Exterior (2) 52-4-4 to 55-4-4; cantilever left and right exposed; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.00
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.00); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp C; Partially Exp.; Ct=1.10, Lu=0-0-0
- This truss has been checked for uniform snow load only. except as noted.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1254 lb uplift at joint 2 and 1173 lb uplift at joint 11.

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

LOAD CASE(S) Standard



September 18,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

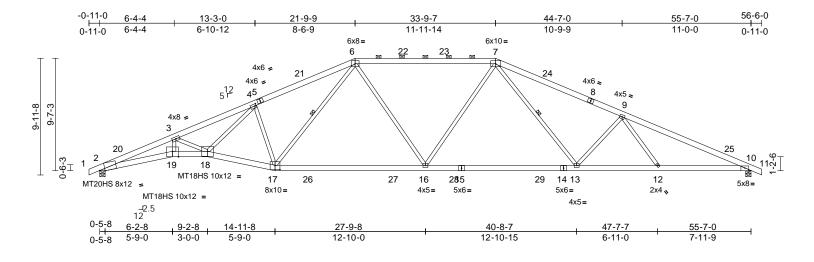
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qu Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	19 Mitchell Manor - Cedar El. A	
20090080	A03	Piggyback Base	1	1	Job Reference (optional)	E14880745

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Fri Sep 18 08:28:32 ID:3mlqnhm4aDPN8t7J32uGMCztSSO-Mock Me

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Scale = 1:98.3

Plate Offsets (X, Y): [2:0-5-6,Edge], [4:0-1-4,0-2-0], [10:0-4-0,Edge], [17:0-5-0,0-4-4], [19:0-6-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.57	Vert(LL)	-0.47	16-17	>999	240	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.25	BC	0.96	Vert(CT)	-0.93	16-17	>712	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.35	10	n/a	n/a	MT18HS	244/190
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0										Weight: 377 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP 2400F 2 0F **BOT CHORD**

2x6 SP 2400F 2.0E *Except*

18-17,14-10,15-14:2x6 SP No.2 WFBS 2x4 SP No.2 *Except* 19-3,18-3:2x4 SP No.3

BRACING

TOP CHORD

Structural wood sheathing directly applied or

3-1-3 oc purlins, except

2-0-0 oc purlins (4-5-14 max.): 6-7. **BOT CHORD** Rigid ceiling directly applied or 2-2-0 oc

bracing.

WEBS 1 Row at midpt 6-17, 7-13 REACTIONS 2=0-5-8, 10=0-5-8 (size)

Max Horiz 2=-1 (LC 6)

Max Uplift 2=-1252 (LC 6), 10=-1252 (LC 6)

Max Grav 2=2551 (LC 14), 10=2551 (LC 14)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/24, 2-20=-9903/4393,

> 3-20=-9836/4393, 3-4=-7571/3418, 4-5=-4974/2353, 5-21=-4966/2353,

6-21=-4891/2353, 6-22=-4009/1941, 22-23=-4009/1941, 7-23=-4009/1941, 7-24=-4858/2308, 8-24=-4873/2308,

8-9=-4984/2308, 9-25=-5449/2467,

10-25=-5540/2467, 10-11=0/27

BOT CHORD 2-19=-3993/9155, 18-19=-3841/8786,

17-18=-2165/5047, 17-26=-1537/3698,

26-27=-1537/3698, 16-27=-1537/3698, 16-28=-1540/3709, 15-28=-1540/3709,

15-29=-1540/3709, 14-29=-1540/3709,

13-14=-1540/3709, 12-13=-2145/4906,

10-12=-2154/4983

WEBS

3-19=-750/1816, 3-18=-2104/969

4-18=-1267/2912, 4-17=-1778/901,

6-17=-531/1201, 6-16=-3/401, 7-16=0/382,

7-13=-475/1152, 9-13=-779/495,

9-12=-16/322

NOTES

- This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=0.0psf; BCDL=0.0psf; h=0ft; Cat. II; Exp C; Enclosed; C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 17-6-10, Exterior (2) 17-6-10 to 26-0-7, Interior (1) 26-0-7 to 29-6-9, Exterior (2) 29-6-9 to 38-0-6, Interior (1) 38-0-6 to 53-6-0, Exterior (2) 53-6-0 to 56-6-0; cantilever left and right exposed; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.00
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.00); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp C; Partially Exp.; Ct=1.10, Lu=0-0-0
- This truss has been checked for uniform snow load only, except as noted.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

- 10) 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1252 lb uplift at joint 2 and 1252 lb uplift at joint 10.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



September 18,2020



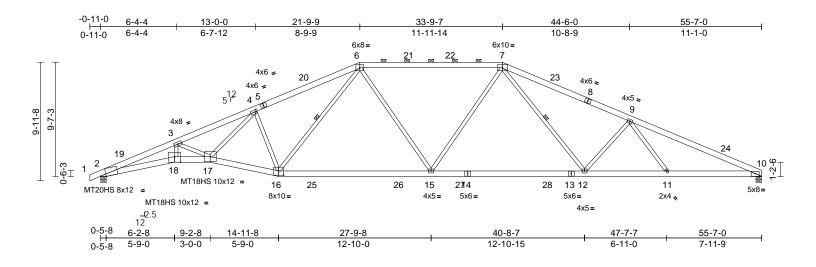
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qu Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	19 Mitchell Manor - Cedar El. A	
20090080	A04	Piggyback Base	1	1	Job Reference (optional)	E14880746

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Fri Sep 18 08:28:33 ID:x42BlhDvduB_ii1cH1ZAvDztSRo-Mock Me

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Scale = 1:96.9

Plate Offsets (X, Y): [2:0-5-6,Edge], [4:0-1-4,0-2-0], [10:0-4-0,Edge], [16:0-5-0,0-4-4], [18:0-6-0,Edge]

					-		-				1	-
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.48	15-16	>999	240	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.25	BC	0.96	Vert(CT)	-0.95	15-16	>698	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.34	10	n/a	n/a	MT18HS	244/190
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S		1						
BCDL	10.0	1		1		l					Weight: 375 lb	FT = 20%

LUMBER

2x6 SP 2400F 2.0E *Except* 5-6:2x6 SP TOP CHORD

No.2

BOT CHORD 2x6 SP 2400F 2.0E *Except* 17-16,13-10,14-13:2x6 SP No.2

WEBS 2x4 SP No.2 *Except* 18-3,17-3:2x4 SP No.3

BRACING

Structural wood sheathing directly applied or TOP CHORD

2-11-13 oc purlins, except

2-0-0 oc purlins (4-5-8 max.): 6-7. **BOT CHORD** Rigid ceiling directly applied or 2-2-0 oc

bracing.

WFBS 6-16, 7-12 1 Row at midpt

REACTIONS (size) 2=0-5-8, 10=0-5-8

Max Horiz 2=19 (LC 6)

Max Uplift 2=-1254 (LC 6), 10=-1173 (LC 6)

Max Grav 2=2551 (LC 14), 10=2503 (LC 14) (lb) - Maximum Compression/Maximum

FORCES

Tension

TOP CHORD 1-2=0/24, 2-19=-9886/4407, 3-19=-9817/4407. 3-4=-7578/3440.

4-5=-4973/2354, 5-20=-4960/2354,

6-20=-4885/2354, 6-21=-4010/1946

21-22=-4010/1946, 7-22=-4010/1946,

7-23=-4869/2329, 8-23=-4883/2329,

8-9=-4993/2329, 9-24=-5446/2485,

10-24=-5515/2485

BOT CHORD 2-18=-4027/9134, 17-18=-3873/8766,

16-17=-2238/5134, 16-25=-1561/3694,

25-26=-1561/3694, 15-26=-1561/3694,

15-27=-1567/3708, 14-27=-1567/3708,

14-28=-1567/3708, 13-28=-1567/3708, 12-13=-1567/3708, 11-12=-2186/4902,

10-11=-2195/4978

WEBS

3-18=-757/1812, 3-17=-2068/953,

4-17=-1256/2865, 4-16=-1822/930,

6-16=-528/1195, 6-15=-6/402, 7-15=0/381,

7-12=-493/1163, 9-12=-780/508,

9-11=-16/328

NOTES

This truss has been checked for uniform roof live load only, except as noted.

Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=0.0psf; BCDL=0.0psf; h=0ft; Cat. II; Exp C; Enclosed; C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 17-6-10, Exterior (2) 17-6-10 to 26-0-7, Interior (1) 26-0-7 to 29-6-9, Exterior (2) 29-6-9 to 38-0-6, Interior (1) 38-0-6 to 52-4-4, Exterior (2) 52-4-4 to 55-4-4; cantilever left and right exposed; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.00

TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.00); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp C; Partially Exp.; Ct=1.10, Lu=0-0-0

This truss has been checked for uniform snow load only, except as noted.

This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

Provide adequate drainage to prevent water ponding.

All plates are MT20 plates unless otherwise indicated.

This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

10) 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.

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1254 lb uplift at joint 2 and 1173 lb uplift at joint 10.

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

LOAD CASE(S) Standard



September 18,2020



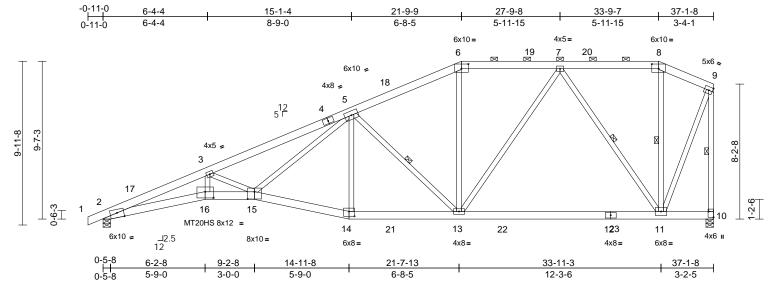
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 in-juny and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type Qty Ply		Ply	19 Mitchell Manor - Cedar El. A	
20090080	A05	Piggyback Base	5	1	Job Reference (optional)	E14880747

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Fri Sep 18 08:28:33 ID:9RPFRqApMp5GHwo3zN?ledztRIG-Mock Me

Page: 1



Scale = 1:70.1

Plate Offsets (X, Y): [2:0-5-0,Edge], [6:0-5-0,0-3-7], [8:0-5-0,0-3-7], [10:Edge,0-3-8], [14:0-4-0,0-3-8], [15:0-5-0,0-5-4], [16:0-6-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.71	Vert(LL)	-0.26	11-13	>999	240	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.25	BC	0.98	Vert(CT)	-0.52	15	>848	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.21	10	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0										Weight: 301 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.2 *Except* 16-3,15-3:2x4 SP No.3

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or 2-9-0 oc purlins, except end verticals, and

2-0-0 oc purlins (5-5-2 max.): 6-8. Rigid ceiling directly applied or 2-2-0 oc

bracing.

WFBS 5-13, 7-11, 8-11, 9-10 1 Row at midpt

REACTIONS (size) 2=0-5-8, 10=0-5-8

Max Horiz 2=121 (LC 7)

Max Uplift 2=-856 (LC 6), 10=-836 (LC 6)

Max Grav 2=1679 (LC 14), 10=1686 (LC 14)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/24, 2-17=-6159/2781,

3-17=-6111/2781, 3-4=-4425/2023, 4-5=-4291/2023, 5-18=-2021/1005,

6-18=-1941/1005, 6-19=-1799/983, 7-19=-1798/983, 7-20=-678/447,

8-20=-678/447, 8-9=-760/455, 9-10=-1827/870

BOT CHORD 2-16=-2550/5595, 15-16=-2452/5363,

14-15=-1030/2358, 14-21=-1014/2309, 13-21=-1014/2309, 13-22=-457/1163, 12-22=-457/1163, 12-23=-457/1163,

11-23=-457/1163, 10-11=-128/142 3-16=-482/1145, 3-15=-1663/831,

WEBS 5-15=-935/2104. 5-14=-340/202.

5-13=-996/538. 6-13=-120/425. 7-13=-303/759, 7-11=-1250/660,

8-11=-69/73, 9-11=-635/1543

NOTES

This truss has been checked for uniform roof live load only, except as noted.

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=0.0psf; BCDL=0.0psf; h=0ft; Cat. II; Exp C; Enclosed; C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 17-6-10, Exterior (2) 17-6-10 to 26-0-7, Interior (1) 26-0-7 to 29-6-9, Exterior (2) 29-6-9 to 36-11-12; cantilever left and right exposed; end vertical right exposed; Lumber DOL=1.60 plate grip DOI = 1.00
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.00); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp C; Partially Exp.; Ct=1.10, Lu=0-0-0
- This truss has been checked for uniform snow load only, except as noted.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 836 lb uplift at joint 10 and 856 lb uplift at joint 2.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



September 18,2020

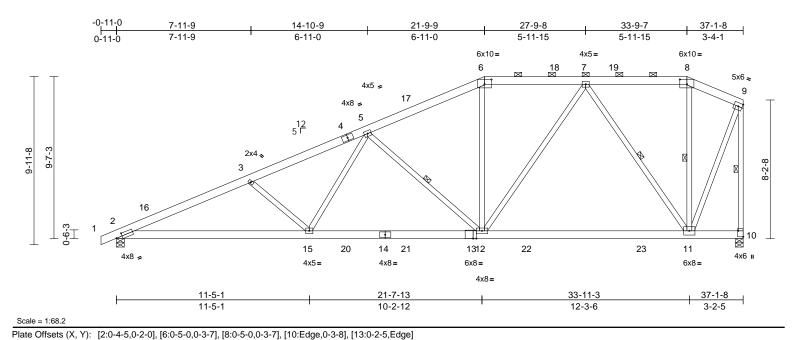
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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 fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qu Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	19 Mitchell Manor - Cedar El. A	
20090080	A06	Piggyback Base	5	1	Job Reference (optional)	14880748

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Fri Sep 18 08:28:33 ID:qxOPsJ54g0GmLnXSV9s3qPztSQg-Mock Me



Snow (Pf/Pg) TCDL **BCLL**

BCDL

Loading

TCLL (roof)

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

WEBS 2x4 SP No.2 *Except* 15-3:2x4 SP No.3

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or 3-7-10 oc purlins, except end verticals, and

(psf)

20.0

10.0

0.0

10.0

20.4/20.0

2-0-0 oc purlins (5-4-15 max.): 6-8. Rigid ceiling directly applied or 6-3-15 oc

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

2-0-0

1.00

1.25

YES

IRC2015/TPI2014

bracing. WFBS 5-12, 7-11, 8-11, 9-10 1 Row at midpt

REACTIONS (size) 2=0-5-8, 10=0-5-8

Max Horiz 2=122 (LC 7) Max Uplift 2=-856 (LC 6), 10=-836 (LC 6) Max Grav 2=1697 (LC 14), 10=1696 (LC 14)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/27, 2-16=-3438/1530,

3-16=-3387/1530. 3-4=-3103/1400. 4-5=-2980/1400. 5-17=-2037/999. 6-17=-1964/999, 6-18=-1824/986, 7-18=-1823/986, 7-19=-680/447, 8-19=-680/447, 8-9=-762/455,

9-10=-1831/869

BOT CHORD 2-15=-1352/2998, 15-20=-1008/2320,

14-20=-1008/2320, 14-21=-1008/2320, 13-21=-1008/2320, 12-13=-1008/2320, 12-22=-457/1173, 22-23=-457/1173, 11-23=-457/1173, 10-11=-128/142

WEBS 3-15=-471/307, 5-15=-238/677, 5-12=-955/514. 6-12=-94/389.

7-12=-309/785 7-11=-1265/659 8-11=-71/71, 9-11=-635/1547

NOTES

1) This truss has been checked for uniform roof live load only, except as noted.

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=0.0psf; BCDL=0.0psf; h=0ft; Cat. II; Exp C; Enclosed; C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 17-6-10, Exterior (2) 17-6-10 to 26-0-7, Interior (1) 26-0-7 to 29-6-9, Exterior (2) 29-6-9 to 36-11-12; cantilever left and right exposed; end vertical right exposed; Lumber DOL=1.60 plate grip DOI = 1.00

DEFL

Vert(LL)

Vert(CT)

Horz(CT)

0.71

0.75

0.74

in

-0.21

-0.39

0.07

(loc)

11-12

11-12

10

I/defI

>999

>999

n/a

L/d

240

180

PLATES

Weight: 291 lb

MT20

GRIP

244/190

FT = 20%

CSI

TC

BC

WB

Matrix-S

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.00); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp C; Partially Exp.; Ct=1.10, Lu=0-0-0
- This truss has been checked for uniform snow load only, except as noted.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 856 lb uplift at joint 2 and 836 lb uplift at joint 10.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

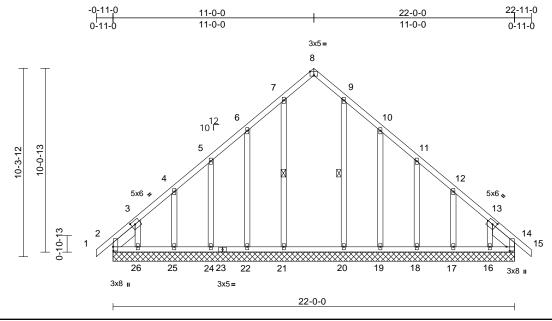
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qu Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



I	Job	Truss Type Qty Ply		19 Mitchell Manor - Cedar El. A			
	20090080	B01	Common Supported Gable	1	1	Job Reference (optional)	E14880749

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Fri Sep 18 08:28:34 ID:50xk94a4umwDvOYfbacF9HztRJ1-Mock Me

Page: 1



Scale = 1:63.1

Plate Offsets (X, Y): [2:0-2-12,0-0-2], [3:0-2-8,0-2-4], [8:0-2-8,Edge], [13:0-2-8,0-2-4], [14:0-2-12,0-2-2]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	14	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0										Weight: 159 lb	FT = 20%

LUMBER

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

21-7,20-9,22-6,19-10:2x4 SP No.2 SLIDER Left 2x6 SP No.2 -- 1-8-10, Right 2x6 SP

No.2 -- 1-8-10

BRACING TOP CHORD

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

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

WFBS 7-21, 9-20 1 Row at midpt

REACTIONS (size) 2=22-0-0, 14=22-0-0, 16=22-0-0, 17=22-0-0, 18=22-0-0, 19=22-0-0,

20=22-0-0, 21=22-0-0, 22=22-0-0, 24=22-0-0, 25=22-0-0, 26=22-0-0

Max Uplift 2=-258 (LC 7), 14=-258 (LC 7), 16=-246 (LC 6), 17=-153 (LC 6),

18=-144 (LC 6), 19=-173 (LC 6), 20=-87 (LC 6), 21=-87 (LC 6), 22=-173 (LC 6), 24=-144 (LC 6)

25=-153 (LC 6), 26=-246 (LC 6) Max Grav 2=255 (LC 6), 14=255 (LC 6), 16=297 (LC 7), 17=235 (LC 11), 18=236 (LC 11), 19=224 (LC 11),

20=276 (LC 11), 21=276 (LC 11), 22=224 (LC 11), 24=236 (LC 11), 25=235 (LC 11), 26=297 (LC 7)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/16, 2-3=-444/376, 3-4=-272/220, 4-5=-173/138, 5-6=-98/61, 6-7=-99/30, 7-8=-135/85, 8-9=-135/85, 9-10=-99/30, 10-11=-98/61, 11-12=-173/138, 12-13=-272/220, 13-14=-444/376,

14-15=0/16

BOT CHORD 2-26=-245/333, 25-26=-245/333, 24-25=-245/333, 23-24=-245/333,

22-23=-245/333, 21-22=-245/333, 20-21=-245/333, 19-20=-245/333, 18-19=-245/333, 17-18=-245/333, 16-17=-245/333, 14-16=-245/333

WFBS 7-21=-156/87, 9-20=-156/87, 6-22=-207/173, 5-24=-190/144, 4-25=-196/154, 3-26=-254/242, 10-19=-207/173,

11-18=-190/144, 12-17=-196/154, 13-16=-254/242

NOTES

- This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=0.0psf; BCDL=0.0psf; h=0ft; Cat. II; Exp C; Enclosed; C-C Corner (3) -0-11-0 to 2-1-0, Exterior (2) 2-1-0 to 8-0-0. Corner (3) 8-0-0 to 14-0-0. Exterior (2) 14-0-0 to 19-11-0, Corner (3) 19-11-0 to 22-11-0; cantilever left and right exposed; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.00
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.00); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp C; Partially Exp.; Ct=1.10
- This truss has been checked for uniform snow load only, except as noted.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.

- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 258 lb uplift at joint 2, 258 lb uplift at joint 14, 87 lb uplift at joint 21, 87 lb uplift at joint 20, 173 lb uplift at joint 22, 144 lb uplift at joint 24, 153 lb uplift at joint 25, 246 lb uplift at joint 26, 173 lb uplift at joint 19, 144 lb uplift at joint 18, 153 lb uplift at joint 17 and 246 lb uplift at joint 16.

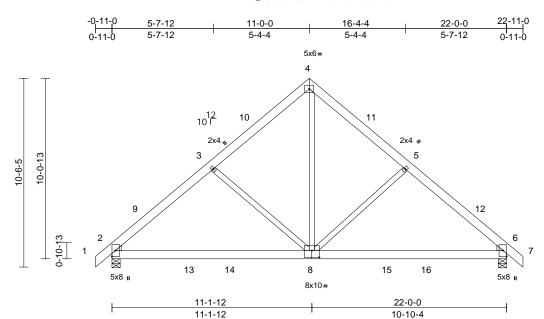
LOAD CASE(S) Standard



September 18,2020

Job	Truss	Truss Type	Qty	Ply	19 Mitchell Manor - Cedar El. A
20090080	B02	Common	1	1	E14880750 Job Reference (optional)

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Fri Sep 18 08:28:34 ID:Wnwi_oOl2euk?N9EmZ77i6ztR3n-Mock Me



Scale = 1:64.2

Plate Offsets (X, Y): [8:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	-	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.21	Vert(LL)	-0.08	2-8	>999	240	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.17	2-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.02	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0										Weight: 161 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-5-8, 6=0-5-8

Max Uplift 2=-509 (LC 6), 6=-509 (LC 6) Max Grav 2=1150 (LC 11), 6=1149 (LC 11)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/30, 2-9=-1291/496, 3-9=-1241/496,

3-10=-1077/459, 4-10=-978/459,

4-11=-995/467, 5-11=-1094/467,

5-12=-1246/496, 6-12=-1297/496, 6-7=0/30

BOT CHORD 2-13=-244/862, 13-14=-244/862, 8-14=-244/862, 8-15=-244/864,

15-16=-244/864, 6-16=-244/864

4-8=-378/885, 3-8=-408/279, 5-8=-404/278

WFBS NOTES

- This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=0.0psf; BCDL=0.0psf; h=0ft; Cat. II; Exp C; Enclosed; C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 8-0-0, Exterior (2) 8-0-0 to 14-0-0, Interior (1) 14-0-0 to 19-11-0, Exterior (2) 19-11-0 to 22-11-0; cantilever left and right exposed; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.00

- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.00); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp C; Partially Exp.; Ct=1.10
- This truss has been checked for uniform snow load only, except as noted.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 509 lb uplift at joint 2 and 509 lb uplift at joint 6.

LOAD CASE(S) Standard



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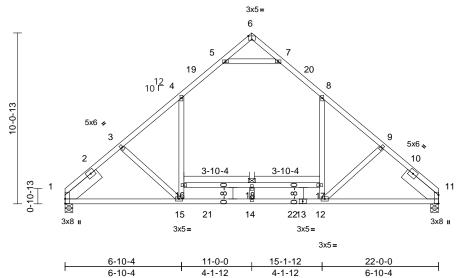
September 18,2020



Job	Truss	Truss Type	Qty	Ply	19 Mitchell Manor - Cedar El. A	
20090080	B03	Common	9	1	Job Reference (optional)	4880751

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Fri Sep 18 08:28:35 ID:Q5o65v_i9rh4LbqlaPGN7kyca?u-Mock Me





Scale = 1:67.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.16	14	>999	240	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.55	14	>482	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.03	11	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0										Weight: 141 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.3 *Except* 4-15,8-12,16-17:2x4

SP No.2

SLIDER Left 2x8 SP 2400F 2.0E -- 2-6-0, Right 2x8

SP 2400F 2.0E -- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

WFBS 1 Row at midpt 16-17

REACTIONS 1=0-5-8, 11=0-5-8 (size)

Max Uplift 1=-351 (LC 6), 11=-351 (LC 6) Max Grav 1=1173 (LC 10), 11=1173 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-1502/404, 2-3=-1445/410,

3-4=-1348/377, 4-19=-902/345,

5-19=-833/345, 5-6=-84/400, 6-7=-84/400,

7-20=-833/345, 8-20=-902/345,

8-9=-1348/377, 9-10=-1445/410,

10-11=-1502/404

BOT CHORD 1-15=-230/1012, 15-21=-99/891,

14-21=-99/891, 14-22=-99/891, 13-22=-99/891, 12-13=-99/891,

11-12=-230/1012

WEBS 15-16=-54/464, 4-16=-41/505,

12-17=-54/464, 8-17=-41/505,

16-18=-159/50, 17-18=-159/50, 14-18=0/83, 5-7=-1522/559, 3-15=-344/234,

9-12=-344/234

1) This truss has been checked for uniform roof live load only, except as noted.

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=0.0psf; BCDL=0.0psf; h=0ft; Cat. II; Exp C; Enclosed; C-C Exterior (2) 0-0-0 to 3-2-15, Interior (1) 3-2-15 to 8-0-0, Exterior (2) 8-0-0 to 14-0-0, Interior (1) 14-0-0 to 18-9-1. Exterior (2) 18-9-1 to 22-0-0; cantilever left and right exposed; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.00
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.00); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp C; Partially Exp.;
- This truss has been checked for uniform snow load only, except as noted.
- 200.0lb AC unit load placed on the bottom chord, 11-0-0 from left end, supported at two points, 5-0-0 apart.
- All plates are 2x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 351 lb uplift at joint 1 and 351 lb uplift at joint 11.

LOAD CASE(S) Standard



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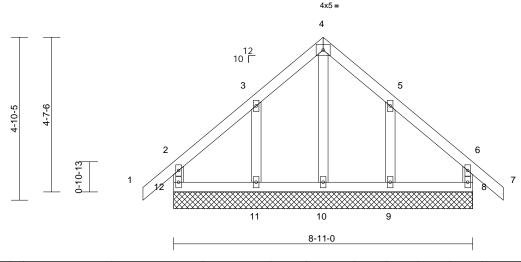
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal in-juny and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	19 Mitchell Manor - Cedar El. A	
20090080	C01	Common Supported Gable	1	1	Job Reference (optional)	E14880752

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Ī ⁰⁻¹¹⁻⁰) 4-5-8	8-11-0	9-10-0
0-11-0	4-5-8	4-5-8	0-11-0



Scale = 1:34.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-R								
BCDL	10.0	1		1							Weight: 49 lb	FT = 20%

LUMBER

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

2x4 SP No.2 *Except* 8-6:2x4 SP No.3 WEBS

OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

REACTIONS (size) 8=8-11-0, 9=8-11-0, 10=8-11-0,

11=8-11-0, 12=8-11-0

Max Horiz 12=-37 (LC 6)

Max Uplift 8=-176 (LC 6), 9=-193 (LC 6), 10=-84 (LC 7), 11=-184 (LC 6),

12=-183 (LC 6)

Max Grav 8=164 (LC 11), 9=289 (LC 11),

10=165 (LC 6), 11=284 (LC 11),

12=168 (LC 11)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

2-12=-149/187, 1-2=0/56, 2-3=-89/81, 3-4=-184/195, 4-5=-185/195, 5-6=-88/79,

6-7=0/56, 6-8=-147/184

BOT CHORD 11-12=-22/87, 10-11=-22/87, 9-10=-22/87,

8-9=-22/87

WEBS 4-10=-160/116, 3-11=-234/178, 5-9=-236/182

NOTES

- 1) This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=0.0psf; BCDL=0.0psf; h=0ft; Cat. II; Exp C; Enclosed; C-C Corner (3); cantilever left and right exposed; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.00

- 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.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.00); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp C; Partially Exp.; Ct=1.10
- This truss has been checked for uniform snow load only, except as noted.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 183 lb uplift at joint 12, 176 lb uplift at joint 8, 84 lb uplift at joint 10, 184 lb uplift at joint 11 and 193 lb uplift at joint 9.

LOAD CASE(S) Standard



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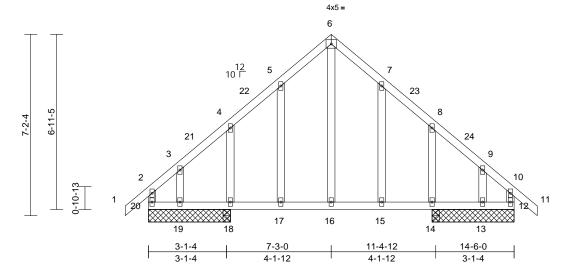
September 18,2020



Job	Truss	Truss Type	Qty	Ply	19 Mitchell Manor - Cedar El. A	
20090080	C02	Common Structural Gable	1	1	Job Reference (optional)	E14880753

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Scale = 1:45.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.17	Vert(LL)	-0.01	15-16	>999	240	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	-0.02	15-16	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	12	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-R								
BCDL	10.0	1									Weight: 92 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size)

12=3-3-0, 13=3-3-0, 14=0-3-8, 18=0-3-8, 19=3-3-0, 20=3-3-0

Max Horiz 20=-29 (LC 6)

Max Uplift 12=-30 (LC 6), 13=-121 (LC 2), 14=-229 (LC 6), 18=-230 (LC 6), 19=-121 (LC 2), 20=-41 (LC 6)

Max Grav 12=422 (LC 2), 13=90 (LC 7),

14=443 (LC 11), 18=444 (LC 11), 19=80 (LC 7), 20=422 (LC 2)

FORCES (Ib) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/56, 2-3=-305/0, 3-21=-235/11,

4-21=-174/11, 4-22=-329/124, 5-22=-329/124, 5-6=-327/195, 6-7

5-22=-280/124, 5-6=-327/185, 6-7=-327/185, 7-23=-280/123, 8-23=-329/123,

8-24=-174/12, 9-24=-235/12, 9-10=-305/0,

10-11=0/56, 2-20=-331/60, 10-12=-331/55

BOT CHORD 19-20=0/174, 18-19=0/174, 17-18=0/174,

16-17=0/174, 15-16=0/174, 14-15=0/174,

13-14=0/174, 12-13=0/174

6-16=-114/186, 5-17=-106/97, 4-18=-284/175, 3-19=-107/104.

7-15=-106/97, 8-14=-283/175, 9-13=-112/109

NOTES

WEBS

This truss has been checked for uniform roof live load only, except as noted.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=0.0psf; BCDL=0.0psf; h=0ft; Cat. II; Exp C; Enclosed; C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 4-3-0, Exterior (2) 4-3-0 to 10-3-0, Interior (1) 10-3-0 to 12-5-0, Exterior (2) 12-5-0 to 15-5-0; cantilever left and right exposed; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.00
- 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.00); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp C; Partially Exp.; Ct=1.10
- This truss has been checked for uniform snow load only, except as noted.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 9) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 20, 30 lb uplift at joint 12, 121 lb uplift at joint 19, 121 lb uplift at joint 13, 230 lb uplift at joint 18 and 229 lb uplift at joint 14.

LOAD CASE(S) Standard



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September 18,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

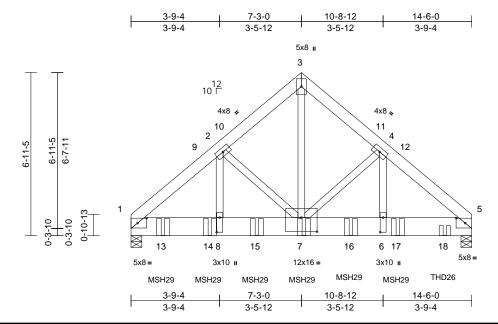


Qty Job Truss Truss Type Ply 19 Mitchell Manor - Cedar Fl. A E14880754 20090080 C₀3 Common Girder Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332,

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Scale = 1:49

Plate Offsets (X, Y): [1:0-4-10,0-2-8], [5:0-4-10,0-2-8], [6:0-7-8,0-1-8], [7:0-8-0,0-7-4], [8:0-7-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	-	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.26	Vert(LL)	-0.05	7-8	>999	240	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.10	7-8	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.02	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0	1									Weight: 264 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No 2 **BOT CHORD** 2x10 SP 2400F 2.0E

WEBS 2x4 SP No.3 *Except* 7-3:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-11-11 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Grav 1=8915 (LC 10), 5=9127 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-9=-9651/0, 2-9=-9560/0, 2-10=-7010/0,

3-10=-7005/0, 3-11=-7005/0, 4-11=-7010/0,

4-12=-9498/0, 5-12=-9589/0 **BOT CHORD**

1-13=0/6908, 13-14=0/6908, 8-14=0/6908, 8-15=0/6909, 7-15=0/6909, 7-16=0/6864,

6-16=0/6864, 6-17=0/6863, 17-18=0/6863,

5-18=0/6863

WEBS 2-8=0/3536, 2-7=-2268/0, 3-7=0/8503,

4-7=-2206/0, 4-6=0/3448

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x6 2 rows
 - staggered at 0-9-0 oc. Bottom chords connected as follows: 2x10 - 3 rows staggered at 0-5-0 oc.
 - Web connected as follows: 2x4 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- This truss has been checked for uniform roof live load only, except as noted.

- 4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=0.0psf; BCDL=0.0psf; h=0ft; Cat. II; Exp C; Enclosed; C-C Exterior (2) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 4-3-0. Exterior (2) 4-3-0 to 10-3-0. Interior (1) 10-3-0 to 11-3-4, Exterior (2) 11-3-4 to 14-3-4; cantilever left and right exposed; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.00
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.00); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp C; Partially Exp.;
- This truss has been checked for uniform snow load only, except as noted.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Use USP MSH29 (With 18-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-4-4 from the left end to 11-4-4 to connect truss(es) to front face of bottom chord.
- 10) Use USP THD26 (With 18-16d nails into Girder & 12-10d x 1-1/2 nails into Truss) or equivalent at 13-4-4 from the left end to connect truss(es) to front face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.00

Uniform Loads (lb/ft)

Vert: 1-3=-51, 3-5=-51, 1-5=-20

Concentrated Loads (lb)

Vert: 7=-1991 (F), 13=-1991 (F), 14=-1991 (F), 15=-1991 (F), 16=-1991 (F), 17=-1991 (F), 18=-1992



September 18,2020

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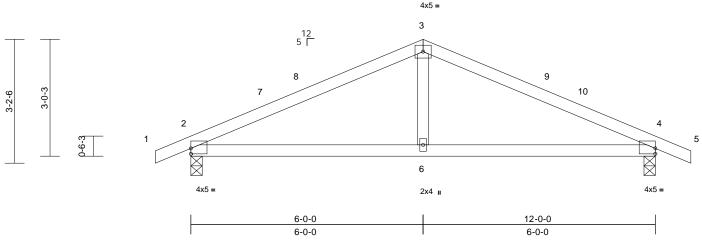


Job	Truss	Truss Type	Qty	Ply	19 Mitchell Manor - Cedar El. A	
20090080	CP1	Common	4	1	Job Reference (optional)	14880755

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Fri Sep 18 08:28:37 ID:UCcv7l9c2YyjXzpJTWP_oHycZtw-Mock Me

Page: 1





Scale = 1:29.8

Plate Offsets (X, Y): [2:Edge,0-1-11], [4:Edge,0-1-11]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.49	Vert(LL)	0.08	2-6	>999	240	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	0.08	2-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0										Weight: 44 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-2-3 oc

bracing.

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

Max Uplift 2=-765 (LC 6), 4=-765 (LC 6) Max Grav 2=532 (LC 2), 4=532 (LC 2)

FORCES (lb) - M

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/14, 2-7=-703/942, 7-8=-632/942,

3-8=-631/942, 3-9=-631/942, 9-10=-632/942,

4-10=-703/942, 4-5=0/14 2-6=-772/573, 4-6=-772/573

BOT CHORD 2-6=-772/573, WEBS 3-6=-449/283

NOTES

- This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=0.0psf; BCDL=0.0psf; h=0ft; Cat. II; Exp C; Enclosed; C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 3-0-0, Exterior (2) 3-0-0 to 9-0-0, Interior (1) 9-0-0 to 9-11-0, Exterior (2) 9-11-0 to 12-11-0; cantilever left and right exposed; end vertical right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.00
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.00); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp C; Partially Exp.; Ct=1.10
- This truss has been checked for uniform snow load only, except as noted.

- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 765 lb uplift at joint 2 and 765 lb uplift at joint 4.

LOAD CASE(S) Standard



September 18,2020

🛕 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



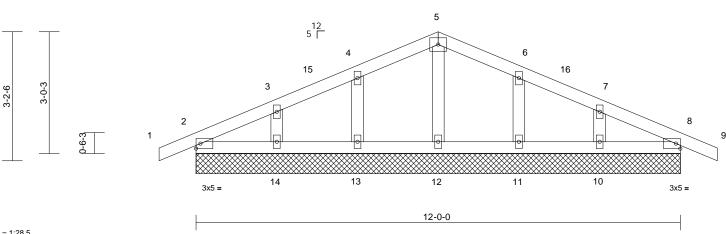
Job	Truss	Truss Type	Qty	Ply	19 Mitchell Manor - Cedar El. A	
20090080	CPGE	Common Supported Gable	1	1	Job Reference (optional)	E14880756

Run: 8.42 S Aug 25 2020 Print: 8.420 S Aug 25 2020 MiTek Industries, Inc. Fri Sep 18 08:28:37 ID:vnl2mJBULTKIOQYu8fzhQvycZtt-Mock Me

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-0-11-0	6-0-0	12-0-0	12-11-0
0-11-0	6-0-0	6-0-0	0-11-0

4x5 =



Scale = 1:28.5

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0	1		1							Weight: 51 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=12-0-0 8=12-0-0 10=12-0-0 11=12-0-0, 12=12-0-0, 13=12-0-0,

14=12-0-0

Max Uplift 2=-193 (LC 6), 8=-193 (LC 6),

10=-174 (LC 6), 11=-209 (LC 6), 12=-50 (LC 6), 13=-209 (LC 6),

14=-174 (LC 6)

2=139 (LC 2), 8=139 (LC 2), Max Grav

10=185 (LC 11), 11=180 (LC 11),

12=141 (LC 2), 13=180 (LC 11),

14=185 (LC 11)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/14, 2-3=-39/20, 3-15=-39/71,

4-15=-13/71, 4-5=-56/151, 5-6=-56/151, 6-16=-13/71, 7-16=-39/71, 7-8=-39/20,

8-9=0/14

BOT CHORD 2-14=-10/72, 13-14=-10/72, 12-13=-10/72,

11-12=-10/72, 10-11=-10/72, 8-10=-10/72

5-12=-101/50, 4-13=-142/208,

3-14=-139/175, 6-11=-142/208,

7-10=-139/175

NOTES

WEBS

This truss has been checked for uniform roof live load only, except as noted.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=0.0psf; BCDL=0.0psf; h=0ft; Cat. II; Exp C; Enclosed; C-C Corner (3) -0-11-0 to 2-0-0, Exterior (2) 2-0-0 to 3-0-0, Corner (3) 3-0-0 to 9-0-0, Exterior (2) 9-0-0 to 9-11-0, Corner (3) 9-11-0 to 12-11-0; cantilever left and right exposed; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.00
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.00); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp C; Partially Exp.; Ct=1.10
- This truss has been checked for uniform snow load only, except as noted.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 193 lb uplift at joint 2, 193 lb uplift at joint 8, 50 lb uplift at joint 12, 209 Ib uplift at joint 13, 174 lb uplift at joint 14, 209 lb uplift at joint 11 and 174 lb uplift at joint 10.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.

LOAD CASE(S) Standard



September 18,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MTI-sky 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/PTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information, pushed from True Blots pertitive. 2570 Crisis Historyca. Suits 203 Wolderf, MD 20601. fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSVTP/1 Qu Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

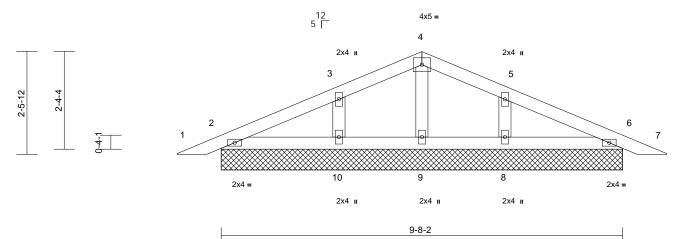


Job	Truss	Truss Type	Qty	Ply	19 Mitchell Manor - Cedar El. A	
20090080	PB01	Piggyback	2	1	Job Reference (optional)	4880757

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-1-0-11	4-10-1	9-8-2	10-8-13
1-0-11	4-10-1	4-10-1	1-0-11



Scale = 1:27.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0	1		1		l					Weight: 39 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=9-8-2, 6=9-8-2, 8=9-8-2,

9=9-8-2, 10=9-8-2

Max Uplift 2=-207 (LC 6), 6=-207 (LC 6),

8=-312 (LC 6), 9=-27 (LC 6),

10=-312 (LC 6)

Max Grav 2=143 (LC 2), 6=143 (LC 2), 8=266

(LC 11), 9=104 (LC 2), 10=266 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20, 2-3=-38/29, 3-4=-51/133, 4-5=-51/133, 5-6=-38/29, 6-7=0/20

BOT CHORD 2-10=-7/69, 9-10=-7/69, 8-9=-7/69, 6-8=-7/69

4-9=-80/36, 3-10=-198/299, 5-8=-198/299 **WEBS**

NOTES

- This truss has been checked for uniform roof live load only, except as noted.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=0.0psf; BCDL=0.0psf; h=0ft; Cat. II; Exp C; Enclosed; C-C Corner (3); cantilever left and right exposed; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.00
- Truss designed for wind loads in the plane of the truss only. For stude exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.00); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp C; Partially Exp.;
- This truss has been checked for uniform snow load only, except as noted.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 207 lb uplift at joint 2, 207 lb uplift at joint 6, 27 lb uplift at joint 9, 312 lb uplift at joint 10 and 312 lb uplift at joint 8.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



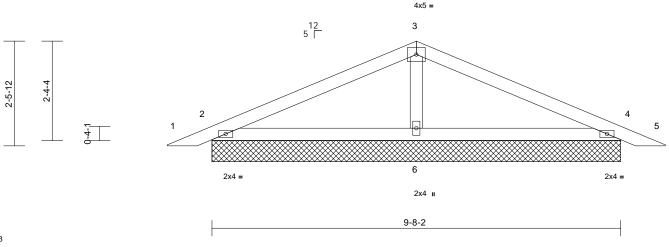
September 18,2020

Job	Truss	Truss Type	Qty	Ply	19 Mitchell Manor - Cedar El. A	
20090080	PB02	Piggyback	20	1	Job Reference (optional)	E14880758

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Page: 1

-1-0-11	4-10-1	9-8-2	10-8-13	
1-0-11	4-10-1	4-10-1	1-0-11	



Scale = 1:27.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0										Weight: 36 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=9-8-2, 4=9-8-2, 6=9-8-2 Max Uplift

2=-210 (LC 6), 4=-210 (LC 6),

6=-289 (LC 6)

Max Grav 2=216 (LC 2), 4=216 (LC 2), 6=460

(LC 11)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/20, 2-3=-81/63, 3-4=-81/63, 4-5=0/20

BOT CHORD 2-6=0/25, 4-6=0/25 **WEBS** 3-6=-309/252

NOTES

- This truss has been checked for uniform roof live load 1) only, except as noted.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=0.0psf; BCDL=0.0psf; h=0ft; Cat. II; Exp C; Enclosed; C-C Exterior (2); cantilever left and right exposed; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.00
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.25 Plate DOL=1.00); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp C; Partially Exp.; Ct = 1.10
- This truss has been checked for uniform snow load only, except as noted.

- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 210 lb uplift at joint 2, 210 lb uplift at joint 4 and 289 lb uplift at joint 6.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



September 18,2020

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ANSI/PTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information, pushed from True Blots pertitive. 2570 Crisis Historyca. Suits 203 Wolderf, MD 20601. fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSVTP/1 Qu Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

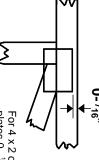


Symbols

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 20/20 software or upon request.

PLATE SIZE

4 × 4

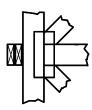
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



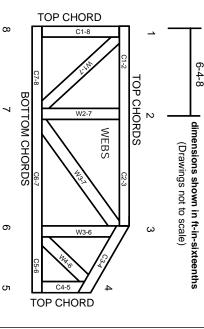
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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

DSB-89:

Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & 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-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Iniury

- Damage or Personal Injury

 1. 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.

4

- Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.

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Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.

7.

- 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
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. 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.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.