

RE: 3769916

Dogwood A - Lot 10 - Fairground Farms

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: 3769916

Lot/Block: Model:
Address: Subdivision:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.6

Wind Code: Wind Speed: 120 mph Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 16 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	162287187	A01	11/30/2023
2	162287188	A02	11/30/2023
3	162287189	A03	11/30/2023
4	162287190	A04	11/30/2023
5	162287191	B01G	11/30/2023
6	162287192	B02	11/30/2023
7	162287193	B03	11/30/2023
8	162287194	B04	11/30/2023
9	162287195	C01G	11/30/2023
10	162287196	C02	11/30/2023
11	162287197	C03	11/30/2023
12	162287198	M01	11/30/2023
13	162287199	M02	11/30/2023
14	162287200	M03	11/30/2023
15	162287201	M04	11/30/2023
16	162287202	M05	11/30/2023

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision

based on the parameters provided by Builders FirstSource (Albermarle, NC).

Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844

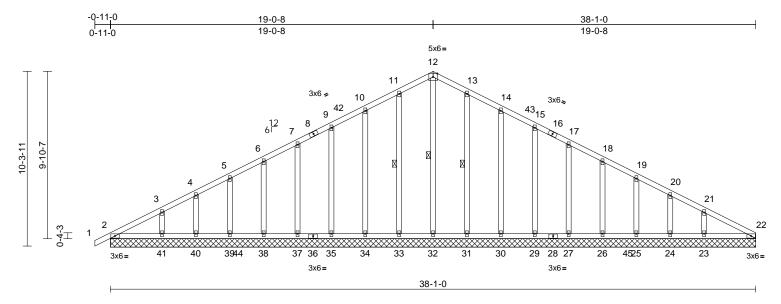
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



November 30, 2023

Job	Truss	Truss Type	Qty	Ply	Dogwood A - Lot 10 - Fairground Farms	
3769916	A01	Common Supported Gable	2	1	Job Reference (optional)	162287187

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Nov 30 08:26:11 ID:qt7n_1dAH22SYOUL4v9chYzCwFL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scal	ρ	_	1	68

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	22	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0										Weight: 250 lb	FT = 20%

LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc	TOP CHORD BOT CHORD	1-2=0/43, 2-3=-180/71, 3-4=-127/71, 4-5=-97/83, 5-6=-79/100, 6-7=-62/121, 7-9=-54/142, 9-10=-48/162, 10-11=-58/184, 11-12=-65/202, 12-13=-65/195, 13-14=-59/161, 14-15=-50/123, 15-17=-43/86, 17-18=-44/64, 18-19=-44/43, 19-20=-54/30, 20-21=-79/18, 21-22=-124/43, 2-41=-10/127, 40-41=-10/127, 39-40=-10/127, 38-39=-10/127.
WEBS REACTIONS	bracing. 1 Row at midpt 12-32, 11-33, 13-31 (size) 2=38-1-0, 22=38-1-0, 23=38-1-0, 24=38-1-0, 25=38-1-0, 26=38-1-0, 27=38-1-0, 29=38-1-0, 30=38-1-0, 31=38-1-0, 32=38-1-0, 37=38-1-0, 34=38-1-0, 35=38-1-0, 37=38-1-0, 38=38-1-0, 39=38-1-0, 40=38-1-0, 41=38-1-0	WEBS	39-40=-10/127, 30-39-10/127, 37-38=-10/127, 34-35=-10/127, 33-34=-10/127, 34-35=-10/127, 31-32=-10/127, 32-33=-10/127, 31-30=-10/127, 29-30=-10/127, 27-29=-10/127, 26-27=-10/127, 25-26=-10/127, 24-25=-10/127, 23-24=-10/127, 22-23=-10/127, 23-24=-

Max Horiz 2=148 (LC 12)

Max Uplift 2=-7 (LC 13), 23=-55 (LC 13),

41=-50 (LC 12)

41=252 (LC 1)

(lb) - Maximum Compression/Maximum

Max Grav 2=186 (LC 19), 22=114 (LC 20),

24=-27 (LC 13), 25=-36 (LC 13),

26=-34 (LC 13), 27=-34 (LC 13),

29=-34 (LC 13), 30=-38 (LC 13),

31=-28 (LC 13), 33=-31 (LC 12),

34=-37 (LC 12), 35=-34 (LC 12),

37=-34 (LC 12), 38=-34 (LC 12),

39=-35 (LC 12), 40=-30 (LC 12),

23=269 (LC 1), 24=138 (LC 20),

25=181 (LC 1), 26=210 (LC 6),

27=209 (LC 4), 29=223 (LC 6),

30=262 (LC 6), 31=274 (LC 6),

37=209 (LC 4), 38=210 (LC 5),

39=179 (LC 1), 40=144 (LC 19),

32=253 (LC 25), 33=273 (LC 5), 34=259 (LC 5), 35=219 (LC 5),

NOTES

Unbalanced roof live loads have been considered for this design

21-23=-199/86

3-41=-185/81, 13-31=-219/52,

14-30=-203/62, 15-29=-150/58

17-27=-133/59, 18-26=-132/58,

19-25=-138/61, 20-24=-109/49,

10-34=-198/61, 9-35=-145/58, 7-37=-133/58,

6-38=-132/58, 5-39=-137/60, 4-40=-114/51,

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 10) 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 12) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.



November 30,2023

Continued on page 2

Tension

FORCES

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	Dogwood A - Lot 10 - Fairground Farms	
3769916	A01	Common Supported Gable	2	1	Job Reference (optional)	162287187

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Nov 30 08:26:11 Page: 2

13) Provide mechanical connection (by others) of truss to Provide inechanical connection (by others) of itsus to bearing plate capable of withstanding 7 lb uplift at joint 2, 31 lb uplift at joint 33, 37 lb uplift at joint 34, 34 lb uplift at joint 35, 34 lb uplift at joint 37, 34 lb uplift at joint 38, 35 lb uplift at joint 39, 30 lb uplift at joint 40, 50 lb uplift at joint 41, 28 lb uplift at joint 31, 38 lb uplift at joint 30, 34 lb uplift at joint 29, 34 lb uplift at joint 27, 34 lb uplift at joint 26, 36 lb uplift at joint 25, 27 lb uplift at joint 24 and 55 lb uplift at joint 23.

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

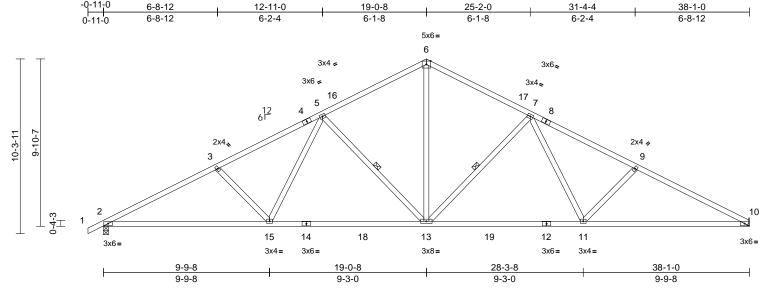
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Dogwood A - Lot 10 - Fairground Farms	
3769916	A02	Common	10	1	Job Reference (optional)	l62287188

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Thu Nov. 30 08:26:13 ID:HIAK1tqfdMFB70WL8t4pv1zCwO7-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:67.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.27	13-15	>999	240	MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.52	10-11	>877	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.13	10	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0										Weight: 195 lb	FT = 20%

LUMBER

2x4 SP No.2 *Except* 8-10:2x4 SP 2400F TOP CHORD

2.0E or 2x4 SP DSS or 2x4 SP SS

BOT CHORD 2x4 SP No.1 2x4 SP No.3 WEBS

BRACING

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

bracing

WFBS 5-13, 7-13 1 Row at midpt

REACTIONS (size) 2=0-3-8, 10= Mechanical

Max Horiz 2=148 (LC 16)

Max Uplift 2=-102 (LC 12), 10=-85 (LC 13)

Max Grav 2=1704 (LC 1), 10=1631 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/44, 2-3=-3052/179, 3-5=-2766/163,

5-6=-1932/156, 6-7=-1931/155,

7-9=-2788/167, 9-10=-3084/186

BOT CHORD 2-15=-226/2654, 13-15=-101/2151,

11-13=0/2159, 10-11=-98/2692 **WEBS** 6-13=-40/1267, 3-15=-386/176, 5-15=-9/558,

5-13=-835/186, 7-13=-855/186, 7-11=-13/573, 9-11=-415/184

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct = 1.10

- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 2 SP No.1 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 2 and 85 lb uplift at joint 10.
- 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.

LOAD CASE(S) Standard



November 30,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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)

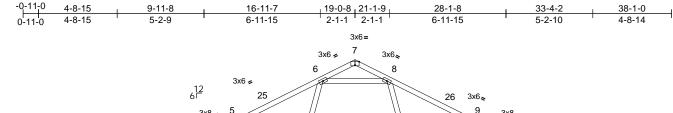


Job	Truss	Truss Type	Qty	Ply	Dogwood A - Lot 10 - Fairground Farms	
3769916	A03	Common	3	1	Job Reference (optional)	l62287189

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Nov 30 08:26:14 ID:HIAK1tqfdMFB70WL8t4pv1zCwO7-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f

IMFB70WL8t4pv1zCwO7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



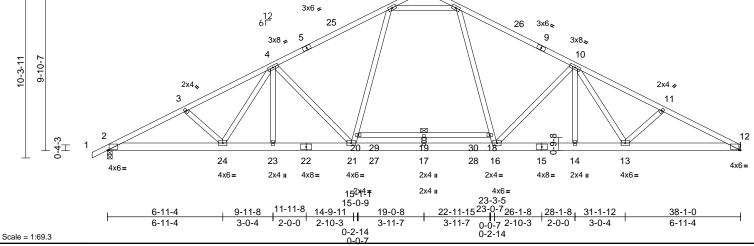


Plate Offsets (X, Y): [2:0-1-4,0-0-9], [7:0-3-0,Edge], [11:0-0-0,0-0-0], [12:0-1-4,0-0-9]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.33	14-16	>999	240	MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.46	18	>991	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.08	12	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0										Weight: 255 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4

SP SS

BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP DSS *Except*

20-18:2x4 SP No.2

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

BRACING

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or 3-3-14 oc purlins.

BOT CHORD Rigid ceiling dir

Rigid ceiling directly applied or 10-0-0 oc

bracing. Except: 6-0-0 oc bracing: 18-20

REACTIONS (size) 2=0-3-8, 12= Mechanical

Max Horiz 2=149 (LC 12)

Max Uplift 2=-53 (LC 12), 12=-36 (LC 13)

Max Grav 2=1786 (LC 1), 12=1713 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/51, 2-3=-3391/70, 3-4=-3171/60,

4-6=-2644/34, 6-7=-65/107, 7-8=-65/113, 8-10=-2647/33, 10-11=-3211/65,

11-12=-3445/78

BOT CHORD 2-24=-148/2967, 23-24=-75/2619,

21-23=-75/2619, 17-21=0/2066,

16-17=0/2066, 14-16=0/2637, 13-14=0/2637, 12-13=-23/3030, 19-20=-8/7, 18-19=-8/7

20-21=0/800, 6-20=0/868, 8-18=0/875,

16-18=0/806, 6-8=-2136/135, 4-21=-844/253,

10-16=-875/255, 4-24=0/331, 10-13=0/362,

3-24=-266/117, 11-13=-305/125,

17-19=-241/0, 4-23=-191/224,

10-14=-182/236

NOTES

WEBS

 Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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 23.1 psf on overhangs non-concurrent with other live loads.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 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 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 2 SP 2400F 2.0E or DSS crushing capacity of 660 psi.
- Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 2 and 36 lb uplift at joint 12.
- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



November 30,2023



Job	Truss	Truss Type	Qty	Ply	Dogwood A - Lot 10 - Fairground Farms	
3769916	A04	Common	3	1	Job Reference (optional)	l62287190

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S. Nov. 1 2023 MiTek Industries. Inc. Thu Nov. 30 08:26:14 ID:SWZSPiKZvFxP508woO7bPNzCw9H-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

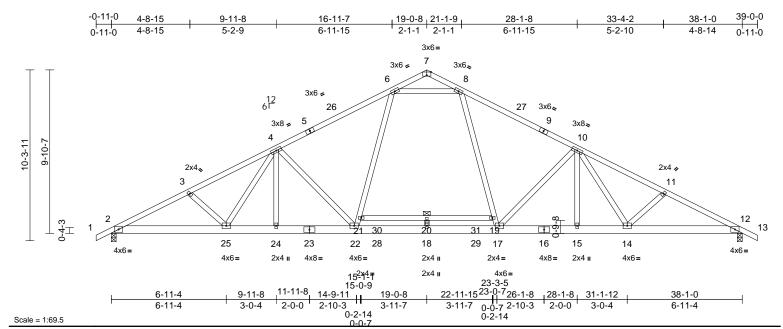


Plate Offsets (X, Y): [7:0-3-0,Edge], [11:0-0-0,0-0-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.33	22-24	>999	240	MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.45	21	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.08	12	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0										Weight: 257 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4

SP SS

BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP DSS *Except*

21-19:2x4 SP No.2 2x4 SP No.3

WFBS BRACING

TOP CHORD Structural wood sheathing directly applied or

3-4-9 oc purlins.

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

bracing. Except:

6-0-0 oc bracing: 19-21 REACTIONS (size)

2=0-3-8, 12=0-3-8 Max Horiz 2=142 (LC 12)

Max Uplift 2=-53 (LC 12), 12=-53 (LC 13)

Max Grav 2=1781 (LC 1), 12=1781 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/51, 2-3=-3381/70, 3-4=-3161/60

4-6=-2633/33, 6-7=-64/108, 7-8=-65/108,

8-10=-2633/33, 10-11=-3161/61, 11-12=-3381/70, 12-13=0/51

BOT CHORD 2-25=-141/2958, 24-25=-68/2611,

22-24=-68/2611, 18-22=0/2055,

17-18=0/2055, 15-17=0/2611, 14-15=0/2611,

12-14=0/2958, 20-21=-9/7, 19-20=-9/7

21-22=0/797, 6-21=0/866, 8-19=0/866, 17-19=0/797, 6-8=-2122/134, 4-22=-856/253,

4-25=0/329, 3-25=-266/117, 10-17=-856/253,

10-14=0/329, 11-14=-266/117, 18-20=-241/0,

4-24=-188/232, 10-15=-188/232

NOTES

WEBS

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow): Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated
- 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP 2400F 2.0E or DSS crushing capacity of 660 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 2 and 53 lb uplift at joint 12.
- 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.

LOAD CASE(S) Standard



November 30,2023



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Dogwood A - Lot 10 - Fairground Farms 162287191 3 3769916 B01G Common Girder Job Reference (optional)

Builders FirstSource (Albermarle), Albemarle, NC - 28001,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Nov 30 08:26:15 ID:IF_?P4Q8uImFP3xY7Te09yzCw07-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

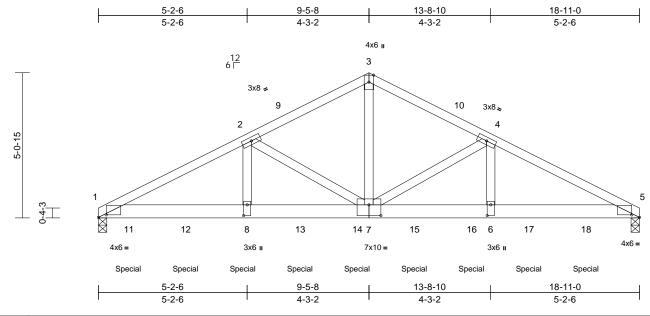


Plate Offsets (X, Y): [1:0-3-4,0-1-1], [5:0-3-4,0-1-1], [6:0-4-8,0-1-8], [7:0-5-0,0-4-8], [8:0-4-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.13	7-8	>999	240	MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.24	7-8	>940	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.67	Horz(CT)	0.06	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0			I							Weight: 308 lb	FT = 20%

LUMBER

Scale = 1:40.3

TOP CHORD 2x4 SP No 2

BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP DSS **WEBS** 2x4 SP No.3 *Except* 7-3:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-8-13 oc purlins.

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

bracing.

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

Max Horiz 1=67 (LC 12)

Max Uplift 1=-495 (LC 12), 5=-460 (LC 13)

Max Grav 1=8351 (LC 1), 5=7758 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-14046/830, 2-3=-9623/595, 3-4=-9623/595, 4-5=-13990/828

BOT CHORD 1-8=-757/12493, 6-8=-757/12493,

5-6=-688/12442

WEBS 2-8=-182/4075, 2-7=-4623/353,

3-7=-467/8250, 4-7=-4564/350,

4-6=-179/4023

NOTES

- 3-ply truss to be connected together as follows: Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc. Bottom chords connected with 10d (0.148"x3") nails as follows: 2x6 - 3 rows staggered at 0-4-0 oc. Web chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B). unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow): Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1 10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP 2400F 2.0E or DSS crushing capacity of 660 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 495 lb uplift at joint 1 and 460 lb uplift at joint 5.
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1612 lb down and 96 lb up at 1-0-12, 1611 lb down and 97 lb up at 3-0-12, 1611 lb down and 97 lb up at 5-0-12, 1611 lb down and 97 lb up at 7-0-12, 1611 lb down and 97 lb up at 9-0-12, 1611 lb down and 97 lb up at 11-0-12, 1611 lb down and 97 lb up at 13-0-12, and 1611 lb down and 97 lb up at 15-0-12, and 1611 lb down and 97 lb up at 17-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-3=-66, 3-5=-66, 1-5=-20

Concentrated Loads (lb)

Vert: 8=-1611 (B), 11=-1612 (B), 12=-1611 (B), 13=-1611 (B), 14=-1611 (B), 15=-1611 (B), 16=-1611

(B), 17=-1611 (B), 18=-1611 (B)



November 30,2023

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 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/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	Dogwood A - Lot 10 - Fairground Farms	
3769916	B02	Common	1	1	Job Reference (optional)	l62287192

9-5-8

Builders FirstSource (Albermarle), Albemarle, NC - 28001,

5-0-6

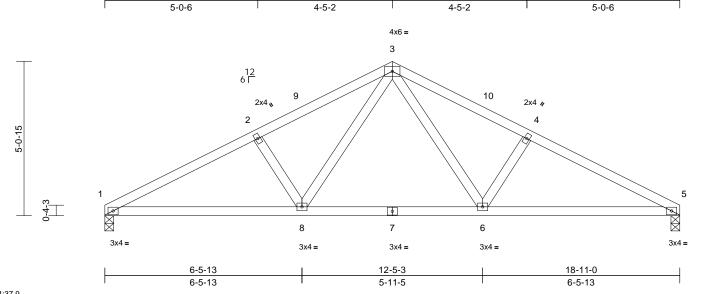
Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Nov 30 08:26:15

13-10-10

ID:51n8ua_6zRTAqf9IY_RklfzCvyp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

18-11-0



Scale	_	1.01	

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.05	1-8	>999	240	MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.12	1-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.03	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0										Weight: 84 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-6-6 oc purlins.

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

bracing.

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

Max Horiz 1=68 (LC 12)

Max Uplift 1=-41 (LC 12), 5=-41 (LC 13)

Max Grav 1=803 (LC 1), 5=803 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

1-2=-1385/86, 2-3=-1231/100,

3-4=-1231/100, 4-5=-1385/86

BOT CHORD 1-8=-94/1187, 6-8=0/791, 5-6=-27/1187 **WEBS** 3-8=-51/483, 3-6=-51/483, 2-8=-322/139,

4-6=-322/139

NOTES

TOP CHORD

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this 4) design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 1 and 41 lb uplift at joint 5.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



November 30,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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)

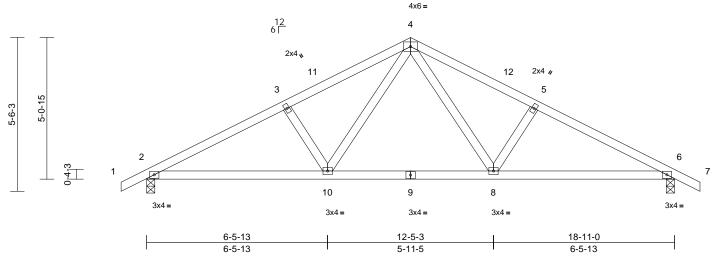


Job	Truss	Truss Type	Qty	Ply	Dogwood A - Lot 10 - Fairground Farms	
3769916	B03	Common	1	1	Job Reference (optional)	l62287193

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Thu Nov. 30 08:26:15 ID:bIC3UUgMhfRgTm7yYcQnlTzCvvL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:41.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.05	2-10	>999	240	MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.12	2-10	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.03	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0			1							Weight: 87 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-7-11 oc purlins.

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

bracing.

REACTIONS (size) 2=0-3-8, 6=0-3-8

Max Horiz 2=-74 (LC 13)

Max Uplift 2=-59 (LC 12), 6=-59 (LC 13)

Max Grav 2=873 (LC 1), 6=873 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/44, 2-3=-1384/82, 3-4=-1215/96, 4-5=-1215/96, 5-6=-1384/82, 6-7=0/44

BOT CHORD 2-10=-83/1169, 8-10=0/784, 6-8=-9/1169

WEBS 4-10=-47/479, 4-8=-47/479, 3-10=-321/135,

5-8=-321/135

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this 4) design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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 1-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 2 and 59 lb uplift at joint 6.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



November 30,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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	Dogwood A - Lot 10 - Fairground Farms	
3769916	B04	Common Supported Gable	1	1	Job Reference (optional)	l62287194

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Nov 30 08:26:16 ID:YDRXAQWHC9GksWTPfJgCaEzCvuF-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

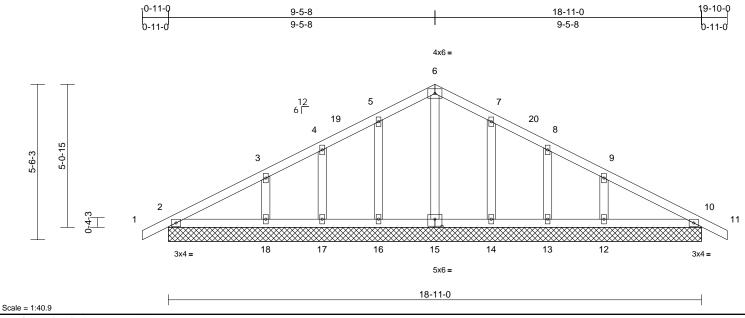


Plate Offsets (X, Y): [15:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0										Weight: 92 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.
BOT CHORD Rigid ceiling dire

ORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=18-11-0, 10=18-11-0, 12=18-11-0, 13=18-11-0, 14=18-11-0, 15=18-11-0,

16=18-11-0, 17=18-11-0, 18=18-11-0

Max Horiz 2=-74 (LC 13)

Max Uplift 2=-7 (LC 13), 10=-14 (LC 13),

12=-56 (LC 13), 13=-27 (LC 13), 14=-37 (LC 13), 16=-38 (LC 12),

17=-27 (LC 12), 18=-56 (LC 12) Max Grav 2=199 (LC 1), 10=199 (LC 1),

12=288 (LC 1), 13=133 (LC 20), 14=239 (LC 20), 15=217 (LC 25), 16=239 (LC 19), 17=133 (LC 19),

18=288 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/43, 2-3=-92/64, 3-4=-57/65,

4-5=-41/85, 5-6=-57/105, 6-7=-57/99, 7-8=-41/60, 8-9=-53/34, 9-10=-69/43,

10-11=0/43

BOT CHORD 2-18=-2/70, 17-18=-2/70, 16-17=-2/70,

14-16=-2/70, 13-14=-2/70, 12-13=-2/70,

WEBS 6-15=-111/0, 5-16=-195/63, 4-17=-108/47,

3-18=-211/90, 7-14=-195/62, 8-13=-108/47,

9-12=-211/90

- Unbalanced roof live loads have been considered for
- this design.

 2) Wind: ASCE 7-10; Vult=120mph (3-second gust)
 Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat.
 II; Exp B; Enclosed; MWFRS (envelope) exterior zone;
 cantilever left and right exposed; Lumber DOL=1.60
 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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 23.1 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 2, 38 lb uplift at joint 16, 27 lb uplift at joint 17, 56 lb uplift at joint 18, 37 lb uplift at joint 14, 27 lb uplift at joint 13, 56 lb uplift at joint 12 and 14 lb uplift at joint 10.

- 14) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 15) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



November 30,2023



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

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

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 ANS/TPH 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)



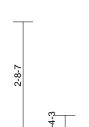
818 Soundside Road Edenton, NC 27932

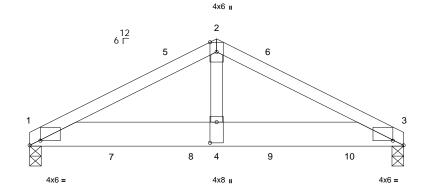
Job Truss Truss Type Qty Ply Dogwood A - Lot 10 - Fairground Farms 162287195 3769916 C01G Common Girder 2 Job Reference (optional)

Builders FirstSource (Albermarle), Albemarle, NC - 28001,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Nov 30 08:26:16 ID:aGLwiccE9VOZyjTQ5NI?Q?zCvqG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Special Special	Special Special
4-8-8	9-5-0
4-8-8	4-8-8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.04	3-4	>999	240	MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.08	3-4	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.01	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0	l		1							Weight: 95 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2

BOT CHORD 2x8 SP 2400F 2.0E or 2x8 SP DSS

WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-0-6 oc purlins.

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

bracing.

REACTIONS (size) 1=0-3-8, 3=0-3-8 Max Horiz 1=-32 (LC 17)

Max Uplift 1=-148 (LC 12), 3=-134 (LC 13)

Max Grav 1=3452 (LC 1), 3=4026 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=-5407/200, 2-3=-5405/200

TOP CHORD **BOT CHORD** 1-4=-149/4812, 3-4=-149/4812

WEBS 2-4=-95/4386

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
 - Bottom chords connected as follows: 2x8 4 rows staggered at 0-7-0 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.
- Unbalanced roof live loads have been considered for this design.

- 4) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow): Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP 2400F 2.0E or DSS crushing capacity of 660 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at joint 1 and 134 lb uplift at joint 3.
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1611 lb down and 97 lb up at 2-0-12, 1693 lb down and 48 lb up at 4-0-12, and 1693 lb down and 48 lb up at 6-0-12, and 1693 lb down and 48 lb up at 8-0-12 on bottom chord. The design/selection of such connection device (s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-66, 2-3=-66, 1-3=-20

Concentrated Loads (lb)

Vert: 7=-1611 (B), 8=-1693 (B), 9=-1693 (B), 10=-1693 (B)

Page: 1



November 30,2023

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

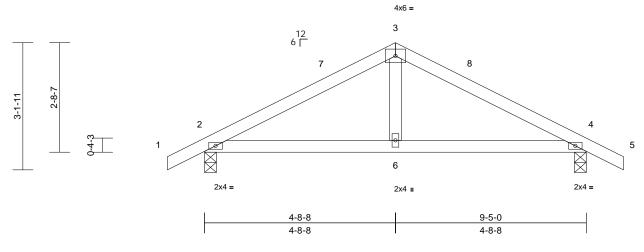
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Dogwood A - Lot 10 - Fairground Farms	
3769916	C02	Common	1	1	Job Reference (optional)	162287196

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Nov 30 08:26:16 ID:V?YIUZVtZMMDApTbGpGpreynDku-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

-0-11-0	4-8-8	9-5-0	10-4-0
0-11-0	4-8-8	4-8-8	0-11-0



Scale = 1:28.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.01	2-6	>999	240	MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.03	2-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	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 WFBS

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=0-3-8, 4=0-3-8

Max Horiz 2=-40 (LC 13) Max Uplift 2=-38 (LC 12), 4=-38 (LC 13)

Max Grav 2=464 (LC 1), 4=464 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/44, 2-3=-538/29, 3-4=-538/29, TOP CHORD

4-5=0/44

2-6=0/415, 4-6=0/415 BOT CHORD

WEBS 3-6=0/218

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 2 and 38 lb uplift at joint 4.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



November 30,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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)

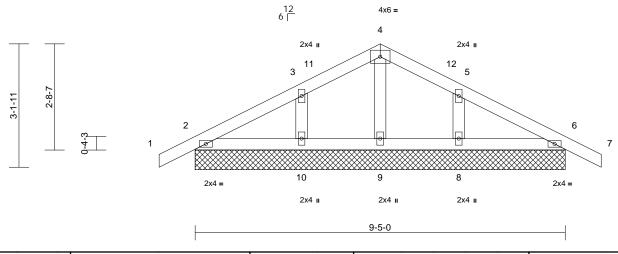


Job	Truss	Truss Type	Qty	Ply	Dogwood A - Lot 10 - Fairground Farms	
3769916	C03	Common Supported Gable	1	1	Job Reference (optional)	l62287197

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Thu Nov. 30 08:26:17 ID:tdGaA?hdVfHZInVm?LNeCUzCvq9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

-0-11	0 4-8-8	9-5-0	10-4-0
0-11	0 4-8-8	4-8-8	0-11-0



Scale = 1:29.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-S								
BCDL	10.0										Weight: 40 lb	FT = 20%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 2=9-5-0, 6=9-5-0, 8=9-5-0,

9=9-5-0, 10=9-5-0 Max Horiz 2=-40 (LC 13)

Max Uplift 2=-18 (LC 12), 6=-25 (LC 13),

8=-45 (LC 13), 10=-46 (LC 12) 2=173 (LC 1), 6=173 (LC 1), 8=242

Max Grav (LC 20), 9=120 (LC 1), 10=242 (LC

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/43, 2-3=-55/46, 3-4=-50/55,

4-5=-50/49, 5-6=-50/33, 6-7=0/43 **BOT CHORD** 2-10=0/38, 9-10=0/38, 8-9=0/38, 6-8=0/38

4-9=-92/0, 3-10=-183/76, 5-8=-183/75 WFBS

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this 5) design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 23.1 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.
- * 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 1-00-00 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 2, 25 lb uplift at joint 6, 46 lb uplift at joint 10 and 45 lb uplift at joint 8.
- 13) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



November 30,2023

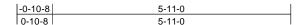
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

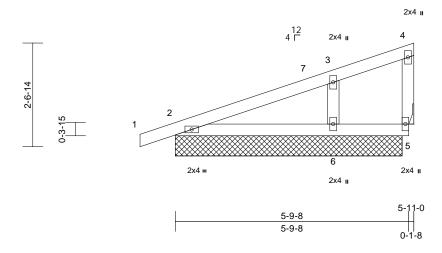
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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	Ply	Dogwood A - Lot 10 - Fairground Farms	
3769916	M01	Monopitch Supported Gable	1	1	Job Reference (optional)	l62287198

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Thu Nov. 30 08:26:17 ID:1ZARwv53FHCj3gTTjGjiRRzCvXZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:28.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.01	2-6	>999	240	MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	2-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	n/a	-	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-P								
BCDL	10.0										Weight: 24 lb	FT = 20%

LUMBER

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

2x4 SP No.2 *Except* 6-3:2x4 SP No.3 **OTHERS**

BRACING

Structural wood sheathing directly applied or TOP CHORD

5-11-0 oc purlins.

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

bracing.

REACTIONS (size) 2=5-7-8, 5=5-7-8, 6=5-7-8

Max Horiz 2=76 (LC 8)

Max Uplift 2=-31 (LC 8), 5=-4 (LC 8), 6=-47

(IC 12)

Max Grav 2=204 (LC 1), 5=27 (LC 19), 6=352

(LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/28, 2-3=-56/49, 3-4=-38/3, 4-5=-24/6

2-6=0/0, 5-6=0/0

BOT CHORD WFBS 3-6=-271/96

NOTES

TOP CHORD

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow): Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 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 1-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 6 SP No.2 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 2, 4 lb uplift at joint 5 and 47 lb uplift at joint 6.
- 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.

LOAD CASE(S) Standard



Page: 1

November 30,2023

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

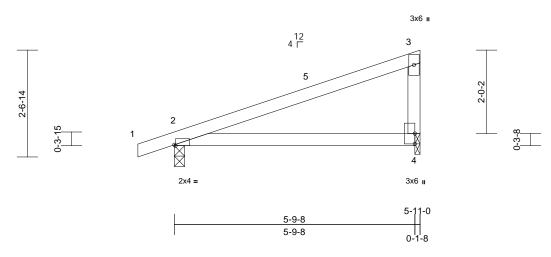
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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	Dogwood A - Lot 10 - Fairground Farms	
3769916	M02	Monopitch	4	1	Job Reference (optional)	l62287199

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Nov 30 08:26:17 ID:H5o7WQpi7jmCGu3?Esoms4zCvWd-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:27.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.02	2-4	>999	240	MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.05	2-4	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-R								
BCDL	10.0										Weight: 22 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-11-0 oc purlins.

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

bracing.

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

Max Horiz 2=76 (LC 8)

Max Uplift 2=-49 (LC 8), 4=-35 (LC 12)

Max Grav 2=321 (LC 19), 4=259 (LC 19) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=0/29, 2-3=-217/0, 3-4=-172/60

TOP CHORD

BOT CHORD 2-4=-21/150

NOTES

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 6) * 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 1-00-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 2 and 35 lb uplift at joint 4.
- 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.

LOAD CASE(S) Standard



November 30,2023

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

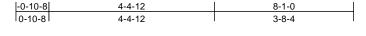
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

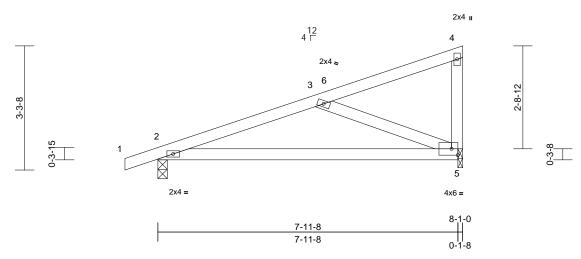


Job	Truss	Truss Type	Qty	Ply	Dogwood A - Lot 10 - Fairground Farms	
3769916	M03	Monopitch	3	1	Job Reference (optional)	162287200

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Thu Nov. 30 08:26:17 ID:qQ4lheUiJJU_fhtH63lMnTzCvTB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:30.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.22	2-5	>420	240	MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.45	2-5	>210	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-P								
BCDL	10.0										Weight: 35 lb	FT = 20%

LUMBER

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

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=0-3-0, 5=0-1-8 Max Horiz 2=100 (LC 8)

Max Uplift 2=-54 (LC 8), 5=-49 (LC 12)

Max Grav 2=418 (LC 19), 5=373 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/29, 2-3=-523/106, 3-4=-57/29,

4-5=-122/36

BOT CHORD 2-5=-160/458 WEBS 3-5=-489/171

NOTES

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct = 1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 2 and 49 lb uplift at joint 5.
- 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.

LOAD CASE(S) Standard



November 30,2023

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

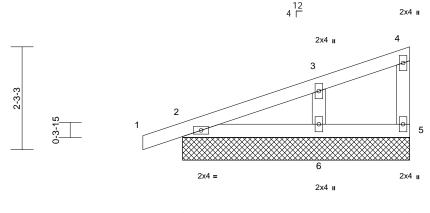
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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	Dogwood A - Lot 10 - Fairground Farms	
3769916	M04	Monopitch Supported Gable	3	1	Job Reference (optional)	l62287201

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Nov 30 08:26:18 ID:7m0x92Z5gTM??mvd11N?ZyzCvT4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1





5-0-0 Scale = 1:25.4

-		1		1	-							-	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999			
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	n/a	-	n/a	n/a			
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-P		1							
DCDI	10.0	l		1							14/a:ab4. 20 lb	ET 200/	

LUMBER

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

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

5-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing

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

Max Horiz 2=66 (LC 8)

Max Uplift 2=-31 (LC 8), 5=-8 (LC 8), 6=-36

(LC 12)

2=174 (LC 1), 5=52 (LC 19), 6=268 Max Grav

(LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/28, 2-3=-47/35, 3-4=-31/9, 4-5=-43/14

BOT CHORD 2-6=0/0, 5-6=0/0 **WEBS** 3-6=-204/74

NOTES

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 23.1 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.
- 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 1-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 5, 31 lb uplift at joint 2 and 36 lb uplift at joint 6.
- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



November 30,2023

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

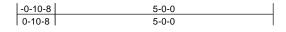
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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)

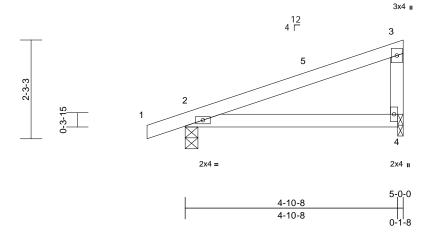


Job	Truss	Truss Type	Qty	Ply	Dogwood A - Lot 10 - Fairground Farms	162287202	
3769916	M05	Monopitch	8	1	Job Reference (optional)		

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Nov 30 08:26:18 ID:nLGvFyvHrN0tzEdCDdOpE3zCvSd-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:26.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.01	2-4	>999	240	MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.03	2-4	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-R								
BCDL	10.0										Weight: 19 lb	FT = 20%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

5-0-0 oc purlins.

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

bracing.

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

Max Horiz 2=66 (LC 8)

Max Uplift 2=-48 (LC 8), 4=-29 (LC 12)

Max Grav 2=282 (LC 19), 4=210 (LC 19) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/29, 2-3=-174/0, 3-4=-140/50

BOT CHORD 2-4=-16/118

NOTES

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 1-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 2 and 29 lb uplift at joint 4.
- 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.

LOAD CASE(S) Standard



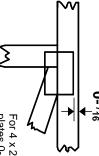
November 30,2023

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 × 4

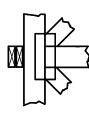
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

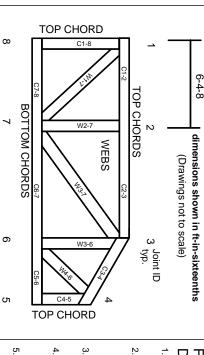
Industry Standards:

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

Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-22:

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.

© 2023 MiTek® All Rights Reserved

MiTek



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

▲ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

œ

- 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.