

RE: 22030208

DRB GROUP - 117 FARM AT NEILLS CREEK

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: 22030208

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

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

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.5

Wind Code: ASCE 7-16 Wind Speed: 130 mph Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 33 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	150445636	A01	2/26/2022	21	150445656	J03	2/26/2022
2	150445637	A02	2/26/2022	22	150445657	PB1	2/26/2022
3	150445638	B01	2/26/2022	23	150445658	PB2	2/26/2022
4	150445639	B02	2/26/2022	24	150445659	PB3	2/26/2022
5	150445640	B03	2/26/2022	25	150445660	PB4	2/26/2022
6	150445641	C01	2/26/2022	26	150445661	PB5	2/26/2022
7	150445642	C02	2/26/2022	27	150445662	PB6	2/26/2022
8	150445643	D01	2/26/2022	28	150445663	V1	2/26/2022
9	150445644	D02	2/26/2022	29	150445664	V2	2/26/2022
10	150445645	E01	2/26/2022	30	150445665	V3	2/26/2022
11	150445646	E02	2/26/2022	31	150445666	V4	2/26/2022
12	150445647	G01	2/26/2022	32	150445667	V5	2/26/2022
13	150445648	G02	2/26/2022	33	150445668	V6	2/26/2022
14	150445649	G03	2/26/2022				
15	150445650	H01	2/26/2022				
16	150445651	H02	2/26/2022				
17	150445652	H03	2/26/2022				

2/26/2022

2/26/2022

2/26/2022

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

Truss Engineering Co. under my direct supervision

based on the parameters provided by Carter Components (Sanford, NC)).

H04

J01

J02

Truss Design Engineer's Name: Johnson, Andrew

My license renewal date for the state of North Carolina is December 31, 2022

North Carolina COA: C-0844

150445653

150445654

150445655

18

19

20

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.



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	A01	Piggyback Base	7	1	Job Reference (optional)

Run: 8.53 S. Dec. 6.2021 Print: 8.530 S.Dec. 6.2021 MiTek Industries. Inc. Thu Feb. 24.21:23:37 ID:vmWSYKxMeSKeeaoGnh3QrczhvSE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

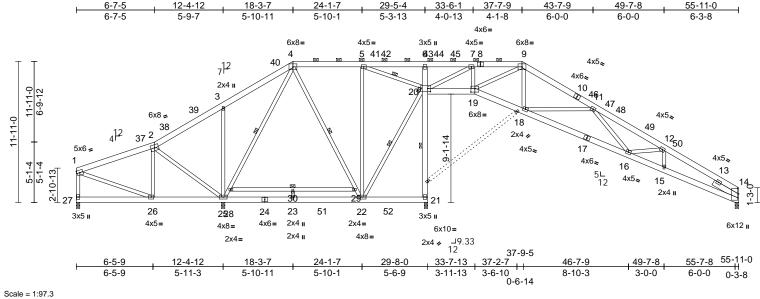


Plate Offsets (X, Y): [14:0-5-11,0-0-15], [19:0-4-0,0-3-8], [20:0-2-12,0-3-0]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.19	16-18	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.34	16-18	>945	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.09	14	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 502 lb	FT = 20%

LUMBER

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

2x6 SP No.2 *Except* 17-14:2x6 SP 2400F

2.0E **WEBS** 2x4 SP No.3 *Except*

25-4,22-5,22-4,28-29,20-22:2x4 SP No.2

SLIDER Right 2x6 SP No.2 -- 2-6-0

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or

3-2-10 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-9.

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

bracing. Except:

4-10-0 oc bracing: 20-21 1 Row at midpt 4-25, 4-22, 28-29, 20-22,

5-20

JOINTS 1 Brace at Jt(s): 20

REACTIONS (lb/size) 14=929/0-3-8, 21=2018/0-3-8,

25=1398/0-3-8, 27=317/0-3-8

Max Horiz 27=272 (LC 11) Max Uplift

14=-194 (LC 15), 25=-80 (LC 14), 27=-103 (LC 10)

14=1150 (LC 52), 21=2265 (LC Max Grav

47), 25=1651 (LC 34), 27=453 (LC

43)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-261/121, 2-3=-74/390, 3-4=-26/403 4-5=-174/289, 5-6=-69/1607, 6-7=-75/1585,

7-9=-515/180 9-11=-1538/358

11-12=-3161/683, 12-14=-2984/710, 1-27=-381/143

BOT CHORD 26-27=-247/192, 25-26=-164/195,

23-25=-115/203, 22-23=-115/203,

21-22=-14/0, 20-21=-2229/126, 6-20=-389/110, 19-20=-86/613,

18-19=0/1273, 16-18=-394/2711

15-16=-535/2751. 14-15=-529/2598

1-26=-78/138, 2-26=-11/150, 2-25=-426/205,

3-25=-669/259, 7-20=-2139/290,

7-19=-35/1033, 9-19=-1005/208

9-18=-120/922, 11-18=-1311/420, 25-28=-539/59, 4-28=-517/72, 5-22=-29/629,

4-29=-87/132, 22-29=-109/105, 28-30=-20/0,

29-30=-20/0, 23-30=0/46, 20-22=-165/409,

5-20=-1704/391, 11-16=-19/559,

12-16=0/296, 12-15=-351/72

NOTES

WFBS

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 5-7-0 to 11-2-2. Interior (1) 11-2-2 to 17-10-0, Exterior(2R) 17-10-0 to 29-6-11, Interior (1) 29-6-11 to 37-5-12, Exterior(2R) 37-5-12 to 48-7-15, Interior (1) 48-7-15 to 55-9-2, Exterior(2E) 55-9-2 to 61-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 200.0lb AC unit load placed on the bottom chord, 18-3-8 from left end, supported at two points, 5-0-0 apart.

- 6) Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- 10) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 27, 25, and 14. This connection is for uplift only and does not consider lateral forces
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or



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Continued on page 2

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 ANS/ITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



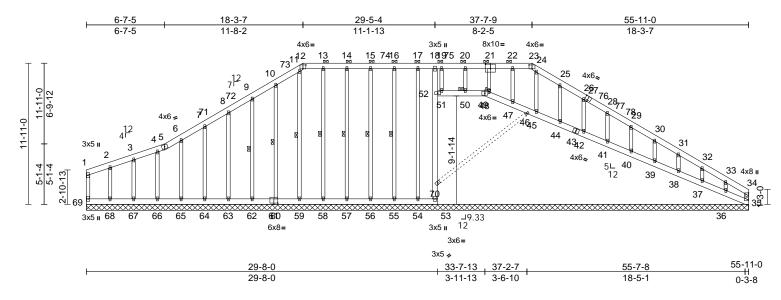
Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	A01	Piggyback Base	7	1	I50445636 Job Reference (optional)

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Thu Feb 24 21:23:37 ID: vmWSYKxMeSKee aoGnh3QrczhvSE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff Page: 2

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	A02	Piggyback Base Supported Gable	1	1	Job Reference (optional)

Run: 8.53 S. Dec. 6.2021 Print: 8.530 S.Dec. 6.2021 MiTek Industries. Inc. Thu Feb. 24.21:23:40 ID:ACS0SGCfmETEfJzgbpcWMMzhrbI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?fd Page: 1



Scale = 1:97.3

Plate Offsets (X, Y):	[12:0-3-0,0-3-12], [2	21:0-5-0,0-4-8], [23:0-3-0,0-3-	2], [27:0-3-0,Edge], [61:0-4-0,0-1-4]
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Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.43	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.57	Horiz(TL)	-0.04	35	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 532 lb	FT = 20%

LL	JM	В	E	R

TOP CHORD 2x6 SP No.2 **BOT CHORD** 2x6 SP No.2 WFBS 2x4 SP No.3 **OTHERS** 2x4 SP No.3 *Except*

59-11,58-13,57-14,56-15,55-16,54-17:2x4 SP

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.): 12-23.

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

bracing.

WFBS 1 Row at midpt 9-62, 10-60, 11-59,

13-58, 14-57, 15-56,

16-55

JOINTS 1 Brace at Jt(s): 49,

REACTIONS (lb/size) 35=68/55-11-0, 36=148/55-11-0,

37=157/55-11-0, 38=155/55-11-0, 39=155/55-11-0, 40=154/55-11-0,

41=156/55-11-0, 42=154/55-11-0, 44=143/55-11-0, 45=-352/55-11-0,

46=753/55-11-0, 52=460/55-11-0, 53=-9/55-11-0, 54=34/55-11-0,

55=143/55-11-0, 56=162/55-11-0, 57=155/55-11-0, 58=155/55-11-0, 59=152/55-11-0, 60=155/55-11-0, 62=155/55-11-0, 63=155/55-11-0,

64=155/55-11-0, 65=155/55-11-0, 66=157/55-11-0, 67=155/55-11-0,

68=156/55-11-0, 69=66/55-11-0,

70=-14/55-11-0 Max Horiz 69=277 (LC 13) Max Uplift 35=-68 (LC 11), 36=-136 (LC 15),

37=-31 (LC 15), 38=-53 (LC 15), 39=-48 (LC 15), 40=-49 (LC 15), 41=-48 (LC 15), 42=-50 (LC 15),

44=-59 (LC 15), 45=-594 (LC 39) 46=-421 (LC 11), 52=-109 (LC 11),

53=-147 (LC 13), 54=-140 (LC 10),

55=-50 (LC 11), 56=-33 (LC 10), 57=-31 (LC 11), 58=-12 (LC 10),

60=-42 (LC 14), 62=-55 (LC 14), 63=-49 (LC 14), 64=-48 (LC 14),

65=-51 (LC 14), 66=-46 (LC 14), 67=-48 (LC 10), 68=-107 (LC 11)

69=-70 (LC 10), 70=-133 (LC 10) Max Grav

35=107 (LC 30), 36=235 (LC 52), 37=157 (LC 1), 38=165 (LC 52),

39=194 (LC 46), 40=236 (LC 46), 41=233 (LC 46), 42=232 (LC 46),

44=233 (LC 46), 45=196 (LC 10), 46=1101 (LC 39), 52=607 (LC 39),

53=125 (LC 10), 54=227 (LC 13), 55=164 (LC 39), 56=224 (LC 39),

57=219 (LC 39), 58=211 (LC 39), 59=178 (LC 42), 60=236 (LC 42),

62=235 (LC 42), 63=233 (LC 42), 64=235 (LC 42), 65=193 (LC 42),

66=186 (LC 43), 67=219 (LC 43), 68=221 (LC 43), 69=118 (LC 24). 70=186 (LC 13)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-69=-70/48, 1-2=-58/61, 2-3=-51/69, 3-4=-60/92, 4-5=-74/118, 5-6=-72/129,

6-7=-100/178, 7-8=-118/221, 8-9=-136/274, 9-10=-158/352, 10-11=-177/424, 11-12=-156/379, 12-13=-161/406,

13-14=-161/406, 14-15=-161/406, 15-16=-161/406, 16-17=-161/406,

17-18=-161/406, 18-19=-162/393, 19-20=-162/393, 20-22=-162/395,

22-23=-162/395, 23-24=-156/369, 24-25=-174/408, 25-26=-158/334,

26-28=-137/257, 28-29=-119/207, 29-30=-101/163, 30-31=-82/127,

31-32=-90/129, 32-33=-98/129, 33-34=-147/158, 34-35=-100/90



February 26,2022

FORCES



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	A02	Piggyback Base Supported Gable	1	1	Job Reference (optional)

Run: 8.53 S. Dec. 6.2021 Print: 8.530 S.Dec. 6.2021 MiTek Industries, Inc. Thu Feb. 24.21:23:40 ID:ACS0SGCfmETEfJzgbpcWMMzhrbI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 2

16) N/A

BOT CHORD 68-69=-216/158 67-68=-216/158 66-67=-216/158, 65-66=-216/158, 64-65=-216/158, 63-64=-216/158, 62-63=-216/158, 60-62=-216/158, 59-60=-216/158, 58-59=-216/158, 57-58=-216/158, 56-57=-216/158, 55-56=-216/158, 54-55=-216/158,

53-54=-216/158, 53-70=0/0, 52-70=0/0, 18-52=-481/160, 51-52=-63/104, 50-51=-63/104, 49-50=-63/104, 48-49=-69/101, 47-48=-67/111, 46-47=-135/129, 45-46=-178/314, 44-45=-159/127, 42-44=-157/125, 41-42=-158/125, 40-41=-157/125, 39-40=-157/125, 38-39=-158/125,

37-38=-156/124, 36-37=-161/128, 35-36=-139/112

2-68=-181/81, 3-67=-181/62, 4-66=-147/75, 6-65=-154/75, 7-64=-197/72, 8-63=-194/82, 9-62=-197/132, 10-60=-197/119,

11-59=-139/11, 13-58=-172/34, 14-57=-181/98, 15-56=-184/72, 16-55=-131/48, 17-54=-25/71, 19-51=-15/38,

20-50=-93/54, 21-48=0/33, 22-47=-302/79, 24-45=-162/4, 25-44=-178/125,

26-42=-197/128, 28-41=-193/77, 29-40=-198/72, 30-39=-156/72, 31-38=-124/73, 32-37=-117/65, 33-36=-158/114, 46-70=-302/217

NOTES

WEBS

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 5-7-0 to 11-5-4, Exterior(2N) 11-5-4 to 18-1-9, Corner(3R) 18-1-9 to 29-5-4, Exterior (2N) 29-5-4 to 37-5-4, Corner(3R) 37-5-4 to 48-7-15, Exterior(2N) 48-7-15 to 55-5-4, Corner(3E) 55-5-4 to 61-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- 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.
- 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) Bearing at joint(s) 52, 70 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 147 lb uplift at joint 53, 109 lb uplift at joint 52 and 421 lb uplift at joint 46
- 15) N/A

- 17) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 45, 44, 42, 41, 40, 39, 38, 37, 36, 46,
- 18) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 19) 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	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	B01	Roof Special	4	1	Job Reference (optional)

14-11-5

Carter Components (Sanford), Sanford, NC - 27332

Run: 8.53 S. Dec. 6.2021 Print: 8.530 S.Dec. 6.2021 MiTek Industries. Inc. Thu Feb. 24.21:23:41 ID:wEsxu2PHLUbbwrpGGIKVTFzhpmq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

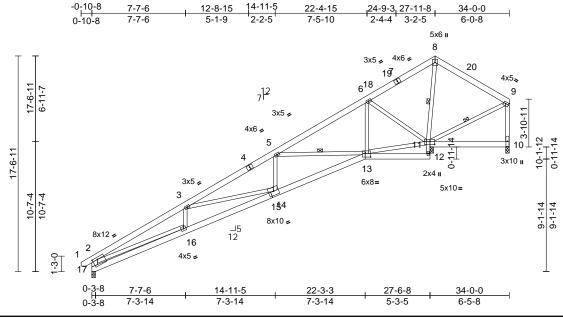


Plate Offsets (X, Y): [2:0-5-0,0-2-0], [9:Edge,0-1-12], [11:0-4-8,0-3-0], [13:0-5-4,0-3-8]

7-7-6

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	0.60	Vert(LL)	0.12	14-16	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.23	14-16	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.05	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 269 lb	FT = 20%

LUMBER

Scale = 1:93.8

TOP CHORD 2x6 SP No 2

2x6 SP No.2 *Except* 12-11:2x4 SP No.3, **BOT CHORD**

11-10:2x6 SP 2400F 2.0E

WFBS 2x4 SP No.3 *Except* 17-2:2x6 SP No.2 BRACING

TOP CHORD

Structural wood sheathing directly applied or 4-7-14 oc purlins, except end verticals.

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

bracing. WFBS

1 Row at midpt 5-13, 8-11, 9-11 REACTIONS (lb/size) 10=-956/0-3-8, 11=2848/0-3-8,

17=853/0-3-8

Max Horiz 17=465 (LC 14)

Max Uplift 10=-1090 (LC 34), 11=-664 (LC 14)

10=305 (LC 14), 11=2985 (LC 21), Max Grav

17=859 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/27. 2-3=-2238/440. 3-5=-1308/229.

> 5-6=-162/551, 6-8=-326/1517, 8-9=-278/1333, 2-17=-985/267,

9-10=-263/1142

BOT CHORD 16-17=-636/819, 14-16=-815/2186,

13-14=-455/1271, 12-13=-86/8, 11-12=0/88,

10-11=-42/49

WEBS 3-16=-42/160, 3-14=-856/336, 5-14=-8/483,

5-13=-1446/460, 6-13=-125/710, 11-13=-299/75, 6-11=-1106/362,

8-11=-1679/369, 2-16=-176/1347,

9-11=-1225/328

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-1 to 2-8-12, Interior (1) 2-8-12 to 24-6-11. Exterior(2R) 24-6-11 to 30-5-7. Exterior(2E) 30-5-7 to 33-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; 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 1.00 times flat roof load of 20.0 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.
- Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1090 lb uplift at joint 10.
- 10) H10A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11. This connection is for uplift only and does not consider lateral forces
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

12) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.

LOAD CASE(S) Standard



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	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	B02	Piggyback Base	3	1	I50445639 Job Reference (optional)

Run: 8.53 S. Dec. 6.2021 Print: 8.530 S.Dec. 6.2021 MiTek Industries. Inc. Thu Feb. 24.21:23:41 ID:pLkbZTU6Oqpz5W7NzURNa0zhpIR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

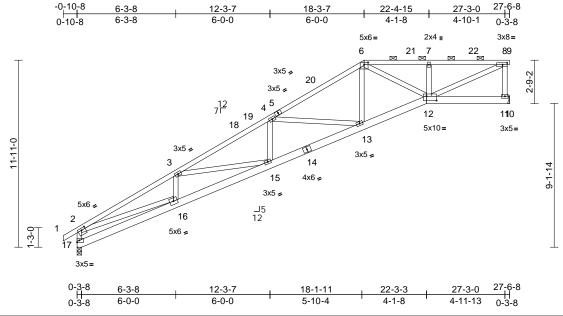


Plate Offsets (X, Y): [2:0-3-0,0-1-8], [6:0-3-0,0-1-12], [8:0-3-8,0-1-8], [12:0-7-8,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.22	15-16	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.42	15-16	>784	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.15	11	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 175 lb	FT = 20%

LUMBER

Scale = 1:73.4

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

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

BRACING

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

(3-4-7 max.): 6-9.

BOT CHORD Rigid ceiling directly applied or 7-8-2 oc

bracing.

REACTIONS (lb/size) 11=1106/ Mechanical, 17=1146/0-3-8

17=395 (LC 14) Max Horiz

Max Uplift 11=-141 (LC 14), 17=-78 (LC 14)

Max Grav 11=1175 (LC 35), 17=1220 (LC 36)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/31, 2-3=-3351/621, 3-4=-3311/591, 4-6=-2198/366, 6-7=-1862/318,

7-8=-1883/323, 8-9=0/0, 2-17=-1259/306

BOT CHORD 16-17=-538/538, 15-16=-920/3045, 13-15=-761/3046, 12-13=-393/1888,

11-12=0/0, 10-11=0/0

WEBS 4-13=-1053/332, 6-13=-115/674,

6-12=-115/458, 7-12=-476/144, 8-12=-358/2087, 2-16=-365/2543,

8-11=-1110/185, 3-16=-320/145,

3-15=-169/146, 4-15=0/275

NOTES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 15-3-7, Exterior(2R) 15-3-7 to 21-3-7, Interior (1) 21-3-7 to 24-6-8, Exterior(2E) 24-6-8 to 27-6-8 zone; cantilever left and right exposed; end vertical left and right exposed C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: 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 1.00 times flat roof load of 20.0 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.
- Refer to girder(s) for truss to truss connections.
- 10) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 11.
- 12) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 17. This connection is for uplift only and does not consider lateral forces.

- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

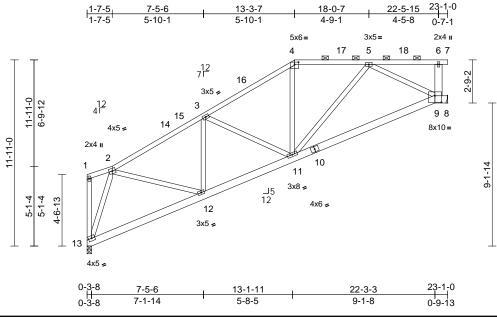


February 26,2022



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	B03	Piggyback Base	3	1	Job Reference (optional)

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Thu Feb 24 21:23:42 ID:XuVw4mrM?Ew4XkguX?Re7ezhpjh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:73.7

Plate Offsets (X, Y): [4:0-3-0,0-1-12], [9:0-5-0,0-5-0]

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	0.65	Vert(LL)	-0.16	9-11	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.35	9-11	>778	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 165 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2

BOT CHORD 2x6 SP No.2 *Except* 10-9:2x6 SP 2400F

2.0E

WEBS 2x4 SP No.3 *Except* 6-9:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-3-4 oc purlins, except end verticals, and 2-0-0 oc purlins (5-9-12 max.): 4-7

BOT CHORD Rigid ceiling directly applied or 9-6-6 oc

bracing.

REACTIONS (lb/size) 8=919/ Mechanical, 13=915/0-3-8

Max Horiz 13=237 (LC 11)

Max Uplift 8=-155 (LC 11), 13=-24 (LC 14)

Max Grav 8=1050 (LC 38), 13=966 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-13=-44/45, 1-2=-78/81, 2-3=-1297/316,

3-4=-1229/344, 4-5=-923/347, 5-6=-9/20,

6-7=0/0

BOT CHORD 12-13=-460/449, 11-12=-515/1185,

9-11=-347/920, 8-9=0/0

3-11=-213/156, 4-11=-15/315, 5-11=-66/387,

5-9=-1011/367, 6-9=-211/97,

2-13=-1076/235, 2-12=-52/765,

3-12=-436/125

NOTES

WEBS

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 1-7-5, Interior (1) 1-7-5 to 10-3-7, Exterior(2R) 10-3-7 to 16-3-7, Interior (1) 16-3-7 to 20-1-0, Exterior(2E) 20-1-0 to 23-1-0 zone; cantilever left and right exposed; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- 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.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 155 lb uplift at
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13. This connection is for uplift only and does not consider lateral forces.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

13) 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



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

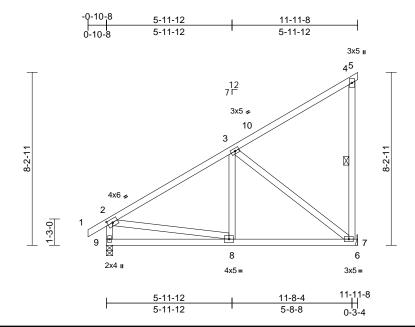
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

AMSI/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	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	C01	Monopitch	6	1	Job Reference (optional)

Run: 8.53 S. Dec. 6.2021 Print: 8.530 S.Dec. 6.2021 MiTek Industries. Inc. Thu Feb 24.21:23:43 ID:fgJGN1CBxSiq8LzfII_gKzzhpjD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:54.9

Plate Offsets (X, Y): [2:0-2-14,0-2-0]

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	0.61	Vert(LL)	-0.03	7-8	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.05	7-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 77 lb	FT = 20%

LUMBER

2x4 SP No 2 TOP CHORD 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, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt

REACTIONS (lb/size) 7=481/ Mechanical, 9=525/0-3-8

Max Horiz 9=288 (LC 11)

Max Uplift 7=-126 (LC 14), 9=-43 (LC 14)

Max Grav 7=634 (LC 21), 9=561 (LC 21)

(lb) - Maximum Compression/Maximum **FORCES**

TOP CHORD

1-2=0/31, 2-3=-559/107, 3-4=-186/106, 4-5=-13/0, 4-7=-264/64, 2-9=-508/151

BOT CHORD 8-9=-277/261, 7-8=-101/419, 6-7=0/0

WEBS 3-8=0/233, 3-7=-510/172, 2-8=0/318

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 8-11-8, Exterior(2E) 8-11-8 to 11-11-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: 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 1.00 times flat roof load of 20.0 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 7
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9. This connection is for uplift only and does not consider lateral forces.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



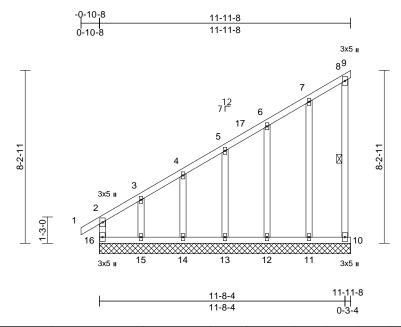
Page: 1

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Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	C02	Monopitch Supported Gable	1	1	Job Reference (optional)

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Thu Feb 24 21:23:43 ID:YRYnCOFh?hCFcyHRX82cVpzhpj9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:54.9

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	-0.04	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 84 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD 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 10-0-0 oc

bracing.

WEBS 1 Row at midpt 8-10

REACTIONS (lb/size)

9=12/11-11-8, 10=57/11-11-8, 11=156/11-11-8, 12=156/11-11-8, 13=154/11-11-8, 14=158/11-11-8, 15=141/11-11-8, 16=135/11-11-8

Max Horiz 16=280 (LC 11) Max Uplift

9=-82 (LC 14), 10=-146 (LC 13), 11=-53 (LC 14), 12=-46 (LC 14),

13=-58 (LC 14), 14=-14 (LC 14), 15=-199 (LC 14), 16=-96 (LC 10)

Max Grav 9=93 (LC 13), 10=144 (LC 10), 11=232 (LC 21), 12=223 (LC 21),

13=165 (LC 24), 14=158 (LC 1), 15=237 (LC 24), 16=256 (LC 29)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-16=-199/75, 1-2=0/30, 2-3=-259/166,

3-4=-184/120, 4-5=-170/109, 5-6=-154/98, 6-7=-145/99, 7-8=-109/117, 8-9=-87/66,

8-10=-145/105

BOT CHORD 15-16=-115/144, 14-15=-115/144,

13-14=-115/144, 12-13=-115/144,

11-12=-115/144, 10-11=-115/144 **WEBS** 5-13=-124/105, 4-14=-119/83,

3-15=-157/205, 6-12=-185/118, 7-11=-193/57

Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 1-11-12, Exterior (2N) 1-11-12 to 11-11-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 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).
- 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 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 82 lb uplift at joint

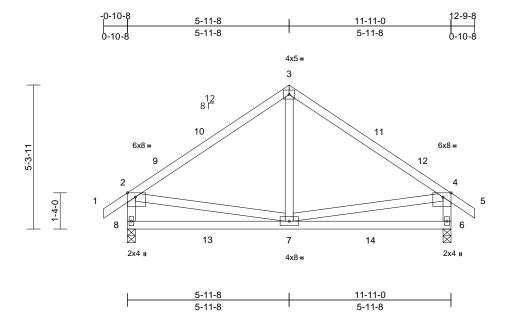


February 26,2022



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	D01	Common Supported Gable	5	1	I50445643 Job Reference (optional)

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Thu Feb 24 21:23:44 ID:U5CzCuUcXWbZOtE48eu3mpzhpis-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:42.4

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

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	0.91	Vert(LL)	0.05	7-8	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.05	7-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 69 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, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size) 6=526/0-3-8, 8=526/0-3-8

Max Horiz 8=145 (LC 13)

Max Uplift 6=-56 (LC 15), 8=-56 (LC 14) Max Grav 6=619 (LC 22), 8=619 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-566/356, 1-2=0/34, 2-3=-539/408, 3-4=-539/408, 4-5=0/34, 4-6=-566/356

BOT CHORD 7-8=-173/252, 6-7=-115/252

WFBS 3-7=-284/208, 4-7=-92/249, 2-7=-88/249

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 2-11-8, Exterior(2R) 2-11-8 to 8-11-8, Interior (1) 8-11-8 to 9-9-8, Exterior(2E) 9-9-8 to 12-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 4) 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 1.00 times flat roof load of 20.0 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 6. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 26,2022

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 chorembers 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, rerection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Edenton, NC 27932

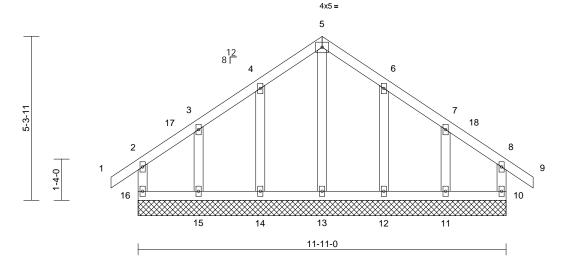
Page: 1

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	D02	Common Supported Gable	1	1	I50445644 Job Reference (optional)

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Thu Feb 24 21:23:44 ID:MsRT1GX6al6_tUXrNTz?wfzhpio-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:37.3

Loading	(psf)	Spacing	1-11-4	csı		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)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 69 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD 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 (lb/size)

10=131/11-11-0, 11=141/11-11-0, 12=165/11-11-0, 13=146/11-11-0, 14=165/11-11-0, 15=141/11-11-0, 16=131/11-11-0

Max Horiz 16=-141 (LC 12)

Max Uplift 10=-46 (LC 14), 11=-80 (LC 15),

12=-53 (LC 15), 14=-52 (LC 14),

15=-82 (LC 14), 16=-53 (LC 10)

10=143 (LC 24), 11=200 (LC 22), Max Grav

12=256 (LC 22), 13=161 (LC 27), 14=256 (LC 21), 15=200 (LC 21),

16=149 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 2-16=-118/157, 1-2=0/33, 2-3=-77/96, 3-4=-75/173, 4-5=-113/248, 5-6=-113/248,

6-7=-75/173, 7-8=-68/96, 8-9=0/33,

8-10=-117/157

BOT CHORD 15-16=-71/68, 14-15=-71/68, 13-14=-71/68,

12-13=-71/68, 11-12=-71/68, 10-11=-71/68 **WEBS**

5-13=-197/32, 4-14=-217/112,

3-15=-162/117, 6-12=-217/112, 7-11=-162/117

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 1-11-8, Exterior(2N) 1-11-8 to 2-11-8, Corner(3R) 2-11-8 to 8-11-8, Exterior (2N) 8-11-8 to 9-9-8, Corner(3E) 9-9-8 to 12-9-8 zone; cantilever left and right exposed; end vertical left and right exposed: C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; 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 1.00 times flat roof load of 20.0 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.
- 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) N/A

14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

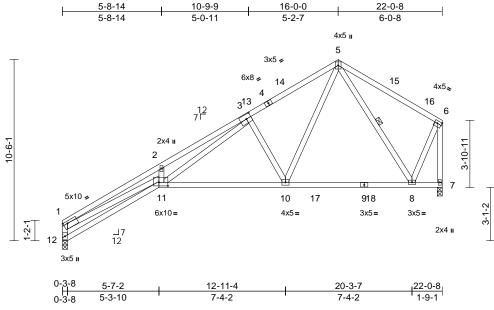


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	E01	Roof Special	6	1	Job Reference (optional)

Run: 8.53 S. Dec. 6.2021 Print: 8.530 S.Dec. 6.2021 MiTek Industries. Inc. Thu Feb 24.21:23:44 ID:0AA0YMgemRcHJKS94?AqQBzhpic-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:66.9 Plate Offsets (X, Y): [1:0-3-0,0-1-8], [3:0-3-8,0-3-0], [6:Edge,0-1-12], [11:0-6-4,0-2-8]

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	0.83	Vert(LL)	-0.35	10-11	>743	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.66	10-11	>398	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.37	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 133 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 1-4:2x4 SP 2400F

2.0E

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* 11-1,11-3:2x4 SP No.2 BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or 3-2-8 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc

bracing.

WFBS 1 Row at midpt 5-8

REACTIONS (lb/size) 7=870/0-3-8, 12=870/0-3-8

Max Horiz 12=276 (LC 11)

Max Uplift 7=-102 (LC 14), 12=-81 (LC 14) Max Grav 7=1018 (LC 23), 12=990 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-12=-1131/252, 1-2=-4862/853,

> 2-3=-4844/1000. 3-5=-1337/241. 5-6=-471/135, 6-7=-1068/87

BOT CHORD 11-12=-325/549, 10-11=-256/1553,

8-10=-38/673, 7-8=-52/47 **WEBS**

1-11=-657/4070, 2-11=-235/193, 3-11=-803/3455, 3-10=-846/300,

5-10=-183/1164, 5-8=-600/107, 6-8=-18/827

NOTES

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 13-0-0. Exterior(2R) 13-0-0 to 18-10-12. Exterior(2E) 18-10-12 to 21-10-12 zone: cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: 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 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 12 and 7. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 26,2022

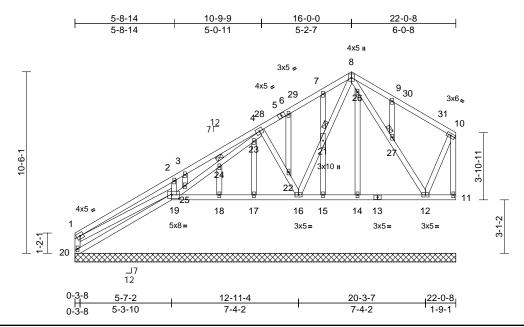
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
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a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate 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 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	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	E02	Roof Special	1	1	Job Reference (optional)

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Thu Feb 24 21:23:44 ID:rgAQfUnjKO4NkJvevcJ9cNzhphB-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:66.7

Plate Offsets (X, Y): [19:0-5-4,0-2-8]

Loading	(psf)	Spacing	1-11-4	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.25	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.73	Horiz(TL)	-0.01	11	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 169 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc

BOT CHORD Rigid ce bracing.

JOINTS 1 Brace at Jt(s): 21,

24, 27

REACTIONS (lb/size)

11=49/22-0-8, 12=184/22-0-8, 14=337/22-0-8, 15=102/22-0-8, 16=210/22-0-8, 17=99/22-0-8, 18=32/22-0-8, 19=491/22-0-8, 20=181/22-0-8

Max Horiz 20=267 (LC 11)

Max Uplift 11=-10 (LC 11), 14=-108 (LC 15),

15=-54 (LC 14), 16=-76 (LC 14), 19=-208 (LC 14), 20=-38 (LC 10)

Max Grav 11=64 (LC 21), 12=233 (LC 21), 14=495 (LC 21), 15=211 (LC 20), 16=306 (LC 20), 17=106 (LC 7),

18=71 (LC 7), 19=550 (LC 23), 20=244 (LC 24)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-20=-186/70, 1-2=-116/111, 2-3=-148/78,

3-4=-127/104, 4-6=-92/76, 6-7=-79/100, 7-8=-94/133, 8-9=-81/122, 9-10=-72/78,

10-11=-52/7

BOT CHORD 19-20=-305/329, 18-19=-107/129,

17-18=-107/129, 16-17=-107/129, 15-16=-101/113, 14-15=-101/113, 12-14=-101/113, 11-12=-46/51

WEBS 1-19=-161/150, 2-19=-395/231,

19-25=-71/46, 24-25=-72/47, 23-24=-77/52, 4-23=-111/51, 4-22=-182/148, 16-22=-255/178, 16-21=-74/62, 8-21=-77/65,

8-26-271/38, 26-27-92/105, 12-27-67/24, 10-12-114/85, 7-21-199/65, 15-21-196/63, 6-22-100/35, 17-23-58/7.

18-24=-8/9, 3-25=-1/6, 14-26=-426/148, 9-27=-202/77

NOTES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 13-0-0, Exterior(2R) 13-0-0 to 18-10-12, Exterior(2E) 18-10-12 to 21-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; c-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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).
- 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.

Page: 1

- 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 208 lb uplift at joint 19.
- 13) N/A
- 14) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 19, 16, 12, 11, 15, 17, 18, 14.
- 15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

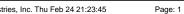


February 26,2022



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	G01	Attic	3	1	Job Reference (optional)

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Thu Feb 24 21:23:45 ID:wN9MV2a7ngO0fSyKmTVeHIzhpg9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



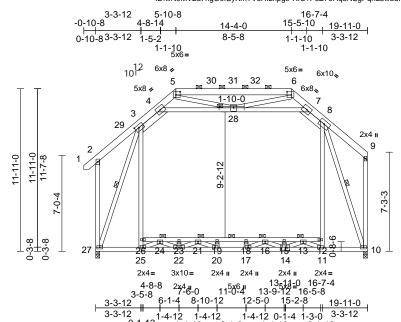


Plate Offsets (X, Y): [3:0-3-8,0-2-4], [5:0-3-12,0-2-12], [6:0-3-12,0-2-12], [14:0-3-4,0-3-0]

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	0.73	Vert(LL)	-0.23	18-19	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.38	18-19	>624	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.06	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		Attic	-0.20	12-26	>795	360		
BCDL	10.0										Weight: 239 lb	FT = 20%

1-4-12

1-4-12

LUMBER

TOP CHORD 2x6 SP No 2

BOT CHORD 2x4 SP No.2 *Except* 27-14:2x4 SP No.1 **WEBS**

2x4 SP No.3 *Except* 3-25,8-11,4-7:2x4 SP

No.2, 3-4,7-8:2x6 SP No.2 BRACING

FORCES

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-14 max.): 5-6.

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

bracing. Except:

2-10-0 oc bracing: 16-21 3-9-0 oc bracing: 21-24

3-11-0 oc bracing: 13-16 10-0-0 oc bracing: 24-26, 12-13

WFBS 1 Row at midpt 8-10, 3-27

JOINTS 1 Brace at Jt(s): 13,

24, 16, 21, 28

REACTIONS (lb/size) 10=1138/0-3-8, 27=1189/0-3-8

Max Horiz 27=358 (LC 13)

Max Grav 10=1500 (LC 46), 27=1572 (LC 46)

(lb) - Maximum Compression/Maximum Tension

1-2=0/52, 2-3=-314/273, 3-4=-660/148,

4-5=-1003/346, 5-6=-983/117, 6-7=-973/339,

7-8=-661/162, 8-9=-291/232, 2-27=-467/254,

9-10=-358/238

BOT CHORD 25-27=-91/548, 22-25=-5/1654,

20-22=0/3362, 17-20=0/3867, 11-17=0/3346,

10-11=-71/532, 24-26=-95/227,

23-24=-2165/0, 21-23=-2165/0,

19-21=-3446/0, 18-19=-3446/0,

16-18=-3446/0, 15-16=-2115/0,

13-15=-2086/0. 12-13=-105/245

WEBS

3-3-12

_ 0-1-12

25-26=0/858, 3-26=0/1025, 11-12=0/854, 8-12=0/1031, 8-10=-1624/81, 4-28=-502/547, 7-28=-539/493, 3-27=-1608/59,

2-1-8

1-4-12 0-1-4 1-3-0

1-4-12

3-3-12

0-1-12

11-13=-1440/0, 24-25=-1459/0, 13-14=0/1093, 22-24=0/1125, 14-15=-192/0,

22-23=-160/0, 14-16=-893/0, 21-22=-867/0, 16-17=-15/617, 20-21=0/590, 17-18=-204/0,

19-20=-197/0. 6-28=-212/410. 5-28=-188/407

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-5 to 2-3-11, Exterior(2R) 2-3-11 to 16-7-4, Exterior(2E) 16-7-4 to 19-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are 3x5 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.

- 10) Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-28, 7-28: Wall dead load (5.0psf) on member(s), 3-26, 8-12
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 24-26, 23-24, 21-23, 19-21, 18-19, 16-18, 15-16, 13-15, 12-13
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



February 26,2022



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	G02	Attic	6	1	Job Reference (optional)

Run: 8.53 S. Dec. 6.2021 Print: 8.530 S.Dec. 6.2021 MiTek Industries. Inc. Thu Feb. 24.21:23:46 ID:PwMtYSc3X5EpzgXspX1pmRzhpep-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

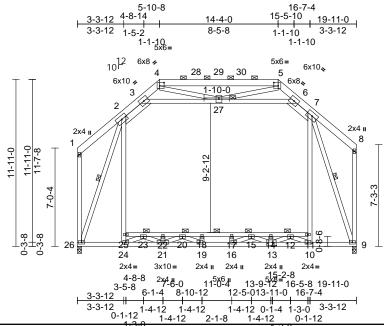


Plate Offsets (X, Y): [4:0-3-12,0-2-12], [5:0-3-12,0-2-12], [13:0-3-4,0-3-0]

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	0.73	Vert(LL)	-0.23	17-18	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.38	17-18	>623	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.06	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		Attic	-0.20	11-25	>795	360		
BCDL	10.0										Weight: 237 lb	FT = 20%

LUMBER

Scale = 1:82.3

TOP CHORD 2x6 SP No 2 BOT CHORD

2x4 SP No.2 *Except* 26-13:2x4 SP No.1 **WEBS** 2x4 SP No.3 *Except* 2-24,7-10,3-6:2x4 SP

No.2, 2-3,6-7:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-14 max.): 4-5.

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

bracing. Except:

2-10-0 oc bracing: 15-20 3-9-0 oc bracing: 20-23 3-11-0 oc bracing: 12-15 10-0-0 oc bracing: 23-25, 11-12

WFBS 1 Row at midpt 7-9, 2-26

JOINTS 1 Brace at Jt(s): 12,

23, 15, 20, 27

REACTIONS 9=1139/0-3-8, 26=1138/0-3-8 (lb/size)

Max Horiz 26=347 (LC 11)

Max Grav 9=1501 (LC 45), 26=1506 (LC 45)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-301/227, 2-3=-660/144, 3-4=-1003/343,

4-5=-982/118, 5-6=-972/342, 6-7=-662/147,

7-8=-288/234, 1-26=-382/233, 8-9=-352/241

BOT CHORD 24-26=-88/547, 21-24=0/1655,

12-14=-2085/0, 11-12=-101/246

19-21=0/3363, 16-19=0/3868, 10-16=0/3346, 9-10=-68/531, 23-25=-98/223, 22-23=-2166/0, 20-22=-2166/0, 18-20=-3446/0. 17-18=-3446/0. 15-17=-3446/0. 14-15=-2114/0.

WEBS

24-25=0/857, 2-25=0/1024, 10-11=0/854, 7-11=0/1031, 7-9=-1622/71, 3-27=-501/546, 6-27=-542/490, 2-26=-1592/70, 10-12=-1440/0, 23-24=-1459/0, 12-13=0/1093, 21-23=0/1125, 13-14=-192/0,

21-22=-160/0. 13-15=-894/0. 20-21=-867/0. 15-16=-10/618, 19-20=0/586, 16-17=-204/0, 18-19=-197/0, 4-27=-193/399, 5-27=-203/406

NOTES Unbalanced roof live loads have been considered for this design

Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-3-12, Exterior (2R) 3-3-12 to 16-7-4, Exterior(2E) 16-7-4 to 19-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10

Unbalanced snow loads have been considered for this design.

Provide adequate drainage to prevent water ponding. All plates are 3x5 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.

Ceiling dead load (5.0 psf) on member(s). 2-3, 6-7, 3-27, 6-27; Wall dead load (5.0psf) on member(s).2-25, 7-11

10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 23-25, 22-23, 20-22, 18-20, 17-18, 15-17, 14-15, 12-14, 11-12

11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

13) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



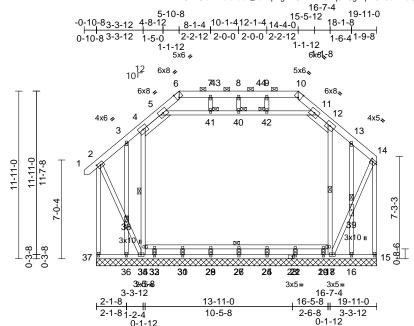
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

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	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	G03	Attic Supported Gable	1	1	Job Reference (optional)

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Thu Feb 24 21:23:47 ID:mTC1KUi0mrxofallau1_zozhpVg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:81.9

Plate Offsets (X, Y): [2:0-2-14,0-2-0], [6:0-2-8,Edge], [10:0-2-8,Edge], [14:0-2-0,0-1-12], [23:0-1-8,0-1-8]

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	-0.01	15	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 234 lb	FT = 20%

LUMBER TOP CHORD 2x6 SP No 2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* 5-11:2x4 SP No.2,

4-5,11-12:2x6 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, and

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

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

bracing. Except:

10-0-0 oc bracing: 18-34 1 Row at midpt 4-35, 12-17

WFBS **JOINTS** 1 Brace at Jt(s): 38,

39, 40, 41, 42

REACTIONS (lb/size)

15=261/19-11-0, 16=95/19-11-0, 17=206/19-11-0, 20=75/19-11-0, 22=76/19-11-0, 25=78/19-11-0,

> 27=77/19-11-0, 29=77/19-11-0, 31=78/19-11-0, 33=70/19-11-0, 35=213/19-11-0. 36=112/19-11-0.

37=298/19-11-0

Max Horiz 37=329 (LC 13)

Max Uplift 15=-277 (LC 11), 16=-42 (LC 14), 17=-233 (LC 10), 35=-370 (LC 11),

36=-28 (LC 14), 37=-281 (LC 10)

Max Grav 15=389 (LC 47), 16=212 (LC 50), 17=323 (LC 50), 20=197 (LC 21),

22=239 (LC 21), 25=231 (LC 21), 27=233 (LC 21), 29=231 (LC 21),

31=240 (LC 21), 33=196 (LC 21), 35=429 (LC 48), 36=197 (LC 50),

37=422 (LC 49)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-37=-384/270, 1-2=0/50, 2-3=-173/210,

3-4=-168/238, 4-5=-360/246, 5-6=-955/253, 6-7=-893/240, 7-8=-893/240, 8-9=-893/240,

9-10=-893/240, 10-11=-959/253, 11-12=-364/246, 12-13=-176/226,

13-14=-174/188, 14-15=-354/258 **BOT CHORD** 36-37=-300/262, 35-36=-300/262,

33-35=-186/146, 31-33=-186/146,

29-31=-186/146, 27-29=-186/146, 25-27=-186/146, 22-25=-186/146,

20-22=-186/146, 17-20=-186/146, 16-17=-95/115, 15-16=-95/115, 32-34=-6/6, 30-32=-6/6, 28-30=-6/6, 26-28=-6/6,

24-26=-6/6, 21-24=-6/6, 19-21=-6/6,

18-19=-6/6

WFBS 3-38=-98/79, 32-33=-98/0, 30-31=-120/0,

28-29=-115/0. 26-27=-117/0. 24-25=-115/0. 21-22=-119/0, 19-20=-102/0, 16-39=-118/83,

5-41=-172/790, 40-41=-172/790, 40-42=-172/790, 11-42=-172/790, 34-35=-453/144, 4-34=-455/146, 17-18=-394/118, 12-18=-411/118, 8-40=-127/37, 7-41=-19/57, 9-42=-19/61.

2-38=-290/322, 35-38=-338/378. 17-39=-239/271, 14-39=-283/320,

36-38=-143/78, 13-39=-140/89

NOTES

Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-8-5 to 2-1-8, Exterior(2N) 2-1-8 to 2-10-8, Corner(3R) 2-10-8 to 8-10-8, Exterior (2N) 8-10-8 to 11-4-0, Corner(3R) 11-4-0 to 16-7-4, Corner(3E) 16-7-4 to 19-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Page: 1

- 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.



February 26,2022

Continued on page 2

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	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	G03	Attic Supported Gable	1	1	Job Reference (optional)

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Thu Feb 24 21:23:47

Page: 2

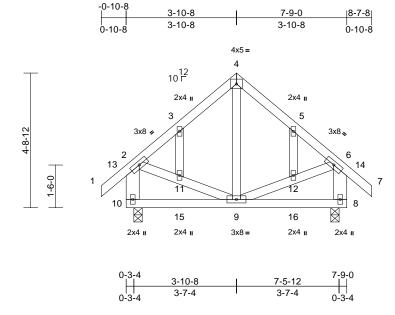
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on
- overhangs non-concurrent with other live loads. Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 11) Gable studs spaced at 2-0-0 oc.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13) * 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.
- 14) Ceiling dead load (5.0 psf) on member(s). 4-5, 11-12, 5-41, 40-41, 40-42, 11-42; Wall dead load (5.0psf) on member(s).34-35, 4-34, 17-18, 12-18
- N/A 15)
- 16) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 17) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 18) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	H01	Common	1	1	I50445650 Job Reference (optional)

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Thu Feb 24 21:23:48 ID:odQRt_LKkd3VzU9QYSTuUUzhpTY-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:40.5

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	0.01	8-9	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.01	8-9	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.00	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 58 lb	FT = 20%

LUMBER

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

2x4 SP No.3 *Except* 10-2,8-6:2x6 SP No.2 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 10-0-0 oc

8=347/0-3-8, 10=347/0-3-8 REACTIONS (lb/size)

Max Horiz 10=-135 (LC 12)

Max Uplift 8=-36 (LC 15), 10=-36 (LC 14)

Max Grav 8=462 (LC 22), 10=462 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/53, 2-3=-289/266, 3-4=-204/303, 4-5=-204/303, 5-6=-289/266, 6-7=0/53,

2-10=-428/319, 6-8=-428/319

BOT CHORD 9-10=-120/133, 8-9=-19/61

4-9=-252/105. 2-11=-44/126. 9-11=-49/126.

9-12=-52/126, 6-12=-46/126, 3-11=-55/34,

5-12=-55/34

NOTES

WFBS

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 1-10-8, Exterior (2R) 1-10-8 to 5-10-8, Exterior(2E) 5-10-8 to 8-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10 and 8. This connection is for uplift only and does not consider lateral forces.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



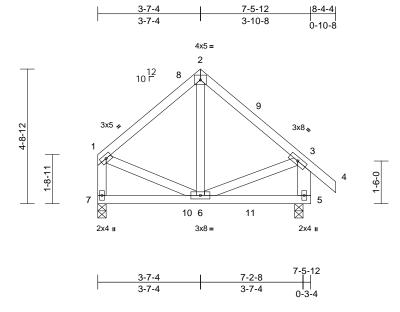
February 26,2022



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	H02	Common	3	1	I50445651 Job Reference (optional)

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Thu Feb 24 21:23:48 ID:1RaY1JHdbHmaiJXEZ7Mx6jzhpSL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:40.5

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	0.41	Vert(LL)	0.01	5-6	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.01	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 49 lb	FT = 20%

LUMBER

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

2x4 SP No.3 *Except* 5-3:2x6 SP No.2 WEBS

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 (lb/size) 5=356/0-3-8, 7=279/0-3-8

Max Horiz 7=-134 (LC 10)

Max Uplift 5=-36 (LC 15), 7=-25 (LC 10)

Max Grav 5=436 (LC 22), 7=373 (LC 21) (lb) - Maximum Compression/Maximum

FORCES

Tension

TOP CHORD 1-2=-262/274, 2-3=-285/276, 3-4=0/42,

1-7=-347/280, 3-5=-408/324

BOT CHORD 6-7=-118/123, 5-6=-23/25

WFBS 2-6=-203/97 1-6=-112/142 3-6=-37/139

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Exterior (2R) 3-1-12 to 5-4-4, Exterior(2E) 5-4-4 to 8-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1 00: 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 1.00 times flat roof load of 20.0 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 5. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



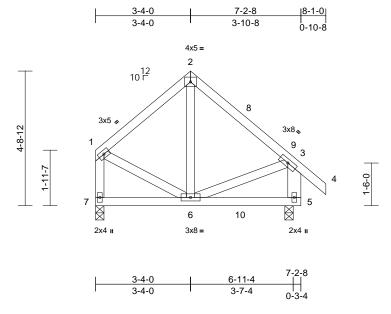
February 26,2022



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	H03	Common	1	1	I50445652 Job Reference (optional)

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Thu Feb 24 21:23:49 ID:DqG8vucB?ulc3cgcC?sVEdzhpRv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:40.5

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	0.37	Vert(LL)	0.01	5-6	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.01	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 48 lb	FT = 20%

LUMBER

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

2x4 SP No.3 *Except* 5-3:2x6 SP No.2 WEBS

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 (lb/size) 5=345/0-3-8, 7=268/0-3-8

Max Horiz 7=-137 (LC 12)

Max Uplift 5=-35 (LC 15), 7=-29 (LC 10)

Max Grav 5=411 (LC 22), 7=353 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension 1-2=-239/267, 2-3=-264/259, 3-4=0/42,

TOP CHORD

1-7=-330/280, 3-5=-382/311

BOT CHORD 6-7=-117/124, 5-6=-23/25 WFBS 2-6=-193/87 1-6=-112/134 3-6=-37/129

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-5-0 to 3-7-4, Exterior(2R) 3-7-4 to 5-4-4, Exterior(2E) 5-4-4 to 8-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1 00: Ct=1 10
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15
- 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 1.00 times flat roof load of 20.0 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 5. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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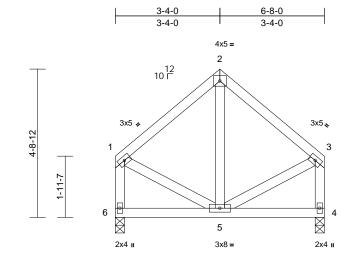
Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	H04	Common	2	1	I50445653 Job Reference (optional)

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Thu Feb 24 21:23:49 ID:pX6RsgnziB3dlmlI0x6npazhpRh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

6-8-0

3-4-0

Page: 1



Scale = 1:36.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	0.01	5-6	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.01	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 44 lb	FT = 20%

3-4-0

3-4-0

LUMBER

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

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 (lb/size) 4=255/0-3-8, 6=255/0-3-8

Max Horiz 6=-122 (LC 10)

Max Uplift 4=-28 (LC 11), 6=-28 (LC 10)

Max Grav 4=321 (LC 21), 6=321 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-213/235, 2-3=-213/235, 1-6=-296/248,

3-4=-296/248 **BOT CHORD** 5-6=-114/109, 4-5=-29/32

WEBS 2-5=-157/70, 1-5=-80/117, 3-5=-80/117

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: 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 2-00-00 wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6 and 4. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

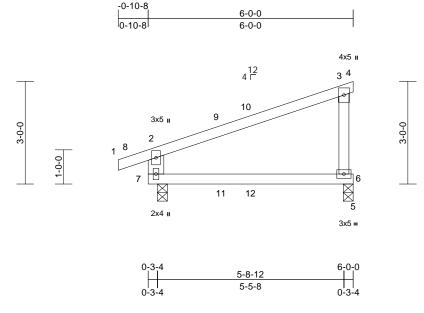
LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	J01	Monopitch	6	1	Job Reference (optional)

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Thu Feb 24 21:23:49 ID:H_CEdq?GTjK3vX7m4jR0XNzhpRP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:33.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	0.09	6-7	>714	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	0.08	6-7	>879	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 25 lb	FT = 20%

LUMBER

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

2x4 SP No.3 *Except* 7-2:2x6 SP No.2 WEBS

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 (lb/size) 6=236/0-3-8, 7=292/0-3-8

Max Horiz 7=109 (LC 13)

Max Uplift 6=-92 (LC 10), 7=-116 (LC 10)

Max Grav 6=322 (LC 21), 7=395 (LC 21)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/28, 2-3=-177/130, 3-4=-8/0, 3-6=-239/164, 2-7=-362/276

6-7=-96/95, 5-6=0/0

BOT CHORD

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) 1) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 3-0-0, Exterior(2E) 3-0-0 to 6-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; 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 1.00 times flat roof load of 20.0 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6 and 7. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

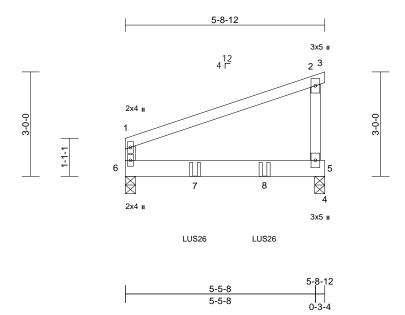
LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	J02	Monopitch Girder	1	2	Job Reference (optional)

Run: 8.53 S. Dec. 6.2021 Print: 8.530 S.Dec. 6.2021 MiTek Industries. Inc. Thu Feb 24.21:23:49 ID:pKhjZ7PzisUOMc86V9WINKzhpQu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:33.1

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.03	5-6	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.04	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 53 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 2x4 SP No.3 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-8-12 oc purlins, except end verticals.

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

bracing. REACTIONS

(lb/size) 5=607/0-3-8 6=533/0-3-8

Max Horiz 6=96 (LC 32)

Max Uplift 5=-109 (LC 8), 6=-87 (LC 8)

Max Grav 5=690 (LC 18), 6=607 (LC 18) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=-231/32, 2-3=-7/0, 2-5=-225/73,

1-6=-256/64

BOT CHORD 5-6=-47/159, 4-5=0/0

NOTES

TOP CHORD

- 2-ply truss to be connected together as follows: 1) Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc. Bottom chords connected with 10d (0.131"x3") nails as follows: 2x6 - 2 rows staggered 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.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; 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 2-00-00 wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5 and 6. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-0 from the left end to 4-0-0 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=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-58, 2-3=-58, 4-6=-19 Concentrated Loads (lb)

Vert: 7=-354 (F), 8=-354 (F)



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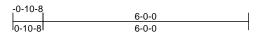
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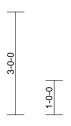


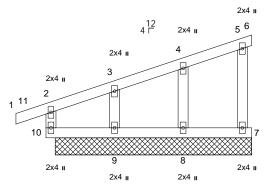
Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	J03	Monopitch Supported Gable	1	1	I50445656 Job Reference (optional)

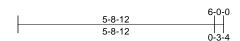
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3-0-0









Scale = 1:33.6

Loading	(psf)	Spacing	1-11-4	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 28 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD 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 10-0-0 oc

REACTIONS (lb/size)

6=3/5-8-12, 7=69/5-8-12, 8=157/5-8-12, 9=142/5-8-12,

10=138/5-8-12

Max Horiz 10=106 (LC 11)

Max Uplift 6=-28 (LC 10), 7=-22 (LC 11), 8=-24 (LC 10), 9=-56 (LC 14),

10=-23 (LC 10)

Max Grav 6=14 (LC 19), 7=96 (LC 21), 8=212

(LC 21), 9=197 (LC 21), 10=182

(LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-10=-164/127, 1-2=0/25, 2-3=-84/20,

3-4=-51/24, 4-5=-48/44, 5-6=-24/13,

5-7=-81/20

BOT CHORD 9-10=-36/43, 8-9=-36/43, 7-8=-36/43

WEBS 4-8=-174/149, 3-9=-160/194

NOTES

Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph: TCDL=6.0psf: BCDL=6.0psf: h=25ft: Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-0-0, Exterior(2N) 2-0-0 to 6-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads
- 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).
- 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 28 lb uplift at joint



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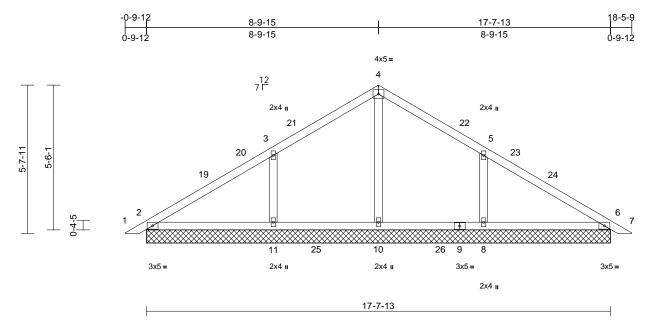
February 26,2022



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	PB1	Piggyback	7	1	Job Reference (optional)

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Thu Feb 24 21:23:50 ID:9YYG15fUx_FujtjxnlXZqfzhvJZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale = 1:43.8

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0	ļ									Weight: 75 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 directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size)

2=145/17-7-13, 6=145/17-7-13, 8=284/17-7-13, 10=126/17-7-13, 11=284/17-7-13, 12=145/17-7-13,

16=145/17-7-13

Max Horiz 2=-86 (LC 12), 12=-86 (LC 12) Max Uplift 2=-11 (LC 15), 6=-12 (LC 15), 8=-93 (LC 15), 11=-93 (LC 14),

12=-11 (LC 15), 16=-12 (LC 15)

Max Grav 2=153 (LC 25), 6=154 (LC 25), 8=367 (LC 6), 10=198 (LC 6),

11=367 (LC 5), 12=153 (LC 25), 16=154 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/11, 2-3=-95/55, 3-4=-114/82,

4-5=-114/72, 5-6=-70/29, 6-7=0/11 BOT CHORD 2-11=-17/59, 10-11=-15/59, 8-10=-15/59,

6-8=-15/59

WEBS 4-10=-111/0. 3-11=-286/119. 5-8=-286/118

NOTES

TOP CHORD

 Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-11 to 3-3-11, Interior (1) 3-3-11 to 6-8-1, Exterior(2R) 6-8-1 to 12-8-1, Interior (1) 12-8-1 to 16-0-7, Exterior(2E) 16-0-7 to 19-0-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 7) Gable requires continuous bottom chord bearing.
- 8) 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, with BCDL = 10.0psf.
- 11) N/A
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

LOAD CASE(S) Standard



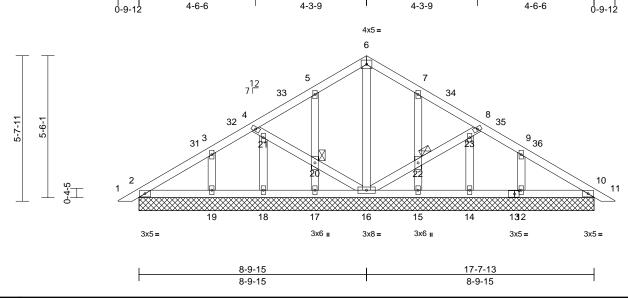
February 26,2022



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	PB2	Piggyback	1	1	I50445658 Job Reference (optional)

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Thu Feb 24 21:23:50 ID:WukUx927bYyxDT2MulOitqzhrbU-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:44.7

Plate Offsets (X, Y): [13:0-2-2,0-1-8]

Loading	(psf)	Spacing	1-11-4	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)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 103 lb	FT = 20%

LUMBER

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

JOINTS 1 Brace at Jt(s): 20,

REACTIONS (lb/size)

TOP CHORD

b/size) 2=150/17-7-13, 10=150/17-7-13, 12=209/17-7-13, 14=66/17-7-13, 15=177/17-7-13, 16=228/17-7-13, 17=177/17-7-13, 18=66/17-7-13,

19=209/17-7-13, 24=150/17-7-13, 27=150/17-7-13

Max Horiz 2=-124 (LC 12), 24=-124 (LC 12) Max Uplift 2=-13 (LC 15), 10=-15 (LC 15),

12=-57 (LC 15), 15=-60 (LC 15), 16=-7 (LC 14), 17=-60 (LC 14), 19=-60 (LC 14), 24=-13 (LC 15),

27=-15 (LC 15)

Max Grav 2=169 (LC 21), 10=169 (LC 22), 12=216 (LC 25), 14=95 (LC 22),

15=265 (LC 22), 16=245 (LC 21), 17=265 (LC 21), 18=95 (LC 21), 19=219 (LC 24), 24=169 (LC 21),

27=169 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/16, 2-3=-105/60, 3-4=-111/64,

4-5=-51/89, 5-6=-44/84, 6-7=-44/76, 7-8=-28/89, 8-9=-111/41, 9-10=-105/8,

10-11=0/16

BOT CHORD 2-19=-45/80, 18-19=-45/80, 17-18=-45/80,

16-17=-45/80, 15-16=-6/73, 14-15=-6/73,

12-14=-6/73, 10-12=-6/73

WEBS 6-16=-125/0, 16-22=-112/71, 22-23=-102/70, 8-23=-135/71, 4-21=-135/65, 20-21=-102/61, 16-20=-112/63, 5-20=-244/87,

17-20=-223/83, 18-21=-67/9, 3-19=-147/75, 7-22=-244/85, 15-22=-223/83, 14-23=-67/2, 9-12=-144/73

NOTES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-11 to 3-3-11, Interior (1) 3-3-11 to 6-8-1, Exterior(2R) 6-8-1 to 12-8-1, Interior (1) 12-8-1 to 16-0-7, Exterior(2E) 16-0-7 to 19-0-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15) Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; 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 1.00 times flat roof load of 20.0 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.

Page: 1

- 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) N/A
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



February 26,2022

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

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



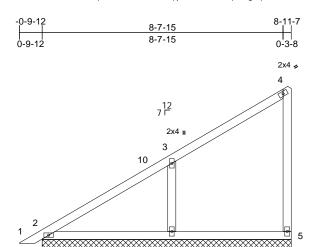
Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	PB3	Piggyback	3	1	Job Reference (optional)

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Thu Feb 24 21:23:51 ID:3ixYsQqkFxoDwa6izIwPaQzhpji-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

11

2x4 II

8-11-7



Scale = 1:41.4

Loading	(psf)	Spacing	2-0-0	CSI	· ·	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 41 lb	FT = 20%

LUMBER

2x4 SP No.2 TOP CHORD 2x4 SP No.2 BOT CHORD 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 10-0-0 oc

REACTIONS (lb/size)

2=179/8-11-7, 5=119/8-11-7, 6=438/8-11-7, 7=179/8-11-7 Max Horiz 2=190 (LC 13), 7=190 (LC 13)

Max Uplift 5=-28 (LC 11), 6=-139 (LC 14) 2=208 (LC 25), 5=202 (LC 5), Max Grav 6=575 (LC 5), 7=208 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/16, 2-3=-147/132, 3-4=-132/67,

4-5=-161/48

BOT CHORD 2-6=-84/92. 5-6=-84/92

WEBS 3-6=-444/246

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-11 to 3-3-11, Interior (1) 3-3-11 to 6-7-13, Exterior(2E) 6-7-13 to 9-7-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- Truss designed for wind loads in the plane of the truss only. For study 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

2x4=

- 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) N/A
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



February 26,2022

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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



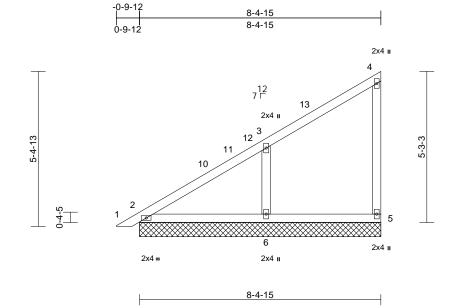
Edenton, NC 27932

Page: 1

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	PB4	Piggyback	3	1	I50445660 Job Reference (optional)

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Thu Feb 24 21:23:51 ID:tzcq8oSssDZFsCz_s3OvVbzhplT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:40.2

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)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0			1							Weight: 39 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD 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 10-0-0 oc bracing.

REACTIONS (lb/size)

2=172/8-4-15, 5=110/8-4-15, 6=411/8-4-15, 7=172/8-4-15 Max Horiz 2=179 (LC 13), 7=179 (LC 13)

Max Uplift 5=-26 (LC 11), 6=-117 (LC 14) 2=174 (LC 25), 5=173 (LC 21), Max Grav 6=542 (LC 21), 7=174 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/16, 2-3=-138/122, 3-4=-123/65,

4-5=-148/45

BOT CHORD 2-6=-80/87. 5-6=-80/87

WEBS 3-6=-426/193

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-11 to 3-3-11, Interior (1) 3-3-11 to 4-10-7, Exterior(2R) 4-10-7 to 9-1-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For study 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; 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 1.00 times flat roof load of 20.0 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.
- * 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.
- 10) N/A
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



February 26,2022

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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

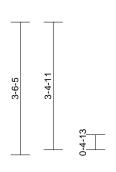


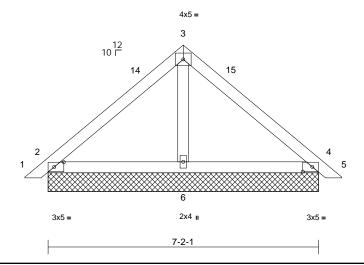
Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	PB5	Piggyback	9	1	I50445661 Job Reference (optional)

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Thu Feb 24 21:23:51 ID:__1c4MYtF38IP9oyf2SACtzhpgB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:30.6

Plate Offsets (X, Y): [2:0-3-1,0-1-8], [4:0-3-1,0-1-8]

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	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 31 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 directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size)

2=205/7-2-1, 4=205/7-2-1, 6=212/7-2-1, 7=205/7-2-1,

11=205/7-2-1

Max Horiz 2=-78 (LC 12), 7=-78 (LC 12) Max Uplift 2=-37 (LC 14), 4=-46 (LC 15),

7=-37 (LC 14), 11=-46 (LC 15)

Max Grav 2=300 (LC 21), 4=300 (LC 22), 6=228 (LC 21), 7=300 (LC 21),

11=300 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/26, 2-3=-206/113, 3-4=-206/113,

4-5=0/26

BOT CHORD 2-6=-34/82, 4-6=-24/82

WEBS 3-6=-80/0

NOTES

- Unbalanced roof live loads have been considered for 1)
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-14 to 3-2-14. Exterior (2R) 3-2-14 to 5-2-10, Exterior(2E) 5-2-10 to 8-2-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: 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 1.00 times flat roof load of 20.0 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 chord and any other members. 3-06-00 tall by 2-00-00 wide will fit between the bottom
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



February 26,2022

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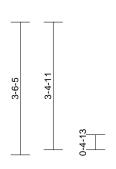


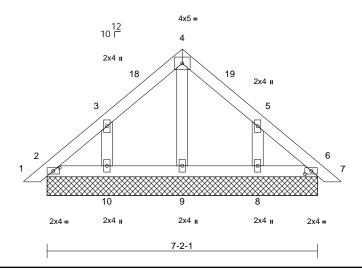
Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	PB6	Piggyback	1	1	Job Reference (optional)

Run: 8.53 S. Dec. 6.2021 Print: 8.530 S.Dec. 6.2021 MiTek Industries. Inc. Thu Feb 24.21:23:52 ID:yJrm4RdFA?Afxfl8EdwakXzhpVm-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:30.6

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

Loading	(psf)	Spacing	1-11-4	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 35 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 directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size)

2=85/7-2-1, 6=85/7-2-1, 8=165/7-2-1, 9=104/7-2-1, 10=165/7-2-1, 11=85/7-2-1,

15=85/7-2-1

Max Horiz 2=-76 (LC 12), 11=-76 (LC 12) Max Uplift 2=-9 (LC 10), 8=-87 (LC 15),

10=-87 (LC 14), 11=-9 (LC 10) 2=127 (LC 21), 6=127 (LC 22), Max Grav

8=252 (LC 22), 9=111 (LC 21),

10=252 (LC 21), 11=127 (LC 21), 15=127 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/25, 2-3=-59/53, 3-4=-100/84, 4-5=-100/84, 5-6=-46/34, 6-7=0/25

BOT CHORD 2-10=-24/77, 9-10=-24/77, 8-9=-24/77,

6-8=-24/77

WEBS 4-9=-73/0, 3-10=-209/155, 5-8=-209/155

NOTES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-14 to 3-2-14, Exterior (2R) 3-2-14 to 5-2-10. Exterior(2E) 5-2-10 to 8-2-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; 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 1.00 times flat roof load of 20.0 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) N/A
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

LOAD CASE(S) Standard



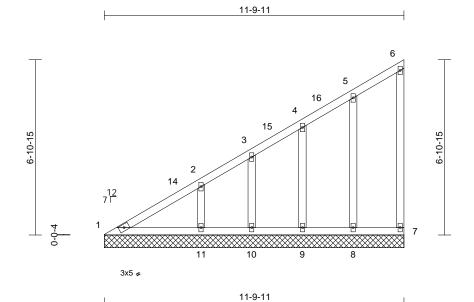
February 26,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
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Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	V1	Valley	1	1	Job Reference (optional)

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Thu Feb 24 21:23:52 ID:obl8CR79AVIhJxhIYr2zsHzhpM4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scal	le =	1:45	4

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 67 lb	FT = 20%

LUMBER

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

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

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

Rigid ceiling directly applied or 10-0-0 oc

REACTIONS (lb/size) 1=121/11-9-11, 7=59/11-9-11,

8=160/11-9-11, 9=169/11-9-11, 10=96/11-9-11, 11=299/11-9-11

Max Horiz 1=229 (LC 11)

Max Uplift 1=-3 (LC 10), 7=-32 (LC 11), 8=-52 (LC 14), 9=-50 (LC 14), 10=-40 (LC

14), 11=-74 (LC 14)

Max Grav 1=152 (LC 24), 7=87 (LC 20),

8=239 (LC 20), 9=238 (LC 20), 10=104 (LC 20), 11=306 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-241/135, 2-3=-153/93, 3-4=-132/85,

4-5=-125/83, 5-6=-93/94, 6-7=-72/26

BOT CHORD 1-11=-98/177, 10-11=-98/124, 9-10=-98/124,

8-9=-98/124, 7-8=-98/124

WEBS 5-8=-200/74, 4-9=-192/123, 3-10=-95/82,

2-11=-199/157

NOTES

Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-7 to 3-0-7, Exterior(2N) 3-0-7 to 8-8-6, Corner(3E) 8-8-6 to 11-8-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint



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February 26,2022

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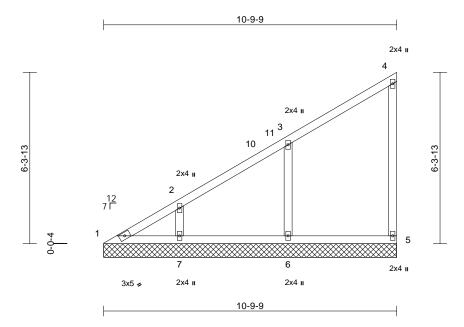
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job		Truss	Truss Type	Qty	Ply	DRB GROUP - 117 FARM AT NEILLS CREEK
2203	30208	V2	Valley	1	1	Job Reference (optional)

Run: 8.53 S. Dec. 6.2021 Print: 8.530 S.Dec. 6.2021 MiTek Industries. Inc. Thu Feb. 24.21:23:52 ID:gMYf1oAgDjo6oY?3nh7v07zhpM0-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



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Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 49 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD 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 10-0-0 oc bracing.

REACTIONS (lb/size)

1=80/10-9-9, 5=122/10-9-9, 6=339/10-9-9, 7=286/10-9-9

Max Horiz 1=208 (LC 11)

Max Uplift 1=-13 (LC 10), 5=-31 (LC 11), 6=-60 (LC 14), 7=-79 (LC 14)

Max Grav 1=120 (LC 28), 5=202 (LC 5),

6=488 (LC 5), 7=337 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-184/123, 2-3=-146/106, 3-4=-127/77,

4-5=-153/43

BOT CHORD 1-7=-88/116 6-7=-88/98 5-6=-88/98 3-6=-381/139, 2-7=-215/123 WFBS

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-7 to 2-10-0, Interior (1) 2-10-0 to 6-5-5, Exterior(2R) 6-5-5 to 10-8-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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.
- * 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 13 lb uplift at joint

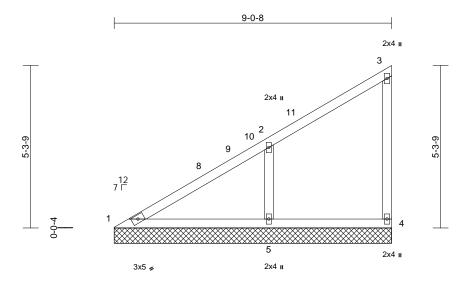


February 26,2022

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	V3	Valley	1	1	Job Reference (optional)

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Thu Feb 24 21:23:53 ID:dlfQSUCwlL2q1s9Sv59O5YzhpM_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



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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	1.15	TC	0.37	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.25	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 39 lb	FT = 20%

9-0-8

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD 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 10-0-0 oc bracing.

1=162/9-0-8, 4=103/9-0-8, REACTIONS (lb/size)

5=446/9-0-8

Max Horiz 1=178 (LC 11)

Max Uplift 4=-28 (LC 11), 5=-113 (LC 14)

Max Grav 1=170 (LC 28), 4=169 (LC 20),

5=570 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-270/126, 2-3=-123/63, 3-4=-148/42

BOT CHORD 1-5=-77/235, 4-5=-77/85

WFBS 2-5=-435/173

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-7 to 3-0-7, Interior (1) 3-0-7 to 4-8-4, Exterior(2R) 4-8-4 to 8-11-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- 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.
- * 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.



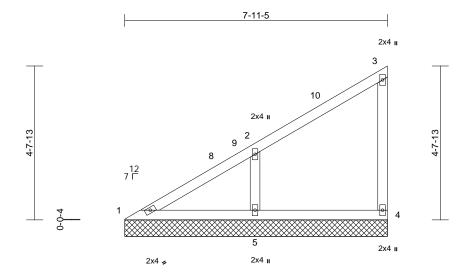
February 26,2022



Job		Truss	Truss Type	Qty	Ply	DRB GROUP - 117 FARM AT NEILLS CREEK
220302	208	V4	Valley	1	1	I50445666 Job Reference (optional)

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Thu Feb 24 21:23:53 ID:Z7nAtADAHyIYGAIq0WBsBzzhpLy-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34.8

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	0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 33 lb	FT = 20%

7-11-5

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 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 10-0-0 oc bracing.

1=120/7-11-5, 4=115/7-11-5, REACTIONS (lb/size)

5=389/7-11-5

Max Horiz 1=155 (LC 11)

Max Uplift 4=-25 (LC 11), 5=-105 (LC 14)

Max Grav 1=132 (LC 24), 4=178 (LC 20),

5=521 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-203/112, 2-3=-115/57, 3-4=-151/44

BOT CHORD 1-5=-70/163, 4-5=-70/76

WFBS 2-5=-412/184

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-7 to 3-0-7, Interior (1) 3-0-7 to 3-7-1, Exterior(2R) 3-7-1 to 7-9-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- 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.
- * 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.

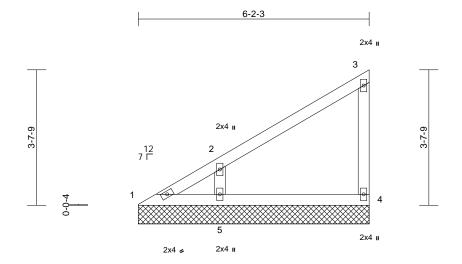


February 26,2022



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	V5	Valley	1	1	Job Reference (optional)

Run: 8.53 S. Dec. 6.2021 Print: 8.530 S.Dec. 6.2021 MiTek Industries. Inc. Thu Feb 24.21:23:53 ID:VWvwlsFRpZYGWTSD8xEKGOzhpLw-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale - 1:30 9		

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	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 25 lb	FT = 20%

6-2-3

ш	M	IR	F	R

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

REACTIONS (lb/size) 1=36/6-2-3, 4=125/6-2-3,

5=321/6-2-3

Max Horiz 1=119 (LC 11)

Max Uplift 1=-10 (LC 10), 4=-27 (LC 14),

5=-90 (LC 14) Max Grav 1=59 (LC 28), 4=186 (LC 20),

5=464 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-113/98, 2-3=-114/58, 3-4=-153/45

BOT CHORD 1-5=-55/60. 4-5=-55/60

WEBS 2-5=-412/207

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- Unbalanced snow loads have been considered for this design.
- 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.
- * 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 10 lb uplift at joint

February 26,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

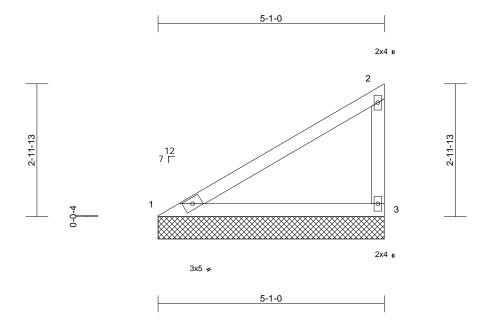
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 117 FARM AT NEILLS CREEK
22030208	V6	Valley	1	1	Job Reference (optional)

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Thu Feb 24 21:23:53 ID:OH8R8DIxto2i?5m_NnIGQEzhpLs-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale	= 1	:25.9

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	0.52	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.53	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 19 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-1-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 1=198/5-1-0, 3=198/5-1-0

Max Horiz 1=96 (LC 11)

Max Uplift 1=-17 (LC 14), 3=-46 (LC 14)

Max Grav 1=292 (LC 20), 3=292 (LC 20) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-452/82, 2-3=-200/64

BOT CHORD 1-3=-81/383

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph: TCDL=6.0psf: BCDL=6.0psf: h=25ft: Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 17 lb uplift at joint



February 26,2022



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 20/20 software or upon request.

PLATE SIZE



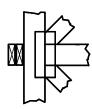
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



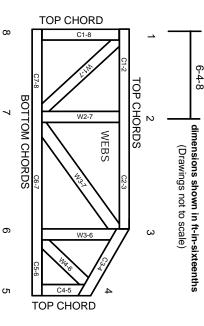
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

Industry Standards:

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 & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

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 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.

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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.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- 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.
- 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.
- 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.