

RE: 2173409 - H&H/Venture/Lot2/NewHorizons/Lillington

Trenco
 818 Soundside Rd
 Edenton, NC 27932

Site Information:

Project Customer: A AND G RESIDENTIAL Project Name: 2173409

Lot/Block: Subdivision:

Model:

Address:

City: State: NC

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

Design Code: IRC2015/TPI2014

Design Program: MiTek 20/20 8.2

Wind Code: ASCE 7-10 Wind Speed: 130 mph

Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-10

Roof Load: 40.0 psf

Floor Load: N/A psf

Mean Roof Height (feet): 25

Exposure Category: C

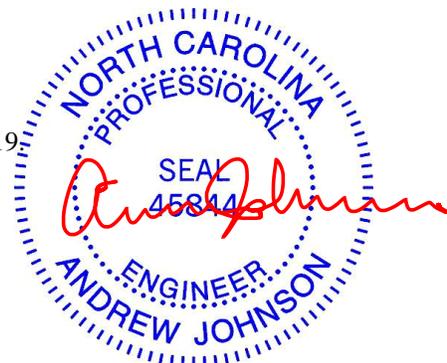
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I39540935	A01	12/9/19	35	I39540969	V01	12/9/19
2	I39540936	A02	12/9/19				
3	I39540937	A03	12/9/19				
4	I39540938	A04	12/9/19				
5	I39540939		12/9/19				
6	I39540940	A06	12/9/19				
7	I39540941	A07	12/9/19				
8	I39540942	A08	12/9/19				
9	I39540943	A09	12/9/19				
10	I39540944	A10	12/9/19				
11	I39540945	A11	12/9/19				
12	I39540946	A12	12/9/19				
13	I39540947	A13	12/9/19				
14	I39540948		12/9/19				
	I39540949	A15	12/9/19				
16	I39540950	A16	12/9/19				
17	I39540951	A17	12/9/19				
18	I39540952	B01	12/9/19				
19	I39540953	B02	12/9/19				
20	I39540954	H01	12/9/19				
21	I39540955	H02	12/9/19				
22	I39540956	H03	12/9/19				
23	I39540957	J01	12/9/19				
	I39540958	J01A	12/9/19				
25	I39540959	J02	12/9/19				
26	I39540960	J02A	12/9/19				
27	I39540961	J03	12/9/19				
28	I39540962	J03A	12/9/19				
29	I39540963	J04	12/9/19				
30	I39540964	J04A	12/9/19				
31	I39540965	J05	12/9/19				
32	I39540966	J06	12/9/19				
	I39540967	J07	12/9/19				
34	I39540968	J10	12/9/19				

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

Truss Design Engineer's Name: Johnson, Andrew

My license renewal date for the state of North Carolina is December 31, 2019.

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



December 9, 2019

Job 2173409	Truss A01	Truss Type Hip Girder	Qty 1	Ply 1	H&H/Venture/Lot2/NewHorizons/Lillington 139540935
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Builders FirstSource, Sumter, SC - 29153,

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ID:be0DwDII4HqVt2cDPS6iUUYOt3D-O4hVZ5GtC_Mr3ThqSMaRhbh_b_c6Kp4kSXWpHyAiT7

-0-10-8	6-1-12	12-3-12	18-5-12	25-1-8	31-9-4	37-11-0	38-9-8
0-10-8	6-1-12	6-2-0	6-2-0	6-7-12	6-7-12	6-1-12	0-10-8

Scale = 1:67.8

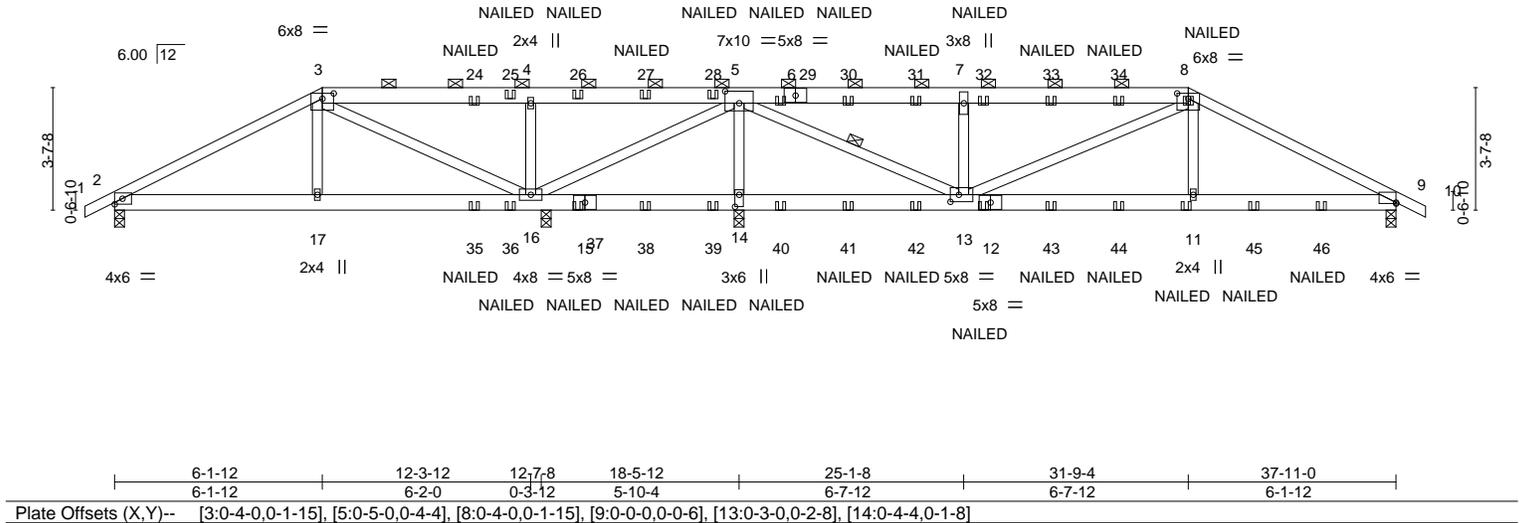


Plate Offsets (X, Y)--	[3:0-4-0,0-1-15], [5:0-5-0,0-4-4], [8:0-4-0,0-1-15], [9:0-0-0,0-0-6], [13:0-3-0,0-2-8], [14:0-4-4,0-1-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.55	Vert(LL) 0.11 11-13 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.58	Vert(CT) -0.13 11-13 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.70	Horz(CT) 0.01 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 233 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 3-6,6-8: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-5-14 oc purlins, except 2-0-0 oc purlins (4-9-10 max.): 3-8.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 5-13

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 2=79(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) except 2=-115(LC 8), 16=-1109(LC 5), 14=-1675(LC 4), 9=-656(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) except 2=439(LC 19), 16=957(LC 19), 14=2112(LC 1), 9=1337(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-475/46, 3-4=-172/420, 4-5=-174/419, 5-7=-1762/994, 7-8=-1767/999,
 8-9=-2146/1089
 BOT CHORD 2-17=0/430, 16-17=0/422, 14-16=-616/345, 13-14=-616/345, 11-13=-864/1833,
 9-11=-864/1850
 WEBS 3-17=0/314, 3-16=-836/251, 4-16=-555/591, 5-14=-1932/1289, 5-13=-1363/2635,
 7-13=-891/848, 8-11=-16/514

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 115 lb uplift at joint 2, 1109 lb uplift at joint 16, 1675 lb uplift at joint 14 and 656 lb uplift at joint 9.
 - Load case(s) 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16, 17, 18 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Venture/Lot2/NewHorizons/Lillington	
2173409	A01	Hip Girder	1	1		139540935
					Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

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ID:be0DwDII4HqVt2cDPS6iUyOt3D-O4hVZ5GtC_Mr3ThqSMaRhbh_b_c6Kp4kSXWpHyAiT7

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-60, 3-8=-60, 8-10=-60, 18-21=-20

Concentrated Loads (lb)

Vert: 8=-124(F) 15=24(F) 11=-37(F) 12=-37(F) 24=-55(F) 25=-59(F) 26=-59(F) 27=-59(F) 28=-59(F) 29=-124(F) 30=-124(F) 31=-124(F) 32=-124(F) 33=-124(F) 34=-124(F) 35=-116(F) 36=25(F) 38=24(F) 39=24(F) 40=-37(F) 41=-37(F) 42=-37(F) 43=-37(F) 44=-37(F) 45=-161(F) 46=-103(F)

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

Uniform Loads (plf)

Vert: 1-2=21, 2-3=3, 3-8=40, 8-9=20, 9-10=12, 18-37=-12, 14-37=96(F=108), 14-21=-12

Horz: 1-2=-33, 2-3=-15, 8-9=32, 9-10=24

Drag: 3-4=1, 7-8=-1

Concentrated Loads (lb)

Vert: 8=163(F) 15=55(F) 11=-18(F) 12=-18(F) 24=108(F) 25=106(F) 26=106(F) 27=106(F) 28=106(F) 29=150(F) 30=150(F) 31=150(F) 32=150(F) 33=150(F) 34=150(F) 35=127(F) 36=12(F) 38=55(F) 39=55(F) 40=-18(F) 41=-18(F) 42=-18(F) 43=-18(F) 44=-18(F) 45=89(F) 46=52(F)

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

Uniform Loads (plf)

Vert: 1-2=12, 2-3=20, 3-8=40, 8-9=3, 9-10=21, 18-37=-12, 14-37=96(F=108), 14-21=-12

Horz: 1-2=-24, 2-3=-32, 8-9=15, 9-10=33

Drag: 3-4=1, 7-8=-1

Concentrated Loads (lb)

Vert: 8=173(F) 15=55(F) 11=-18(F) 12=-18(F) 24=108(F) 25=106(F) 26=106(F) 27=106(F) 28=106(F) 29=150(F) 30=150(F) 31=150(F) 32=150(F) 33=150(F) 34=150(F) 35=127(F) 36=12(F) 38=55(F) 39=55(F) 40=-18(F) 41=-18(F) 42=-18(F) 43=-18(F) 44=-18(F) 45=89(F) 46=52(F)

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

Uniform Loads (plf)

Vert: 1-2=-12, 2-3=-20, 3-8=17, 8-9=-3, 9-10=4, 18-37=-20, 14-37=88(F=108), 14-21=-20

Horz: 1-2=-8, 2-3=0, 8-9=17, 9-10=24

Drag: 3-4=0, 7-8=-0

Concentrated Loads (lb)

Vert: 8=191(F) 15=63(F) 11=-10(F) 12=-10(F) 24=136(F) 25=134(F) 26=134(F) 27=134(F) 28=134(F) 29=178(F) 30=178(F) 31=178(F) 32=178(F) 33=178(F) 34=178(F) 35=135(F) 36=20(F) 38=63(F) 39=63(F) 40=-10(F) 41=-10(F) 42=-10(F) 43=-10(F) 44=-10(F) 45=97(F) 46=60(F)

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

Uniform Loads (plf)

Vert: 1-2=4, 2-3=-3, 3-8=17, 8-9=-20, 9-10=-12, 18-37=-20, 14-37=88(F=108), 14-21=-20

Horz: 1-2=-24, 2-3=-17, 8-9=0, 9-10=8

Drag: 3-4=0, 7-8=-0

Concentrated Loads (lb)

Vert: 8=201(F) 15=63(F) 11=-10(F) 12=-10(F) 24=136(F) 25=134(F) 26=134(F) 27=134(F) 28=134(F) 29=178(F) 30=178(F) 31=178(F) 32=178(F) 33=178(F) 34=178(F) 35=135(F) 36=20(F) 38=63(F) 39=63(F) 40=-10(F) 41=-10(F) 42=-10(F) 43=-10(F) 44=-10(F) 45=97(F) 46=60(F)

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

Uniform Loads (plf)

Vert: 1-2=33, 2-3=40, 3-8=18, 8-9=18, 9-10=10, 18-37=-12, 14-37=96(F=108), 14-21=-12

Horz: 1-2=-45, 2-3=-52, 8-9=30, 9-10=22

Drag: 3-4=0, 7-8=-0

Concentrated Loads (lb)

Vert: 8=180(F) 15=55(F) 11=-18(F) 12=-18(F) 24=138(F) 25=136(F) 26=136(F) 27=136(F) 28=136(F) 29=180(F) 30=180(F) 31=180(F) 32=180(F) 33=180(F) 34=180(F) 35=127(F) 36=12(F) 38=55(F) 39=55(F) 40=-18(F) 41=-18(F) 42=-18(F) 43=-18(F) 44=-18(F) 45=89(F) 46=52(F)

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

Uniform Loads (plf)

Vert: 1-2=10, 2-3=18, 3-8=18, 8-9=40, 9-10=33, 18-37=-12, 14-37=96(F=108), 14-21=-12

Horz: 1-2=-22, 2-3=-30, 8-9=52, 9-10=45

Drag: 3-4=0, 7-8=-0

Concentrated Loads (lb)

Vert: 8=166(F) 15=55(F) 11=-18(F) 12=-18(F) 24=138(F) 25=136(F) 26=136(F) 27=136(F) 28=136(F) 29=180(F) 30=180(F) 31=180(F) 32=180(F) 33=180(F) 34=180(F) 35=127(F) 36=12(F) 38=55(F) 39=55(F) 40=-18(F) 41=-18(F) 42=-18(F) 43=-18(F) 44=-18(F) 45=89(F) 46=52(F)

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

Uniform Loads (plf)

Vert: 1-2=33, 2-3=40, 3-8=18, 8-9=18, 9-10=10, 18-37=-12, 14-37=96(F=108), 14-21=-12

Horz: 1-2=-45, 2-3=-52, 8-9=30, 9-10=22

Drag: 3-4=0, 7-8=-0

Concentrated Loads (lb)

Vert: 8=180(F) 15=55(F) 11=-18(F) 12=-18(F) 24=138(F) 25=136(F) 26=136(F) 27=136(F) 28=136(F) 29=180(F) 30=180(F) 31=180(F) 32=180(F) 33=180(F) 34=180(F) 35=127(F) 36=12(F) 38=55(F) 39=55(F) 40=-18(F) 41=-18(F) 42=-18(F) 43=-18(F) 44=-18(F) 45=89(F) 46=52(F)

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

Uniform Loads (plf)

Vert: 1-2=10, 2-3=18, 3-8=18, 8-9=40, 9-10=33, 18-37=-12, 14-37=96(F=108), 14-21=-12

Horz: 1-2=-22, 2-3=-30, 8-9=52, 9-10=45

Drag: 3-4=0, 7-8=-0

Concentrated Loads (lb)

Vert: 8=166(F) 15=55(F) 11=-18(F) 12=-18(F) 24=138(F) 25=136(F) 26=136(F) 27=136(F) 28=136(F) 29=180(F) 30=180(F) 31=180(F) 32=180(F) 33=180(F) 34=180(F) 35=127(F) 36=12(F) 38=55(F) 39=55(F) 40=-18(F) 41=-18(F) 42=-18(F) 43=-18(F) 44=-18(F) 45=89(F) 46=52(F)

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

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Job	Truss	Truss Type	Qty	Ply	H&H/Venture/Lot2/NewHorizons/Lillington
2173409	A01	Hip Girder	1	1	I39540935

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ID:be0DwDII4HqVt2cDPS6iUyOt3D-O4hVZ5GtC_Mr3ThqSMaRhbh_b_c6Kp4kSXWpHyAiT7

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=25, 2-3=17, 3-8=-5, 8-9=-5, 9-10=2, 18-37=-20, 14-37=88(F=108), 14-21=-20

Horz: 1-2=-45, 2-3=-37, 8-9=15, 9-10=22

Drag: 3-4=0, 7-8=0

Concentrated Loads (lb)

Vert: 8=208(F) 15=63(F) 11=-10(F) 12=-10(F) 24=166(F) 25=164(F) 26=164(F) 27=164(F) 28=164(F) 29=208(F) 30=208(F) 31=208(F) 32=208(F) 33=208(F) 34=208(F) 35=135(F) 36=20(F) 38=63(F) 39=63(F) 40=-10(F) 41=-10(F) 42=-10(F) 43=-10(F) 44=-10(F) 45=97(F) 46=60(F)

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

Uniform Loads (plf)

Vert: 1-2=2, 2-3=-5, 3-8=-5, 8-9=17, 9-10=25, 18-37=-20, 14-37=88(F=108), 14-21=-20

Horz: 1-2=-22, 2-3=-15, 8-9=37, 9-10=45

Drag: 3-4=0, 7-8=0

Concentrated Loads (lb)

Vert: 8=194(F) 15=63(F) 11=-10(F) 12=-10(F) 24=166(F) 25=164(F) 26=164(F) 27=164(F) 28=164(F) 29=208(F) 30=208(F) 31=208(F) 32=208(F) 33=208(F) 34=208(F) 35=135(F) 36=20(F) 38=63(F) 39=63(F) 40=-10(F) 41=-10(F) 42=-10(F) 43=-10(F) 44=-10(F) 45=97(F) 46=60(F)

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

Uniform Loads (plf)

Vert: 1-2=-44, 2-3=-50, 3-8=-22, 8-9=-37, 9-10=-32, 18-37=-20, 14-37=61(F=81), 14-21=-20

Horz: 1-2=-6, 2-3=-0, 8-9=13, 9-10=18

Drag: 3-4=0, 7-8=0

Concentrated Loads (lb)

Vert: 8=137(F) 15=85(F) 11=-10(F) 12=-10(F) 24=91(F) 25=99(F) 26=99(F) 27=99(F) 28=99(F) 29=128(F) 30=128(F) 31=128(F) 32=128(F) 33=128(F) 34=128(F) 35=117(F) 36=54(F) 38=85(F) 39=85(F) 40=-10(F) 41=-10(F) 42=-10(F) 43=-10(F) 44=-10(F) 45=63(F) 46=38(F)

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

Uniform Loads (plf)

Vert: 1-2=-32, 2-3=-37, 3-8=-22, 8-9=-50, 9-10=-44, 18-37=-20, 14-37=61(F=81), 14-21=-20

Horz: 1-2=-18, 2-3=-13, 8-9=0, 9-10=6

Drag: 3-4=0, 7-8=0

Concentrated Loads (lb)

Vert: 8=145(F) 15=85(F) 11=-10(F) 12=-10(F) 24=91(F) 25=99(F) 26=99(F) 27=99(F) 28=99(F) 29=128(F) 30=128(F) 31=128(F) 32=128(F) 33=128(F) 34=128(F) 35=117(F) 36=54(F) 38=85(F) 39=85(F) 40=-10(F) 41=-10(F) 42=-10(F) 43=-10(F) 44=-10(F) 45=63(F) 46=38(F)

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

Uniform Loads (plf)

Vert: 1-2=-17, 2-3=-22, 3-8=-39, 8-9=-39, 9-10=-33, 18-37=-20, 14-37=61(F=81), 14-21=-20

Horz: 1-2=-33, 2-3=-28, 8-9=11, 9-10=17

Drag: 3-4=0, 7-8=0

Concentrated Loads (lb)

Vert: 8=150(F) 15=85(F) 11=-10(F) 12=-10(F) 24=114(F) 25=122(F) 26=122(F) 27=122(F) 28=122(F) 29=150(F) 30=150(F) 31=150(F) 32=150(F) 33=150(F) 34=150(F) 35=117(F) 36=54(F) 38=85(F) 39=85(F) 40=-10(F) 41=-10(F) 42=-10(F) 43=-10(F) 44=-10(F) 45=63(F) 46=38(F)

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

Uniform Loads (plf)

Vert: 1-2=-33, 2-3=-39, 3-8=-39, 8-9=-22, 9-10=-17, 18-37=-20, 14-37=61(F=81), 14-21=-20

Horz: 1-2=-17, 2-3=-11, 8-9=28, 9-10=33

Drag: 3-4=0, 7-8=0

Concentrated Loads (lb)

Vert: 8=140(F) 15=85(F) 11=-10(F) 12=-10(F) 24=114(F) 25=122(F) 26=122(F) 27=122(F) 28=122(F) 29=150(F) 30=150(F) 31=150(F) 32=150(F) 33=150(F) 34=150(F) 35=117(F) 36=54(F) 38=85(F) 39=85(F) 40=-10(F) 41=-10(F) 42=-10(F) 43=-10(F) 44=-10(F) 45=63(F) 46=38(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



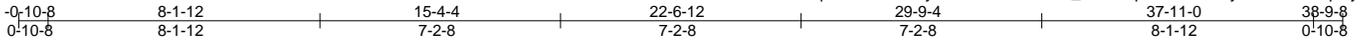
818 Soundside Road
Edenton, NC 27932

Job 2173409	Truss A02	Truss Type HIP	Qty 1	Ply 1	H&H/Venture/Lot2/NewHorizons/Lillington 139540936
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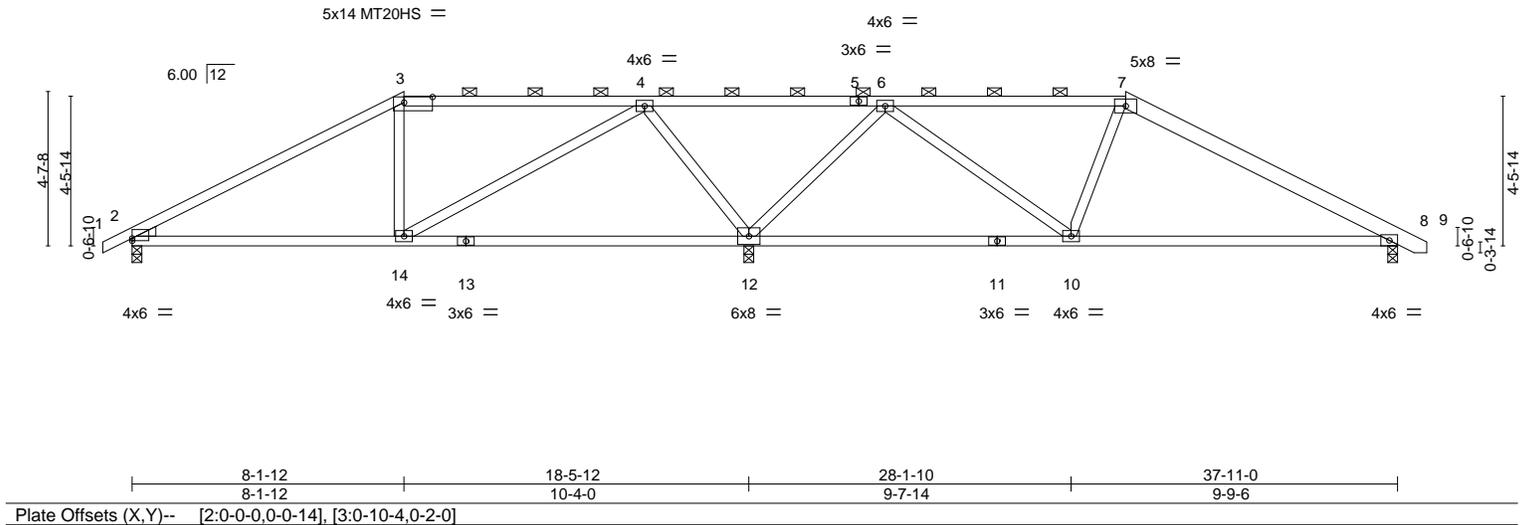
Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Dec 9 11:58:14 2019 Page 1

ID:be0DwDII4HqVt2cDPs6iUyO13D-O4hVZ5GtC_Mr3ThqSMaRhbexbyr6JC4kSXWpHyAit7



Scale = 1:68.7



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.74	Vert(LL) -0.20 12-14 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.76	Vert(CT) -0.38 12-14 >577 240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.74	Horz(CT) -0.02 2 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.13 14-17 >999 240	Weight: 179 lb	FT = 20%

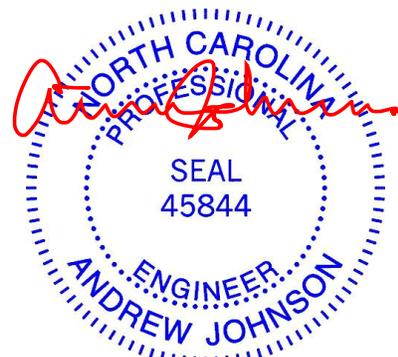
LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
7-9: 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (6-0-0 max.): 3-7.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 2=683/0-3-8, 12=1728/0-3-8, 8=715/0-3-8
Max Horz 2=101(LC 16)
Max Uplift 2=-233(LC 12), 12=-491(LC 9), 8=-233(LC 13)
Max Grav 2=686(LC 23), 12=1728(LC 1), 8=715(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-870/393, 3-4=-692/451, 4-6=-124/521, 6-7=-685/426, 7-8=-880/433
BOT CHORD 2-14=-185/687, 10-12=-110/266, 8-10=-227/731
WEBS 4-14=-161/662, 4-12=-964/468, 6-12=-1063/485, 6-10=-75/547

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 233 lb uplift at joint 2, 491 lb uplift at joint 12 and 233 lb uplift at joint 8.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 9, 2019

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 2173409	Truss A03	Truss Type HIP	Qty 1	Ply 1	H&H/Venture/Lot2/NewHorizons/Lillington 139540937
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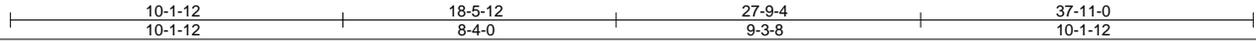
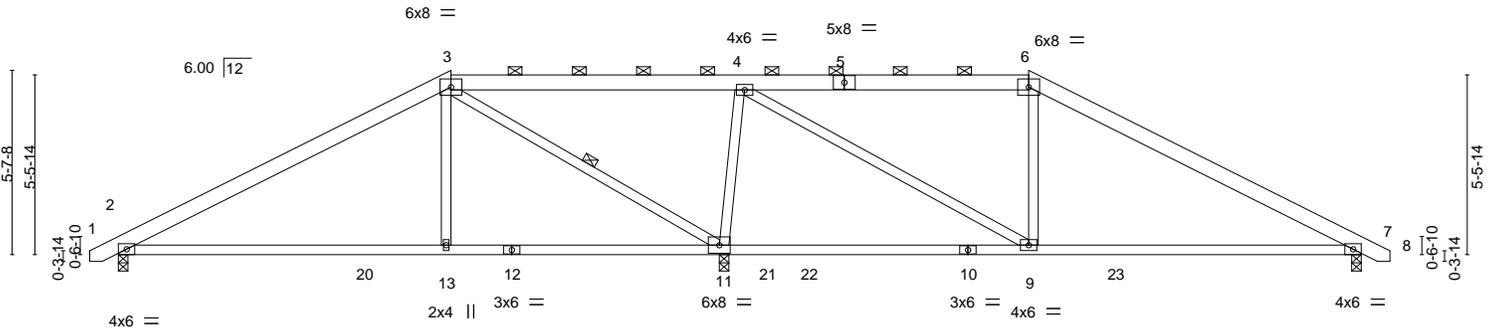
Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Dec 9 11:58:15 2019 Page 1

ID:be0DwDII4HqVt2cDPs6iUUyOt3D-sGFg7v6ueV6DTD1tOAtpzu8sJ?HLrpXEz6G3LjyAit6



Scale = 1:69.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.57	Vert(LL)	-0.15 13-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.81	Vert(CT)	-0.35 13-16	>629	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.54	Horz(CT)	0.02 7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.16 13-16	>999	240	Weight: 206 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 3-6.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 3-11

REACTIONS. (lb/size) 2=745/0-3-8, 11=1583/0-3-8, 7=787/0-3-8
 Max Horz 2=120(LC 12)
 Max Uplift 2=-251(LC 12), 11=-410(LC 9), 7=-280(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-861/447, 3-4=-60/273, 4-6=-790/550, 6-7=-956/471
 BOT CHORD 2-13=-212/700, 11-13=-214/694, 7-9=-236/784
 WEBS 3-13=0/372, 3-11=-888/299, 4-11=-992/483, 4-9=-270/859

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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
- 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 3-6-0 tall by 2-0-0 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 251 lb uplift at joint 2, 410 lb uplift at joint 11 and 280 lb uplift at joint 7.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 9, 2019

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818 Soundside Road
 Edenton, NC 27932

Job 2173409	Truss A04	Truss Type HIP	Qty 1	Ply 1	H&H/Venture/Lot2/NewHorizons/Lillington 139540938
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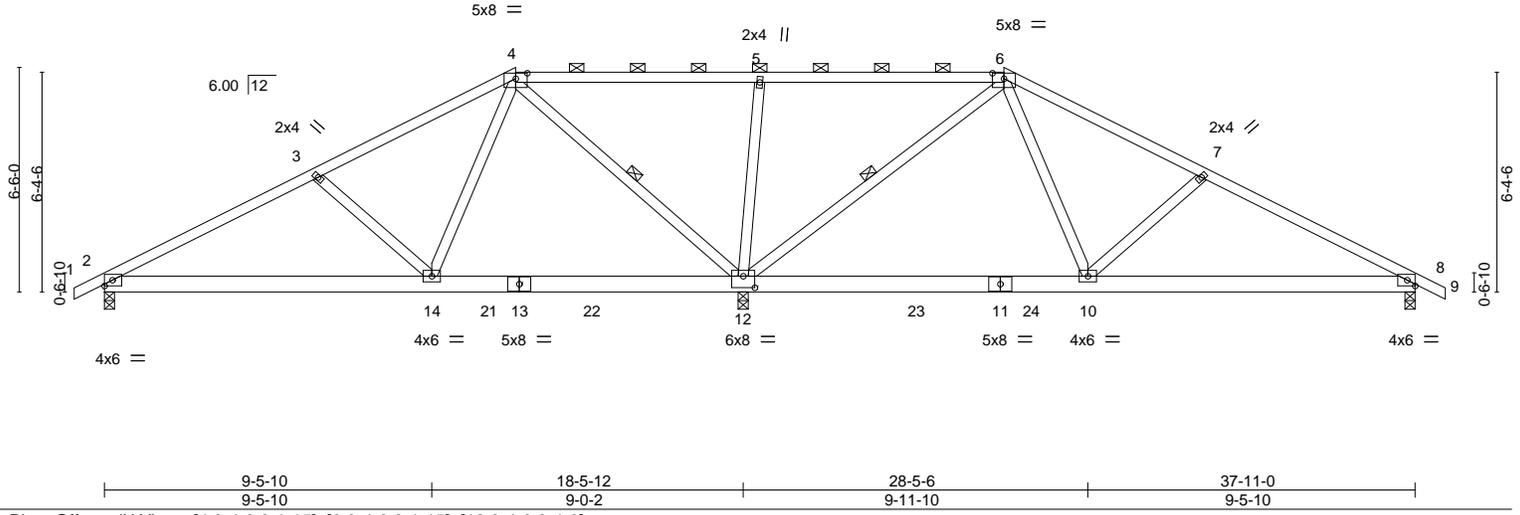
Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Dec 9 11:58:16 2019 Page 1

ID:be0DwDII4HqVt2cDPs6iUUyOt3D-KSo2KF7WPpE44Mc3ytO2W6g_EPkAaHCNBI0dt9yAiT5

0-10-8 0-10-8	6-2-2 6-2-2	11-10-12 5-8-10	18-11-8 7-0-12	26-0-4 7-0-12	31-8-14 5-8-10	37-11-0 6-2-2	38-9-8 0-10-8
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Scale = 1:66.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.75	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.38	Vert(LL) -0.06 10-12 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.45	Vert(CT) -0.12 14-17 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.01 8 n/a n/a	Weight: 219 lb	FT = 20%
	Code IRC2015/TPI2014		Wind(LL) 0.04 14-17 >999 240		

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (10-0-0 max.): 4-6.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 4-12, 6-12

REACTIONS. (lb/size) 2=630/0-3-8, 12=1829/0-3-8, 8=678/0-3-8
 Max Horz 2=-142(LC 13)
 Max Uplift 2=-203(LC 12), 12=-381(LC 9), 8=-229(LC 13)
 Max Grav 2=661(LC 23), 12=1829(LC 1), 8=708(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-861/349, 3-4=-588/259, 4-5=-76/440, 5-6=-49/400, 6-7=-694/295, 7-8=-966/384
 BOT CHORD 2-14=-273/712, 12-14=-29/315, 10-12=0/371, 8-10=-218/805
 WEBS 3-14=-351/343, 4-14=-143/519, 4-12=-897/424, 5-12=-474/322, 6-12=-913/417, 6-10=-132/547, 7-10=-347/343

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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
- 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 3-6-0 tall by 2-0-0 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 203 lb uplift at joint 2, 381 lb uplift at joint 12 and 229 lb uplift at joint 8.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 9, 2019

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818 Soundside Road
Edenton, NC 27932

Job 2173409	Truss A05	Truss Type Hip	Qty 1	Ply 1	H&H/Venture/Lot2/NewHorizons/Lillington 139540939
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Dec 9 11:58:17 2019 Page 1

ID:be0DwDII4HqVt2cDPs6iUUyOt3D-ofMQXa8897MxiWBGWavH3JDD5p3FJIYXQPIAQbyAIT4

0-10-8	7-3-10	14-1-12	18-11-8	23-9-4	30-7-6	37-11-0	38-9-8
0-10-8	7-3-10	6-10-2	4-9-12	4-9-12	6-10-2	7-3-10	0-10-8

Scale = 1:67.0

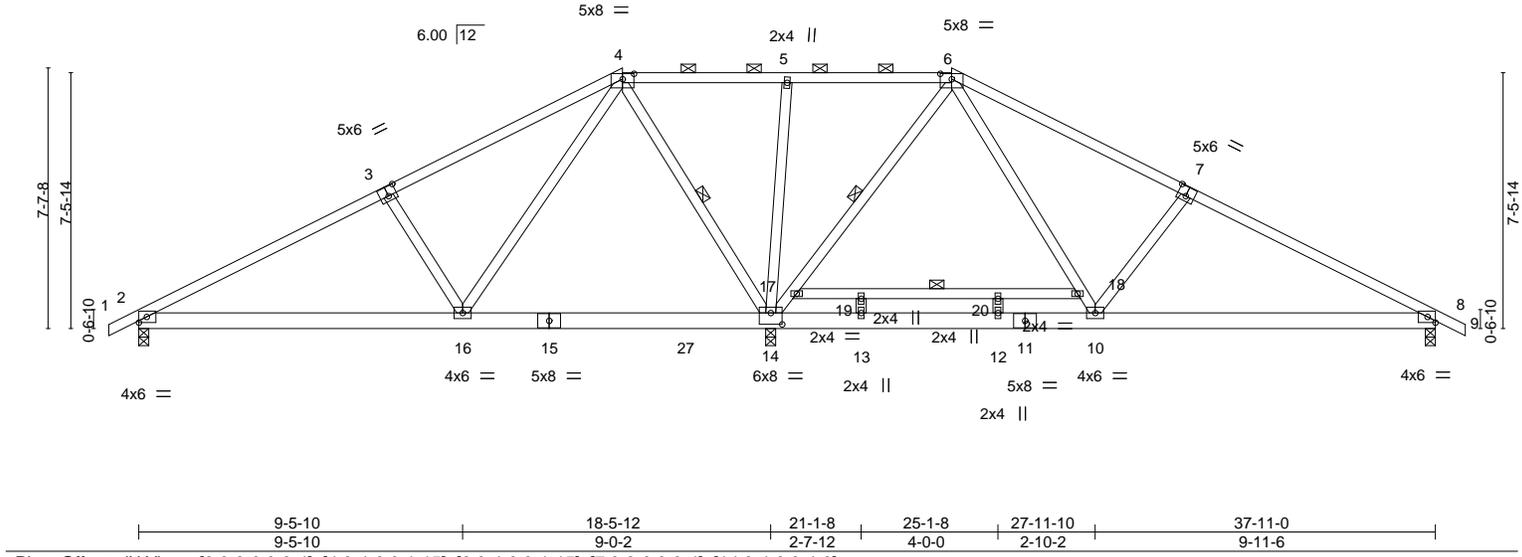


Plate Offsets (X,Y)--	[3:0-3-0,0-3-4], [4:0-4-0,0-1-15], [6:0-4-0,0-1-15], [7:0-3-0,0-3-4], [14:0-4-0,0-4-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.49	Vert(LL)	-0.07 14-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.39	Vert(CT)	-0.15 10-26	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.44	Horz(CT)	0.01 2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.06 10-26	>999	240	Weight: 238 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (10-0-0 max.): 4-6.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
	WEBS 1 Row at midpt 4-14, 6-14, 17-18

REACTIONS.	(lb/size)
	2=589/0-3-8, 14=1909/0-3-8, 8=639/0-3-8
	Max Horz 2=-168(LC 13)
	Max Uplift 2=-203(LC 12), 14=-344(LC 12), 8=-237(LC 13)
	Max Grav 2=635(LC 23), 14=1909(LC 1), 8=682(LC 24)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-773/299, 3-4=-561/306, 4-5=-53/502, 5-6=-41/482, 6-7=-616/314, 7-8=-865/342
BOT CHORD	2-16=-258/620, 14-16=-113/284, 8-10=-162/703
WEBS	3-16=-411/400, 4-16=-301/685, 4-14=-875/442, 14-17=-922/443, 6-17=-885/432, 6-18=-263/657, 10-18=-257/635, 7-10=-415/403, 5-14=-297/210

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 203 lb uplift at joint 2, 344 lb uplift at joint 14 and 237 lb uplift at joint 8.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 9, 2019

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818 Soundside Road
Edenton, NC 27932

Job 2173409	Truss A06	Truss Type Hip	Qty 1	Ply 1	H&H/Venture/Lot2/NewHorizons/Lillington 139540940
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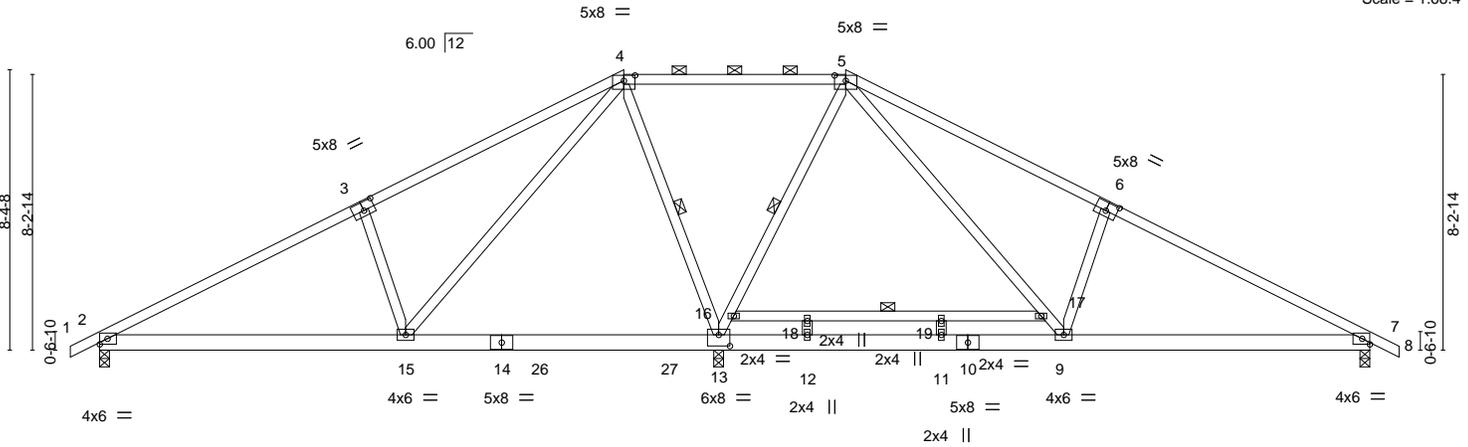
Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Dec 9 11:58:18 2019 Page 1

ID:be0DwDII4HqVt2cDPs6iUUyOt3D-Hrwolw8mwQUoKgmS3lQWbXIMTCNN24qg3Vjy2yAIt3

0-10-8	7-10-10	15-7-12	22-3-4	30-0-6	37-11-0	38-9-8
0-10-8	7-10-10	7-9-2	6-7-8	7-9-2	7-10-10	0-10-8

Scale = 1:68.4



9-1-10	18-5-12	21-1-8	25-1-8	28-9-6	37-11-0
9-1-10	9-4-2	2-7-12	4-0-0	3-7-14	9-1-10

Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [4:0-4-0,0-1-15], [5:0-4-0,0-1-15], [6:0-4-0,0-3-0], [13:0-4-0,0-4-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.58	Vert(LL)	-0.09	13-15	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.46	Vert(CT)	-0.19	11-12	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.95	Horz(CT)	0.01	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.08	9-25	>999	Weight: 235 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (10-0-0 max.): 4-5.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 4-13, 5-13, 16-17

REACTIONS.

(lb/size) 2=558/0-3-8, 13=2124/0-3-8, 7=656/0-3-8
 Max Horz 2=184(LC 12)
 Max Uplift 2=-225(LC 12), 13=-182(LC 12), 7=-218(LC 13)
 Max Grav 2=611(LC 23), 13=2124(LC 1), 7=709(LC 24)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-702/350, 3-4=-571/457, 4-5=0/525, 5-6=-812/358, 6-7=-945/250
 BOT CHORD 2-15=-306/551, 13-15=-254/288, 12-13=-117/273, 11-12=-117/273, 9-11=-117/273, 7-9=-78/765
 WEBS 3-15=-454/447, 4-15=-465/816, 4-13=-946/495, 13-16=-1041/409, 5-16=-1007/423, 5-17=-303/977, 9-17=-317/933, 6-9=-443/454

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) 200.0lb AC unit load placed on the bottom chord, 23-1-8 from left end, supported at two points, 4-0-0 apart.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 225 lb uplift at joint 2, 182 lb uplift at joint 13 and 218 lb uplift at joint 7.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 9, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



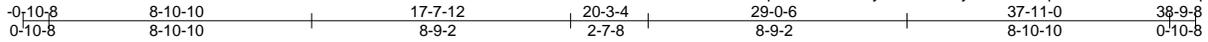
818 Soundside Road
 Edenton, NC 27932

Job 2173409	Truss A07	Truss Type Hip	Qty 1	Ply 1	H&H/Venture/Lot2/NewHorizons/Lillington Job Reference (optional)	139540941
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Dec 9 11:58:19 2019 Page 1

ID:be0DwDII4HqVt2cDPs6iUUyOt3D-11UBYG9PhkfcxqLed?xl8kIVSck6neFptjEHUUyAit2



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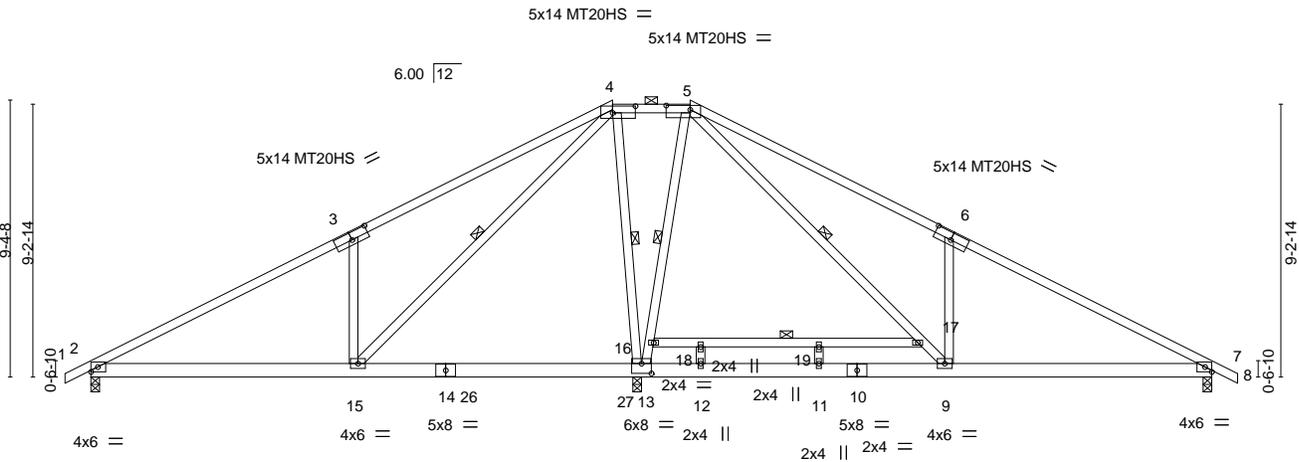


Plate Offsets (X, Y)--	[3:0-7-0,0-3-0], [4:0-9-4,0-2-12], [5:0-9-12,0-1-12], [6:0-7-0,0-3-0], [13:0-4-0,0-4-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.75	Vert(LL)	-0.10	13-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.43	Vert(CT)	-0.17	11-12	>999	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.49	Horz(CT)	0.02	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.09	15-22	>999	240		
									Weight: 244 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (10-0-0 max.): 4-5.
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied.
4-15,5-9: 2x4 SP No.2	WEBS 1 Row at midpt 4-15, 4-13, 5-13, 5-9, 16-17

REACTIONS.	(lb/size)
	2=532/0-3-8, 13=2209/0-3-8, 7=597/0-3-8
	Max Horz 2=207(LC 12)
	Max Uplift 2=-221(LC 12), 13=-227(LC 12), 7=-216(LC 13)
	Max Grav 2=595(LC 23), 13=2209(LC 1), 7=656(LC 24)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-650/307, 3-4=-664/588, 4-5=0/518, 5-6=-824/489, 6-7=-813/218
BOT CHORD	2-15=-288/495, 13-15=-410/410, 12-13=-336/392, 11-12=-336/392, 9-11=-336/392, 7-9=-46/638
WEBS	3-15=-568/556, 4-15=-696/1094, 4-13=-925/488, 13-16=-983/419, 5-16=-963/428, 5-17=-554/1240, 9-17=-564/1200, 6-9=-561/562

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) 200.0lb AC unit load placed on the bottom chord, 22-7-8 from left end, supported at two points, 4-0-0 apart.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 221 lb uplift at joint 2, 227 lb uplift at joint 13 and 216 lb uplift at joint 7.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job 2173409	Truss A08	Truss Type COMMON	Qty 1	Ply 1	H&H/Venture/Lot2/NewHorizons/Lillington Job Reference (optional)	139540942
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Builders FirstSource, Sumter, SC - 29153,

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ID:be0DwDII4HqVt2cDPs6iUUyOt3D-DE2ZAcA1S2kKwZ_wrBjS_gyrks04DW0yz6N_q1wyAiT1



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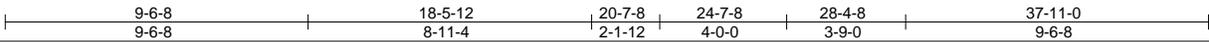
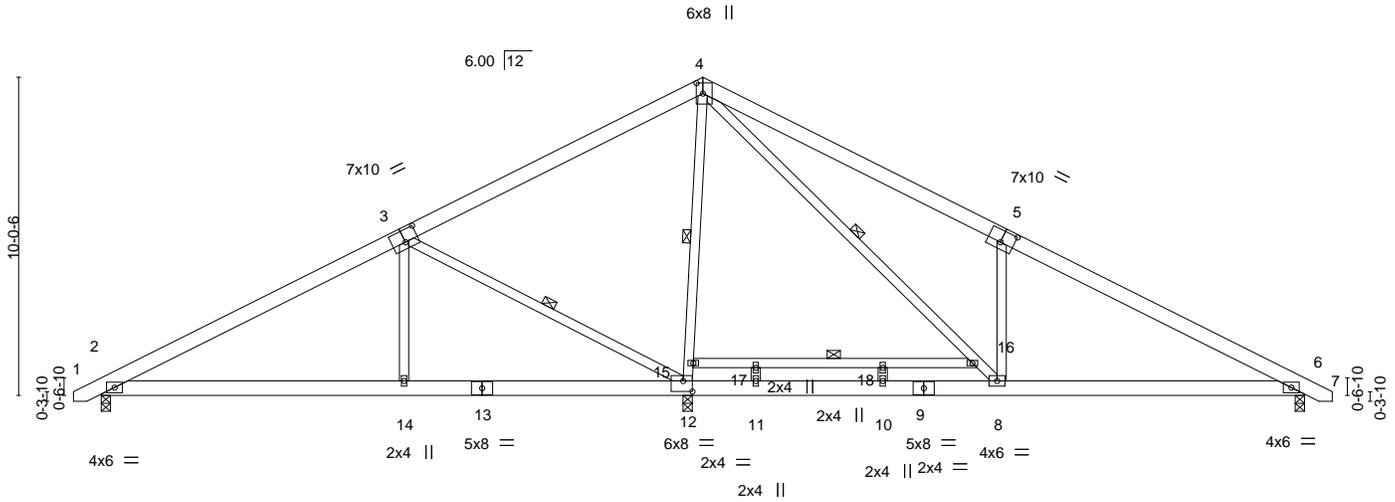


Plate Offsets (X,Y)--	[3:0-5-0,0-4-8], [4:0-4-0,0-2-8], [5:0-5-0,0-4-8], [12:0-3-8,0-4-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.46	Vert(LL)	-0.06	8-24	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.44	Vert(CT)	-0.16	10-11	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.79	Horz(CT)	0.01	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.10	8-24	>999	Weight: 268 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 4-8: 2x4 SP No.2	WEBS 1 Row at midpt 4-12, 4-8, 3-12, 15-16

REACTIONS. (lb/size) 2=568/0-3-8, 12=2084/0-3-8, 6=661/0-3-8
 Max Horz 2=-221(LC 13)
 Max Uplift 2=-216(LC 12), 12=-243(LC 12), 6=-231(LC 13)
 Max Grav 2=611(LC 23), 12=2084(LC 1), 6=706(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-647/349, 3-4=-26/527, 4-5=-946/573, 5-6=-880/258
 BOT CHORD 2-14=-296/524, 12-14=-295/526, 11-12=-289/360, 10-11=-289/360, 8-10=-289/360,
 6-8=-73/727
 WEBS 12-15=-1353/551, 4-15=-1339/560, 4-16=-593/1342, 8-16=-599/1292, 5-8=-629/606,
 3-12=-930/601, 3-14=0/364

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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
 - 200.0lb AC unit load placed on the bottom chord, 22-7-8 from left end, supported at two points, 4-0-0 apart.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint 2, 243 lb uplift at joint 12 and 231 lb uplift at joint 6.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



December 9, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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TRENCO
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818 Soundside Road
 Edenton, NC 27932

Job 2173409	Truss A10	Truss Type COMMON	Qty 8	Ply 1	H&H/Venture/Lot2/NewHorizons/Lillington 139540944
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Builders FirstSource, Sumter, SC - 29153,

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ID:be0DwDII4HqVt2cDPs6iUUyOt3D-9cAJbICH_f_EoH4DI8VSmNw5eqfR_ubGahTx5pyAIT?



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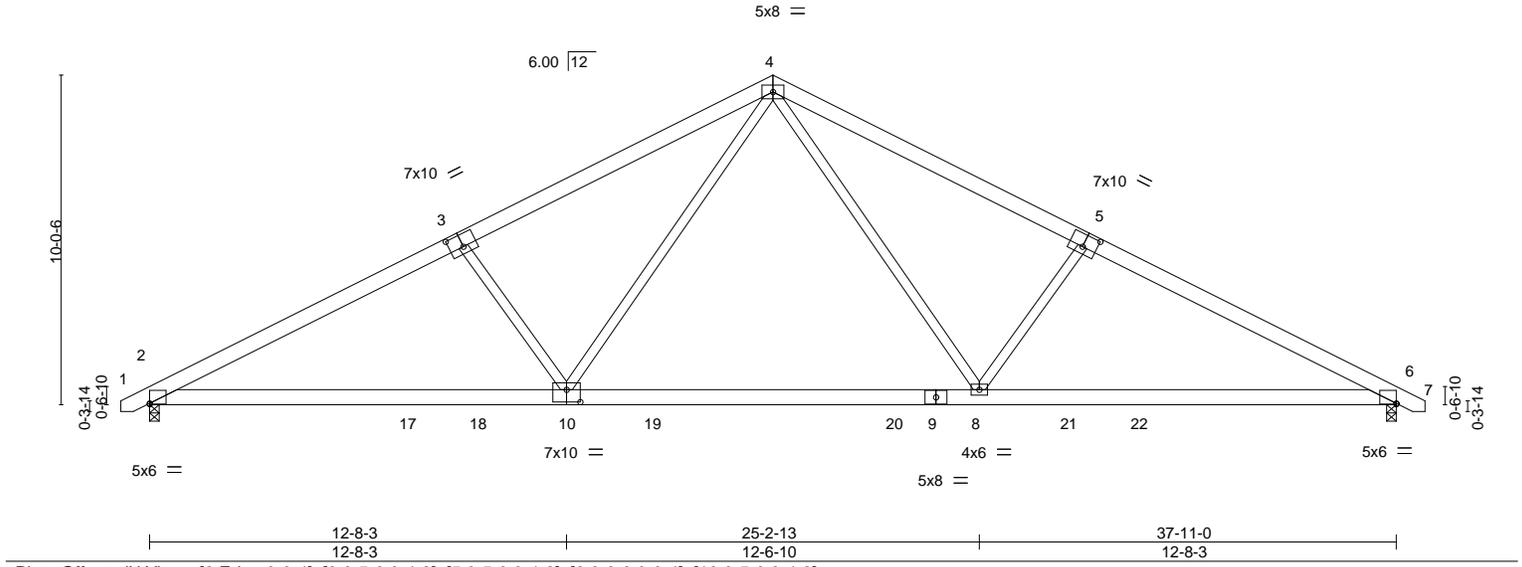


Plate Offsets (X,Y)-- [2:Edge,0-0-4], [3:0-5-0,0-4-8], [5:0-5-0,0-4-8], [6:0-0-0,0-0-4], [10:0-5-0,0-4-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.44	Vert(LL)	-0.29	8-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.84	Vert(CT)	-0.45	8-10	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.90	Horz(CT)	0.08	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.15	10-13	>999		
								Weight: 242 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 2=1558/0-3-8, 6=1558/0-3-8
 Max Horz 2=-221(LC 13)
 Max Uplift 2=-422(LC 12), 6=-422(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2708/1183, 3-4=-2473/1164, 4-5=-2473/1164, 5-6=-2708/1183
 BOT CHORD 2-10=-885/2375, 8-10=-387/1565, 6-8=-887/2374
 WEBS 4-8=-364/1013, 5-8=-587/535, 4-10=-364/1013, 3-10=-587/535

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 422 lb uplift at joint 2 and 422 lb uplift at joint 6.
 - 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



December 9, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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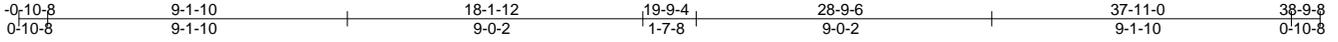
818 Soundside Road
 Edenton, NC 27932

Job 2173409	Truss A11	Truss Type HIP	Qty 1	Ply 1	H&H/Venture/Lot2/NewHorizons/Lillington 139540945
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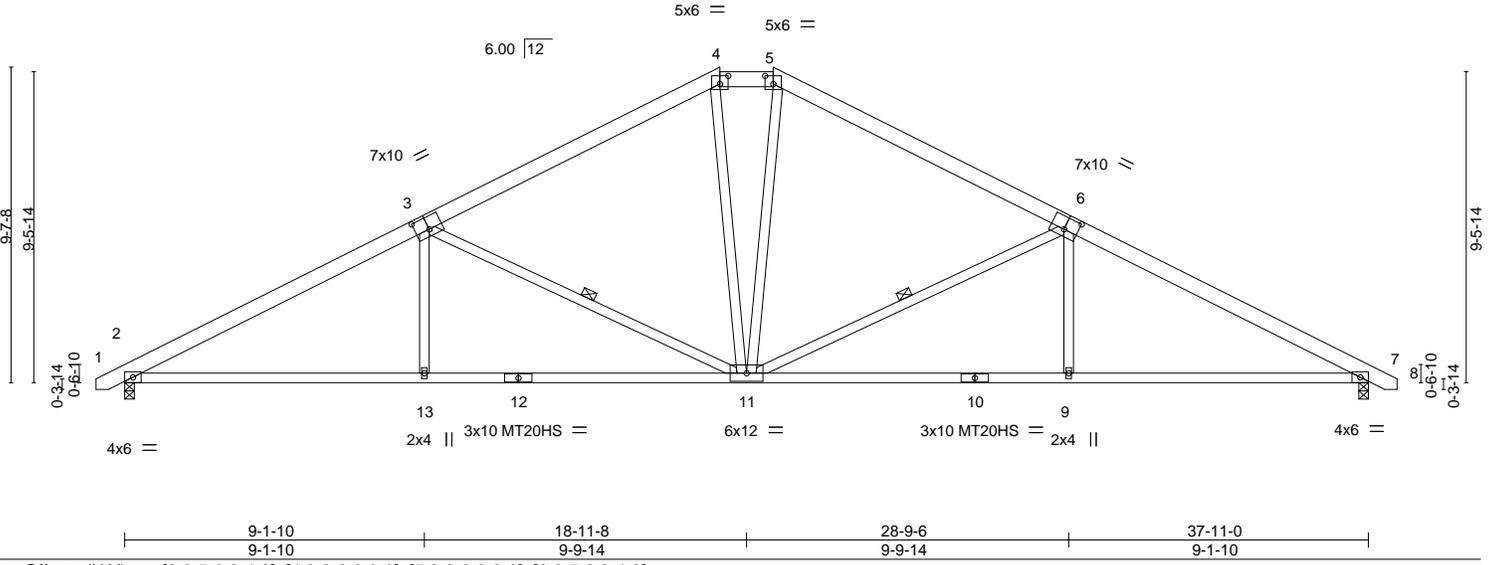
Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Dec 9 11:58:23 2019 Page 1

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Scale = 1:69.9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.37	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.89	Vert(LL) -0.17 11-13 >999 360	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.52	Vert(CT) -0.40 11-13 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.13 7 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.13 13-16 >999 240	Weight: 230 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x4 SP No.2 *Except* 10-12: 2x4 SP No.1	2-0-0 oc purlins (5-5-0 max.): 4-5.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
	WEBS 1 Row at midpt 3-11, 6-11

REACTIONS. (lb/size) 2=1558/0-3-8, 7=1558/0-3-8
 Max Horz 2=211(LC 12)
 Max Uplift 2=415(LC 12), 7=415(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2717/1143, 3-4=-1877/908, 4-5=-1612/925, 5-6=-1877/908, 6-7=-2717/1143
 BOT CHORD 2-13=-857/2339, 11-13=-858/2337, 9-11=-860/2337, 7-9=-859/2339
 WEBS 3-13=0/372, 3-11=-871/539, 4-11=-182/538, 5-11=-181/538, 6-11=-871/539, 6-9=0/372

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 415 lb uplift at joint 2 and 415 lb uplift at joint 7.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 9, 2019

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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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
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818 Soundside Road
 Edenton, NC 27932

Job 2173409	Truss A12	Truss Type Hip	Qty 1	Ply 1	H&H/Venture/Lot2/NewHorizons/Lillington 139540946
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Dec 9 11:58:24 2019 Page 1

ID:be0DwDII4HqVt2cDPs6iUyOt3D-5?H30_DXWGE2bDcQZXwro?MOdKySyZZ1?y29hyAiSz

0-10-8	8-1-10	16-1-12	21-9-4	29-9-6	37-11-0	38-9-8
0-10-8	8-1-10	8-0-2	5-7-8	8-0-2	8-1-10	0-10-8

Scale = 1:67.0

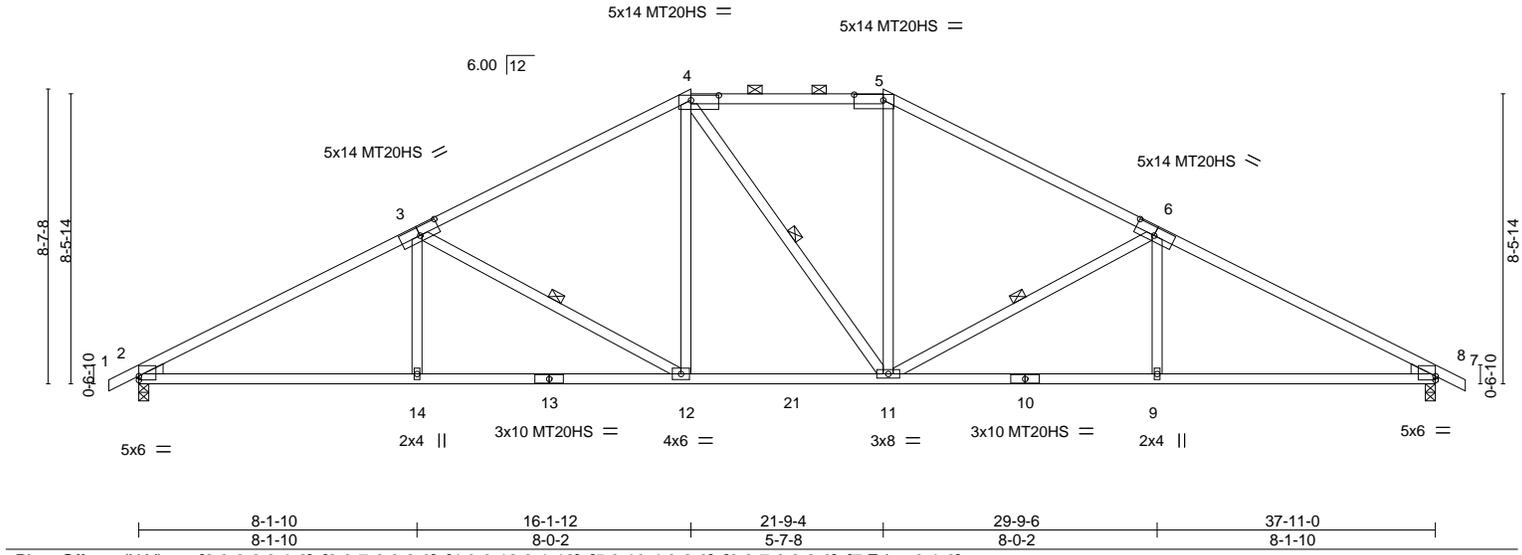


Plate Offsets (X,Y)--	[2:0-0-0,0-1-6], [3:0-7-0,0-3-0], [4:0-9-12,0-1-12], [5:0-10-4,0-2-0], [6:0-7-0,0-3-0], [7:Edge,0-1-6]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.74	Vert(LL)	-0.16	12-14	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.84	Vert(CT)	-0.39	12-14	>999	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.30	Horz(CT)	0.14	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.15	12-14	>999		Weight: 199 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (4-1-9 max.): 4-5.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
WEDGE	WEBS 1 Row at midpt 3-12, 4-11, 6-11
Left: 2x4 SP No.3, Right: 2x4 SP No.3	

REACTIONS. (lb/size) 2=1569/0-3-8, 7=1569/0-3-8
 Max Horz 2=190(LC 12)
 Max Uplift 2=401(LC 12), 7=401(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2715/1125, 3-4=-2052/957, 4-5=-1733/940, 5-6=-2053/957, 6-7=-2715/1124
 BOT CHORD 2-14=-846/2329, 12-14=-847/2328, 11-12=-457/1733, 9-11=-850/2328, 7-9=-849/2328
 WEBS 3-14=0/315, 3-12=-685/446, 4-12=-136/510, 5-11=-136/510, 6-11=-685/445, 6-9=0/315

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 401 lb uplift at joint 2 and 401 lb uplift at joint 7.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 9, 2019

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job 2173409	Truss A14	Truss Type Hip	Qty 1	Ply 1	H&H/Venture/Lot2/NewHorizons/Lillington 139540948
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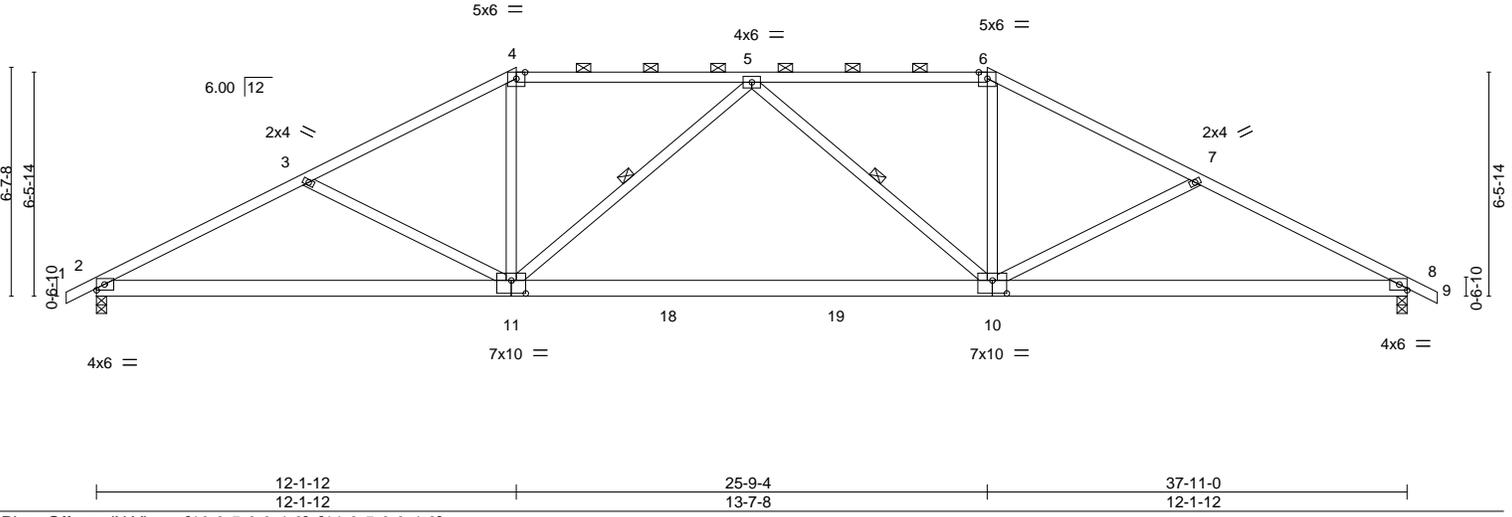
Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Dec 9 11:58:26 2019 Page 1

ID:be0DwDII4HqVt2cDPs6iUUyOt3D-2NPqQfFo2uUfHvN_XzZOWd5khR?jwrhrUJR8DayAiSx

-0-10-8	6-1-10	12-1-12	18-11-8	25-9-4	31-9-6	37-11-0	38-9-8
0-10-8	6-1-10	6-0-2	6-9-12	6-9-12	6-0-2	6-1-10	0-10-8

Scale = 1:66.3



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.63	Vert(LL) -0.38 10-11 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.95	Vert(CT) -0.67 10-11 >680 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.32	Horz(CT) 0.09 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.16 10-11 >999 240	Weight: 216 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (3-4-13 max.): 4-6.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
	WEBS 1 Row at midpt 5-11, 5-10

REACTIONS. (lb/size) 2=1569/0-3-8, 8=1569/0-3-8
 Max Horz 2=145(LC 12)
 Max Uplift 2=-354(LC 12), 8=-354(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2784/1183, 3-4=-2422/992, 4-5=-2089/956, 5-6=-2089/956, 6-7=-2422/992,
 7-8=-2784/1183
 BOT CHORD 2-11=-926/2425, 10-11=-765/2355, 8-10=-929/2425
 WEBS 3-11=-369/379, 4-11=-164/689, 5-11=-483/300, 5-10=-483/300, 6-10=-164/689,
 7-10=-369/379

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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
 - 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 3-6-0 tall by 2-0-0 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 354 lb uplift at joint 2 and 354 lb uplift at joint 8.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 9, 2019

Job 2173409	Truss A15	Truss Type HIP	Qty 1	Ply 1	H&H/Venture/Lot2/NewHorizons/Lillington Job Reference (optional)	139540949
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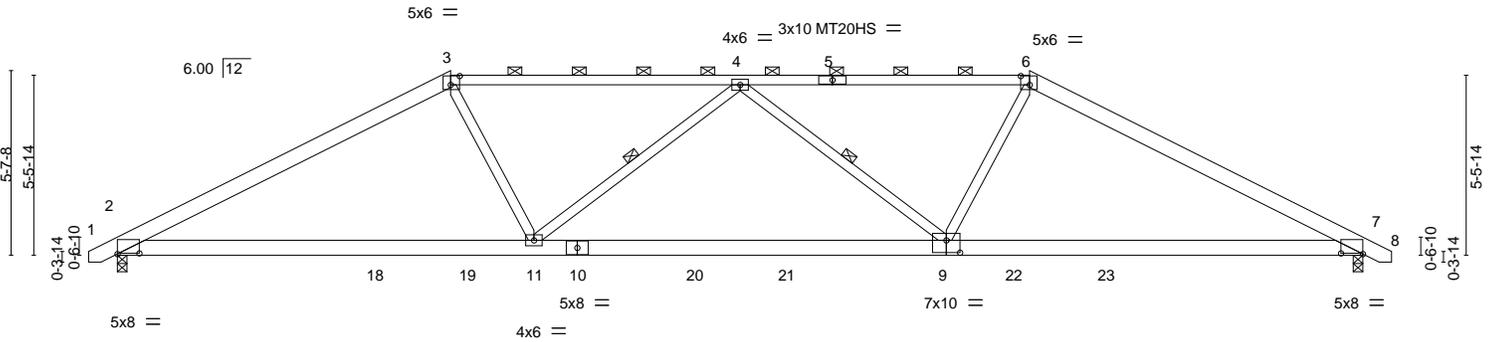
Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Dec 9 11:58:27 2019 Page 1

ID:be0DwDII4HqVt2cDPs6iUUyOt3D-WazCe?FQpBdWv3yB5h4dTQdqbrN2fJJ?jzAilOyAiSw

0-10-8	10-1-12	18-11-8	27-9-4	37-11-0	38-9-8
0-10-8	10-1-12	8-9-12	8-9-12	10-1-12	0-10-8

Scale = 1:69.8



	12-8-3	25-2-13	37-11-0
	12-8-3	12-6-10	12-8-3
Plate Offsets (X,Y)--	[2:0-8-0,0-0-4], [3:0-3-4,0-3-4], [6:0-3-4,0-3-4], [7:0-8-0,0-0-4], [9:0-5-0,0-4-8]		

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.87	Vert(LL)	-0.17 11-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.81	Vert(CT)	-0.39 11-14	>999	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.30	Horz(CT)	0.09 7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.21 11-14	>999	240		Weight: 212 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 3-5,5-6: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (2-2-0 max.): 3-6.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-11, 4-9

REACTIONS. (lb/size) 2=1558/0-3-8, 7=1558/0-3-8
 Max Horz 2=-121(LC 13)
 Max Uplift 2=-319(LC 12), 7=-319(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2607/1036, 3-4=-2534/1068, 4-6=-2534/1068, 6-7=-2607/1036
 BOT CHORD 2-11=-731/2260, 9-11=-988/2870, 7-9=-732/2260
 WEBS 3-11=-73/718, 4-11=-545/360, 4-9=-545/360, 6-9=-73/718

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 319 lb uplift at joint 2 and 319 lb uplift at joint 7.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 9, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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Job 2173409	Truss A16	Truss Type HIP	Qty 1	Ply 1	H&H/Venture/Lot2/NewHorizons/Lillington 139540950
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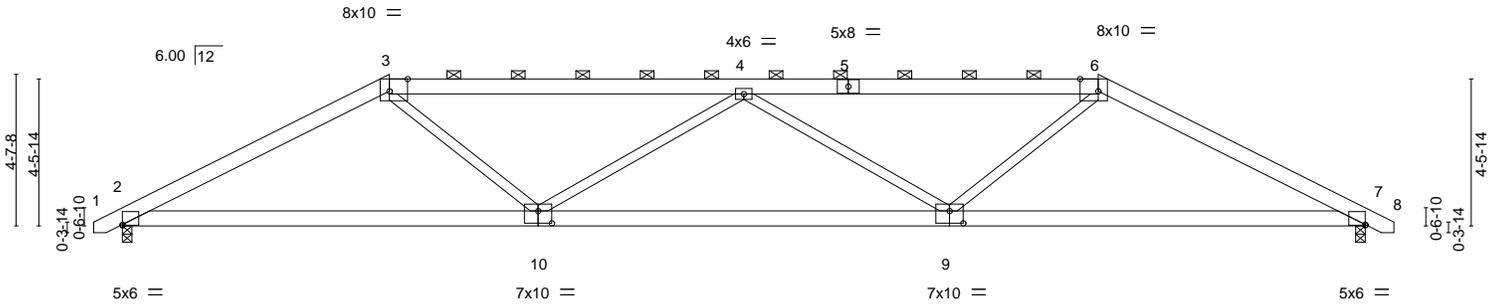
Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Dec 9 11:58:28 2019 Page 1

ID:be0DwDII4HqVt2cDPs6iUUyOt3D-_mXarLG2aVINWCXNfOcs?eA22EjB0d98ydwFITYAiSv



Scale = 1:69.9



	12-8-3	25-2-13	37-11-0
	12-8-3	12-6-10	12-8-3
Plate Offsets (X,Y)--	[2:0-0-0,0-0-4], [3:0-6-10,Edge], [6:0-6-10,Edge], [7:0-0-0,0-0-4], [9:0-5-0,0-4-8], [10:0-5-0,0-4-8]		

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.70	Vert(LL)	-0.16	9-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.82	Vert(CT)	-0.40	9-10	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.83	Horz(CT)	0.11	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.21	9-10	>999		
								Weight: 226 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (3-2-12 max.): 3-6.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 2=1558/0-3-8, 7=1558/0-3-8
 Max Horz 2=98(LC 13)
 Max Uplift 2=359(LC 9), 7=359(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2754/1117, 3-4=-3126/1209, 4-6=-3126/1209, 6-7=-2756/1118
 BOT CHORD 2-10=-846/2427, 9-10=-1346/3692, 7-9=-848/2430
 WEBS 3-10=-166/983, 4-10=-759/503, 4-9=-758/503, 6-9=-166/981

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 359 lb uplift at joint 2 and 359 lb uplift at joint 7.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 9, 2019

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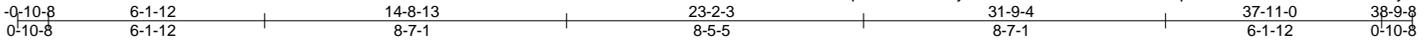
818 Soundside Road
 Edenton, NC 27932

Job 2173409	Truss A17	Truss Type Hip Girder	Qty 1	Ply 2	H&H/Venture/Lot2/NewHorizons/Lillington 139540951
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Builders FirstSource, Sumter, SC - 29153,

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ID:be0DwDII4HqVt2cDPs6iUUyOt3D-w9fLG1I16675mWhmmpeK43FNc2NcsY1RPxPMMLyAiSt



Scale = 1:65.2

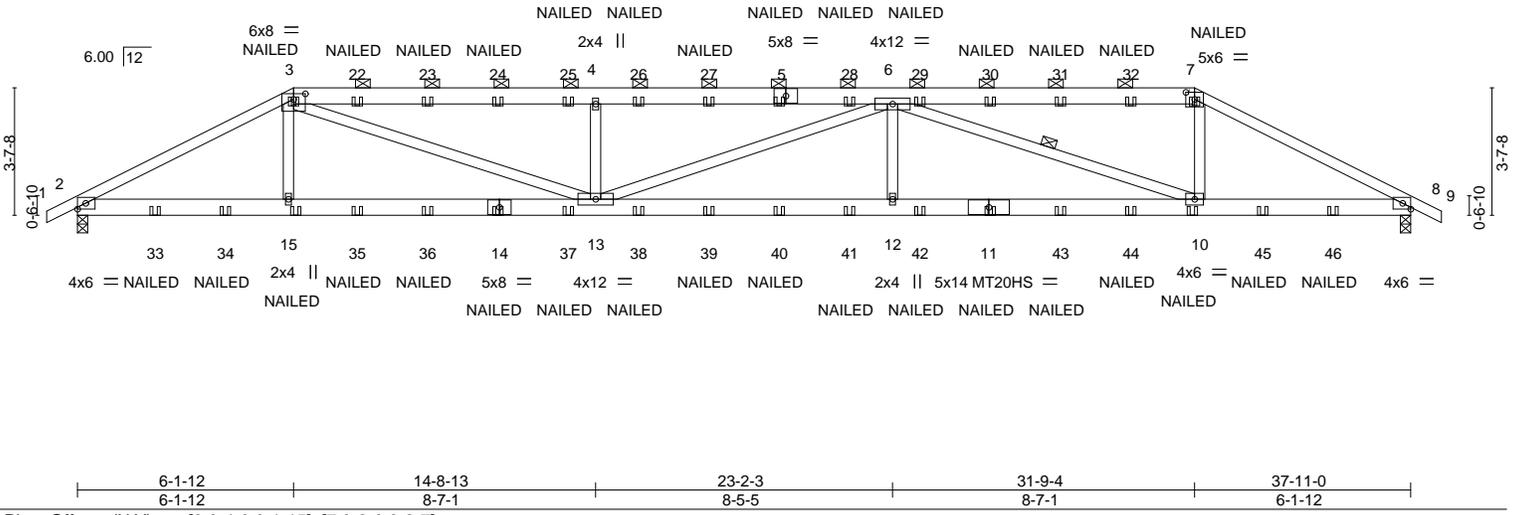


Plate Offsets (X,Y)--	[3:0-4-0,0-1-15], [7:0-3-0,0-2-7]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.76	Vert(LL) 0.54 12-13 >844 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.95	Vert(CT) -0.63 12-13 >719 240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.81	Horz(CT) 0.13 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 456 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 3-5: 2x6 SP No.1, 5-7: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-5 oc purlins, except 2-0-0 oc purlins (4-6-8 max.): 3-7.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-1-13 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 6-10

REACTIONS. (lb/size) 2=2959/0-3-8, 8=2961/0-3-8
 Max Horz 2=79(LC 12)
 Max Uplift 2=-1523(LC 8), 8=-1525(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-5583/2974, 3-4=-8876/5050, 4-6=-8872/5046, 6-7=-4853/2667, 7-8=-5591/2979
 BOT CHORD 2-15=-2632/4922, 13-15=-2637/4906, 12-13=-4973/8869, 10-12=-4973/8869, 8-10=-2591/4930
 WEBS 3-15=0/527, 3-13=-2579/4311, 4-13=-1173/1086, 6-12=0/583, 6-10=-4352/2610, 7-10=-758/1801

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1523 lb uplift at joint 2 and 1525 lb uplift at joint 8.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15



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Continued on page 2

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Job 2173409	Truss A17	Truss Type Hip Girder	Qty 1	Ply 2	H&H/Venture/Lot2/NewHorizons/Lillington I39540951 Job Reference (optional)
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Dec 9 11:58:30 2019 Page 2
ID:be0DwDII4HqVt2cDPs6iUUyOt3D-w9fLG1I166?5mWhmmpeK43FNc2NcsY1RPxPMMLyAiSt

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-60, 3-7=-60, 7-9=-60, 16-19=-20

Concentrated Loads (lb)

Vert: 3=-124(B) 5=-124(B) 7=-124(B) 14=-37(B) 15=-37(B) 10=-37(B) 11=-37(B) 22=-124(B) 23=-124(B) 24=-124(B) 25=-124(B) 26=-124(B) 27=-124(B) 28=-124(B) 29=-124(B) 30=-124(B) 31=-124(B) 32=-124(B) 33=-103(B) 34=-161(B) 35=-37(B) 36=-37(B) 37=-37(B) 38=-37(B) 39=-37(B) 40=-37(B) 41=-37(B) 42=-37(B) 43=-37(B) 44=-37(B) 45=-161(B) 46=-103(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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Job 2173409	Truss B01	Truss Type Common Supported Gable	Qty 1	Ply 1	H&H/Venture/Lot2/NewHorizons/Lillington 139540952
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Dec 9 11:58:31 2019 Page 1

ID:be0DwDII4HqVt2cDPs6iUUYOt3D-OLCjUNJwsQ7yOgGyKXz9dGoh8SvQbArbeb8vuoyAiSs



Scale = 1:22.1

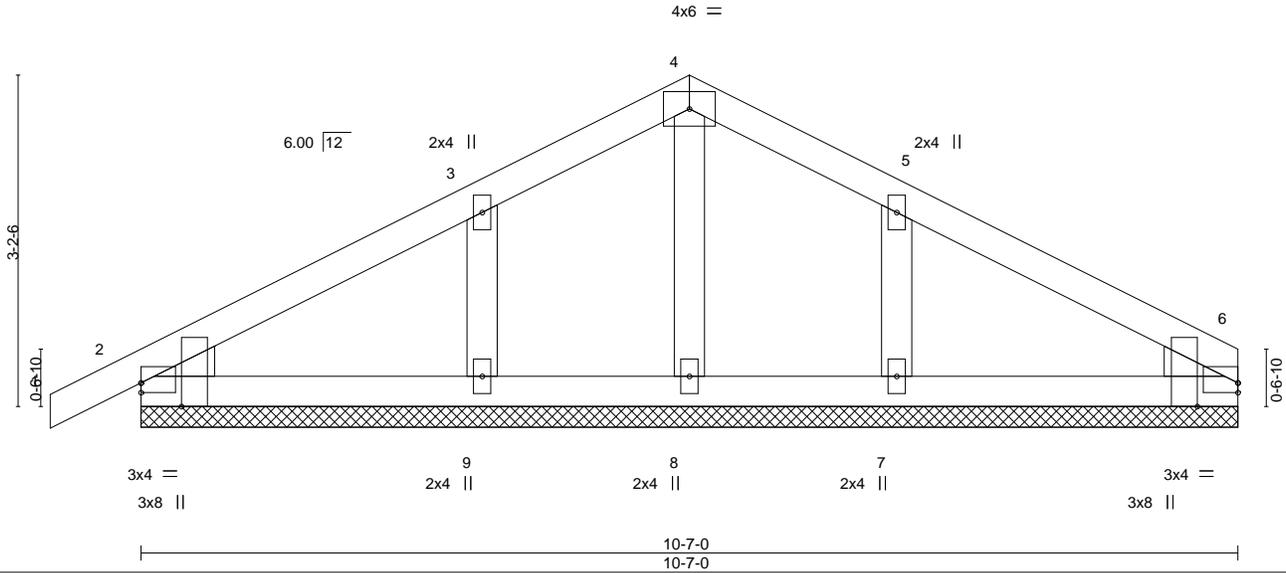


Plate Offsets (X, Y)-- [2:0-0-0,0-1-2], [2:0-2-12,Edge], [6:Edge,0-1-2], [6:0-2-12,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	-0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 46 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 10-7-0.
(lb) - Max Horz 2=74(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 9=144(LC 12), 7=149(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 6 except 9=264(LC 1), 7=277(LC 24)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 9=144, 7=149.



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Job 2173409	Truss B02	Truss Type Common	Qty 2	Ply 1	H&H/Venture/Lot2/NewHorizons/Lillington 139540953
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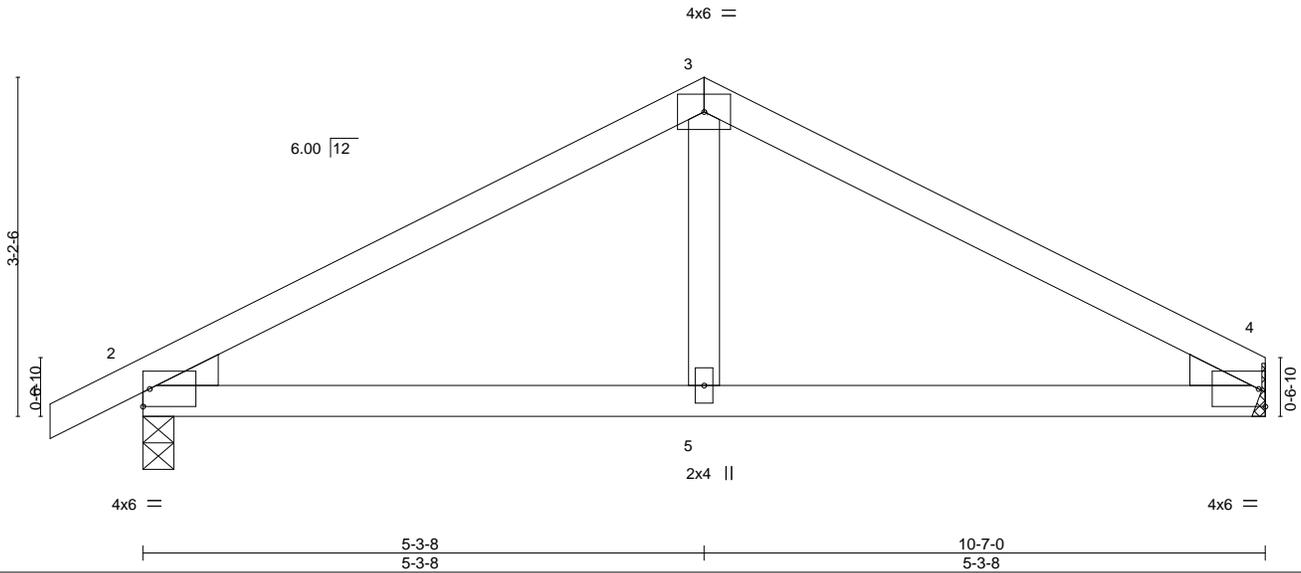
Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Dec 9 11:58:32 2019 Page 1

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Scale = 1:21.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	-0.02	5-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.27	Vert(CT)	-0.04	5-8	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.01	2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.02	5-8	>999	240	Weight: 41 lb	FT = 20%

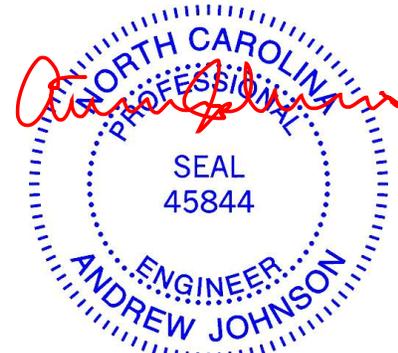
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 4=421/Mechanical, 2=478/0-3-8
 Max Horz 2=79(LC 12)
 Max Uplift 4=-110(LC 13), 2=-140(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-564/303, 3-4=-563/302
 BOT CHORD 2-5=-170/443, 4-5=-170/443

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=110, 2=140.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



December 9, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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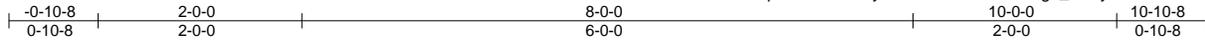
818 Soundside Road
 Edenton, NC 27932

Job 2173409	Truss H01	Truss Type HIP GIRDER	Qty 1	Ply 1	H&H/Venture/Lot2/NewHorizons/Lillington Job Reference (optional)	139540954
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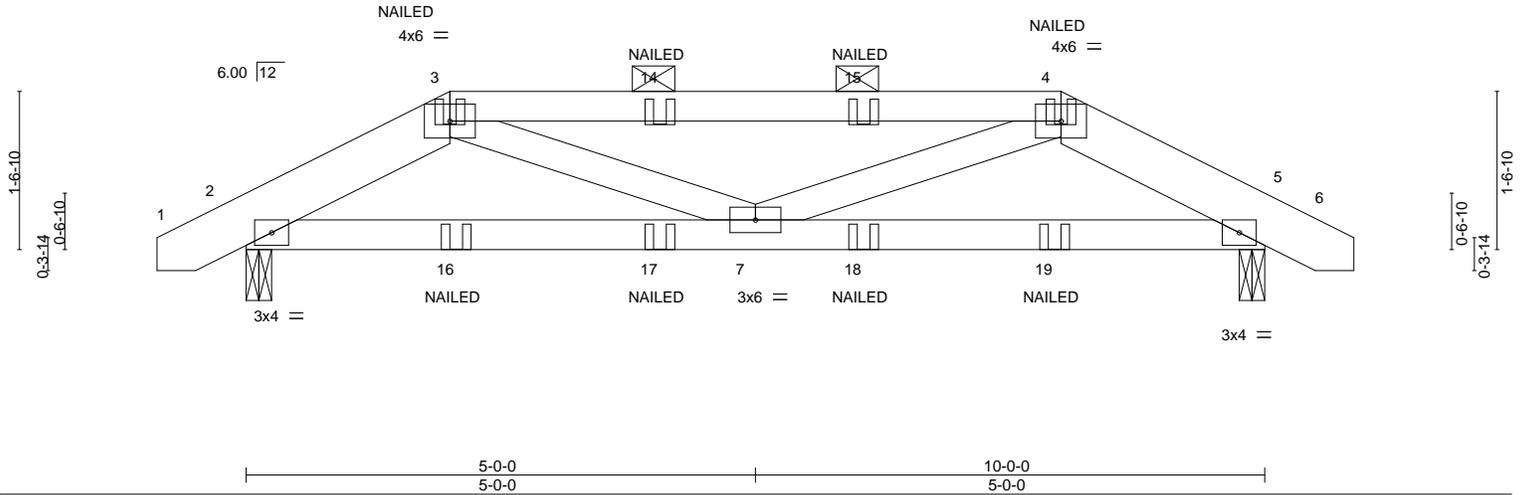
Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Dec 9 11:58:33 2019 Page 1

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Scale = 1:22.5



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.56	Vert(LL)	0.03 7-10	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.24	Vert(CT)	-0.03 7-10	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.05	Horz(CT)	0.01 5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 49 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.2 *Except*
 3-4: 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (5-10-15 max.); 3-4.
 BOT CHORD Rigid ceiling directly applied or 9-7-8 oc bracing.

REACTIONS. (lb/size) 2=445/0-3-0, 5=445/0-3-0
 Max Horz 2=33(LC 8)
 Max Uplift 2=-254(LC 5), 5=-254(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-650/433, 3-4=-677/467, 4-5=-650/433
 BOT CHORD 2-7=-376/575, 5-7=-364/575

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=254, 5=254.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-4=-60, 4-6=-60, 8-11=-20
 Concentrated Loads (lb)
 Vert: 16=-2(B) 17=-2(B) 18=-2(B) 19=-2(B)



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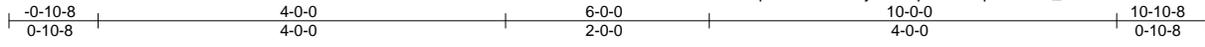
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

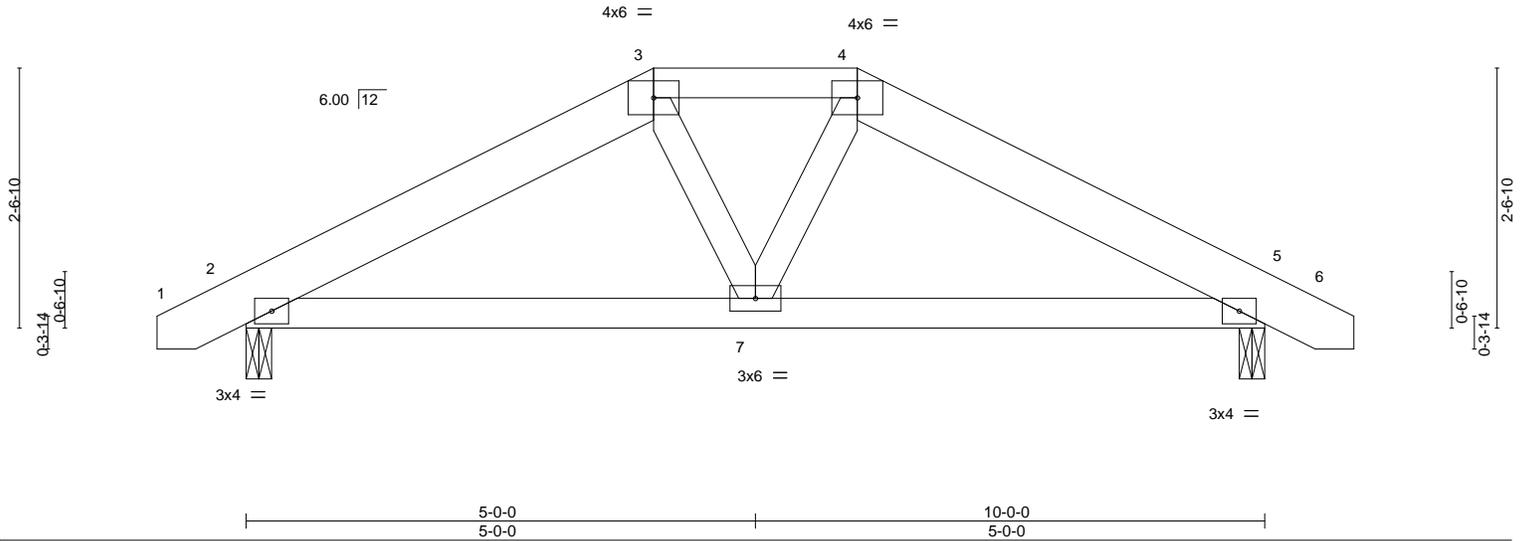


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Venture/Lot2/NewHorizons/Lillington	139540955
2173409	H02	HIP	1	1		
Builders FirstSource, Sumter, SC - 29153,						8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Dec 9 11:58:34 2019 Page 1
						ID:be0DwDII4HqVt2cDPs6iUyOt3D-pwur6PLp9LVXF7_X?fiGFvQCnfv4oX11KZNaV6yAiSp
						Job Reference (optional)



Scale = 1:22.5



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.17	Vert(LL)	0.03	7-13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.21	Vert(CT)	-0.02	7-10	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.01	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS						
								Weight: 51 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 3-4: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 2=441/0-3-0, 5=441/0-3-0
 Max Horz 2=55(LC 12)
 Max Uplift 2=-175(LC 9), 5=-175(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-521/696, 3-4=-453/745, 4-5=-521/695
 BOT CHORD 2-7=-518/430, 5-7=-519/430

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=175, 5=175.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 9, 2019

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Job 2173409	Truss H03	Truss Type COMMON	Qty 1	Ply 1	H&H/Venture/Lot2/NewHorizons/Lillington 139540956
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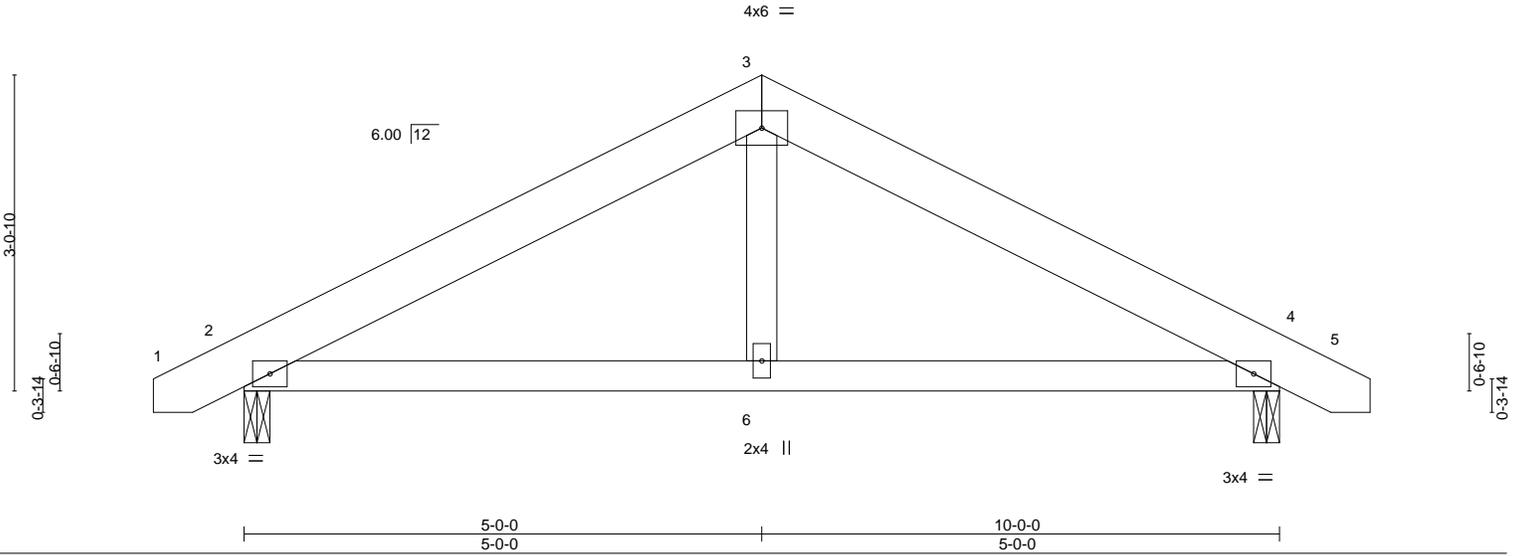
Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Dec 9 11:58:34 2019 Page 1

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Scale = 1:22.1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	0.03	6-12	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.22	Vert(CT)	-0.02	6-9	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.01	4	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-AS							
									Weight: 50 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

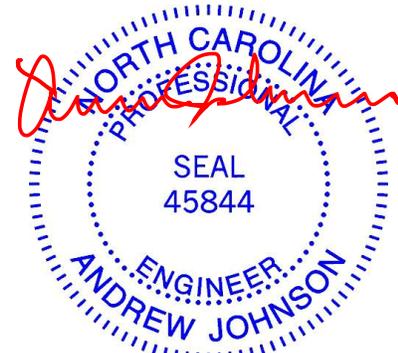
BRACING-
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 2=441/0-3-0, 4=441/0-3-0
 Max Horz 2=64(LC 12)
 Max Uplift 2=-146(LC 9), 4=-146(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-518/708, 3-4=-518/708
 BOT CHORD 2-6=-529/430, 4-6=-529/430
 WEBS 3-6=-293/196

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=146, 4=146.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



December 9, 2019

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818 Soundside Road
 Edenton, NC 27932

Job 2173409	Truss J01	Truss Type JACK-PARTIAL	Qty 18	Ply 1	H&H/Venture/Lot2/NewHorizons/Lillington 139540957
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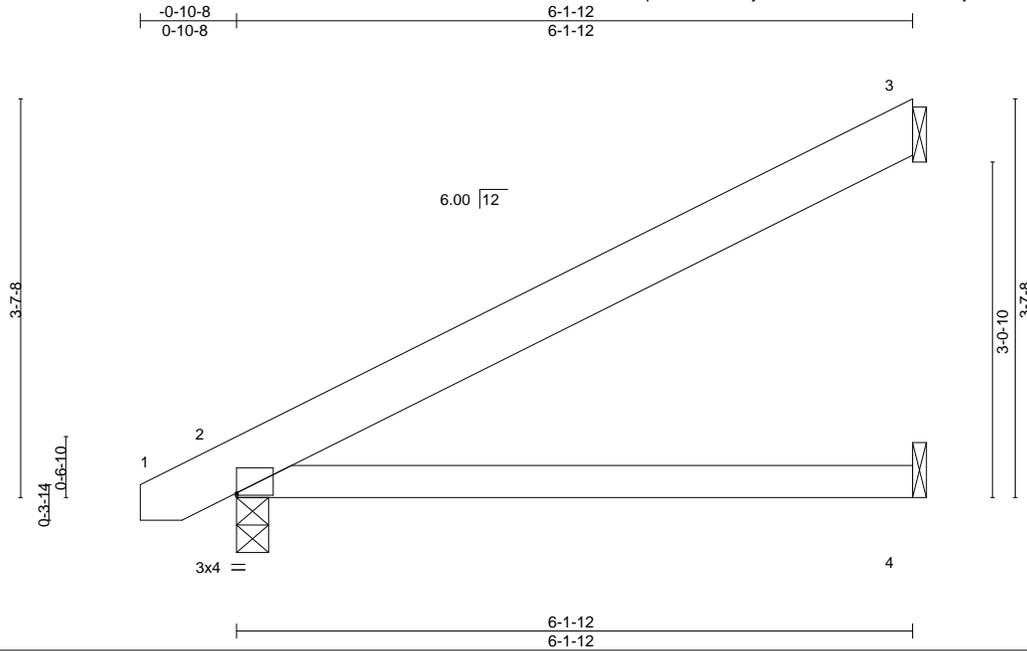


Plate Offsets (X,Y)--	[2:0-0-0,0-0-4]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) -0.04 4-7 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.29	Vert(CT) -0.08 4-7 >874 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.01 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.04 4-7 >999 240	Weight: 28 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 3=184/Mechanical, 2=287/0-3-8, 4=57/Mechanical
 Max Horz 2=174(LC 12)
 Max Uplift 3=-145(LC 12), 2=-66(LC 12)
 Max Grav 3=184(LC 1), 2=287(LC 1), 4=96(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 3=145.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



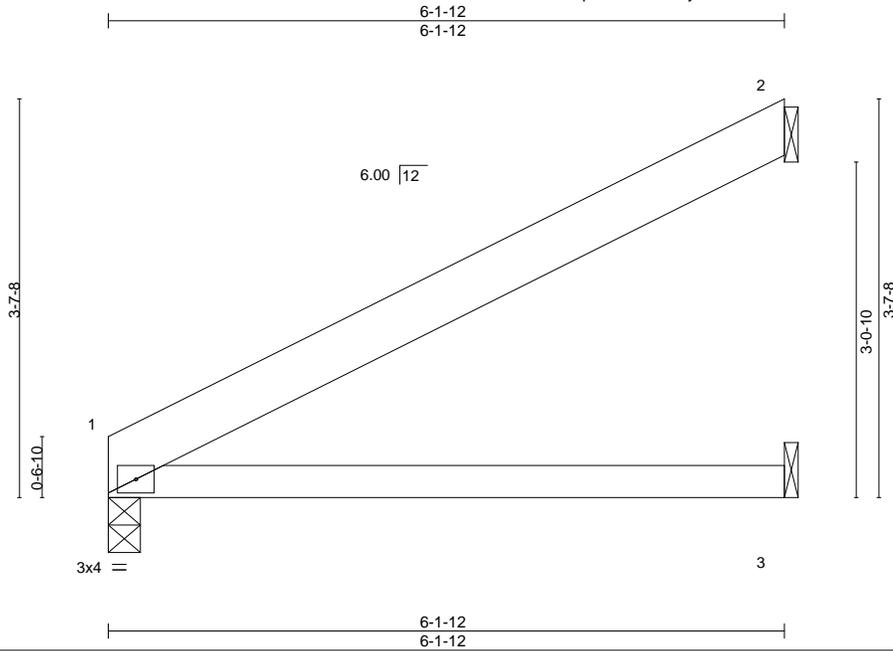
December 9, 2019

Job 2173409	Truss J01A	Truss Type JACK-PARTIAL	Qty 3	Ply 1	H&H/Venture/Lot2/NewHorizons/Lillington 139540958
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Dec 9 11:58:35 2019 Page 1

ID:be0DwDII4HqVt2cDPs6iUUyOt3D-H6SEJkMRwedNsHZjZMEVn6zLh3E2X_wAZD671ZyAiSo



Scale = 1:20.8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.29	Vert(LL)	-0.04 3-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.08 3-6	>868	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01 2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.04 3-6	>999	240	Weight: 26 lb	FT = 20%

LUMBER-

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

BRACING-

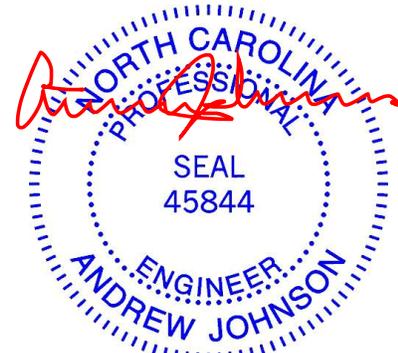
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 1=243/0-3-8, 2=186/Mechanical, 3=57/Mechanical
Max Horz 1=159(LC 12)
Max Uplift 1=-42(LC 12), 2=-146(LC 12)
Max Grav 1=243(LC 1), 2=186(LC 1), 3=96(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 2=146.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



December 9, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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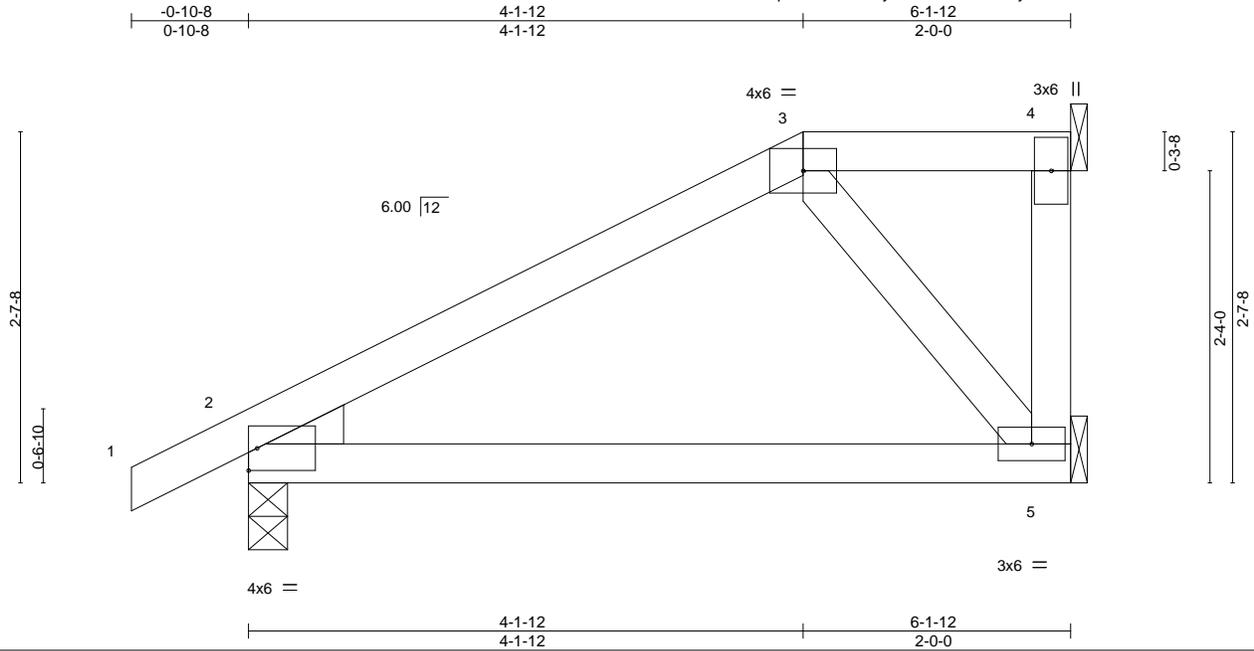


818 Soundside Road
Edenton, NC 27932

Job 2173409	Truss J02	Truss Type Half Hip	Qty 2	Ply 1	H&H/Venture/Lot2/NewHorizons/Lillington Job Reference (optional)	139540959
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Dec 9 11:58:36 2019 Page 1
ID:be0DwDII4HqVt2cDPs6iUyOt3D-JJ0cX4M3hylEUR8v74kKKVWITZRGRCKotsga?yAiSn



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.27	Vert(LL)	-0.05 5-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.35	Vert(CT)	-0.10 5-8	>701	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.01 2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.03 5-8	>999	240	Weight: 29 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	
WEDGE	
Left: 2x4 SP No.3	

REACTIONS. (lb/size) 2=296/0-3-8, 5=181/Mechanical, 4=56/Mechanical
Max Horz 2=131(LC 11)
Max Uplift 2=97(LC 12), 5=43(LC 12), 4=37(LC 8)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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
- 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 2, 5, 4.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



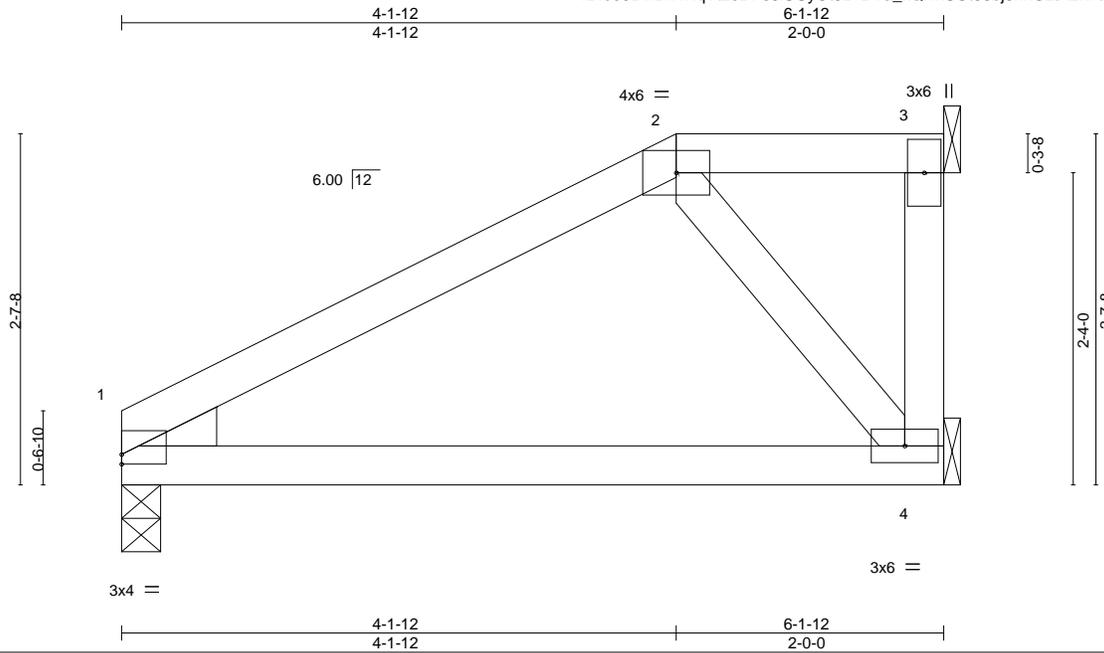
December 9, 2019

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job 2173409	Truss J02A	Truss Type HALF HIP	Qty 1	Ply 1	H&H/Venture/Lot2/NewHorizons/Lillington 139540960
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Dec 9 11:58:37 2019 Page 1
ID:be0DwDII4HqVt2cDPs6iUUYOt3D-DVa_kQNhSGt56bj6hnGztX2hFtub?uXT0XbE6RyAiSm



Scale = 1:17.1

Plate Offsets (X,Y)--	[1:0-0-0,0-0-14]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) -0.05 4-7 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.35	Vert(CT) -0.10 4-7 >691 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.01 1 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.03 4-7 >999 240	Weight: 27 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins: 2-3.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 1=240/0-3-8, 4=184/Mechanical, 3=56/Mechanical
Max Horz 1=109(LC 12)
Max Uplift 1=-55(LC 12), 4=-56(LC 12), 3=-37(LC 8)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 1, 4, 3.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



December 9, 2019

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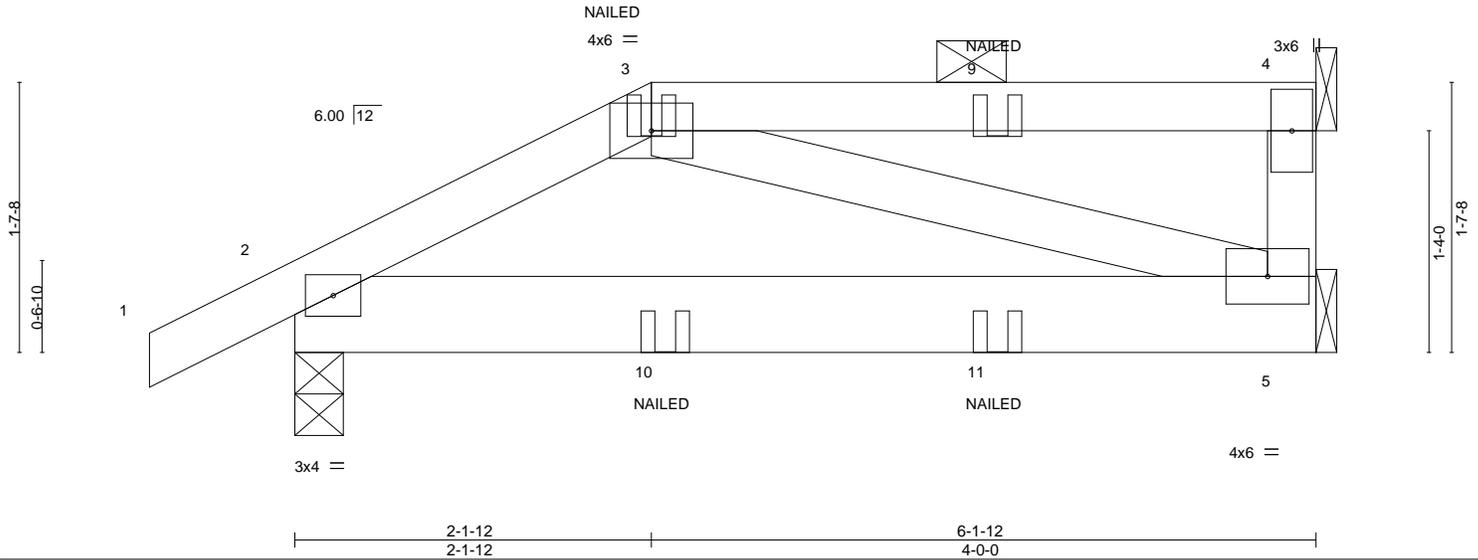
818 Soundside Road
Edenton, NC 27932

Job 2173409	Truss J03	Truss Type Half Hip Girder	Qty 2	Ply 1	H&H/Venture/Lot2/NewHorizons/Lillington 139540961
Builders FirstSource, Sumter, SC - 29153,					Job Reference (optional)

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Dec 9 11:58:37 2019 Page 1
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Scale = 1:13.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.32	Vert(LL)	-0.01	5-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	-0.03	5-8	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.07	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.01	5-8	>999	Weight: 33 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 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: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=299/0-3-8, 5=123/Mechanical, 4=116/Mechanical
Max Horz 2=76(LC 8)
Max Uplift 2=-117(LC 8), 5=-24(LC 5), 4=-81(LC 4)
Max Grav 2=299(LC 1), 5=142(LC 3), 4=116(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-251/140

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4 except (jt=lb) 2=117.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 5-6=-20
Concentrated Loads (lb)
Vert: 10=-2(F) 11=-2(F)



December 9, 2019

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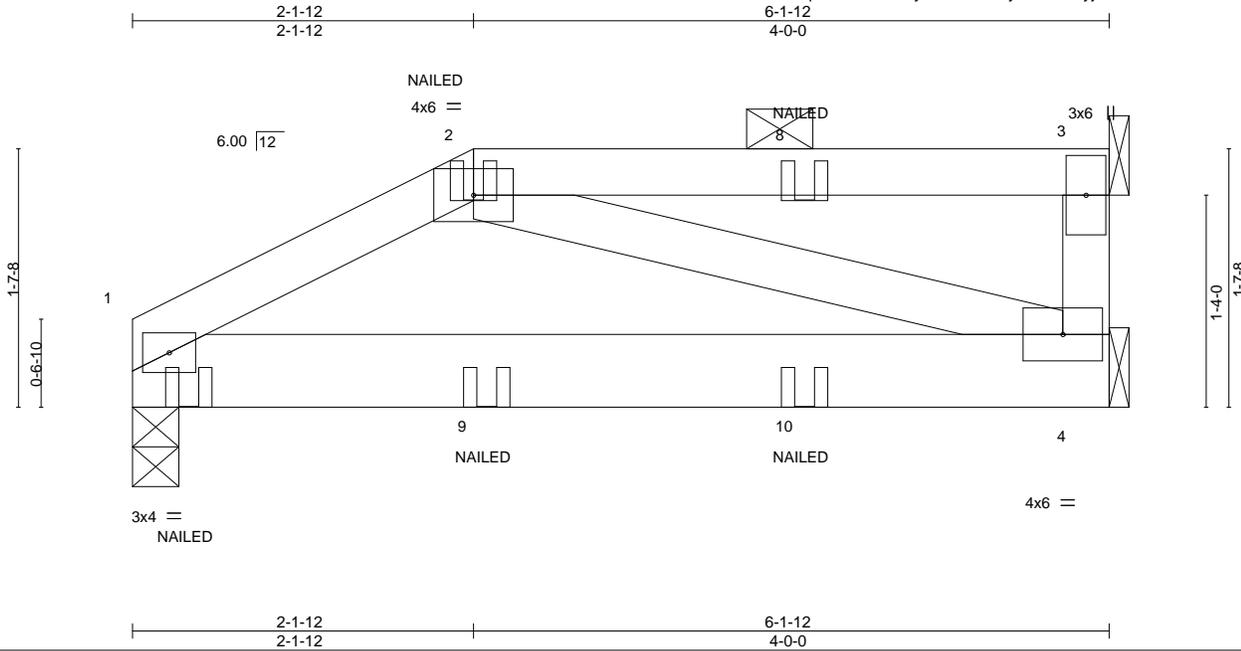


818 Soundside Road
Edenton, NC 27932

Job 2173409	Truss J03A	Truss Type HALF HIP GIRDER	Qty 1	Ply 1	H&H/Venture/Lot2/NewHorizons/Lillington Job Reference (optional)	139540962
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Dec 9 11:58:38 2019 Page 1
ID:be0DwDII4HqVt2cDPs6iUUyOt3D-hh8MymOJDZ?yjlIIEVnCPlarRGHckKbcFBLneuyAiSI



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.32	Vert(LL)	-0.01	4-7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	-0.03	4-7	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.07	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.01	4-7	>999	Weight: 31 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 2-3.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (lb/size) 1=250/0-3-8, 4=128/Mechanical, 3=116/Mechanical
 Max Horz 1=64(LC 7)
 Max Uplift 1=98(LC 8), 4=-28(LC 5), 3=-81(LC 4)
 Max Grav 1=250(LC 1), 4=144(LC 3), 3=116(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-256/147

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 1, 4, 3.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-3=-60, 4-5=-20
 Concentrated Loads (lb)
 Vert: 7=-8(F) 9=-2(F) 10=-2(F)



December 9, 2019

Job 2173409	Truss J04	Truss Type Jack-Open	Qty 6	Ply 1	H&H/Venture/Lot2/NewHorizons/Lillington 139540963
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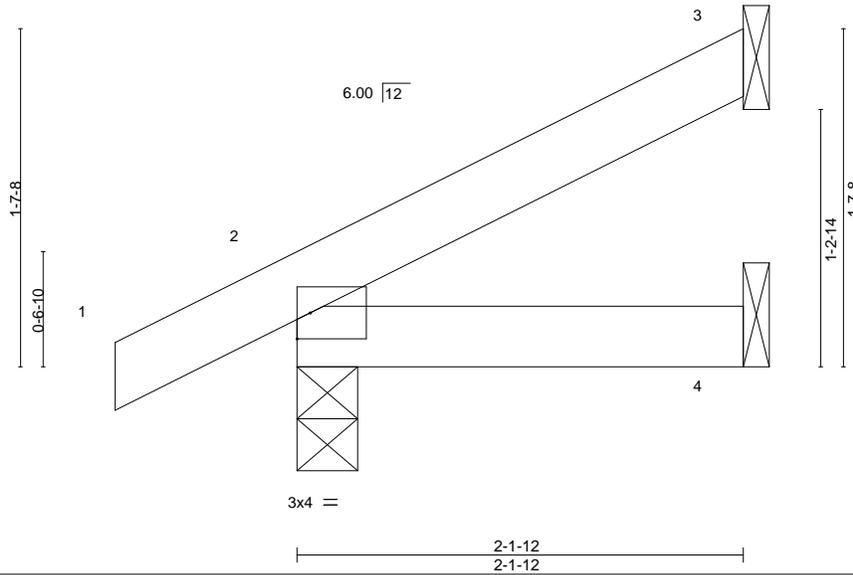
Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Dec 9 11:58:38 2019 Page 1

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Scale = 1:11.0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	-0.00	7 >999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	4-7 >999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3 n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.00	7 >999	240	Weight: 8 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-1-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=51/Mechanical, 2=147/0-3-8, 4=22/Mechanical
Max Horz 2=74(LC 12)
Max Uplift 3=-46(LC 12), 2=-44(LC 12)
Max Grav 3=51(LC 1), 2=147(LC 1), 4=37(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



December 9, 2019

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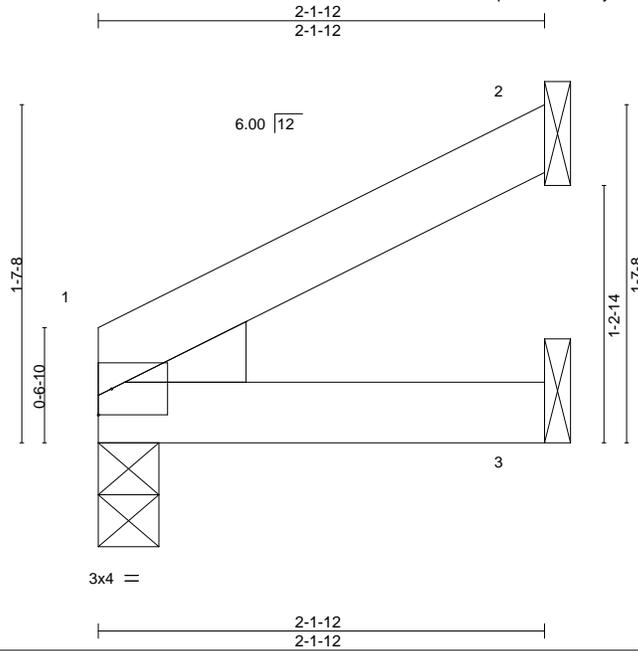


818 Soundside Road
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Job 2173409	Truss J04A	Truss Type JACK-OPEN	Qty 1	Ply 1	H&H/Venture/Lot2/NewHorizons/Lillington 139540964
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Dec 9 11:58:39 2019 Page 1
ID:be0DwDII4HqVt2cDPs6iUUyOt3D-9thk96Px_t7pLvUoClRyy75GgfaTowmUr4KBKyAiSk



Scale = 1:11.0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	0.00	6	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.00	3-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP						Weight: 8 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-1-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=83/0-3-8, 2=56/Mechanical, 3=27/Mechanical
Max Horz 1=54(LC 12)
Max Uplift 1=-9(LC 12), 2=-49(LC 12), 3=-1(LC 12)
Max Grav 1=83(LC 1), 2=56(LC 1), 3=39(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2, 3.



December 9, 2019

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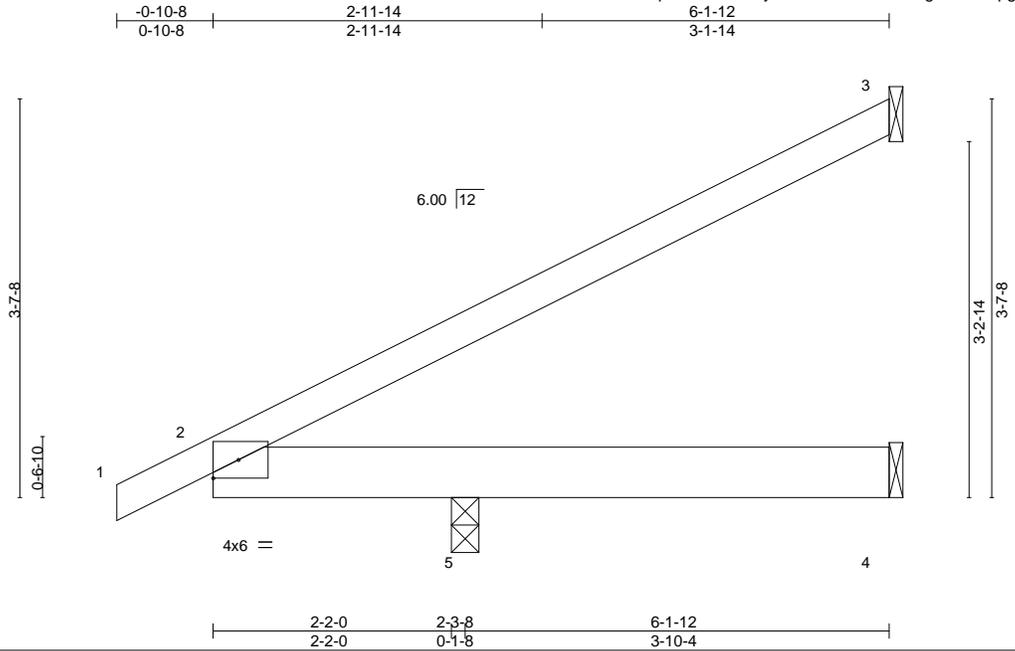
818 Soundside Road
Edenton, NC 27932

Job 2173409	Truss J05	Truss Type Jack-Partial	Qty 3	Ply 1	H&H/Venture/Lot2/NewHorizons/Lillington 139540965
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Dec 9 11:58:40 2019 Page 1

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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.49	Vert(LL)	0.01	4-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.40	Vert(CT)	0.02	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.04	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	-0.01	4-5	>999	240	Weight: 26 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 3=119/Mechanical, 4=61/Mechanical, 5=481/0-3-0
 Max Horz 5=178(LC 12)
 Max Uplift 3=117(LC 12), 4=69(LC 20), 5=116(LC 12)
 Max Grav 3=119(LC 1), 4=33(LC 12), 5=481(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 BOT CHORD 2-5=-92/272

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=117, 5=116.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



December 9, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

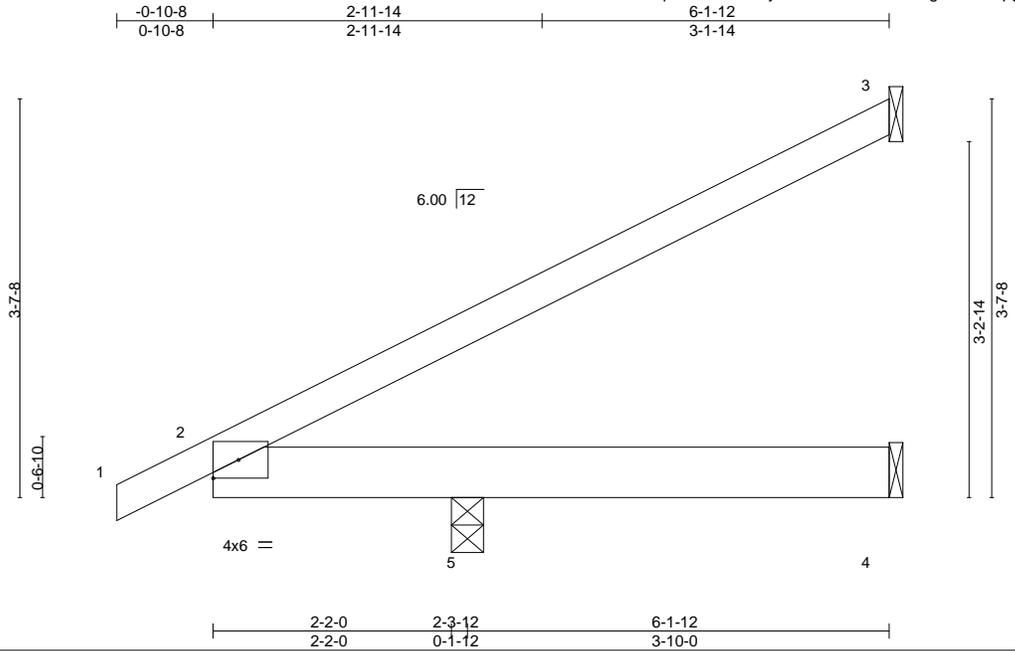
ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 2173409	Truss J06	Truss Type Jack-Partial	Qty 1	Ply 1	H&H/Venture/Lot2/NewHorizons/Lillington Job Reference (optional)	139540966
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Dec 9 11:58:40 2019 Page 1
ID:be0DwDII4HqVt2cDPs6iUUyOt3D-d4F7MSPalBFgz2ShMwpgUAg9I4vQCFAviUqjmyAiSj



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.49	Vert(LL)	0.01	4-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.41	Vert(CT)	0.02	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.05	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	-0.01	4-5	>999	240	Weight: 26 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 3=119/Mechanical, 4=63/Mechanical, 5=483/0-3-8
Max Horz 5=178(LC 12)
Max Uplift 3=117(LC 12), 4=63(LC 1), 5=117(LC 12)
Max Grav 3=119(LC 1), 4=34(LC 12), 5=483(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 2-5=-92/272

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=117, 5=117.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



December 9, 2019

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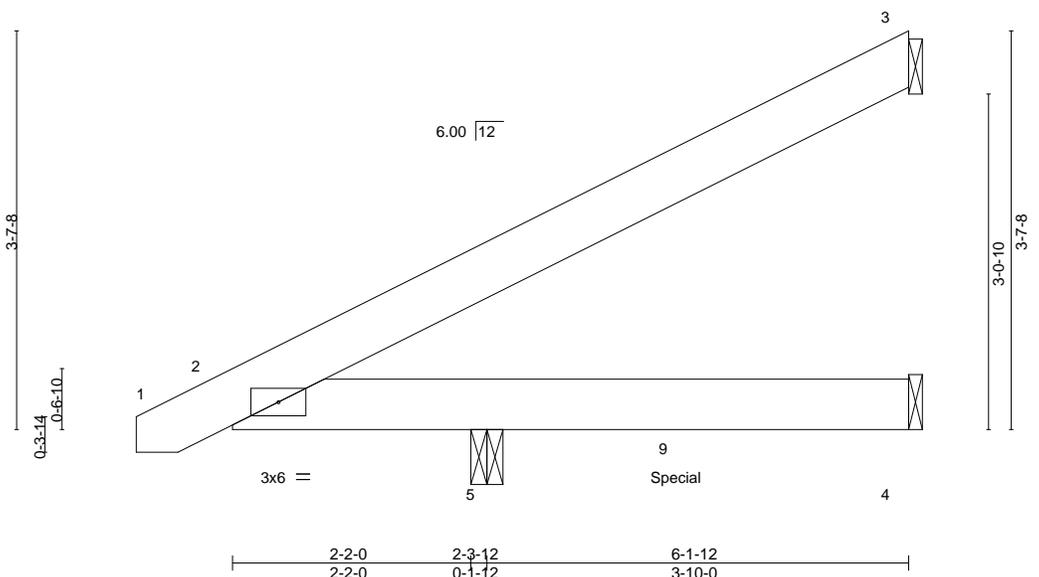
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Venture/Lot2/NewHorizons/Lillington	139540967
2173409	J07	JACK-PARTIAL GIRDER	1	1		
Builders FirstSource, Sumter, SC - 29153,						Job Reference (optional)

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Dec 9 11:58:41 2019 Page 1
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Scale = 1:20.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.24	Vert(LL)	0.02	4-5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.35	Vert(CT)	-0.01	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MP						Weight: 33 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=115/Mechanical, 4=136/Mechanical, 5=678/0-3-8
 Max Horz 5=174(LC 8)
 Max Uplift 3=-121(LC 8), 4=-104(LC 7), 5=-217(LC 8)
 Max Grav 3=115(LC 1), 4=150(LC 3), 5=678(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left exposed; end vertical left exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=121, 4=104, 5=217.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 401 lb down and 208 lb up at 4-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 4-6=-20
 Concentrated Loads (lb)
 Vert: 9=-401(B)



Job 2173409	Truss J10	Truss Type Jack-Open	Qty 4	Ply 1	H&H/Venture/Lot2/NewHorizons/Lillington 139540968
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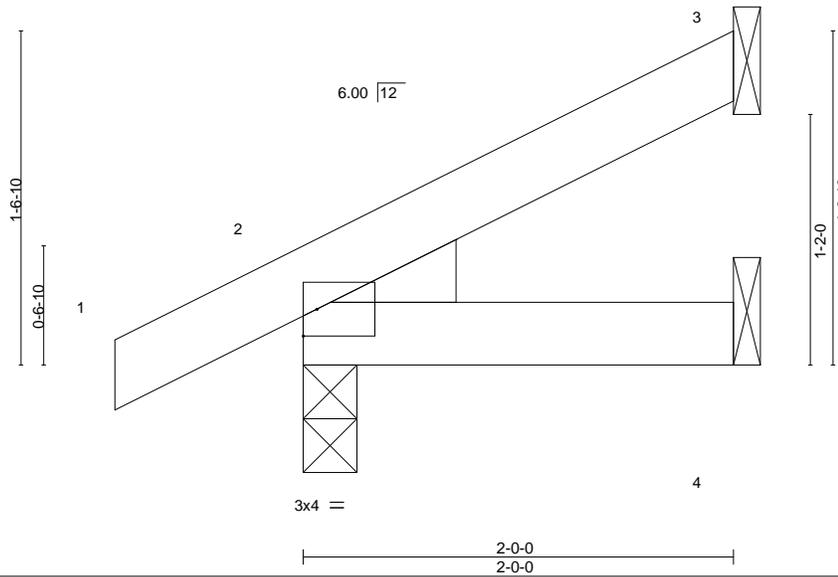
Builders FirstSource, Sumter, SC - 29153,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Dec 9 11:58:41 2019 Page 1

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Scale = 1:10.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	0.00	7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.00	4-7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP					Weight: 9 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=48/Mechanical, 2=144/0-3-0, 4=20/Mechanical
 Max Horz 2=71(LC 12)
 Max Uplift 3=-44(LC 12), 2=-43(LC 12), 4=-16(LC 9)
 Max Grav 3=48(LC 1), 2=144(LC 1), 4=36(LC 3)

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

NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.



December 9, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job 2173409	Truss V01	Truss Type GABLE	Qty 1	Ply 1	H&H/Venture/Lot2/NewHorizons/Lillington 139540969
Builders FirstSource, Sumter, SC - 29153,					Job Reference (optional)

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Dec 9 11:58:42 2019 Page 1
 ID:be0DwDII4HqVt2cDPs6iUyOt3D-aSNtn8RqHoVOCmc3TLs8ZbYmufWg8QCAoJ7nfyAiSh



Scale = 1:34.8

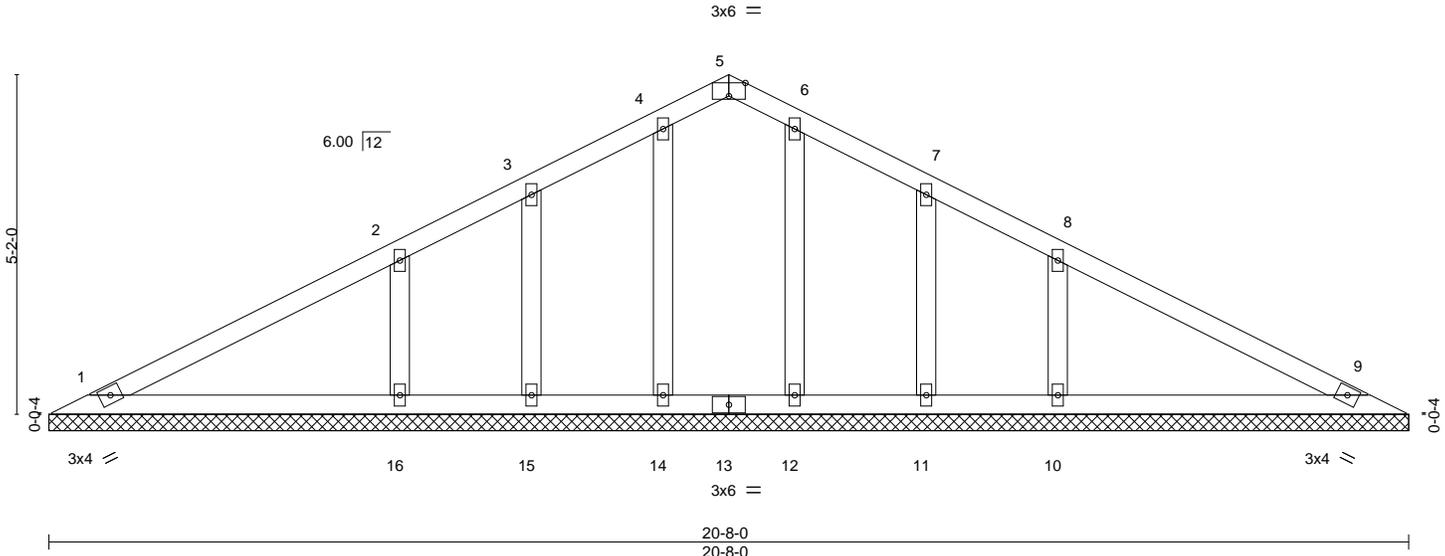


Plate Offsets (X,Y)-- [5:0-3-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.26	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 91 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 20-8-0.
 (lb) - Max Horz 1=109(LC 16)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 14, 15, 12, 11 except 16=199(LC 12), 10=198(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 9, 14, 15, 12, 11 except 16=391(LC 1), 10=391(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-16=279/268, 8-10=279/268

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 14, 15, 12, 11 except (jt=lb) 16=199, 10=198.



December 9, 2019

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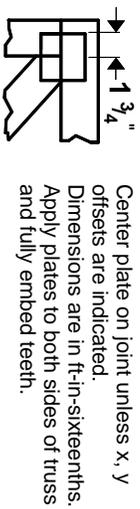
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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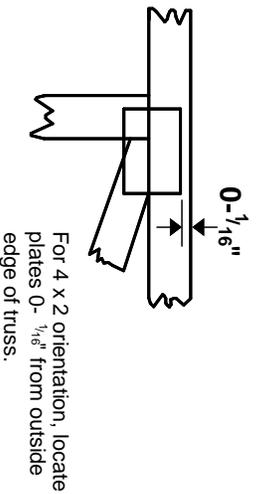
818 Soundside Road
 Edenton, NC 27932

Symbols

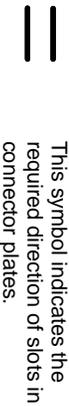
PLATE LOCATION AND ORIENTATION



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 SIZE

4 X 4

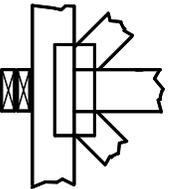
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

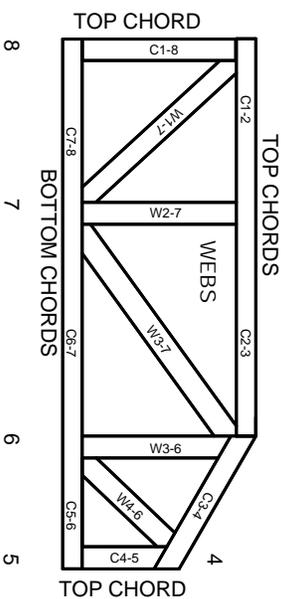


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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MITTEK Engineering Reference Sheet: MII-7473 rev. 10/03/2015



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. 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.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. 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.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. 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.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.