

RE: 2227286 - H&H/Southport/

Trenco
 818 Soundside Rd
 Edenton, NC 27932

Site Information:

Project Customer: h and h Project Name: 2227286
 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: 150 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	I40248625	A01	2/13/20	35	I40248659	C02	2/13/20
2	I40248626	A02	2/13/20	36	I40248660		2/13/20
3	I40248627	A03	2/13/20	37	I40248661	C04	2/13/20
4	I40248628	A04	2/13/20	38	I40248662	C05	2/13/20
5	I40248629		2/13/20	39	I40248663	C06	2/13/20
6	I40248630	A06	2/13/20	40	I40248664	C07	2/13/20
7	I40248631	A07	2/13/20	41	I40248665	C08	2/13/20
8		A08	2/13/20		I40248666	C09	2/13/20
9	I40248633	A09	2/13/20	43	I40248667	C10	2/13/20
10	I40248634	A10	2/13/20	44	I40248668	CP01	2/13/20
11	I40248635	A11	2/13/20	45	I40248669	CP02	2/13/20
12	I40248636	A12	2/13/20	46	I40248670	D01	2/13/20
13	I40248637	A13	2/13/20	47	I40248671		2/13/20
14	I40248638		2/13/20	48	I40248672	D03	2/13/20
	I40248639	A15	2/13/20	49	I40248673	D04	2/13/20
16	I40248640	A17	2/13/20	50	I40248674		2/13/20
17		A18	2/13/20		I40248675	E02	2/13/20
18	I40248642	A19	2/13/20	52	I40248676	E03	2/13/20
19	I40248643	A20	2/13/20	53	I40248677	E04	2/13/20
20	I40248644	A21	2/13/20	54	I40248678	E05	2/13/20
21	I40248645	A22	2/13/20	55	I40248679	E06	2/13/20
22	I40248646		2/13/20	56	I40248680	G01	2/13/20
23	I40248647	A24	2/13/20	57	I40248681	G02	2/13/20
	I40248648	A25	2/13/20	58	I40248682	G04	2/13/20
25	I40248649	A26	2/13/20	59	I40248683	G05	2/13/20
26		A27	2/13/20		I40248684	G06	2/13/20
27	I40248651	A28	2/13/20	61	I40248685	G07	2/13/20
28	I40248652	A29	2/13/20	62	I40248686	G08	2/13/20
29	I40248653	A30	2/13/20	63	I40248687	G09	2/13/20
30	I40248654	A31	2/13/20	64	I40248688	G10	2/13/20
31	I40248655	B01	2/13/20	65	I40248689	G11	2/13/20
32	I40248656	B02	2/13/20	66	I40248690	J01	2/13/20
	I40248657	B03	2/13/20	67	I40248691	J02	2/13/20
34	I40248658	C01	2/13/20	68	I40248692	J03	2/13/20

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: Sevier, Scott

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

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.



February 13, 2020

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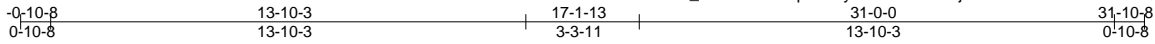
No.	Seal#	Job ID#	Truss Name	Date
69	I40248693	2227286	J04	2/13/20
70	I40248694	2227286	J05	2/13/20
71	I40248695	2227286	J06	2/13/20
72	I40248696	2227286	J07	2/13/20
73	I40248697	2227286	J08	2/13/20
74	I40248698	2227286	J09	2/13/20
75	I40248699	2227286	J10	2/13/20
76	I40248700	2227286	J11	2/13/20
77	I40248701	2227286	J12	2/13/20
78	I40248702	2227286	J13	2/13/20
79	I40248703	2227286	J14	2/13/20
80		2227286	J15	2/13/20
81	I40248705	2227286	J16	2/13/20
82	I40248706	2227286	J17	2/13/20
83	I40248707	2227286	J18	2/13/20
84	I40248708	2227286	J19	2/13/20
85	I40248709	2227286	J20	2/13/20
86	I40248710	2227286	J22	2/13/20
87	I40248711	2227286	J23	2/13/20
88	I40248712	2227286	J24	2/13/20
89		2227286	J25	2/13/20
90	I40248714	2227286	PB01	2/13/20
91	I40248715	2227286	PB02	2/13/20
92	I40248716	2227286	PB03	2/13/20
93	I40248717	2227286	PB04	2/13/20
94	I40248718	2227286	PB05	2/13/20
95	I40248719	2227286	PB06	2/13/20
96	I40248720	2227286	PB07	2/13/20
97	I40248721	2227286	PB08	2/13/20
98		2227286	V01	2/13/20
99	I40248723	2227286	V02	2/13/20
100	I40248724	2227286	V03	2/13/20
101	I40248725	2227286	V04	2/13/20
102	I40248726	2227286	V05	2/13/20
103	I40248727	2227286	V06	2/13/20
104	I40248728	2227286	V07	2/13/20
105	I40248729	2227286	V08	2/13/20
106	I40248730	2227286	V09	2/13/20
107		2227286	V10	2/13/20
108	I40248732	2227286	V11	2/13/20
109	I40248733	2227286	V12	2/13/20
110	I40248734	2227286	V13	2/13/20
111	I40248735	2227286	V14	2/13/20
112	I40248736	2227286	V15	2/13/20
113	I40248737	2227286	V16	2/13/20
114	I40248738	2227286	V17	2/13/20
115	I40248739	2227286	V18	2/13/20
116		2227286	V19	2/13/20
117	I40248741	2227286	V20	2/13/20
118	I40248742	2227286	V21	2/13/20

Job 2227286	Truss A01	Truss Type Piggyback Base Supported Gable	Qty 6	Ply 1	H&H/Southport/ Job Reference (optional)	140248625
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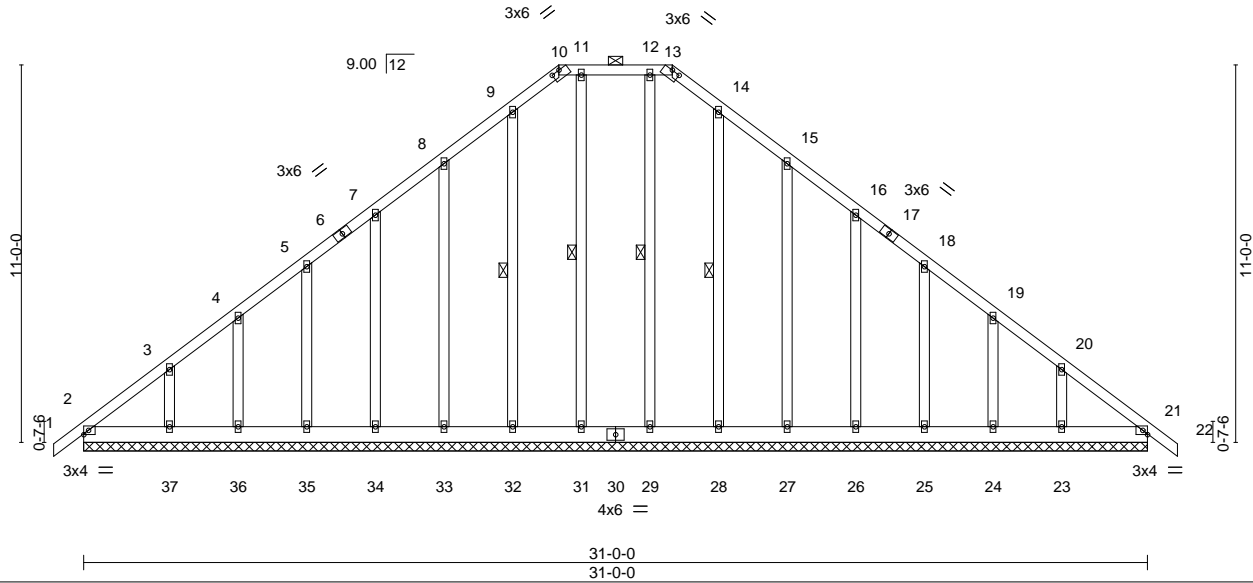


Plate Offsets (X,Y)--	[10:0-3-0,0-0-1], [13:0-3-0,0-0-1]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.16	Vert(LL)	-0.00	21	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	0.00	21	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.28	Horz(CT)	0.01	21	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 262 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
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (6-0-0 max.): 10-13.
OTHERS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
	WEBS 1 Row at midpt 12-29, 11-31, 9-32, 14-28

REACTIONS. All bearings 31-0-0.
 (lb) - Max Horz 2=-492(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 29, 31, 32, 28, 21 except 2=-133(LC 8), 33=-188(LC 12), 34=-165(LC 12), 35=-173(LC 12), 36=-155(LC 12), 37=-249(LC 12), 27=-193(LC 13), 26=-164(LC 13), 25=-173(LC 13), 24=-155(LC 13), 23=-244(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 29, 31, 32, 33, 34, 35, 36, 28, 27, 26, 25, 24, 21 except 2=261(LC 21), 37=264(LC 19), 23=258(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-547/366, 3-4=-367/290, 4-5=-254/247, 8-9=-265/316, 9-10=-319/367, 10-11=-291/346, 11-12=-291/346, 12-13=-291/346, 13-14=-319/367, 14-15=-265/303, 19-20=-292/182, 20-21=-469/328
 BOT CHORD 2-37=-308/454, 36-37=-308/454, 34-35=-308/454, 33-34=-308/454, 32-33=-308/454, 31-32=-308/454, 29-31=-308/454, 28-29=-308/454, 27-28=-308/454, 26-27=-308/454, 25-26=-308/454, 24-25=-308/454, 23-24=-308/454, 21-23=-308/454
 WEBS 3-37=-273/259, 20-23=-273/254

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 31, 32, 28, 21 except (jt=lb) 2=133, 33=188, 34=165, 35=173, 36=155, 37=249, 27=193, 26=164, 25=173, 24=155, 23=244.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 21.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 13, 2020

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.

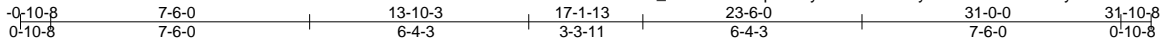
TRENCO ENGINEERING BY
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss A02	Truss Type Piggyback Base	Qty 30	Ply 1	H&H/Southport/ Job Reference (optional)	140248626
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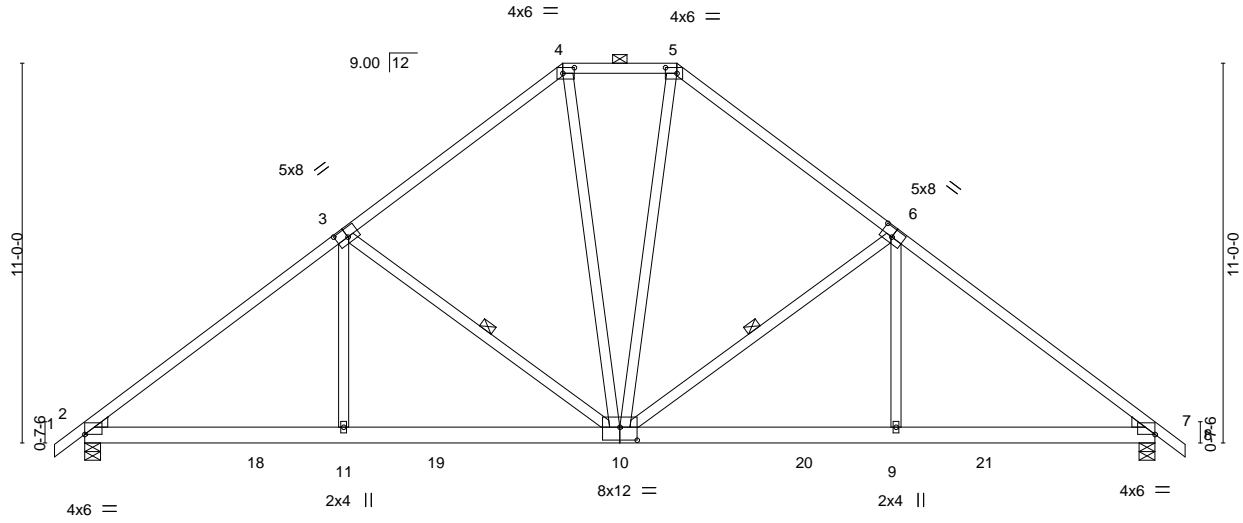


Plate Offsets (X, Y)--	[3:0-4-0,0-3-0], [4:0-4-0,0-2-0], [5:0-4-0,0-2-0], [6:0-4-0,0-3-0], [10:0-6-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.62	Vert(LL)	-0.05 10-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.33	Vert(CT)	-0.12 9-10	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.58	Horz(CT)	0.04 7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.08 11-14	>999	240	Weight: 209 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 (4-10-9 max.): 4-5.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
WEDGE	WEBS 1 Row at midpt 3-10, 6-10
Left: 2x4 SP No.3, Right: 2x4 SP No.3	

REACTIONS. (lb/size) 2=1293/0-5-8, 7=1293/0-5-8
 Max Horz 2=-492(LC 10)
 Max Uplift 2=-549(LC 12), 7=-549(LC 13)
 Max Grav 2=1330(LC 19), 7=1330(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1874/912, 3-4=-1421/836, 4-5=-1296/823, 5-6=-1421/836, 6-7=-1874/912
 BOT CHORD 2-11=-608/1592, 10-11=-608/1590, 9-10=-487/1341, 7-9=-486/1342
 WEBS 3-11=0/339, 3-10=-833/573, 4-10=-266/572, 5-10=-266/572, 6-9=0/339, 6-10=-832/574

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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) 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=549, 7=549.
- 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.



February 13, 2020

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TRENCO
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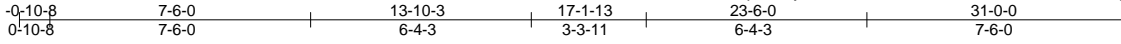
818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss A03	Truss Type Piggyback Base	Qty 57	Ply 1	H&H/Southport/ Job Reference (optional)	140248627
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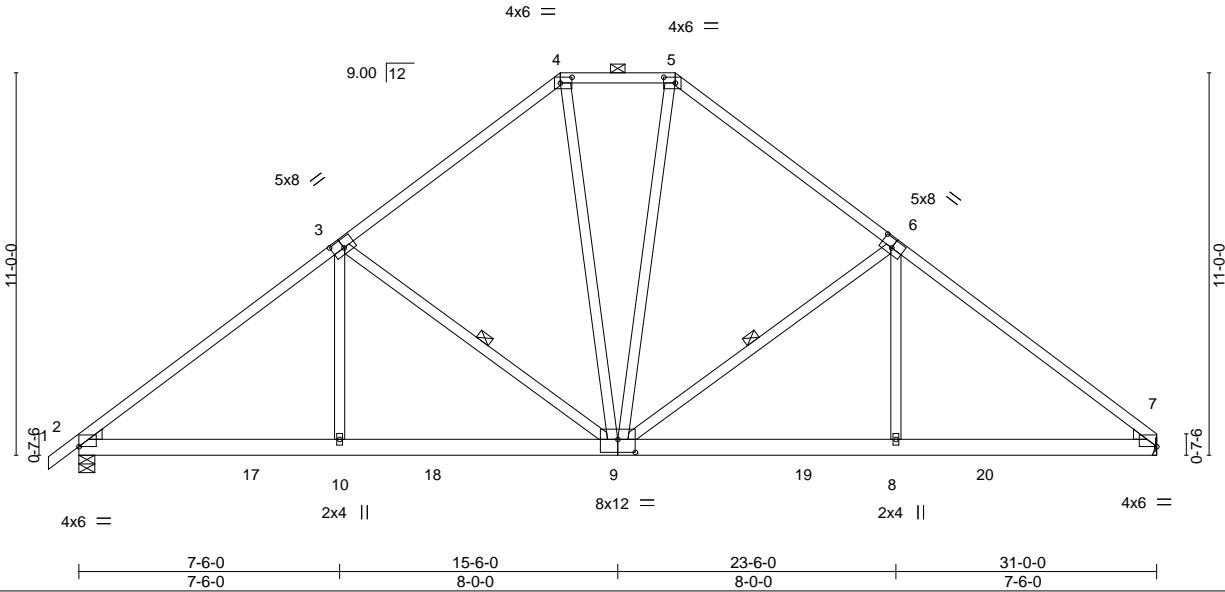


Plate Offsets (X,Y)--	[3:0-4-0,0-3-0], [4:0-4-0,0-2-0], [5:0-4-0,0-2-0], [6:0-4-0,0-3-0], [9:0-6-0,0-4-8]
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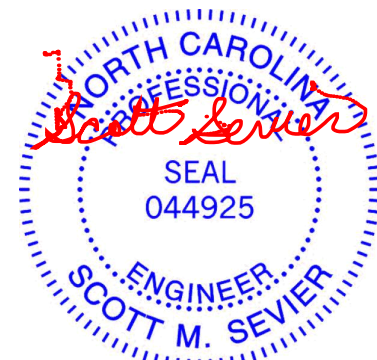
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.63	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.33	Vert(LL) -0.05 9-10 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.58	Vert(CT) -0.12 9-10 >999 240		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Horz(CT) 0.04 7 n/a n/a		
			Wind(LL) 0.08 10-13 >999 240	Weight: 207 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 (4-10-9 max.): 4-5.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
WEDGE	WEBS 1 Row at midpt 3-9, 6-9
Left: 2x4 SP No.3, Right: 2x4 SP No.3	

REACTIONS. (lb/size) 2=1293/0-5-8, 7=1239/Mechanical
 Max Horz 2=482(LC 9)
 Max Uplift 2=-549(LC 12), 7=-507(LC 13)
 Max Grav 2=1331(LC 19), 7=1276(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1875/915, 3-4=-1423/838, 4-5=-1297/825, 5-6=-1423/838, 6-7=-1874/917
 BOT CHORD 2-10=-628/1578, 9-10=-628/1576, 8-9=-528/1311, 7-8=-527/1312
 WEBS 3-10=0/339, 3-9=-833/573, 4-9=-266/572, 5-9=-266/572, 6-8=0/340, 6-9=-830/578

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=549, 7=507.
 - 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.



February 13, 2020

Job 2227286	Truss A05	Truss Type PIGGYBACK BASE	Qty 45	Ply 1	H&H/Southport/ Job Reference (optional)	140248629
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0-10-8	7-7-7	13-10-3	18-1-13	24-4-9	32-0-0	32-10-8
0-10-8	7-7-7	6-2-11	4-3-11	6-2-11	7-7-7	0-10-8

Scale = 1:65.9

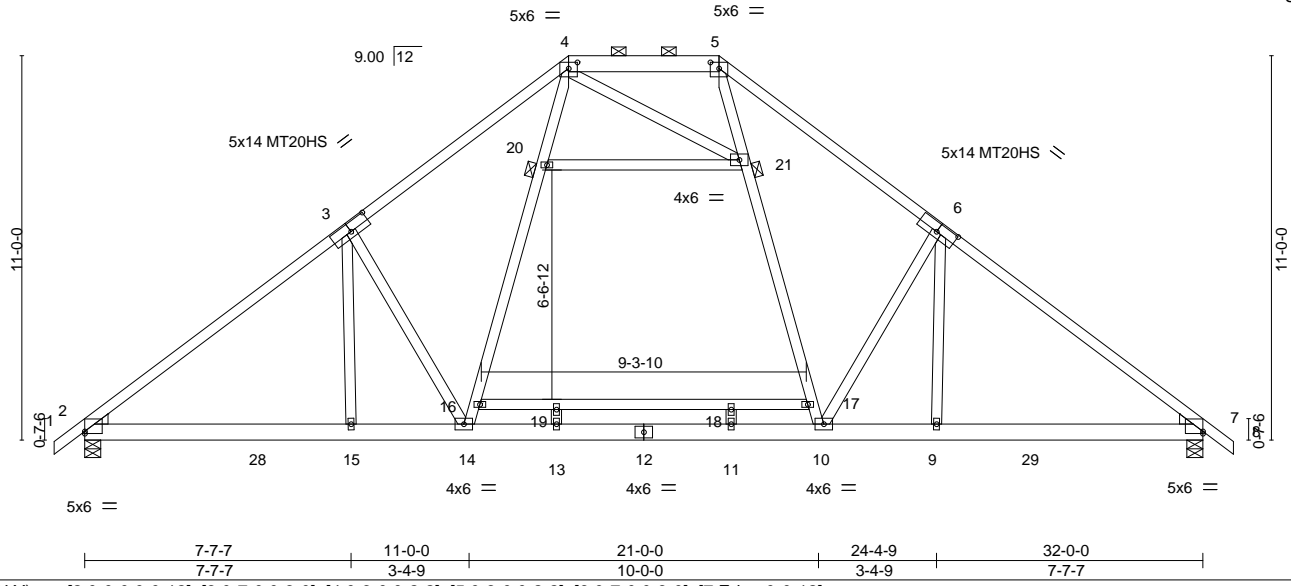


Plate Offsets (X, Y)--	[2:0-0-0,0-0-12], [3:0-7-0,0-3-0], [4:0-3-0,0-2-2], [5:0-3-0,0-2-2], [6:0-7-0,0-3-0], [7:Edge,0-0-12]
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LOADING (psf)	SPACING-	2-6-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.96	Vert(LL)	0.25	14	>999	240	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.62	Vert(CT)	-0.22	11-13	>999	240	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.81	Horz(CT)	0.04	7	n/a	n/a	
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 240 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 *Except* 4-5: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-10-12 oc purlins, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (5-7-9 max.): 4-5.
WEBS 2x4 SP No.3 *Except* 4-14,5-10,16-17: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-7-3 oc bracing.
	JOINTS 1 Brace at Jt(s): 20, 21

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

REACTIONS. (lb/size) 2=1666/0-5-8, 7=1666/0-5-8
Max Horz 2=-613(LC 10)
Max Uplift 2=-702(LC 12), 7=-702(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2396/1200, 3-4=-2282/1329, 4-5=-1659/1090, 5-6=-2282/1328, 6-7=-2396/1200
BOT CHORD 2-15=-798/1900, 14-15=-800/1906, 13-14=-250/1188, 11-13=-250/1188, 10-11=-250/1188,
9-10=-654/1722, 7-9=-654/1719
WEBS 3-14=-943/839, 14-16=-468/1009, 16-20=-462/1016, 4-20=-460/1013, 5-21=-460/1012,
17-21=-462/1016, 10-17=-467/1008, 6-10=-943/841, 3-15=-124/362, 6-9=-127/364,
4-21=-298/299

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=702, 7=702.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 13, 2020

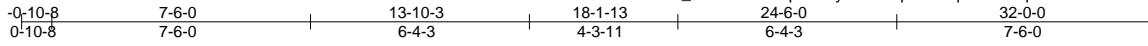
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 2227286	Truss A06	Truss Type Piggyback Base	Qty 21	Ply 1	H&H/Southport/ Job Reference (optional)	140248630
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Builders FirstSource, Sumter, SC - 29153,

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ID:oMYUFR_W5RnH0V88pNA3fyzorLo-opzJKGqL64G5LqImw5uRI2kRnBN?KJT9XHezYzldQC



Scale = 1:66.8

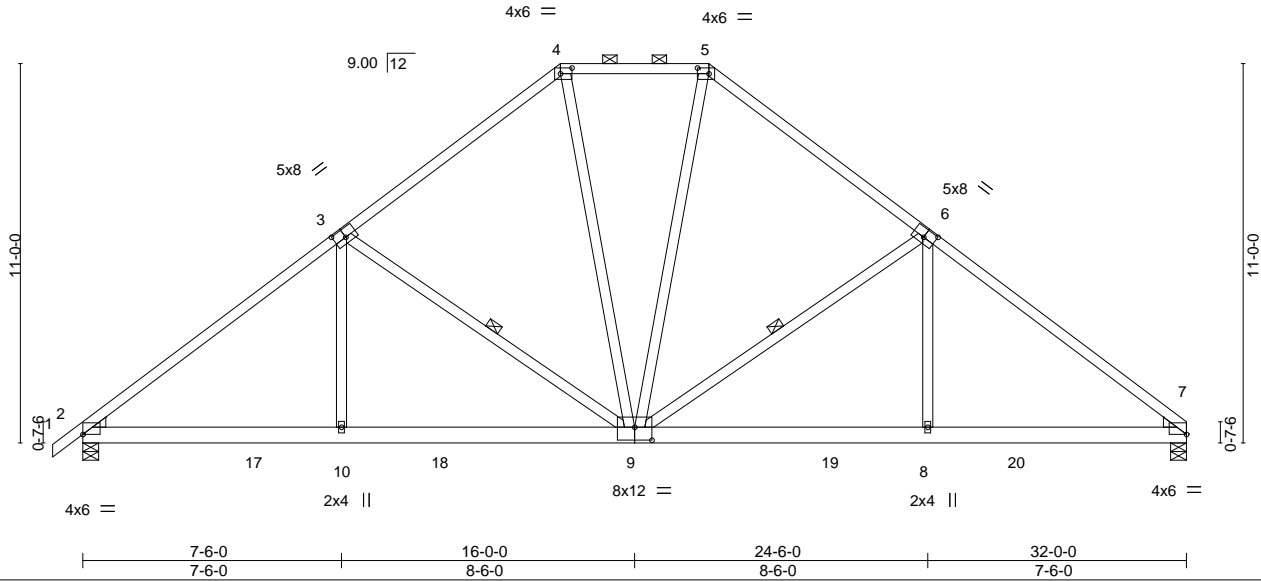


Plate Offsets (X, Y)--	[3:0-4-0,0-3-0], [4:0-4-0,0-2-0], [5:0-4-0,0-2-0], [6:0-4-0,0-3-0], [9:0-6-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.63	Vert(LL)	-0.06	9-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.36	Vert(CT)	-0.13	9-10	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.55	Horz(CT)	0.04	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.08	10-13	>999		
								Weight: 213 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 (4-10-7 max.): 4-5.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
WEDGE	WEBS 1 Row at midpt 3-9, 6-9
Left: 2x4 SP No.3, Right: 2x4 SP No.3	

REACTIONS. (lb/size) 2=1333/0-5-8, 7=1279/0-5-8
 Max Horz 2=482(LC 11)
 Max Uplift 2=-562(LC 12), 7=-519(LC 13)
 Max Grav 2=1357(LC 19), 7=1303(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1925/951, 3-4=-1445/863, 4-5=-1340/854, 5-6=-1445/863, 6-7=-1923/954
 BOT CHORD 2-10=-643/1614, 9-10=-643/1612, 8-9=-556/1353, 7-8=-556/1355
 WEBS 3-10=0/349, 3-9=-842/575, 4-9=-248/570, 5-9=-248/570, 6-8=0/350, 6-9=-840/580

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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, with BCDL = 10.0psf.
 - 6) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=562, 7=519.
 - 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.



February 13, 2020

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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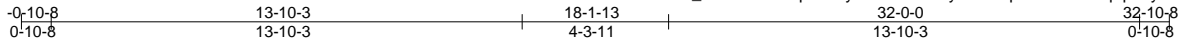
818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss A07	Truss Type Piggyback Base Supported Gable	Qty 6	Ply 1	H&H/Southport/ Job Reference (optional)	140248631
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8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:06:59 2020 Page 1

ID:oMYUFR_W5RnHOV88pNA3fyzorLo-kC53kysbehWpa8S82WvvqTpt4fyaTJ1mdrml1RzldQA



Scale = 1:67.7

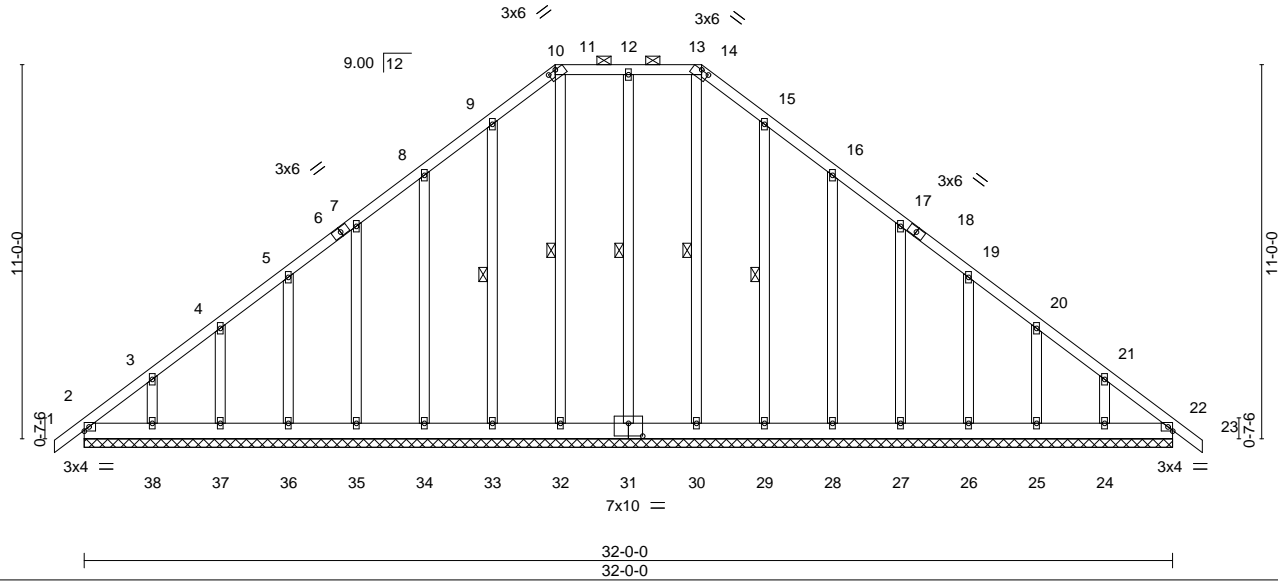


Plate Offsets (X,Y)--	[10:0-3-0,0-0-1], [11:0-1-6,0-1-1], [13:0-1-6,0-1-1], [14:0-3-0,0-0-1], [31:0-5-0,0-4-8]
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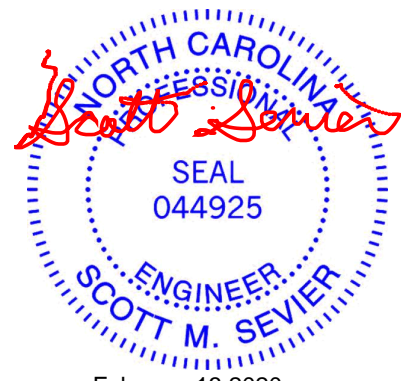
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	-0.00	22	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.00	22	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.24	Horz(CT)	0.01	22	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 274 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
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (6-0-0 max.): 10-14.
OTHERS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
	WEBS 1 Row at midpt 13-30, 12-31, 11-32, 9-33, 15-29

REACTIONS. All bearings 32-0-0.
 (lb) - Max Horz 2=492(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 32, 22 except 2=-162(LC 8), 31=-103(LC 8), 33=-157(LC 12), 34=-176(LC 12), 35=-167(LC 12), 36=-170(LC 12), 37=-167(LC 12), 38=-220(LC 12), 29=-152(LC 13), 28=-178(LC 13), 27=-167(LC 13), 26=-170(LC 13), 25=-166(LC 13), 24=-213(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 30, 31, 32, 33, 34, 35, 36, 37, 38, 29, 28, 27, 26, 25, 24, 22 except 2=253(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-525/383, 3-4=-362/315, 4-5=-267/268, 7-8=-187/269, 8-9=-278/347, 9-10=-372/435, 10-11=-328/393, 11-12=-328/393, 12-13=-328/393, 13-14=-328/393, 14-15=-372/435, 15-16=-278/326, 20-21=-272/182, 21-22=-431/296
 BOT CHORD 2-38=-271/410, 37-38=-271/410, 36-37=-271/410, 35-36=-271/410, 34-35=-271/410, 33-34=-271/410, 32-33=-271/410, 31-32=-271/410, 30-31=-271/410, 29-30=-271/410, 28-29=-271/410, 27-28=-271/410, 26-27=-271/410, 25-26=-271/410, 24-25=-271/410, 22-24=-271/410

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 22 except (jt=lb) 2=162, 31=103, 33=157, 34=176, 35=167, 36=170, 37=167, 38=220, 29=152, 28=178, 27=167, 26=170, 25=166, 24=213.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job 2227286	Truss A08	Truss Type Hip Girder	Qty 3	Ply 2	H&H/Southport/ Job Reference (optional)	140248632
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:03 2020 Page 2
ID:oMYUFR_W5RnH0V88pNA3fyzorLo-dzLaaJv6iv0E3ImvHM?r_J_WOGDoP7BMYTkyACzldQ6

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-60, 3-8=-60, 8-10=-60, 14-17=-20

Concentrated Loads (lb)

Vert: 3=-21(F) 8=-21(F) 13=-21(F) 11=-21(F) 20=-21(F) 21=-21(F) 22=-21(F) 23=-21(F) 24=-21(F) 25=-21(F) 26=-21(F) 27=-21(F) 28=-21(F) 29=-21(F) 30=-115(F)
31=-21(F) 32=-21(F) 33=-21(F) 34=-21(F) 35=-21(F) 36=-21(F) 37=-21(F) 38=-21(F) 39=-21(F) 40=-21(F) 41=-115(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 2227286	Truss A09	Truss Type Hip	Qty 3	Ply 1	H&H/Southport/ Job Reference (optional)	140248633
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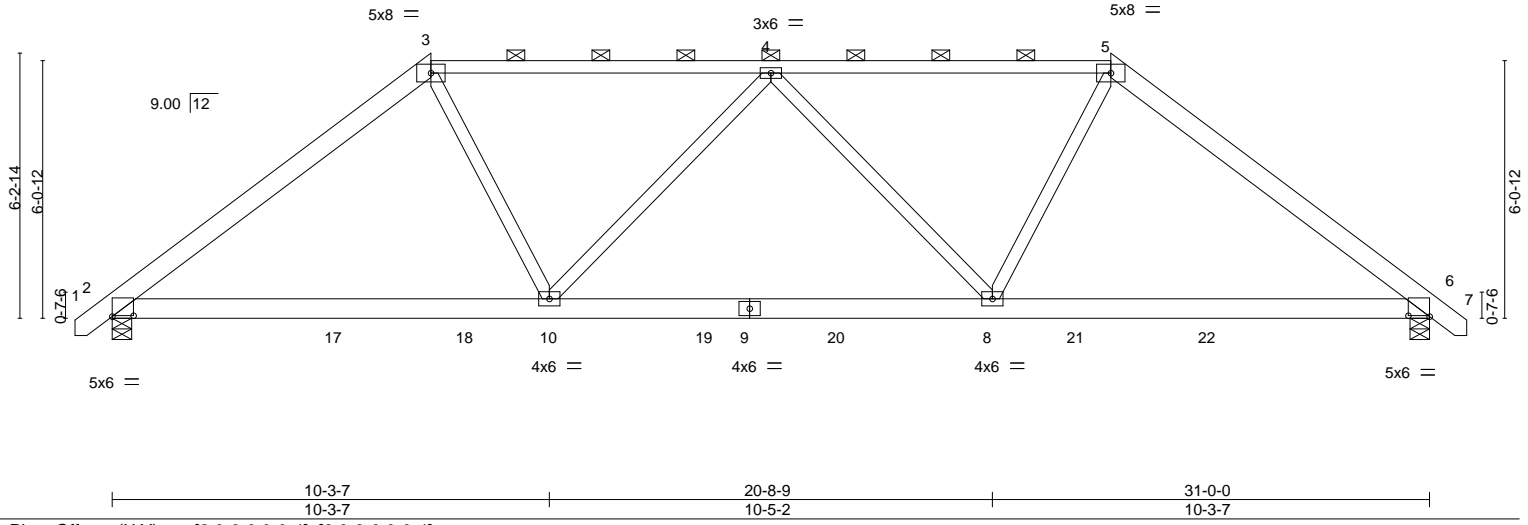
Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:05 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-ZMSK??wMDXGyl3wlOm1J3k3lj4tFtze?nD3F4zldQ4

-0-10-8	7-6-0	15-6-0	23-6-0	31-0-0	31-10-8
0-10-8	7-6-0	8-0-0	8-0-0	7-6-0	0-10-8

Scale = 1:54.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.82	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.55	Vert(LL) -0.08 10-13 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.47	Vert(CT) -0.17 10-13 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.04 6 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.12 10-13 >999 240	Weight: 186 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 3-5: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-8-13 max.): 3-5.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 2=1284/0-5-8, 6=1284/0-5-8
 Max Horz 2=-273(LC 10)
 Max Uplift 2=-457(LC 12), 6=-457(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1660/963, 3-4=-1535/997, 4-5=-1535/997, 5-6=-1660/963
 BOT CHORD 2-10=-638/1267, 8-10=-838/1735, 6-8=-529/1267
 WEBS 3-10=-194/631, 4-10=-408/446, 4-8=-408/446, 5-8=-193/631

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=457, 6=457.
 - 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.



February 13, 2020

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss A10	Truss Type Hip	Qty 3	Ply 1	H&H/Southport/ 140248634
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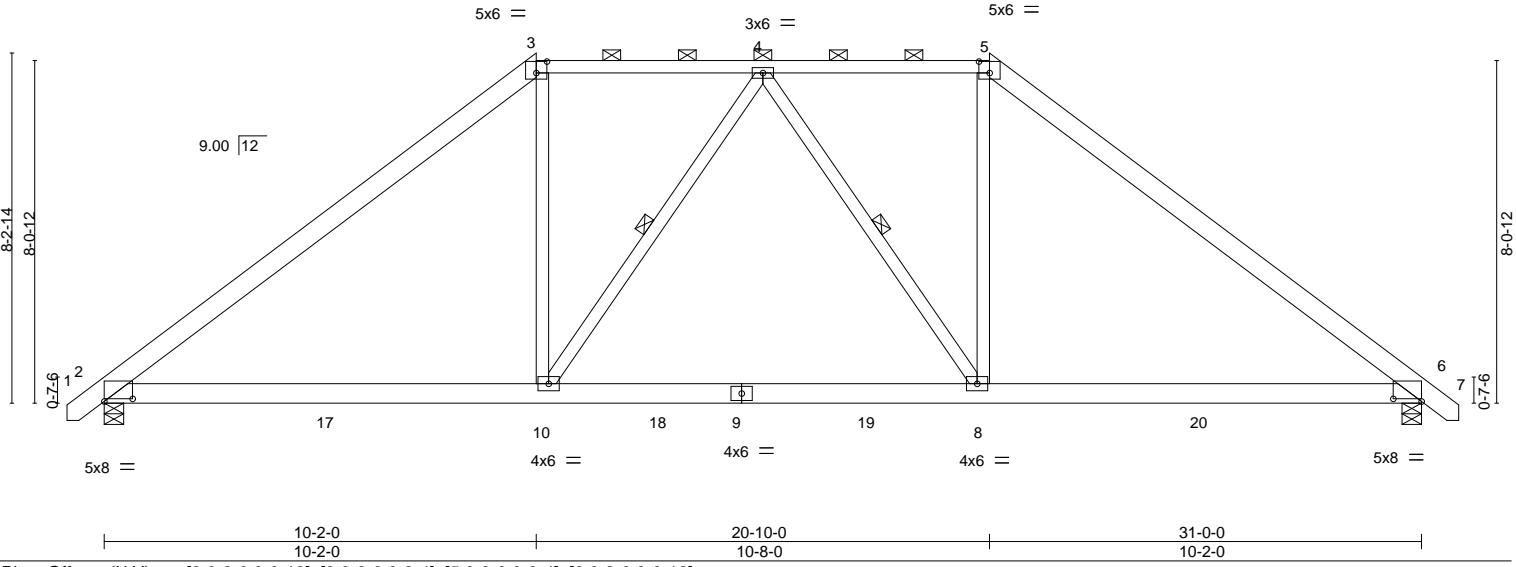
Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:06 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-1Y0jCLx__qOpwDUUyUYycxcxATCrcJhoERycnXzldQ3

-0-10-8 0-10-8	10-2-0 10-2-0	15-6-0 5-4-0	20-10-0 5-4-0	31-0-0 10-2-0	31-10-8 0-10-8
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Scale = 1:54.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.72	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.59	Vert(LL) 0.22 10-13 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.25	Vert(CT) -0.21 10-13 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.03 6 n/a n/a		
	Code IRC2015/TPI2014			Weight: 202 lb	FT = 20%

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

REACTIONS. (lb/size) 2=1284/0-5-8, 6=1284/0-5-8
 Max Horz 2=-362(LC 10)
 Max Uplift 2=-501(LC 12), 6=-501(LC 13)
 Max Grav 2=1348(LC 2), 6=1348(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1715/866, 3-4=-1361/897, 4-5=-1361/897, 5-6=-1715/866
 BOT CHORD 2-10=-468/1288, 8-10=-479/1372, 6-8=-368/1288
 WEBS 3-10=-143/597, 4-10=-279/375, 4-8=-279/375, 5-8=-143/597

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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, with BCDL = 10.0psf.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=501, 6=501.
- 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.



February 13, 2020

Job 2227286	Truss A11	Truss Type Hip	Qty 3	Ply 1	H&H/Southport/ Job Reference (optional)	140248635
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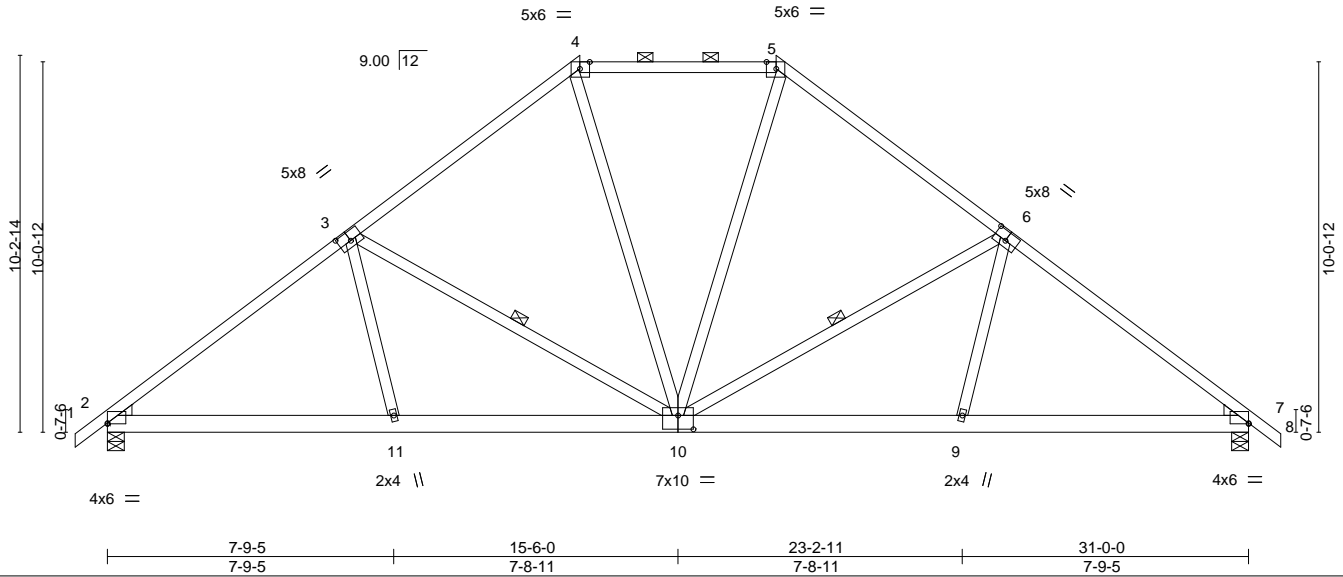
Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:07 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-Vka5Qhydl8WgXN3hWB3n8989YtdPLu8xS5iAJzzldQ2

0-10-8	6-7-5	12-10-0	18-2-0	24-4-11	31-0-0	31-10-8
0-10-8	6-7-5	6-2-11	5-4-0	6-2-11	6-7-5	0-10-8

Scale = 1:62.6



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 0.55	Vert(LL)	-0.05	10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.32	Vert(CT)	-0.11	9-10	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.43	Horz(CT)	0.04	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.07	11-14	>999	Weight: 206 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 (4-11-3 max.): 4-5.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
WEDGE	WEBS 1 Row at midpt 3-10, 6-10
Left: 2x4 SP No.3, Right: 2x4 SP No.3	

REACTIONS. (lb/size) 2=1292/0-5-8, 7=1293/0-5-8
 Max Horz 2=-453(LC 10)
 Max Uplift 2=-540(LC 12), 7=-540(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1840/938, 3-4=-1370/832, 4-5=-1310/837, 5-6=-1370/832, 6-7=-1840/938
 BOT CHORD 2-11=-619/1363, 10-11=-602/1406, 9-10=-518/1391, 7-9=-537/1345
 WEBS 3-11=0/322, 3-10=-805/506, 4-10=-196/489, 5-10=-196/489, 6-9=0/322, 6-10=-805/507

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=540, 7=540.
 - 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.



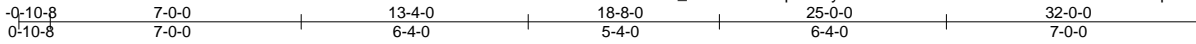
February 13, 2020

Job 2227286	Truss A12	Truss Type Hip	Qty 3	Ply 1	H&H/Southport/ Job Reference (optional)	140248636
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:09 2020 Page 1

ID: oMYUFR_W5RnH0V88pNA3fyzorLo-R7irrMztHlnOnhD3dc6FEZEUUhGWpoQEwPBHOrzldQ0



Scale: 3/16"=1'

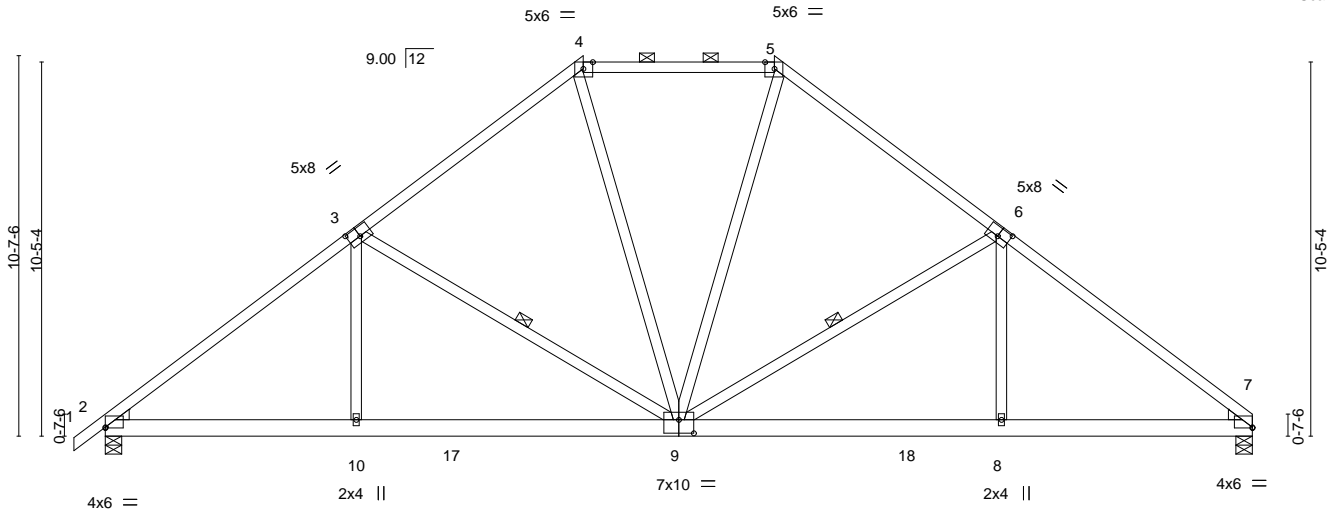


Plate Offsets (X,Y)--	[2:0-0-0,0-0-4], [3:0-4-0,0-3-0], [4:0-3-3,Edge], [5:0-3-3,Edge], [6:0-4-0,0-3-0], [7:Edge,0-0-4], [9:0-5-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.58	Vert(LL)	-0.06	9-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.40	Vert(CT)	-0.13	9-10	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.44	Horz(CT)	0.04	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.07	10-13	>999		
								Weight: 211 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 (4-10-6 max.): 4-5.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
WEDGE	WEBS 1 Row at midpt 3-9, 6-9
Left: 2x4 SP No.3, Right: 2x4 SP No.3	

REACTIONS. (lb/size) 2=1333/0-5-8, 7=1279/0-5-8
 Max Horz 2=460(LC 9)
 Max Uplift 2=-558(LC 12), 7=-515(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1922/959, 3-4=-1424/860, 4-5=-1356/861, 5-6=-1424/860, 6-7=-1920/963
 BOT CHORD 2-10=-644/1509, 9-10=-644/1508, 8-9=-579/1362, 7-8=-578/1363
 WEBS 3-10=0/317, 3-9=-798/544, 4-9=-209/524, 5-9=-209/523, 6-8=0/318, 6-9=-796/549

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=558, 7=515.
 - 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.



February 13, 2020

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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818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss A13	Truss Type Hip	Qty 3	Ply 1	H&H/Southport/ 140248637
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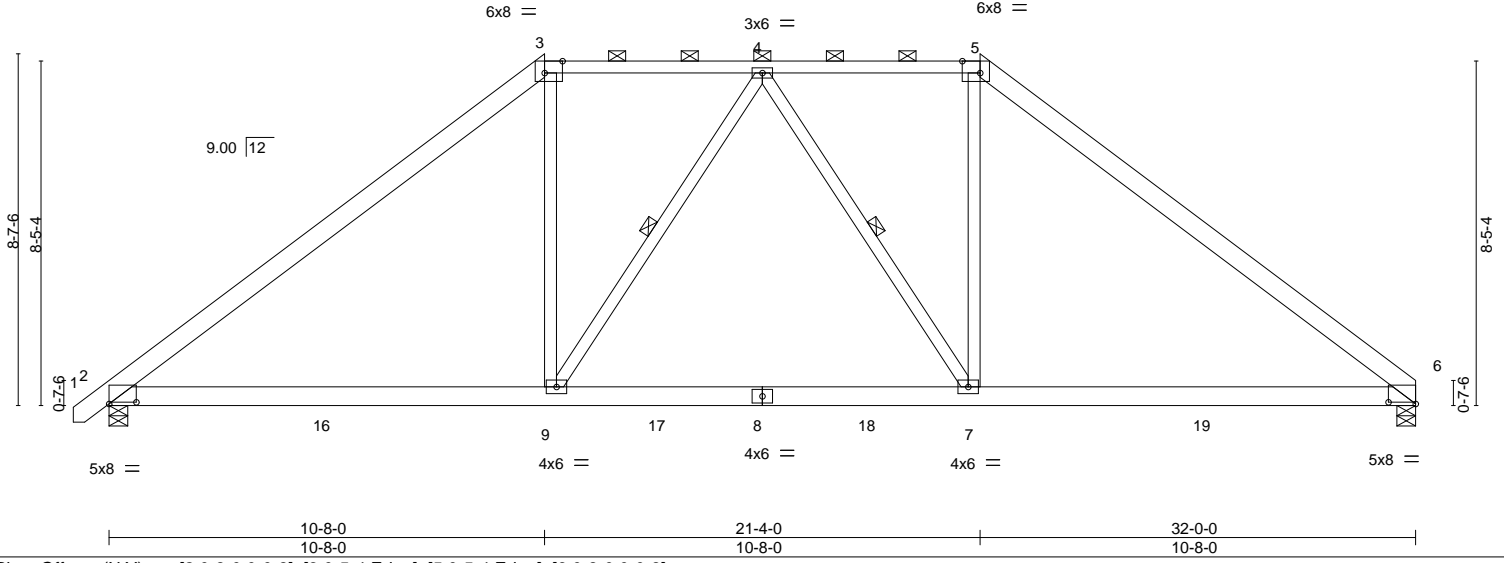
Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:10 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-wJGD2i_V23vFOgoGBKdUmmncp5YtYIO92wqwizldQ?



Scale = 1:56.4



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 0.80	Vert(LL)	0.27	7-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.65	Vert(CT)	-0.26	7-12	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.25	Horz(CT)	0.04	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS						
								Weight: 207 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
3-5: 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 (4-1-8 max.): 3-5.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-9, 4-7

REACTIONS. (lb/size) 6=1279/0-5-8, 2=1325/0-5-8
Max Horz 2=370(LC 9)
Max Uplift 6=-483(LC 13), 2=-518(LC 12)
Max Grav 6=1364(LC 2), 2=1402(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1775/891, 3-4=-1407/928, 4-5=-1406/929, 5-6=-1776/892
BOT CHORD 2-9=-484/1332, 7-9=-487/1410, 6-7=-406/1333
WEBS 3-9=-149/614, 4-9=-279/382, 4-7=-278/381, 5-7=-149/614

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=483, 2=518.
 - 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.



February 13, 2020

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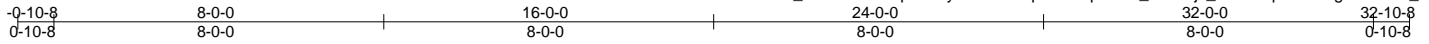
818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss A14	Truss Type Hip	Qty 3	Ply 1	H&H/Southport/ Job Reference (optional)	140248638
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:11 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fzorLo-OWpcG2?7pN160_NSI18jJ_JnEUuqHkXXNigNSkzldQ_



Scale = 1:55.9

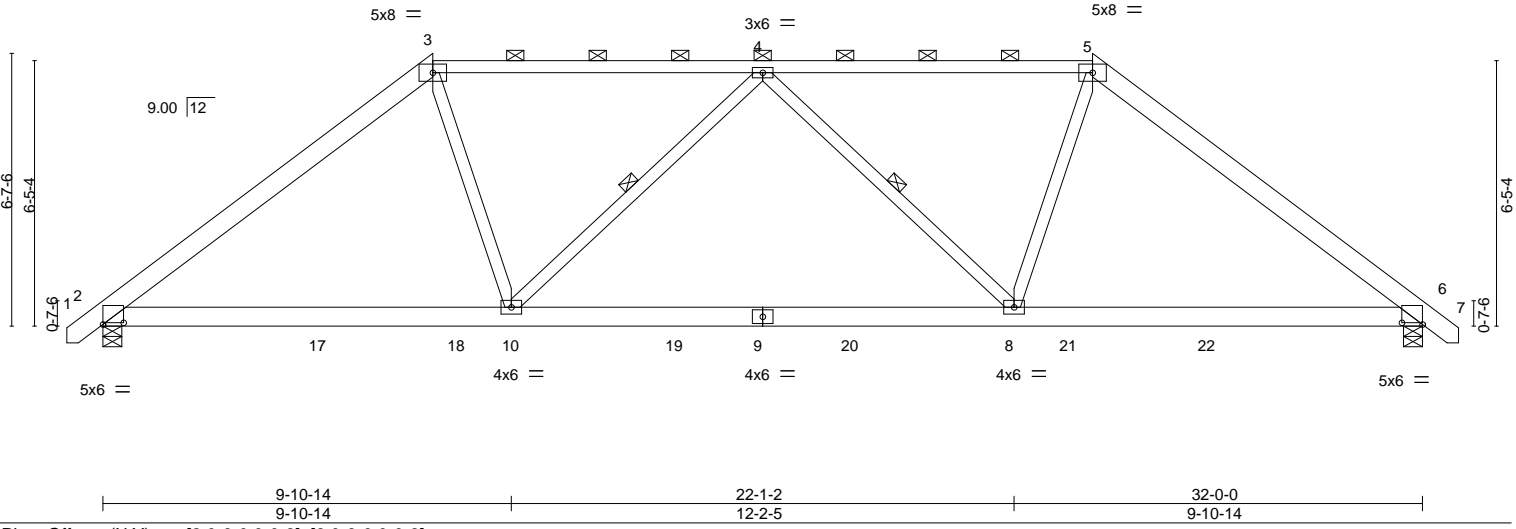


Plate Offsets (X,Y)--	[2:0-6-0,0-0-8], [6:0-6-0,0-0-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.82	Vert(LL) -0.13 8-10 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.67	Vert(CT) -0.27 8-10 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.27	Horz(CT) 0.05 6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.13 10-13 >999 240	Weight: 194 lb	FT = 20%

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

REACTIONS. (lb/size)	2=1324/0-5-8, 6=1324/0-5-8
	Max Horz 2=-289(LC 10)
	Max Uplift 2=-475(LC 12), 6=-475(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1753/975, 3-4=-1536/989, 4-5=-1536/989, 5-6=-1753/975
BOT CHORD 2-10=-636/1346, 8-10=-828/1748, 6-8=-525/1346
WEBS 3-10=-173/655, 4-10=-431/474, 4-8=-431/474, 5-8=-173/655

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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, with BCDL = 10.0psf.
 - 6) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=475, 6=475.
 - 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.



February 13, 2020

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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818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss A15	Truss Type Hip Girder	Qty 3	Ply 2	H&H/Southport/ 140248639
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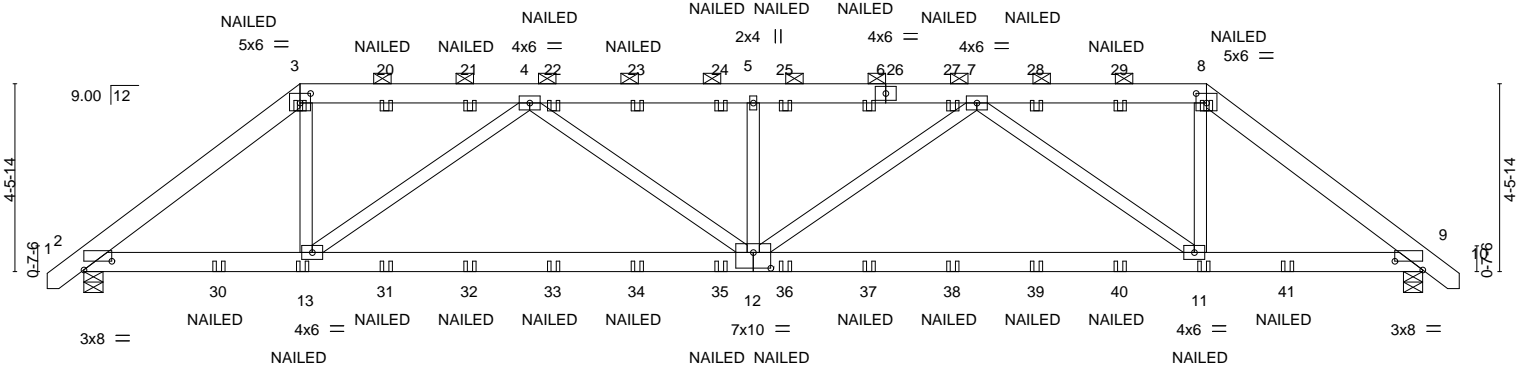
Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:14 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-o5Vku4106iPhtS61Q9hQxdxOEizwU5cz3gu223zldPx

0-10-8	5-2-0	10-7-14	16-0-0	21-4-2	26-10-0	32-0-0	32-10-8
0-10-8	5-2-0	5-5-14	5-4-2	5-4-2	5-5-14	5-2-0	0-10-8

Scale = 1:55.1



5-2-0	16-0-0	26-10-0	32-0-0
5-2-0	10-10-0	10-10-0	5-2-0

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

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 0.39	Vert(LL)	0.21	11-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.45	Vert(CT)	-0.16	11-12	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.25	Horz(CT)	-0.07	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 430 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (6-0-0 max.); 3-8.
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-3-6 oc bracing.

REACTIONS. (lb/size) 2=1814/0-5-8, 9=1814/0-5-8
 Max Horiz 2=-199(LC 6)
 Max Uplift 2=-1829(LC 8), 9=-1829(LC 9)
 Max Grav 2=1843(LC 33), 9=1843(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2687/2793, 3-4=-2105/2329, 4-5=-3828/4222, 5-7=-3828/4222, 7-8=-2105/2329, 8-9=-2687/2794
 BOT CHORD 2-13=-2294/2227, 12-13=-3769/3446, 11-12=-3700/3412, 9-11=-2136/2148
 WEBS 3-13=-1250/1278, 4-13=-1525/1904, 4-12=-664/734, 5-12=-423/669, 7-12=-665/735, 7-11=-1525/1903, 8-11=-1250/1278

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 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=150mph (3-second gust) Vasd=119mph; 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.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1829, 9=1829.
- 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



February 13, 2020

Continued on page 2

<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>ENGINEERING BY TRENCO <small>A MiTek Affiliate</small></p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 2227286	Truss A15	Truss Type Hip Girder	Qty 3	Ply 2	H&H/Southport/ Job Reference (optional)	I40248639
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:15 2020 Page 2
ID:oMYUFR_W5RnHOV88pNA3fyzorLo-GH365Q2etbXXVchD_tDfTqUY_6J9DYs7IKebaVzldPw

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-60, 3-8=-60, 8-10=-60, 14-17=-20

Concentrated Loads (lb)

Vert: 3=-32(B) 8=-32(B) 13=-26(B) 11=-26(B) 20=-32(B) 21=-32(B) 22=-32(B) 23=-32(B) 24=-32(B) 25=-32(B) 26=-32(B) 27=-32(B) 28=-32(B) 29=-32(B) 30=-144(B) 31=-26(B) 32=-26(B) 33=-26(B) 34=-26(B) 35=-26(B) 36=-26(B) 37=-26(B) 38=-26(B) 39=-26(B) 40=-26(B) 41=-144(B)

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.



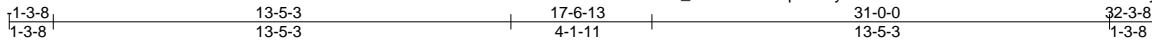
818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss A17	Truss Type Piggyback Base Supported Gable	Qty 3	Ply 1	H&H/Southport/ Job Reference (optional)	140248640
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:16 2020 Page 1

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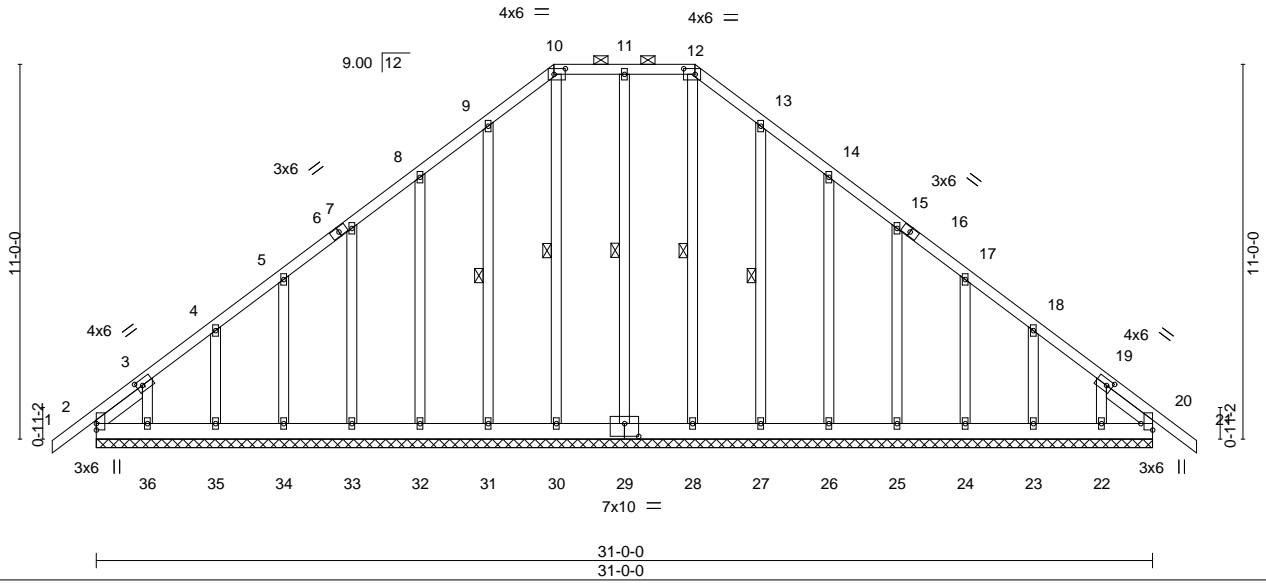


Plate Offsets (X, Y)--	[3:0-2-1,0-2-0], [10:0-4-0,0-2-0], [12:0-4-0,0-2-0], [19:0-2-1,0-2-0], [20:Edge,0-4-3], [29:0-5-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	-0.00	21	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.01	21	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.23	Horz(CT)	0.01	20	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 276 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
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (6-0-0 max.): 10-12.
OTHERS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER Left 2x4 SP No.3 1-9-1, Right 2x4 SP No.3 1-9-1	WEBS 1 Row at midpt 12-28, 11-29, 10-30, 9-31, 13-27

REACTIONS. All bearings 31-0-0.
 (lb) - Max Horz 2=491(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 30 except 2=-229(LC 8), 29=-106(LC 9), 31=-168(LC 12), 32=-173(LC 12), 33=-168(LC 12), 34=-168(LC 12), 35=-173(LC 12), 36=-281(LC 12), 27=-165(LC 13), 26=-175(LC 13), 25=-168(LC 13), 24=-168(LC 13), 23=-172(LC 13), 22=-256(LC 13), 20=-112(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 28, 29, 30, 31, 32, 33, 34, 35, 36, 27, 26, 25, 24, 23, 22, 20 except 2=328(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-588/428, 3-4=-374/323, 4-5=-269/274, 7-8=-187/265, 8-9=-270/343, 9-10=-371/435, 10-11=-326/392, 11-12=-326/392, 12-13=-371/435, 13-14=-270/317, 18-19=-280/184, 19-20=-478/346
 BOT CHORD 2-36=-272/410, 35-36=-272/410, 34-35=-272/410, 33-34=-272/410, 32-33=-272/410, 31-32=-272/410, 30-31=-272/410, 29-30=-272/409, 28-29=-272/409, 27-28=-272/410, 26-27=-272/410, 25-26=-272/410, 24-25=-272/410, 23-24=-272/410, 22-23=-272/410, 20-22=-272/410
 WEBS 3-36=-283/300, 19-22=-286/276

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 30 except (jt=lb) 2=229, 29=106, 31=168, 32=173, 33=168, 34=168, 35=173, 36=281, 27=165, 26=175, 25=168, 24=168, 23=172, 22=256, 20=112.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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.

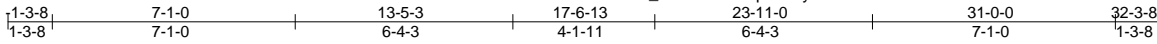
TRENCO ENGINEERING BY
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss A18	Truss Type Piggyback Base	Qty 15	Ply 1	H&H/Southport/ Job Reference (optional)	140248641
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:18 2020 Page 1

ID: oMYUFR_W5RnHOV88pNA3fyzorLo-hslFkR4WAWv6M3Pof?mM5T61eJMwQqPZ_lsFBqzldPt



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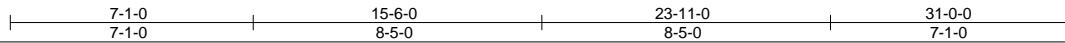
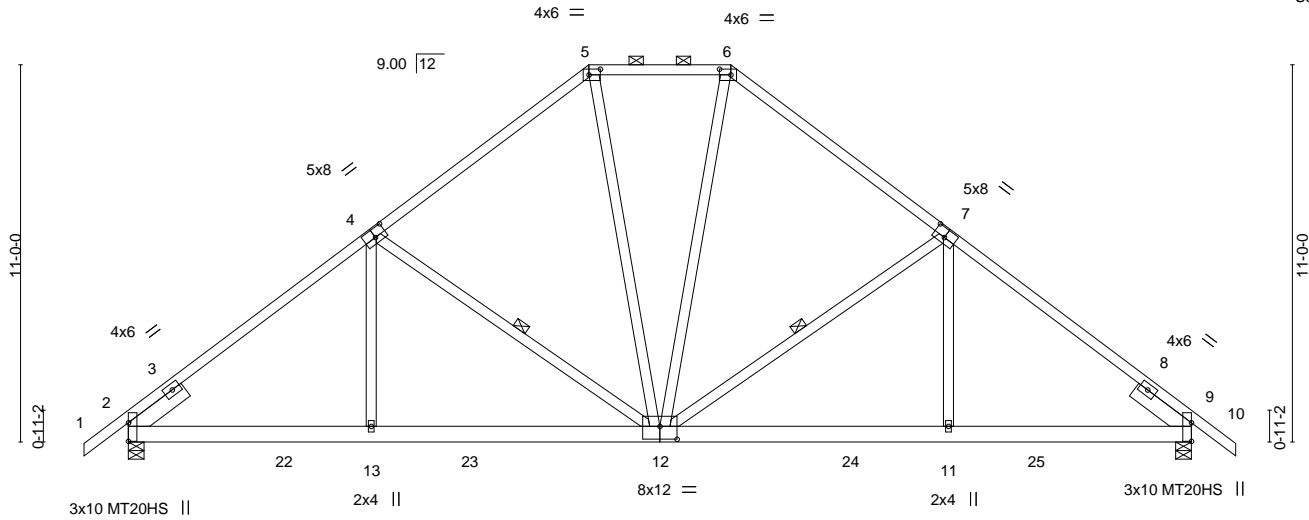


Plate Offsets (X, Y)--	[4:0-4-0,0-3-0], [5:0-4-0,0-2-0], [6:0-4-0,0-2-0], [7:0-4-0,0-3-0], [9:0-0-0,0-0-0], [12:0-6-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.56	Vert(LL)	-0.06	11-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.38	Vert(CT)	-0.13	11-12	>999	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.52	Horz(CT)	0.04	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.06	11-12	>999		
								Weight: 220 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 (4-11-1 max.): 5-6.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12	WEBS 1 Row at midpt 4-12, 7-12

REACTIONS. (lb/size) 2=1318/0-5-8, 9=1318/0-5-8
 Max Horz 2=-492(LC 10)
 Max Uplift 2=-562(LC 12), 9=-562(LC 13)
 Max Grav 2=1345(LC 19), 9=1345(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1712/887, 4-5=-1377/823, 5-6=-1279/820, 6-7=-1377/823, 7-9=-1712/887
 BOT CHORD 2-13=-577/1510, 12-13=-577/1509, 11-12=-451/1279, 9-11=-451/1280
 WEBS 4-13=0/304, 4-12=-741/534, 5-12=-234/521, 6-12=-234/521, 7-11=0/304, 7-12=-741/535

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=562, 9=562.
 - 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.



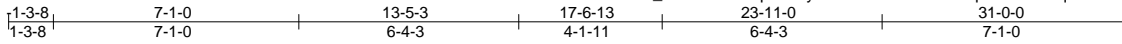
February 13, 2020

Job 2227286	Truss A19	Truss Type Piggyback Base	Qty 39	Ply 1	H&H/Southport/ Job Reference (optional)	140248642
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:20 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fzorLo-dFs?976mh89qbNZBmQoqAuBNx716ukrsScLMGjzdPr



Scale = 1:66.5

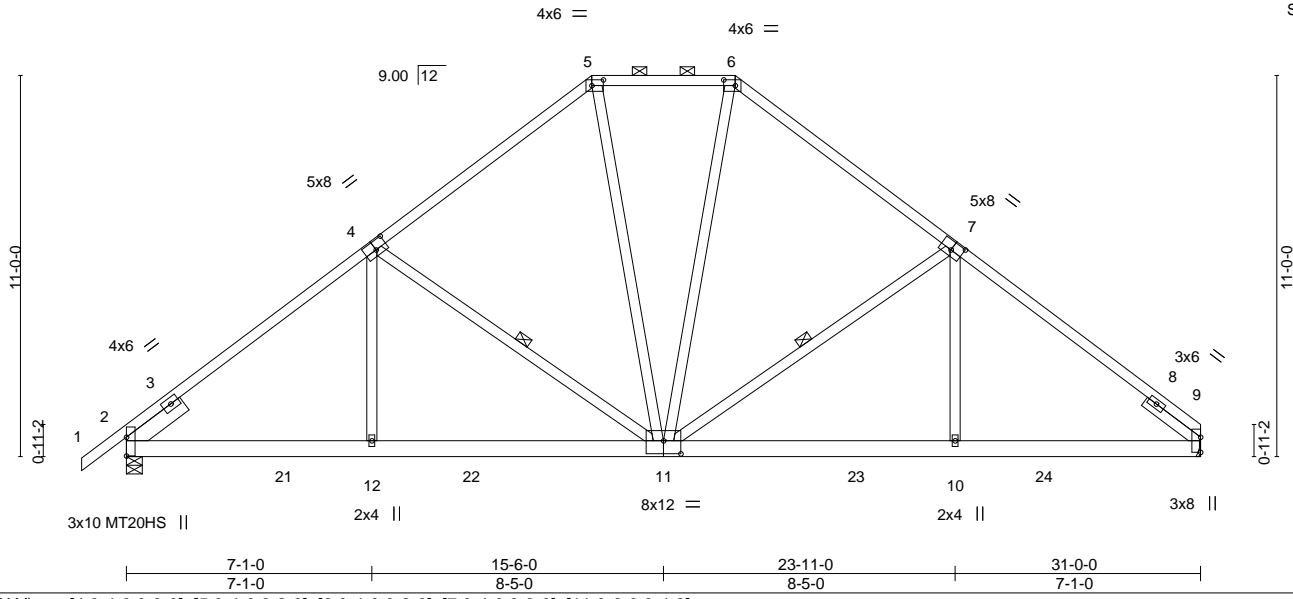


Plate Offsets (X, Y)--	[4:0-4-0,0-3-0], [5:0-4-0,0-2-0], [6:0-4-0,0-3-0], [7:0-4-0,0-3-0], [11:0-6-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.57	Vert(LL)	-0.06	11-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.40	Vert(CT)	-0.13	11-12	>999	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.52	Horz(CT)	0.04	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.06	10-11	>999		
								Weight: 215 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 (4-11-1 max.): 5-6.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
SLIDER Left 2x6 SP No.2 1-11-12, Right 2x4 SP No.3 1-11-12	WEBS 1 Row at midpt 4-11, 7-11

REACTIONS. (lb/size) 2=1319/0-5-8, 9=1238/Mechanical
 Max Horz 2=478(LC 9)
 Max Uplift 2=-563(LC 12), 9=-500(LC 13)
 Max Grav 2=1346(LC 19), 9=1264(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1715/890, 4-5=-1379/827, 5-6=-1281/824, 6-7=-1380/827, 7-9=-1708/891
 BOT CHORD 2-12=-606/1490, 11-12=-606/1488, 10-11=-512/1236, 9-10=-512/1237
 WEBS 4-12=0/304, 4-11=-740/534, 5-11=-234/522, 6-11=-236/524, 7-10=0/306, 7-11=-738/542

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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.
 - 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.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 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 (it=lb) 2=563, 9=500.
 - 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.



February 13, 2020

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss A20	Truss Type Piggyback Base	Qty 24	Ply 1	H&H/Southport/ Job Reference (optional)	140248643
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:21 2020 Page 1

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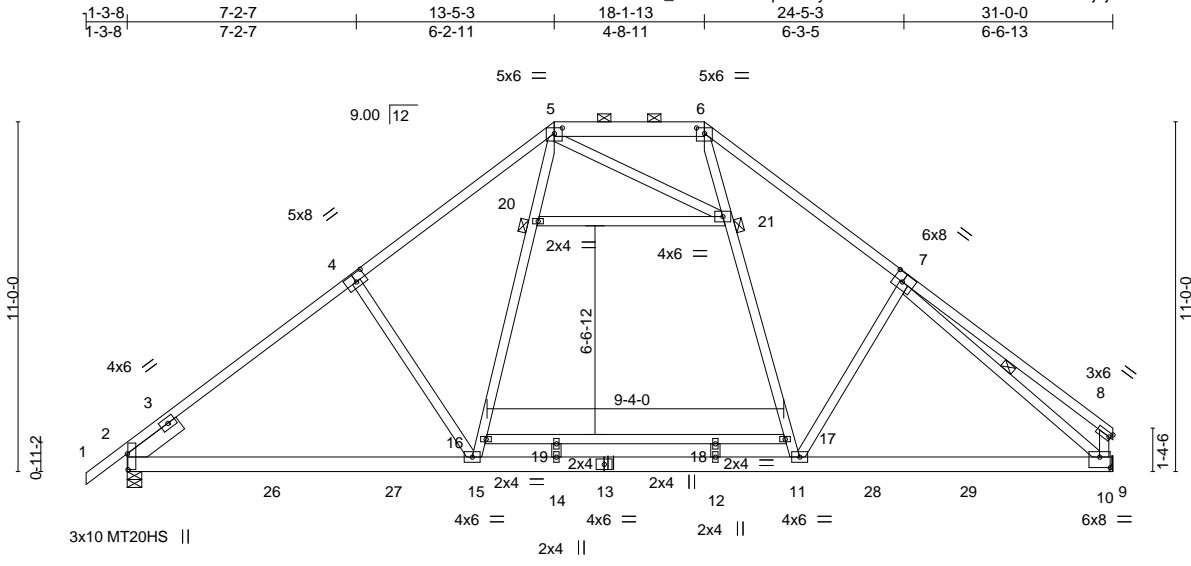


Plate Offsets (X, Y)--	[2:0-6-0,0-0-4], [4:0-4-0,0-3-0], [5:0-3-0,0-2-2], [6:0-3-0,0-2-2], [7:0-3-8,0-3-4], [10:0-4-0,0-4-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.75	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.55	Vert(LL) -0.18 15-24 >999 360	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.97	Vert(CT) -0.25 15-24 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.04 10 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.27 15-24 >999 240	Weight: 237 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 5-6: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 16-17: 2x4 SP No.2	WEBS 1 Row at midpt 7-10
SLIDER Left 2x6 SP No.2 1-11-12	JOINTS 1 Brace at Jt(s): 20, 21

REACTIONS. (lb/size) 2=1404/0-5-8, 10=1337/Mechanical
 Max Horz 2=473(LC 9)
 Max Uplift 2=-463(LC 12), 10=-376(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1789/733, 4-5=-1819/810, 5-6=-1319/715, 6-7=-1794/798, 7-8=-569/408,
 8-10=-536/385
 BOT CHORD 2-15=-498/1457, 14-15=-113/983, 12-14=-113/983, 11-12=-113/983, 10-11=-380/1227
 WEBS 4-15=-573/574, 15-16=-261/817, 16-20=-242/829, 5-20=-227/822, 6-21=-173/745,
 17-21=-212/715, 11-17=-224/699, 7-11=-432/564, 7-10=-1301/314, 5-21=-265/236

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
 - 200.0lb AC unit load placed on the bottom chord, 16-0-0 from left end, supported at two points, 5-0-0 apart.
 - 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.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 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) 2=463, 10=376.
 - 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.



February 13, 2020

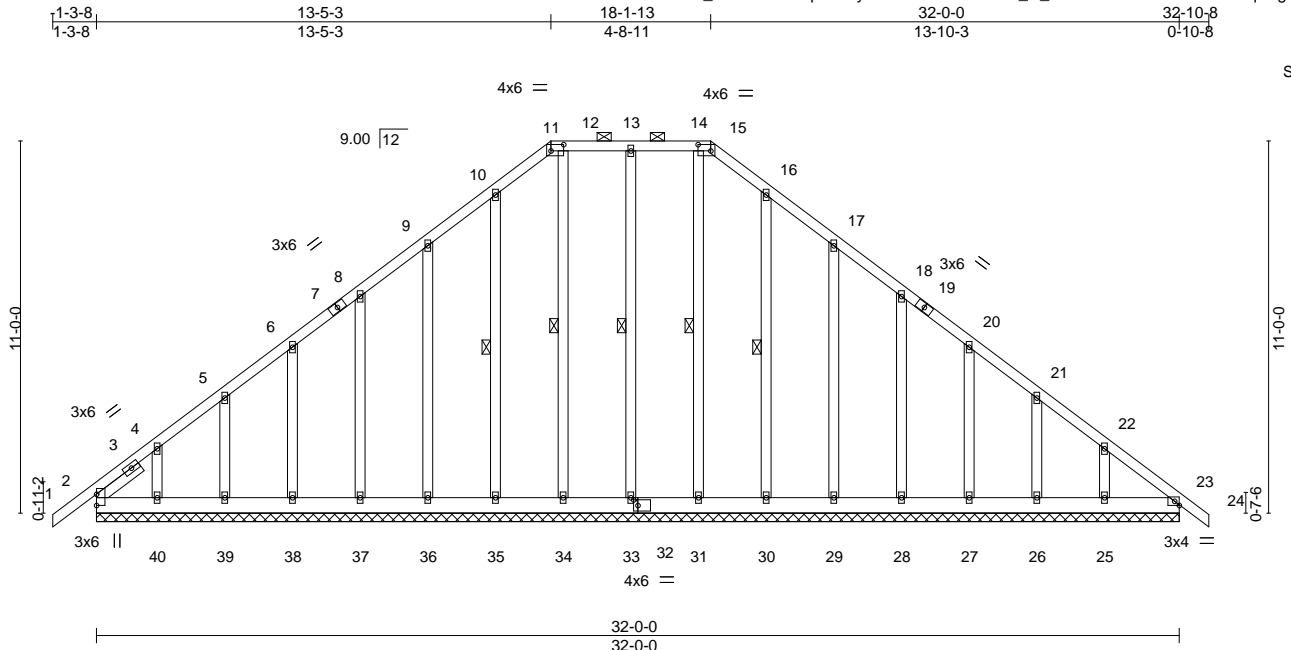
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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>ENGINEERING BY TRENCO <small>A MiTek Affiliate</small></p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 2227286	Truss A23	Truss Type GABLE	Qty 3	Ply 1	H&H/Southport/ Job Reference (optional)	140248646
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:26 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-SODGPABXH_w_JI0K7hvEQ9RV6XaolWSkqYogTMzldP1



Scale = 1:68.1

Plate Offsets (X,Y)--	[11:0-0-0,0-1-12], [11:0-4-8,0-2-4], [12:0-1-12,0-0-0], [14:0-1-12,0-0-0], [15:0-4-8,0-2-4], [15:0-0-0,0-1-12], [32:0-1-8,0-2-0]
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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 0.14	Vert(LL)	-0.00	23	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.00	23	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.26	Horz(CT)	0.01	23	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 280 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
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (6-0-0 max.): 11-15.
OTHERS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER Left 2x4 SP No.3 1-7-5	WEBS 1 Row at midpt 14-31, 13-33, 12-34, 10-35, 16-30

REACTIONS. All bearings 32-0-0.
 (lb) - Max Horz 2=-492(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 31, 34, 23 except 2=-203(LC 8), 33=-116(LC 8), 35=-135(LC 12), 36=-181(LC 12), 37=-166(LC 12), 38=-173(LC 12), 39=-154(LC 12), 40=-303(LC 12), 30=-126(LC 13), 29=-184(LC 13), 28=-166(LC 13), 27=-171(LC 13), 26=-162(LC 13), 25=-225(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 31, 33, 34, 35, 36, 37, 38, 39, 40, 30, 29, 28, 27, 26, 23, 25 except 2=319(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-566/391, 4-5=-363/302, 5-6=-264/258, 8-9=-180/253, 9-10=-275/334, 10-11=-354/407, 11-12=-314/372, 12-13=-314/372, 13-14=-314/372, 14-15=-314/372, 15-16=-354/407, 16-17=-275/314, 21-22=-281/178, 22-23=-446/309
 BOT CHORD 2-40=-284/428, 39-40=-284/428, 38-39=-284/428, 37-38=-284/428, 36-37=-284/428, 35-36=-284/428, 34-35=-284/428, 33-34=-284/428, 31-33=-284/428, 30-31=-284/428, 29-30=-284/428, 28-29=-284/428, 27-28=-284/428, 26-27=-284/428, 25-26=-284/428, 23-25=-284/428
 WEBS 4-40=-285/297, 22-25=-256/239

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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) 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) Provide adequate drainage to prevent water ponding.
 - 5) All plates are 2x4 MT20 unless otherwise indicated.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 31, 34, 23 except (jt=lb) 2=203, 33=116, 35=135, 36=181, 37=166, 38=173, 39=154, 40=303, 30=126, 29=184, 28=166, 27=171, 26=162, 25=225.
 - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 13, 2020

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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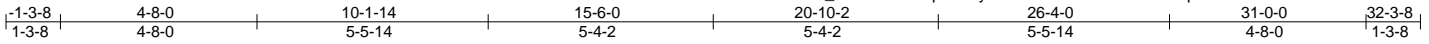
818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss A24	Truss Type Hip Girder	Qty 3	Ply 2	H&H/Southport/ Job Reference (optional)	140248647
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:29 2020 Page 1

ID:oMYUFR_W5RnHOV88pNA3fyzorLo-szvP1CDQavIYAllvopTx2n3zol56VuLBWW1K4hzldPi



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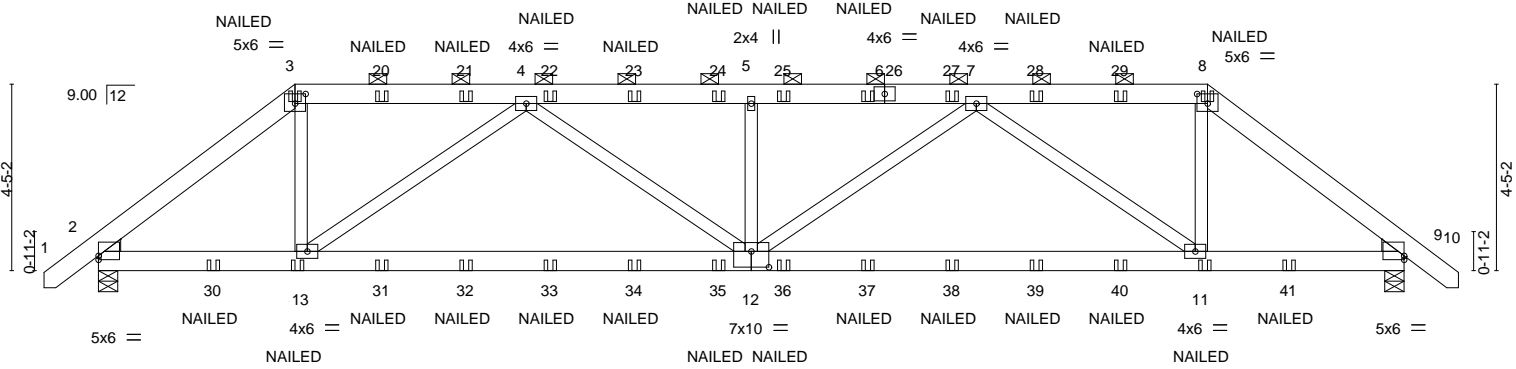


Plate Offsets (X, Y)--	[2:0-0-0,0-1-2], [3:0-3-0,0-2-12], [8:0-3-0,0-2-12], [9:0-0-0,0-1-2], [12:0-5-0,0-4-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.37	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.41	Vert(LL) 0.23 11-12 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.25	Vert(CT) 0.19 11-12 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) -0.06 9 n/a n/a		
	Code IRC2015/TPI2014			Weight: 426 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-8.
BOT CHORD Rigid ceiling directly applied or 8-4-12 oc bracing.

REACTIONS. (lb/size) 2=1509/0-5-8, 9=1509/0-5-8
Max Horz 2=-196(LC 6)
Max Uplift 2=-1809(LC 8), 9=-1809(LC 9)
Max Grav 2=1758(LC 33), 9=1758(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2382/2596, 3-4=-1819/2127, 4-5=-3578/4127, 5-7=-3578/4127, 7-8=-1819/2127, 8-9=-2383/2596
BOT CHORD 2-13=-2083/1947, 12-13=-3545/3180, 11-12=-3484/3150, 9-11=-1941/1878
WEBS 3-13=-1290/1177, 4-13=-1531/1863, 4-12=-803/745, 5-12=-390/527, 7-12=-805/746, 7-11=-1531/1863, 8-11=-1289/1177

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 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=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BC DL=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.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1809, 9=1809.
 - 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



February 13, 2020

Continued on page 2

<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 2227286	Truss A24	Truss Type Hip Girder	Qty 3	Ply 2	H&H/Southport/ Job Reference (optional)	I40248647
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:30 2020 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-8=-60, 8-10=-60, 14-17=-20

Concentrated Loads (lb)

Vert: 3=-7(F) 8=-7(F) 13=-10(F) 11=-10(F) 20=-7(F) 21=-7(F) 22=-7(F) 23=-7(F) 24=-7(F) 25=-7(F) 26=-7(F) 27=-7(F) 28=-7(F) 29=-7(F) 30=-98(F) 31=-10(F)
32=-10(F) 33=-10(F) 34=-10(F) 35=-10(F) 36=-10(F) 37=-10(F) 38=-10(F) 39=-10(F) 40=-10(F) 41=-98(F)

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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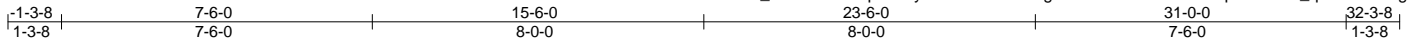


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Southport/	140248648
2227286	A25	Hip	3	1		
Builders FirstSource, Sumter, SC - 29153,						Job Reference (optional)

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:31 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-oM19SuEg6WYQG3vIwEVP7C8ApYk5zmfT_qWR9azldPg



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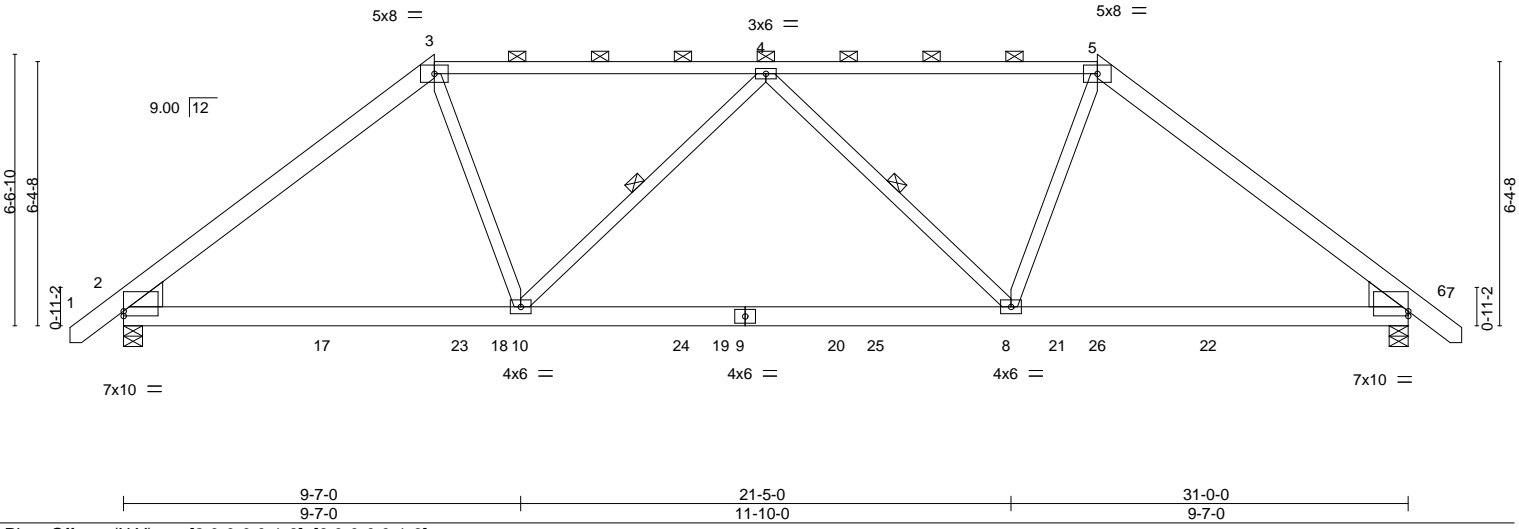


Plate Offsets (X,Y)--	[2:0-0-0,0-1-6], [6:0-0-0,0-1-6]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.85	Vert(LL) -0.14 8-10 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.63	Vert(CT) -0.28 8-10 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.26	Horz(CT) 0.05 6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.11 8-10 >999 240	Weight: 196 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 3-5: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-10-14 max.): 3-5.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-10, 4-8
WEDGE Left: 2x8 SP No.2, Right: 2x8 SP No.2	

REACTIONS. (lb/size) 2=1309/0-5-8, 6=1309/0-5-8
 Max Horz 2=-287(LC 10)
 Max Uplift 2=-475(LC 12), 6=-475(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1664/921, 3-4=-1437/933, 4-5=-1437/933, 5-6=-1664/921
 BOT CHORD 2-10=-603/1239, 8-10=-798/1650, 6-8=-476/1239
 WEBS 3-10=-171/628, 4-10=-425/464, 4-8=-425/464, 5-8=-171/628

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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) 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=475, 6=475.
 - 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.



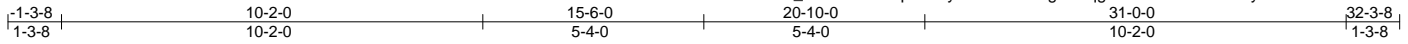
February 13, 2020

Job 2227286	Truss A26	Truss Type Hip	Qty 3	Ply 1	H&H/Southport/ 140248649
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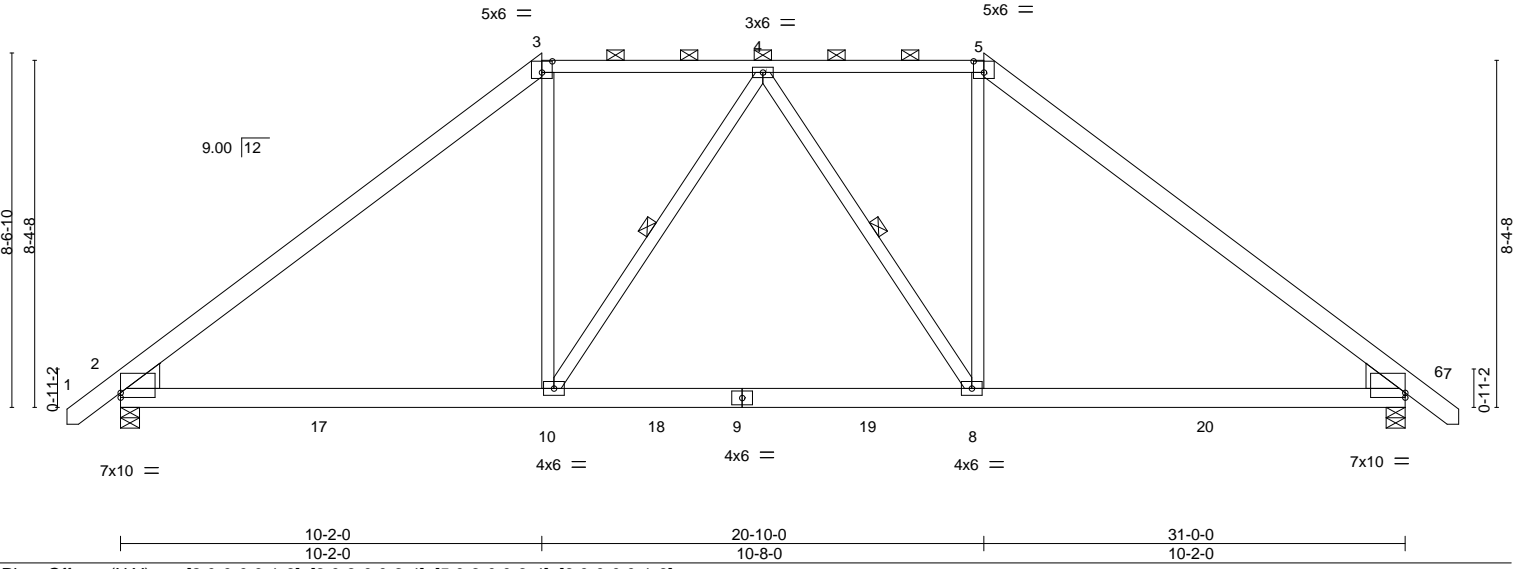
Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:32 2020 Page 1

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Scale = 1:55.6



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 0.70	Vert(LL)	0.16	10-13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.56	Vert(CT)	-0.15	10-13	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.25	Horz(CT)	-0.04	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS						
								Weight: 211 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 3-5: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-5-3 max.): 3-5.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-10, 4-8
WEDGE Left: 2x8 SP No.2, Right: 2x8 SP No.2	

REACTIONS. (lb/size) 2=1309/0-5-8, 6=1309/0-5-8
Max Horz 2=-376(LC 10)
Max Uplift 2=-519(LC 12), 6=-519(LC 13)
Max Grav 2=1384(LC 2), 6=1384(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1709/840, 3-4=-1318/877, 4-5=-1318/877, 5-6=-1709/840
BOT CHORD 2-10=-451/1241, 8-10=-460/1326, 6-8=-331/1241
WEBS 3-10=-145/594, 4-10=-280/376, 4-8=-280/376, 5-8=-145/594

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=519, 6=519.
 - 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.



February 13, 2020

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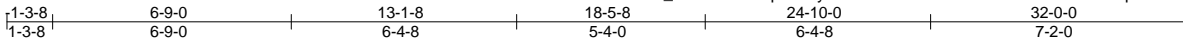
818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss A28	Truss Type Hip	Qty 3	Ply 1	H&H/Southport/ Job Reference (optional)	140248651
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:34 2020 Page 1

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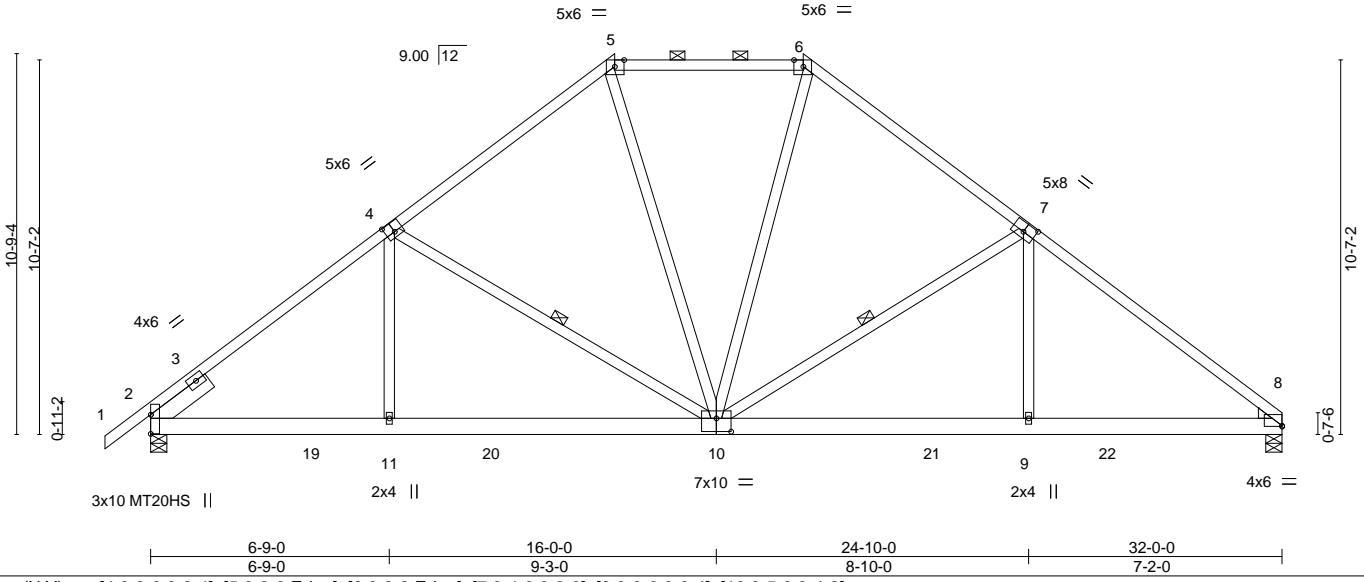


Plate Offsets (X,Y)--	[4:0-3-0,0-3-4], [5:0-3-3,Edge], [6:0-3-3,Edge], [7:0-4-0,0-3-0], [8:0-0-0,0-0-4], [10:0-5-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.60	Vert(LL)	-0.07	10-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.41	Vert(CT)	-0.16	10-11	>999	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.45	Horz(CT)	0.04	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.07	9-18	>999		
								Weight: 217 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Right: 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 1-11-12

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-10-3 max.): 5-6.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 4-10, 7-10

REACTIONS. (lb/size) 2=1359/0-5-8, 8=1278/0-5-8
 Max Horz 2=470(LC 11)
 Max Uplift 2=-573(LC 12), 8=-517(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1771/925, 4-5=-1402/851, 5-6=-1345/857, 6-7=-1426/861, 7-8=-1911/959
 BOT CHORD 2-11=-604/1508, 10-11=-605/1505, 9-10=-570/1348, 8-9=-569/1350
 WEBS 4-11=0/302, 4-10=-712/510, 5-10=-205/500, 6-10=-210/527, 7-9=0/330, 7-10=-801/558

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=573, 8=517.
- 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.



February 13, 2020

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.



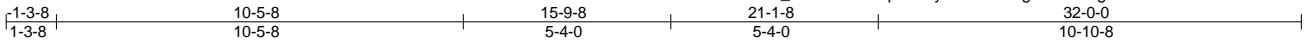
818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss A29	Truss Type Hip	Qty 3	Ply 1	H&H/Southport/ Job Reference (optional)	140248652
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:35 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-h7GgIFIB9I2iugC394aLH2Js0A4Fvbk3vRUfILzIdPc



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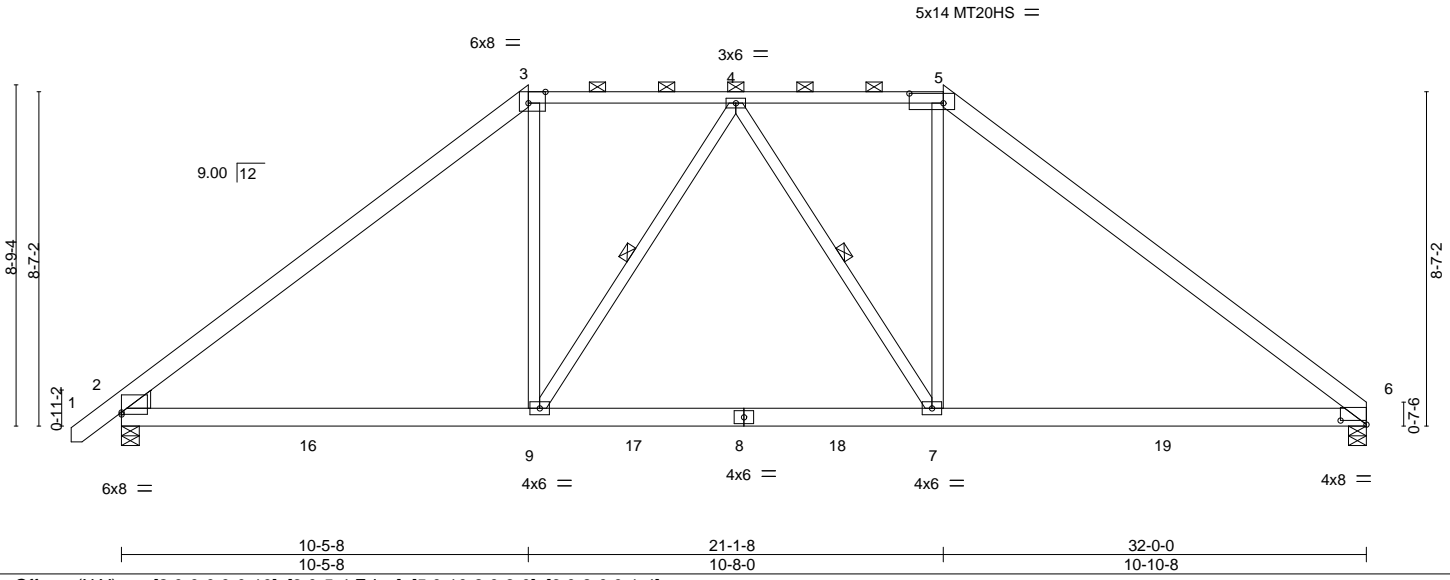


Plate Offsets (X, Y)--	[2:0-0-0,0-0-10], [3:0-5-4,Edge], [5:0-10-8,0-3-0], [6:0-8-0,0-1-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.83	Vert(LL)	0.28	7-12	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.68	Vert(CT)	-0.28	7-12	>999	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.26	Horz(CT)	-0.04	2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS						Weight: 210 lb	FT = 20%

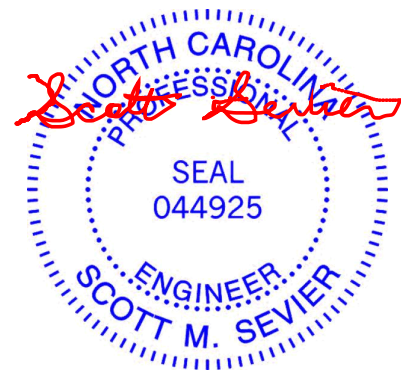
LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
3-5: 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (4-0-14 max.): 3-5.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-9, 4-7

REACTIONS. (lb/size) 6=1279/0-5-8, 2=1350/0-5-8
Max Horz 2=380(LC 11)
Max Uplift 6=-485(LC 13), 2=-533(LC 12)
Max Grav 6=1368(LC 2), 2=1434(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1772/869, 3-4=-1367/907, 4-5=-1404/929, 5-6=-1773/888
BOT CHORD 2-9=-473/1288, 7-9=-478/1386, 6-7=-397/1329
WEBS 3-9=-152/617, 4-9=-308/387, 4-7=-250/378, 5-7=-148/608

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
 - 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.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=485, 2=533.
 - 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.



February 13, 2020

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.

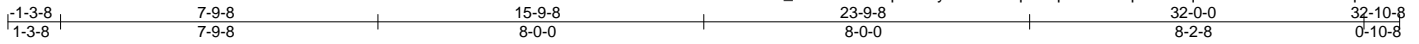
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss A30	Truss Type Hip	Qty 3	Ply 1	H&H/Southport/ 140248653
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:36 2020 Page 1

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Scale = 1:56.6

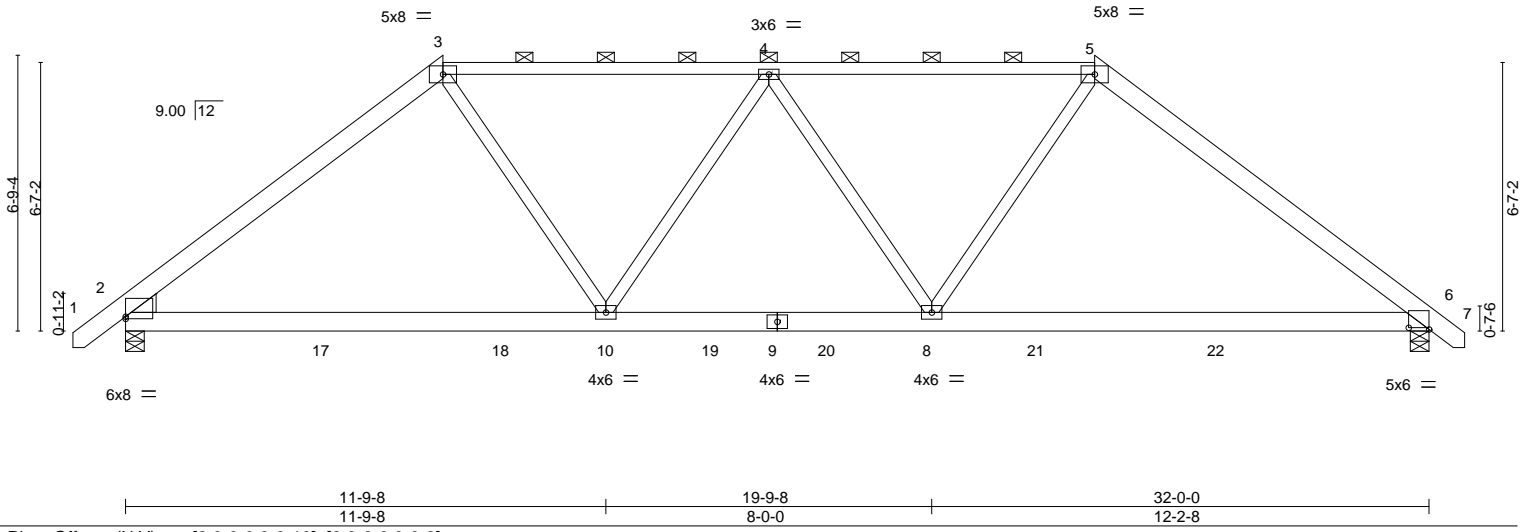


Plate Offsets (X,Y)--	[2:0-0,0,0-10], [6:0-6-0,0-0-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.83	Vert(LL) -0.16 8-16 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.68	Vert(CT) -0.33 8-16 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.42	Horz(CT) 0.04 6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.17 8-16 >999 240	Weight: 196 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.2 *Except*
 3-5: 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x6 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (3-7-11 max.): 3-5.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 2=1350/0-5-8, 6=1323/0-5-8
 Max Horz 2=300(LC 11)
 Max Uplift 2=-490(LC 12), 6=-478(LC 13)
 Max Grav 2=1356(LC 2), 6=1329(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1663/970, 3-4=-1592/1027, 4-5=-1630/1048, 5-6=-1671/988
 BOT CHORD 2-10=-631/1244, 8-10=-789/1746, 6-8=-526/1290
 WEBS 3-10=-230/673, 4-10=-394/415, 4-8=-333/399, 5-8=-225/658

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=490, 6=478.
 - 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.



February 13, 2020

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 2227286	Truss A31	Truss Type Hip Girder	Qty 3	Ply 2	H&H/Southport/ Job Reference (optional)	I40248654
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:39 2020 Page 2
ID:oMYUFR_W5RnH0V88pNA3fzorLo-ZuWB8dLhDzY8NIWqOveHRuTfwnW7rOcfp3SsR6zldPY

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-8=-60, 8-10=-60, 14-17=-20

Concentrated Loads (lb)

Vert: 3=-15(B) 6=-15(B) 8=-15(B) 13=-12(B) 11=-12(B) 20=-15(B) 21=-15(B) 22=-15(B) 23=-15(B) 24=-15(B) 25=-15(B) 26=-15(B) 27=-15(B) 28=-15(B) 29=-124(B)
30=-12(B) 31=-12(B) 32=-12(B) 33=-12(B) 34=-12(B) 35=-12(B) 36=-12(B) 37=-12(B) 38=-12(B) 39=-12(B) 40=-123(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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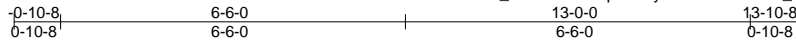
818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss B01	Truss Type GABLE	Qty 6	Ply 1	H&H/Southport/ Job Reference (optional)	140248655
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:40 2020 Page 1

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3x6 =

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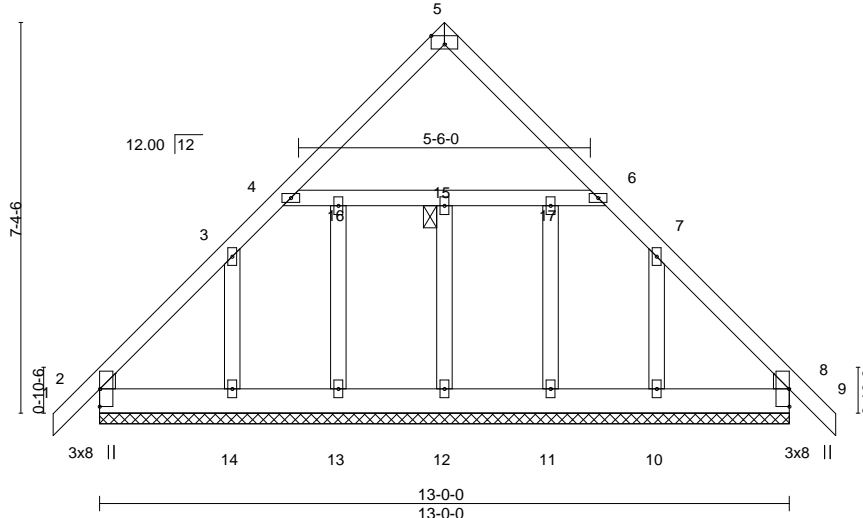


Plate Offsets (X,Y)-- [2:0-0-1,0-2-7], [2:0-0-1,0-0-1], [5:0-3-0,Edge], [8:0-0-1,0-0-1], [8:0-0-1,0-2-7]

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 0.18	Vert(LL)	-0.00	8	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	0.00	8	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.17	Horz(CT)	0.00	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 95 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 OTHERS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.2, Right: 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 15

REACTIONS. All bearings 13-0-0.
 (lb) - Max Horz 2=328(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 13, 11 except 2=208(LC 13), 8=193(LC 12), 14=260(LC 12), 10=248(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 12, 13, 11 except 2=396(LC 20), 8=379(LC 19), 14=279(LC 10), 10=262(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-448/251, 3-4=-374/292, 6-7=-373/292, 7-8=-426/234
 BOT CHORD 2-14=-107/274, 13-14=-107/274, 12-13=-107/274, 11-12=-107/274, 10-11=-107/274, 8-10=-107/274
 WEBS 4-16=-267/275, 15-16=-267/275, 15-17=-267/275, 6-17=-267/275, 3-14=-219/260

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Vertical gable studs spaced at 2-0-0 oc and horizontal gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 11 except (jt=lb) 2=208, 8=193, 14=260, 10=248.



February 13, 2020

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.

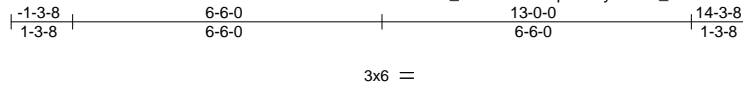


818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss B02	Truss Type GABLE	Qty 6	Ply 1	H&H/Southport/ Job Reference (optional)	140248656
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:42 2020 Page 1
ID:oMYUFR_W5RnH0V88pNA3fyzorLo_TBKmfNaWuxiE1FP32C_3X5BD_ch2n15W1gW1RzldPV



Scale: 1/4"=1'

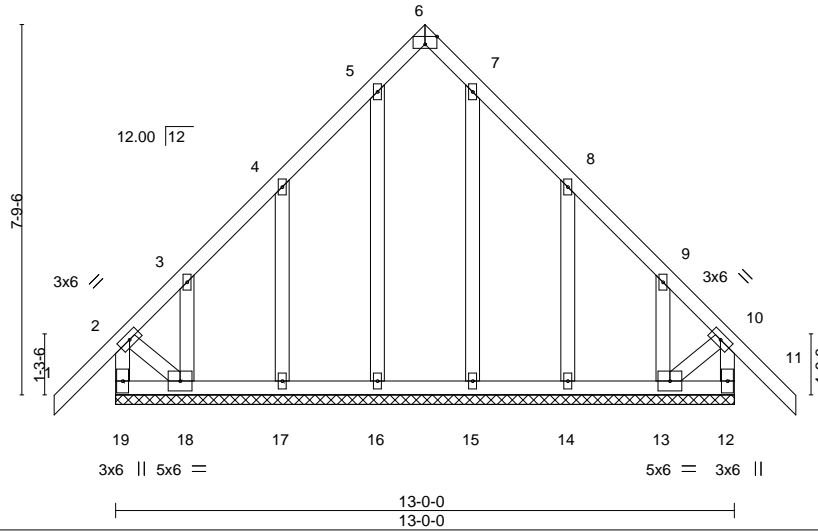


Plate Offsets (X,Y)-- [6:0-3-0,Edge]

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 0.32	Vert(LL)	-0.01	11	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	-0.01	11	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.01	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 97 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 13-0-0.
(lb) - Max Horz 19=416(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 16, 15 except 19=189(LC 10), 12=148(LC 11), 17=272(LC 12), 18=437(LC 12), 14=275(LC 13), 13=428(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 16, 17, 15, 14 except 19=453(LC 12), 12=436(LC 13), 18=286(LC 10), 13=265(LC 11)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-19=-435/383, 2-3=-398/323, 3-4=-270/189, 8-9=-257/181, 9-10=-384/343, 10-12=-419/405
BOT CHORD 18-19=-377/360, 17-18=-362/450, 16-17=-362/450, 15-16=-362/450, 14-15=-362/450, 13-14=-362/450
WEBS 4-17=-308/308, 3-18=-266/165, 8-14=-312/307, 9-13=-268/163, 2-18=-364/462, 10-13=-353/460

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 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.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 15 except (jt=lb) 19=189, 12=148, 17=272, 18=437, 14=275, 13=428.



February 13, 2020

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 2227286	Truss B03	Truss Type GABLE	Qty 3	Ply 1	H&H/Southport/ Job Reference (optional)	140248657
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:43 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-Sgliz?OCHC3ZsvqcdljDckeMzOyWnEYEkhQ4atzldPU



3x6 =

Scale: 1/4"=1'

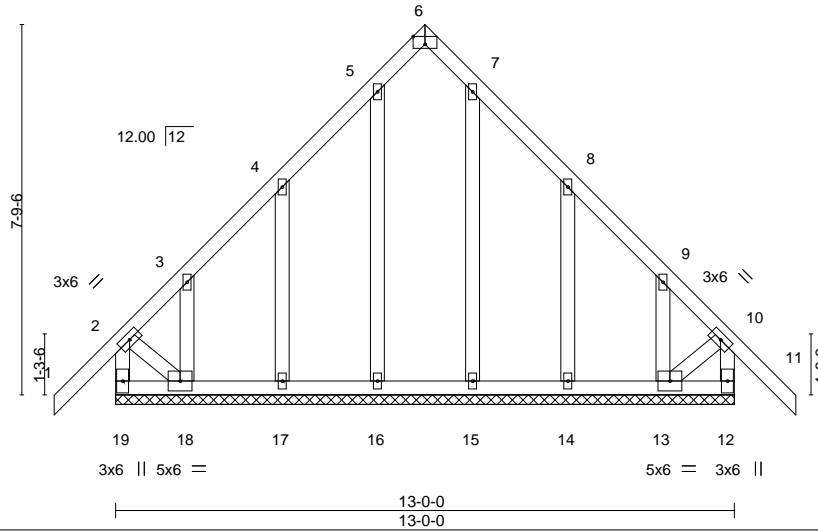


Plate Offsets (X,Y)--	[6:0-3-0,Edge]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.32	Vert(LL)	-0.01	11	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	-0.01	11	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.01	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 97 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 13-0-0.
 (lb) - Max Horz 19=416(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 16, 15 except 19=189(LC 10), 12=148(LC 11), 17=272(LC 12), 18=437(LC 12), 14=275(LC 13), 13=428(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 16, 17, 15, 14 except 19=453(LC 12), 12=436(LC 13), 18=286(LC 10), 13=265(LC 11)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-19=-435/383, 2-3=-398/323, 3-4=-270/189, 8-9=-257/181, 9-10=-384/343, 10-12=-419/405
 BOT CHORD 18-19=-377/360, 17-18=-362/450, 16-17=-362/450, 15-16=-362/450, 14-15=-362/450, 13-14=-362/450
 WEBS 4-17=-308/308, 3-18=-266/165, 8-14=-312/307, 9-13=-268/163, 2-18=-364/462, 10-13=-353/460

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 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.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 15 except (jt=lb) 19=189, 12=148, 17=272, 18=437, 14=275, 13=428.



February 13, 2020

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.

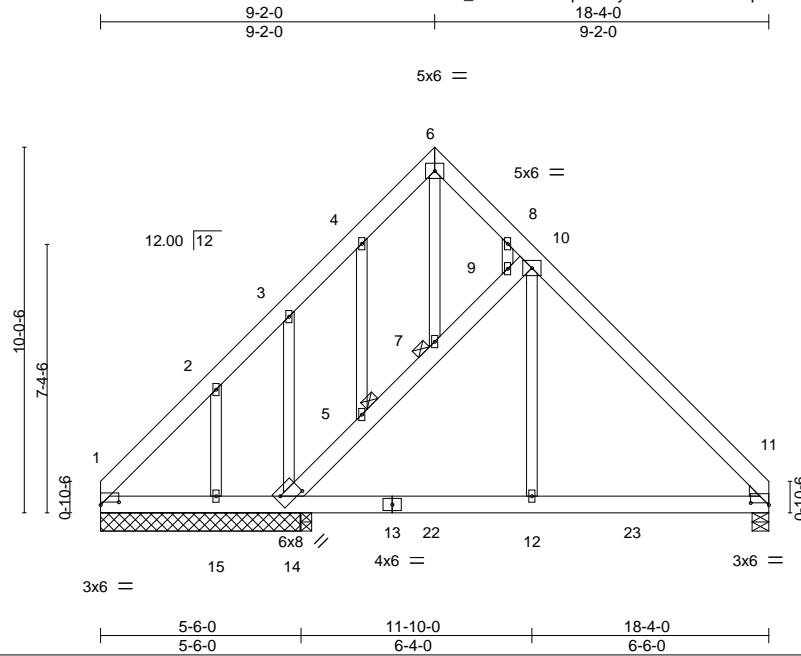


818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss C01	Truss Type Common Structural Gable	Qty 3	Ply 1	H&H/Southport/ Job Reference (optional)	140248658
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:44 2020 Page 1
ID:oMYUFR_W5RnH0V88pNA3fyzorLo-wsJ4BKPq2WBQT3OoATES8yAY3oGAWhpOzL9d6KzIdPT



Scale = 1:63.2

Plate Offsets (X,Y)--	[1:0-6-0,0-0-15], [11:0-6-0,0-0-11], [14:0-6-6,0-3-14]				
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 0.30	Vert(LL) 0.04 12-21 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.24	Vert(CT) -0.03 12-21 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.02 11 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS			
				Weight: 165 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3
 WEDGE
 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.
 JOINTS 1 Brace at Jt(s): 5, 7

REACTIONS.

All bearings 5-5-12 except (jt=length) 11=0-5-8, 14=0-3-8.
 (lb) - Max Horz 1=407(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 11 except 15=-428(LC 12), 14=-458(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1 except 1=396(LC 12), 11=569(LC 20), 15=265(LC 19), 14=630(LC 20)

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

TOP CHORD 1-2=-556/421, 2-3=-278/191, 10-11=-620/128, 5-14=-762/582, 5-7=-641/510,
 7-9=-650/496, 9-10=-621/470
 BOT CHORD 1-15=-357/562, 14-15=-359/563, 12-14=0/411, 11-12=0/411
 WEBS 3-14=-284/277, 2-15=-368/364, 10-12=0/332

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 1 except (jt=lb) 15=428, 14=458.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 13, 2020

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.



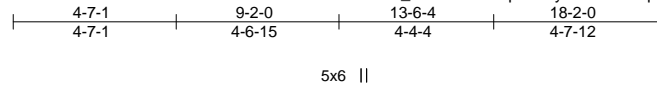
818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss C02	Truss Type Common Girder	Qty 3	Ply 2	H&H/Southport/ 140248659
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ID: oMYUFR_W5RnH0V88pNA3fyzorLo-sFRqc0Q4a7R8jMYAITGwENGuBbxn_RAHQfekACzldPR



Scale = 1:64.8

Plate Offsets (X,Y)--	[1:0-0-0,0-0-11], [5:0-0-0,0-2-15], [6:0-5-4,0-1-8], [7:0-6-0,0-6-0], [8:0-5-4,0-1-8]				
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 0.26	Vert(LL) 0.08 7-8 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.30	Vert(CT) -0.12 6-7 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.79	Horz(CT) 0.02 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 327 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x8 SP DSS
 WEBS 2x4 SP No.2
 WEDGE
 Right: 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) 1=5829/0-5-8, 5=6999/0-3-8 (req. 0-4-2)
 Max Horz 1=406(LC 5)
 Max Uplift 1=-2322(LC 9), 5=-2383(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-6639/2684, 2-3=-4657/1997, 3-4=-4637/1997, 4-5=-6546/2387
 BOT CHORD 1-8=-1958/4612, 7-8=-1958/4612, 6-7=-1563/4505, 5-6=-1563/4505
 WEBS 2-8=-1084/2615, 2-7=-1963/1181, 3-7=-2551/6124, 4-7=-1909/889, 4-6=-709/2616

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-7-0 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=150mph (3-second gust) Vasd=119mph; 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
- 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.
- WARNING: Required bearing size at joint(s) 5 greater than input bearing size.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=2322, 5=2383.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1221 lb down and 527 lb up at 1-10-12, 1221 lb down and 527 lb up at 3-10-12, 1221 lb down and 527 lb up at 5-10-12, 1221 lb down and 527 lb up at 7-10-12, 1221 lb down and 527 lb up at 9-10-12, 1318 lb down and 396 lb up at 11-9-12, 1318 lb down and 396 lb up at 13-9-12, and 1318 lb down and 396 lb up at 15-9-12, and 1324 lb down and 390 lb up at 17-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2



February 13, 2020

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 2227286	Truss C02	Truss Type Common Girder	Qty 3	Ply 2	H&H/Southport/ Job Reference (optional)	140248659
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8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:46 2020 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 9-12=-20

Concentrated Loads (lb)

Vert: 6=-1318(B) 14=-1324(B) 15=-1219(B) 16=-1219(B) 17=-1219(B) 18=-1219(B) 19=-1219(B) 20=-1318(B) 21=-1318(B)

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.



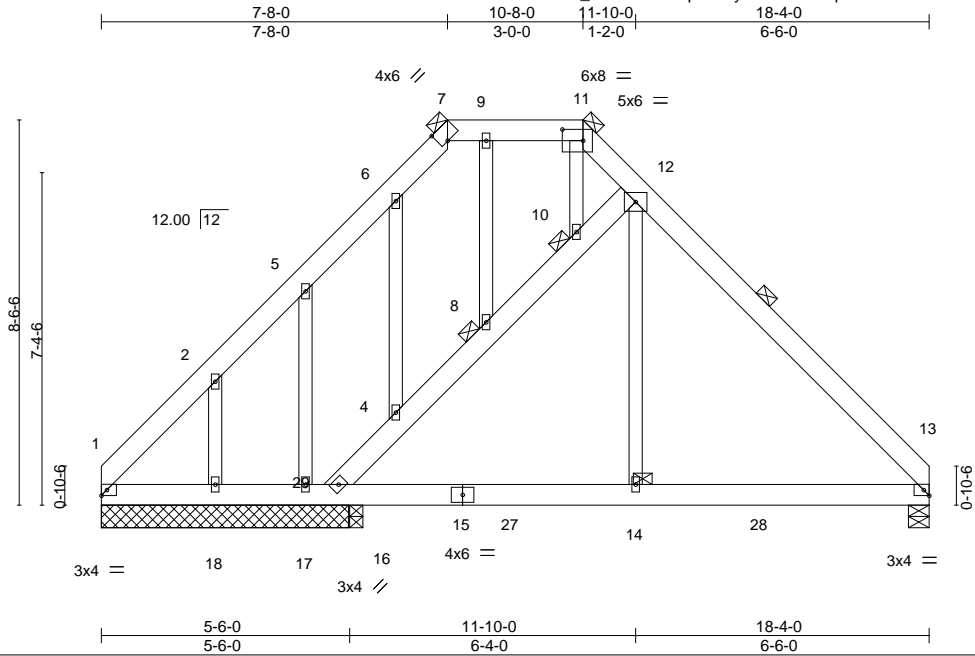
818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss C03	Truss Type Hip Structural Gable	Qty 3	Ply 1	H&H/Southport/ Job Reference (optional)	140248660
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:47 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-KR?DpMRiKRZ?LW7Nsb9mao4M?Kzj3cqfJOHjezldPQ



Scale = 1:51.0

Plate Offsets (X,Y)--	[7:0-2-2,Edge], [11:0-5-8,0-3-0]				
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 0.17	Vert(LL) -0.01 14-24 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.11	Vert(CT) -0.01 3-25 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT) -0.00 13 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.01 3-25 >999 240	Weight: 161 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.2	Except:
WEBS 2x4 SP No.3	1 Row at midpt 11-13
OTHERS 2x4 SP No.3	6-0-0 oc bracing: 3-4
	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
	1 Row at midpt 22-25
	JOINTS 1 Brace at Jt(s): 7, 11, 8, 10

REACTIONS. All bearings 5-5-12 except (jt=length) 13=0-5-8, 16=0-3-8.
 (lb) - Max Horz 1=291(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 18, 3 except 17=-158(LC 12), 16=-316(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 13, 3, 1 except 17=267(LC 19), 16=541(LC 19)

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=150mph (3-second gust) Vasd=119mph; 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
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 18, 3, 1 except (jt=lb) 17=158, 16=316.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

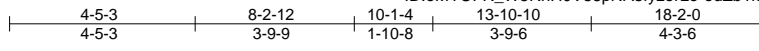


February 13, 2020

Job 2227286	Truss C04	Truss Type Hip Girder	Qty 3	Ply 2	H&H/Southport/ Job Reference (optional)	140248661
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8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:48 2020 Page 1
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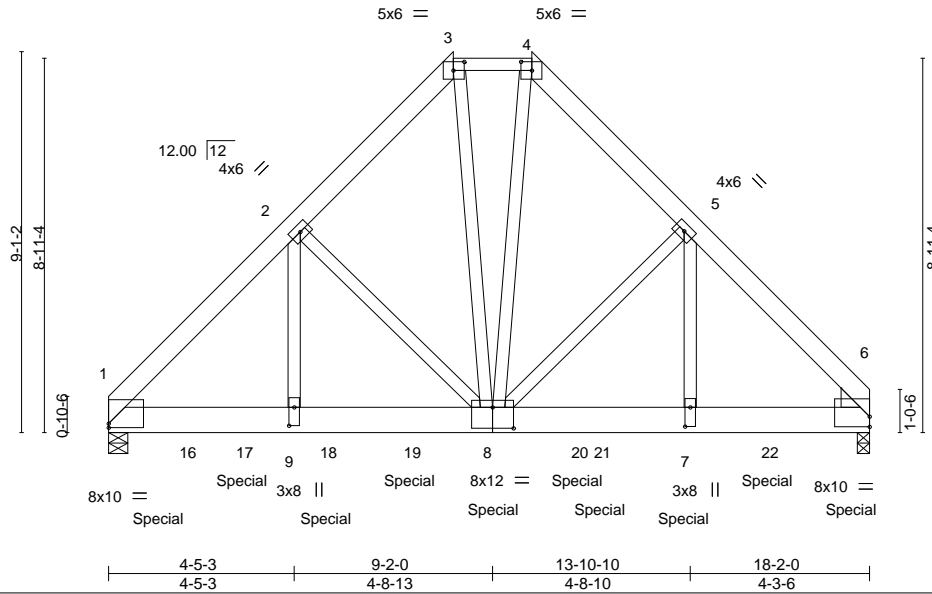


Plate Offsets (X,Y)--	[1:0-0-0,0-1-3], [3:0-3-2,0-2-8], [4:0-3-2,0-2-8], [6:Edge,0-2-15], [7:0-5-8,0-1-8], [8:0-6-0,0-6-0], [9:0-5-4,0-1-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.34	Vert(LL)	0.08	7-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.41	Vert(CT)	-0.12	7-8	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.43	Horz(CT)	0.03	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 340 lb	FT = 20%

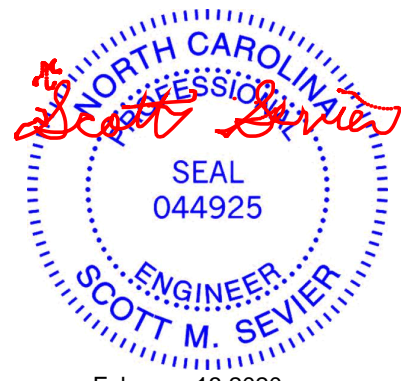
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 3-4: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-6-4 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD 2x8 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
WEDGE	
Right: 2x6 SP No.2	

REACTIONS. (lb/size) 1=6482/0-5-8, 6=7565/0-3-8 (req. 0-4-7)
Max Horz 1=366(LC 5)
Max Uplift 1=-2595(LC 8), 6=-2607(LC 9)

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-7092/2845, 2-3=-5169/2166, 3-4=-3994/1750, 4-5=-5149/2160, 5-6=-7382/2689
BOT CHORD 1-9=-2074/4941, 8-9=-2074/4941, 7-8=-1780/5084, 6-7=-1780/5084
WEBS 2-9=-1023/2456, 2-8=-1870/1113, 3-8=-1467/3465, 4-8=-1452/3414, 5-7=-826/2892, 5-8=-2074/932

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-5-0 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=150mph (3-second gust) Vasd=119mph; 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.
 - WARNING: Required bearing size at joint(s) 6 greater than input bearing size.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=2595, 6=2607.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1221 lb down and 527 lb up at 1-3-4, 1221 lb down and 527 lb up at 3-3-4, 1221 lb down and 527 lb up at 5-3-4, 1221 lb down and 527 lb up at 7-3-4, 1221 lb down and 527 lb up at 9-3-4, 1221 lb down and 527 lb up at 11-3-4, 1318 lb down and 396 lb up at 11-9-12, 1318 lb down and 396 lb up at 13-9-12, and 1318 lb down and 396 lb up at 15-9-12, and 1324 lb down and 390 lb up at 17-9-12 on bottom chord.
The design selection of such connection device(s) is the responsibility of others.



February 13, 2020

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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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss C04	Truss Type Hip Girder	Qty 3	Ply 2	H&H/Southport/ Job Reference (optional)	140248661
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:48 2020 Page 2
ID:oMYUFR_W5RnH0V88pNA3fzorLo-odZb1iSL5khsygiZPIIOJoLCTPaZSR1_uz7rf5zldPP

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-60, 4-6=-60, 10-13=-20

Concentrated Loads (lb)

Vert: 8=-1219(B) 7=-1318(B) 15=-1324(B) 16=-1219(B) 17=-1219(B) 18=-1219(B) 19=-1219(B) 20=-1219(B) 21=-1318(B) 22=-1318(B)

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.



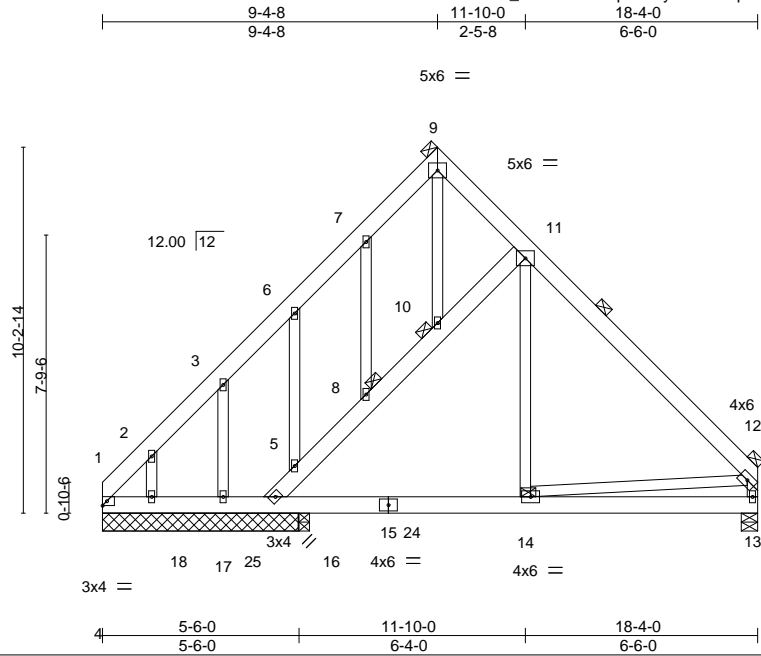
818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss C05	Truss Type Common Structural Gable	Qty 3	Ply 1	H&H/Southport/ Job Reference (optional)	140248662
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:49 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-Hq6zE2Szs2pjaqHlz0qdr?uQGp_4B_N77dtOnXzldPO



Scale: 3/16"=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 0.14	Vert(LL)	-0.01 14-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.01 4-22	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	-0.00 4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.01 4-22	>999	240		
								Weight: 175 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except:
1 Row at midpt 9-12
6-0-0 oc bracing: 4-5
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
1 Row at midpt 13-22
JOINTS 1 Brace at Jt(s): 9, 8, 10, 12

REACTIONS. All bearings 5-5-12 except (jt=length) 13=0-5-8, 16=0-3-8.
(b) - Max Horz 1=234(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 18 except 17=218(LC 12), 4=110(LC 12), 16=243(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 13, 4, 1 except 17=325(LC 19), 16=435(LC 19)

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=150mph (3-second gust) Vasd=119mph; 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
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 18, 1 except (jt=lb) 17=218, 4=110, 16=243.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 13, 2020

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.



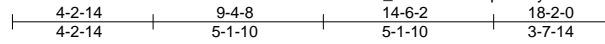
818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss C06	Truss Type Common Girder	Qty 3	Ply 2	H&H/Southport/ Job Reference (optional)	140248663
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:51 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-DCEjfkUDOf3Rp8R85Rs5xQzkNcdzfhGQaxMVsQzldPM



5x6 ||

Scale = 1:69.5

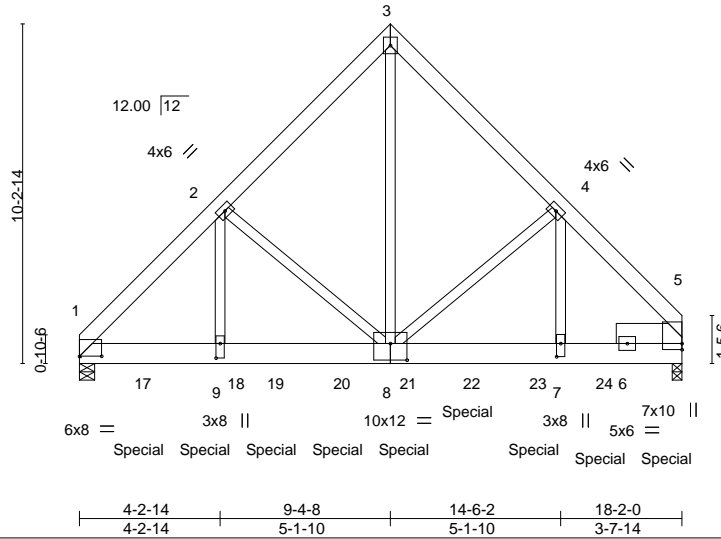


Plate Offsets (X,Y)--	[1:0-8-0,0-0-1], [7:0-4-12,0-1-8], [8:0-6-0,0-6-0], [9:0-5-4,0-1-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.30	Vert(LL) 0.09 7-8 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.36	Vert(CT) -0.12 7-8 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.79	Horz(CT) 0.02 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 336 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x8 SP DSS
 WEBS 2x4 SP No.2
 SLIDER Right 2x8 SP DSS 1-11-12

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) 1=5822/0-5-8, 5=7006/0-3-8 (req. 0-4-2)
 Max Horz 1=414(LC 24)
 Max Uplift 1=-2319(LC 9), 5=-2392(LC 8)

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-6769/2739, 2-3=-4632/1972, 3-4=-4621/1968, 4-5=-6252/2257
 BOT CHORD 1-9=-2043/4705, 8-9=-2043/4705, 7-8=-1485/4286, 5-7=-1485/4286
 WEBS 2-9=-1070/2600, 2-8=-1957/1191, 3-8=-2465/6051, 4-8=-1412/702, 4-7=-520/1991

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-7-0 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=150mph (3-second gust) Vasd=119mph; 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
- 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.
- WARNING: Required bearing size at joint(s) 5 greater than input bearing size.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=2319, 5=2392.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1221 lb down and 527 lb up at 1-10-12, 1221 lb down and 527 lb up at 3-10-12, 1221 lb down and 527 lb up at 5-10-12, 1221 lb down and 527 lb up at 7-10-12, 1221 lb down and 527 lb up at 9-10-12, 1318 lb down and 396 lb up at 11-9-12, 1318 lb down and 396 lb up at 13-9-12, and 1318 lb down and 396 lb up at 15-9-12, and 1324 lb down and 390 lb up at 17-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



February 13, 2020

Continued on page 2

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 2227286	Truss C06	Truss Type Common Girder	Qty 3	Ply 2	H&H/Southport/ Job Reference (optional)	I40248663
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:51 2020 Page 2
ID:oMYUFR_W5RnH0V88pNA3fyzorLo-DCEjfkUDOf3Rp8R85Rs5xQzkNcdzfhGQaxMVsQzldPM

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 10-13=-20

Concentrated Loads (lb)

Vert: 15=-1324(B) 17=-1219(B) 18=-1219(B) 19=-1219(B) 20=-1219(B) 21=-1219(B) 22=-1318(B) 23=-1318(B) 24=-1318(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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818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss C07	Truss Type Common Structural Gable	Qty 3	Ply 1	H&H/Southport/ Job Reference (optional)	140248664
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Builders FirstSource, Sumter, SC - 29153,

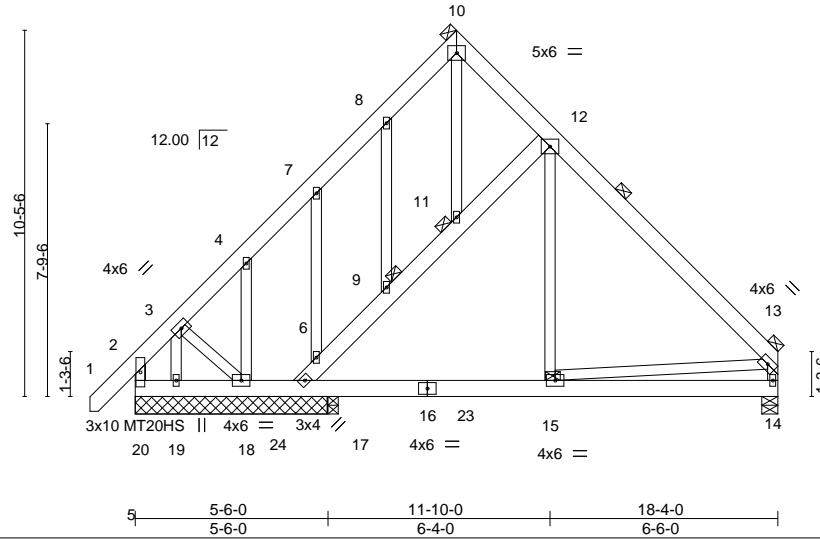
8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:52 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fzorLo-hPo6s3Vr9zBIRH0Ke8NKTeWvN01wOJmZpb52OszldPL



5x6 =

Scale = 1:65.7



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 0.28	Vert(LL)	-0.01	15-17	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	-0.01	5-21	>999	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	-0.00	20	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.01	5-21	>999		
								Weight: 186 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except:
 1 Row at midpt 10-13
 6-0-0 oc bracing: 5-6
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
 1 Row at midpt 14-21
 JOINTS 1 Brace at Jt(s): 10, 9, 11, 13

REACTIONS. All bearings 5-5-12 except (jt=length) 14=0-5-8, 17=0-3-8.
 (lb) - Max Horz 5=297(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 20, 14, 5 except 18=354(LC 12), 19=157(LC 19), 17=232(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 20, 14, 5 except 18=357(LC 19), 19=282(LC 12), 17=427(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 BOT CHORD 5-18=187/281
 WEBS 3-19=361/252

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
 - 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.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 14, 5 except (jt=lb) 18=354, 19=157, 17=232.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 13, 2020

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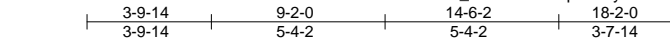
818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss C08	Truss Type Common Girder	Qty 3	Ply 2	H&H/Southport/ 140248665
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:53 2020 Page 1

ID: oMYUFR_W5RnHOV88pNA3fyzorLo-9bMU4PWTwHJ83RaXCsuZ0r24uQl47bbj1FrcwzldPK



5x6 ||

Scale = 1:70.9

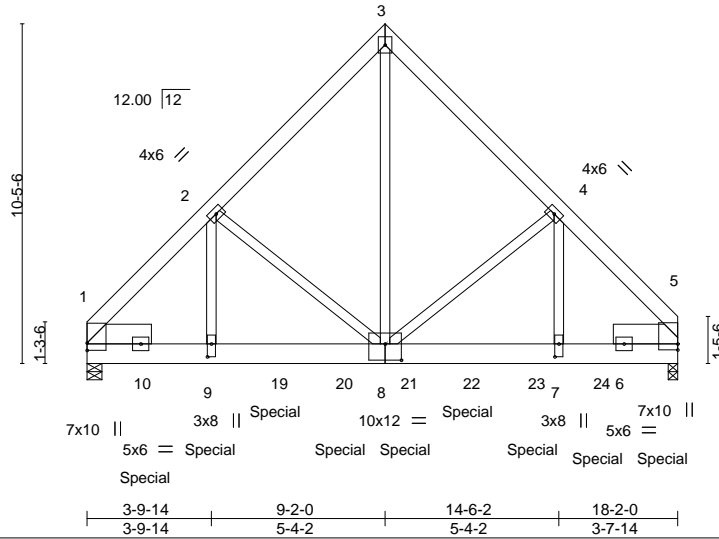


Plate Offsets (X,Y)-- [7:0-4-12,0-1-8], [8:0-6-0,0-6-0], [9:0-4-12,0-1-8]

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 0.29	Vert(LL)	0.09	7-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.39	Vert(CT)	-0.12	7-8	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.81	Horz(CT)	0.01	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 350 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP DSS
WEBS 2x4 SP No.2
SLIDER Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12

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) 1=5838/0-5-8, 5=6983/0-3-8 (req. 0-4-2)
Max Horz 1=406(LC 24)
Max Uplift 1=2310(LC 9), 5=2371(LC 8)

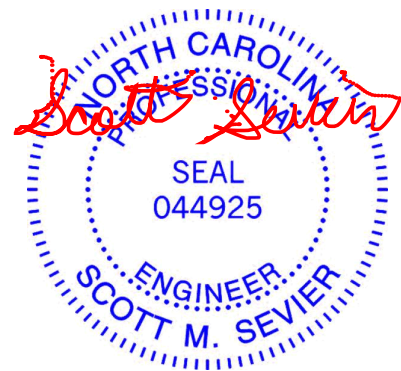
SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-6158/2487, 2-3=-4539/1927, 3-4=-4532/1926, 4-5=-6248/2240
BOT CHORD 1-9=-1857/4259, 8-9=-1857/4259, 7-8=-1476/4286, 5-7=-1476/4286
WEBS 2-9=-828/1958, 2-8=-1454/975, 3-8=-2389/5906, 4-8=-1477/735, 4-7=-545/2066

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-7-0 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=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; TCDL=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
- 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.
- WARNING: Required bearing size at joint(s) 5 greater than input bearing size.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=2310, 5=2371.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1226 lb down and 520 lb up at 1-10-12, 1226 lb down and 520 lb up at 3-10-12, 1226 lb down and 520 lb up at 5-10-12, 1226 lb down and 520 lb up at 7-10-12, 1226 lb down and 520 lb up at 9-10-12, 1317 lb down and 396 lb up at 11-9-12, 1317 lb down and 396 lb up at 13-9-12, and 1317 lb down and 396 lb up at 15-9-12, and 1324 lb down and 389 lb up at 17-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



Continued on page 2

<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>ENGINEERING BY A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 2227286	Truss C08	Truss Type Common Girder	Qty 3	Ply 2	H&H/Southport/ Job Reference (optional)	I40248665
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:53 2020 Page 2
ID:oMYUFR_W5RnH0V88pNA3fyzorLo-9bMU4PWTwHJ83RaXCsuZ0r24uQl47bbj1FrcwizldPK

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 11-15=-20

Concentrated Loads (lb)

Vert: 9=-1218(B) 10=-1218(B) 17=-1324(B) 19=-1218(B) 20=-1218(B) 21=-1218(B) 22=-1317(B) 23=-1317(B) 24=-1317(B)

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.



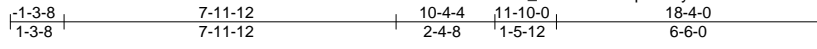
818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss C09	Truss Type Hip Structural Gable	Qty 3	Ply 1	H&H/Southport/ Job Reference (optional)	140248666
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:55 2020 Page 1

ID:oMYUFR_W5RnHOV88pNA3fyzorLo-5zUEV5XkSuZsllkvKGx15G8MrE1xbfOVZKi?BzldPI



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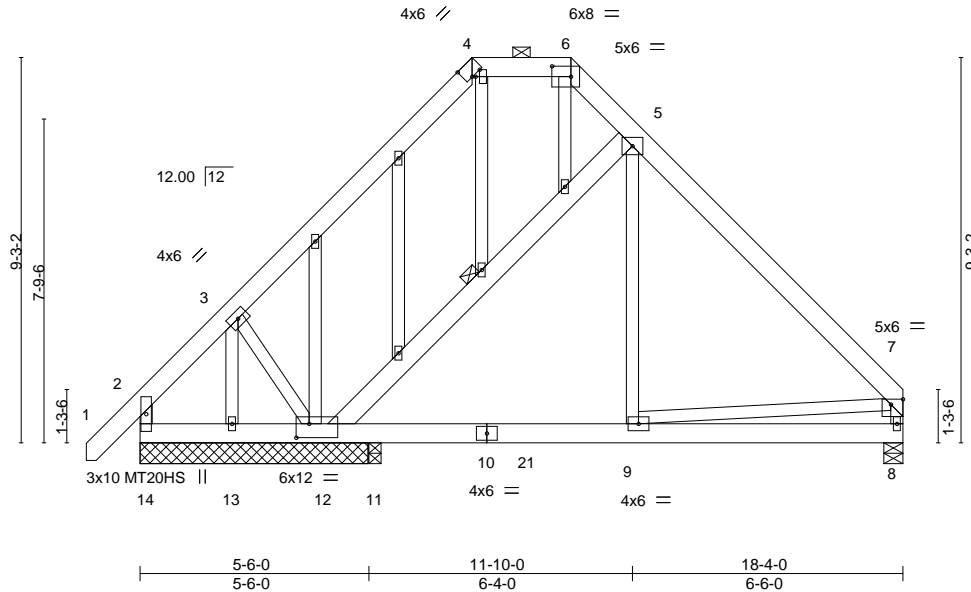


Plate Offsets (X,Y)--	[4:0-2-2,Edge], [6:0-5-8,0-3-0], [7:Edge,0-1-8], [12:0-3-12,0-4-0], [12:0-3-14,0-0-0], [19:0-2-0,0-1-2]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.52	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(LL) -0.01 8-9 >999 360	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Vert(CT) -0.02 8-9 >999 240		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Horz(CT) 0.00 8 n/a n/a		
			Wind(LL) 0.00 9 >999 240	Weight: 184 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 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 (6-0-0 max.): 4-6, 5-12.
BOT CHORD 2x6 SP No.2	Except:
WEBS 2x4 SP No.3	1 Row at midpt 5-12
OTHERS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 5-5-12 except (jt=length) 8=0-5-8, 11=0-3-8.
 (lb) - Max Horz 14=448(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 14, 13 except 8=167(LC 12), 12=525(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 13, 11 except 14=527(LC 23), 8=611(LC 1), 12=323(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-454/89, 3-4=-393/179, 4-6=-257/266, 5-6=-307/300, 5-7=-615/267, 2-14=-435/133, 7-8=-550/296, 5-12=-477/403
 BOT CHORD 13-14=-433/492, 12-13=-433/492, 11-12=-105/380, 9-11=-105/380, 8-9=-199/273
 WEBS 3-12=-538/520, 5-9=0/254, 7-9=-149/352

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 13 except (jt=lb) 8=167, 12=525.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 13, 2020

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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.

TRENCO ENGINEERING BY
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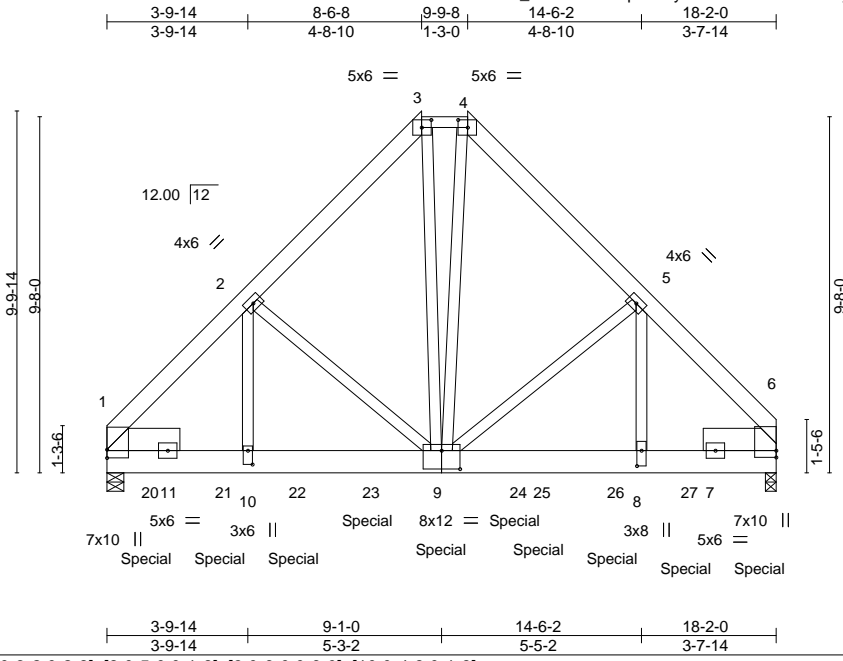
818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss C10	Truss Type Hip Girder	Qty 3	Ply 2	H&H/Southport/ Job Reference (optional)	140248667
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:56 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-ZA1ciRYMDChjwwJ5t_SGeUgaldlek209kD3GXdzldPH



Scale = 1:62.5

Plate Offsets (X,Y)--	[3:0-3-2,0-2-8], [4:0-3-2,0-2-8], [8:0-5-0,0-1-8], [9:0-6-0,0-6-0], [10:0-4-8,0-1-8]
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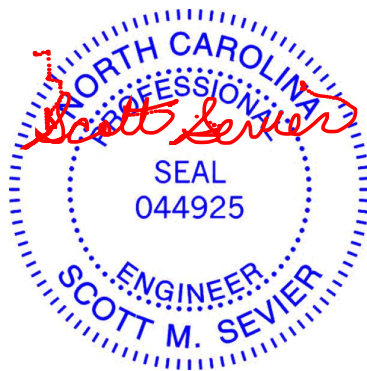
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.35	Vert(LL)	0.09	8-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.46	Vert(CT)	-0.13	8-9	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.44	Horz(CT)	0.02	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 370 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 or 5-7-15 oc purlins, except
BOT CHORD 2x8 SP DSS	2-0-0 oc purlins (6-0-0 max.); 3-4.
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12	

REACTIONS. (lb/size) 1=6538/0-5-8, 6=7501/0-3-8 (req. 0-4-7)
 Max Horz 1=380(LC 5)
 Max Uplift 1=-2586(LC 9), 6=-2570(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-6582/2644, 2-3=-5076/2121, 3-4=-3737/1663, 4-5=-4985/2088, 5-6=-6926/2503
 BOT CHORD 1-10=-1961/4567, 9-10=-1961/4567, 8-9=-1657/4754, 6-8=-1657/4754
 WEBS 2-10=-778/1820, 2-9=-1379/925, 3-9=-1435/3378, 4-9=-1406/3292, 5-8=-660/2340, 5-9=-1659/791

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-5-0 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=150mph (3-second gust) Vasd=119mph; 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.
 - WARNING: Required bearing size at joint(s) 6 greater than input bearing size.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=2586, 6=2570.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1226 lb down and 520 lb up at 1-2-0, 1226 lb down and 520 lb up at 3-2-0, 1226 lb down and 520 lb up at 5-2-0, 1226 lb down and 520 lb up at 7-2-0, 1226 lb down and 520 lb up at 9-2-0, 1226 lb down and 520 lb up at 11-2-0, 1317 lb down and 396 lb up at 11-9-12, 1317 lb down and 396 lb up at 13-9-12, and 1317 lb down and 396 lb up at 15-9-12, and 1324 lb down and 389 lb up at 17-9-12 on bottom chord.
 The design/selection of such connection device(s) is the responsibility of others.



February 13, 2020

Continued on page 2

LOAD CASE(S) Standard

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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818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss C10	Truss Type Hip Girder	Qty 3	Ply 2	H&H/Southport/ Job Reference (optional)	140248667
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:56 2020 Page 2
ID:oMYUFR_W5RnH0V88pNA3fyzorLo-ZA1ciRYMDChjwwJ5t_SGeUgaldleK209kD3GXdzldPH

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-60, 4-6=-60, 12-16=-20

Concentrated Loads (lb)

Vert: 9=-1218(B) 18=-1324(B) 20=-1218(B) 21=-1218(B) 22=-1218(B) 23=-1218(B) 24=-1218(B) 25=-1317(B) 26=-1317(B) 27=-1317(B)

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 2227286	Truss CP01	Truss Type Common Supported Gable	Qty 5	Ply 1	H&H/Southport/ Job Reference (optional)	140248668
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:57 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-2Mb_wnZ__VqaX3ulRhZVAhDoK11E3aqlysp33zldPG

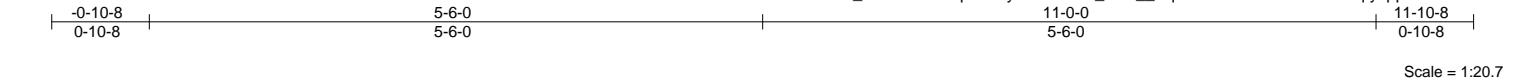


Plate Offsets (X,Y)--	[2:0-1-6,0-0-1], [2:0-0-11,0-10-14], [6:0-1-6,0-0-1], [6:0-0-11,0-10-14]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.14	Vert(LL) 0.00 7 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) 0.00 7 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT) 0.00 6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 56 lb	FT = 20%

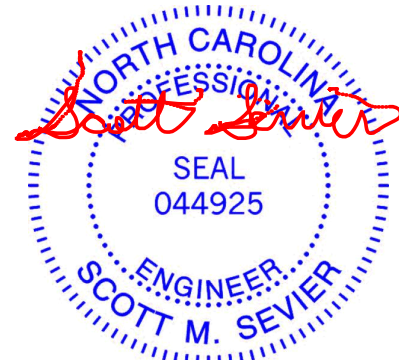
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.2, Right: 2x4 SP No.2

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

REACTIONS. All bearings 11-0-0.
(lb) - Max Horz 2=-80(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 2 except 6=-103(LC 13), 10=-206(LC 12), 8=-205(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9 except 10=282(LC 1), 8=282(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-10=-190/286, 5-8=-190/286

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
 - 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.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (it=lb) 6=103, 10=206, 8=205.



February 13, 2020

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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.



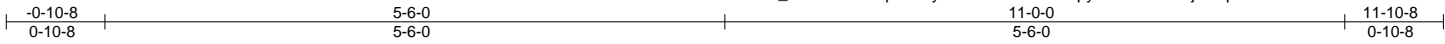
818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss CP02	Truss Type Common	Qty 25	Ply 1	H&H/Southport/ Job Reference (optional)	140248669
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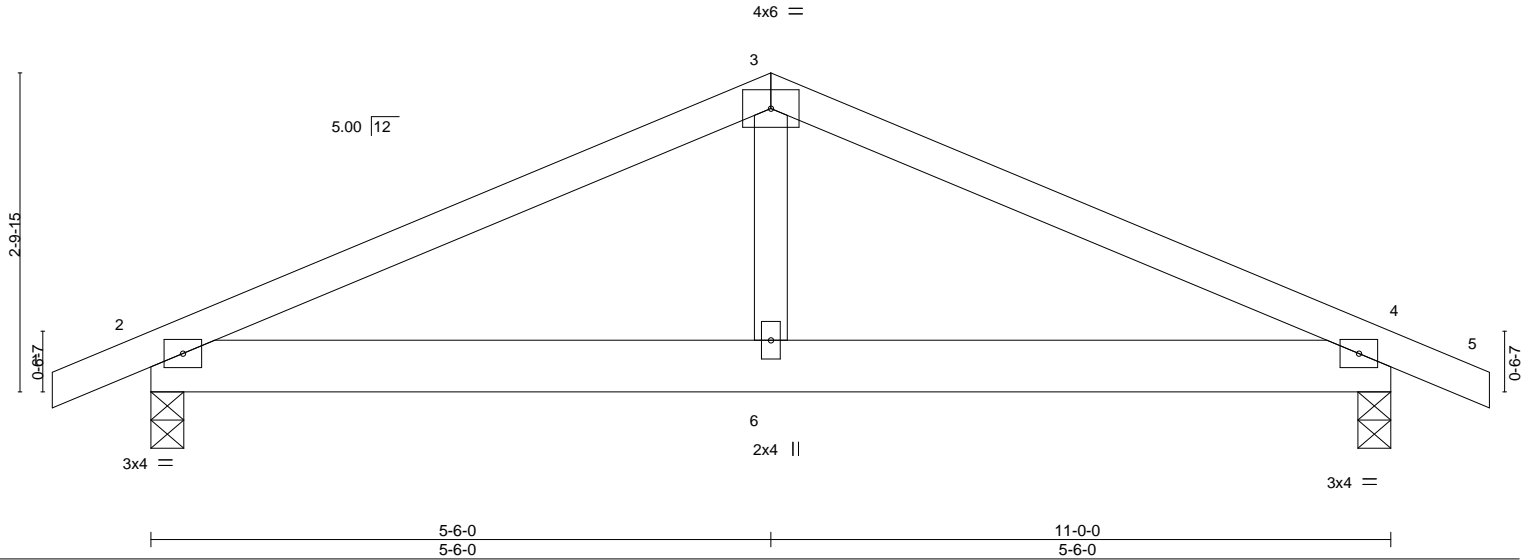
Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:58 2020 Page 1

ID:oMYUFR_W5RnHOV88pNA3fyzorLo-WY9N77ZclpyR9CTU?PUKjvmvpr2Bo1wSBWYNcWzldPF



Scale = 1:20.4



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 0.41	Vert(LL)	0.04 6-12	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.20	Vert(CT)	-0.02 6-9	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	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 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

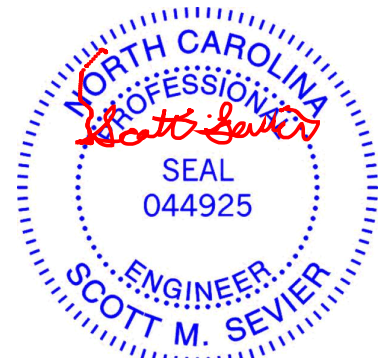
BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 2=493/0-3-8, 4=492/0-3-8
Max Horz 2=-80(LC 17)
Max Uplift 2=-373(LC 8), 4=-373(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-664/1240, 3-4=-664/1240
BOT CHORD 2-6=-998/560, 4-6=-998/560
WEBS 3-6=-558/252

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=373, 4=373.
- 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.



February 13, 2020

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.



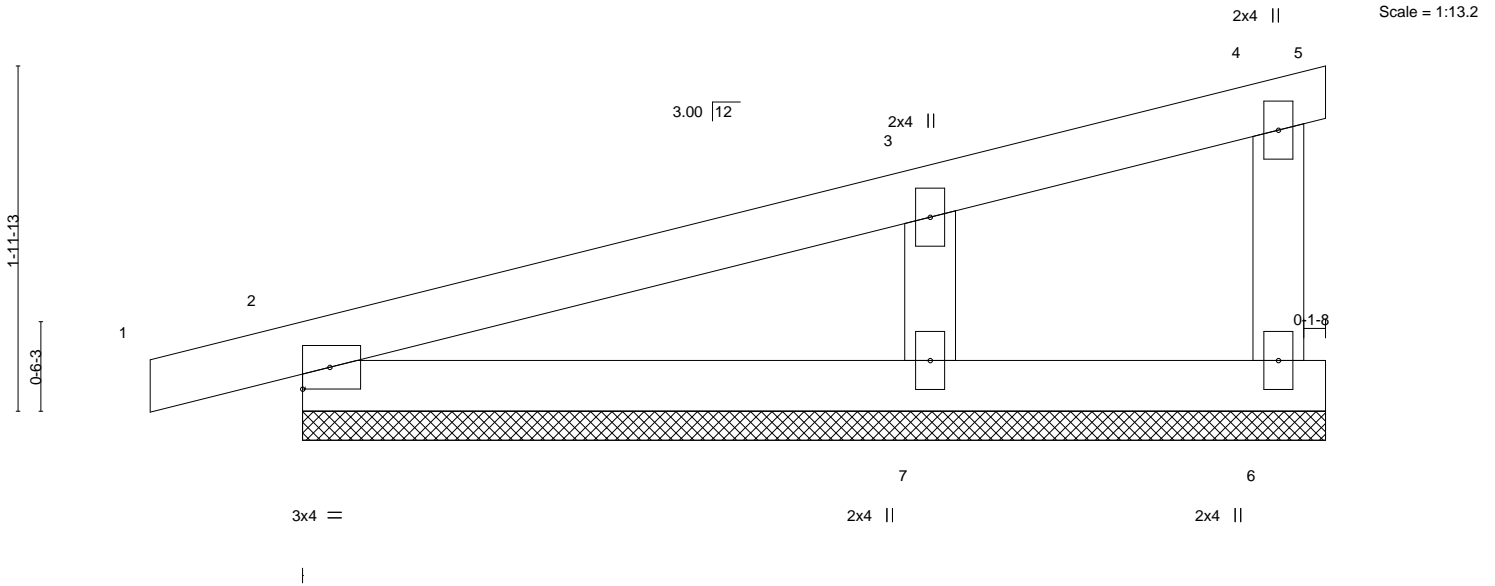
818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss D01	Truss Type Monopitch Supported Gable	Qty 15	Ply 1	H&H/Southport/ Job Reference (optional)	140248670
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:07:59 2020 Page 1

ID:oMYUFR_W5RnHOV88pNA3fyzorLo-_jjkTaEW74InM2gZ6?zF618JrQwXU?bQAlw8yzldPE



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)	0.00	4	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	0.00	4	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 22 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-10-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=41/5-10-8, 2=178/5-10-8, 7=287/5-10-8
 Max Horz 2=121(LC 9)
 Max Uplift 6=-31(LC 8), 2=-131(LC 8), 7=-182(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-7=-224/359

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=131, 7=182.



February 13, 2020

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818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss D02	Truss Type Monopitch	Qty 90	Ply 1	H&H/Southport/ Job Reference (optional)	140248671
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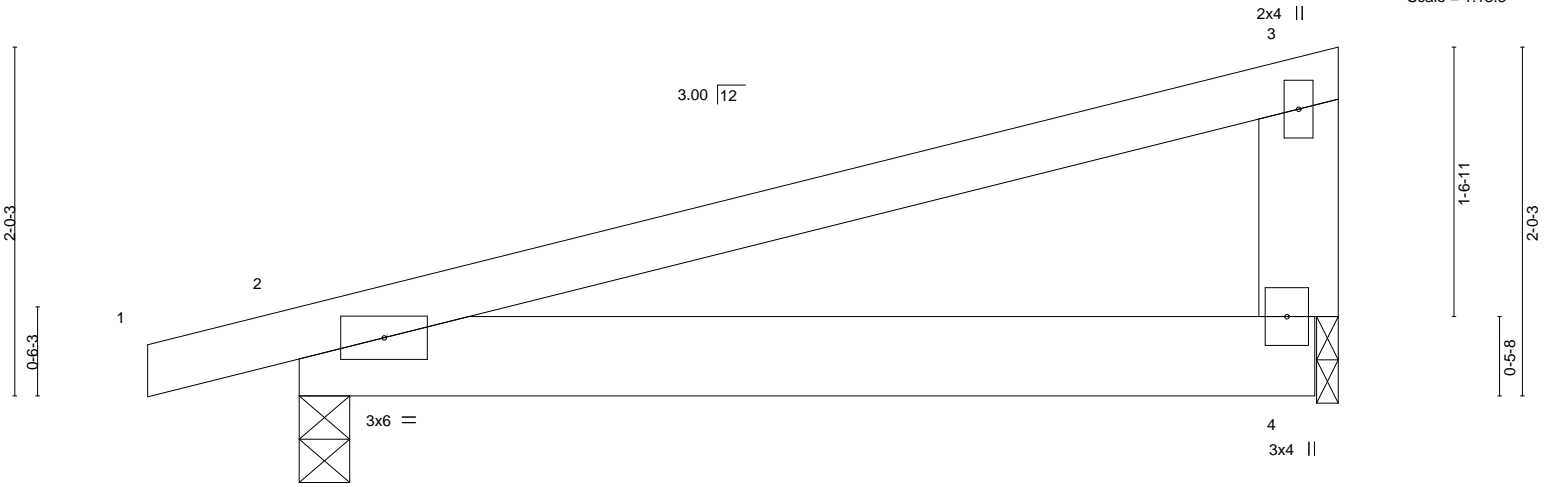
Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:01 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-w7rVl8cU1kK00gC3gX1SLXOQze0R?P9utUn1CrzldPC



Scale = 1:13.3



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 0.42	Vert(LL)	0.09	4-7	>814	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.42	Vert(CT)	-0.04	4-7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01	2	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS						
								Weight: 27 lb	FT = 20%

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

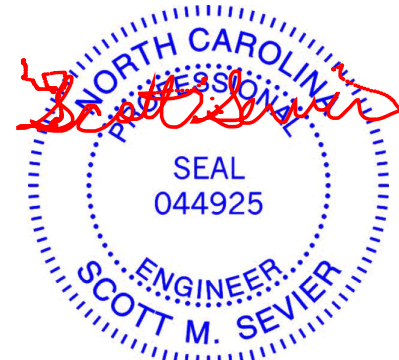
BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 2=287/0-3-8, 4=227/0-1-8
 Max Horz 2=120(LC 8)
 Max Uplift 2=-287(LC 8), 4=-236(LC 8)

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

NOTES-

- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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 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.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=287, 4=236.
- 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.



February 13, 2020

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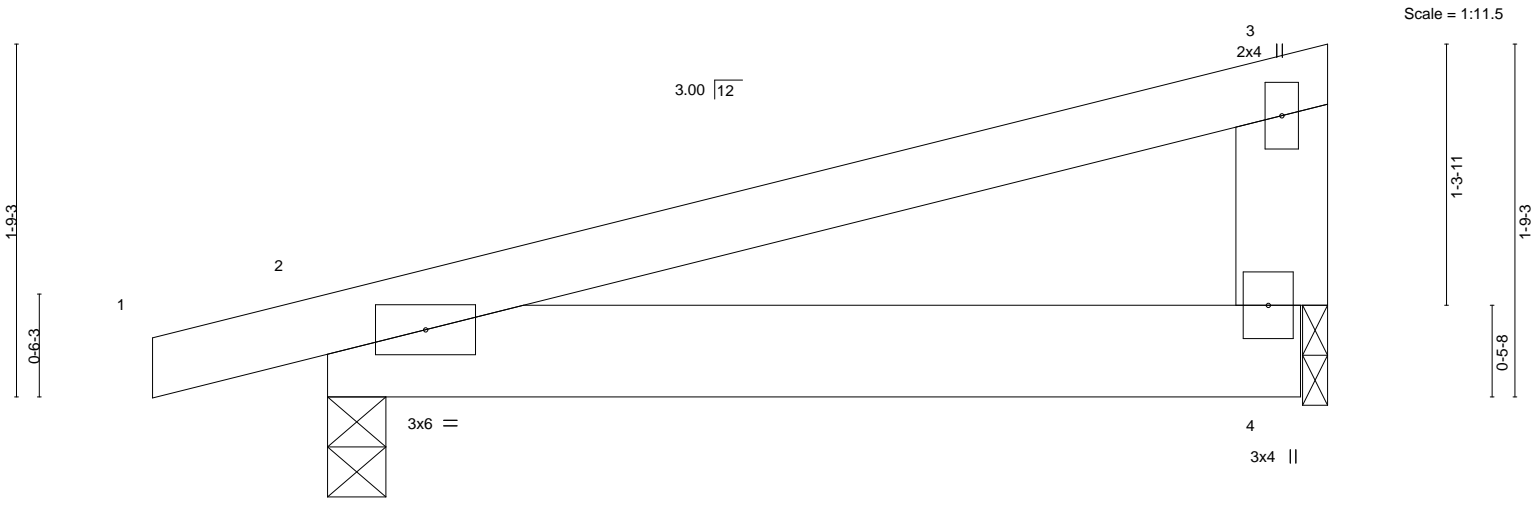
818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss D03	Truss Type Monopitch	Qty 45	Ply 1	H&H/Southport/ Job Reference (optional)	140248672
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:01 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-w7rVl8cU1kK00gC3gX1SLXOSBe2V?P9utUn1CrzldPC



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)	0.04 4-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.02 4-7	>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-AS					Weight: 23 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 2=248/0-3-8, 4=186/0-1-8
Max Horz 2=103(LC 8)
Max Uplift 2=-251(LC 8), 4=-194(LC 8)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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; porch 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 5) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=251, 4=194.
- 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.



February 13, 2020

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818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss D04	Truss Type Monopitch Supported Gable	Qty 15	Ply 1	H&H/Southport/ Job Reference (optional)	140248673
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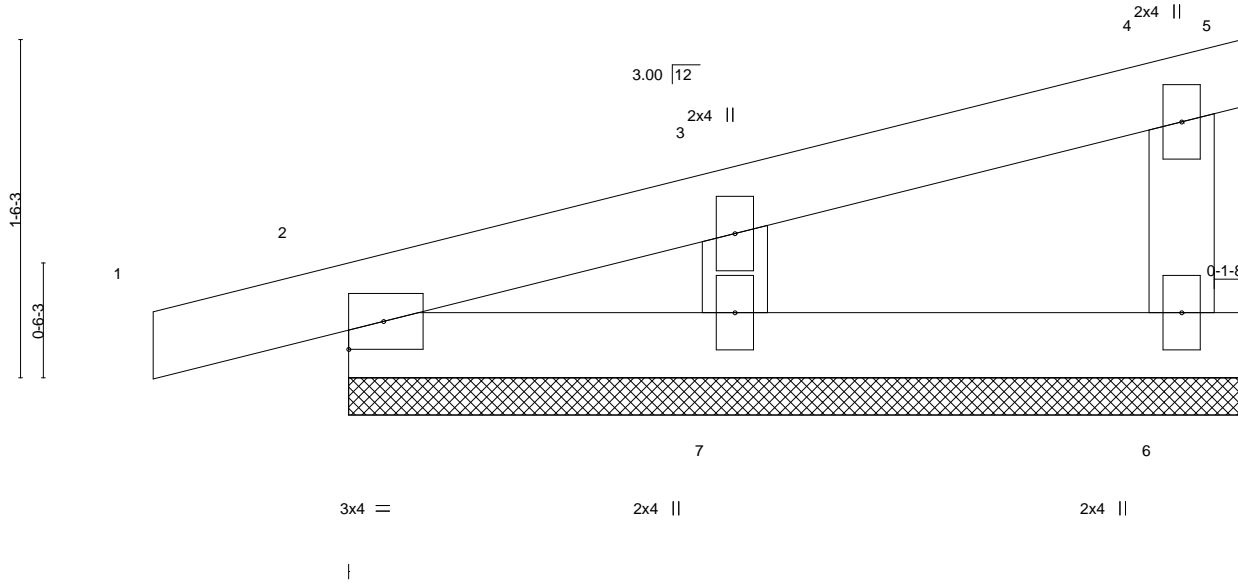
Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:02 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fzorLo-OKPtZUc7o2SteqmFEFZhtlwhE2SfkrN168WalHzldPB



Scale = 1:10.3



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 0.06	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	0.00	4	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 15 lb	FT = 20%

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

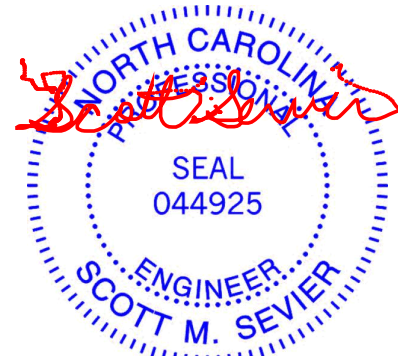
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=71/4-0-0, 2=118/4-0-0, 7=167/4-0-0
 Max Horz 2=86(LC 9)
 Max Uplift 6=-52(LC 8), 2=-104(LC 8), 7=-108(LC 12)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=104, 7=108.



February 13, 2020

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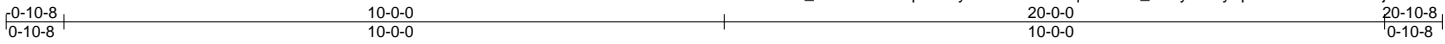


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Southport/	140248674
2227286	E01	Common Supported Gable	2	1		
Builders FirstSource, Sumter, SC - 29153,						Job Reference (optional)

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:03 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fzorLo-sWzGAqdLZLakF_LSoy4wQyTpaSnPTINBL0G8HjzldPA



Scale = 1:34.9

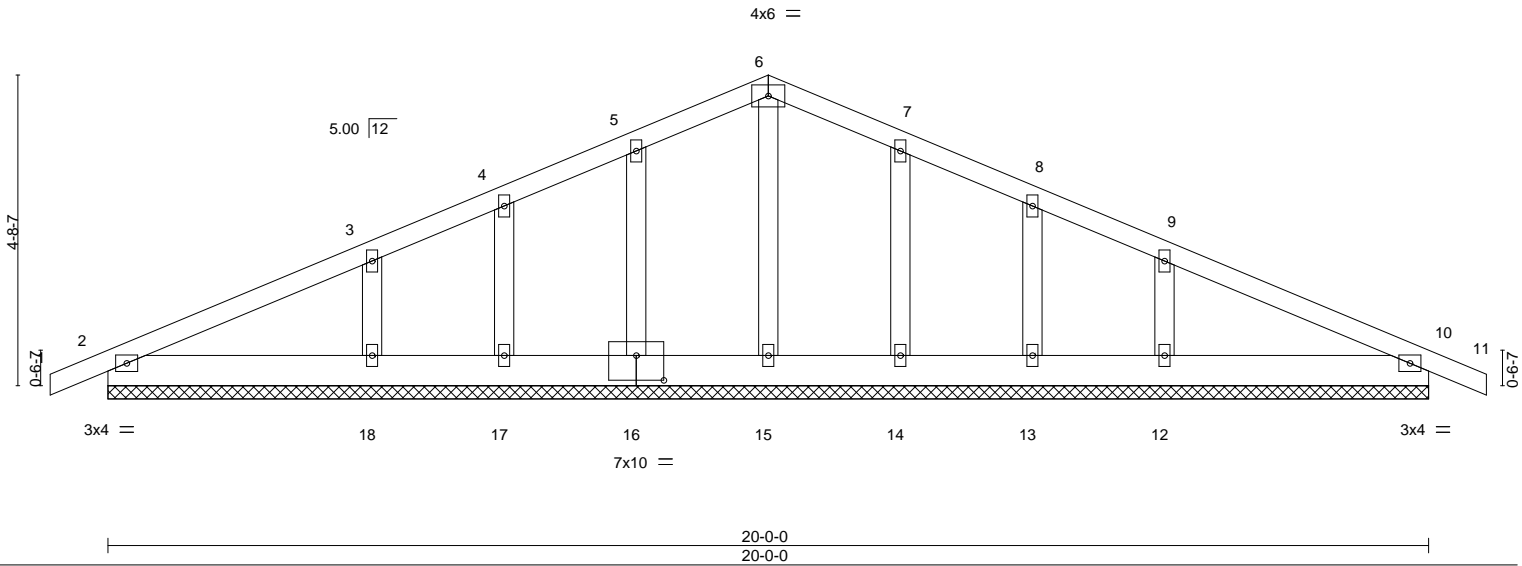


Plate Offsets (X,Y)--	[16:0-5-0,0-4-8]
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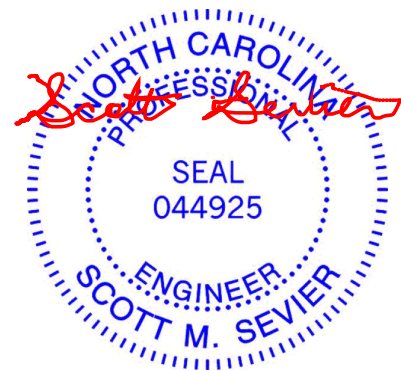
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	0.00	11	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	0.00	11	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 109 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 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 20-0-0.
 (lb) - Max Horz 2=136(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 17, 13, 10 except 16=133(LC 12), 18=233(LC 12), 14=132(LC 13), 12=231(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 15, 16, 17, 14, 13, 10 except 18=315(LC 23), 12=315(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-18=209/273, 9-12=209/273

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 17, 13, 10 except (jt=lb) 16=133, 18=233, 14=132, 12=231.



February 13, 2020

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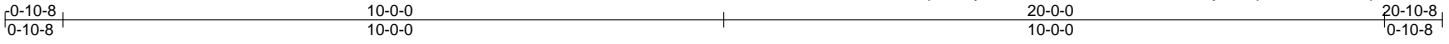
818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss E02	Truss Type Common	Qty 16	Ply 1	H&H/Southport/ Job Reference (optional)	140248675
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:04 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-KiWeOAeNKfibt7weLfb9yA?uqsxLCkUKZS?hp9zldP9



Scale = 1:34.9

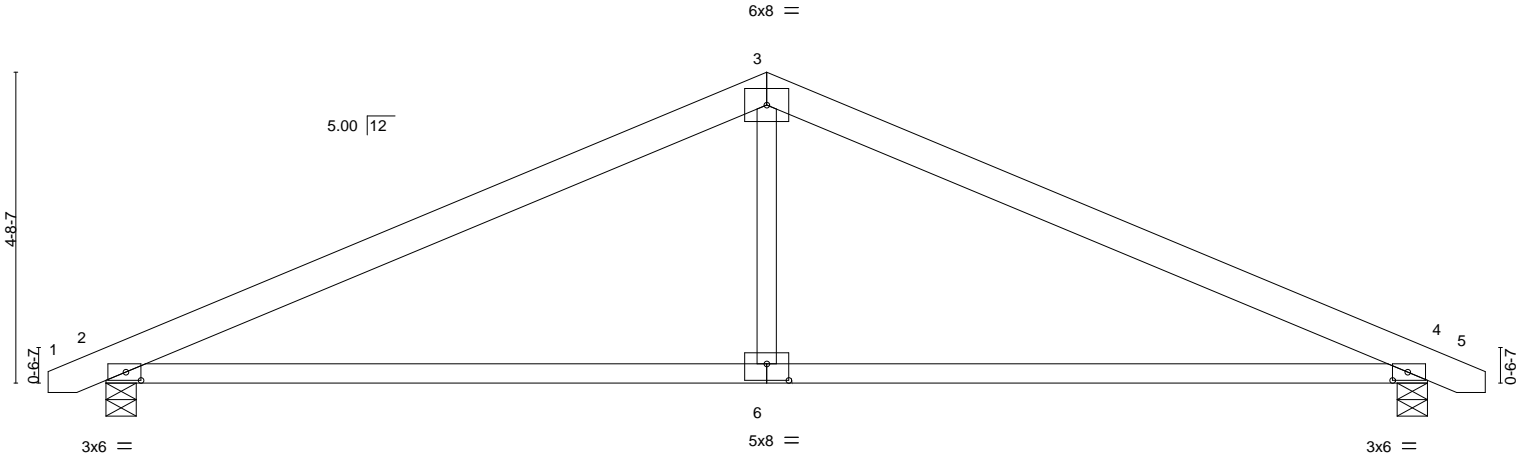


Plate Offsets (X,Y)--	[2:0-2-12,0-1-8], [4:0-2-12,0-1-8], [6:0-4-0,0-3-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.57	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.85	Vert(LL) -0.13 6-9 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Vert(CT) -0.29 6-9 >834 240		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Horz(CT) 0.02 4 n/a n/a		
			Wind(LL) 0.18 6-9 >999 240	Weight: 91 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.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 2=839/0-5-8, 4=840/0-5-8
 Max Horz 2=-133(LC 17)
 Max Uplift 2=-397(LC 12), 4=-397(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1241/818, 3-4=-1241/818
 BOT CHORD 2-6=-564/1085, 4-6=-564/1085
 WEBS 3-6=0/406

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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) 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.
 - 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=397, 4=397.
 - 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.



February 13, 2020

Job 2227286	Truss E03	Truss Type Common Girder	Qty 1	Ply 2	H&H/Southport/ Job Reference (optional)	140248676
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:06 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-H5eOosgdsGyl6R40T4dd2b5KGfmHgfTd1mUou2zldP7
14-8-10 20-0-0 20-10-8
4-8-10 5-3-6 0-10-8

Scale = 1:34.9

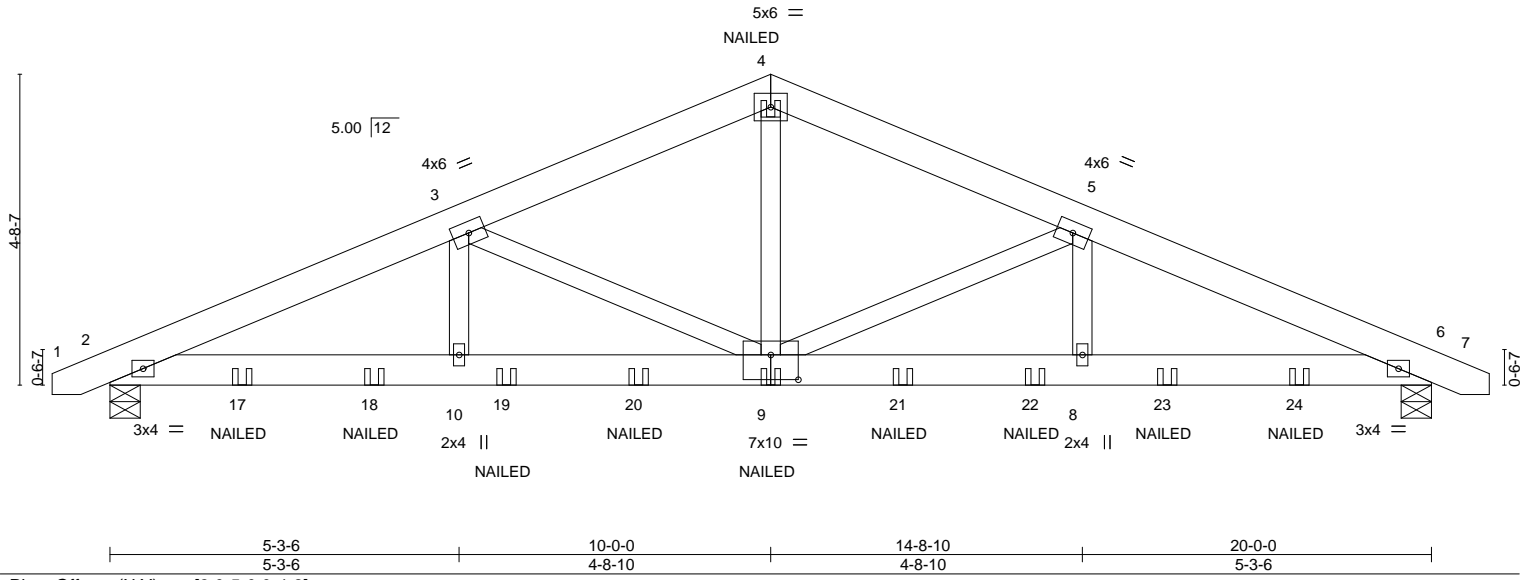


Plate Offsets (X,Y)--	[9:0-5-0,0-4-8]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.19	Vert(LL)	0.07	9-10	>999
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(CT)	-0.06	9-10	>999
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.12	Horz(CT)	-0.02	6	n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS				
							PLATES
							MT20
							GRIP
							244/190
							Weight: 255 lb
							FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
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) 2=1322/0-5-8, 6=1323/0-5-8
Max Horz 2=133(LC 27)
Max Uplift 2=-1025(LC 8), 6=-1025(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2528/2037, 3-4=-1770/1518, 4-5=-1770/1518, 5-6=-2528/2040
BOT CHORD 2-10=-1908/2310, 9-10=-1908/2310, 8-9=-1777/2309, 6-8=-1777/2309
WEBS 4-9=-810/1007, 5-9=-824/720, 5-8=-233/354, 3-9=-824/716, 3-10=-231/354

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 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=150mph (3-second gust) Vasd=119mph; 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
- 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.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1025, 6=1025.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 4-7=-60, 11-14=-20
Concentrated Loads (lb)
Vert: 9=-33(B) 4=-22(B) 17=-129(B) 18=-109(B) 19=-108(B) 20=-108(B) 21=-108(B) 22=-108(B) 23=-109(B) 24=-129(B)



February 13, 2020

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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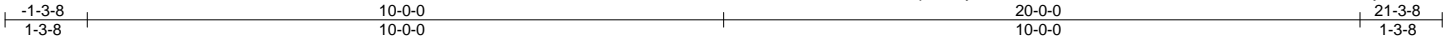
818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss E04	Truss Type Common Supported Gable	Qty 1	Ply 1	H&H/Southport/ Job Reference (optional)	140248677
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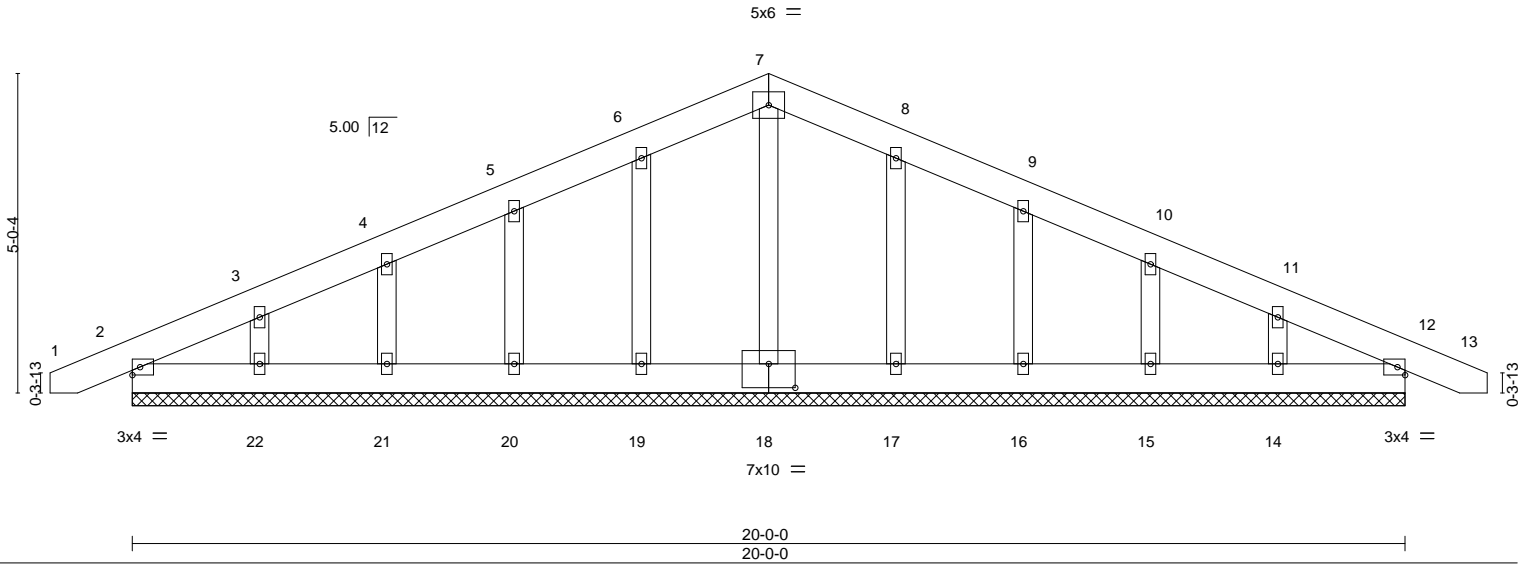
Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:08 2020 Page 1

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Scale = 1:36.2



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 0.04	Vert(LL)	-0.00	12	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	12	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 135 lb	FT = 20%

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

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

REACTIONS. All bearings 20-0-0.
(lb) - Max Horz 2=-138(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12 except 19=-112(LC 12), 20=-119(LC 12), 21=-115(LC 12),
22=-140(LC 12), 17=-108(LC 13), 16=-120(LC 13), 15=-114(LC 13), 14=-130(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 18, 19, 20, 21, 22, 17, 16, 15, 14, 12

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=150mph (3-second gust) Vasd=119mph; 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12 except (jt=lb) 19=112, 20=119, 21=115, 22=140, 17=108, 16=120, 15=114, 14=130.



February 13, 2020

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.



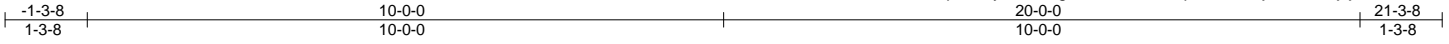
818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss E05	Truss Type Common	Qty 10	Ply 1	H&H/Southport/ Job Reference (optional)	140248678
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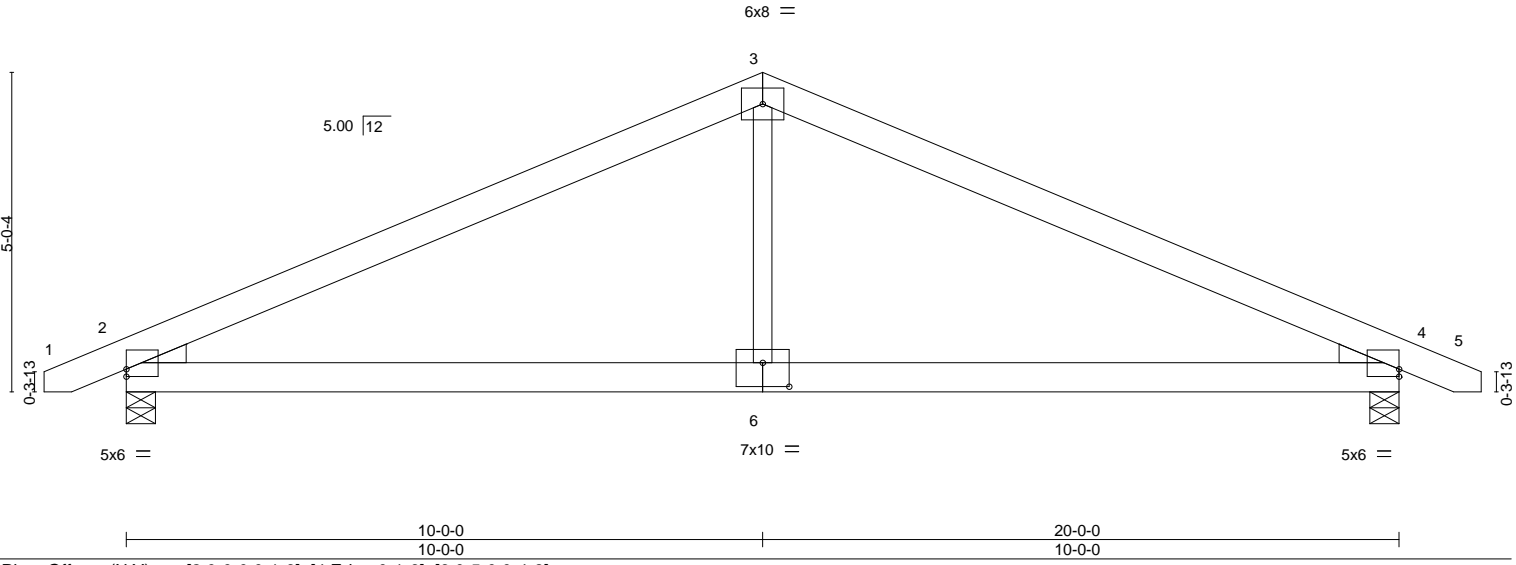
Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:09 2020 Page 1

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Scale = 1:36.2



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 0.45	Vert(LL)	-0.05	6-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.43	Vert(CT)	-0.11	6-9	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	-0.02	2	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.09	6-9	>999	Weight: 113 lb	FT = 20%

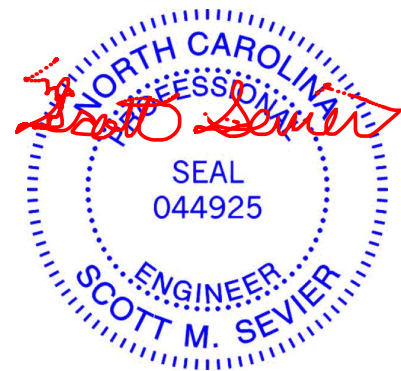
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

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

REACTIONS. (lb/size) 2=865/0-5-8, 4=865/0-5-8
Max Horz 2=-138(LC 17)
Max Uplift 2=-416(LC 12), 4=-416(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1201/780, 3-4=-1201/780
BOT CHORD 2-6=-508/1006, 4-6=-508/1006
WEBS 3-6=0/427

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDFL=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.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=416, 4=416.
 - 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.



February 13, 2020

Job 2227286	Truss E06	Truss Type Common Girder	Qty 1	Ply 2	H&H/Southport/ Job Reference (optional)	140248679
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:10 2020 Page 1

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Scale = 1:36.4

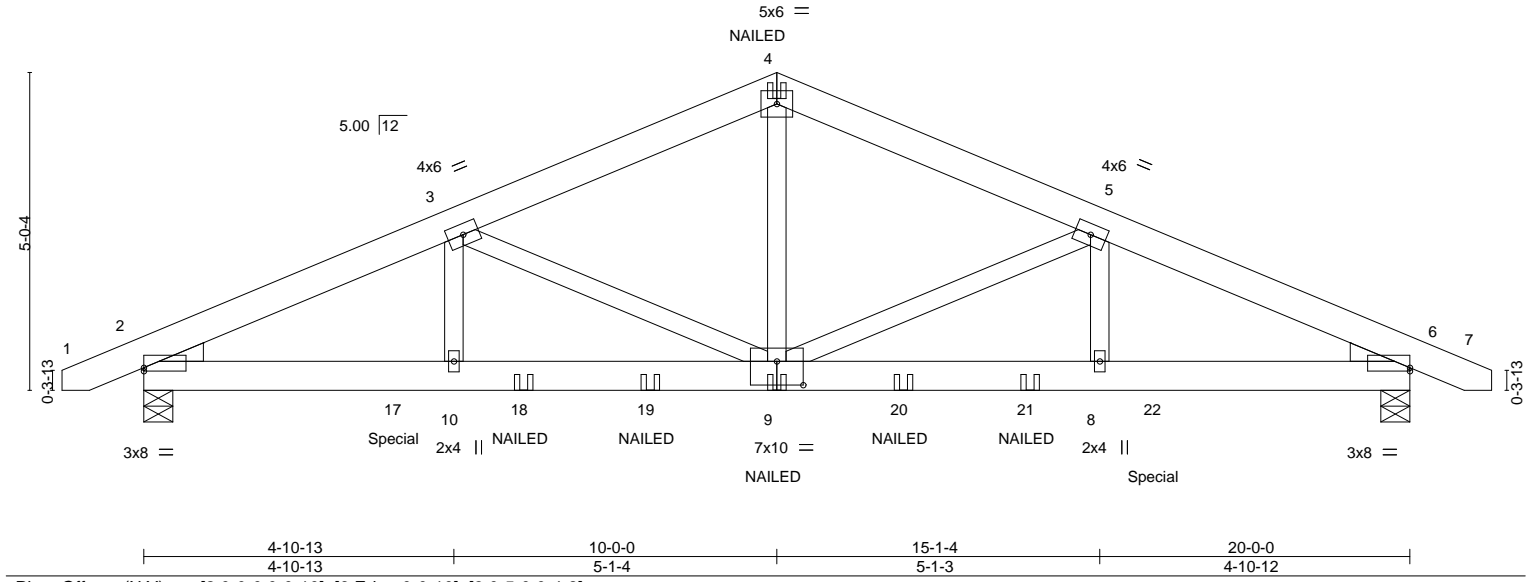


Plate Offsets (X,Y)--	[2:0-0,0-0,0-10], [6:Edge,0-0-10], [9:0-5-0,0-4-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.25	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.34	Vert(LL) 0.08 9-10 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.10	Vert(CT) -0.06 9-10 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) -0.02 6 n/a n/a		
	Code IRC2015/TPI2014			Weight: 268 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

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

REACTIONS. (lb/size) 2=1263/0-5-8, 6=1264/0-5-8
Max Horz 2=-138(LC 13)
Max Uplift 2=-1082(LC 8), 6=-1083(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2157/1956, 3-4=-1582/1579, 4-5=-1582/1579, 5-6=-2157/1958
BOT CHORD 2-10=-1809/1913, 9-10=-1809/1913, 8-9=-1673/1913, 6-8=-1673/1913
WEBS 4-9=-810/809, 5-9=-583/540, 5-8=-199/294, 3-9=-583/537, 3-10=-199/294

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 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=150mph (3-second gust) Vasd=119mph; 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
 - 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.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1082, 6=1083.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 212 lb down and 228 lb up at 4-0-0, and 212 lb down and 228 lb up at 16-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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



Continued on page 2

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H/Southport/
2227286	E06	Common Girder	1	2	I40248679 Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:10 2020 Page 2
ID:oMYUFR_W5RnH0V88pNA3fzorLo-9suveDj8wVSkb2OoiwiZCRF?GH6ncSqDyOS?1pzldP3

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 11-14=-20

Concentrated Loads (lb)

Vert: 9=-12(B) 4=-14(B) 17=-212(B) 18=-87(B) 19=-87(B) 20=-87(B) 21=-87(B) 22=-212(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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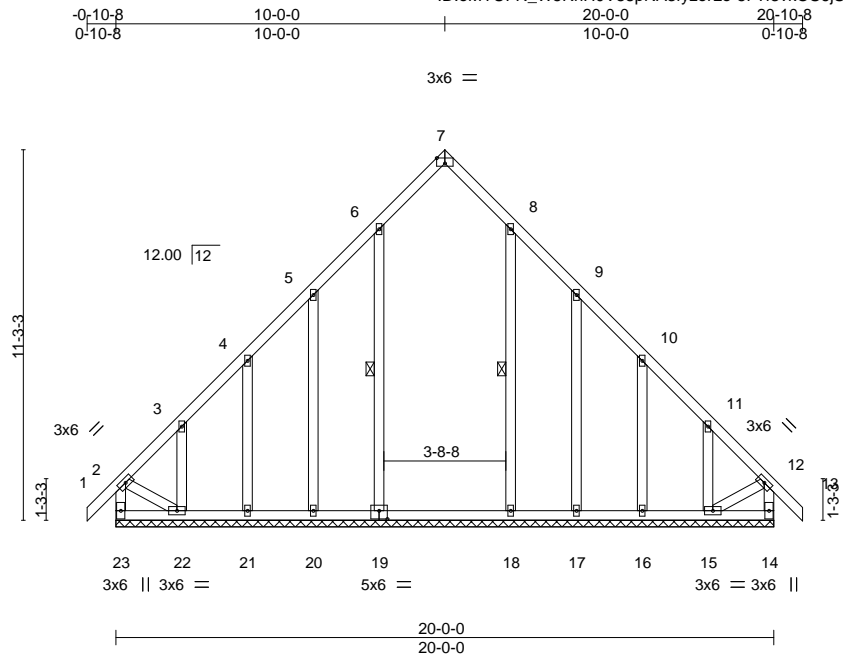


818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss G01	Truss Type GABLE	Qty 6	Ply 1	H&H/Southport/ Job Reference (optional)	140248680
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:12 2020 Page 1
ID:oMYUFR_W5RnH0V88pNA3fyzorLo-5F?3vkOS6jSqMXApLk1HsLLw4rG4KzWPix65zldP1



Scale = 1:70.0

Plate Offsets (X,Y)--	[7:0-3-0,Edge], [19:0-3-0,0-3-0]				
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 0.24	Vert(LL) -0.00 13 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.15	Vert(CT) -0.00 13 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.25	Horz(CT) 0.02 14 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 152 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-19, 8-18

REACTIONS.

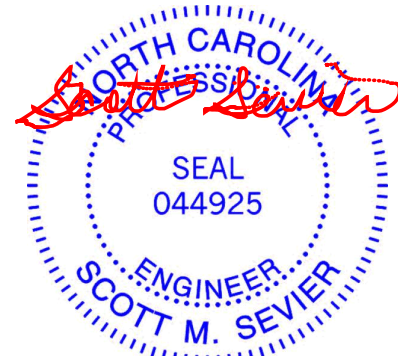
All bearings 20-0-0.
(lb) - Max Horz 23=552(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) except 23=-264(LC 10), 14=-246(LC 11), 19=-181(LC 12), 20=-255(LC 12), 21=-226(LC 12), 22=-560(LC 12), 18=-173(LC 13), 17=-258(LC 13), 16=-226(LC 13), 15=-556(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 20, 21, 17, 16 except 23=750(LC 12), 14=741(LC 13), 19=345(LC 19), 22=329(LC 10), 18=332(LC 20), 15=320(LC 11)

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

TOP CHORD 2-23=-732/520, 2-3=-716/505, 3-4=-530/349, 4-5=-334/194, 9-10=-327/195, 10-11=-523/344, 11-12=-708/511, 12-14=-725/526
BOT CHORD 22-23=-518/511, 21-22=-490/617, 20-21=-490/617, 19-20=-490/617, 18-19=-490/617, 17-18=-490/617, 16-17=-490/617, 15-16=-490/617
WEBS 5-20=-278/271, 4-21=-259/254, 3-22=-274/241, 9-17=-276/274, 10-16=-259/254, 11-15=-276/239, 2-22=-510/673, 12-15=-510/672

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 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.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 264 lb uplift at joint 23, 246 lb uplift at joint 14, 181 lb uplift at joint 19, 255 lb uplift at joint 20, 226 lb uplift at joint 21, 560 lb uplift at joint 22, 173 lb uplift at joint 18, 258 lb uplift at joint 17, 226 lb uplift at joint 16 and 556 lb uplift at joint 15.



February 13, 2020

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.



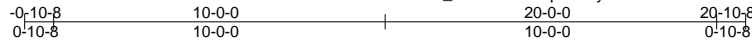
818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss G02	Truss Type Common	Qty 27	Ply 1	H&H/Southport/ Job Reference (optional)	140248681
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:13 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-aRZ2GF10DQrJSW6NN2FGq3tNoU?Bpk2feMhfe8zldP0



5x8 ||

Scale = 1:69.5

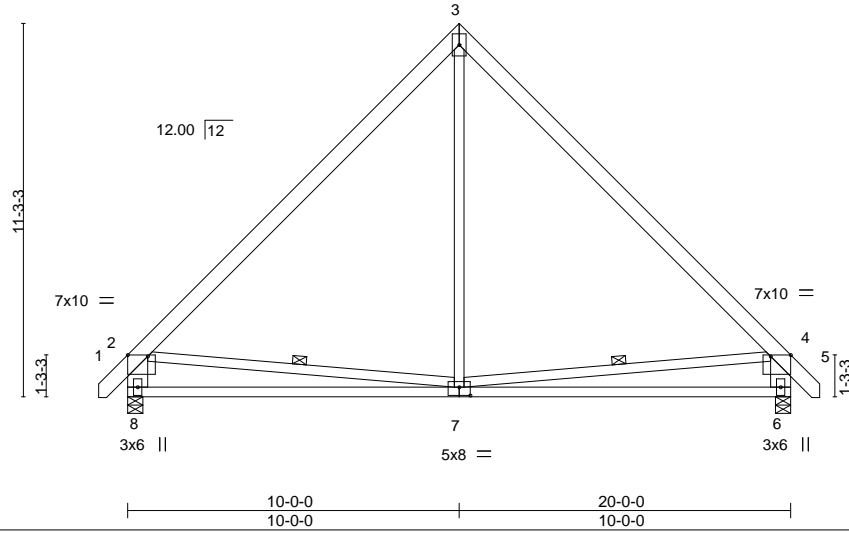


Plate Offsets (X,Y)-- [2:0-7-4,Edge], [4:0-7-4,Edge], [7:0-4-0,0-3-0]

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 0.81	Vert(LL)	-0.17	7-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.34	6-7	>692	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.39	Horz(CT)	-0.03	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.03	7-8	>999	240	Weight: 152 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 2-8,4-6: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 5-4-1 oc bracing.
 WEBS 1 Row at midpt 2-7, 4-7

REACTIONS.

(lb/size) 8=839/0-5-8, 6=839/0-5-8
 Max Horz 8=-549(LC 10)
 Max Uplift 8=-331(LC 12), 6=-331(LC 13)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-826/434, 3-4=-826/434, 2-8=-899/553, 4-6=-899/553
 BOT CHORD 7-8=-1156/1144, 6-7=-912/1092
 WEBS 3-7=-87/432, 2-7=-814/1161, 4-7=-826/1176

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 331 lb uplift at joint 8 and 331 lb uplift at joint 6.



February 13, 2020

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.



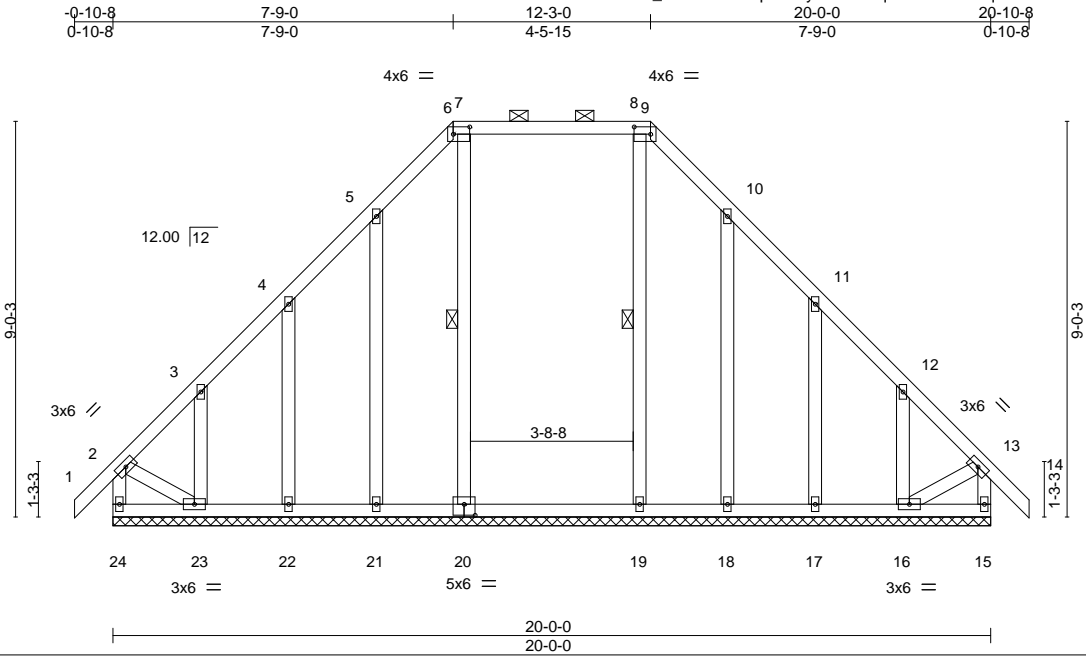
818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss G04	Truss Type GABLE	Qty 3	Ply 1	H&H/Southport/ Job Reference (optional)	140248682
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:15 2020 Page 1

ID: oMYUFR_W5RnH0V88pNA3fyzorLo-WqhohxnGk151iqGIVTHkvUztyls6HhTy5gAmi1zldP_



Scale = 1:52.5

Plate Offsets (X,Y)--	[6:0-0-0,0-1-12], [6:0-4-8,0-2-0], [7:0-1-12,0-0-0], [8:0-1-12,0-0-0], [9:0-4-8,0-2-0], [9:0-0-0,0-1-12], [20:0-3-0,0-3-0]
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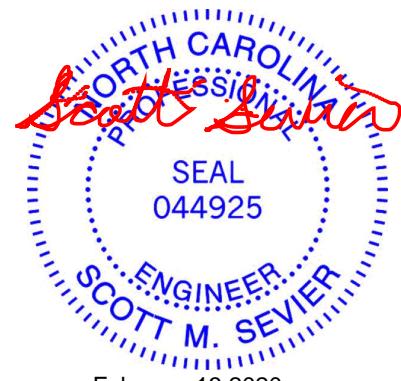
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.19	Vert(LL)	-0.00	14	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	-0.00	14	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.20	Horz(CT)	0.01	15	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 148 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 (6-0-0 max.): 6-9.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 7-20, 8-19
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 20-0-0.
 (lb) - Max Horz 24=-455(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 19 except 24=-227(LC 10), 15=-115(LC 11), 20=-136(LC 9), 21=-208(LC 12), 22=-242(LC 12), 23=-415(LC 12), 18=-204(LC 13), 17=-244(LC 13), 16=-396(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 21, 22, 18, 17 except 24=381(LC 9), 15=314(LC 13), 20=369(LC 22), 23=316(LC 10), 19=347(LC 21), 16=274(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-24=-365/237, 2-3=-368/270, 5-6=-275/299, 6-7=-241/279, 7-8=-241/279, 8-9=-241/279, 9-10=-275/299, 12-13=-323/249, 13-15=-301/237
 BOT CHORD 23-24=-423/416, 22-23=-279/343, 21-22=-279/343, 20-21=-279/343, 19-20=-279/343, 18-19=-279/343, 17-18=-279/343, 16-17=-279/343
 WEBS 4-22=-275/269, 3-23=-270/236, 11-17=-277/271, 12-16=-272/235, 2-23=-303/398, 13-16=-274/367

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19 except (jt=lb) 24=227, 15=115, 20=136, 21=208, 22=242, 23=415, 18=204, 17=244, 16=396.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 13, 2020

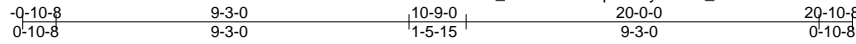
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 2227286	Truss G05	Truss Type Hip	Qty 3	Ply 1	H&H/Southport/ 140248683
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Builders FirstSource, Sumter, SC - 29153,

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ID:oMYUFR_W5RnH0V88pNA3fyzorLo-_0FAvHnvVLDuJzrx2BpzRiVvgh1w06Q5KKwKDTzldOz



Scale = 1:60.4

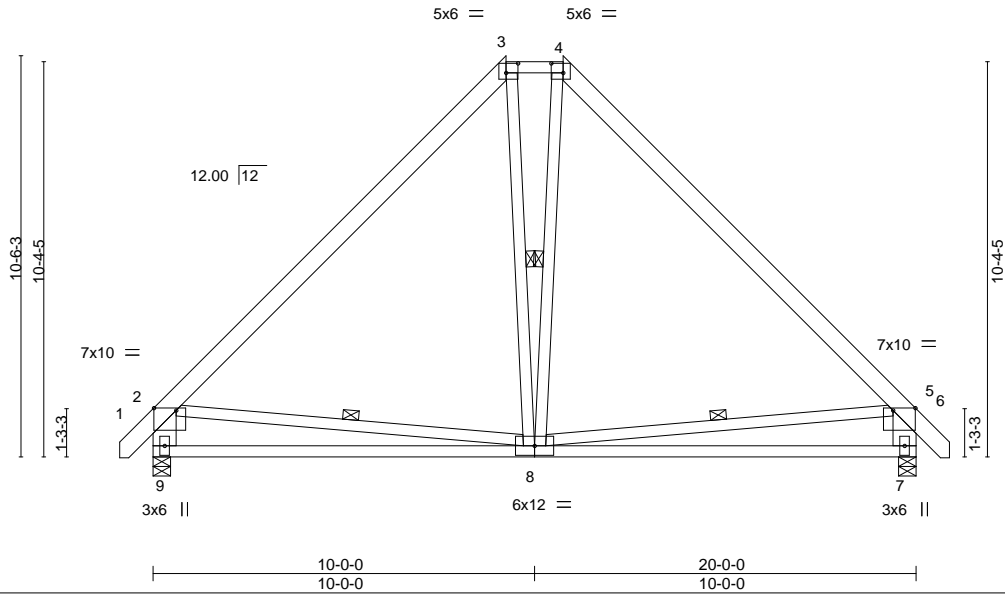


Plate Offsets (X,Y)--	[2:0-7-0,Edge], [3:0-3-12,0-3-0], [4:0-3-12,0-3-0], [5:0-7-0,Edge]
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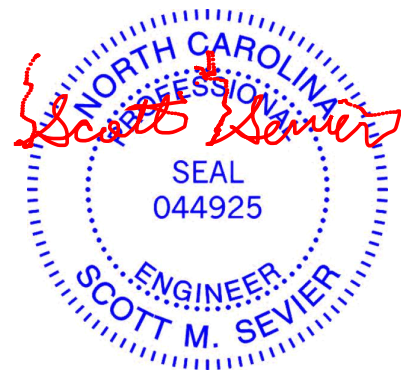
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.70	Vert(LL)	-0.17	7-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.33	7-8	>697		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.35	Horz(CT)	-0.03	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.02	8-9	>999		
								Weight: 162 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 or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-6-9 max.): 3-4.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-8-12 oc bracing.
WEBS 2x4 SP No.3 *Except* 2-9,5-7: 2x8 SP DSS	WEBS 1 Row at midpt 3-8, 4-8, 2-8, 5-8

REACTIONS. (lb/size) 9=839/0-5-8, 7=839/0-5-8
 Max Horz 9=-517(LC 10)
 Max Uplift 9=-331(LC 12), 7=-331(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-795/435, 3-4=-736/540, 4-5=-795/435, 2-9=-874/557, 5-7=-874/557
 BOT CHORD 8-9=-1008/1068, 7-8=-784/1015
 WEBS 3-8=-262/425, 4-8=-260/422, 2-8=-748/1009, 5-8=-760/1023

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=331, 7=331.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 13, 2020

<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>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 2227286	Truss G06	Truss Type Common	Qty 3	Ply 1	H&H/Southport/ Job Reference (optional)	140248684
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:17 2020 Page 1
ID:oMYUFR_W5RnH0V88pNA3fyzorLo-SCpY6doXGfLkx7Q8cuKC_v2Ag5NKlbnFZ_ftmvzldOy

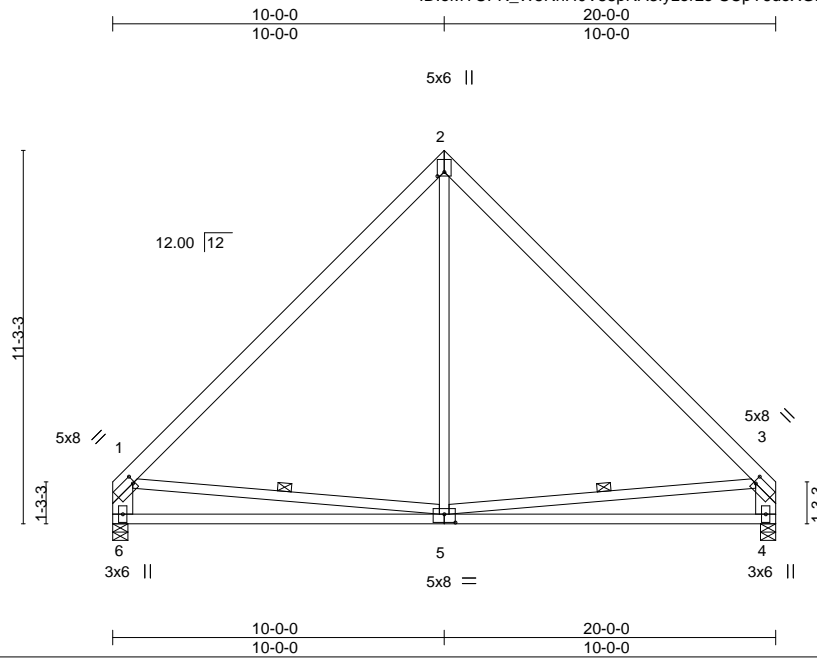


Plate Offsets (X,Y)--	[1:0-0-12,0-2-12], [2:0-1-8,0-2-8], [3:0-0-12,0-2-12], [5:0-4-0,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.37	Vert(LL)	-0.17	4-5	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.86	Vert(CT)	-0.33	4-5	>696		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.21	Horz(CT)	-0.02	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.02	5-6	>999		
								Weight: 147 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP DSS	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-8-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 1-6,3-4: 2x8 SP DSS	WEBS 1 Row at midpt 1-5, 3-5

REACTIONS. (lb/size) 6=776/0-5-8, 4=776/0-5-8
Max Horz 6=-502(LC 8)
Max Uplift 6=-310(LC 13), 4=-310(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-799/407, 2-3=-799/407, 1-6=-835/458, 3-4=-835/458
BOT CHORD 5-6=-746/864, 4-5=-529/633
WEBS 2-5=0/418, 1-5=-427/708, 3-5=-451/719

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
 - 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.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=310, 4=310.



February 13, 2020

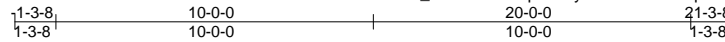
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 2227286	Truss G07	Truss Type GABLE	Qty 3	Ply 1	H&H/Southport/ Job Reference (optional)	140248685
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Builders FirstSource, Sumter, SC - 29153,

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ID:oMYUFR_W5RnH0V88pNA3fyzorLo-ObwJXlqnoGbSARaWkJMg3K7W1vDuDUAY0i8_qozldOw



3x6 =

Scale = 1:72.6

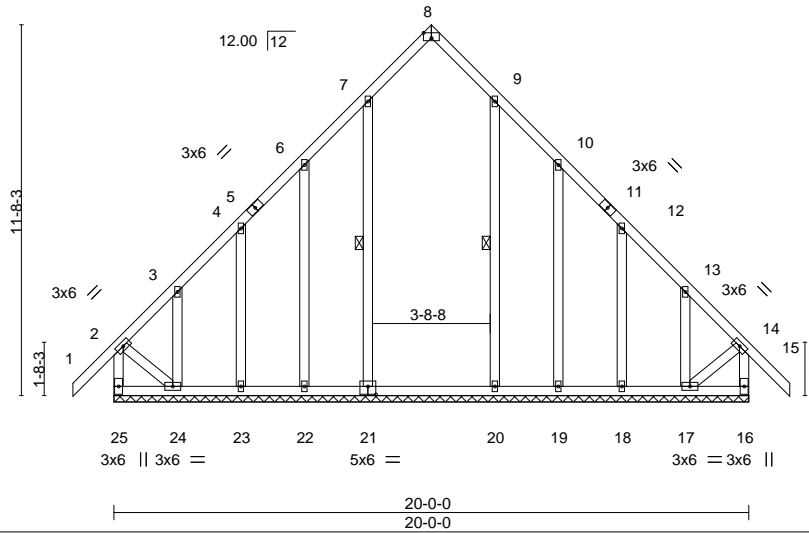


Plate Offsets (X,Y)--	[8:0-3-0,Edge], [21:0-3-0,0-3-0]				
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.31	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.15	Vert(LL) -0.01 15 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.28	Vert(CT) -0.01 15 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 16 n/a n/a		
	Code IRC2015/TPI2014			Weight: 161 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 7-21, 9-20

REACTIONS.

All bearings 20-0-0.
 (lb) - Max Horz 25=-597(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) except 25=-307(LC 10), 16=-286(LC 11), 21=-175(LC 12), 22=-256(LC 12), 23=-232(LC 12), 24=-671(LC 12), 20=-167(LC 13), 19=-259(LC 13), 18=-232(LC 13), 17=-667(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 22, 23, 19, 18 except 25=843(LC 12), 16=834(LC 13), 21=346(LC 19), 24=384(LC 10), 20=333(LC 20), 17=373(LC 11)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-25=-824/599, 2-3=-696/512, 3-4=-529/349, 4-6=-328/190, 10-12=-321/192, 12-13=-522/342, 13-14=-688/519, 14-16=-816/607
 BOT CHORD 24-25=-563/544, 23-24=-527/661, 22-23=-527/661, 21-22=-527/661, 20-21=-527/661, 19-20=-527/661, 18-19=-527/661, 17-18=-527/661
 WEBS 6-22=-281/272, 4-23=-265/260, 3-24=-294/214, 10-19=-277/275, 12-18=-265/260, 13-17=-295/213, 2-24=-586/756, 14-17=-582/753

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 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.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 307 lb uplift at joint 25, 286 lb uplift at joint 16, 175 lb uplift at joint 21, 256 lb uplift at joint 22, 232 lb uplift at joint 23, 671 lb uplift at joint 24, 167 lb uplift at joint 20, 259 lb uplift at joint 19, 232 lb uplift at joint 18 and 667 lb uplift at joint 17.



February 13, 2020

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.



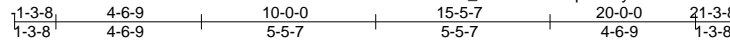
818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss G08	Truss Type Common	Qty 17	Ply 1	H&H/Southport/ Job Reference (optional)	140248686
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:20 2020 Page 1

ID: oMYUFR_W5RnH0V88pNA3fyzorLo-snUhkeqPZajJob9jH0tvcYgcHJN0yxrhF XuXMEzldOv



4x6 =

Scale = 1:72.0

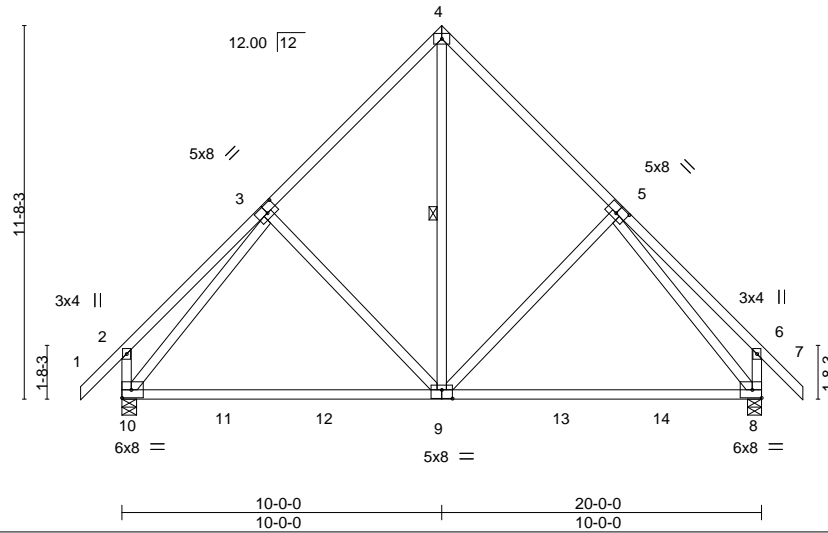


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [5:0-4-0,0-3-0], [9:0-4-0,0-3-4]

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 0.60	Vert(LL)	-0.20	8-9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.92	Vert(CT)	-0.39	8-9	>604	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.70	Horz(CT)	0.02	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.03	9	>999	240		
									Weight: 141 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-5 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
 WEBS 1 Row at midpt 4-9

REACTIONS.

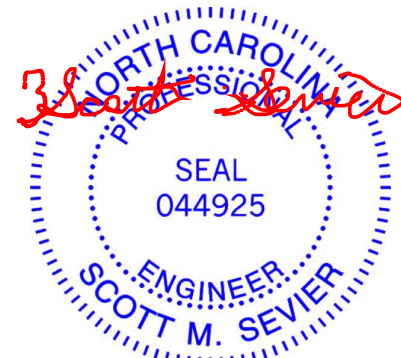
(lb/size) 10=875/0-5-8, 8=875/0-5-4
 Max Horz 10=-597(LC 10)
 Max Uplift 10=-349(LC 12), 8=-349(LC 13)

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

TOP CHORD 2-3=-412/333, 3-4=-891/560, 4-5=-891/560, 5-6=-412/333, 2-10=-503/403, 6-8=-502/403
 BOT CHORD 9-10=-343/781, 8-9=-104/608
 WEBS 4-9=-481/813, 5-9=-416/490, 3-9=-415/490, 3-10=-722/240, 5-8=-721/239

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
- 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.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 349 lb uplift at joint 10 and 349 lb uplift at joint 8.



February 13, 2020

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.

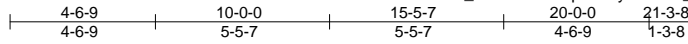


818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss G09	Truss Type Common	Qty 2	Ply 1	H&H/Southport/ Job Reference (optional)	140248687
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:21 2020 Page 1
ID:oMYUFR_W5RnH0V88pNA3fyzorLo-L_23y_r1KtrAQIjvrkO88IDlfikxhIPqUbd4vgzldOu



4x6 =

Scale = 1:72.1

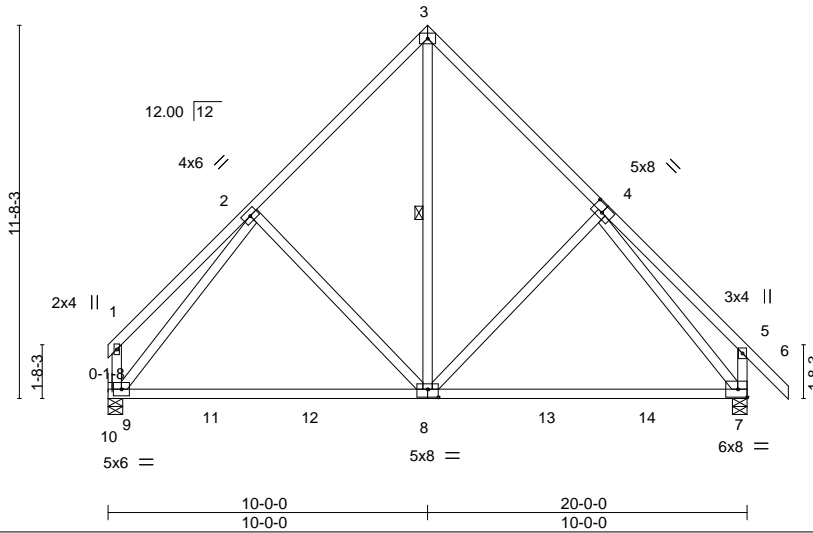


Plate Offsets (X,Y)-- [4:0-4-0,0-3-0], [8:0-4-0,0-3-0]

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 0.75	Vert(LL)	-0.21	7-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.88	Vert(CT)	-0.42	7-8	>562		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.68	Horz(CT)	0.02	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.03	8	>999		
								Weight: 139 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-0-9 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 9-10-10 oc bracing.
 WEBS 1 Row at midpt 3-8

REACTIONS. (lb/size) 9=786/0-5-8, 7=873/0-5-8
 Max Horz 9=-534(LC 8)
 Max Uplift 9=-319(LC 13), 7=-344(LC 13)
 Max Grav 9=831(LC 20), 7=873(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-303/149, 2-3=-884/557, 3-4=-884/558, 4-5=-415/332, 1-9=-311/174, 5-7=-505/401
 BOT CHORD 8-9=-337/778, 7-8=-103/601
 WEBS 3-8=-478/802, 4-8=-416/491, 2-8=-404/484, 2-9=-649/361, 4-7=-707/239

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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 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, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 319 lb uplift at joint 9 and 344 lb uplift at joint 7.



February 13, 2020

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 2227286	Truss G10	Truss Type GABLE	Qty 3	Ply 1	H&H/Southport/ 140248688
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:23 2020 Page 1

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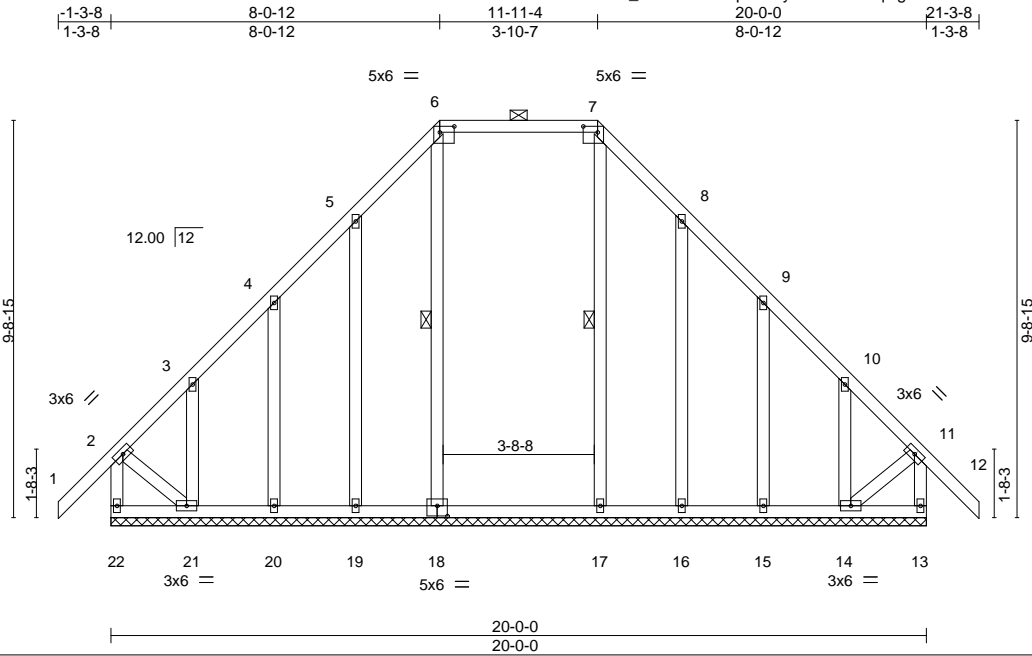


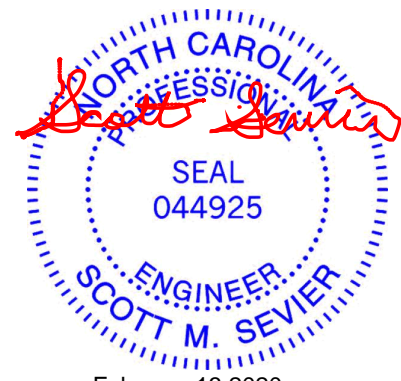
Plate Offsets (X,Y)--	[6:0-4-4,0-1-12], [7:0-4-4,0-1-12], [18:0-3-0,0-3-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/def L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.31	Vert(LL) -0.01 12 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.14	Vert(CT) -0.01 12 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.27	Horz(CT) 0.01 13 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 158 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 (6-0-0 max.): 6-7.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 21-22,13-14.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-18, 7-17
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 20-0-0.
 (lb) - Max Horz 22=513(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 18, 17 except 22=331(LC 8), 13=201(LC 9), 19=250(LC 12), 20=236(LC 12), 21=457(LC 12), 16=249(LC 13), 15=237(LC 13), 14=432(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 19, 20, 16, 15 except 22=401(LC 20), 13=330(LC 22), 18=365(LC 22), 21=391(LC 10), 17=342(LC 21), 14=326(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-22=-380/337, 2-3=-316/306, 3-4=-214/251, 5-6=-354/410, 6-7=-293/352, 7-8=-354/410, 10-11=-272/225, 11-13=-312/236
 BOT CHORD 21-22=-479/460, 20-21=-283/336, 19-20=-283/336, 18-19=-283/336, 17-18=-284/337, 16-17=-283/336, 15-16=-283/336, 14-15=-283/336
 WEBS 5-19=-269/266, 4-20=-269/264, 3-21=-293/213, 8-16=-270/265, 9-15=-270/265, 10-14=-294/212, 2-21=-352/419, 11-14=-276/383

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 17 except (jt=lb) 22=331, 13=201, 19=250, 20=236, 21=457, 16=249, 15=237, 14=432.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

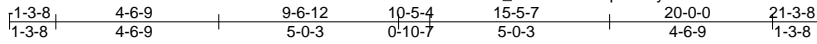


Job 2227286	Truss G11	Truss Type Hip	Qty 3	Ply 1	H&H/Southport/ Job Reference (optional)	140248689
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:24 2020 Page 1

ID: oMYUFR_W5RnHOV88pNA3fyzorLo-IzkCa0uwoDIHCSUWsymOqJdwkufiHAZslV?zldOr



Scale: 3/16"=1'

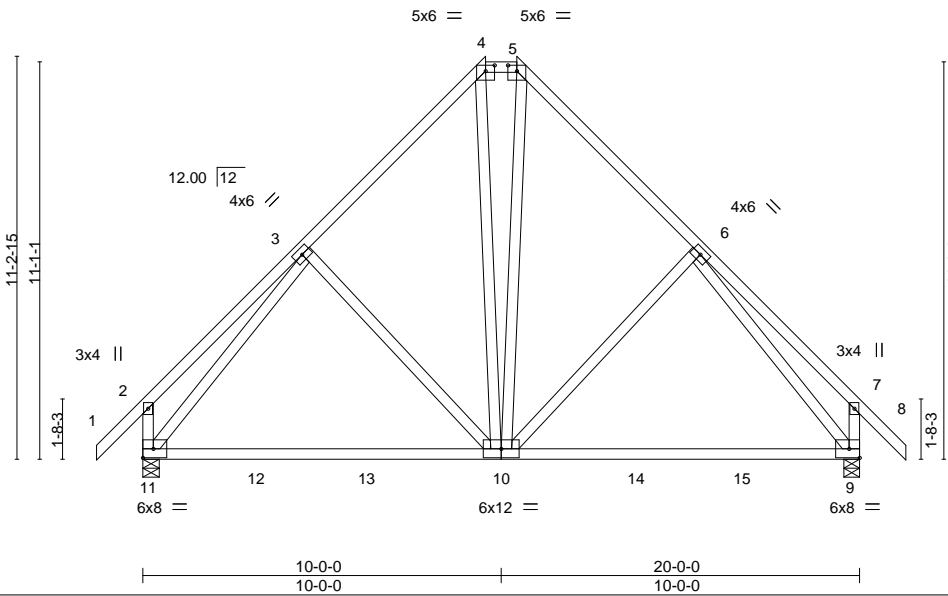


Plate Offsets (X,Y)--	[4:0-3-0,0-1-15], [5:0-3-0,0-1-15]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.51	Vert(LL)	-0.20	10-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.92	Vert(CT)	-0.39	10-11	>608		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.68	Horz(CT)	0.02	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.02	10	>999		
								Weight: 155 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-5-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 11=875/0-5-8, 9=875/0-5-4
 Max Horz 11=575(LC 11)
 Max Uplift 11=-351(LC 12), 9=-351(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-419/340, 3-4=-866/551, 4-5=-730/539, 5-6=-866/551, 6-7=-419/340,
 2-11=-509/410, 7-9=-509/410
 BOT CHORD 10-11=-342/752, 9-10=-102/594
 WEBS 3-10=-390/458, 4-10=-298/391, 5-10=-298/391, 3-11=-696/229, 6-10=-390/458,
 6-9=-698/229

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=351, 9=351.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 13, 2020

<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>ENGINEERING BY TRENCO <small>A MiTek Affiliate</small></p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 2227286	Truss J01	Truss Type Jack-Open	Qty 6	Ply 1	H&H/Southport/ Job Reference (optional)	140248690
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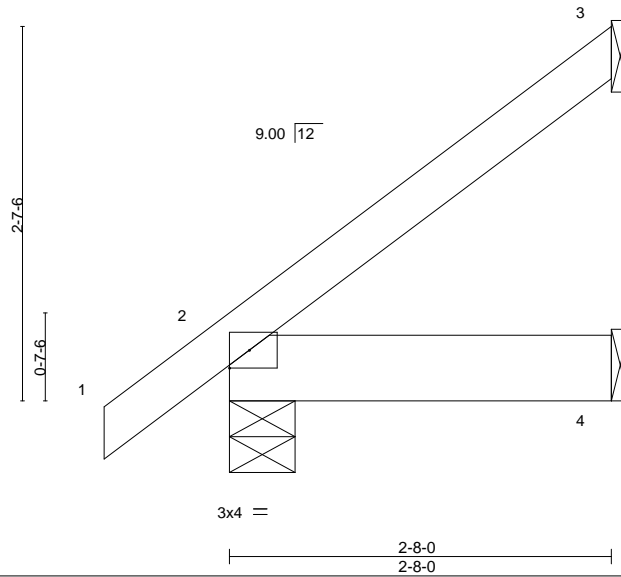
Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:25 2020 Page 1

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Scale: 3/4"=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 0.11	Vert(LL)	0.00	7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	-0.00	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: 13 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=58/Mechanical, 2=165/0-5-8, 4=37/Mechanical
Max Horz 2=175(LC 12)
Max Uplift 3=-93(LC 12), 2=-48(LC 12), 4=-19(LC 12)
Max Grav 3=77(LC 19), 2=165(LC 1), 4=54(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.



February 13, 2020

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.



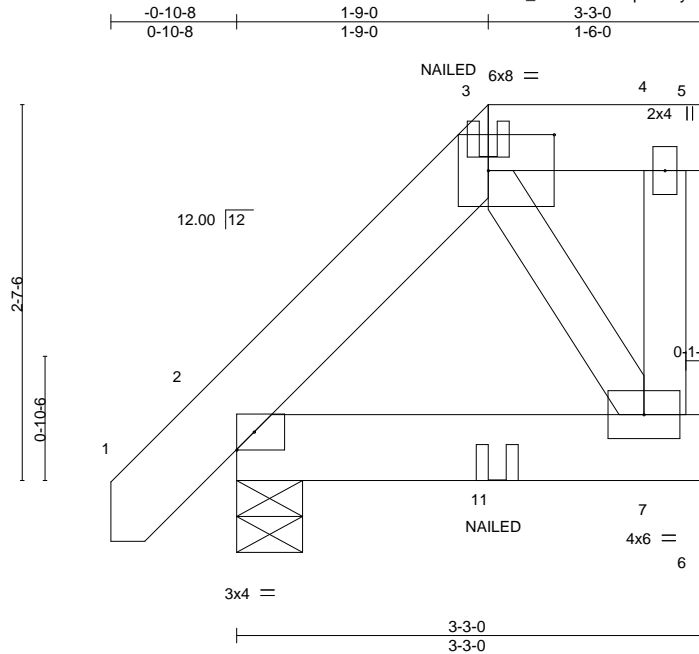
818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss J02	Truss Type Half Hip Girder	Qty 6	Ply 1	H&H/Southport/ Job Reference (optional)	140248691
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:26 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-hxy?ivA9QTTWWcseH_Jrpnwngje9Mi0adtLrauzldOp



Scale: 3/4"=1'

Plate Offsets (X,Y)-- [3:0-5-8,0-3-0]

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 0.03	Vert(LL)	0.00	10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	7-10	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.02	Horz(CT)	-0.00	2	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP						
								Weight: 26 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-3-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=177/0-5-8, 7=135/Mechanical
 Max Horz 2=173(LC 8)
 Max Uplift 2=-82(LC 8), 7=-138(LC 5)
 Max Grav 2=184(LC 29), 7=135(LC 1)

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

NOTES-

- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=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.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 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) 2 except (jt=lb) 7=138.
- 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, 4-5=-20, 6-8=-20
 Concentrated Loads (lb)
 Vert: 3=-0(B) 11=-17(B)



February 13, 2020

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 2227286	Truss J03	Truss Type Jack-Open	Qty 36	Ply 1	H&H/Southport/ Job Reference (optional)	140248692
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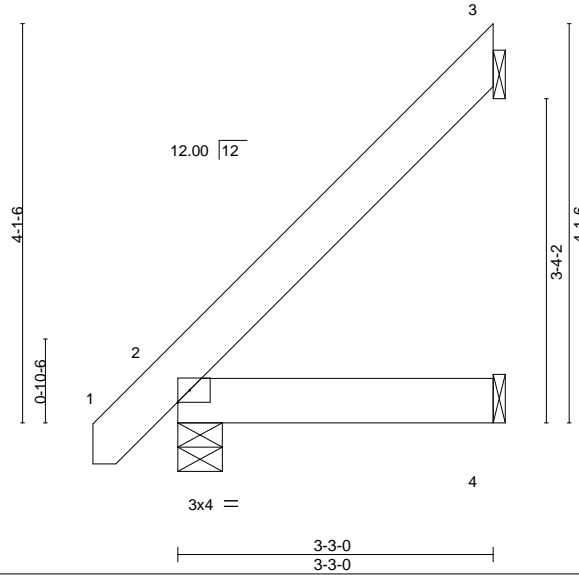
Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:27 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-97PKC1wowjbK8gB3C?VY00Sx07zT59ajsX4P6KzldOo



Scale = 1:23.7



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 0.12	Vert(LL)	0.01 4-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	-0.01 4-7	>999	180		
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					Weight: 22 lb	FT = 20%

LUMBER-

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

BRACING-

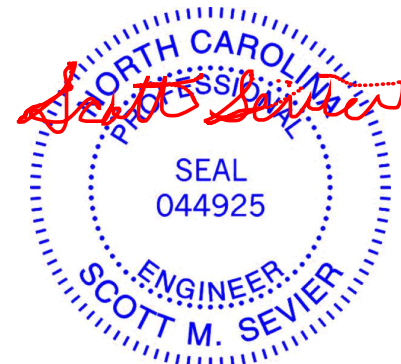
TOP CHORD Structural wood sheathing directly applied or 3-3-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=81/Mechanical, 2=178/0-5-8, 4=41/Mechanical
Max Horz 2=266(LC 12)
Max Uplift 3=-175(LC 12), 4=-25(LC 12)
Max Grav 3=121(LC 19), 2=178(LC 1), 4=61(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=175.



February 13, 2020

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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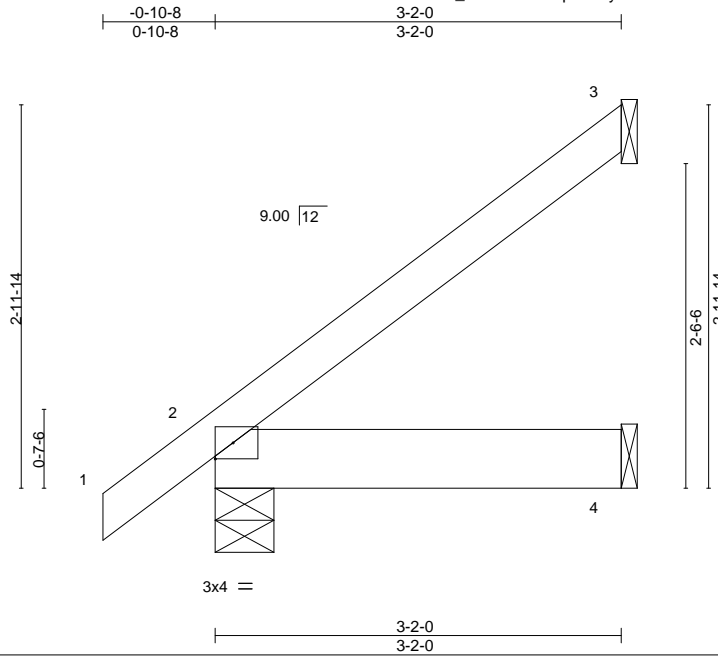
818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss J04	Truss Type Jack-Open	Qty 9	Ply 1	H&H/Southport/ Job Reference (optional)	140248693
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:27 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-97PKC1wowjbK8gB3C?VYO0SwU7zE59ajsX4P6KzldOo



Scale = 1:18.0

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 0.16	Vert(LL)	0.00	4-7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	-0.01	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: 15 lb	FT = 20%

LUMBER-

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

BRACING-

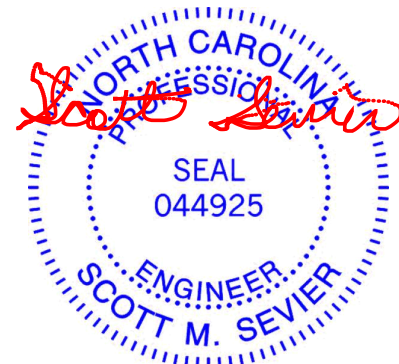
TOP CHORD Structural wood sheathing directly applied or 3-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=70/Mechanical, 2=184/0-5-8, 4=47/Mechanical
Max Horz 2=201(LC 12)
Max Uplift 3=-112(LC 12), 2=-48(LC 12), 4=-22(LC 12)
Max Grav 3=93(LC 19), 2=184(LC 1), 4=65(LC 3)

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

NOTES-

- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
- 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.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 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, 4 except (jt=lb) 3=112.



February 13, 2020

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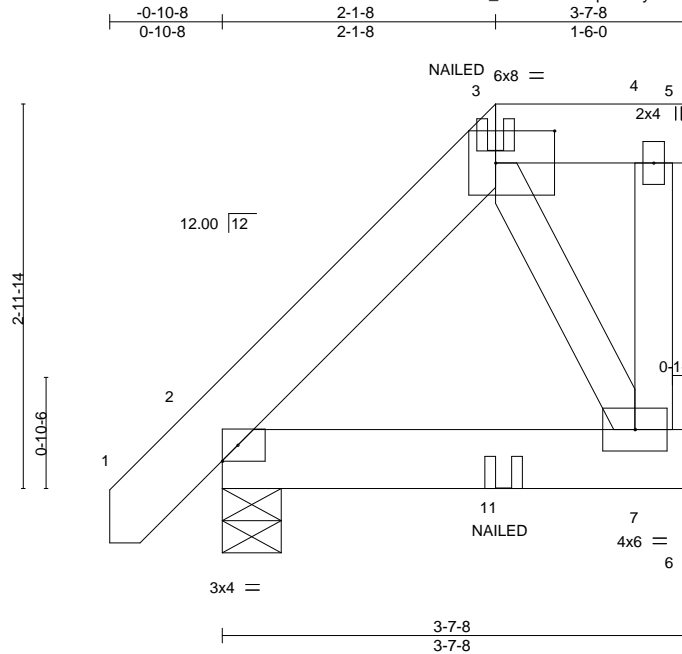
818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss J05	Truss Type Half Hip Girder	Qty 6	Ply 1	H&H/Southport/ Job Reference (optional)	140248694
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:29 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-6WX5dx2RLs2NzLRJPY0TRYlgxgZZ3f0JrZWBDzldOm



Scale = 1:17.9

Plate Offsets (X,Y)-- [3:0-5-8,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.05	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(LL) 0.00 7-10 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.03	Vert(CT) -0.00 7-10 >999 240		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP	Horz(CT) -0.00 2 n/a n/a		
				Weight: 29 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-7-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=197/0-5-8, 7=164/Mechanical
 Max Horz 2=199(LC 8)
 Max Uplift 2=-83(LC 8), 7=-175(LC 8)
 Max Grav 2=201(LC 33), 7=166(LC 33)

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=150mph (3-second gust) Vasd=119mph; TC DL=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.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 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 except (jt=lb) 7=175.
- 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, 4-5=-20, 6-8=-20
 Concentrated Loads (lb)
 Vert: 3=-10(B) 11=-27(B)



February 13, 2020

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818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss J06	Truss Type Jack-Open	Qty 36	Ply 1	H&H/Southport/ Job Reference (optional)	140248695
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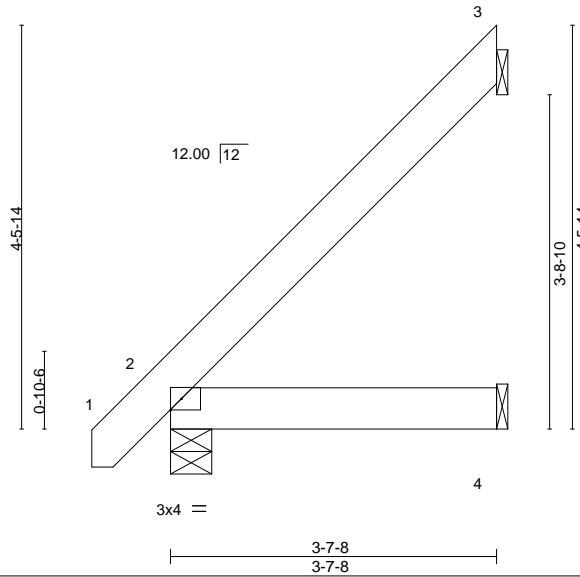
Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:30 2020 Page 1

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Scale = 1:25.6



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 0.15	Vert(LL)	0.01 4-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.01 4-7	>999	180		
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					Weight: 24 lb	FT = 20%

LUMBER-

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

BRACING-

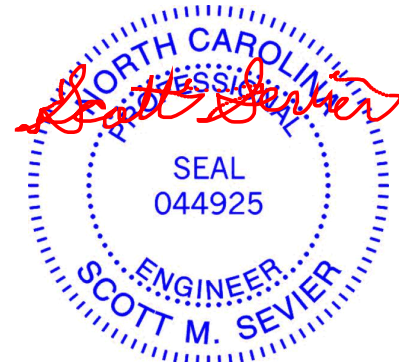
TOP CHORD Structural wood sheathing directly applied or 3-7-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=92/Mechanical, 2=193/0-5-8, 4=46/Mechanical
Max Horz 2=292(LC 12)
Max Uplift 3=-195(LC 12), 4=-26(LC 12)
Max Grav 3=135(LC 19), 2=193(LC 1), 4=68(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=195.



February 13, 2020

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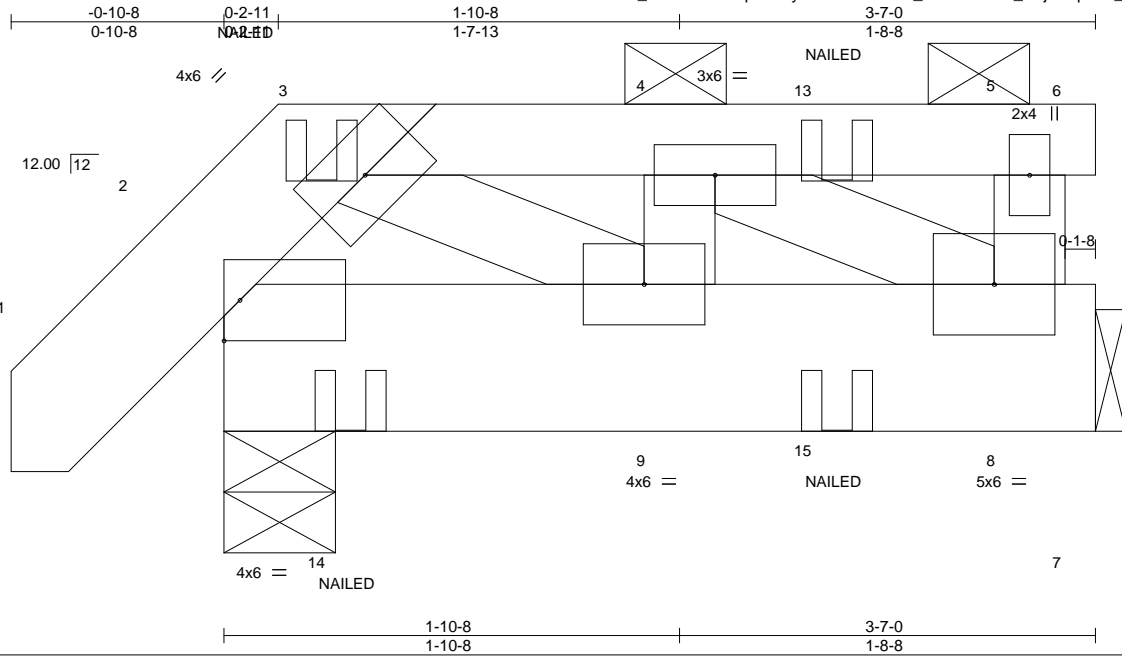
818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss J08	Truss Type Half Hip Girder	Qty 2	Ply 1	H&H/Southport/ Job Reference (optional)	140248697
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Builders FirstSource, Sumter, SC - 29153,

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ID:oMYUFR_W5RnHOV88pNA3fyzorLo-W5DDGI_xkGecER30_Y5j54Ap88h_mQbS?poAoYzldOj



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 0.03	Vert(LL) 0.00 12 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT) -0.00 12 >999 240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.02	Horz(CT) -0.00 2 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP		Weight: 26 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 3-6: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-7-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-6.
BOT CHORD 2x8 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (lb/size) 8=147/Mechanical, 2=196/0-5-8
 Max Horz 2=73(LC 8)
 Max Uplift 8=-105(LC 5), 2=-94(LC 5)
 Max Grav 8=149(LC 20), 2=196(LC 1)

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=150mph (3-second gust) Vasd=119mph; TC DL=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.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 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 except (jt=lb) 8=105.
- 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, 3-5=-60, 5-6=-20, 7-10=-20
 Concentrated Loads (lb)
 Vert: 14=-13(B) 15=-8(B)



February 13, 2020

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

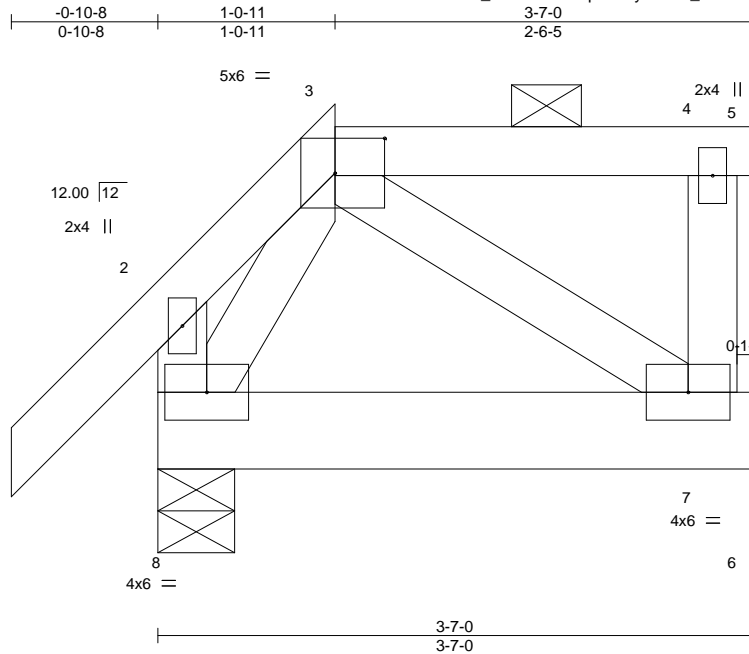
818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss J09	Truss Type Half Hip	Qty 2	Ply 1	H&H/Southport/ Job Reference (optional)	140248698
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Builders FirstSource, Sumter, SC - 29153,

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ID:oMYUFR_W5RnH0V88pNA3fzorLo_HnbT5?ZVZMTsbeDYFcyHixDY1iVtRbETXjK_zldOi



Scale = 1:13.8

Plate Offsets (X,Y)--	[3:0-3-9,0-2-8]				
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 0.20	Vert(LL) -0.00 7-8 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) -0.00 7-8 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT) -0.00 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP	Wind(LL) 0.00 8 **** 240	Weight: 25 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-7-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-5.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 7=128/Mechanical, 8=197/0-5-8
 Max Horz 8=99(LC 12)
 Max Uplift 7=-95(LC 9), 8=-77(LC 12)
 Max Grav 7=129(LC 24), 8=197(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-194/257, 2-8=-272/368

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 3-7-0 zone; end vertical left 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 8.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 13, 2020

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.



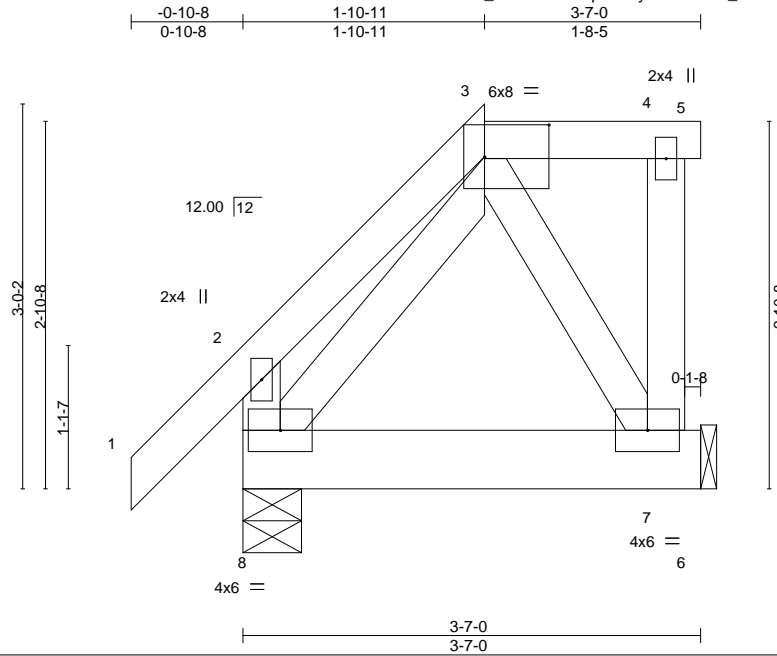
818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss J10	Truss Type Half Hip	Qty 2	Ply 1	H&H/Southport/ Job Reference (optional)	140248699
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Builders FirstSource, Sumter, SC - 29153,

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ID: oMYUFR_W5RnH0V88pNA3fyzorLo-SUK_hR?BGtUKTIDP6z7BAVF6yyNxEKNI7HHsQzldOh



Scale = 1:18.0

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.20	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(LL) -0.00 7-8 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Vert(CT) -0.00 7-8 >999 240		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP	Horz(CT) -0.00 7 n/a n/a		
			Wind(LL) 0.00 8 **** 240	Weight: 29 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-7-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-5.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 7=128/Mechanical, 8=197/0-5-8
 Max Horz 8=157(LC 12)
 Max Uplift 7=-106(LC 9), 8=-54(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-215/269, 2-8=-301/373
 WEBS 3-8=-265/204

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
 - 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 7=106.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



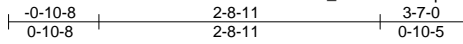
February 13, 2020

Job 2227286	Truss J11	Truss Type Half Hip	Qty 2	Ply 1	H&H/Southport/ Job Reference (optional)	140248700
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:35 2020 Page 1

ID: oMYUFR_W5RnHOV88pNA3fyzorLo-wguMumOp1BcB5uobggeQjioHmMhjznuuinOqOszldOg



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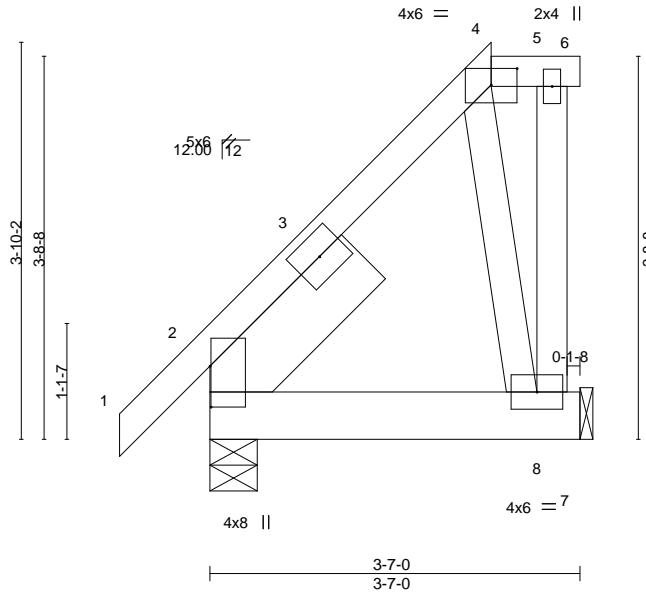


Plate Offsets (X, Y)--	[2:0-4-12,0-0-2], [4:0-3-0,0-1-15]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.14	Vert(LL) 0.01 8-11 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.14	Vert(CT) -0.01 8-11 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT) -0.01 2 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP		Weight: 33 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP DSS 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 8=137/Mechanical, 2=191/0-5-8
Max Horz 2=236(LC 12)
Max Uplift 8=171(LC 12), 2=5(LC 12)
Max Grav 8=146(LC 19), 2=191(LC 1)

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=150mph (3-second gust) Vasd=119mph; 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 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.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 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 except (jt=lb) 8=171.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 13, 2020

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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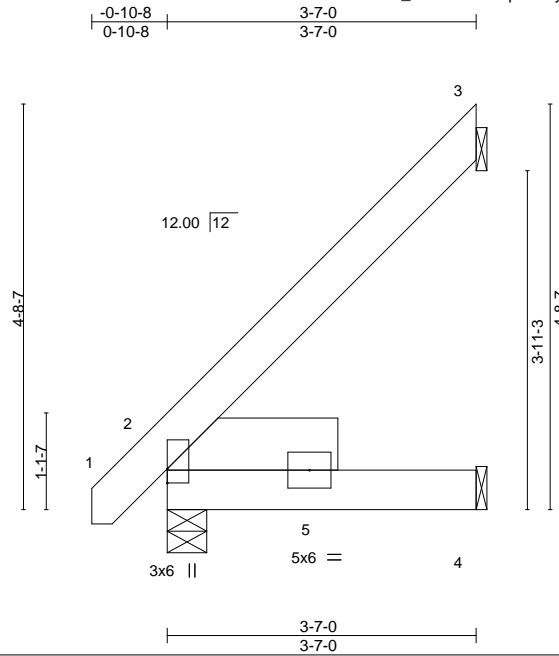
818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss J12	Truss Type Jack-Open	Qty 1	Ply 1	H&H/Southport/ Job Reference (optional)	140248701
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:35 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-wguMum0p1BcB5uobggeQjio10Mh9znZuin0qOszldOg



Scale = 1:26.7

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 0.12	Vert(LL)	0.01	4-8	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	-0.01	4-8	>999	180		
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-MP						Weight: 30 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 SLIDER Left 2x8 SP DSS 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-7-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=82/Mechanical, 2=191/0-5-8, 4=53/Mechanical
 Max Horz 2=289(LC 12)
 Max Uplift 3=-176(LC 12), 4=-64(LC 12)
 Max Grav 3=122(LC 19), 2=191(LC 1), 4=73(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 BOT CHORD 2-4=-439/422

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=176.



February 13, 2020

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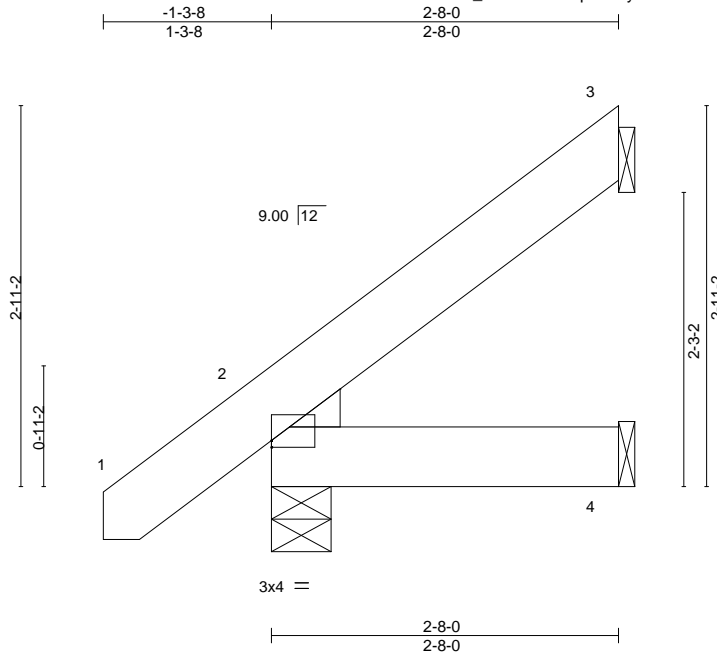
818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss J13	Truss Type Jack-Open	Qty 6	Ply 1	H&H/Southport/ Job Reference (optional)	140248702
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:36 2020 Page 1

ID: oMYUFR_W5RnHOV88pNA3fyzorLo-OsSk561SoUk2j2NnDOAFwKTUI3IiEp2wRmNxJzIdOf



Scale = 1:17.7

Plate Offsets (X,Y)-- [2:0-0-0,0-0-10]

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 0.07	Vert(LL)	0.00	7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.00	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: 19 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=62/Mechanical, 2=189/0-5-8, 4=27/Mechanical
Max Horz 2=187(LC 12)
Max Uplift 3=-110(LC 12), 2=-54(LC 12), 4=-9(LC 12)
Max Grav 3=86(LC 19), 2=189(LC 1), 4=48(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4 except (jt=lb) 3=110.



February 13, 2020

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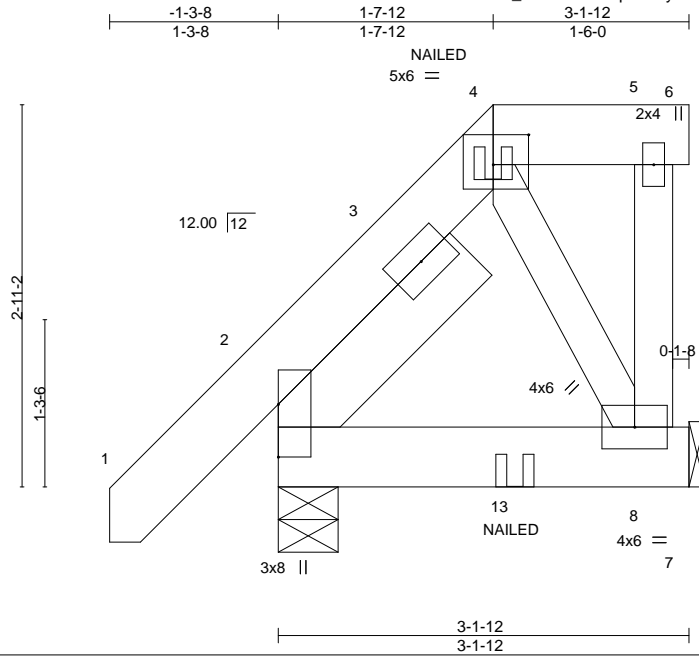
818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss J14	Truss Type Half Hip Girder	Qty 6	Ply 1	H&H/Southport/ Job Reference (optional)	140248703
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:37 2020 Page 1

ID: oMYUFR_W5RnH0V88pNA3fyzorLo-t306JS24ZosvKCcy_n5huo7tfU9PwRhhB95VxTzIdOe



Scale = 1:17.6

Plate Offsets (X,Y)--	[4:0-3-4,0-2-12]				
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 11 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00 11 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.02	Horz(CT) -0.00 2 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP		Weight: 32 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-1-12 oc purlins, except end verticals, and 2-0-0 oc purlins: 4-6.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
SLIDER Left 2x6 SP No.2 1-11-12	

REACTIONS. (lb/size) 2=203/0-5-8, 8=118/Mechanical
 Max Horz 2=191(LC 8)
 Max Uplift 2=-91(LC 8), 8=-150(LC 8)
 Max Grav 2=209(LC 29), 8=124(LC 29)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCdL=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
 - 2) Provide adequate drainage to prevent water ponding.
 - 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.
 - 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 8=150.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 4-5=-60, 5-6=-20, 7-9=-20
Concentrated Loads (lb)
Vert: 4=-2(B) 13=-7(B)



February 13, 2020

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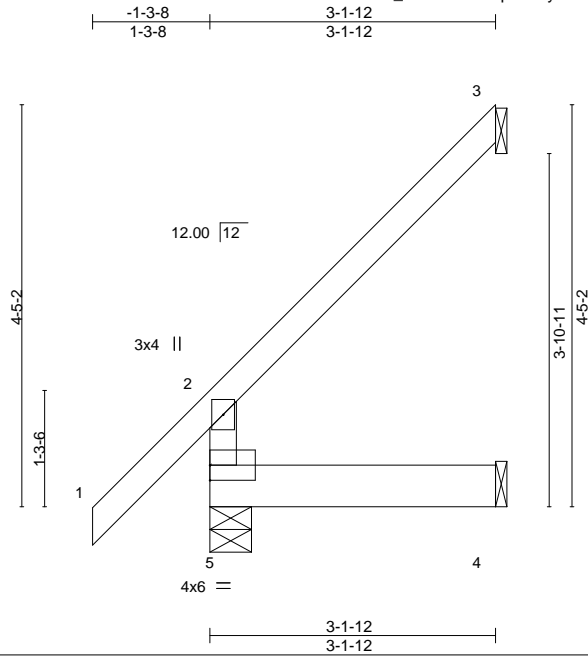
818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss J15	Truss Type Jack-Open	Qty 36	Ply 1	H&H/Southport/ Job Reference (optional)	140248704
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:38 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-LFaUWo2iK6_myMXALoC7LLQfnZiYA8JLOIFU?BzldOd



Scale = 1:25.4

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 0.73	Vert(LL)	0.01 4-5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.20	Vert(CT)	0.01 4-5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.03 3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MR					Weight: 18 lb	FT = 20%

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

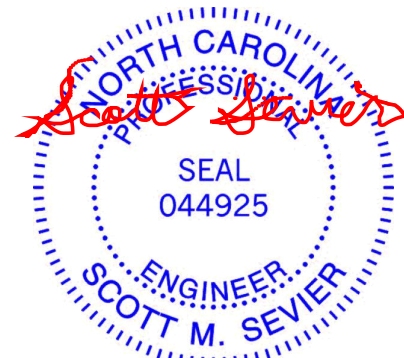
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=225/0-5-8, 3=67/Mechanical, 4=29/Mechanical
Max Horz 5=266(LC 12)
Max Uplift 3=-171(LC 12), 4=-54(LC 12)
Max Grav 5=225(LC 1), 3=109(LC 19), 4=62(LC 10)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (it=lb) 3=171.



February 13, 2020

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 2227286	Truss J16	Truss Type Jack-Open	Qty 3	Ply 1	H&H/Southport/ Job Reference (optional)	140248705
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:39 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-pR8tk83K5P6daW6MvWjMtYy_lz3hvbZUcP_1XezldOc



Scale = 1:19.6

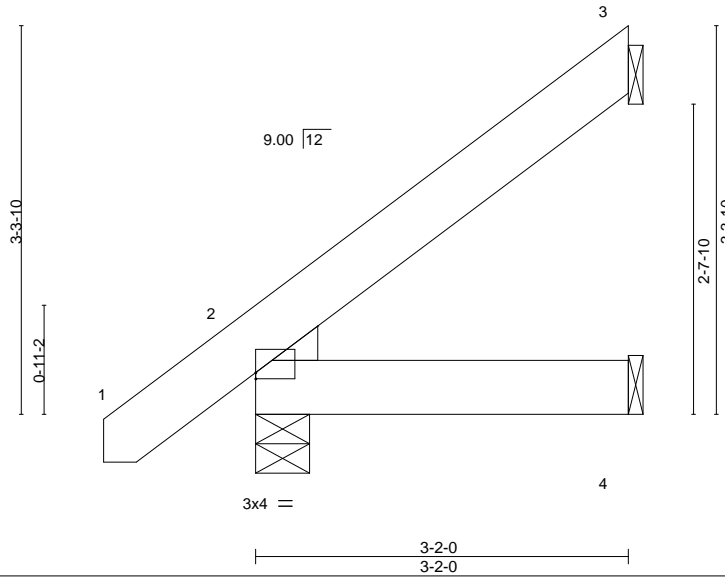


Plate Offsets (X,Y)--	[2:0-0-0,0-0-10]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.10	Vert(LL) 0.00 4-7 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) -0.00 4-7 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP		Weight: 22 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-2-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=77/Mechanical, 2=206/0-5-8, 4=34/Mechanical
 Max Horz 2=213(LC 12)
 Max Uplift 3=-132(LC 12), 2=-54(LC 12), 4=-10(LC 12)
 Max Grav 3=106(LC 19), 2=206(LC 1), 4=58(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4 except (jt=lb) 3=132.



February 13, 2020

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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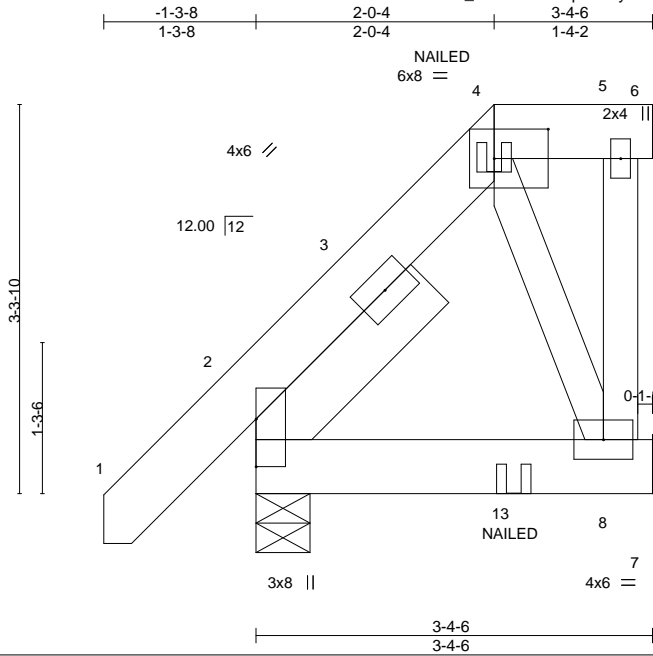
818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss J17	Truss Type Half Hip Girder	Qty 3	Ply 1	H&H/Southport/ Job Reference (optional)	140248706
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:40 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-HeiFxU4ysjEUBggZSDEbQmVAKNQOe2Jdr3kb44zldOb



Scale = 1:19.6

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

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	11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.00	8-11	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.03	Horz(CT)	-0.00	2	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP					Weight: 35 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-6 oc purlins, except end verticals, and 2-0-0 oc purlins: 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=218/0-5-8, 8=144/Mechanical
Max Horz 2=217(LC 8)
Max Uplift 2=-81(LC 8), 8=-199(LC 8)
Max Grav 2=218(LC 33), 8=161(LC 33)

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=150mph (3-second gust) Vasd=119mph; TC DL=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.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 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 except (jt=lb) 8=199.
- 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: 1-4=-60, 4-5=-60, 5-6=-20, 7-9=-20
Concentrated Loads (lb)
Vert: 4=-19(F) 13=-14(F)



February 13, 2020

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.



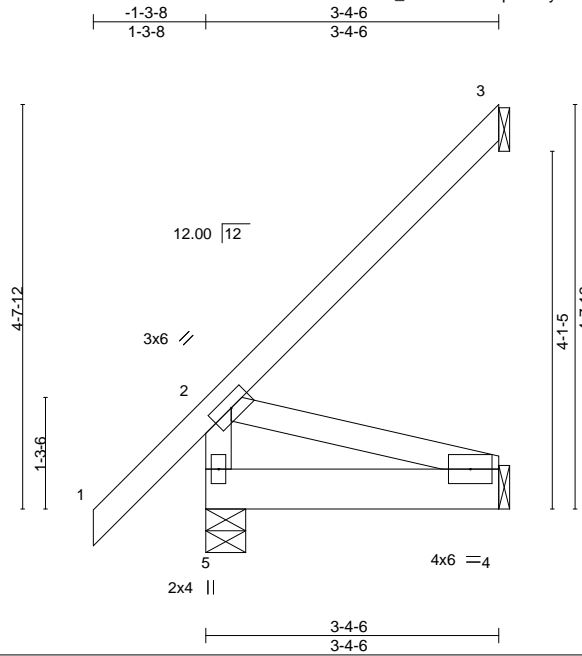
818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss J18	Truss Type Jack-Open	Qty 36	Ply 1	H&H/Southport/ Job Reference (optional)	140248707
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:40 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fzorLo-HeiFxU4ysjEUBggZSDEbQmV41NQGe1ydr3kb44zdOb



Scale = 1:26.5

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 0.42	Vert(LL)	-0.00 4-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.00 4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	-0.00 3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.00 5	****	240		
								Weight: 24 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 or 3-4-6 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=233/0-5-8, 3=75/Mechanical, 4=32/Mechanical
 Max Horz 5=281(LC 12)
 Max Uplift 3=-165(LC 12), 4=-71(LC 12)
 Max Grav 5=233(LC 1), 3=114(LC 19), 4=71(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 BOT CHORD 4-5=-379/294
 WEBS 2-4=-307/397

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=165.



February 13, 2020

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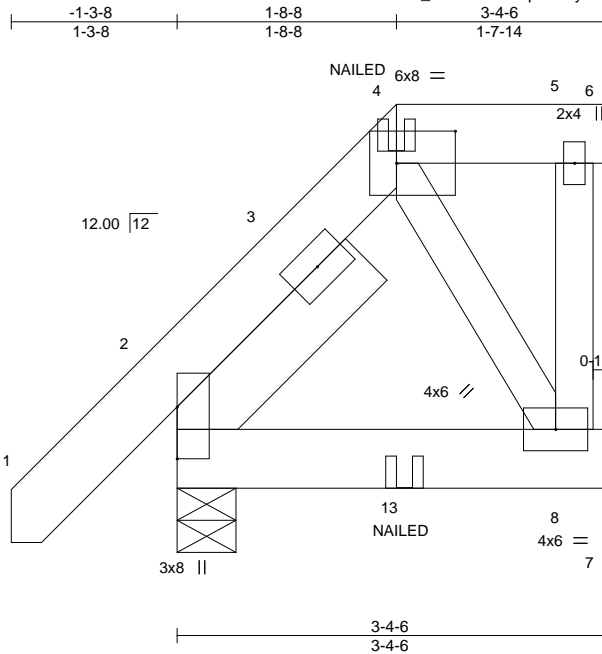
818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss J19	Truss Type Half Hip Girder	Qty 3	Ply 1	H&H/Southport/ Job Reference (optional)	140248708
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:41 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-lqFd9q5ad1MLppF10xlqyz2LUmmeNVfn4jT8cWzldOa



Scale = 1:17.9

Plate Offsets (X,Y)--	[4:0-5-8,0-3-0]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	0.00	11	>999
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	8-11	>999
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.03	Horz(CT)	-0.00	2	n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP				
							PLATES
							MT20
							GRIP
							244/190
							Weight: 34 lb
							FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-6 oc purlins, except end verticals, and 2-0-0 oc purlins: 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=223/0-5-8, 8=143/Mechanical
Max Horz 2=195(LC 8)
Max Uplift 2=-104(LC 8), 8=-159(LC 5)
Max Grav 2=225(LC 33), 8=143(LC 20)

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=150mph (3-second gust) Vasd=119mph; TC DL=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.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 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) 2=104, 8=159.
- 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: 1-4=-60, 4-5=-60, 5-6=-20, 7-9=-20
Concentrated Loads (lb)
Vert: 4=-10(B) 13=-27(B)



February 13, 2020

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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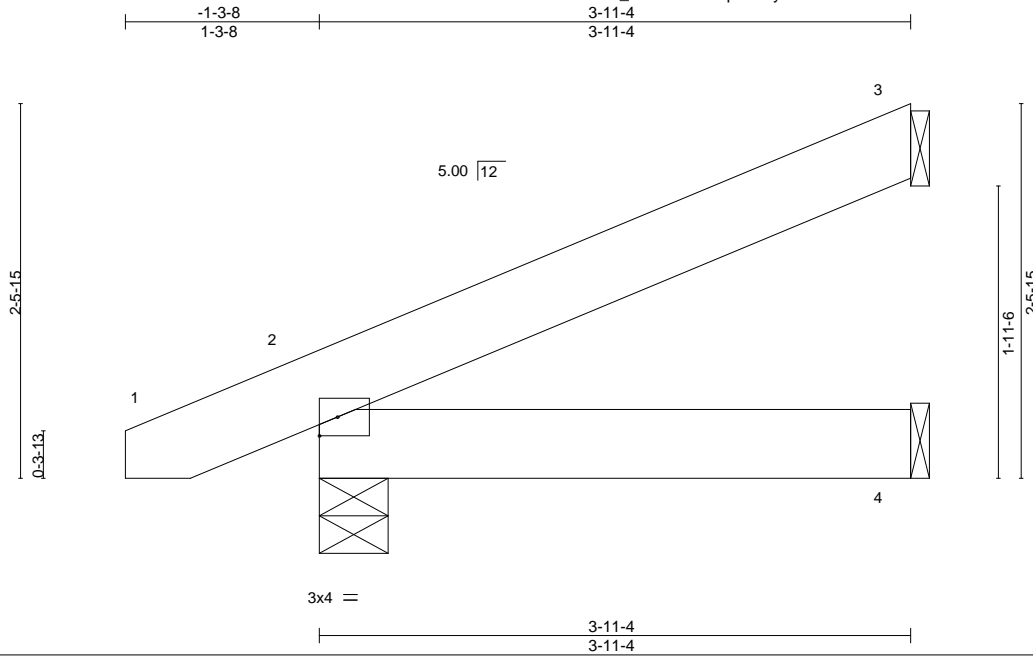
818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss J20	Truss Type Jack-Open	Qty 4	Ply 1	H&H/Southport/ Job Reference (optional)	140248709
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:43 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-hCNNZW6r8ec237P88Mol1O7g5aRlrPY4X0yFgPzldOY



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 0.11	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	-0.01	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							
									Weight: 23 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 3-11-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=100/Mechanical, 2=229/0-5-8, 4=46/Mechanical
Max Horz 2=139(LC 12)
Max Uplift 3=-115(LC 12), 2=-111(LC 12), 4=-1(LC 12)
Max Grav 3=100(LC 1), 2=229(LC 1), 4=72(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=115, 2=111.



February 13, 2020

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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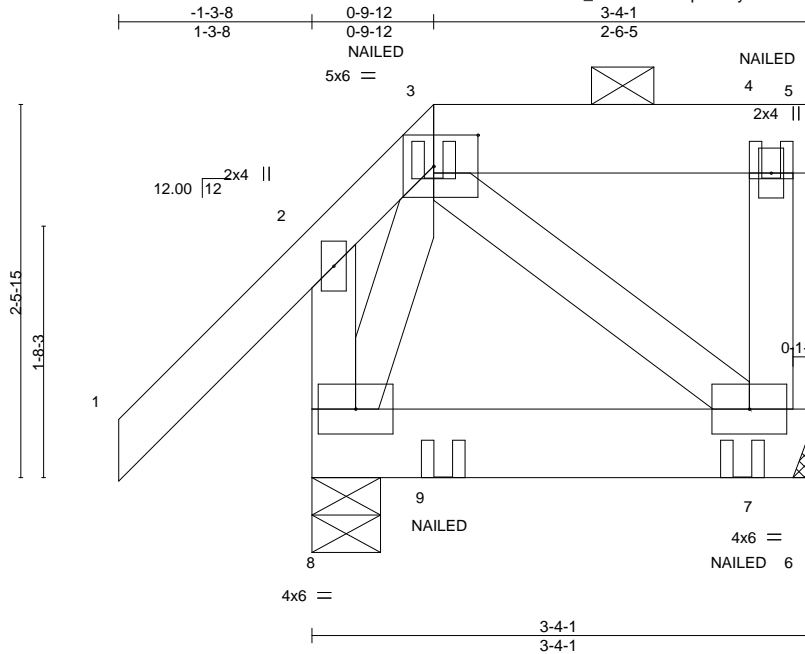
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss J22	Truss Type Half Hip Girder	Qty 2	Ply 1	H&H/Southport/ Job Reference (optional)	140248710
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:44 2020 Page 1
ID:oMYUFR_W5RnH0V88pNA3fyzorLo-9Pxmnr7TvylvgH_Kh3JXacfp_o6ar1DmgioDrzldOX



Scale = 1:15.4

Plate Offsets (X,Y)--	[3:0-3-9,0-2-8]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.23	Vert(LL)	-0.00	7-8	>999	360
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	-0.00	7-8	>999	240
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.05	Horz(CT)	-0.00	7	n/a	n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.00	8	>999	240
								PLATES
								MT20
								GRIP
								244/190
								Weight: 29 lb
								FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-4-1 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 7=216/Mechanical, 8=276/0-5-8
Max Horz 8=118(LC 5)
Max Uplift 7=-208(LC 5), 8=-153(LC 8)
Max Grav 7=232(LC 20), 8=276(LC 1)

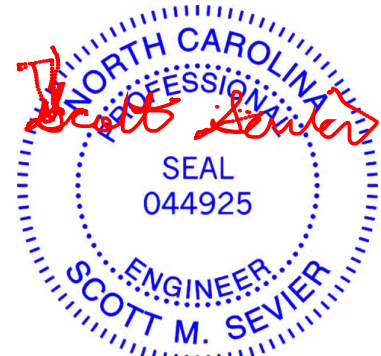
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-271/345
WEBS 3-8=-292/280

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=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.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 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 (it=lb) 7=208, 8=153.
- 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: 1-2=-60, 2-3=-60, 3-4=-60, 4-5=-20, 6-8=-20
Concentrated Loads (lb)
Vert: 3=-40(B) 4=-62(B) 7=-31(B) 9=-28(B)



February 13, 2020

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.



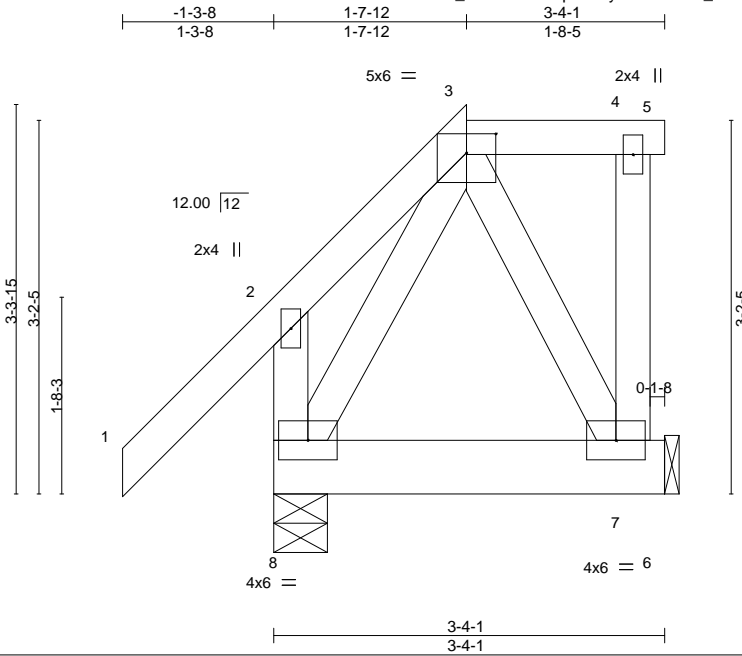
818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss J23	Truss Type Half Hip	Qty 2	Ply 1	H&H/Southport/ Job Reference (optional)	140248711
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:45 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-ebV8_B85gFmIRZWFnm7pCx2O7dJHfN?KRMIHzldOW



Scale = 1:19.7

Plate Offsets (X,Y)--	[3:0-3-0,0-1-15]				
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 0.40	Vert(LL) -0.00 7-8 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) -0.00 7-8 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT) -0.00 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP	Wind(LL) 0.00 8 **** 240	Weight: 30 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-4-1 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-5.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 7=107/Mechanical, 8=224/0-5-8
 Max Horz 8=151(LC 12)
 Max Uplift 7=121(LC 9), 8=58(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-289/358, 2-8=-396/510
 WEBS 3-8=-371/301

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 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) 8 except (jt=lb) 7=121.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 13, 2020

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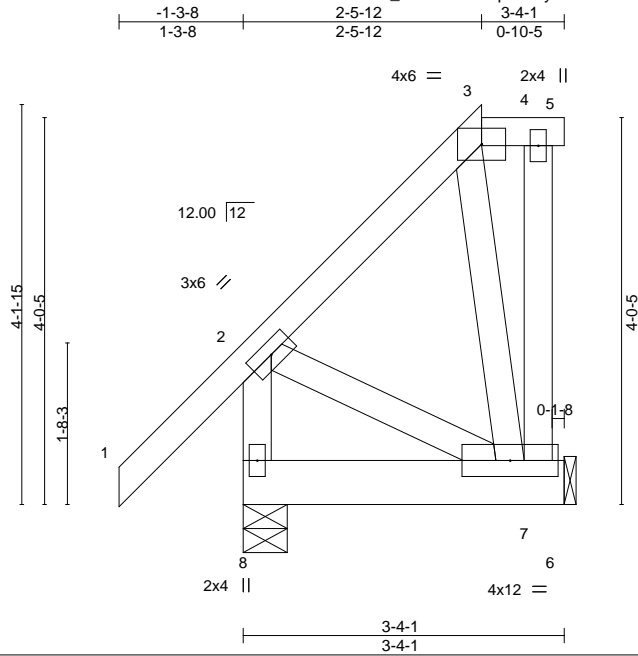
818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss J24	Truss Type Half Hip	Qty 2	Ply 1	H&H/Southport/ Job Reference (optional)	140248712
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:45 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-ebV8_B85gFtmiRZWFnmq7pCyvO7ZJHWN?KRMiHzdOW



Scale: 1/2"=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 0.35	Vert(LL)	-0.00 7-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00 7-8	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	-0.00 7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.00 8	****	240		
								Weight: 33 lb	FT = 20%

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

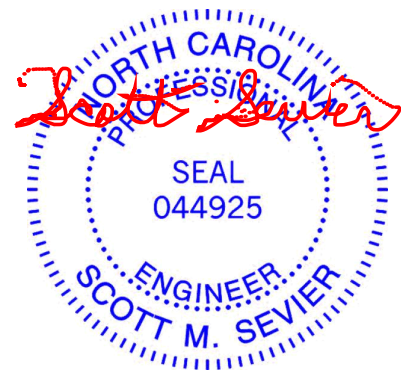
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-1 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 7=107/Mechanical, 8=224/0-5-8
Max Horz 8=209(LC 12)
Max Uplift 7=-183(LC 12), 8=-2(LC 12)
Max Grav 7=136(LC 19), 8=224(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 7-8=-318/253
WEBS 2-7=-262/332

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 7=183.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 13, 2020

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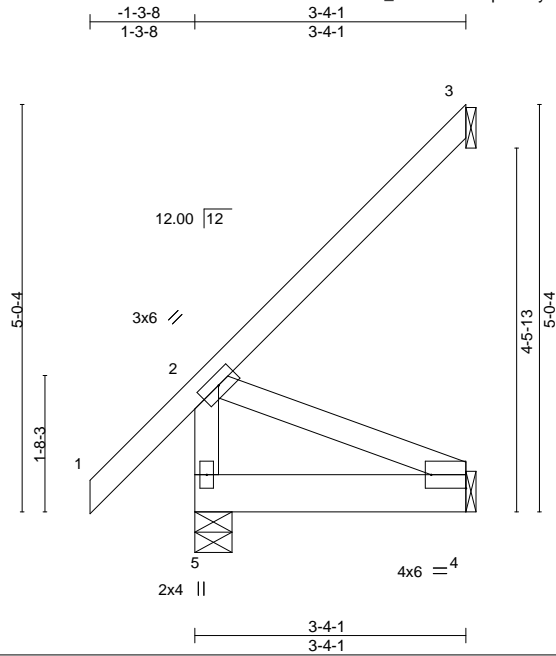
818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss J25	Truss Type Jack-Open	Qty 1	Ply 1	H&H/Southport/ Job Reference (optional)	140248713
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:46 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-6n3WCX9jRZ?dw8ipUL?f116cnTe2kKWD_BvHkzIdOV



Scale = 1:28.4

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.42	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.05	Vert(LL) -0.00 4-5 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.13	Vert(CT) -0.00 4-5 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Horz(CT) -0.00 3 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.00 5 **** 240	Weight: 24 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-4-1 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 5=232/0-5-8, 3=74/Mechanical, 4=32/Mechanical
 Max Horz 5=270(LC 12)
 Max Uplift 3=163(LC 12), 4=105(LC 12)
 Max Grav 5=232(LC 1), 3=113(LC 19), 4=90(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 BOT CHORD 4-5=-385/305
 WEBS 2-4=-333/420

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=163, 4=105.



February 13, 2020

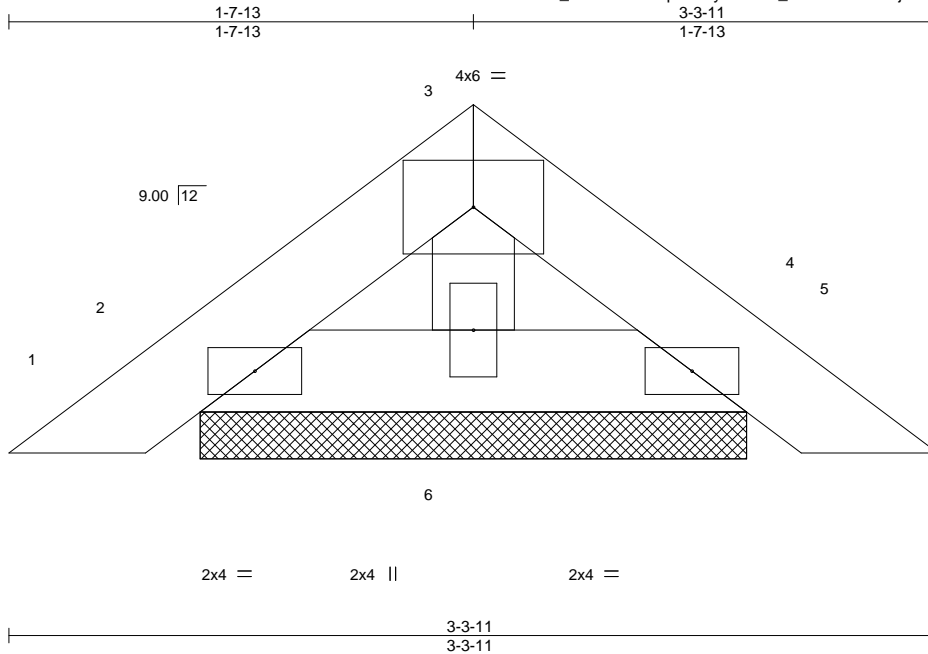
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 2227286	Truss PB01	Truss Type Piggyback	Qty 6	Ply 1	H&H/Southport/ Job Reference (optional)	140248714
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:47 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-a_duPt9LCt7UXkqvNBsECEHNTBpanCQfSewTpAzldOU



Scale = 1:8.2

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 0.03	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	0.00	4	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 10 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-3-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=73/1-11-5, 4=73/1-11-5, 6=61/1-11-5
Max Horz 2=-47(LC 10)
Max Uplift 2=-53(LC 12), 4=-60(LC 13), 6=-4(LC 12)
Max Grav 2=73(LC 1), 4=77(LC 20), 6=64(LC 19)

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=150mph (3-second gust) Vasd=119mph; 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



February 13, 2020

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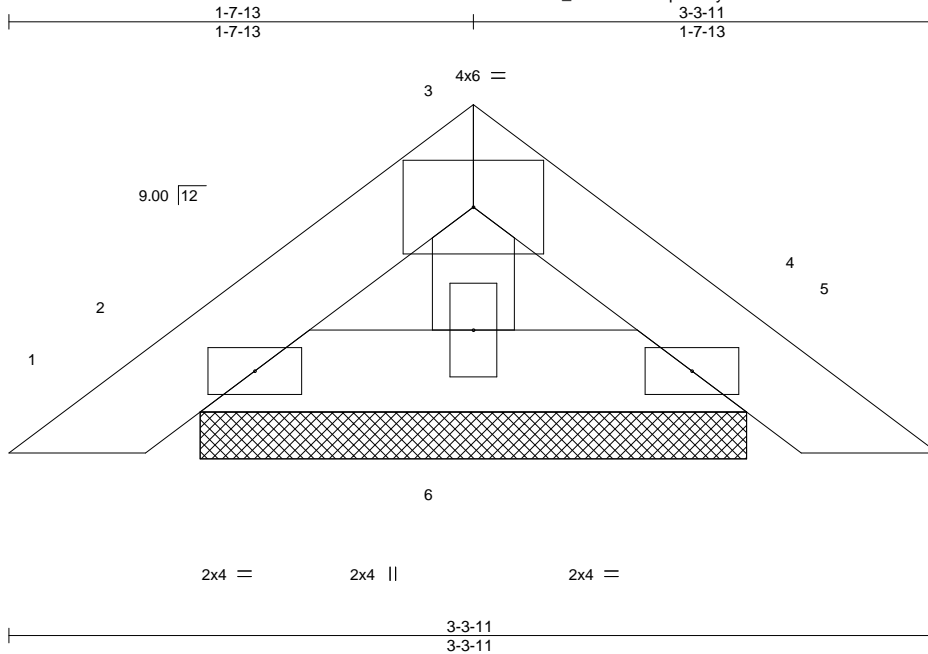
818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss PB02	Truss Type Piggyback	Qty 87	Ply 1	H&H/Southport/ 140248715
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:48 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-2ABGdAZzAFL9u5wvNtkSqYCb9pWfgphlg0MczldOT



Scale = 1:8.2

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 0.03	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	0.00	4	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 10 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-3-11 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=73/1-11-5, 4=73/1-11-5, 6=61/1-11-5
 Max Horz 2=-47(LC 10)
 Max Uplift 2=-53(LC 12), 4=-60(LC 13), 6=-4(LC 12)
 Max Grav 2=73(LC 1), 4=77(LC 20), 6=64(LC 19)

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=150mph (3-second gust) Vasd=119mph; 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



February 13, 2020

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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/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.



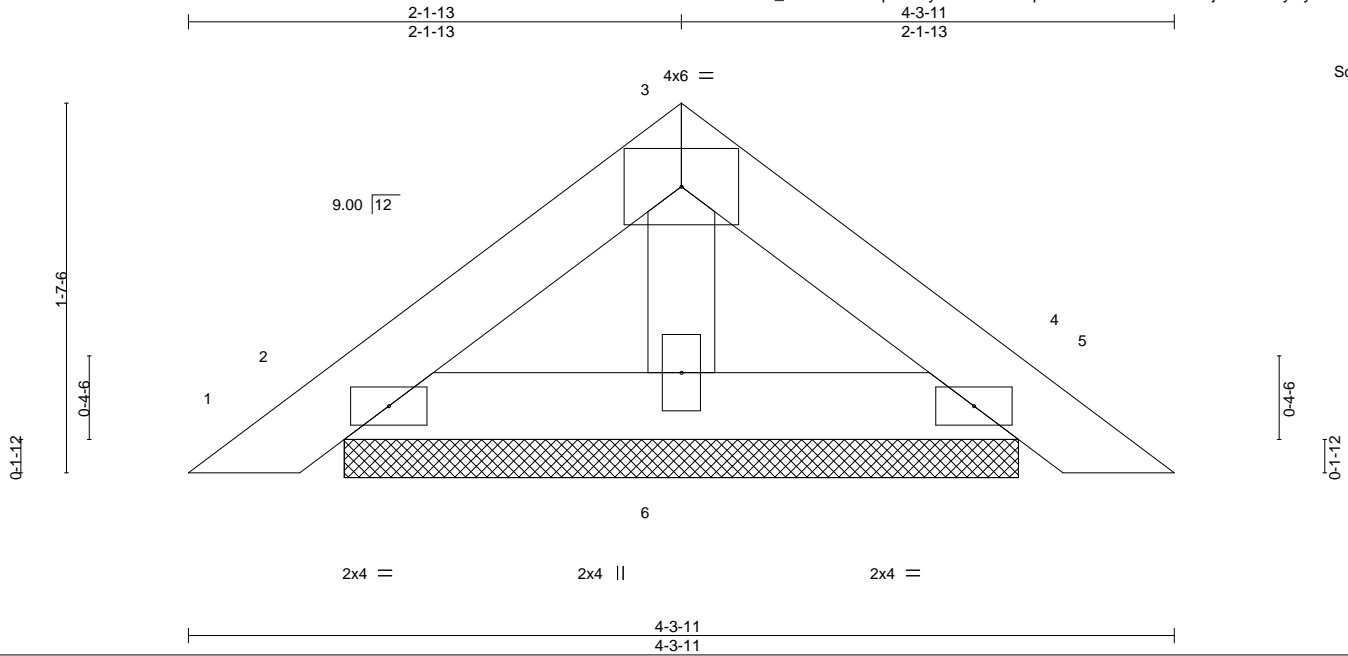
818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss PB03	Truss Type Piggyback	Qty 102	Ply 1	H&H/Southport/ Job Reference (optional)	140248716
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:49 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-WMkfqZBbkUNCn2sHUcviHfNjW?VrF6rywyPZu2zldOS



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 0.05	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	0.00	4	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 14 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-3-11 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. (lb/size) 2=95/2-11-5, 4=95/2-11-5, 6=99/2-11-5
 Max Horz 2=-64(LC 10)
 Max Uplift 2=-65(LC 12), 4=-73(LC 13), 6=-12(LC 12)
 Max Grav 2=95(LC 1), 4=98(LC 20), 6=101(LC 19)

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=150mph (3-second gust) Vasd=119mph; 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



February 13, 2020

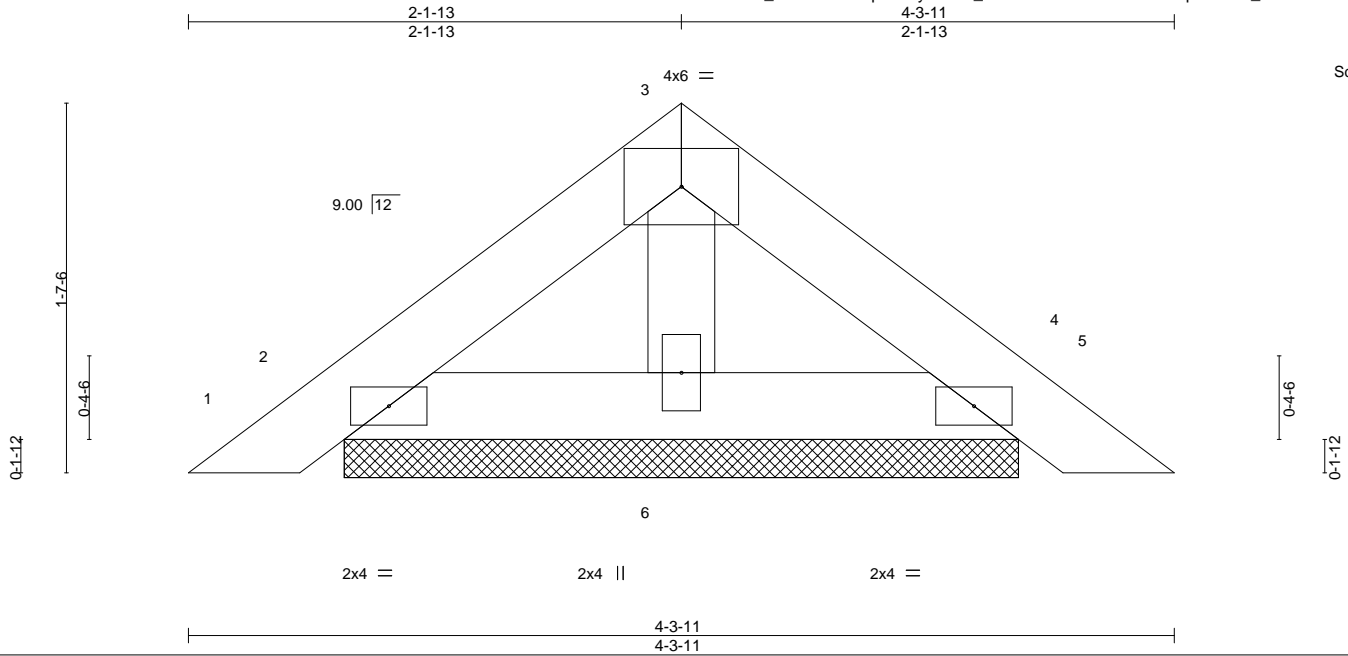
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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 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>ENGINEERING BY TRENCO <small>A MiTek Affiliate</small></p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 2227286	Truss PB04	Truss Type Piggyback	Qty 6	Ply 1	H&H/Southport/ Job Reference (optional)	140248717
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:50 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-_Zl11vCEVoV3OCR2KQxqtvuGPr4_Z568c97QVzldOR



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 0.05	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	0.00	4	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 14 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-3-11 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. (lb/size) 2=95/2-11-5, 4=95/2-11-5, 6=99/2-11-5
 Max Horz 2=-64(LC 10)
 Max Uplift 2=-65(LC 12), 4=-73(LC 13), 6=-12(LC 12)
 Max Grav 2=95(LC 1), 4=98(LC 20), 6=101(LC 19)

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=150mph (3-second gust) Vasd=119mph; 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) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
 - 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



February 13, 2020

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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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TRENCO
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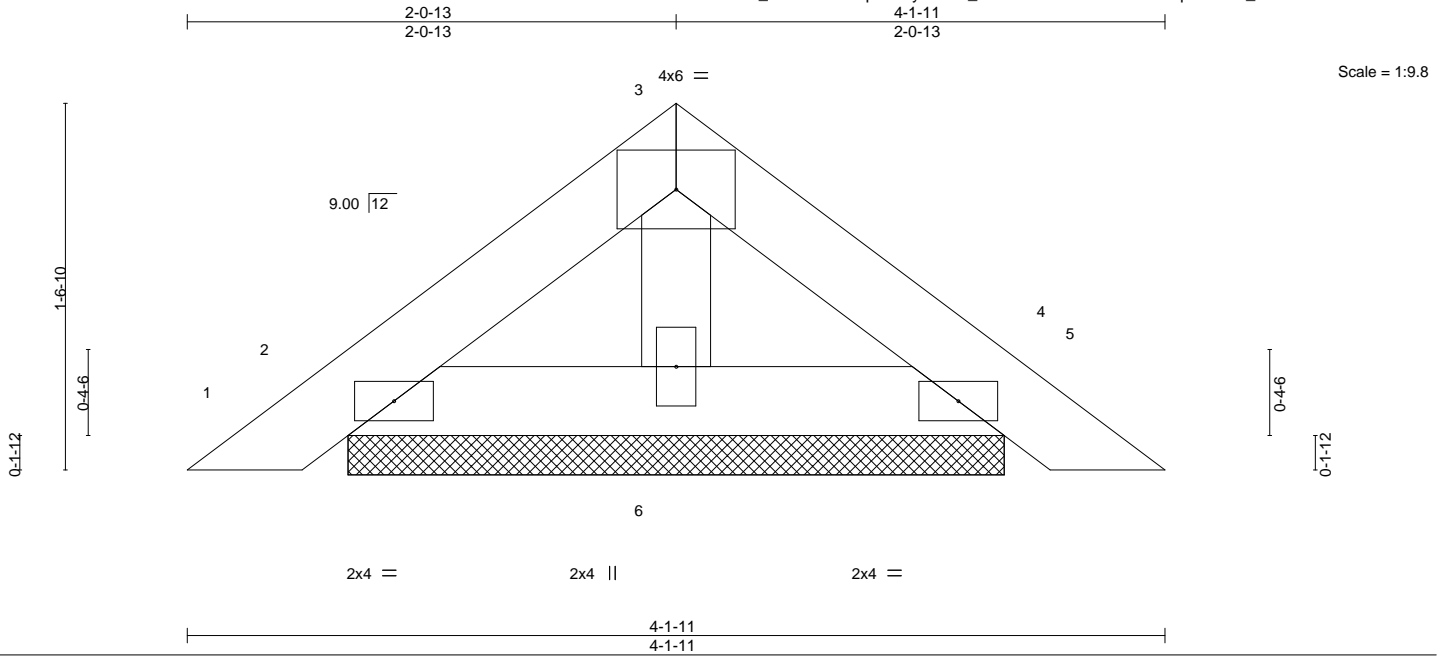
818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss PB05	Truss Type Piggyback	Qty 3	Ply 1	H&H/Southport/ Job Reference (optional)	140248718
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:50 2020 Page 1

ID: oMYUFR_W5RnH0V88pNA3fyzorLo_ZI11vCEVoV3OCRU2KQxqtvuMPPr7_Z668c97QVzldOR



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 0.05	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	0.00	4	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 13 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-1-11 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 2=91/2-9-5, 4=91/2-9-5, 6=93/2-9-5
 Max Horz 2=-61(LC 10)
 Max Uplift 2=-63(LC 12), 4=-71(LC 13), 6=-11(LC 12)
 Max Grav 2=91(LC 1), 4=95(LC 20), 6=95(LC 19)

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=150mph (3-second gust) Vasd=119mph; 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



February 13, 2020

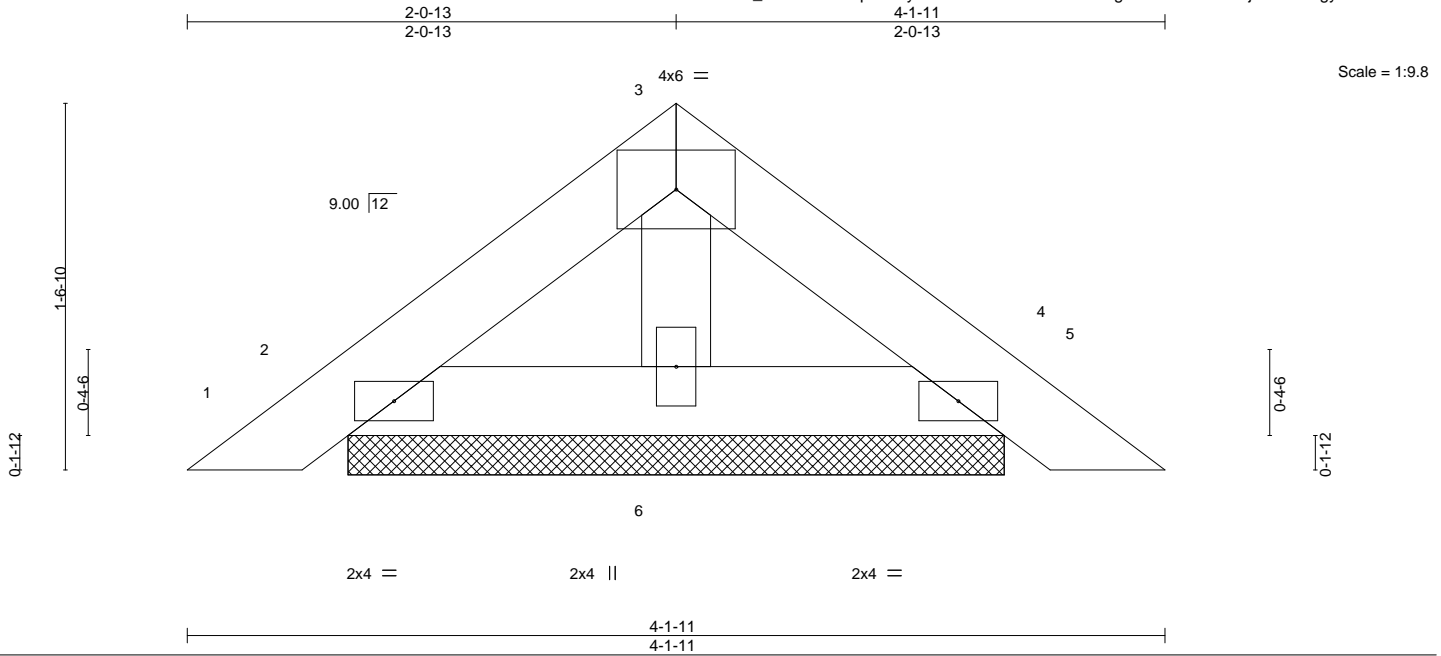
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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 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>ENGINEERING BY TRENCO <small>A MiTek Affiliate</small></p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 2227286	Truss PB06	Truss Type Piggyback	Qty 54	Ply 1	H&H/Southport/ Job Reference (optional)	140248719
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:51 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-SlsPFFCsG5dw0M0gc1xAM4S26oAMj0MFNGugyxzldOQ



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 0.05	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	0.00	4	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 13 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-1-11 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 2=91/2-9-5, 4=91/2-9-5, 6=93/2-9-5
 Max Horz 2=-61(LC 10)
 Max Uplift 2=-63(LC 12), 4=-71(LC 13), 6=-11(LC 12)
 Max Grav 2=91(LC 1), 4=95(LC 20), 6=95(LC 19)

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=150mph (3-second gust) Vasd=119mph; 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) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
 - 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



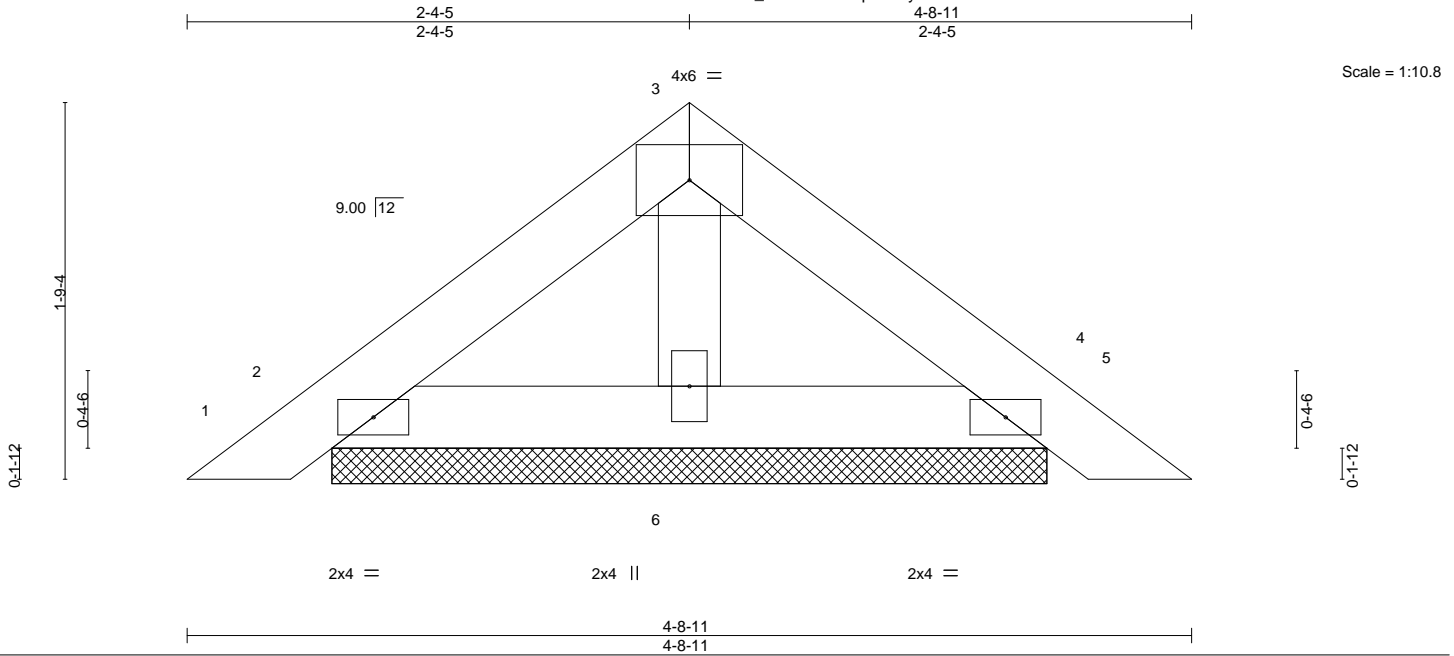
February 13, 2020

Job 2227286	Truss PB07	Truss Type Piggyback	Qty 63	Ply 1	H&H/Southport/ Job Reference (optional)	140248720
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:52 2020 Page 1

ID:oMYUFR_W5RnHOV88pNA3fyzorLo-wxQnSbDU1PineWbs9ISPvI?CVCWRSTZOcweDVNzldOP



Scale = 1:10.8

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 0.07	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	0.00	4	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 15 lb	FT = 20%

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

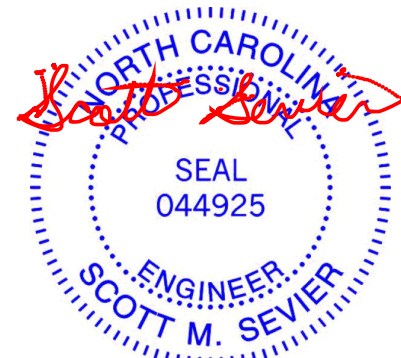
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-8-11 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=104/3-4-5, 4=104/3-4-5, 6=114/3-4-5
 Max Horz 2=71(LC 11)
 Max Uplift 2=-70(LC 12), 4=-80(LC 13), 6=-16(LC 12)
 Max Grav 2=104(LC 1), 4=107(LC 20), 6=115(LC 19)

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=150mph (3-second gust) Vasd=119mph; 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



February 13, 2020

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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.



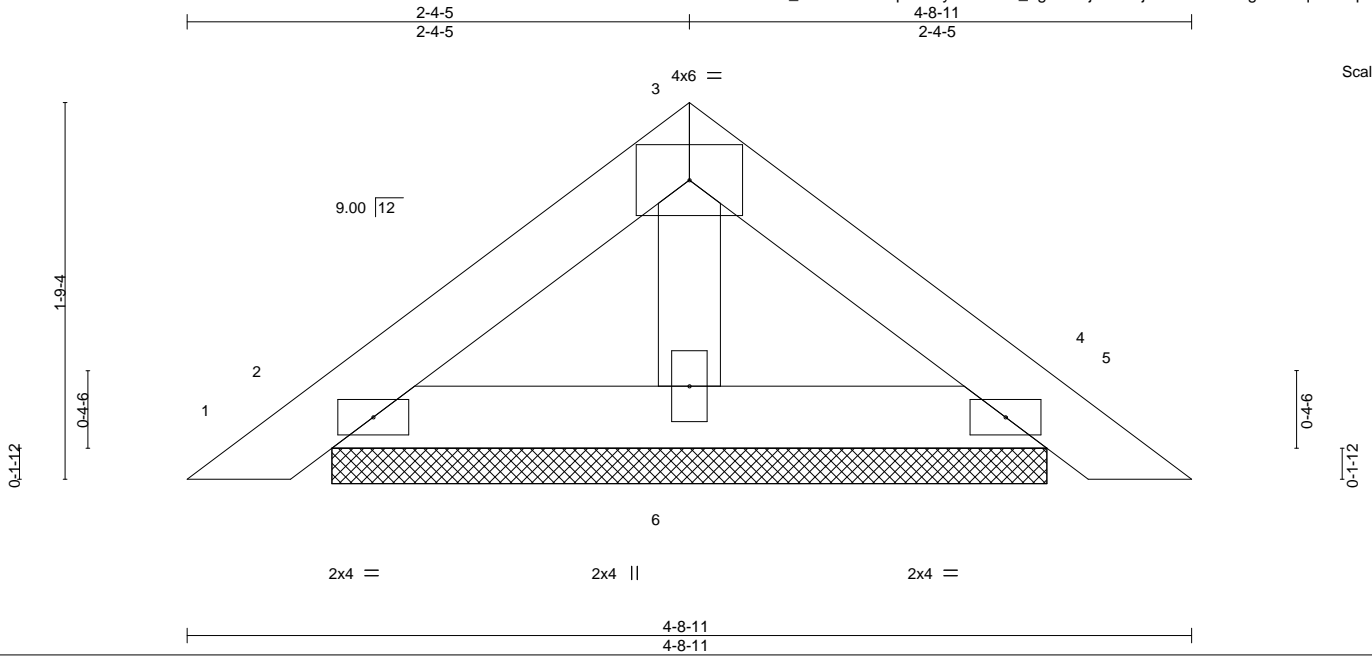
818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss PB08	Truss Type Piggyback	Qty 3	Ply 1	H&H/Southport/ Job Reference (optional)	140248721
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:53 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-P8_9gwE6ojteFfA3jSzeRVXNFcsgBwoYqaNn1qzldOO



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 0.07	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	0.00	4	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 15 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-8-11 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. (lb/size) 2=104/3-4-5, 4=104/3-4-5, 6=114/3-4-5
 Max Horz 2=-71(LC 10)
 Max Uplift 2=-70(LC 12), 4=-80(LC 13), 6=-16(LC 12)
 Max Grav 2=104(LC 1), 4=107(LC 20), 6=115(LC 19)

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=150mph (3-second gust) Vasd=119mph; 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



February 13, 2020

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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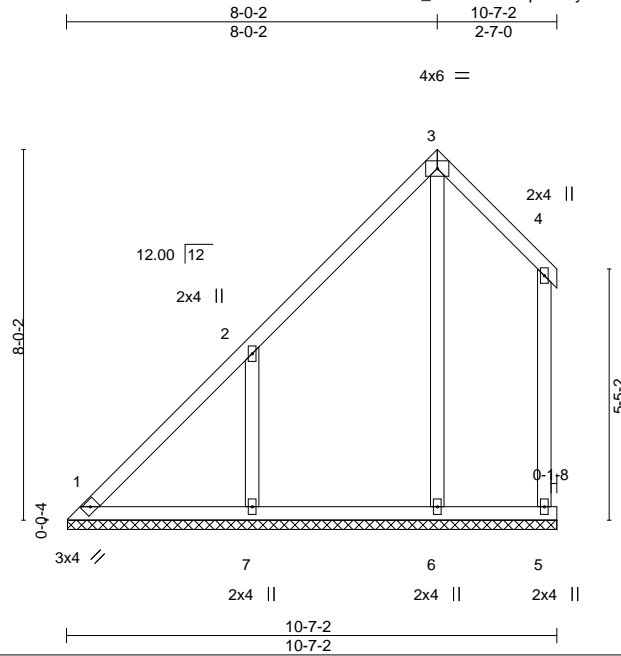
818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss V01	Truss Type Valley	Qty 6	Ply 1	H&H/Southport/ Job Reference (optional)	140248722
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:54 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-tKYYtGFkZ0?UtpiFH9Ut_j4UF0A9wJth3E7KZGzldOn



Scale = 1:49.8

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 0.37	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.28	Horz(CT)	-0.00	5	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S						Weight: 61 lb	FT = 20%

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

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

REACTIONS. All bearings 10-6-14.
 (lb) - Max Horz 1=440(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 6 except 1=114(LC 10), 5=127(LC 13), 7=531(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 5 except 1=283(LC 12), 6=433(LC 19), 7=555(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-488/338
 WEBS 3-6=-253/136, 2-7=-595/569

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
 - 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, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 1=114, 5=127, 7=531.



February 13, 2020

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 2227286	Truss V02	Truss Type Valley	Qty 6	Ply 1	H&H/Southport/ Job Reference (optional)	140248723
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Builders FirstSource, Sumter, SC - 29153,

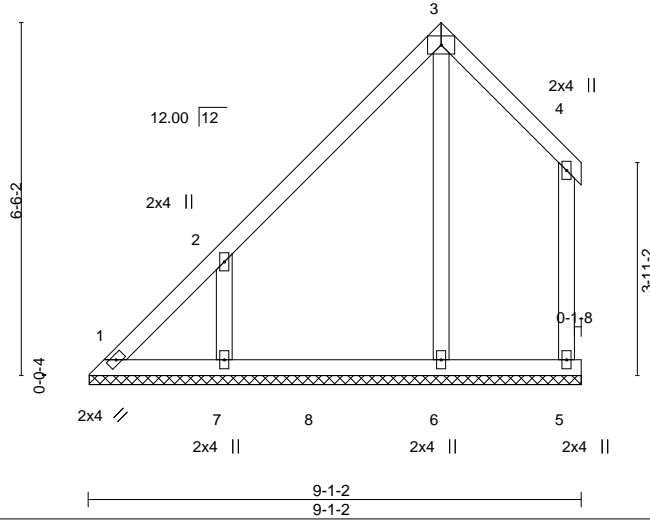
8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:55 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-LW6w5cGMKK7LVzKRrt?6Xwdg3QXhfobrIusu6izIdOM



4x6 =

Scale = 1:42.5



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 0.31	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.19	Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 49 lb	FT = 20%

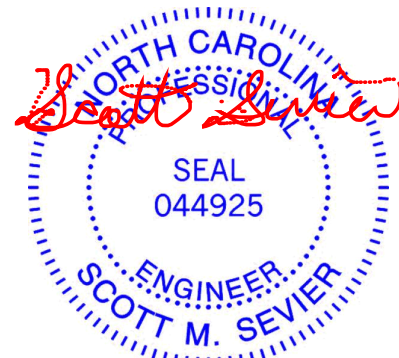
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 9-0-14.
 (lb) - Max Horz 1=336(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) except 1=156(LC 10), 5=127(LC 13), 6=104(LC 12), 7=448(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 5 except 1=281(LC 12), 6=434(LC 19), 7=436(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-429/291
 WEBS 3-6=-262/149, 2-7=-519/505

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
 - 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, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 156 lb uplift at joint 1, 127 lb uplift at joint 5, 104 lb uplift at joint 6 and 448 lb uplift at joint 7.



February 13, 2020

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 2227286	Truss V03	Truss Type GABLE	Qty 6	Ply 1	H&H/Southport/ Job Reference (optional)	140248724
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Builders FirstSource, Sumter, SC - 29153,

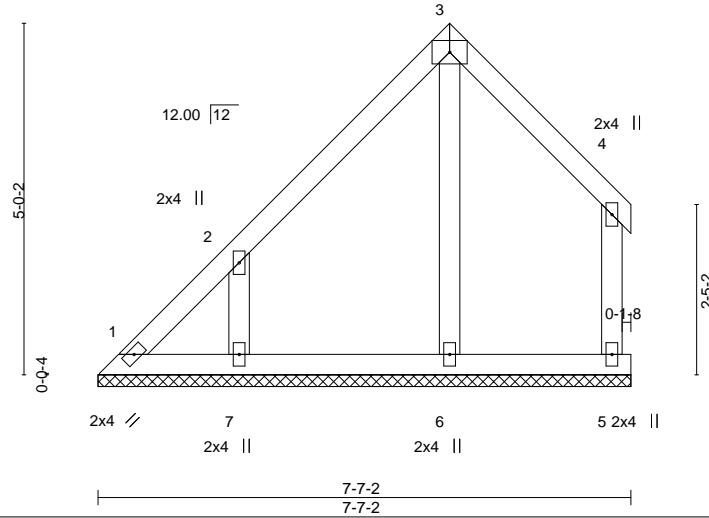
8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:56 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fzorLo-pjflyG_4eFC67vdOaXL389typuwOG?_XYcRe9zldOL



4x6 =

Scale = 1:32.8



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 0.17	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 39 lb	FT = 20%

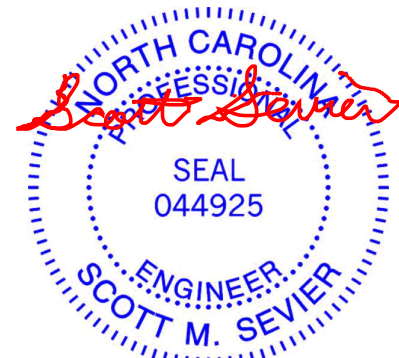
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 7-7-2.
(lb) - Max Horz 1=232(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 6 except 1=126(LC 10), 5=134(LC 13), 7=336(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=263(LC 19), 7=312(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-284/232
WEBS 2-7=-389/382

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
 - 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.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 1=126, 5=134, 7=336.



February 13, 2020

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818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss V04	Truss Type Valley	Qty 6	Ply 1	H&H/Southport/ Job Reference (optional)	140248725
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Builders FirstSource, Sumter, SC - 29153,

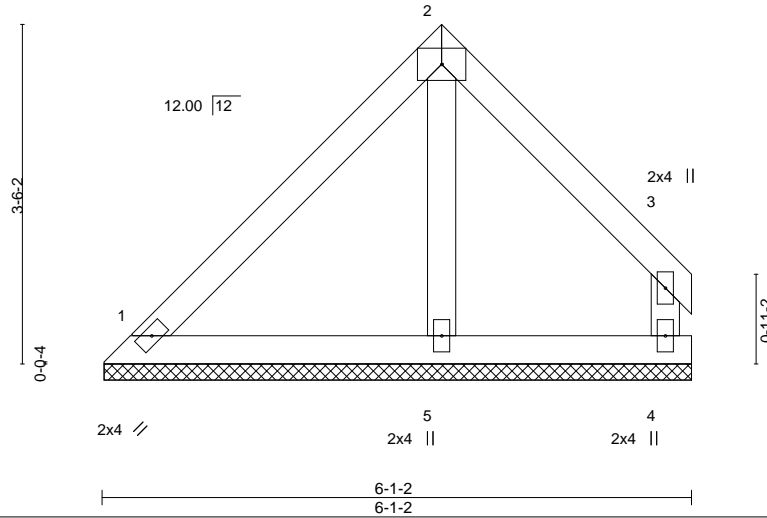
8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:56 2020 Page 1

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4x6 =

Scale: 1/2"=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 0.33	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00		n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						
								Weight: 27 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-1-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=120/6-0-14, 4=84/6-0-14, 5=234/6-0-14
Max Horz 1=136(LC 9)
Max Uplift 1=-126(LC 13), 4=-138(LC 13), 5=-61(LC 9)
Max Grav 1=148(LC 20), 4=116(LC 20), 5=299(LC 19)

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=150mph (3-second gust) Vasd=119mph; 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
- 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.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 1=126, 4=138.



February 13, 2020

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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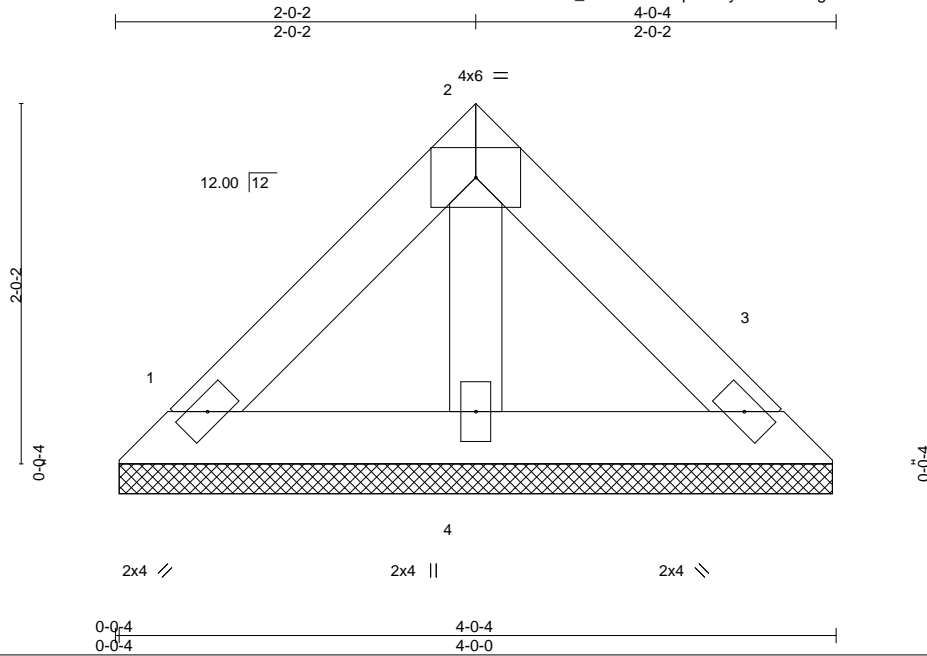
818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss V05	Truss Type Valley	Qty 6	Ply 1	H&H/Southport/ Job Reference (optional)	140248726
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:57 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-HvDgVIHdxN3kHUqyl2acLi3_DEd7ko8lCL_AbzdOK



Scale = 1:12.9

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 0.09	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 15 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-0-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=80/3-11-12, 3=80/3-11-12, 4=105/3-11-12
 Max Horz 1=74(LC 9)
 Max Uplift 1=-52(LC 13), 3=-52(LC 13), 4=-13(LC 12)
 Max Grav 1=80(LC 1), 3=80(LC 1), 4=105(LC 19)

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=150mph (3-second gust) Vasd=119mph; 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



February 13, 2020

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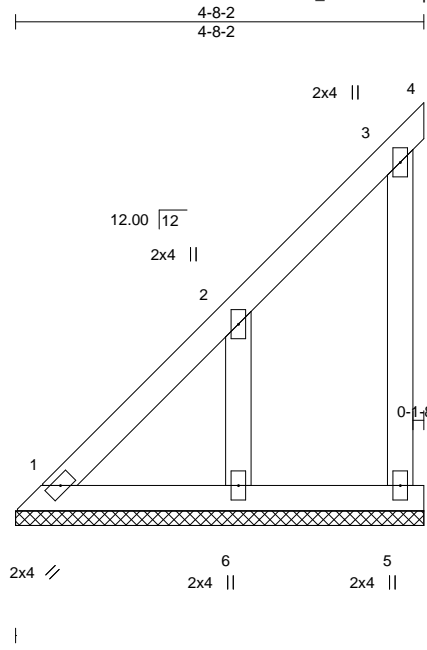
818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss V06	Truss Type GABLE	Qty 6	Ply 1	H&H/Southport/ Job Reference (optional)	140248727
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:58 2020 Page 1

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Scale = 1:26.4

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 0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 25 lb	FT = 20%

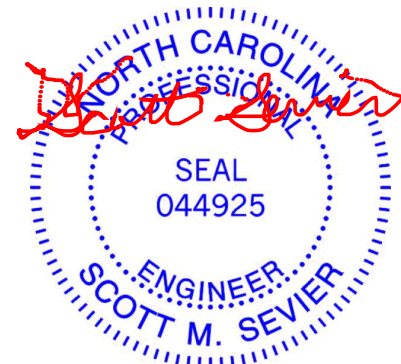
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-8-2 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 4-8-2.
 (lb) - Max Horz 1=300(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 4 except 5=-119(LC 12), 6=-286(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 4, 5 except 6=269(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-379/311
 WEBS 2-6=-349/352

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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) Gable requires continuous bottom chord bearing.
 - 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.
 - 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 6) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=119, 6=286.



February 13, 2020

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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.

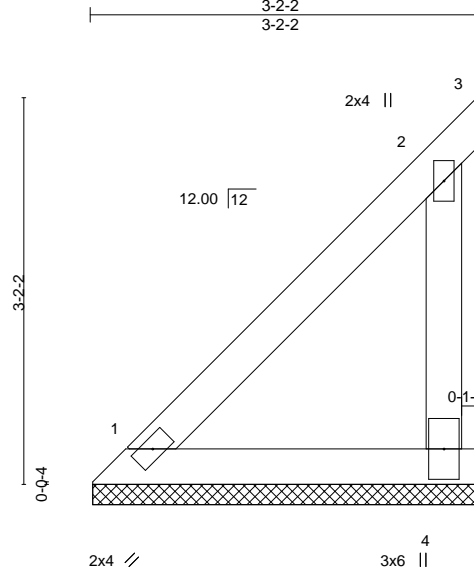
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss V07	Truss Type Valley	Qty 6	Ply 1	H&H/Southport/ Job Reference (optional)	140248728
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:08:59 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-DHLRw_JtNZdnzadC4j42hmnOE1uPbeVQDWq5FTzldOI



Scale = 1:18.9

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 0.17	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						
								Weight: 14 lb	FT = 20%

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

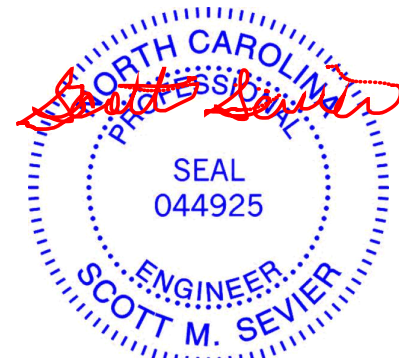
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=90/3-1-14, 3=107/3-1-14, 4=237/3-1-14
Max Horz 1=196(LC 12)
Max Uplift 3=-155(LC 19), 4=-430(LC 12)
Max Grav 1=104(LC 21), 3=224(LC 12), 4=334(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-492/496

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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 exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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.
- 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 6) Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=155, 4=430.



February 13, 2020

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.



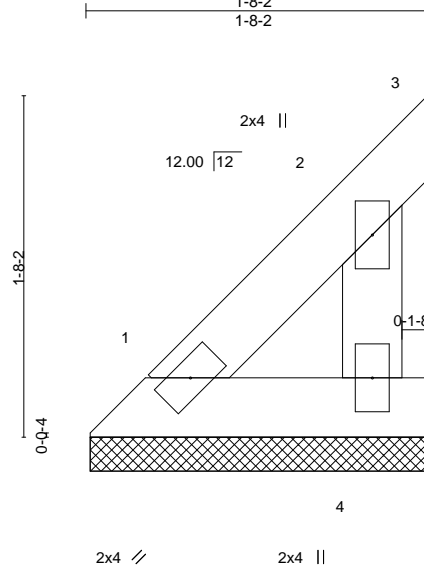
818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss V08	Truss Type Valley	Qty 6	Ply 1	H&H/Southport/ Job Reference (optional)	140248729
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:09:00 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-hUvp8KJV8smebkCPdQbHE_Kb1QFbK5laRAafnwzldOH



Scale = 1:11.3

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 0.04	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 7 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-8-2 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=39/1-7-14, 3=-4/1-7-14, 4=66/1-7-14
 Max Horz 1=92(LC 12)
 Max Uplift 3=-5(LC 19), 4=-108(LC 12)
 Max Grav 1=48(LC 21), 3=7(LC 12), 4=90(LC 19)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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) Gable requires continuous bottom chord bearing.
- 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.
- 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 6) Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 4=108.



February 13, 2020

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.

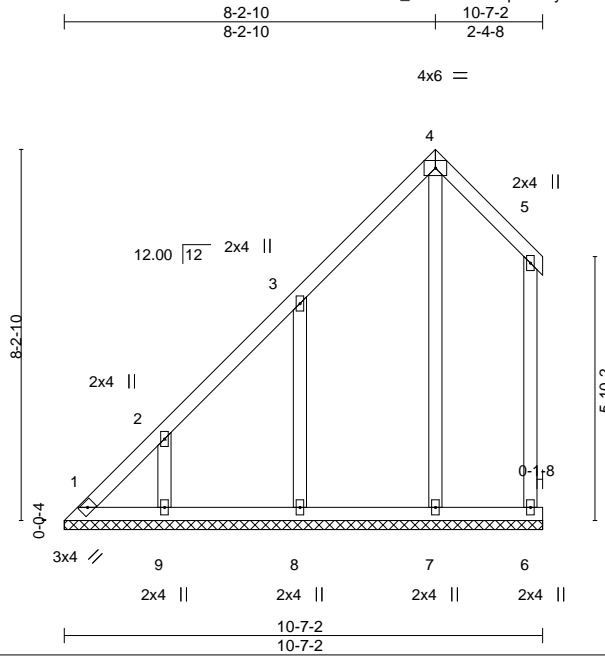


818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss V09	Truss Type GABLE	Qty 3	Ply 1	H&H/Southport/ Job Reference (optional)	140248730
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:09:01 2020 Page 1
ID:oMYUFR_W5RnH0V88pNA3fyzorLo-AgTBLfK7vAuVDunbB86WmBtj5qar3VJggJCMzldOG



Scale = 1:51.0

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 0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.24	Horz(CT)	-0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 67 lb	FT = 20%

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

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

REACTIONS. All bearings 10-7-2.
 (lb) - Max Horz 1=463(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 7 except 1=181(LC 10), 6=115(LC 13), 8=380(LC 12), 9=304(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 6 except 1=391(LC 12), 7=310(LC 19), 8=405(LC 19), 9=276(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-593/424, 2-3=-345/244
 WEBS 3-8=-436/419, 2-9=-350/336

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
 - 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, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 1=181, 6=115, 8=380, 9=304.



February 13, 2020

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ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss V10	Truss Type Valley	Qty 3	Ply 1	H&H/Southport/ Job Reference (optional)	140248731
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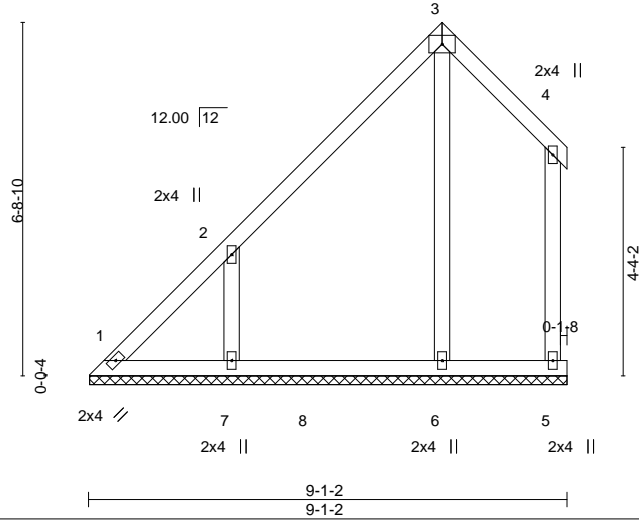
Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:09:02 2020 Page 1
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4x6 =

Scale = 1:43.8



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 0.31	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.20	Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 51 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

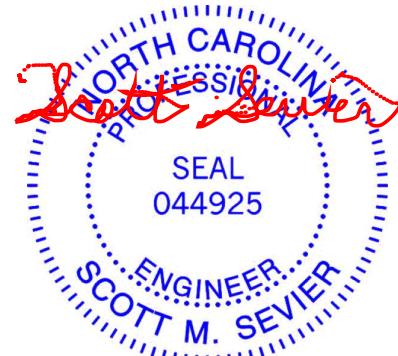
All bearings 9-0-14.
(lb) - Max Horz 1=359(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) except 1=144(LC 10), 5=112(LC 13), 6=118(LC 12), 7=455(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 5 except 1=287(LC 12), 6=395(LC 19), 7=450(LC 19)

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

TOP CHORD 1-2=-446/315
WEBS 3-6=-260/163, 2-7=-527/512

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
- 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, with BCDL = 10.0psf.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 144 lb uplift at joint 1, 112 lb uplift at joint 5, 118 lb uplift at joint 6 and 455 lb uplift at joint 7.



February 13, 2020

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 2227286	Truss V11	Truss Type GABLE	Qty 3	Ply 1	H&H/Southport/ Job Reference (optional)	140248732
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Builders FirstSource, Sumter, SC - 29153,

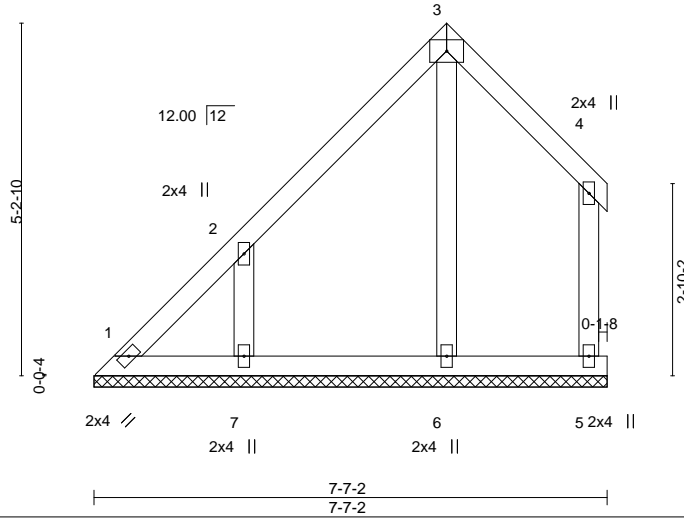
8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:09:03 2020 Page 1

ID:oMYUFR_W5RnHOV88pNA3fyzorLo-63bxmLMNRn8DSCx_JY9_rcy42eHcXQh088oJOFzldOE



4x6 =

Scale = 1:34.1



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)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 40 lb	FT = 20%

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

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

REACTIONS. All bearings 7-7-2.
 (lb) - Max Horz 1=255(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 6 except 1=114(LC 10), 5=119(LC 13), 7=345(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=257(LC 19), 7=320(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-304/229
 WEBS 2-7=-399/392

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
 - 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.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 1=114, 5=119, 7=345.



February 13, 2020

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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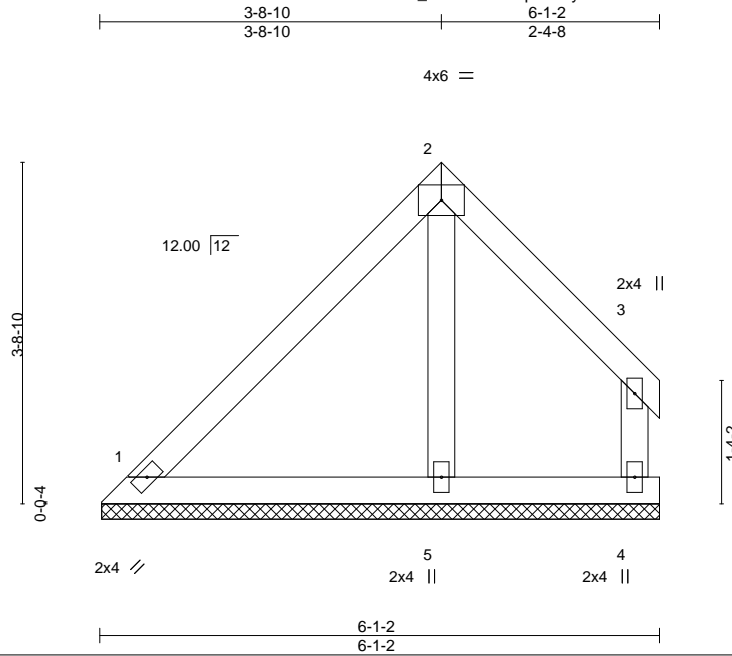
818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss V12	Truss Type Valley	Qty 3	Ply 1	H&H/Southport/ Job Reference (optional)	140248733
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:09:04 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-aF8KzhN0C5G44MWAsGgDOqVCm2bLGuvAMoYswhzldOD



Scale = 1:25.1

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 0.37	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 28 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-1-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=128/6-0-14, 4=74/6-0-14, 5=236/6-0-14
Max Horz 1=151(LC 12)
Max Uplift 1=110(LC 13), 4=127(LC 13), 5=75(LC 12)
Max Grav 1=151(LC 20), 4=103(LC 20), 5=302(LC 19)

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=150mph (3-second gust) Vasd=119mph; 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
- 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.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 1=110, 4=127.



February 13, 2020

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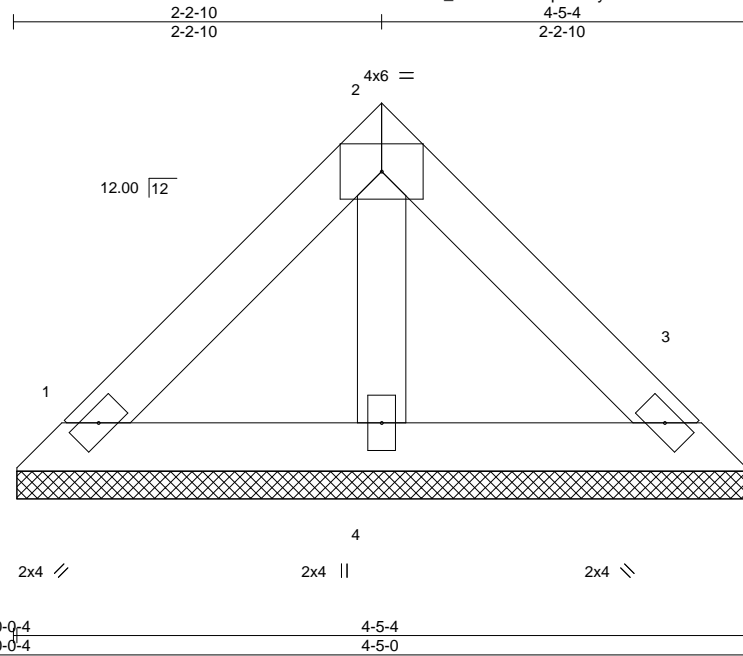
818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss V13	Truss Type Valley	Qty 3	Ply 1	H&H/Southport/ Job Reference (optional)	140248734
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:09:05 2020 Page 1

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Scale = 1:13.9

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 0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 17 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-5-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=90/4-4-12, 3=90/4-4-12, 4=118/4-4-12
 Max Horz 1=-83(LC 8)
 Max Uplift 1=-59(LC 13), 3=-59(LC 13), 4=-15(LC 12)
 Max Grav 1=90(LC 1), 3=90(LC 1), 4=119(LC 19)

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=150mph (3-second gust) Vasd=119mph; 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
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



February 13, 2020

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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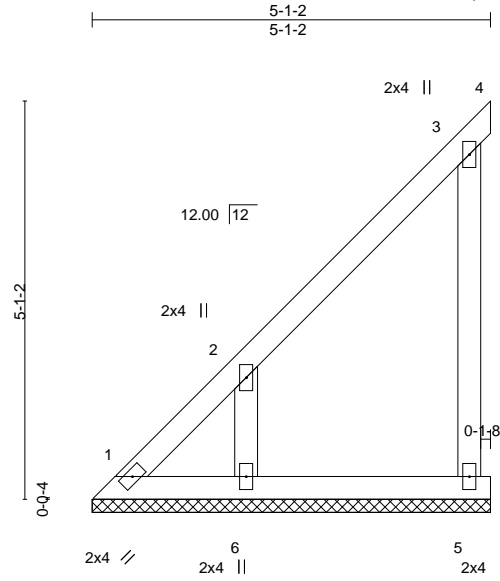
818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss V14	Truss Type GABLE	Qty 9	Ply 1	H&H/Southport/ Job Reference (optional)	140248735
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:09:05 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-2RiiB1NezPOxhV5MQzBSx11PGRy_?KDJbSHQS7zldOC



Scale = 1:29.5

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 0.20	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 26 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-1-2 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 5-1-2.

(lb) - Max Horz 1=329(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 4=-108(LC 19), 5=-345(LC 12), 6=-310(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 4 except 1=281(LC 12), 5=271(LC 19), 6=299(LC 19)

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

TOP CHORD 1-2=-471/384, 3-5=-396/400
 WEBS 2-6=-382/385

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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) Gable requires continuous bottom chord bearing.
- 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.
- 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 6) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 4=108, 5=345, 6=310.



February 13, 2020

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.



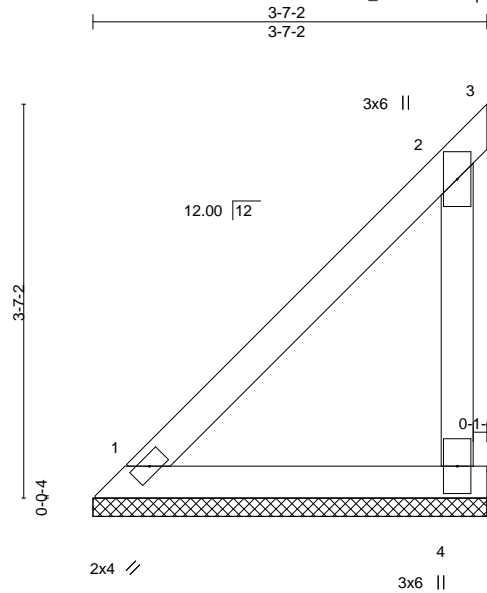
818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss V15	Truss Type GABLE	Qty 9	Ply 1	H&H/Southport/ Job Reference (optional)	140248736
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:09:06 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fyzorLo-WeG4ONOGkiWoJfgY_hihTFaabrHckoESq61z_ZzldOB



Scale = 1:21.0

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 0.22	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 16 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-7-2 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=104/3-7-2, 3=153/3-7-2, 4=303/3-7-2
 Max Horz 1=225(LC 12)
 Max Uplift 3=223(LC 19), 4=558(LC 12)
 Max Grav 1=120(LC 21), 3=322(LC 12), 4=428(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-256/254, 2-4=-636/642

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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) Gable requires continuous bottom chord bearing.
- 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.
- 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 6) Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=223, 4=558.



February 13, 2020

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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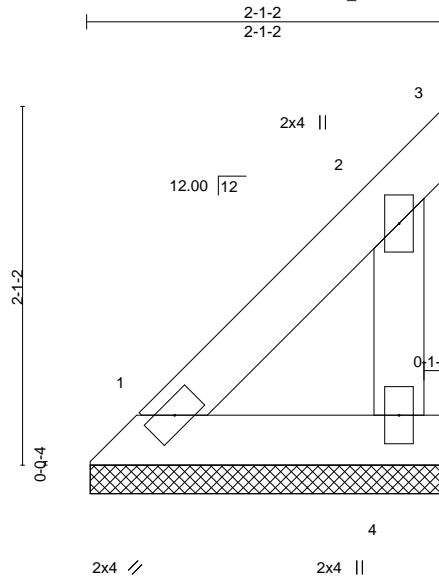
818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss V16	Truss Type Valley	Qty 9	Ply 1	H&H/Southport/ Job Reference (optional)	140248737
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:09:07 2020 Page 1

ID:oMYUFR_W5RnH0V88pNA3fzorLo_-qqScjPuV0eexpFIYODw0S6nsFe4TFUc2lmWX0zldOA



Scale = 1:13.4

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 0.06	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 9 lb	FT = 20%

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

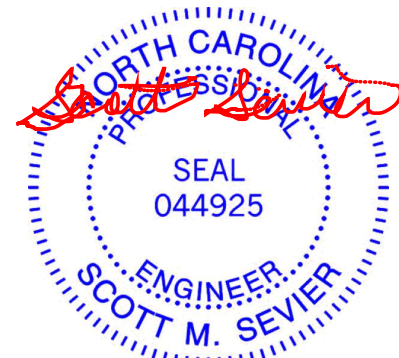
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-1-2 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=53/2-0-14, 3=-22/2-0-14, 4=103/2-0-14
 Max Horz 1=121(LC 12)
 Max Uplift 3=-32(LC 19), 4=-176(LC 12)
 Max Grav 1=64(LC 21), 3=45(LC 12), 4=143(LC 19)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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) Gable requires continuous bottom chord bearing.
- 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.
- 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 6) Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 4=176.



February 13, 2020

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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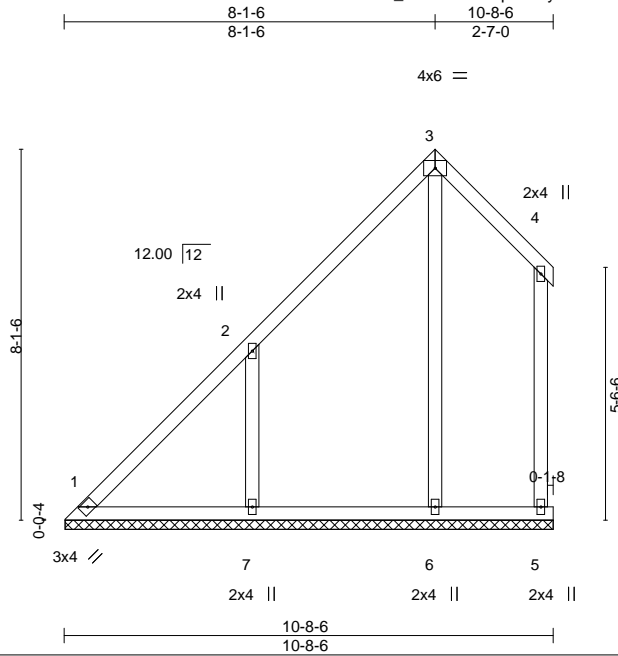
818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss V17	Truss Type Valley	Qty 6	Ply 1	H&H/Southport/ Job Reference (optional)	140248738
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:09:08 2020 Page 1

ID: oMYUFR_W5RnH0V88pNA3fyzorLo-S0Oqp3QWGJmVYzpx56k9YgtZfyRCeFIHPW43SzldO9



Scale = 1:50.4

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 0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.29	Horz(CT)	-0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 62 lb	FT = 20%

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

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

REACTIONS. All bearings 10-8-2.
 (lb) - Max Horz 1=448(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 6 except 1=112(LC 10), 5=127(LC 13), 7=538(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 5 except 1=284(LC 12), 6=431(LC 19), 7=562(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-493/343
 WEBS 3-6=-252/134, 2-7=-603/576

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
 - 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, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 1=112, 5=127, 7=538.



February 13, 2020

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 2227286	Truss V18	Truss Type Valley	Qty 6	Ply 1	H&H/Southport/ Job Reference (optional)	140248739
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Builders FirstSource, Sumter, SC - 29153,

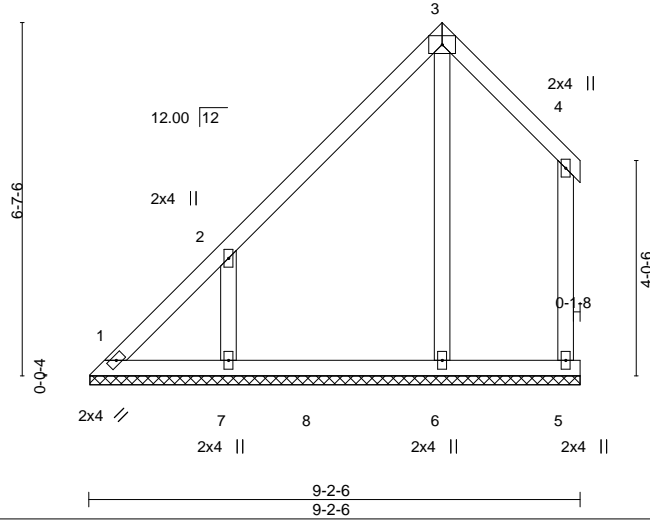
8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:09:09 2020 Page 1

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4x6 =

Scale = 1:43.1



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 0.31	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.19	Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 50 lb	FT = 20%

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

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

REACTIONS. All bearings 9-2-2.
(lb) - Max Horz 1=344(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) except 1=-152(LC 10), 5=-127(LC 13), 6=-104(LC 12), 7=-452(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 5 except 1=279(LC 12), 6=435(LC 19), 7=441(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-431/293
WEBS 3-6=-262/149, 2-7=-522/507

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
 - 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, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 152 lb uplift at joint 1, 127 lb uplift at joint 5, 104 lb uplift at joint 6 and 452 lb uplift at joint 7.



February 13, 2020

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 2227286	Truss V19	Truss Type GABLE	Qty 6	Ply 1	H&H/Southport/ Job Reference (optional)	140248740
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Builders FirstSource, Sumter, SC - 29153,

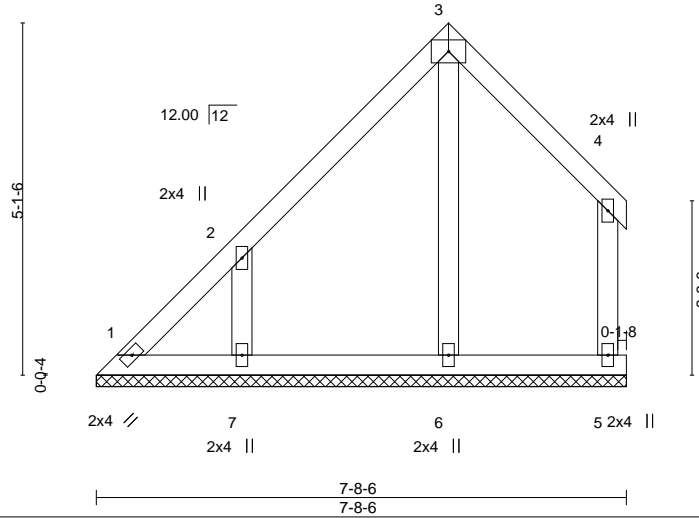
8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:09:10 2020 Page 1

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4x6 =

Scale = 1:33.5



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)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	-0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 40 lb	FT = 20%

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

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

REACTIONS. All bearings 7-8-6.
(lb) - Max Horz 1=239(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 6 except 1=122(LC 10), 5=134(LC 13), 7=340(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=264(LC 19), 7=316(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-287/233
WEBS 2-7=-392/385

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
 - 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.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 1=122, 5=134, 7=340.



February 13, 2020

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.



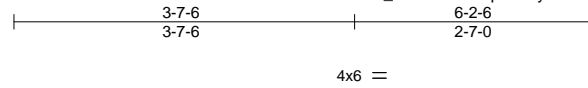
818 Soundside Road
Edenton, NC 27932

Job 2227286	Truss V20	Truss Type Valley	Qty 6	Ply 1	H&H/Southport/ Job Reference (optional)	140248741
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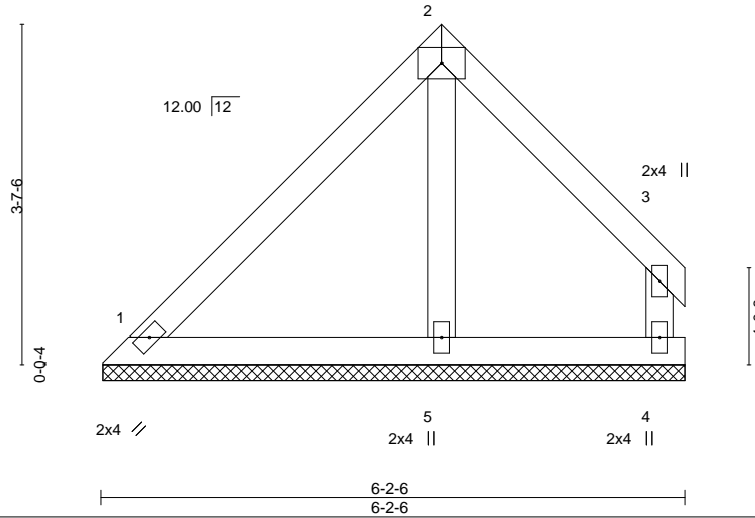
Builders FirstSource, Sumter, SC - 29153,

8.240 s Dec 6 2019 MiTek Industries, Inc. Thu Feb 13 07:09:10 2020 Page 1

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Scale = 1:24.4



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 0.35	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00		n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						
								Weight: 27 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-2-6 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=124/6-2-2, 4=83/6-2-2, 5=239/6-2-2
 Max Horz 1=140(LC 9)
 Max Uplift 1=-125(LC 13), 4=-138(LC 13), 5=-64(LC 9)
 Max Grav 1=151(LC 20), 4=115(LC 20), 5=306(LC 19)

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=150mph (3-second gust) Vasd=119mph; 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 exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 1=125, 4=138.



February 13, 2020

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.



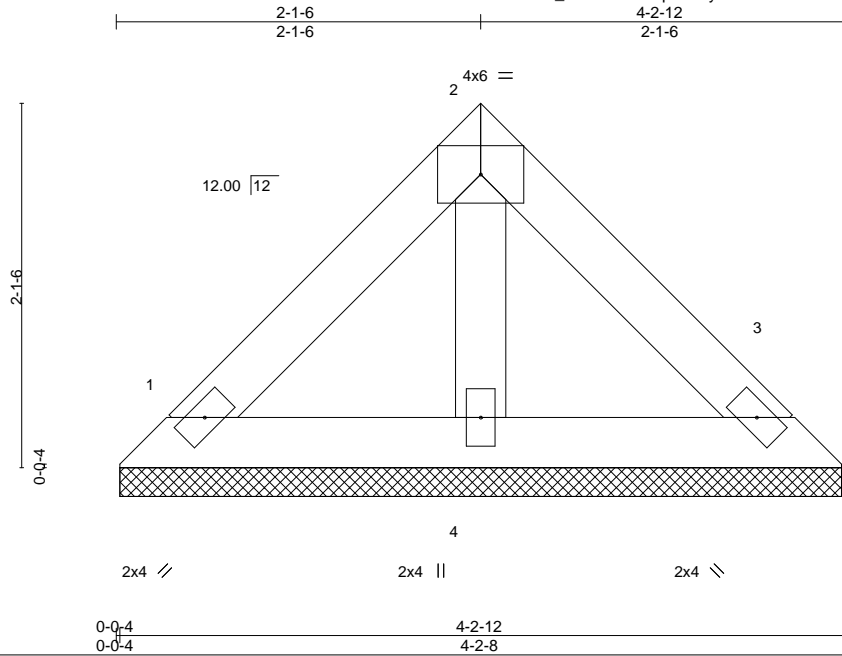
818 Soundside Road
 Edenton, NC 27932

Job 2227286	Truss V21	Truss Type Valley	Qty 6	Ply 1	H&H/Southport/ Job Reference (optional)	140248742
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Builders FirstSource, Sumter, SC - 29153,

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Scale = 1:13.4

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 0.10	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 16 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=85/4-2-4, 3=85/4-2-4, 4=112/4-2-4
Max Horz 1=-78(LC 8)
Max Uplift 1=-55(LC 13), 3=-55(LC 13), 4=-14(LC 12)
Max Grav 1=85(LC 1), 3=85(LC 1), 4=112(LC 19)

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=150mph (3-second gust) Vasd=119mph; 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
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



February 13, 2020

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

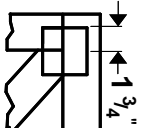
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



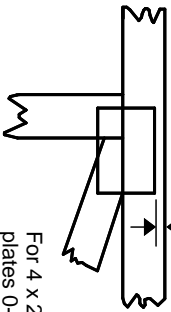
818 Soundside Road
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Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

* Plate location details available in **MITrak 20/20 software or upon request.**

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



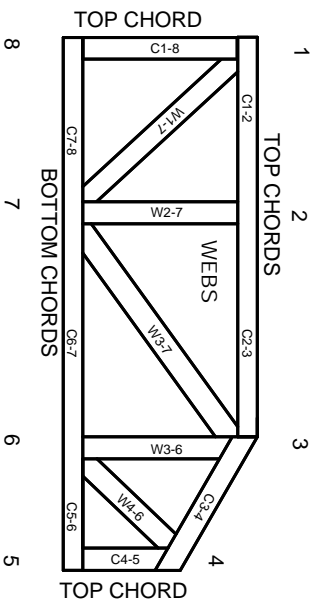
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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

6-4-8
dimensions shown in ft-in-sixteenths
(Drawings not to scale)



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MITek Engineering Reference Sheet: MII-7473 rev. 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.