

RE: 654050 - H&H/Hatteras/

Trenco
 818 Soundside Rd
 Edenton, NC 27932

Site Information:

Project Customer: H AND H Project Name: 654050
 Lot/Block: A Subdivision: All
 Model:
 Address:
 City: Fayetteville 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: 120 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

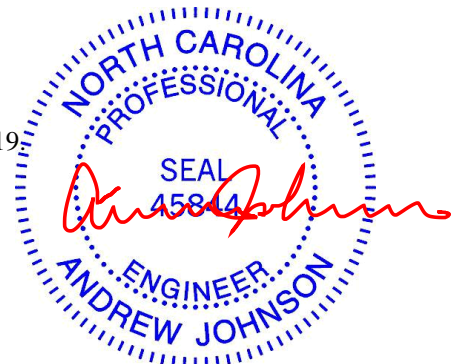
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I36507735	A01	3/25/19	35	I36507769	E05	3/25/19
2	I36507736	A02	3/25/19	36	I36507770	J01	3/25/19
3	I36507737	A03	3/25/19	37	I36507771	J02	3/25/19
4	I36507738	A04	3/25/19	38	I36507772	J03	3/25/19
5	I36507739	A05	3/25/19	39	I36507773	J04	3/25/19
6	I36507740	A06	3/25/19	40	I36507774	J05	3/25/19
7	I36507741	A07	3/25/19	41	I36507775	J06	3/25/19
8	I36507742	A08	3/25/19	42	I36507776	J07	3/25/19
9	I36507743	A09	3/25/19	43	I36507777	J08	3/25/19
10	I36507744	A10	3/25/19	44	I36507778	J09	3/25/19
11	I36507745	A11	3/25/19	45	I36507779	J10	3/25/19
12	I36507746	A12	3/25/19	46	I36507780	J11	3/25/19
13	I36507747	A14	3/25/19	47	I36507781	J12	3/25/19
14	I36507748	A15	3/25/19	48	I36507782	J17	3/25/19
15	I36507749	A16	3/25/19	49	I36507783	J18	3/25/19
16	I36507750	A17	3/25/19	50	I36507784	J19	3/25/19
17	I36507751	A18	3/25/19	51	I36507785	J20	3/25/19
18	I36507752	B01	3/25/19	52	I36507786	J21	3/25/19
19	I36507753	B02	3/25/19	53	I36507787	J22	3/25/19
20	I36507754	B03	3/25/19	54	I36507788	J23	3/25/19
21	I36507755	C01	3/25/19	55	I36507789	J24	3/25/19
22	I36507756	C02	3/25/19				
23	I36507757	C03	3/25/19				
24	I36507758	C04	3/25/19				
25	I36507759	C05	3/25/19				
26	I36507760	C07	3/25/19				
27	I36507761	CP01	3/25/19				
28	I36507762	CP02	3/25/19				
29	I36507763	D01	3/25/19				
30	I36507764	D02	3/25/19				
31	I36507765	D03	3/25/19				
32	I36507766	E01	3/25/19				
33	I36507767	E02	3/25/19				
34	I36507768	E04	3/25/19				

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

Truss Design Engineer's Name: Johnson, Andrew

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

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



March 25, 2019

Job 654050	Truss A01	Truss Type GABLE	Qty 5	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507735
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Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:03:05 2019 Page 1

ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-A_kC45HcSxWcnOj9Eq8ApRmjzQWLkhAwCYeCTNzXPp4



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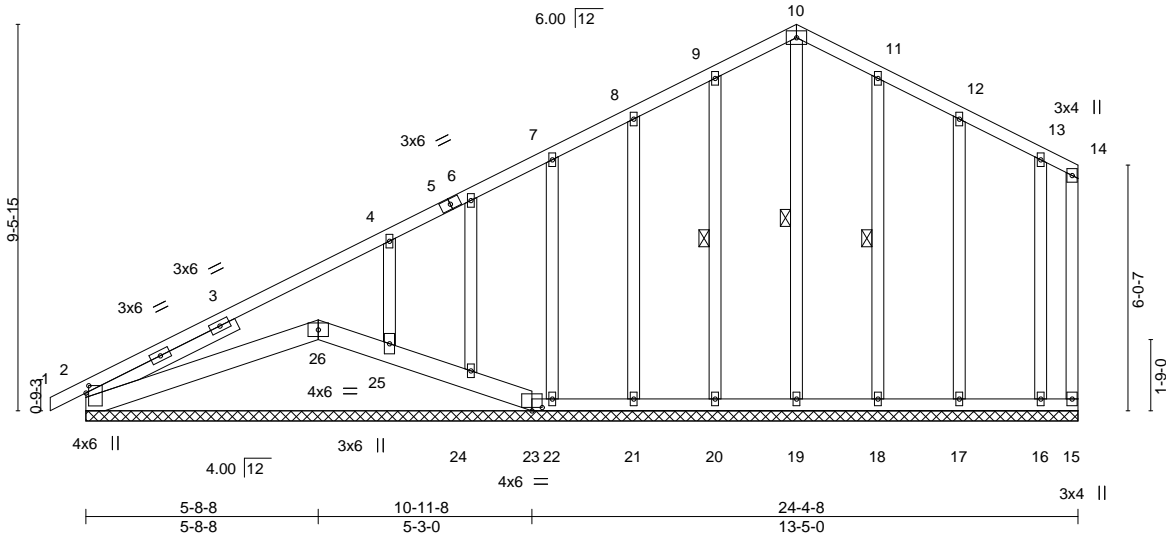


Plate Offsets (X,Y)-- [2:0-2-3,0-0-13], [23:0-3-0,0-1-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	1-9-8	TC 0.51	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.18	Vert(LL) -0.00 1 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.11	Vert(CT) 0.01 1 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.00 15 n/a n/a		
	Code IRC2015/TPI2014			Weight: 190 lb	FT = 20%

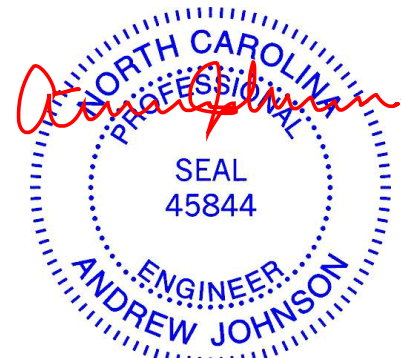
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
15-23: 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.3
SLIDER Left 2x4 SP No.2 4-1-10

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, Except: 6-0-0 oc bracing: 24-25.
WEBS 1 Row at midpt 10-19, 9-20, 11-18

REACTIONS. All bearings 24-4-8.
(lb) - Max Horz 2=278(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 2, 26, 23, 15, 19, 20, 21, 22, 18, 17, 16 except 25=-246(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 26, 23, 15, 19, 20, 21, 22, 24, 18, 17, 16 except 2=280(LC 20), 25=343(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-257/163, 9-10=-155/254, 10-11=-155/254
WEBS 4-25=-362/330

- NOTES-** (11)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 26, 23, 15, 19, 20, 21, 22, 18, 17, 16 except (jt=lb) 25=246.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 26, 24, 25.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job 654050	Truss A02	Truss Type Roof Special	Qty 30	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507736
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Builders FirstSource, Sumter, SC - 29153,

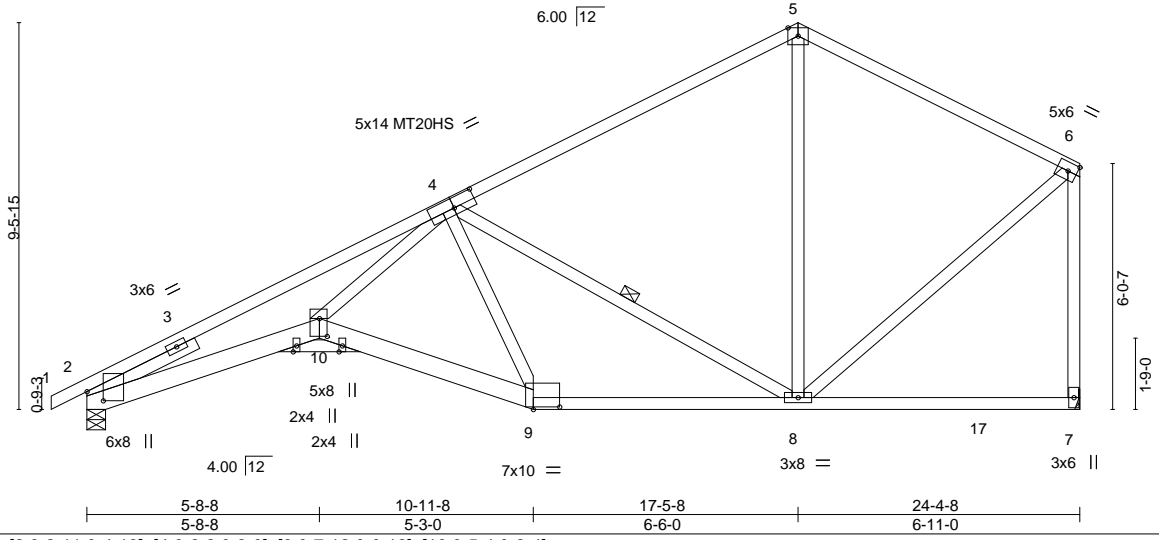
8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:03:08 2019 Page 1

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5x6 =

Scale = 1:56.6



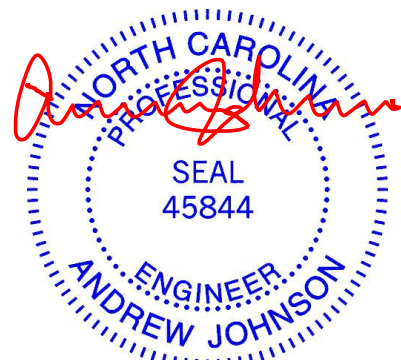
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.64	Vert(LL)	-0.14	9-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.79	Vert(CT)	-0.30	9-10	>962	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.74	Horz(CT)	0.15	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.17	9-10	>999	240		
									Weight: 159 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 2-10,9-10: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 6-7: 2x4 SP No.2	WEBS 1 Row at midpt 4-8
SLIDER Left 2x4 SP No.2 3-0-0	

REACTIONS. (lb/size) 2=1023/0-5-8, 7=968/Mechanical
 Max Horz 2=319(LC 12)
 Max Uplift 2=-201(LC 12), 7=-187(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2848/1106, 4-5=-732/288, 5-6=-696/294, 6-7=-905/370
 BOT CHORD 2-10=-1175/2726, 9-10=-632/1405, 8-9=-485/1213
 WEBS 4-10=-718/1777, 4-9=-310/281, 4-8=-781/362, 5-8=0/251, 6-8=-211/693

- NOTES-** (10)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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
 - 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.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=201, 7=187.
 - 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.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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Job	Truss	Truss Type	Qty	Ply	H&H/Hatteras/	136507737
654050	A03	ROOF SPECIAL	20	1		
Builders FirstSource, Sumter, SC - 29153,						8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:03:10 2019 Page 1
-0-10-8 8-10-8 17-5-8 26-0-8 34-11-0 35-9-8						ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-XyX57pLKHT9vt9c71NjLWVTXOa1UPobfLpLz8bzXPp?
0-10-8 8-10-8 8-7-0 8-7-0 8-10-8 0-10-8						

Scale: 3/16"=1'

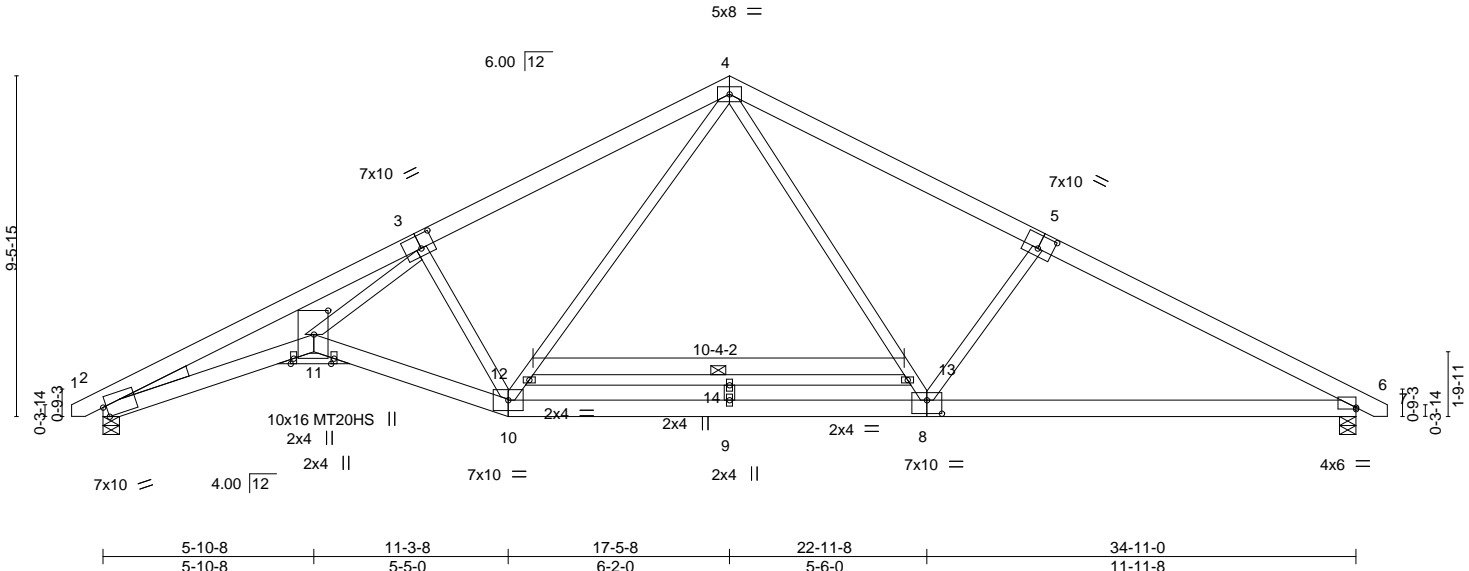


Plate Offsets (X,Y)--	[2:0-1-2,Edge], [3:0-4-8,0-4-8], [5:0-5-0,0-4-8], [6:0-0-0,0-0-8], [8:0-5-0,0-4-8], [11:0-8-0,0-4-12]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.64	Vert(LL)	-0.46	9-10	>908	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.95	Vert(CT)	-0.71	9-10	>592	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.68	Horz(CT)	0.25	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.25	10-11	>999	240		
									Weight: 254 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1 *Except*	BOT CHORD Rigid ceiling directly applied.
2-11: 2x6 SP DSS, 6-8: 2x6 SP No.2, 15-16: 2x4 SP No.2	WEBS 1 Row at midpt 12-13
WEBS 2x4 SP No.3 *Except*	
3-11,12-13: 2x4 SP No.2	
WEDGE	
Left: 2x4 SP No.3	

REACTIONS. (lb/size) 2=1438/0-5-8, 6=1438/0-5-8
 Max Horz 2=-174(LC 17)
 Max Uplift 2=-268(LC 12), 6=-268(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-5081/1447, 3-4=-2224/829, 4-5=-2209/788, 5-6=-2446/795
 BOT CHORD 2-11=-1203/4597, 10-11=-703/2568, 9-10=-265/1556, 8-9=-265/1556, 6-8=-567/2100
 WEBS 3-11=-679/2756, 3-10=-1226/583, 10-12=-246/857, 4-12=-259/951, 4-13=-206/1000,
 8-13=-195/908, 5-8=-498/392

- NOTES-** (9)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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
 - 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.
 - Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=268, 6=268.
 - 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.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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



Job 654050	Truss A03	Truss Type ROOF SPECIAL	Qty 20	Ply 1	H&H/Hatteras/ Job Reference (optional)	I36507737
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Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:03:10 2019 Page 2
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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 11-17=-20, 10-11=-20, 10-20=-20

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 654050	Truss A04	Truss Type ROOF SPECIAL	Qty 10	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507738
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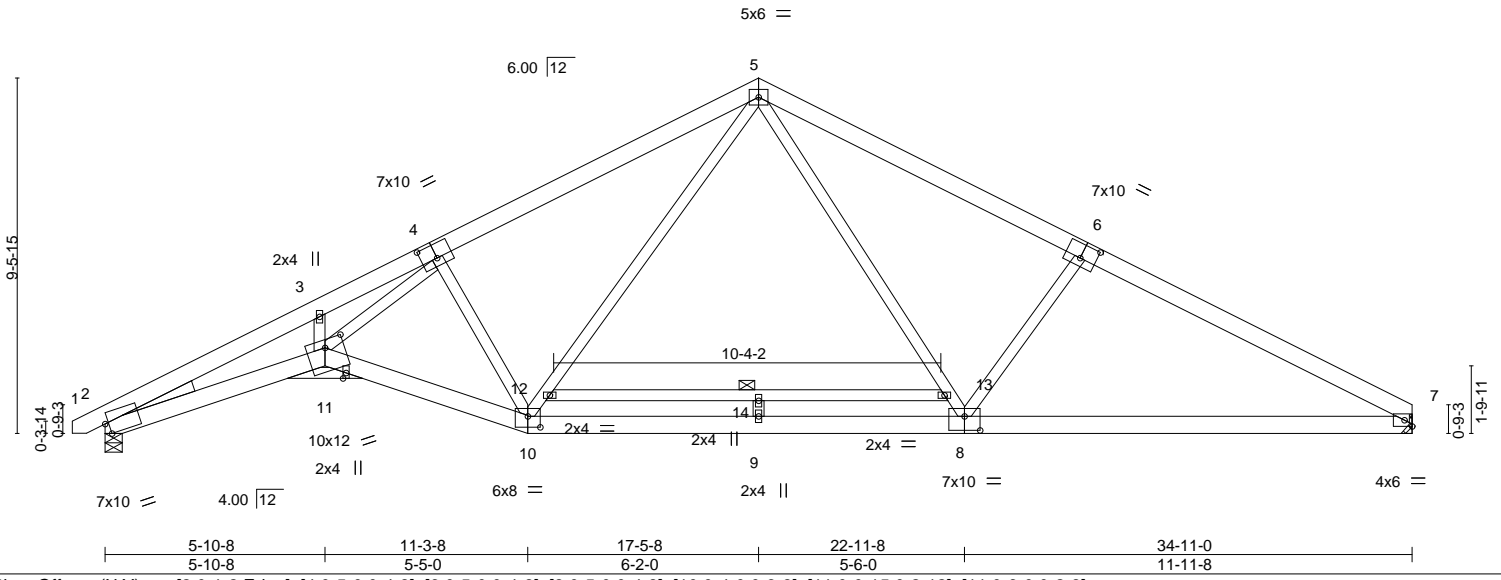
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8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:03:13 2019 Page 1

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Scale = 1:61.6



LOADING (psf)	SPACING-	2-1-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.93	Vert(LL)	-0.48	9-10	>869	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.92	Vert(CT)	-0.74	9-10	>570		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.78	Horz(CT)	0.23	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.23	10-11	>999	Weight: 253 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-4: 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-5-10 oc purlins.
BOT CHORD 2x6 SP No.1 *Except* 2-11: 2x6 SP DSS, 10-11: 2x6 SP No.2, 11-15: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-5-7 oc bracing.
WEBS 2x4 SP No.3 *Except* 4-11,12-13: 2x4 SP No.2	WEBS 1 Row at midpt 12-13
WEDGE Left: 2x4 SP No.3	

REACTIONS. (lb/size) 2=1498/0-5-8, 7=1454/Mechanical
 Max Horz 2=188(LC 16)
 Max Uplift 2=-279(LC 12), 7=-260(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-5142/1533, 3-4=-4877/1541, 4-5=-2359/876, 5-6=-2299/824, 6-7=-2549/833
 BOT CHORD 2-11=-1312/4622, 10-11=-778/2798, 9-10=-287/1598, 8-9=-287/1598, 7-8=-612/2192
 WEBS 4-11=-728/2555, 4-10=-1464/650, 10-12=-277/917, 5-12=-292/1021, 5-13=-225/1077,
 8-13=-213/975, 6-8=-535/422, 3-11=-35/431

- NOTES-** (8)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=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.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=279, 7=260.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-5=-62, 5-7=-63, 11-16=-21, 10-11=-21, 10-19=-21



Job 654050	Truss A05	Truss Type Roof Special	Qty 40	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507739
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Scale = 1:61.8

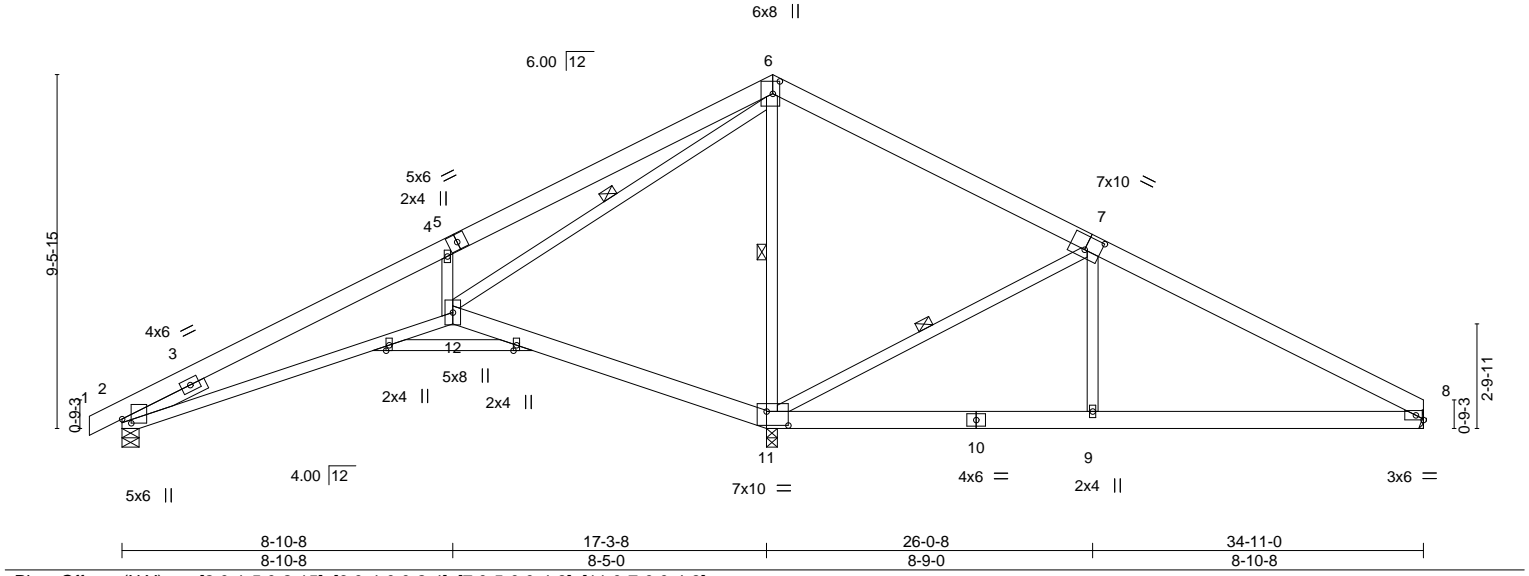


Plate Offsets (X,Y)-- [2:0-1-5,0-2-15], [6:0-4-0,0-2-4], [7:0-5-0,0-4-8], [11:0-7-0,0-4-8]

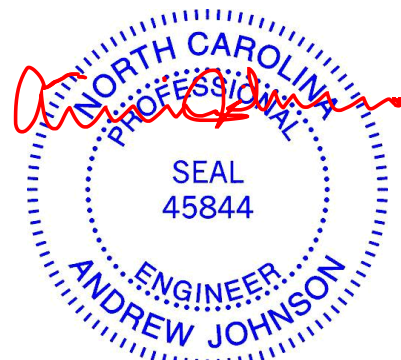
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.43	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.45	Vert(LL) -0.08 12-17 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.53	Vert(CT) -0.20 12-17 >999 240		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Horz(CT) 0.05 11 n/a n/a		
			Wind(LL) 0.09 12-17 >999 240	Weight: 231 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.2 *Except* 2-12,13-14: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-11, 7-11, 6-12
SLIDER Left 2x4 SP No.2 2-6-0	

REACTIONS. (lb/size) 2=438/0-5-8, 11=2005/0-3-8, 8=403/Mechanical
 Max Horz 2=184(LC 16)
 Max Uplift 2=-87(LC 13), 11=-390(LC 12), 8=-203(LC 13)
 Max Grav 2=444(LC 23), 11=2005(LC 1), 8=551(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-592/209, 4-6=-582/424, 6-7=-109/707, 7-8=-651/318
 BOT CHORD 2-12=-205/497, 11-12=-619/371, 9-11=-170/492, 8-9=-167/497
 WEBS 4-12=-575/444, 6-11=-1239/384, 7-11=-865/410, 7-9=0/385, 6-12=-494/1194

- NOTES-** (9)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=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.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (it=lb) 11=390, 8=203.
 - 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.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 25, 2019

Job 654050	Truss A06	Truss Type GABLE	Qty 5	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507740
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ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-mhaV0uSO9EHdSYor3mOSNOL9cCHR0?F_Qj1xyZzXPos



4x6 =

Scale: 3/16"=1'

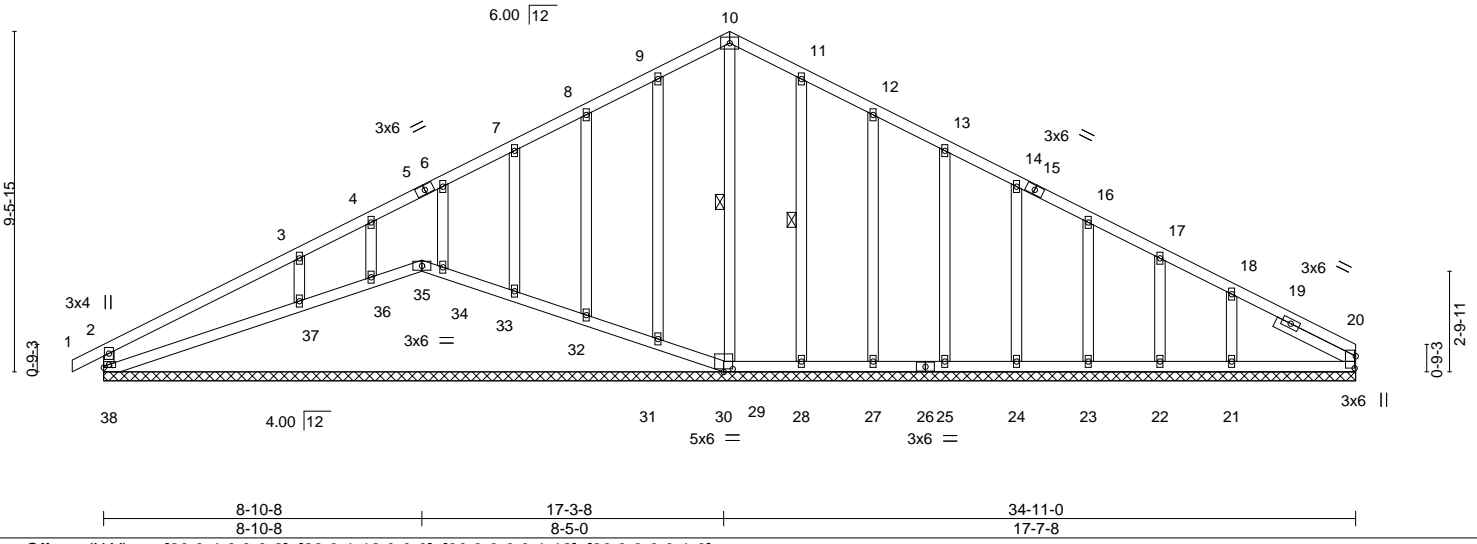


Plate Offsets (X, Y)--	[20:0-4-0,0-0-6], [29:0-1-12,0-0-0], [30:0-0-0,0-1-12], [30:0-3-0,0-1-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.29	Vert(LL)	-0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.23	Vert(CT)	0.01	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.01	20	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 216 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.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 10-29, 11-28
OTHERS 2x4 SP No.3	
SLIDER Right 2x4 SP No.2 2-6-0	

REACTIONS. All bearings 34-11-0.
 (lb) - Max Horz 38=-168(LC 17)
 Max Uplift All uplift 100 lb or less at joint(s) 38, 35, 30, 20, 31, 32, 33, 34, 36, 28, 27, 25, 24, 23, 22 except 37=-196(LC 12), 21=-129(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 35, 30, 20, 31, 32, 33, 34, 36, 28, 27, 25, 24, 23, 22 except 38=273(LC 1), 29=259(LC 12), 37=411(LC 23), 21=256(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 6-7=-169/281, 7-8=-186/333, 8-9=-207/392, 9-10=-224/439, 10-11=-224/439, 11-12=-207/392, 12-13=-186/333, 13-14=-168/279, 2-38=-263/178
 WEBS 10-29=-300/113, 3-37=-295/256

- NOTES-** (11)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 38, 35, 30, 20, 31, 32, 33, 34, 36, 28, 27, 25, 24, 23, 22 except (jt=lb) 37=196, 21=129.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 35, 31, 32, 33, 34, 36, 37.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 25, 2019

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

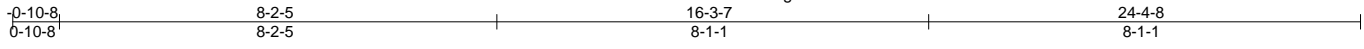
ENGINEERING BY
TRENCO
 A MiTek Affiliate

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 Edenton, NC 27932

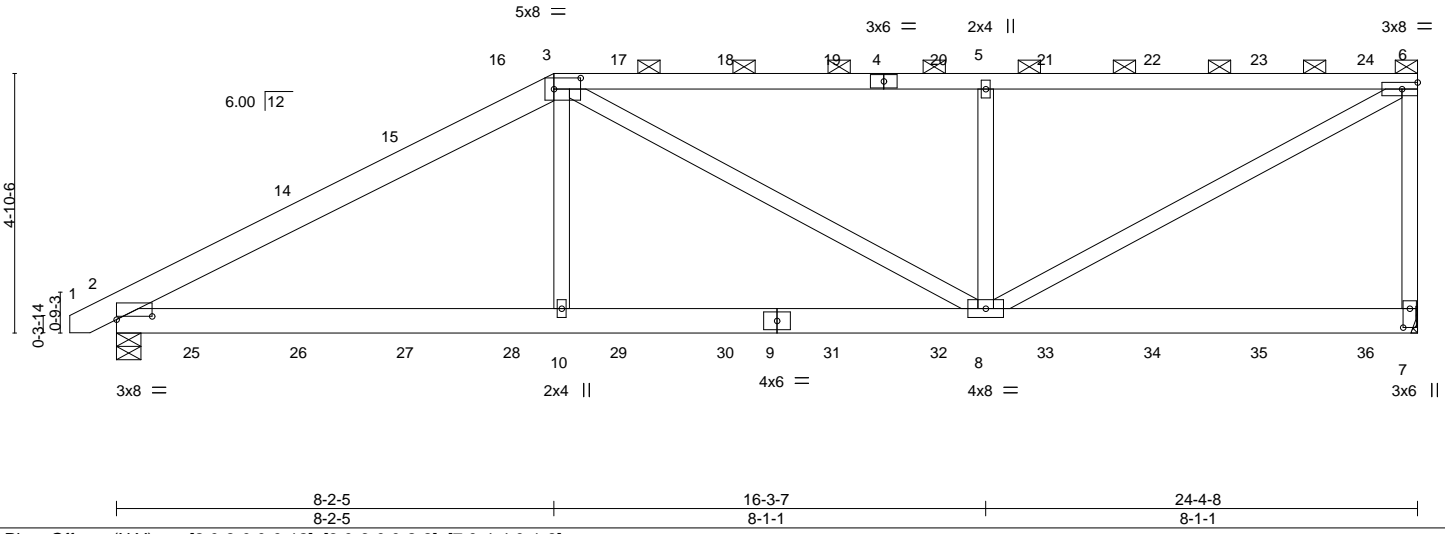
Job 654050	Truss A07	Truss Type HALF HIP GIRDER	Qty 2	Ply 2	H&H/Hatteras/ Job Reference (optional)	136507741
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ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-BFFdewUGS9fCJ?WQkvx9?1zY1QE3DJuQ6hFcZuzXPop



Scale = 1:43.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.79	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.45	Vert(LL) 0.07 10-13 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.34	Vert(CT) -0.10 10-13 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.02 7 n/a n/a		
	Code IRC2015/TPI2014			Weight: 298 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except*	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.): 3-6.
3-4: 2x4 SP No.2, 4-6: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
BOT CHORD 2x6 SP No.2	
WEBS 2x4 SP No.2	

REACTIONS. (lb/size) 7=1908/Mechanical, 2=1936/0-5-8
 Max Horz 2=200(LC 23)
 Max Uplift 7=-710(LC 5), 2=-620(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2829/945, 3-5=-2448/914, 5-6=-2448/914, 6-7=-1721/778
 BOT CHORD 2-10=-888/2412, 8-10=-887/2430
 WEBS 3-10=0/647, 5-8=-993/757, 6-8=-1012/2737

- 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: 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.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=710, 2=620.
 - 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) 46 lb down and 77 lb up at 3-5-8, 21 lb down and 45 lb up at 5-5-8, 134 lb down and 115 lb up at 7-5-8, 149 lb down and 137 lb up at 9-5-8, 149 lb down and 137 lb up at 11-5-8, 149 lb down and 137 lb up at 13-5-8, 149 lb down and 137 lb up at 15-5-8, 149 lb down and 137 lb up at 17-5-8, 149 lb down and 137 lb up at 19-5-8, and 149 lb down and 137 lb up at 21-5-8, and 146 lb down and 137 lb up at 23-5-8 on top chord, and 210 lb down and 89 lb up at 1-5-8, 105 lb down and 24 lb up at 3-5-8, 138 lb down and 67 lb up at 5-5-8, 79 lb down and 50 lb up at 7-5-8, 68 lb down at 9-5-8, 68 lb down at 11-5-8, 68 lb down at 13-5-8, 68 lb down at 15-5-8, 68 lb down at 17-5-8, 68 lb down at 19-5-8, and 68 lb down at 21-5-8, and 73 lb down at 23-5-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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Job 654050	Truss A07	Truss Type HALF HIP GIRDER	Qty 2	Ply 2	H&H/Hatteras/ Job Reference (optional)	I36507741
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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, 3-6=-60, 7-11=-20

Concentrated Loads (lb)

Vert: 14=-46(F) 15=-1(F) 16=-74(F) 17=-95(F) 18=-95(F) 19=-95(F) 20=-95(F) 21=-95(F) 22=-95(F) 23=-95(F) 24=-102(F) 25=-210(F) 26=-105(F) 27=-138(F)
28=-77(F) 29=-55(F) 30=-55(F) 31=-55(F) 32=-55(F) 33=-55(F) 34=-55(F) 35=-55(F) 36=-57(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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Job 654050	Truss A08	Truss Type Hip	Qty 2	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507742
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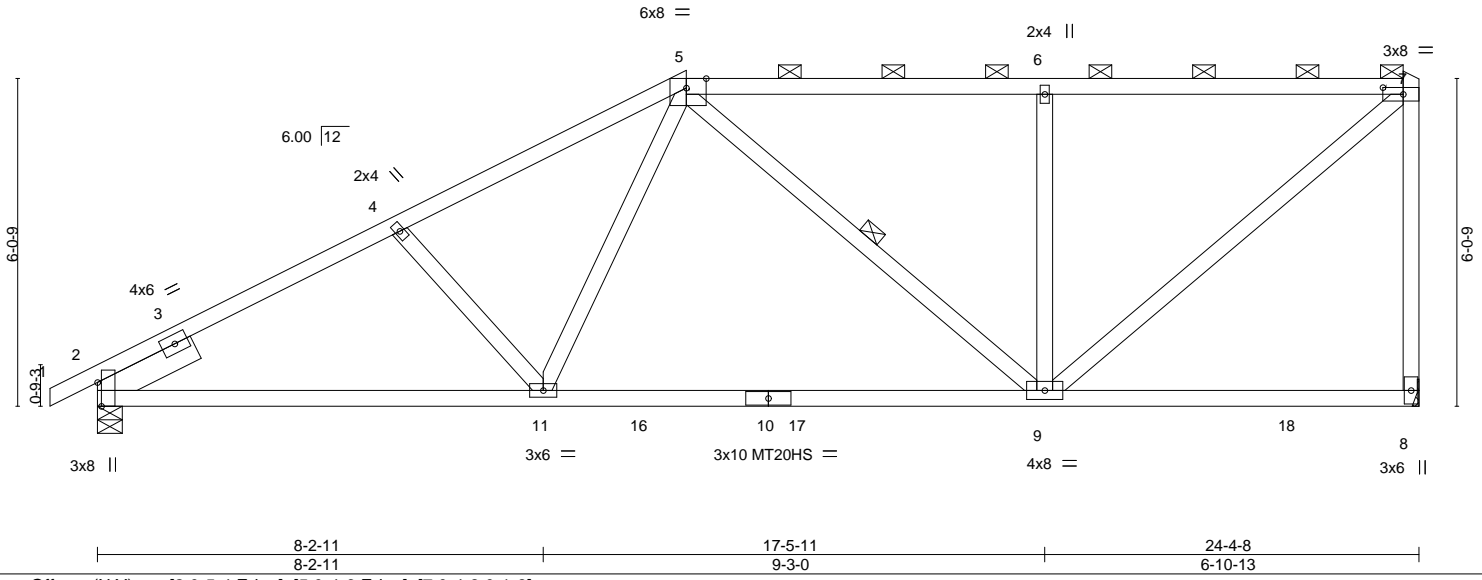
Builders FirstSource, Sumter, SC - 29153,

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ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-fSp?sFVuDTn3x95dlcSOYEWmdpWqyj5aKL?95LzXPoo

-0-10-8	5-6-15	10-10-5	17-5-11	24-0-11	24-4-8
0-10-8	5-6-15	5-3-7	6-7-5	6-7-0	0-3-13

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 0.61	Vert(LL)	-0.18	9-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.74	Vert(CT)	-0.36	9-11	>807	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.53	Horz(CT)	0.03	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.06	9-11	>999		Weight: 137 lb FT = 20%

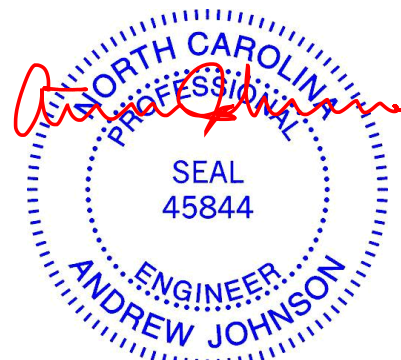
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-4-12 max.): 5-7.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 5-9
SLIDER 7-8: 2x4 SP No.2	
Left 2x6 SP No.2 1-11-12	

REACTIONS. (lb/size) 2=1023/0-5-8, 8=968/Mechanical
 Max Horz 2=253(LC 12)
 Max Uplift 2=-169(LC 12), 8=-224(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1511/434, 4-5=-1352/406, 5-6=-890/283, 6-7=-888/282, 7-8=-913/331
 BOT CHORD 2-11=-559/1295, 9-11=-383/1011
 WEBS 5-11=-71/425, 6-9=-461/251, 7-9=-359/1135

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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
- 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.
- 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=169, 8=224.
- 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.



March 25, 2019

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818 Soundside Road
 Edenton, NC 27932

Job 654050	Truss A09	Truss Type Hip	Qty 2	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507743
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ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-bqxmHxW8l41nATF?P1VsdFb2kdDGEvsfUG9DzXPom



5x14 MT20HS =

Scale: 1/4"=1'

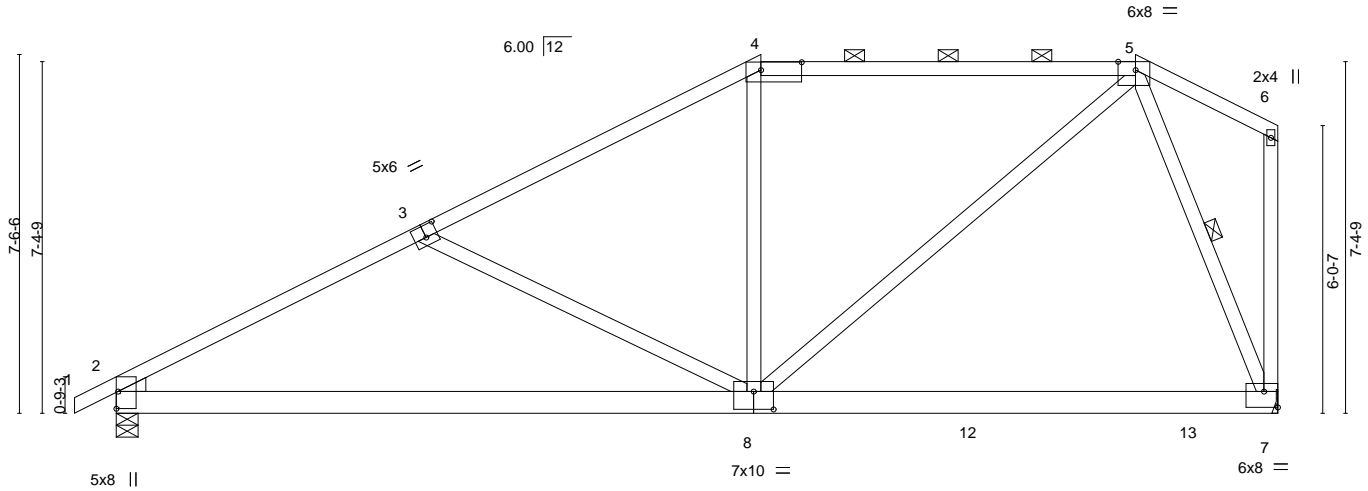


Plate Offsets (X, Y)--	[2:Edge,0-0-7], [2:0-0-4,0-5-2], [2:0-0-2,0-0-4], [3:0-3-0,0-3-0], [4:0-10-4,0-2-0], [5:0-4-6,Edge], [7:Edge,0-4-0], [8:0-5-0,0-4-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.89	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.68	Vert(LL) -0.16 7-8 >999 360	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.51	Vert(CT) -0.32 8-11 >909 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.02 7 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.04 8 >999 240	Weight: 154 lb	FT = 20%

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

REACTIONS. (lb/size) 2=1023/0-5-8, 7=968/Mechanical
Max Horz 2=280(LC 12)
Max Uplift 2=-189(LC 12), 7=-124(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1505/481, 3-4=-1091/311, 4-5=-898/350
BOT CHORD 2-8=-593/1284, 7-8=-132/354
WEBS 3-8=-435/351, 5-8=-203/737, 5-7=-924/364

- NOTES-** (11)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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
 - 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.
 - 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=189, 7=124.
 - 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.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 25, 2019

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



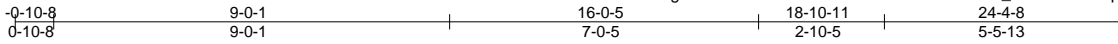
818 Soundside Road
Edenton, NC 27932

Job 654050	Truss A10	Truss Type Hip	Qty 2	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507744
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Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:03:28 2019 Page 1

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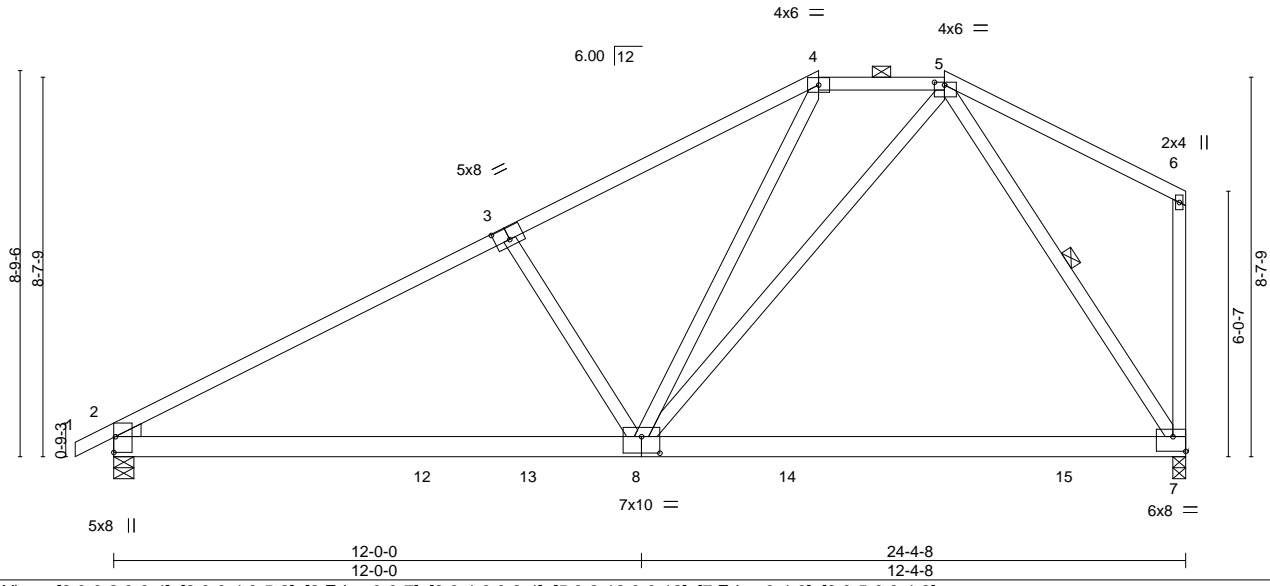


Plate Offsets (X, Y)--	[2:0-0-2,0-0-4], [2:0-0-4,0-5-2], [2:Edge,0-0-7], [3:0-4-0,0-3-4], [5:0-2-12,0-0-12], [7:Edge,0-4-0], [8:0-5-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.61	Vert(LL)	-0.28	7-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.71	Vert(CT)	-0.43	7-8	>681		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.43	Horz(CT)	0.02	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.10	8-11	>999		
								Weight: 159 lb	FT = 20%

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

REACTIONS. (lb/size) 2=1023/0-5-8, 7=968/0-3-8
 Max Horz 2=304(LC 12)
 Max Uplift 2=-200(LC 12), 7=-161(LC 12)
 Max Grav 2=1023(LC 1), 7=1016(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1441/420, 3-4=-1215/418, 4-5=-881/425
 BOT CHORD 2-8=-504/1207, 7-8=-173/473
 WEBS 3-8=-449/371, 4-8=-18/331, 5-8=-197/688, 5-7=-822/315

- NOTES-** (9)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=200, 7=161.
 - 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.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 25, 2019

Job 654050	Truss A11	Truss Type COMMON	Qty 8	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507745
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Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:03:30 2019 Page 1

ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-yokfKfaHacg3HE7zCa41KjJl0cetK4uRbxB1rRzXPoh

0-10-8 8-10-8 17-5-8 26-0-8 34-11-0 35-9-8
 0-10-8 8-10-8 8-7-0 8-7-0 8-10-8 0-10-8

Scale = 1:61.4

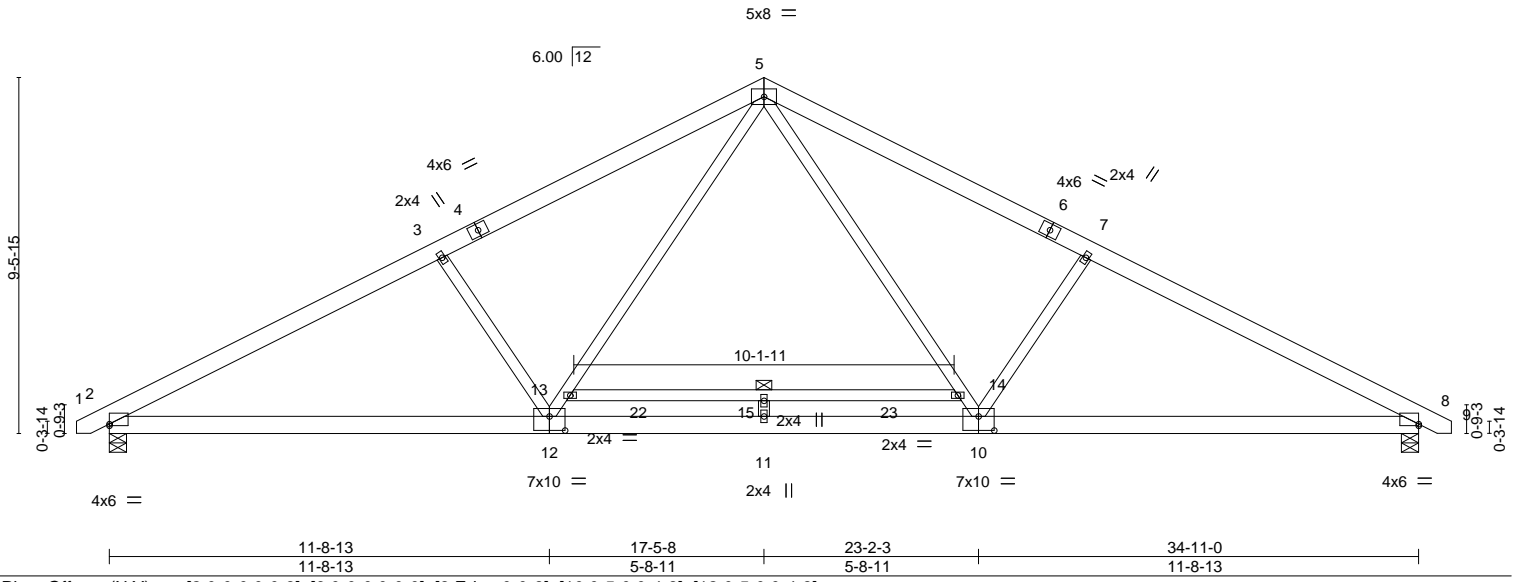


Plate Offsets (X,Y)-- [2:0-0-0,0-0-8], [6:0-0-0,0-0-0], [8:Edge,0-0-8], [10:0-5-0,0-4-8], [12:0-5-0,0-4-8]

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 0.87	Vert(LL) -0.30 11 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.49	Vert(CT) -0.43 11 >973 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-AS	Horz(CT) 0.06 8 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.08 12 >999 240	Weight: 240 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 13-14: 2x4 SP No.2	WEBS 1 Row at midpt 13-14

REACTIONS. (lb/size) 2=1438/0-5-8, 8=1438/0-5-8
 Max Horz 2=-174(LC 13)
 Max Uplift 2=-269(LC 12), 8=-269(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2373/797, 3-5=-2098/802, 5-7=-2098/802, 7-8=-2373/797
 BOT CHORD 2-12=-568/2027, 11-12=-260/1454, 10-11=-260/1454, 8-10=-569/2027
 WEBS 5-14=-231/885, 10-14=-218/779, 7-10=-501/393, 12-13=-218/779, 5-13=-231/885,
 3-12=-501/393

- NOTES-** (7)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=269, 8=269.
 - 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.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-5=-60, 5-9=-60, 16-19=-20



Job 654050	Truss A12	Truss Type COMMON	Qty 4	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507746
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Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:03:32 2019 Page 1

ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-uBsPIKcX5EwnWYHLJ?7WP8OM5SzoYovuPFg7vJzXPof



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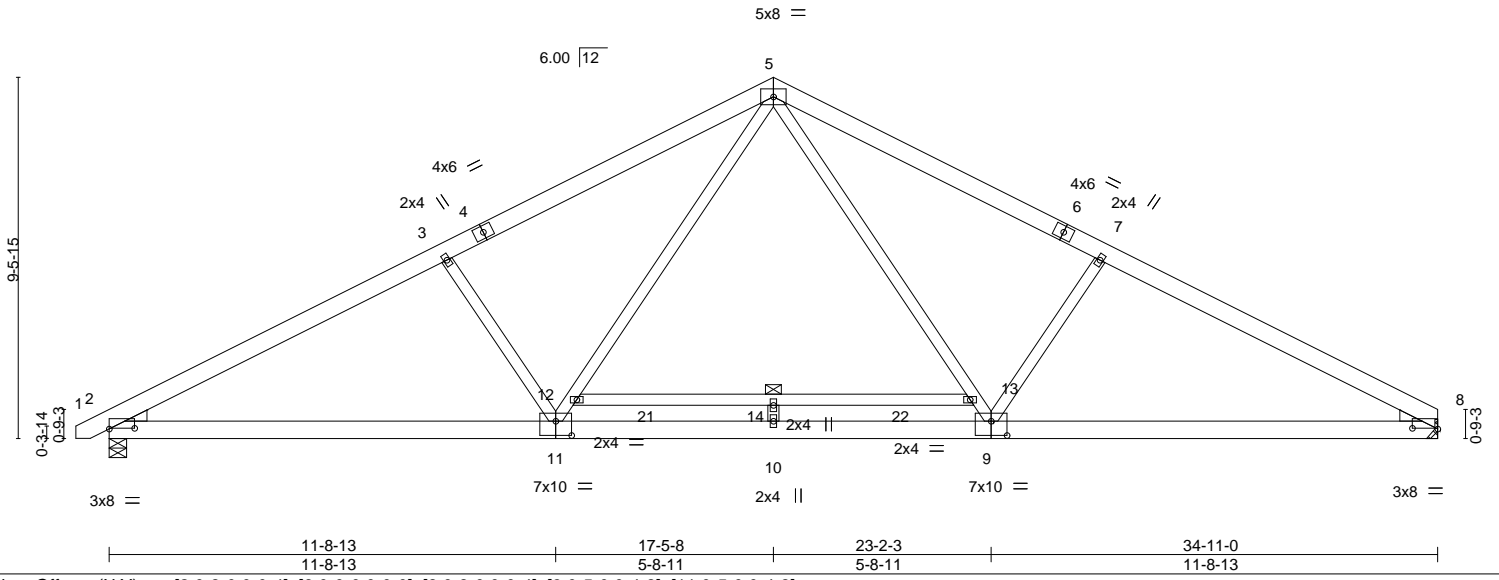


Plate Offsets (X,Y)--	[2:0-8-0,0-0-4], [6:0-0-0,0-0-0], [8:0-8-0,0-0-4], [9:0-5-0,0-4-8], [11:0-5-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.37	Vert(LL)	-0.30	10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.43	10	>974		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.49	Horz(CT)	0.06	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.08	11	>999		
								Weight: 240 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 12-13: 2x4 SP No.2	WEBS 1 Row at midpt 12-13

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

REACTIONS. (lb/size) 2=1438/0-5-8, 8=1396/Mechanical
Max Horz 2=181(LC 16)
Max Uplift 2=-269(LC 12), 8=-251(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2374/798, 3-5=-2099/802, 5-7=-2101/803, 7-8=-2375/798
BOT CHORD 2-11=-584/2027, 10-11=-275/1455, 9-10=-275/1455, 8-9=-585/2029
WEBS 5-13=-232/885, 9-13=-219/779, 7-9=-503/393, 11-12=-218/779, 5-12=-231/885,
3-11=-501/393

- NOTES-** (8)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=269, 8=251.
 - 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.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60, 5-8=-60, 15-18=-20



March 25, 2019

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



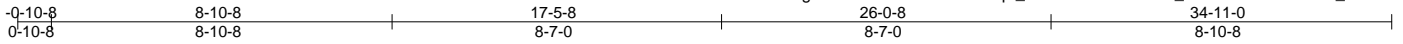
818 Soundside Road
Edenton, NC 27932

Job 654050	Truss A14	Truss Type COMMON	Qty 4	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507747
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Builders FirstSource, Sumter, SC - 29153,

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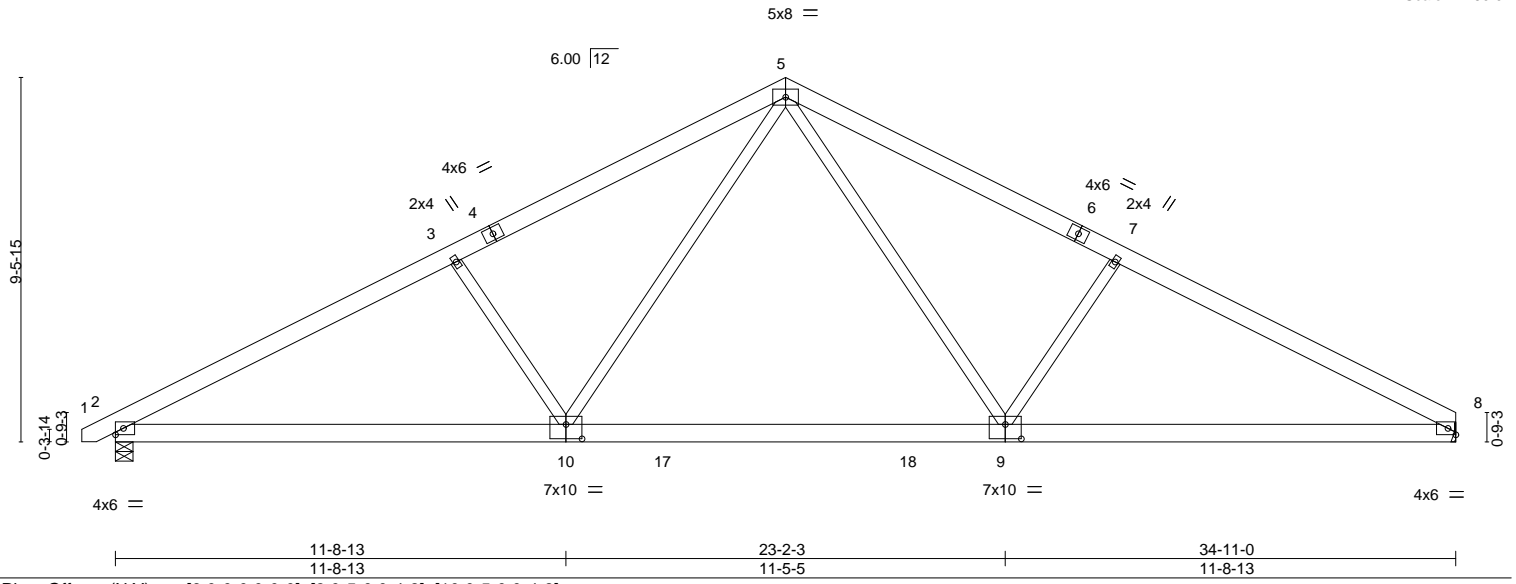


Plate Offsets (X,Y)--	[6:0-0-0,0-0-0], [9:0-5-0,0-4-8], [10:0-5-0,0-4-8]
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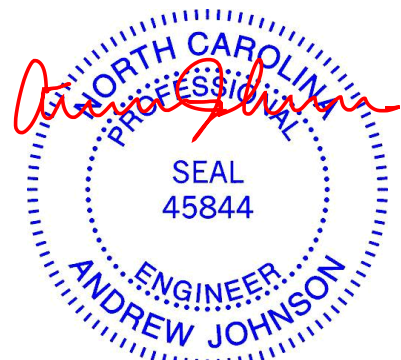
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.32	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.66	Vert(LL) -0.25 9-10 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.50	Vert(CT) -0.39 9-10 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.06 8 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.08 9-10 >999 240	Weight: 222 lb	FT = 20%

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

REACTIONS. (lb/size) 2=1438/0-5-8, 8=1396/Mechanical
 Max Horz 2=181(LC 16)
 Max Uplift 2=-269(LC 12), 8=-251(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2376/797, 3-5=-2101/802, 5-7=-2103/802, 7-8=-2378/798
 BOT CHORD 2-10=-584/2029, 9-10=-249/1370, 8-9=-585/2031
 WEBS 5-9=-230/810, 7-9=-503/393, 5-10=-229/808, 3-10=-501/393

- NOTES-** (8)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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.
 - 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=269, 8=251.
 - 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.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



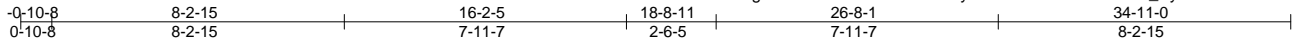
March 25, 2019

Job 654050	Truss A15	Truss Type Hip	Qty 2	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507748
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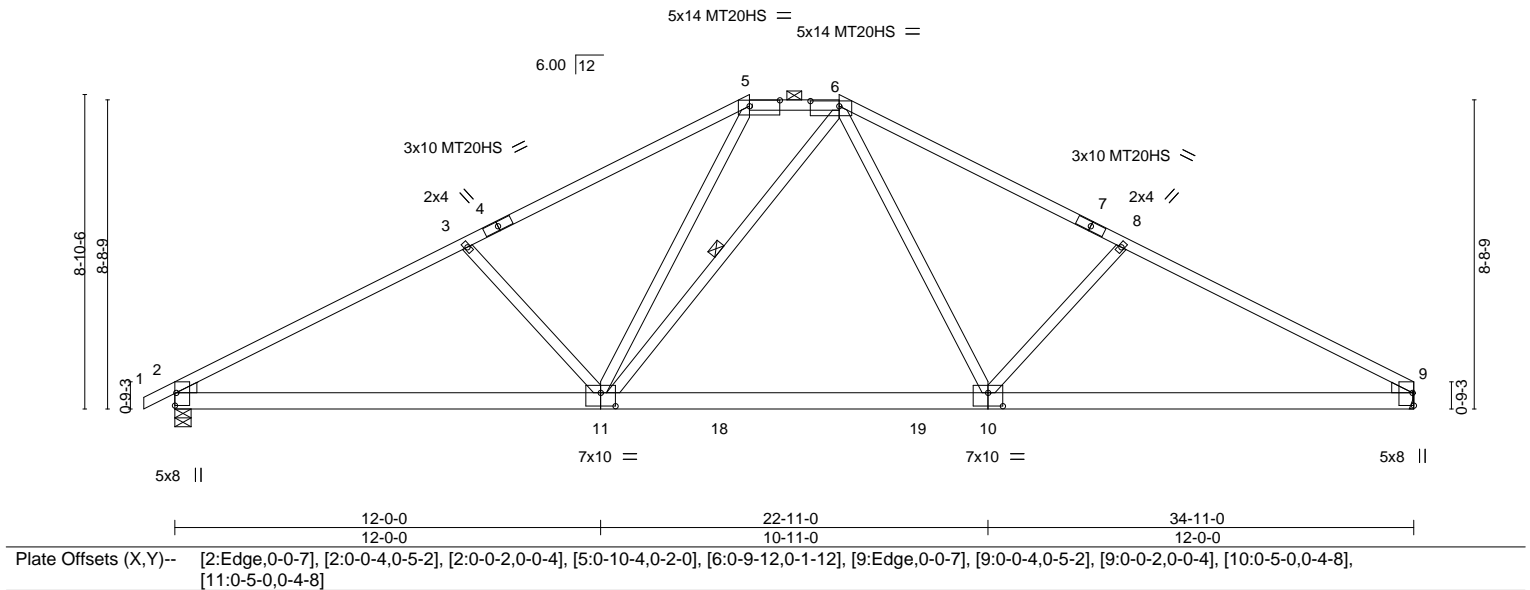
Builders FirstSource, Sumter, SC - 29153,

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ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-my5waif29SQD?9b7YrBSZ_YyW3zLUfrUKseL24zXPob



Scale = 1:64.9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.73	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.64	Vert(LL) -0.27 10-11 >999 360	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.30	Vert(CT) -0.41 10-11 >999 240		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Horz(CT) 0.06 9 n/a n/a		
			Weight(LL) 0.10 10-11 >999 240	Weight: 202 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 (4-3-8 max.): 5-6.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
WEDGE	WEBS 1 Row at midpt 6-11
Left: 2x4 SP No.3, Right: 2x4 SP No.3	

REACTIONS. (lb/size) 2=1450/0-5-8, 9=1396/Mechanical
 Max Horz 2=171(LC 16)
 Max Uplift 2=-264(LC 12), 9=-241(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2344/793, 3-5=-2034/742, 5-6=-1451/667, 6-8=-2035/743, 8-9=-2347/794
 BOT CHORD 2-11=-586/2008, 10-11=-273/1448, 9-10=-587/2011
 WEBS 3-11=-446/370, 5-11=-156/636, 6-11=-248/256, 6-10=-158/672, 8-10=-449/371

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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) 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) 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 (jt=lb) 2=264, 9=241.
 - 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.



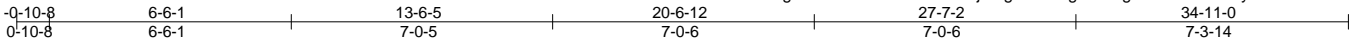
March 25, 2019

Job 654050	Truss A16	Truss Type Half Hip	Qty 2	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507749
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Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:03:38 2019 Page 1

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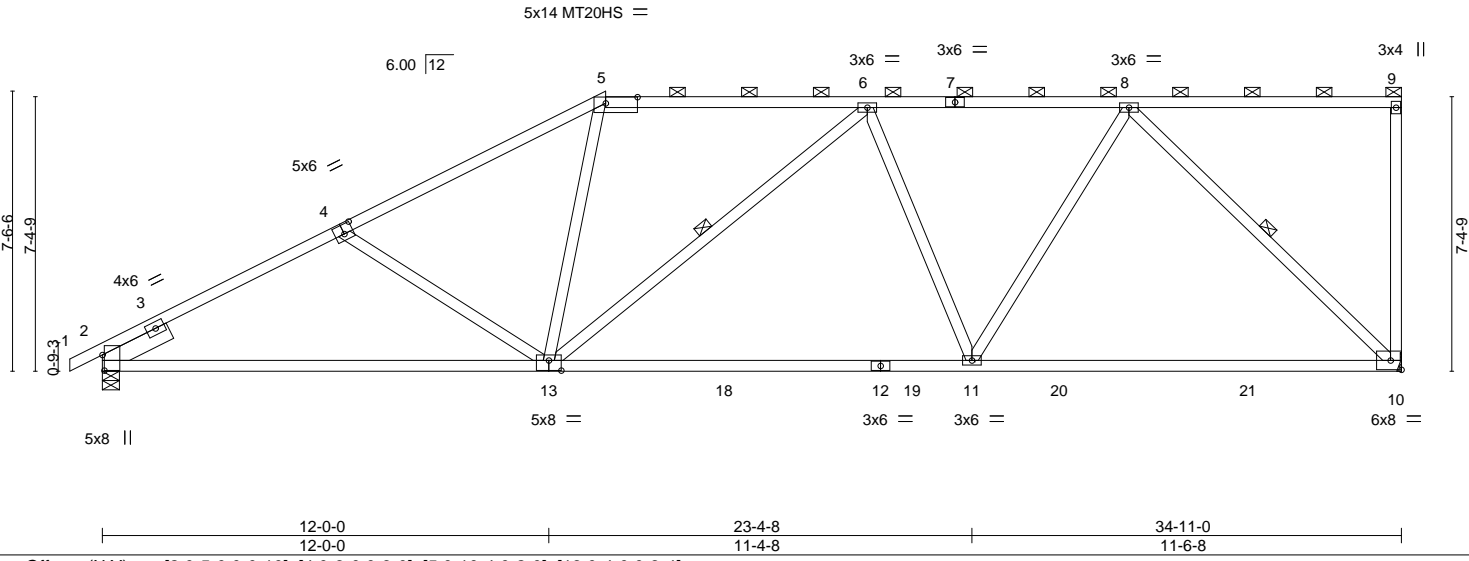


Plate Offsets (X, Y)-- [2:0-5-0,0-0-10], [4:0-3-0,0-3-0], [5:0-10-4,0-2-0], [13:0-4-0,0-3-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	BC 0.88	Vert(LL)	-0.36	11-13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	TC 0.82	Vert(CT)	-0.69	10-11	>607	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.85	Horz(CT)	0.08	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.13	11-13	>999		
								Weight: 196 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-10-9 max.): 5-9.
BOT CHORD 2x4 SP No.1 *Except* 10-12: 2x4 SP SS	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-13, 8-10
SLIDER Left 2x6 SP No.2 1-11-12	

REACTIONS. (lb/size) 10=1390/Mechanical, 2=1444/0-5-8
 Max Horz 2=312(LC 12)
 Max Uplift 10=-329(LC 9), 2=-221(LC 12)
 Max Grav 10=1424(LC 2), 2=1444(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2301/691, 4-5=-2008/576, 5-6=-1634/584, 6-8=-1606/446
 BOT CHORD 2-13=-835/1991, 11-13=-550/1713, 10-11=-379/1167
 WEBS 4-13=-320/303, 5-13=-1/539, 6-13=-280/155, 6-11=-424/281, 8-11=-131/858,
 8-10=-1586/532

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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) 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) 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 (jt=lb) 10=329, 2=221.
- 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.



March 25, 2019

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

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

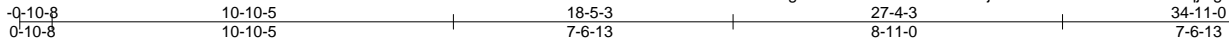
818 Soundside Road
 Edenton, NC 27932

Job 654050	Truss A17	Truss Type HALF HIP	Qty 2	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507750
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Builders FirstSource, Sumter, SC - 29153,

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ID:Ox8smJ6gTzXhi9vcz7B9dzSnQN-fjLRQ3iZDhweTmuunhGOkqjbigJmQKN4FucZBrzXPoX



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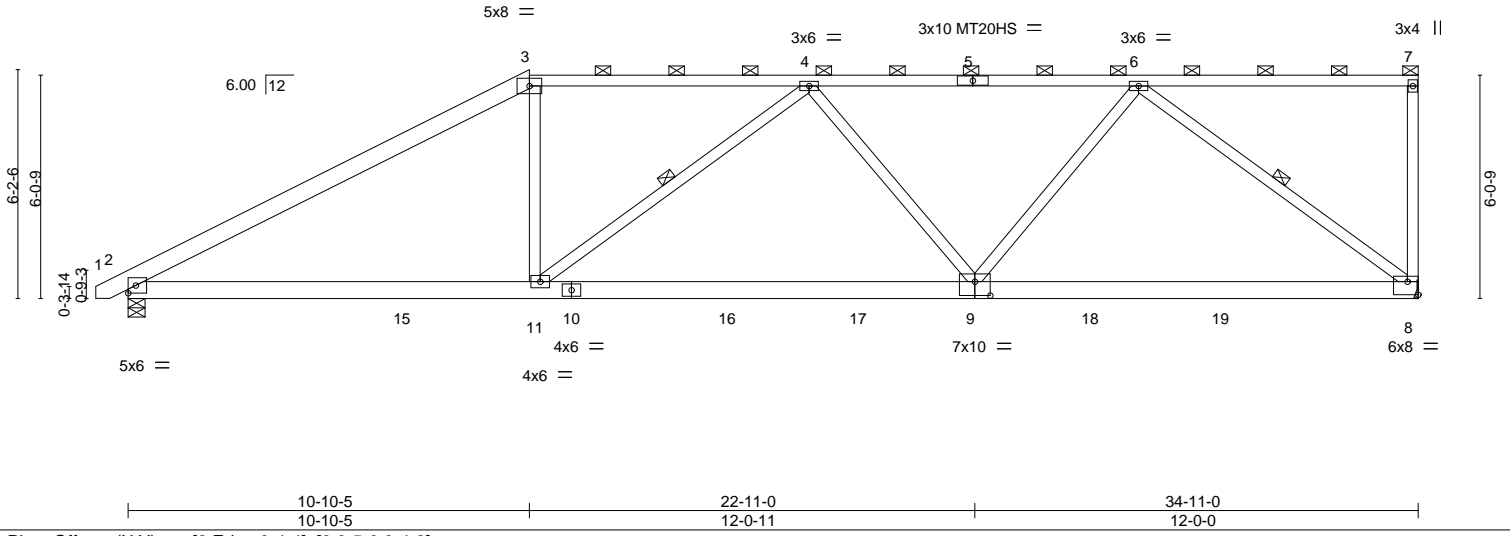


Plate Offsets (X,Y)--	[8:Edge,0-4-4], [9:0-5-0,0-4-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.91	Vert(LL) -0.15 8-9 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.74	Vert(CT) -0.33 8-9 >999 240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.85	Horz(CT) 0.07 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.12 11-14 >999 240		
				Weight: 211 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
 1-3: 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

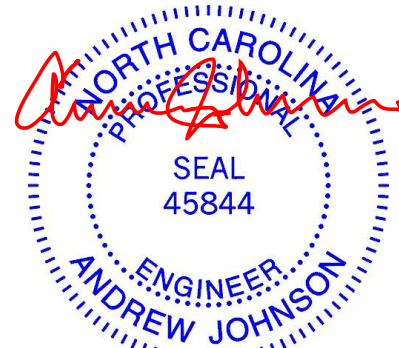
BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 3-7.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-11, 6-8

REACTIONS. (lb/size) 8=1390/Mechanical, 2=1432/0-5-8
 Max Horz 2=253(LC 12)
 Max Uplift 8=-338(LC 9), 2=-195(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2301/597, 3-4=-1965/630, 4-6=-1980/517
BOT CHORD 2-11=-631/1951, 9-11=-695/2182, 8-9=-473/1473
WEBS 3-11=-2/585, 4-11=-452/239, 4-9=-405/287, 6-9=-71/829, 6-8=-1809/588

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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.
- 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) 8=338, 2=195.
- 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.



March 25, 2019

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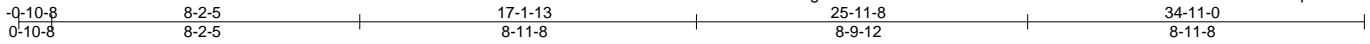
818 Soundside Road
 Edenton, NC 27932

Job 654050	Truss A18	Truss Type HALF HIP GIRDER	Qty 2	Ply 2	H&H/Hatteras/ Job Reference (optional)	136507751
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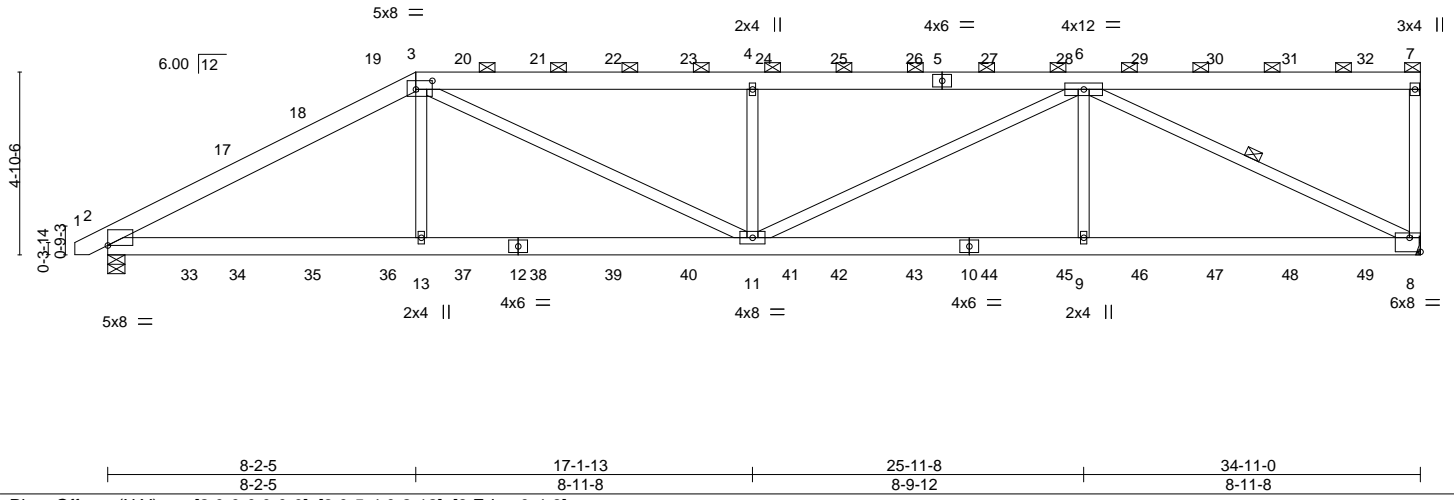
Builders FirstSource, Sumter, SC - 29153,

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Scale = 1:61.3



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 0.56	Vert(LL)	-0.14	9-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.63	Vert(CT)	-0.28	9-11	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.78	Horz(CT)	0.07	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.18	9-11	>999	Weight: 467 lb	FT = 20%

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

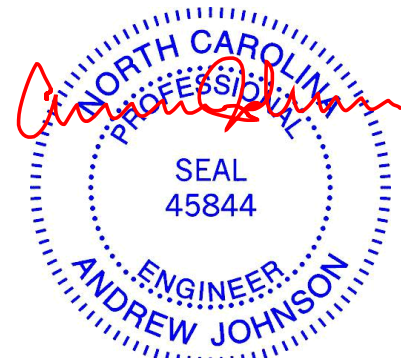
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-10-4 max.): 3-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-8

REACTIONS. (lb/size) 8=2677/Mechanical, 2=2754/0-5-8
Max Horz 2=196(LC 8)
Max Uplift 8=991(LC 5), 2=892(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4574/1583, 3-4=-5536/2063, 4-6=-5536/2063, 7-8=-395/286
BOT CHORD 2-13=-1457/3974, 11-13=-1455/3991, 9-11=-1585/4270, 8-9=-1585/4270
WEBS 3-13=0/659, 3-11=-715/1789, 4-11=-1005/761, 6-11=-535/1416, 6-9=0/711, 6-8=-4699/1744

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: 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=120mph (3-second gust) Vasd=95mph; 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=991, 2=892.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 25, 2019

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

Job 654050	Truss A18	Truss Type HALF HIP GIRDER	Qty 2	Ply 2	H&H/Hatteras/ Job Reference (optional)	I36507751
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Builders FirstSource, Sumter, SC - 29153,

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ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-0h8KTnmh2DZxaXnraEsZRtQYth2b5ccpOmKJt3zXPoS

NOTES-

- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 86 lb down and 77 lb up at 3-5-8, 41 lb down and 45 lb up at 5-5-8, 134 lb down and 115 lb up at 7-5-8, 149 lb down and 137 lb up at 9-5-8, 149 lb down and 137 lb up at 11-5-8, 149 lb down and 137 lb up at 13-5-8, 149 lb down and 137 lb up at 15-5-8, 149 lb down and 137 lb up at 17-5-8, 149 lb down and 137 lb up at 19-5-8, 149 lb down and 137 lb up at 21-5-8, 149 lb down and 137 lb up at 23-5-8, 149 lb down and 137 lb up at 25-5-8, 149 lb down and 137 lb up at 27-5-8, 149 lb down and 137 lb up at 29-5-8, and 149 lb down and 137 lb up at 31-5-8, and 149 lb down and 137 lb up at 33-5-8 on top chord, and 210 lb down and 89 lb up at 1-5-8, 105 lb down and 24 lb up at 3-5-8, 138 lb down and 67 lb up at 5-5-8, 79 lb down and 50 lb up at 7-5-8, 68 lb down at 9-5-8, 68 lb down at 11-5-8, 68 lb down at 13-5-8, 68 lb down at 15-5-8, 68 lb down at 17-5-8, 68 lb down at 19-5-8, 68 lb down at 21-5-8, 68 lb down at 23-5-8, 68 lb down at 25-5-8, 68 lb down at 27-5-8, 68 lb down at 29-5-8, and 68 lb down at 31-5-8, and 68 lb down at 33-5-8 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

Uniform Loads (plf)

Vert: 1-3=-60, 3-7=-60, 8-14=-20

Concentrated Loads (lb)

Vert: 17=-46(B) 18=-1(B) 19=-74(B) 20=-95(B) 21=-95(B) 22=-95(B) 23=-95(B) 24=-95(B) 25=-95(B) 26=-95(B) 27=-95(B) 28=-95(B) 29=-95(B) 30=-95(B) 31=-95(B) 32=-95(B) 33=-210(B) 34=-105(B) 35=-138(B) 36=-77(B) 37=-55(B) 38=-55(B) 39=-55(B) 40=-55(B) 41=-55(B) 42=-55(B) 43=-55(B) 44=-55(B) 45=-55(B) 46=-55(B) 47=-55(B) 48=-55(B) 49=-55(B)

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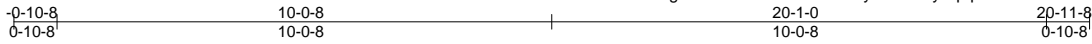
818 Soundside Road
Edenton, NC 27932

Job 654050	Truss B01	Truss Type GABLE	Qty 7	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507752
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Builders FirstSource, Sumter, SC - 29153,

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ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-y3G4uToyZrpfprxEifu1WlVzsVsKZgY6s4pQxyzXPoQ



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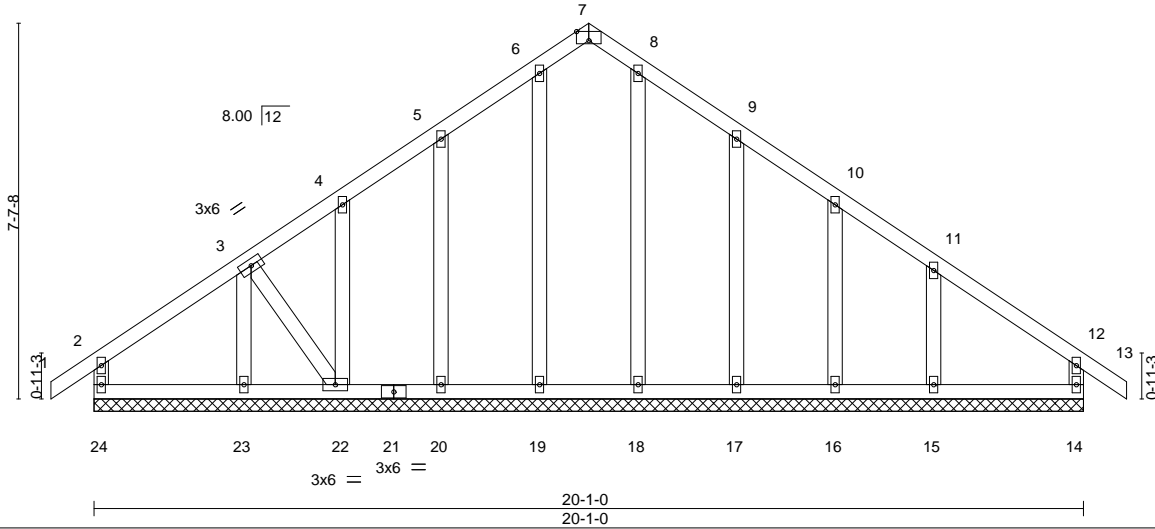


Plate Offsets (X,Y)--	[7:0-3-0,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	-0.00	12	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	-0.00	12	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	14	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 128 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.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 20-1-0.
 (lb) - Max Horz 24=-236(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 24, 19, 23, 16 except 20=-110(LC 12), 22=-246(LC 12), 17=-121(LC 13), 15=-167(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 24, 14, 19, 20, 18, 17, 16 except 22=276(LC 19), 23=262(LC 20), 15=257(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=120mph (3-second gust) Vasd=95mph; 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 19, 23, 16 except (jt=lb) 20=110, 22=246, 17=121, 15=167.

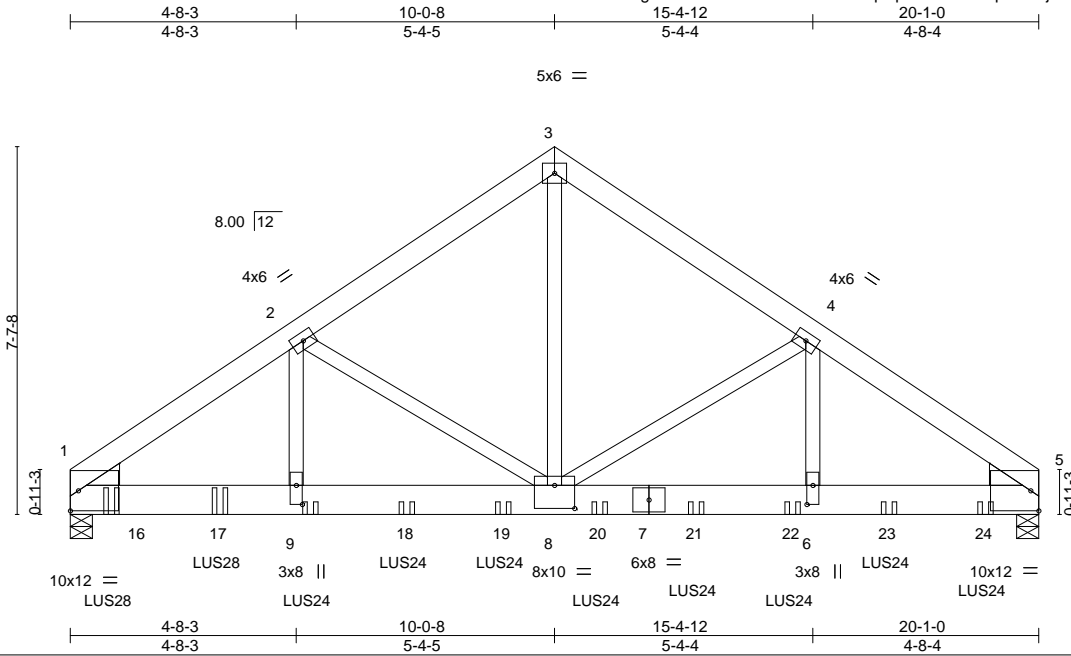


Job 654050	Truss B02	Truss Type Common Girder	Qty 5	Ply 2	H&H/Hatteras/ Job Reference (optional)	136507753
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Builders FirstSource, Sumter, SC - 29153,

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ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-uSOqJ8pC5S3N394cp4wVbjbJ?IVf1VGOJOIX0qzXPoO



Scale: 1/4"=1'

Plate Offsets (X,Y)--	[6:0-4-12,0-1-8], [8:0-5-0,0-5-12], [9:0-4-12,0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.31	Vert(LL) -0.05 6-8 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.42	Vert(CT) -0.09 6-8 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.02 5 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.05 6-8 >999 240	Weight: 318 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 2x8 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
WEDGE	
Left: 2x6 SP No.2, Right: 2x6 SP No.2	

REACTIONS. (lb/size)	1=5111/0-5-8, 5=3611/0-5-8
Max Horz	1=190(LC 24)
Max Uplift	1=-1320(LC 8), 5=-1208(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-5483/1610, 2-3=-3481/1196, 3-4=-3478/1196, 4-5=-4722/1564
BOT CHORD 1-9=-1380/4490, 8-9=-1380/4490, 6-8=-1213/3837, 5-6=-1213/3837
WEBS 3-8=-1155/3412, 4-8=-1201/570, 4-6=-401/1135, 2-8=-1980/616, 2-9=-449/1947

- NOTES-** (11)
- 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 0-5-0 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=120mph (3-second gust) Vasd=95mph; 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1320, 5=1208.
 - Use Simpson Strong-Tie LUS28 (6-SD9112 Girder, 4-SD9212 Truss, Single Ply Girder) or equivalent spaced at 2-3-0 oc max. starting at 0-10-4 from the left end to 3-1-4 to connect truss(es) to back face of bottom chord.
 - Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 4-11-12 from the left end to 18-11-12 to connect truss(es) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

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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818 Soundside Road
Edenton, NC 27932

Job 654050	Truss B02	Truss Type Common Girder	Qty 5	Ply 2	H&H/Hatteras/ Job Reference (optional)	I36507753
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Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:03:50 2019 Page 2
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-MeyDWUqqsmBEgJfpNnRk8x7UlrummyWYY214YGzXPoN

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: 9=-531(B) 16=-1435(B) 17=-1434(B) 18=-531(B) 19=-531(B) 20=-531(B) 21=-531(B) 22=-531(B) 23=-531(B) 24=-531(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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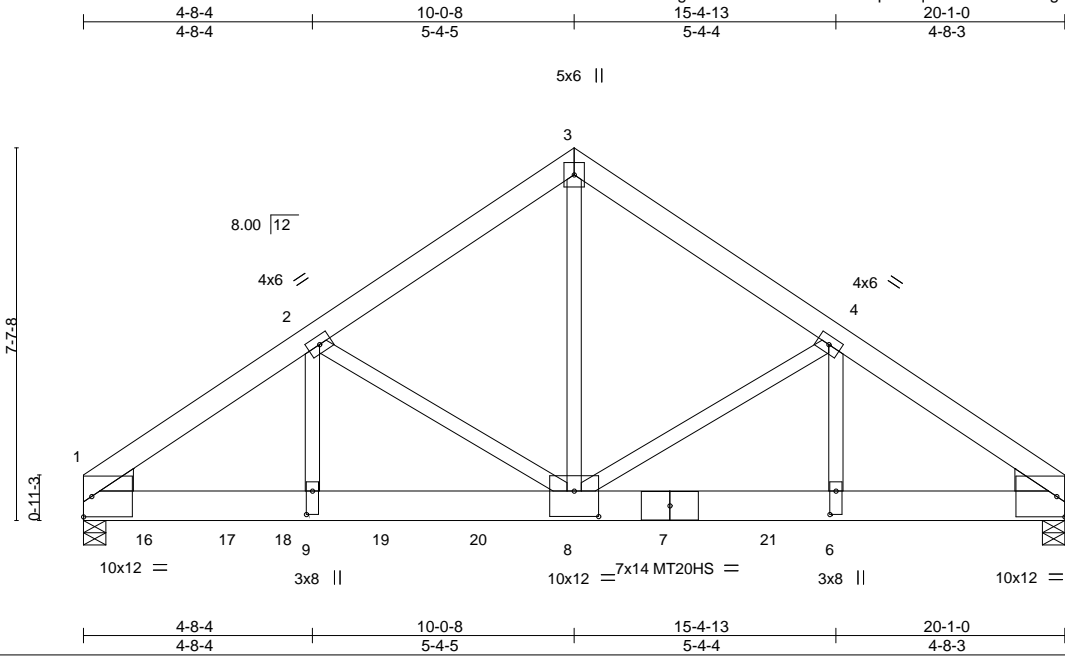
818 Soundside Road
Edenton, NC 27932

Job 654050	Truss B03	Truss Type Common Girder	Qty 2	Ply 2	H&H/Hatteras/ Job Reference (optional)	136507754
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Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:03:51 2019 Page 1

ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-qrVbkqrSd3J5ITE?xVzzg8gYf66QVH?hnnie4jzXPoM



Scale = 1:47.2

Plate Offsets (X,Y)--	[6:0-5-12,0-1-8], [8:0-6-0,0-6-4], [9:0-5-12,0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.61	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.61	Vert(LL) -0.10 6-8 >999 360	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.92	Vert(CT) -0.21 6-8 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.05 5 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.12 6-8 >999 240	Weight: 318 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-6-1 oc purlins.
BOT CHORD 2x8 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
WEDGE	
Left: 2x6 SP No.2, Right: 2x6 SP No.2	

REACTIONS.	(lb/size)
	1=8207/0-5-8, 5=5681/0-5-8
	Max Horz 1=-190(LC 23)
	Max Uplift 1=-1762(LC 8), 5=-1500(LC 9)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-10225/2257, 2-3=-7218/1839, 3-4=-7211/1835, 4-5=-9051/2451
BOT CHORD	1-9=-1911/8372, 8-9=-1911/8372, 6-8=-1930/7352, 5-6=-1930/7352
WEBS	3-8=-1850/7463, 4-8=-1650/782, 4-6=-700/1890, 2-8=-2867/605, 2-9=-465/3125

- NOTES-** (10)
- 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 0-4-0 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=120mph (3-second gust) Vasd=95mph; 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
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1762, 5=1500.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1379 lb down and 268 lb up at 0-8-12, 1376 lb down and 271 lb up at 2-11-12, 1376 lb down and 271 lb up at 4-1-8, 1376 lb down and 271 lb up at 6-1-8, 1376 lb down and 261 lb up at 8-1-8, 1404 lb down and 349 lb up at 10-1-8, and 1370 lb down and 358 lb up at 12-1-8, and 2657 lb down and 1011 lb up at 14-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

Continued on page 2



March 25, 2019

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Job 654050	Truss B03	Truss Type Common Girder	Qty 2	Ply 2	H&H/Hatteras/ Job Reference (optional)	I36507754
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Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:03:51 2019 Page 2
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-qrVbkqrSd3J5ITE?xVzzg8gYf66QVH?hnine4jzXPoM

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: 7=-1370(B) 8=-1370(B) 16=-1379(B) 17=-1376(B) 18=-1376(B) 19=-1376(B) 20=-1376(B) 21=-2657(B)

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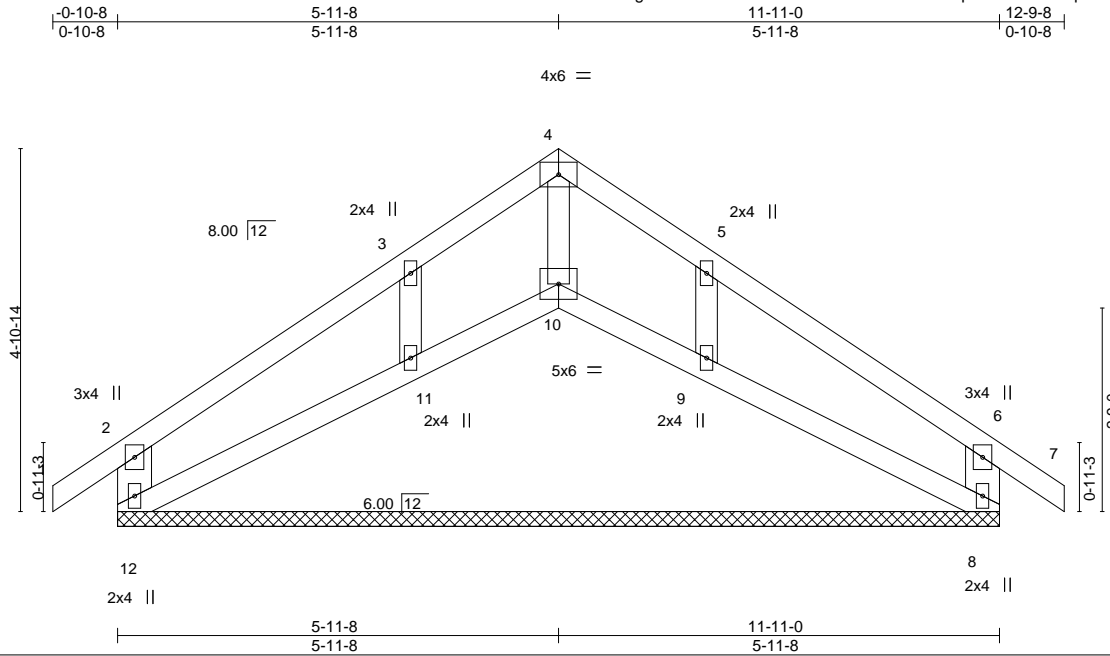
818 Soundside Road
Edenton, NC 27932

Job 654050	Truss C01	Truss Type Scissor Supported Gable	Qty 5	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507755
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Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:03:52 2019 Page 1

ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-113zxAr4ONRxcwcpBUCUCDMDqeWZTEyar?MWBc9zXPoL



Scale = 1:31.1

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)	-0.00	6	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	0.00	6	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						Weight: 55 lb	FT = 20%

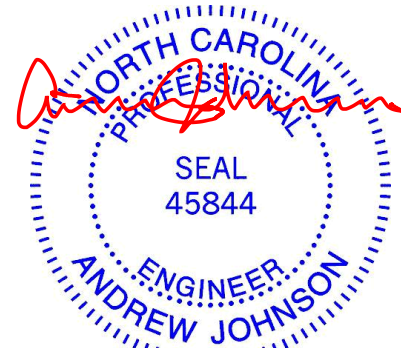
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x6 SP No.2
 OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 11-11-0.
 (lb) - Max Horz 12=-165(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 8, 10 except 12=-101(LC 13), 11=-151(LC 12), 9=-149(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 12, 8, 10 except 11=323(LC 19), 9=318(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-4=-263/242, 4-5=-263/244

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=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.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 10 except (jt=lb) 12=101, 11=151, 9=149.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 11, 9.



March 25, 2019

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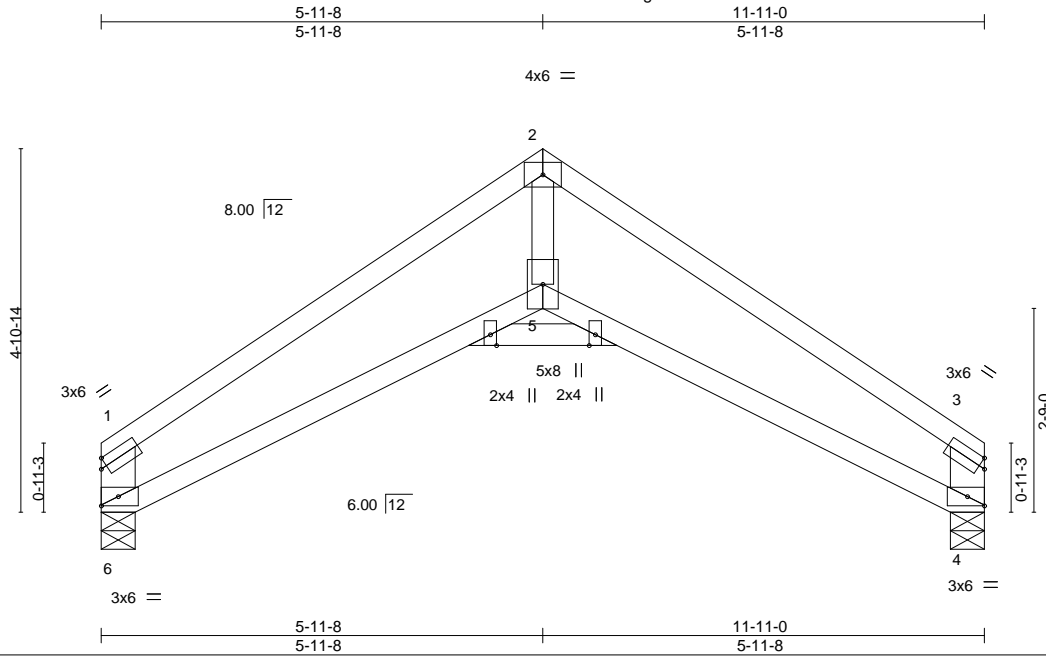
ENGINEERING BY
TRENCO
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 818 Soundside Road
 Edenton, NC 27932

Job 654050	Truss C02	Truss Type Scissor	Qty 25	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507756
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Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:03:53 2019 Page 1

ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-nDdL9Wsi9hZoXmOO2v?RIZlvpkyzLf_E0GI9bzXPoK



Scale = 1:31.1

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 0.56	Vert(LL)	-0.15	5	>911	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.79	Vert(CT)	-0.30	5	>455		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.27	Horz(CT)	0.32	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.08	5	>999		
								Weight: 51 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

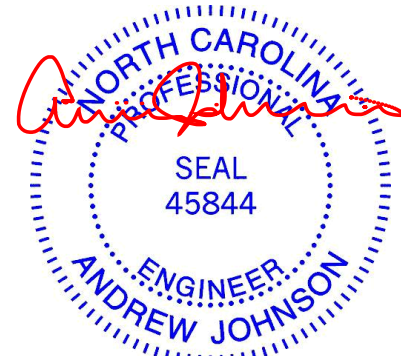
(lb/size) 6=458/0-5-8, 4=458/0-5-8
 Max Horz 6=-144(LC 8)
 Max Uplift 6=-73(LC 12), 4=-73(LC 13)

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

TOP CHORD 1-2=-907/229, 2-3=-907/230, 1-6=-665/206, 3-4=-665/208
 BOT CHORD 5-6=-142/762, 4-5=-141/758
 WEBS 2-5=-45/678

NOTES- (8)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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.
- Bearing at joint(s) 6, 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 capable of withstanding 100 lb uplift at joint(s) 6, 4.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 25, 2019

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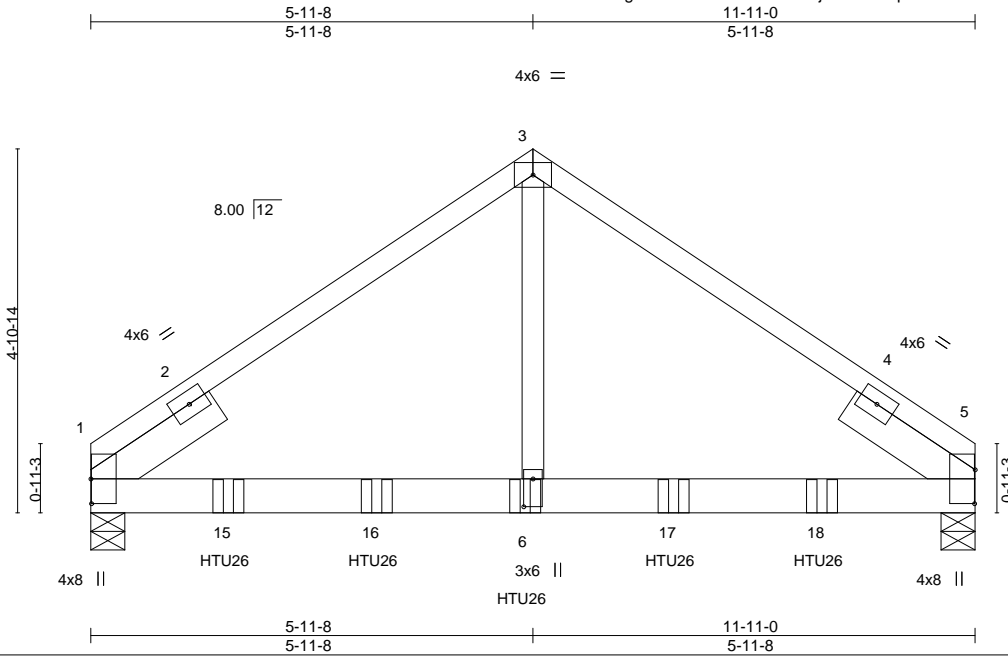
818 Soundside Road
 Edenton, NC 27932

Job 654050	Truss C03	Truss Type Common Girder	Qty 5	Ply 2	H&H/Hatteras/ 136507757
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Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:03:55 2019 Page 1

ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-jcl6aCuzhlpWn4YmAk1vr_rJUjOOREUHhKlrDUzXPoI



Scale = 1:31.1

Plate Offsets (X,Y)--	[1:0-4-0,0-0-2], [5:0-5-8,0-0-2], [6:0-4-8,0-1-8]
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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 0.30	Vert(LL)	-0.05	6-13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.92	Vert(CT)	-0.09	6-13	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.37	Horz(CT)	0.01	1	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.05	6-13	>999		
								Weight: 130 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.
WEBS 2x4 SP No.2	
SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12	

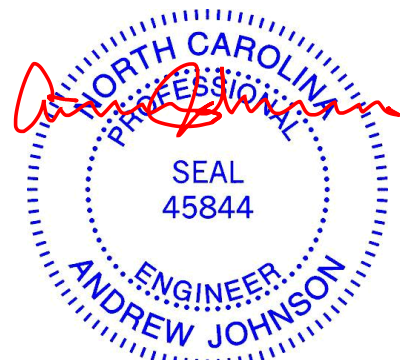
REACTIONS.	(lb/size)
	1=2880/0-5-8, 5=2814/0-5-8
	Max Horz 1=113(LC 24)
	Max Uplift 1=-581(LC 8), 5=-567(LC 9)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-3=-3011/674, 3-5=-3011/674
BOT CHORD	1-6=-490/2505, 5-6=-490/2505
WEBS	3-6=-597/3032

- NOTES-** (10)
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
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=120mph (3-second gust) Vasd=95mph; 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=581, 5=567.
 - Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-10-4 from the left end to 9-10-4 to connect truss(es) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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, 7-11=-20	

Continued on page 2



March 25, 2019

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 654050	Truss C03	Truss Type Common Girder	Qty 5	Ply 2	H&H/Hatteras/ Job Reference (optional)	I36507757
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Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:03:55 2019 Page 2
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-jcl6aCuzhlpWn4YmAK1vr_rJUjOOREUHhKlrDUzXPoi

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 6--948(B) 15--948(B) 16--948(B) 17--948(B) 18--948(B)

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818 Soundside Road
Edenton, NC 27932

Job 654050	Truss C04	Truss Type GABLE	Qty 2	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507758
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Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:03:56 2019 Page 1

ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-BoJUnYubScxNOE7zj2Y8NCNSM7wCAmXQw_UPIwzXPoH



3x6 ||

Scale = 1:30.2

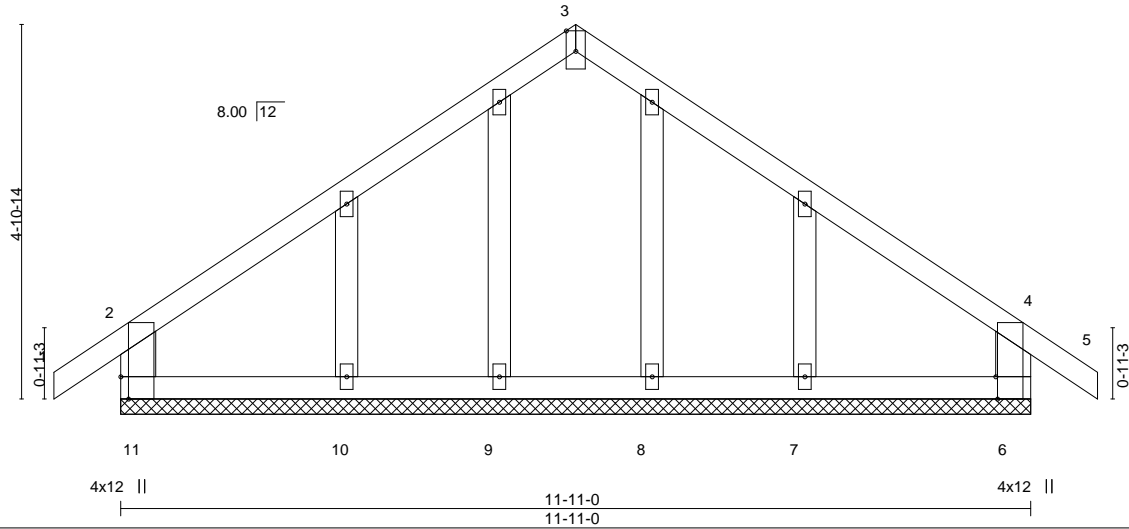


Plate Offsets (X,Y)--	[2:0-1-13,0-2-12], [3:0-3-3,Edge], [4:0-1-13,0-2-12], [6:0-3-8,Edge], [6:0-0-0,0-2-12], [11:0-3-8,Edge], [11:0-0-0,0-2-12]
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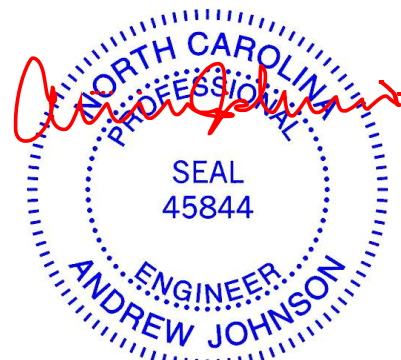
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.42	Vert(LL)	0.01	5	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	0.01	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						Weight: 63 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.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.2	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 11-11-0.
 (lb) - Max Horz 11=-161(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 10, 7 except 11=-119(LC 12), 6=-119(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 9, 10, 8, 7 except 11=437(LC 1), 6=437(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-11=-410/246, 2-3=-380/183, 3-4=-380/183, 4-6=-410/246
 BOT CHORD 10-11=-37/250, 9-10=-37/250, 8-9=-37/250, 7-8=-37/250, 6-7=-37/250

- NOTES-** (10)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 7 except (jt=lb) 11=119, 6=119.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 25, 2019

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

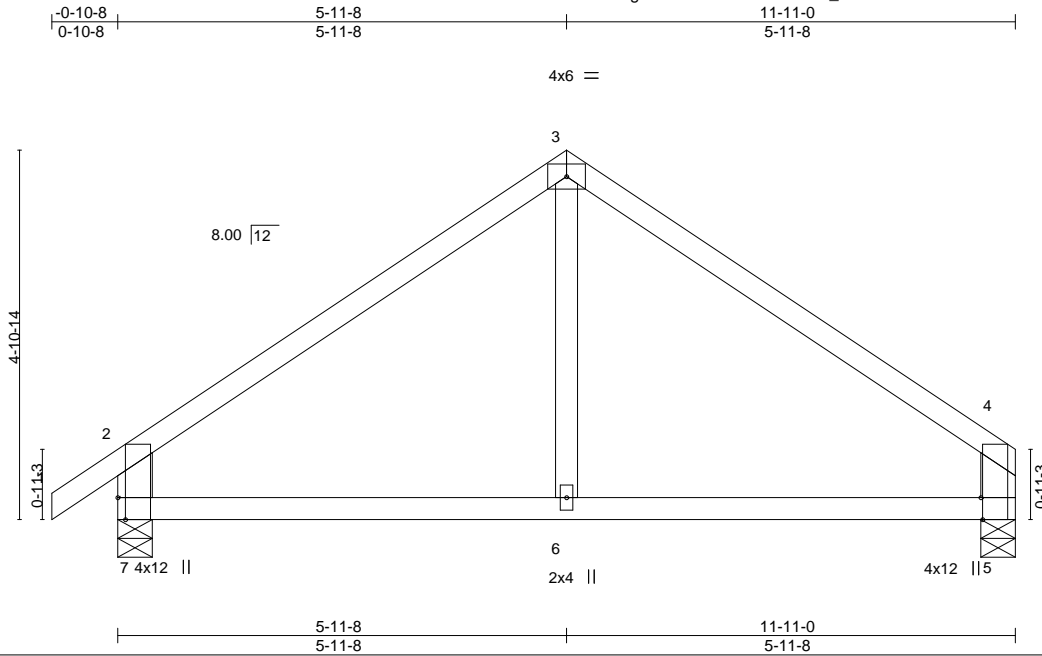
818 Soundside Road
 Edenton, NC 27932

Job 654050	Truss C05	Truss Type Common	Qty 10	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507759
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Builders FirstSource, Sumter, SC - 29153,

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ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-f_ts?tvDDv4E00i9Hl3NwPwewXEEvCRa9dEylMzXPoG



Scale = 1:30.6

Plate Offsets (X,Y)--	[2:0-1-13,0-2-12], [4:0-1-13,0-2-12], [5:0-3-8,Edge], [5:0-0-0,0-2-12], [7:0-0-0,0-2-12], [7:0-3-8,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.36	Vert(LL) -0.02	6-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.26	Vert(CT) -0.04	6-7	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT) 0.01	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.03	6-7	>999	240	Weight: 50 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x6 SP No.2 *Except*	
3-6: 2x4 SP No.3	

REACTIONS.	(lb/size)
7=528/0-5-8, 5=455/0-5-8	
Max Horz 7=154(LC 9)	
Max Uplift 7=-103(LC 12), 5=-74(LC 13)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-482/150, 3-4=-477/150, 2-7=-466/221, 4-5=-391/159
BOT CHORD	6-7=-47/327, 5-6=-47/327

- NOTES-** (7)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 7=103.
 - 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.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 25, 2019

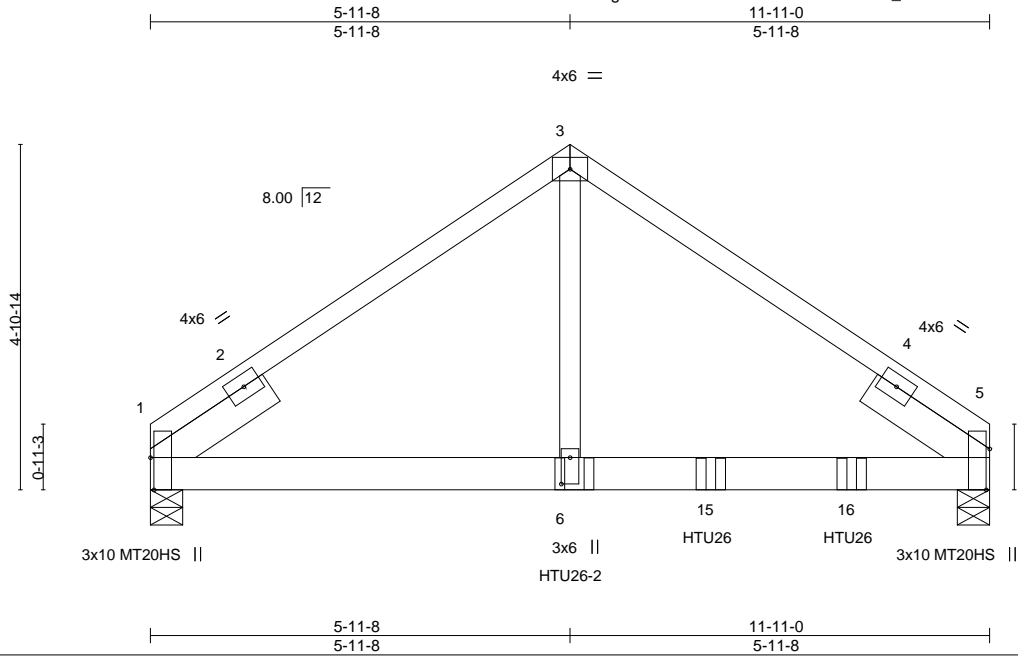
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job 654050	Truss C07	Truss Type Common Girder	Qty 2	Ply 2	H&H/Hatteras/ Job Reference (optional)	136507760
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Builders FirstSource, Sumter, SC - 29153,

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ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-7BQECDwr_DC5eXGLrTbcSdTIawSxebdjOHZVqzXPoF



Scale = 1:32.7

Plate Offsets (X,Y)--	[1:0-5-8,Edge], [5:0-7-0,Edge], [6:0-4-8,0-1-8]				
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 0.59	Vert(LL) -0.07 6-13 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.74	Vert(CT) -0.13 6-13 >999 240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.35	Horz(CT) -0.02 1 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.07 6-13 >999 240		
				Weight: 130 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.1	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, Right 2x6 SP No.2 1-11-12	

REACTIONS. (lb/size)	1=1891/0-5-8, 5=2846/0-5-8
Max Horz	1=113(LC 5)
Max Uplift	1=539(LC 8), 5=709(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-2874/877, 3-5=-2770/869
BOT CHORD 1-6=-650/2305, 5-6=-650/2305
WEBS 3-6=-835/2825

- NOTES-** (12)
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 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=120mph (3-second gust) Vasd=95mph; 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
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=539, 5=709.
 - Use Simpson Strong-Tie HTU26-2 (20-10d Girder, 14-10d Truss, Single Ply Girder) or equivalent at 6-0-4 from the left end to connect truss(es) to back face of bottom chord.
 - Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 7-11-8 from the left end to 9-11-8 to connect truss(es) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

Continued on page 2



March 25, 2019

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Job 654050	Truss C07	Truss Type Common Girder	Qty 2	Ply 2	H&H/Hatteras/ Job Reference (optional)	I36507760
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Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:03:58 2019 Page 2
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-7BQECDwr_DC5eXGLrTbcSdTIaWSxebdjOHZVqzXPoF

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, 7-11=-20
- Concentrated Loads (lb)
 - Vert: 6=-1888(B) 15=-948(B) 16=-948(B)

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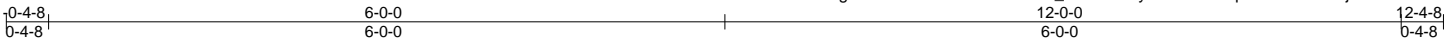
818 Soundside Road
Edenton, NC 27932

Job 654050	Truss CP01	Truss Type Common Girder	Qty 7	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507761
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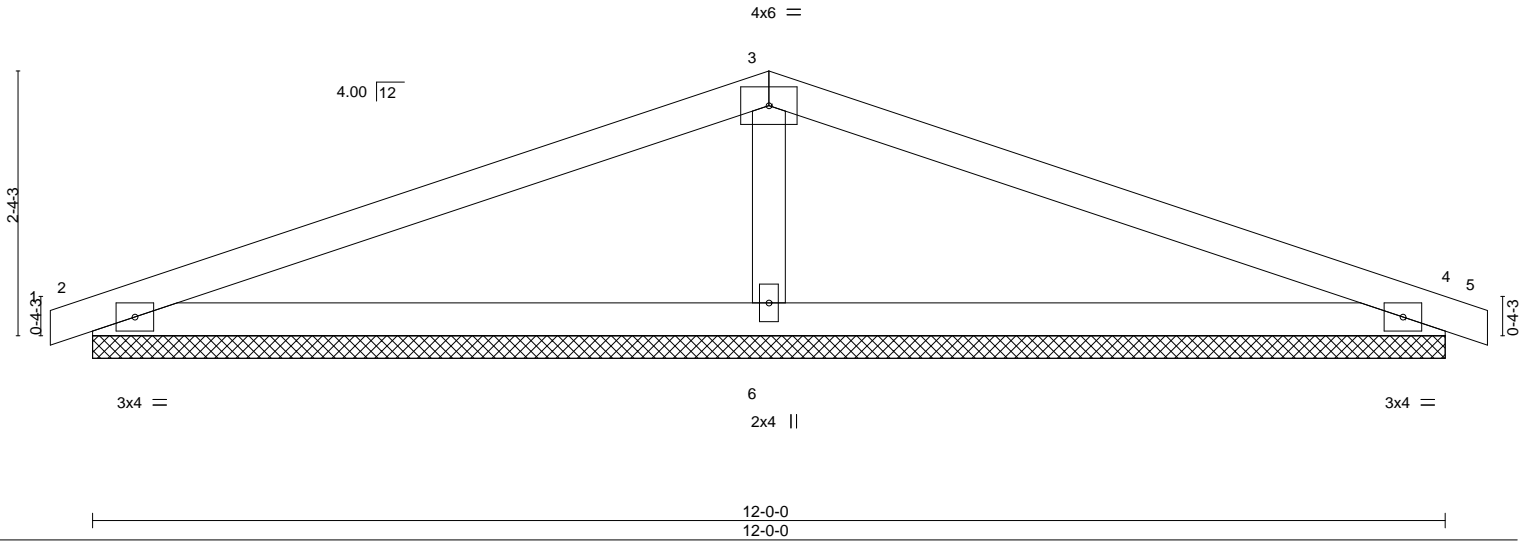
Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:03:59 2019 Page 1

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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 0.58	Vert(LL)	0.01	5	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.39	Vert(CT)	0.02	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.08	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 41 lb	FT = 20%

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

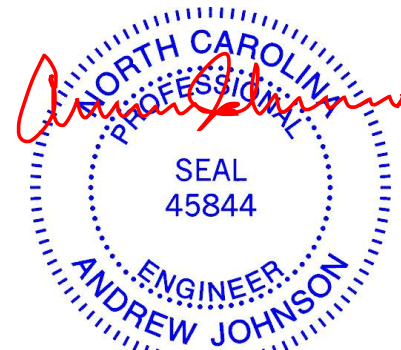
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=228/12-0-0, 4=228/12-0-0, 6=549/12-0-0
 Max Horz 2=41(LC 12)
 Max Uplift 2=-78(LC 8), 4=-83(LC 9), 6=-77(LC 8)
 Max Grav 2=235(LC 23), 4=235(LC 24), 6=549(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-366/234

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 4.



March 25, 2019

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818 Soundside Road
 Edenton, NC 27932

Job 654050	Truss CP02	Truss Type Common	Qty 25	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507762
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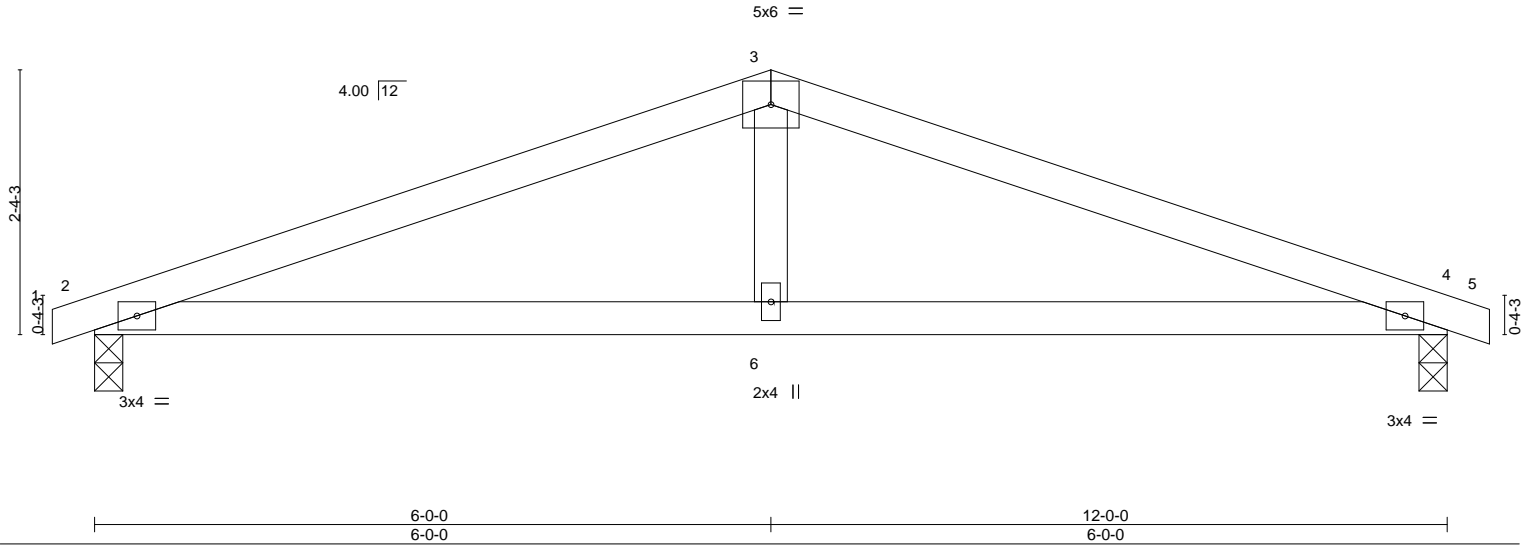
Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:04:00 2019 Page 1

ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-3ZY?dvy5VqSprQkytd4Y2Y9wkDD6Zy0rbScvHzXPoD



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 0.38	Vert(LL)	0.09	6-12	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.43	Vert(CT)	-0.09	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: 41 lb	FT = 20%

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

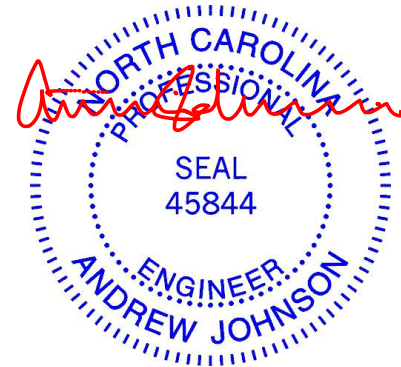
BRACING-
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 2=503/0-3-0, 4=503/0-3-0
 Max Horz 2=-41(LC 13)
 Max Uplift 2=-244(LC 8), 4=-244(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-902/994, 3-4=-902/994
 BOT CHORD 2-6=-877/826, 4-6=-877/826
 WEBS 3-6=-334/267

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=244, 4=244.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 25, 2019

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job 654050	Truss D01	Truss Type Common Supported Gable	Qty 7	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507763
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Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:04:01 2019 Page 1

ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-Ym6NqFykG8agV??wWb8J4F5FZ8dLrOX94FCAR8zXPoC



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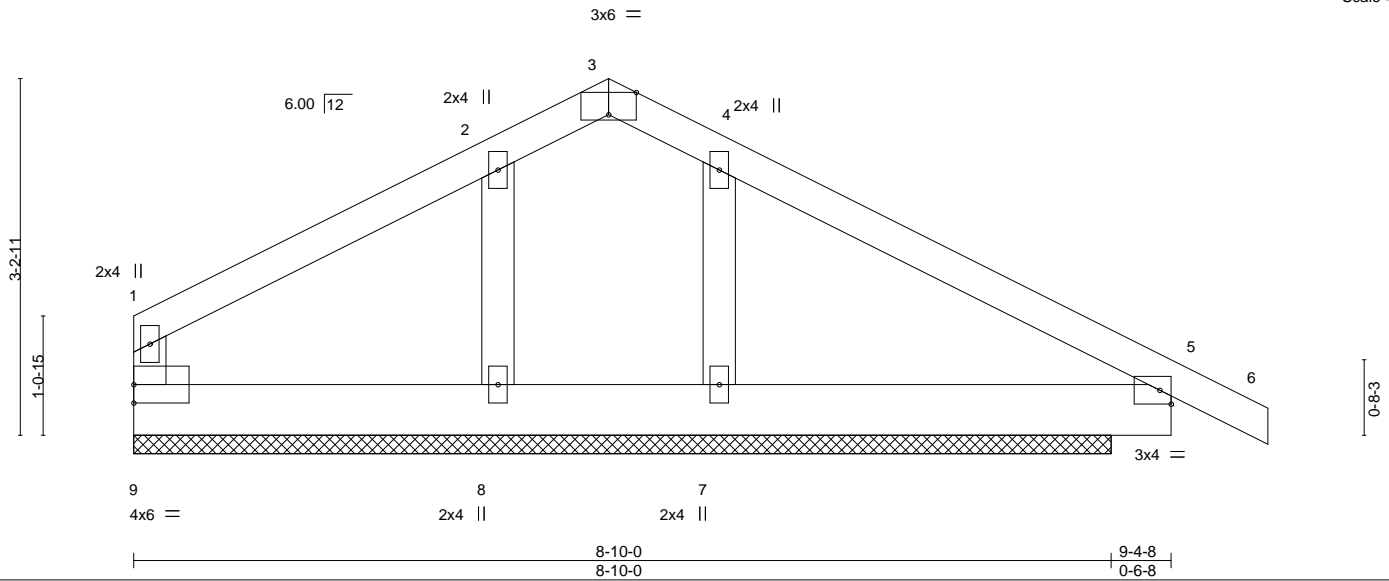


Plate Offsets (X,Y)-- [3:0-3:0,Edge]

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 0.58	Vert(LL)	-0.01	5-6	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(CT)	-0.01	5-6	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	-0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 46 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 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 9-4-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(lb/size) 9=-106/8-10-0, 7=546/8-10-0, 8=351/8-10-0
 Max Horz 9=-66(LC 8)
 Max Uplift 9=-160(LC 24), 7=-153(LC 13), 8=-84(LC 12)
 Max Grav 9=40(LC 13), 7=551(LC 24), 8=351(LC 1)

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

TOP CHORD 1-2=-179/353, 4-5=-203/370
 BOT CHORD 8-9=-261/245, 7-8=-261/245, 5-7=-261/245
 WEBS 4-7=-371/252, 2-8=-312/203

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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; cantilever right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 9=160, 7=153.
- Non Standard bearing condition. Review required.



March 25, 2019

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job 654050	Truss D02	Truss Type Common	Qty 7	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507764
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Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:04:02 2019 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-0ygl2bzM1SiX69a64IfYdTdXkY_7aU5JlvxjazXPoB



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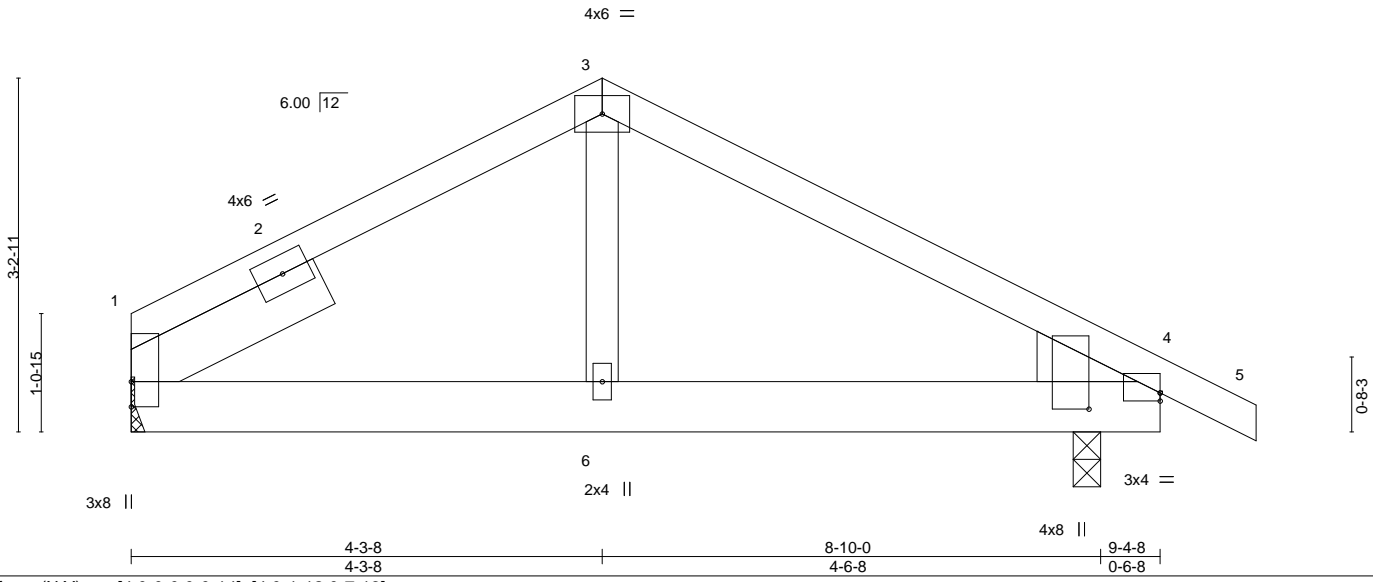


Plate Offsets (X,Y)--	[4:0-0-0,0-0-14], [4:0-1-12,0-7-13]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.17	Vert(LL)	-0.00	6-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	-0.01	6-15	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	1	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.01	6-15	>999	Weight: 50 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	
WEDGE	
Right: 2x6 SP No.2	
SLIDER Left 2x6 SP No.2 1-11-12	

REACTIONS. (lb/size) 1=346/Mechanical, 4=456/0-3-0
 Max Horz 1=-75(LC 13)
 Max Uplift 1=-84(LC 9), 4=-108(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-321/445, 3-4=-379/439
 BOT CHORD 1-6=-268/287, 4-6=-268/287

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever right exposed; end vertical 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 4=108.
 - 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.



March 25, 2019

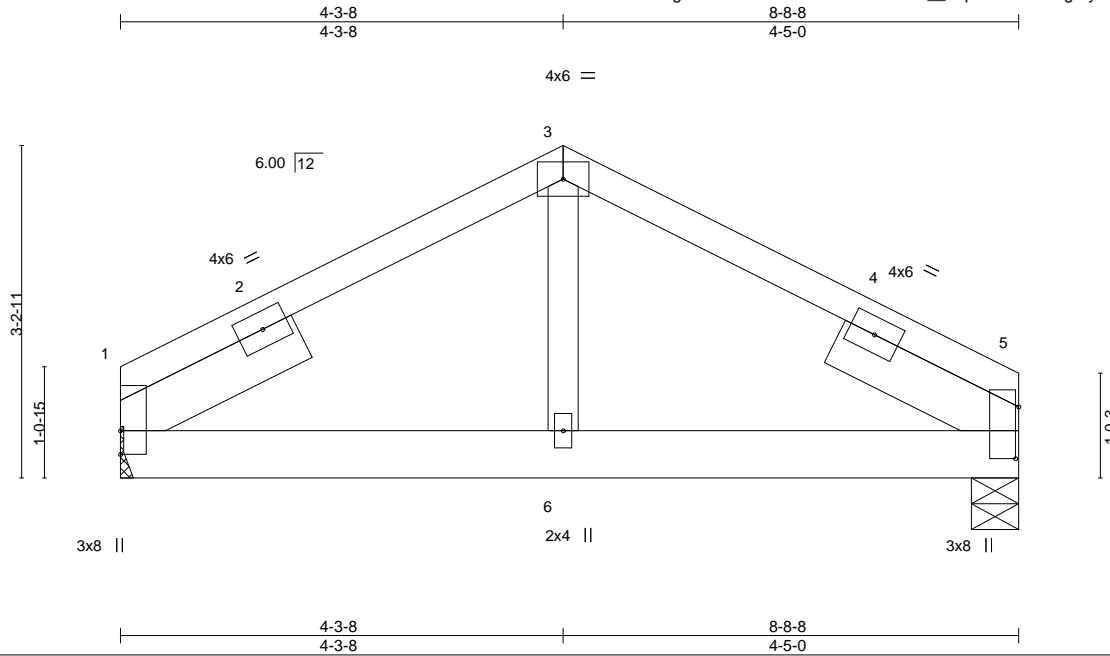
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 654050	Truss D03	Truss Type Common	Qty 14	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507765
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Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:04:03 2019 Page 1

ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-U8E7Fx_oIQOkJ9Je0An9gAiyxK8JxJSXZhGV0zXPoA



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Plate Offsets (X,Y)--	[5:0-6:0,0-0-6]				
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 0.14	Vert(LL) -0.01 6-13 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT) -0.01 6-13 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.00 1 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.01 6-13 >999 240	Weight: 48 lb	FT = 20%

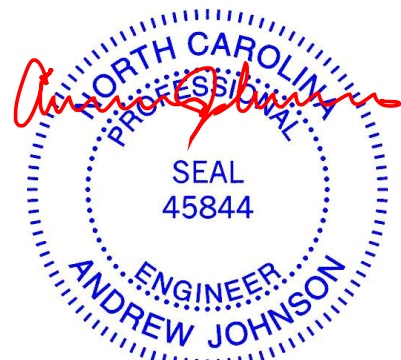
LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12

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

REACTIONS. (lb/size) 1=348/Mechanical, 5=348/0-5-8
 Max Horz 1=-44(LC 13)
 Max Uplift 1=-84(LC 9), 5=-85(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-330/452, 3-5=-330/450
 BOT CHORD 1-6=-314/295, 5-6=-314/295

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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) 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) 1, 5.
 - 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.



March 25, 2019

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 654050	Truss E01	Truss Type GABLE	Qty 2	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507766
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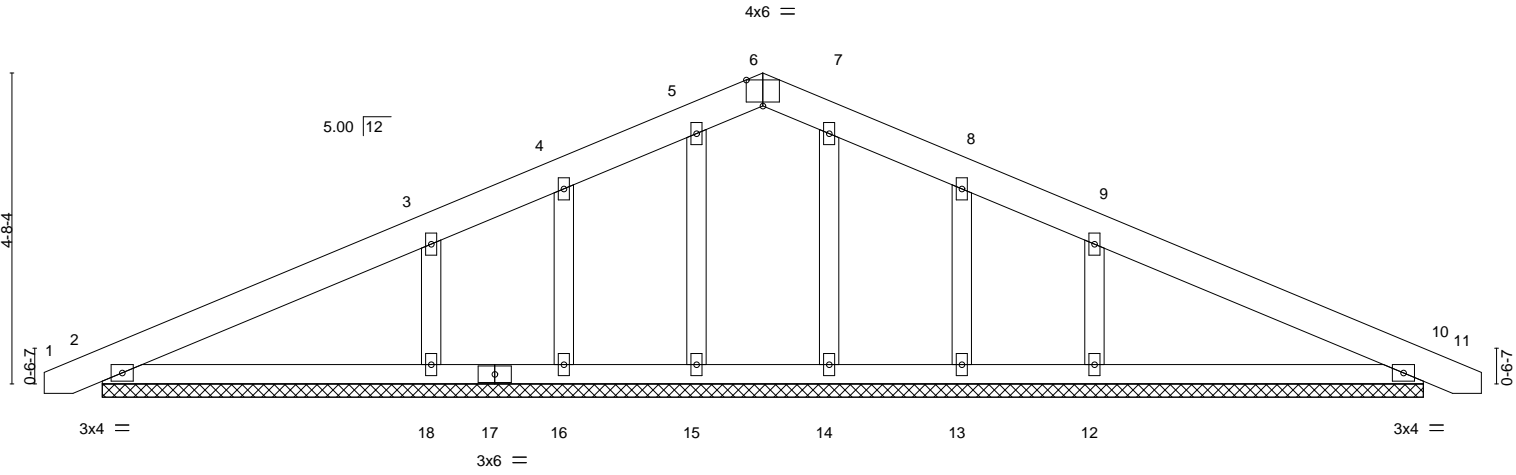
Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:04:04 2019 Page 1

ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-yLoVTH?cZ3yEMSkvBjh0iuitqLeD2NWcmDQq2SszXPo9



Scale = 1:34.7



19-11-0
19-11-0

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 0.13	Vert(LL)	0.00	11	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	0.01	11	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 109 lb	FT = 20%

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

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

REACTIONS. All bearings 19-11-0.
(lb) - Max Horz 2=-85(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 2, 15, 16, 13, 10 except 18=-142(LC 12), 12=-141(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 15, 16, 14, 13, 10 except 18=402(LC 1), 12=402(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-18=-299/217, 9-12=-299/217

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 15, 16, 13, 10 except (jt=lb) 18=142, 12=141.



March 25, 2019

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



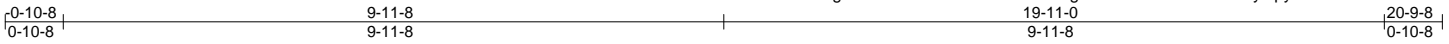
818 Soundside Road
Edenton, NC 27932

Job 654050	Truss E02	Truss Type Common	Qty 16	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507767
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Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:04:05 2019 Page 1

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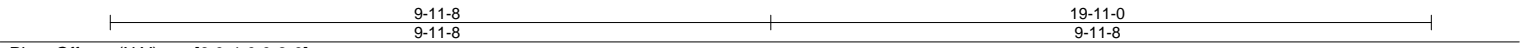
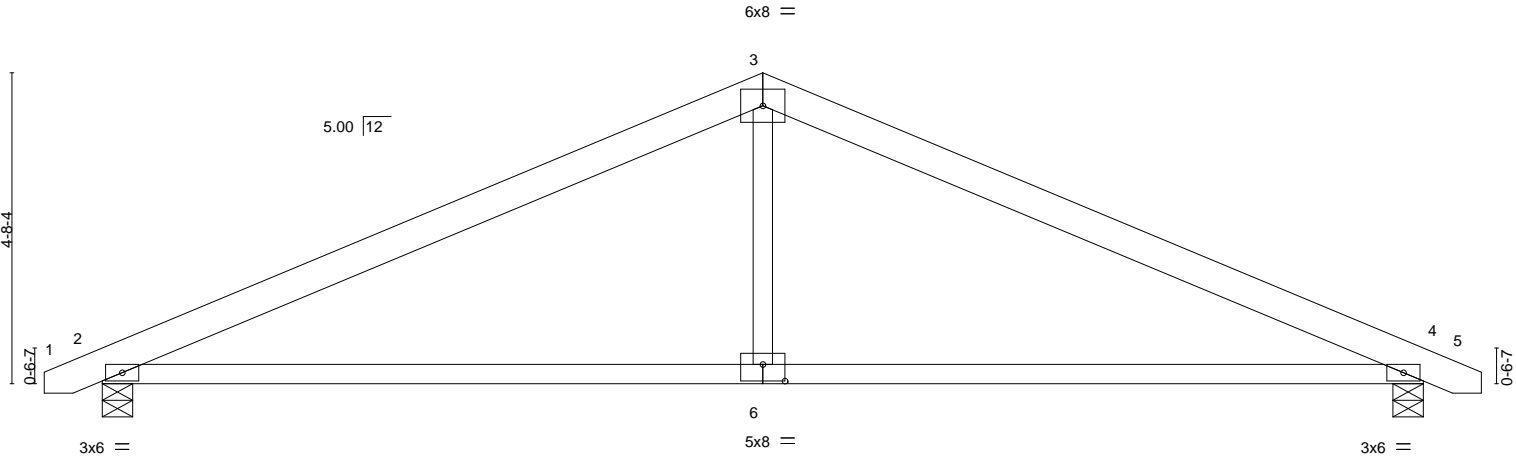


Plate Offsets (X,Y)-- [6:0-4-0-0-3-0]

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 0.56	Vert(LL)	-0.13	6-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.85	Vert(CT)	-0.28	6-12	>844		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.02	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.11	6-9	>999	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=836/0-5-8, 4=836/0-5-8
Max Horz 2=85(LC 13)
Max Uplift 2=164(LC 12), 4=164(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1235/403, 3-4=-1235/403
BOT CHORD 2-6=-241/1080, 4-6=-241/1080
WEBS 3-6=0/404

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=164, 4=164.
 - 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 25, 2019

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



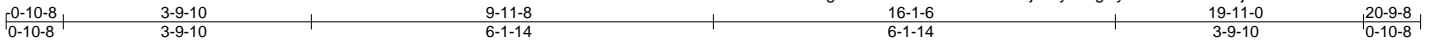
818 Soundside Road
Edenton, NC 27932

Job 654050	Truss E04	Truss Type Hip Girder	Qty 2	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507768
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Builders FirstSource, Sumter, SC - 29153,

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ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-ujvGty0s5gCybmuuJ8kUnJo3j9FBWDdvDXvx6LzXPo7



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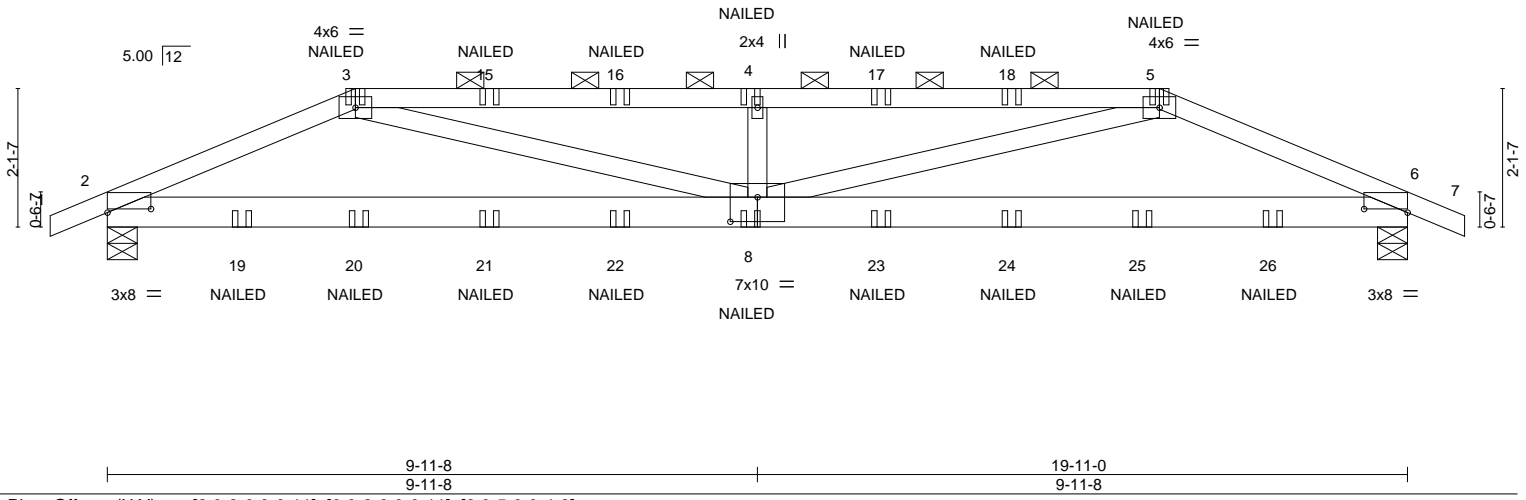


Plate Offsets (X,Y)--	[2:0-8-0,0-0-11], [6:0-8-0,0-0-11], [8:0-5-0,0-4-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.81	Vert(LL) -0.12 8 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.46	Vert(CT) -0.24 8-11 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.28	Horz(CT) 0.02 6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.15 8 >999 240	Weight: 101 lb	FT = 20%

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

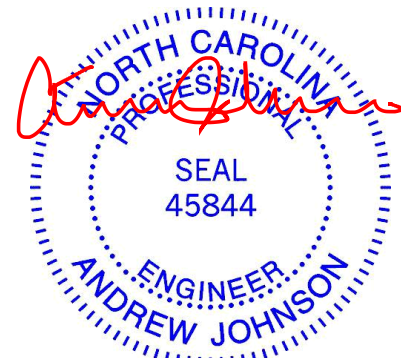
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-7-2 oc purlins, except 2-0-0 oc purlins (2-11-6 max.): 3-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=883/0-5-8, 6=882/0-5-8
 Max Horz 2=-38(LC 32)
 Max Uplift 2=-290(LC 4), 6=-288(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1559/603, 3-4=-2488/891, 4-5=-2488/891, 5-6=-1558/600
 BOT CHORD 2-8=-515/1420, 6-8=-508/1420
 WEBS 3-8=-337/1146, 4-8=-409/263, 5-8=-340/1149

- NOTES-** (10)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=290, 6=288.
 - 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).
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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, 5-7=-60, 9-12=-20
 Concentrated Loads (lb)
 Vert: 8=-4(B) 19=-18(B) 20=-4(B) 21=-4(B) 22=-4(B) 23=-4(B) 24=-4(B) 25=-4(B) 26=-18(B)



March 25, 2019

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 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



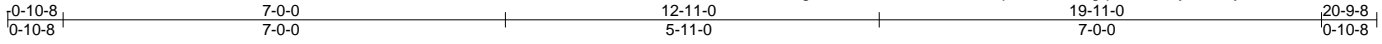
818 Soundside Road
 Edenton, NC 27932

Job 654050	Truss E05	Truss Type HIP	Qty 2	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507769
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Builders FirstSource, Sumter, SC - 29153,

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ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-q610le27dISgq41GQZmysktVmys2_AuBhrO1BEzXPo5



Scale = 1:36.5

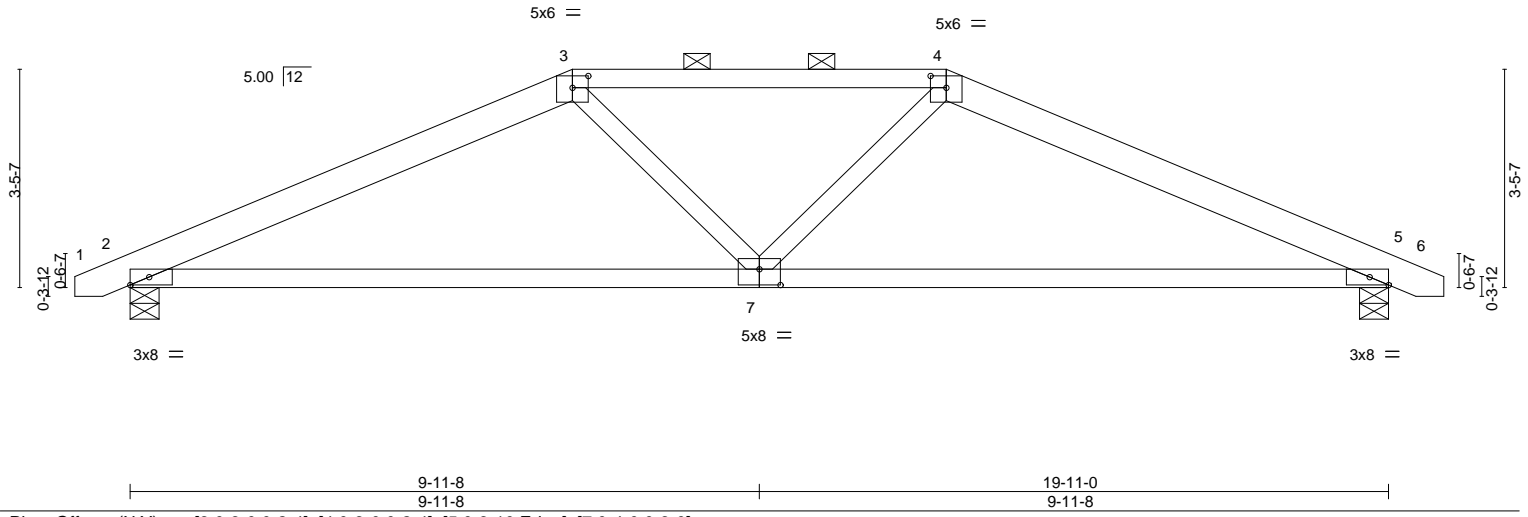


Plate Offsets (X,Y)-- [3:0-3-0,0-2-4], [4:0-3-0,0-2-4], [5:0-3-10,Edge], [7:0-4-0,0-3-0]

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 0.39	Vert(LL)	-0.13	7-13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.82	Vert(CT)	-0.27	7-10	>872		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.03	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.06	7-10	>999	Weight: 91 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (4-10-0 max.): 3-4.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 2=836/0-5-8, 5=836/0-5-8
 Max Horz 2=-63(LC 17)
 Max Uplift 2=-136(LC 8), 5=-136(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1326/427, 3-4=-1270/395, 4-5=-1326/427
 BOT CHORD 2-7=-285/1174, 5-7=-286/1174
 WEBS 3-7=0/271, 4-7=0/271

- NOTES-** (9)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=136, 5=136.
 - 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.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 25, 2019

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



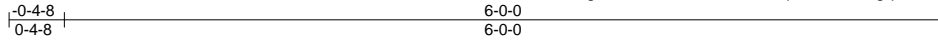
818 Soundside Road
 Edenton, NC 27932

Job 654050	Truss J01	Truss Type GABLE	Qty 3	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507770
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Builders FirstSource, Sumter, SC - 29153,

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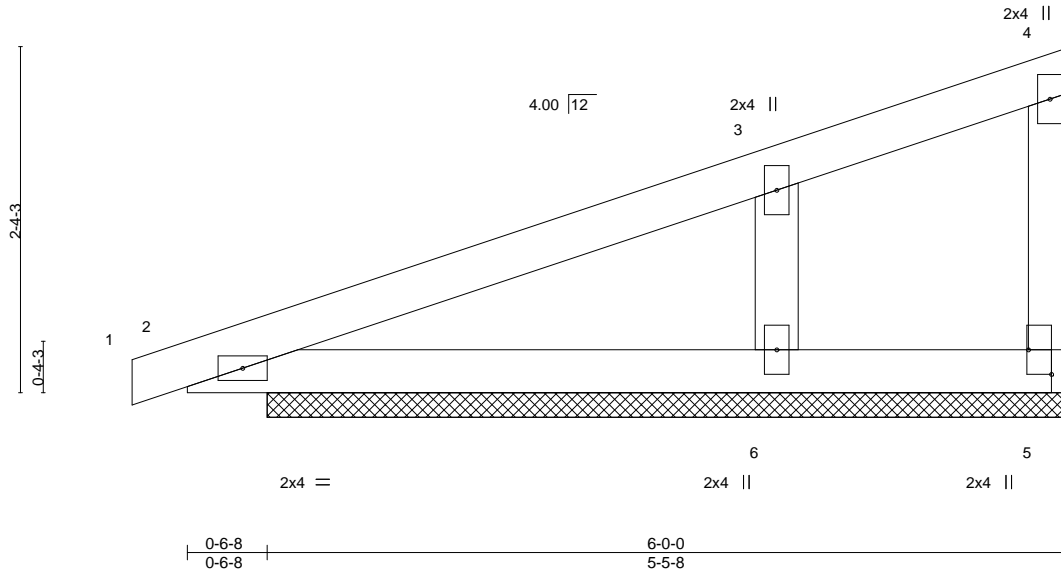


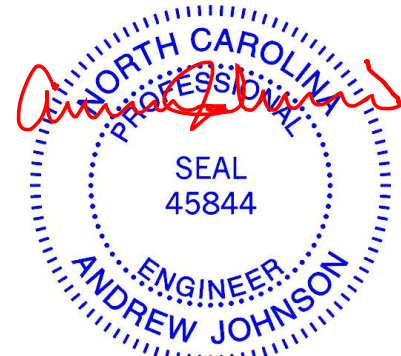
Plate Offsets (X,Y)--	[5:Edge,0-1-14]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P							
									Weight: 23 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.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. (lb/size) 5=11/5-5-8, 2=154/5-5-8, 6=326/5-5-8
 Max Horz 2=99(LC 11)
 Max Uplift 5=8(LC 11), 2=38(LC 8), 6=104(LC 12)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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 studs spaced at 2-0-0 oc.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2 except (jt=lb) 6=104.
 - 7) Non Standard bearing condition. Review required.



March 25, 2019

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

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818 Soundside Road
 Edenton, NC 27932

Job 654050	Truss J02	Truss Type Monopitch	Qty 25	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507771
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Builders FirstSource, Sumter, SC - 29153,

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ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-JlbOW_3lObaXSEcS_GHBPxQgYmJ5jelLvV8bjgzXPo4

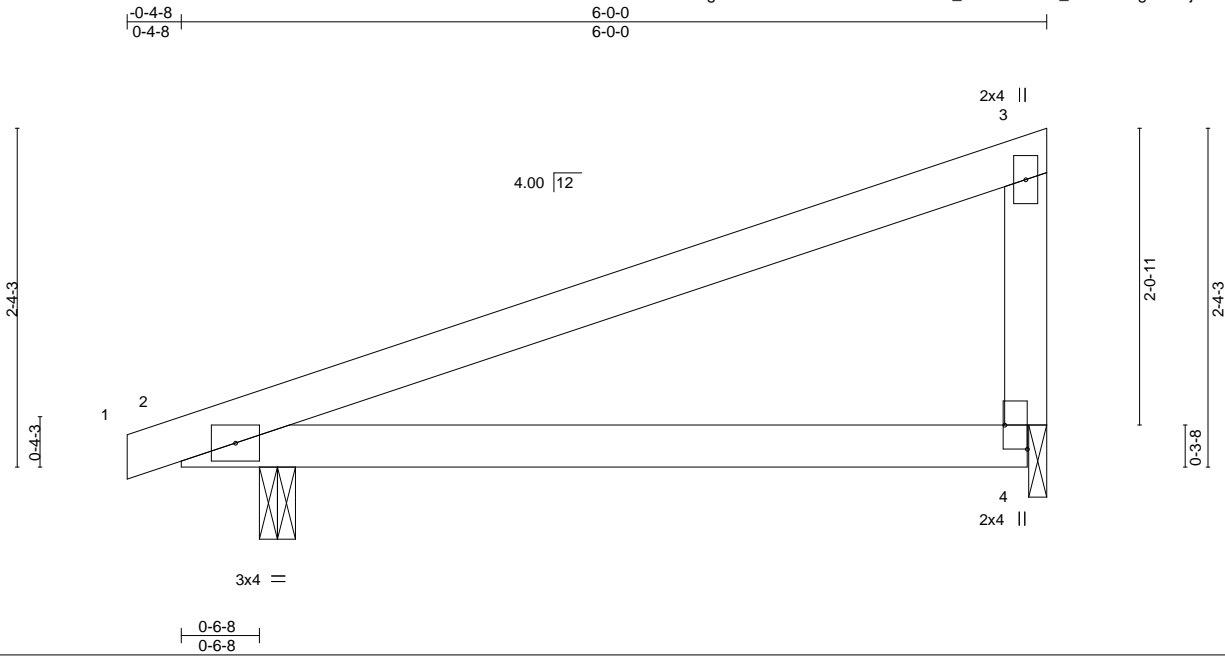


Plate Offsets (X,Y)--	[4:Edge,0-1-14]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.39	Vert(LL) 0.09 4-8 >776 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.32	Vert(CT) -0.07 4-8 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 2 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS		Weight: 21 lb	FT = 20%

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

REACTIONS. (lb/size) 2=290/0-3-0, 4=200/0-1-8
 Max Horz 2=94(LC 8)
 Max Uplift 2=141(LC 8), 4=120(LC 8)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=141, 4=120.
- 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.



March 25, 2019

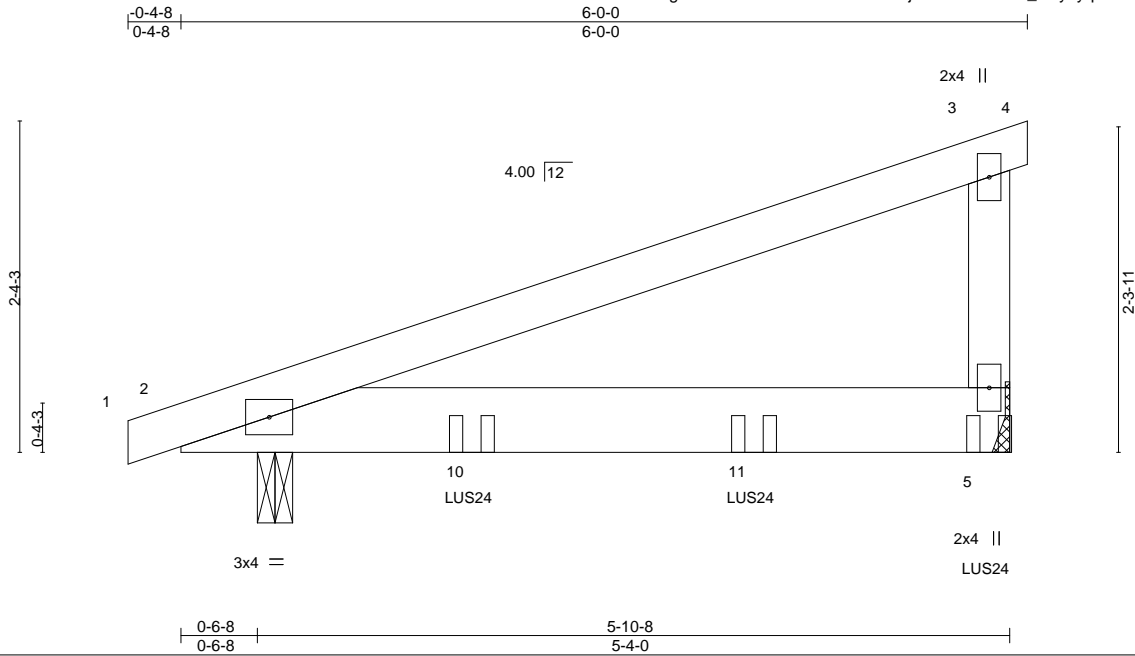
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY TRENCO <small>A MiTek Affiliate</small></p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 654050	Truss J03	Truss Type Monopitch Girder	Qty 5	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507772
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Builders FirstSource, Sumter, SC - 29153,

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ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-nU9mjK3N9viO4NBfy_oQy9yqhmaOS5?U89t8F6zXPo3
6-0-0
6-0-0



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 0.49	Vert(LL)	-0.05	5-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.70	Vert(CT)	-0.09	5-9	>725		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.06	5-9	>999		
								Weight: 26 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.
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) 5=848/Mechanical, 2=630/0-3-0
Max Horz 2=96(LC 19)
Max Uplift 5=-275(LC 4), 2=-217(LC 4)

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

- NOTES-** (9)
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left exposed; end vertical left exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=275, 2=217.
 - 6) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 5-8-12 to connect truss(es) to front face of bottom chord.
 - 7) Fill all nail holes where hanger is in contact with lumber.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
 - 9) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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=-20, 2-5=-20
Concentrated Loads (lb)
Vert: 5=-337(F) 10=-326(F) 11=-328(F)

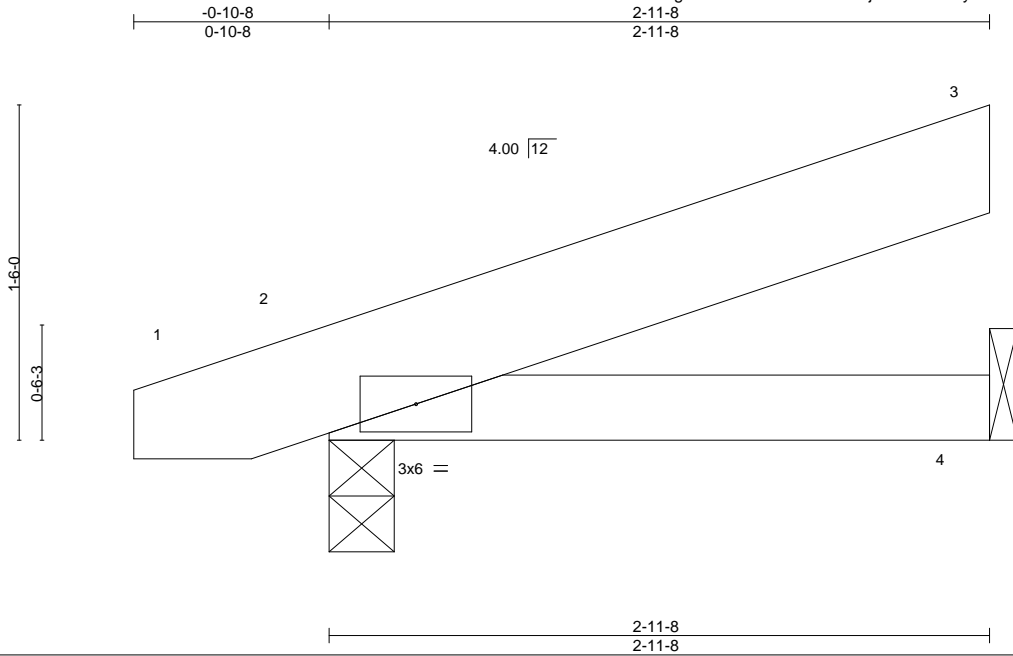


March 25, 2019

Job 654050	Truss J04	Truss Type Monopitch	Qty 70	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507773
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Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:04:12 2019 Page 1
ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-jtHX805dhWy6JhL1fPru1a2FjalSw?VncTMFK?zXPo1



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 0.13	Vert(LL)	-0.02	4-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.47	Vert(CT)	-0.03	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-MP	Wind(LL)	0.03	4-7	>999	240		
									Weight: 14 lb	FT = 20%

LUMBER-

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

BRACING-

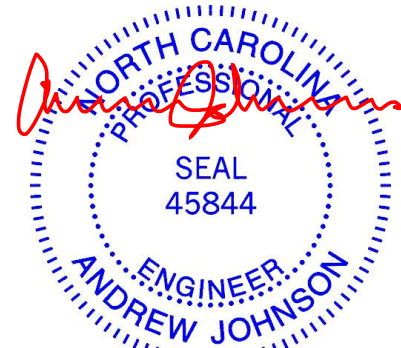
TOP CHORD Structural wood sheathing directly applied or 2-11-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=156/0-3-8, 4=116/Mechanical
Max Horz 2=51(LC 8)
Max Uplift 2=-48(LC 8), 4=-40(LC 9)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



March 25, 2019

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

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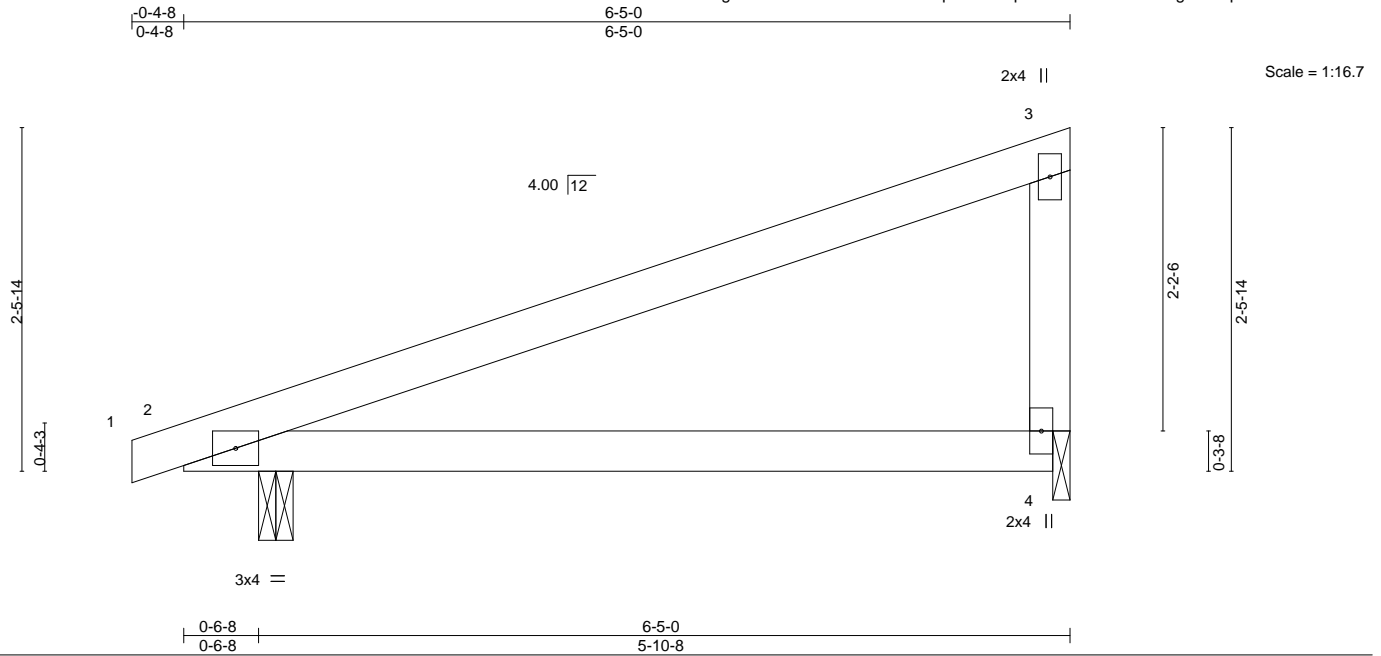
818 Soundside Road
Edenton, NC 27932

Job 654050	Truss J05	Truss Type Monopitch	Qty 12	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507774
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Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:04:13 2019 Page 1

ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-B3qvLM6FSq5zxrwED6M7ZnaLUzGAFslxq76osRzXPo0



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)	0.12 4-8	>615	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.38	Vert(CT)	-0.09 4-8	>801	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-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 2=307/0-3-0, 4=218/0-1-8
 Max Horz 2=100(LC 8)
 Max Uplift 2=-148(LC 8), 4=-130(LC 8)

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

- NOTES-** (8)
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - 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=148, 4=130.
 - 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.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 25, 2019

Job 654050	Truss J06	Truss Type Monopitch Girder	Qty 2	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507775
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Builders FirstSource, Sumter, SC - 29153,

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ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-fGOHZh6uC8DqZ?VQnqtM6?7VNNuEOv?43nrMOTzXPo?

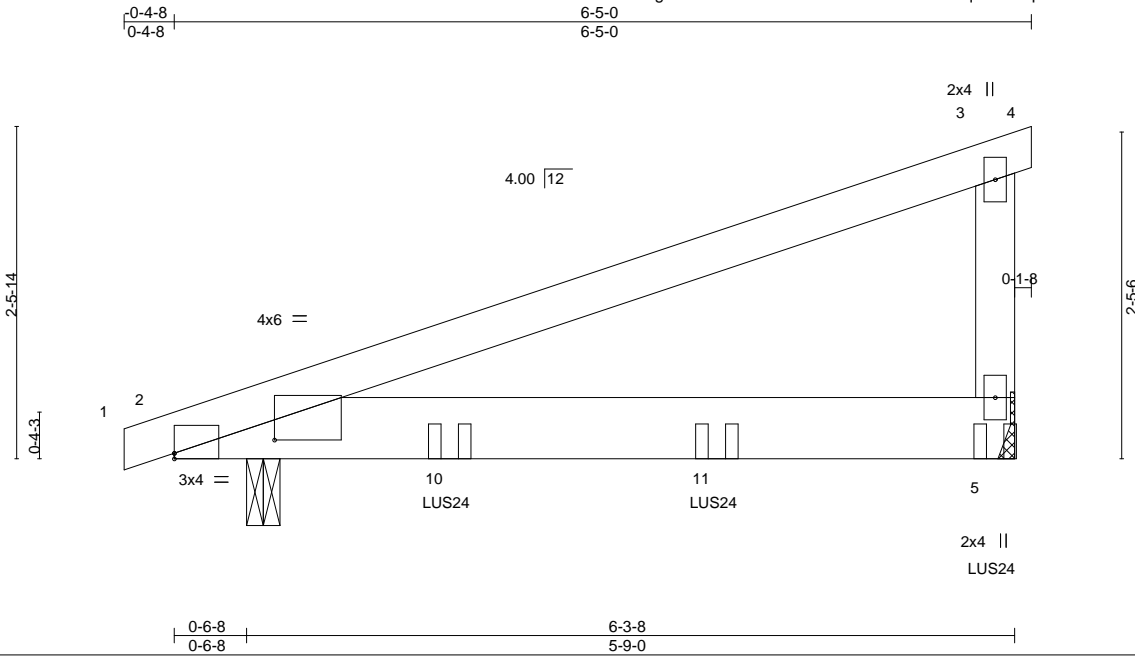


Plate Offsets (X,Y)--	[2:0-9-0,0-1-3], [2:0-0-0,0-0-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.57	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.83	Vert(LL) -0.06 5-9 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.12 5-9 >590 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MP	Horz(CT) 0.00 5 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.08 5-9 >939 240	Weight: 28 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.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-6-6 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (lb/size) 5=841/Mechanical, 2=670/0-3-0
 Max Horz 2=103(LC 19)
 Max Uplift 5=-279(LC 4), 2=-230(LC 4)

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

- NOTES-** (9)
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left exposed; end vertical left exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=279, 2=230.
 - 6) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-1-0 oc max. starting at 2-0-12 from the left end to 6-1-12 to connect truss(es) to front face of bottom chord.
 - 7) Fill all nail holes where hanger is in contact with lumber.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
 - 9) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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=-20, 2-5=-20	
Concentrated Loads (lb)	
Vert: 5=-337(F) 10=-326(F) 11=-328(F)	



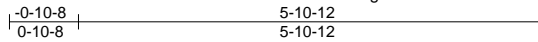
March 25, 2019

Job 654050	Truss J07	Truss Type JACK-OPEN	Qty 42	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507776
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Builders FirstSource, Sumter, SC - 29153,

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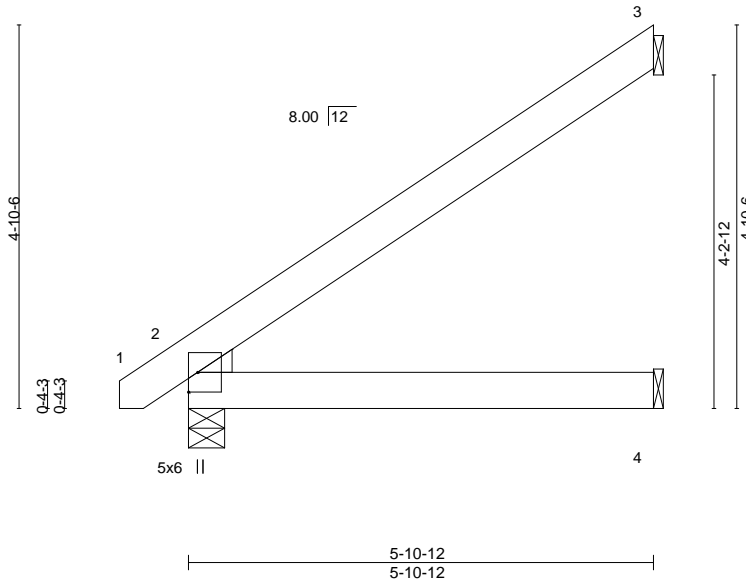


Plate Offsets (X,Y)--	[2:0-0-7,0-0-11], [2:0-0-15,0-4-14]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.20	Vert(LL) 0.03 4-7 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.16	Vert(CT) -0.03 4-7 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.01 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS		Weight: 34 lb	FT = 20%

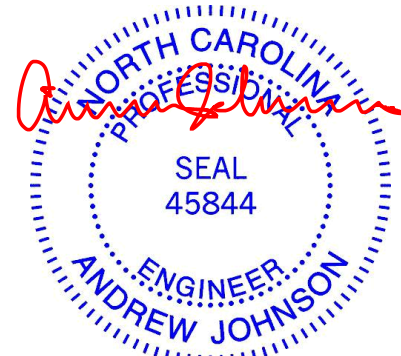
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEDGE
Left: 2x4 SP No.3

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

REACTIONS. (lb/size) 3=155/Mechanical, 2=279/0-5-8, 4=75/Mechanical
Max Horz 2=191(LC 12)
Max Uplift 3=130(LC 12), 2=9(LC 12)
Max Grav 3=175(LC 19), 2=279(LC 1), 4=108(LC 3)

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

- NOTES-** (7)
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; 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.
 - 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) 3=130.
 - 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.
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 25, 2019

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job 654050	Truss J08	Truss Type HALF HIP	Qty 4	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507777
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Builders FirstSource, Sumter, SC - 29153,

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ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-beW2_N88klTYolepuFvqBQCxTBkdspzNW5KSSmzXPnz



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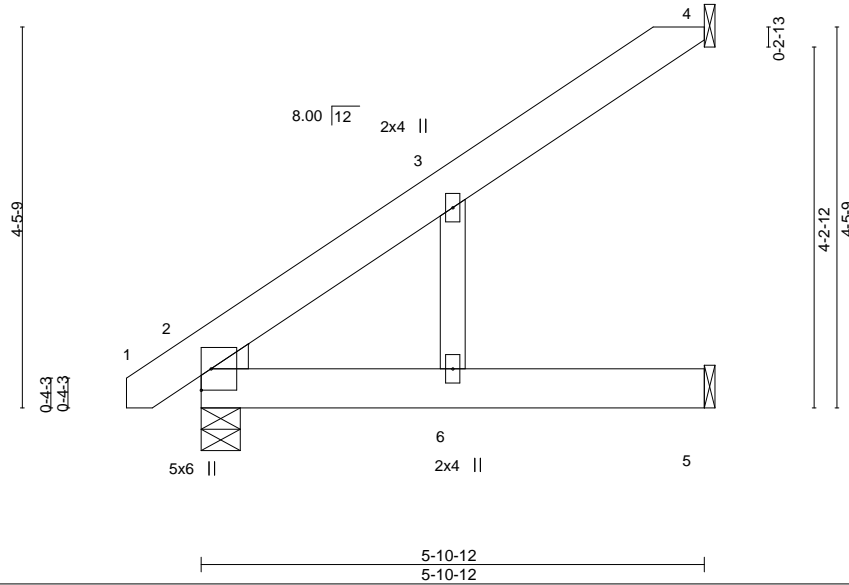


Plate Offsets (X,Y)--	[2:0-0-7,0-0-11], [2:0-0-15,0-4-14]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	0.03	6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.20	Vert(CT)	-0.04	6	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.01	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS						
								Weight: 36 lb	FT = 20%

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

REACTIONS. (lb/size) 4=134/Mechanical, 2=279/0-5-8, 5=97/Mechanical
 Max Horz 2=191(LC 12)
 Max Uplift 4=-100(LC 12), 2=-9(LC 12), 5=-30(LC 12)
 Max Grav 4=150(LC 19), 2=279(LC 1), 5=105(LC 19)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

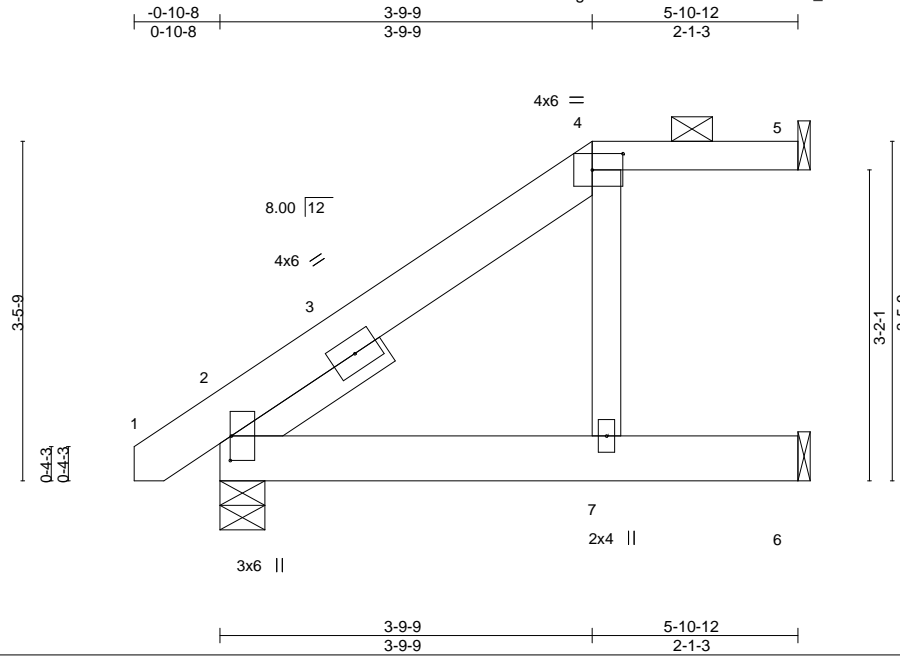


Job 654050	Truss J09	Truss Type HALF HIP	Qty 4	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507778
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Builders FirstSource, Sumter, SC - 29153,

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ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-beW2_N88kiTYolepuFvqBQCy?BjQspjNW5KSSmzXPnz



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Plate Offsets (X,Y)--	[2:0-3-0,0-0-2], [4:0-3-12,0-2-0]				
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 0.12	Vert(LL) -0.02 7-10 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.28	Vert(CT) -0.04 7-10 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.04 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.03 7-10 >999 240	Weight: 37 lb	FT = 20%

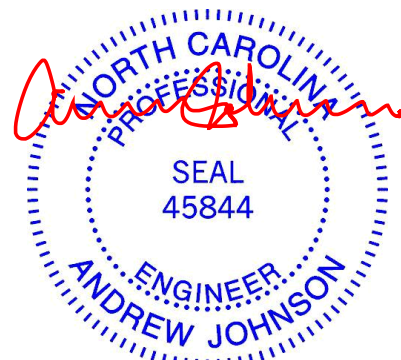
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 4-5: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins: 4-5.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	
SLIDER Left 2x4 SP No.3 1-9-13	

REACTIONS. (lb/size) 5=61/Mechanical, 2=286/0-5-8, 6=158/Mechanical
 Max Horz 2=136(LC 12)
 Max Uplift 5=-33(LC 8), 2=-39(LC 12), 6=-47(LC 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=120mph (3-second gust) Vasd=95mph; 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) 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) 5, 2, 6.
- 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.



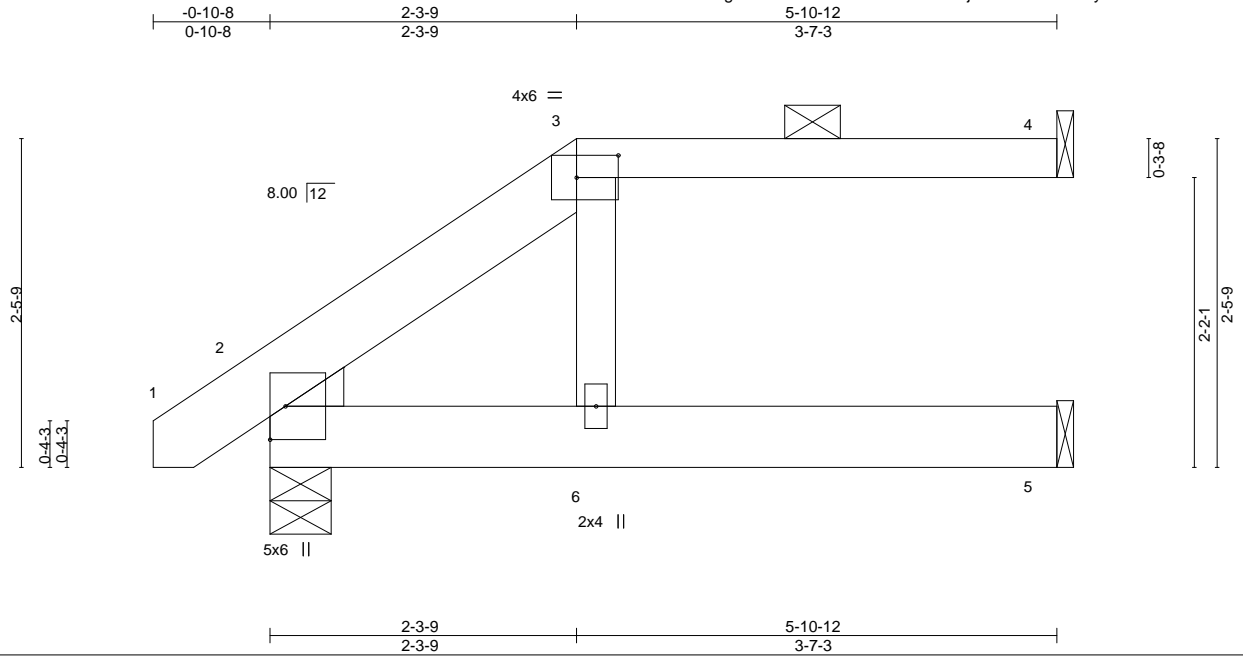
March 25, 2019

Job 654050	Truss J10	Truss Type HALF HIP	Qty 4	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507779
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ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-4r4QBj9mV3bOQSD?SyQ3kd14nb1xbGvWll40_CzXPny



Scale = 1:17.3

Plate Offsets (X,Y)--	[2:0-0-15,0-4-14], [2:0-0-7,0-0-11], [3:0-3-12,0-2-0]
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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 0.24	Vert(LL)	-0.02	6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.32	Vert(CT)	-0.05	5-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.05	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.03	6	>999	240	Weight: 32 lb	FT = 20%

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

REACTIONS. (lb/size) 4=106/Mechanical, 2=279/0-5-8, 5=125/Mechanical
 Max Horz 2=92(LC 12)
 Max Uplift 4=-57(LC 8), 2=-43(LC 12), 5=-4(LC 12)
 Max Grav 4=106(LC 1), 2=279(LC 1), 5=139(LC 3)

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=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 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.



March 25, 2019

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY TRENCO <small>A MiTek Affiliate</small></p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 654050	Truss J11	Truss Type HALF HIP GIRDER	Qty 4	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507780
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Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:04:18 2019 Page 1
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5-10-12
5-1-3

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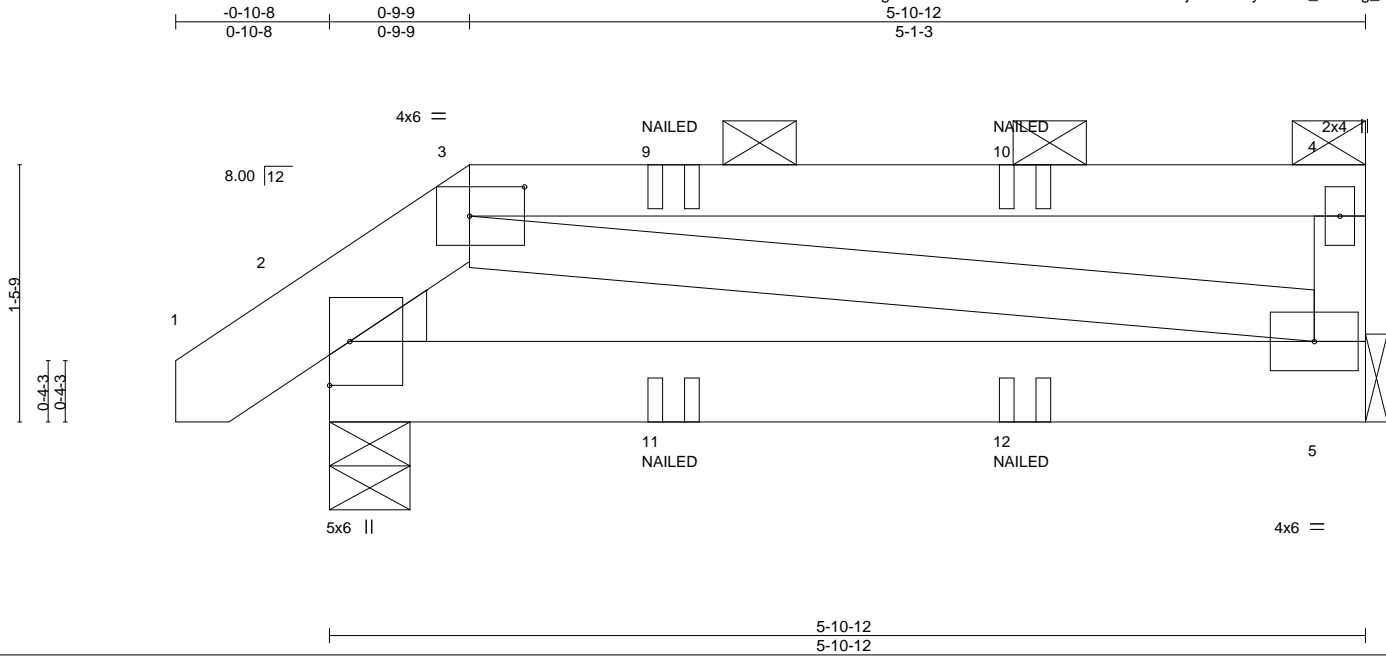


Plate Offsets (X,Y)--	[2:0-0-15,0-4-14], [2:0-0-7,0-0-11], [3:0-3-12,0-2-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.55	Vert(LL) -0.01 5-8 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(CT) -0.01 5-8 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.08	Horz(CT) 0.00 2 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP	Wind(LL) 0.00 5-8 >999 240	Weight: 35 lb	FT = 20%

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

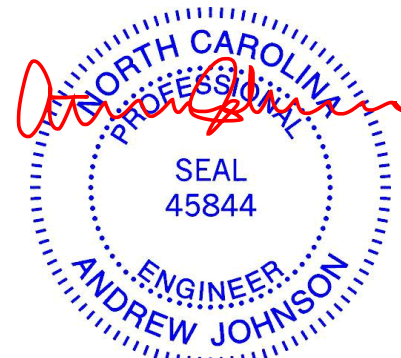
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-12 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=230/Mechanical, 2=278/0-5-8
Max Horz 2=48(LC 8)
Max Uplift 5=-69(LC 5), 2=-56(LC 5)

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

- NOTES-** (11)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left exposed; 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) 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) 5, 2.
 - 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).
 - 11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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, 5-6=-20
Concentrated Loads (lb)
Vert: 11=-2(B) 12=-2(B)



March 25, 2019

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

Job 654050	Truss J12	Truss Type JACK-OPEN	Qty 8	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507781
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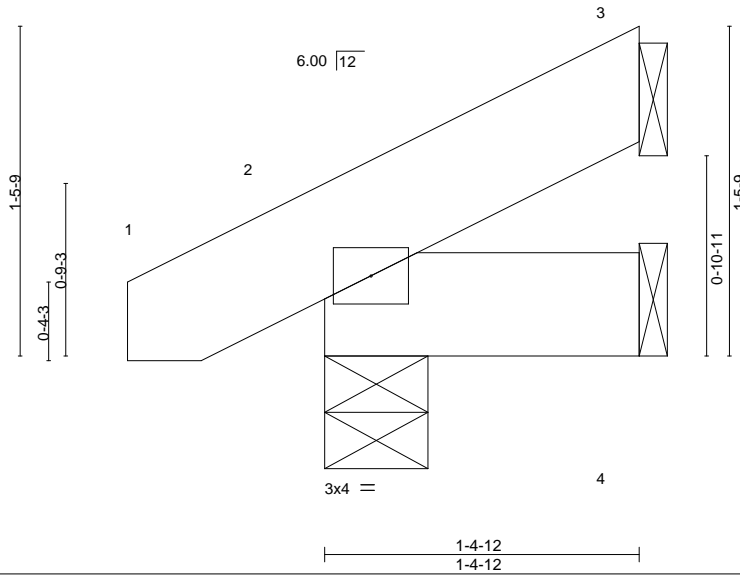
Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:04:19 2019 Page 1

ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-ODCAcPA01gr6fmNNaNTXp2qTnOok3AEpD3Z725zXPnw



Scale = 1:10.2



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 0.02	Vert(LL)	-0.00	7 >999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00	7 >999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3 n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL)	0.00	7 >999	240		
								Weight: 10 lb	FT = 20%

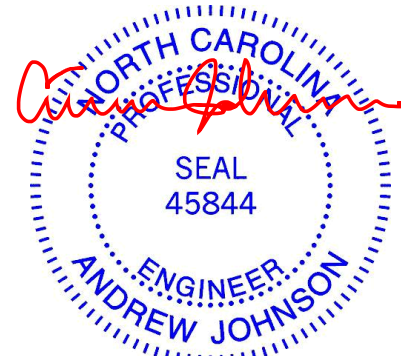
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-4-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=29/Mechanical, 2=109/0-5-8, 4=15/Mechanical
Max Horz 2=44(LC 12)
Max Uplift 3=-23(LC 12), 2=-23(LC 12), 4=-1(LC 12)
Max Grav 3=29(LC 1), 2=109(LC 1), 4=24(LC 3)

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

- NOTES-** (6)
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
 - 6) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 25, 2019

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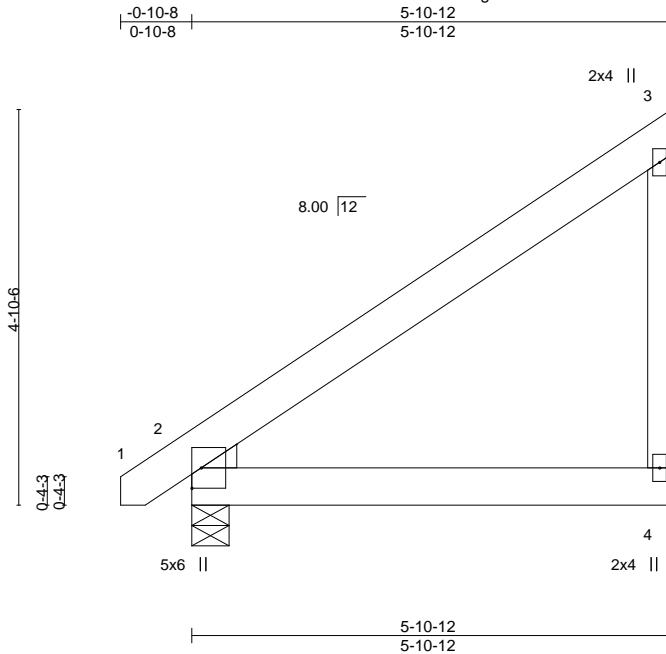
818 Soundside Road
Edenton, NC 27932

Job 654050	Truss J17	Truss Type JACK-CLOSED	Qty 4	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507782
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Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:04:20 2019 Page 1

ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-UQmYpIBeo_zzHwya74_mLGNblo6EodUyRiIgbXzXPnv



Scale = 1:28.3

Plate Offsets (X,Y)-- [2:0-0-7,0-0-11], [2:0-0-15,0-4-14]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.20	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.16	Vert(LL) 0.02 4-7 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.03 4-7 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.01 2 n/a n/a		
	Code IRC2015/TPI2014			Weight: 40 lb	FT = 20%

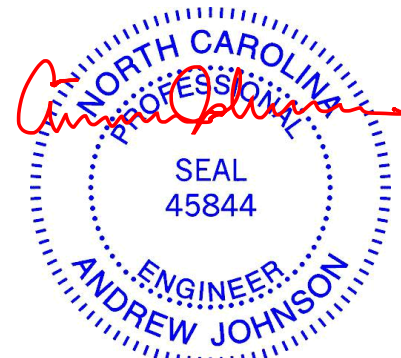
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

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

REACTIONS. (lb/size) 4=227/Mechanical, 2=276/0-5-8
Max Horz 2=189(LC 12)
Max Uplift 4=-128(LC 12), 2=-9(LC 12)
Max Grav 4=252(LC 19), 2=276(LC 1)

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

- NOTES-** (7)
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 4=128.
 - 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 7) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 25, 2019

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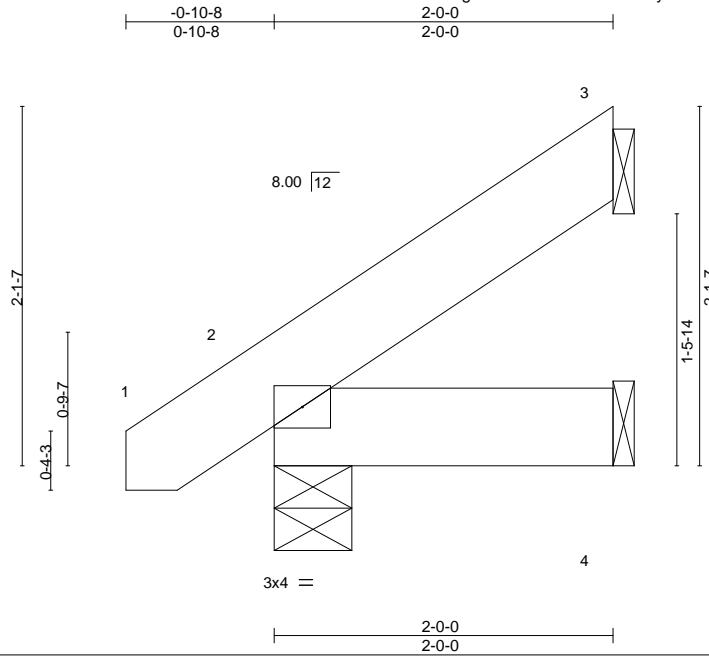
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job 654050	Truss J18	Truss Type JACK-OPEN	Qty 14	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507783
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Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:04:21 2019 Page 1

ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-ycJx15CHZH5qu4XmhoV?uTwpBCUbX4j6gM2D7zzXPnu



Scale = 1:13.6

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 0.02	Vert(LL)	0.00	7 >999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	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: 13 lb	FT = 20%

LUMBER-

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

BRACING-

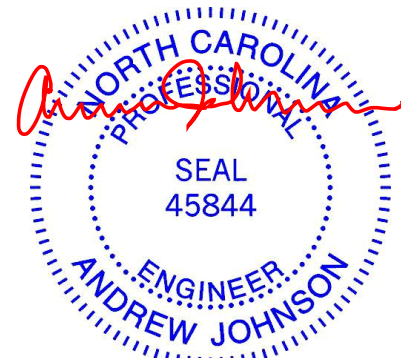
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=48/Mechanical, 2=131/0-5-8, 4=24/Mechanical
Max Horz 2=77(LC 12)
Max Uplift 3=-43(LC 12), 2=-14(LC 12), 4=-2(LC 12)
Max Grav 3=55(LC 19), 2=131(LC 1), 4=36(LC 3)

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

NOTES- (6)

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 6) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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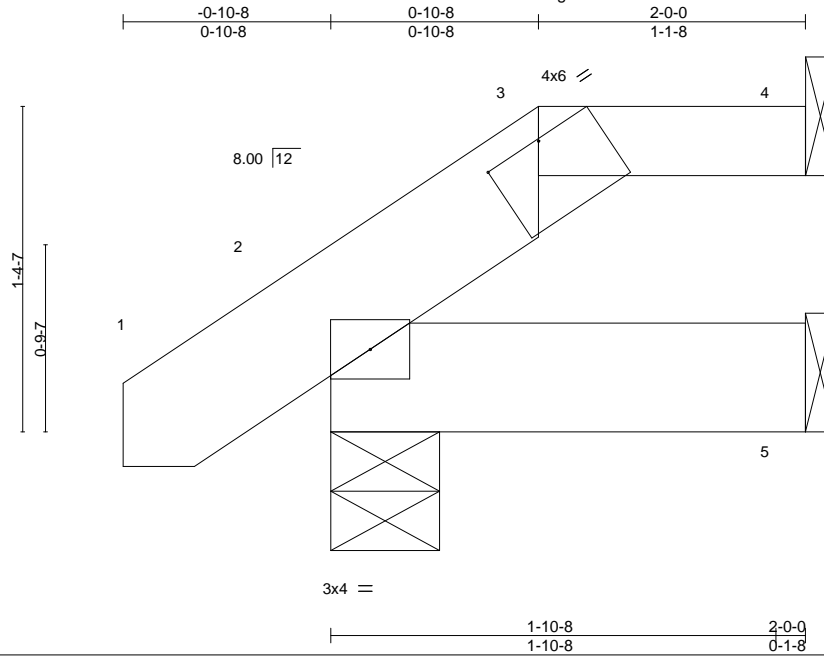
818 Soundside Road
Edenton, NC 27932

Job 654050	Truss J19	Truss Type Half Hip	Qty 4	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507784
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Builders FirstSource, Sumter, SC - 29153,

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ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-QotJERDvKbDhWD6yFV0ERhS_vcqYGXzFv0nnfQzXPnt



Scale = 1:9.7

Plate Offsets (X,Y)--	[3:0-3-0,0-0-2]								
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 0.02	Vert(LL) -0.00	8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.04	Vert(CT) -0.00	8	>999	240		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.00	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP	Wind(LL) 0.00	8	>999	240	Weight: 12 lb	FT = 20%

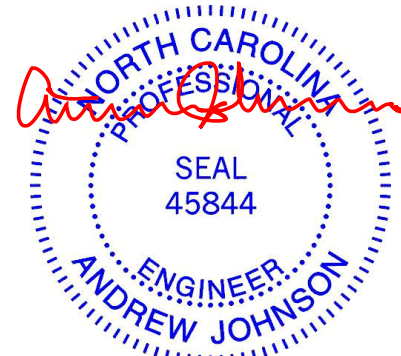
LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
3-4: 2x4 SP No.2
BOT CHORD 2x6 SP No.2

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

REACTIONS. (lb/size) 4=33/Mechanical, 2=131/0-5-8, 5=38/Mechanical
Max Horz 2=50(LC 12)
Max Uplift 4=-18(LC 8), 2=-26(LC 12), 5=-5(LC 12)
Max Grav 4=33(LC 1), 2=131(LC 1), 5=46(LC 3)

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=120mph (3-second gust) Vasd=95mph; 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 25, 2019

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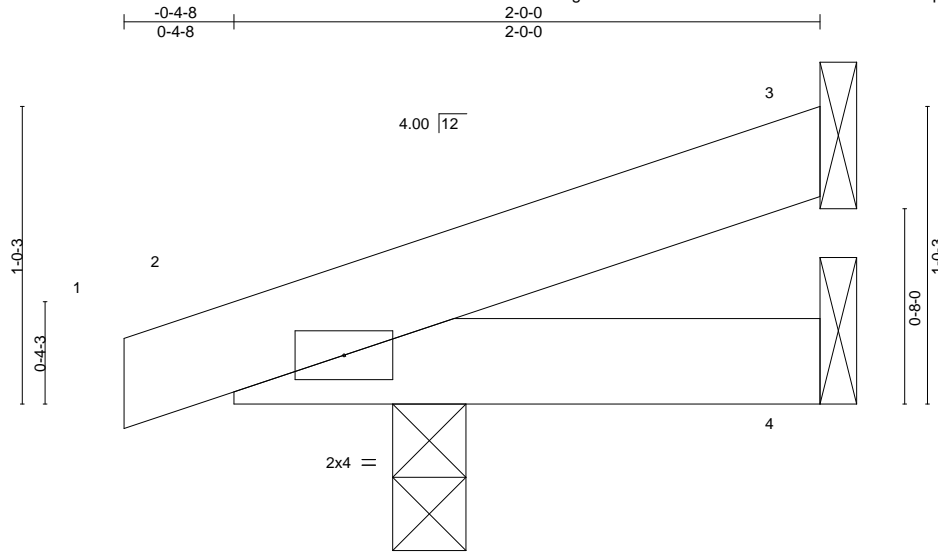
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818 Soundside Road
Edenton, NC 27932

Job 654050	Truss J20	Truss Type Jack-Open	Qty 4	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507785
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Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:04:23 2019 Page 1

ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-u?RhSmDX5vLY8Nh9pDXtZu?9a?Av?zDP7gXKCSzXPns



Scale = 1:7.9

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 0.03	Vert(LL)	-0.00	5	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	5	>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	Wind(LL)	0.00	9	>999		
								Weight: 7 lb	FT = 20%

LUMBER-

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

BRACING-

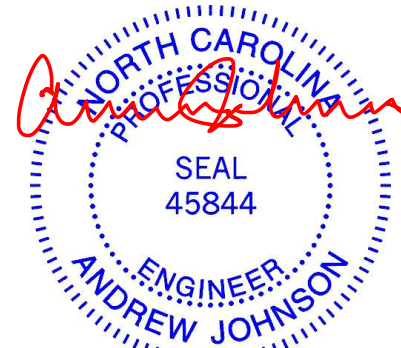
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=29/Mechanical, 4=10/Mechanical, 2=143/0-3-0
Max Horz 2=37(LC 8)
Max Uplift 3=-20(LC 12), 4=-7(LC 9), 2=-76(LC 8)
Max Grav 3=29(LC 1), 4=22(LC 3), 2=143(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4, 2.



March 25, 2019

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818 Soundside Road
Edenton, NC 27932

Job 654050	Truss J21	Truss Type Half Hip Girder	Qty 2	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507786
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Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:04:24 2019 Page 1

ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-MB?3f6E9sCTPIXGLMw2IW6YH6PT9kQIYMKGuklzXPnr



Scale = 1:10.7

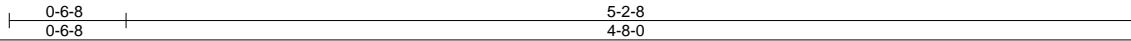
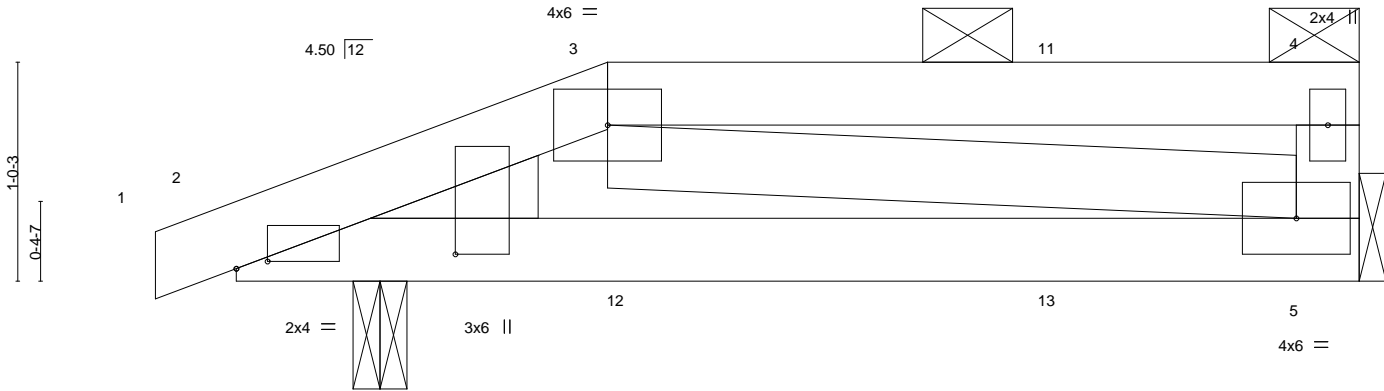


Plate Offsets (X, Y)--	[2:0-1-12,0-0-6]; [2:0-0-13,1-0-3]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.24	Vert(LL) -0.01 5-10 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.16	Vert(CT) -0.01 5-10 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.05	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP	Wind(LL) 0.01 5-10 >999 240	Weight: 23 lb	FT = 20%

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

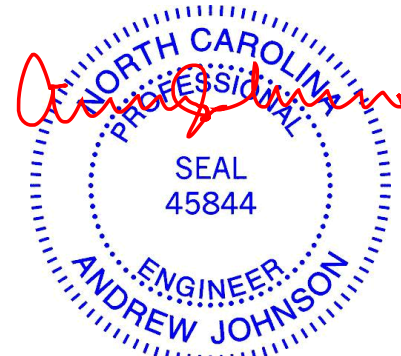
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-2-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=174/Mechanical, 2=252/0-3-0
 Max Horz 2=35(LC 4)
 Max Uplift 5=93(LC 4), 2=131(LC 4)

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

- NOTES-** (11)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left exposed; end vertical left exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=131.
 - 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) 11 lb down and 15 lb up at 1-8-11, and 11 lb down and 15 lb up at 3-10-12 on top chord, and 1 lb down and 14 lb up at 1-10-12, and 1 lb down and 14 lb up at 3-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
 - This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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, 5-6=-20
 Concentrated Loads (lb)
 Vert: 12=1(F) 13=1(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 654050	Truss J22	Truss Type Half Hip	Qty 2	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507787
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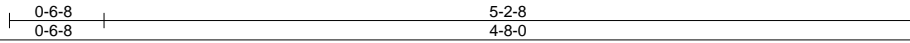
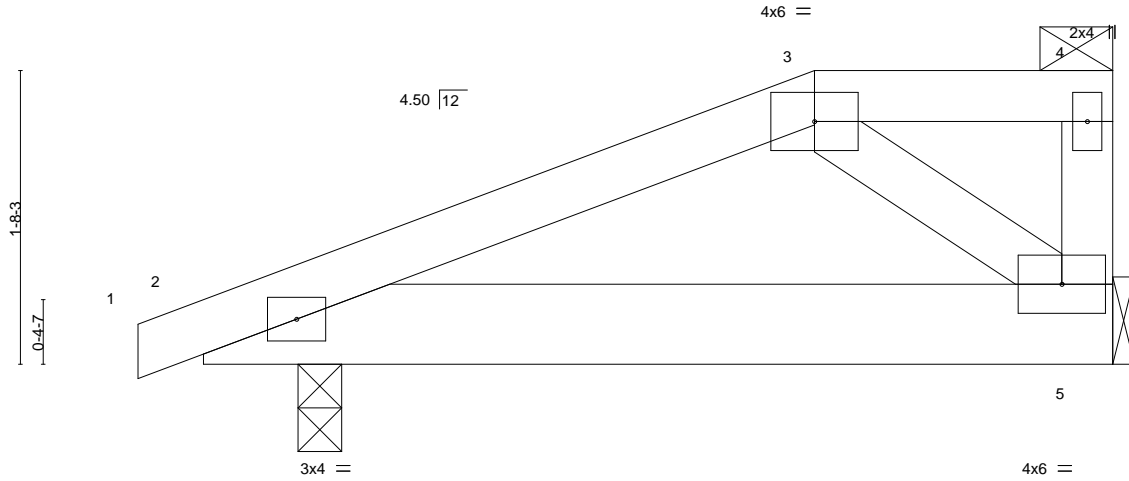
Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:04:26 2019 Page 1

ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-JZ7q4oGPOqj7?rPkUL5AbXdfqDAmCKLrqel_oBzXPnp



Scale = 1:13.2



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 0.09	Vert(LL)	0.01	5-9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	-0.01	5-9	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	-0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS						Weight: 25 lb	FT = 20%

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

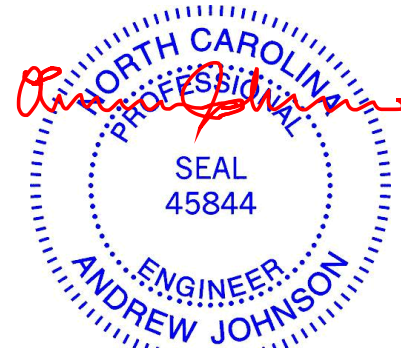
BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins: 3-4.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) 5=167/Mechanical, 2=260/0-3-0
 Max Horz 2=64(LC 12)
 Max Uplift 5=92(LC 8), 2=-126(LC 8)

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

NOTES-

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=126.
- 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.



March 25, 2019

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



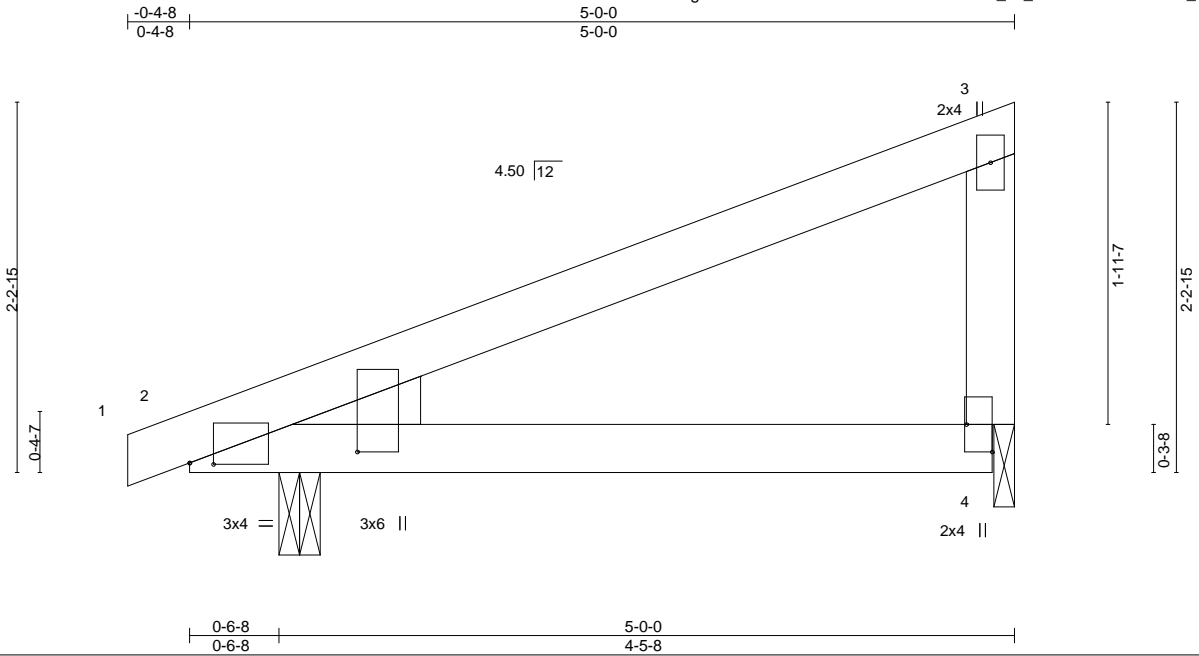
818 Soundside Road
 Edenton, NC 27932

Job 654050	Truss J23	Truss Type Monopitch	Qty 6	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507788
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Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:04:27 2019 Page 1

ID:Ox8smJ6gTzXhi90vcz7B9dzSnQN-nmhCH8H197r_c?_w22cP8k9oRdUixnD_2IVYLdzXPho



Scale = 1:14.0

Plate Offsets (X,Y)--	[2:0-1-12,0-0-2], [2:0-0-13,1-0-3], [4:Edge,0-1-14]				
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 0.23	Vert(LL) 0.05 4-9 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.23	Vert(CT) -0.03 4-9 >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: 20 lb	FT = 20%

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

REACTIONS. (lb/size) 2=245/0-3-0, 4=166/0-1-8
 Max Horz 2=86(LC 12)
 Max Uplift 2=-109(LC 8), 4=-97(LC 8)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed; end vertical left exposed; porch left 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) 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.
 - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=109.
 - 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.



March 25, 2019

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 654050	Truss J24	Truss Type Monopitch Girder	Qty 2	Ply 1	H&H/Hatteras/ Job Reference (optional)	136507789
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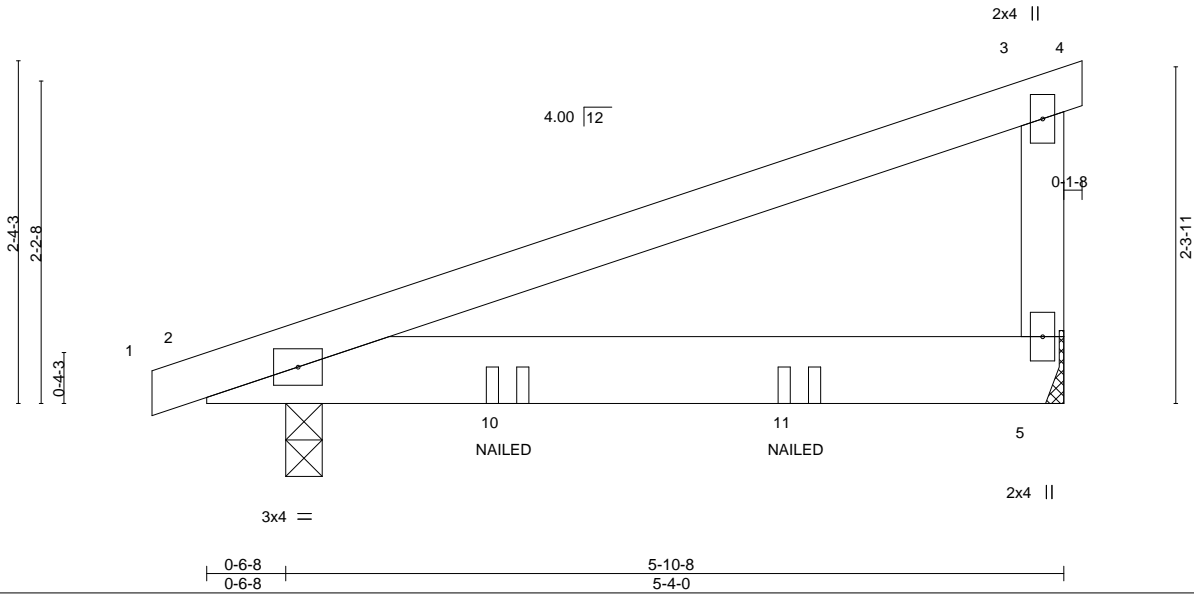
Builders FirstSource, Sumter, SC - 29153,

8.220 s Nov 16 2018 MiTek Industries, Inc. Mon Mar 25 11:04:28 2019 Page 1

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-0-4-8
0-4-8

6-0-0
6-0-0



Scale = 1:15.8

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)	0.05	5-9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.41	Vert(CT)	-0.06	5-9	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MP						Weight: 26 lb	FT = 20%

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

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

REACTIONS. (lb/size) 5=342/Mechanical, 2=445/0-3-0
Max Horz 2=96(LC 19)
Max Uplift 5=-205(LC 4), 2=-227(LC 4)

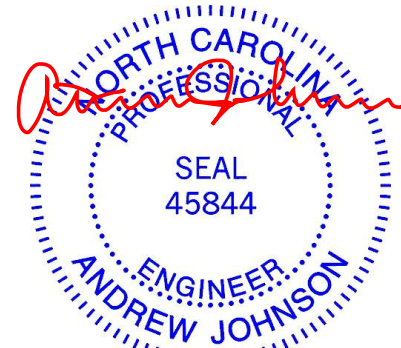
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left exposed; porch 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.
- 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) 5=205, 2=227.
- "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=-20, 2-5=-20
Concentrated Loads (lb)
Vert: 10=-154(B) 11=-147(B)



March 25, 2019

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

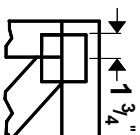
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



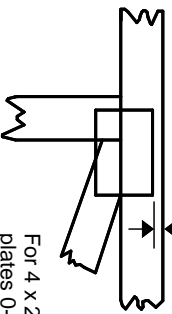
818 Soundside Road
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Symbols

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.

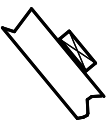
* Plate location details available in **MITrak 20/20 software or upon request.**

PLATE SIZE

4 X 4

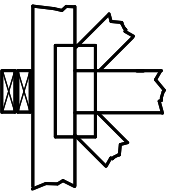
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



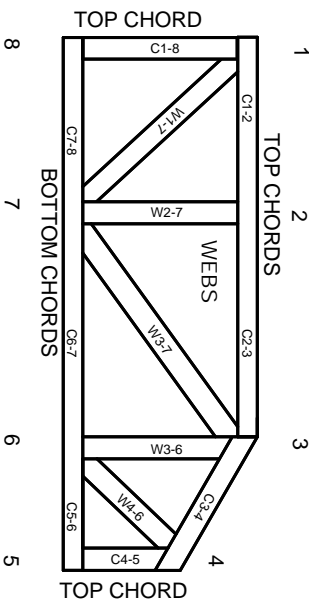
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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.