

RE: MASTER - A&G/Cedar/

Trenco
 818 Soundside Rd
 Edenton, NC 27932

Site Information:

Project Customer: H AND H Project Name: 2248142 MASTER OFA
 Lot/Block: Subdivision:
 Model:
 Address:
 City: State: NC

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.2
 Wind Code: ASCE 7-10 Wind Speed: 150 mph Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-10
 Roof Load: 40.0 psf Floor Load: N/A psf
 Mean Roof Height (feet): 25 Exposure Category: C

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I40339598	A01	2/20/20	35	I40339632	B02	2/20/20
2	I40339599	A02	2/20/20	36	I40339633	B03	2/20/20
3	I40339600	A03	2/20/20	37	I40339634		2/20/20
4	I40339601	A04	2/20/20	38	I40339635	B05	2/20/20
5	I40339602		2/20/20	39	I40339636	B06	2/20/20
6	I40339603	A06	2/20/20	40	I40339637	B07	2/20/20
7		A07	2/20/20	41	I40339638	B08	2/20/20
8	I40339605	A08	2/20/20		I40339639	B09	2/20/20
9	I40339606	A10	2/20/20	43		B10	2/20/20
10	I40339607	A11	2/20/20	44	I40339641	B11	2/20/20
11	I40339608	A12	2/20/20	45	I40339642	B12	2/20/20
12	I40339609	A13	2/20/20	46	I40339643	C01	2/20/20
13	I40339610		2/20/20	47	I40339644	C02	2/20/20
14	I40339611	A15	2/20/20	48	I40339645	CP01	2/20/20
	I40339612	A16	2/20/20	49	I40339646	CP02	2/20/20
16		A17	2/20/20	50	I40339647	D01	2/20/20
17	I40339614	A18	2/20/20		I40339648		2/20/20
18	I40339615	A19	2/20/20	52	I40339649	D03	2/20/20
19	I40339616	A20	2/20/20	53	I40339650	D04	2/20/20
20	I40339617	A21	2/20/20	54	I40339651	D05	2/20/20
21	I40339618	A22	2/20/20	55	I40339652	D06	2/20/20
22	I40339619		2/20/20	56	I40339653	D07	2/20/20
23	I40339620	A24	2/20/20	57	I40339654	D08	2/20/20
	I40339621	A25	2/20/20	58	I40339655	G01	2/20/20
25		A26	2/20/20	59	I40339656	G02	2/20/20
26	I40339623	A27	2/20/20		I40339657	G03	2/20/20
27	I40339624	A28	2/20/20	61	I40339658	J01	2/20/20
28	I40339625	A29	2/20/20	62	I40339659	J02	2/20/20
29	I40339626	A30	2/20/20	63	I40339660	J03	2/20/20
30	I40339627	A31	2/20/20	64	I40339661	J04	2/20/20
31	I40339628		2/20/20	65	I40339662	J05	2/20/20
32	I40339629	A33	2/20/20	66	I40339663	J06	2/20/20
	I40339630	A34	2/20/20	67	I40339664	J07	2/20/20
34		B01	2/20/20	68	I40339665	J08	2/20/20

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

Truss Design Engineer's Name: Liu, Xuegang

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

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



February 20,2020

Trenco
818 Soundside Rd
Edenton, NC 27932

RE: MASTER - A&G/Cedar/

No.	Seal#	Job ID#	Truss Name	Date
69	I40339666	MASTER	J09	2/20/20
70	I40339667	MASTER	J10	2/20/20
71	I40339668	MASTER	J11	2/20/20
72	I40339669	MASTER	J12	2/20/20
73	I40339670	MASTER	J13	2/20/20
74	I40339671	MASTER	J14	2/20/20
75	I40339672	MASTER	J15	2/20/20
76	I40339673	MASTER	J16	2/20/20
77	I40339674	MASTER	J17	2/20/20
78	I40339675	MASTER	PB01	2/20/20
79	I40339676	MASTER	PB02	2/20/20
80	I40339677	MASTER	V01	2/20/20
81	I40339678	MASTER	V02	2/20/20
82	I40339679	MASTER	V03	2/20/20
83	I40339680	MASTER	V04	2/20/20
84	I40339681	MASTER	V05	2/20/20
85	I40339682	MASTER	V06	2/20/20
86	I40339683	MASTER	V07	2/20/20
87	I40339684	MASTER	V08	2/20/20
88	I40339685	MASTER	V09	2/20/20
89	I40339686	MASTER	V10	2/20/20
90	I40339687	MASTER	V11	2/20/20
91	I40339688	MASTER	V12	2/20/20
92	I40339689	MASTER	V13	2/20/20
93	I40339690	MASTER	V14	2/20/20
94	I40339691	MASTER	V15	2/20/20
95	I40339692	MASTER	V16	2/20/20
96	I40339693	MASTER	V17	2/20/20
97	I40339694	MASTER	V18	2/20/20
98	I40339695	MASTER	V19	2/20/20
99	I40339696	MASTER	V20	2/20/20
100	I40339697	MASTER	V21	2/20/20
101	I40339698	MASTER	V22	2/20/20
102	I40339699	MASTER	V23	2/20/20
103	I40339700	MASTER	V24	2/20/20
104	I40339701	MASTER	V25	2/20/20
105	I40339702	MASTER	V26	2/20/20
106		MASTER	V27	2/20/20
107	I40339704	MASTER	V28	2/20/20
108	I40339705	MASTER	V29	2/20/20
109	I40339706	MASTER	V30	2/20/20
110	I40339707	MASTER	V31	2/20/20
111	I40339708	MASTER	V32	2/20/20
112	I40339709	MASTER	V33	2/20/20
113	I40339710	MASTER	V34	2/20/20
114	I40339711	MASTER	V35	2/20/20
115		MASTER	V36	2/20/20

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339598
MASTER	A01	Piggyback Base Supported Gable	4	1		

Builders FirstSource, Sumter, SC - 29153,

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ID:v7Ffc4jHuqlrogucND5EIUsWfo_LAjOShPMnd8rVAkACOAPGSj5c_?Vwko9OJKfzjDKD

0-10-8 23-10-14 32-9-2 36-6-8 37-1-8
 0-10-8 23-10-14 8-10-3 3-9-6 0-7-0

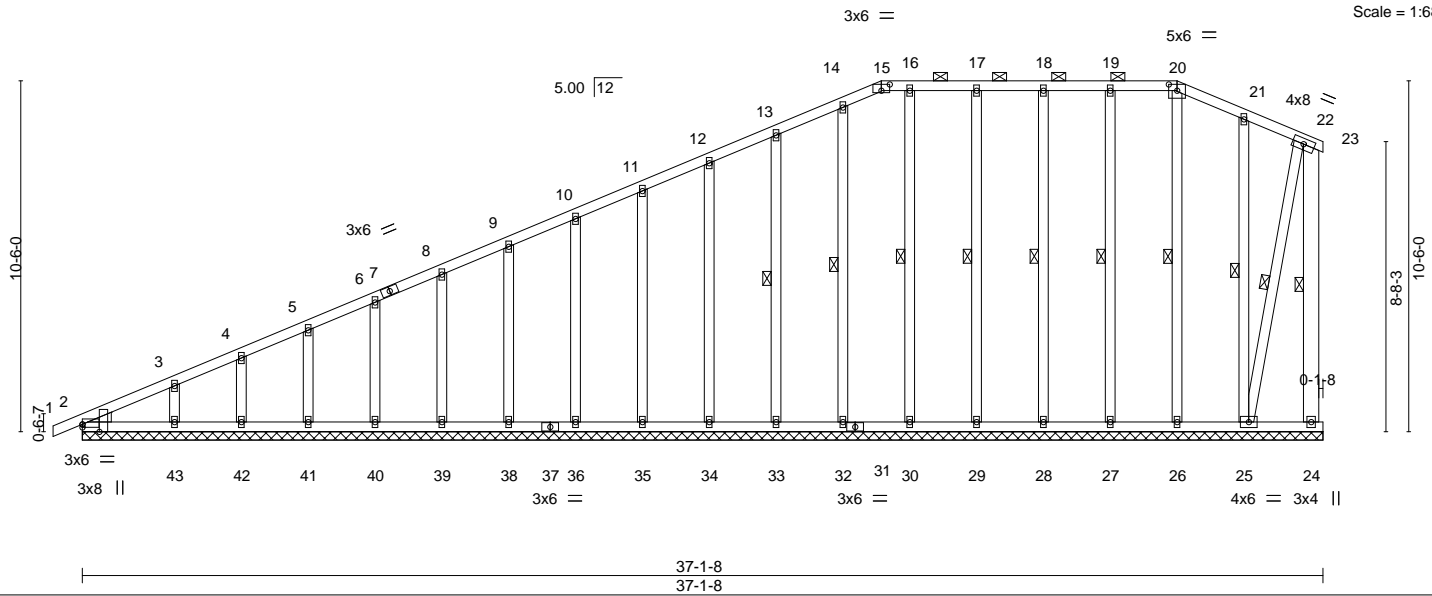


Plate Offsets (X,Y)-- [2:0-2-11,Edge], [2:0-0-0,0-1-1], [15:0-3-0,0-2-4], [20:0-3-0,0-2-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.33	Vert(LL)	0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.24	Vert(CT)	0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	-0.02	23	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						

Weight: 323 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 15-20.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
WEBS 2x6 SP No.2 *Except*	10-0-0 oc bracing: 24-25.
OTHERS 2x4 SP No.3	WEBS 1 Row at midpt
WEDGE Left: 2x4 SP No.2	22-24, 20-26, 19-27, 18-28, 17-29, 16-30, 14-32, 13-33, 21-25, 22-25

REACTIONS. All bearings 37-1-8.
 (lb) - Max Horz 2=627(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 26, 27, 28, 30, 32 except
 23=-286(LC 12), 24=-284(LC 11), 29=-104(LC 8), 33=-128(LC 12), 34=-113(LC 12), 35=-115(LC 12), 36=-115(LC 12), 38=-115(LC 12), 39=-115(LC 12), 40=-114(LC 12), 41=-118(LC 12), 42=-101(LC 12), 43=-194(LC 12), 25=-133(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 24, 2, 26, 27, 28, 29, 30, 32, 33, 34, 35, 36, 38, 39, 40, 41, 42, 43, 25 except 23=343(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-800/415, 3-4=-675/360, 4-5=-611/340, 5-6=-541/315, 6-8=-472/291, 8-9=-402/267, 9-10=-333/243, 10-11=-276/219, 11-12=-253/226, 12-13=-256/294, 13-14=-285/370, 14-15=-286/404, 15-16=-276/402, 16-17=-276/402, 17-18=-276/402, 18-19=-276/402, 19-20=-276/402, 20-21=-290/402, 21-22=-285/350, 22-24=-219/253
 WEBS 3-43=-167/263

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.



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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.

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

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 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/
MASTER	A01	Piggyback Base Supported Gable	4	1	I40339598 Job Reference (optional)

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NOTES-

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26, 27, 28, 30, 32 except (jt=lb) 23=286, 24=284, 29=104, 33=128, 34=113, 35=115, 36=115, 38=115, 39=115, 40=114, 41=118, 42=101, 43=194, 25=133.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339599
MASTER	A02	Piggyback Base	20	1		

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Scale = 1:71.8

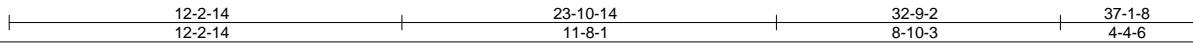
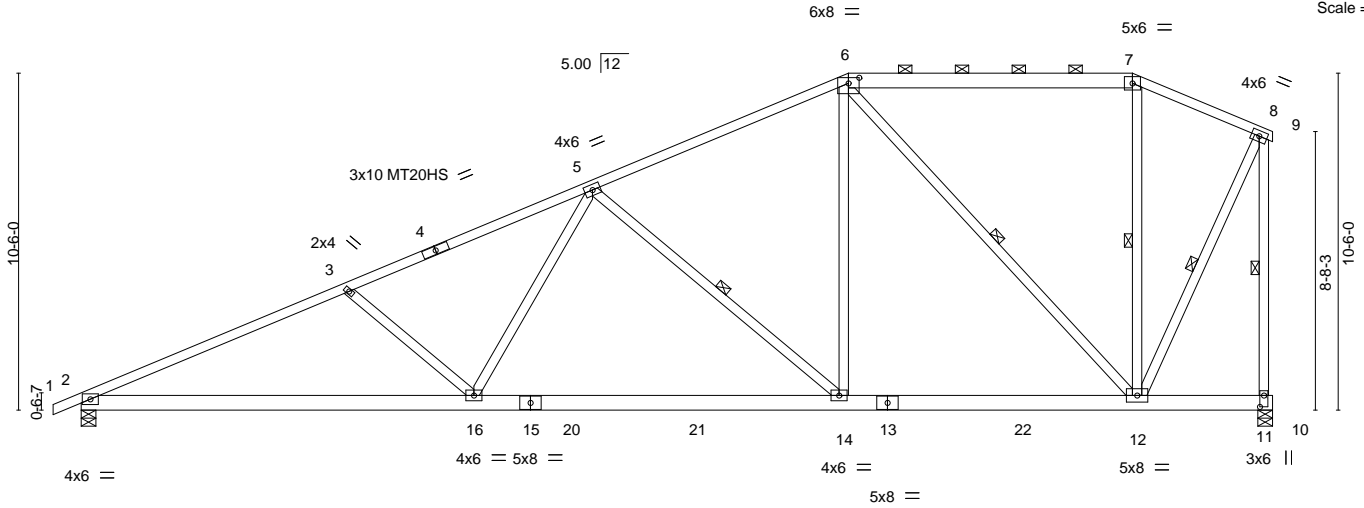


Plate Offsets (X, Y)-- [6:0-4-0,0-2-2], [11:0-4-4,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.72	Vert(LL)	-0.23 14-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.73	Vert(CT)	-0.40 14-16	>999	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.96	Horz(CT)	0.07 11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.23 16-19	>999	240		
								Weight: 262 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 6-7: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 6-12: 2x4 SP No.2	WEBS 1 Row at midpt 5-14, 6-12, 7-12, 8-11, 8-12

REACTIONS. (lb/size) 2=1527/0-5-8, 11=1484/0-5-8
 Max Horz 2=643(LC 12)
 Max Uplift 2=-732(LC 12), 11=-647(LC 8)
 Max Grav 2=1527(LC 1), 11=1486(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2974/1806, 3-5=-2600/1577, 5-6=-1525/992, 6-7=-552/491, 7-8=-624/453, 8-11=-1470/1019
 BOT CHORD 2-16=-2145/2668, 14-16=-1541/2007, 12-14=-882/1321
 WEBS 3-16=-481/611, 5-16=-307/711, 5-14=-950/865, 6-14=-440/995, 6-12=-1169/792, 7-12=-260/251, 8-12=-816/1286

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=732, 11=647.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20,2020

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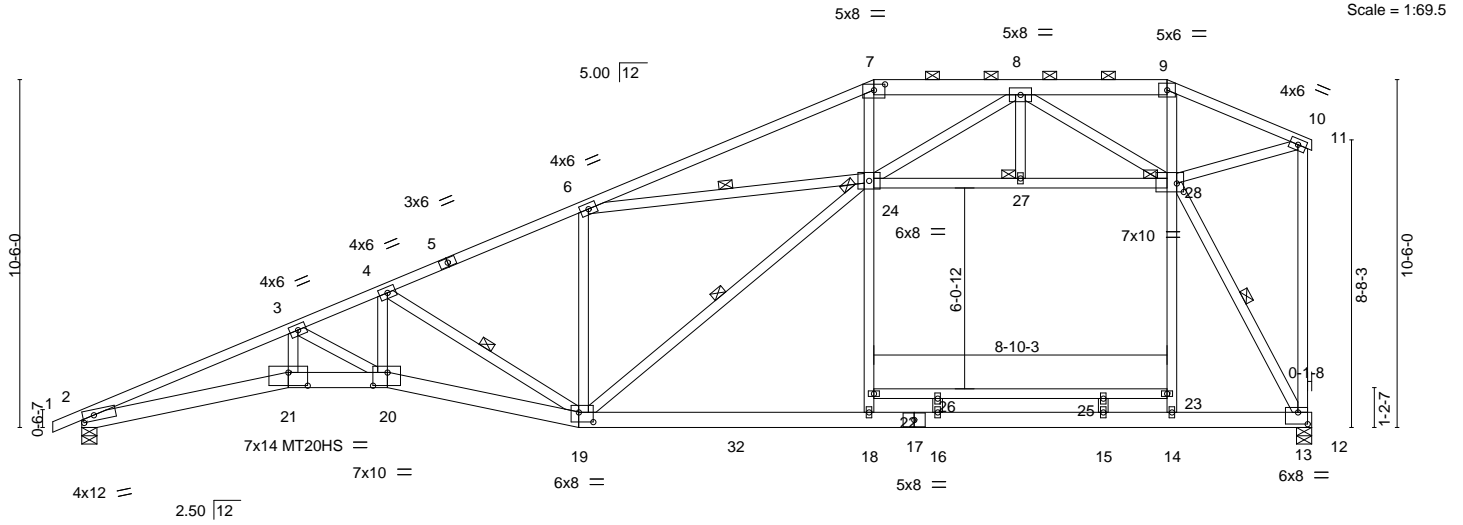
Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339600
MASTER	A03	Piggyback Base	34	1		

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0-10-8	6-2-13	9-2-11	15-0-0	23-10-14	28-4-0	32-9-2	37-1-8
0-10-8	6-2-13	2-11-14	5-9-5	8-10-14	4-5-2	4-5-2	4-4-6



Scale = 1:69.5

6-2-13	9-2-11	15-0-0	23-10-14	32-9-2	37-1-8
6-2-13	2-11-14	5-9-5	8-10-14	8-10-3	4-4-6

Plate Offsets (X, Y)-- [2:0-4-0,0-2-0], [7:0-4-0,0-2-2], [13:0-3-8,0-4-4], [19:0-5-4,0-3-8], [20:0-5-4,0-4-12], [21:0-7-0,0-4-12], [28:0-2-8,0-3-1]

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 0.90	Vert(LL)	-0.29	20	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.92	Vert(CT)	-0.61	20	>729	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.98	Horz(CT)	0.22	13	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.52	20	>858		Weight: 317 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 7-9: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-11-14 max.): 7-9.
BOT CHORD 2x6 SP No.2 *Except* 2-21,20-21: 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 22-23: 2x4 SP No.2	WEBS 1 Row at midpt 4-19, 6-24, 13-28, 19-24 JOINTS 1 Brace at Jt(s): 24, 27, 28

REACTIONS. (lb/size) 2=1573/0-5-8, 13=1638/0-5-8
Max Horz 2=643(LC 12)
Max Uplift 2=-684(LC 12), 13=-494(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5265/3272, 3-4=-4132/2494, 4-6=-2453/1357, 6-7=-2279/1274, 7-8=-1993/1291, 8-9=-375/651, 9-10=-499/727, 10-13=-255/442
BOT CHORD 2-21=-3577/4854, 20-21=-3466/4706, 19-20=-2806/3976, 18-19=-616/1135, 16-18=-605/1117, 15-16=-605/1117, 14-15=-605/1117, 13-14=-611/1132
WEBS 3-21=-522/774, 3-20=-1033/893, 4-20=-1020/1516, 4-19=-2006/1485, 6-19=-443/541, 18-22=0/452, 22-24=0/472, 7-24=-32/542, 14-23=0/443, 23-28=0/460, 9-28=-548/495, 24-27=-281/156, 27-28=-281/156, 8-24=-822/1346, 8-28=-1778/1151, 6-24=-221/362, 10-28=-686/545, 13-28=-2298/1233, 19-24=-1167/1425

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 200.0lb AC unit load placed on the bottom chord, 28-4-0 from left end, supported at two points, 5-0-0 apart.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 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=684, 13=494.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20, 2020

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

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

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339601
MASTER	A04	Piggyback Base	8	1		

Builders FirstSource, Sumter, SC - 29153,

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ID:zV7Fc4jHuqlrogucND5EIUzsWFO-s6PEEqkvQ_H3cToxz0HKKFQ4NjqXx8JinMxTQzjDK9

-0-10-8	6-2-13	9-2-11	15-0-0	23-10-14	32-9-2	42-11-12	47-4-3	56-8-0	57-6-8
0-10-8	6-2-13	2-11-14	5-9-5	8-10-14	8-10-3	10-2-10	4-4-7	9-3-13	0-10-8

Scale = 1:98.3

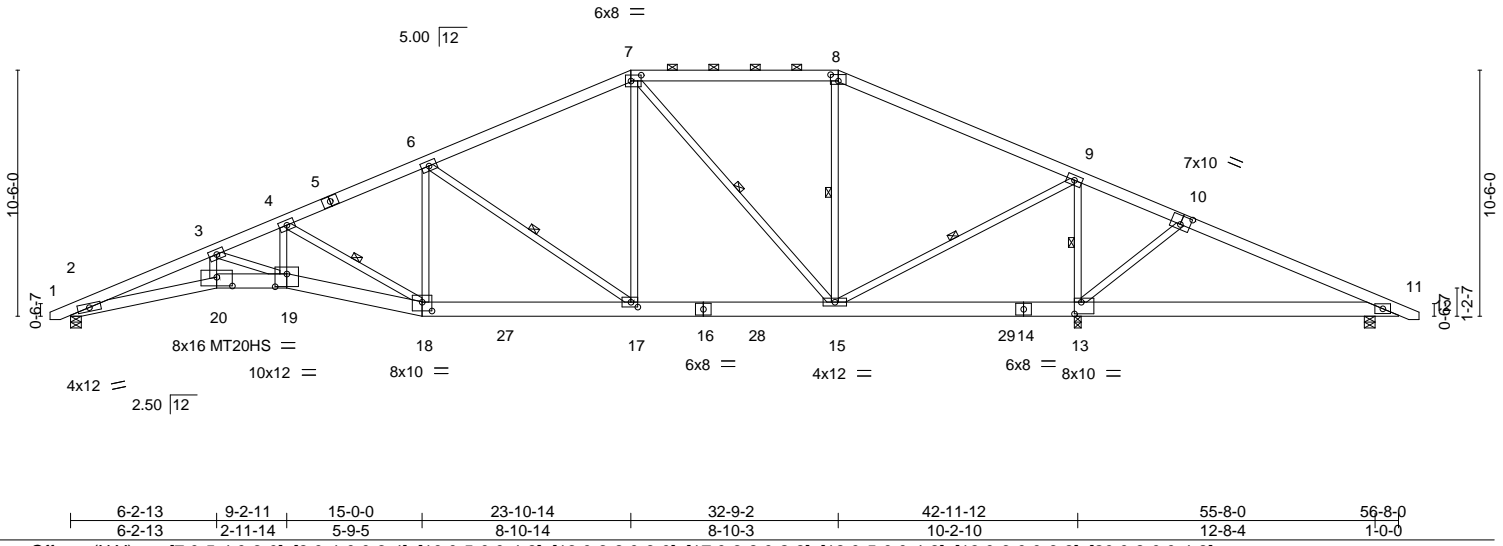


Plate Offsets (X,Y)--	[7:0-5-4,0-3-0], [8:0-4-0,0-3-4], [10:0-5-0,0-4-8], [13:0-3-8,0-6-0], [17:0-3-8,0-2-8], [18:0-5-0,0-4-8], [19:0-6-0,0-6-8], [20:0-8-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.55	Vert(LL)	-0.24	19	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.84	Vert(CT)	-0.49	19	>999	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.89	Horz(CT)	0.17	13	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.40	19	>999		
								Weight: 440 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x8 SP DSS *Except* 2-20: 2x6 SP No.1	2-0-0 oc purlins (6-0-0 max.): 7-8.
WEBS 2x4 SP No.3 *Except* 7-15: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
	WEBS 1 Row at midpt 4-18, 6-17, 7-15, 8-15, 9-15, 9-13

REACTIONS. (lb/size) 2=1603/0-5-8, 13=2900/0-3-8, 11=109/0-5-8
 Max Horz 2=-308(LC 13)
 Max Uplift 2=-759(LC 12), 13=-1047(LC 8), 11=-251(LC 13)
 Max Grav 2=1603(LC 1), 13=2900(LC 1), 11=321(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-5748/3621, 3-4=-4451/2858, 4-6=-2616/1801, 6-7=-1716/1284, 7-8=-886/908,
 8-9=-1080/839, 9-10=-661/1151, 10-11=-538/978
 BOT CHORD 2-20=-3243/5334, 19-20=-3231/5330, 18-19=-2494/4288, 17-18=-1264/2370,
 15-17=-524/1517, 13-15=-1007/979, 11-13=-859/643
 WEBS 3-20=-489/931, 3-19=-1321/912, 4-19=-875/1567, 4-18=-2154/1388, 6-18=-179/563,
 6-17=-1081/914, 7-17=-424/922, 7-15=-1017/609, 8-15=-250/278, 9-15=-1242/2158,
 9-13=-2297/1697, 10-13=-396/448

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 5x8 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 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=759, 13=1047, 11=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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20,2020

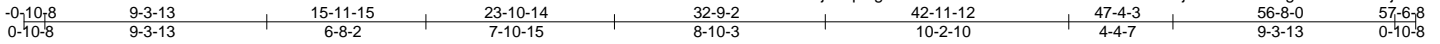
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339602
MASTER	A05	PIGGYBACK BASE	6	1		

Builders FirstSource, Sumter, SC - 29153,

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ID:zV7Fc4jHuqrogucND5EUzsWFO-KlzcRAIYBIPwEcN7XjoZsSzGH6JLgc0TxR6U0szjDK8



Scale: 1/8"=1'

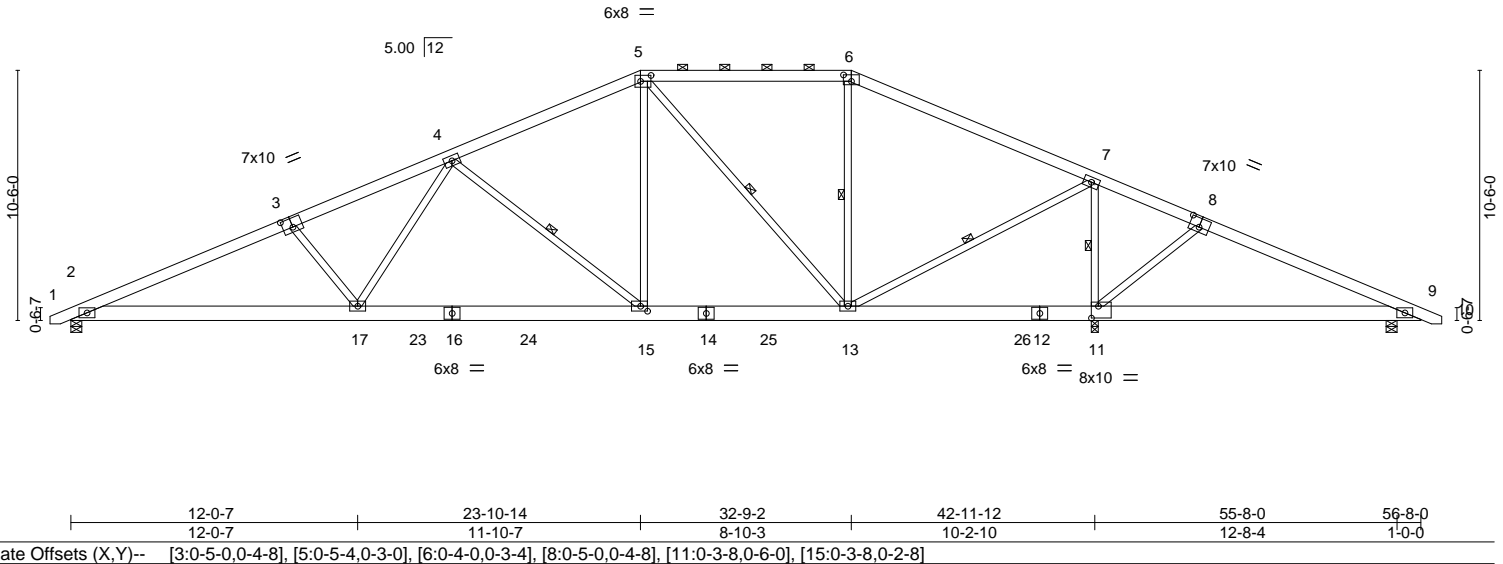


Plate Offsets (X,Y)--	[3:0-5-0,0-4-8], [5:0-5-4,0-3-0], [6:0-4-0,0-3-4], [8:0-5-0,0-4-8], [11:0-3-8,0-6-0], [15:0-3-8,0-2-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.47	Vert(LL) -0.15 15-17 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.29	Vert(CT) -0.30 15-17 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.80	Horz(CT) 0.05 11 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.21 17-19 >999 240	Weight: 433 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x8 SP DSS	2-0-0 oc purlins (6-0-0 max.): 5-6.
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied.
5-13: 2x4 SP No.2	WEBS 1 Row at midpt 4-15, 5-13, 6-13, 7-13, 7-11

REACTIONS. (lb/size) 2=1695/0-5-8, 11=2491/0-3-8, 9=426/0-5-8
 Max Horz 2=-308(LC 13)
 Max Uplift 2=-808(LC 12), 11=-949(LC 13), 9=-295(LC 13)
 Max Grav 2=1695(LC 1), 11=2491(LC 1), 9=515(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3451/2240, 3-4=-3180/2138, 4-5=-1969/1432, 5-6=-1185/1097, 6-7=-1406/1043,
 7-8=-218/426, 8-9=-224/299
 BOT CHORD 2-17=-1871/3130, 15-17=-1327/2463, 13-15=-652/1761, 11-13=-357/568
 WEBS 3-17=-457/564, 4-17=-414/800, 4-15=-977/886, 5-15=-437/979, 5-13=-939/517,
 7-13=-985/1739, 7-11=-1951/1487, 8-11=-359/426

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are 5x8 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=808, 11=949, 9=295.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20,2020

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TRENCO
 A MiTek Affiliate

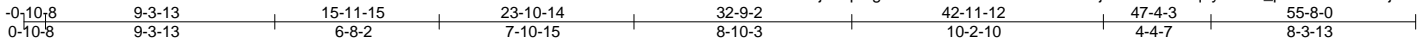
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339603
MASTER	A06	Piggyback Base	18	1		

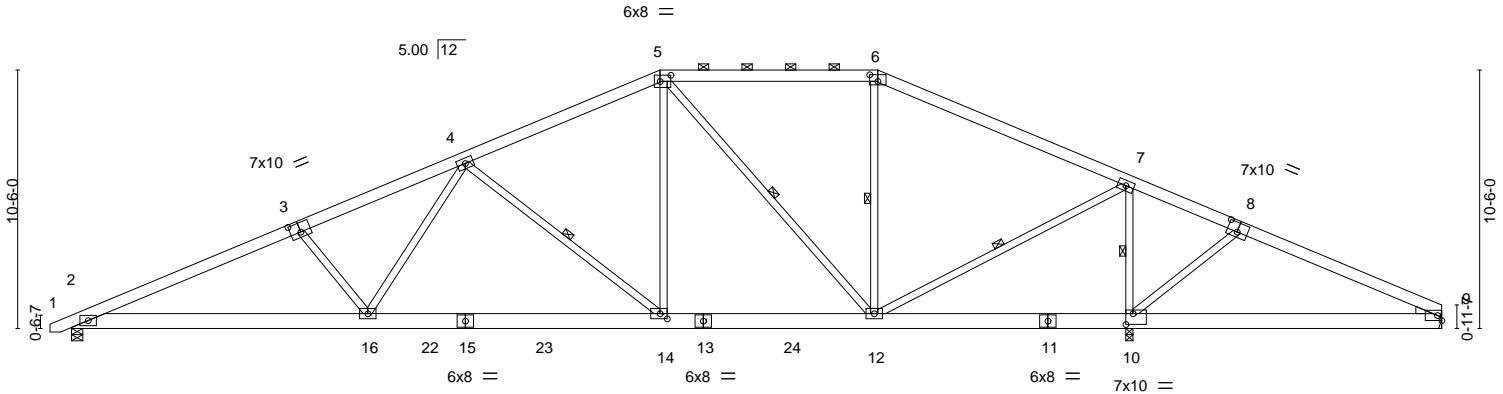
Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:26:31 2020 Page 1

ID:zV7Fc4jHuaqlrogucND5EiUzsWfo-Gh5NsrmjvfeTwXWe8q1yt2cnw_p8WRmPibb4IzjDK6



Scale = 1:93.6



12-0-7	23-10-14	32-9-2	42-11-12	55-8-0
12-0-7	11-10-7	8-10-3	10-2-10	12-8-4

Plate Offsets (X,Y)-- [3:0-5-0,0-4-8], [5:0-5-4,0-3-0], [6:0-4-0,0-3-4], [8:0-5-0,0-4-8], [10:0-3-8,0-5-4], [14:0-3-8,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.47	Vert(LL)	-0.15 14-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.30 14-16	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.80	Horz(CT)	0.05 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.21 16-18	>999	240	Weight: 426 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x8 SP DSS	2-0-0 oc purlins (6-0-0 max.): 5-6.
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied.
5-12: 2x4 SP No.2	WEBS 1 Row at midpt 4-14, 5-12, 6-12, 7-12, 7-10

REACTIONS. (lb/size) 2=1697/0-5-8, 10=2498/0-3-8, 9=297/Mechanical
 Max Horz 2=332(LC 12)
 Max Uplift 2=-807(LC 12), 10=-949(LC 13), 9=-216(LC 13)
 Max Grav 2=1697(LC 1), 10=2498(LC 1), 9=391(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3456/2245, 3-4=-3185/2143, 4-5=-1972/1435, 5-6=-1190/1098, 6-7=-1411/1045,
 7-8=-221/421, 8-9=-262/314
 BOT CHORD 2-16=-1926/3135, 14-16=-1381/2467, 12-14=-705/1764, 10-12=-375/474, 9-10=-253/217
 WEBS 3-16=-457/564, 4-16=-413/800, 4-14=-977/885, 5-14=-440/981, 5-12=-942/516,
 7-12=-961/1729, 7-10=-1931/1464, 8-10=-370/425

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 5x8 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=807, 10=949, 9=216.
- 10) 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.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20,2020

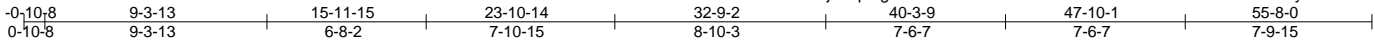
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339604
MASTER	A07	Piggyback Base	12	1		

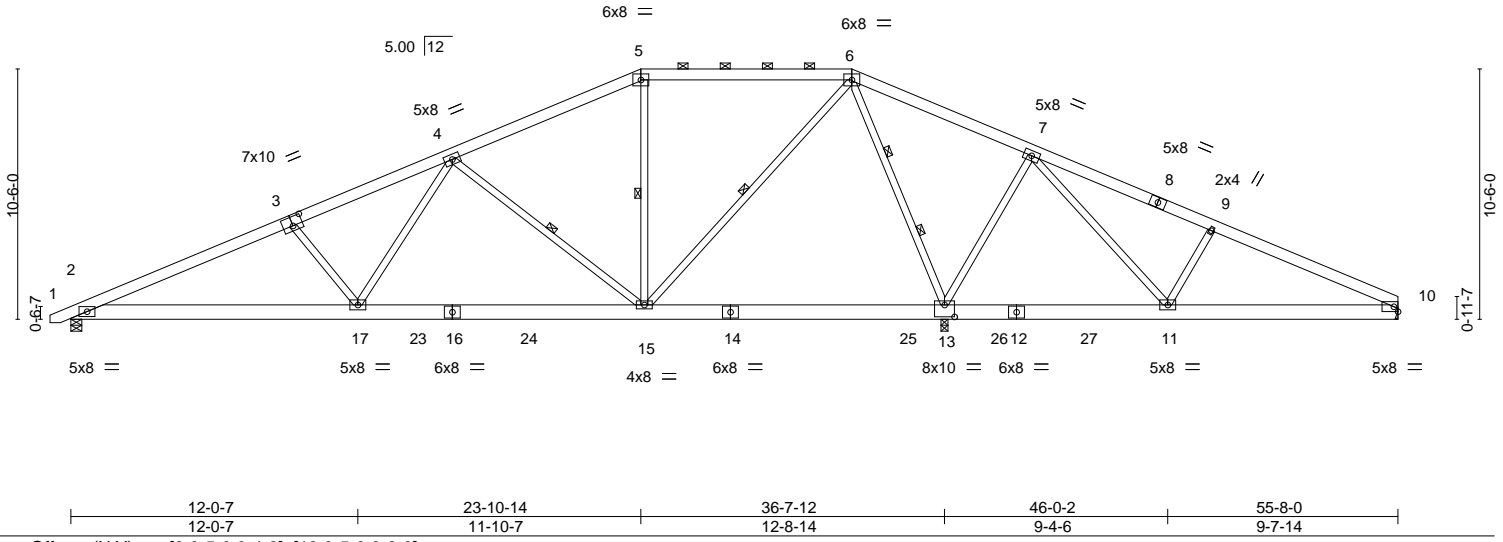
Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:26:32 2020 Page 1

ID:zV7Fc4jHuqrogucND5EIUzsWfo-ltfl3BnQUdNv546iCsMGU5boBKLhtyavdPK9cBzjDK5



Scale: 1/8"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.43	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.25	Vert(LL) -0.10 15-17 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.87	Vert(CT) -0.21 17-19 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.03 13 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.17 17-19 >999 240	Weight: 423 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x8 SP DSS	2-0-0 oc purlins (6-0-0 max.): 5-6.
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied.
6-15: 2x4 SP No.2	WEBS 1 Row at midpt 4-15, 5-15, 6-15
	2 Rows at 1/3 pts 6-13

REACTIONS. (lb/size) 2=1320/0-5-8, 13=2770/0-3-8, 10=403/Mechanical
 Max Horz 2=332(LC 12)
 Max Uplift 2=-674(LC 12), 13=-1011(LC 9), 10=-288(LC 13)
 Max Grav 2=1344(LC 23), 13=2833(LC 2), 10=508(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2546/1618, 3-4=-2274/1515, 4-5=-1037/790, 5-6=-886/834, 6-7=-340/945,
 7-9=-394/369, 9-10=-606/381
 BOT CHORD 2-17=-1348/2296, 15-17=-816/1624, 13-15=-229/435, 11-13=-483/533, 10-11=-224/488
 WEBS 3-17=-460/566, 4-17=-432/791, 4-15=-975/892, 6-15=-815/1383, 6-13=-1970/1319,
 7-13=-777/807, 7-11=-522/758, 9-11=-439/559

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=674, 13=1011, 10=288.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20, 2020

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339605
MASTER	A08	GABLE	4	1		

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ID:zV7Fc4jHuqIrogucND5EIUzsWfo-9SKuiDqIm893yXqHt_vz6jDOMXQi4UnLJNZpDWzjDK2



Scale: 1/8"=1'

Plate Offsets (X, Y)--	[5:0-5-0,0-4-8], [13:0-4-0,0-3-13], [18:0-4-0,0-3-13], [26:0-5-0,0-4-8], [36:0-0-0,0-3-10], [37:0-1-12,0-0-0], [37:0-5-0,0-1-2], [42:0-0-0,0-3-10], [43:0-5-0,0-1-2], [43:0-1-12,0-0-0]
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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 0.11	Vert(LL)	-0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.01	29	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 532 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 13-18.
BOT CHORD 2x8 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	WEBS 1 Row at midpt 15-44, 14-45, 12-46, 11-47, 16-43, 17-41, 19-40, 20-39

REACTIONS. All bearings 55-8-0.
 (lb) - Max Horz 2=316(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 44, 45, 46, 55, 43, 41, 31 except 47=-119(LC 12), 48=-119(LC 12), 49=-115(LC 12), 51=-115(LC 12), 52=-115(LC 12), 53=-117(LC 12), 54=-131(LC 12), 56=-312(LC 12), 39=-119(LC 13), 38=-120(LC 13), 37=-114(LC 13), 35=-115(LC 13), 34=-115(LC 13), 33=-118(LC 13), 32=-125(LC 13), 30=-287(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 44, 45, 46, 47, 48, 49, 51, 52, 53, 54, 55, 43, 41, 40, 39, 38, 37, 35, 34, 33, 32, 31, 29 except 56=443(LC 1), 30=351(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-373/97, 8-9=-94/264, 9-10=-118/304, 10-11=-143/375, 11-12=-168/444, 12-13=-170/450, 13-14=-164/456, 14-15=-164/456, 15-16=-164/456, 16-17=-164/456, 17-18=-164/456, 18-19=-170/450, 19-20=-168/444, 20-21=-143/375, 21-22=-118/304, 28-29=-294/101
 BOT CHORD 2-56=-98/326, 55-56=-98/326, 54-55=-101/328, 52-53=-101/328, 51-52=-101/328, 49-51=-101/328, 48-49=-101/328, 47-48=-101/328, 46-47=-101/328, 45-46=-101/328, 44-45=-101/328, 43-44=-101/328, 41-43=-101/328, 40-41=-101/328, 39-40=-101/328, 38-39=-101/328, 37-38=-101/328, 35-37=-101/328, 34-35=-101/328, 33-34=-101/328, 32-33=-101/328, 31-32=-98/324, 30-31=-98/324, 29-30=-98/324
 WEBS 3-56=-285/361, 28-30=-239/341

NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCdL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 4) Provide adequate drainage to prevent water ponding.
 5) All plates are 2x4 MT20 unless otherwise indicated.
 6) Gable requires continuous bottom chord bearing.
 7) Gable studs spaced at 2-0-0 oc.
 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



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818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	
MASTER	A08	GABLE	4	1		I40339605
						Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:26:35 2020 Page 2
ID:zV7Fc4jHuqlrogucND5EIUzsWfo-9SKuiDqIm893yXqHt_vz6jDOMXQi4UnLJNZpDWzjDK2

NOTES-

- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 44, 45, 46, 55, 43, 41, 31 except (jt=lb) 47=119, 48=119, 49=115, 51=115, 52=115, 53=117, 54=131, 56=312, 39=119, 38=120, 37=114, 35=115, 34=115, 33=118, 32=125, 30=287.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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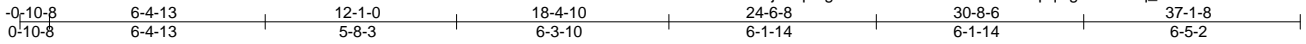
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339606
MASTER	A10	Half Hip Girder	2	2	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

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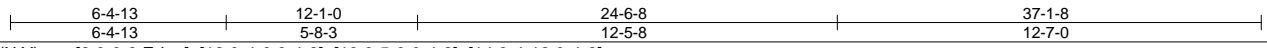
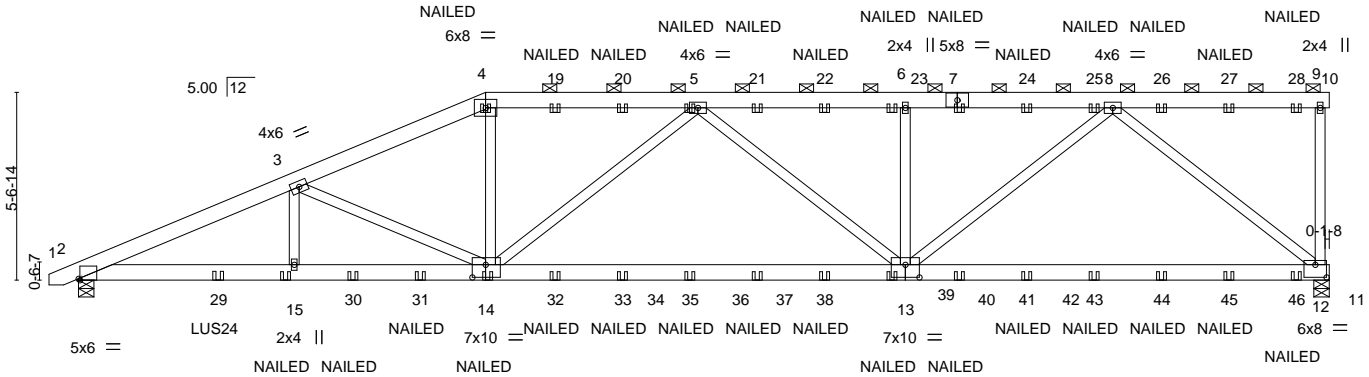


Plate Offsets (X,Y)--	[2:0-0-8,Edge], [12:0-4-0,0-4-8], [13:0-5-0,0-4-8], [14:0-4-12,0-4-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.52	Vert(LL) 0.35 13-14 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.84	Vert(CT) -0.34 12-13 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.88	Horz(CT) -0.11 12 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 513 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-10.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-10-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (lb/size) 12=2814/0-5-8, 2=2829/0-5-8
 Max Horz 2=367(LC 8)
 Max Uplift 12=-2971(LC 4), 2=-2375(LC 8)
 Max Grav 12=3048(LC 36), 2=2829(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-6280/5454, 3-4=-5131/4810, 4-5=-4691/4497, 5-6=-4945/4717, 6-8=-4945/4717, 9-12=-344/454
 BOT CHORD 2-15=-5267/5753, 14-15=-5267/5753, 13-14=-5256/5248, 12-13=-3029/2958
 WEBS 3-15=-402/621, 3-14=-1179/953, 4-14=-1161/1435, 5-14=-859/991, 5-13=-564/734, 6-13=-647/932, 8-13=-2195/2583, 8-12=-3762/3900

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=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=2971, 2=2375.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 4-1-12 from the left end to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 28 lb up at 36-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.



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Continued on page 2

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	I40339606
MASTER	A10	Half Hip Girder	2	2	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:26:39 2020 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-9=-60, 9-10=-20, 11-16=-20

Concentrated Loads (lb)

Vert: 4=-88(F) 7=-88(F) 14=-48(F) 15=-199(F) 5=-88(F) 19=-88(F) 20=-88(F) 21=-88(F) 22=-88(F) 23=-88(F) 24=-88(F) 25=-88(F) 26=-88(F) 27=-88(F) 28=-94(F)
 29=-273(F) 30=-199(F) 31=-199(F) 32=-48(F) 33=-48(F) 35=-48(F) 37=-48(F) 38=-48(F) 39=-48(F) 40=-48(F) 41=-48(F) 43=-48(F) 44=-48(F) 45=-48(F) 46=-48(F)

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818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339607
MASTER	A11	Half Hip	2	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:26:40 2020 Page 1
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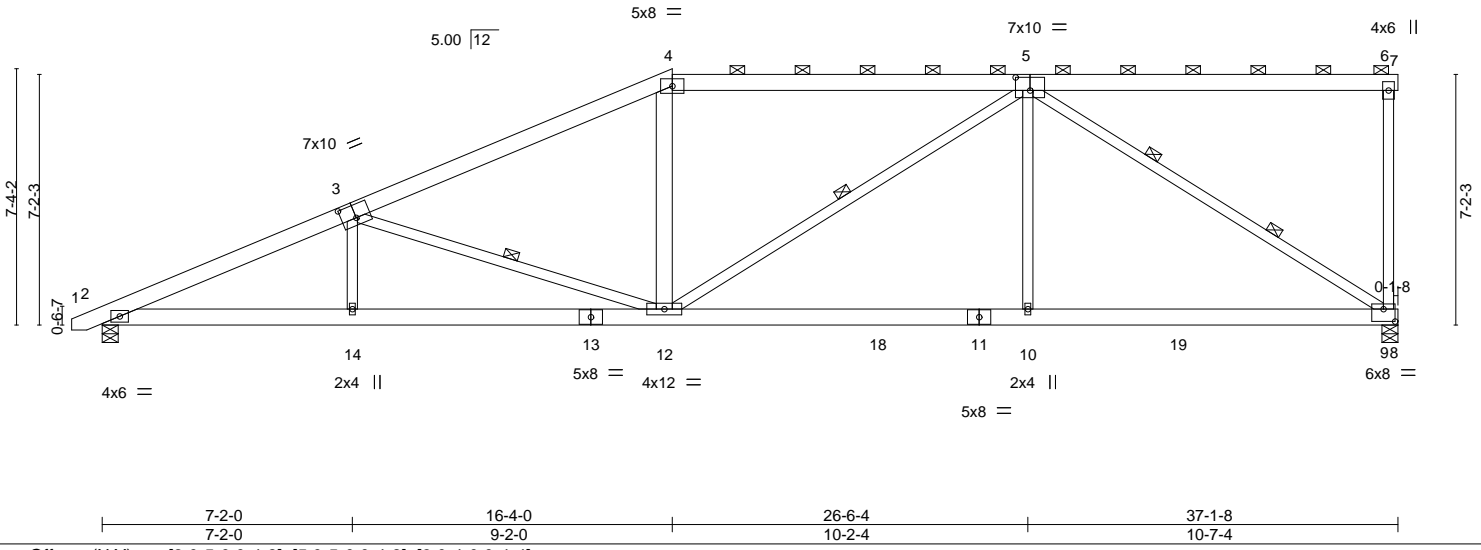


Plate Offsets (X,Y)--	[3:0-5-0,0-4-8], [5:0-5-0,0-4-8], [9:0-4-0,0-4-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.72	Vert(LL)	-0.12	10-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.59	Vert(CT)	-0.25	12-14	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.94	Horz(CT)	0.08	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.18	12-14	>999		
								Weight: 265 lb	FT = 20%

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

REACTIONS.	(lb/size)
9=1485/0-5-8, 2=1514/0-5-8	
Max Horz 2=481(LC 12)	
Max Uplift 9=-798(LC 8), 2=-654(LC 12)	
Max Grav 9=1486(LC 2), 2=1514(LC 1)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-3171/1909, 3-4=-2330/1402, 4-5=-2056/1420, 6-9=-264/265
BOT CHORD	2-14=-2152/2890, 12-14=-2152/2889, 10-12=-1129/1796, 9-10=-1130/1791
WEBS	3-14=0/306, 3-12=-872/779, 4-12=0/453, 5-12=-367/365, 5-10=0/533, 5-9=-2104/1328

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=798, 2=654.
 - 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.



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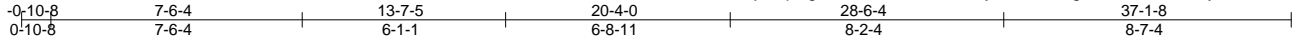
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339608
MASTER	A12	Half Hip	2	1		

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5x14 MT20HS =

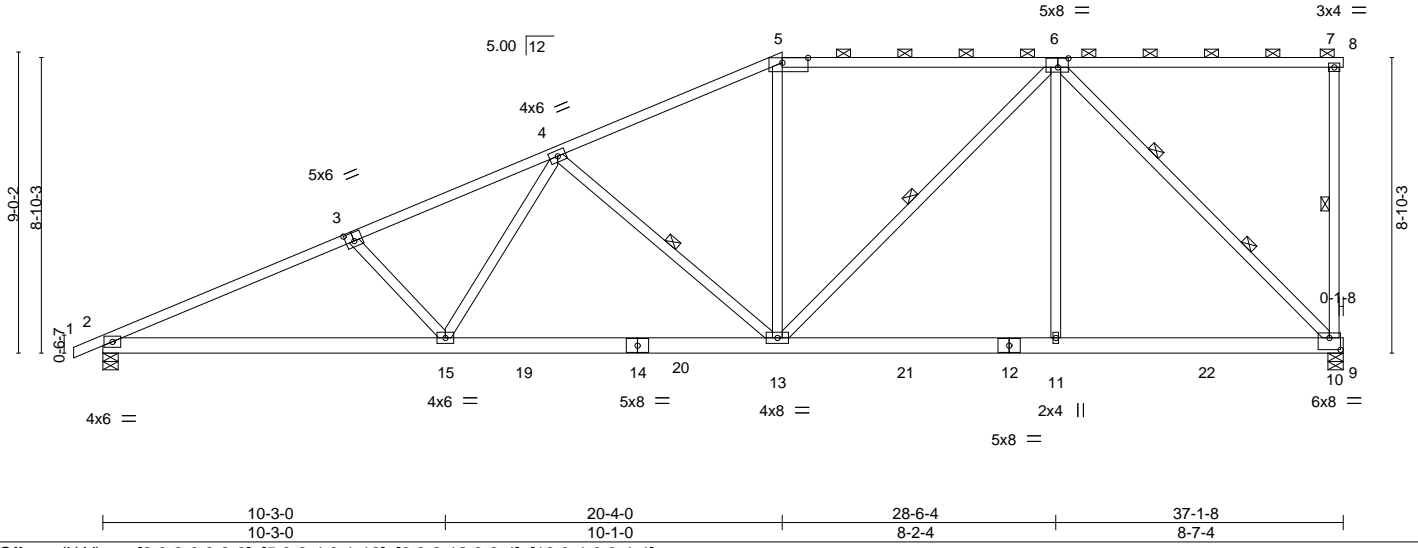


Plate Offsets (X,Y)--	[3:0-3-0,0-3-0], [5:0-9-4,0-1-12], [6:0-3-12,0-3-4], [10:0-4-0,0-4-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.97	Vert(LL)	-0.18	13-15	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.59	Vert(CT)	-0.34	13-15	>999	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.94	Horz(CT)	0.07	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.20	15	>999		
								Weight: 244 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.): 5-8.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 7-10, 4-13, 6-13 2 Rows at 1/3 pts 6-10

REACTIONS. (lb/size) 10=1484/0-5-8, 2=1527/0-5-8
 Max Horz 2=601(LC 12)
 Max Uplift 10=777(LC 8), 2=700(LC 12)
 Max Grav 10=1545(LC 2), 2=1527(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3023/1787, 3-4=-2749/1667, 4-5=-1840/1154, 5-6=-1643/1156
 BOT CHORD 2-15=-2143/2715, 13-15=-1683/2190, 11-13=-796/1250, 10-11=-797/1247
 WEBS 3-15=-374/485, 4-15=-291/599, 4-13=-759/708, 5-13=-6/364, 6-13=-506/625,
 6-11=0/461, 6-10=-1752/1112

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=777, 2=700.
 - 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.



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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339609
MASTER	A13	Hip	2	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:26:43 2020 Page 1

ID:zV7Fc4jHuqlrogucND5EIUzsWFO-w?pvNywKubAxwmSpLf2rRPYeumzNywnX9dVEU2zjDjw



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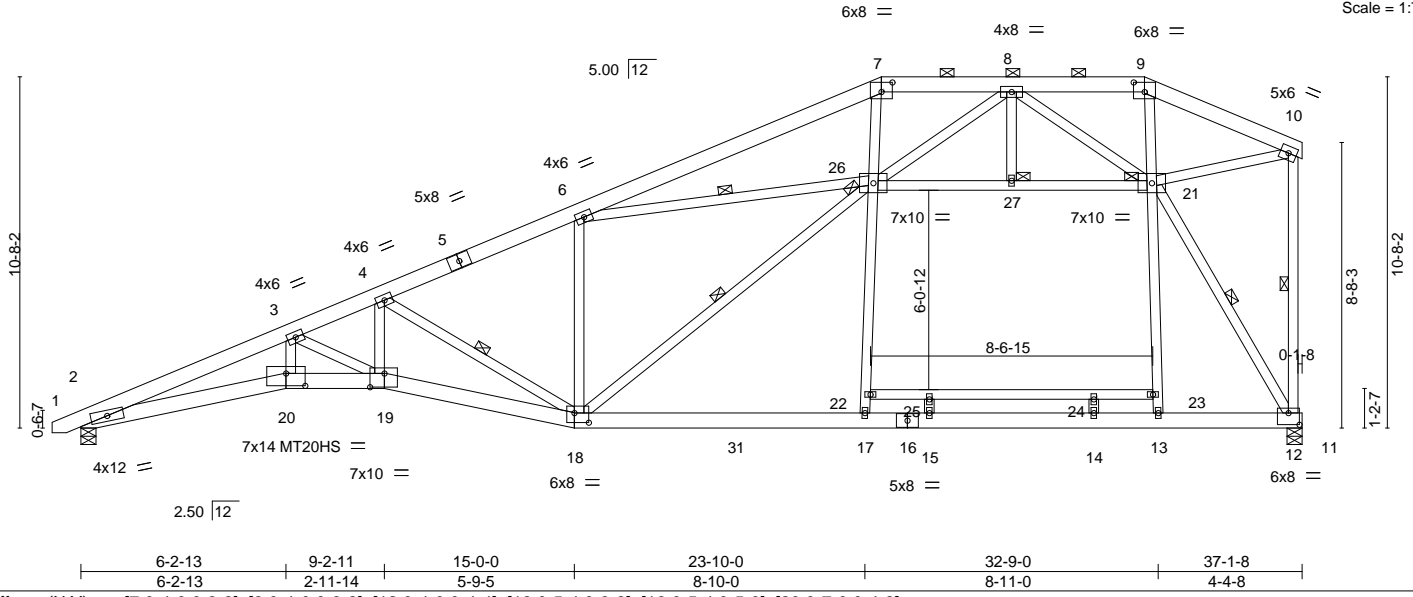


Plate Offsets (X,Y)--	[7:0-4-0,0-3-8], [9:0-4-0,0-3-8], [12:0-4-0,0-4-4], [18:0-5-4,0-3-8], [19:0-5-4,0-5-0], [20:0-7-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.53	Vert(LL)	-0.24	19	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.75	Vert(CT)	-0.51	19	>872	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.84	Horz(CT)	0.20	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.44	19	>999	240		
									Weight: 343 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-1-1 max.): 7-9.
BOT CHORD 2x6 SP No.2 *Except* 2-20,19-20: 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 22-23: 2x4 SP No.2	WEBS 1 Row at midpt 4-18, 10-12, 12-21, 6-26, 18-26
	JOINTS 1 Brace at Jt(s): 21, 26, 27

REACTIONS. (lb/size) 2=1560/0-5-8, 12=1633/0-5-8
 Max Horz 2=646(LC 12)
 Max Uplift 2=677(LC 12), 12=474(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-5588/3480, 3-4=-4231/2545, 4-6=-2475/1378, 6-7=-2285/1265, 7-8=-1969/1286,
 8-9=-259/416, 9-10=-350/492, 10-12=-176/269
 BOT CHORD 2-20=-3774/5185, 19-20=-3631/4985, 18-19=-2867/4082, 17-18=-585/1102,
 15-17=-583/1076, 14-15=-583/1076, 13-14=-583/1076, 12-13=-584/1099
 WEBS 3-20=-666/1004, 3-19=-1221/1002, 4-19=-1023/1535, 4-18=-2067/1513, 6-18=-477/577,
 17-22=0/458, 22-26=0/476, 7-26=-17/530, 9-21=-466/451, 21-23=0/439, 13-23=0/421,
 12-21=-2108/1116, 8-26=-811/1310, 8-21=-1622/1034, 10-21=-447/394, 6-26=-268/408,
 18-26=-1227/1501

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 200.0lb AC unit load placed on the bottom chord, 28-3-8 from left end, supported at two points, 5-0-0 apart.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 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=677, 12=474.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20,2020

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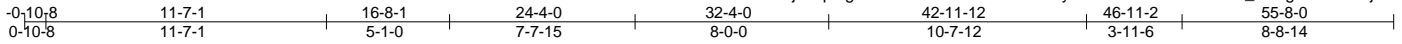
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339610
MASTER	A14	Hip	2	1		

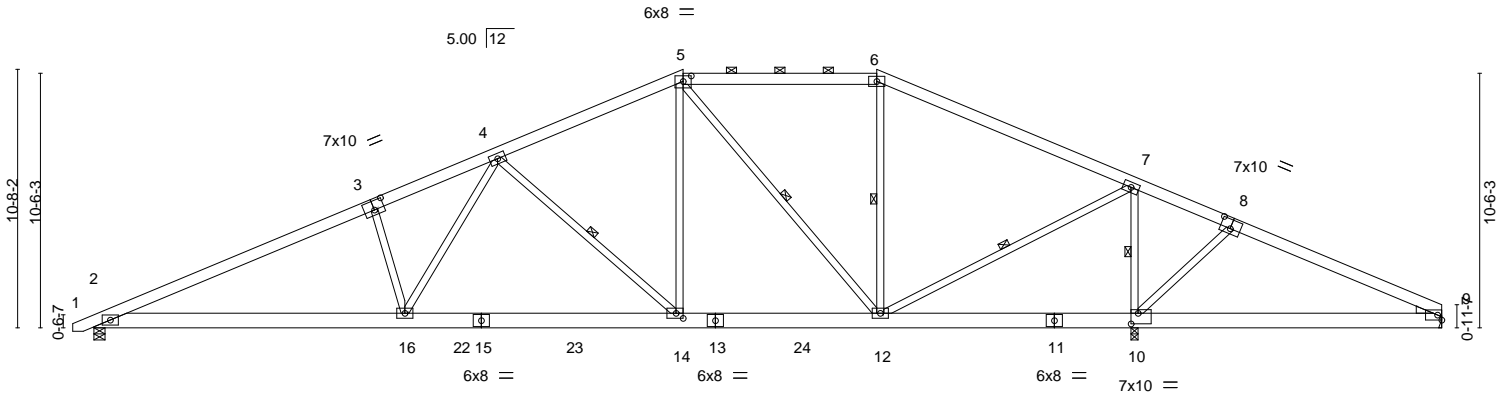
Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:26:44 2020 Page 1

ID:zV7Fc4jHuqrogucND5EIUzsWFO-OBNHblyfvloXw00vNZ4zd5o79P_hN9gOHEnoUzjDjv



Scale: 1/8"=1'



	12-10-2	24-4-0	32-4-0	42-11-12	55-8-0
	12-10-2	11-5-14	8-0-0	10-7-12	12-8-4
Plate Offsets (X, Y)--	[3:0-5-0,0-4-8],	[5:0-4-0,0-2-12],	[8:0-5-0,0-4-8],	[10:0-3-8,0-5-4],	[14:0-3-8,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.62	Vert(LL)	-0.14	14-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.34	Vert(CT)	-0.31	16-18	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.84	Horz(CT)	0.05	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.26	16-18	>999	240	Weight: 426 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x8 SP DSS	2-0-0 oc purlins (6-0-0 max.): 5-6.
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied.
5-12: 2x4 SP No.2	WEBS 1 Row at midpt 4-14, 5-12, 6-12, 7-12, 7-10
WEDGE	
Right: 2x4 SP No.3	

REACTIONS. (lb/size) 2=1701/0-5-8, 10=2482/0-3-8, 9=310/Mechanical
 Max Horz 2=334(LC 12)
 Max Uplift 2=-815(LC 12), 10=-944(LC 13), 9=-226(LC 13)
 Max Grav 2=1701(LC 1), 10=2482(LC 1), 9=402(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3354/2146, 3-4=-3180/2245, 4-5=-1954/1444, 5-6=-1213/1128, 6-7=-1434/1066,
 7-8=-196/397, 8-9=-268/308
 BOT CHORD 2-16=-1791/2997, 14-16=-1329/2409, 12-14=-697/1733, 10-12=-353/430
 WEBS 3-16=-502/619, 4-16=-610/942, 4-14=-951/851, 5-14=-450/971, 5-12=-907/488,
 7-12=-929/1708, 7-10=-1907/1442, 8-10=-346/397

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 5x8 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=815, 10=944, 9=226.
- 10) 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.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20, 2020

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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339611
MASTER	A15	Hip	2	1		

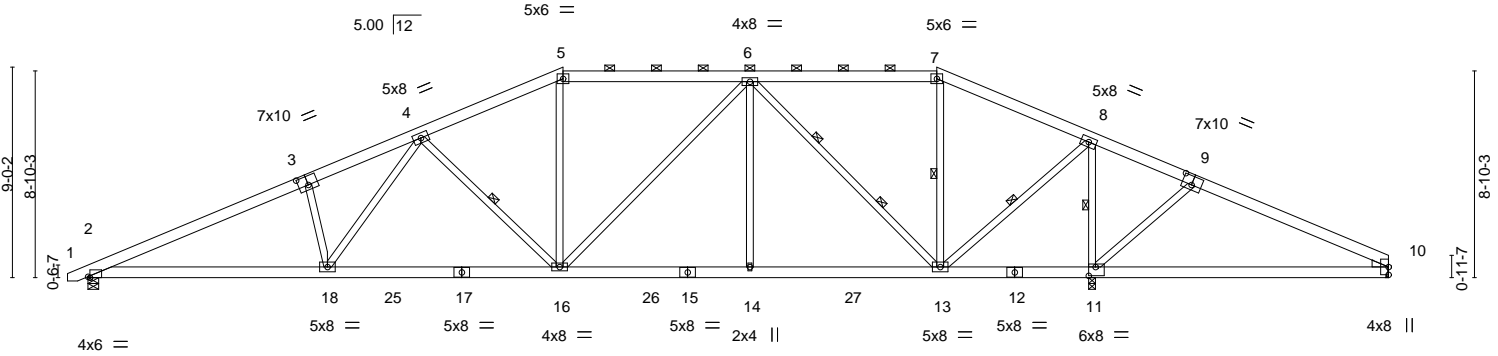
Builders FirstSource, Sumter, SC - 29153,

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ID:zV7Fc4jHuqrogucND5EIUzsWfo-KaV20_yCBWYWnEAO1ocY32A9Mz?X9HGzraju5NzjDJt

0-10-8	9-5-3	14-3-0	20-4-0	28-4-0	36-4-0	42-11-12	47-2-13	55-8-0
0-10-8	9-5-3	4-9-13	6-1-0	8-0-0	8-0-0	6-7-12	4-3-1	8-5-3

Scale = 1:98.6



10-3-0	20-4-0	28-4-0	36-4-0	42-11-12	55-8-0
10-3-0	10-1-0	8-0-0	8-0-0	6-7-12	12-8-4

Plate Offsets (X,Y)-- [2:0-1-0,Edge], [3:0-5-0,0-4-8], [9:0-5-0,0-4-8], [10:0-0-0,0-5-10], [11:0-3-8,0-4-8]

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 0.51	Vert(LL)	-0.18	16-18	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.72	Vert(CT)	-0.35	16-18	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.86	Horz(CT)	0.08	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.21	18-21	>999	Weight: 396 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (4-10-5 max.): 5-7.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
WEDGE	WEBS 1 Row at midpt 4-16, 7-13, 8-13, 8-11
Right: 2x4 SP No.3	2 Rows at 1/3 pts 6-13

REACTIONS. (lb/size) 2=1679/0-5-8, 11=2579/0-3-8, 10=235/Mechanical
 Max Horz 2=284(LC 12)
 Max Uplift 2=-761(LC 12), 11=-1074(LC 9), 10=-236(LC 13)
 Max Grav 2=1679(LC 1), 11=2579(LC 1), 10=328(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3398/2157, 3-4=-3298/2272, 4-5=-2273/1597, 5-6=-2054/1562, 6-7=-816/790,
 7-8=-938/752, 8-9=-259/625, 9-10=-193/480
 BOT CHORD 2-18=-1848/3076, 16-18=-1426/2539, 14-16=-775/1832, 13-14=-775/1832,
 11-13=-574/581, 10-11=-385/232
 WEBS 3-18=-439/549, 4-18=-540/793, 4-16=-719/669, 5-16=-176/496, 6-16=-338/412,
 6-14=0/437, 6-13=-1491/854, 8-13=-1014/1810, 8-11=-1963/1358, 9-11=-523/556

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=761, 11=1074, 10=236.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20,2020

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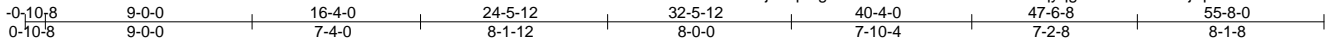
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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339612
MASTER	A16	HIP	2	1		

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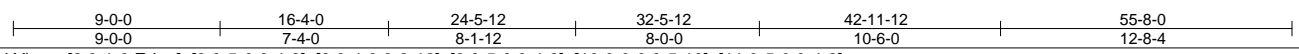
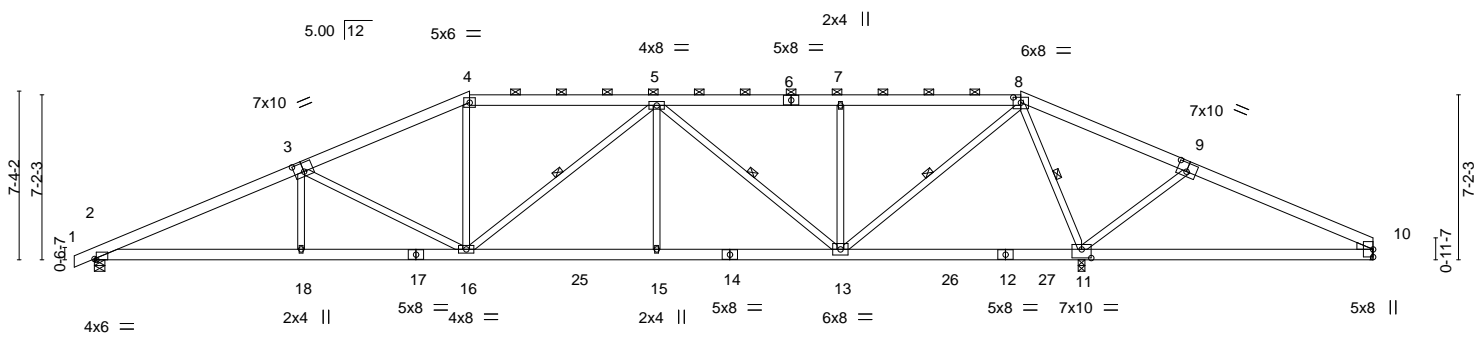


Plate Offsets (X,Y)-- [2:0-1-0,Edge], [3:0-5-0,0-4-8], [8:0-4-0,0-2-12], [9:0-5-0,0-4-8], [10:0-0-0,0-5-10], [11:0-5-0,0-4-8]

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 0.53	Vert(LL)	-0.15	15-16	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.67	Vert(CT)	-0.31	15-16	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.97	Horz(CT)	0.09	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.22	15-16	>999	Weight: 379 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (4-6-1 max.): 4-8.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
WEDGE	WEBS 1 Row at midpt 8-11, 8-13, 5-16, 5-13
Right: 2x4 SP No.3	

REACTIONS. (lb/size) 2=1643/0-5-8, 11=2794/0-3-8, 10=69/Mechanical
 Max Horz 2=240(LC 12)
 Max Uplift 2=-704(LC 12), 11=-1311(LC 9), 10=-191(LC 13)
 Max Grav 2=1643(LC 1), 11=2794(LC 1), 10=149(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3312/2076, 3-4=-2577/1691, 4-5=-2298/1649, 5-7=-1461/1085, 7-8=-1463/1088,
 8-9=-549/1059, 9-10=-339/793
 BOT CHORD 2-18=-1783/3001, 16-18=-1784/3000, 15-16=-1133/2284, 13-15=-1133/2284,
 11-13=-143/322, 10-11=-675/372
 WEBS 3-18=0/321, 3-16=-785/694, 4-16=-201/582, 8-11=-2261/1526, 9-11=-628/704,
 8-13=-1226/2080, 5-16=-267/135, 7-13=-511/482, 5-15=0/375, 5-13=-1088/689

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=704, 11=1311, 10=191.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20,2020

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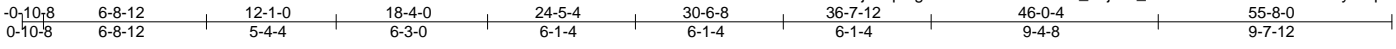
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339613
MASTER	A17	Half Hip Girder	1	2		

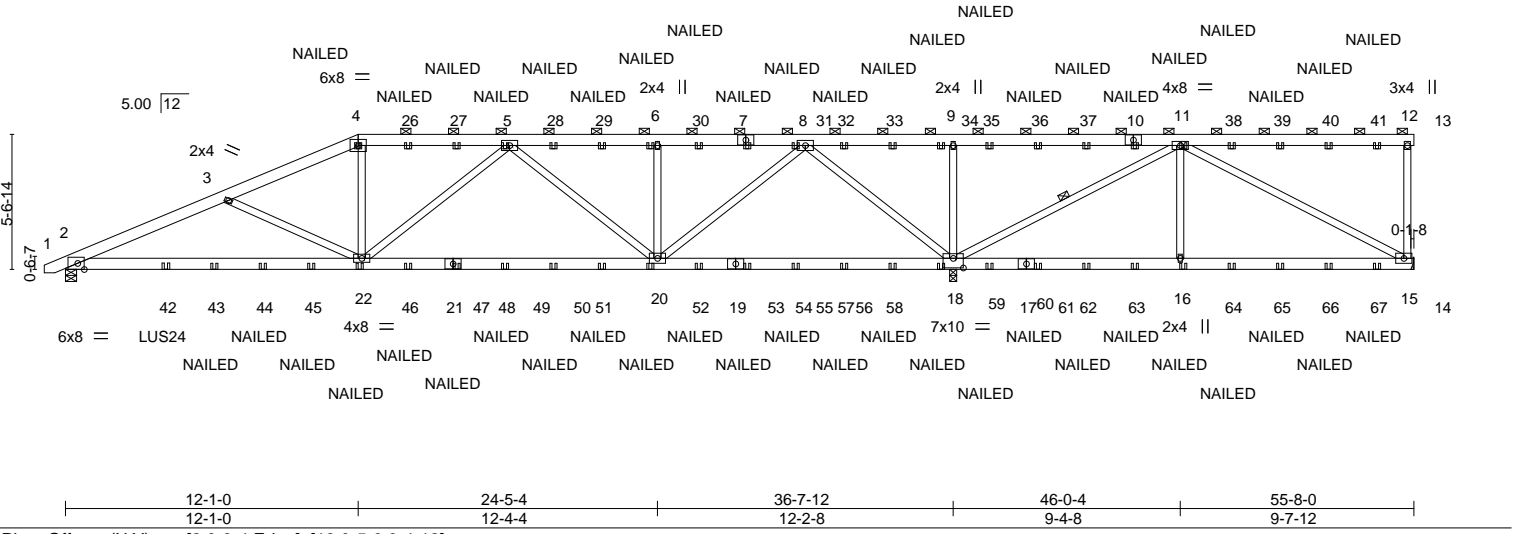
Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:26:54 2020 Page 1

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Scale: 1/8"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.70	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.84	Vert(LL) 0.45 22-25 >978 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.94	Vert(CT) -0.42 22-25 >999 240		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Horz(CT) -0.07 15 n/a n/a		
				Weight: 768 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-13.
BOT CHORD 2x6 SP No.2 *Except* 2-21, 14-17: 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 11-18

REACTIONS. (lb/size) 15=613/Mechanical, 2=2421/0-5-8, 18=5311/0-3-8
 Max Horz 2=367(LC 27)
 Max Uplift 15=733(LC 5), 2=1982(LC 8), 18=5607(LC 4)
 Max Grav 15=704(LC 35), 2=2421(LC 1), 18=5657(LC 36)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-4822/4179, 3-4=-4191/3810, 4-5=-3820/3581, 5-6=-2903/2754, 6-8=-2903/2754,
 8-9=-2610/2634, 9-11=-2610/2634, 12-15=-415/604
 BOT CHORD 2-22=-4138/4470, 20-22=-3790/3744, 18-20=-593/514, 16-18=-267/306, 15-16=-267/306
 WEBS 3-22=-756/691, 4-22=-825/1139, 5-22=-333/357, 5-20=-1274/1358, 6-20=-678/978,
 8-20=-2824/3144, 8-18=-4079/4174, 9-18=-907/1278, 11-18=-3186/3252, 11-16=0/686,
 11-15=-303/244

- 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=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed;
 MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are 5x8 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 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) 15=733, 2=1982, 18=5607.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 4-1-12 from the left end to connect truss(es) to back face of bottom chord.
- On full pages where hanger is in contact with lumber.



February 20, 2020

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

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339613
MASTER	A17	Half Hip Girder	1	2	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:26:55 2020 Page 2
ID:zV7Fc4jHuqlrogucND5EIUzsWFO-ZJYRu33r3HhEMcM72BGfwx2gAb2smLCIwUPsvMzjDJK

NOTES-

15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-12=-60, 12-13=-20, 14-23=-20

Concentrated Loads (lb)

Vert: 4=-88(B) 7=-88(B) 21=-48(B) 22=-48(B) 5=-88(B) 20=-48(B) 6=-88(B) 16=-48(B) 11=-88(B) 10=-88(B) 26=-88(B) 27=-88(B) 28=-88(B) 29=-88(B) 30=-88(B) 31=-88(B) 32=-88(B) 33=-88(B) 34=-88(B) 35=-88(B) 36=-88(B) 37=-88(B) 38=-88(B) 39=-88(B) 40=-88(B) 41=-88(B) 42=-273(B) 43=-199(B) 44=-199(B) 45=-199(B) 46=-48(B) 48=-48(B) 50=-48(B) 51=-48(B) 52=-48(B) 53=-48(B) 55=-48(B) 57=-48(B) 58=-48(B) 59=-48(B) 60=-48(B) 61=-48(B) 62=-48(B) 63=-48(B) 64=-48(B) 65=-48(B) 66=-48(B) 67=-48(B)

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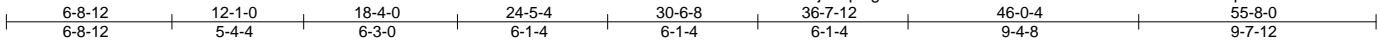


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Edenton, NC 27932

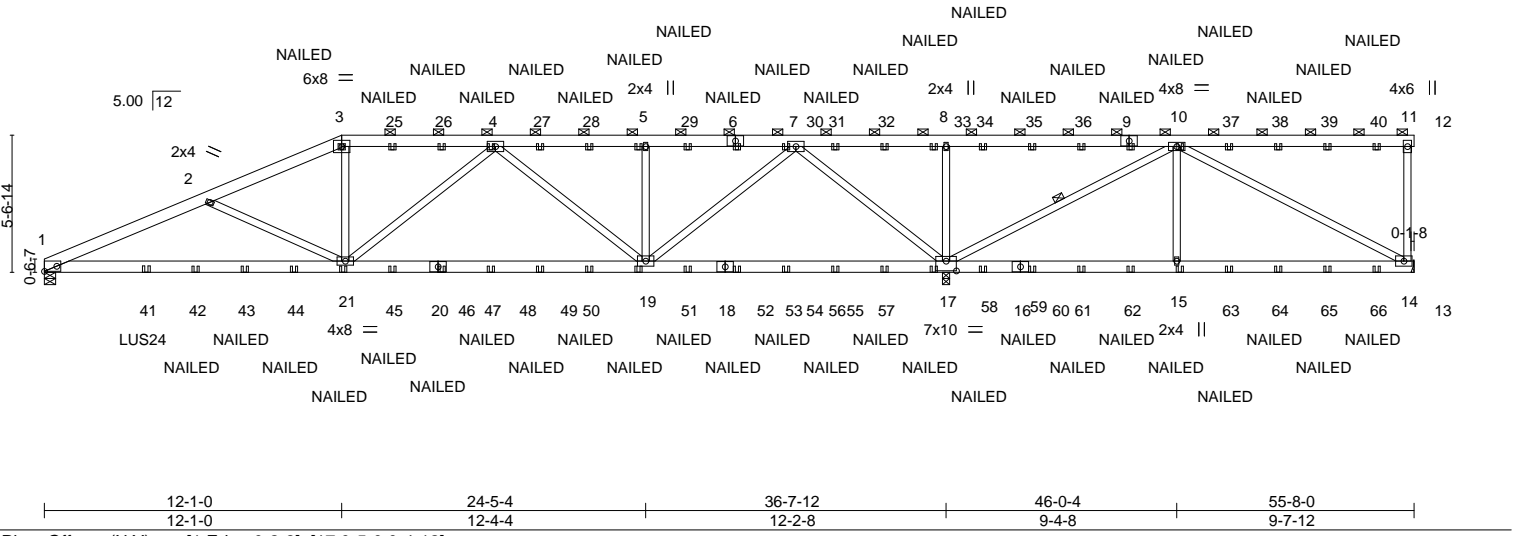
Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339614
MASTER	A18	HALF HIP GIRDER	1	2		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:27:02 2020 Page 1
 ID:zV7Fc4jHuqfrogucND5EIUzsWfo-sfT5MS8EPRZEhhPTz9uliQqsPQQSuV0KX4bkfSzjDjd



Scale = 1:93.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.70	Vert(LL)	0.45	21-24	>978	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.84	Vert(CT)	-0.42	21-24	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.94	Horz(CT)	-0.07	14	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 764 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-12.
BOT CHORD 2x6 SP No.2 *Except* 1-20,13-16: 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 10-17

REACTIONS. (lb/size) 1=2381/0-5-8, 14=613/Mechanical, 17=5312/0-3-8
 Max Horz 1=379(LC 7)
 Max Uplift 1=1964(LC 8), 14=729(LC 5), 17=5607(LC 5)
 Max Grav 1=2381(LC 1), 14=703(LC 35), 17=5640(LC 36)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-4824/4218, 2-3=-4193/3851, 3-4=-3822/3619, 4-5=-2968/2827, 5-7=-2968/2827,
 7-8=-2679/2571, 8-10=-2679/2571, 11-14=-414/602
 BOT CHORD 1-21=-4048/4473, 19-21=-3871/3665, 17-19=-682/540, 15-17=-380/385, 14-15=-380/385
 WEBS 2-21=-757/693, 3-21=-842/1140, 4-21=-311/349, 4-19=-1275/1354, 5-19=-677/978,
 7-19=-2826/3124, 7-17=-4059/4176, 8-17=-908/1280, 10-17=-3180/3249, 10-15=-1/686,
 10-14=-293/238

- 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=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed;
 MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are 5x8 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 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) 1=1964, 14=729, 17=5607.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 4-1-12 from the left end to connect truss(es) to back face of bottom chord.



February 20,2020

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 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/
MASTER	A18	HALF HIP GIRDER	1	2	140339614 Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:27:02 2020 Page 2
ID:zV7Fc4jHuqlogucND5EIUzsWfo-sfT5MS8EPRZEhhPTz9uliQqsPQQSuV0KX4bkfSzjDjd

NOTES-

15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-11=-60, 11-12=-20, 13-22=-20

Concentrated Loads (lb)

Vert: 3=-88(B) 6=-88(B) 20=-48(B) 21=-48(B) 4=-88(B) 19=-48(B) 5=-88(B) 15=-48(B) 10=-88(B) 9=-88(B) 25=-88(B) 26=-88(B) 27=-88(B) 28=-88(B) 29=-88(B) 30=-88(B) 31=-88(B) 32=-88(B) 33=-88(B) 34=-88(B) 35=-88(B) 36=-88(B) 37=-88(B) 38=-88(B) 39=-88(B) 40=-88(B) 41=-273(B) 42=-199(B) 43=-199(B) 44=-199(B) 45=-48(B) 47=-48(B) 49=-48(B) 50=-48(B) 51=-48(B) 52=-48(B) 54=-48(B) 56=-48(B) 57=-48(B) 58=-48(B) 59=-48(B) 60=-48(B) 61=-48(B) 62=-48(B) 63=-48(B) 64=-48(B) 65=-48(B) 66=-48(B)

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339615
MASTER	A19	PIGGYBACK BASE SUPPO	2	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:27:04 2020 Page 1

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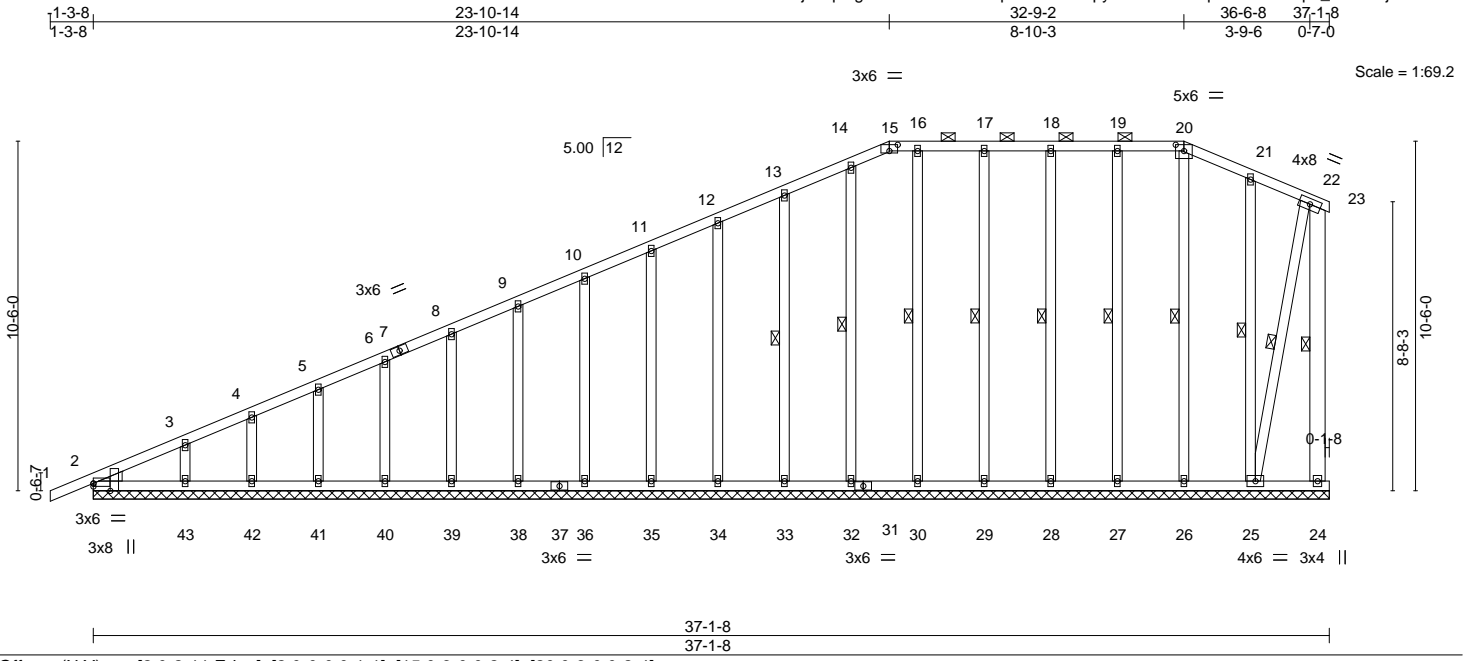


Plate Offsets (X,Y)--	[2:0-2-11,Edge], [2:0-0-0,0-1-1], [15:0-3-0,0-2-4], [20:0-3-0,0-2-4]
-----------------------	--

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 0.33	Vert(LL)	0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.24	Vert(CT)	-0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	-0.02	23	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 324 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 15-20.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
WEBS 2x6 SP No.2 *Except*	WEBS 1 Row at midpt
OTHERS 2x4 SP No.3	
WEDGE 2x4 SP No.3	
Left: 2x4 SP No.2	

REACTIONS. All bearings 37-1-8.
 (lb) - Max Horz 2=633(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 26, 27, 28, 30, 32 except
 23=-285(LC 12), 24=-284(LC 11), 29=-104(LC 8), 33=-128(LC 12), 34=-113(LC 12), 35=-115(LC 12), 36=-115(LC 12), 38=-115(LC 12), 39=-115(LC 12), 40=-115(LC 12), 41=-117(LC 12), 42=-106(LC 12), 43=-178(LC 12), 25=-133(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 24, 2, 26, 27, 28, 29, 30, 32, 33, 34, 35, 36, 38, 39, 40, 41, 42, 43, 25 except 23=343(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-796/412, 3-4=-676/361, 4-5=-611/340, 5-6=-541/315, 6-8=-472/291, 8-9=-402/267, 9-10=-333/243, 10-11=-277/219, 11-12=-253/226, 12-13=-256/294, 13-14=-285/370, 14-15=-286/404, 15-16=-276/402, 16-17=-276/402, 17-18=-276/402, 18-19=-276/402, 19-20=-276/402, 20-21=-290/402, 21-22=-285/350, 22-24=-219/253
 WEBS 3-43=-160/252

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.



February 20, 2020

Continued on page 2

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

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ENGINEERING BY TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/
MASTER	A19	PIGGYBACK BASE SUPPO	2	1	

I40339615

Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:27:05 2020 Page 2
 ID:zV7Fc4jHuqlrogucND5EIUzsWfo-HE8D?UB7iMxpZ872eHR?K2SSNdca523mD2qOGmzjDJa

NOTES-

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 26, 27, 28, 30, 32 except (jt=lb) 23=285, 24=284, 29=104, 33=128, 34=113, 35=115, 36=115, 38=115, 39=115, 40=115, 41=117, 42=106, 43=178, 25=133.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339616
MASTER	A20	PIGGYBACK BASE	10	1		

Builders FirstSource, Sumter, SC - 29153,

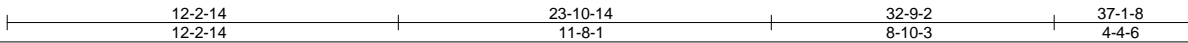
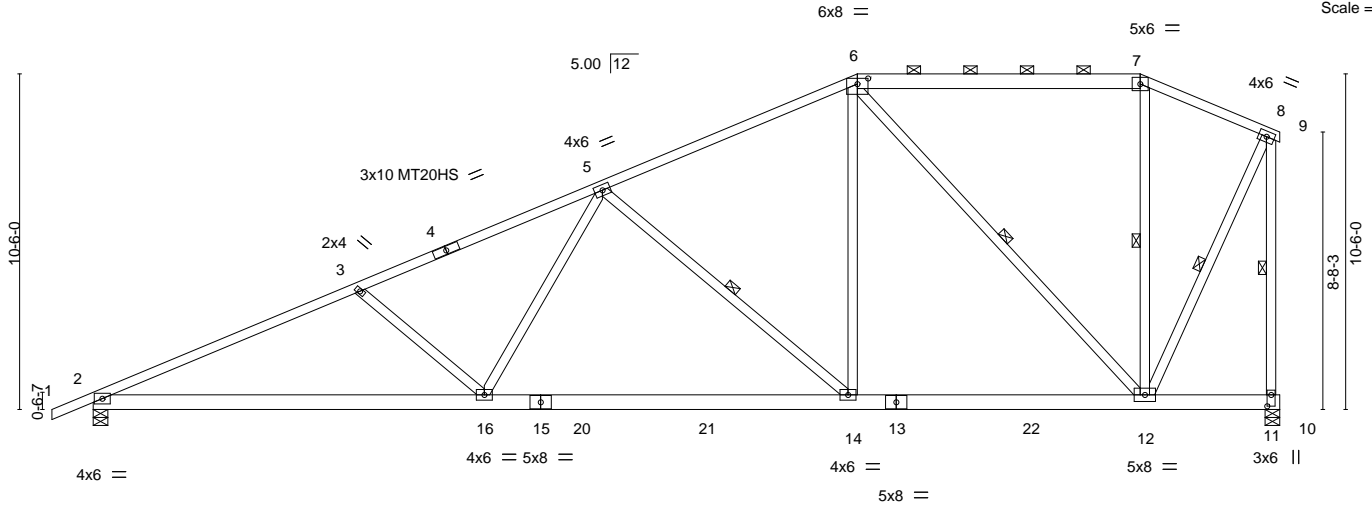
8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:27:06 2020 Page 1

ID:zV7Fc4jHuqIrogucND5EIUzsWfQ-IQicCpCITg3gAlIEC?zEsF?X41q9qkvSiZyoDzJZJ

Job Reference (optional)



Scale = 1:72.1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.72	Vert(LL) -0.23 14-16 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.73	Vert(CT) -0.40 14-16 >999 240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.96	Horz(CT) 0.07 11 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.22 16-19 >999 240	Weight: 262 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 6-7: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 6-12: 2x4 SP No.2	WEBS 1 Row at midpt 5-14, 6-12, 7-12, 8-11, 8-12

REACTIONS. (lb/size) 2=1553/0-5-8, 11=1484/0-5-8
 Max Horz 2=653(LC 12)
 Max Uplift 2=-753(LC 12), 11=-646(LC 8)
 Max Grav 2=1553(LC 1), 11=1485(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2968/1800, 3-5=-2595/1571, 5-6=-1524/991, 6-7=-552/491, 7-8=-624/452, 8-11=-1469/1017
 BOT CHORD 2-16=-2138/2662, 14-16=-1539/2005, 12-14=-881/1321
 WEBS 3-16=-480/609, 5-16=-303/709, 5-14=-948/862, 6-14=-439/994, 6-12=-1169/791, 7-12=-260/251, 8-12=-815/1286

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=753, 11=646.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20, 2020

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

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

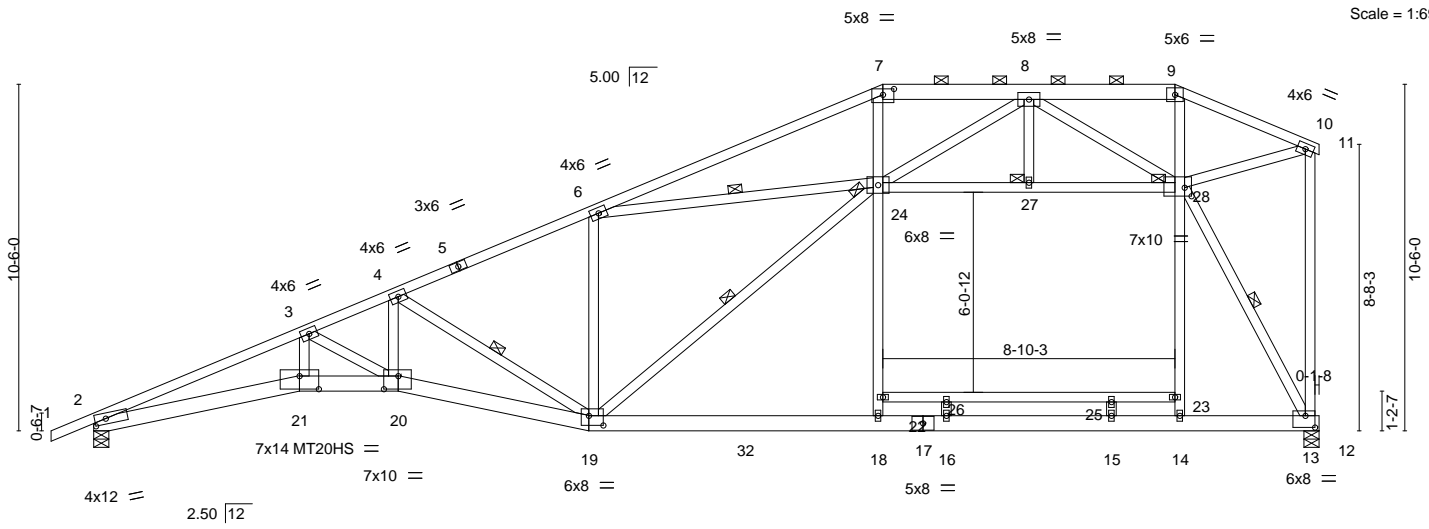
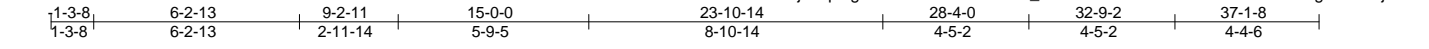
TRENCO ENGINEERING BY A MiTek Affiliate
 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339617
MASTER	A21	PIGGYBACK BASE	17	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:27:07 2020 Page 1

ID:zV7Fc4jHuqIrogucND5EiUzsWfO-DcG_Q9CNEzCXoSHRIiUTPTY11R7AZIa3gMJVKfzjDJY



Scale = 1:69.8

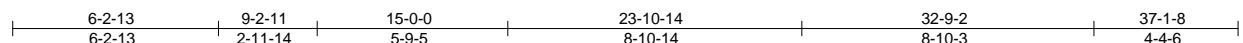


Plate Offsets (X,Y)--	[2:0-4-0,0-2-0], [7:0-4-0,0-2-2], [13:0-3-8,0-4-4], [19:0-5-4,0-3-8], [20:0-5-4,0-4-12], [21:0-7-0,0-4-12], [28:0-2-8,0-3-1]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.90	Vert(LL) -0.29 20 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.93	Vert(CT) -0.61 20 >730 240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.98	Horz(CT) 0.22 13 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.51 20 >860 240		
				Weight: 318 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 7-9: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-0-0 max.): 7-9.
BOT CHORD 2x6 SP No.2 *Except* 2-21,20-21: 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 22-23: 2x4 SP No.2	WEBS 1 Row at midpt 4-19, 6-24, 13-28, 19-24
	JOINTS 1 Brace at Jt(s): 24, 27, 28

REACTIONS. (lb/size) 2=1599/0-5-8, 13=1637/0-5-8
 Max Horz 2=653(LC 12)
 Max Uplift 2=-705(LC 12), 13=-494(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-5246/3253, 3-4=-4124/2487, 4-6=-2450/1353, 6-7=-2277/1273, 7-8=-1991/1290,
 8-9=-375/651, 9-10=-499/726, 10-13=-255/442
 BOT CHORD 2-21=-3558/4835, 20-21=-3449/4689, 19-20=-2799/3968, 18-19=-616/1134,
 16-18=-605/1117, 15-16=-605/1117, 14-15=-605/1117, 13-14=-611/1131
 WEBS 3-21=-513/765, 3-20=-1021/881, 4-20=-1014/1511, 4-19=-2000/1479, 6-19=-444/542,
 18-22=0/452, 22-24=0/472, 7-24=-31/542, 14-23=0/443, 23-28=0/460, 9-28=-548/495,
 24-27=-281/156, 27-28=-281/156, 8-24=-821/1345, 8-28=-1777/1150, 6-24=-220/360,
 10-28=-685/544, 13-28=-2297/1232, 19-24=-1165/1422

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 200.0lb AC unit load placed on the bottom chord, 28-4-0 from left end, supported at two points, 5-0-0 apart.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 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=705, 13=494.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20,2020

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

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

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339618
MASTER	A22	PIGGYBACK BASE	4	1		

Builders FirstSource, Sumter, SC - 29153,

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ID:zV7Fc4jHuqrogucND5EIUzsWfo-9?OkqrEdmbSF1mRpt7WxUud5?Ep81gNM8focPYzjDJW

-1-3-8	6-2-13	9-2-11	15-0-0	23-10-14	32-9-2	42-11-12	47-4-3	56-8-0	57-11-8
1-3-8	6-2-13	2-11-14	5-9-5	8-10-14	8-10-3	10-2-10	4-4-7	9-3-13	1-3-8

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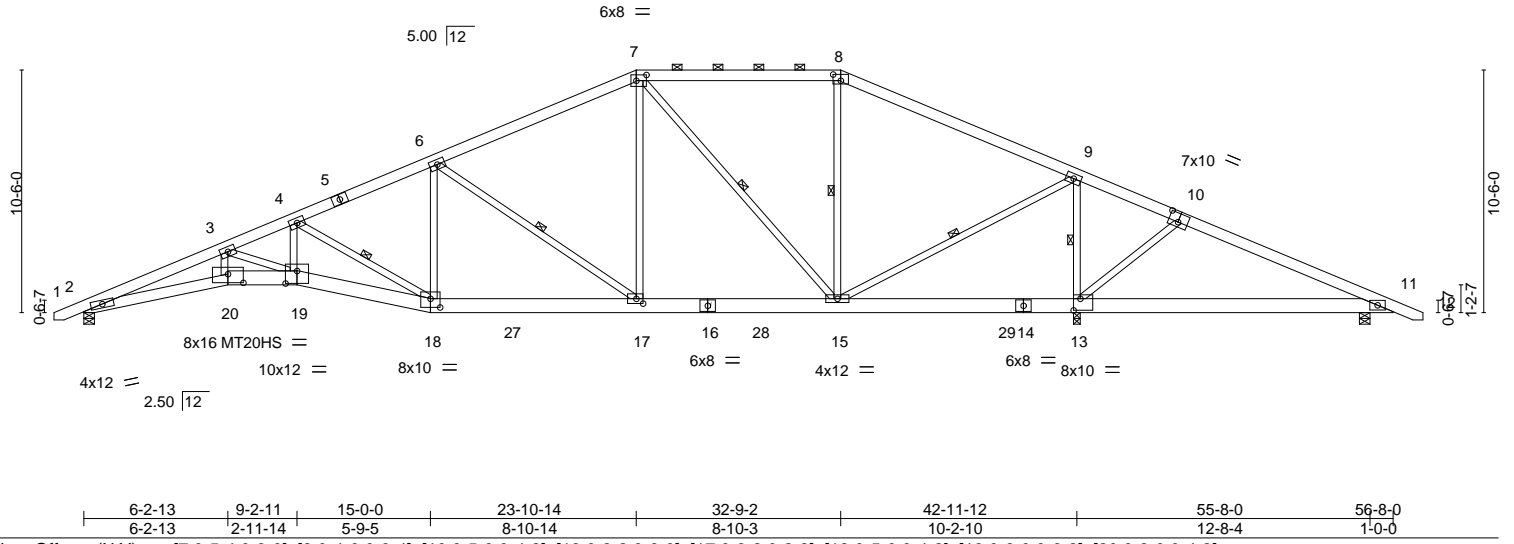


Plate Offsets (X,Y)--	[7:0-5-4,0-3-0], [8:0-4-0,0-3-4], [10:0-5-0,0-4-8], [13:0-3-8,0-6-0], [17:0-3-8,0-2-8], [18:0-5-0,0-4-8], [19:0-6-0,0-6-8], [20:0-8-0,0-4-8]
-----------------------	--

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 0.55	Vert(LL)	-0.24	19	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.84	Vert(CT)	-0.49	19	>999	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.90	Horz(CT)	0.17	13	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.40	19	>999		
								Weight: 442 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x8 SP DSS *Except* 2-20: 2x6 SP No.1	2-0-0 oc purlins (6-0-0 max.): 7-8.
WEBS 2x4 SP No.3 *Except* 7-15: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
	WEBS 1 Row at midpt 4-18, 6-17, 7-15, 8-15, 9-15, 9-13

REACTIONS. (lb/size) 2=1627/0-5-8, 13=2903/0-3-8, 11=132/0-5-8
 Max Horz 2=313(LC 16)
 Max Uplift 2=-779(LC 12), 13=-1045(LC 8), 11=-271(LC 13)
 Max Grav 2=1627(LC 1), 13=2903(LC 1), 11=343(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-5725/3576, 3-4=-4438/2836, 4-6=-2609/1794, 6-7=-1711/1280, 7-8=-881/905,
 8-9=-1074/836, 9-10=-684/1167, 10-11=-540/983
 BOT CHORD 2-20=-3187/5311, 19-20=-3175/5307, 18-19=-2461/4275, 17-18=-1246/2364,
 15-17=-509/1513, 13-15=-1020/1021, 11-13=-864/691
 WEBS 3-20=-473/925, 3-19=-1309/892, 4-19=-859/1561, 4-18=-2147/1371, 6-18=-178/563,
 6-17=-1080/913, 7-17=-423/921, 7-15=-1016/611, 8-15=-252/281, 9-15=-1256/2167,
 9-13=-2307/1713, 10-13=-392/444

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 5x8 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 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=779, 13=1045, 11=271.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20,2020

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

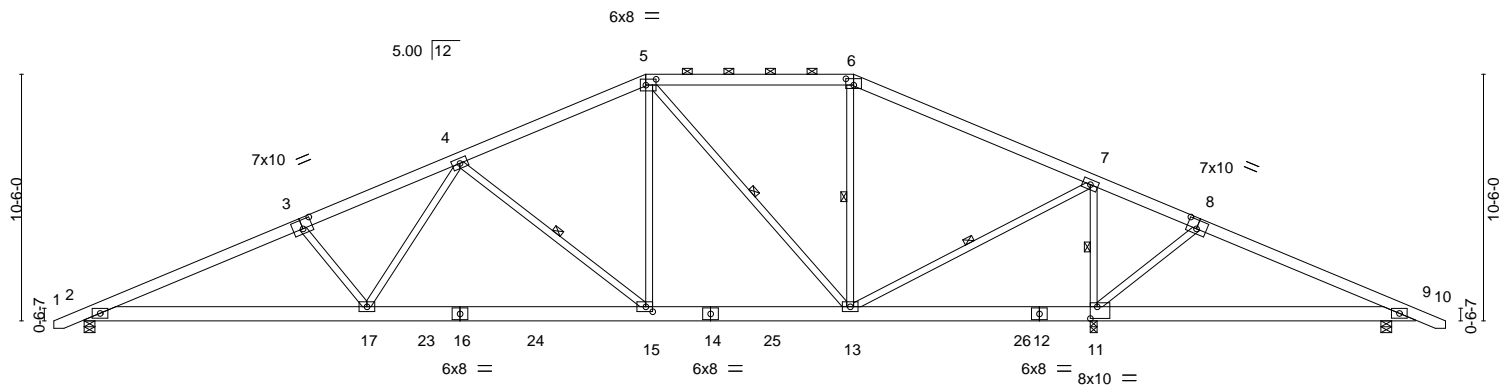
Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339619
MASTER	A23	PIGGYBACK BASE	3	1		
Builders FirstSource, Sumter, SC - 29153,						Job Reference (optional)

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ID:zV7Fc4jHuqIrogucND5EIUsWFO-dBy62BFGXua6fw0?Rq1A15AHyel_m9BVMJX9x_zjDJV

-1-3-8	9-3-13	15-11-15	23-10-14	32-9-2	42-11-12	47-4-3	56-8-0	57-11-8
1-3-8	9-3-13	6-8-2	7-10-15	8-10-3	10-2-10	4-4-7	9-3-13	1-3-8

Scale = 1:98.1



	12-0-7	23-10-14	32-9-2	42-11-12	55-8-0	56-8-0
	12-0-7	11-10-7	8-10-3	10-2-10	12-8-4	1-0-0
Plate Offsets (X, Y)--	[3:0-5-0,0-4-8], [5:0-5-4,0-3-0], [6:0-4-0,0-3-4], [8:0-5-0,0-4-8], [11:0-3-8,0-6-0], [15:0-3-8,0-2-8]					

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.47	Vert(LL)	-0.15 15-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	-0.30 15-17	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.80	Horz(CT)	0.05 11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.21 17-19	>999	240	Weight: 435 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x8 SP DSS	2-0-0 oc purlins (6-0-0 max.): 5-6.
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied.
5-13: 2x4 SP No.2	WEBS 1 Row at midpt 4-15, 5-13, 6-13, 7-13, 7-11

REACTIONS. (lb/size) 2=1719/0-5-8, 11=2496/0-3-8, 9=448/0-5-8
 Max Horz 2=-313(LC 13)
 Max Uplift 2=-828(LC 12), 11=-951(LC 13), 9=-313(LC 13)
 Max Grav 2=1719(LC 1), 11=2496(LC 1), 9=536(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3441/2225, 3-4=-3170/2125, 4-5=-1964/1426, 5-6=-1178/1091, 6-7=-1399/1037,
 7-8=-249/445, 8-9=-203/305
 BOT CHORD 2-17=-1845/3121, 15-17=-1308/2456, 13-15=-635/1756, 11-13=-362/616, 9-11=-246/303
 WEBS 3-17=-456/563, 4-17=-411/797, 4-15=-976/884, 5-15=-436/979, 5-13=-939/520,
 7-13=-1003/1748, 7-11=-1962/1506, 8-11=-354/422

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are 5x8 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=828, 11=951, 9=313.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



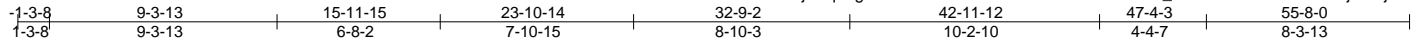
February 20,2020

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339620
MASTER	A24	PIGGYBACK BASE	9	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:27:11 2020 Page 1



Scale = 1:94.3

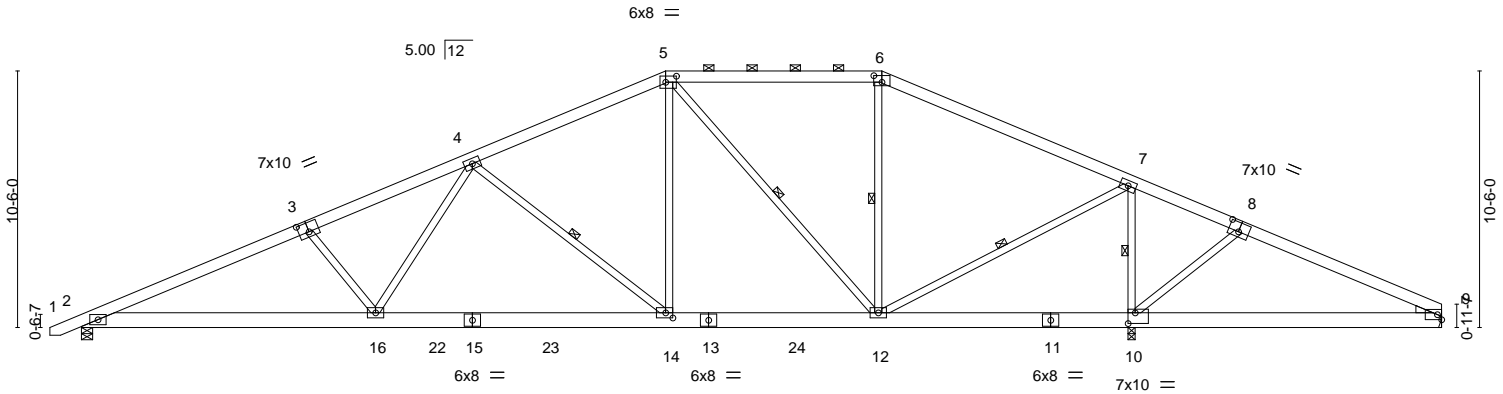


Plate Offsets (X, Y)--	[3:0-5-0,0-4-8], [5:0-5-4,0-3-0], [6:0-4-0,0-3-4], [8:0-5-0,0-4-8], [10:0-3-8,0-5-4], [14:0-3-8,0-2-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.47	Vert(LL)	-0.15 14-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	-0.30 14-16	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.80	Horz(CT)	0.05 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.21 16-18	>999	240	Weight: 427 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x8 SP DSS	2-0-0 oc purlins (6-0-0 max.): 5-6.
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied.
5-12: 2x4 SP No.2	WEBS 1 Row at midpt 4-14, 5-12, 6-12, 7-12, 7-10
WEDGE	
Right: 2x4 SP No.3	

REACTIONS. (lb/size) 2=1723/0-5-8, 10=2497/0-3-8, 9=298/Mechanical
 Max Horz 2=342(LC 12)
 Max Uplift 2=-828(LC 12), 10=-948(LC 13), 9=-216(LC 13)
 Max Grav 2=1723(LC 1), 10=2497(LC 1), 9=391(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3451/2240, 3-4=-3181/2138, 4-5=-1971/1434, 5-6=-1190/1098, 6-7=-1411/1044,
 7-8=-221/420, 8-9=-262/314
 BOT CHORD 2-16=-1921/3130, 14-16=-1379/2465, 12-14=-704/1763, 10-12=-374/473, 9-10=-252/216
 WEBS 3-16=-456/562, 4-16=-410/797, 4-14=-975/883, 5-14=-439/980, 5-12=-942/515,
 7-12=-959/1728, 7-10=-1930/1463, 8-10=-370/425

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 5x8 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=828, 10=948, 9=216.
- 10) 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.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20,2020

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ENGINEERING BY
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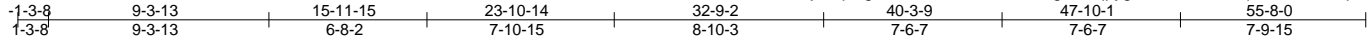
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339621
MASTER	A25	PIGGYBACK BASE	6	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:27:13 2020 Page 1

ID:zV7Fc4jHuqlrogucND5EiUzsWfo-2mdFgDH8qpygWNka6zbfknoqsLKzVlx3HmpYJzjDJS



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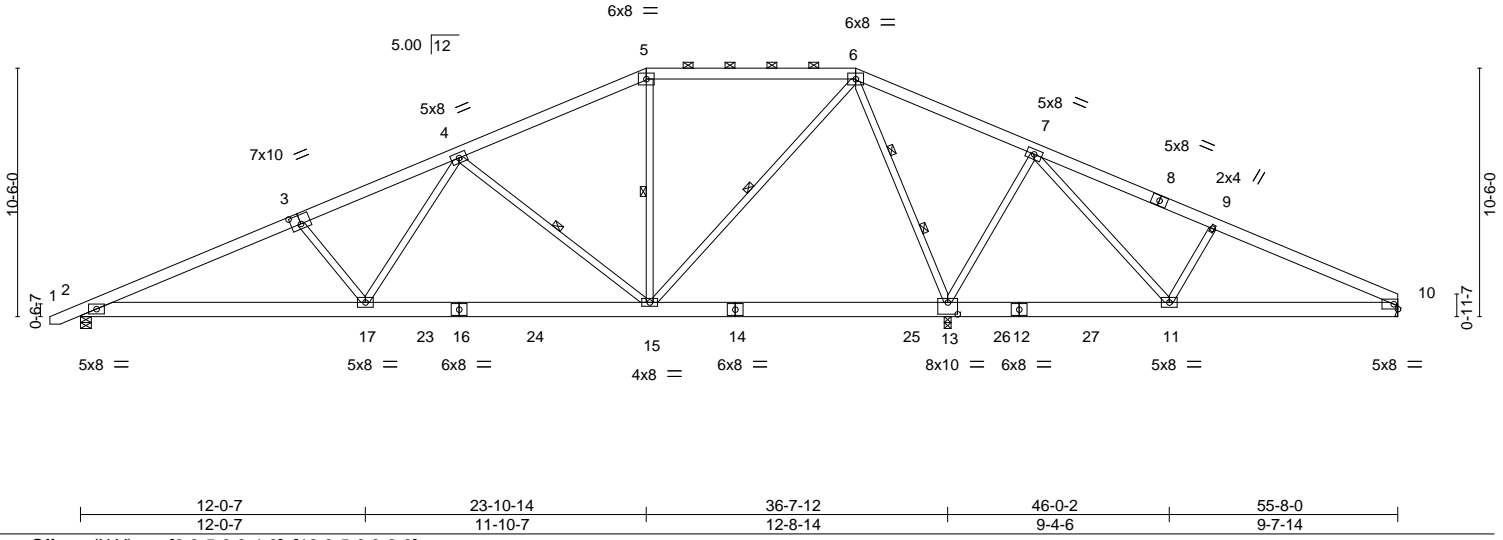


Plate Offsets (X,Y)--	[3:0-5-0,0-4-8], [13:0-5-0,0-6-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.43	Vert(LL) -0.10 15-17 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.24	Vert(CT) -0.20 17-19 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.87	Horz(CT) 0.03 13 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.16 17-19 >999 240	Weight: 424 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x8 SP DSS	2-0-0 oc purlins (6-0-0 max.): 5-6.
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied.
6-15: 2x4 SP No.2	WEBS 1 Row at midpt 4-15, 5-15, 6-15
	2 Rows at 1/3 pts 6-13

REACTIONS. (lb/size) 2=1346/0-5-8, 13=2769/0-3-8, 10=403/Mechanical
 Max Horz 2=342(LC 12)
 Max Uplift 2=-695(LC 12), 13=-1010(LC 9), 10=-288(LC 13)
 Max Grav 2=1370(LC 23), 13=2832(LC 2), 10=508(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2542/1613, 3-4=-2270/1511, 4-5=-1037/790, 5-6=-885/834, 6-7=-338/944,
 7-9=-394/369, 9-10=-606/381
 BOT CHORD 2-17=-1343/2292, 15-17=-814/1623, 13-15=-229/435, 11-13=-482/532, 10-11=-225/488
 WEBS 3-17=-459/565, 4-17=-428/788, 4-15=-973/890, 6-15=-814/1382, 6-13=-1969/1317,
 7-13=-777/807, 7-11=-522/758, 9-11=-439/559

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 7) 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=695, 13=1010, 10=288.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20, 2020

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818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339622
MASTER	A26	GABLE	2	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:27:15 2020 Page 1

ID:zV7Fc4jHuqlrogucND5EIUzsWfo_9l75uJOMRCOIhuzD0dLk9tDHF36RZhEWbFwdBzJDJQ



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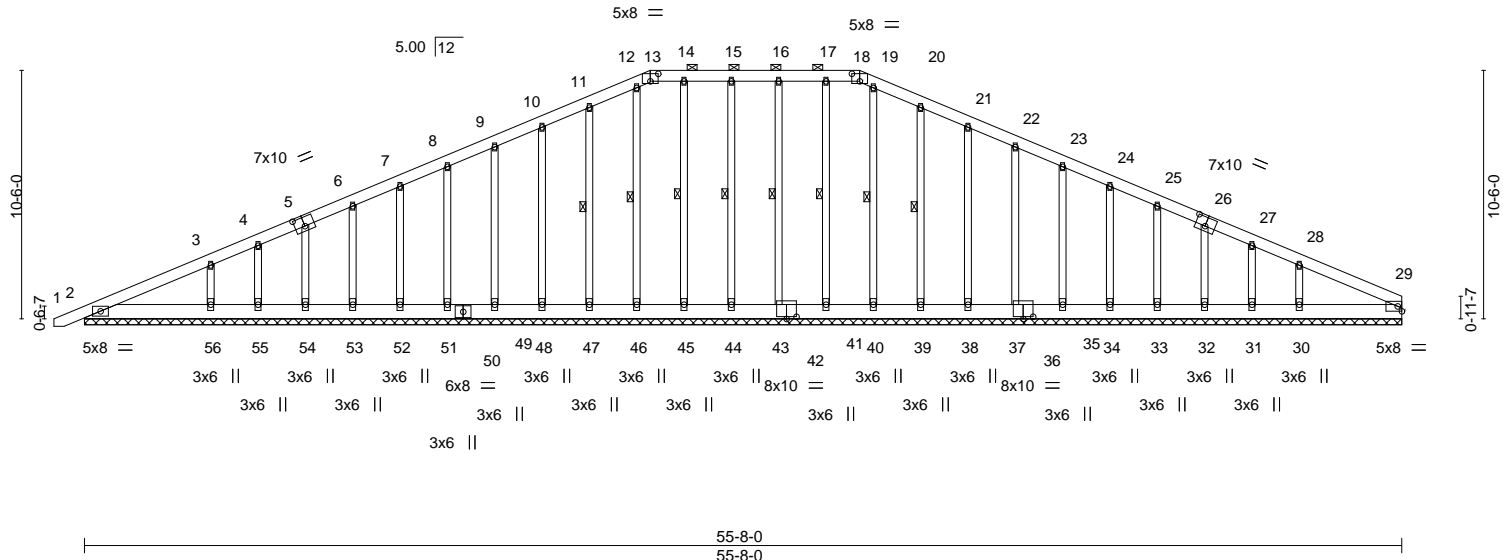


Plate Offsets (X,Y)--	[5:0-5-0,0-4-8], [13:0-4-0,0-3-13], [18:0-4-0,0-3-13], [26:0-5-0,0-4-8], [36:0-0-0,0-3-10], [37:0-1-12,0-0-0], [37:0-5-0,0-1-2], [42:0-0-0,0-3-10], [43:0-5-0,0-1-2], [43:0-1-12,0-0-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.11	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.01	29	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 533 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 13-18.
BOT CHORD 2x8 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	WEBS 1 Row at midpt 15-44, 14-45, 12-46, 11-47, 16-43, 17-41, 19-40, 20-39

REACTIONS. All bearings 55-8-0.
 (lb) - Max Horz 2=326(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 44, 45, 46, 55, 43, 41, 31
 except 47=-119(LC 12), 48=-119(LC 12), 49=-115(LC 12), 51=-115(LC 12),
 52=-115(LC 12), 53=-117(LC 12), 54=-129(LC 12), 56=-302(LC 12), 39=-119(LC
 13), 38=-120(LC 13), 37=-114(LC 13), 35=-115(LC 13), 34=-115(LC 13),
 33=-118(LC 13), 32=-125(LC 13), 30=-287(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 44, 45, 46, 47, 48, 49, 51, 52,
 53, 54, 55, 43, 41, 40, 39, 38, 37, 35, 34, 33, 32, 31, 29 except 2=254(LC
 1), 56=432(LC 1), 30=351(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-373/97, 8-9=-94/264, 9-10=-118/304, 10-11=-143/375, 11-12=-168/444,
 12-13=-170/450, 13-14=-164/456, 14-15=-164/456, 15-16=-164/456, 16-17=-164/456,
 17-18=-164/456, 18-19=-170/450, 19-20=-168/444, 20-21=-143/375, 21-22=-118/304,
 28-29=-294/101
 BOT CHORD 2-56=-98/326, 55-56=-98/326, 54-55=-98/326, 53-54=-101/328, 52-53=-101/328,
 51-52=-101/328, 49-51=-101/328, 48-49=-101/328, 47-48=-101/328, 46-47=-101/328,
 45-46=-101/328, 44-45=-101/328, 43-44=-101/328, 41-43=-101/328, 40-41=-101/328,
 39-40=-101/328, 38-39=-101/328, 37-38=-101/328, 35-37=-101/328, 34-35=-101/328,
 33-34=-101/328, 32-33=-101/328, 31-32=-98/324, 30-31=-98/324, 29-30=-98/324
 WEBS 3-56=-281/357, 28-30=-239/341

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are 2x4 MT20 unless otherwise indicated.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Gable studs spaced at 2-0-0 oc.
- Continued on page 2
 This truss was designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



February 20, 2020

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 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	
MASTER	A26	GABLE	2	1		I40339622
						Job Reference (optional)

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:27:16 2020 Page 2
 ID:zV7Fc4jHuaqlrogucND5EIUzsWfo-SLJOIEJ06kKFNrT9n58aGMPO13PLA0wOIF_U9ezjDJP

NOTES-

- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 44, 45, 46, 55, 43, 41, 31 except (jt=lb) 47=119, 48=119, 49=115, 51=115, 52=115, 53=117, 54=129, 56=302, 39=119, 38=120, 37=114, 35=115, 34=115, 33=118, 32=125, 30=287.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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818 Soundside Road
 Edenton, NC 27932

Job MASTER	Truss A27	Truss Type Half Hip Girder	Qty 1	Ply 2	A&G/Cedar/ Job Reference (optional)	140339623
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Builders FirstSource, Sumter, SC - 29153, 8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:27:19 2020 Page 1
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Scale = 1:69.6

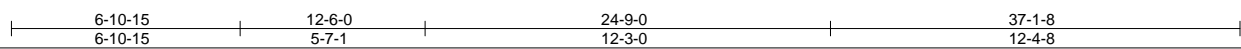
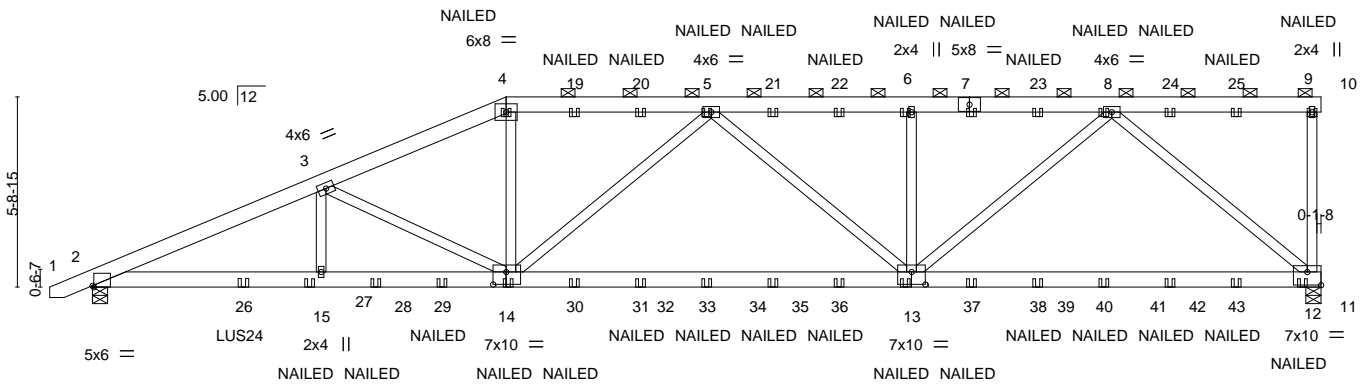


Plate Offsets (X, Y)-- [2:0-0-8,Edge], [12:Edge,0-4-12], [13:0-5-0,0-4-8], [14:0-4-12,0-4-8]

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 0.48	Vert(LL)	0.36	13-14	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.80	Vert(CT)	-0.32	12-13	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.86	Horz(CT)	-0.11	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 518 lb	FT = 20%

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

REACTIONS. (lb/size) 12=2821/0-5-8, 2=2801/0-5-8
 Max Horz 2=390(LC 23)
 Max Uplift 12=-3100(LC 4), 2=-2397(LC 8)
 Max Grav 12=3109(LC 32), 2=2801(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-6113/5436, 3-4=-4985/4795, 4-5=-4550/4480, 5-6=-4736/4602, 6-8=-4736/4602, 9-12=-373/501
 BOT CHORD 2-15=-5254/5598, 14-15=-5254/5598, 13-14=-5115/5046, 12-13=-2892/2797
 WEBS 3-15=-406/642, 3-14=-1202/961, 4-14=-1197/1424, 5-14=-737/849, 5-13=-587/716, 6-13=-604/865, 8-13=-2271/2575, 8-12=-3637/3800

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=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=3100, 2=2397.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 4-6-12 from the left end to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

Continued on page 2



February 20,2020

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	I40339623
MASTER	A27	Half Hip Girder	1	2	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:27:19 2020 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-9=-60, 9-10=-20, 11-16=-20

Concentrated Loads (lb)

Vert: 4=-80(F) 7=-80(F) 9=-98(F) 12=-56(F) 14=-52(F) 5=-80(F) 13=-52(F) 6=-80(F) 8=-80(F) 19=-80(F) 20=-80(F) 21=-80(F) 22=-80(F) 23=-80(F) 24=-80(F)
 25=-80(F) 26=-279(F) 27=-194(F) 28=-194(F) 29=-194(F) 30=-52(F) 31=-52(F) 33=-52(F) 35=-52(F) 36=-52(F) 37=-52(F) 38=-52(F) 40=-52(F) 42=-52(F) 43=-52(F)

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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339624
MASTER	A28	Half Hip	1	1		
Builders FirstSource, Sumter, SC - 29153,						Job Reference (optional)

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:27:20 2020 Page 1

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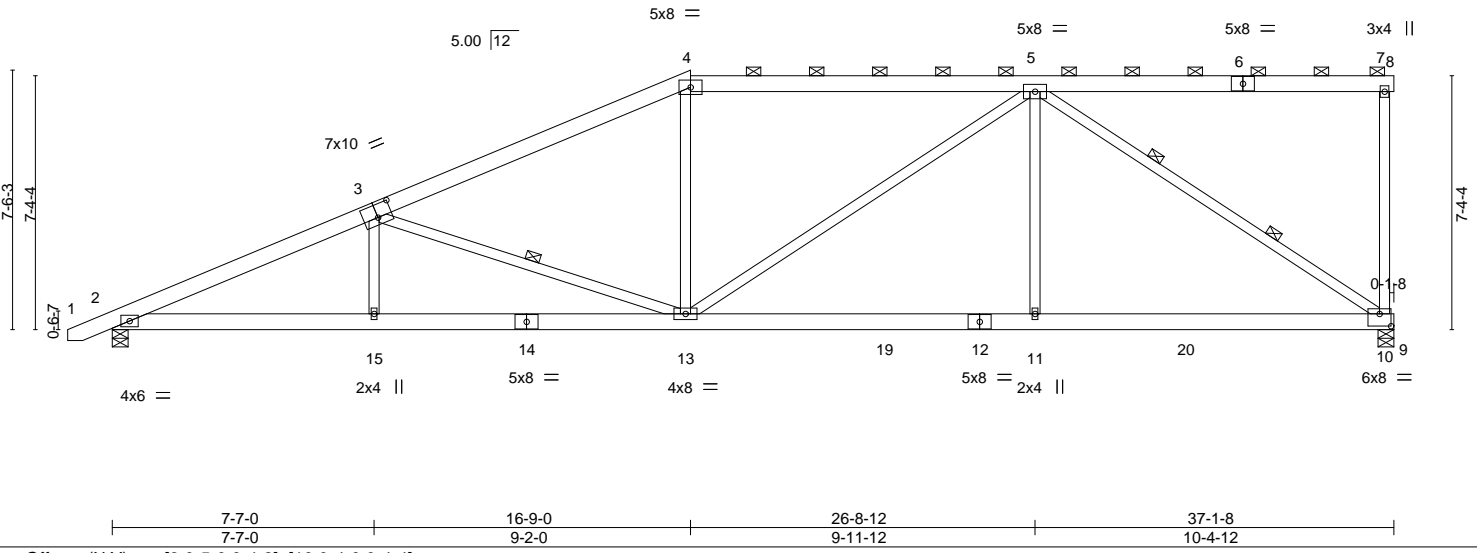


Plate Offsets (X,Y)--	[3:0-5-0,0-4-8], [10:0-4-0,0-4-4]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.69	Vert(LL) -0.12 11-13 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.57	Vert(CT) -0.25 13-15 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.91	Horz(CT) 0.08 10 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.18 13-15 >999 240	Weight: 262 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-6-15 max.): 4-8.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 5-13,5-10: 2x4 SP No.1	WEBS 1 Row at midpt 3-13 2 Rows at 1/3 pts 5-10

REACTIONS. (lb/size) 10=1484/0-5-8, 2=1540/0-5-8
 Max Horz 2=503(LC 12)
 Max Uplift 10=795(LC 8), 2=679(LC 12)
 Max Grav 10=1490(LC 2), 2=1540(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3138/1879, 3-4=-2276/1372, 4-5=-2009/1390, 7-10=-261/262
 BOT CHORD 2-15=-2129/2856, 13-15=-2129/2855, 11-13=-1093/1731, 10-11=-1093/1731
 WEBS 3-15=0/321, 3-13=-895/790, 4-13=0/441, 5-13=-371/392, 5-11=0/530, 5-10=-2060/1301

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=795, 2=679.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



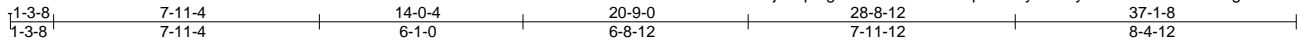
February 20,2020

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339625
MASTER	A29	Half Hip	1	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:27:21 2020 Page 1
 ID:zV7Fc4jHuqlrogucND5EIUzsWFO-pJ6HMyN9xHyYtCL7aeklzQ72B4zgr5u7uXIFqrzjDJK



Scale = 1:68.8

5x14 MT20HS =

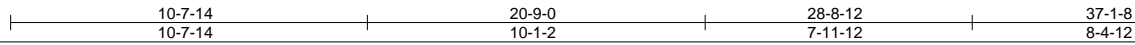
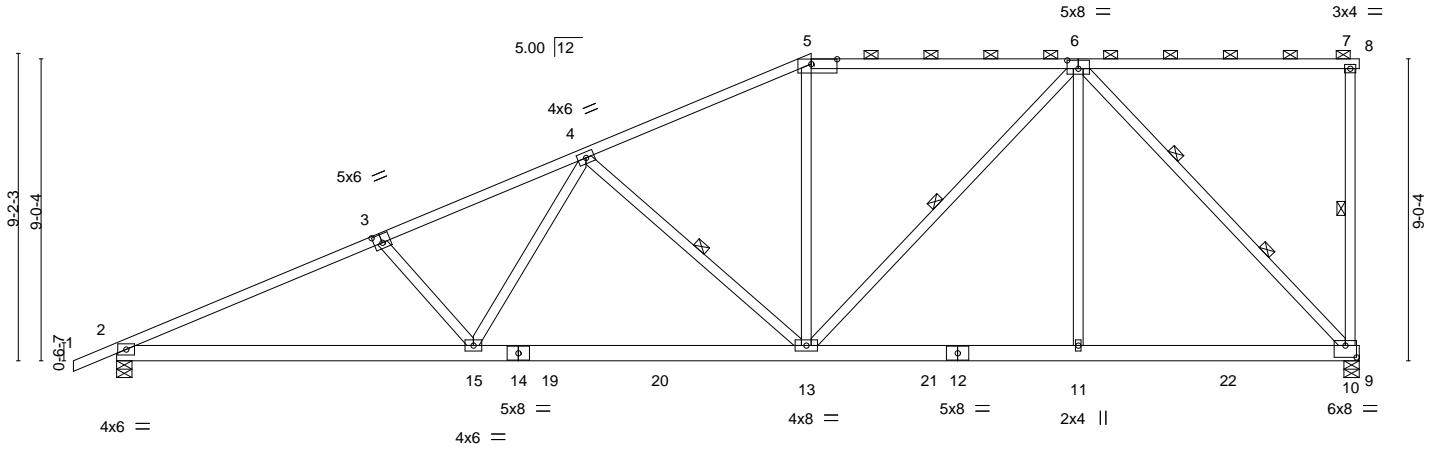


Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [5:0-9-4,0-1-12], [6:0-4-0,0-3-0], [10:0-4-0,0-4-4]

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 0.92	Vert(LL) -0.18 13-15 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.60	Vert(CT) -0.33 13-15 >999 240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.93	Horz(CT) 0.07 10 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.20 15 >999 240		
				Weight: 246 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 (2-2-0 max.): 5-8.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 7-10, 4-13, 6-13
 2 Rows at 1/3 pts 6-10

REACTIONS. (lb/size) 10=1484/0-5-8, 2=1553/0-5-8
 Max Horz 2=624(LC 12)
 Max Uplift 10=774(LC 8), 2=723(LC 12)
 Max Grav 10=1547(LC 2), 2=1553(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2992/1758, 3-4=-2714/1646, 4-5=-1798/1126, 5-6=-1605/1129
 BOT CHORD 2-15=-2121/2682, 13-15=-1656/2152, 11-13=-772/1206, 10-11=-772/1206
 WEBS 3-15=-386/499, 4-15=-310/619, 4-13=-775/717, 5-13=-3/354, 6-13=-516/641,
 6-11=0/451, 6-10=-1729/1100

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=774, 2=723.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20,2020

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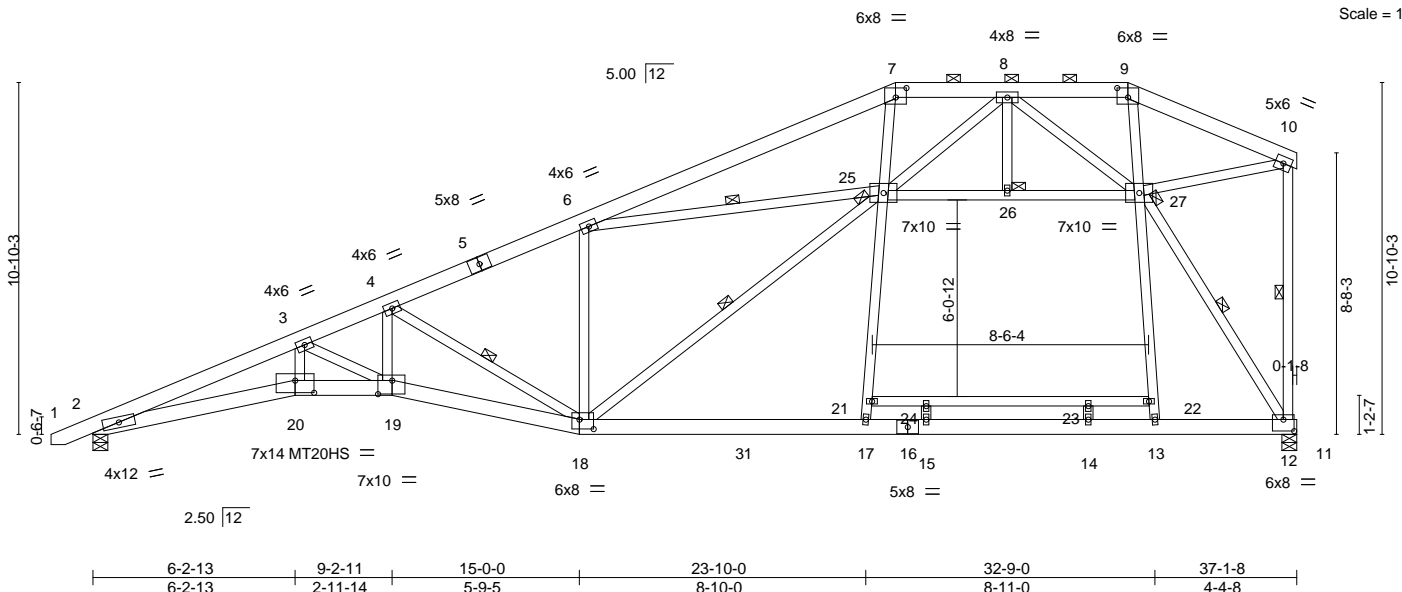
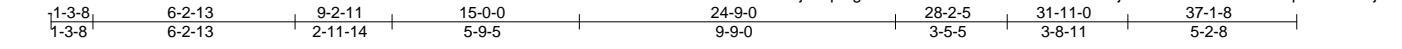
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339626
MASTER	A30	Hip	1	1		

Builders FirstSource, Sumter, SC - 29153,

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ID:zV7Fc4jHuqrogucND5EIUzsWFO-lhE1ndPPTuDGjvVh3mD3rCUrudkJOqQMrBLvkzjDJI



Scale = 1:71.1

Plate Offsets (X,Y)--	[7:0-4-0,0-3-8], [9:0-4-0,0-3-8], [12:0-4-0,0-4-4], [18:0-5-4,0-3-8], [19:0-5-4,0-5-0], [20:0-7-0,0-4-8]
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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 0.52	Vert(LL)	-0.24	19	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.75	Vert(CT)	-0.50	19	>882	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.83	Horz(CT)	0.20	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.44	19	>999		
								Weight: 346 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-2-1 max.): 7-9.
BOT CHORD 2x6 SP No.2 *Except* 2-20,19-20: 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* 21-22: 2x4 SP No.2	WEBS 1 Row at midpt 4-18, 10-12, 12-27, 6-25, 18-25
	JOINTS 1 Brace at Jt(s): 25, 26, 27

REACTIONS. (lb/size) 2=1587/0-5-8, 12=1632/0-5-8
 Max Horz 2=662(LC 12)
 Max Uplift 2=-700(LC 12), 12=-460(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-5576/3467, 3-4=-4225/2537, 4-6=-2476/1379, 6-7=-2175/1196, 7-8=-1854/1235, 8-9=-192/297, 9-10=-293/374
 BOT CHORD 2-20=-3760/5172, 19-20=-3619/4973, 18-19=-2859/4075, 17-18=-577/1106, 15-17=-584/1069, 14-15=-584/1069, 13-14=-584/1069, 12-13=-576/1103
 WEBS 3-20=-660/997, 3-19=-1215/998, 4-19=-1022/1534, 4-18=-2056/1499, 6-18=-459/574, 17-21=0/468, 21-25=0/484, 7-25=0/489, 9-27=-433/437, 22-27=0/432, 13-22=0/411, 8-25=-806/1258, 8-27=-1499/927, 10-27=-334/321, 12-27=-2024/1051, 6-25=-376/483, 18-25=-1230/1483

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 200.0lb AC unit load placed on the bottom chord, 28-2-3 from left end, supported at two points, 5-0-0 apart.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 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=700, 12=460.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20,2020

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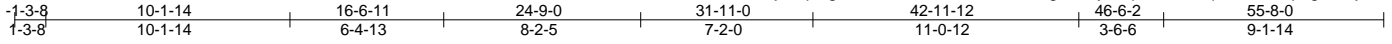
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339627
MASTER	A31	Hip	1	1		

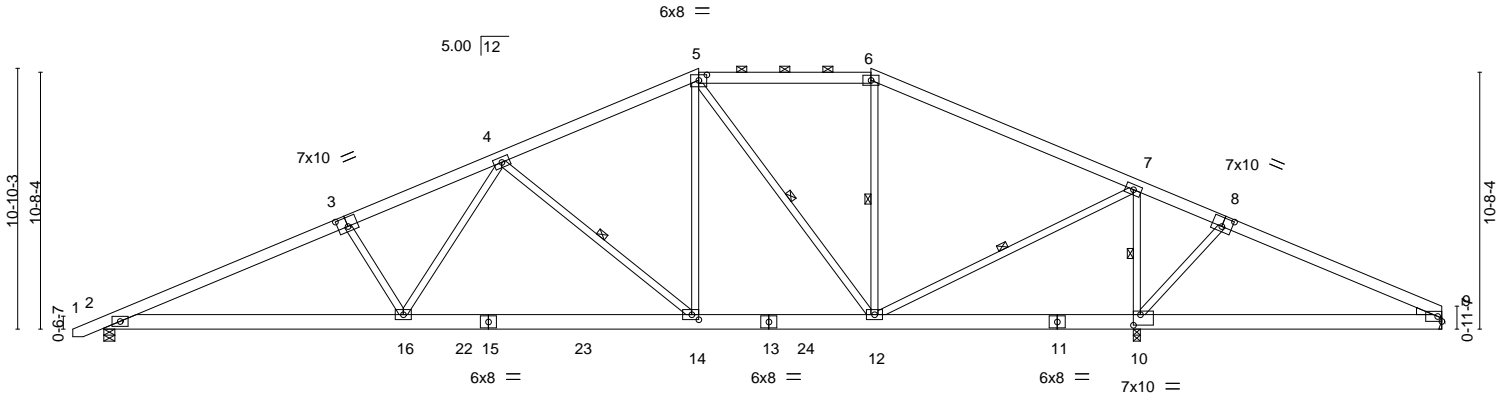
Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:27:25 2020 Page 1

ID:zV7Fc4jHuqIrogucND5EIUzswFo-h4MnBJQg?VTzyDfupUoh8GHqwhQAnvLip9gSzczjDJG



Scale: 1/8"=1'



	12-5-8	24-9-0	31-11-0	42-11-12	55-8-0
	12-5-8	12-3-8	7-2-0	11-0-12	12-8-4
Plate Offsets (X,Y)--	[3:0-5-0,0-4-8],	[5:0-4-0,0-2-12],	[8:0-5-0,0-4-8],	[10:0-3-8,0-5-4],	[14:0-3-8,0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.55	Vert(LL)	-0.16	14-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(CT)	-0.31	14-16	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.90	Horz(CT)	0.05	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.22	16-18	>999	240	Weight: 428 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x8 SP DSS	2-0-0 oc purlins (6-0-0 max.): 5-6.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
WEDGE	WEBS 1 Row at midpt 4-14, 5-12, 6-12, 7-12, 7-10
Right: 2x4 SP No.3	

REACTIONS. (lb/size) 2=1730/0-5-8, 10=2463/0-3-8, 9=324/Mechanical
 Max Horz 2=350(LC 12)
 Max Uplift 2=-841(LC 12), 10=-939(LC 13), 9=-237(LC 13)
 Max Grav 2=1730(LC 1), 10=2463(LC 1), 9=416(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3417/2223, 3-4=-3179/2182, 4-5=-1922/1433, 5-6=-1241/1162, 6-7=-1471/1099,
 7-8=-173/379, 8-9=-283/298
 BOT CHORD 2-16=-1889/3090, 14-16=-1365/2434, 12-14=-674/1693, 10-12=-328/387
 WEBS 3-16=-462/572, 4-16=-470/859, 4-14=-994/901, 5-14=-466/982, 5-12=-877/473,
 7-12=-896/1676, 7-10=-1879/1425, 8-10=-323/370

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are 5x8 MT20 unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=841, 10=939, 9=237.
 - 10) 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.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20, 2020

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339628
MASTER	A32	Hip	1	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:27:30 2020 Page 1
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Scale: 1/8"=1'

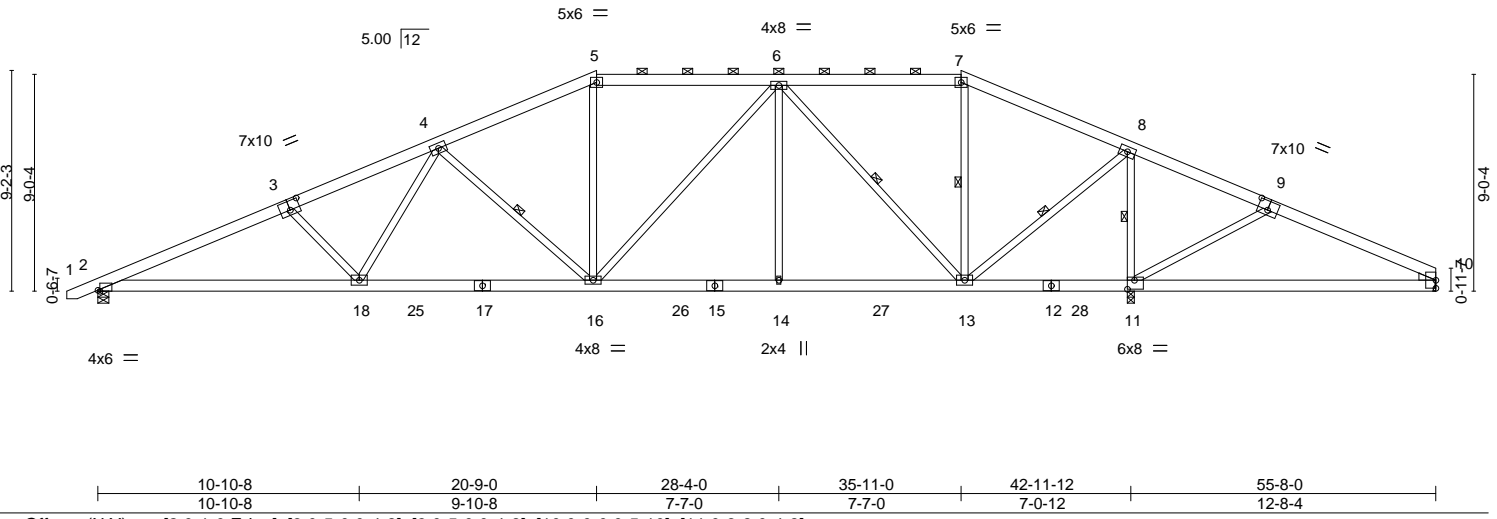


Plate Offsets (X,Y)-- [2:0-1-0,Edge], [3:0-5-0,0-4-8], [9:0-5-0,0-4-8], [10:0-0-0,0-5-10], [11:0-3-8,0-4-8]

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 0.42	Vert(LL)	-0.17	16-18	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.68	Vert(CT)	-0.33	16-18	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.94	Horz(CT)	0.08	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.20	18-21	>999	Weight: 400 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (5-0-3 max.): 5-7.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
WEDGE	WEBS 1 Row at midpt 4-16, 6-13, 7-13, 8-13, 8-11
Right: 2x4 SP No.3	

REACTIONS. (lb/size) 2=1689/0-5-8, 11=2645/0-3-8, 10=184/Mechanical
 Max Horz 2=300(LC 12)
 Max Uplift 2=-779(LC 12), 11=-1100(LC 9), 10=-187(LC 13)
 Max Grav 2=1689(LC 1), 11=2645(LC 1), 10=282(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3415/2196, 3-4=-3134/2057, 4-5=-2193/1536, 5-6=-1971/1505, 6-7=-808/756,
 7-8=-936/716, 8-9=-425/732, 9-10=-220/473
 BOT CHORD 2-18=-1909/3106, 16-18=-1408/2525, 14-16=-689/1737, 13-14=-689/1737,
 11-13=-627/692, 10-11=-384/248
 WEBS 3-18=-427/522, 4-18=-322/640, 4-16=-781/713, 5-16=-165/478, 6-16=-355/438,
 6-14=0/414, 6-13=-1415/830, 8-13=-1071/1866, 8-11=-2114/1534, 9-11=-553/579

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are 5x8 MT20 unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=779, 11=1100, 10=187.
 - 10) 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.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20,2020

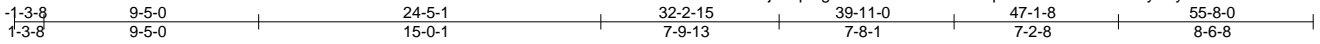
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339629
MASTER	A33	Hip	1	1		

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8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:27:33 2020 Page 1

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Scale = 1:101.0

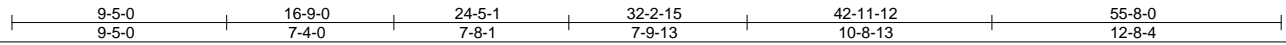
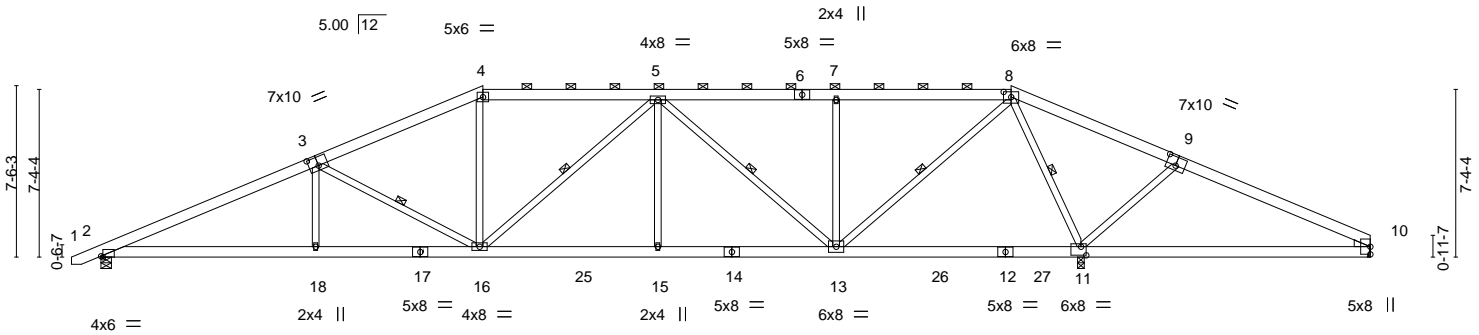


Plate Offsets (X,Y)-- [2:0-1-0,Edge], [3:0-5-0,0-4-8], [8:0-4-0,0-2-12], [9:0-5-0,0-4-8], [10:0-0-0,0-5-10], [11:0-2-12,0-4-8]

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 0.54	Vert(LL)	-0.15	15-16	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.69	Vert(CT)	-0.30	15-16	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.82	Horz(CT)	0.09	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.22	15-16	>999		
								Weight: 380 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (4-7-3 max.): 4-8.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-16, 8-11, 8-13, 5-16, 5-13

REACTIONS. (lb/size) 2=1665/0-5-8, 11=2749/0-3-8, 10=104/Mechanical
Max Horz 2=250(LC 12)
Max Uplift 2=-724(LC 12), 11=-1272(LC 9), 10=-208(LC 13)
Max Grav 2=1665(LC 1), 11=2749(LC 1), 10=184(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3309/2080, 3-4=-2556/1693, 4-5=-2276/1649, 5-7=-1506/1130, 7-8=-1508/1132,
8-9=-467/972, 9-10=-306/751
BOT CHORD 2-18=-1779/2995, 16-18=-1779/2994, 15-16=-1123/2259, 13-15=-1123/2259,
10-11=-639/346
WEBS 3-18=0/337, 3-16=-812/712, 4-16=-223/583, 8-11=-2220/1479, 9-11=-618/701,
8-13=-1157/1987, 5-16=-258/134, 7-13=-504/476, 5-15=0/359, 5-13=-1015/647

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=724, 11=1272, 10=208.
 - 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.



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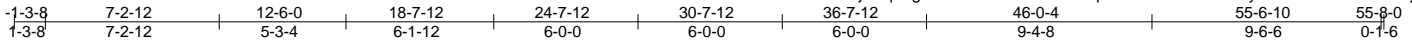


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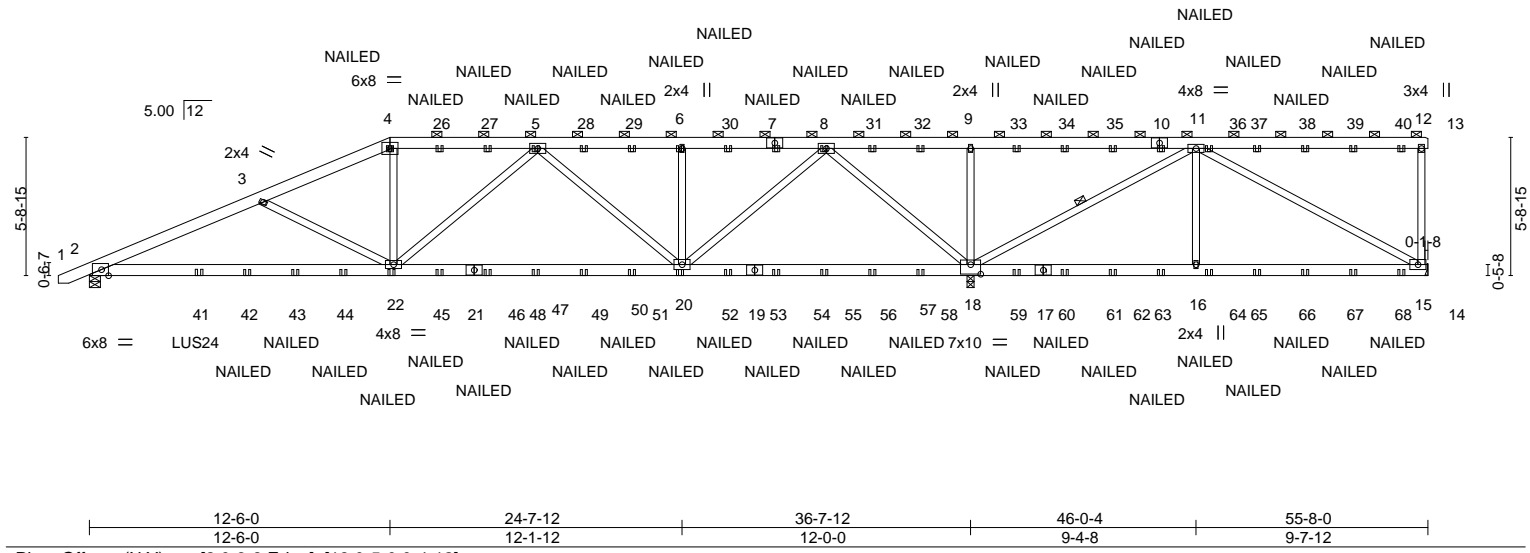
Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339630
MASTER	A34	Hip Girder	1	2		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:27:41 2020 Page 1
 ID:zV7Fc4jHuqrogucND5EIUzsWfo-D9KqYndiEQUihtzlr5SneyXr8kCX8w3VeYIXhzjDJO



Scale: 1/8"=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 0.68	Vert(LL)	0.48	22-25	>910	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.86	Vert(CT)	-0.46	22-25	>959		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.92	Horz(CT)	-0.06	15	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 773 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-13.
BOT CHORD 2x6 SP No.2 *Except* 2-21,14-17: 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 7-8-9 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 11-18

REACTIONS. (lb/size) 2=2398/0-5-8, 18=5108/0-3-8, 15=632/Mechanical
 Max Horz 2=390(LC 27)
 Max Uplift 2=-2000(LC 8), 18=-5471(LC 4), 15=-801(LC 5)
 Max Grav 2=2398(LC 1), 18=5572(LC 36), 15=822(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-4680/4162, 3-4=-4062/3799, 4-5=-3697/3568, 5-6=-2743/2665, 6-8=-2743/2665,
 8-9=-2566/2574, 9-11=-2566/2574, 12-15=-431/614
 BOT CHORD 2-22=-4122/4330, 20-22=-3674/3579, 18-20=-506/422, 16-18=-272/321, 15-16=-272/321
 WEBS 3-22=-749/687, 4-22=-865/1124, 5-22=-273/375, 5-20=-1289/1357, 6-20=-634/908,
 8-20=-2883/3124, 8-18=-3963/4090, 9-18=-754/1025, 11-18=-3267/3230, 11-16=-110/689,
 11-15=-316/252

- 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=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed;
 MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are 5x8 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 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=2000, 18=5471, 15=801.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 4-6-12 from the left end to connect truss(es) to back face of bottom chord.



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TRENCO ENGINEERING BY
 A MiTek Affiliate
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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339630
MASTER	A34	Hip Girder	1	2	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:27:41 2020 Page 2
 ID:zV7Fc4jHuqlrogucND5EIUzsWFo-D9KqYndiEQUithtzlr5SneyXr8kCX8w3VeYIXhzjDJO

NOTES-

- 15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 85 lb down and 24 lb up at 36-6-12 on top 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: 1-4=-60, 4-12=-60, 12-13=-20, 14-23=-20

Concentrated Loads (lb)

Vert: 4=-80(B) 7=-80(B) 22=-52(B) 5=-80(B) 20=-52(B) 6=-80(B) 8=-80(B) 10=-80(B) 26=-80(B) 27=-80(B) 28=-80(B) 29=-80(B) 30=-80(B) 31=-80(B) 32=-80(B) 33=-80(B) 34=-80(B) 35=-80(B) 36=-80(B) 37=-80(B) 38=-80(B) 39=-80(B) 40=-83(B) 41=-279(B) 42=-194(B) 43=-194(B) 44=-194(B) 45=-52(B) 46=-52(B) 48=-52(B) 50=-52(B) 51=-52(B) 52=-52(B) 53=-52(B) 55=-52(B) 57=-52(B) 58=-52(B) 59=-52(B) 60=-52(B) 61=-52(B) 63=-52(B) 64=-52(B) 65=-52(B) 66=-52(B) 67=-52(B) 68=-52(B)

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

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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339631
MASTER	B01	GABLE	4	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:27:43 2020 Page 1
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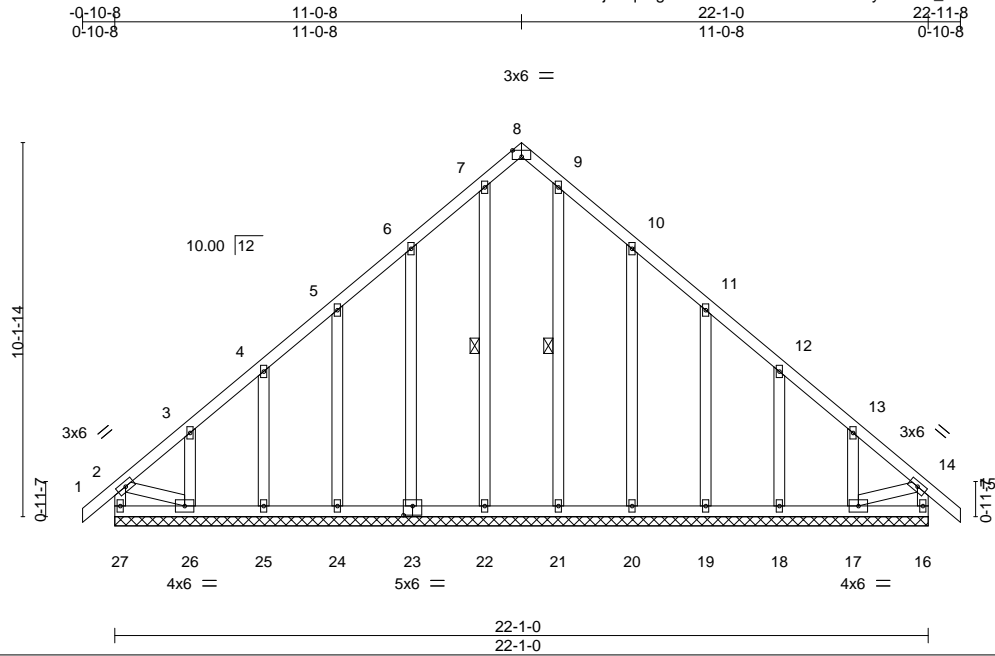


Plate Offsets (X,Y)--	[8:0-3-0,Edge], [23:0-3-0,0-3-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.18	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(LL) -0.00 15 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.27	Vert(CT) -0.00 15 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 16 n/a n/a		
	Code IRC2015/TPI2014			Weight: 167 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 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 7-22, 9-21
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 22-1-0.
 (lb) - Max Horz 27=489(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 22 except 27=-193(LC 10), 16=-125(LC 11), 23=-224(LC 12), 24=-180(LC 12), 25=-188(LC 12), 26=-373(LC 12), 20=-231(LC 13), 19=-180(LC 13), 18=-189(LC 13), 17=-360(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 22, 23, 24, 25, 21, 20, 19, 18 except 27=440(LC 12), 16=406(LC 13), 26=273(LC 19), 17=254(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-27=-422/302, 2-3=-542/366, 3-4=-395/254, 12-13=-360/253, 13-14=-505/381, 14-16=-390/323
 BOT CHORD 26-27=-442/444, 25-26=-377/469, 24-25=-377/469, 23-24=-377/469, 22-23=-378/470, 21-22=-378/470, 20-21=-378/470, 19-20=-378/470, 18-19=-378/470, 17-18=-378/470
 WEBS 6-23=-264/248, 10-20=-265/255, 2-26=-369/495, 14-17=-360/478

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22 except (jt=lb) 27=193, 16=125, 23=224, 24=180, 25=188, 26=373, 20=231, 19=180, 18=189, 17=360.



February 20, 2020

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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339632
MASTER	B02	Common	54	1		

Builders FirstSource, Sumter, SC - 29153,

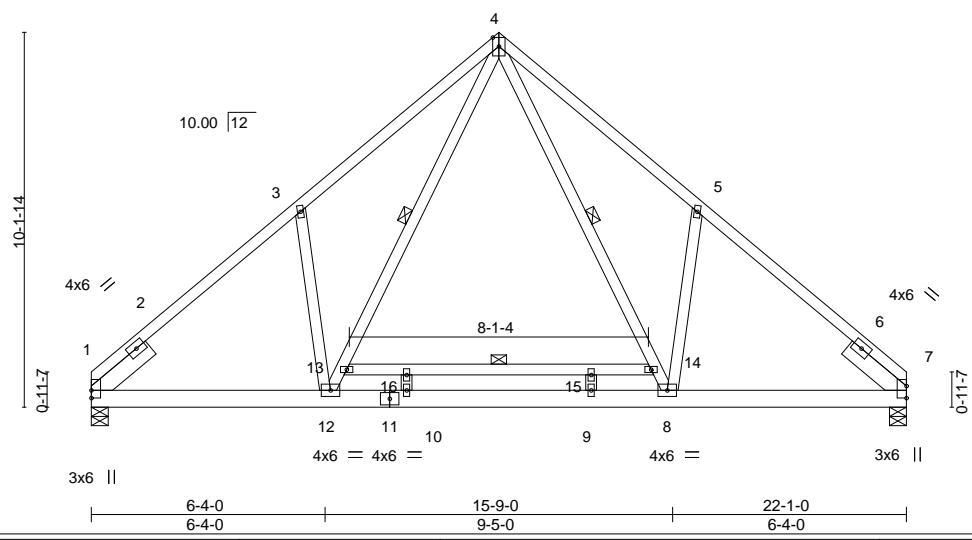
8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:27:45 2020 Page 1

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4x6 ||

Scale = 1:62.4



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 0.44	Vert(LL)	-0.05	9-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.38	Vert(CT)	-0.19	9-10	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.28	Horz(CT)	0.02	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.04	12-19	>999		
								Weight: 164 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 *Except*	WEBS 1 Row at midpt 4-8, 4-12, 13-14
13-14: 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=983/0-5-8, 7=983/0-5-8	
Max Horz 1=409(LC 9)	
Max Uplift 1=-255(LC 12), 7=-255(LC 13)	

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

TOP CHORD	1-3=-1384/418, 3-4=-1605/725, 4-5=-1605/725, 5-7=-1384/418
BOT CHORD	1-12=-300/1045, 10-12=-26/670, 9-10=-26/670, 8-9=-26/670, 7-8=-147/898
WEBS	4-14=-425/893, 8-14=-452/871, 5-8=-523/556, 12-13=-453/871, 4-13=-424/893, 3-12=-523/555

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 200.0lb AC unit load placed on the bottom chord, 11-0-8 from left end, supported at two points, 5-0-0 apart.
- All plates are 2x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=255, 7=255.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 20, 2020

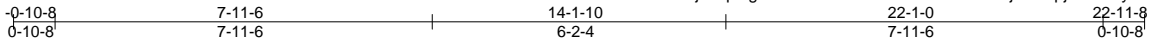
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339633
MASTER	B03	GABLE	2	1		

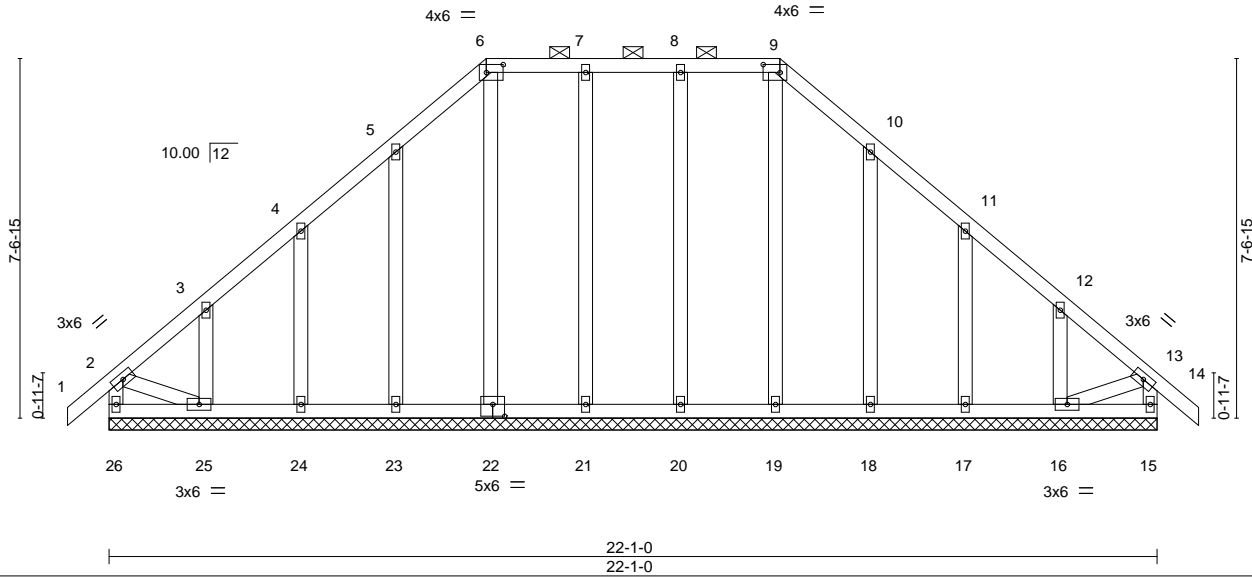
Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:27:48 2020 Page 1

ID:zV7Fc4jHuqlrogucND5EIUsWFO-WVfU0Bi5aaMjDwJfpj5Z6kskyJEgVp56EkAGnzjDlv



Scale = 1:48.6



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 0.13	Vert(LL)	-0.00	14	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	-0.00	14	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.01	15	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 159 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-9.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 25-26,15-16.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 22-1-0.
 (lb) - Max Horz 26=376(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 15, 21, 22 except 26=175(LC 8), 23=191(LC 12), 24=190(LC 12), 25=287(LC 12), 20=101(LC 9), 18=190(LC 13), 17=191(LC 13), 16=269(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 15, 21, 22, 23, 24, 20, 19, 18, 17, 16 except 26=254(LC 20), 25=262(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=264/247, 5-6=271/309, 6-7=239/284, 7-8=239/285, 8-9=239/284, 9-10=272/310
 BOT CHORD 25-26=334/334
 WEBS 2-25=220/280

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 21, 22 except (jt=lb) 26=175, 23=191, 24=190, 25=287, 20=101, 18=190, 17=191, 16=269.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20,2020

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

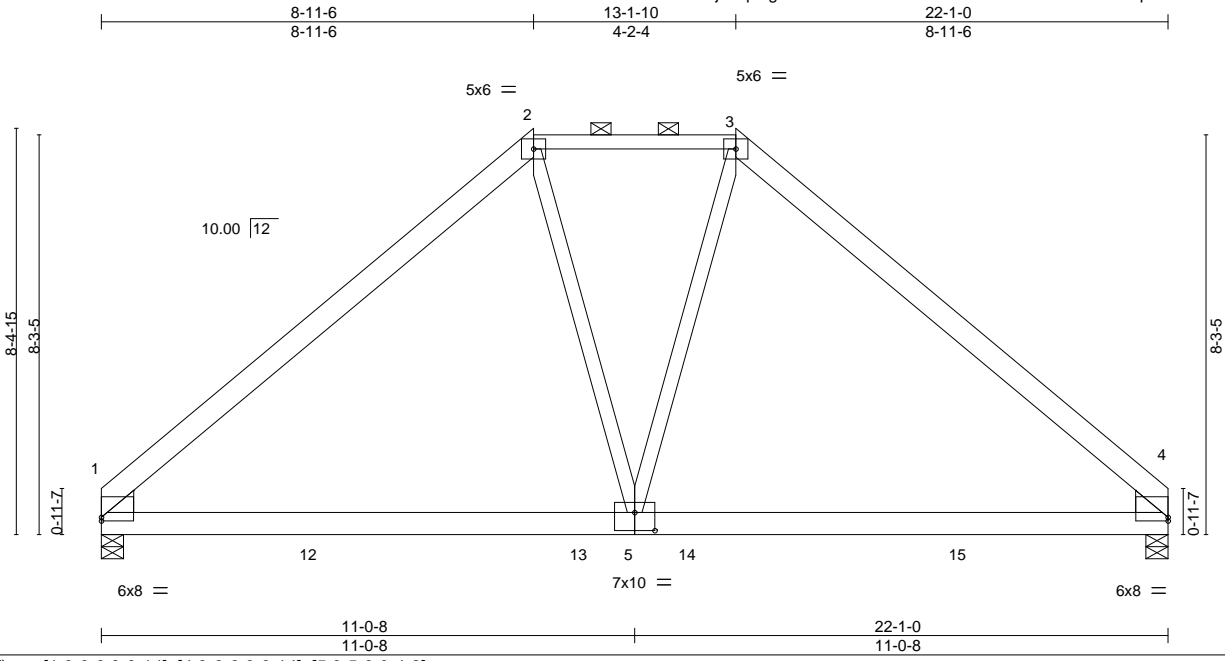
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339634
MASTER	B04	Hip	2	1		

Builders FirstSource, Sumter, SC - 29153,

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ID:zV7Fc4jHuqlrogucND5EIUzsWFO-SuMERskL6BcQS33hmEIZfXq44mt8P9OZYDHLgzjDlt



Scale: 1/4"=1'

Plate Offsets (X,Y)--	[1:0-0-0,0-0-14], [4:0-0-0,0-0-14], [5:0-5-0,0-4-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.59	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.63	Vert(LL) -0.09 5-8 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.15	Vert(CT) -0.17 5-8 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) -0.03 1 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.13 5-8 >999 240	Weight: 140 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 2-3: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-4-11 max.): 2-3.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	
WEDGE Left: 2x6 SP No.2, Right: 2x6 SP No.2	

REACTIONS.	(lb/size)
1=883/0-5-8, 4=883/0-5-8	
Max Horz 1=-332(LC 8)	
Max Uplift 1=-342(LC 12), 4=-342(LC 13)	
Max Grav 1=941(LC 2), 4=941(LC 2)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-1050/538, 2-3=-929/610, 3-4=-1050/538
BOT CHORD	1-5=-235/770, 4-5=-137/697
WEBS	2-5=-122/417, 3-5=-121/417

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=342, 4=342.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



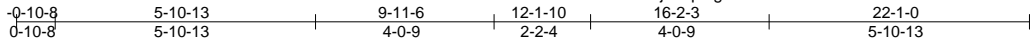
February 20,2020

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339635
MASTER	B05	Hip	2	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:27:52 2020 Page 1
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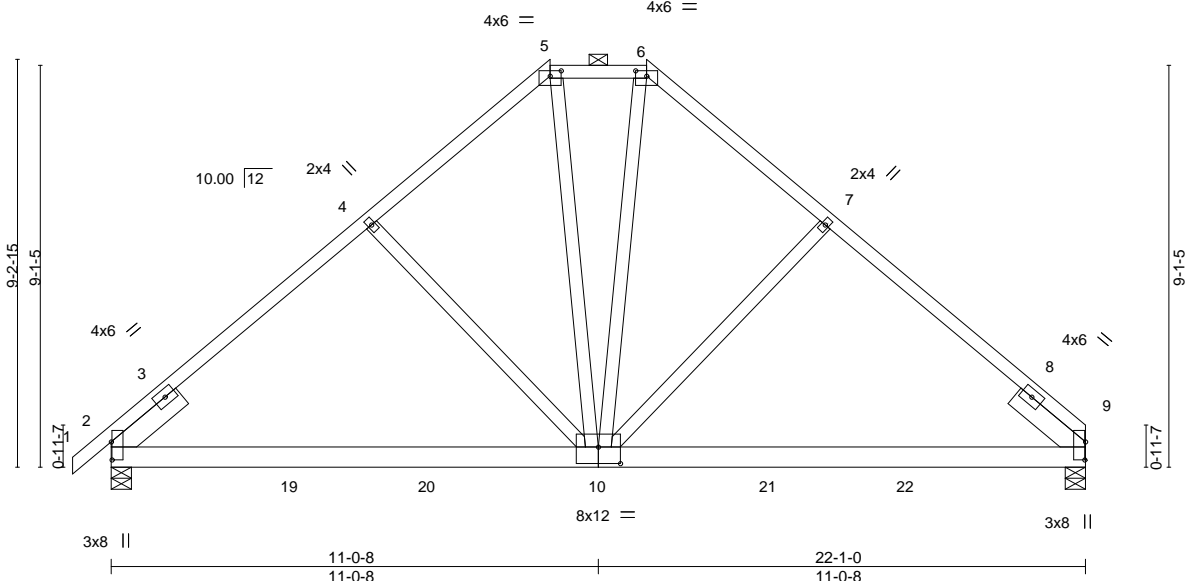


Plate Offsets (X,Y)--	[2:0-4-14,0-0-3], [5:0-3-0,0-1-7], [6:0-3-0,0-1-7], [9:0-4-14,0-0-3], [10:0-6-0,0-4-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.37	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.48	Vert(LL) -0.06 10-13 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.45	Vert(CT) -0.13 10-13 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.02 2 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.08 10-13 >999 240	Weight: 151 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 (6-0-0 max.): 5-6.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12	

REACTIONS. (lb/size) 9=882/0-5-8, 2=937/0-5-8
 Max Horz 2=387(LC 9)
 Max Uplift 9=-349(LC 13), 2=-392(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1083/604, 4-5=-1012/604, 5-6=-889/577, 6-7=-1012/604, 7-9=-1083/604
 BOT CHORD 2-10=-374/883, 9-10=-273/702
 WEBS 4-10=-438/415, 5-10=-219/455, 6-10=-219/455, 7-10=-438/417

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 9=349, 2=392.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20, 2020

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ENGINEERING BY
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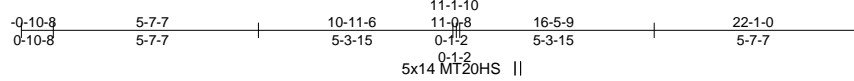
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339636
MASTER	B06	HIP	2	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:27:53 2020 Page 1

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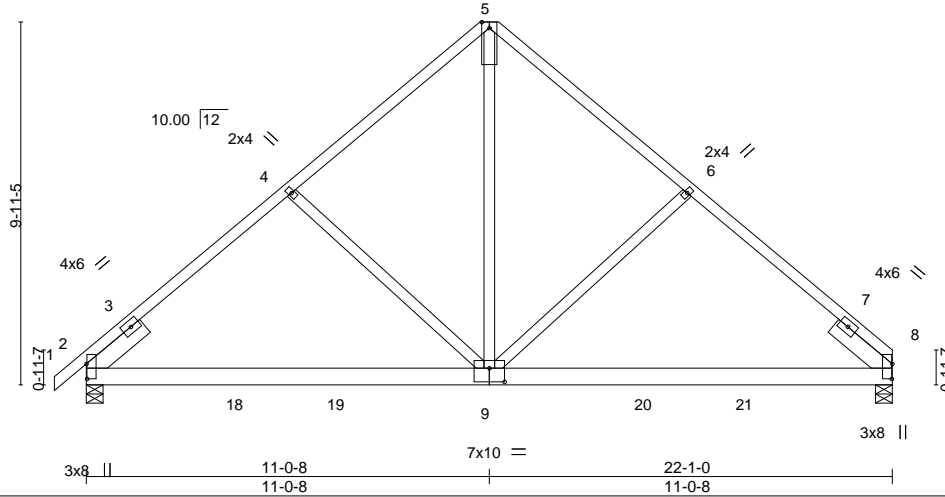


Plate Offsets (X,Y)--	[2:0-0,0-0-0], [2:0-4-14,0-0-3], [8:0-4-14,0-0-3], [9:0-5-0,0-4-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.42	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.47	Vert(LL) -0.06 9-16 >999 360	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.78	Vert(CT) -0.13 9-12 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.02 2 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.06 9-12 >999 240	Weight: 141 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	
SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12	

REACTIONS.	(lb/size)
8=882/0-5-8, 2=937/0-5-8	
Max Horz 2=426(LC 11)	
Max Uplift 8=-356(LC 13), 2=-398(LC 12)	
Max Grav 8=901(LC 20), 2=956(LC 19)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-1124/605, 4-5=-1055/592, 5-6=-1055/592, 6-8=-1124/605
BOT CHORD	2-9=-435/959, 8-9=-289/756
WEBS	5-9=-435/891, 4-9=-469/457, 6-9=-469/458

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=356, 2=398.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 20, 2020

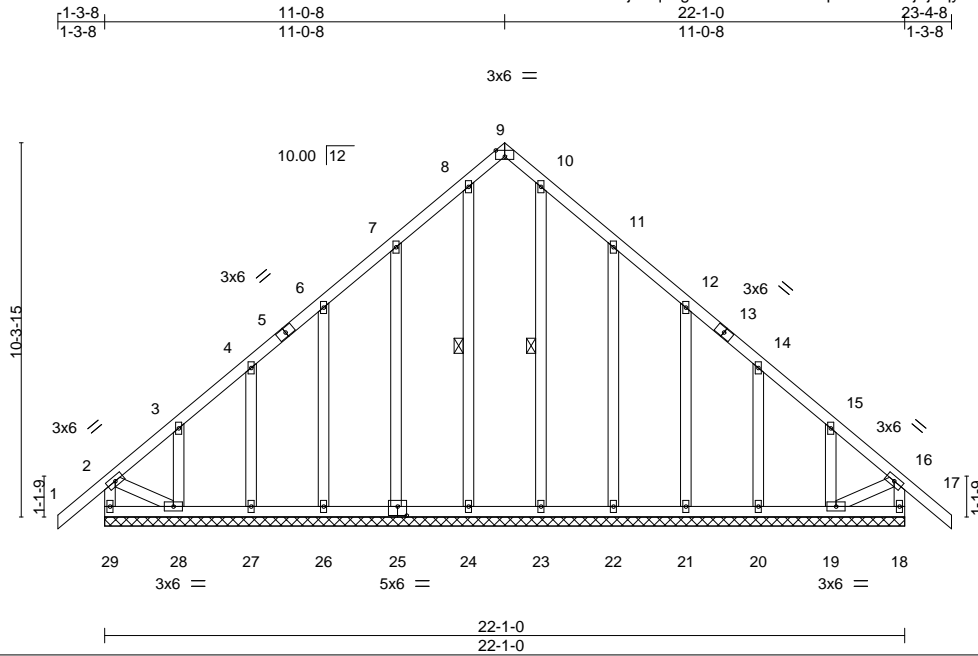
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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339637
MASTER	B07	GABLE	2	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:27:55 2020 Page 1
ID:zV7Fc4jHuqIrogucND5EIUzsWFO-prA7UaoUxjFjYqyfZnLkMbX0wniWpdM7jpx20tzjDl0



Scale: 3/16"=1'

Plate Offsets (X,Y)--	[9:0-3-0,Edge], [25:0-3-0,0-3-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/def L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.26	Vert(LL) -0.01 17 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) -0.01 17 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.28	Horz(CT) 0.02 18 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 172 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 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 8-24, 10-23
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 22-1-0.
 (lb) - Max Horz 29=516(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 24 except 29=195(LC 10), 18=120(LC 11), 25=225(LC 12), 26=179(LC 12), 27=192(LC 12), 28=396(LC 12), 22=231(LC 13), 21=179(LC 13), 20=193(LC 13), 19=381(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 24, 25, 26, 27, 23, 22, 21, 20 except 29=443(LC 12), 18=407(LC 13), 28=285(LC 10), 19=255(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-29=-425/338, 2-3=-527/357, 3-4=-392/257, 14-15=-358/252, 15-16=-491/387, 16-18=-391/366
 BOT CHORD 28-29=-469/467, 27-28=-397/489, 26-27=-397/489, 25-26=-397/489, 24-25=-399/490, 23-24=-399/490, 22-23=-399/490, 21-22=-399/490, 20-21=-399/490, 19-20=-399/490
 WEBS 7-25=-264/249, 11-22=-266/256, 15-19=-251/186, 2-28=-377/510, 16-19=-361/488

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24 except (jt=lb) 29=195, 18=120, 25=225, 26=179, 27=192, 28=396, 22=231, 21=179, 20=193, 19=381.



February 20,2020

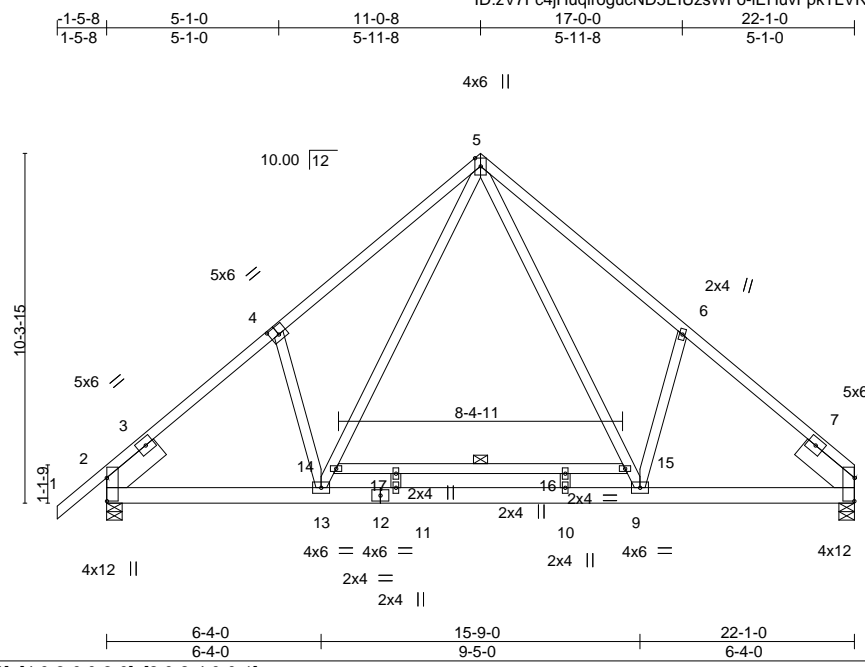
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ENGINEERING BY TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339638
MASTER	B08	COMMON	27	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 0.47	Vert(LL)	-0.06	10-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.42	Vert(CT)	-0.21	10-11	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.86	Horz(CT)	0.03	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.05	10-11	>999	Weight: 170 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 *Except*	WEBS 1 Row at midpt 14-15
14-15: 2x4 SP No.2	
SLIDER Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12	

REACTIONS. (lb/size) 8=980/0-5-8, 2=1074/0-5-8
 Max Horz 2=445(LC 9)
 Max Uplift 8=-252(LC 13), 2=-323(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1353/412, 4-5=-1518/654, 5-6=-1518/664, 6-8=-1365/417
 BOT CHORD 2-13=-329/1031, 11-13=-56/713, 10-11=-56/713, 9-10=-56/713, 8-9=-173/900
 WEBS 5-15=-357/800, 9-15=-369/736, 6-9=-480/532, 13-14=-352/733, 5-14=-341/797,
 4-13=-481/528

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 200.0lb AC unit load placed on the bottom chord, 11-0-8 from left end, supported at two points, 5-0-0 apart.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=252, 2=323.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



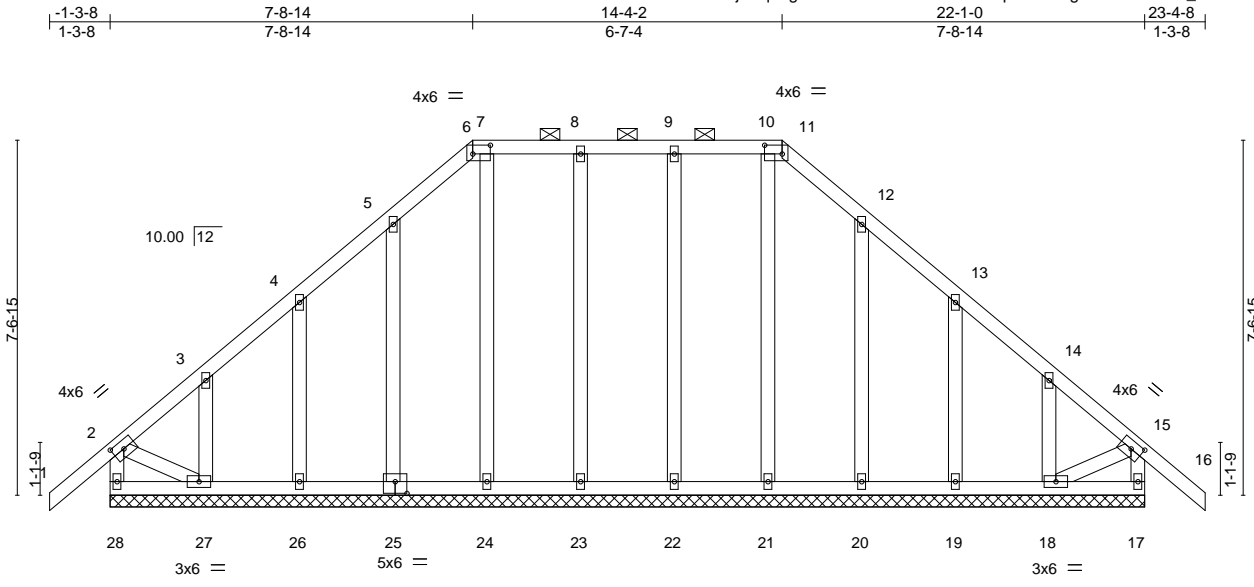
February 20, 2020

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339639
MASTER	B09	GABLE	1	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:27:58 2020 Page 1
 ID:zV7Fc4jHuqlrogucND5EIUsWFO-DQrG7bqNDedlPIgEEwuRzD9XA_kY00CZPnAidCzjDII



Scale = 1:49.2

Plate Offsets (X,Y)--	[2:0-2-14,0-2-0], [6:0-0-0,0-1-12], [6:0-4-8,0-2-4], [7:0-1-12,0-0-0], [10:0-1-12,0-0-0], [11:0-4-8,0-2-4], [11:0-0-0,0-1-12], [15:0-2-14,0-2-0], [25:0-3-0,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.26	Vert(LL)	-0.01	16	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	-0.01	16	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.01	17	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 162 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-11.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 27-28,17-18.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 22-1-0.
 (lb) - Max Horz 28=-396(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 17, 24, 21 except 28=-178(LC 8), 23=-107(LC 8), 25=-170(LC 12), 26=-198(LC 12), 27=-292(LC 12), 22=-103(LC 9), 20=-167(LC 13), 19=-201(LC 13), 18=-273(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 17, 23, 24, 25, 26, 22, 21, 20, 19, 18 except 28=284(LC 20), 27=260(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-28=-264/184, 2-3=-253/228, 5-6=-257/285, 6-7=-227/263, 7-8=-227/263, 8-9=-227/263, 9-10=-227/263, 10-11=-227/263, 11-12=-256/285
 BOT CHORD 27-28=-352/349, 26-27=-221/274, 25-26=-221/274, 24-25=-222/275, 23-24=-222/275, 22-23=-222/275, 21-22=-222/275, 20-21=-222/275, 19-20=-222/275, 18-19=-222/275
 WEBS 2-27=-219/286, 15-18=-172/253

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 24, 21 except (jt=lb) 28=178, 23=107, 25=170, 26=198, 27=292, 22=103, 20=167, 19=201, 18=273.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20,2020

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

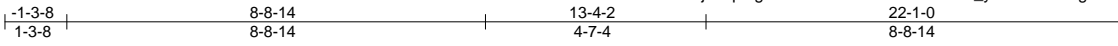
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339640
MASTER	B10	Hip	1	1	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

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ID:zv7Fc4jHuqlrogucND5EIUzsWFO-hdPeKxr?_yl91SFQodPgWRhewOxITdjeRvF9ezjDlk



Scale: 1/4"=1'

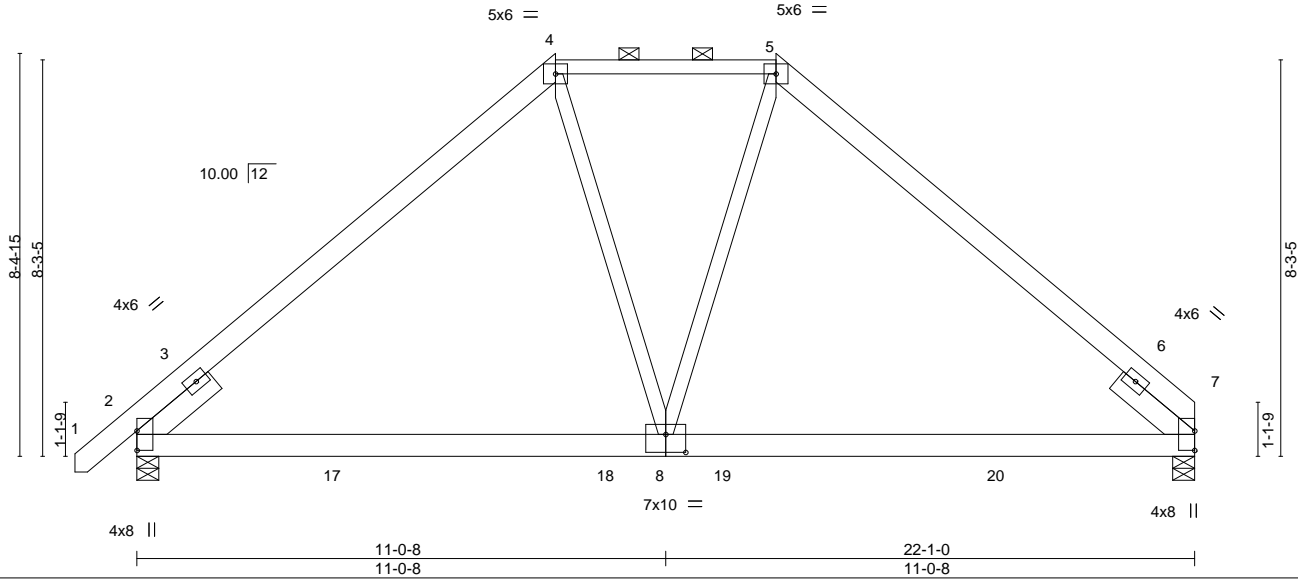


Plate Offsets (X,Y)--	[2:Edge,0-0-0], [7:Edge,0-0-0], [8:0-5-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.51	Vert(LL)	-0.09	8-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.61	Vert(CT)	-0.16	8-11	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	-0.05	2	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.15	8-11	>999	Weight: 150 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 (5-7-4 max.): 4-5.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	
SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12	

REACTIONS. (lb/size) 7=882/0-5-8, 2=955/0-5-8
 Max Horz 2=353(LC 11)
 Max Uplift 7=-338(LC 13), 2=-395(LC 12)
 Max Grav 7=943(LC 2), 2=1004(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1002/551, 4-5=-919/609, 5-7=-992/550
 BOT CHORD 2-8=-245/746, 7-8=-147/683
 WEBS 4-8=-108/403, 5-8=-107/399

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=338, 2=395.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20,2020

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ENGINEERING BY
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 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339641
MASTER	B11	Hip	1	1	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

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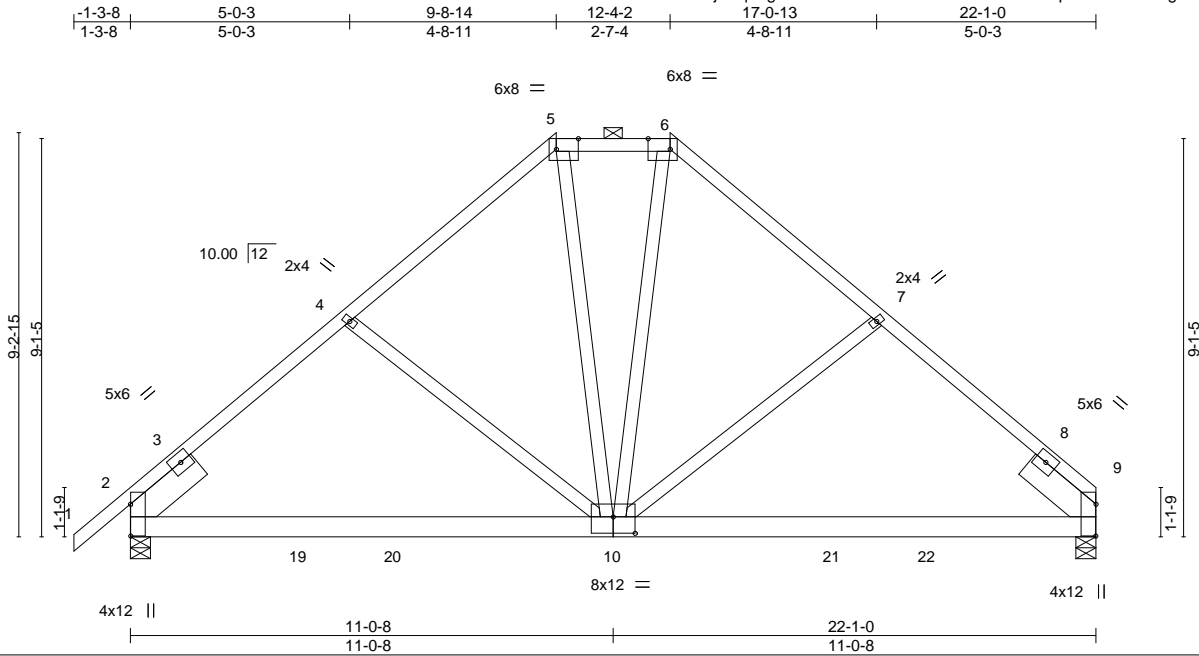


Plate Offsets (X,Y)--	[2:0-8-12,0-0-1], [5:0-6-1,Edge], [6:0-6-1,Edge], [9:0-8-12,0-0-1], [10:0-6-0,0-4-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.34	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.44	Vert(LL) -0.06 10-13 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.47	Vert(CT) -0.12 10-13 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) -0.02 9 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.04 10-13 >999 240	Weight: 155 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 (6-0-0 max.): 5-6.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
SLIDER Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12	

REACTIONS. (lb/size) 9=881/0-5-8, 2=963/0-5-8
 Max Horz 2=389(LC 11)
 Max Uplift 9=346(LC 13), 2=409(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1062/610, 4-5=-965/569, 5-6=-874/571, 6-7=-965/570, 7-9=-1061/612
 BOT CHORD 2-10=-408/859, 9-10=-307/713
 WEBS 4-10=-424/403, 5-10=-180/377, 6-10=-179/376, 7-10=-423/407

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 9=346, 2=409.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20, 2020

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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339642
MASTER	B12	Hip	1	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:03 2020 Page 1

ID:zV7Fc4jHuqIrogucND5EIUzswFoaOf9AJuV2BFaW3ZB1TucgHslm?MshC6IY3tIPzjDlG

Job Reference (optional)

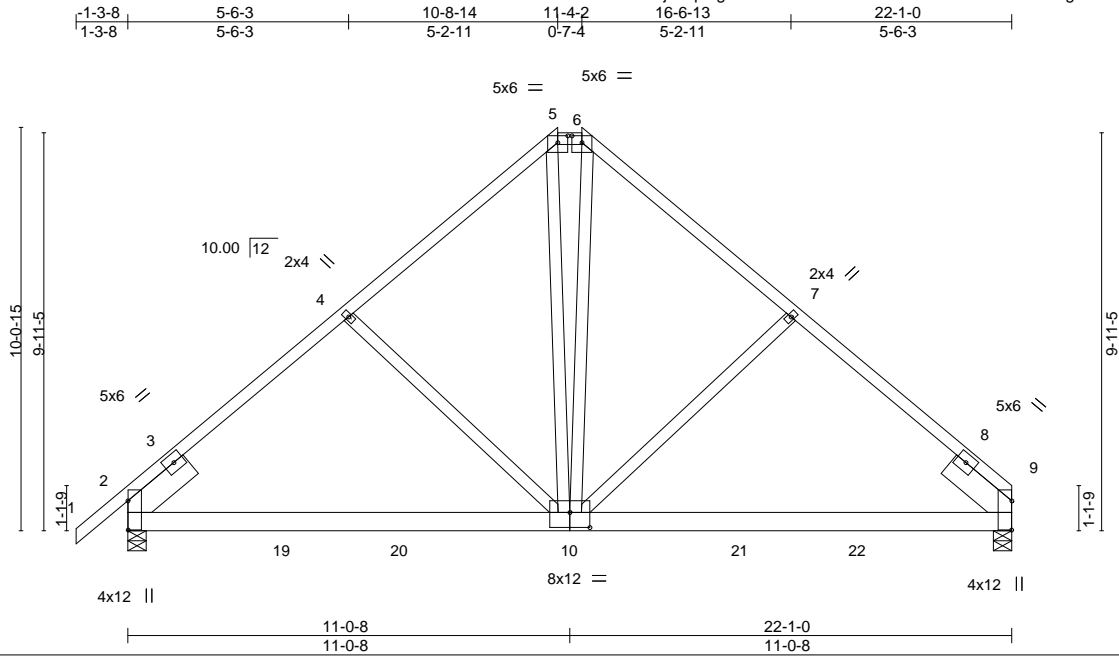


Plate Offsets (X,Y)--	[2:0-8-12,0-0-1], [5:0-3-0,0-2-1], [6:0-3-0,0-2-1], [9:0-8-12,0-0-1], [10:0-6-0,0-4-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.40	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.45	Vert(LL) -0.06 10-13 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.49	Vert(CT) -0.12 10-13 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) -0.02 9 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.05 10-13 >999 240	Weight: 158 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 (5-9-3 max.): 5-6.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
SLIDER Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12	

REACTIONS. (lb/size) 9=881/0-5-8, 2=963/0-5-8
 Max Horz 2=426(LC 11)
 Max Uplift 9=352(LC 13), 2=415(LC 12)
 Max Grav 9=894(LC 20), 2=976(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1091/597, 4-5=-1024/585, 5-6=-890/581, 6-7=-1024/586, 7-9=-1090/598
 BOT CHORD 2-10=-419/921, 9-10=-284/727
 WEBS 4-10=-457/441, 5-10=-285/443, 6-10=-286/446, 7-10=-456/444

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=352, 2=415.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

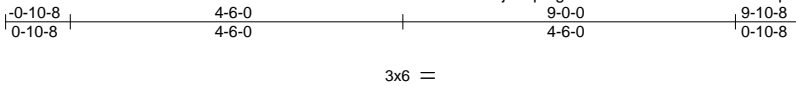


February 20, 2020

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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339643
MASTER	C01	GABLE	2	1		
Builders FirstSource, Sumter, SC - 29153,						Job Reference (optional)

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:04 2020 Page 1
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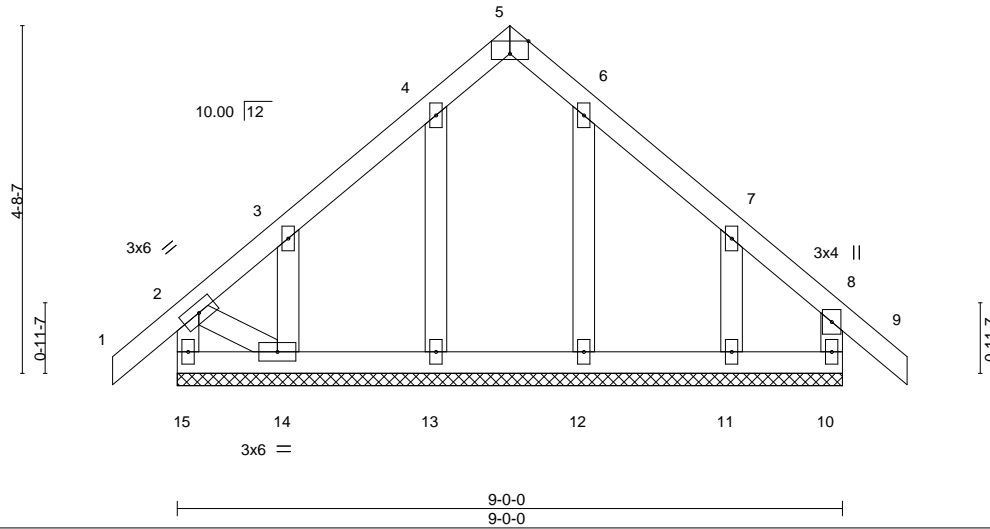


Plate Offsets (X,Y)--	[5:0-3-0,Edge]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.26	Vert(LL)	-0.00	9	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	-0.00	9	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 53 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 14-15.

REACTIONS. All bearings 9-0-0.
 (lb) - Max Horz 15=-247(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 10, 13, 12 except 15=-105(LC 8), 14=-271(LC 12), 11=-293(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 15, 10, 13, 14, 12, 11

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-14=-258/212, 7-11=-287/278

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 13, 12 except (jt=lb) 15=105, 14=271, 11=293.



February 20,2020

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

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



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339644
MASTER	C02	GABLE	1	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:07 2020 Page 1
 ID:zv7Fc4jHuqlrogucND5EIUzsWFO-T9uf0gx06PI0?gtzGJZYr711idnYd6XuThrgRAzjDlc



3x6 =

Scale: 3/8"=1'

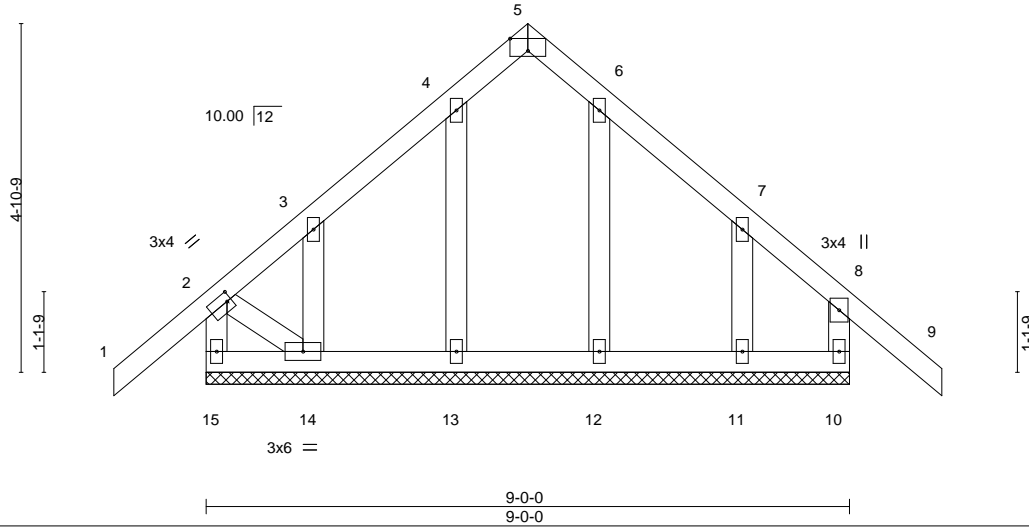


Plate Offsets (X,Y)--	[2:0-0-12,0-1-8], [5:0-3-0,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.40	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.14	Vert(LL) -0.01 9 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.08	Vert(CT) -0.01 9 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 10 n/a n/a		
	Code IRC2015/TPI2014			Weight: 56 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 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 9-0-0.
 (lb) - Max Horz 15=274(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 10, 13, 12 except 15=146(LC 8), 14=265(LC 12), 11=282(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 15, 10, 13, 14, 12, 11

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-14=280/190, 7-11=305/264

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 13, 12 except (jt=lb) 15=146, 14=265, 11=282.



February 20,2020

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

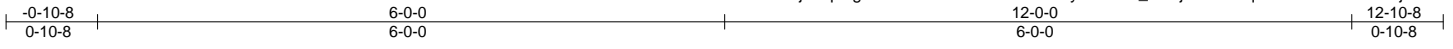
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339645
MASTER	CP01	GABLE	3	1		
Builders FirstSource, Sumter, SC - 29153,						Job Reference (optional)

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:09 2020 Page 1
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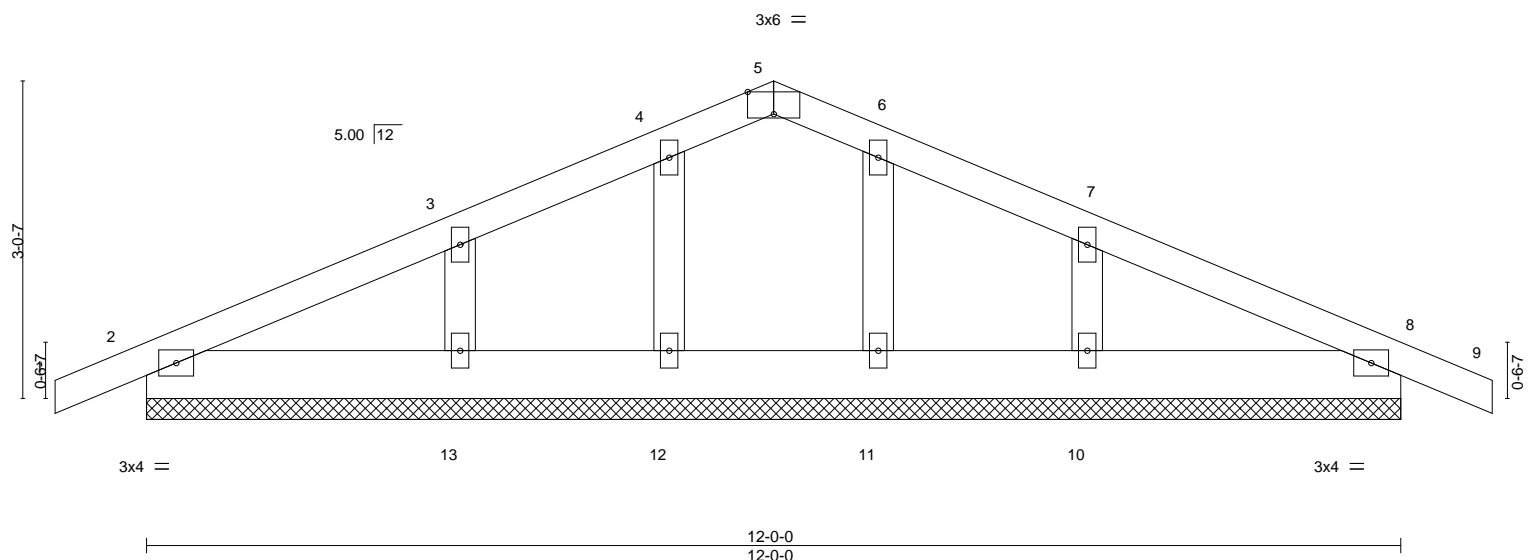


Plate Offsets (X,Y)--	[5:0-3-0,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	0.00	8	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	0.00	8	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 59 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 12-0-0.
 (lb) - Max Horz 2=86(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 12, 11 except 13=180(LC 12), 10=181(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 11, 10

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-13=161/251, 7-10=161/251

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 12, 11 except (jt=lb) 13=180, 10=181.



February 20, 2020

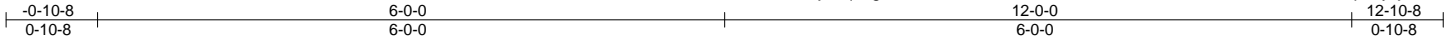
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339646
MASTER	CP02	Common	15	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:11 2020 Page 1

ID:zV7Fc4jHuqlogucND5EIUzsWFo-Lw8Ar2_WAeGSTIAkV8dU?zBieE80Zv2UOJpuayzjDIY



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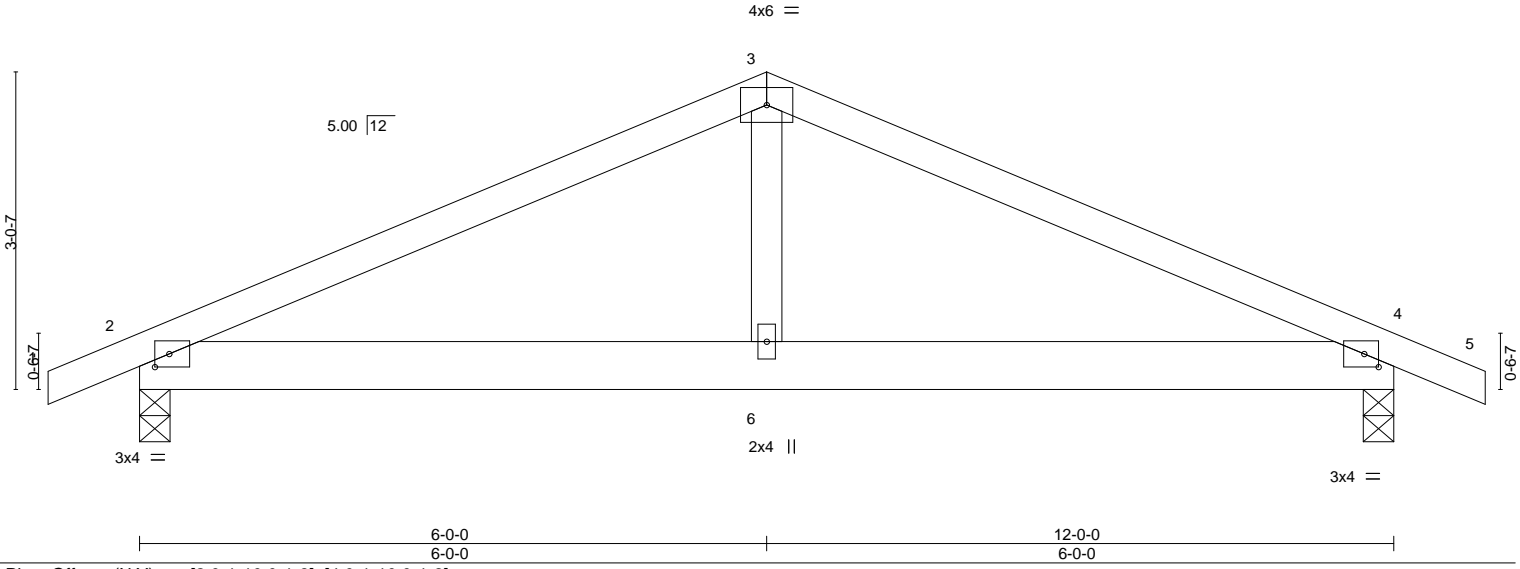


Plate Offsets (X,Y)-- [2:0-1-10,0-1-8], [4:0-1-10,0-1-8]

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 0.47	Vert(LL)	0.05	6-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.24	Vert(CT)	-0.03	6-9	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	-0.01	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS						
								Weight: 54 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	

REACTIONS. (lb/size) 2=533/0-3-8, 4=533/0-3-8
 Max Horz 2=86(LC 12)
 Max Uplift 2=-402(LC 8), 4=-402(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-734/1346, 3-4=-734/1346
 BOT CHORD 2-6=-1090/620, 4-6=-1090/620
 WEBS 3-6=-611/278

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCCL=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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=402, 4=402.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 20,2020

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

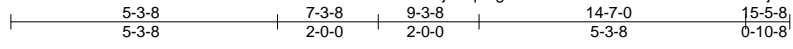
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339647
MASTER	D01	Common Structural Gable	4	1		

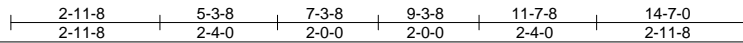
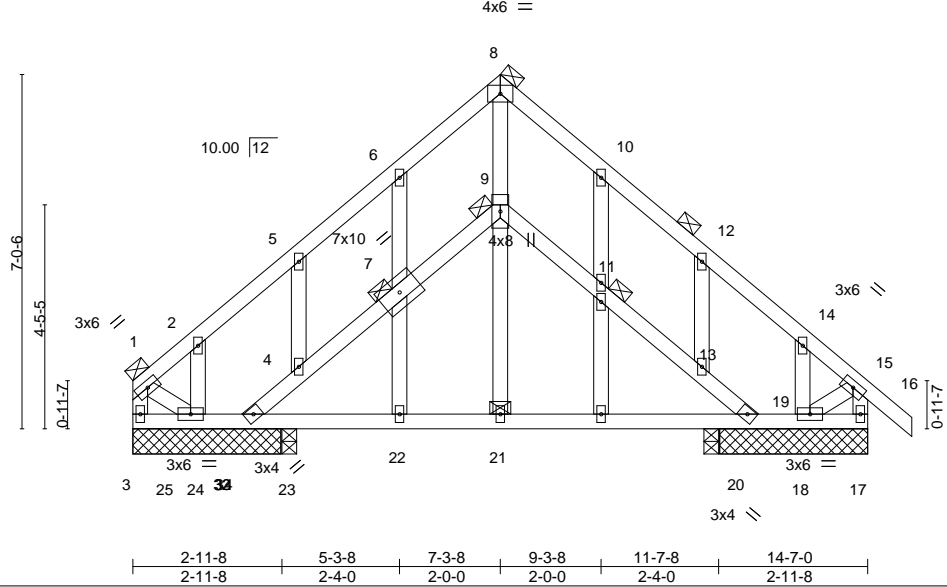
Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:13 2020 Page 1

ID:zV7Fc4jHuqIrogucND5EIUzsWfo-HJfXGk?nhFWAjbK6dZgy4OH7o1qN1qQnsdl?fqzjDIW



Scale = 1:45.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.17	Vert(LL)	-0.00	27	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	-0.01	3-27	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	17	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.00	27	>999		
								Weight: 111 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except:
 1 Row at midpt 8-15
 6-0-0 oc bracing: 3-4
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
 1 Row at midpt 17-27
 JOINTS 1 Brace at Jt(s): 1, 8, 9, 7, 11

REACTIONS. All bearings 2-11-4 except (jt=length) 23=0-3-8, 20=0-3-8.
 (lb) - Max Horz 3=188(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 25, 17, 3, 19, 18, 20, 19 except 24=261(LC 12), 23=205(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 25, 17, 3, 19, 24, 18, 20 except 23=296(LC 19)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCCL=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 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 17, 3, 19, 18, 20, 19 except (jt=lb) 24=261, 23=205.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20, 2020

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339648
MASTER	D02	Common Girder	4	2		

Builders FirstSource, Sumter, SC - 29153,

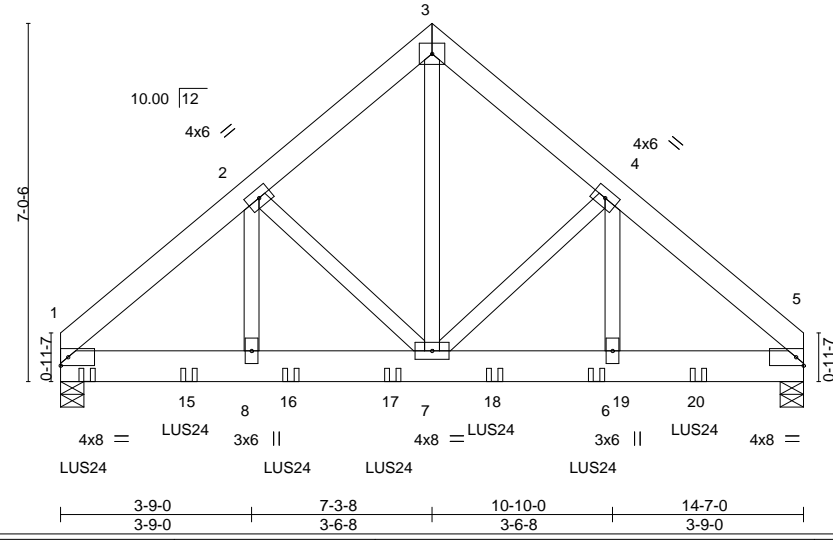
8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:15 2020 Page 1

ID:zV7Fc4jHuqlrogucND5EIUzsWfo-EiNhP11DtmyUVk_iQ9pMU5rXDvhG3Jxn5jjzDIU



5x6 =

Scale = 1:45.2



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 0.12	Vert(LL) -0.02	6-7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT) -0.03	6-7	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.22	Horz(CT) 0.01	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL) 0.02	6-7	>999		
							Weight: 244 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	

REACTIONS. (lb/size) 1=2127/0-5-8, 5=1992/0-5-8
 Max Horz 1=-270(LC 4)
 Max Uplift 1=-1176(LC 8), 5=-1100(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2185/1212, 2-3=-1669/1053, 3-4=-1668/1052, 4-5=-2344/1309
 BOT CHORD 1-8=-972/1605, 7-8=-972/1605, 6-7=-919/1726, 5-6=-919/1726
 WEBS 3-7=-1138/1812, 4-7=-673/590, 4-6=-416/741, 2-7=-504/482, 2-8=-273/517

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1176, 5=1100.
 - 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 0-6-4 from the left end to 12-6-4 to connect truss(es) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-5=-60, 9-12=-20
Concentrated Loads (lb)
Vert: 11=-376(B) 15=-371(B) 16=-371(B) 17=-371(B) 18=-488(B) 19=-488(B) 20=-488(B)



February 20,2020

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ENGINEERING BY
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 A MiTek Affiliate

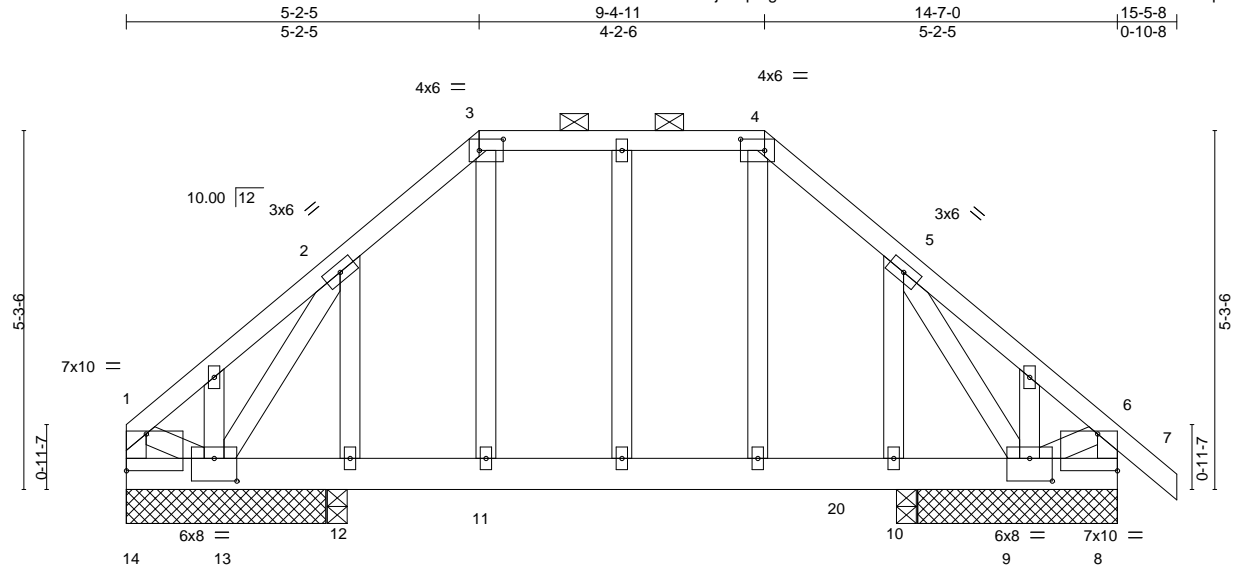
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339649
MASTER	D03	Hip Structural Gable	2	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:17 2020 Page 1

ID:zV7Fc4jHuqlrogucND5EIUzsWfo-A4VR653HIU0bDDdusPkuFERIOFBRzccqMnFGCobzjDIS



Scale = 1:33.9

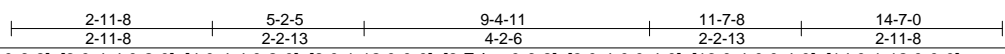


Plate Offsets (X,Y)--	[1:Edge,0-6-8], [3:0-4-4,0-2-0], [4:0-4-4,0-2-0], [8:0-1-12,0-0-0], [8:Edge,0-6-8], [9:0-4-0,0-4-0], [13:0-4-0,0-4-0], [14:0-1-12,0-0-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.32	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.23	Vert(LL) -0.03 10-11 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.15	Vert(CT) -0.04 10-11 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) -0.00 8 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.01 10-11 >999 240	Weight: 109 lb	FT = 20%

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

REACTIONS. All bearings 2-11-4 except (jt=length) 12=0-3-8, 10=0-3-8.
 (lb) - Max Horz 14=-257(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 12 except 14=-377(LC 10), 8=-266(LC 9), 13=-678(LC 12), 9=-727(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) except 14=434(LC 21), 8=501(LC 22), 13=496(LC 10), 9=415(LC 11), 12=266(LC 22), 10=384(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-395/437, 2-3=-359/302, 3-4=-273/294, 4-5=-352/309, 5-6=-428/293, 1-14=-381/393, 6-8=-423/269
 BOT CHORD 13-14=-239/258, 12-13=-161/294, 11-12=-161/294, 10-11=-159/295, 9-10=-159/295
 WEBS 2-13=-591/515, 5-9=-519/520, 1-13=-424/495, 6-9=-362/464

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 14=377, 8=266, 13=678, 9=727.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20,2020

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

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

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339650
MASTER	D04	Hip Girder	2	2	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153, 8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:19 2020 Page 1
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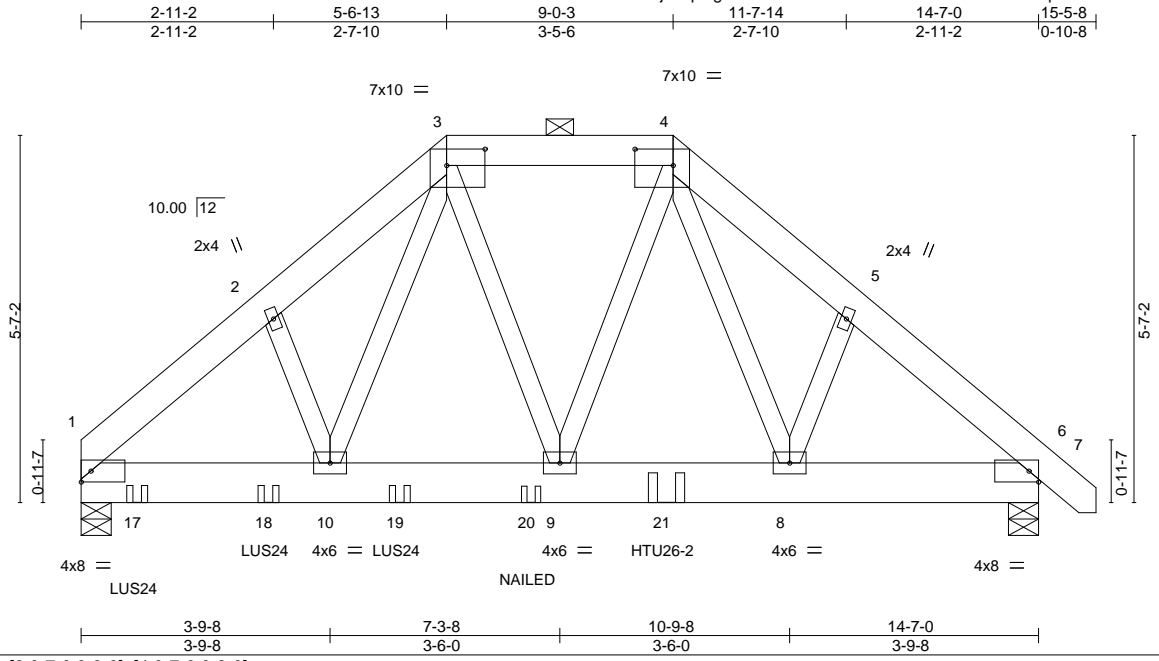


Plate Offsets (X,Y)--	[3:0-7-0,0-3-0], [4:0-7-0,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	0.02	8-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	-0.02	8-9	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.08	Horz(CT)	-0.01	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 253 lb	FT = 20%

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

REACTIONS. (lb/size) 1=1760/0-5-8, 6=1277/0-5-8
 Max Horz 1=-227(LC 4)
 Max Uplift 1=-1188(LC 8), 6=-951(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1801/1273, 2-3=-1723/1376, 3-4=-1202/1082, 4-5=-1498/1323, 5-6=-1589/1232
 BOT CHORD 1-10=-991/1320, 9-10=-843/1093, 8-9=-773/1036, 6-8=-821/1140
 WEBS 2-10=-205/277, 3-10=-456/613, 3-9=-481/461, 4-9=-515/553, 4-8=-380/397,
 5-8=-216/301

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRR (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1188, 6=951.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or 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 0-10-4 from the left end to 4-10-4 to connect truss(es) to back face of bottom chord.
- Use Simpson Strong-Tie HTU26-2 (20-10d Girder, 14-10d Truss, Single Ply Girder) or equivalent at 8-11-0 from the left end to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.



February 20,2020

LOAD CASE(S) Standard
 Continued on page 2

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	I40339650
MASTER	D04	Hip Girder	2	2	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:19 2020 Page 2
 ID:zV7Fc4jHuqlrogucND5EIUzsWfo-6TdCXn4YH5GJRWnGzqmMKfW8tSuBRXZfEYlJsUzjDIQ

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-4=-60, 4-7=-60, 11-14=-20
 Concentrated Loads (lb)
 Vert: 17=-372(B) 18=-382(B) 19=-308(B) 20=-129(B) 21=-634(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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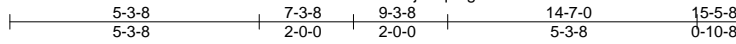
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339651
MASTER	D05	COMMON STRUCTURAL GA	2	1		

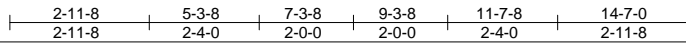
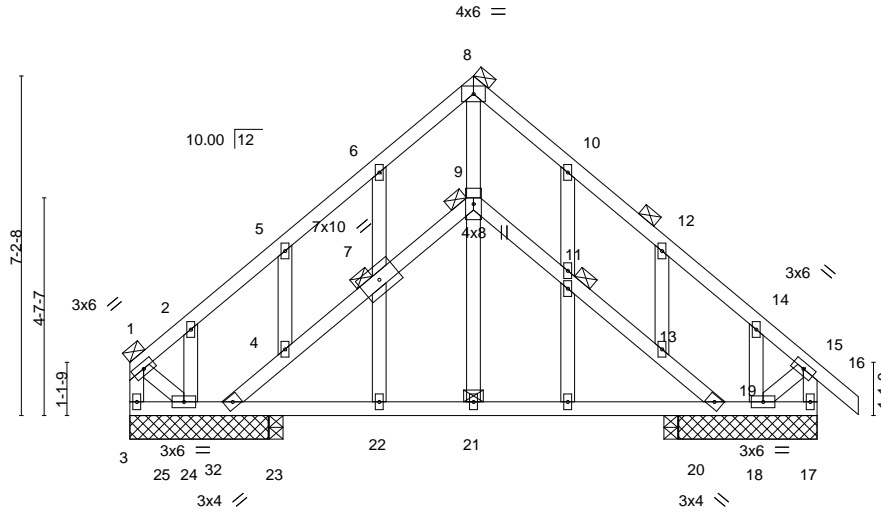
Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:20 2020 Page 1

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Scale = 1:48.9



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 0.16	Vert(LL)	-0.00	27	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.22	Vert(CT)	-0.00	27	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	17	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.00	27	>999		
								Weight: 114 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. Except:
BOT CHORD 2x4 SP No.2	1 Row at midpt 8-15
WEBS 2x4 SP No.3	6-0-0 oc bracing: 3-4
OTHERS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
	1 Row at midpt 17-27
	JOINTS 1 Brace at Jt(s): 1, 8, 9, 7, 11

REACTIONS. All bearings 2-11-4 except (jt=length) 23=0-3-8, 20=0-3-8.
 (lb) - Max Horz 3=201(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 17, 3, 19, 18, 20, 19 except 25=-106(LC 10), 24=-328(LC 12), 23=-177(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 25, 17, 3, 19, 18, 23, 20 except 24=347(LC 19)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 3, 19, 18, 20, 19 except (jt=lb) 25=106, 24=328, 23=177.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20, 2020

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818 Soundside Road
 Edenton, NC 27932

Job MASTER	Truss D06	Truss Type Common Girder	Qty 2	Ply 2	A&G/Cedar/ Job Reference (optional)	140339652
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:22 2020 Page 1

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5x6 =

Scale = 1:46.3

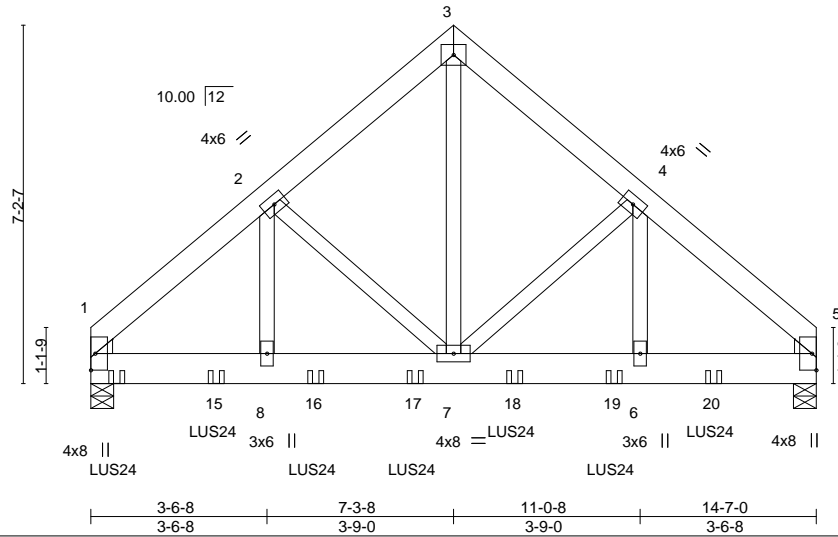


Plate Offsets (X,Y)-- [1:0-0-7,0-0-8], [1:0-0-14,0-3-13], [5:0-0-7,0-0-8], [5:0-0-14,0-3-13]

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	6-7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	-0.03	6-7	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.22	Horz(CT)	0.01	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS	Wind(LL)	0.02	6-7	>999		
								Weight: 247 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x8 SP DSS
 WEBS 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.2, Right: 2x4 SP No.2

BRACING-

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

REACTIONS.

(lb/size) 1=2124/0-5-8, 5=1996/0-5-8
 Max Horz 1=-270(LC 4)
 Max Uplift 1=-1173(LC 8), 5=-1100(LC 9)

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

TOP CHORD 1-2=-2101/1174, 2-3=-1646/1041, 3-4=-1644/1040, 4-5=-2247/1263
 BOT CHORD 1-8=-946/1535, 7-8=-946/1535, 6-7=-880/1644, 5-6=-880/1644
 WEBS 3-7=-1105/1761, 4-7=-573/535, 4-6=-381/646, 2-7=-425/440, 2-8=-252/445

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1173, 5=1100.
- 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 0-6-4 from the left end to 12-6-4 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-5=-60, 9-12=-20



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Continued on page 2

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 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	I40339652
MASTER	D06	Common Girder	2	2	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:22 2020 Page 2
 ID:zV7Fc4jHuqlrogucND5EIUzsWfo-W2IK9p6Qa0euI_WreyK3yH8gKgwhes55wW_zTpzjDIN

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 11=-376(B) 15=-371(B) 16=-371(B) 17=-371(B) 18=-488(B) 19=-488(B) 20=-488(B)

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

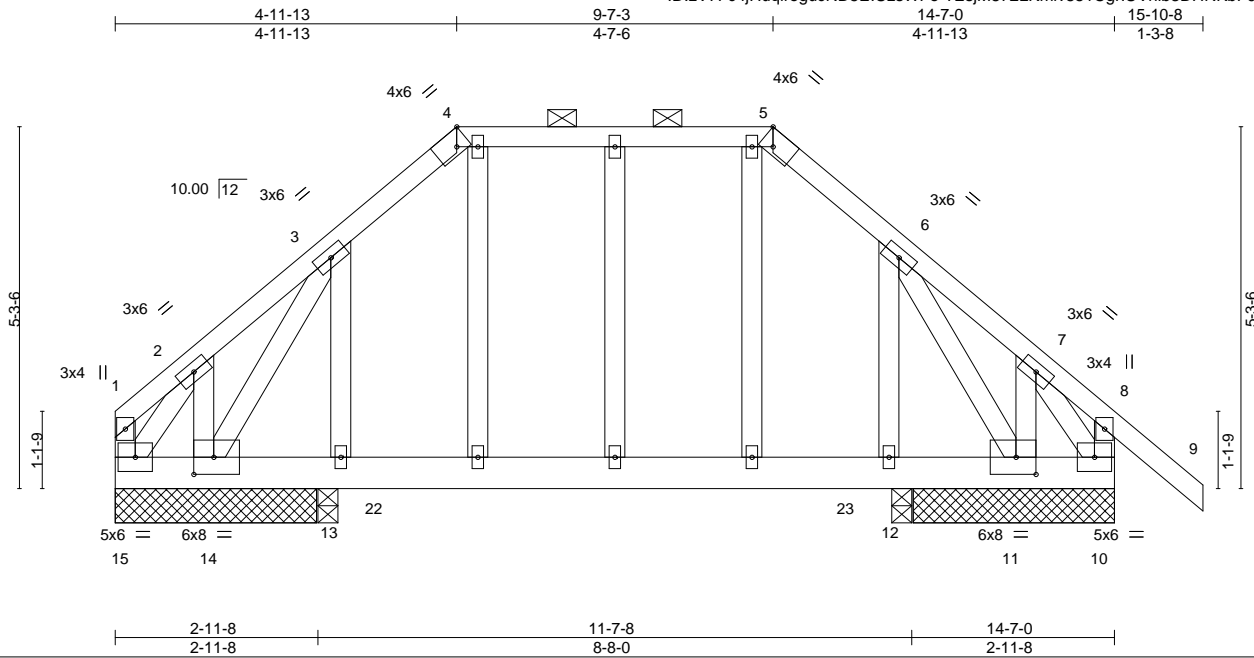
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 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339653
MASTER	D07	Hip Structural Gable	1	1		
Builders FirstSource, Sumter, SC - 29153,						Job Reference (optional)

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:23 2020 Page 1
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Scale = 1:33.6

Plate Offsets (X,Y)--	[4:0-2-4,Edge], [5:Edge,0-2-11], [11:0-3-8,0-3-0], [14:0-3-8,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.66	Vert(LL)	-0.04 12-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.27	Vert(CT)	-0.06 12-13	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	-0.00 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	-0.00 14-15	>999	240	Weight: 114 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (6-0-0 max.): 4-5.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 2-11-4 except (jt=length) 13=0-3-8, 12=0-3-8.
 (lb) - Max Horz 15=-270(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) except 14=-709(LC 12), 11=-678(LC 13), 15=-457(LC 8), 10=-459(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) except 14=559(LC 10), 11=525(LC 11), 15=475(LC 21), 10=501(LC 22), 13=449(LC 18), 12=451(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-329/309, 2-3=-363/468, 3-4=-354/365, 4-5=-296/353, 5-6=-353/365, 6-7=-368/461, 7-8=-274/290
 BOT CHORD 13-14=-220/275, 12-13=-220/275, 11-12=-220/275, 10-11=-385/329
 WEBS 3-14=-424/459, 7-10=-263/171, 6-11=-401/446

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 709 lb uplift at joint 14, 678 lb uplift at joint 11, 457 lb uplift at joint 15 and 459 lb uplift at joint 10.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



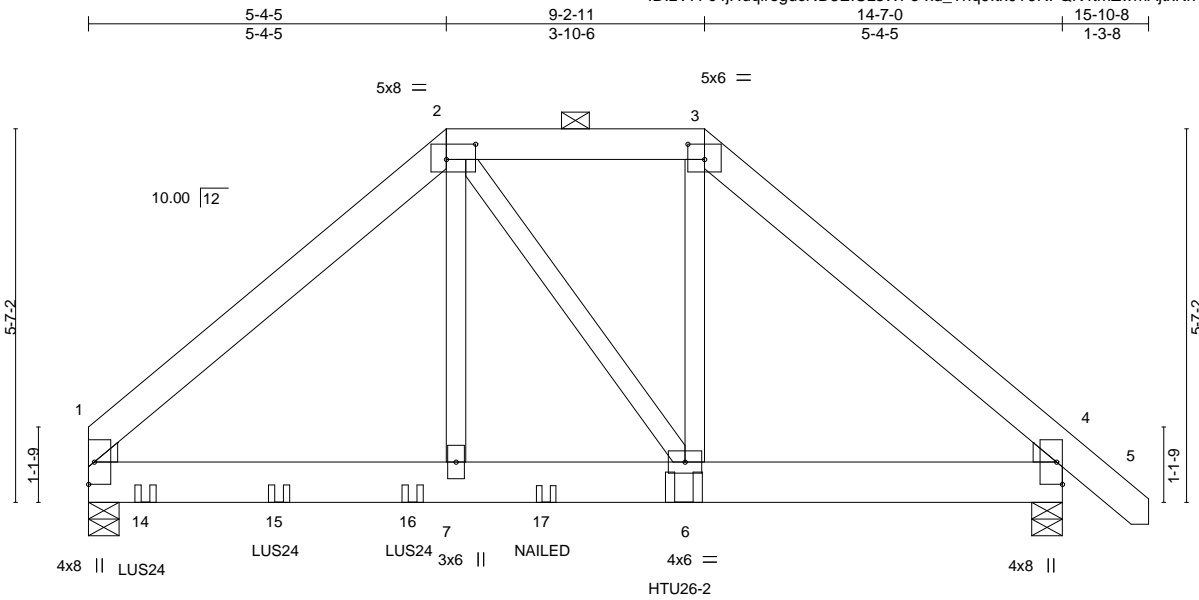
February 20,2020

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job MASTER	Truss D08	Truss Type Hip Girder	Qty 1	Ply 2	A&G/Cedar/ Job Reference (optional)	140339654
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:25 2020 Page 1
ID:zV7Fc4jHuqlrogucND5EIzsfWfo-xd_Tnq9ltx0T9RFQK4tmZwmAjtxKrFiycUCd48zDIK



Scale = 1:34.5

Plate Offsets (X,Y)--	[1:0-0-14,0-3-13], [1:0-0-7,0-0-8], [2:0-5-4,0-2-12], [3:0-3-0,0-2-12], [4:0-0-7,0-0-8], [4:0-0-14,0-3-13]
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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)	0.02	6-7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	-0.02	7-13	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.10	Horz(CT)	-0.01	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						
								Weight: 230 lb	FT = 20%

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

REACTIONS.	(lb/size)
	4=1328/0-5-8, 1=1759/0-5-8
	Max Horz 1=-230(LC 30)
	Max Uplift 4=-1012(LC 9), 1=-1187(LC 8)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-1591/1166, 2-3=-1099/1066, 3-4=-1531/1228
BOT CHORD	1-7=-877/1138, 6-7=-893/1161, 4-6=-827/1079
WEBS	2-7=-565/794, 2-6=-228/267, 3-6=-696/721

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1012 lb uplift at joint 4 and 1187 lb uplift at joint 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or 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 0-10-4 from the left end to 4-10-4 to connect truss(es) to back face of bottom chord.
 - Use Simpson Strong-Tie HTU26-2 (20-10d Girder, 14-10d Truss, Single Ply Girder) or equivalent at 8-11-0 from the left end to connect truss(es) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.



February 20,2020

LOAD CASE(S) Standard

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	I40339654
MASTER	D08	Hip Girder	1	2	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

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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: 1-2=-60, 2-3=-60, 3-5=-60, 8-11=-20
- Concentrated Loads (lb)
 - Vert: 6=-656(B) 14=-373(B) 15=-396(B) 16=-262(B) 17=-164(B)

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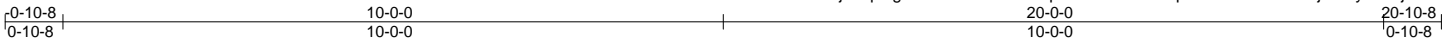


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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339655
MASTER	G01	GABLE	2	1		

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8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:26 2020 Page 1
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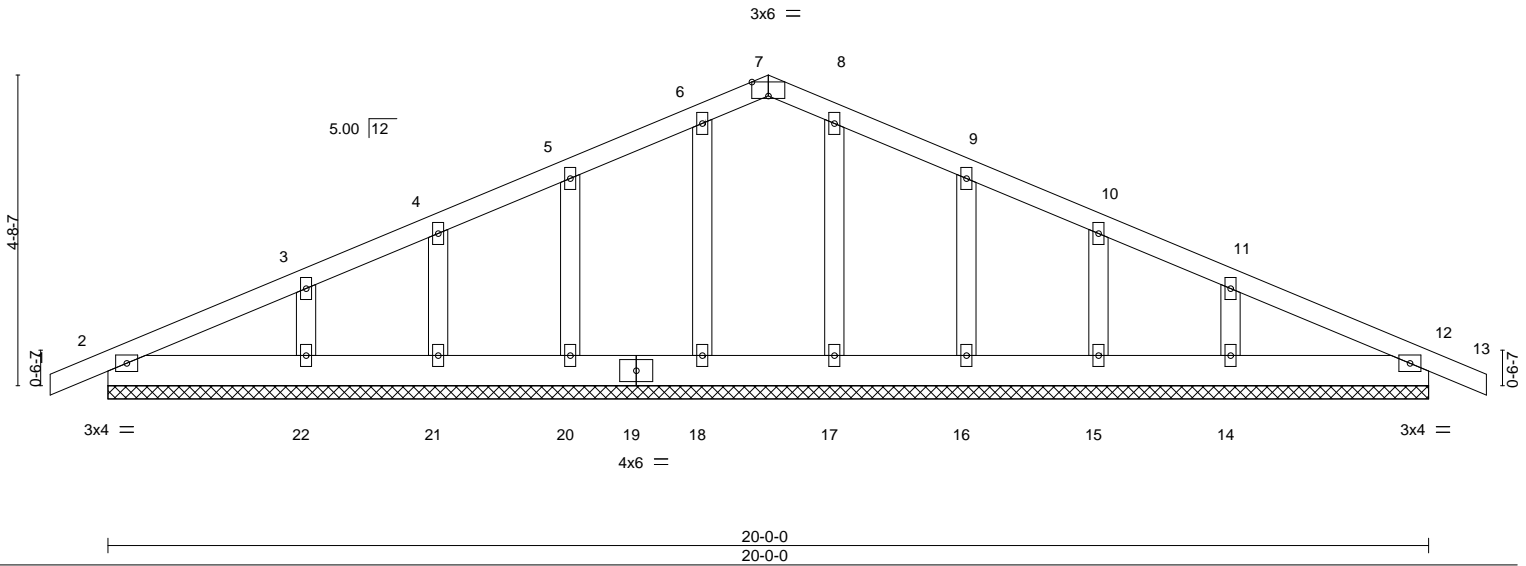


Plate Offsets (X,Y)--	[7:0-3-0,Edge]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	0.00	12	n/r	120
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	0.00	12	n/r	120
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	12	n/a	n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					
								PLATES
								MT20
								GRIP
								244/190
								Weight: 110 lb
								FT = 20%

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

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

REACTIONS. All bearings 20-0-0.
 (lb) - Max Horz 2=-136(LC 17)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 18, 21, 17, 15, 12 except 20=-134(LC 12), 22=-177(LC 12),
 16=-137(LC 13), 14=-175(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 18, 20, 21, 22, 17, 16, 15, 14, 12

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 18, 21, 17, 15, 12 except (jt=lb) 20=134, 22=177, 16=137, 14=175.



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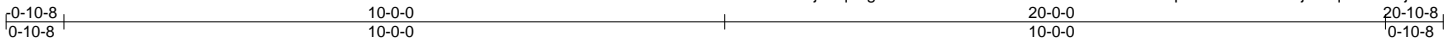
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339656
MASTER	G02	Common	14	1		

Builders FirstSource, Sumter, SC - 29153,

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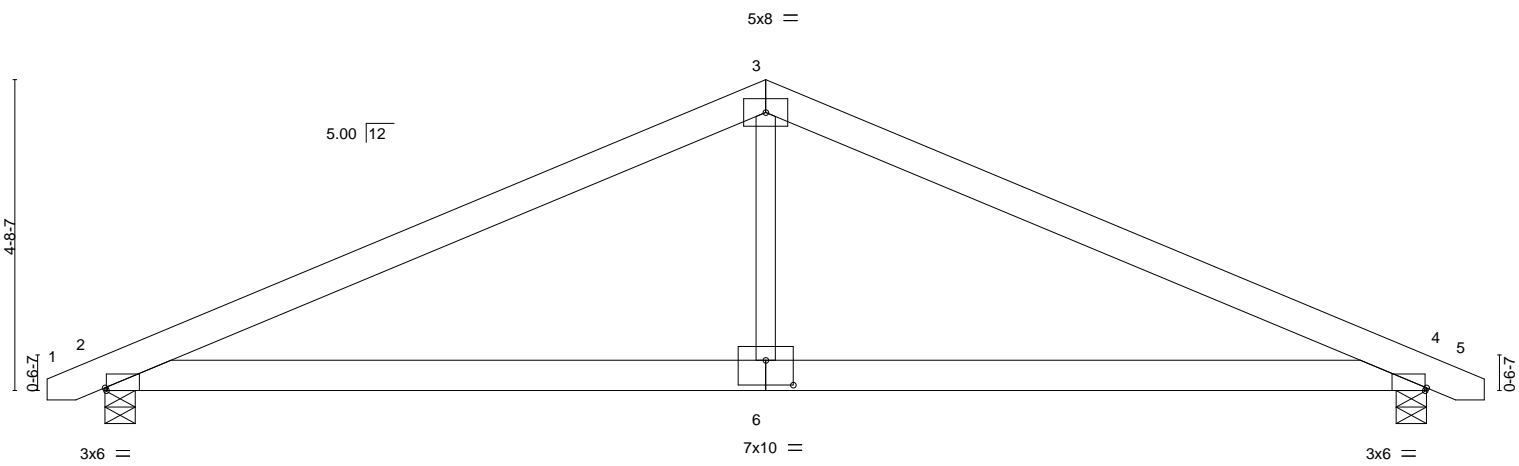


Plate Offsets (X,Y)--	[2:0-0-4,Edge], [4:0-0-4,Edge], [6:0-5-0,0-4-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.47	Vert(LL) -0.08 6-12 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.49	Vert(CT) -0.16 6-9 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.17	Horz(CT) 0.02 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.14 6-9 >999 240	Weight: 108 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=840/0-5-8, 4=839/0-5-8
 Max Horz 2=133(LC 16)
 Max Uplift 2=-397(LC 12), 4=-397(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1279/851, 3-4=-1279/851
 BOT CHORD 2-6=-584/1119, 4-6=-584/1119
 WEBS 3-6=0/453

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=397, 4=397.
 - 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.



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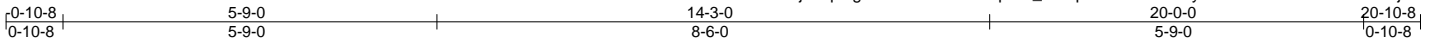
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339657
MASTER	G03	Hip Girder	1	2		

Builders FirstSource, Sumter, SC - 29153,

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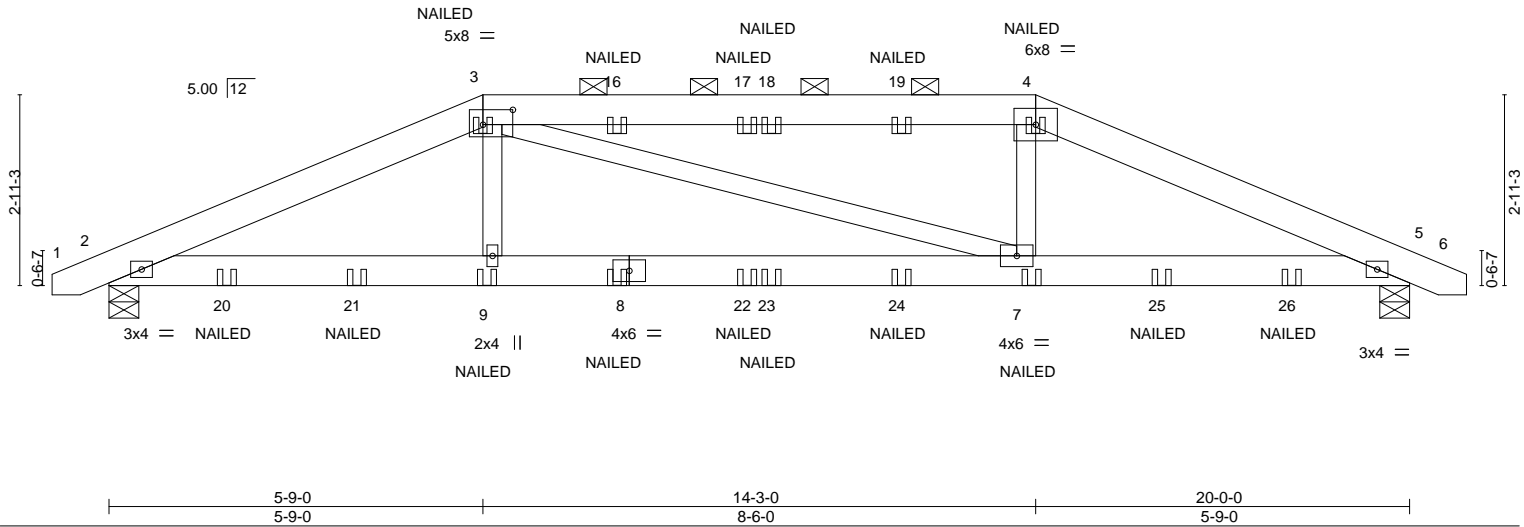


Plate Offsets (X,Y)--	[3:0-5-8,0-2-12]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.39	Vert(LL)	0.07	7-9	>999
TCDL 10.0	Lumber DOL	1.15	BC 0.23	Vert(CT)	-0.06	7-9	>999
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.04	Horz(CT)	-0.02	5	n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS				
							PLATES
							MT20
							GRIP
							244/190
							Weight: 238 lb
							FT = 20%

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

REACTIONS. (lb/size) 2=1002/0-5-8, 5=1002/0-5-8
 Max Horz 2=81(LC 12)
 Max Uplift 2=811(LC 8), 5=812(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1805/1618, 3-4=-1658/1558, 4-5=-1806/1619
 BOT CHORD 2-9=-1434/1643, 7-9=-1437/1657, 5-7=-1422/1644
 WEBS 3-9=-78/345, 4-7=-84/346

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=811, 5=812.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-4=-60, 4-6=-60, 10-13=-20



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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	Truss	Truss Type	Qty	Ply	A&G/Cedar/	I40339657
MASTER	G03	Hip Girder	1	2	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:29 2020 Page 2
 ID:zV7Fc4jHuqlrogucND5EIUzsWfo-pOD_dCCpwAXud3YBZwyikmxoHUHMn3b7X6ArDvzjDIG

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 3=-1(F) 4=-1(F) 8=-7(F) 9=-7(F) 7=-7(F) 16=-1(F) 17=-1(F) 18=-1(F) 19=-1(F) 20=-72(F) 21=-68(F) 22=-7(F) 23=-7(F) 24=-7(F) 25=-68(F) 26=-72(F)

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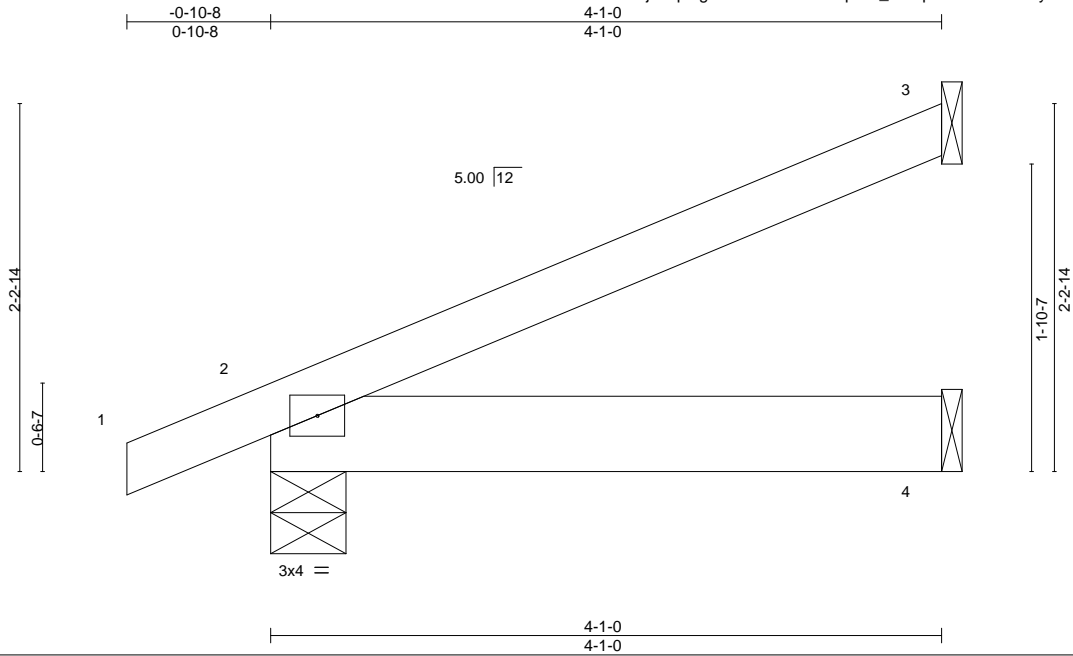


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339658
MASTER	J01	Jack-Open	8	1		
Builders FirstSource, Sumter, SC - 29153,						Job Reference (optional)

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:29 2020 Page 1

ID:zV7Fc4jHuqlrogucND5EIUzsWFO-pOD_dCCpwAXud3YBZwyikmrxKUIbn3C7X6ArDvzjDIG



Scale = 1:14.0

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 0.20	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	-0.01	4-7	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS						Weight: 18 lb	FT = 20%

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

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

REACTIONS. (lb/size) 3=90/Mechanical, 2=219/0-5-8, 4=65/Mechanical
Max Horz 2=138(LC 12)
Max Uplift 3=-100(LC 12), 2=-109(LC 12), 4=-15(LC 12)
Max Grav 3=90(LC 1), 2=219(LC 1), 4=84(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=100, 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.



February 20, 2020

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339659
MASTER	J02	Half Hip Girder	4	1		
Builders FirstSource, Sumter, SC - 29153,						8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:30 2020 Page 1
						ID:zV7Fc4jHuqrogucND5EIUzsWFO-HanMqYDRhTfIFC7N6eTxGzU1jueKWWdHmwwOILzjDIF
						Job Reference (optional)

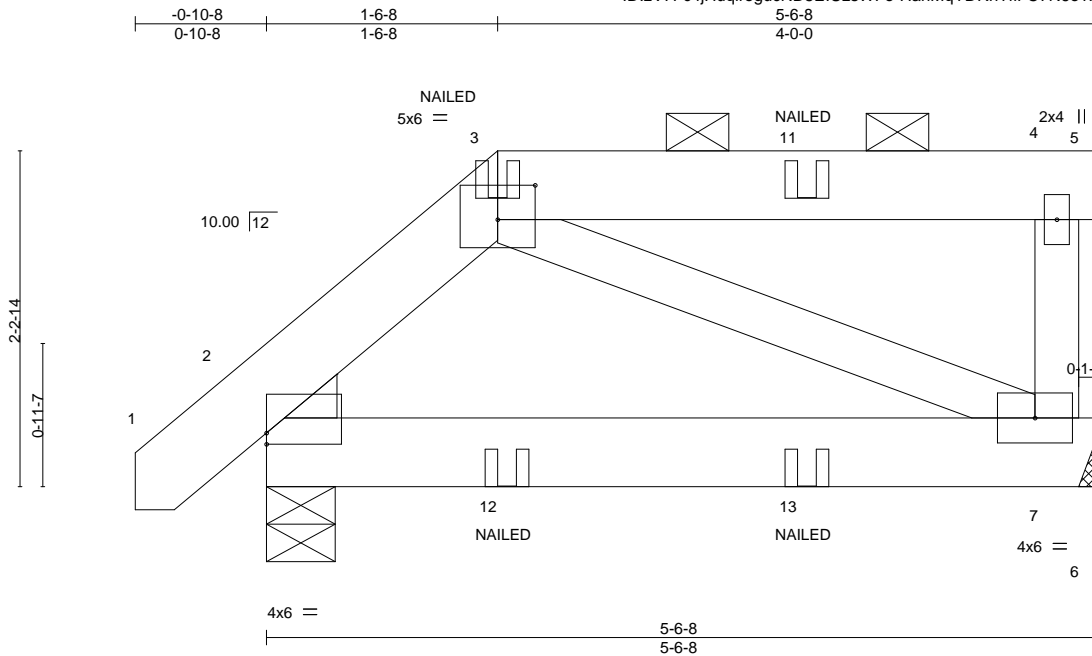


Plate Offsets (X,Y)--	[2:0-0-0,0-0-14], [3:0-3-0,0-2-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL) -0.01 7-10 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.18	Vert(CT) -0.02 7-10 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.05	Horz(CT) 0.00 2 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP	Wind(LL) 0.01 7-10 >999 240	Weight: 38 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-6-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-5.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
WEDGE	
Left: 2x4 SP No.3	

REACTIONS. (lb/size) 2=335/0-5-8, 7=293/Mechanical
 Max Horz 2=131(LC 8)
 Max Uplift 2=-189(LC 8), 7=-206(LC 5)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCdL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=189, 7=206.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 4-5=-20, 6-8=-20
Concentrated Loads (lb)
Vert: 3=-30(F) 11=-30(F) 12=-45(F) 13=-45(F)



February 20, 2020

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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339660
MASTER	J03	Half Hip	4	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:31 2020 Page 1
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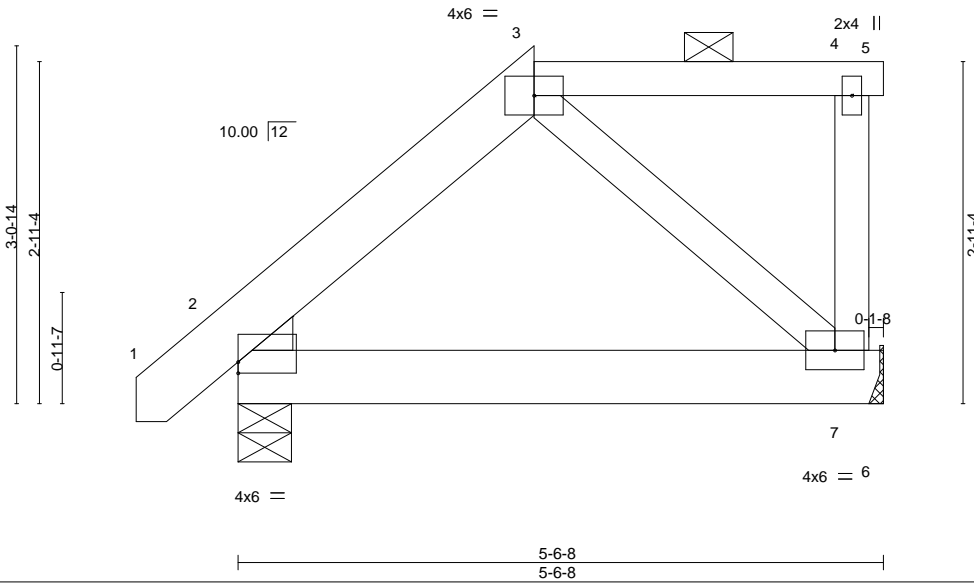


Plate Offsets (X,Y)--	[2:0-0-0,0-1-2]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL) -0.01 7-10 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.11	Vert(CT) -0.02 7-10 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.00 2 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.00 7-10 >999 240	Weight: 37 lb	FT = 20%

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

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

REACTIONS. (lb/size) 2=258/0-5-8, 7=219/Mechanical
 Max Horz 2=185(LC 12)
 Max Uplift 2=-93(LC 12), 7=-135(LC 9)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCFL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=135.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20,2020

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339661
MASTER	J04	Half Hip	4	1		

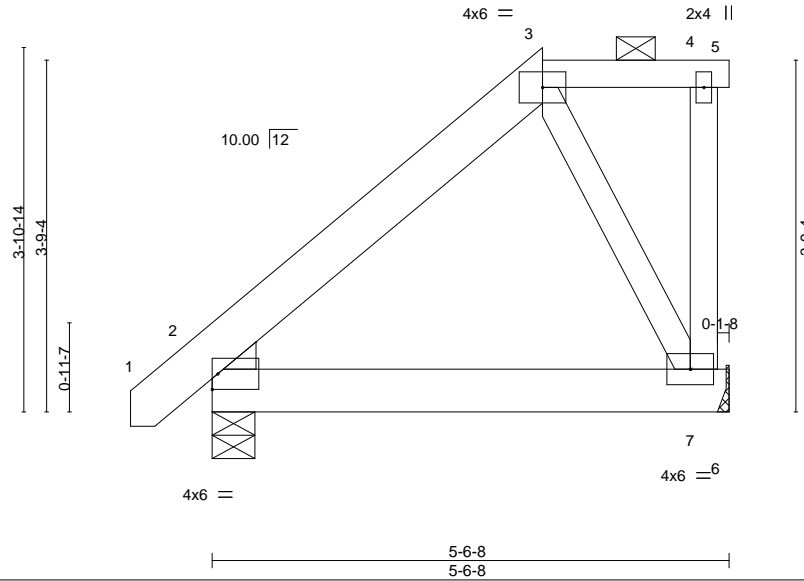
Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:32 2020 Page 1

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Scale = 1:24.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	-0.01 7-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	-0.02 7-10	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00 2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.01 7-10	>999	240		
								Weight: 40 lb	FT = 20%

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

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

REACTIONS. (lb/size) 2=258/0-5-8, 7=219/Mechanical
 Max Horz 2=243(LC 12)
 Max Uplift 2=-73(LC 12), 7=-151(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=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=151.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20,2020

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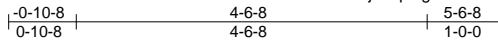


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339662
MASTER	J05	Half Hip	4	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:33 2020 Page 1
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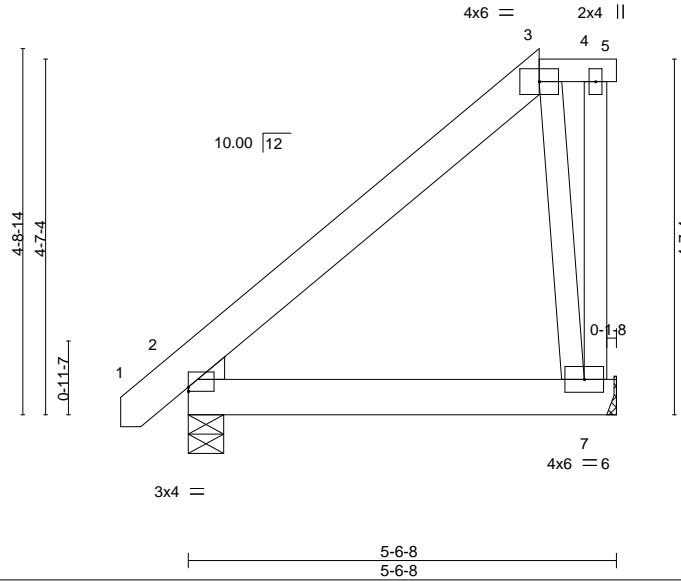


Plate Offsets (X,Y)--	[2:0-0-0,0-0-10]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.21	Vert(LL) 0.02 7-10 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.16	Vert(CT) -0.02 7-10 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(CT) -0.01 2 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS		Weight: 44 lb	FT = 20%

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

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

REACTIONS. (lb/size) 7=219/Mechanical, 2=258/0-5-8
 Max Horz 2=301(LC 12)
 Max Uplift 7=-216(LC 12), 2=-39(LC 2)
 Max Grav 7=229(LC 19), 2=258(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=216.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20,2020

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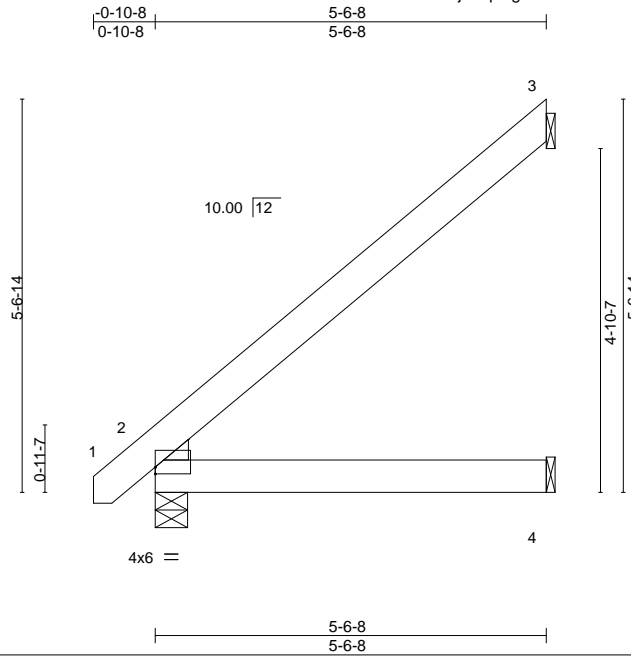


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339663
MASTER	J06	Jack-Open	70	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:33 2020 Page 1
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Scale = 1:32.7

Plate Offsets (X,Y)--	[2:0-0-0,0-1-2]				
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 0.30	Vert(LL) 0.03 4-7 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.24	Vert(CT) -0.02 4-7 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.02 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=148/Mechanical, 2=267/0-5-8, 4=68/Mechanical
 Max Horz 2=354(LC 12)
 Max Uplift 3=261(LC 12), 2=5(LC 12), 4=19(LC 12)
 Max Grav 3=204(LC 19), 2=267(LC 1), 4=104(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4 except (jt=lb) 3=261.
- 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.



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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.

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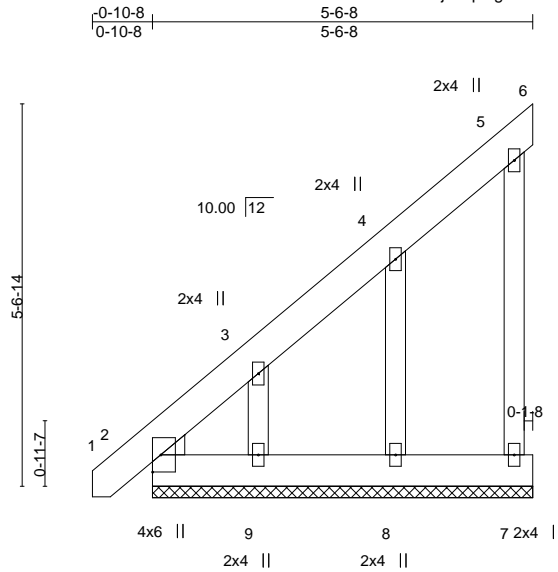
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339664
MASTER	J07	Jack-Open Supported Gable	2	1	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

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ID:zV7Fc4jHuqlrogucND5EIUzsWfo-AM1tgvGyli9BkqR9LTyTtRpej_V1uSjzshOucu6zjDIB



Scale = 1:33.6

Plate Offsets (X,Y)-- [2:0-10,0-0-12], [2:0-1-3,0-4-4]

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 0.07	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	-0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P							
								Weight: 46 lb	FT = 20%	

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 5-6-8.

(lb) - Max Horz 2=362(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 6, 7, 2 except 8=195(LC 12),
 9=265(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 6, 7, 8, 9 except 2=260(LC 12)

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

TOP CHORD 2-3=-491/408, 3-4=-257/208
 WEBS 4-8=-253/246, 3-9=-328/318

NOTES-

- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCCL=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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 7, 2 except (jt=lb) 8=195, 9=265.



February 20,2020

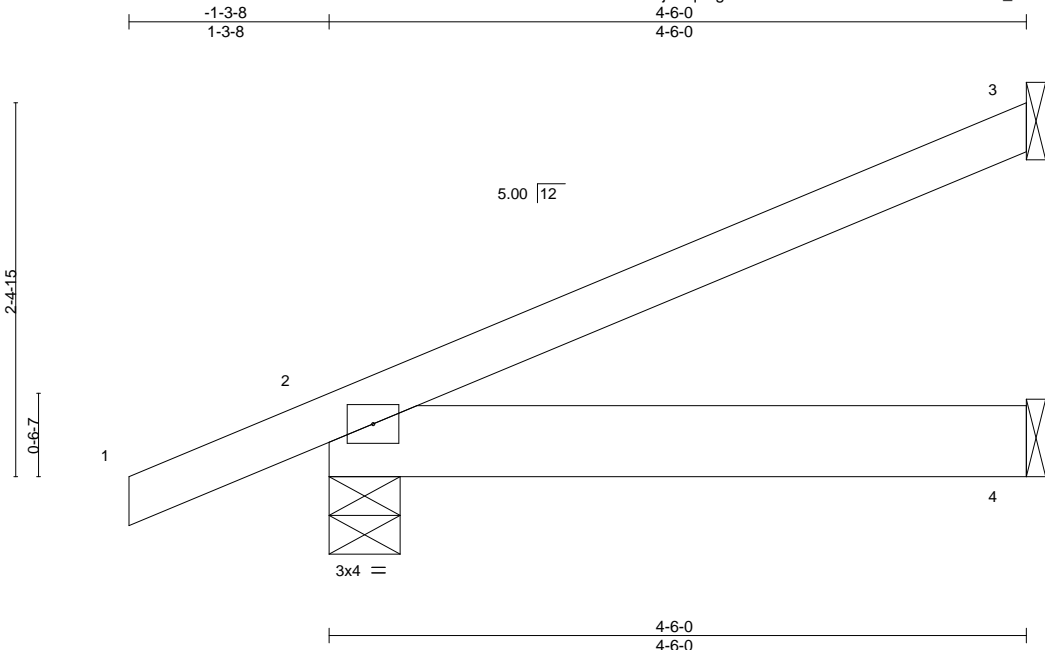
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339665
MASTER	J08	Jack-Open	4	1		
Builders FirstSource, Sumter, SC - 29153,						Job Reference (optional)



Scale = 1:14.9

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 0.24	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	-0.01	4-7	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS						Weight: 20 lb	FT = 20%

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

REACTIONS. (lb/size) 3=99/Mechanical, 2=266/0-5-8, 4=67/Mechanical
 Max Horz 2=160(LC 12)
 Max Uplift 3=111(LC 12), 2=141(LC 12), 4=11(LC 12)
 Max Grav 3=99(LC 1), 2=266(LC 1), 4=91(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=111, 2=141.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 20,2020

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339666
MASTER	J09	Half Hip Girder	2	1		
Builders FirstSource, Sumter, SC - 29153,						Job Reference (optional)

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:36 2020 Page 1
 ID:zV7Fc4jHuqlrogucND5EIUzsWfo-6k8d5bHCHJPvz7aXTuaLWEj22Jh4wE298iNjz?zjD19



Scale: 3/4"=1'

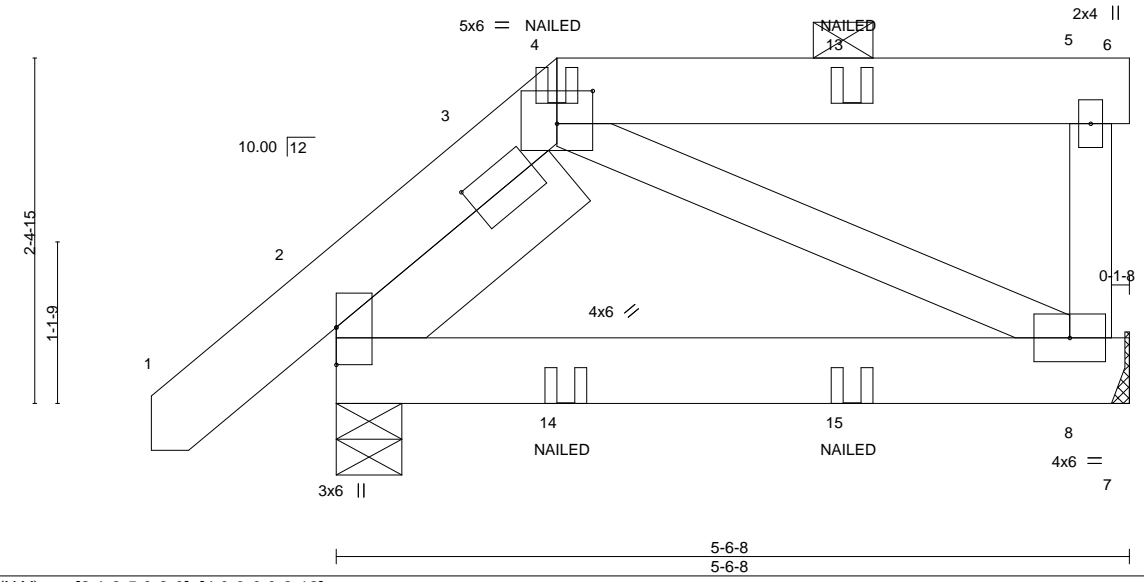


Plate Offsets (X,Y)--	[2:1-3-5,0-2-0], [4:0-3-0,0-2-12]
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LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.16	Vert(LL) -0.01 8-11 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Vert(CT) -0.01 8-11 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MP	Horz(CT) 0.00 2 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.01 8-11 >999 240	Weight: 44 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-6-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 4-6.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
SLIDER Left 2x6 SP No.2 1-11-12	

REACTIONS. (lb/size) 2=376/0-5-8, 8=299/Mechanical
 Max Horz 2=152(LC 8)
 Max Uplift 2=-216(LC 8), 8=-213(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-277/191

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=216, 8=213.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 - Vert: 1-4=-60, 4-5=-60, 5-6=-20, 7-9=-20
- Concentrated Loads (lb)
 - Vert: 4=-39(F) 13=-39(F) 14=-47(F) 15=-47(F)



February 20,2020

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

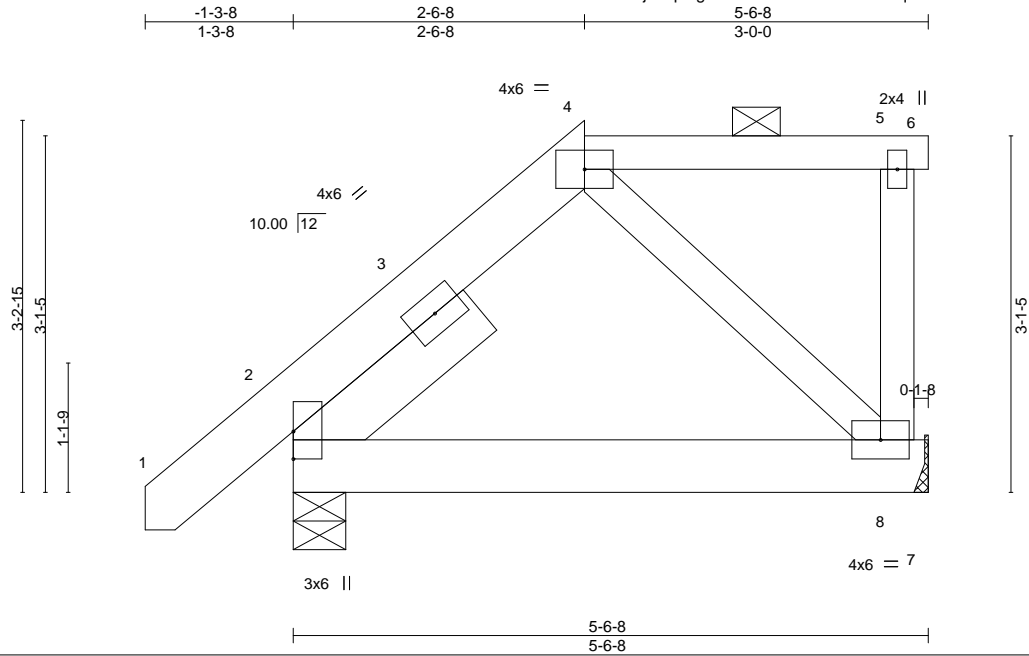
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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339667
MASTER	J10	Half Hip	2	1		
Builders FirstSource, Sumter, SC - 29153,						Job Reference (optional)

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:37 2020 Page 1
 ID:zV7Fc4jHuqlrogucND5EIUzsWFO-awi?Jxlq2dXmbH9k1c5a3SGDij2QfhJNM6GVRzjDI8



Scale = 1:20.1

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 0.16	Vert(LL)	-0.01	8-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	-0.01	8-11	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.00	8-11	>999	240		
									Weight: 43 lb	FT = 20%

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

REACTIONS. (lb/size) 2=288/0-5-8, 8=214/Mechanical
 Max Horz 2=206(LC 12)
 Max Uplift 2=-111(LC 12), 8=-136(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-259/99

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=111, 8=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.



February 20, 2020

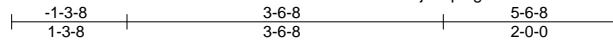
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339668
MASTER	J11	Half Hip	2	1		

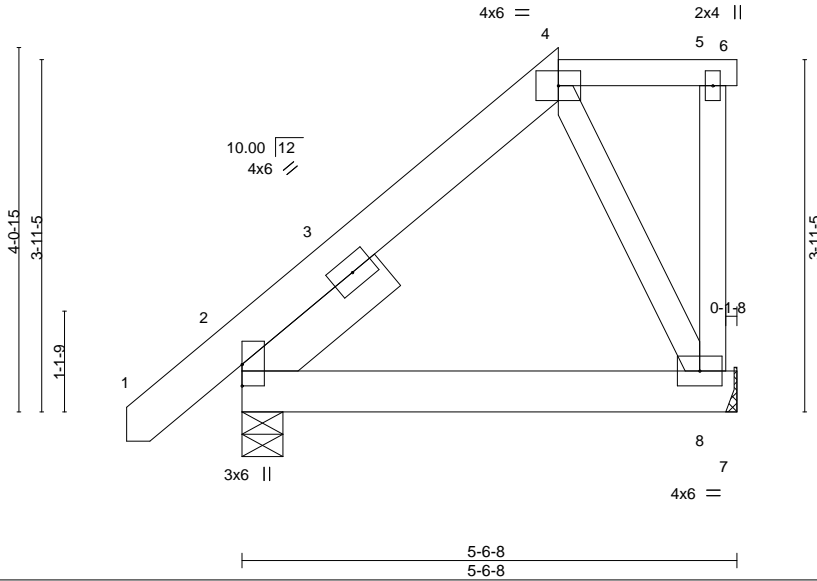
Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:37 2020 Page 1

ID:zV7Fc4jHuqlrogucND5EiUzsWfo-awi?Jxlq2dXmbH9k1c5a3SGDlj2GfhEJNM6GVRzjDI8



Scale = 1:25.8



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 0.13	Vert(LL)	-0.01 8-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	-0.01 8-11	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.01 2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.01 8-11	>999	240	Weight: 46 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
4-6: 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-12

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

REACTIONS. (lb/size) 2=288/0-5-8, 8=214/Mechanical
Max Horz 2=264(LC 12)
Max Uplift 2=90(LC 12), 8=155(LC 12)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 8=155.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20,2020

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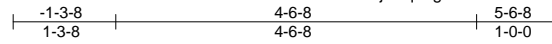
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339669
MASTER	J12	Half Hip	2	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:38 2020 Page 1

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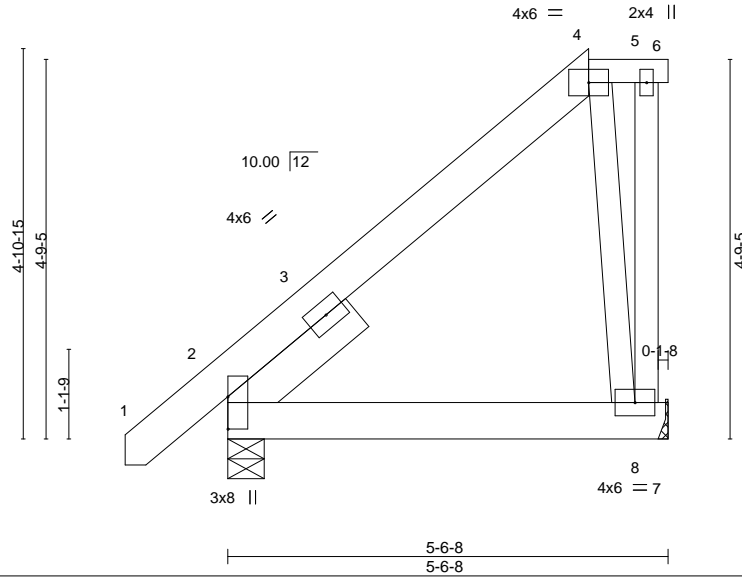


Plate Offsets (X,Y)--	[2:Edge,0-0-0]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	0.02	8-11	>999
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	-0.02	8-11	>999
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	-0.01	2	n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS				
							PLATES
							MT20
							GRIP
							244/190
							Weight: 49 lb
							FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2 *Except* 4-6: 2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 1-11-12

BRACING-

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

REACTIONS. (lb/size) 8=214/Mechanical, 2=288/0-5-8
 Max Horz 2=321(LC 12)
 Max Uplift 8=-221(LC 12), 2=-53(LC 12)
 Max Grav 8=227(LC 19), 2=288(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 8=221.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20,2020

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



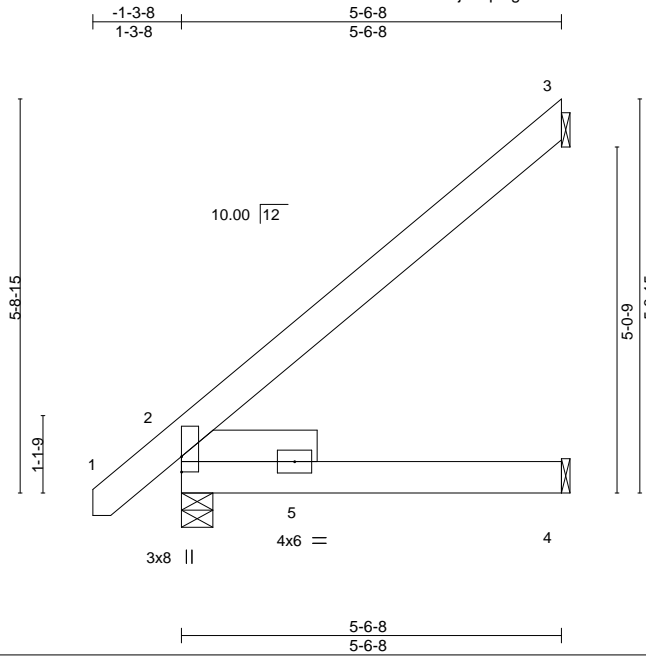
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339670
MASTER	J13	Jack-Open	34	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:39 2020 Page 1

ID:zV7Fc4jHuqlrogucND5EIUzsWfO-XJqmjdK4aEnTqbJ681728tLXcWf?7bgcqgbNaKzjDI6



Scale = 1:33.6

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 0.27	Vert(LL)	0.04 4-8	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.34	Vert(CT)	-0.04 4-8	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.02 3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS					Weight: 39 lb	FT = 20%

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

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

REACTIONS. (lb/size) 3=140/Mechanical, 2=296/0-5-8, 4=72/Mechanical
 Max Horz 2=374(LC 12)
 Max Uplift 3=-245(LC 12), 2=-17(LC 12), 4=-42(LC 12)
 Max Grav 3=192(LC 19), 2=296(LC 1), 4=103(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 BOT CHORD 2-4=-689/677

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4 except (jt=lb) 3=245.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



February 20,2020

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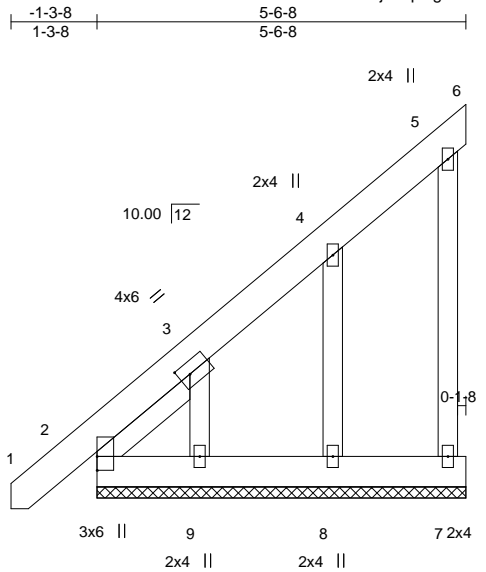


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339671
MASTER	J14	Jack-Open Supported Gable	2	1		

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8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:40 2020 Page 1
 ID:zV7Fc4jHuqIrogucND5EIUzWfo-?VO8xyKjKYvKSlulikfHg4ulPw4Is1Ll3KLw6mzjDI5



Scale = 1:34.6

Plate Offsets (X,Y)--	[3:0-2-0,0-2-0]									
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 0.08	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	-0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P							
									Weight: 51 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 1-10-6

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-6-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 5-6-8.
 (lb) - Max Horz 2=384(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 6, 7, 2 except 8=198(LC 12), 9=286(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 6, 7, 8, 9 except 2=264(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-515/445, 3-4=-259/209
 WEBS 4-8=-255/249, 3-9=-368/341

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Gable studs spaced at 2-0-0 oc.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 7, 2 except (jt=lb) 8=198, 9=286.



February 20, 2020

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

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339672
MASTER	J15	Half Hip	2	1		

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8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:40 2020 Page 1
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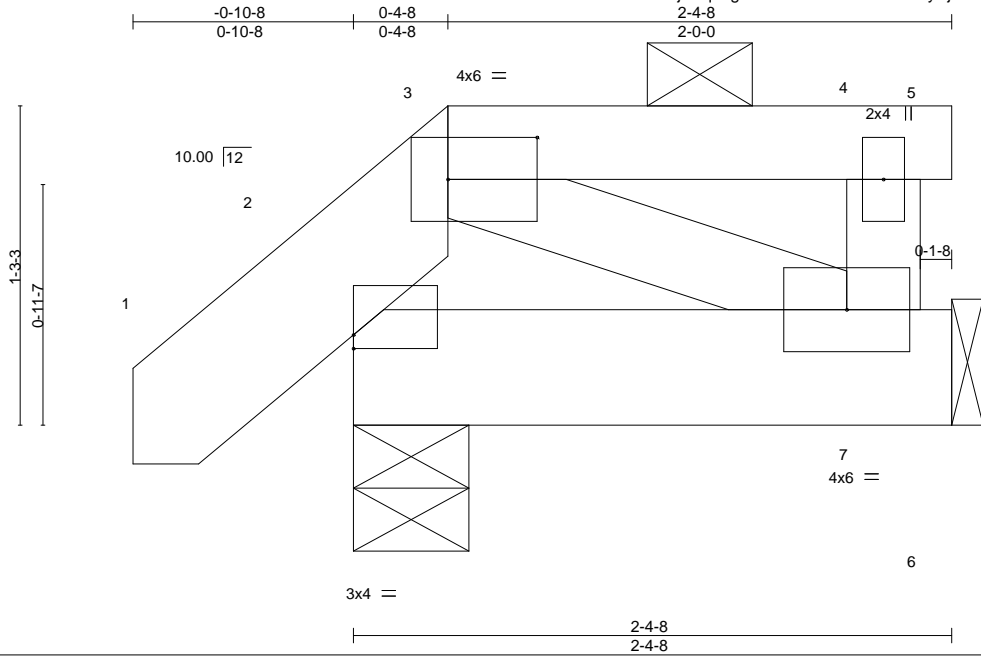


Plate Offsets (X,Y)--	[2:0-0-0,0-0-10], [3:0-4-4,0-2-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.06	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) -0.00 10 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.01	Vert(CT) -0.00 10 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Horz(CT) 0.00 2 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.00 10 >999 240	Weight: 16 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 3-5: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-4-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-5.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 2=136/0-5-8, 7=88/Mechanical
 Max Horz 2=69(LC 12)
 Max Uplift 2=-56(LC 12), 7=-61(LC 9)
 Max Grav 2=136(LC 1), 7=92(LC 24)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20, 2020

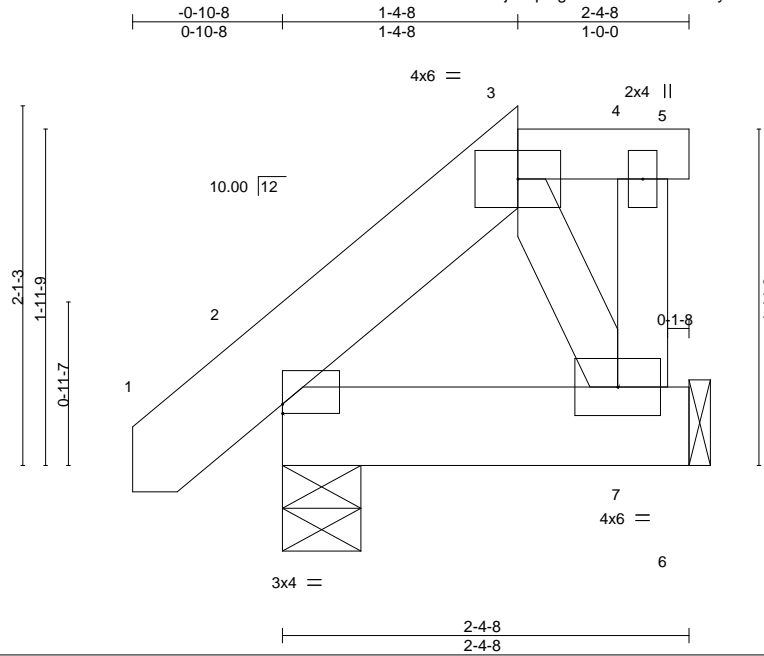
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339673
MASTER	J16	Half Hip	2	1		

Builders FirstSource, Sumter, SC - 29153,

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ID:zV7Fc4jHuqrogucND5EIUzsWfo-TiyW8ILL5s1B4vTVGSAWDIRxqKQSbVnulz4TeCzjDI4



Scale = 1:13.5

Plate Offsets (X,Y)--	[2:0-0-0,0-0-10]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.03	Vert(LL) -0.00 10 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.00 10 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) -0.00 2 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP	Wind(LL) 0.00 10 >999 240	Weight: 18 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 3-5: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-4-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-5.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 2=136/0-5-8, 7=88/Mechanical
 Max Horz 2=118(LC 12)
 Max Uplift 2=-45(LC 12), 7=-66(LC 12)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339674
MASTER	J17	Jack-Open	6	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:42 2020 Page 1

ID:zV7Fc4jHuqlrogucND5EIUsWFO-xuVuMeMzs9A2h22hp9hllVz68kmCKyQ2Wdq1AfzjDI3



Scale = 1:17.8

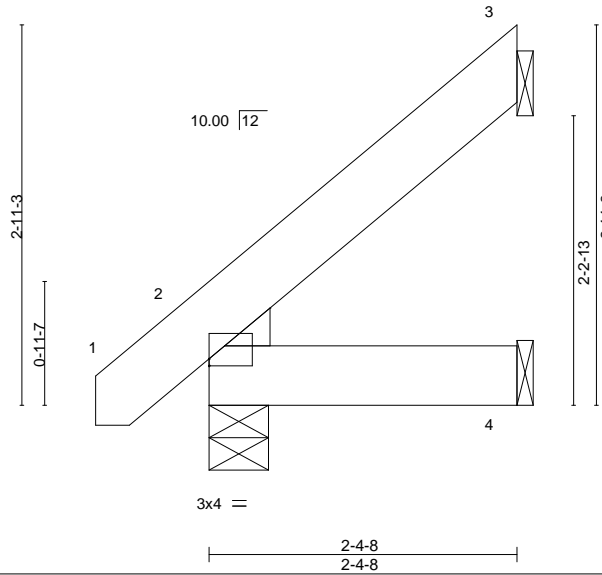


Plate Offsets (X,Y)--	[2:0-0-0,0-0-10]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.06	Vert(LL) 0.00 7 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) -0.00 7 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP		Weight: 17 lb	FT = 20%

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

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

REACTIONS. (lb/size) 3=59/Mechanical, 2=144/0-5-8, 4=27/Mechanical
Max Horz 2=171(LC 12)
Max Uplift 3=-114(LC 12), 2=-11(LC 12), 4=-15(LC 12)
Max Grav 3=84(LC 19), 2=144(LC 1), 4=44(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4 except (jt=lb) 3=114.



February 20,2020

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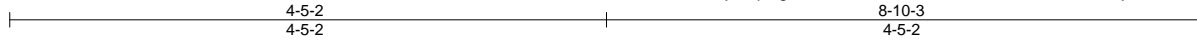


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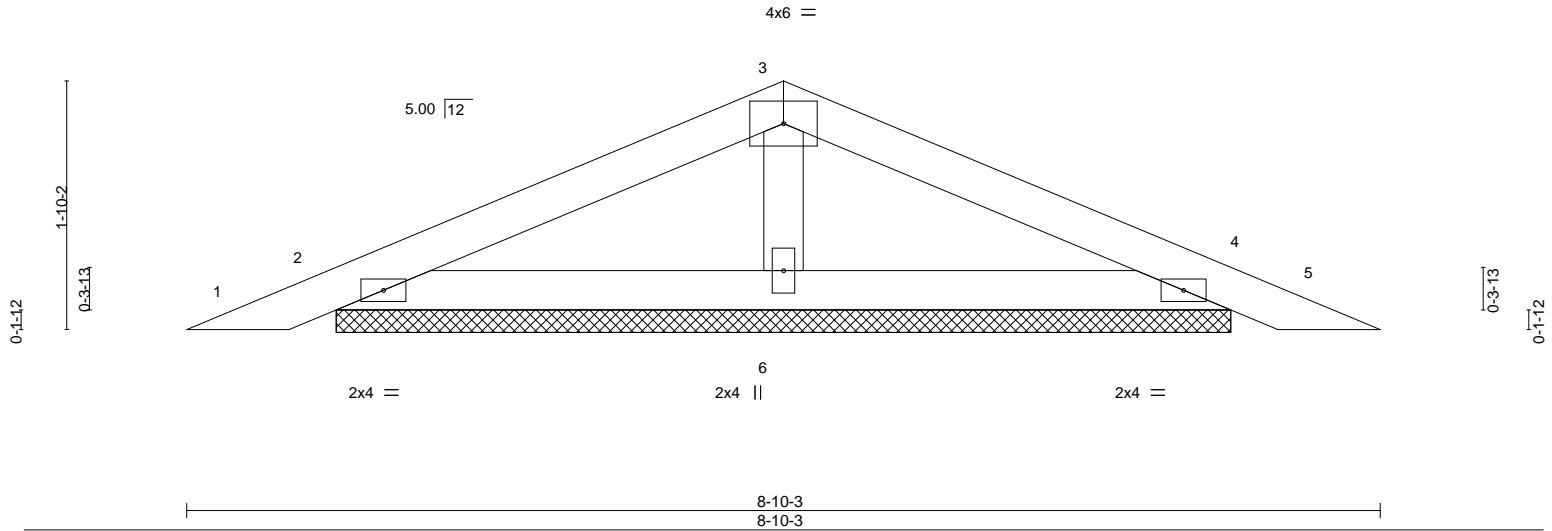
Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339675
MASTER	PB01	Piggyback	147	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:43 2020 Page 1
 ID:zV7Fc4jHuoqrogucND5EIUzsWFO-P43GZ_NbdTivJCdtNsC_IjWE075H3OeBIHJZaj5zjDI2



Scale = 1:17.1



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 0.25	Vert(LL)	0.01	5	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	0.01	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 26 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 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=179/6-7-10, 4=179/6-7-10, 6=261/6-7-10
 Max Horz 2=51(LC 12)
 Max Uplift 2=-124(LC 12), 4=-132(LC 13), 6=-67(LC 12)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=124, 4=132.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



February 20, 2020

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

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



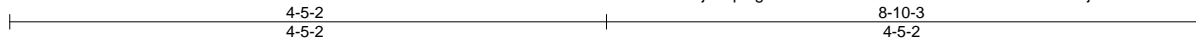
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339676
MASTER	PB02	Piggyback	12	1		

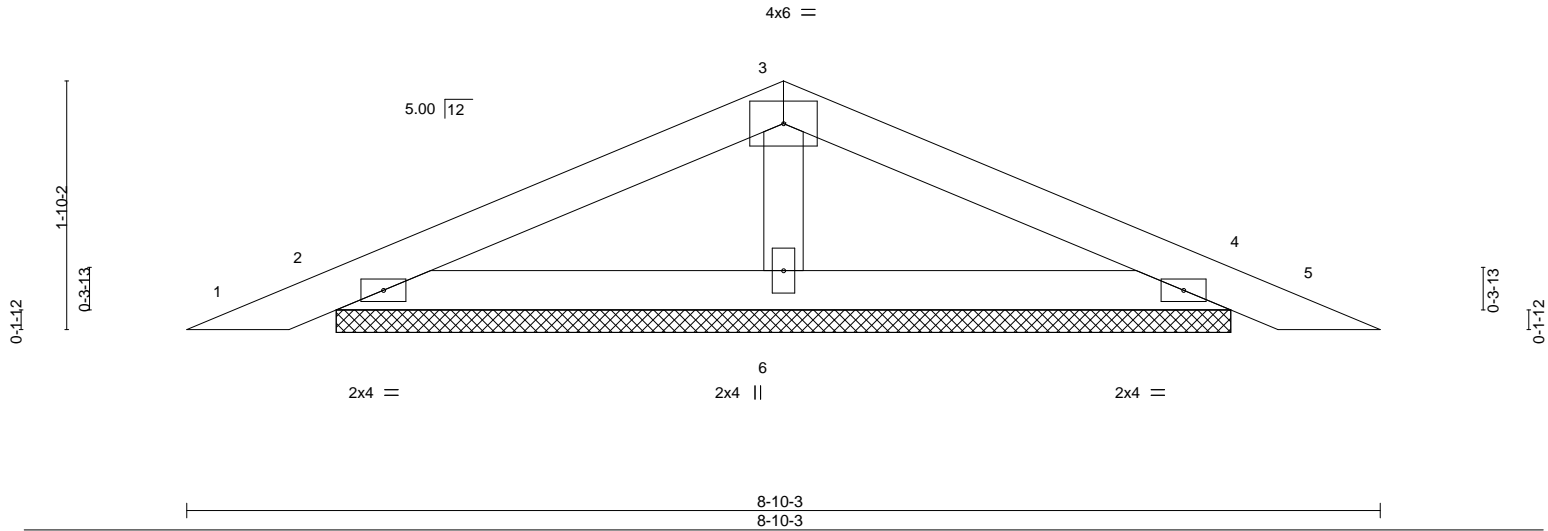
Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:44 2020 Page 1

ID:zV7Fc4jHuqlrogucND5EIUzswFo-tHdfnKNDOOnQmxMC4xajDrw3PmXQWoruL_xJ8FXzjD11



Scale = 1:17.1



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 0.25	Vert(LL)	0.01	5	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	0.01	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 26 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 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=179/6-7-10, 4=179/6-7-10, 6=261/6-7-10
 Max Horz 2=51(LC 12)
 Max Uplift 2=-124(LC 12), 4=-132(LC 13), 6=-67(LC 12)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=124, 4=132.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339677
MASTER	V01	Valley	4	1		

Builders FirstSource, Sumter, SC - 29153,

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ID:zV7Fc4jHuqlrogucND5EIUzsWfo-LTB1_gOr94YdYWmGVHESN8bOmXjRXH3UDb2hnzjDIO

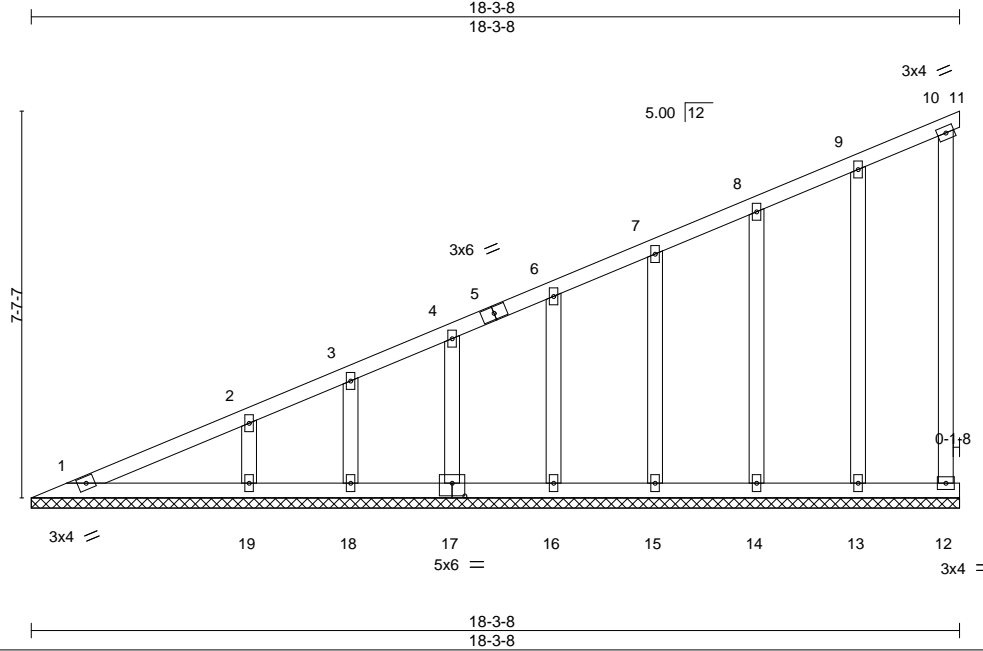


Plate Offsets (X,Y)--	[17:0-3-0,0-3-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 1.00	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.27	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT) -0.01 11 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 105 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 18-3-8.
 (lb) - Max Horz 1=541(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 18 except 11=-146(LC 8), 12=-268(LC 11), 13=-131(LC 12), 14=-111(LC 12), 15=-117(LC 12), 16=-112(LC 12), 17=-124(LC 12), 19=-208(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 11, 12, 1, 13, 14, 15, 16, 17, 18 except 19=290(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-698/370, 2-3=-580/316, 3-4=-527/303, 4-6=-454/277, 6-7=-386/253, 7-8=-316/228, 8-9=-251/209
 WEBS 2-19=-209/265

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 9) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18 except (jt=lb) 11=146, 12=268, 13=131, 14=111, 15=117, 16=112, 17=124, 19=208.



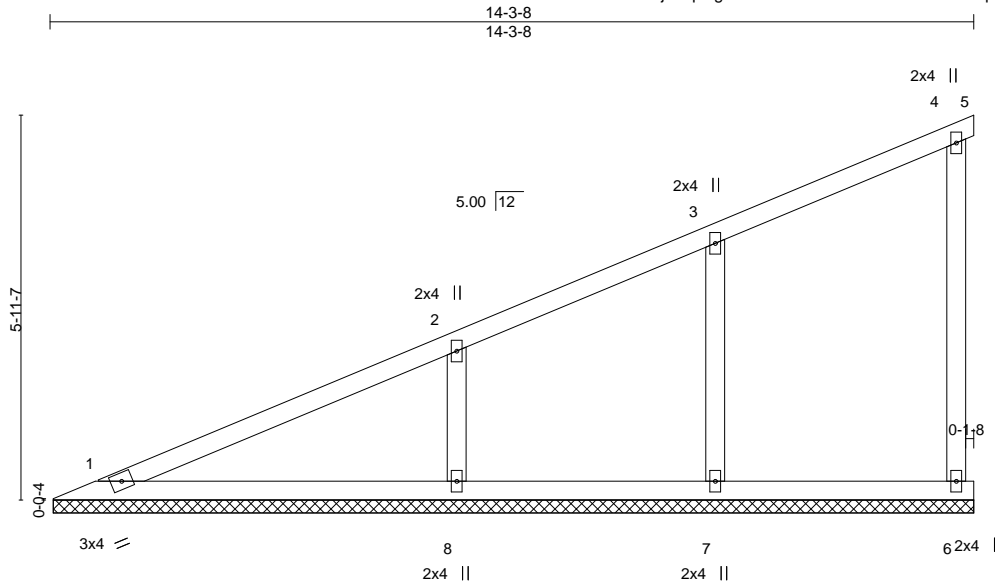
February 20, 2020

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339678
MASTER	V02	Valley	10	1	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:47 2020 Page 1
 ID:zV7Fc4jHuqroguCN5EIUzsWf0-IsJnPMQ6hioLoqwfciHwSZhtnlQJ?AYngvXosszjDI_



Scale = 1:35.6

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 0.39	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.24	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	-0.01	5	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S					Weight: 60 lb	FT = 20%

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

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

REACTIONS. All bearings 14-2-14.
 (lb) - Max Horz 1=392(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) except 5=-107(LC 1), 6=-248(LC 12), 7=-194(LC 12), 8=-333(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=271(LC 2), 7=311(LC 2), 8=460(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-415/164, 4-6=-229/318
 WEBS 3-7=-211/297, 2-8=-335/457

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Gable requires continuous bottom chord bearing.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 6) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint 5, 248 lb uplift at joint 6, 194 lb uplift at joint 7 and 333 lb uplift at joint 8.



February 20, 2020

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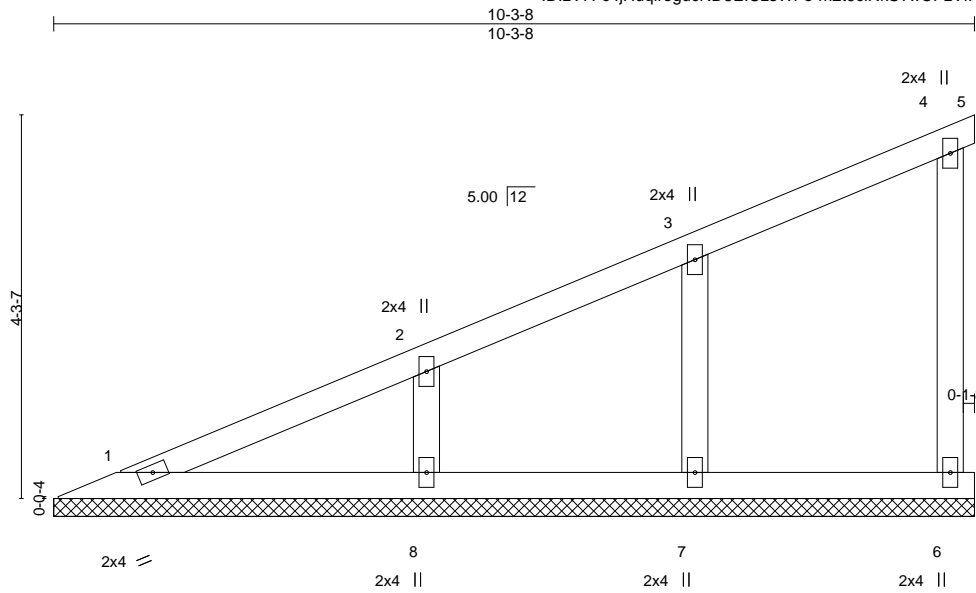
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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339679
MASTER	V03	GABLE	10	1		
Builders FirstSource, Sumter, SC - 29153,						Job Reference (optional)

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:48 2020 Page 1
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	-0.00	5	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
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 10-3-8.
 (lb) - Max Horz 1=277(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 5 except 6=-150(LC 12), 7=-162(LC 12), 8=-214(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6, 7 except 8=295(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-328/128
 WEBS 3-7=-174/272, 2-8=-215/329

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Gable requires continuous bottom chord bearing.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 6) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 6=150, 7=162, 8=214.



February 20, 2020

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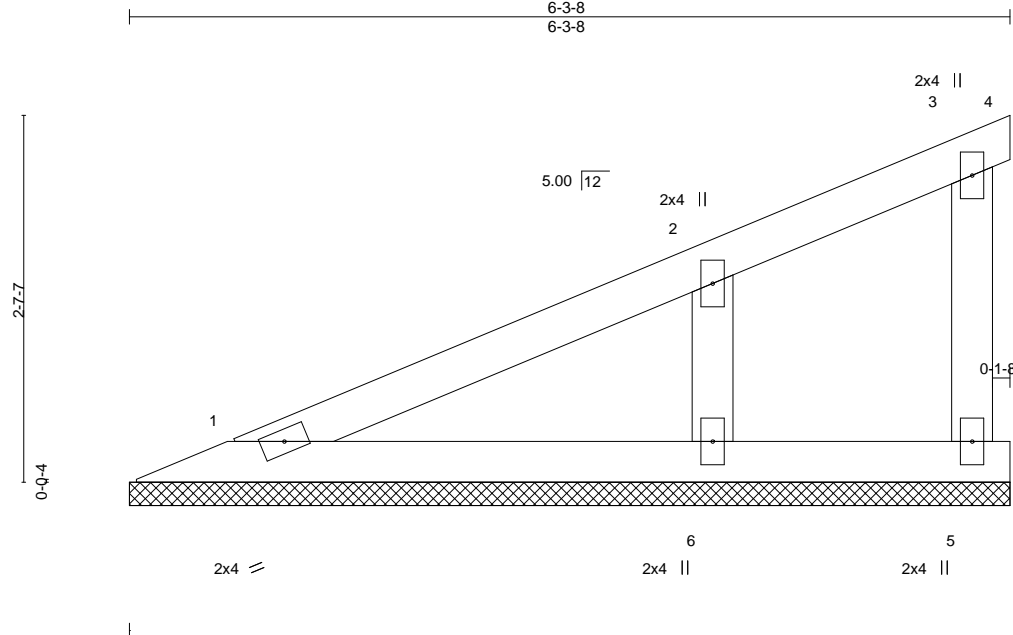
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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339680
MASTER	V04	GABLE	10	1		
Builders FirstSource, Sumter, SC - 29153,						Job Reference (optional)

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:49 2020 Page 1
 ID:zV7Fc4jHuqlrogucND5EIUzsWfo-EERYq1RMDJ231741k7JOY_mGUY8BT5N47D0vvlzjDHy



Scale = 1:16.5

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 0.18	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 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. All bearings 6-3-8.
 (lb) - Max Horz 1=161(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 4, 5 except 6=207(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 4, 5 except 6=286(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-6=226/384

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Gable requires continuous bottom chord bearing.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 6) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4, 5 except (jt=lb) 6=207.



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ENGINEERING BY
TRENCO
 A MiTek Affiliate

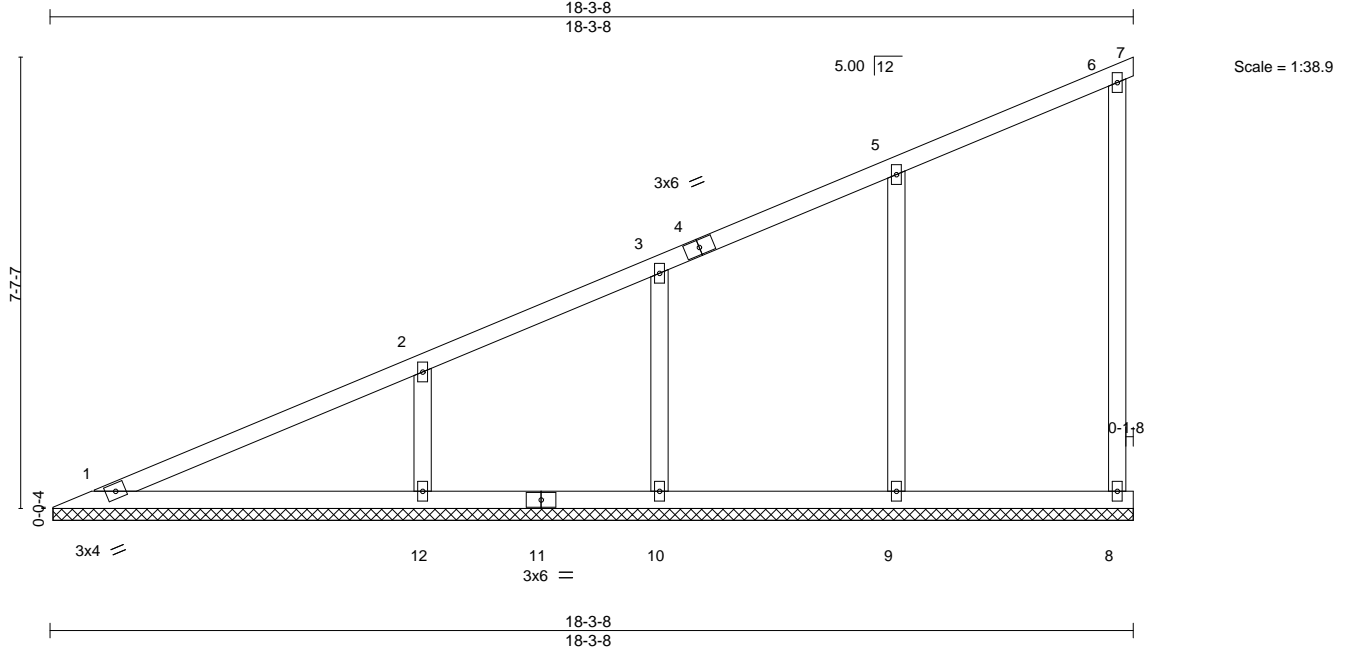
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339681
MASTER	V05	Valley	6	1	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

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ID:zV7Fc4jHuqlrogucND5EIUzsWFO-iR_w1NS_dAwfHfDHrqd4BJN1yR0CXvDMmSRBzJDHx



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)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.24	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	-0.01	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 82 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 18-2-14.
 (lb) - Max Horz 1=508(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 7 except 8=193(LC 12), 9=243(LC 12), 10=194(LC 12), 12=333(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 7, 8, 1 except 9=437(LC 2), 10=292(LC 2), 12=462(LC 1)

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

TOP CHORD 1-2=-532/205, 2-3=-341/125
 WEBS 5-9=-256/331, 3-10=-206/271, 2-12=-336/428

NOTES-

- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Bearing at joint(s) 7 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) 7 except (jt=lb) 8=193, 9=243, 10=194, 12=333.



February 20, 2020

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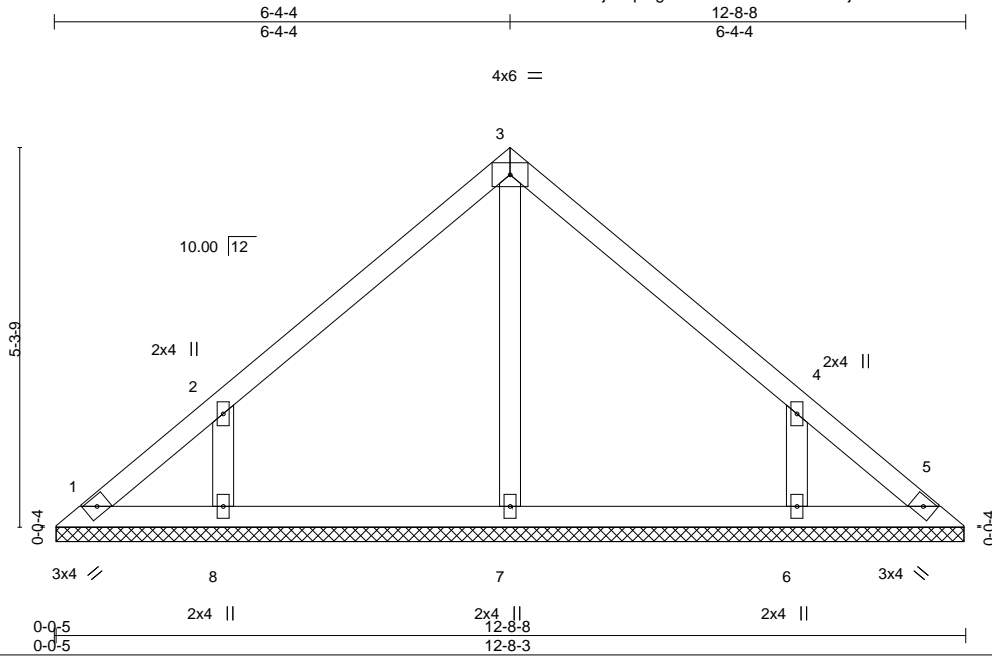


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339682
MASTER	V06	Valley	4	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:51 2020 Page 1
 ID:zV7Fc4jHuqlrogucND5EiUzsWfo-AdYIFjTclwlmGREQrYLsdPrbCMp9x?nNbXV?_dzjDHW



Scale: 3/8"=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 0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 53 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. All bearings 12-7-14.
 (lb) - Max Horz 1=220(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=361(LC 12), 6=360(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=251(LC 19), 8=382(LC 19), 6=382(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-428/404, 4-6=-428/404

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=361, 6=360.



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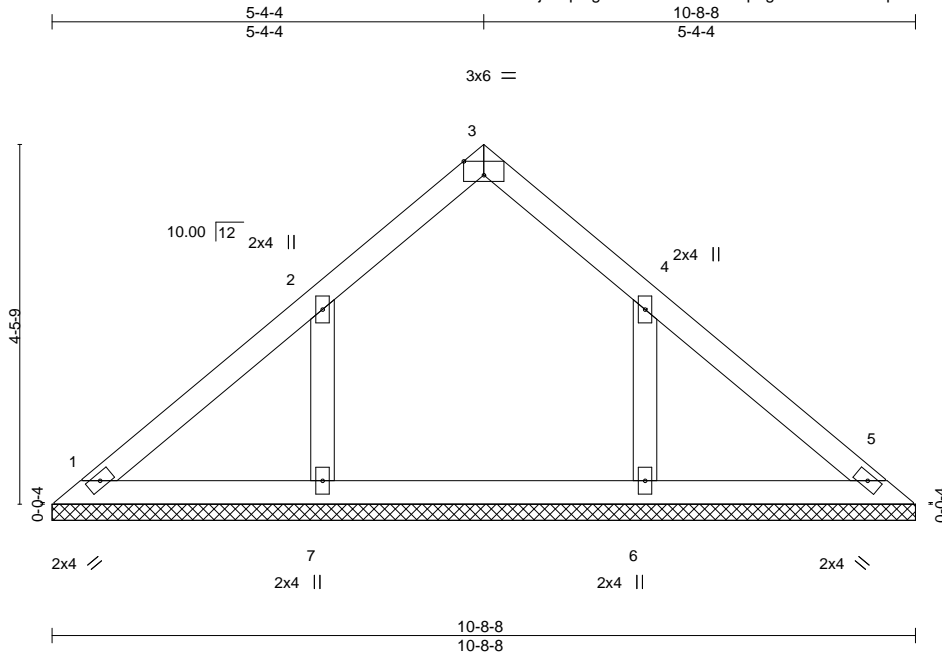
818 Soundside Road
 Edenton, NC 27932

Job MASTER	Truss V07	Truss Type GABLE	Qty 4	Ply 1	A&G/Cedar/ Job Reference (optional)	140339683
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:52 2020 Page 1

ID:zV7Fc4jHuqlrogucND5EIUzsWFO-ep6gS3UEWEQdubpcPFs59cOnFm9hgSTWqBFZW4zjDHv



Scale = 1:28.6

Plate Offsets (X,Y)--	[3:0-3:0,Edge]				
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.10	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.09	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 42 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. All bearings 10-8-8.
(lb) - Max Horz 1=-183(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) except 7=-274(LC 12), 6=-272(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=335(LC 19), 6=333(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-7=-342/309, 4-6=-342/309

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 274 lb uplift at joint 7 and 272 lb uplift at joint 6.



February 20, 2020

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

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339684
MASTER	V08	GABLE	4	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:53 2020 Page 1
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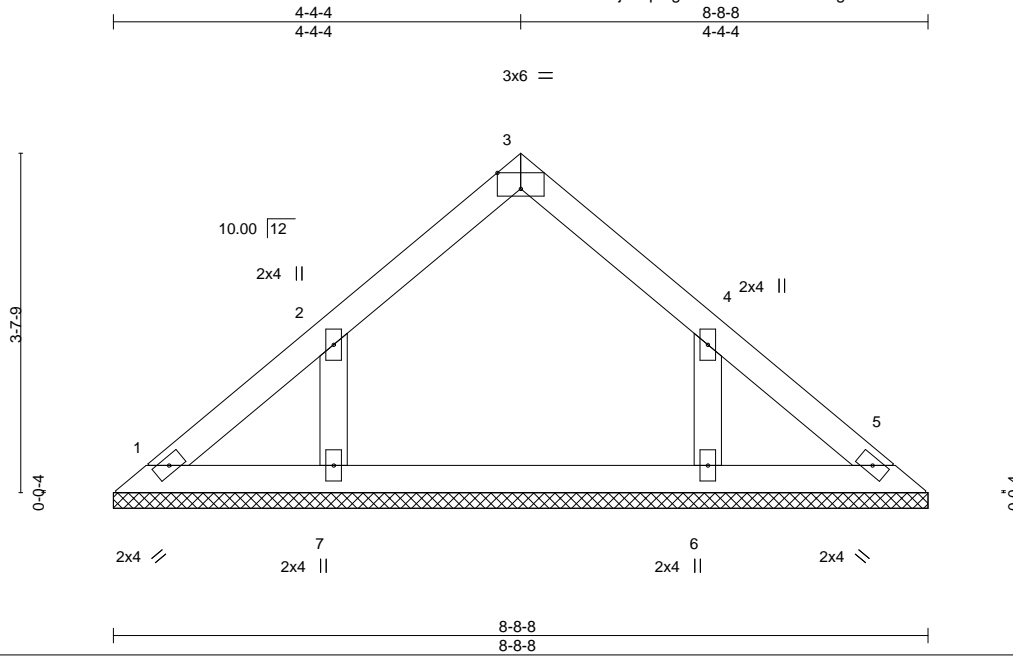


Plate Offsets (X,Y)--	[3:0-3-0,Edge]				
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.08	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 32 lb	FT = 20%

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

REACTIONS. All bearings 8-8-8.
 (lb) - Max Horz 1=-146(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 7=-202(LC 12), 6=-200(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=267(LC 19), 6=265(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-7=-263/244, 4-6=-263/244

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 7=202, 6=200.



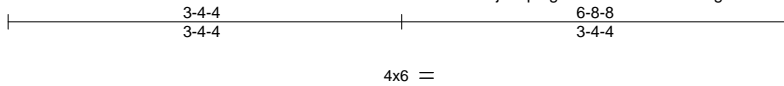
February 20, 2020

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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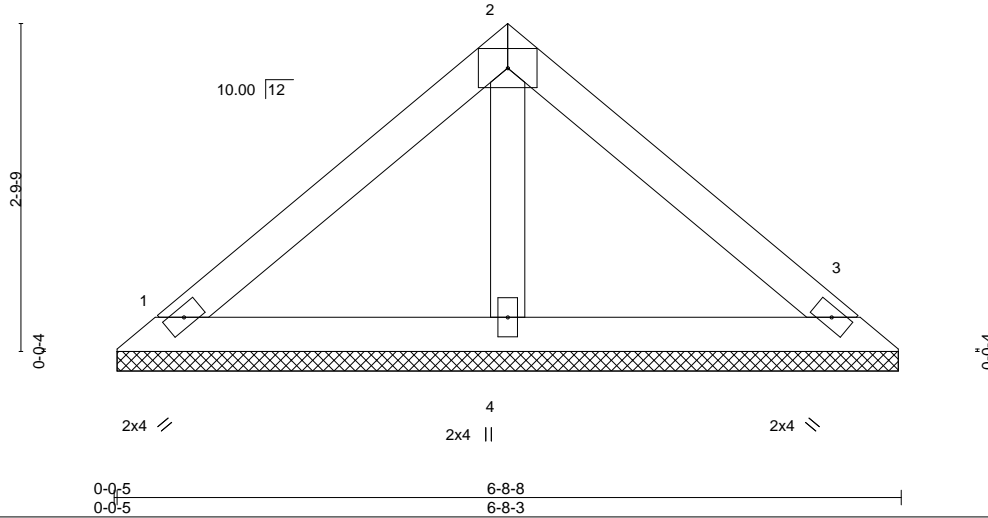
Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339685
MASTER	V09	Valley	4	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:53 2020 Page 1
 ID:zV7Fc4jHuqlrogucND5EIUzsWf0-6?g2fPUsGYUWIOozzNKiqxh9V8Pwhf2r_62WzjDHu



Scale = 1:19.6



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 0.23	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 25 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 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) 1=135/6-7-14, 3=135/6-7-14, 4=201/6-7-14
 Max Horz 1=109(LC 9)
 Max Uplift 1=80(LC 13), 3=93(LC 13), 4=35(LC 12)
 Max Grav 1=135(LC 1), 3=136(LC 20), 4=201(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



February 20, 2020

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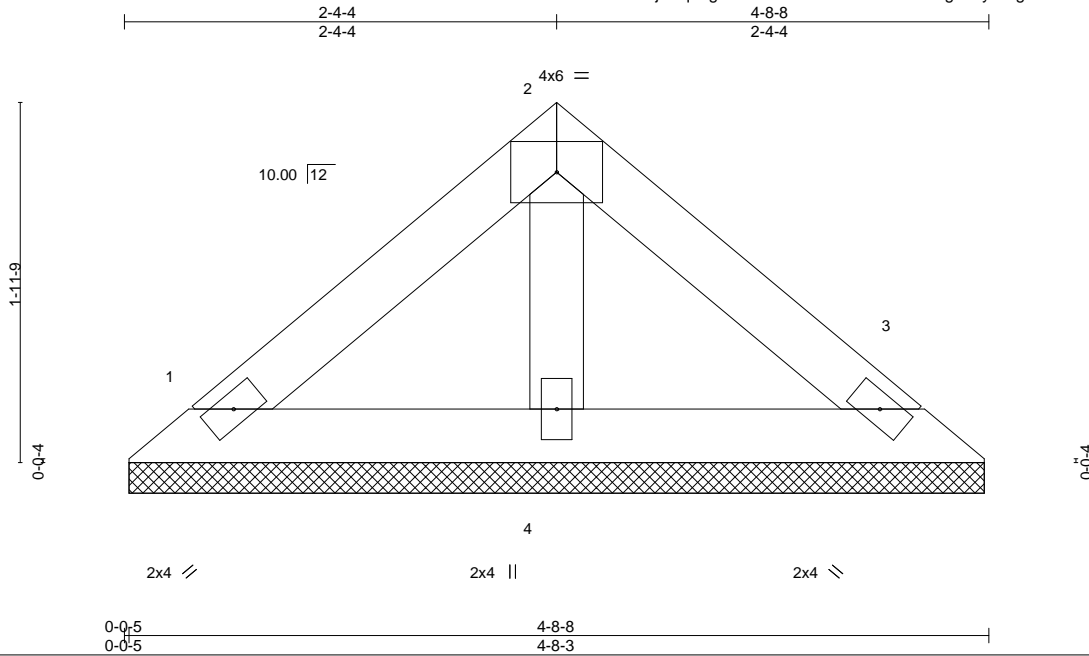


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339686
MASTER	V10	Valley	4	1	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:54 2020 Page 1
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Scale = 1:12.5

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

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

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

REACTIONS. (lb/size) 1=90/4-7-14, 3=90/4-7-14, 4=133/4-7-14
 Max Horz 1=-72(LC 8)
 Max Uplift 1=-53(LC 13), 3=-62(LC 13), 4=-23(LC 12)
 Max Grav 1=90(LC 1), 3=90(LC 20), 4=133(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339687
MASTER	V11	Valley	4	1		

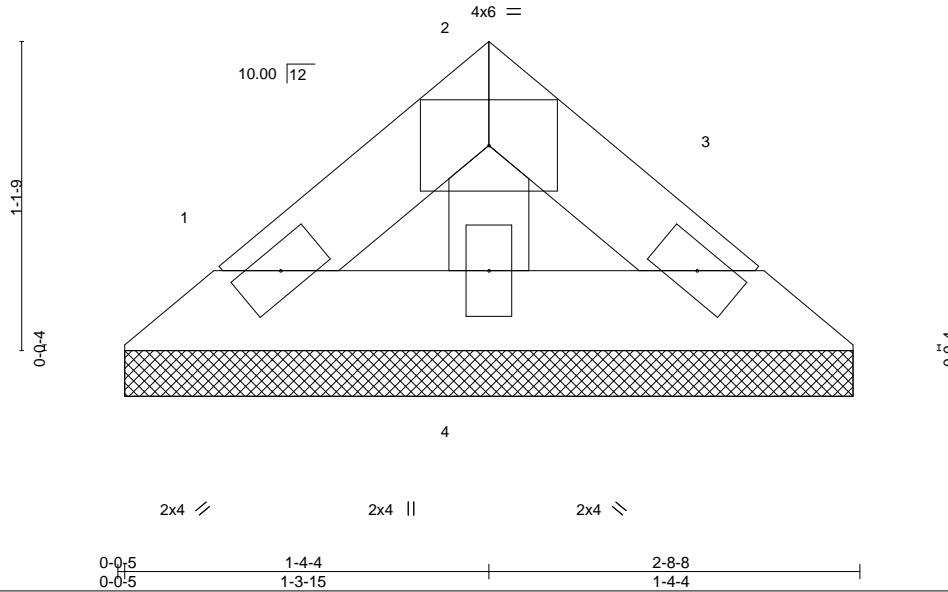
Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:55 2020 Page 1

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Scale = 1:8.4



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 0.02	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 8 lb	FT = 20%

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

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

REACTIONS. (lb/size) 1=44/2-7-14, 3=44/2-7-14, 4=65/2-7-14
 Max Horz 1=-35(LC 8)
 Max Uplift 1=-26(LC 13), 3=-30(LC 13), 4=-11(LC 12)
 Max Grav 1=44(LC 1), 3=44(LC 20), 4=65(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



February 20, 2020

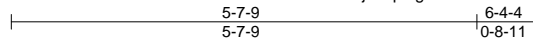
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339688
MASTER	V12	GABLE	2	1		
Builders FirstSource, Sumter, SC - 29153,						Job Reference (optional)

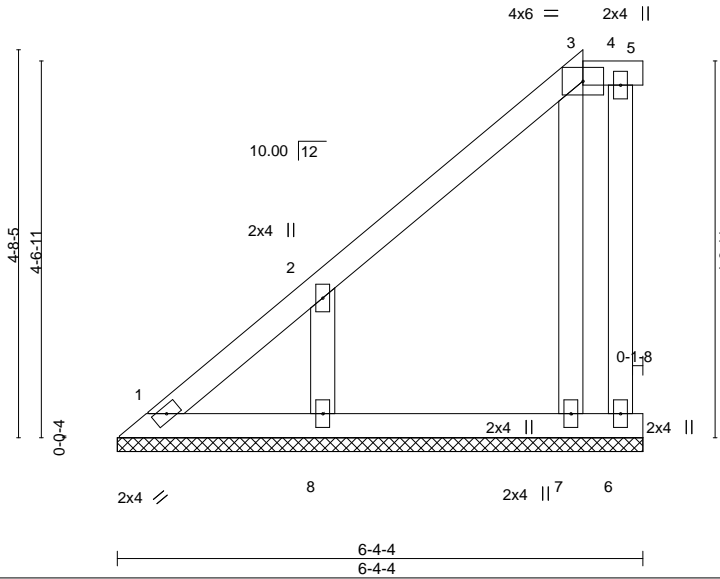
Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:56 2020 Page 1

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Scale = 1:27.9



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 0.22	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 35 lb	FT = 20%

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

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

REACTIONS. All bearings 6-4-4.
 (lb) - Max Horz 1=297(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 6, 7 except 8=320(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6, 7 except 8=333(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-377/319
 WEBS 2-8=-405/388

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left 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) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 6, 7 except (jt=lb) 8=320.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20,2020

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 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



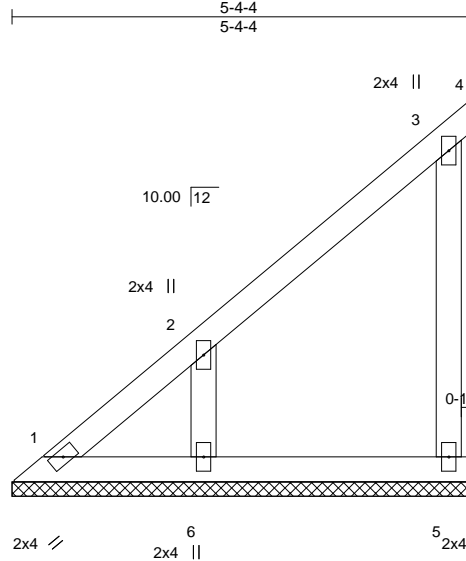
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339689
MASTER	V13	GABLE	2	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:56 2020 Page 1

ID:zV7Fc4jHuqlrogucND5EIUsWfo-XaMBIRXIZTw3NC6Ne5x1KSZTxNYFcGN6kpDmfrzjDHR



Scale = 1:26.8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.17	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 25 lb	FT = 20%

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

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

REACTIONS. All bearings 5-4-4.
 (lb) - Max Horz 1=286(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 4=-103(LC 19), 5=-287(LC 12), 6=-260(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 4 except 5=256(LC 19), 6=290(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-367/302, 3-5=-346/334
 WEBS 2-6=-341/329

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Gable requires continuous bottom chord bearing.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 6) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 4=103, 5=287, 6=260.



February 20, 2020

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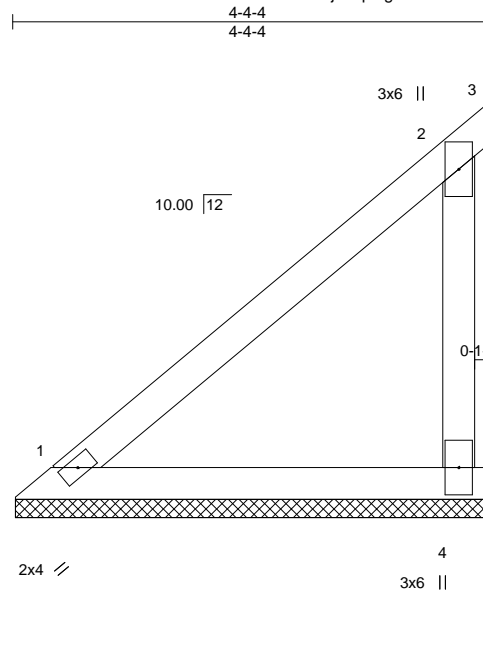
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339690
MASTER	V14	Valley	2	1	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:57 2020 Page 1

ID:zv7Fc4jHuqlrogucND5EIUzsWFO-?nvZVnYNKm2w_MhaCpSGsg5csnryLk8FzTyKBHjDHq



Scale = 1:21.1

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 0.29	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 18 lb	FT = 20%

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

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

REACTIONS. (lb/size) 1=128/4-3-15, 3=-258/4-3-15, 4=441/4-3-15
 Max Horz 1=229(LC 12)
 Max Uplift 3=-351(LC 19), 4=-688(LC 12)
 Max Grav 1=128(LC 1), 3=453(LC 12), 4=588(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-338/323, 2-4=-819/793

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 6) Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=351, 4=688.



February 20, 2020

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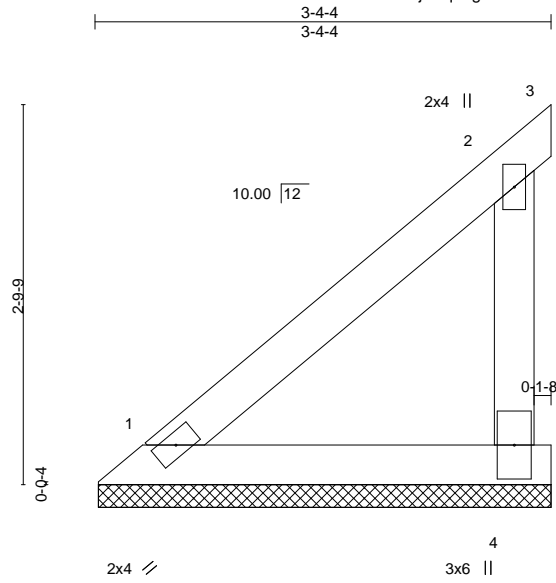
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339691
MASTER	V15	Valley	2	1	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:58 2020 Page 1

ID:zV7Fc4jHuqlrogucND5EIUzsWf0-TzTxj6Y?54BncWGmlWzVPtphACR4BNOC7ttkzjDHP



Scale = 1:16.9

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 0.15	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 14 lb	FT = 20%

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

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

REACTIONS. (lb/size) 1=94/3-3-15, 3=124/3-3-15, 4=261/3-3-15
 Max Horz 1=171(LC 12)
 Max Uplift 3=169(LC 19), 4=395(LC 12)
 Max Grav 1=94(LC 1), 3=217(LC 12), 4=346(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-474/459

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 6) Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=169, 4=395.



February 20, 2020

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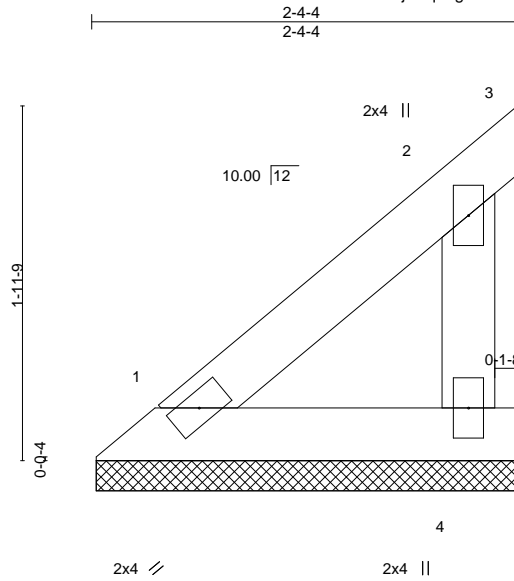


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339692
MASTER	V16	Valley	2	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:58 2020 Page 1
 ID:zV7Fc4jHuqlrogucND5EIUzsWFO-TzTxj6Y?54BncWGmlWzVPteq3ADE4BNOc7ttkjdHp



Scale = 1:12.7

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 9 lb	FT = 20%

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

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

REACTIONS. (lb/size) 1=60/2-3-15, 3=-37/2-3-15, 4=127/2-3-15
 Max Horz 1=113(LC 12)
 Max Uplift 3=-49(LC 19), 4=-183(LC 12)
 Max Grav 1=60(LC 1), 3=63(LC 12), 4=167(LC 19)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 6) Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 4=183.



February 20,2020

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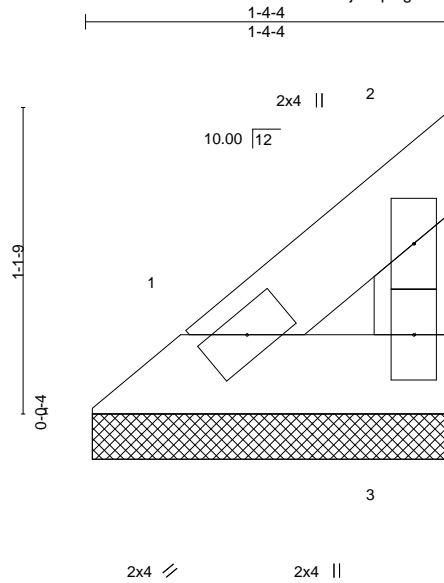
818 Soundside Road
 Edenton, NC 27932

Job MASTER	Truss V17	Truss Type Valley	Qty 2	Ply 1	A&G/Cedar/ Job Reference (optional)	140339693
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:28:59 2020 Page 1

ID:zV7Fc4jHuqlrogucND5EIUzsWFO-x91KwSZdsOJeEgryJDUky5A0XaZqpedYRnRQGAzjDHo



Scale = 1:8.5

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 0.02	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 5 lb	FT = 20%

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

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

REACTIONS. (lb/size) 1=32/1-3-15, 3=32/1-3-15
 Max Horz 1=47(LC 12)
 Max Uplift 3=-38(LC 12)
 Max Grav 1=32(LC 1), 3=41(LC 19)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.



February 20,2020

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818 Soundside Road
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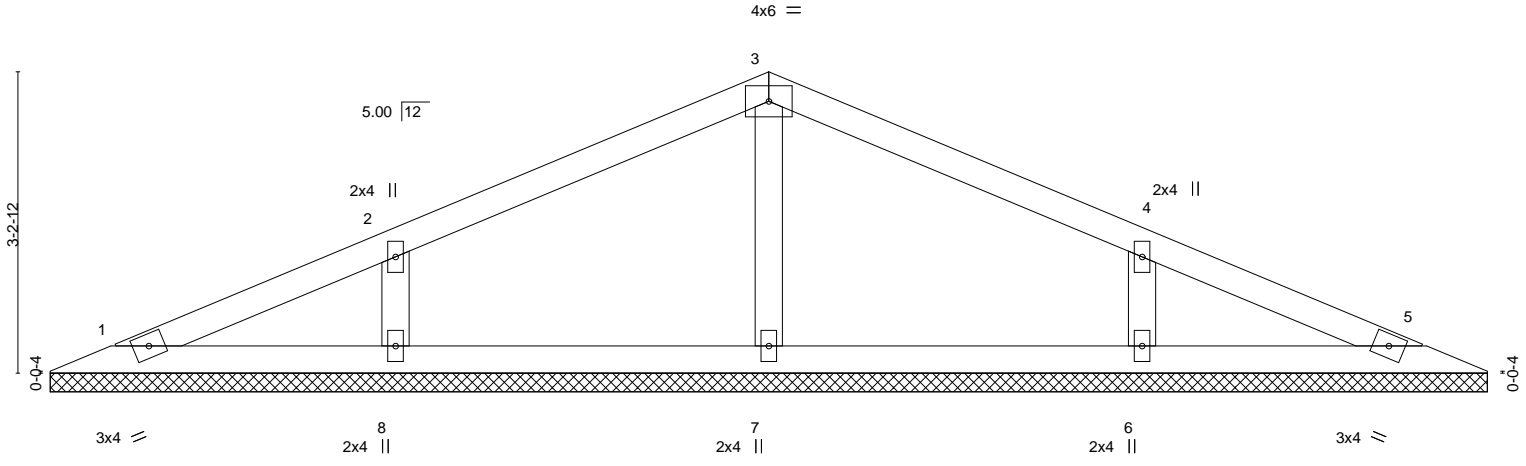
Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339694
MASTER	V18	Valley	1	1		

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:29:00 2020 Page 1
 ID:zV7Fc4jHuqlrogucND5EIUzsWfo-PMbi7oaGdhRVsqQ8tx0zUlj9h_uPY4LhFRB_oczjDhn



Scale = 1:24.7



0-0-10 0-0-10	15-6-0 15-5-6									
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 0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 52 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. All bearings 15-4-13.
 (lb) - Max Horz 1=88(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 7 except 8=-247(LC 12), 6=-246(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=286(LC 1), 8=332(LC 23), 6=332(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-252/330, 4-6=-252/330

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 7 except (jt=lb) 8=247, 6=246.



February 20, 2020

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

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339695
MASTER	V19	Valley	1	1	Job Reference (optional)	

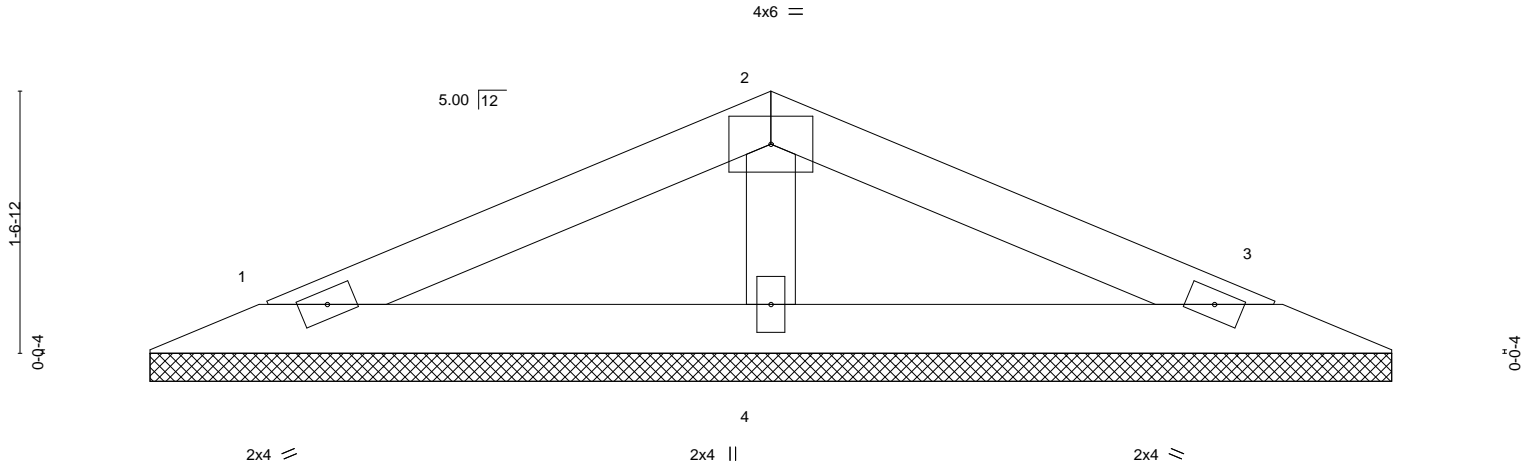
Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:29:01 2020 Page 1

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Scale = 1:13.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 22 lb	FT = 20%

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

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

REACTIONS. (lb/size) 1=106/7-4-13, 3=106/7-4-13, 4=268/7-4-13
 Max Horz 1=-38(LC 13)
 Max Uplift 1=-64(LC 12), 3=-70(LC 13), 4=-92(LC 12)
 Max Grav 1=108(LC 23), 3=108(LC 24), 4=268(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339696
MASTER	V20	Valley	2	1		

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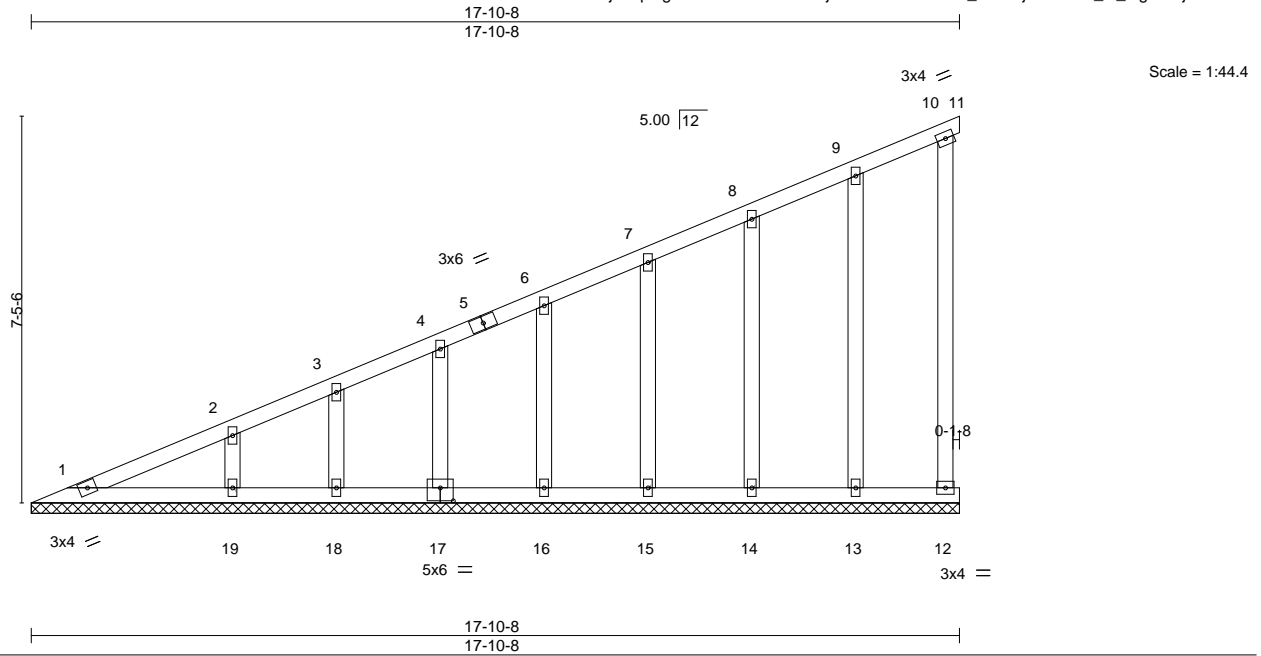


Plate Offsets (X,Y)--	[17:0-3-0,0-3-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.94	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.26	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.13	Horz(CT) -0.01 11 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 101 lb	FT = 20%

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

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

REACTIONS. All bearings 17-10-8.
(lb) - Max Horz 1=528(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 18 except 11=-140(LC 8), 12=-257(LC 11), 13=-130(LC 12), 14=-111(LC 12), 15=-117(LC 12), 16=-113(LC 12), 17=-121(LC 12), 19=-185(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 11, 12, 1, 13, 14, 15, 16, 17, 18 except 19=258(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-687/362, 2-3=-582/316, 3-4=-524/300, 4-6=-452/274, 6-7=-383/250, 7-8=-313/225

- NOTES-**
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Bearing at joint(s) 11 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) 18 except (jt=lb) 11=140, 12=257, 13=130, 14=111, 15=117, 16=113, 17=121, 19=185.



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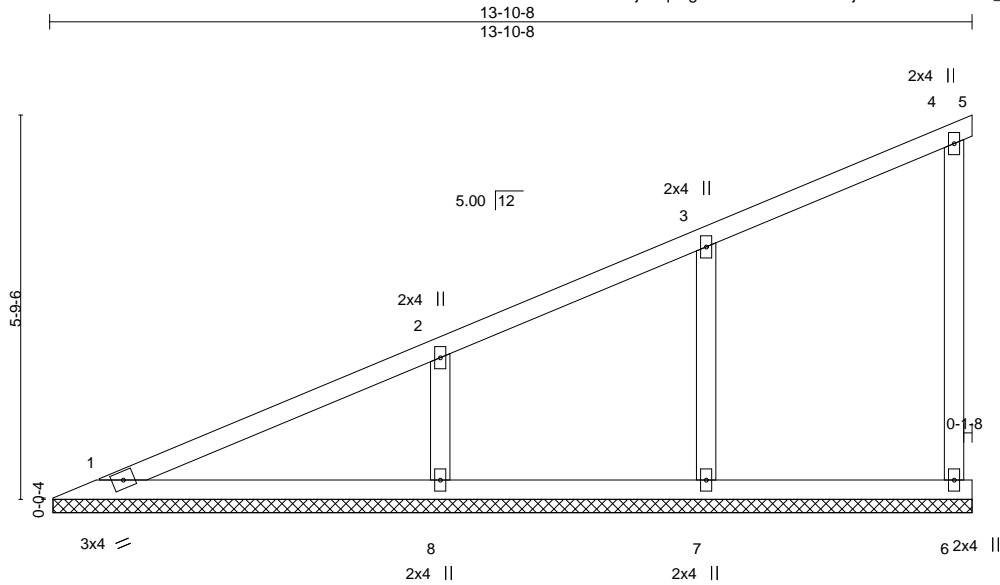
ENGINEERING BY
TRENCO
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339697
MASTER	V21	Valley	5	1	Job Reference (optional)	

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8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:29:02 2020 Page 1
ID:zV7Fc4jHuqlrogucND5EIUzsWfo-LkjSYUbW9JhD57aX_M2RZjoSvoYP0zM_7lg5tUzjDHI



Scale = 1:34.7

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.21	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	-0.01	5	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S						Weight: 57 lb	FT = 20%

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

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

REACTIONS. All bearings 13-9-14.
(lb) - Max Horz 1=380(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) except 5=-103(LC 1), 6=-242(LC 12), 7=-203(LC 12), 8=-312(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=266(LC 2), 7=322(LC 2), 8=432(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-410/161, 4-6=-224/315
WEBS 3-7=-219/311, 2-8=-314/434

- NOTES-**
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 5, 242 lb uplift at joint 6, 203 lb uplift at joint 7 and 312 lb uplift at joint 8.



February 20,2020

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Edenton, NC 27932

Job MASTER	Truss V22	Truss Type Valley	Qty 5	Ply 1	A&G/Cedar/ Job Reference (optional)	140339698
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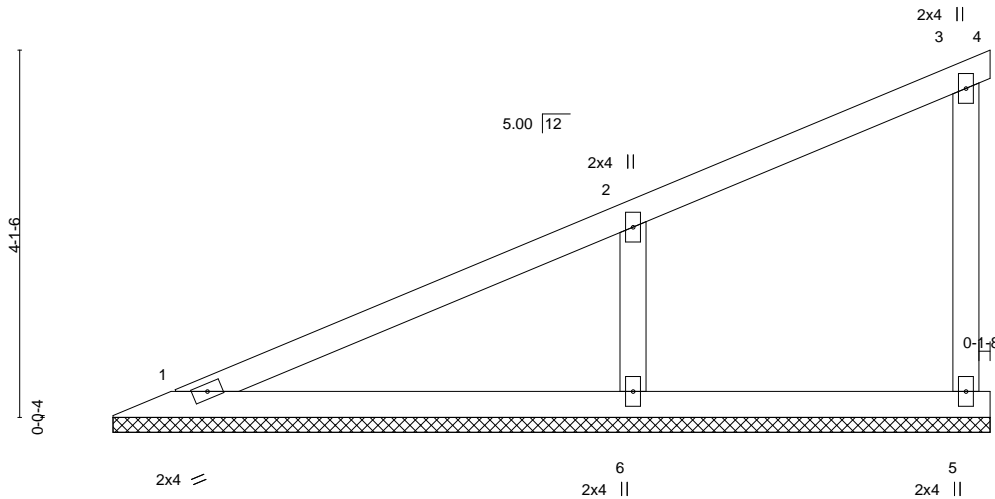
Builders FirstSource, Sumter, SC - 29153,

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9-10-8
9-10-8

Scale = 1:25.8



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 0.34	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.21	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 37 lb	FT = 20%

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

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

REACTIONS. All bearings 9-9-14.
(lb) - Max Horz 1=265(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 4 except 5=-146(LC 12), 6=-316(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 4, 5 except 6=443(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-288/121
WEBS 2-6=-322/495

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Gable requires continuous bottom chord bearing.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 6) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=146, 6=316.



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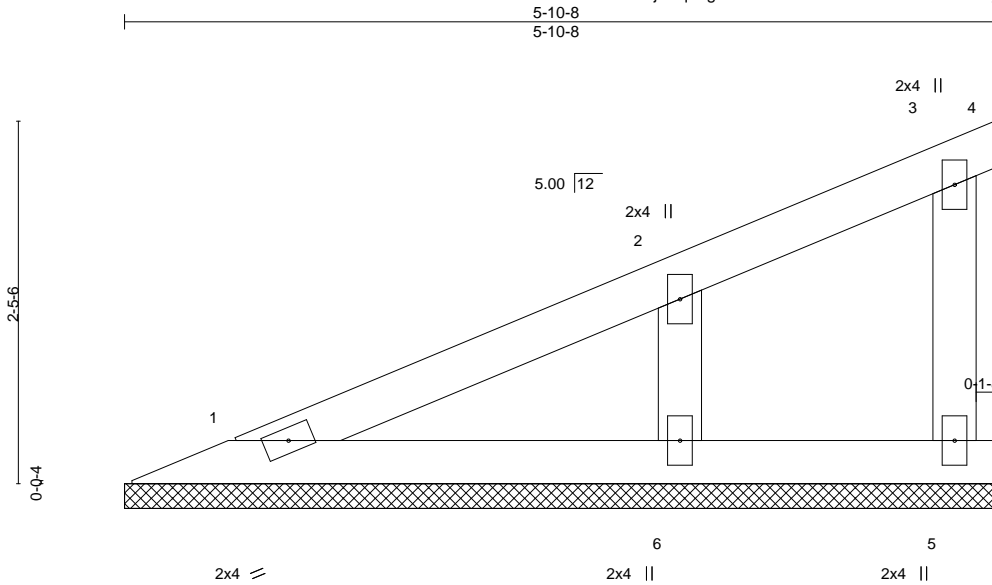
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339699
MASTER	V23	GABLE	5	1		

Builders FirstSource, Sumter, SC - 29153,

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Scale = 1:15.6

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)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 21 lb	FT = 20%

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

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

REACTIONS. All bearings 5-10-8.
 (lb) - Max Horz 1=149(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 4, 5 except 6=183(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 4, 5 except 6=254(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-6=202/345

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Gable requires continuous bottom chord bearing.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 6) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4, 5 except (jt=lb) 6=183.



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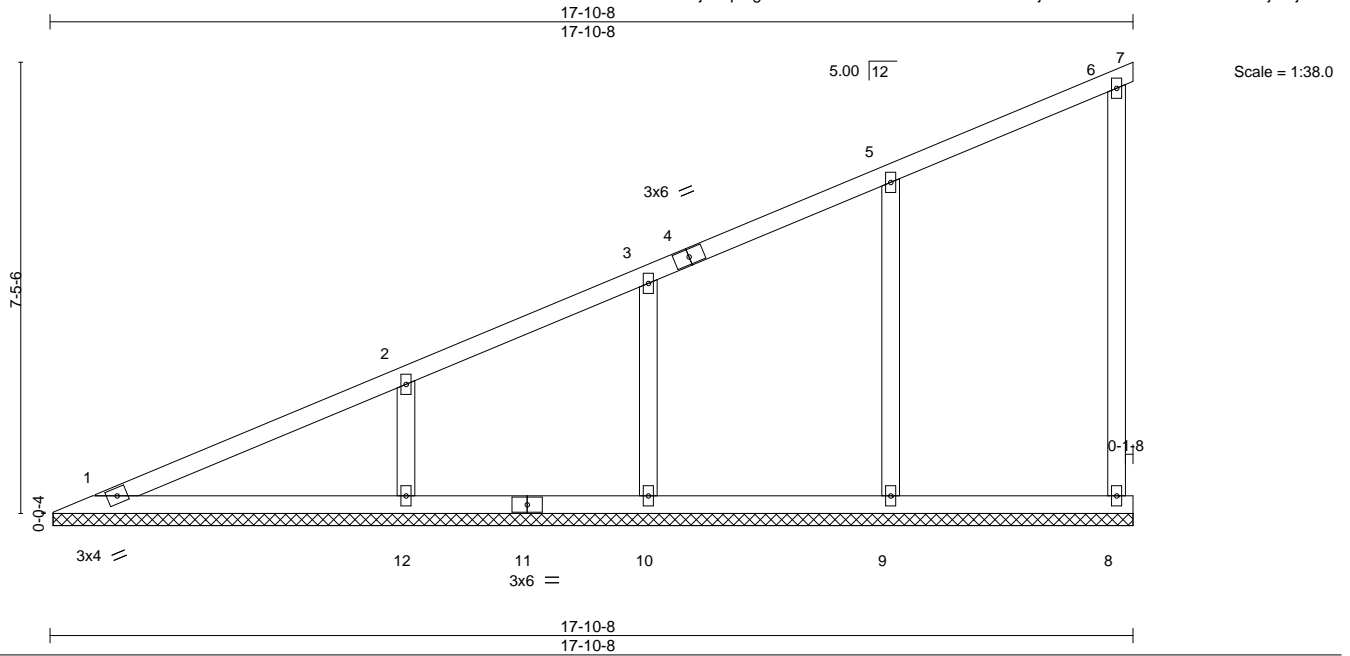
818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339700
MASTER	V24	Valley	3	1	Job Reference (optional)	

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ID:zV7Fc4jHuqlrogucND5EIUzsWfo-I7rDzAdmhwxwKRjw6n4vf8unPbDtUtXHa39BxNzjDHj



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.21	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	-0.01	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 80 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 17-9-14.
 (lb) - Max Horz 1=496(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 7 except 8=196(LC 12), 9=240(LC 12), 10=203(LC 12), 12=312(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 7, 8, 1 except 9=434(LC 2), 10=303(LC 2), 12=434(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-523/200, 2-3=-344/127
 WEBS 5-9=-253/328, 3-10=-214/281, 2-12=-315/403

- NOTES-**
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Bearing at joint(s) 7 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) 7 except (jt=lb) 8=196, 9=240, 10=203, 12=312.



February 20, 2020

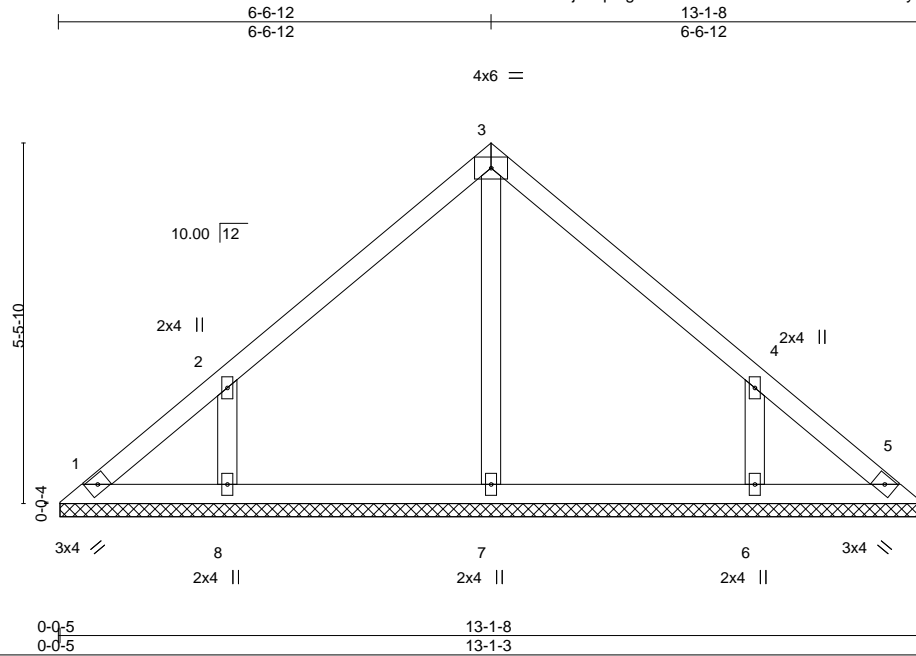
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339701
MASTER	V25	Valley	2	1		

Builders FirstSource, Sumter, SC - 29153,

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ID:zV7Fc4jHuqlrogucND5EIUzsWfo-mJObBWeOSE3nybI6gUb8BMQ_f?bRDKEQpiuITpzjDHI



Scale = 1:34.9

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 0.23	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 55 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. All bearings 13-0-14.
 (lb) - Max Horz 1=228(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=365(LC 12), 6=365(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=251(LC 19), 8=387(LC 19), 6=387(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-431/407, 4-6=-431/406

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=365, 6=365.



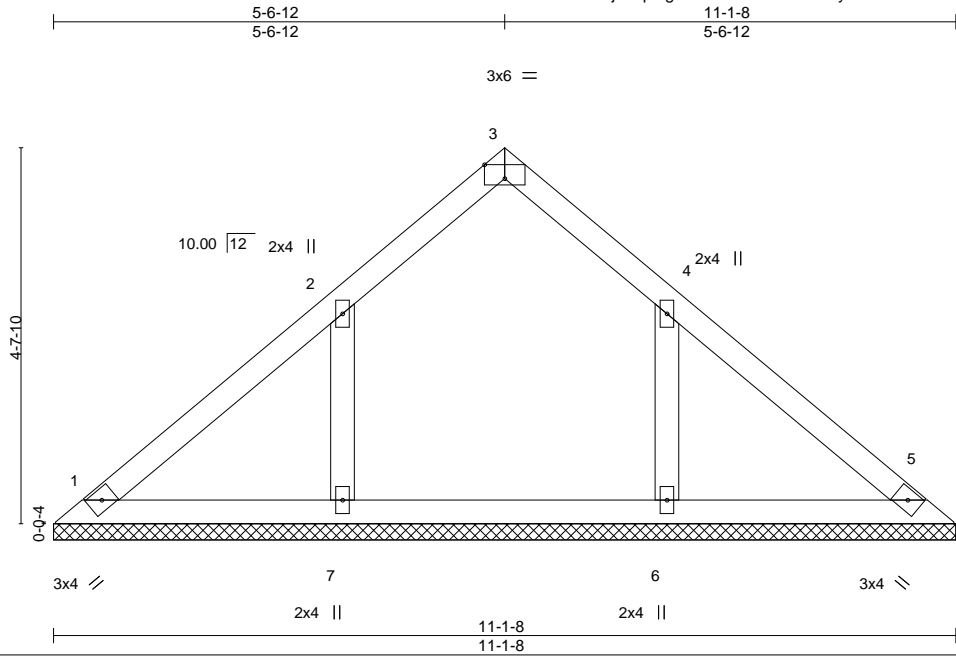
February 20, 2020

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

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339702
MASTER	V26	GABLE	2	1		
Builders FirstSource, Sumter, SC - 29153,						Job Reference (optional)

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:29:06 2020 Page 1
 ID:zV7Fc4jHuqlrogucND5EIUzsWfo-EWyzOrf0DXBealtDC6NkZzALPxvynra2Me10GzjDHH



Scale = 1:28.4

Plate Offsets (X,Y)--	[3:0-3:0,Edge]	
LOADING (psf)	SPACING-	CSI.
TCLL 20.0	2-0-0	TC 0.17
TCDL 10.0	Plate Grip DOL 1.15	BC 0.11
BCLL 0.0 *	Lumber DOL 1.15	WB 0.10
BCDL 10.0	Rep Stress Incr YES	Matrix-S
	Code IRC2015/TPI2014	
DEFL.	DEFL.	PLATES
in (loc) l/defl L/d	in (loc) l/defl L/d	MT20
Vert(LL) n/a - n/a 999	Vert(CT) n/a - n/a 999	GRIP 244/190
Horz(CT) 0.00 5 n/a n/a		Weight: 44 lb FT = 20%

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

REACTIONS. All bearings 11-1-8.
 (lb) - Max Horz 1=-191(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) except 7=-292(LC 12), 6=-289(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=352(LC 19), 6=349(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-7=-360/326, 4-6=-360/324

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 292 lb uplift at joint 7 and 289 lb uplift at joint 6.

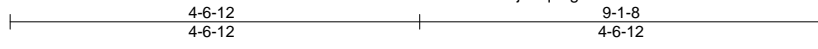


February 20,2020

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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339703
MASTER	V27	GABLE	2	1		
Builders FirstSource, Sumter, SC - 29153,						Job Reference (optional)

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:29:07 2020 Page 1
 ID:zV7Fc4jHuqlrogucND5EIUzsWFO-iiWLBffzrJVBUsvnvecGnWMQpHJhEQjG0NsYizjDHg



3x6 =

Scale = 1:25.7

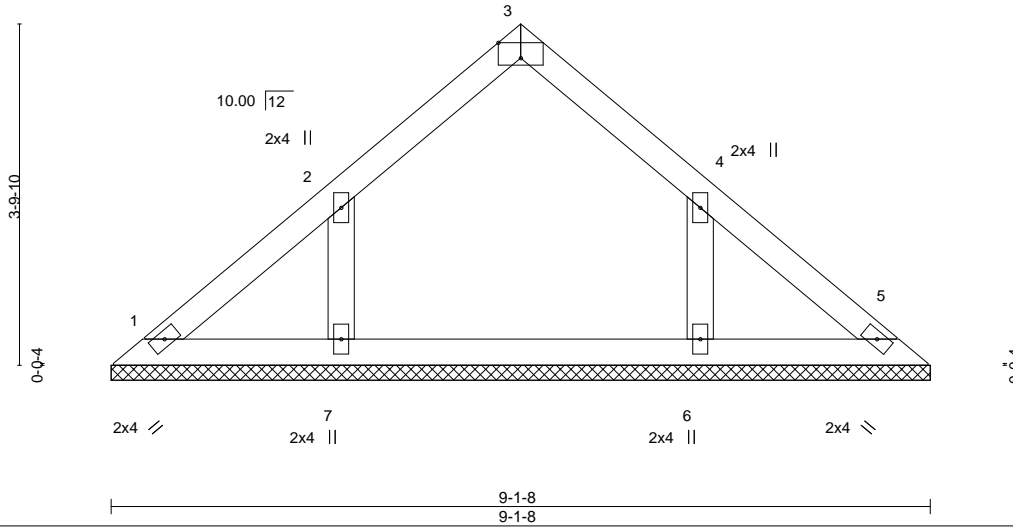


Plate Offsets (X,Y)--	[3:0-3-0,Edge]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 34 lb	FT = 20%

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

REACTIONS. All bearings 9-1-8.
 (lb) - Max Horz 1=-154(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 7=-216(LC 12), 6=-214(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=280(LC 19), 6=277(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-7=-278/256, 4-6=-278/256

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWF RS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWF RS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 7=216, 6=214.



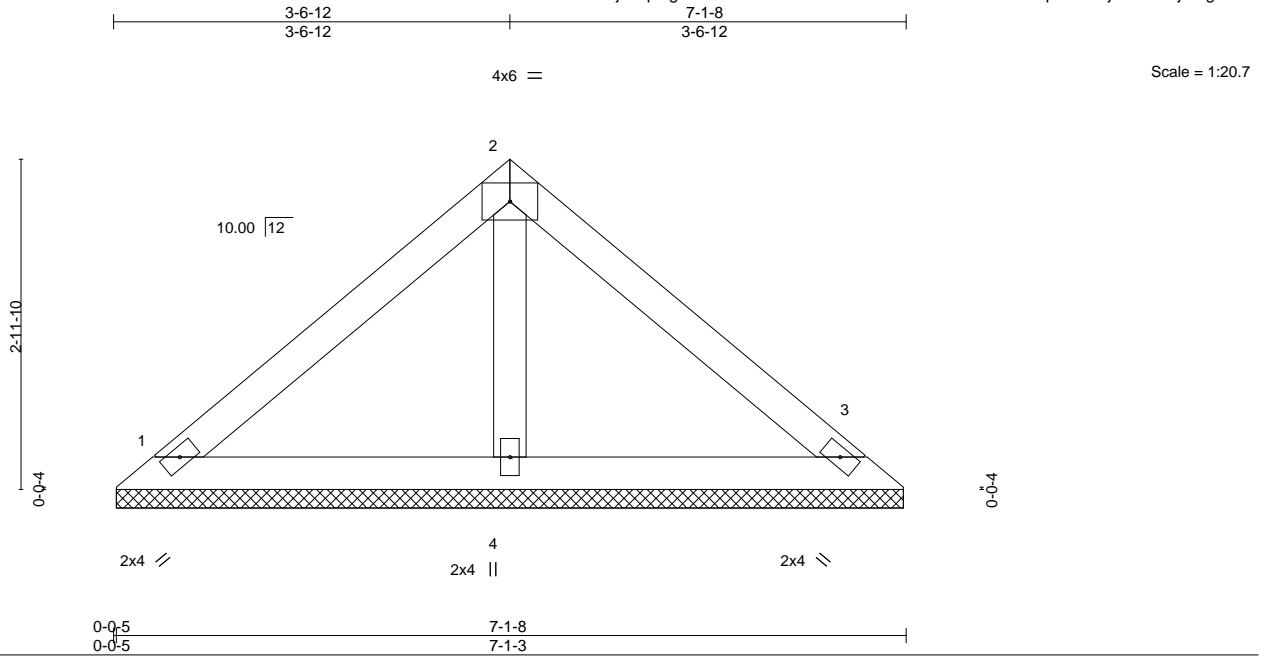
February 20,2020

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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339704
MASTER	V28	Valley	2	1	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:29:07 2020 Page 1
 ID:zV7Fc4jHuqlrogucND5EIUzsWfo-iiWlbBffzrJVbuSVnvecGnWL7pHDhF4jG0NsYizjDHg



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.17	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 26 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) 1=134/7-0-14, 3=134/7-0-14, 4=238/7-0-14
 Max Horz 1=-117(LC 8)
 Max Uplift 1=-68(LC 13), 3=-83(LC 13), 4=-71(LC 12)
 Max Grav 1=134(LC 1), 3=136(LC 20), 4=238(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



February 20,2020

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TRENCO
 A MiTek Affiliate

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 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339705
MASTER	V29	Valley	2	1		

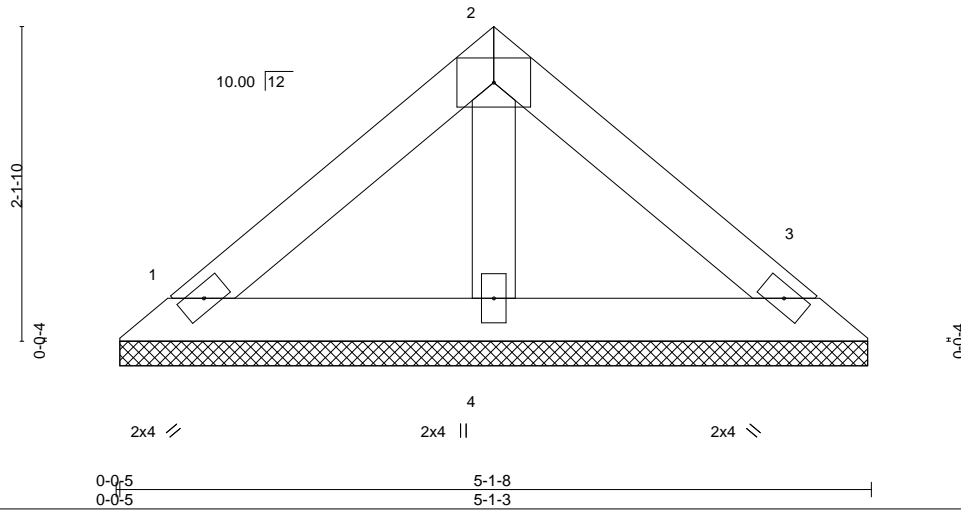
Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:29:08 2020 Page 1
 ID:zV7Fc4jHuqrogucND5EIUzsWFO-Au4jpXgHk9RMp21hLc9rp_2XbCeIQiWtVg7P48zjDHf



4x6 =

Scale = 1:15.6



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 0.12	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 18 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 5-1-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=99/5-0-14, 3=99/5-0-14, 4=147/5-0-14
 Max Horz 1=80(LC 9)
 Max Uplift 1=-58(LC 13), 3=-68(LC 13), 4=-25(LC 12)
 Max Grav 1=99(LC 1), 3=100(LC 20), 4=147(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



February 20, 2020

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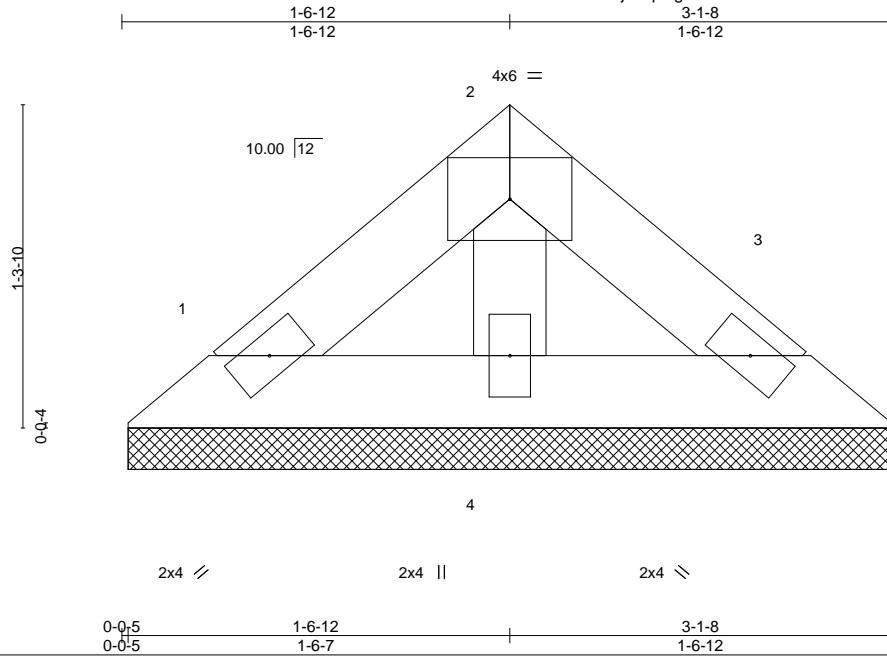


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339706
MASTER	V30	Valley	2	1	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:29:09 2020 Page 1
 ID:zV7Fc4jHuqrogucND5EIUzsWFO-e4e60thvVSZDRcctvKg4MCbjlc_299x0kKsyczjDHe



Scale = 1:9.3

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

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-1-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=53/3-0-14, 3=53/3-0-14, 4=79/3-0-14
 Max Horz 1=-43(LC 8)
 Max Uplift 1=-31(LC 13), 3=-37(LC 13), 4=-14(LC 12)
 Max Grav 1=53(LC 1), 3=54(LC 20), 4=79(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



February 20, 2020

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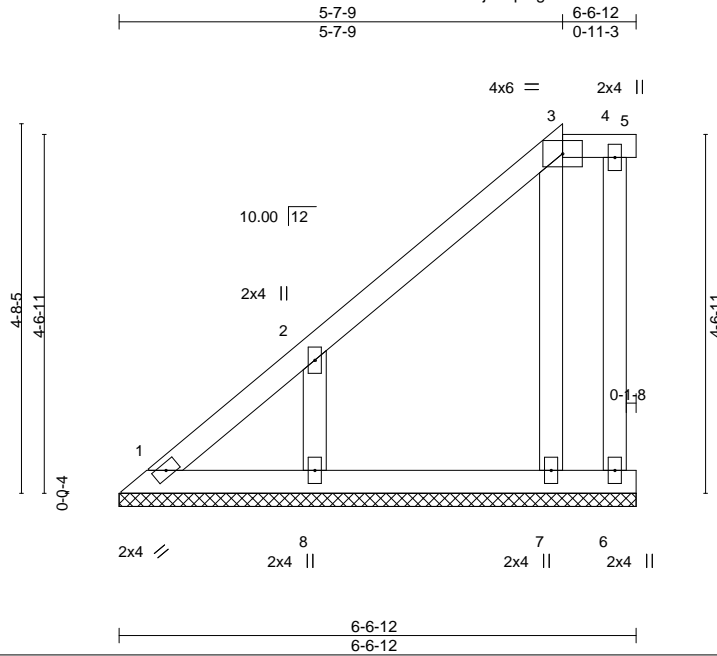


818 Soundside Road
 Edenton, NC 27932

Job MASTER	Truss V31	Truss Type GABLE	Qty 1	Ply 1	A&G/Cedar/ Job Reference (optional)	140339707
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:29:09 2020 Page 1
ID:zV7Fc4jHuqlrogucND5EIUzsWFO-e4e60thvVSZDRcctvKg4MCbgtc_P98K0kKsyczjDHe



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.22	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 35 lb	FT = 20%

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

REACTIONS. All bearings 6-6-12.
 (lb) - Max Horz 1=297(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 6 except 7=104(LC 12), 8=320(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6, 7 except 8=333(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-377/319
 WEBS 2-8=-404/386

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 6 except (jt=lb) 7=104, 8=320.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



February 20, 2020

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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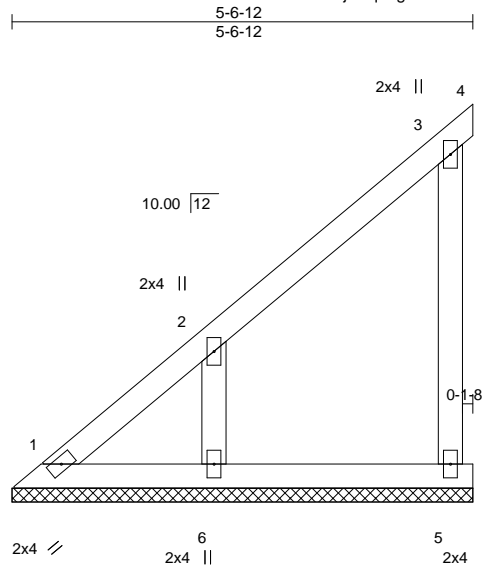
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339708
MASTER	V32	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:29:11 2020 Page 1

ID:zV7Fc4jHuqlrogucND5EIUzsWFO-bTmsRZi914pxgWmG0liYRdg12Qekd20JBeL3hTzjDHC



Scale = 1:27.8

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 0.18	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 26 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-6-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 5-6-12.
 (lb) - Max Horz 1=298(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 4 except 5=-278(LC 12), 6=-270(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 4, 5 except 6=300(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-374/308, 3-5=-335/323
 WEBS 2-6=-353/340

- NOTES-**
- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be User Defined crushing capacity of 565 psi.
 - 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 capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=278, 6=270.



February 20, 2020

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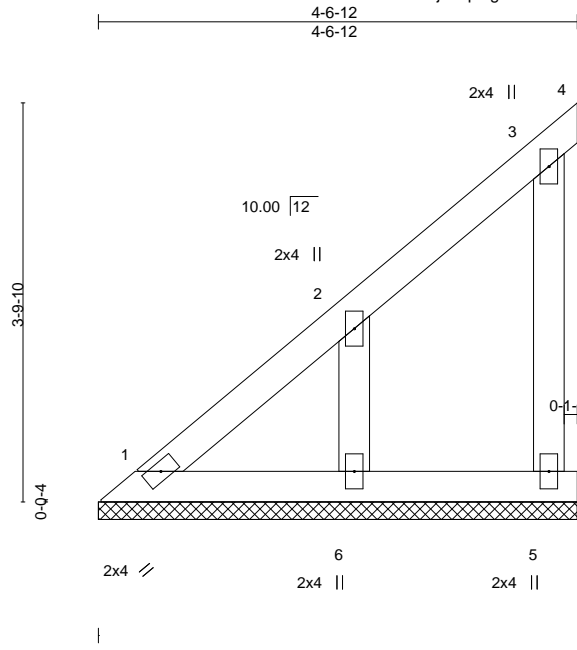
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Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339709
MASTER	V33	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:29:11 2020 Page 1

ID:zv7Fc4jHuqlrogucND5EIUzsWfo-bTmsRZi914pxgWmG0liYRdg2xQf9d2JJBeL3hTzjDHC



Scale = 1:22.0

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)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 22 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-6-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 4-6-12.
 (lb) - Max Horz 1=241(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 4 except 5=-110(LC 12), 6=-221(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 4, 5, 6

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-284/234
 WEBS 2-6=-288/279

NOTES-

- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 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 capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=110, 6=221.



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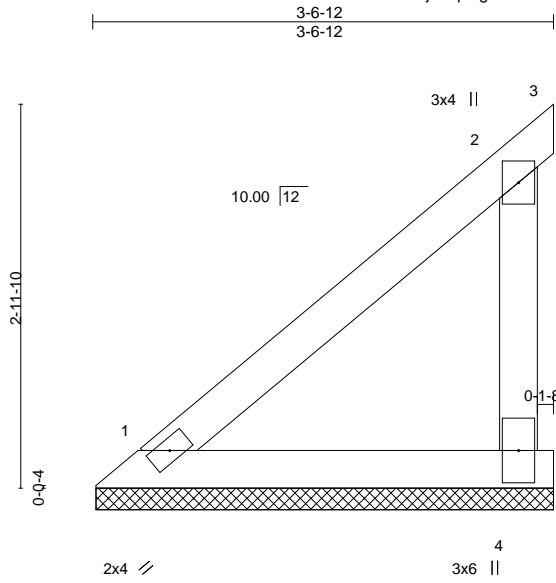


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339710
MASTER	V34	Valley	1	1	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:29:12 2020 Page 1
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Scale = 1:17.8

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

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-6-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=101/3-6-7, 3=-148/3-6-7, 4=295/3-6-7
 Max Horz 1=183(LC 12)
 Max Uplift 3=-202(LC 19), 4=-449(LC 12)
 Max Grav 1=101(LC 1), 3=260(LC 12), 4=391(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-538/521

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 6) Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=202, 4=449.



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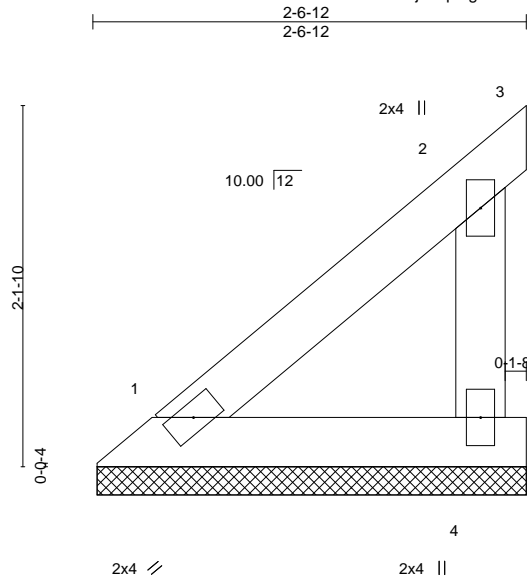
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	A&G/Cedar/	140339711
MASTER	V35	Valley	1	1	Job Reference (optional)	

Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:29:13 2020 Page 1

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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 0.08	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 10 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-6-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=67/2-6-7, 3=-51/2-6-7, 4=151/2-6-7
Max Horz 1=125(LC 12)
Max Uplift 3=-69(LC 19), 4=-220(LC 12)
Max Grav 1=67(LC 1), 3=88(LC 12), 4=199(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-267/258

NOTES-

- Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 565 psi.
- Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 4=220.



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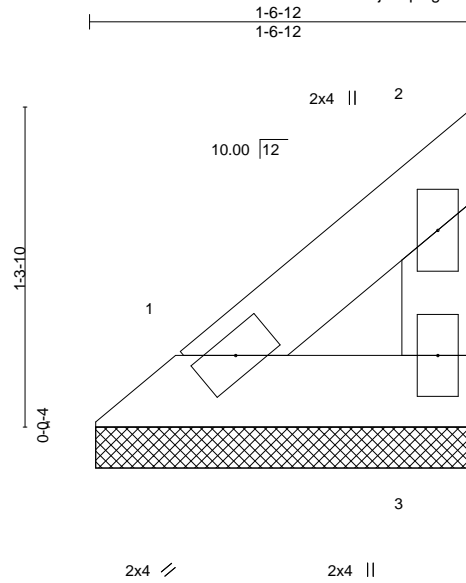
818 Soundside Road
Edenton, NC 27932

Job MASTER	Truss V36	Truss Type Valley	Qty 1	Ply 1	A&G/Cedar/ Job Reference (optional)	140339712
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Builders FirstSource, Sumter, SC - 29153,

8.240 s Feb 7 2020 MiTek Industries, Inc. Thu Feb 20 14:29:15 2020 Page 1

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Scale = 1:9.4

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 0.03	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 6 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 1-6-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=41/1-6-7, 3=41/1-6-7
 Max Horz 1=59(LC 12)
 Max Uplift 3=47(LC 12)
 Max Grav 1=41(LC 1), 3=52(LC 19)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.



February 20,2020

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

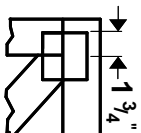
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



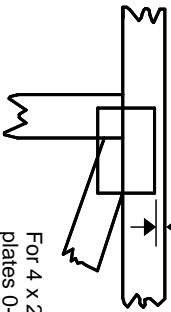
818 Soundside Road
 Edenton, NC 27932

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



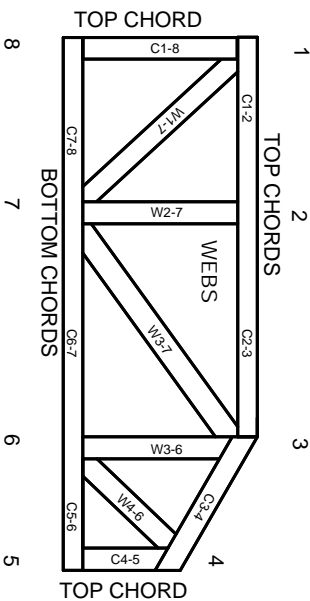
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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.