ENGINEERING BY TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

RE: 1238844_Master - H&H-NC/Wilmington/

Site Information:

Project Customer: H and H Project Name: 1238844
Lot/Block: Subdivision:
Model:
Address:
City: State: NC

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

Design Code: IRC2009/TPI2007
Design Program: MiTek 20/20 7.6
Wind Code: ASCE 7-05 Wind Speed: 100 mph
Design Method: MWFRS(low-rise)/C-C hybrid Wind ASCE 7-05
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	I31241136	A01	10/3/17	35	I31241170	J06	10/3/17
2	I31241137	A02	10/3/17	36	I31241171	J07	10/3/17
3	I31241138	A03	10/3/17	37	I31241172	J08	10/3/17
4	I31241139	A04	10/3/17	38	I31241173	J09	10/3/17
5	I31241140	A04A	10/3/17	39	I31241174	J10	10/3/17
6	I31241141	A05	10/3/17	40	I31241175	J11	10/3/17
7	I31241142	A05A	10/3/17	41	I31241176	J12	10/3/17
8	I31241143	A06	10/3/17	42	I31241177	J13	10/3/17
9	I31241144	A07	10/3/17	43	I31241178	J14	10/3/17
10	I31241145	A08	10/3/17	44	I31241179	J15	10/3/17
11	I31241146	A09	10/3/17	45	I31241180	PB01	10/3/17
12	I31241147	A10	10/3/17	46	I31241181	PB02	10/3/17
13	I31241148	A11	10/3/17	47	I31241182	PB03	10/3/17
14	I31241149	B01	10/3/17				
15	I31241150	B02	10/3/17				
16	I31241151	B03	10/3/17				
17	I31241152	B04	10/3/17				
18	I31241153	C01	10/3/17				
19	I31241154	C02	10/3/17				
20	I31241155	C03	10/3/17				
21	I31241156	C04	10/3/17				
22	I31241157	CP01	10/3/17				
23	I31241158	CP02	10/3/17				
24	I31241159	D01	10/3/17				
25	I31241160	FG01	10/3/17				
26	I31241161	FG02	10/3/17				
27	I31241162	G01	10/3/17				
28	I31241163	G02	10/3/17				
29	I31241164	G03	10/3/17				
30	I31241165	J01	10/3/17				
31	I31241166	J02	10/3/17				
32	I31241167	J03	10/3/17				
33	I31241168	J04	10/3/17				
34	I31241169	J05	10/3/17				

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

Truss Design Engineer's Name: Galinski, John
My license renewal date for the state of North Carolina is December 31, 2017.

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.

October 3,2017

Galinski, John

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	A01	HIP GIRDER	5	2	I31241136
					Job Reference (optional)

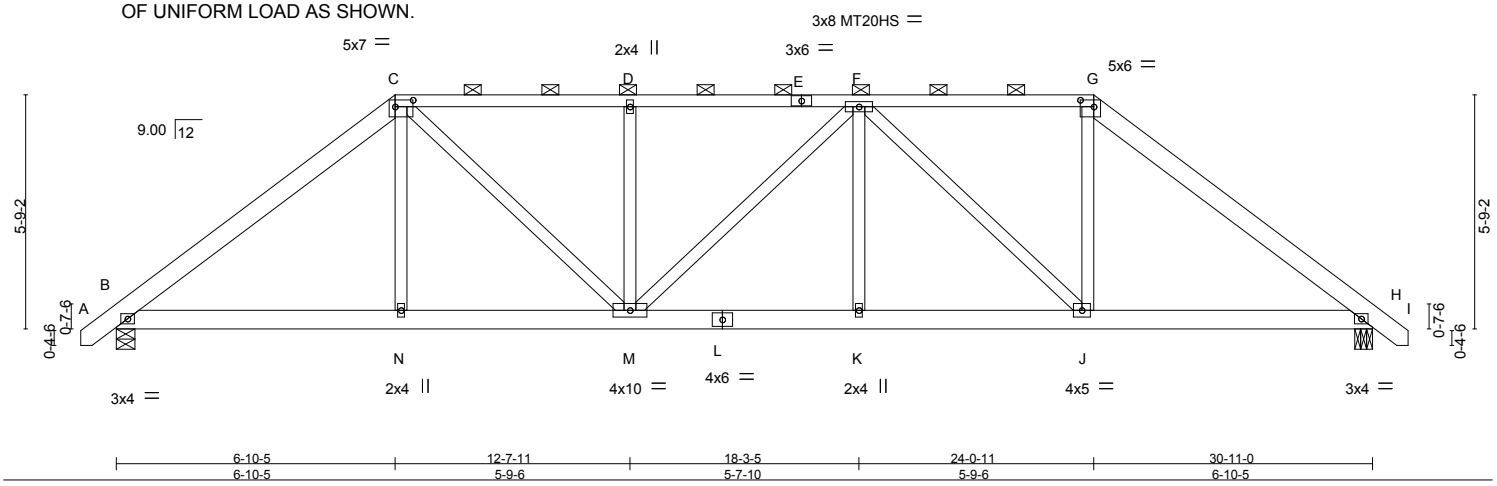
Builders FirstSource, Sumter, SC 29153

7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:17 2017 Page 1
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-E0PGmh0tX4zckbzVhKMVxRcTN2V21F_bepJTnJyXBde

0-10-8	6-10-5	12-7-11	18-3-5	24-0-11	30-11-0	31-9-8
0-10-8	6-10-5	5-9-6	5-7-10	5-9-6	6-10-5	0-10-8

THIS TRUSS IS DESIGNED TO SUPPORT ONLY 2'-0"
OF UNIFORM LOAD AS SHOWN.

Scale = 1:56.7



6-10-5	12-7-11	18-3-5	24-0-11	30-11-0
6-10-5	5-9-6	5-7-10	5-9-6	6-10-5

Plate Offsets (X,Y)-- [C:0-5-4,0-2-0], [G:0-4-0,0-2-0]

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	0.22	Vert(LL)	-0.03	K-M	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(TL)	-0.08	K-M	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.16	Horz(TL)	0.03	H	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-M)		Wind(LL)	0.03	K-M	>999	240	Weight: 413 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
C-E,E-G: 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): C-G.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) B=1281/0-5-8, H=1281/0-5-4
Max Horz B=-163(LC 4)
Max Uplift B=-163(LC 5), H=-163(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1689/262, C-D=-1732/329, D-E=-1732/329, E-F=-1732/329, F-G=-1258/258, G-H=-1686/261
BOT CHORD B-N=-253/1244, M-N=-252/1248, L-M=-291/1735, K-L=-291/1735, J-K=-291/1735, H-J=-120/1242
WEBS C-N=0/271, C-M=-233/724, D-M=-359/185, F-J=-720/234, G-J=-62/623

NOTES-
1) 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.
2) 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.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=163, H=163.
11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
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	H&H-NC/Wilmington/
1238844_MASTER	A02	HIP	5	1	I31241137
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:17 2017 Page 1
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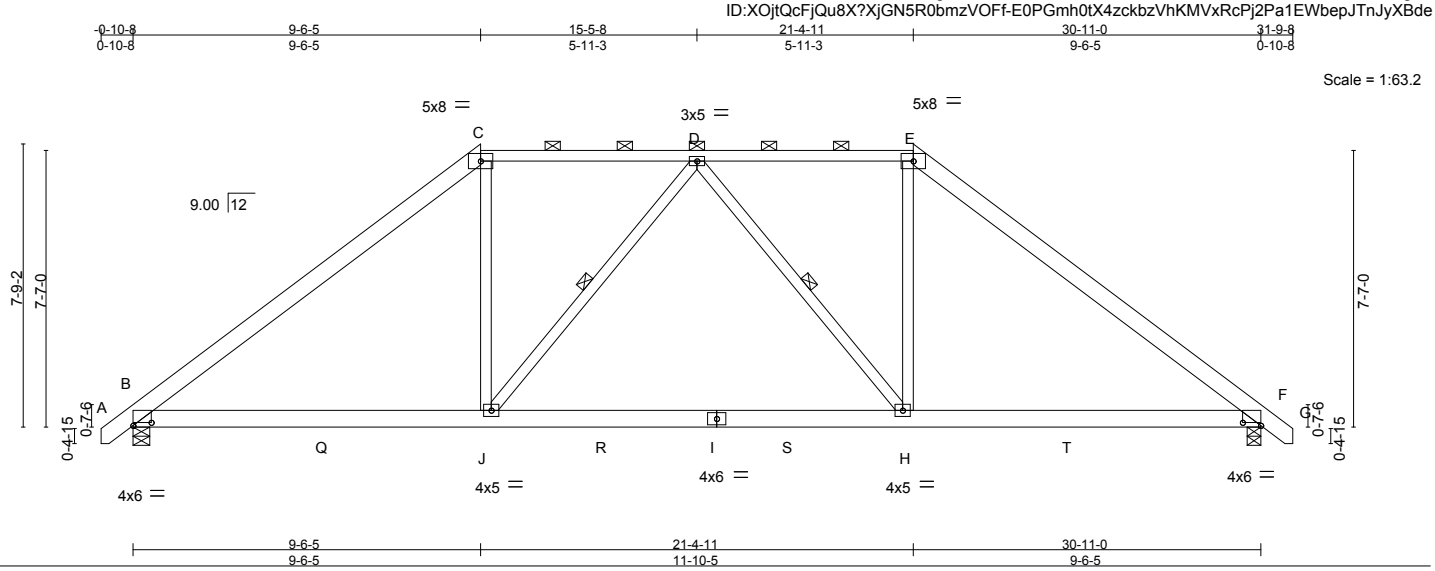

Plate Offsets (X,Y)-- [B:0-6-0,0-1-0], [F:0-6-0,0-1-0]

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	0.45	Vert(LL)	-0.14	H-J	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(TL)	-0.29	H-J	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.25	Horz(TL)	0.05	F	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.08	J-M	>999	240	Weight: 198 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (4-10-9 max.): C-E.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt D-J, D-H

REACTIONS. (lb/size) B=1283/0-5-8, F=1283/0-4-8
Max Horz B=-219(LC 6)
Max Uplift B=-110(LC 8), F=-110(LC 9)
Max Grav B=1331(LC 2), F=1331(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1735/523, C-D=-1294/549, D-E=-1294/549, E-F=-1735/523
BOT CHORD B-Q=-185/1283, J-Q=-185/1283, J-R=-265/1408, I-R=-265/1408, I-S=-265/1408, H-S=-265/1408, H-T=-181/1283, F-T=-181/1283
WEBS C-J=-24/614, D-J=-315/228, D-H=-315/228, E-H=-24/614

NOTES- (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=110, F=110.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" 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.
10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	A03	Hip	5	1	I31241138
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:18 2017 Page 1

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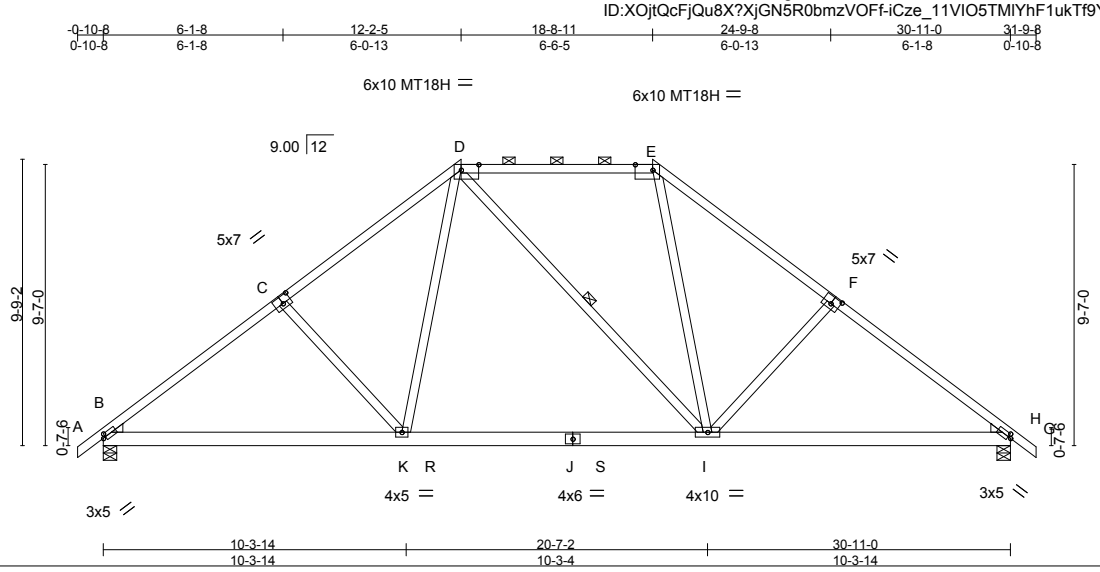

Plate Offsets (X,Y)-- [B:0-1-2,0-1-8], [C:0-3-8,0-3-0], [D:0-7-3,Edge], [E:0-7-3,Edge], [F:0-3-8,0-3-0], [G:0-1-2,0-1-8]

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	0.58	Vert(LL)	-0.16	I-K	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(TL)	-0.27	I-K	>999	240	MT18H	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Horz(TL)	0.04	G	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.04	K	>999	240	Weight: 195 lb	FT = 20%

LUMBER-

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

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-8-11 max.): D-E.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt D-I

REACTIONS. (lb/size) B=1289/0-5-8, G=1289/0-5-8
Max Horz B=279(LC 7)
Max Uplift B=-129(LC 8), G=-129(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1699/596, C-D=-1465/611, D-E=-1003/555, E-F=-1465/611, F-G=-1699/596
BOT CHORD B-K=-321/1281, K-R=-111/1002, J-R=-111/1002, J-S=-111/1002, I-S=-111/1002, G-I=-323/1281
WEBS C-K=-288/316, D-K=-115/523, E-I=-114/516, F-I=-287/316

NOTES- (11)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=129, G=129.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" 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.
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	A04	PIGGYBACK BASE	55	1	I31241139
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:19 2017 Page 1
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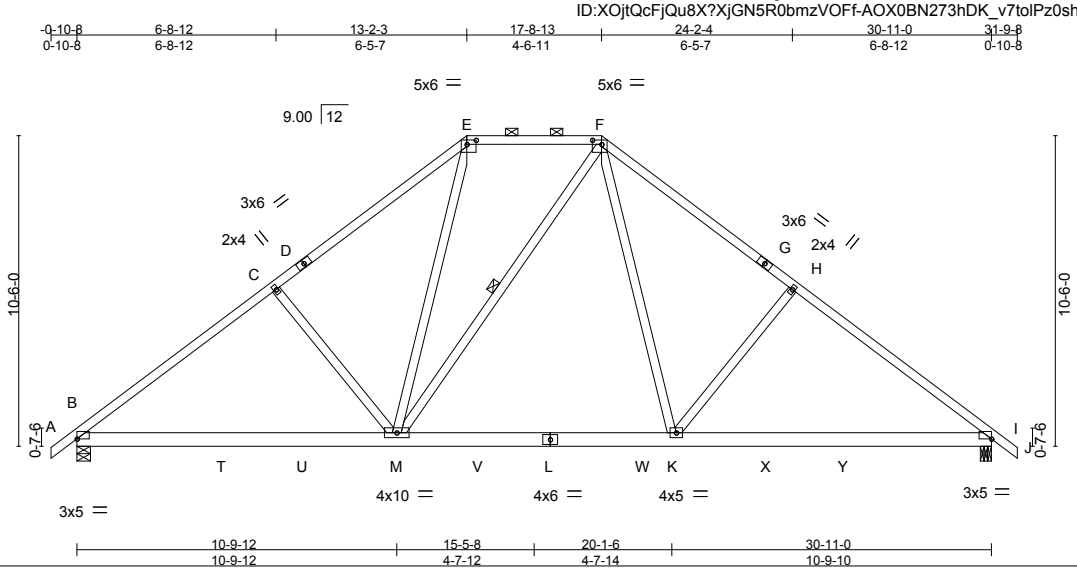

Plate Offsets (X,Y)-- [E:0-3-12,0-1-12], [F:0-3-12,0-1-12]

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	0.43	Vert(LL)	-0.10	K-M	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(TL)	-0.26	K-S	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.35	Horz(TL)	0.04	I	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.05	K-S	>999	240	Weight: 198 lb	FT = 20%

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

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

REACTIONS. (lb/size) B=1289/0-5-8, I=1289/0-4-8
Max Horz B=-306(LC 6)
Max Uplift B=-133(LC 8), I=-133(LC 9)
Max Grav B=1289(LC 1), I=1294(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1686/589, C-D=-1487/583, D-E=-1380/626, E-F=-964/550, F-G=-1396/627, G-H=-1504/583, H-I=-1703/589
BOT CHORD B-T=-304/1282, T-U=-304/1282, M-U=-304/1282, M-V=-41/971, L-V=-41/971, L-W=-41/971, K-W=-41/971, K-X=-306/1295, X-Y=-306/1295, I-Y=-306/1295
WEBS C-M=-344/360, E-M=-170/585, F-K=-171/612, H-K=-345/361

NOTES- (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=133, I=133.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" 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.
10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	A04A	PIGGYBACK BASE	14	1	I31241140
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:19 2017 Page 1
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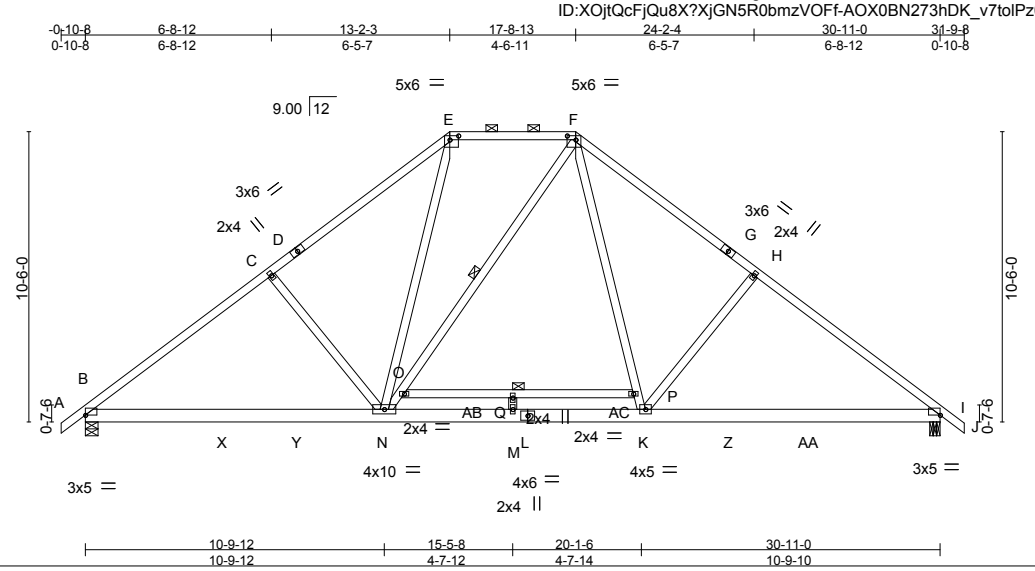


Plate Offsets (X,Y)-- [E:0-3-12,0-1-12], [F:0-3-12,0-1-12]

LOADING (psf)		SPACING- 2-0-12		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.12	M	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(TL)	-0.27	K-W	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.36	Horz(TL)	0.04	I	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-M)		Wind(LL)	0.05	K-W	>999	240	Weight: 211 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins, except 2-0-0 oc purlins (5-9-8 max.): E-F.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt O-P, F-N

REACTIONS. (lb/size) B=1329/0-5-8, I=1329/0-4-8
Max Horz B=-316(LC 6)
Max Uplift B=-137(LC 8), I=-137(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1735/608, C-D=-1521/603, D-E=-1409/647, E-F=-984/566, F-G=-1424/647, G-H=-1538/603, H-I=-1743/608
BOT CHORD B-X=-315/1312, X-Y=-315/1312, N-Y=-315/1312, M-N=-40/987, L-M=-40/987, K-L=-40/987, K-Z=-316/1325, Z-AA=-316/1325, I-AA=-316/1325
WEBS C-N=-358/375, E-N=-179/657, F-P=-180/687, K-P=-181/630, H-K=-359/375

NOTES- (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=137, I=137.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

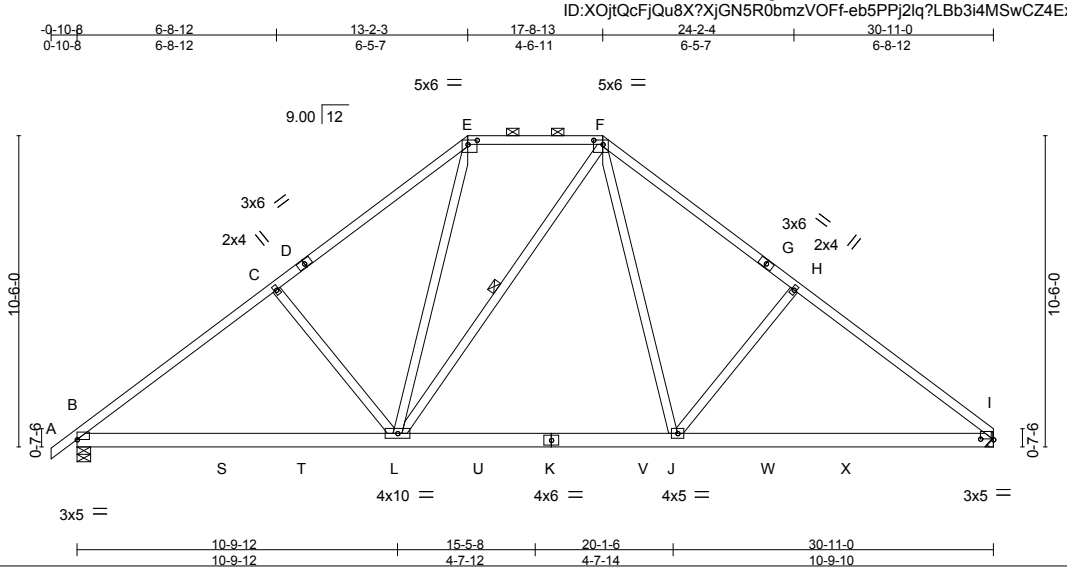
LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-E=-62, E-F=-62, F-J=-62, R-U=-21

October 3,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	A05	PIGGYBACK BASE	28	1	I31241141
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:20 2017 Page 1
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-eb5PPj2lq?LBb3i4MSwCZ4ExHGRoEZj2KnX7OeyXBdb



Scale = 1:77.7

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.10	J-L	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(TL)	-0.26	J-R	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.35	Horz(TL)	0.04	I	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.05	J-R	>999	240	Weight: 196 lb	FT = 20%

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

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

REACTIONS. (lb/size) B=1290/0-5-8, I=1236/Mechanical
Max Horz B=321(LC 7)
Max Uplift B=-133(LC 8), I=-93(LC 9)
Max Grav B=1290(LC 1), I=1250(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1687/590, C-D=-1488/585, D-E=-1381/628, E-F=-965/551, F-G=-1399/629, G-H=-1507/586, H-I=-1705/591
BOT CHORD B-S=-334/1282, S-T=-334/1282, L-T=-334/1282, L-U=-70/973, K-U=-70/973, K-V=-70/973, J-V=-70/973, J-W=-335/1297, W-X=-335/1297, I-X=-335/1297
WEBS C-L=-344/360, E-L=-171/586, F-J=-174/615, H-J=-346/361

NOTES- (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) 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) I except (jt=lb) B=133.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" 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.
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

October 3,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	A05A	PIGGYBACK BASE	35	1	I31241142
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:20 2017 Page 1

ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-eb5PPj2lq?LBb3i4MSwCZ4EwEGPkEZp2KnX7OeyXBdb

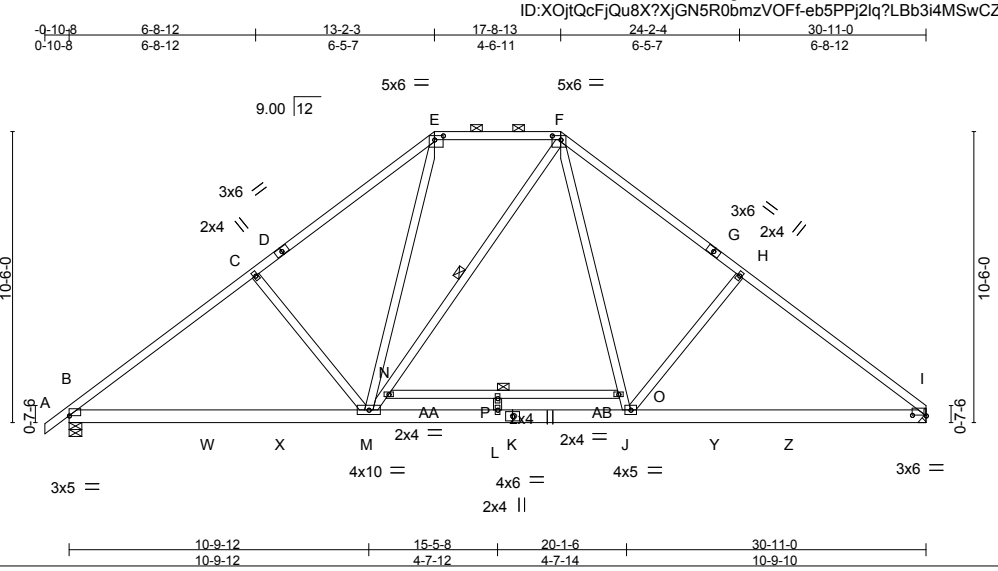


Plate Offsets (X,Y)-- [E:0-3-12,0-1-12], [F:0-3-12,0-1-12], [I:0-6-0,0-0-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.14	L	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(TL)	-0.26	J-V	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.35	Horz(TL)	0.04	I	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.05	J-V	>999	240	Weight: 209 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-9-10 max.): E-F.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt N-O, F-M

REACTIONS. (lb/size) B=1290/0-5-8, I=1236/Mechanical
Max Horz B=321(LC 7)
Max Uplift B=-133(LC 8), I=-93(LC 9)
Max Grav B=1298(LC 2), I=1259(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1707/590, C-D=-1508/585, D-E=-1401/628, E-F=-978/552, F-G=-1412/630, G-H=-1520/586, H-I=-1718/591
BOT CHORD B-W=-334/1298, W-X=-334/1298, M-X=-334/1298, L-M=-69/984, K-L=-69/984, J-K=-69/984, J-Y=-335/1308, Y-Z=-335/1308, I-Z=-335/1308
WEBS C-M=-344/360, E-M=-171/663, F-O=-174/681, J-O=-175/623, H-J=-346/361

NOTES- (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) 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) I except (jt=lb) B=133.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" 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.
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-E=-60, E-F=-60, F-I=-60, Q-T=-20

October 3,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	A06	Piggyback Base Supported Gable	8	1	I31241143 Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:21 2017 Page 1
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-6nfnc23NbJT2DDHGwARR5HnA4fv5z4cBZRHgw4yXBda

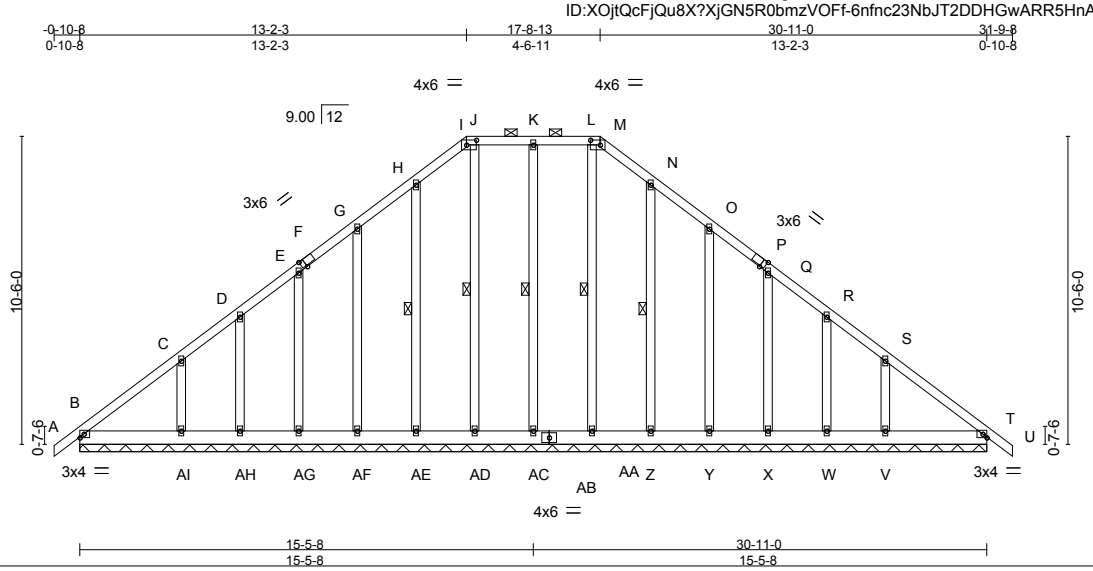


Plate Offsets (X,Y)-- [F:0-1-13,Edge], [I:0-4-0,0-2-0], [M:0-4-0,0-2-0], [P:0-1-13,Edge]

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	0.11	Vert(LL)	0.00	U	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	0.00	U	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(TL)	0.01	T	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix)							Weight: 257 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, except 2-0-0 oc purlins (6-0-0 max.): I-M.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt K-AC, J-AD, H-AE, L-AA, N-Z

REACTIONS. All bearings 30-11-0.
(lb) - Max Horz B=-395(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) T, AC, AD, AE, AH, Z, W except B=-103(LC 6), AF=-119(LC 8), AG=-118(LC 8), AI=-201(LC 8), Y=-121(LC 9), X=-117(LC 9), V=-199(LC 9)
Max Grav All reactions 250 lb or less at joint(s) B, T, AC, AD, AE, AF, AG, AH, AA, Z, Y, X, W except AI=267(LC 13), V=267(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-341/225, H-I=-62/295, I-J=-21/268, J-K=-21/268, K-L=-21/268, L-M=-21/268, M-N=-62/295, S-T=-258/119
BOT CHORD B-AI=-79/297, AH-AI=-79/297, AG-AH=-79/297, AF-AG=-79/297, AE-AF=-79/297, AD-AE=-79/297, AC-AD=-79/297, AB-AC=-79/297, AA-AB=-79/297, Z-AA=-79/297, Y-Z=-79/297, X-Y=-79/297, W-X=-79/297, V-W=-79/297, T-V=-79/297

NOTES- (14)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) T, AC, AD, AE, AH, Z, W except (jt=lb) B=103, AF=119, AG=118, AI=201, Y=121, X=117, V=199.
12) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

October 3,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	A07	PIGGYBACK BASE	5	1	I31241144
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:22 2017 Page 1

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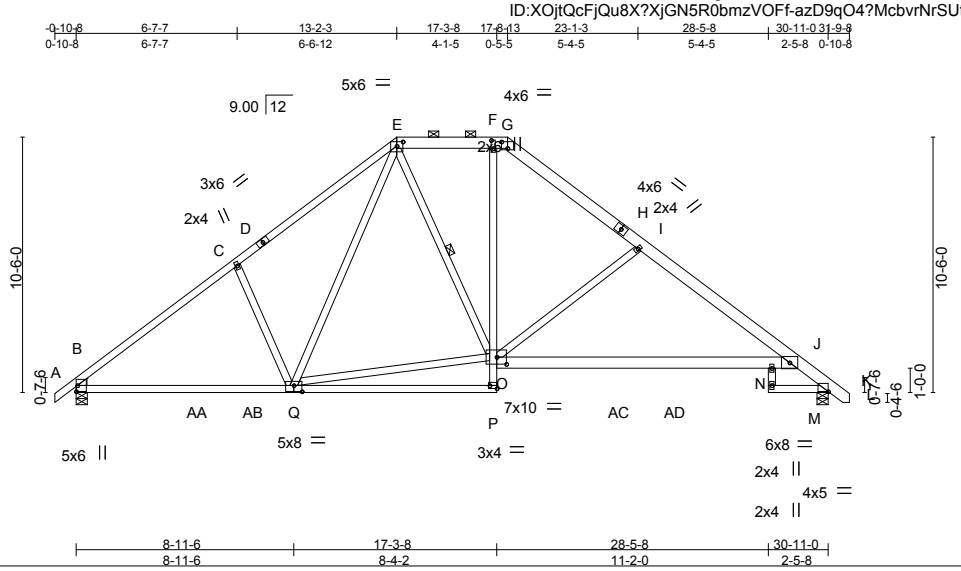

Plate Offsets (X,Y)-- [E:0-3-0,0-2-2], [F:0-4-0,0-1-0], [G:0-3-0,0-3-4], [O:0-4-12,0-3-8], [P:Edge,0-1-8], [Q:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.21	N-O	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(TL)	-0.63	N-O	>585	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(TL)	0.20	K	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.14	N-O	>999	240	Weight: 214 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except* E-G,G-H: 2x6 SP No.2, H-L: 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except* J-O: 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE Left: 2x4 SP No.3

BRACING-

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

REACTIONS. (lb/size) K=1307/0-5-8, B=1263/0-5-8
Max Horz B=-306(LC 6)
Max Uplift K=-127(LC 9), B=-133(LC 8)

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

TOP CHORD B-C=-1635/564, C-D=-1484/645, D-E=-1360/688, E-F=-989/530, F-G=-994/527, G-H=-1335/566, H-I=-1366/528, I-J=-1686/616
BOT CHORD B-AA=-285/1225, AA-AB=-285/1225, Q-AB=-285/1225, F-O=-174/541, O-AC=-299/1348, AC-AD=-299/1348, N-AD=-299/1348, J-N=-299/1348
WEBS C-Q=-334/360, E-Q=-240/405, O-Q=-49/1023, I-O=-451/353

NOTES- (10)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) K=127, B=133.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" 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.
10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

October 3,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	A08	PIGGYBACK BASE	4	1	I31241145
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:23 2017 Page 1
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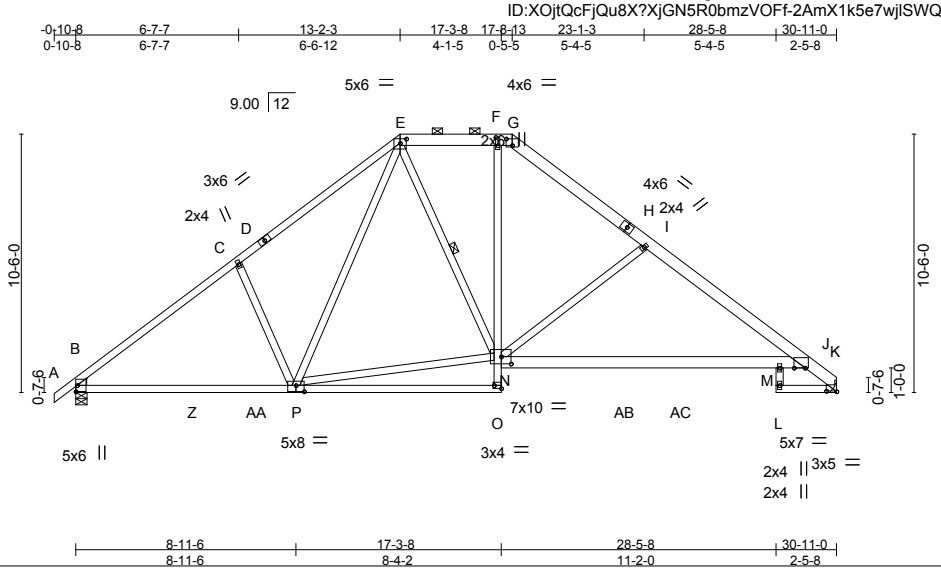


Plate Offsets (X,Y)-- [E:0-3-0,0-2-2], [F:0-4-0,0-1-0], [G:0-3-0,0-3-4], [J:0-5-7,0-0-0], [K:0-5-0,0-0-4], [N:0-4-12,0-3-8], [O:Edge,0-1-8], [P:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.21	M-N	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(TL)	-0.63	M-N	>584	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.55	Horz(TL)	0.20	K	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.14	M-N	>999	240	Weight: 211 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
E-G,G-H: 2x6 SP No.2, H-K: 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
J-N: 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

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

REACTIONS. (lb/size) K=1263/Mechanical, B=1263/0-5-8
Max Horz B=318(LC 7)
Max Uplift K=-94(LC 9), B=-133(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1636/564, C-D=-1485/645, D-E=-1361/687, E-F=-990/533, F-G=-994/530, G-H=-1336/570, H-I=-1367/533, I-J=-1688/621
BOT CHORD B-Z=-310/1226, Z-AA=-310/1226, P-AA=-310/1226, F-N=-177/541, N-AB=-327/1350, AB-AC=-327/1350, M-AC=-327/1350, J-M=-327/1350
WEBS C-P=-334/360, E-P=-234/404, N-P=-69/1024, I-N=-453/356

NOTES- (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) 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) K except (jt=lb) B=133.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" 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.
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

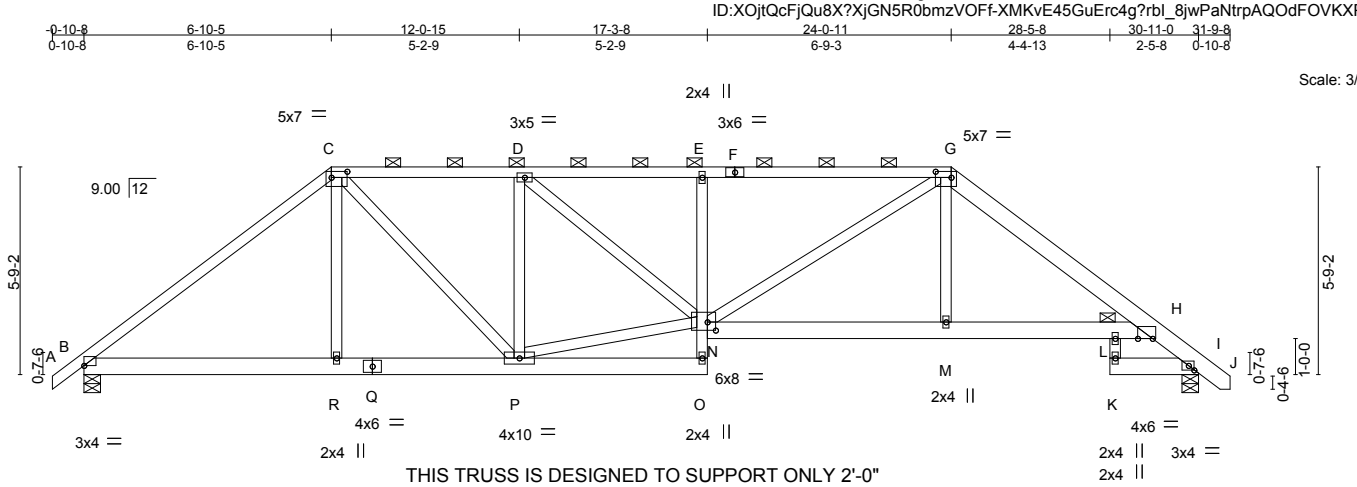
October 3,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	A09	HIP GIRDER	1	2	I31241146
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:24 2017 Page 1
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-XMKvE45GuErc4g?rbI_8jwPaNtrpAQOdFOVKXPyXBdX



THIS TRUSS IS DESIGNED TO SUPPORT ONLY 2'-0" OF UNIFORM LOAD AS SHOWN.

6-10-5 12-0-15 17-3-8 24-0-11 28-5-8 30-11-0
6-10-5 5-2-9 5-2-9 6-9-3 4-4-13 2-5-8

Plate Offsets (X,Y)-- [C:0-5-4,0-2-0], [G:0-5-4,0-2-0], [H:0-4-15,0-0-0], [I:0-1-13,0-1-8], [N:0-2-12,0-2-12]

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	0.55	Vert(LL)	-0.06	N	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(TL)	-0.14	M-N	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.18	Horz(TL)	0.08	I	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-M)		Wind(LL)	0.05	N	>999	240	Weight: 411 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* G-J: 2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except* E-O: 2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): C-G.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 10-0-0 oc bracing: L-M
JOINTS	1 Brace at Jt(s): E, L

REACTIONS. (lb/size) B=1268/0-5-8, I=1302/0-5-8
Max Horz B=162(LC 5)
Max Uplift B=-163(LC 5), I=-165(LC 4)

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

TOP CHORD	B-C=-1670/267, C-D=-1655/322, D-E=-2075/379, E-F=-2100/388, F-G=-2100/388, G-H=-1881/278
BOT CHORD	B-R=-257/1227, Q-R=-256/1231, P-Q=-256/1231, E-N=-384/199, M-N=-153/1478, L-M=-156/1468, H-L=-156/1468
WEBS	C-R=0/258, C-P=-236/689, D-P=-678/238, N-P=-274/1478, D-N=-107/549, G-N=-273/805, G-M=0/405, K-L=-21/295

NOTES- (12)

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) 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.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=163, I=165.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

October 3,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	A10	HIP	1	1	I31241147
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:24 2017 Page 1
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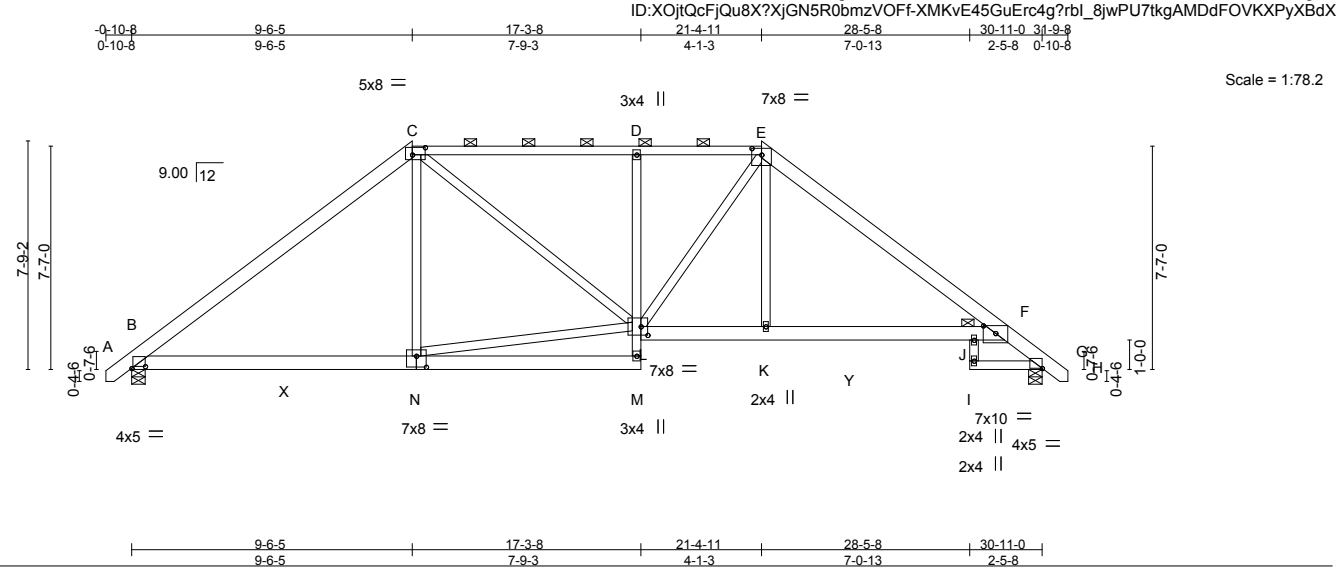

Plate Offsets (X,Y)-- [B:0-5-8,0-0-12], [C:0-5-4,0-3-0], [E:0-4-0,0-2-10], [F:0-5-0,0-3-2], [L:0-2-12,0-3-8], [N:0-4-0,0-4-8]

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	0.95	Vert(LL)	-0.13	J-K	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(TL)	-0.34	J-K	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Horz(TL)	0.18	G	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.13	J-K	>999	240	Weight: 217 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1 *Except*
C-E: 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
M-N,B-N: 2x6 SP No.2, F-L: 2x6 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-9-5 max.): C-E.
BOT CHORD Rigid ceiling directly applied. Except: 10-0-0 oc bracing: J-K
JOINTS 1 Brace at Jt(s): J

REACTIONS. (lb/size) G=1301/0-5-8, B=1260/0-5-8
Max Horz B=-219(LC 6)
Max Uplift G=-109(LC 9), B=-108(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1576/528, C-D=-1449/638, D-E=-1436/627, E-F=-1697/570
BOT CHORD B-X=-197/1138, N-X=-197/1138, D-L=-374/230, K-L=-203/1285, K-Y=-204/1294, J-Y=-204/1294, F-J=-204/1294
WEBS C-N=0/290, L-N=-201/928, C-L=-177/480, E-L=-214/379, E-K=-15/418

NOTES- (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) G=109, B=108.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" 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.
10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

October 3,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	A11	HIP	1	1	I31241148
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:25 2017 Page 1
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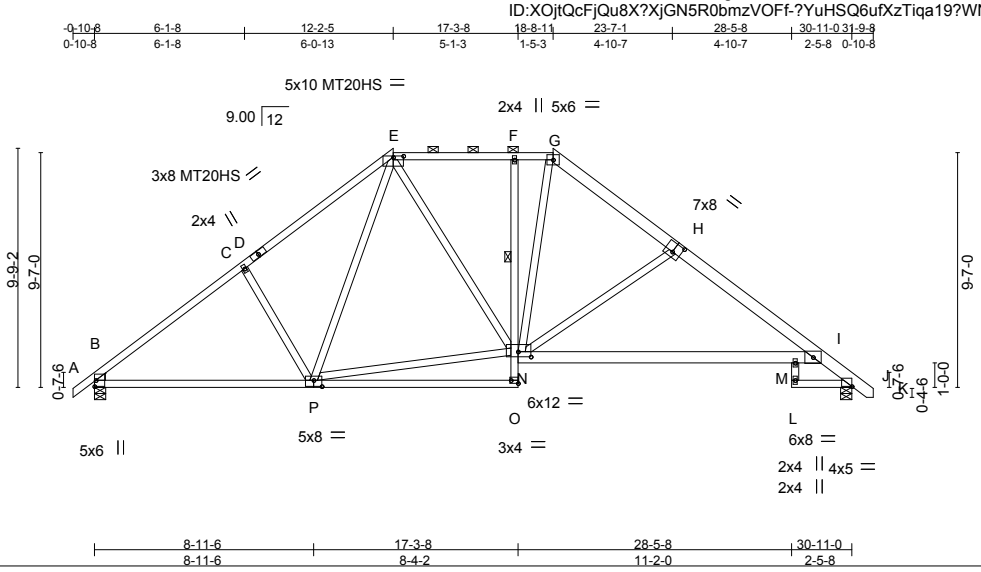

Plate Offsets (X,Y)-- [E:0-5-0,0-0-10], [H:0-4-0,0-4-8], [N:0-6-4,0-2-8], [O:Edge,0-1-8], [P:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.20	M-N	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(TL)	-0.62	M-N	>600	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(TL)	0.20	J	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.13	M-N	>999	240	Weight: 217 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
G-H: 2x6 SP No.2, H-K: 2x6 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
I-N: 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (5-3-3 max.): E-G.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt F-N

REACTIONS. (lb/size) J=1306/0-5-8, B=1264/0-5-8
Max Horz B=-281(LC 6)
Max Uplift J=-122(LC 9), B=-129(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1644/576, C-D=-1471/613, D-E=-1355/651, E-F=-1121/555, F-G=-1126/550, G-H=-1377/559, H-I=-1718/632
BOT CHORD B-P=-302/1237, M-N=-321/1388, I-M=-321/1388
WEBS C-P=-287/318, E-P=-169/353, N-P=-80/1058, E-N=-112/336, G-N=-209/644, H-N=-464/333

NOTES- (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) J=122, B=129.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" 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.
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

October 3,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	B01	GABLE	3	1	I31241149
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:26 2017 Page 1
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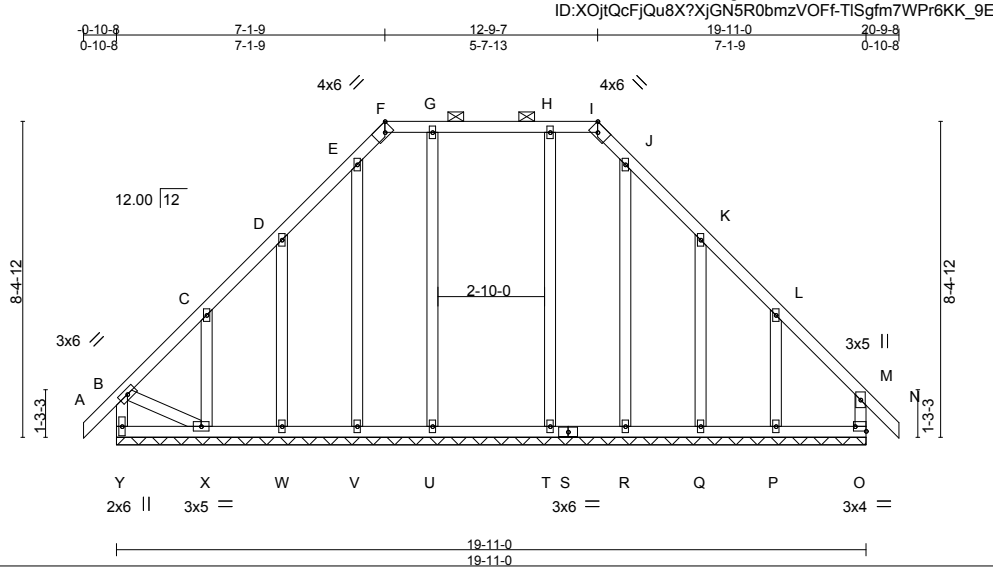

Plate Offsets (X,Y)-- [F:0-2-8,Edge], [I:0-2-8,Edge], [O:Edge,0-1-8]

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	0.18	Vert(LL)	-0.00	N	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	-0.00	N	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(TL)	0.01	O	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix)							Weight: 147 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* B-X: 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.): F-I.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 19-11-0.
(lb) - Max Horz Y=-339(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) O, V, T except Y=-278(LC 6), U=-104(LC 7), W=-192(LC 8), X=-260(LC 8), Q=-170(LC 9), P=-270(LC 9)
Max Grav All reactions 250 lb or less at joint(s) O, V, W, X, R, Q, P except Y=317(LC 7), U=250(LC 15), T=250(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-Y=-300/287, B-C=-304/292, C-D=-197/267, D-E=-100/331, E-F=-42/256, F-G=-7/275, G-H=-7/275, H-I=-7/275, I-J=-42/255, J-K=-54/291
BOT CHORD X-Y=-311/332
WEBS B-X=-221/308

NOTES- (15)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in 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.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) O, V, T except (jt=lb) Y=278, U=104, W=192, X=260, Q=170, P=270.
13) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
15) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

October 3,2017

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	B02	HIP	3	1	I31241150
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:26 2017 Page 1
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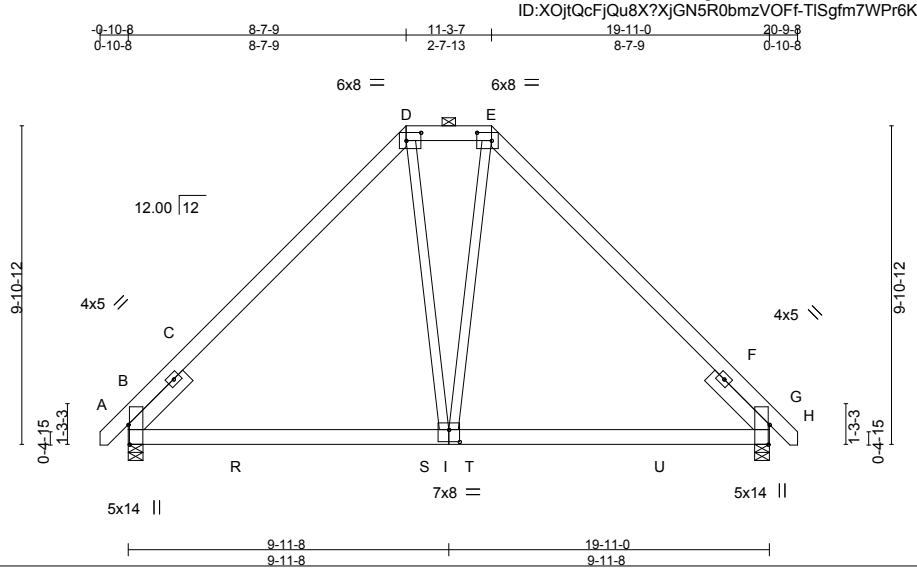

Plate Offsets (X,Y)-- [B:0-7-6,Edge], [D:0-5-8,0-3-0], [E:0-5-8,0-3-0], [G:0-7-6,Edge], [I:0-4-0,0-4-8]

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	0.40	Vert(LL)	-0.08	I-L	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(TL)	-0.15	I-L	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.26	Horz(TL)	0.04	G	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-M)		Wind(LL)	0.09	I-L	>999	240	Weight: 156 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 2-6-0, Right 2x6 SP No.2 2-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): D-E.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) B=842/0-5-8, G=842/0-5-8
Max Horz B=-269(LC 6)
Max Uplift B=-80(LC 8), G=-80(LC 9)
Max Grav B=913(LC 2), G=912(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-443/0, C-D=-731/326, D-E=-549/401, E-F=-731/326, F-G=-443/0
BOT CHORD B-R=-76/513, R-S=-76/513, I-S=-76/513, I-T=-20/513, T-U=-20/513, G-U=-20/513
WEBS D-I=-152/337, E-I=-152/337

NOTES- (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, G.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

October 3,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	B03	COMMON	11	1	I31241151
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:27 2017 Page 1
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-xx02t688A9EBx8kQGQYrLY14w4sZNgX4xMk_7kyXBdU

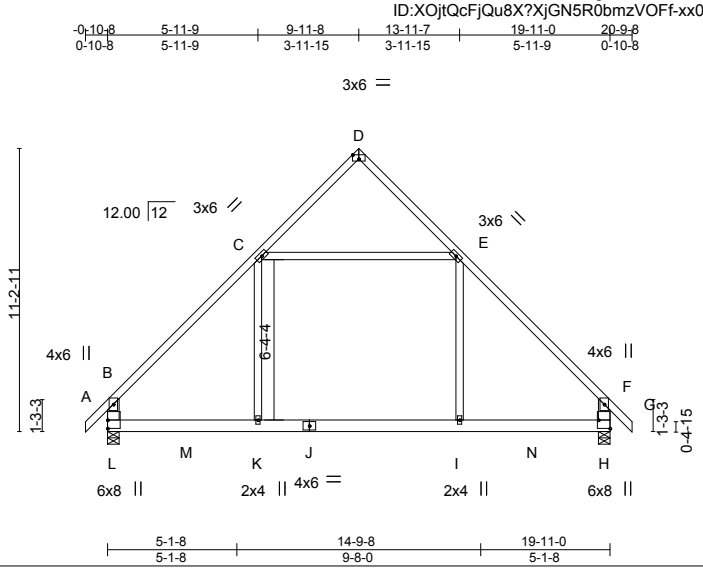

Plate Offsets (X,Y)-- [D:0-3-0,Edge], [H:Edge,0-5-8]

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	0.60	Vert(LL)	-0.14	I-K	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(TL)	-0.23	I-K	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(TL)	0.01	H	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.23	K-L	>999	240	Weight: 128 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
B-L,F-H: 2x6 SP No.2

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

REACTIONS. (lb/size) L=845/0-5-8, H=845/0-5-8
Max Horz L=347(LC 7)
Max Uplift L=-93(LC 8), H=-93(LC 9)
Max Grav L=942(LC 2), H=942(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-954/294, E-F=-954/294, B-L=-822/362, F-H=-822/362
BOT CHORD L-M=-58/583, K-M=-58/583, J-K=-58/583, I-J=-58/583, I-N=-58/583, H-N=-58/583
WEBS E-I=-82/359, C-K=-82/359, C-E=-487/402

NOTES- (8)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) L, H.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

October 3,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/ I31241152
1238844_MASTER	B04	GABLE	4	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:27 2017 Page 1
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-xx02t688A9EBx8kQGQYrLY18f4sMNnt4xMk_7kyXBdU

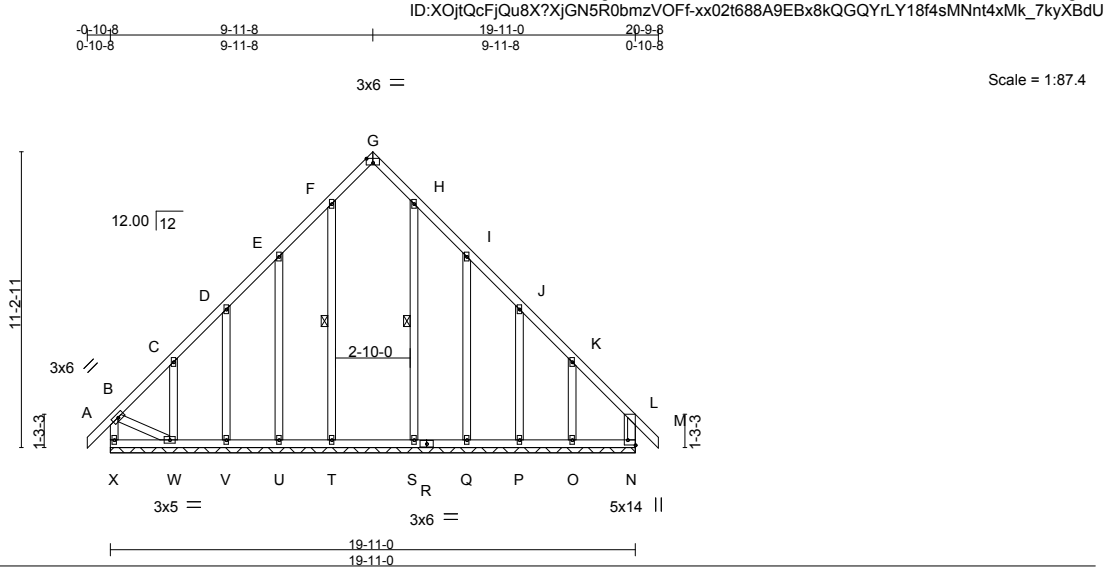

Plate Offsets (X,Y)-- [G:0-3-0,Edge], [N:Edge,0-3-8]

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	0.36	Vert(LL)	-0.00	M	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(TL)	-0.01	M	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(TL)	0.01	N	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 154 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
B-W: 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 9-2-9 oc bracing.
WEBS 1 Row at midpt F-T, H-S

REACTIONS. All bearings 19-11-0.
(lb) - Max Horz X=-446(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) N, T, P except X=-197(LC 6), U=-216(LC 8), V=-145(LC 8), W=-359(LC 8), Q=-256(LC 9), O=-455(LC 9)
Max Grav All reactions 250 lb or less at joint(s) T, U, V, W, S, Q, P, O except X=441(LC 7), N=379(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-X=-424/206, B-C=-424/214, C-D=-316/195, K-L=-446/89, L-N=-264/57
BOT CHORD W-X=-415/439, V-W=-55/412, U-V=-55/412, T-U=-55/412, S-T=-55/412, R-S=-55/412, Q-R=-55/412, P-Q=-55/412, O-P=-55/412, N-O=-55/412
WEBS I-Q=-119/265, K-O=-117/341, B-W=-160/451

NOTES- (13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) N, T, P except (jt=lb) X=197, U=216, V=145, W=359, Q=256, O=455.
12) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
13) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

October 3,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	C01	GABLE	3	1	I31241153
					Job Reference (optional)

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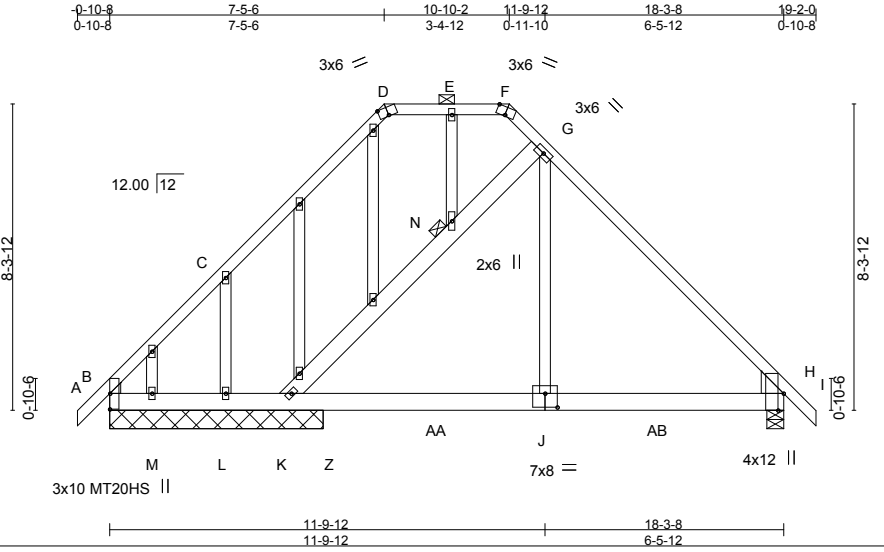

Plate Offsets (X,Y)-- [B:Edge,0-0-1], [D:0-3-0,Edge], [F:0-3-0,Edge], [H:0-5-8,Edge], [J:0-4-0,0-4-8]

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	0.47	Vert(LL)	-0.02	J-Y	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(TL)	-0.04	J-Y	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.20	Horz(TL)	0.02	H	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-M)		Wind(LL)	0.05	J-Y	>999	240	Weight: 144 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x6 SP No.2 *Except*
G-J: 2x4 SP No.3
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.2, Right: 2x8 SP DSS

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-11 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): D-F.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): N

REACTIONS. All bearings 5-9-8 except (jt=length) H=0-5-8.
(lb) - Max Horz B=296(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) M except L=-369(LC 8), H=-113(LC 9)
Max Grav All reactions 250 lb or less at joint(s) M except B=592(LC 13), K=590(LC 3), L=336(LC 1), H=815(LC 1), B=571(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-507/24, C-D=-583/130, D-E=-323/133, E-F=-324/133, F-G=-423/162, G-H=-844/146
BOT CHORD B-M=-149/394, L-M=-149/394, K-L=-149/394, K-Z=-6/513, Z-AA=-6/513, J-AA=-6/513, J-AB=-5/518, H-AB=-5/518
WEBS K-N=-436/250, G-N=-404/273, G-J=-26/345, C-L=-328/353

NOTES- (15)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) All plates are 2x4 MT20 unless otherwise indicated.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) M except (jt=lb) L=369, H=113.
12) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
15) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

October 3,2017

Continued on page 2

ENGINEERING BY TRENCO
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818 Soundside Road
Edenton, NC 27932

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-B=-60, B-D=-75(F=-15), D-F=-75(F=-15), F-I=-60, T-Z=-35(F=-15), W-Z=-20, G-K=-45(F)

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	C02	Hip Girder	3	2	I31241154
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

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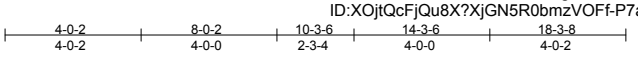

THIS TRUSS IS DESIGNED TO SUPPORT ONLY 2'-0" OF UNIFORM LOAD AS SHOWN.

Scale = 1:67.9

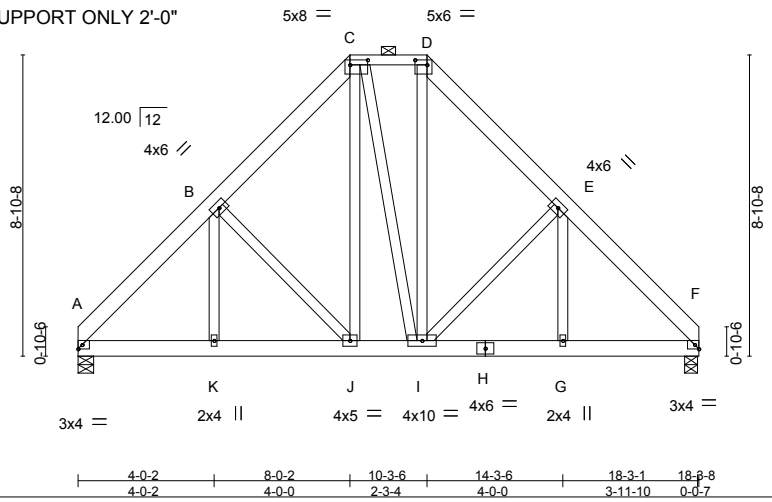

Plate Offsets (X,Y)-- [C:0-6-4,0-1-12], [D:0-4-4,0-1-12]

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	0.05	Vert(LL)	-0.01	J	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	-0.02	J-K	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.03	Horz(TL)	0.01	F	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.01	K	>999	240	Weight: 331 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except* C-D: 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): C-D.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=732/0-5-8, F=732/0-4-9
Max Horz A=-254(LC 4)
Max Uplift A=-44(LC 6), F=-44(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-853/82, B-C=-656/149, C-D=-396/148, D-E=-661/153, E-F=-850/81
BOT CHORD A-K=-159/546, J-K=-159/546, I-J=-67/392, H-I=-3/544, G-H=-3/544, F-G=-3/544

NOTES- (12)
1) 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.
2) 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.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, F.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

October 3,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	C03	GABLE	4	1	I31241155
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

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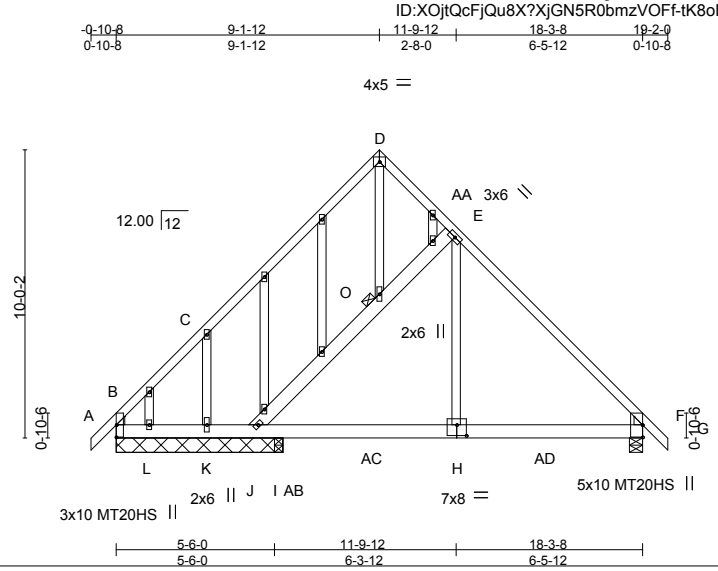

Plate Offsets (X,Y)-- [B:Edge,0-0-1], [F:Edge,0-0-1], [H:0-4-0,0-4-8]

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	0.47	Vert(LL)	-0.01	H-Z	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(TL)	-0.04	H-Z	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.14	Horz(TL)	0.02	F	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.04	H-Z	>999	240	Weight: 149 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x6 SP No.2 *Except*
E-H: 2x4 SP No.3
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.2, Right: 2x4 SP SS

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
JOINTS 1 Brace at Jt(s): O

REACTIONS. All bearings 5-9-8 except (jt=length) F=0-5-8, I=0-3-8.
(lb) - Max Horz B=-359(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) F except K=-444(LC 8), L=-139(LC 1)
Max Grav All reactions 250 lb or less at joint(s) L except B=503(LC 1), K=671(LC 1), F=785(LC 1), I=395(LC 3), B=503(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-439/0, C-D=-511/32, D-AA=-307/144, E-AA=-411/104, E-F=-809/83
BOT CHORD B-L=-62/455, K-L=-62/455, J-K=-62/455, I-J=0/485, I-AB=0/485, AB-AC=0/485, H-AC=0/485, H-AD=0/490, F-AD=0/490
WEBS J-O=-439/318, E-O=-449/325, E-H=-10/320, C-K=-431/433

NOTES- (13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) All plates are MT20 plates unless otherwise indicated.
6) All plates are 2x4 MT20 unless otherwise indicated.
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, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) F except (jt=lb) K=444, L=139.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
13) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

Continued on page 2

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TRENCO
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818 Soundside Road
Edenton, NC 27932

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-B=-60, B-D=-75(F=-15), D-AA=-75(F=-15), G-AA=-60, U-AB=-35(F=-15), X-AB=-20, E-J=-45(F)

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	C04	Common Girder	4	2	I31241156
					Job Reference (optional)

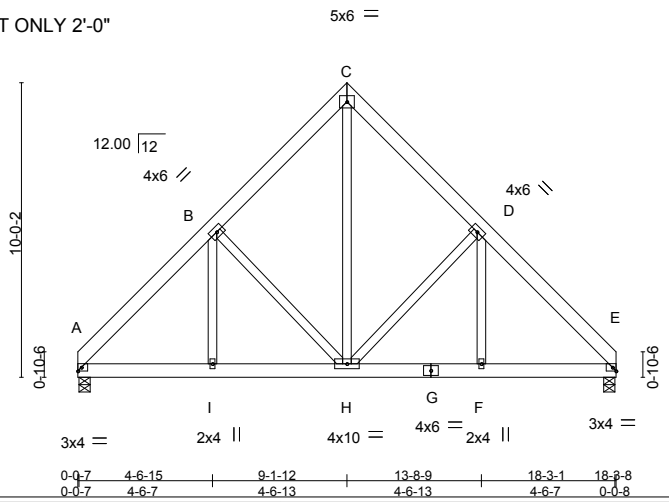
Builders FirstSource, Sumter, SC 29153

7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:30 2017 Page 1
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-LWhAV7A1T4cmobT?yZ5YyBfkfIz6aApWeKyfk3yXBdR

4-6-15 | 9-1-12 | 13-8-9 | 18-3-8
4-6-15 | 4-6-13 | 4-6-13 | 4-6-15

THIS TRUSS IS DESIGNED TO SUPPORT ONLY 2'-0" OF UNIFORM LOAD AS SHOWN.

Scale = 1:78.3



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	-0.01	I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	-0.02	H-I	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.06	Horz(TL)	0.01	E	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-M)		Wind(LL)	0.01	H	>999	240	Weight: 301 lb	FT = 20%

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

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

REACTIONS. (lb/size) A=732/0-4-9, E=732/0-4-9
Max Horz A=-283(LC 4)
Max Uplift A=-50(LC 7), E=-50(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-846/105, B-C=-617/179, C-D=-617/179, D-E=-846/104
BOT CHORD A-I=-140/534, H-I=-140/534, G-H=-10/534, F-G=-10/534, E-F=-10/534
WEBS C-H=-135/467, D-H=-261/190, B-H=-261/189

NOTES- (10)
1) 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.
2) 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.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, E.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	CP01	GABLE	7	1	I31241157
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:30 2017 Page 1
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-LWhAV7A1T4cmobT?yZ5YyBfgJIyha9cWeKyfk3yXBdR

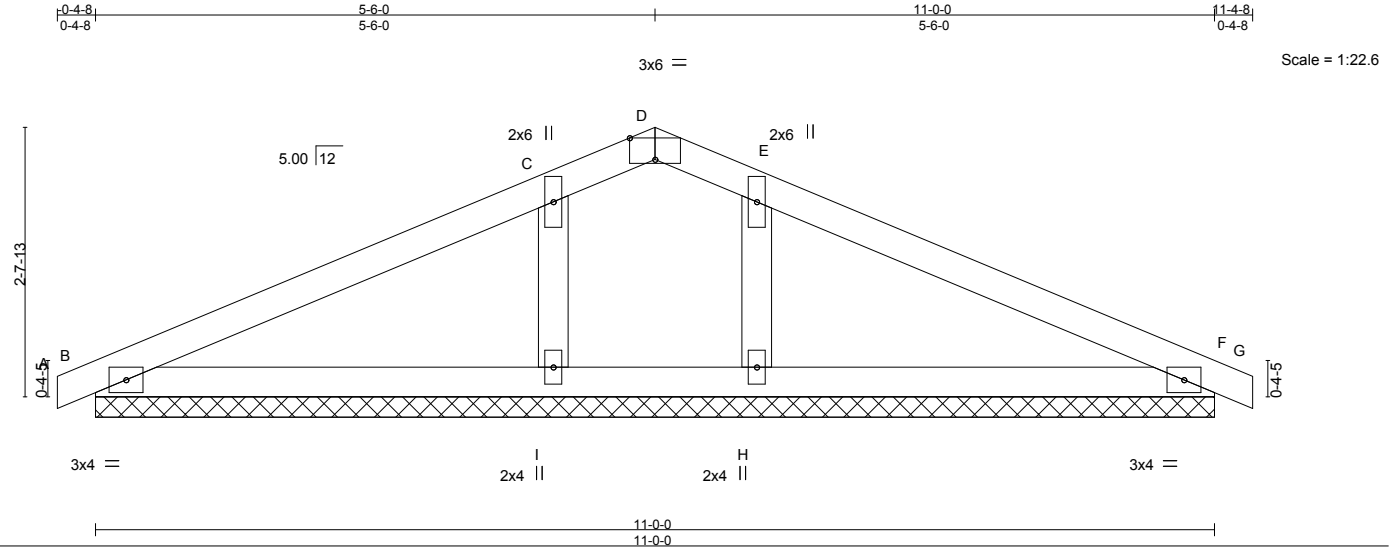

Plate Offsets (X,Y)-- [D:0-3-0,Edge]

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	0.27	Vert(LL)	0.00	G	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	0.01	G	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.00	F	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix)							Weight: 41 lb	FT = 20%

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

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

REACTIONS. All bearings 11-0-0.
(lb) - Max Horz B=41(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) B, F except I=-158(LC 8), H=-153(LC 9)
Max Grav All reactions 250 lb or less at joint(s) B, F except I=354(LC 13), H=354(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-I=-268/237, E-H=-268/237

NOTES- (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, F except (jt=lb) I=158, H=153.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	CP02	Common	29	1	I31241158
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:30 2017 Page 1
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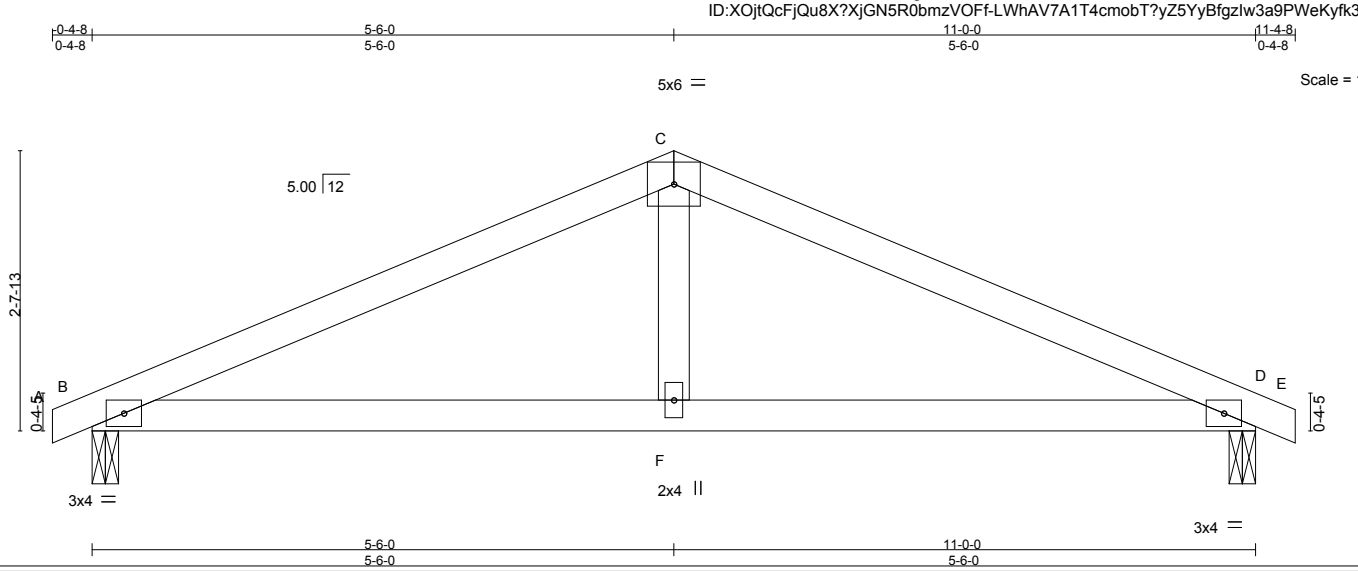

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.02	F-I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(TL)	-0.05	F-I	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(TL)	0.01	D	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.05	F-L	>999	240	Weight: 39 lb	FT = 20%

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

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

REACTIONS. (lb/size) B=463/0-3-0, D=463/0-3-0
Max Horz B=37(LC 8)
Max Uplift B=-218(LC 8), D=-218(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-617/795, C-D=-617/795
BOT CHORD B-F=-637/520, D-F=-637/520
WEBS C-F=-321/218

NOTES- (8)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=218, D=218.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/ I31241159
1238844_MASTER	D01	Common Supported Gable	7	1	Job Reference (optional)

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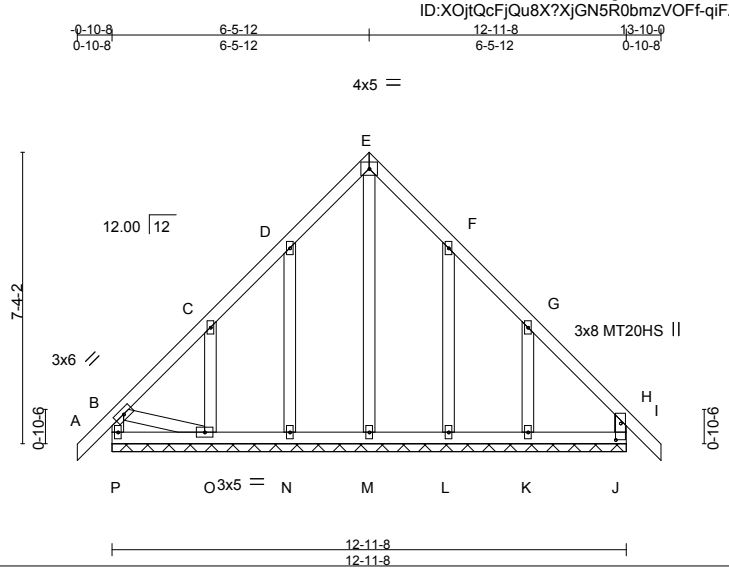

Plate Offsets (X,Y)-- [H:0-5-0,0-1-8]

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	0.19	Vert(LL)	-0.00	I	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	-0.00	I	n/r	120	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.28	Horz(TL)	0.00	J	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix)							Weight: 88 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 12-11-8.
(lb) - Max Horz P=-288(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) J except P=-185(LC 6), N=-154(LC 8), O=-222(LC 8), L=-133(LC 9), K=-235(LC 9)
Max Grav All reactions 250 lb or less at joint(s) P, J, N, O, L, K except M=330(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-255/232, D-E=-64/283, E-F=-64/281
BOT CHORD O-P=-257/289
WEBS E-M=-308/22

NOTES- (14)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) All plates are MT20 plates unless otherwise indicated.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) J except (jt=lb) P=185, N=154, O=222, L=133, K=235.
13) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
14) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

October 3,2017

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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	FG01	GABLE	4	3	I31241160
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:32 2017 Page 1
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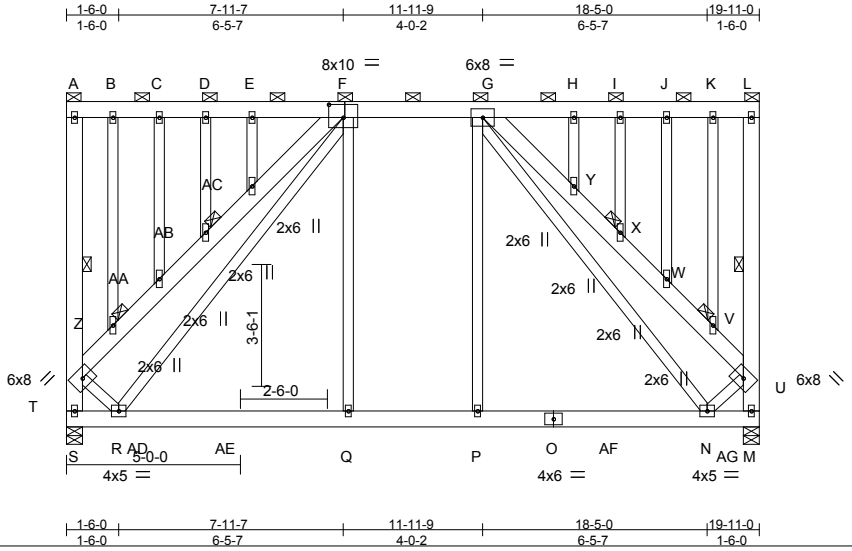

Plate Offsets (X,Y)-- [F:0-5-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.07	N-P	>999	360	MT20	244/190
TCDL	17.0	Lumber DOL	1.15	BC	0.41	Vert(TL)	-0.10	Q-R	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.43	Horz(TL)	0.01	M	n/a	n/a		
BCDL	17.0	Code	IRC2009/TPI2007	(Matrix-M)		Wind(LL)	0.10	N-P	>999	240	Weight: 876 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.2 *Except* A-S,L-M,G-U,F-T: 2x6 SP No.2
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	2-0-0 oc purlins (6-0-0 max.): A-L, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt A-S, L-M
JOINTS	1 Brace at Jt(s): A, L, V, X, Z, AB

REACTIONS. (lb/size) S=1838/0-5-8, M=1736/0-5-8
Max Horz S=-839(LC 13)
Max Uplift S=-709(LC 13), M=-854(LC 16)
Max Grav S=2556(LC 12), M=2451(LC 11)

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

TOP CHORD	S-T=-2477/266, A-T=-314/218, B-C=-343/367, C-D=-476/500, D-E=-610/621, E-F=-875/899, F-G=-1246/229, G-H=-848/884, H-I=-606/628, I-J=-472/508, J-K=-339/374, M-U=-2361/460, L-U=-370/243
BOT CHORD	S-AD=-1561/1516, R-AD=-1561/1516, R-AE=-311/1239, Q-AE=-311/1239, P-Q=-300/1246, O-P=-283/1221, O-AF=-283/1221, N-AF=-283/1221, N-AG=-722/691, M-AG=-722/691
WEBS	R-T=-231/1595, F-Q=-556/963, N-U=-353/1460, G-Y=-1568/615, X-Y=-1378/421, W-X=-1490/501, V-W=-1523/510, U-V=-1544/525, T-Z=-1674/424, Z-AA=-1654/405, AA-AB=-1629/400, AB-AC=-1541/312, F-AC=-1630/500, G-P=-470/1019, F-R=-1189/1449, G-N=-1185/1256, H-Y=-316/352, E-AC=-311/255

NOTES- (16)

1) 3-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, 2x6 - 2 rows staggered at 0-9-0 oc.
2) 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.
3) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) 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.
5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 2x4 MT20 unless otherwise indicated.
8) Gable studs spaced at 1-4-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 17.0psf.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) S=709, M=854.
12) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

Continued on page 2

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NOTES- (16)

13) This truss has been designed for a total drag load of 100 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-0-0, 18-11-0 to 19-11-0 for 996.0 plf.
14) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
16) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard Except:

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-F=-88(F=-14), F-G=-74, G-L=-88(F=-14), M-S=-64(F=-30), G-U=-30(F), F-R=-69(F)
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-F=-78(F=-14), F-G=-64, G-L=-78(F=-14), S-AE=-104(F=-70), AE-AF=-134(F=-70), M-AF=-104(F=-70), G-U=-27(F), F-R=-66(F)
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: A-F=-48(F=-14), F-G=-34, G-L=-48(F=-14), M-S=-84(F=-30), G-U=-24(F), F-R=-63(F)
4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-F=25(F=-14), F-G=39, G-L=25(F=-14), M-S=-42(F=-30), G-U=8(F), F-R=-31(F)
Horz: A-S=21, L-M=27
5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-F=25(F=-14), F-G=39, G-L=25(F=-14), M-S=-42(F=-30), G-U=8(F), F-R=-31(F)
Horz: A-S=-27, L-M=-21
6) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-F=25(F=-14), F-G=39, G-L=25(F=-14), M-S=-42(F=-30), G-U=8(F), F-R=-31(F)
Horz: A-S=-26, L-M=26
7) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-F=10(F=-14), F-G=24, G-L=10(F=-14), M-S=-42(F=-30), G-U=3(F), F-R=-36(F)
Horz: A-S=-26, L-M=26
8) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-F=3(F=-14), F-G=17, G-L=3(F=-14), M-S=-42(F=-30), G-U=1(F), F-R=-38(F)
Horz: A-S=-26, L-M=26
9) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-F=-3(F=-14), F-G=11, G-L=-3(F=-14), M-S=-42(F=-30), G-U=1(F), F-R=-38(F)
Horz: A-S=-26, L-M=26
10) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: A-F=-48(F=-14), F-G=-34, G-L=-48(F=-14), S-AE=-64(F=-30), AE-AF=-104(F=-30), M-AF=-64(F=-30), G-U=-19(F), F-R=-58(F)
11) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-F=-78(F=-14), F-G=-64, G-L=-78(F=-14), S-AE=-64(F=-30), AE-AF=-94(F=-30), M-AF=-64(F=-30), G-U=-27(F), F-R=-66(F)
Drag: A-L=75, S-AD=-747, M-AG=-747
12) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-F=-78(F=-14), F-G=-64, G-L=-78(F=-14), S-AE=-64(F=-30), AE-AF=-94(F=-30), M-AF=-64(F=-30), G-U=-27(F), F-R=-66(F)
Drag: A-L=-75, S-AD=747, M-AG=747
13) Dead + 0.6 MWFRS Wind (Pos. Internal) Left + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-F=25(F=-14), F-G=39, G-L=25(F=-14), M-S=-42(F=-30), G-U=8(F), F-R=-31(F)
Horz: A-S=21, L-M=27
Drag: A-L=100, S-AD=-996, M-AG=-996
14) Dead + 0.6 MWFRS Wind (Pos. Internal) Left + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-F=25(F=-14), F-G=39, G-L=25(F=-14), M-S=-42(F=-30), G-U=8(F), F-R=-31(F)
Horz: A-S=21, L-M=27
Drag: A-L=-100, S-AD=996, M-AG=996
15) Dead + 0.6 MWFRS Wind (Pos. Internal) Right + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-F=25(F=-14), F-G=39, G-L=25(F=-14), M-S=-42(F=-30), G-U=8(F), F-R=-31(F)
Horz: A-S=-27, L-M=-21
Drag: A-L=100, S-AD=-996, M-AG=-996
16) Dead + 0.6 MWFRS Wind (Pos. Internal) Right + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

LOAD CASE(S) Standard Except:

Uniform Loads (plf)
Vert: A-F=25(F=-14), F-G=39, G-L=25(F=-14), M-S=-42(F=-30), G-U=8(F), F-R=-31(F)
Horz: A-S=-27, L-M=-21
Drag: A-L=-100, S-AD=996, M-AG=996

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-F=25(F=-14), F-G=39, G-L=25(F=-14), M-S=-42(F=-30), G-U=8(F), F-R=-31(F)
Horz: A-S=-26, L-M=26
Drag: A-L=100, S-AD=-996, M-AG=-996

18) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-F=25(F=-14), F-G=39, G-L=25(F=-14), M-S=-42(F=-30), G-U=8(F), F-R=-31(F)
Horz: A-S=-26, L-M=26
Drag: A-L=-100, S-AD=996, M-AG=996

19) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-F=10(F=-14), F-G=24, G-L=10(F=-14), M-S=-42(F=-30), G-U=3(F), F-R=-36(F)
Horz: A-S=-26, L-M=26
Drag: A-L=100, S-AD=-996, M-AG=-996

20) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-F=10(F=-14), F-G=24, G-L=10(F=-14), M-S=-42(F=-30), G-U=3(F), F-R=-36(F)
Horz: A-S=-26, L-M=26
Drag: A-L=-100, S-AD=996, M-AG=996

21) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-F=3(F=-14), F-G=17, G-L=3(F=-14), M-S=-42(F=-30), G-U=1(F), F-R=-38(F)
Horz: A-S=-26, L-M=26
Drag: A-L=100, S-AD=-996, M-AG=-996

22) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-F=3(F=-14), F-G=17, G-L=3(F=-14), M-S=-42(F=-30), G-U=1(F), F-R=-38(F)
Horz: A-S=-26, L-M=26
Drag: A-L=-100, S-AD=996, M-AG=996

23) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-F=-3(F=-14), F-G=11, G-L=-3(F=-14), M-S=-42(F=-30), G-U=1(F), F-R=-38(F)
Horz: A-S=-26, L-M=26
Drag: A-L=100, S-AD=-996, M-AG=-996

24) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-F=-3(F=-14), F-G=11, G-L=-3(F=-14), M-S=-42(F=-30), G-U=1(F), F-R=-38(F)
Horz: A-S=-26, L-M=26
Drag: A-L=-100, S-AD=996, M-AG=996

25) Dead-Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-F=-48(F=-14), F-G=-34, G-L=-48(F=-14), M-S=-64(F=-30), G-U=-19(F), F-R=-58(F)
Drag: A-L=100, S-AD=-996, M-AG=-996

26) Dead-Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-F=-48(F=-14), F-G=-34, G-L=-48(F=-14), M-S=-64(F=-30), G-U=-19(F), F-R=-58(F)
Drag: A-L=-100, S-AD=996, M-AG=996

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	FG02	GABLE	3	3	I31241161
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:33 2017 Page 1
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-m5NJ79Cvm?_Lf3BadhfFapHAoVuVnQsyKIBJLOyXBdO

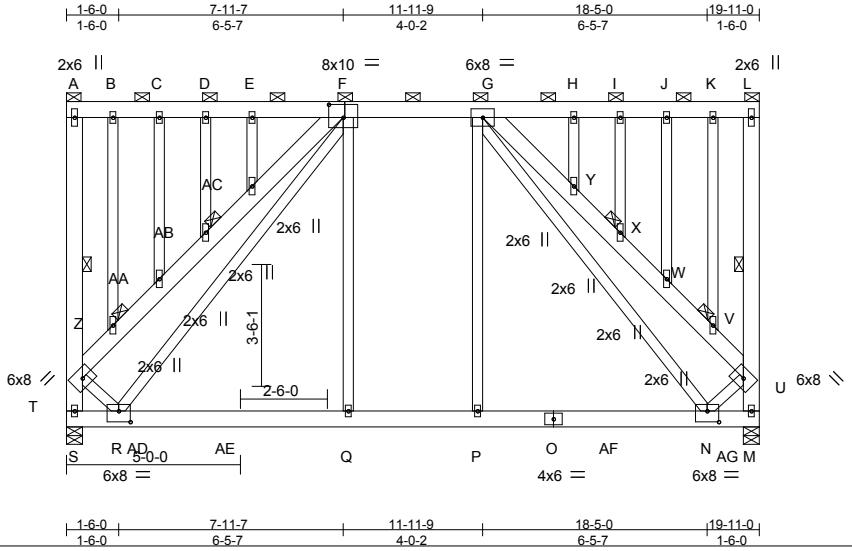

Plate Offsets (X,Y)-- [F:0-5-0,0-4-8], [N:0-4-0,0-3-12], [R:0-4-0,0-3-12]

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	0.38	Vert(LL)	-0.08	N-P	>999	360	MT20	244/190
TCDL	17.0	Lumber DOL	1.15	BC	0.47	Vert(TL)	-0.12	Q-R	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.42	Horz(TL)	0.01	M	n/a	n/a		
BCDL	17.0	Code	IRC2009/TPI2007	(Matrix-M)		Wind(LL)	0.10	N-P	>999	240	Weight: 876 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2 *Except*
A-S,L-M,G-U,F-T: 2x6 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): A-L, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt A-S, L-M
JOINTS 1 Brace at Jt(s): A, L, V, X, Z, AB

REACTIONS. (lb/size) S=1877/0-5-8, M=1775/0-5-8
Max Horz S=-839(LC 13)
Max Uplift S=-290(LC 27), M=-434(LC 16)
Max Grav S=3659(LC 12), M=3552(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD S-T=-3683/0, A-T=-417/113, B-C=-353/357, C-D=-486/490, D-E=-606/624, E-F=-884/889, F-G=-1779/19, G-H=-859/873, H-I=-603/618, I-J=-483/497, J-K=-349/364, M-U=-3575/18, L-U=-482/138
BOT CHORD S-AD=-1573/1504, R-AD=-1573/1504, R-AE=-102/1765, Q-AE=-102/1765, P-Q=-91/1769, O-P=-76/1717, O-AF=-76/1717, N-AF=-76/1717, N-AG=-739/674, M-AG=-739/674
WEBS R-T=0/2361, F-Q=-519/1369, N-U=-115/2227, G-Y=-2311/429, X-Y=-2118/233, W-X=-2249/294, V-W=-2294/291, U-V=-2313/305, T-Z=-2459/194, Z-AA=-2440/176, AA-AB=-2402/182, AB-AC=-2298/112, F-AC=-2365/311, G-P=-513/1417, F-R=-1187/1363, G-N=-1190/1161, H-Y=-319/355, E-AC=-328/239

NOTES- (16)
1) 3-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, 2x6 - 2 rows staggered at 0-9-0 oc.
2) 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.
3) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) 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.
5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 2x4 MT20 unless otherwise indicated.
8) Gable studs spaced at 1-4-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 17.0psf.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) S=290, M=434.
12) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

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October 3,2017

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

NOTES- (16)

13) This truss has been designed for a total drag load of 100 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-0-0, 18-11-0 to 19-11-0 for 996.0 plf.
14) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
16) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard Except:

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-L=-74, M-S=-79(F=-45), G-U=-30(F), F-R=-69(F)
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-F=-114(F=-50), F-G=-64, G-L=-114(F=-50), S-AE=-149(F=-115), AE-AF=-179(F=-115), M-AF=-149(F=-115), G-U=-27(F), F-R=-66(F)
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: A-F=-84(F=-50), F-G=-34, G-L=-84(F=-50), M-S=-99(F=-45), G-U=-24(F), F-R=-63(F)
4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: A-F=-11(F=-50), F-G=39, G-L=-11(F=-50), M-S=-57(F=-45), G-U=8(F), F-R=-31(F)
   Horz: A-S=21, L-M=27
5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: A-F=-11(F=-50), F-G=39, G-L=-11(F=-50), M-S=-57(F=-45), G-U=8(F), F-R=-31(F)
   Horz: A-S=-27, L-M=-21
6) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: A-F=-11(F=-50), F-G=39, G-L=-11(F=-50), M-S=-57(F=-45), G-U=8(F), F-R=-31(F)
   Horz: A-S=-26, L-M=26
7) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: A-F=-26(F=-50), F-G=24, G-L=-26(F=-50), M-S=-57(F=-45), G-U=3(F), F-R=-36(F)
   Horz: A-S=-26, L-M=26
8) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: A-F=-33(F=-50), F-G=17, G-L=-33(F=-50), M-S=-57(F=-45), G-U=1(F), F-R=-38(F)
   Horz: A-S=-26, L-M=26
9) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: A-F=-39(F=-50), F-G=11, G-L=-39(F=-50), M-S=-57(F=-45), G-U=1(F), F-R=-38(F)
   Horz: A-S=-26, L-M=26
10) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: A-L=-34, S-AE=-119(F=-85), AE-AF=-159(F=-85), M-AF=-119(F=-85), G-U=-19(F), F-R=-58(F)
11) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: A-F=-114(F=-50), F-G=-64, G-L=-114(F=-50), S-AE=-149(F=-115), AE-AF=-179(F=-115), M-AF=-149(F=-115), G-U=-27(F), F-R=-66(F)
   Drag: A-L=75, S-AD=-747, M-AG=-747
12) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: A-F=-114(F=-50), F-G=-64, G-L=-114(F=-50), S-AE=-149(F=-115), AE-AF=-179(F=-115), M-AF=-149(F=-115), G-U=-27(F), F-R=-66(F)
   Drag: A-L=-75, S-AD=747, M-AG=747
13) Dead + 0.6 MWFRS Wind (Pos. Internal) Left + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: A-F=-11(F=-50), F-G=39, G-L=-11(F=-50), M-S=-57(F=-45), G-U=8(F), F-R=-31(F)
   Horz: A-S=21, L-M=27
   Drag: A-L=100, S-AD=-996, M-AG=-996
14) Dead + 0.6 MWFRS Wind (Pos. Internal) Left + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: A-F=-11(F=-50), F-G=39, G-L=-11(F=-50), M-S=-57(F=-45), G-U=8(F), F-R=-31(F)
   Horz: A-S=21, L-M=27
   Drag: A-L=-100, S-AD=996, M-AG=996
15) Dead + 0.6 MWFRS Wind (Pos. Internal) Right + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (plf)
   Vert: A-F=-11(F=-50), F-G=39, G-L=-11(F=-50), M-S=-57(F=-45), G-U=8(F), F-R=-31(F)
   Horz: A-S=-27, L-M=-21
   Drag: A-L=100, S-AD=-996, M-AG=-996
16) Dead + 0.6 MWFRS Wind (Pos. Internal) Right + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33

Continued on page 3

LOAD CASE(S) Standard Except:

Uniform Loads (plf)
Vert: A-F=-11(F=-50), F-G=39, G-L=-11(F=-50), M-S=-57(F=-45), G-U=8(F), F-R=-31(F)
Horz: A-S=-27, L-M=-21
Drag: A-L=-100, S-AD=996, M-AG=996

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-F=-11(F=-50), F-G=39, G-L=-11(F=-50), M-S=-57(F=-45), G-U=8(F), F-R=-31(F)
Horz: A-S=-26, L-M=26
Drag: A-L=100, S-AD=-996, M-AG=-996

18) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-F=-11(F=-50), F-G=39, G-L=-11(F=-50), M-S=-57(F=-45), G-U=8(F), F-R=-31(F)
Horz: A-S=-26, L-M=26
Drag: A-L=-100, S-AD=996, M-AG=996

19) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-F=-26(F=-50), F-G=24, G-L=-26(F=-50), M-S=-57(F=-45), G-U=3(F), F-R=-36(F)
Horz: A-S=-26, L-M=26
Drag: A-L=100, S-AD=-996, M-AG=-996

20) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-F=-26(F=-50), F-G=24, G-L=-26(F=-50), M-S=-57(F=-45), G-U=3(F), F-R=-36(F)
Horz: A-S=-26, L-M=26
Drag: A-L=-100, S-AD=996, M-AG=996

21) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-F=-33(F=-50), F-G=17, G-L=-33(F=-50), M-S=-57(F=-45), G-U=1(F), F-R=-38(F)
Horz: A-S=-26, L-M=26
Drag: A-L=100, S-AD=-996, M-AG=-996

22) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-F=-33(F=-50), F-G=17, G-L=-33(F=-50), M-S=-57(F=-45), G-U=1(F), F-R=-38(F)
Horz: A-S=-26, L-M=26
Drag: A-L=-100, S-AD=996, M-AG=996

23) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel + Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-F=-39(F=-50), F-G=11, G-L=-39(F=-50), M-S=-57(F=-45), G-U=1(F), F-R=-38(F)
Horz: A-S=-26, L-M=26
Drag: A-L=100, S-AD=-996, M-AG=-996

24) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel + Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-F=-39(F=-50), F-G=11, G-L=-39(F=-50), M-S=-57(F=-45), G-U=1(F), F-R=-38(F)
Horz: A-S=-26, L-M=26
Drag: A-L=-100, S-AD=996, M-AG=996

25) Dead-Drag LC#1 Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-L=-34, M-S=-79(F=-45), G-U=-19(F), F-R=-58(F)
Drag: A-L=100, S-AD=-996, M-AG=-996

26) Dead-Drag LC#1 Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: A-L=-34, M-S=-79(F=-45), G-U=-19(F), F-R=-58(F)
Drag: A-L=-100, S-AD=996, M-AG=996

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	G01	GABLE	2	1	I31241162
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:34 2017 Page 1
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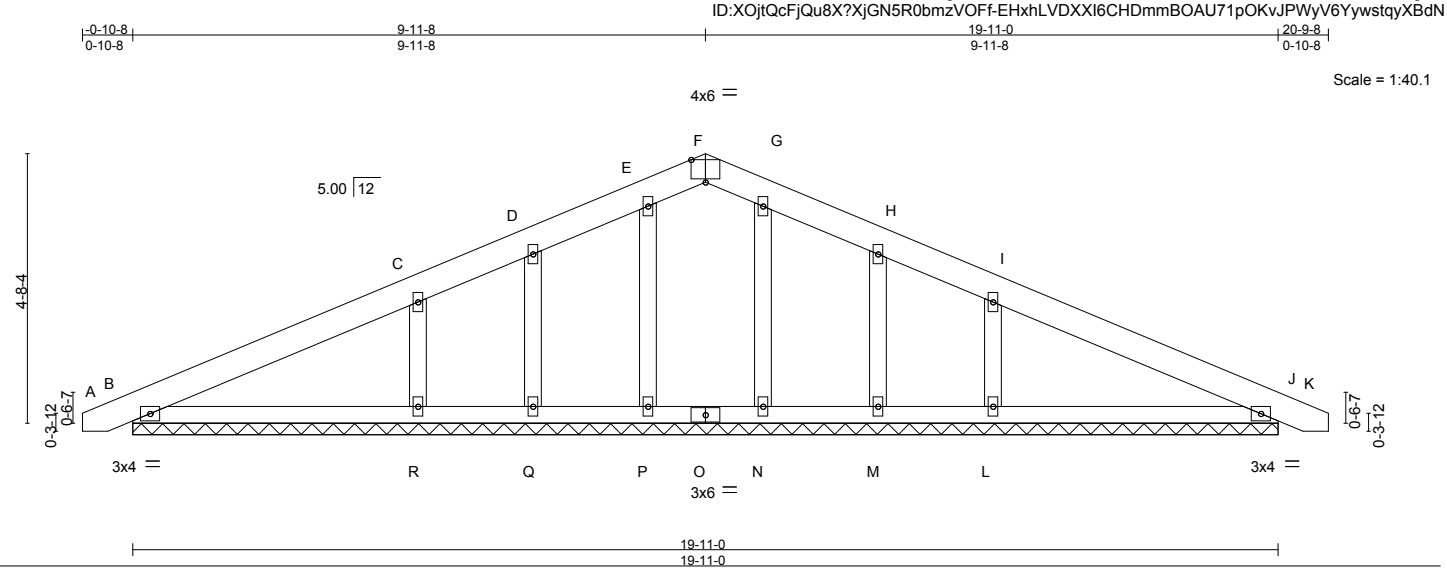

Plate Offsets (X,Y)-- [F:0-3-0,Edge]

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	0.14	Vert(LL)	0.00	K	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	0.01	K	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(TL)	0.00	J	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix)							Weight: 109 lb	FT = 20%

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

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

REACTIONS. All bearings 19-11-0.
(lb) - Max Horz B=-73(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) B, J, P, Q, N, M except R=-180(LC 8), L=-179(LC 9)
Max Grav All reactions 250 lb or less at joint(s) F, B, J, P, Q, N, M except R=401(LC 1), L=401(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-R=-299/262, I-L=-299/262

NOTES- (12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, J, P, Q, N, M except (jt=lb) R=180, L=179.
11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	G02	COMMON	14	1	I31241163
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:34 2017 Page 1
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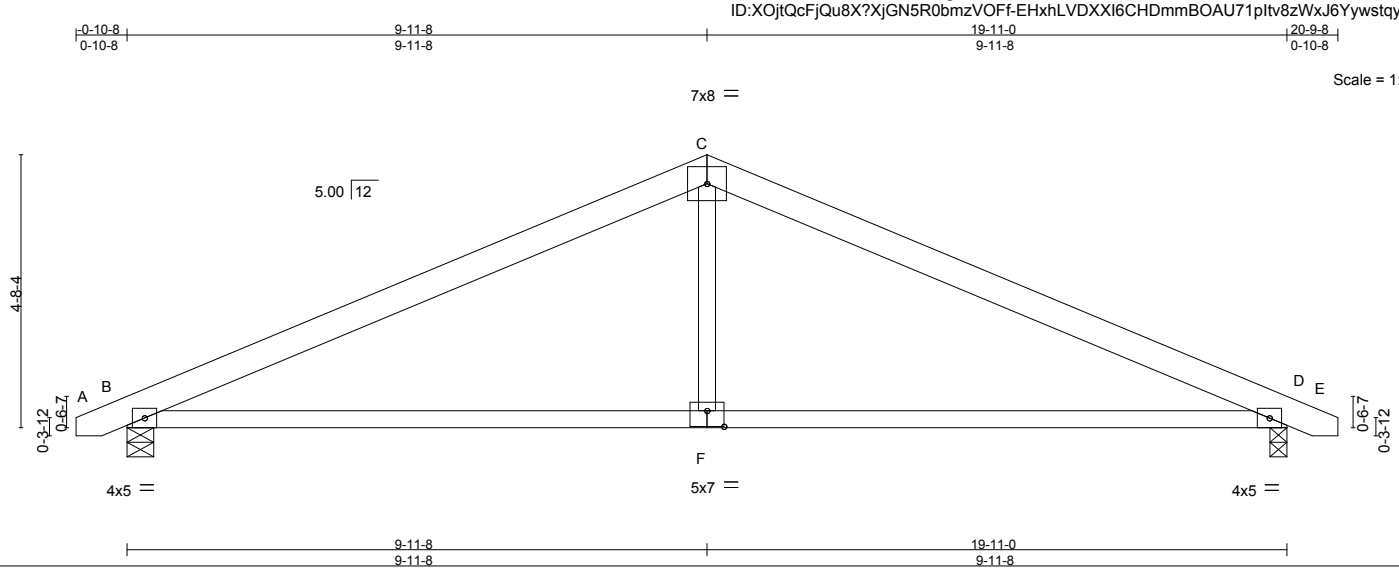

Plate Offsets (X,Y)-- [F:0-3-8,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.12	F-I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(TL)	-0.36	F-I	>666	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(TL)	0.03	D	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.08	F-I	>999	240	Weight: 91 lb	FT = 20%

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

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

REACTIONS. (lb/size) B=836/0-5-8, D=836/0-3-8
Max Horz B=-66(LC 9)
Max Uplift B=-108(LC 8), D=-108(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1227/514, C-D=-1227/514
BOT CHORD B-F=-326/1072, D-F=-326/1072
WEBS C-F=0/403

NOTES- (8)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=108, D=108.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	G03	Hip Girder	1	1	I31241164
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

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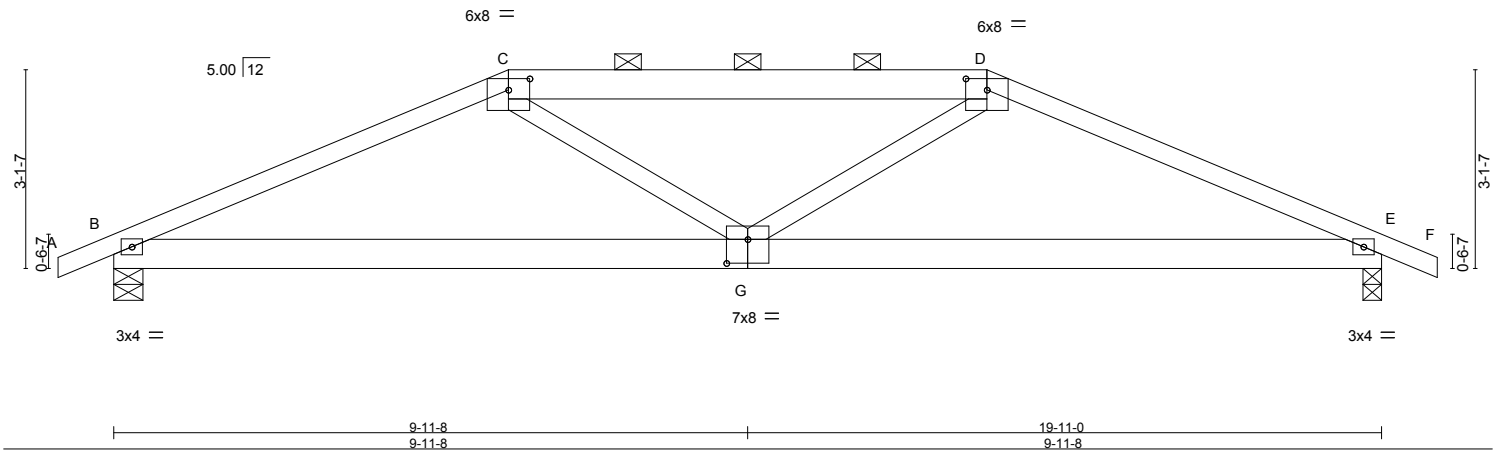
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-iTV3YrE9IcE3vNLyk6hjfEMUaJZ3FPbFncgQQGyXBdM

0-10-8 | 6-2-6 | 13-8-10 | 19-11-0 | 20-9-8
0-10-8 | 6-2-6 | 7-6-3 | 6-2-6 | 0-10-8

Scale = 1:36.2



9-11-8 | 19-11-0
9-11-8 | 9-11-8

Plate Offsets (X,Y)-- [C:0-4-0,0-2-2], [D:0-4-0,0-2-2], [G:0-4-0,0-4-8]

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	0.49	Vert(LL)	-0.06	G-M	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(TL)	-0.17	G-M	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.09	Horz(TL)	0.02	E	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-M)		Wind(LL)	0.04	G-J	>999	240	Weight: 100 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
C-D: 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-14 oc purlins, except 2-0-0 oc purlins (5-4-10 max.): C-D.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) B=849/0-5-8, E=849/0-3-8
Max Horz B=49(LC 6)
Max Uplift B=-92(LC 6), E=-92(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1408/176, C-D=-1406/91, D-E=-1408/176
BOT CHORD B-G=-101/1240, E-G=-104/1240
WEBS C-G=0/382, D-G=0/382

NOTES- (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, E.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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TRENCO
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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	J01	GABLE	7	1	I31241165
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:35 2017 Page 1
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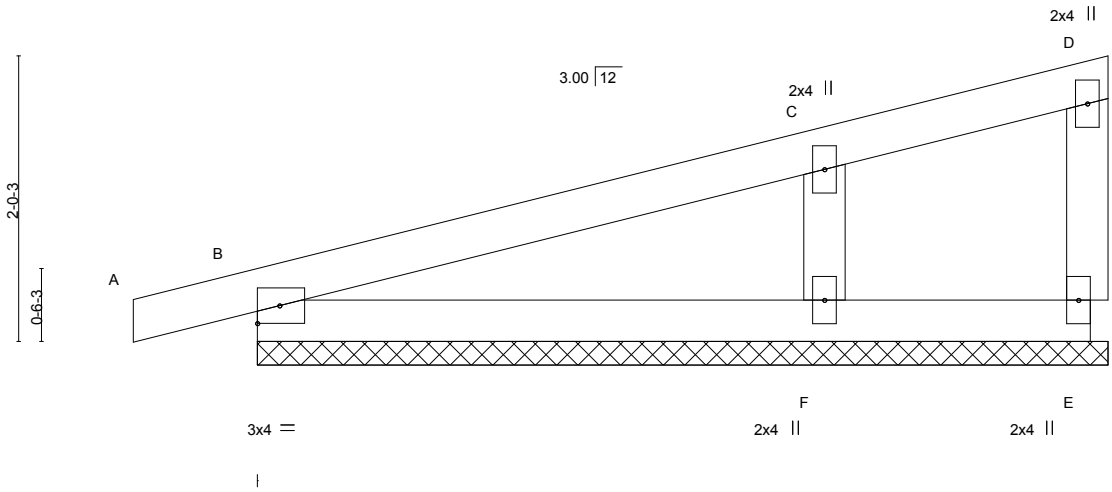

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	0.00	A	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	0.01	A	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(TL)	0.00	E	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix)							Weight: 23 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) E=14/6-0-0, B=190/6-0-0, F=317/6-0-0
Max Horz B=91(LC 7)
Max Uplift E=-6(LC 7), B=-93(LC 6), F=-119(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-F=-234/280

NOTES- (10)
1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E, B except (jt=lb) F=119.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	J02	Monopitch	35	1	I31241166
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:36 2017 Page 1

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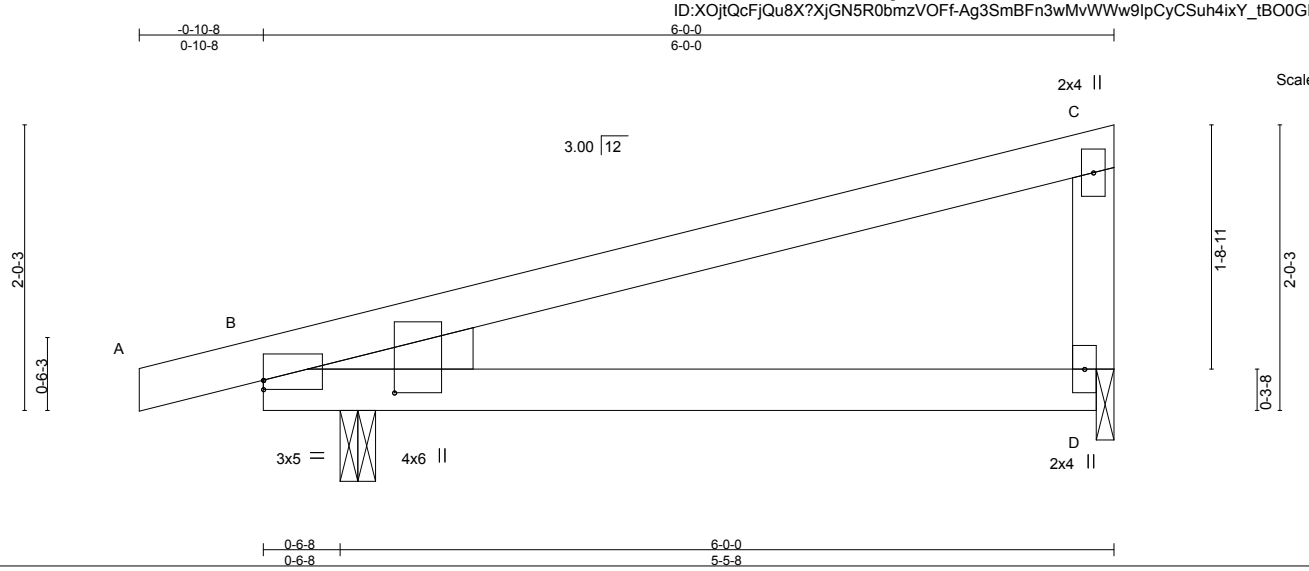

Plate Offsets (X,Y)-- [B:0-0-0,0-0-12], [B:0-1-1,0-11-1]

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	0.38	Vert(LL)	-0.03	D-I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(TL)	-0.09	D-I	>776	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.01	B	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.11	D-I	>633	240	Weight: 23 lb	FT = 20%

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

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

REACTIONS. (lb/size) B=320/0-3-0, D=201/0-1-8
Max Horz B=65(LC 6)
Max Uplift B=-165(LC 6), D=-107(LC 6)

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

NOTES- (9)
1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; cantilever left exposed ; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
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) Bearing at joint(s) D considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) D.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=165, D=107.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
9) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	J03	Monopitch	21	1	I31241167
					Job Reference (optional)

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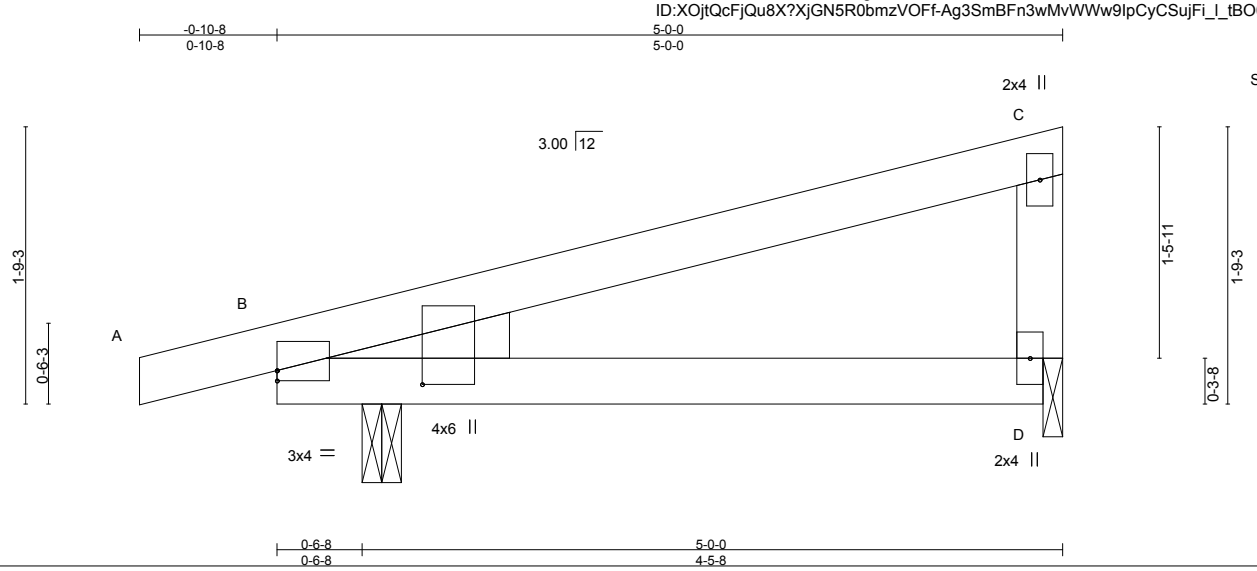

Plate Offsets (X,Y)-- [B:0-0-0,0-0-12], [B:0-1-1,0-11-1]

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	0.24	Vert(LL)	-0.01	D-I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(TL)	-0.04	D-I	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.01	B	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.05	D-I	>999	240	Weight: 20 lb	FT = 20%

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

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

REACTIONS. (lb/size) B=283/0-3-0, D=158/0-1-8
Max Horz B=56(LC 6)
Max Uplift B=-148(LC 6), D=-84(LC 6)

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

NOTES- (9)
1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; cantilever left exposed ; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
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) Bearing at joint(s) D considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) D.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) B=148.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
9) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

October 3,2017

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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	J04	GABLE	7	1	I31241168
					Job Reference (optional)

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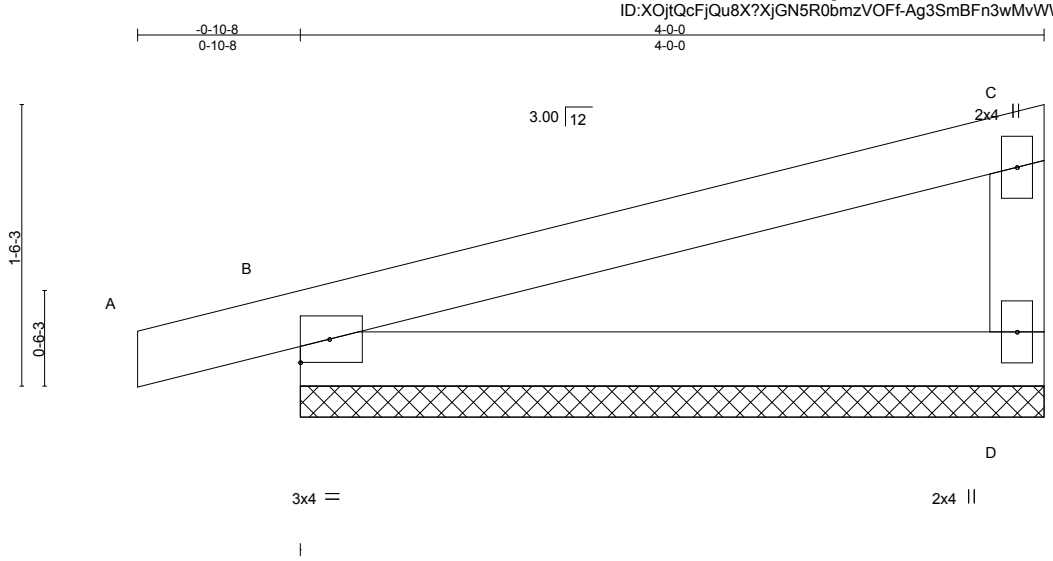

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	0.00	A	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	0.01	A	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	D	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix)							Weight: 15 lb	FT = 20%

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

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

REACTIONS. (lb/size) D=148/4-0-0, B=213/4-0-0
Max Horz B=48(LC 7)
Max Uplift D=-21(LC 6), B=-64(LC 8)

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

NOTES- (10)
1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D, B.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

October 3,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	J05	JACK-OPEN	50	1	I31241169
					Job Reference (optional)

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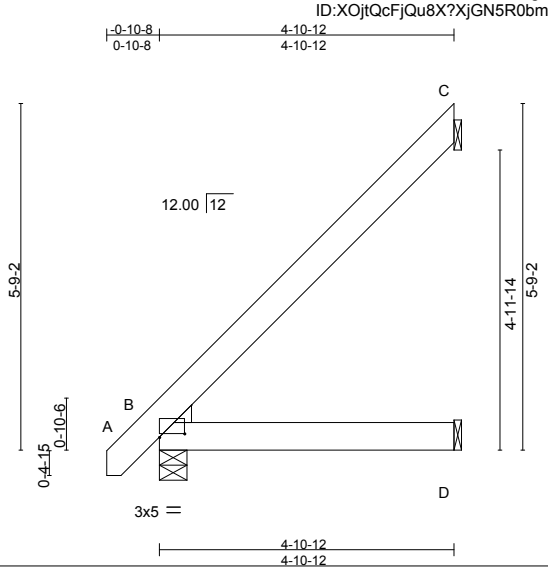

Plate Offsets (X,Y)-- [B:0-5-0,0-0-11]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.01	D-G	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	-0.02	D-G	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.01	C	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.01	D-G	>999	240	Weight: 32 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) C=128/Mechanical, B=242/0-5-8, D=62/Mechanical
Max Horz B=216(LC 8)
Max Uplift C=-123(LC 8)
Max Grav C=128(LC 1), B=242(LC 1), D=92(LC 3)

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

NOTES- (8)
1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) C=123.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

October 3,2017

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	J06	JACK-OPEN	11	1	I31241170
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:37 2017 Page 1
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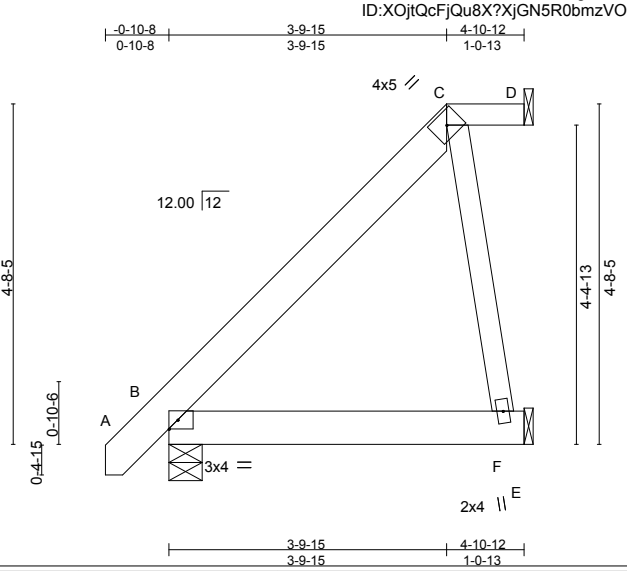

Scale: 3/8"=1'

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	0.11	Vert(LL)	-0.00	F-I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	-0.01	F-I	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(TL)	-0.00	D	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.01	F-I	>999	240	Weight: 35 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins: C-D.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS. (lb/size) D=30/Mechanical, B=236/0-5-8, F=168/Mechanical
Max Horz B=186(LC 8)
Max Uplift D=-15(LC 6), F=-79(LC 8)

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

NOTES- (11)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
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) D, F.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" 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.
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	J07	JACK-OPEN	11	1	I31241171
					Job Reference (optional)

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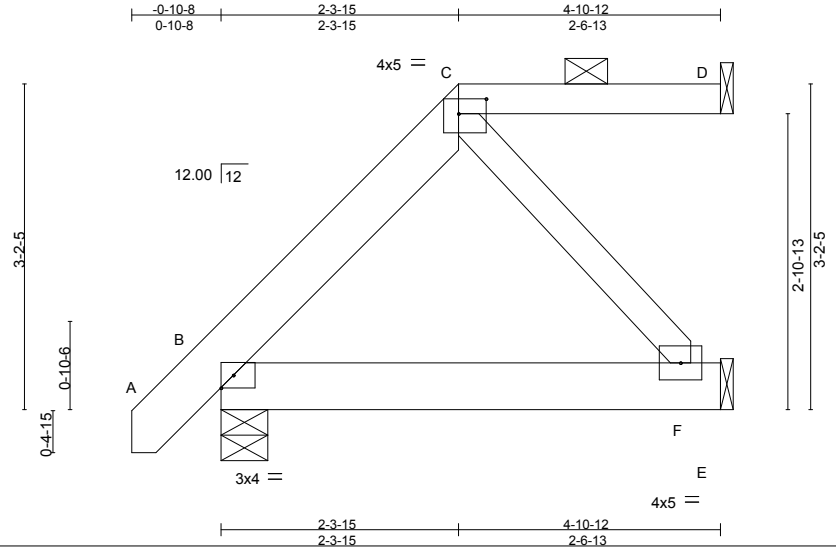

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Plate Offsets (X,Y)-- [C:0-3-4,0-1-12]

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	0.11	Vert(LL)	-0.01	F-I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	-0.01	F-I	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(TL)	0.00	D	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.00	F-I	>999	240	Weight: 31 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins: C-D.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) D=75/Mechanical, B=242/0-5-8, E=115/Mechanical
Max Horz B=132(LC 8)
Max Uplift D=-38(LC 6), B=-28(LC 8), E=-17(LC 8)
Max Grav D=75(LC 1), B=242(LC 1), E=119(LC 3)

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

NOTES- (11)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
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) D, B, E.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" 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.
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	J08	HALF HIP GIRDER	12	1	I31241172
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:38 2017 Page 1
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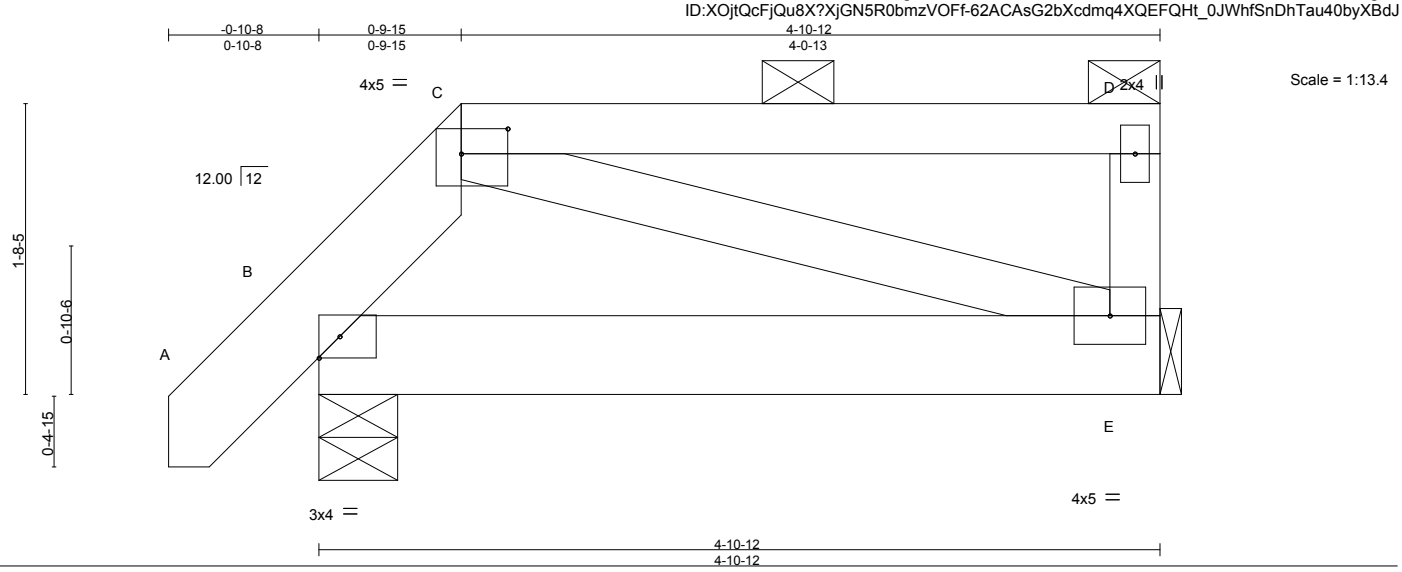

Plate Offsets (X,Y)-- [C:0-3-4,0-1-12]

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	0.33	Vert(LL)	-0.00	E-H	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	-0.01	E-H	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.03	Horz(TL)	0.00	B	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-M)		Wind(LL)	0.00	H	>999	240	Weight: 31 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except* C-D: 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS. (lb/size) B=239/0-5-8, E=186/Mechanical
Max Horz B=79(LC 6)
Max Uplift B=-37(LC 6), E=-39(LC 4)

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

NOTES- (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
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) B, E.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

October 3,2017

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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	J09	Jack-Open	24	1	I31241173
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:38 2017 Page 1
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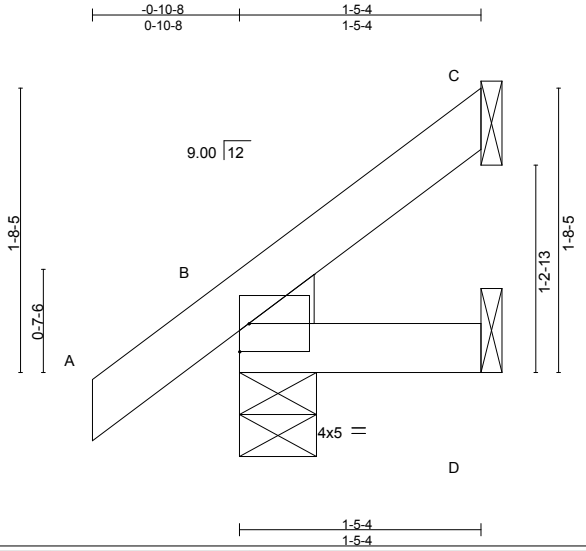

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	G	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	-0.00	G	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	C	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-M)		Wind(LL)	0.00	G	>999	240	Weight: 7 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-5-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) C=28/Mechanical, B=126/0-5-8, D=13/Mechanical
Max Horz B=75(LC 8)
Max Uplift C=-19(LC 8), B=-38(LC 8)
Max Grav C=28(LC 1), B=126(LC 1), D=23(LC 3)

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

NOTES- (8)
1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C, B.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

October 3,2017

ENGINEERING BY
TRENCO
A MiTek Affiliate
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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	J10	Jack-Open	4	1	I31241174
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:38 2017 Page 1

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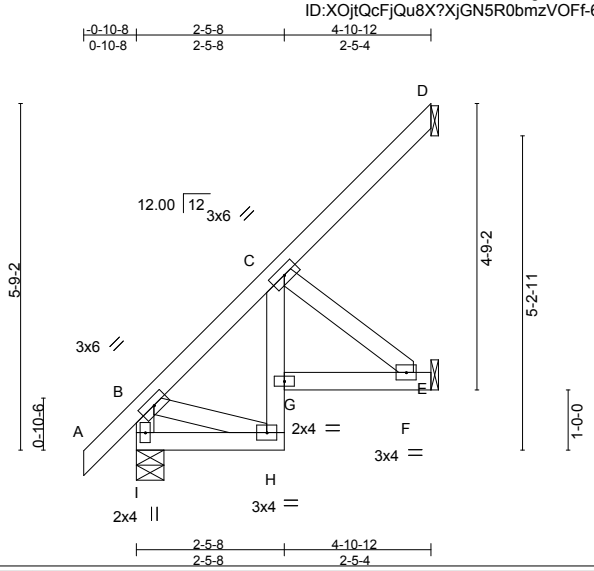

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	-0.00	G	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(TL)	-0.01	F-G	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(TL)	-0.02	E	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.01	H	>999	240	Weight: 31 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, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) I=255/0-5-8, D=68/Mechanical, E=112/Mechanical
Max Horz I=242(LC 8)
Max Uplift D=-68(LC 8), E=-65(LC 8)
Max Grav I=255(LC 1), D=68(LC 1), E=113(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD H-I=-339/0
WEBS C-F=-154/262

NOTES- (8)

1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D, E.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

October 3,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/ I31241175
1238844_MASTER	J11	Jack-Open	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:39 2017 Page 1

ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-bFkaOCHgMrkUN_fjzymfq4WDTwzWBEGriEedZ1yXBdI

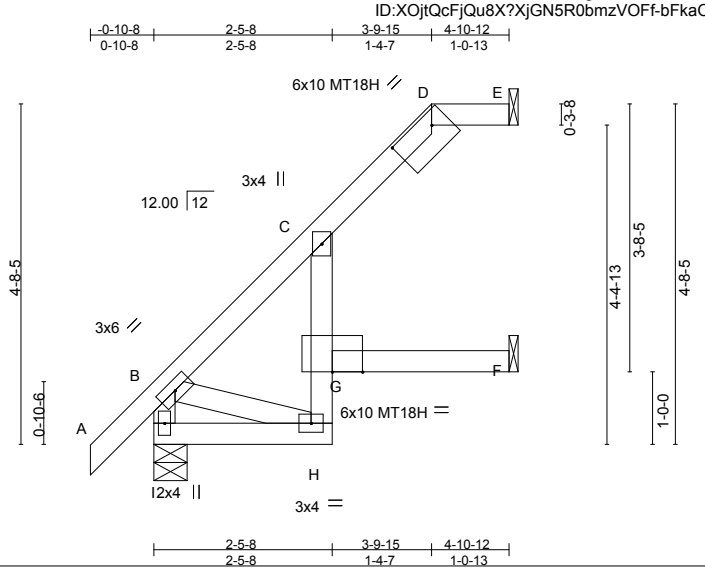

Plate Offsets (X,Y)-- [D:0-7-4,0-2-0]

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	0.24	Vert(LL)	-0.02	G	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(TL)	-0.06	F-G	>900	240	MT18H	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(TL)	-0.07	E	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.06	F-G	>924	240	Weight: 27 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, except end verticals, and 2-0-0 oc purlins: D-E.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) I=255/0-5-8, E=104/Mechanical, F=77/Mechanical
Max Horz I=209(LC 8)
Max Uplift I=-1(LC 8), E=-58(LC 8), F=-29(LC 8)
Max Grav I=255(LC 1), E=104(LC 1), F=85(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD H-I=-255/30

NOTES- (12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
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) I, E, F.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" 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.
12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

October 3,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	J12	Jack-Open	1	1	I31241176
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:39 2017 Page 1
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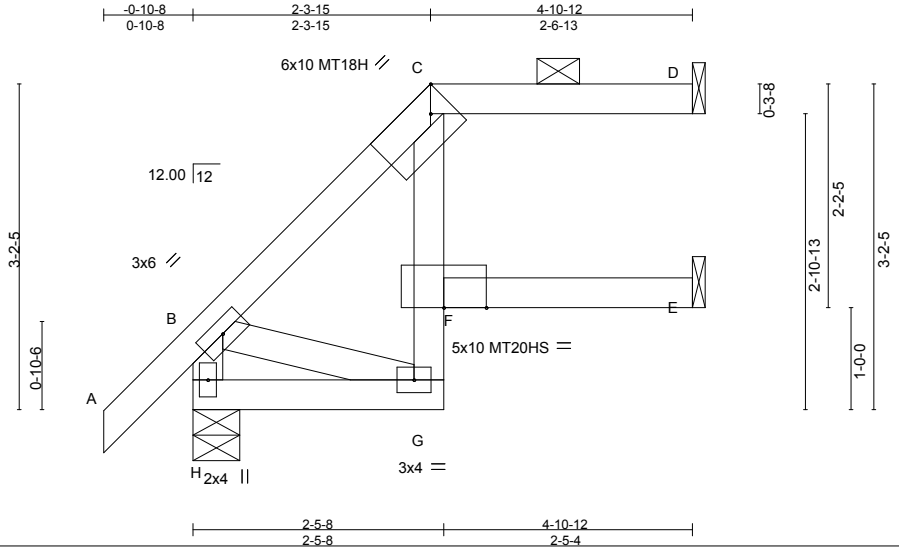

Plate Offsets (X,Y)-- [C:0-2-8,Edge]

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	0.24	Vert(LL)	-0.02	E-F	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(TL)	-0.05	E-F	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(TL)	0.06	D	n/a	n/a	MT18H	244/190
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.04	E-F	>999	240	Weight: 26 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, except end verticals, and 2-0-0 oc purlins: C-D.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) H=255/0-5-8, D=108/Mechanical, E=73/Mechanical
Max Horz H=154(LC 8)
Max Uplift H=-36(LC 8), D=-39(LC 7), E=-7(LC 8)
Max Grav H=255(LC 1), D=108(LC 1), E=82(LC 3)

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

NOTES- (12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
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) H, D, E.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" 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.
12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

October 3,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	J13	Jack-Open	5	1	I31241177
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:40 2017 Page 1
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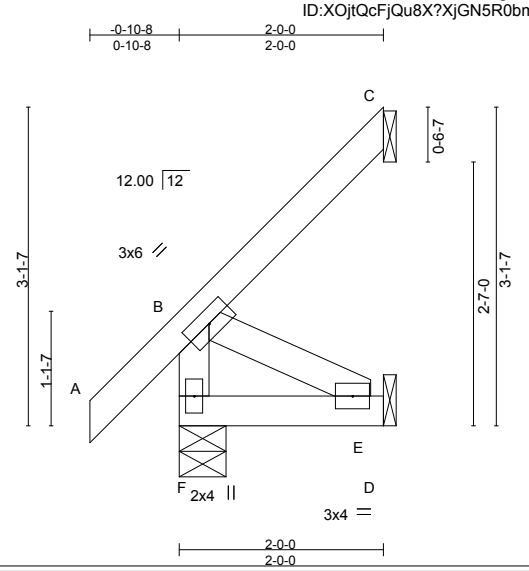

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	-0.00	F	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	-0.00	E-F	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(TL)	-0.00	C	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-M)		Wind(LL)	0.00	F	>999	240	Weight: 13 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
B-E: 2x4 SP No.3

BRACING-

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

REACTIONS. (lb/size) F=152/0-5-8, C=38/Mechanical, D=19/Mechanical
Max Horz F=147(LC 8)
Max Uplift C=-29(LC 7), D=-54(LC 8)
Max Grav F=152(LC 1), C=38(LC 1), D=38(LC 3)

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

NOTES- (8)

1) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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 basic load combinations, which include cases with reductions for multiple concurrent live loads.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C, D.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

October 3,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	J14	Half Hip	2	1	I31241178
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:40 2017 Page 1
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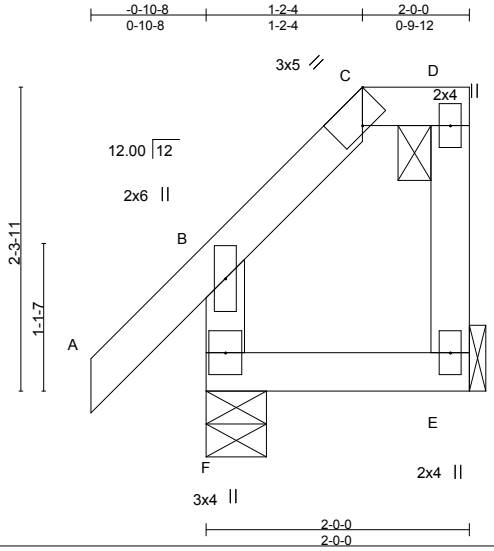

Plate Offsets (X,Y)-- [C:0-2-8,Edge]

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	0.14	Vert(LL)	-0.00	F	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	-0.00	F	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	E	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-M)		Wind(LL)	0.00	F	>999	240	Weight: 13 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
D-E: 2x4 SP No.3

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

REACTIONS. (lb/size) E=50/Mechanical, F=148/0-5-8
Max Horz F=98(LC 7)
Max Uplift E=-57(LC 7), F=-44(LC 8)

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

NOTES- (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
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) E, F.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

October 3,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	J15	Half Hip	2	1	I31241179
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:40 2017 Page 1
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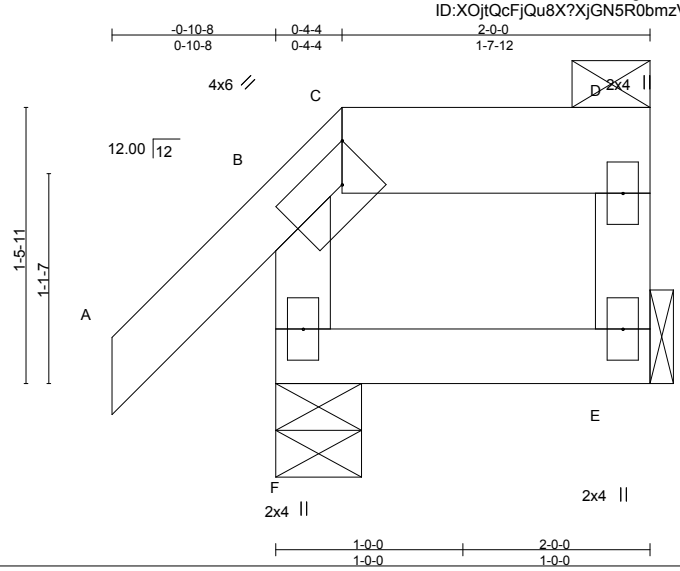

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Plate Offsets (X,Y)-- [C:0-2-0,Edge]

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	0.12	Vert(LL)	-0.00	F	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	-0.00	F	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	E	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-M)		Wind(LL)	0.00	F	>999	240	Weight: 12 lb	FT = 20%

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

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

REACTIONS. (lb/size) E=50/Mechanical, F=140/0-5-8
Max Horz F=59(LC 7)
Max Uplift E=-25(LC 7), F=-45(LC 8)
Max Grav E=62(LC 14), F=140(LC 1)

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

NOTES- (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-10-8 to 1-10-4 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
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) E, F.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

October 3,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	PB01	GABLE	6	1	I31241180
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:41 2017 Page 1
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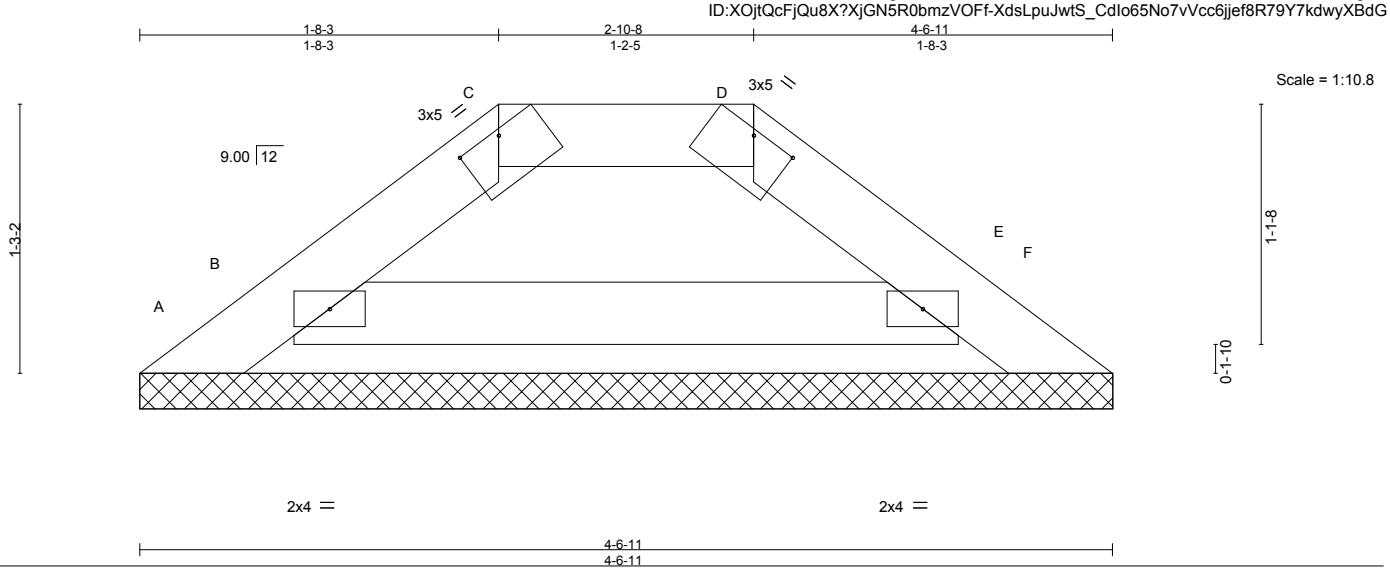

Plate Offsets (X,Y)-- [C:0-2-8,0-0-5], [D:0-2-8,0-0-5]

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	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	F	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 13 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-11 oc purlins, except 2-0-0 oc purlins: C-D.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=-11/4-6-11, F=-11/4-6-11, B=175/4-6-11, E=175/4-6-11
Max Horz A=-35(LC 6)
Max Uplift A=-30(LC 6), F=-25(LC 3), B=-34(LC 7), E=-13(LC 6)
Max Grav A=21(LC 7), B=175(LC 1), E=175(LC 1)

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

NOTES- (14)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) Provide adequate drainage to prevent water ponding.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, F, B, E.
11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

October 3,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	PB02	GABLE	135	1	I31241181
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:41 2017 Page 1
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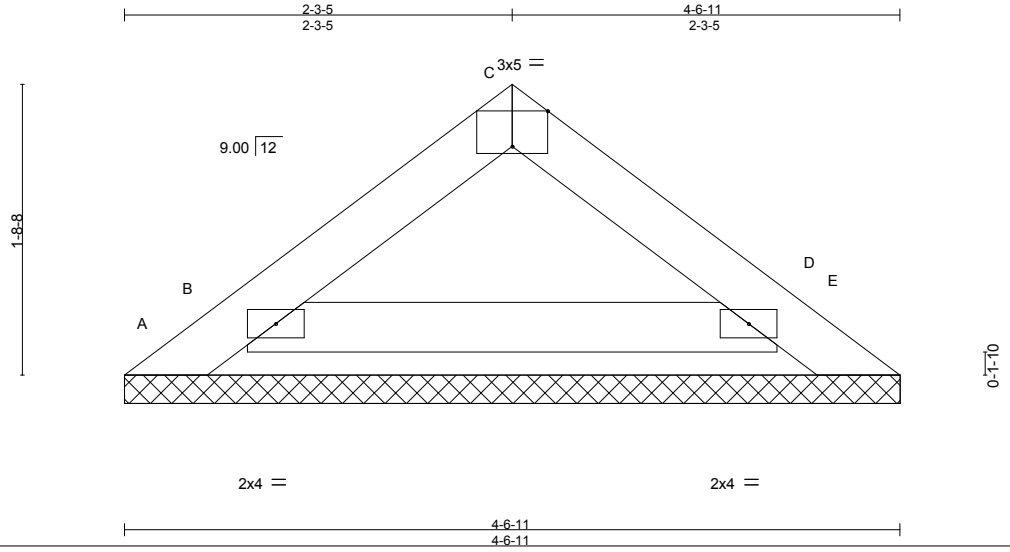

Plate Offsets (X,Y)-- [C:0-2-8,Edge]

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	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	E	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix)							Weight: 13 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 4-6-11.
(lb) - Max Horz A=-47(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) A, E, B, D
Max Grav All reactions 250 lb or less at joint(s) A, E, B, D

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

NOTES- (12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, E, B, D.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

October 3,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Wilmington/
1238844_MASTER	PB03	GABLE	8	1	I31241182
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Aug 16 2017 MiTek Industries, Inc. Tue Oct 03 07:31:42 2017 Page 1
ID:XOjtQcFjQu8X?XjGN5R0bmzVOFf-?qQj0EJYem73ERNlf4JMSj8nu73CObgHOCsH9MyXBdF

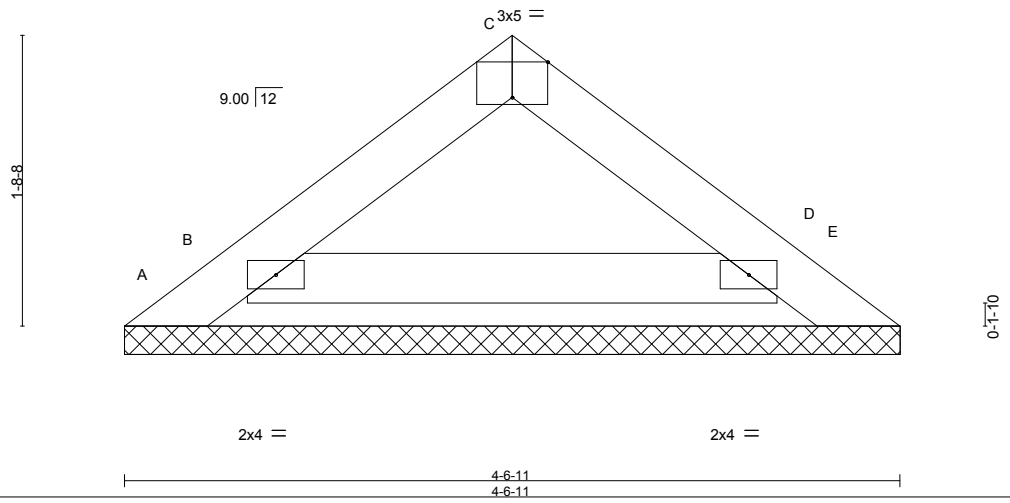

Plate Offsets (X,Y)-- [C:0-2-8,Edge]

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	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	D	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix)							Weight: 13 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 4-6-11.
(lb) - Max Horz A=-59(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) A, E, B, D
Max Grav All reactions 250 lb or less at joint(s) A, E, B, D

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

NOTES- (12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 100mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
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10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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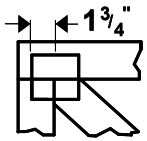
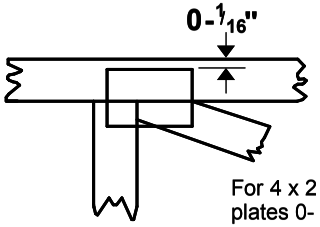
Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

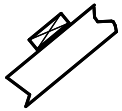
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

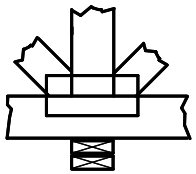
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

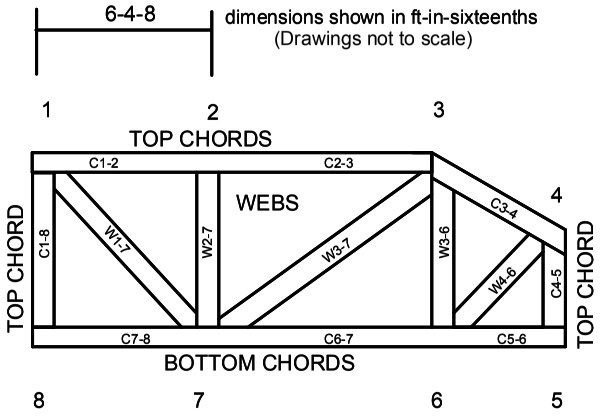


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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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.