ENGINEERING BY
TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

RE: 1110004_OFA - H&H-NC/Topsail/

Site Information:

Project Customer: H and H Project Name: 1110004
Lot/Block: A Subdivision:
Model:
Address: All
City: Fayetteville State: NC

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

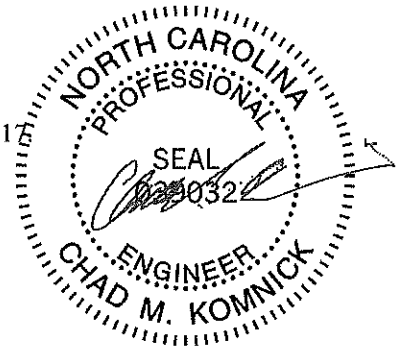
Design Code: IRC2009/TPI2007
Design Program: MiTek 20/20 7.6
Wind Code: ASCE 7-05 Wind Speed: 130 mph
Design Method: MWFRS(low-rise)/C-C hybrid Wind ASCE 7-05
Roof Load: 40.0 psf
Floor Load: N/A psf

Mean Roof Height (feet): 25
Exposure Category: C

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I30128612	A01	6/12/17	35	I30128646	J11	6/12/17
2	I30128613	A02	6/12/17	36	I30128647	J12	6/12/17
3	I30128614	A03	6/12/17	37	I30128648	V01	6/12/17
4	I30128615	A04	6/12/17	38	I30128649	V02	6/12/17
5	I30128616	A05	6/12/17	39	I30128650	V03	6/12/17
6	I30128617	A06	6/12/17				
7	I30128618	A07	6/12/17				
8	I30128619	A08	6/12/17				
9	I30128620	A09	6/12/17				
10	I30128621	A10	6/12/17				
11	I30128622	A11	6/12/17				
12	I30128623	A12	6/12/17				
13	I30128624	A13	6/12/17				
14	I30128625	A14	6/12/17				
15	I30128626	B01	6/12/17				
16	I30128627	B02	6/12/17				
17	I30128628	B03	6/12/17				
18	I30128629	B04	6/12/17				
19	I30128630	B05	6/12/17				
20	I30128631	C01	6/12/17				
21	I30128632	C02	6/12/17				
22	I30128633	C03	6/12/17				
23	I30128634	CP01	6/12/17				
24	I30128635	CP02	6/12/17				
25	I30128636	J01	6/12/17				
26	I30128637	J02	6/12/17				
27	I30128638	J03	6/12/17				
28	I30128639	J04	6/12/17				
29	I30128640	J05	6/12/17				
30	I30128641	J06	6/12/17				
31	I30128642	J07	6/12/17				
32	I30128643	J08	6/12/17				
33	I30128644	J09	6/12/17				
34	I30128645	J10	6/12/17				

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: Komnick, Chad
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.

June 12,2017

Komnick, Chad

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128612
1110004_OFA	A01	GABLE	3	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:21 2017 Page 1
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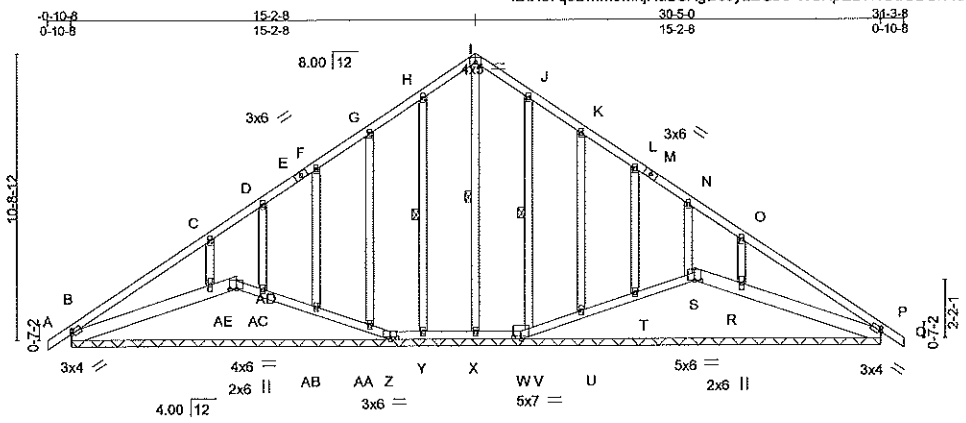


	6-2-8	11-11-8	16-11-0	23-5-4	30-5-0
	6-2-8	5-9-0	4-11-8	6-6-4	6-11-12

Plate Offsets (X,Y)-- [B:0-1-0,0-1-8], [P:0-1-0,0-1-8], [S:0-3-0,0-0-0], [W:0-3-8,0-1-3], [Z:0-3-0,0-1-0], [AD:0-3-0,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	0.01	Q	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(TL)	0.02	Q	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.25	Horz(TL)	0.02	P	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 209 lb	FT = 20%

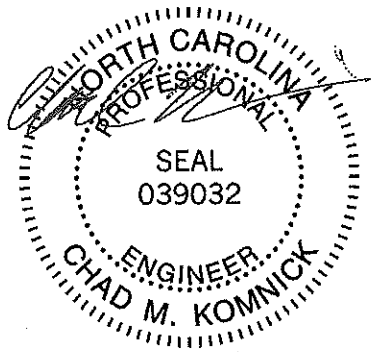
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B-AD,P-S: 2x6 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: AD-AE,R-S.
WEBS 1 Row at midpt I-X, H-Y, J-V

REACTIONS. All bearings 30-5-0.
(lb) - Max Horz B=-687(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) S, AC except B=-311(LC 6), AD=-104(LC 3), Z=-144(LC 9), W=-153(LC 9), P=-182(LC 9), Y=-192(LC 8), AA=-210(LC 8), AB=-232(LC 8), AE=-591(LC 8), V=-177(LC 9), U=-208(LC 9), T=-243(LC 9), R=-568(LC 9)
Max Grav All reactions 250 lb or less at joint(s) Z, W, P, Y, AA, AB, AC, V, U, T except B=277(LC 7), AD=289(LC 9), S=259(LC 9), X=471(LC 9), AE=473(LC 1), R=427(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-563/412, C-D=-316/351, D-E=-272/348, E-F=-262/356, F-G=-169/364, G-H=-78/466, H-I=-55/547, I-J=-55/546, J-K=-51/428, K-L=-54/293, O-P=-330/170
BOT CHORD B-AE=-152/466, AD-AE=-125/463, AC-AD=-134/467, AB-AC=-136/470, AA-AB=-136/470, Z-AA=-133/470, Y-Z=-125/442, X-Y=-125/442, W-X=-125/442, V-W=-130/472, U-V=-136/470, T-U=-136/470, S-T=-138/473, R-S=-143/481, P-R=-136/469
WEBS I-X=-447/0, F-AB=-137/258, C-AE=-277/553, L-T=-137/260, O-R=-277/551

NOTES- (13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; 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) S, AC except (jt=lb) B=311, AD=104, Z=144, W=153, P=182, Y=192, AA=210, AB=232, AE=591, V=177, U=208, T=243, R=568.
11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) AD, S, AA, AB, AC, AE, V, U, T, R.
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.



June 12,2017

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TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128613
1110004_OFA	A02	Roof Special	14	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:22 2017 Page 1
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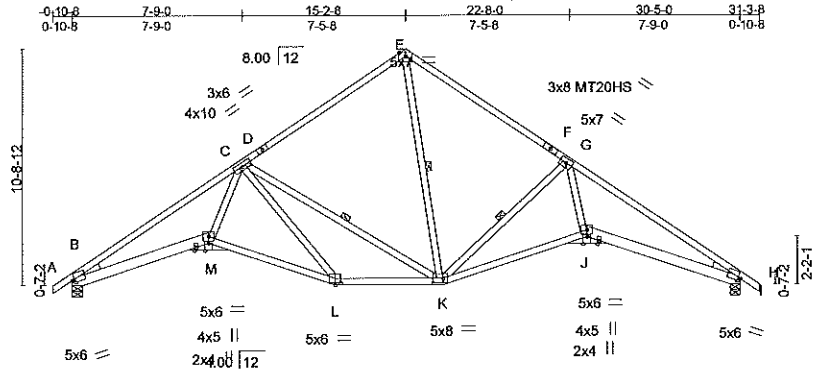


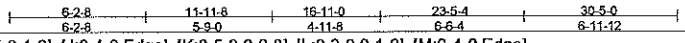


Plate Offsets (X,Y)-- [B:0-1-5,0-1-8], [H:0-1-5,0-1-8], [J:0-4-0,Edge], [K:0-5-8,0-2-8], [L:0-3-0,0-1-0], [M:0-4-0,Edge]

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	0.96	Vert(LL)	-0.19	J-K	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(TL)	-0.53	J-K	>684	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.64	Horz(TL)	0.35	H	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.32	J-K	>999	240	Weight: 188 lb	FT = 20%

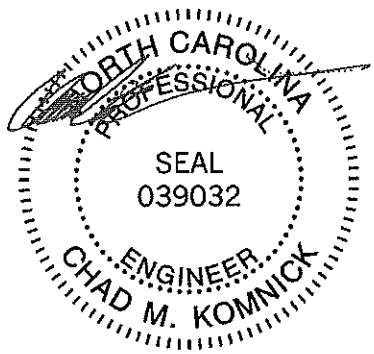
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B-M,H-J: 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt C-K, E-K, G-K

REACTIONS. (lb/size) B=1269/0-5-8, H=1269/0-5-8
Max Horz B=-669(LC 6)
Max Uplift B=-906(LC 8), H=-906(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-3006/1985, C-D=-1154/1006, D-E=-1027/1051, E-F=-1181/1197, F-G=-1304/1153, G-H=-3016/1990
BOT CHORD B-M=-1741/2508, L-M=-1360/1914, K-L=-893/1418, J-K=-1265/2146, H-J=-1458/2517
WEBS C-M=-949/1517, C-L=-621/622, C-K=-674/727, E-K=-733/789, G-K=-1441/1237, G-J=-776/1554

NOTES- (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) B, H considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=906, H=906.
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) 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.



June 12,2017

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128614
1110004_OFA	A03	Common	4	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:23 2017 Page 1
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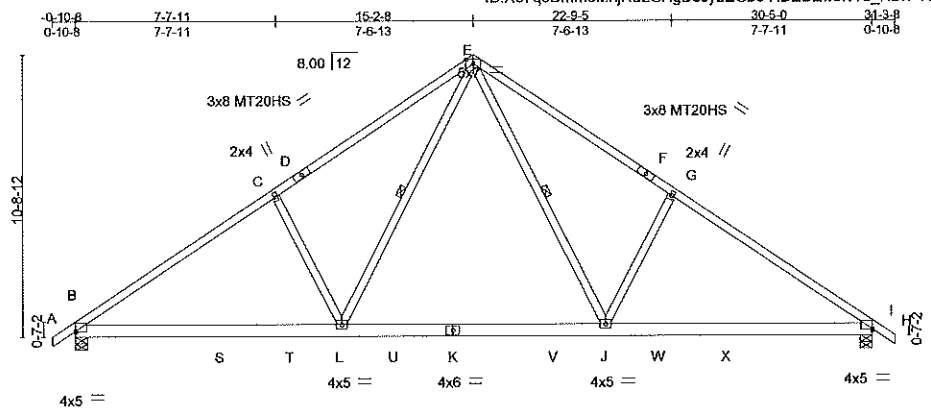


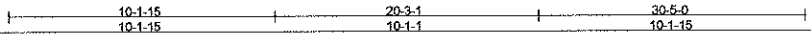


Plate Offsets (X,Y)-- [B:0-0-0,0-0-7], [H:Edge,0-0-7]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.14	J-L	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(TL)	-0.26	J-L	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(TL)	0.04	H	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.14	L-O	>999	240	Weight: 179 lb	FT = 20%

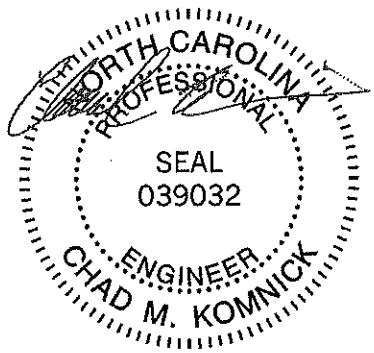
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt E-J, E-L

REACTIONS. (lb/size) B=1269/0-5-8, H=1269/0-5-8
Max Horz B=669(LC 7)
Max Uplift B=-907(LC 8), H=-907(LC 9)
Max Grav B=1280(LC 2), H=1280(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1808/1295, C-D=-1650/1391, D-E=-1539/1437, E-F=-1539/1437, F-G=-1650/1391, G-H=-1808/1295
BOT CHORD B-S=-960/1428, S-T=-960/1428, L-T=-960/1428, L-U=-331/952, K-U=-331/952, K-V=-331/952, J-V=-331/952, J-W=-814/1428, W-X=-814/1428, H-X=-814/1428
WEBS E-J=-659/764, G-J=-416/768, E-L=-658/764, C-L=-416/768

NOTES- (9)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=907, H=907.
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.



June 12,2017

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128615
1110004_OFA	A04	Common	8	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:24 2017 Page 1
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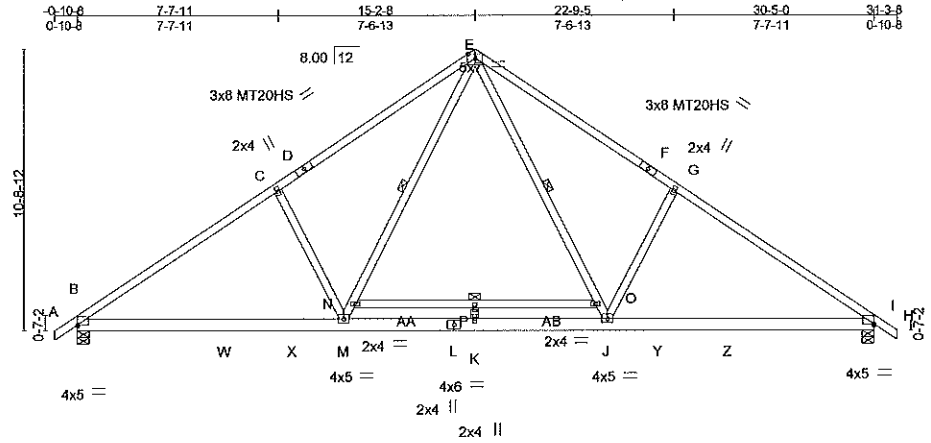


Plate Offsets (X,Y)-- [B:0-0-0,0-0-7], [H:Edge,0-0-7]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.18	K	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(TL)	-0.29	K	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.41	Horz(TL)	0.04	H	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.14	M-S	>999	240	Weight: 193 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* A-D,F-I: 2x4 SP No.1
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* N-O: 2x4 SP No.2

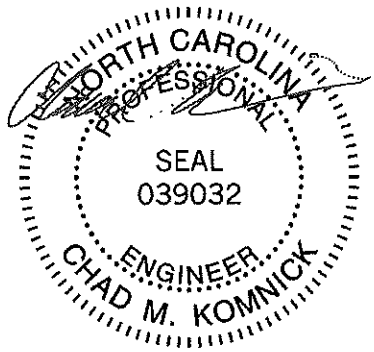
BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt E-J, E-M, N-O

REACTIONS. (lb/size) B=1269/0-5-8, H=1269/0-5-8
Max Horz B=-669(LC 6)
Max Uplift B=-907(LC 8), H=-907(LC 9)
Max Grav B=1270(LC 2), H=1270(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1786/1297, C-D=-1628/1394, D-E=-1516/1440, E-F=-1516/1440, F-G=-1628/1394, G-H=-1786/1297
BOT CHORD B-W=-963/1410, W-X=-963/1410, M-X=-963/1410, L-M=-384/1020, K-L=-384/1020, J-K=-384/1020, J-Y=-817/1410, Y-Z=-817/1410, H-Z=-817/1410
WEBS E-O=-663/753, J-O=-641/702, G-J=-418/772, M-N=-642/702, E-N=-663/753, C-M=-418/772

NOTES- (9)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=907, H=907.
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.

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-I=-60, Q-T=-20



June 12,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128616
1110004_OFA	A05	Roof Special	8	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:25 2017 Page 1
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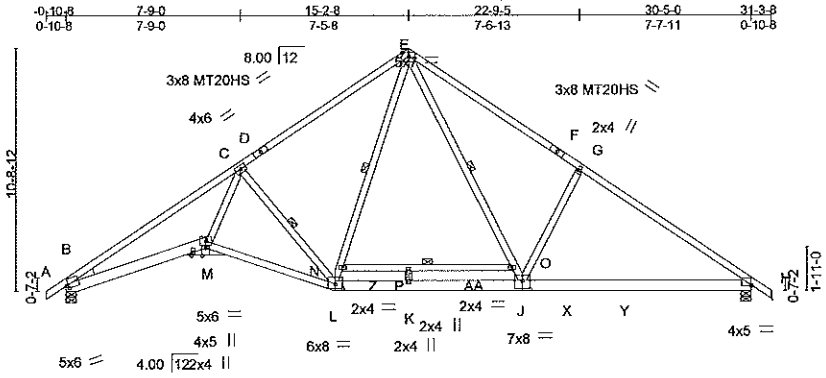


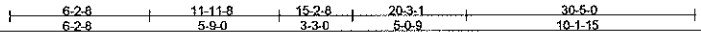


Plate Offsets (X,Y)-- [B:0-1-5,0-1-8], [H:0-0-0,0-0-7], [J:0-4-0,0-4-8], [L:0-4-0,0-2-6], [M:0-4-0,Edge]

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	0.80	Vert(LL)	-0.14	K	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(TL)	-0.36	L-M	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.62	Horz(TL)	0.17	H	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.24	L-M	>999	240	Weight: 198 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* A-D,F-I: 2x4 SP No.1
BOT CHORD 2x6 SP No.2 *Except* L-M,M-Q: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* N-O: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

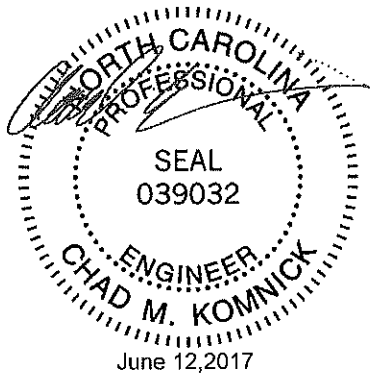
BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt C-L, E-L, E-J, N-O

REACTIONS. (lb/size) B=1269/0-5-8, H=1269/0-5-8
Max Horz B=-669(LC 6)
Max Uplift B=-906(LC 8), H=-906(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2998/1977, C-D=-1397/1250, D-E=-1271/1294, E-F=-1452/1442, F-G=-1563/1396, G-H=-1750/1300
BOT CHORD B-M=-1731/2501, L-M=-1336/1884, K-L=-373/959, J-K=-372/959, J-X=-819/1365, X-Y=-819/1365, H-Y=-819/1365
WEBS C-M=-946/1506, C-L=-1180/1261, L-N=-519/540, E-N=-529/579, E-O=-670/737, J-O=-651/690, G-J=-417/773

NOTES- (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Bearing at joint(s) B considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=906, H=906.
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) 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



June 12,2017

Continued on page 2

ENGINEERING BY TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128616
1110004_OFA	A05	Roof Special	8	1	Job Reference (optional)

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-I=-60, M-R=-20, L-M=-20, L-U=-20

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128617
1110004_OFA	A06	ROOF SPECIAL	8	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:26 2017 Page 1
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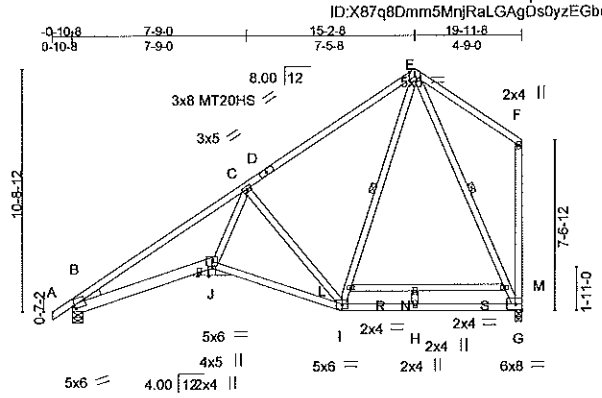


Scale: 1/8"=1'

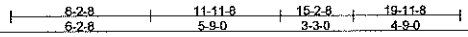


Plate Offsets (X,Y)-- [B:0-1-5,0-1-8], [J:0-4-0,Edge]

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	0.63	Vert(LL)	-0.21	G-H	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(TL)	-0.35	G-H	>679	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.87	Horz(TL)	-0.09	G	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.13	J	>999	240	Weight: 148 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1 *Except*
E-F: 2x4 SP No.2, A-D: 2x4 SP SS
BOT CHORD 2x4 SP No.2 *Except*
B-J: 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
F-G,L-M: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

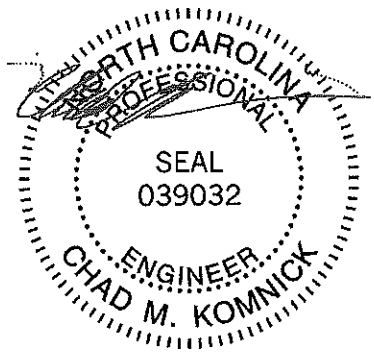
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-1-9 oc bracing.
WEBS 1 Row at midpt E-I, E-G

REACTIONS. (lb/size) B=873/0-5-8, G=816/0-3-8
Max Horz B=790(LC 8)
Max Uplift B=-568(LC 8), G=-691(LC 8)
Max Grav B=873(LC 1), G=827(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1817/1416, C-D=-683/547, D-E=-540/593
BOT CHORD B-J=-1748/1487, I-J=-1333/1090, H-I=-296/320, G-H=-296/320
WEBS C-J=-982/963, C-I=-934/1333, I-L=-581/549, E-L=-575/650, E-M=-664/650, G-M=-700/654

NOTES- (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; 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 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) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) B considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=568, G=691.
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.

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, J-O=-21, I-J=-21, G-I=-21



June 12,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128618
1110004_OFA	A07	Roof Special	8	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:26 2017 Page 1
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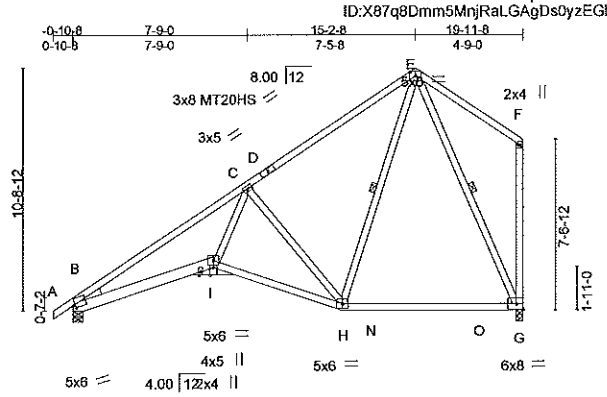


Scale: 1/8"=1'

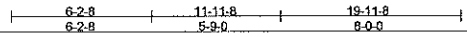


Plate Offsets (X,Y)-- [B:0-1-5,0-1-8], [I:0-4-0,Edge]

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	0.90	Vert(LL)	-0.22	G-H	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(TL)	-0.42	G-H	>562	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.83	Horz(TL)	-0.09	G	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.14	H-I	>999	240	Weight: 137 lb	FT = 20%

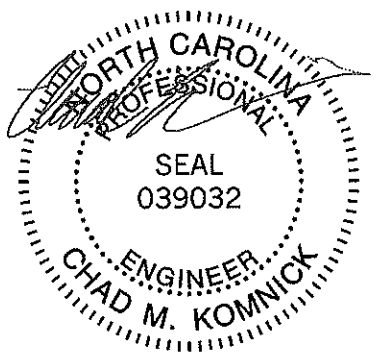
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B-I: 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
F-G: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt E-H, E-G

REACTIONS. (lb/size) B=846/0-5-8, G=791/0-3-8
Max Horz B=766(LC 8)
Max Uplift B=-551(LC 8), G=-670(LC 8)
Max Grav B=846(LC 1), G=805(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1752/1360, C-D=-664/524, D-E=-530/568
BOT CHORD B-I=-1682/1431, H-I=-1282/1049, H-N=-263/276, N-O=-263/276, G-O=-263/276
WEBS C-I=-946/922, C-H=-890/1274, E-H=-542/587, E-G=-651/651

NOTES- (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; 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 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) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Bearing at joint(s) B considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=551, G=670.
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) 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.



June 12,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128619
1110004_OFA	A08	Common	23	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:27 2017 Page 1
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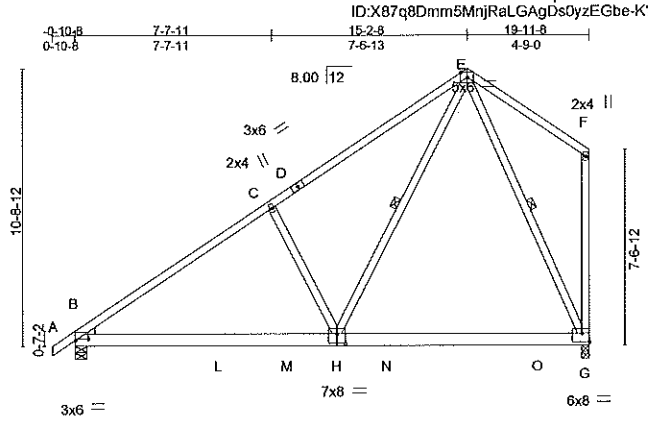


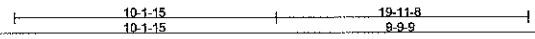


Plate Offsets (X,Y)-- [B:0-6-0,0-0-9], [G:Edge,0-4-0], [H:0-4-0,0-4-8]

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	0.85	Vert(LL)	-0.12	G-H	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(TL)	-0.21	G-H	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.44	Horz(TL)	-0.02	G	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.13	H-K	>999	240	Weight: 136 lb	FT = 20%

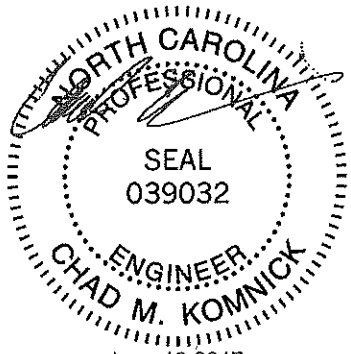
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
F-G: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt E-H, E-G

REACTIONS. (lb/size) G=791/0-3-8, B=846/0-5-8
Max Horz B=766(LC 8)
Max Uplift G=-665(LC 8), B=-556(LC 8)
Max Grav G=852(LC 2), B=846(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1037/574, C-D=-881/673, D-E=-764/719
BOT CHORD B-L=-910/790, L-M=-910/790, H-M=-910/790, H-N=-268/282, N-O=-268/282, G-O=-268/282
WEBS C-H=-422/783, E-H=-673/812, E-G=-653/655

NOTES- (8)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; 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 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) except (jt=lb) G=665, B=556.
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.



June 12,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128620
1110004_OFA	A09	GABLE	3	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:28 2017 Page 1
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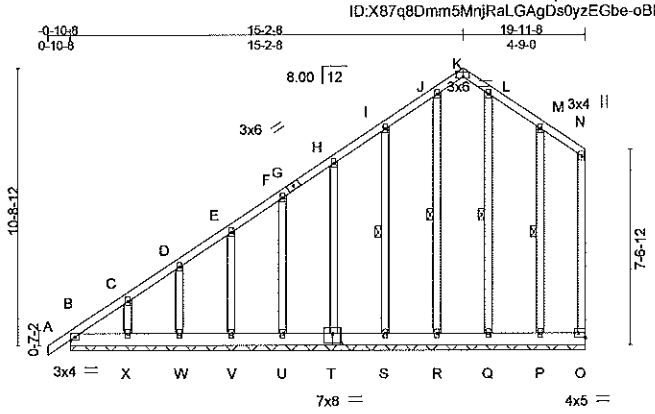


Scale = 1:84.0

19-11-8
19-11-8

Plate Offsets (X,Y)-- [K:0-3-0,Edge], [O:Edge,0-2-0], [T: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	0.74	Vert(LL)	-0.00	A	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	-0.00	A	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(TL)	0.00	O	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 176 lb	FT = 20%

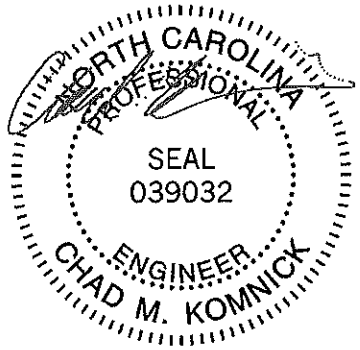
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt J-R, I-S, L-Q, M-P

REACTIONS. All bearings 19-11-8.
(lb) - Max Horz B=942(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) except O=-120(LC 9), B=-327(LC 6), R=-230(LC 7), S=-259(LC 8), T=-195(LC 8), U=-205(LC 8), V=-203(LC 8), W=-200(LC 8), X=-257(LC 8), Q=-105(LC 7), P=-318(LC 9)
Max Grav All reactions 250 lb or less at joint(s) O, S, T, U, V, W, X, Q, P except B=482(LC 7), R=339(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-907/556, C-D=-768/519, D-E=-676/507, E-F=-583/496, F-G=-490/472, G-H=-483/484, H-I=-394/466, I-J=-313/535, J-K=-155/428, K-L=-139/431, L-M=-208/526, M-N=-216/424, N-O=-171/350
BOT CHORD B-X=-160/283, W-X=-160/283, V-W=-160/283, U-V=-160/283, T-U=-160/283, S-T=-162/281, R-S=-162/281, Q-R=-162/281, P-Q=-162/281, O-P=-162/281
WEBS J-R=-324/261, I-S=-122/298, C-X=-127/285, M-P=-118/298

NOTES- (12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; 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 120 lb uplift at joint O, 327 lb uplift at joint B, 230 lb uplift at joint R, 259 lb uplift at joint S, 195 lb uplift at joint T, 205 lb uplift at joint U, 203 lb uplift at joint V, 200 lb uplift at joint W, 257 lb uplift at joint X, 105 lb uplift at joint Q and 318 lb uplift at joint P.
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.



June 12,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128621
1110004_OFA	A10	ROOF SPECIAL	5	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:29 2017 Page 1
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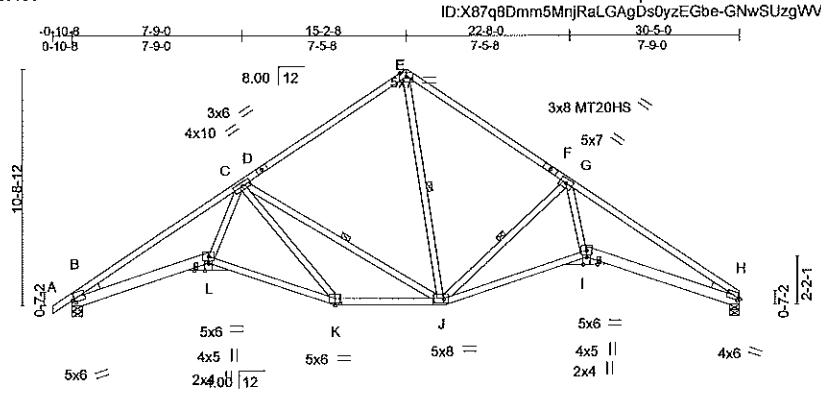

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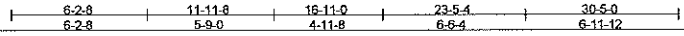


Plate Offsets (X,Y)-- [B:0-1-5,0-1-8], [H:0-1-5,0-1-0], [I:0-4-0,Edge], [J:0-5-8,0-2-8], [K:0-3-0,0-1-0], [L:0-4-0,Edge]

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	0.96	Vert(LL)	-0.18	I-J	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(TL)	-0.53	I-J	>686	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(TL)	0.35	H	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.32	I-J	>999	240	Weight: 187 lb	FT = 20%

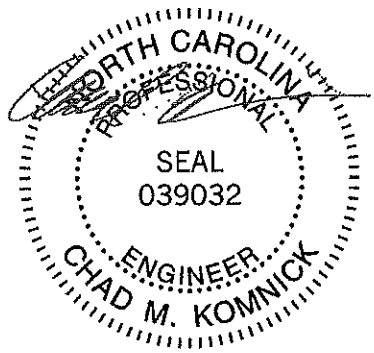
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B-L,H-I: 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt C-J, E-J, G-J

REACTIONS. (lb/size) B=1270/0-5-8, H=1216/0-5-8
Max Horz B=689(LC 7)
Max Uplift B=-906(LC 8), H=-808(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-3008/2031, C-D=-1155/1008, D-E=-1029/1053, E-F=-1182/1200, F-G=-1306/1156, G-H=-3024/2038
BOT CHORD B-L=-1794/2510, K-L=-1401/1915, J-K=-922/1419, I-J=-1337/2152, H-I=-1543/2525
WEBS C-L=-979/1518, C-K=-621/638, C-J=-674/727, E-J=-736/790, G-J=-1447/1272, G-I=-827/1561

NOTES- (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) B, H considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 906 lb uplift at joint B and 808 lb uplift at joint H.
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) 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.



June 12,2017

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128622
1110004_OFA	A11	GABLE	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:30 2017 Page 1
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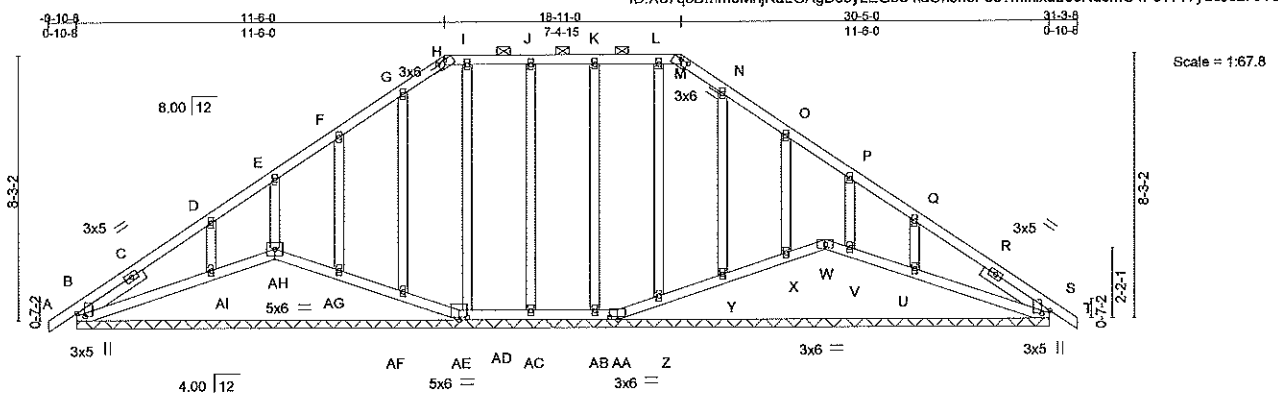


Plate Offsets (X,Y)-- [B:0-1-3,0-3-0], [H:0-3-0,0-0-2], [M:0-3-0,0-0-2], [S:0-1-3,0-3-0], [AA:0-3-0,0-1-0], [AE:0-3-0,0-1-0]

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	0.33	Vert(LL)	0.00	T	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	0.01	T	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horz(TL)	0.02	S	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 198 lb	FT = 20%

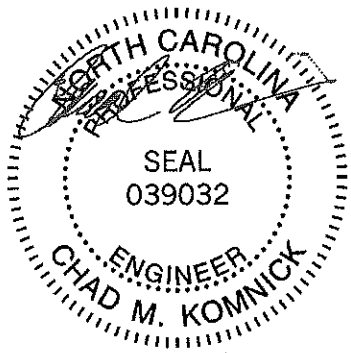
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3
SLIDER Left 2x4 SP No.2 2-5-14, Right 2x4 SP No.2 2-5-14

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

REACTIONS. All bearings 30-5-0.
(lb) - Max Horz B=-531(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) AE, AA, W, Z, Y except B=-276(LC 6), AH=-123(LC 7), S=-223(LC 9), AC=-183(LC 6), AD=-119(LC 7), AF=-101(LC 7), AG=-252(LC 8), Al=-443(LC 8), AB=-179(LC 6), X=-259(LC 9), V=-106(LC 9), U=-431(LC 9)
Max Grav All reactions 250 lb or less at joint(s) B, AH, AE, AA, W, S, AC, AD, AF, AG, AB, Z, Y, X, V except Al=304(LC 13), U=307(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-407/352, C-D=-391/366, D-E=-190/299, E-F=-137/349, F-G=-119/469, G-H=-109/509, H-I=-69/486, I-J=-69/486, J-K=-69/486, K-L=-69/486, L-M=-69/486, M-N=-109/509, N-O=-120/453, O-P=-112/294
BOT CHORD B-Al=-136/279, AH-Al=-128/277, AG-AH=-128/278, AF-AG=-128/278, AE-AF=-127/278, AD-AE=-118/260, AC-AD=-118/260, AB-AC=-118/260, AA-AB=-118/260, Z-AA=-125/278, Y-Z=-128/278, X-Y=-128/278, W-X=-127/275, V-W=-123/273, U-V=-132/279, S-U=-128/276
WEBS F-AG=-133/277, D-Al=-217/463, O-X=-133/282, Q-U=-217/451

NOTES- (15)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; 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) AE, AA, W, Z, Y except (jt=lb) B=276, AH=123, S=223, AC=183, AD=119, AF=101, AG=252, Al=443, AB=179, X=259, V=106, U=431.
12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) AH, W, AF, AG, Al, Z, Y, X, V, U.
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.



June 12,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128623
1110004_OFA	A12	Hip	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:31 2017 Page 1
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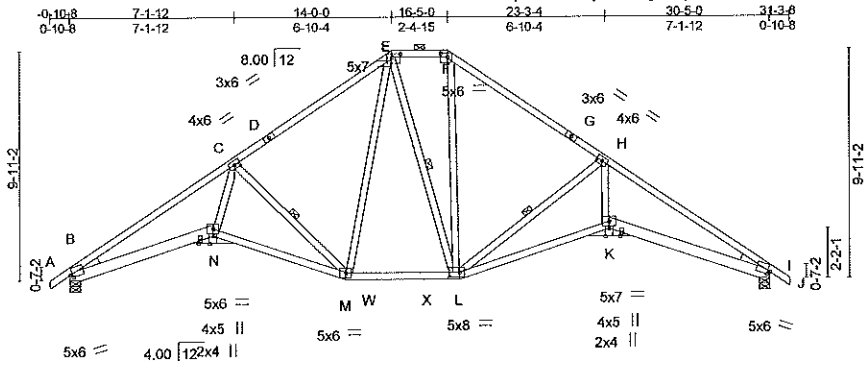

Scale = 1:94.2

6-2-8 | 11-11-8 | 16-11-0 | 23-5-4 | 30-5-0
6-2-8 | 5-9-0 | 4-11-8 | 6-6-4 | 6-11-12

Plate Offsets (X,Y)-- [B:0-1-5,0-1-8], [E:0-4-8,0-1-12], [F:0-3-12,0-2-0], [I:0-1-5,0-1-8], [K:0-4-0,Edge], [L:0-5-4,0-2-8], [N:0-4-0,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	0.86	Vert(LL)	-0.20	K-L	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(TL)	-0.56	K-L	>655	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.79	Horz(TL)	0.38	I	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.33	K-L	>999	240	Weight: 199 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (5-5-8 max.): E-F.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt C-M, E-L, H-L

REACTIONS. (lb/size) B=1269/0-5-8, I=1269/0-5-8
Max Horz B=-618(LC 6)
Max Uplift B=-896(LC 8), I=-896(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-3019/2035, C-D=-1390/1222, D-E=-1270/1264, E-F=-972/1117, F-G=-1196/1181, G-H=-1313/1139, H-I=-3036/2059
BOT CHORD B-N=-1712/2524, M-N=-1440/2088, M-W=-380/965, W-X=-380/965, L-X=-380/965, K-L=-1490/2464, I-K=-1532/2542
WEBS C-N=-921/1517, C-M=-1328/1301, E-M=-441/436, E-L=-399/420, F-L=-361/402, H-L=-1701/1377, H-K=-833/1611

NOTES- (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; 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) 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) Bearing at joint(s) B, I considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=896, I=896.
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.

June 12,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128624
1110004_OFA	A13	GABLE	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:32 2017 Page 1
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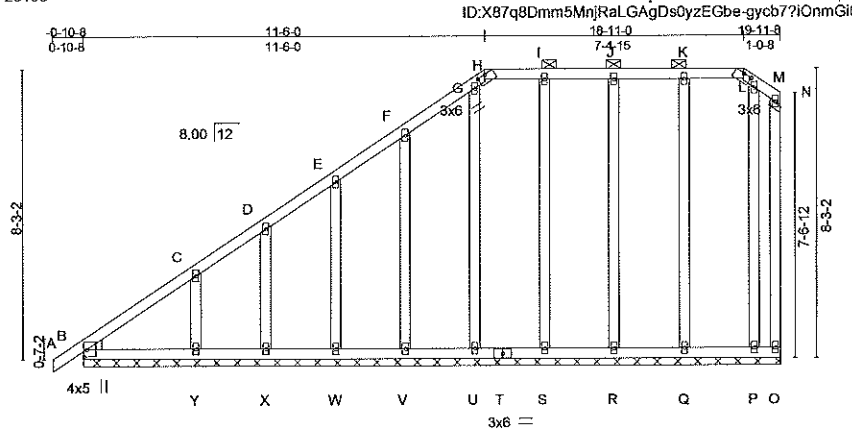


19-11-8
19-11-8

Plate Offsets (X,Y)-- [H:0-3-0,0-0-2], [L:0-3-0,0-0-2]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	-0.00	A	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	0.00	A	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(TL)	-0.00	O	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 158 lb	FT = 20%

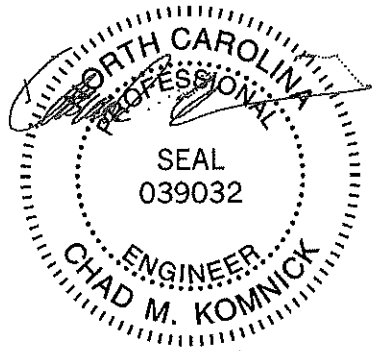
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): H-L.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 19-11-8.
(lb) - Max Horz B=692(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) O, B, P except R=-158(LC 6), S=-160(LC 7), U=-134(LC 7), V=-212(LC 8), W=-211(LC 8), X=-162(LC 8), Y=-365(LC 8), Q=-162(LC 7)
Max Grav All reactions 250 lb or less at joint(s) O, B, R, S, U, V, W, X, Y, Q, P

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-699/124, C-D=-454/89, D-E=-336/83
WEBS C-Y=-177/382

NOTES- (14)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; 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 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) O, B, P except (jt=lb) R=158, S=160, U=134, V=212, W=211, X=162, Y=365, Q=162.
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.



June 12,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128625
1110004_OFA	A14	Hip	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:33 2017 Page 1
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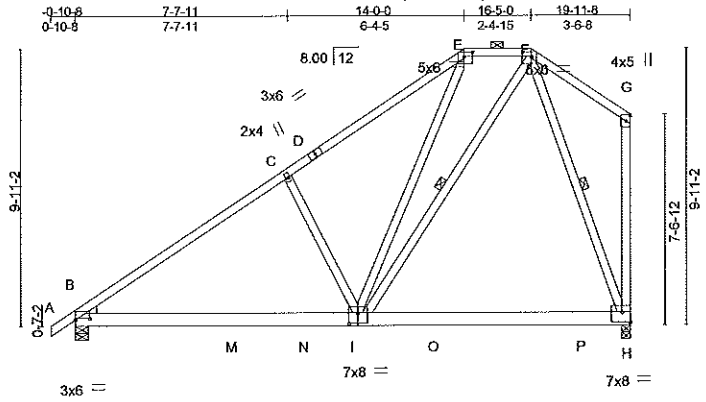

Scale = 1:77.9

10-1-15 19-11-8
10-1-15 9-9-9

Plate Offsets (X,Y)-- [B:0-6-0,0-0-9], [E:0-3-12,0-2-0], [F:0-3-12,0-2-0], [H:Edge,0-4-4], [I:0-3-12,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.11	H-I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(TL)	-0.19	H-I	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.37	Horz(TL)	-0.02	H	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.13	I-L	>999	240	Weight: 148 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): E-F.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt F-I, F-H

REACTIONS. (lb/size) B=846/0-5-8, H=791/0-3-8
Max Horz B=889(LC 7)
Max Uplift B=-616(LC 8), H=-573(LC 8)
Max Grav B=846(LC 1), H=846(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1017/752, C-D=-857/842, D-E=-754/882, E-F=-544/815, F-G=-227/485, G-H=-180/425
BOT CHORD B-M=-1056/770, M-N=-1056/770, I-N=-1056/770, I-O=-432/297, O-P=-432/297, H-P=-432/297
WEBS C-I=-387/720, E-I=-144/260, F-I=-583/599, F-H=-646/800

NOTES- (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; 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) 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=616, H=573.
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.

June 12,2017

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128626
1110004_OFA	B01	GABLE	3	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:33 2017 Page 1
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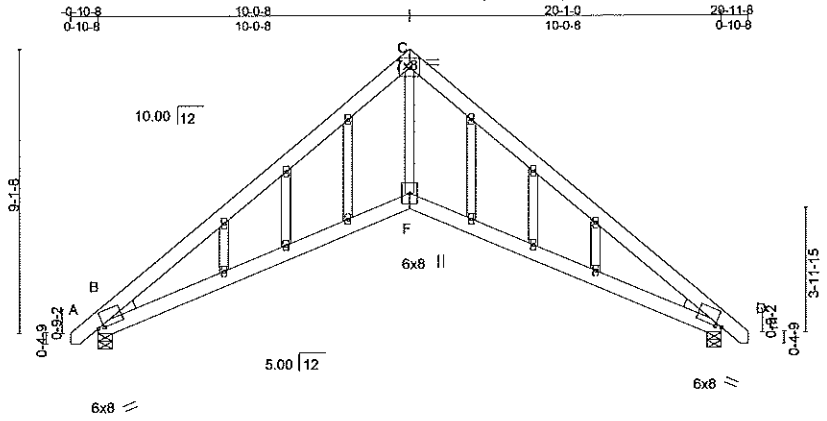


Plate Offsets (X,Y)-- [B:0-2-6,0-0-7], [D:0-2-6,0-0-7]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.07	F-X	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(TL)	-0.20	F-X	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.44	Horz(TL)	0.12	D	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.21	F-U	>999	240	Weight: 151 lb	FT = 20%

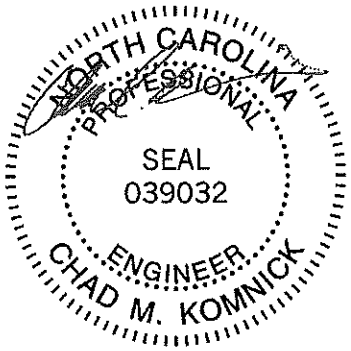
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

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

REACTIONS. (lb/size) B=848/0-5-8, D=848/0-5-8
Max Horz B=554(LC 7)
Max Uplift B=-597(LC 8), D=-597(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1471/735, C-D=-1471/826
BOT CHORD B-F=-415/1118, D-F=-404/1118
WEBS C-F=-287/1055

NOTES- (12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; 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 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) Bearing at joint(s) B, D considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=597, D=597.
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) 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.



June 12,2017

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128627
1110004_OFA	B02	SCISSORS	3	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:34 2017 Page 1
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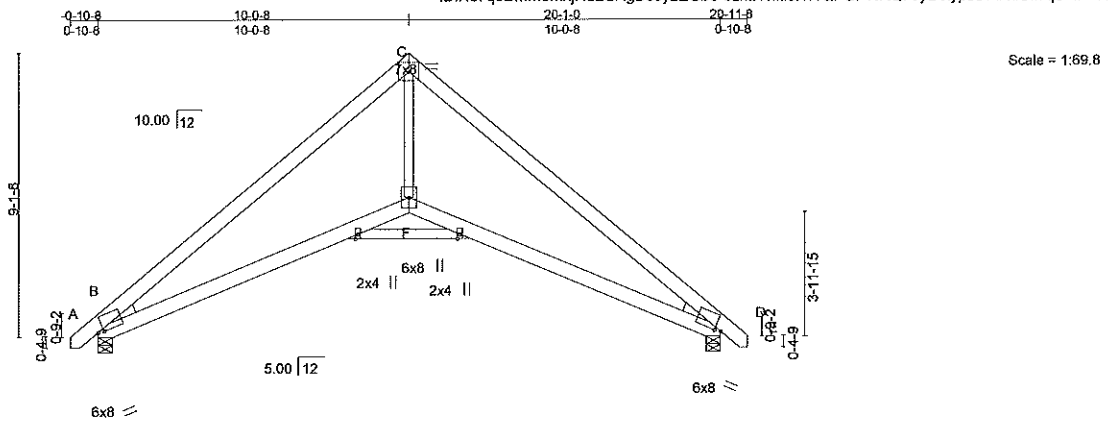


Plate Offsets (X,Y)-- [B:0-2-6,0-0-7], [D:0-2-6,0-0-7]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.07	F-N	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(TL)	-0.20	F-N	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.44	Horz(TL)	0.12	D	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.21	F-K	>999	240	Weight: 134 lb	FT = 20%

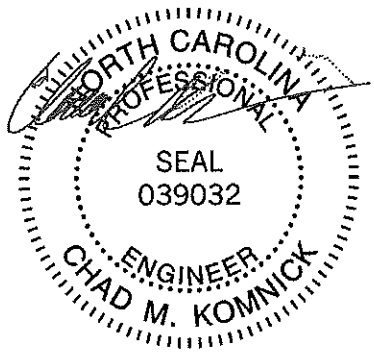
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
G-H: 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

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

REACTIONS. (lb/size) B=848/0-5-8, D=848/0-5-8
Max Horz B=554(LC 7)
Max Uplift B=-597(LC 8), D=-597(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1471/735, C-D=-1471/826
BOT CHORD B-F=-415/1118, D-F=-404/1118
WEBS C-F=-287/1055

NOTES- (9)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; 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) 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) Bearing at joint(s) B, D considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=597, D=597.
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.



June 12,2017

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128628
1110004_OFA	B03	SCISSORS	24	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:35 2017 Page 1
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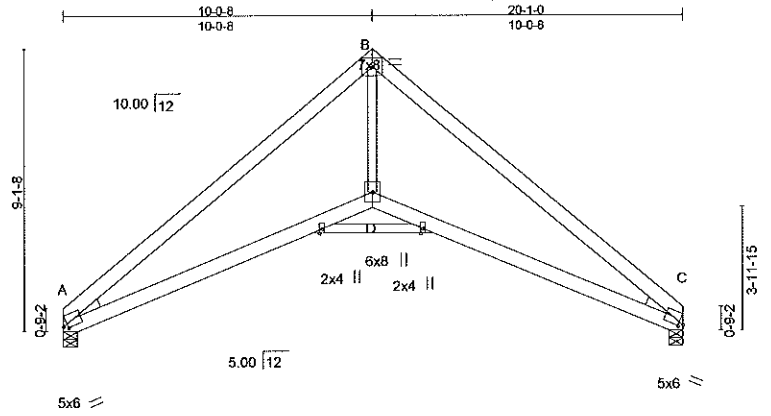


10-0-8 20-1-0
10-0-8 10-0-8

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

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	0.71	Vert(LL)	-0.07	D-L	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(TL)	-0.20	D-L	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.44	Horz(TL)	0.12	C	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.21	D-I	>999	240	Weight: 129 lb	FT = 20%

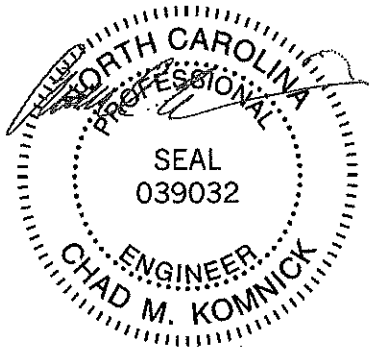
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
E-F: 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

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

REACTIONS. (lb/size) A=803/0-5-8, C=803/0-5-8
Max Horz A=-548(LC 6)
Max Uplift A=-515(LC 8), C=-515(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1477/790, B-C=-1477/865
BOT CHORD A-D=-480/1123, C-D=-468/1123
WEBS B-D=-336/1060

NOTES- (9)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; 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) 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) Bearing at joint(s) A, C considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=515, C=515.
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.



June 12,2017

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128629
1110004_OFA	B04	GABLE	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:35 2017 Page 1
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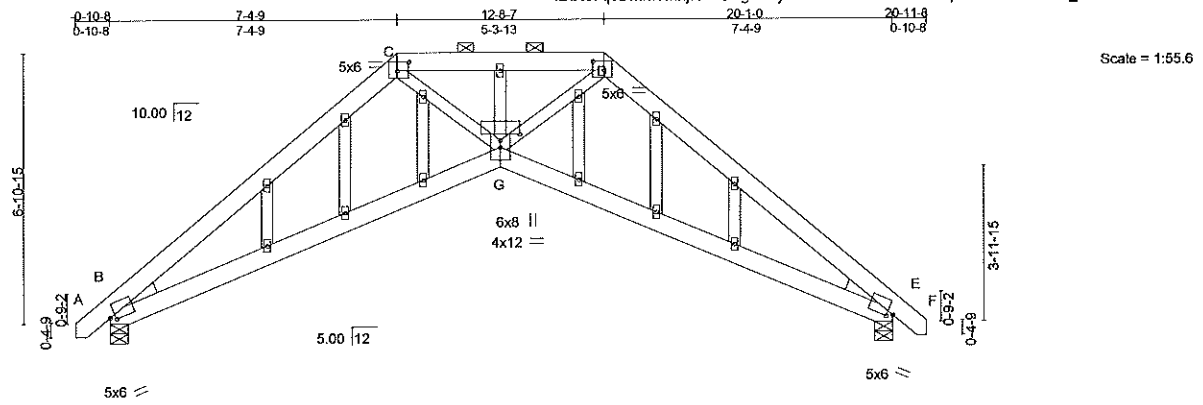


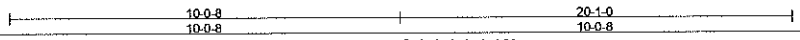


Plate Offsets (X,Y)-- [B:0-1-12,0-1-1], [C:0-3-8,0-2-12], [D:0-3-8,0-2-12], [E:0-1-12,0-1-1], [G:0-6-0,0-1-13]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.06	G-W	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(TL)	-0.19	G-W	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.33	Horz(TL)	0.12	E	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.11	G-W	>999	240	Weight: 150 lb	FT = 20%

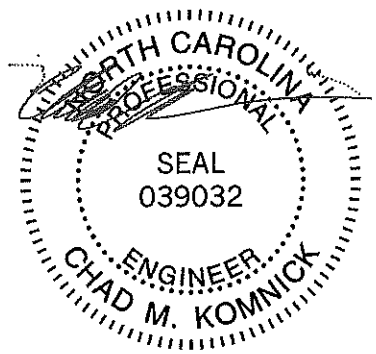
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-8-1 max.): C-D.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) B=848/0-5-8, E=848/0-5-8
Max Horz B=-413(LC 6)
Max Uplift B=-579(LC 8), E=-579(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1538/918, C-D=-1653/1060, D-E=-1538/919
BOT CHORD B-G=-931/1191, E-G=-571/1191
WEBS C-G=-189/797, D-G=-535/797

NOTES- (14)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; 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 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) Bearing at joint(s) B, E considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=579, E=579.
12) 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.
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.



June 12,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128630
1110004_OFA	B05	HIP	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:36 2017 Page 1
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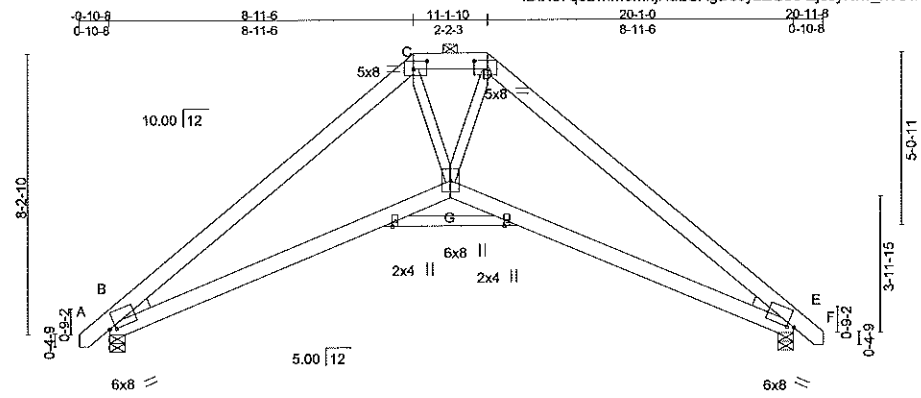


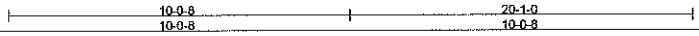


Plate Offsets (X,Y)-- [B:0-2-6,0-0-11], [C:0-4-12,0-2-12], [D:0-4-12,0-2-12], [E:0-2-6,0-0-11]

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	0.59	Vert(LL)	-0.06	G-L	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(TL)	-0.18	G-L	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.25	Horz(TL)	0.08	E	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.15	G-L	>999	240	Weight: 136 lb	FT = 20%

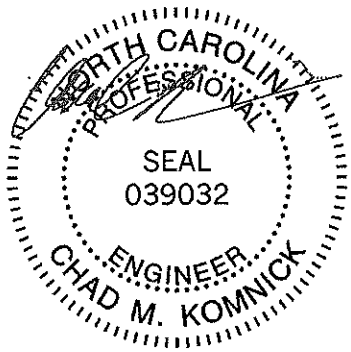
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
H-I: 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

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

REACTIONS. (lb/size) B=848/0-5-8, E=848/0-5-8
Max Horz B=-499(LC 6)
Max Uplift B=-591(LC 8), E=-591(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1482/785, C-D=-1158/905, D-E=-1482/785
BOT CHORD B-G=-681/1130, E-G=-380/1130
WEBS C-G=-225/610, D-G=-611/701

NOTES- (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; 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) 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) Bearing at joint(s) B, E considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=591, E=591.
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.



June 12,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128631
1110004_OFA	C01	GABLE	2	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:37 2017 Page 1
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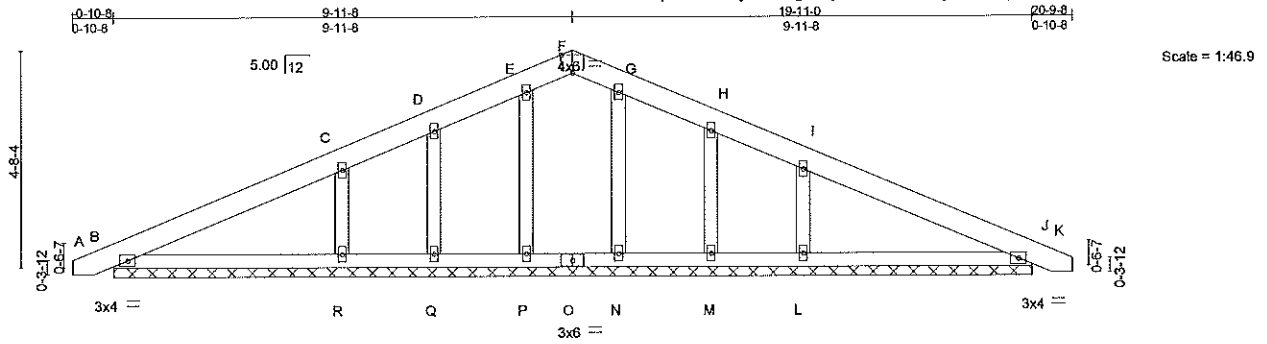


19-11-0
19-11-0

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	0.17	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	0.14	Horz(TL)	0.00	J	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 109 lb	FT = 20%

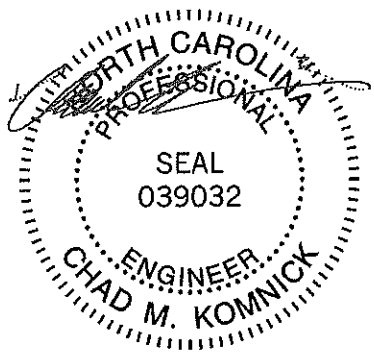
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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=123(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) Q, M except B=-172(LC 8), J=-202(LC 9), P=-101(LC 8), R=-389(LC 8), N=-100(LC 9), L=-387(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.
TOP CHORD D-E=-19/274, E-F=-11/331, F-G=-11/331, G-H=-19/275
WEBS C-R=-299/486, I-L=-299/486

NOTES- (12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; 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) Q, M except (jt=lb) B=172, J=202, P=101, R=389, N=100, L=387.
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.



June 12,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128632
1110004_OFA	C02	COMMON	15	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:38 2017 Page 1
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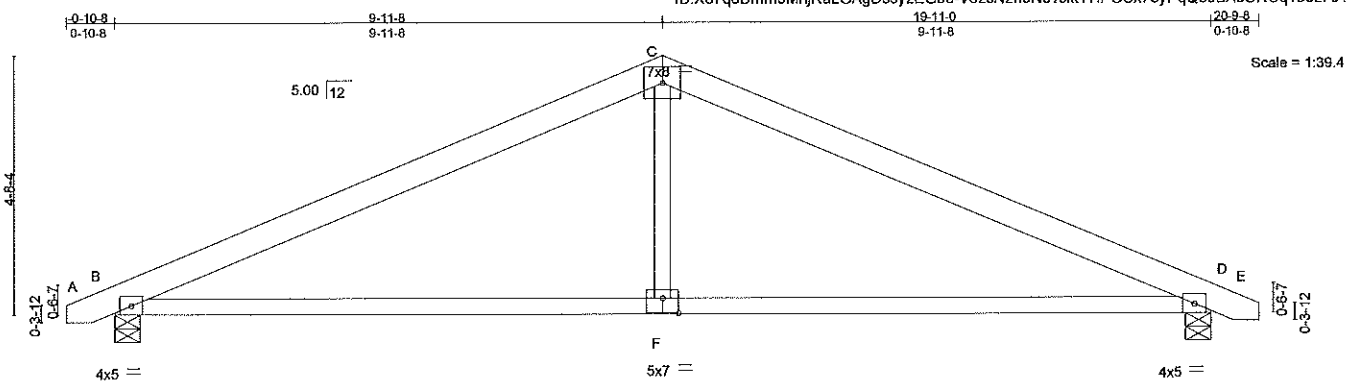


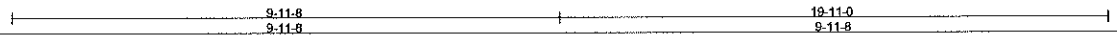


Plate Offsets (X,Y)-- [F:0-3-8,0-3-4]

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	0.58	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)	0.20	F-I	>999	240	Weight: 91 lb	FT = 20%

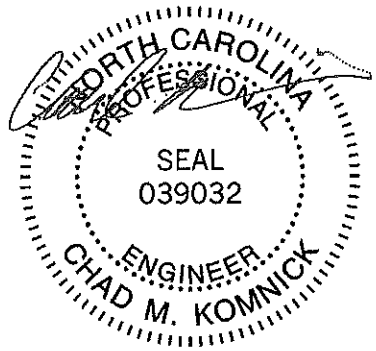
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. (lb/size) B=836/0-5-8, D=836/0-5-8
Max Horz B=-130(LC 9)
Max Uplift B=-622(LC 8), D=-622(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1227/1093, C-D=-1227/1093
BOT CHORD B-F=-776/1072, D-F=-776/1072
WEBS C-F=0/403

NOTES- (8)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; 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) 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=622, D=622.
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.



June 12,2017

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128633
1110004_OFA	C03	GABLE	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:38 2017 Page 1

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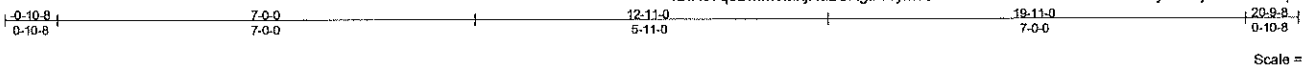

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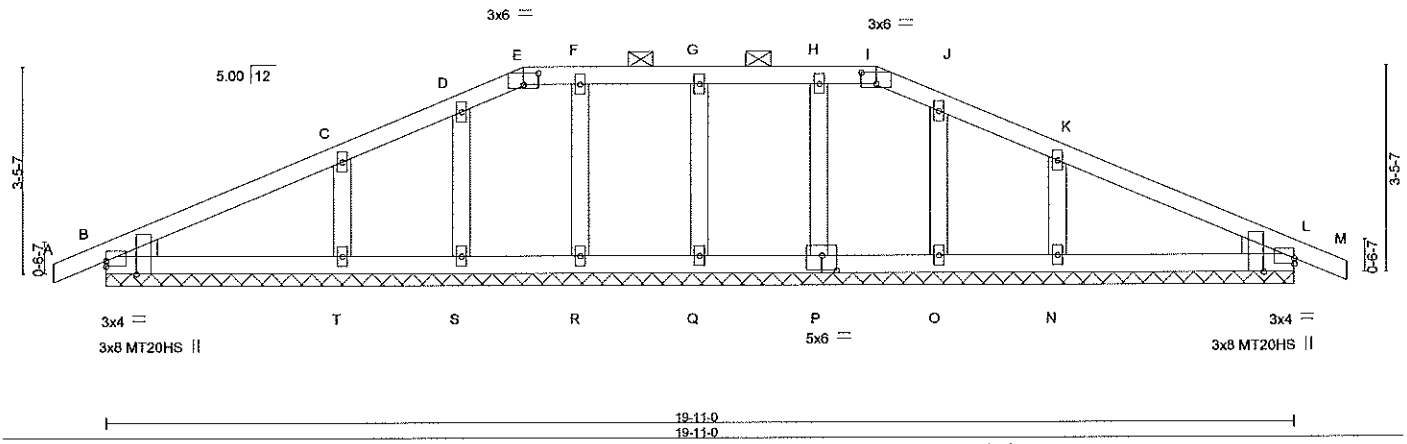


19-11-0
19-11-0

Plate Offsets (X,Y)-- [B:0-2-11,Edge], [B:0-0-0,0-1-1], [E:0-3-0,0-2-4], [I:0-3-0,0-2-4], [L:0-2-11,Edge], [L:Edge,0-1-1], [P:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	0.00	M	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	0.01	M	n/r	120	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(TL)	0.00	L	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 91 lb	FT = 20%

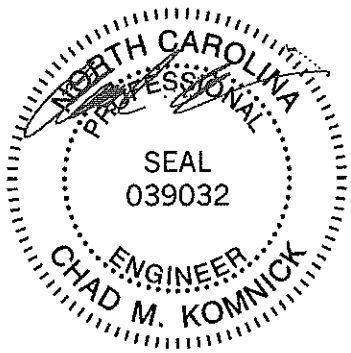
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.2, Right: 2x4 SP No.2

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

REACTIONS. All bearings 19-11-0.
(lb) - Max Horz B=-93(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) R, S, P, O except B=-180(LC 8), Q=-137(LC 7), T=-311(LC 8), L=-196(LC 9), N=-310(LC 9)
Max Grav All reactions 250 lb or less at joint(s) B, Q, R, S, P, O, L except T=310(LC 13), N=310(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-T=-220/381, K-N=-220/381

NOTES- (15)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; 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 requires continuous bottom chord bearing.
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) R, S, P, O except (jt=lb) B=180, Q=137, T=311, L=196, N=310.
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.



June 12,2017

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TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/
1110004_OFA	CP01	GABLE	3	1	I30128634
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:39 2017 Page 1
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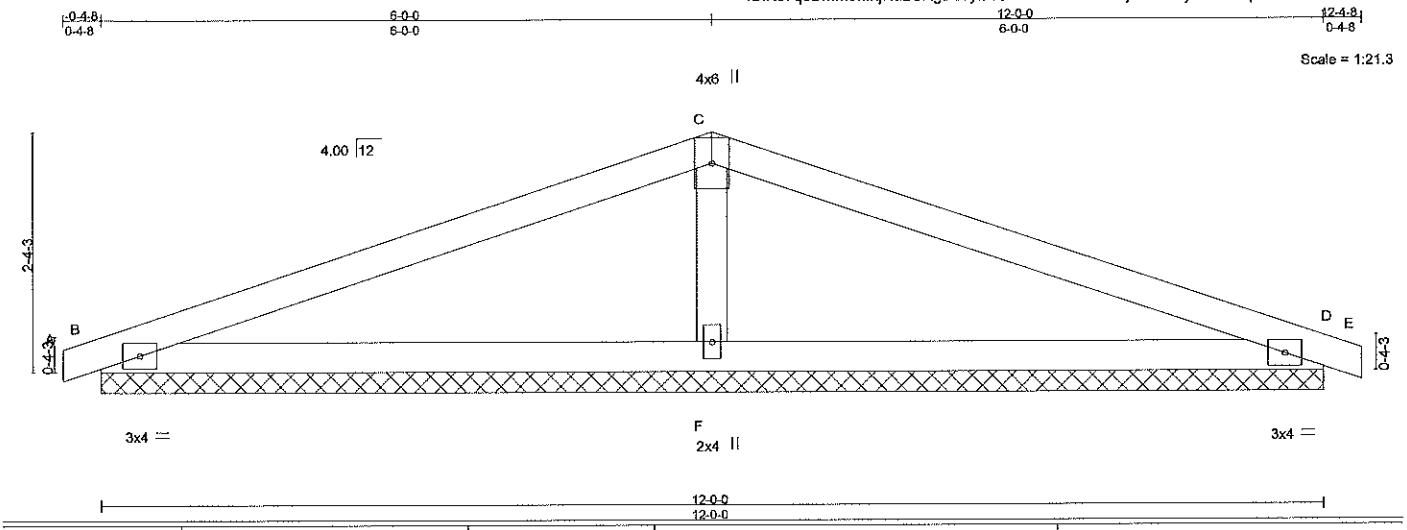


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	0.01	E	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(TL)	0.03	E	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(TL)	0.00	D	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 41 lb	FT = 20%

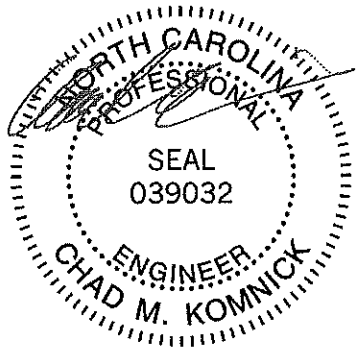
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. (lb/size) B=228/12-0-0, D=228/12-0-0, F=549/12-0-0
Max Horz B=-62(LC 7)
Max Uplift B=-217(LC 8), D=-226(LC 7), F=-315(LC 8)
Max Grav B=235(LC 13), D=235(LC 14), F=549(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-F=-366/531

NOTES- (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; 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) except (jt=lb) B=217, D=226, F=315.
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.



June 12,2017

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TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128635
1110004_OFA	CP02	Common	9	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:40 2017 Page 1
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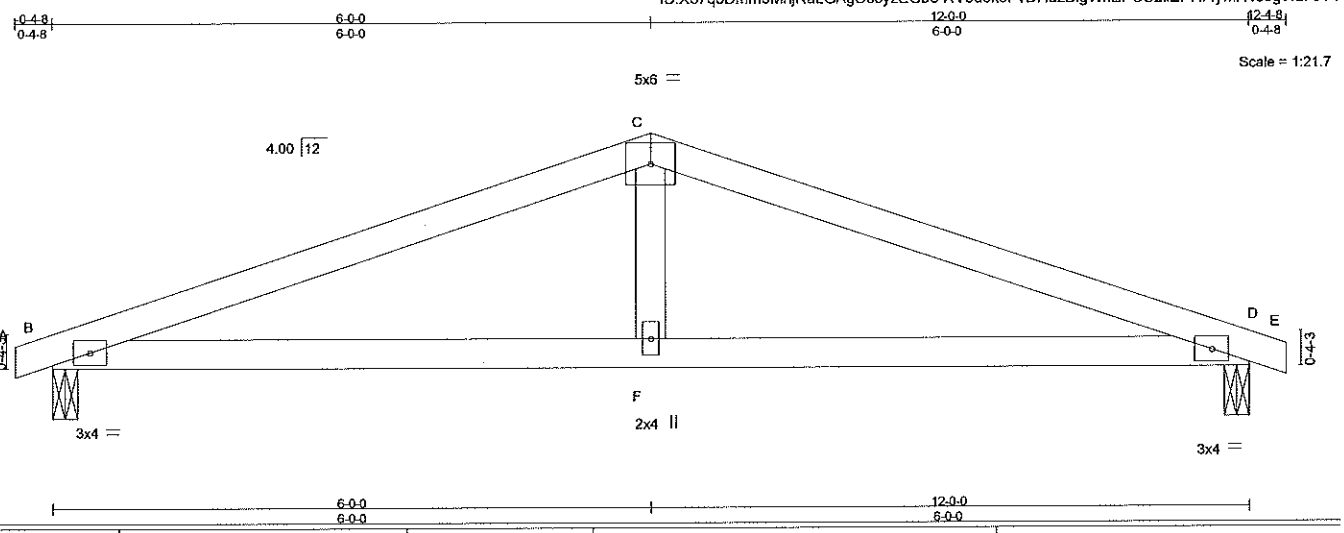


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.02	F-I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(TL)	-0.07	F-I	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(TL)	-0.02	D	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.12	F-L	>999	240	Weight: 41 lb	FT = 20%

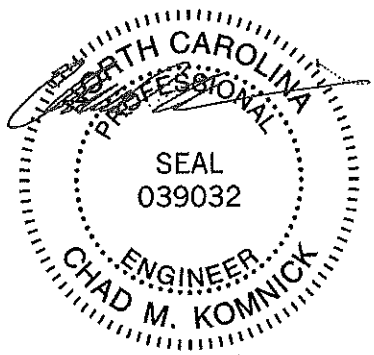
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. (lb/size) B=502/0-3-0, D=503/0-3-0
Max Horz B=-65(LC 7)
Max Uplift B=-665(LC 8), D=-665(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-786/1867, C-D=-786/1867
BOT CHORD B-F=-1638/701, D-F=-1638/701
WEBS C-F=-625/235

NOTES- (8)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; 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; 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=665, D=665.
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.



June 12,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128636
1110004_OFA	J01	GABLE	2	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:40 2017 Page 1
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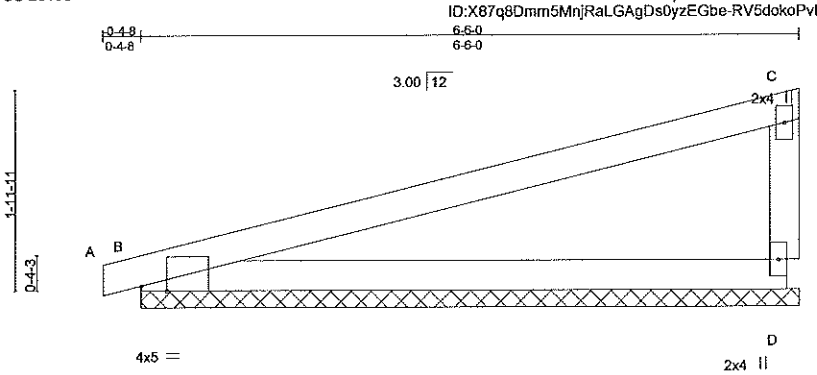


Scale = 1:21.4

Plate Offsets (X,Y)-- [B:0-3-1,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	0.88	Vert(LL)	0.00	A	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(TL)	0.02	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: 22 lb	FT = 20%

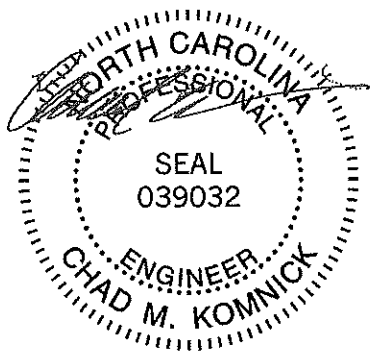
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS. (lb/size) D=254/6-6-0, B=277/6-6-0
Max Horz B=152(LC 7)
Max Uplift D=-208(LC 8), B=-234(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-D=-190/398

NOTES- (10)
1) Wind: ASCE 7-05; 130mph; 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) except (jt=lb) D=208, B=234.
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.



June 12,2017

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128637
1110004_OFA	J02	Monopitch	30	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:41 2017 Page 1
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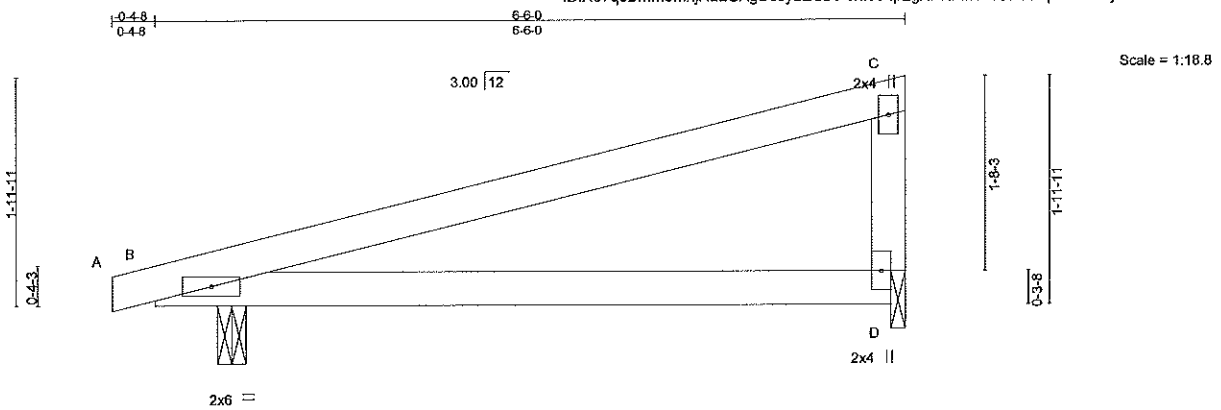


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.04	D-I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(TL)	-0.11	D-I	>665	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.01	B	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.23	D-I	>336	240	Weight: 22 lb	FT = 20%

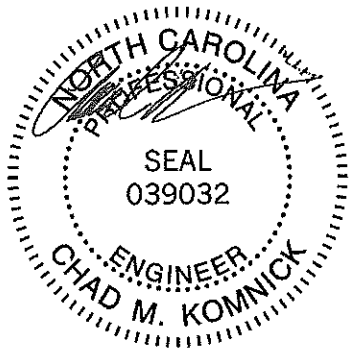
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS. (lb/size) B=319/0-3-0, D=212/0-1-8
Max Horz B=149(LC 6)
Max Uplift B=-432(LC 6), D=-310(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-D=-149/326

NOTES- (9)
1) Wind: ASCE 7-05; 130mph; 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; 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=432, D=310.
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.



June 12,2017

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128638
1110004_OFA	J03	Monopitch Structural Gable	3	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:41 2017 Page 1
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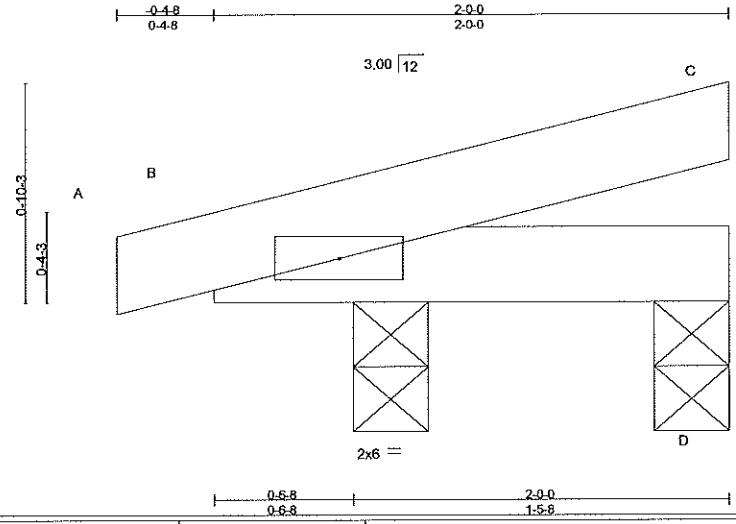


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	-0.00	I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	-0.00	I	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	B	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.00	I	>999	240	Weight: 7 lb	FT = 20%

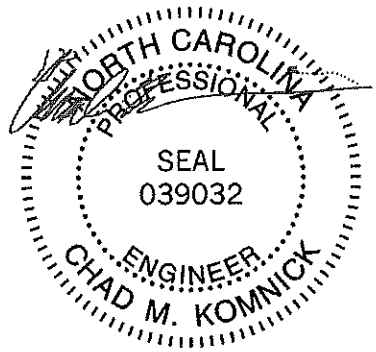
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (lb/size) D=40/0-3-8, B=142/0-3-8
Max Horz D=52(LC 6)
Max Uplift D=-47(LC 9), B=-132(LC 6)

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

NOTES- (9)
1) Wind: ASCE 7-05; 130mph; 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; cantilever left exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Gable studs spaced at 2-0-0 oc.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) B=132.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
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.



June 12,2017

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128639
1110004_OFA	J04	Monopitch Girder	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:41 2017 Page 1
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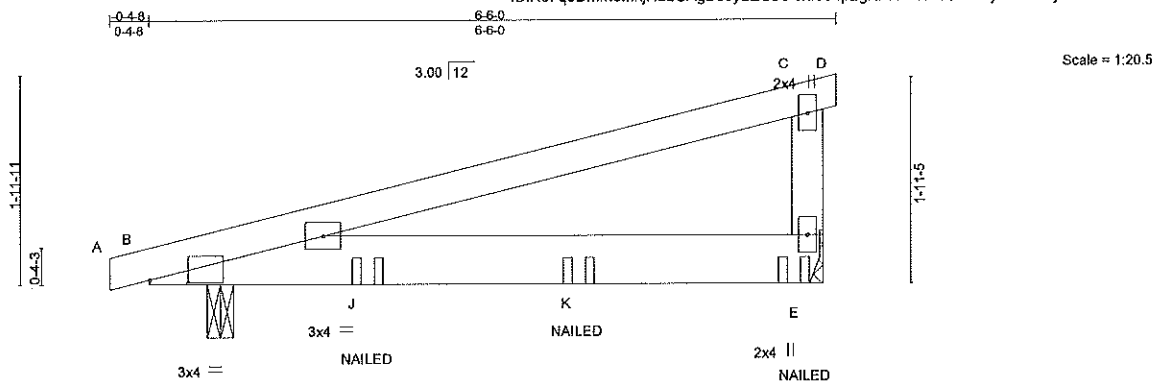


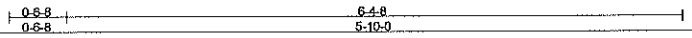


Plate Offsets (X,Y)-- [B:0-4-5,0-0-5]

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	0.45	Vert(LL)	-0.04	E-I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(TL)	-0.10	E-I	>757	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(TL)	-0.00	E	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.14	E-I	>547	240	Weight: 27 lb	FT = 20%

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

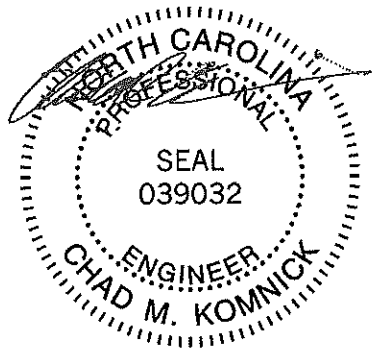
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) E=487/Mechanical, B=477/0-3-0
Max Horz B=153(LC 4)
Max Uplift E=-713(LC 4), B=-645(LC 4)

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

NOTES- (10)
1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left exposed ; end vertical left exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for 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) E=713, B=645.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
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-C=-60, C-D=-20, B-E=-20
Concentrated Loads (lb)
Vert: E=-138(F) J=-155(F) K=-144(F)



June 12,2017

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128640
1110004_OFA	J05	MONOPITCH	3	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:42 2017 Page 1
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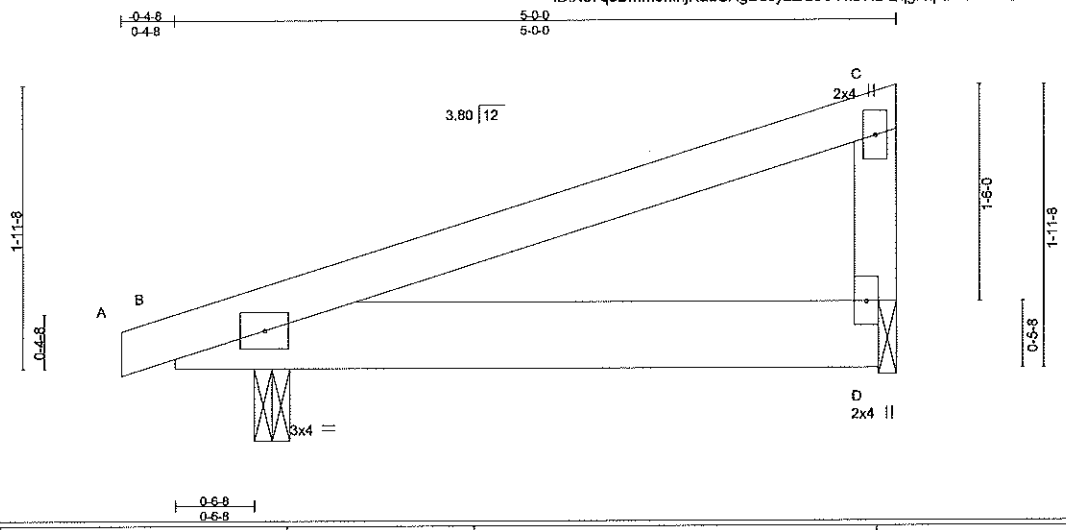


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.00	D-H	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(TL)	-0.01	D-H	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	D	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.03	D-H	>999	240	Weight: 22 lb	FT = 20%

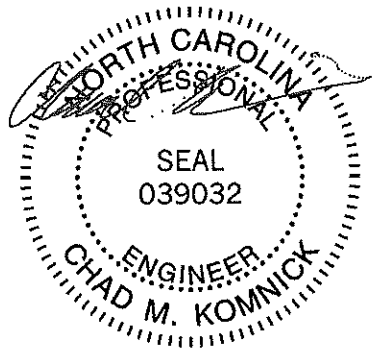
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. (lb/size) B=252/0-3-0, D=159/0-1-8
Max Horz B=148(LC 6)
Max Uplift B=-335(LC 6), D=-241(LC 6)

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

NOTES- (9)
1) Wind: ASCE 7-05; 130mph; 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; 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=335, D=241.
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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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128641
1110004_OFA	J06	HALF HIP	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:42 2017 Page 1
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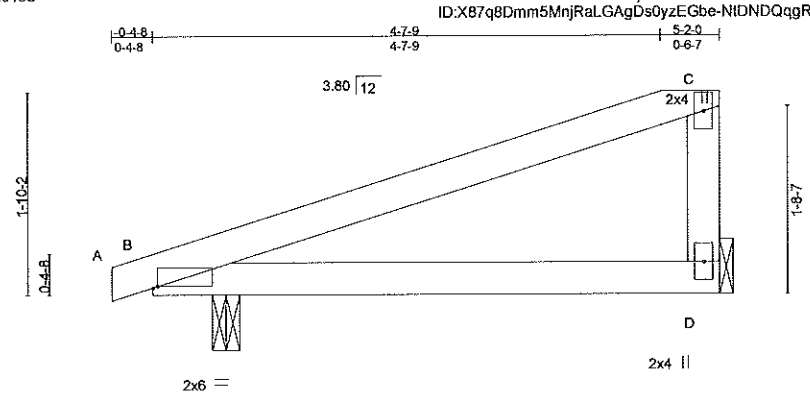

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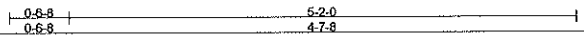


Plate Offsets (X,Y)-- [B:0-0-7,Edge]

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	0.40	Vert(LL)	-0.01	D-H	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(TL)	-0.03	D-H	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	B	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.06	D-H	>940	240	Weight: 18 lb	FT = 20%

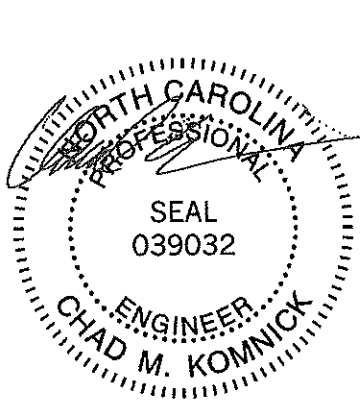
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. (lb/size) D=150/Mechanical, B=275/0-3-0
Max Horz B=153(LC 6)
Max Uplift D=-227(LC 6), B=-368(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-D=-110/252

NOTES- (8)
1) Wind: ASCE 7-05; 130mph; 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; 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) 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) D=227, B=368.
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.



June 12,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128642
1110004_OFA	J07	HALF HIP	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:43 2017 Page 1
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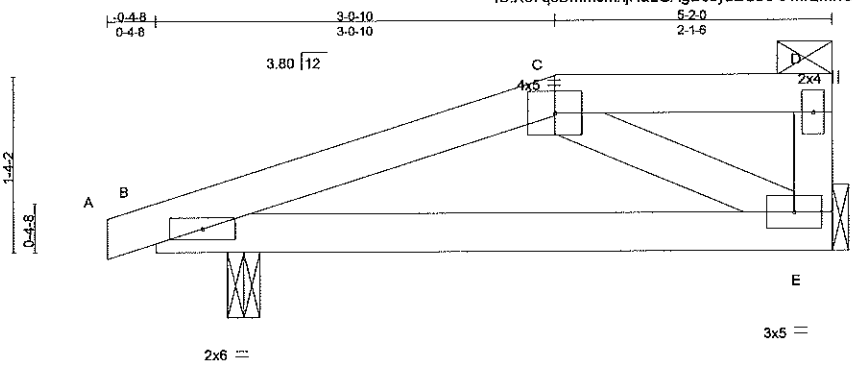

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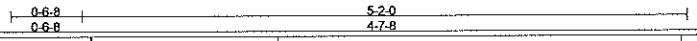


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.01	E-I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(TL)	-0.03	E-I	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(TL)	-0.00	E	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.05	E-I	>999	240	Weight: 20 lb	FT = 20%

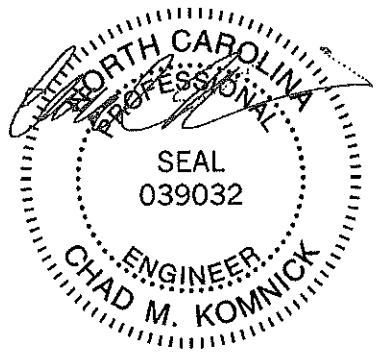
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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) B=261/0-3-0, E=164/Mechanical
Max Horz B=99(LC 6)
Max Uplift B=-363(LC 6), E=-232(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-170/286
BOT CHORD B-E=-316/134
WEBS C-E=-152/358

NOTES- (10)
1) Wind: ASCE 7-05; 130mph; 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; 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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=363, E=232.
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.



June 12,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128643
1110004_OFA	J08	HALF HIP GIRDER	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:43 2017 Page 1
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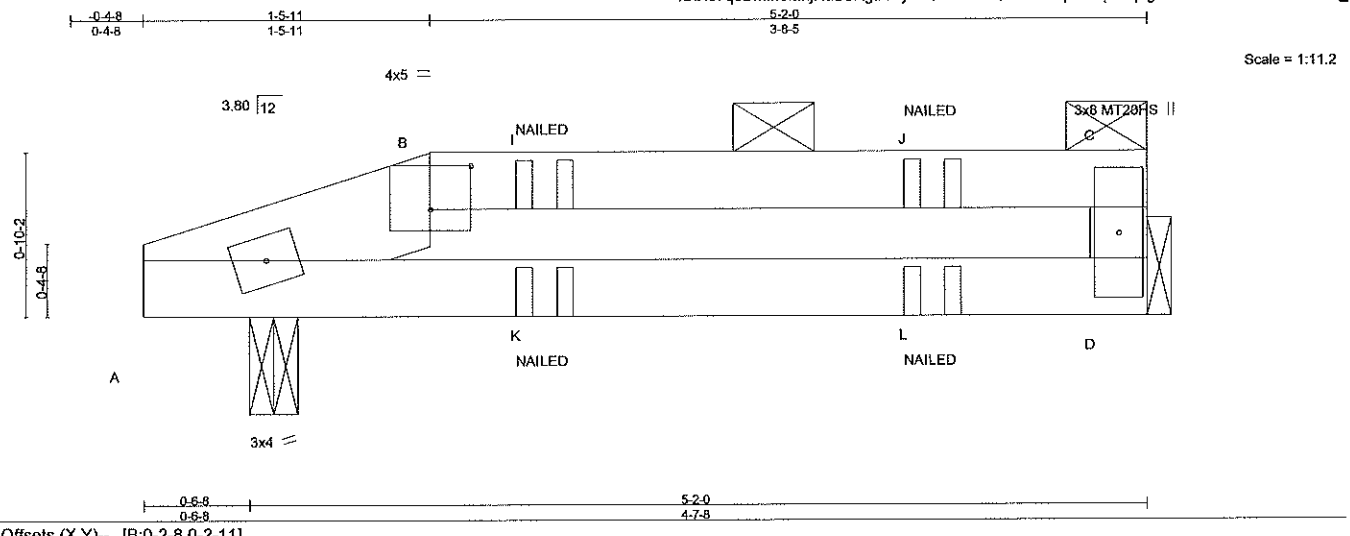


Plate Offsets (X,Y)-- [B:0-2-8,0-2-11]

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	0.24	Vert(LL)	-0.00	D-F	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	-0.01	D-F	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(TL)	-0.00	D	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.01	D-F	>999	240	Weight: 17 lb	FT = 20%

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

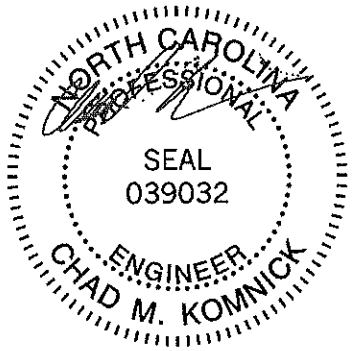
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins: B-C.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) D=175/Mechanical, A=190/0-3-0
Max Horz A=31(LC 4)
Max Uplift D=-245(LC 4), A=-230(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-244/327, B-I=-227/326, I-J=-227/326, C-J=-227/326
BOT CHORD A-K=-326/227, K-L=-326/227, D-L=-326/227

NOTES- (13)
1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left exposed ; end vertical left exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) D=245, A=230.
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) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
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
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (pif)
Vert: B-G=-60, B-C=-60, A-D=-20
Concentrated Loads (lb)
Vert: K=-2(B) L=-2(B)



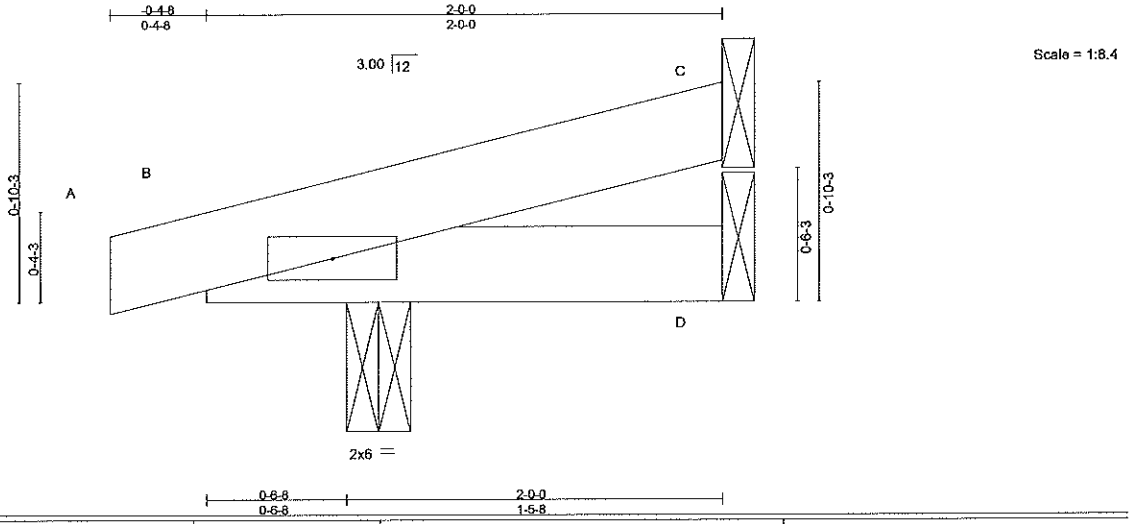
June 12,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128644
1110004_OFA	J09	Jack-Open	2	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:44 2017 Page 1
ID:X87q8Dmm5MnjRaLGAgDs0yzEGbe-KGL7e6rwySn?So0RIXJLMKCZsrusbvTMm8HMolz70Xz



LOADING (psf)		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)	-0.00	E	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	-0.00	I	>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	I	>999	240	Weight: 7 lb	FT = 20%

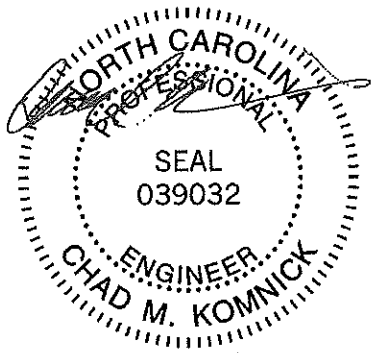
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (lb/size) C=28/Mechanical, D=13/Mechanical, B=141/0-3-0
Max Horz B=55(LC 6)
Max Uplift C=-40(LC 6), D=-23(LC 9), B=-198(LC 6)
Max Grav C=28(LC 1), D=21(LC 3), B=141(LC 1)

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

NOTES- (8)
1) Wind: ASCE 7-05; 130mph; 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; 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) 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 except (jt=lb) B=198.
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.



June 12,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128645
1110004_OFA	J10	GABLE	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:44 2017 Page 1
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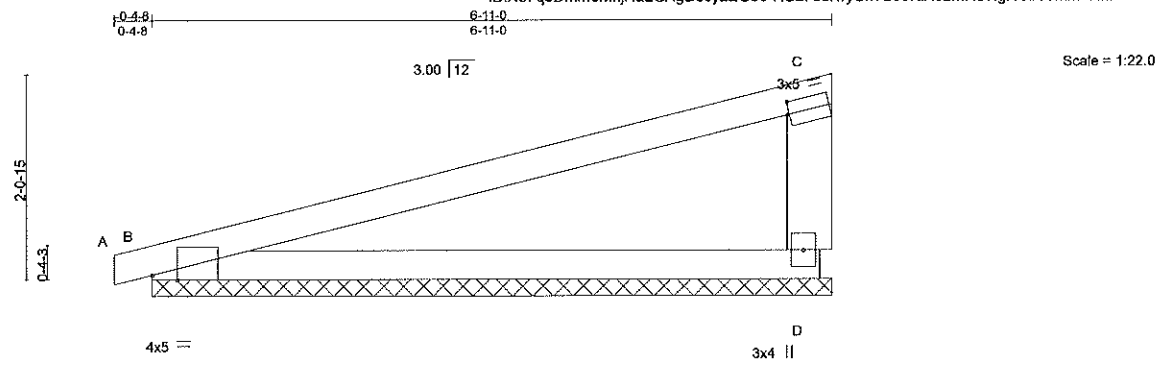

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Plate Offsets (X,Y)-- [B:0-3-1,Edge], [C:0-0-5,0-1-8]

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	0.82	Vert(LL)	0.01	A	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(TL)	0.02	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: 25 lb	FT = 20%

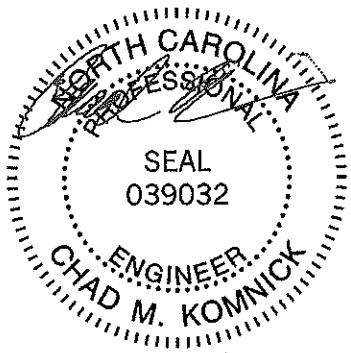
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2

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

REACTIONS. (lb/size) D=267/6-11-0, B=291/6-11-0
Max Horz B=155(LC 6)
Max Uplift D=-228(LC 6), B=-233(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-D=-178/363

NOTES- (10)
1) Wind: ASCE 7-05; 130mph; 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 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) except (jt=lb) D=228, B=233.
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.



June 12,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128646
1110004_OFA	J11	Monopitch	10	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:45 2017 Page 1
ID:X87q8Dmm5MnjRaLGAgDs0yzEGbe-oSuWrSsYjlvs4yadJEqavXiamF5MKMjW_o1vKkz70Xy

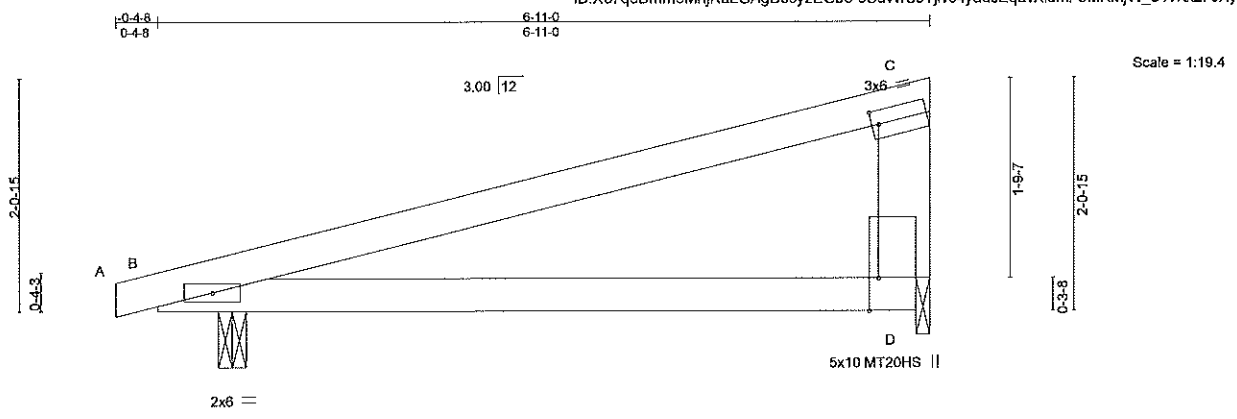


Plate Offsets (X,Y)-- [C:0-0-11,0-1-8], [D:0-3-8,Edge]

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	0.67	Vert(LL)	-0.03	D-I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(TL)	-0.08	D-I	>998	240	MT20HS	187/143
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)	0.15	D-I	>522	240	Weight: 25 lb	FT = 20%

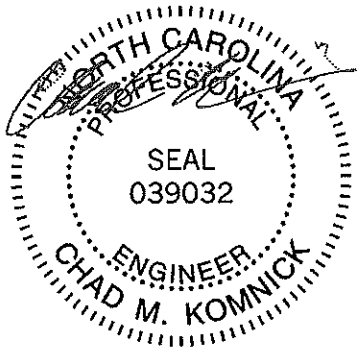
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2

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

REACTIONS. (lb/size) B=326/0-3-0, D=231/0-1-8
Max Horz B=157(LC 6)
Max Uplift B=-441(LC 6), D=-337(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-178/314, C-D=-152/302
BOT CHORD B-D=-400/136

NOTES- (10)
1) Wind: ASCE 7-05; 130mph; 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; 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) All plates are MT20 plates unless otherwise indicated.
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) 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.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) D.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=441, D=337.
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) 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.



June 12,2017

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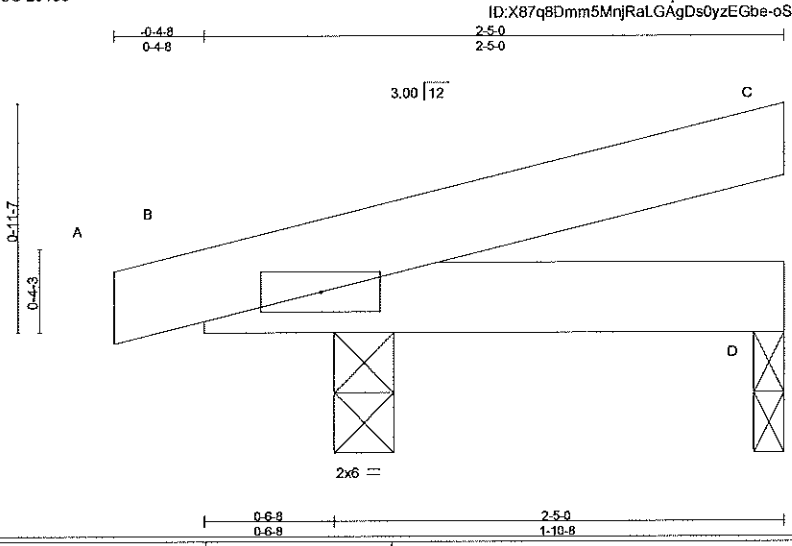
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128647
1110004_OFA	J12	Monopitch	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:45 2017 Page 1
ID:X87q8Dmm5MnjRaLGAgDs0yzEGbe-oSuWrSsYjlvs4yadJEqavXlhRF9jKMjW_o1vKkz70Xy



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.00	I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(TL)	-0.00	D-I	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	B	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.01	D-I	>999	240	Weight: 8 lb	FT = 20%

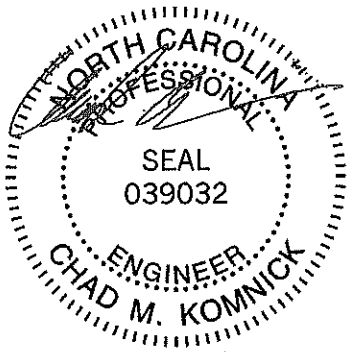
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) D=57/0-1-8, B=158/0-3-0
Max Horz B=59(LC 6)
Max Uplift D=-74(LC 6), B=-213(LC 6)

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

NOTES- (8)
1) Wind: ASCE 7-05; 130mph; 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; 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) Provide mechanical connection (by others) of truss to bearing plate at joint(s) D.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) B=213.
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.



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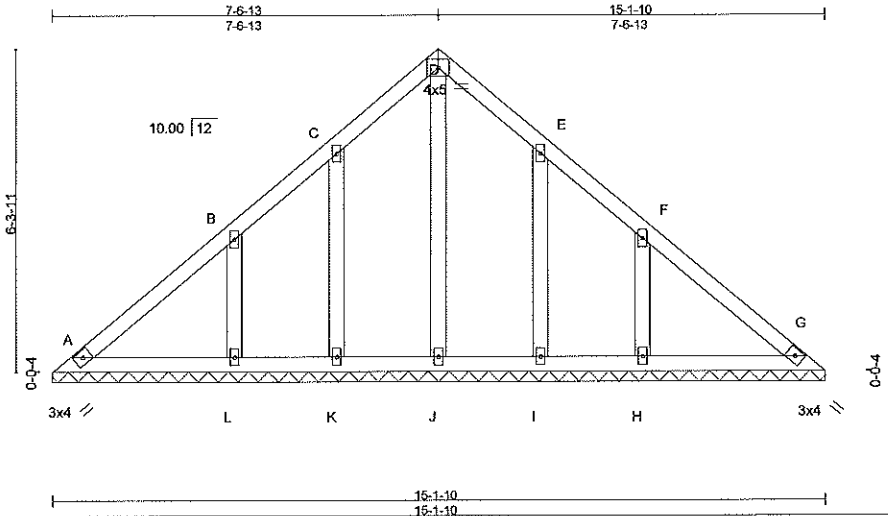
Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128648
1110004_OFA	V01	GABLE	2	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:46 2017 Page 1
ID:X87q8Dmm5MnjRaLGAgDs0yzEGbe-GfSu3ntAU31jh69ptxLpSIlt9fYX3npfDSmSsAz70Xx



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(TL)	0.01	G	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 78 lb	FT = 20%

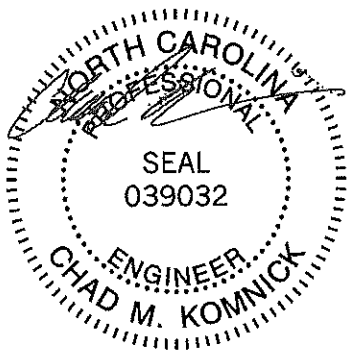
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 15-1-10.
(lb) - Max Horz A=-391(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) A, G except K=-199(LC 8), L=-399(LC 8), I=-197(LC 9), H=-399(LC 9)
Max Grav All reactions 250 lb or less at joint(s) A, G, J, K, I except L=258(LC 1), H=258(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-323/225, C-D=-65/282, D-E=-65/280
BOT CHORD A-L=-82/254, K-L=-82/254, J-K=-82/254, I-J=-82/254, H-I=-82/254, G-H=-82/254
WEBS B-L=-185/411, F-H=-185/412

NOTES- (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; 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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
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, G except (jt=lb) K=199, L=399, I=197, H=399.
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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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Topsail/ I30128649
1110004_OFA	V02	GABLE	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:46 2017 Page 1
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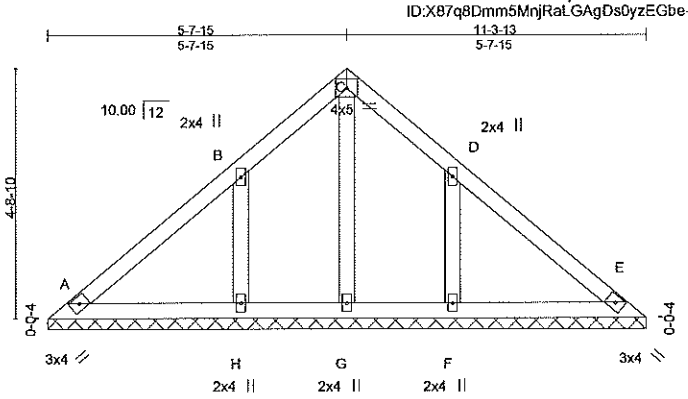


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(TL)	0.00	E	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 51 lb	FT = 20%

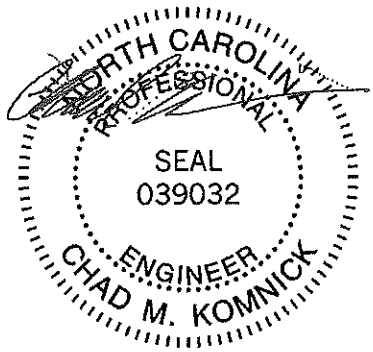
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 11-3-13.
(lb) - Max Horz A=-287(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) A, E except H=-419(LC 8), F=-418(LC 9)
Max Grav All reactions 250 lb or less at joint(s) A, E, G except H=275(LC 1), F=275(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-H=-197/431, D-F=-197/431

NOTES- (9)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; 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) 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) 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) A, E except (jt=lb) H=419, F=418.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
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/Topsail/
1110004_OFA	V03	GABLE	1	1	I30128650 Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Mon Jun 12 13:03:47 2017 Page 1
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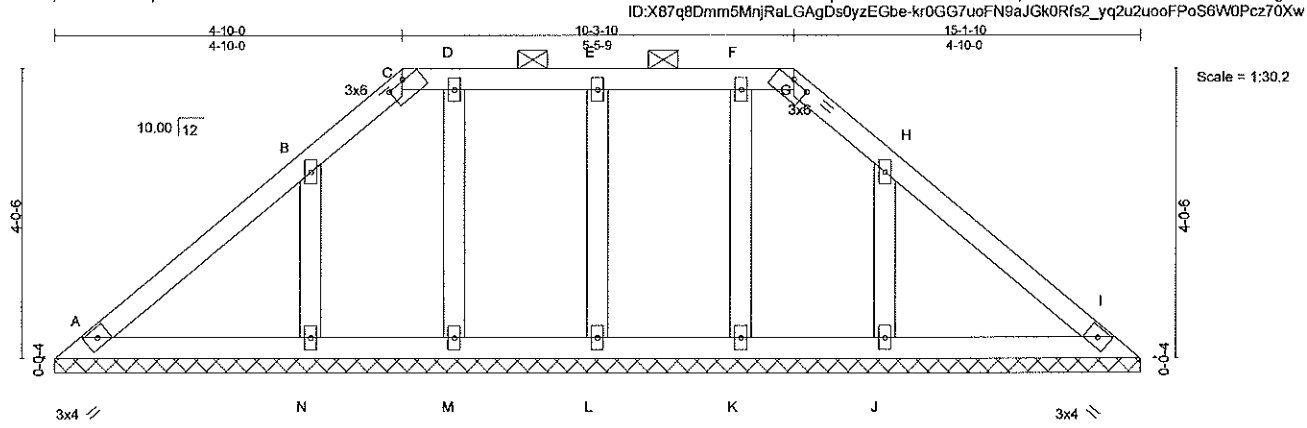


Plate Offsets (X,Y)-- [C:0-3-0,0-0-4], [G:0-3-0,0-0-4]

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	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(TL)	0.01	I	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 70 lb	FT = 20%

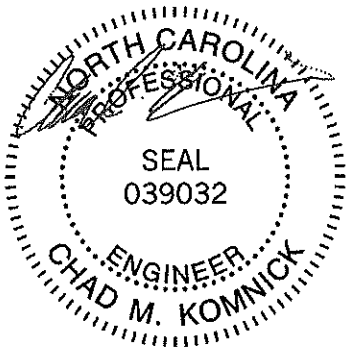
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 15-1-10.
(lb) - Max Horz A=-245(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) A except L=-187(LC 6), M=-111(LC 7), N=-377(LC 8), K=-120(LC 7), J=-372(LC 9)
Max Grav All reactions 250 lb or less at joint(s) A, I, L, M, K except N=259(LC 1), J=259(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-N=-186/389, H-J=-186/384

NOTES- (12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; 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) 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 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
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 except (jt=lb) L=187 , M=111, N=377, K=120, J=372.
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.



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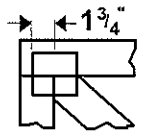
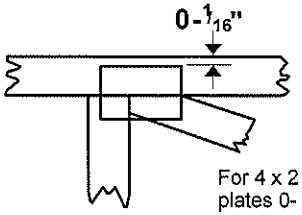
Symbols

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.

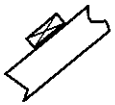
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

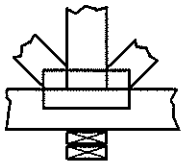
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

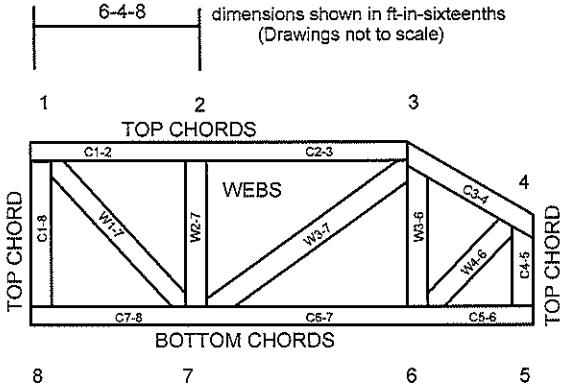


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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.