ENGINEERING BY TRENCO
A MiTek Affiliate

Trenco
818 Soundside Rd
Edenton, NC 27932

RE: 807186_Master - H&H-NC/Redbud/

Site Information:
Project Customer: H and H Project Name: 807186
Lot/Block: C Subdivision: ALL
Model:
Address:
City: Fayetteville State: NC

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

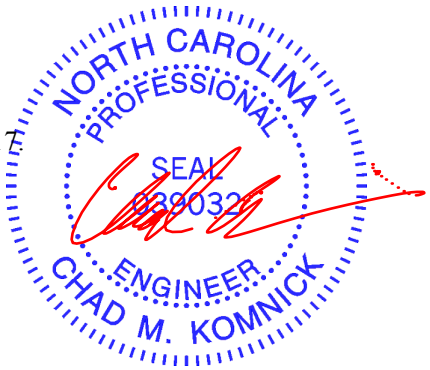
Design Code: IRC2009/TPI2007
Design Program: MiTek 20/20 7.6
Wind Code: ASCE 7-05 Wind Speed: 130 mph
Design Method: MWFRS(low-rise)/C-C hybrid Wind ASCE 7-05
Roof Load: 40.0 psf
Floor Load: N/A psf

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

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I29310936	A01	3/20/17	35	I29310970	C01	3/20/17
2	I29310937	A02	3/20/17	36	I29310971	C02	3/20/17
3	I29310938	A03	3/20/17	37	I29310972	CP01	3/20/17
4	I29310939	A04	3/20/17	38	I29310973	CP02	3/20/17
5	I29310940	A05	3/20/17	39	I29310974	CP03	3/20/17
6	I29310941	A05A	3/20/17	40	I29310975	D01	3/20/17
7	I29310942	A06	3/20/17	41	I29310976	D02	3/20/17
8	I29310943	A07	3/20/17	42	I29310977	E01	3/20/17
9	I29310944	A08	3/20/17	43	I29310978	E02	3/20/17
10	I29310945	A09	3/20/17	44	I29310979	G01	3/20/17
11	I29310946	A10	3/20/17	45	I29310980	G02	3/20/17
12	I29310947	A11	3/20/17	46	I29310981	H01	3/20/17
13	I29310948	A12	3/20/17	47	I29310982	I01	3/20/17
14	I29310949	A13	3/20/17	48	I29310983	I02	3/20/17
15	I29310950	A14	3/20/17	49	I29310984	J01	3/20/17
16	I29310951	A15	3/20/17	50	I29310985	J02	3/20/17
17	I29310952	A16	3/20/17	51	I29310986	J03	3/20/17
18	I29310953	A17	3/20/17	52	I29310987	J04	3/20/17
19	I29310954	A17A	3/20/17	53	I29310988	J05	3/20/17
20	I29310955	A18	3/20/17	54	I29310989	J06	3/20/17
21	I29310956	A18A	3/20/17	55	I29310990	J07	3/20/17
22	I29310957	A19	3/20/17	56	I29310991	J08	3/20/17
23	I29310958	A20	3/20/17	57	I29310992	J09	3/20/17
24	I29310959	A21	3/20/17	58	I29310993	J10	3/20/17
25	I29310960	A22	3/20/17	59	I29310994	J11	3/20/17
26	I29310961	A23	3/20/17	60	I29310995	J12	3/20/17
27	I29310962	A24	3/20/17	61	I29310996	J13	3/20/17
28	I29310963	A25	3/20/17	62	I29310997	J14	3/20/17
29	I29310964	A26	3/20/17	63	I29310998	J15	3/20/17
30	I29310965	A27	3/20/17	64	I29310999	J16	3/20/17
31	I29310966	A28	3/20/17	65	I29311000	J17	3/20/17
32	I29310967	A29	3/20/17	66	I29311001	J18	3/20/17
33	I29310968	B01	3/20/17	67	I29311002	J19	3/20/17
34	I29310969	B02	3/20/17	68	I29311003	J20	3/20/17

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.

March 20,2017

Komnick, Chad

RE: 807186_Master - H&H-NC/Redbud/

No.	Seal#	Job ID#	Truss Name	Date
69	I29311004	807186_Master	J21	3/20/17
70	I29311005	807186_Master	J22	3/20/17
71	I29311006	807186_Master	J23	3/20/17
72	I29311007	807186_Master	J24	3/20/17
73	I29311008	807186_Master	J25	3/20/17
74	I29311009	807186_Master	J26	3/20/17
75	I29311010	807186_Master	J27	3/20/17
76	I29311011	807186_Master	J28	3/20/17
77	I29311012	807186_Master	J29	3/20/17
78	I29311013	807186_Master	J30	3/20/17
79	I29311014	807186_Master	J31	3/20/17
80	I29311015	807186_Master	J32	3/20/17
81	I29311016	807186_Master	J33	3/20/17
82	I29311017	807186_Master	J34	3/20/17
83	I29311018	807186_Master	J35	3/20/17
84	I29311019	807186_Master	J36	3/20/17
85	I29311020	807186_Master	J37	3/20/17
86	I29311021	807186_Master	J38	3/20/17
87	I29311022	807186_Master	K01	3/20/17
88	I29311023	807186_Master	K02	3/20/17
89	I29311024	807186_Master	L01	3/20/17
90	I29311025	807186_Master	L02	3/20/17
91	I29311026	807186_Master	L03	3/20/17
92	I29311027	807186_Master	L04	3/20/17
93	I29311028	807186_Master	L05	3/20/17
94	I29311029	807186_Master	PB01	3/20/17
95	I29311030	807186_Master	PB02	3/20/17

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	A01	HALF HIP GIRDER	1	2	I29310936
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:13:40 2017 Page 1
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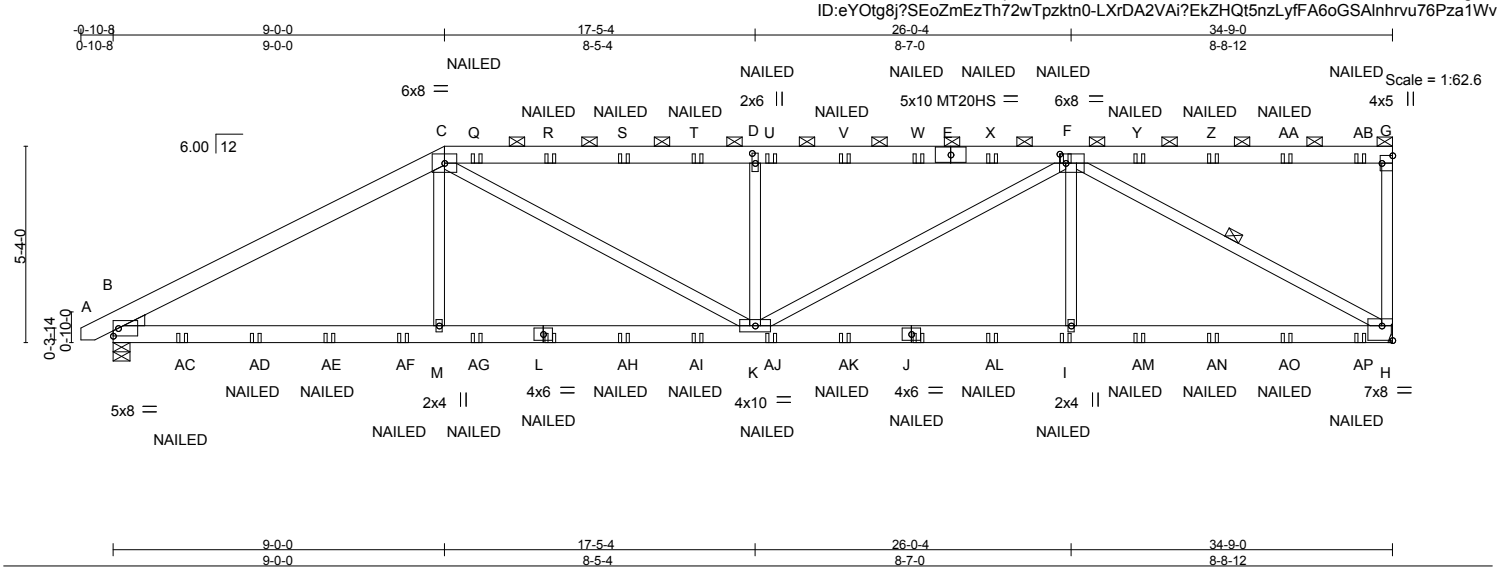

Plate Offsets (X,Y)-- [D:0-3-4,0-1-0], [F:0-2-0,0-3-0], [G:Edge,0-3-8], [H:Edge,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.08	I-K	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(TL)	-0.21	I-K	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.82	Horz(TL)	-0.11	H	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-M)		Wind(LL)	0.38	I-K	>999	240	Weight: 473 lb	FT = 20%

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

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.): C-G.
BOT CHORD Rigid ceiling directly applied or 6-5-11 oc bracing.
WEBS 1 Row at midpt F-H

REACTIONS. (lb/size) H=1943/Mechanical, B=2123/0-5-8
Max Horz B=428(LC 5)
Max Uplift H=-3981(LC 5), B=-3395(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-3358/5778, C-Q=-3590/7054, Q-R=-3590/7054, R-S=-3590/7054, S-T=-3590/7054, D-T=-3590/7054, D-U=-3590/7054, U-V=-3590/7054, V-W=-3590/7054, E-W=-3590/7054, E-X=-3590/7054, F-X=-3590/7054, G-H=-297/744
BOT CHORD B-AC=-5374/2888, AC-AD=-5374/2888, AD-AE=-5374/2888, AE-AF=-5374/2888, M-AF=-5374/2888, M-AG=-5356/2873, L-AG=-5356/2873, L-AH=-5356/2873, AH-AI=-5356/2873, K-AI=-5356/2873, K-AJ=-5569/2712, AJ-AK=-5569/2712, J-AK=-5569/2712, J-AL=-5569/2712, I-AL=-5569/2712, I-AM=-5569/2712, AM-AN=-5569/2712, AN-AO=-5569/2712, AO-AP=-5569/2712, H-AP=-5569/2712
WEBS C-M=-655/557, C-K=-2334/828, D-K=-680/1730, F-K=-1907/1009, F-I=-366/520, F-H=-3078/6216

NOTES- (14)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) 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) 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) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) H=3981, B=3395.
11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) "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.

Continued on page 2

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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.

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-G=-60, H-N=-20
   Concentrated Loads (lb)
   Vert: L=-23(F) I=-23(F) F=-35(F) J=-23(F) Q=-35(F) R=-35(F) S=-35(F) T=-35(F) U=-35(F) V=-35(F) W=-35(F) X=-35(F) Y=-35(F) Z=-35(F) AA=-35(F) AB=-43(F) AC=-125(F) AD=-120(F) AE=-120(F) AF=-122(F) AG=-23(F) AH=-23(F) AI=-23(F) AJ=-23(F) AK=-23(F) AL=-23(F) AM=-23(F) AN=-23(F) AO=-23(F) AP=-26(F)

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29310937
807186_MASTER	A02	Hip	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:13:41 2017 Page 1
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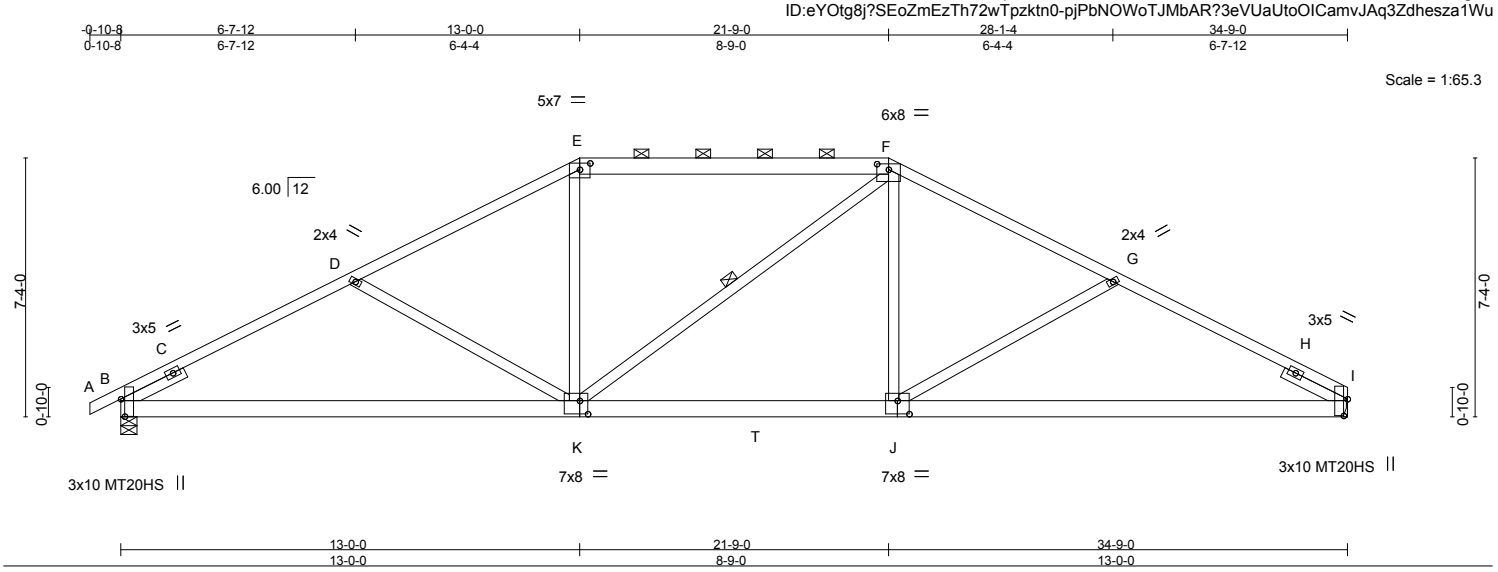

Plate Offsets (X,Y)-- [B:0-5-15,0-1-5], [E:0-3-8,0-2-3], [F:0-4-0,0-1-15], [I:0-5-11,0-1-5], [J:0-4-0,0-4-8], [K:0-2-12,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.16	K-R	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(TL)	-0.42	K-R	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(TL)	0.08	I	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.21	J-K	>999	240	Weight: 209 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
E-F: 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 2-0-0, Right 2x4 SP No.3 2-0-0

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

REACTIONS. (lb/size) I=1389/Mechanical, B=1443/0-5-8
Max Horz B=225(LC 8)
Max Uplift I=-895(LC 9), B=-992(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1193/200, C-D=-2286/2137, D-E=-1960/1807, E-F=-1682/1761, F-G=-1971/1819, G-H=-2290/2139, H-I=-1188/237
BOT CHORD B-K=-1708/1983, K-T=-1142/1678, J-T=-1142/1678, I-J=-1710/1988
WEBS D-K=-356/656, E-K=-180/491, F-J=-190/488, G-J=-354/652

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 MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) I=895, B=992.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29310938
807186_MASTER	A03	HIP	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:13:42 2017 Page 1

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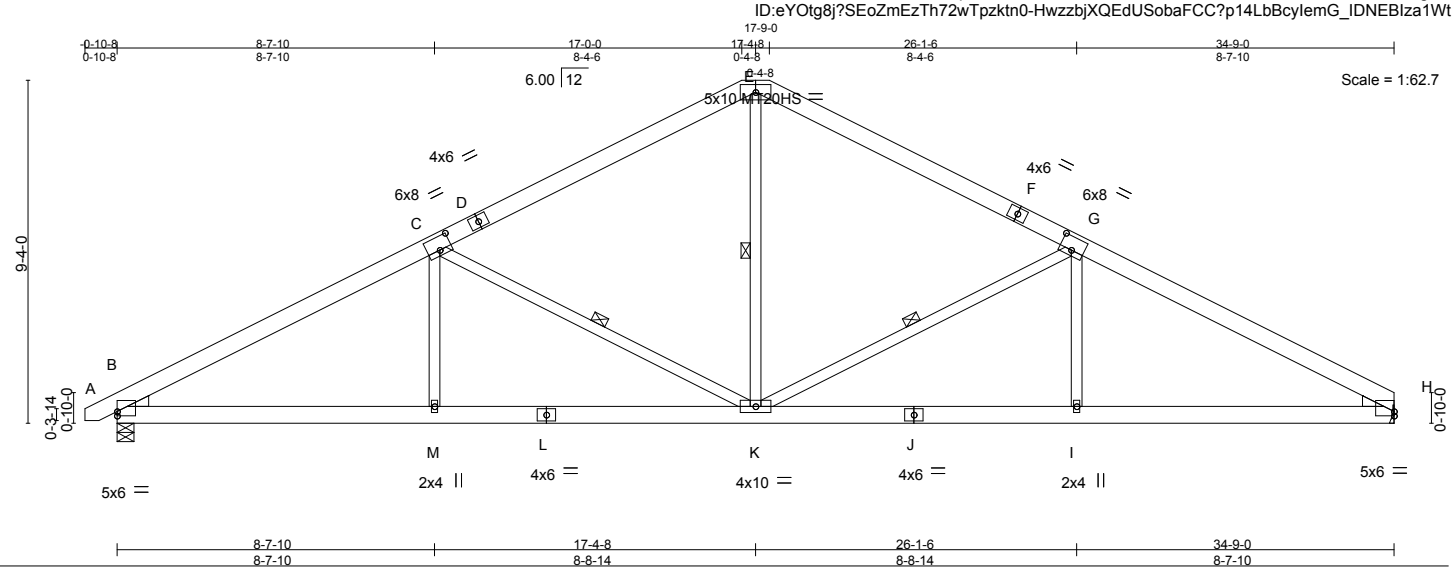

Plate Offsets (X,Y)-- [B:0-0-0,0-1-7], [C:0-4-0,0-4-4], [G:0-4-0,0-4-4], [H:0-0-0,0-1-7]

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	0.58	Vert(LL)	-0.09	K-M	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(TL)	-0.24	K-M	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.37	Horz(TL)	0.09	H	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.16	K-M	>999	240	Weight: 230 lb	FT = 20%

LUMBER-

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

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, G-K, E-K

REACTIONS. (lb/size) B=1432/0-5-8, H=1390/Mechanical
Max Horz B=269(LC 8)
Max Uplift B=-1024(LC 8), H=-948(LC 9)

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

TOP CHORD B-C=-2359/2111, C-D=-1678/1648, D-E=-1560/1687, E-F=-1560/1687, F-G=-1678/1648, G-H=-2360/2112
BOT CHORD B-M=-1660/2004, L-M=-1660/2004, K-L=-1660/2004, J-K=-1661/2006, I-J=-1661/2006, H-I=-1661/2006
WEBS C-M=0/320, C-K=-731/898, G-K=-734/899, G-I=0/321, E-K=-756/847

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) 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) B=1024, H=948.
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.

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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29310939
807186_MASTER	A04	COMMON	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:13:42 2017 Page 1
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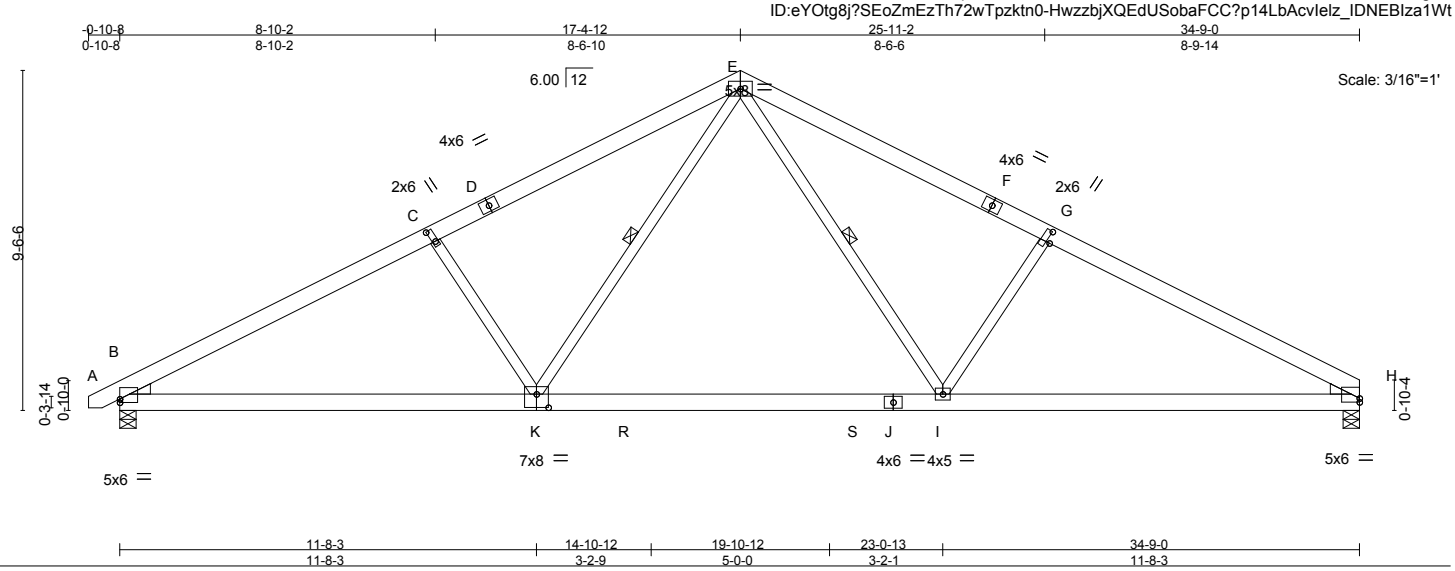


Plate Offsets (X,Y)-- [B:0-0-0,0-1-3], [C:0-4-4,0-1-0], [G:0-3-13,0-1-4], [H:0-0-0,0-1-5], [K:0-4-0,0-4-8]

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	0.58	Vert(LL)	-0.26	I-K	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(TL)	-0.47	I-K	>893	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.39	Horz(TL)	0.08	H	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.18	I-K	>999	240	Weight: 223 lb	FT = 20%

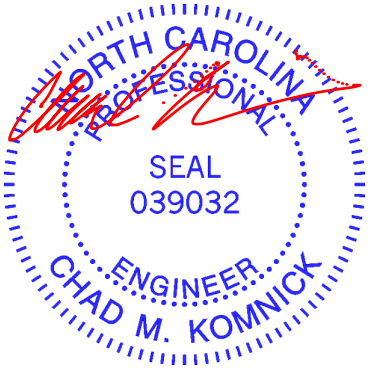
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

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

REACTIONS. (lb/size) B=1432/0-5-8, H=1390/0-5-8
Max Horz B=273(LC 8)
Max Uplift B=-1023(LC 8), H=-947(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2335/2139, C-D=-2063/2060, D-E=-1946/2102, E-F=-1938/2094, F-G=-2056/2052, G-H=-2328/2133
BOT CHORD B-K=-1681/1985, K-R=-861/1352, R-S=-861/1352, J-S=-861/1352, I-J=-861/1352, H-I=-1674/1977
WEBS C-K=-488/851, E-K=-687/789, E-I=-677/782, G-I=-485/847

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, 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) B=1023, H=947.
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.



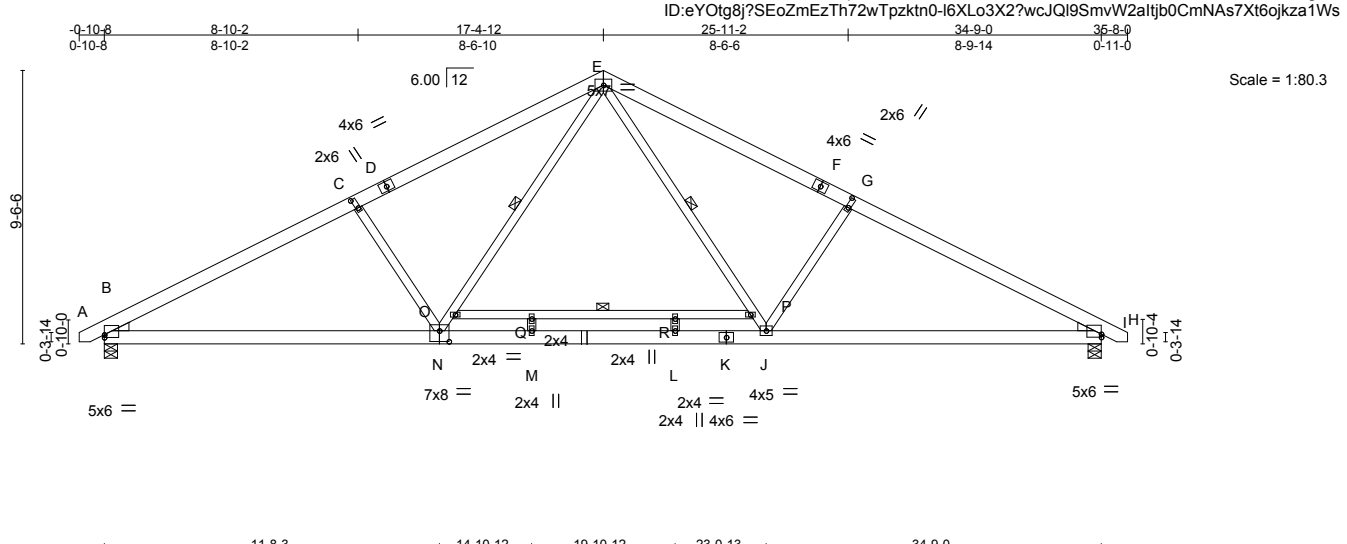
March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29310940
807186_MASTER	A05	COMMON	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:13:43 2017 Page 1
ID:eYOtg8j?SEoZmEzTh72wTpzktn0-l6XLo3X2?wcJQl9SmvW2aItjb0CmNAs7Xt6ojkza1Ws



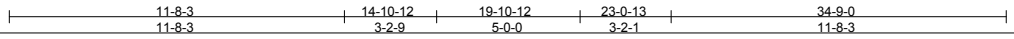


Plate Offsets (X,Y)-- [B:0-0-0,0-1-3], [C:0-4-4,0-1-0], [G:0-4-4,0-1-0], [H:Edge,0-1-5], [N:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.10	L-M	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(TL)	-0.52	L-M	>795	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.54	Horz(TL)	0.09	H	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.18	L-M	>999	240	Weight: 242 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-10-15 oc bracing.
WEBS 1 Row at midpt E-N, E-J, O-P

REACTIONS. (lb/size) B=1531/0-5-8, H=1534/0-5-8
Max Horz B=-256(LC 9)
Max Uplift B=-923(LC 8), H=-927(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2564/1920, C-D=-2292/1838, D-E=-2170/1879, E-F=-2161/1871, F-G=-2282/1829, G-H=-2554/1913
BOT CHORD B-N=-1461/2186, M-N=-734/1588, L-M=-734/1588, K-L=-734/1588, J-K=-734/1588, H-J=-1454/2176
WEBS C-N=-483/888, N-O=-576/822, E-O=-597/888, E-P=-585/878, J-P=-564/812, G-J=-479/884

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) 200.0lb AC unit load placed on the bottom chord, 17-4-12 from left end, supported at two points, 5-0-0 apart.
4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
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) except (jt=lb) B=923, H=927.
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.

March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	A05A	COMMON	2	1	I29310941
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:13:44 2017 Page 1
ID:eYOtg8j?SEoZmEzTh72wTpzktn0-DI4j0PYglEkA1ukeJd1H6VQuxPYh6dtGlXsLFBza1Wr

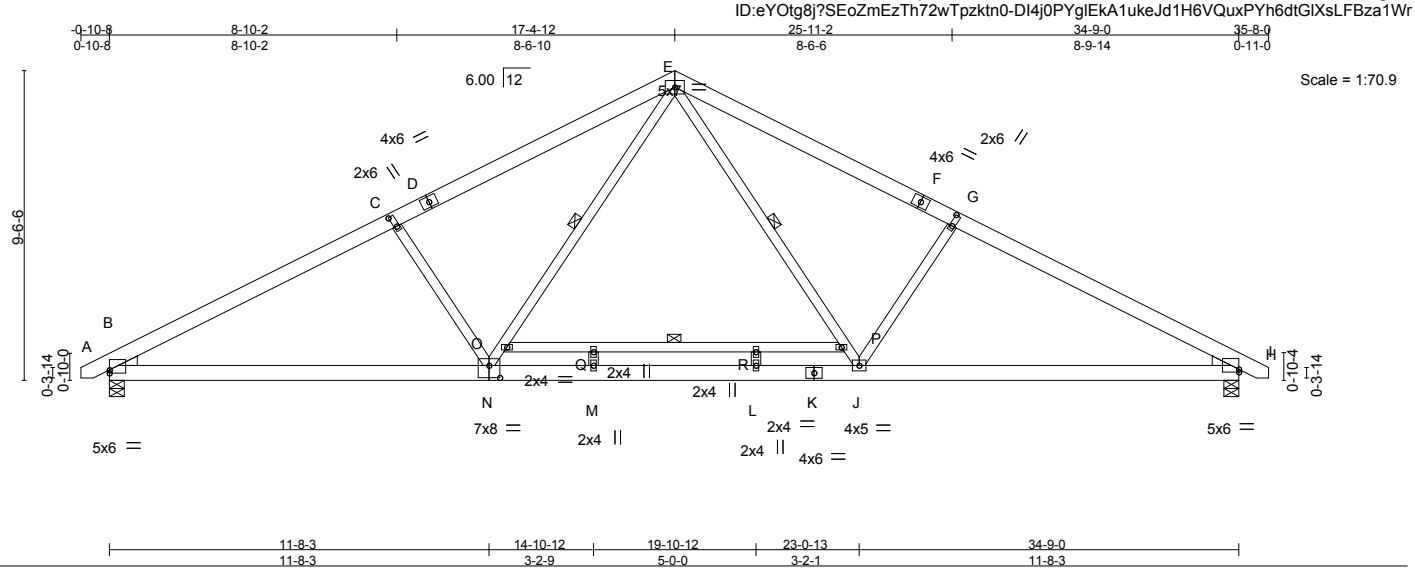


Plate Offsets (X,Y)-- [B:0-0-0,0-1-3], [C:0-4-4,0-1-0], [G:0-4-4,0-1-0], [H:Edge,0-1-1], [N:0-4-0,0-4-8]

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	0.82	Vert(LL)	-0.11	L-M	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(TL)	-0.53	L-M	>781	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.56	Horz(TL)	0.09	H	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.18	L-M	>999	240	Weight: 242 lb	FT = 20%

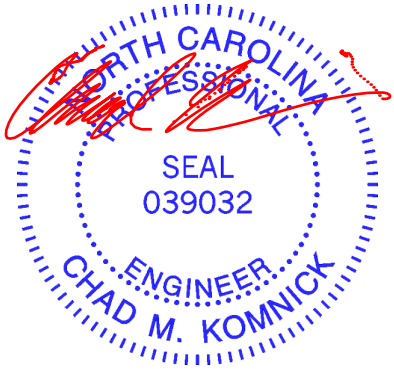
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
O-P: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-9-10 oc bracing.
WEBS 1 Row at midpt E-N, E-J, O-P

REACTIONS. (lb/size) B=1576/0-5-8, H=1579/0-5-8
Max Horz B=-264(LC 9)
Max Uplift B=-955(LC 8), H=-959(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2637/1987, C-D=-2356/1902, D-E=-2231/1945, E-F=-2221/1936, F-G=-2346/1893, G-H=-2627/1980
BOT CHORD B-N=-1513/2249, M-N=-762/1633, L-M=-762/1633, K-L=-762/1633, J-K=-762/1633, H-J=-1506/2238
WEBS C-N=-499/916, N-O=-597/845, E-O=-619/912, E-P=-607/902, J-P=-584/835, G-J=-494/911

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) 200.0lb AC unit load placed on the bottom chord, 17-4-12 from left end, supported at two points, 5-0-0 apart.
4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
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) except (jt=lb) B=955, H=959.
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.



March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29310942
807186_MASTER	A06	COMMON	3	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:13:44 2017 Page 1
ID:eYOtg8j?SEoZmEzTh72wTpzktn0-DI4j0PYglEkA1ukeJd1H6VQyqPaN6dxGlXsLFBza1Wr

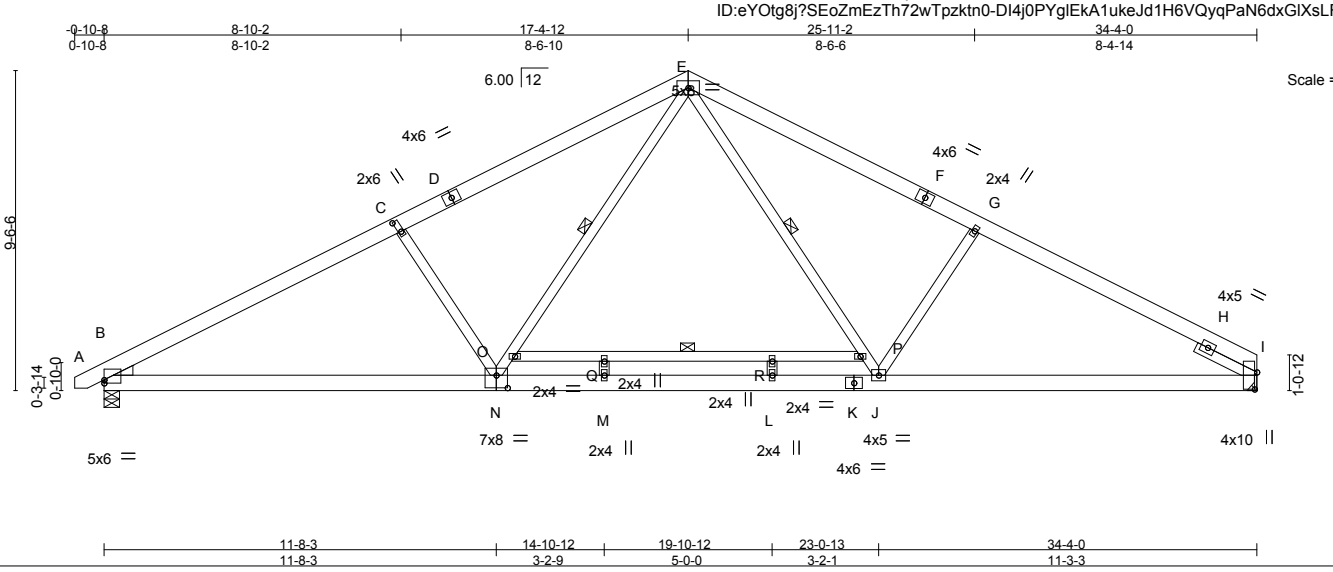


Plate Offsets (X,Y)-- [B:0-0-0,0-1-3], [C:0-4-4,0-1-0], [I:0-6-2,0-0-13], [N:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.10	L-M	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.70	Vert(TL)	-0.53	L-M	>782	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.55	Horz(TL)	0.10	I	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.18	L-M	>999	240	Weight: 240 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
O-P: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3
SLIDER Right 2x4 SP No.3 2-0-0

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

REACTIONS. (lb/size) B=1514/0-5-8, I=1474/Mechanical
Max Horz B=285(LC 8)
Max Uplift B=-915(LC 8), I=-831(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2521/1885, C-D=-2252/1804, D-E=-2137/1846, E-F=-2073/1791, F-G=-2181/1749, G-H=-2402/1825, H-I=-809/440
BOT CHORD B-N=-1479/2146, M-N=-767/1558, L-M=-767/1558, K-L=-767/1558, J-K=-767/1558, I-J=-1402/2052
WEBS C-N=-470/865, N-O=-559/817, E-O=-576/880, E-P=-494/789, J-P=-477/724, G-J=-408/802

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) 200.0lb AC unit load placed on the bottom chord, 17-4-12 from left end, supported at two points, 5-0-0 apart.
4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
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) B=915, I=831.
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.

March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29310943
807186_MASTER	A07	COMMON	3	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:13:45 2017 Page 1
ID:eYOtg8j?SEoZmEzTh72wTpzktn0-hVe6DlZIWYs1f2JqtKZWfjz6Vpwrr5jQ_Bbuodza1Wq

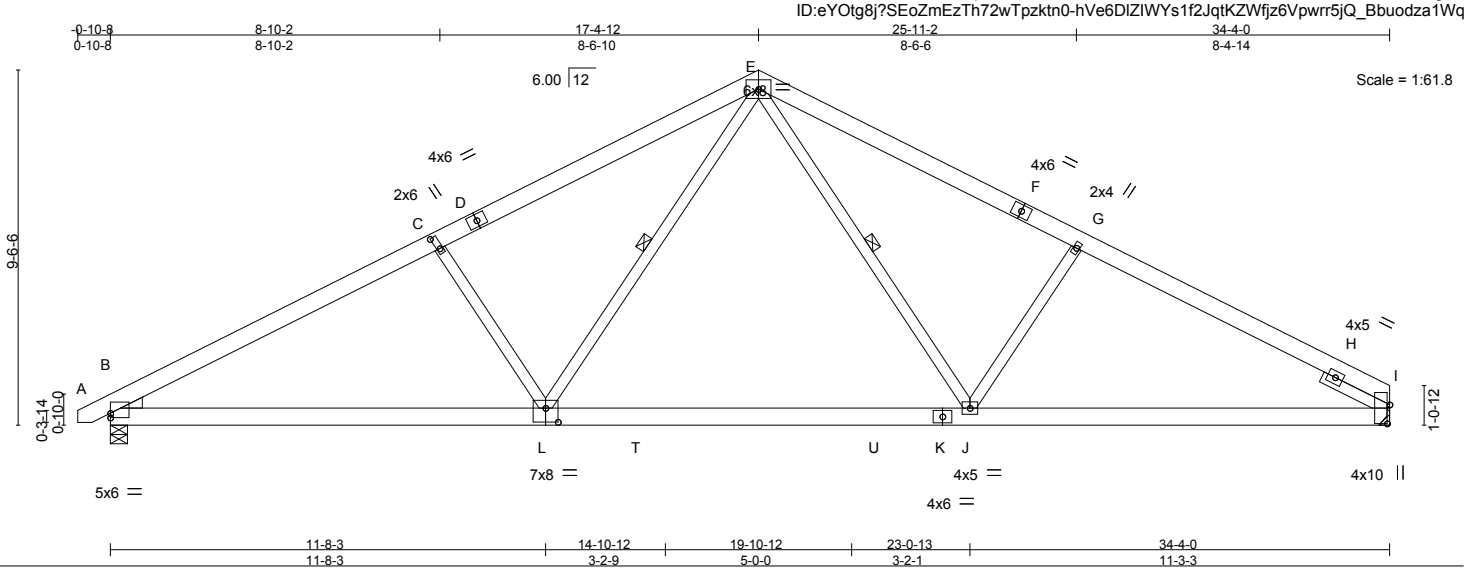


Plate Offsets (X,Y)-- [B:0-0-0,0-1-7], [C:0-4-4,0-1-0], [I:0-6-2,0-0-13], [L:0-4-0,0-4-8]

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	0.58	Vert(LL)	-0.26	J-L	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(TL)	-0.48	J-L	>860	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.39	Horz(TL)	0.08	I	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.18	J-L	>999	240	Weight: 223 lb	FT = 20%

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

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

REACTIONS. (lb/size) B=1415/0-5-8, I=1373/Mechanical
Max Horz B=285(LC 8)
Max Uplift B=-1014(LC 8), I=-932(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2301/2107, C-D=-2030/2028, D-E=-1913/2070, E-F=-1853/2011, F-G=-1964/1969, G-H=-2187/2043, H-I=-814/426
BOT CHORD B-L=-1673/1955, L-T=-854/1321, T-U=-854/1321, K-U=-854/1321, J-K=-854/1321, I-J=-1589/1868
WEBS C-L=-486/848, E-L=-687/792, E-J=-600/710, G-J=-431/778

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, with BCDL = 10.0psf.
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=1014, I=932.
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.

March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29310944
807186_MASTER	A08	COMMON	2	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:13:46 2017 Page 1
ID:eYOtg8j?SEoZmEzTh72wTpzktn0-9hCUQ5axHr_uHCu1R24lBwVH9DGDaY?ZDrLSK3za1Wp

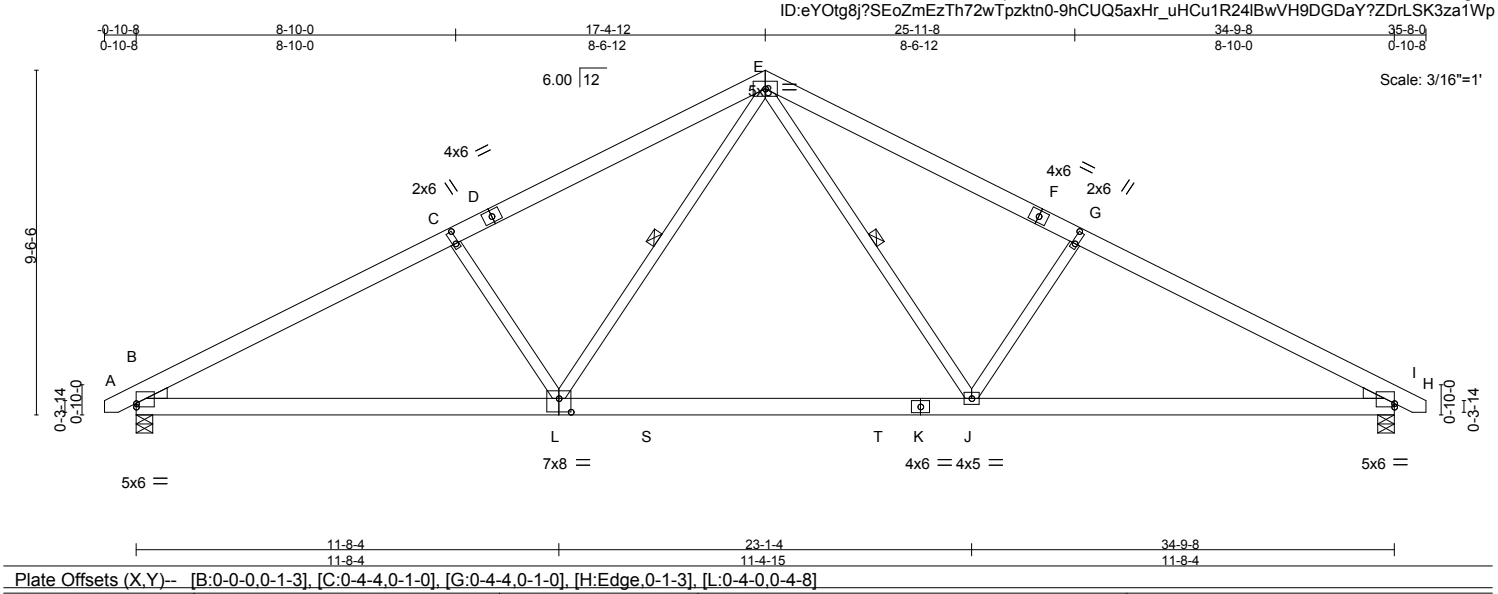


Plate Offsets (X,Y)-- [B:0-0-0,0-1-3], [C:0-4-4,0-1-0], [G:0-4-4,0-1-0], [H:Edge,0-1-3], [L:0-4-0,0-4-8]

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	0.58	Vert(LL)	-0.26	J-L	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(TL)	-0.47	J-L	>894	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.39	Horz(TL)	0.07	H	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.17	J-L	>999	240	Weight: 225 lb	FT = 20%

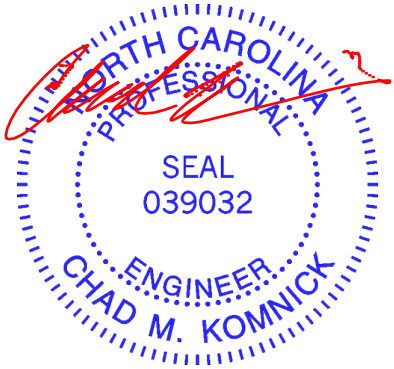
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

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

REACTIONS. (lb/size) B=1433/0-5-8, H=1433/0-5-8
Max Horz B=255(LC 8)
Max Uplift B=-1024(LC 8), H=-1024(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2338/2141, C-D=-2065/2059, D-E=-1947/2101, E-F=-1947/2101, F-G=-2065/2059, G-H=-2338/2141
BOT CHORD B-L=-1651/1987, L-S=-833/1355, S-T=-833/1355, K-T=-833/1355, J-K=-833/1355, H-J=-1653/1987
WEBS E-J=-683/788, G-J=-488/850, E-L=-683/788, C-L=-488/850

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, 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) B=1024, H=1024.
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.



March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	A09	ROOF SPECIAL	3	1	I29310945
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:13:47 2017 Page 1
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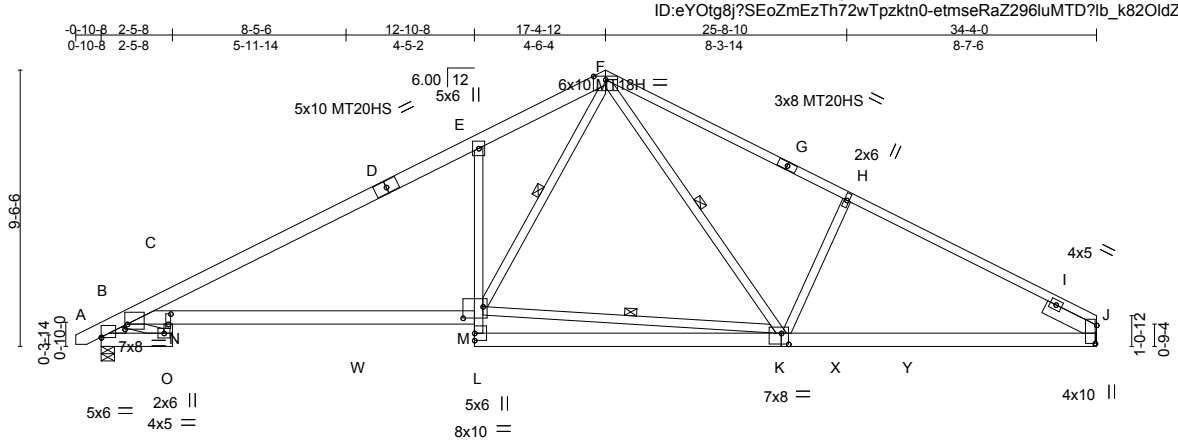


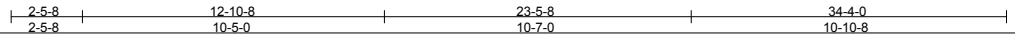


Plate Offsets (X,Y)-- [B:0-0-0,0-0-3], [C:0-1-0,0-2-2], [J:0-7-9,0-0-9], [K:0-3-0,0-4-8], [M:0-8-4,0-4-12], [N:0-4-4,0-1-0]

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	0.85	Vert(LL)	-0.29	M-N	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(TL)	-0.85	M-N	>482	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(TL)	0.27	J	n/a	n/a	MT18H	244/190
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.68	M-N	>605	240	Weight: 230 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP DSS *Except*
F-G: 2x4 SP No.2, G-J: 2x4 SP No.1
BOT CHORD 2x6 SP No.2 *Except*
C-M: 2x6 SP No.1, E-L: 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3
SLIDER Right 2x6 SP No.2 2-0-0

BRACING-

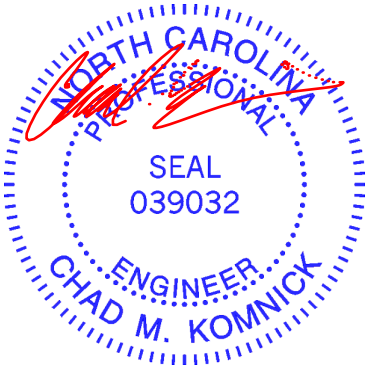
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt K-M, F-M, F-K

REACTIONS. (lb/size) B=1415/0-5-8, J=1373/Mechanical
Max Horz B=293(LC 8)
Max Uplift B=-1013(LC 8), J=-932(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1434/1718, C-D=-2438/2138, D-E=-2179/2174, E-F=-2398/2637, F-G=-1852/2061, G-H=-1967/2020, H-I=-2146/1995, I-J=-593/0
BOT CHORD B-O=-1301/916, C-N=-1649/2107, N-W=-1653/2107, M-W=-1650/2112, E-M=-734/1129, K-X=-1542/1833, X-Y=-1542/1833, J-Y=-1542/1833
WEBS K-M=-905/1370, F-M=-1424/1362, F-K=-558/572, H-K=-430/804, N-O=-713/545, C-O=-1035/1470

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) 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) B=1013, J=932.
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.



March 20,2017

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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	A10	HIP	1	1	I29310946
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:13:48 2017 Page 1

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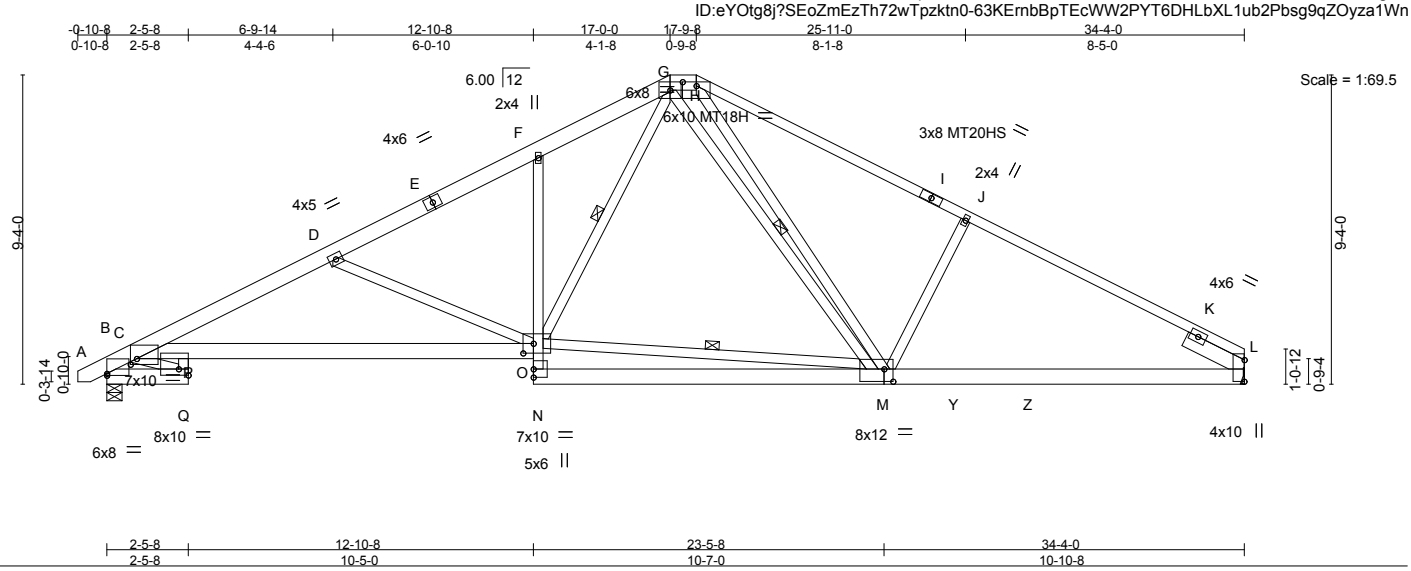


Plate Offsets (X,Y)-- [B:0-0-0,0-0-11], [C:0-2-4,0-2-2], [H:0-5-0,0-1-7], [L:0-7-13,0-0-1], [M:0-3-4,0-4-8], [O:0-3-12,0-3-8], [P:Edge,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.25	O-P	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(TL)	-0.78	O-P	>527	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.64	Horz(TL)	0.25	L	n/a	n/a	MT18H	244/190
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.48	O-P	>861	240	Weight: 253 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2 *Except* H-I,I-L: 2x4 SP No.2
BOT CHORD	2x6 SP No.2 *Except* F-N: 2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Right 2x6 SP No.2 2-0-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-9-6 max.): G-H.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt M-O, G-O, G-M

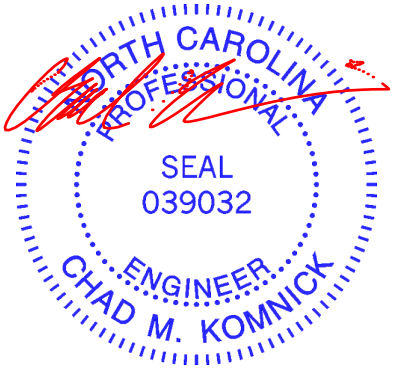
REACTIONS. (lb/size) B=1415/0-5-8, L=1373/Mechanical
Max Horz B=286(LC 8)
Max Uplift B=-1009(LC 8), L=-928(LC 9)

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

TOP CHORD	B-C=-1168/1293, C-D=-2790/2611, D-E=-2198/2027, E-F=-2094/2057, F-G=-2118/2296, G-H=-1411/1790, H-I=-1846/2022, I-J=-1954/1983, J-K=-2145/1991, K-L=-590/0
BOT CHORD	B-Q=-824/615, C-P=-2225/2506, O-P=-2225/2506, F-O=-283/535, M-Y=-1541/1832, Y-Z=-1541/1832, L-Z=-1541/1832
WEBS	M-O=-759/1227, G-O=-1036/1034, G-M=-388/281, H-M=-296/510, P-Q=-467/394, C-Q=-695/931, J-M=-409/766, D-O=-699/944

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 MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=1009, L=928.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



March 20,2017

ENGINEERING BY TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29310947
807186_MASTER	A11	HIP	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:13:48 2017 Page 1
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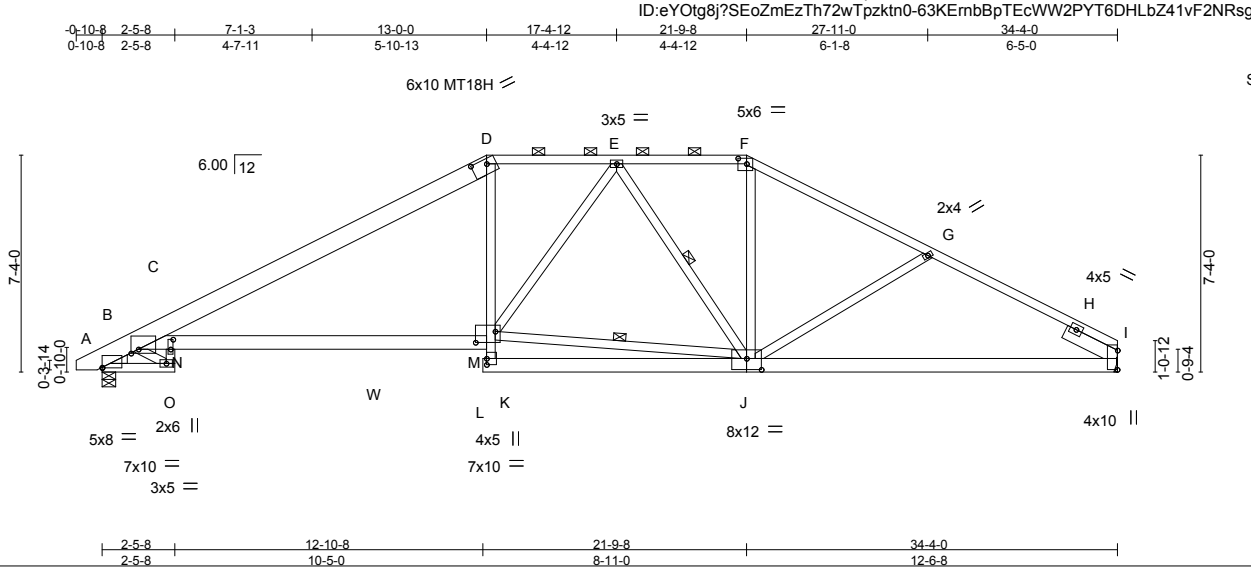

Plate Offsets (X,Y)-- [B:0-0-0,0-0-3], [C:0-3-0,0-1-10], [D:0-6-4,0-2-0], [F:0-3-8,0-2-4], [I:0-7-13,0-0-1], [J:0-6-0,0-4-8], [K:0-2-8,0-0-0], [M:0-8-0,0-4-8], [N:0-4-0,0-1-0]

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	0.88	Vert(LL)	-0.26	M-N	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(TL)	-0.76	M-N	>544	240	MT18H	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(TL)	0.26	I	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.57	M-N	>722	240	Weight: 236 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
A-D: 2x8 SP DSS
BOT CHORD 2x6 SP No.2 *Except*
B-O,D-K: 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3
SLIDER Right 2x6 SP No.2 2-0-0

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-8-0 max.): D-F.
BOT CHORD Rigid ceiling directly applied. Except: 10-0-0 oc bracing: K-M
WEBS 1 Row at midpt J-M, E-J

REACTIONS. (lb/size) I=1375/Mechanical, B=1408/0-5-8
Max Horz B=230(LC 8)
Max Uplift I=-877(LC 9), B=-941(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1161/1475, C-D=-2334/1945, D-E=-1961/1968, E-F=-1604/1677, F-G=-1874/1725, G-H=-2159/2013, H-I=-799/0
BOT CHORD B-O=-1064/628, C-N=-1427/2010, N-W=-1431/2010, M-W=-1428/2014, D-M=-126/446, I-J=-1592/1855
WEBS J-M=-1150/1720, E-M=-241/339, E-J=-500/442, F-J=-291/501, N-O=-701/442, C-O=-751/1272, G-J=-311/606

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 MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) I=877, B=941.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

March 20,2017

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	A12	HIP GIRDER	1	2	I29310948
					Job Reference (optional)

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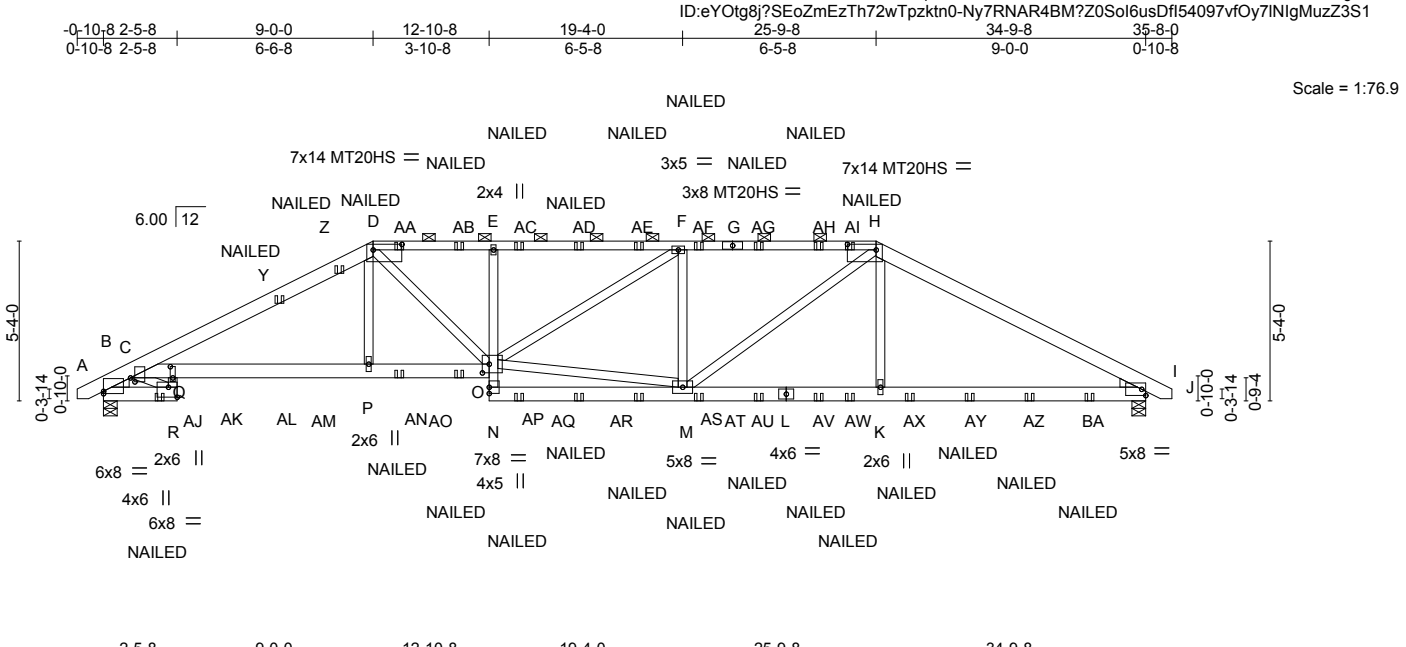


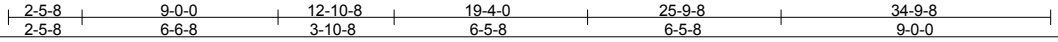


Plate Offsets (X,Y)-- [B:Edge,0-0-15], [C:0-1-10,0-1-12], [D:0-11-8,0-2-4], [H:0-11-8,0-2-4], [O:0-2-12,0-3-8], [Q:0-4-8,0-1-0], [R:Edge,0-4-0]

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	0.95	Vert(LL)	-0.13	P-Q	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(TL)	-0.33	P-Q	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.79	Horz(TL)	-0.23	I	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.49	P-Q	>846	240	Weight: 462 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except* D-G,G-H: 2x4 SP No.1

BOT CHORD 2x6 SP No.2 *Except* C-O,I-L: 2x6 SP No.1, E-N: 2x4 SP No.2

WEBS 2x4 SP No.2

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): D-H.

BOT CHORD Rigid ceiling directly applied or 5-9-3 oc bracing.

REACTIONS. (lb/size) B=2050/0-5-8 (min. 0-1-8), I=2171/0-5-8 (min. 0-1-8)
Max Horz B=147(LC 17)
Max Uplift B=-3215(LC 6), I=-3452(LC 7)

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

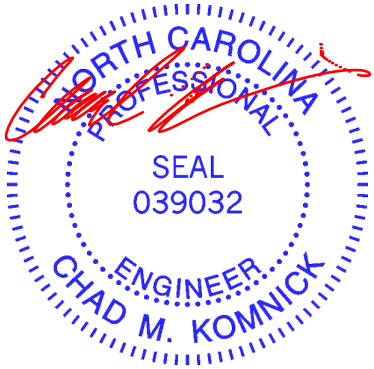
TOP CHORD B-C=-2547/4090, C-Y=-3910/6606, Y-Z=-3794/6590, D-Z=-3717/6514, D-AA=-3866/7031, AA-AB=-3866/7031, E-AB=-3866/7031, E-AC=-3861/7030, AC-AD=-3861/7030, AD-AE=-3861/7030, F-AE=-3861/7030, F-AF=-3564/6645, G-AF=-3564/6645, G-AG=-3564/6645, AG-AH=-3564/6645, AH-AI=-3564/6645, H-AI=-3564/6645, H-I=-3406/5813

BOT CHORD B-AJ=-3102/1874, R-AJ=-3102/1874, C-AK=-6200/3685, Q-AK=-6200/3685, Q-AL=-5824/3427, AL-AM=-5824/3427, AM-AN=-5824/3427, P-AN=-5824/3427, P-AO=-5784/3400, AO-AP=-5784/3400, O-AP=-5784/3400, E-O=-339/752, N-AQ=-1317/794, AQ-AR=-1317/794, AR-AS=-1317/794, M-AS=-1317/794, M-AT=-4878/2899, AT-AU=-4878/2899, L-AU=-4878/2899, L-AV=-4878/2899, AV-AW=-4878/2899, K-AW=-4878/2899, K-AX=-4896/2914, AX-AY=-4896/2914, AY-AZ=-4896/2914, AZ-BA=-4896/2914, I-BA=-4896/2914

WEBS D-P=-1212/773, D-O=-1753/773, M-O=-5179/2809, F-O=-506/374, F-M=-770/1693, H-M=-2033/953, H-K=-685/521, Q-R=-2997/1857, C-R=-2551/4222

NOTES- (15)

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



March 20,2017

Continued on page 2

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Edenton, NC 27932

NOTES- (15)

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 3215 lb uplift at joint B and 3452 lb uplift at joint I.
11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) "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.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 44 lb down and 100 lb up at 3-10-8, and 41 lb down and 111 lb up at 5-10-8, and 14 lb down and 65 lb up at 7-10-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
15) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-D=-60, D-H=-60, H-J=-60, R-S=-20, O-Q=-20, N-V=-20
   Concentrated Loads (lb)
   Vert: Y=-22(B) Z=-49(B) AC=-35(B) AD=-35(B) AE=-35(B) AF=-35(B) AG=-35(B) AH=-35(B) AI=-35(B) AJ=-125(B) AL=-44 AM=-41 AN=-14 AO=-82(B) AP=-82(B) AQ=-23(B) AR=-23(B) AS=-23(B) AT=-23(B) AU=-23(B) AV=-23(B) AW=-23(B) AX=-122(B) AY=-120(B) AZ=-120(B) BA=-125(B)

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	A13	GABLE	1	1	I29310949
					Job Reference (optional)

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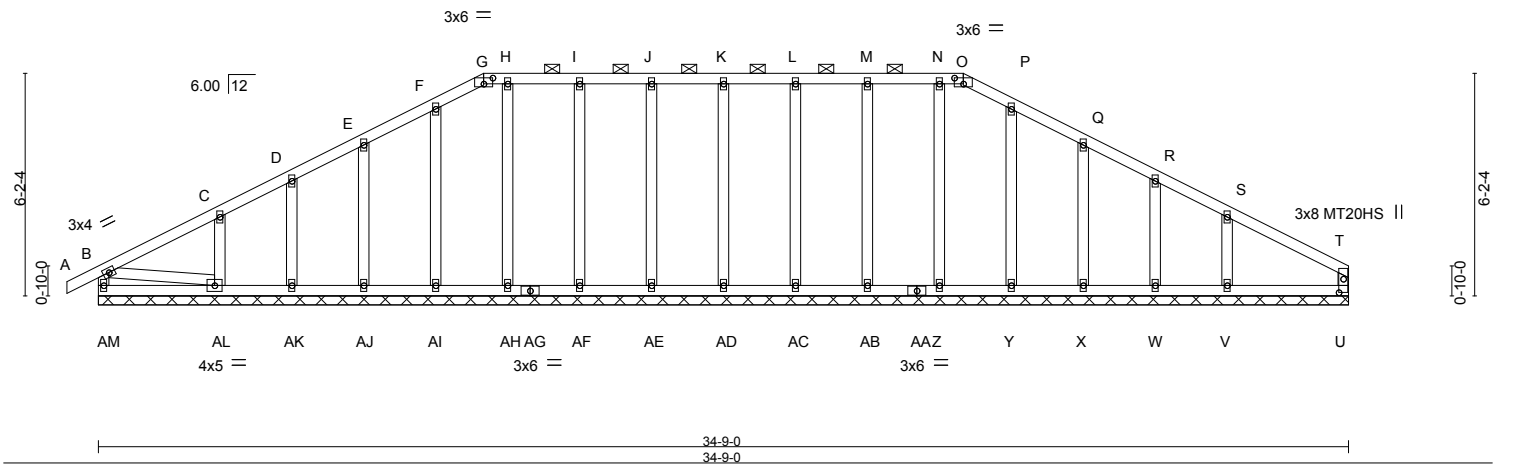
0-10-8 10-8-8 24-0-8 34-9-0

0-10-8 10-8-8 13-4-0 10-8-8

Scale: 3/16"=1'



34-9-0

34-9-0

Plate Offsets (X,Y)-- [G:0-3-0,0-2-0], [O:0-3-0,0-2-0], [T:0-4-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.00	A	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	-0.00	A	n/r	120	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(TL)	0.01	U	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix)							Weight: 214 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* B-AM: 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, and 2-0-0 oc purlins (6-0-0 max.): G-O.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 34-9-0.

(lb) - Max Horz AM=228(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) U, AH, Z, Y except AM=-137(LC 9), AD=-127(LC 6), AE=-124(LC 7), AF=-145(LC 6), AI=-118(LC 8), AJ=-189(LC 8), AK=-142(LC 8), AL=-287(LC 8), AC=-124(LC 7), AB=-142(LC 6), X=-200(LC 9), W=-111(LC 9), V=-316(LC 9)

Max Grav All reactions 250 lb or less at joint(s) AM, U, AD, AE, AF, AH, AI, AJ, AK, AL, AC, AB, Z, Y, X, W except V=253(LC 14)

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

TOP CHORD D-E=-61/256, E-F=-63/346, F-G=-60/417, G-H=-32/412, H-I=-32/412, I-J=-32/412, J-K=-32/412, K-L=-32/412, L-M=-32/412, M-N=-32/412, N-O=-32/412, O-P=-60/417, P-Q=-63/346

WEBS C-AL=-167/305, S-V=-187/356, B-AL=-65/254

NOTES-

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 MT20 plates unless otherwise indicated.
7) All plates are 2x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) U, AH, Z, Y except (jt=lb) AM=137, AD=127, AE=124, AF=145, AI=118, AJ=189, AK=142, AL=287, AC=124, AB=142, X=200, W=111, V=316.
14) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

March 20,2017

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29310950
807186_MASTER	A14	Hip	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

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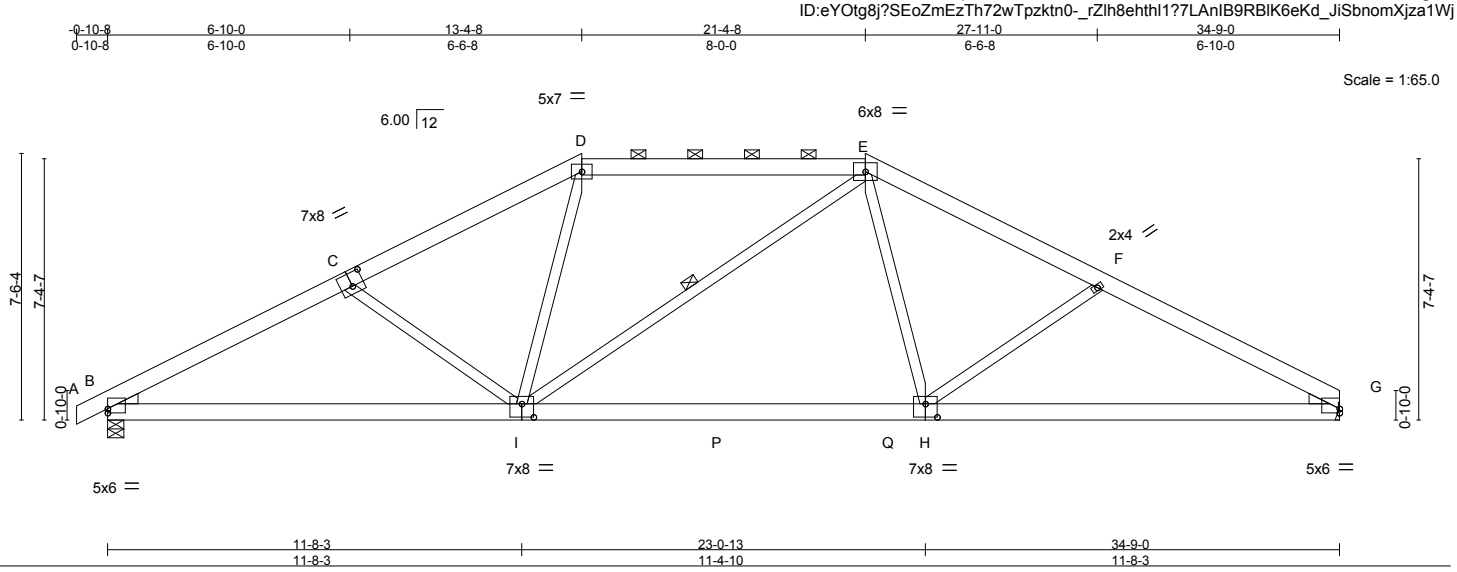

Plate Offsets (X,Y)-- [B:0-0-0,0-1-7], [C:0-4-0,0-4-8], [G:0-0-0,0-1-7], [H:0-4-0,0-4-8], [I:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.19	H-I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(TL)	-0.40	H-I	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.25	Horz(TL)	0.08	G	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.17	H-I	>999	240	Weight: 230 lb	FT = 20%

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

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

REACTIONS. (lb/size) G=1389/Mechanical, B=1443/0-5-8
Max Horz B=228(LC 8)
Max Uplift G=-901(LC 9), B=-998(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2369/2146, C-D=-2056/1902, D-E=-1678/1791, E-F=-2059/1897, F-G=-2379/2163
BOT CHORD B-I=-1717/2024, I-P=-1160/1679, P-Q=-1160/1679, H-Q=-1160/1679, G-H=-1737/2037
WEBS C-I=-324/633, D-I=-247/539, E-H=-235/538, F-H=-333/644

NOTES-
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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) G=901, B=998.
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.

March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	A15	COMMON	1	1	I29310951
					Job Reference (optional)

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ID:eYOtg8j?SEoZmEzTh72wTpzktn0-_rZlh8ehthl1?7LAnIB9RBIK5eJA_70SbnomXjza1Wj

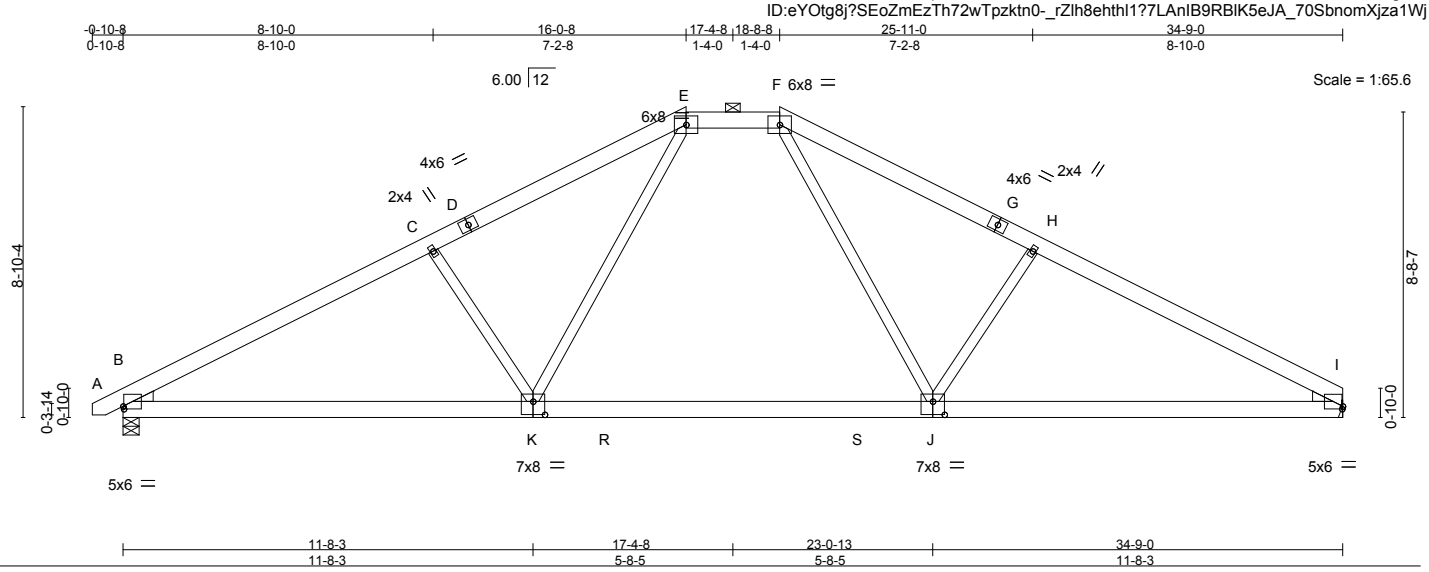

Plate Offsets (X,Y)-- [B:0-0-4,0-0-15], [G:0-0-0,0-0-0], [I:0-0-4,0-0-15], [J:0-4-0,0-4-8], [K:0-4-0,0-4-8]

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	0.56	Vert(LL)	-0.27	J-K	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.70	Vert(TL)	-0.47	J-K	>896	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.99	Horz(TL)	0.08	I	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.18	K	>999	240	Weight: 218 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) B=1432/0-5-8, I=1390/Mechanical
Max Horz B=252(LC 8)
Max Uplift B=-1010(LC 8), I=-934(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2327/2105, C-D=-2059/2030, D-E=-1966/2062, F-G=-1967/2063, G-H=-2060/2031, H-I=-2328/2106, E-F=-1449/1711
BOT CHORD B-K=-1645/1975, K-R=-949/1449, R-S=-949/1449, J-S=-949/1449, I-J=-1647/1977
WEBS F-J=-596/741, H-J=-475/786, E-K=-594/739, C-K=-473/785

NOTES-

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) 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) B=1010, I=934.
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.

March 20,2017

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	A16	COMMON	3	1	I29310952
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:13:53 2017 Page 1
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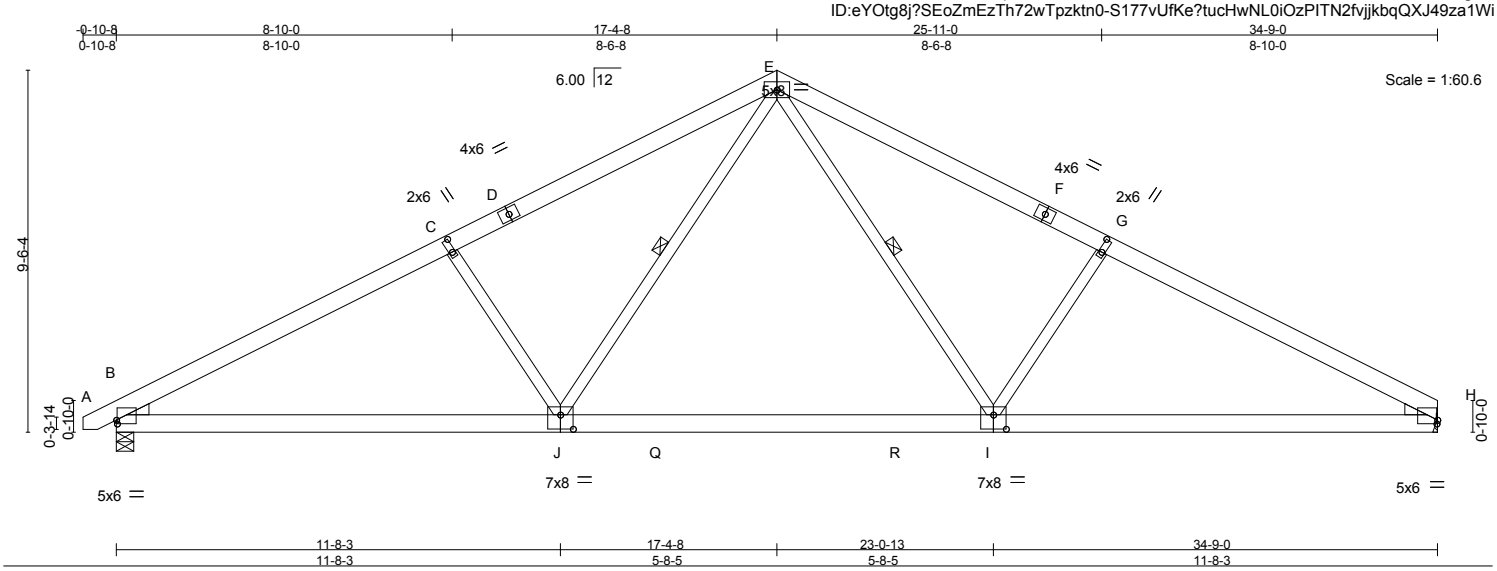


Plate Offsets (X,Y)-- [B:0-0-4,0-1-3], [C:0-4-4,0-1-0], [G:0-4-4,0-1-0], [H:0-0-4,0-1-3], [I:0-4-0,0-4-8], [J:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.26	I-J	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(TL)	-0.46	I-J	>900	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.39	Horz(TL)	0.07	H	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.17	I-J	>999	240	Weight: 223 lb	FT = 20%

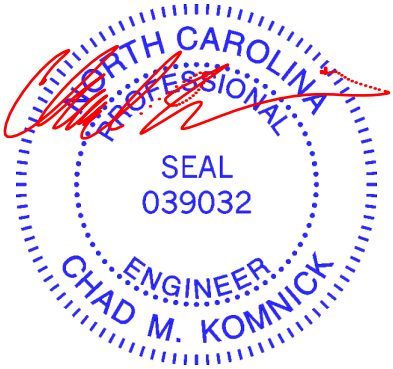
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

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

REACTIONS. (lb/size) B=1432/0-5-8, H=1390/Mechanical
Max Horz B=271(LC 8)
Max Uplift B=-1023(LC 8), H=-947(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2335/2139, C-D=-2063/2058, D-E=-1945/2100, E-F=-1947/2101, F-G=-2064/2059, G-H=-2337/2140
BOT CHORD B-J=-1680/1985, J-Q=-861/1354, Q-R=-861/1354, I-R=-861/1354, H-I=-1682/1987
WEBS E-I=-685/789, G-I=-489/851, E-J=-683/787, C-J=-487/849

NOTES-
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) 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=1023, H=947.
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.



March 20,2017

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TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29310953
807186_MASTER	A17	COMMON	3	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:13:54 2017 Page 1
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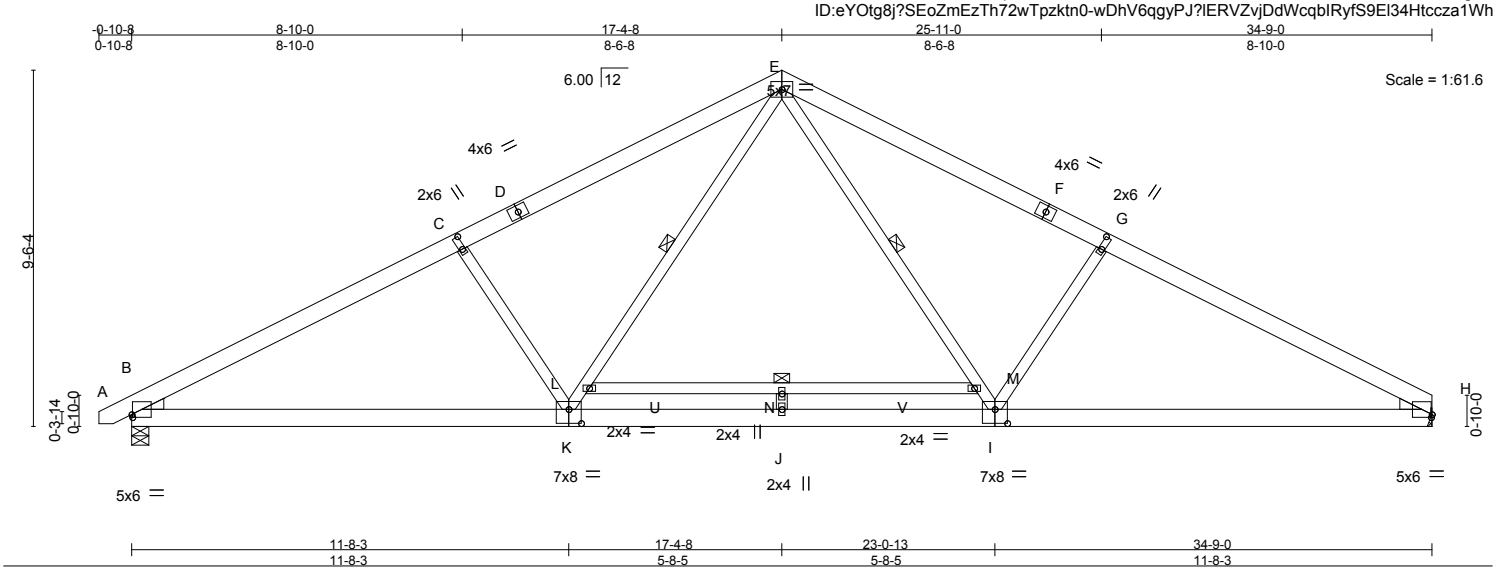


Plate Offsets (X,Y)-- [B:0-0-4,0-0-15], [C:0-0-4,0-1-0], [G:0-0-4,0-1-0], [H:0-0-4,0-0-15], [I:0-4-0,0-4-8], [K:0-4-0,0-4-8]

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	0.83	Vert(LL)	-0.31	J	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(TL)	-0.51	J	>822	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.50	Horz(TL)	0.08	H	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.18	J	>999	240	Weight: 239 lb	FT = 20%

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

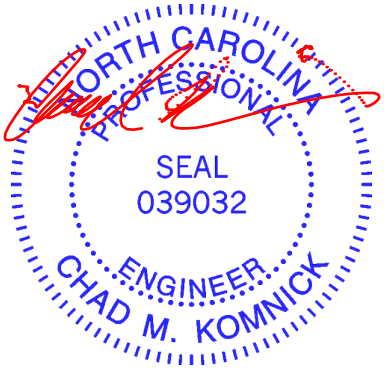
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-6-12 oc bracing.
WEBS 1 Row at midpt E-I, E-K, L-M

REACTIONS. (lb/size) B=1476/0-5-8, H=1433/Mechanical
Max Horz B=280(LC 8)
Max Uplift B=-1055(LC 8), H=-977(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2412/2214, C-D=-2130/2129, D-E=-2003/2172, E-F=-2004/2173, F-G=-2132/2130, G-H=-2414/2216
BOT CHORD B-K=-1742/2053, J-K=-958/1472, I-J=-958/1472, H-I=-1744/2055
WEBS E-M=-733/891, I-M=-688/785, G-I=-515/901, K-L=-686/784, E-L=-731/891, C-K=-513/900

NOTES-
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.
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=1055, H=977.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

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-H=-62, O-R=-21



March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29310954
807186_MASTER	A17A	COMMON	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:13:54 2017 Page 1
ID:eYOtg8j?SEoZmEzTh72wTpzktn0-wDhV6qgyPJ?lERVZvjDdWcqbiRyzS9Ul34Htccza1Wh

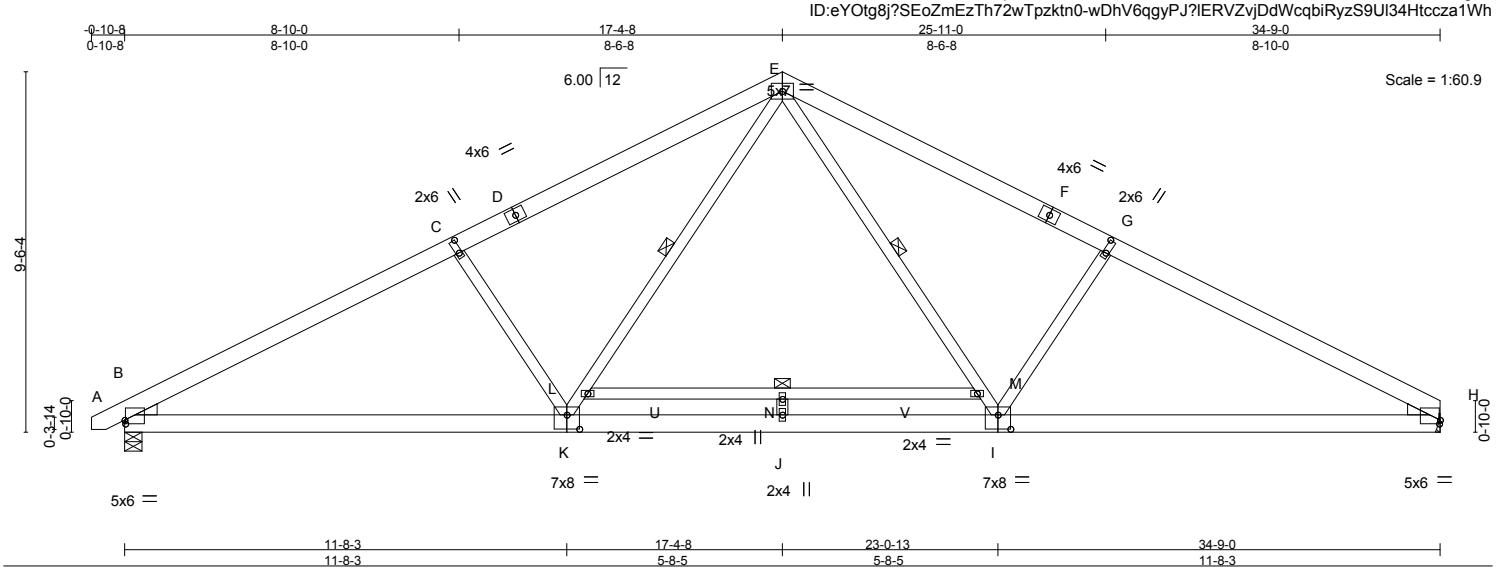


Plate Offsets (X,Y)-- [B:0-0-4,0-1-3], [C:0-4-4,0-1-0], [G:0-4-4,0-1-0], [H:0-0-4,0-1-3], [I:0-4-0,0-4-8], [K:0-4-0,0-4-8]

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	0.80	Vert(LL)	-0.31	J	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(TL)	-0.50	J	>836	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.48	Horz(TL)	0.08	H	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-M)		Wind(LL)	0.18	J	>999	240	Weight: 239 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-7-13 oc bracing.
WEBS 1 Row at midpt E-I, E-K, L-M

REACTIONS. (lb/size) B=1432/0-5-8, H=1390/Mechanical
Max Horz B=271(LC 8)
Max Uplift B=-1023(LC 8), H=-947(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2339/2147, C-D=-2065/2064, D-E=-1942/2106, E-F=-1944/2107, F-G=-2067/2065, G-H=-2341/2149
BOT CHORD B-K=-1690/1991, J-K=-929/1428, I-J=-929/1428, H-I=-1691/1993
WEBS E-M=-711/869, I-M=-667/765, G-I=-499/874, K-L=-665/764, E-L=-709/868, C-K=-498/872

NOTES-
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.
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=1023, H=947.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

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-H=-60, O-R=-20

March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29310955
807186_MASTER	A18	COMMON	7	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:13:55 2017 Page 1
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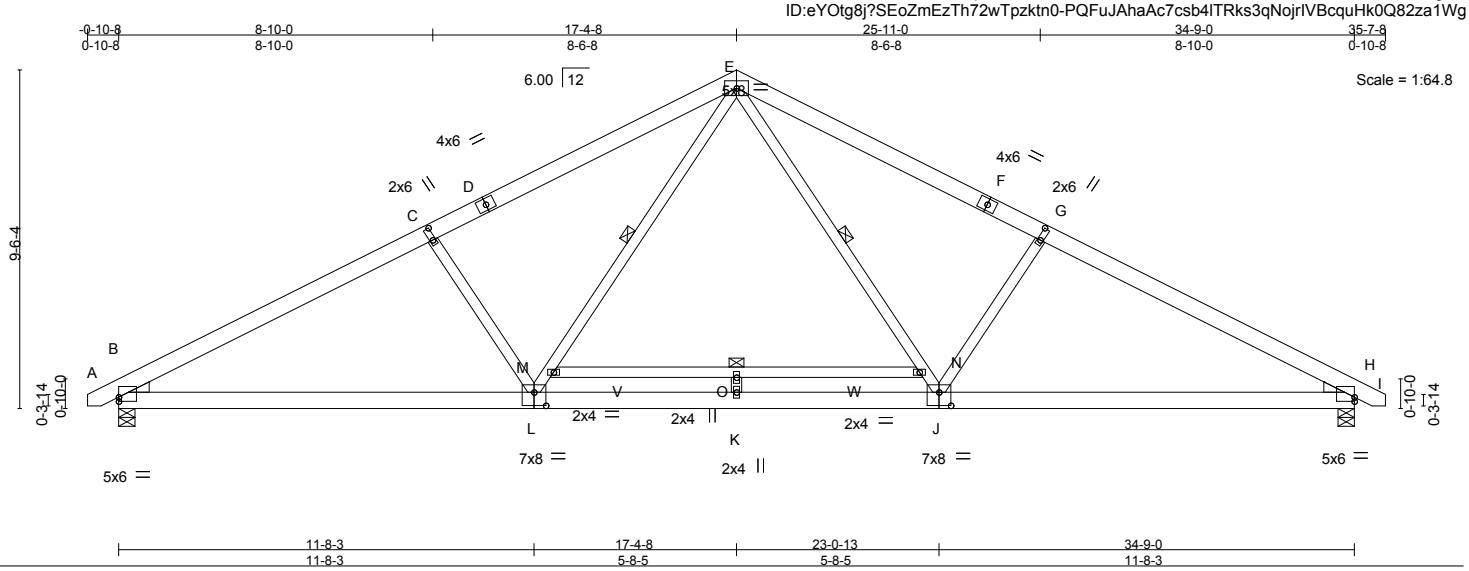


Plate Offsets (X,Y)-- [B:0-0-0,0-1-7], [C:0-4-4,0-1-0], [G:0-4-4,0-1-0], [H:0-0-0,0-1-7], [J:0-4-0,0-4-8], [L:0-4-0,0-4-8]

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	0.66	Vert(LL)	-0.30	K	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(TL)	-0.50	K	>841	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.48	Horz(TL)	0.08	H	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.17	K	>999	240	Weight: 241 lb	FT = 20%

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

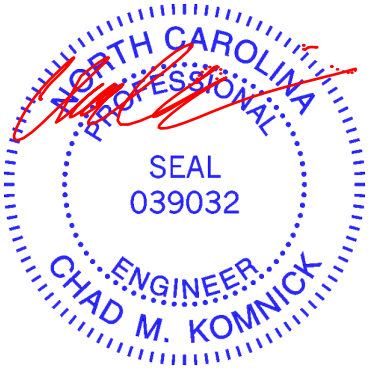
BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt E-J, E-L, M-N

REACTIONS. (lb/size) B=1431/0-5-8, H=1431/0-5-8
Max Horz B=255(LC 8)
Max Uplift B=-1023(LC 8), H=-1023(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2333/2138, C-D=-2060/2057, D-E=-1943/2099, E-F=-1943/2099, F-G=-2060/2057, G-H=-2333/2138
BOT CHORD B-L=-1648/1983, K-L=-910/1433, J-K=-910/1433, H-J=-1650/1983
WEBS E-N=-687/861, J-N=-645/757, G-J=-487/849, L-M=-645/757, E-M=-687/861, C-L=-487/849

NOTES-
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=1023, H=1023.
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.

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, P-S=-20



March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29310956
807186_MASTER	A18A	COMMON	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:13:56 2017 Page 1
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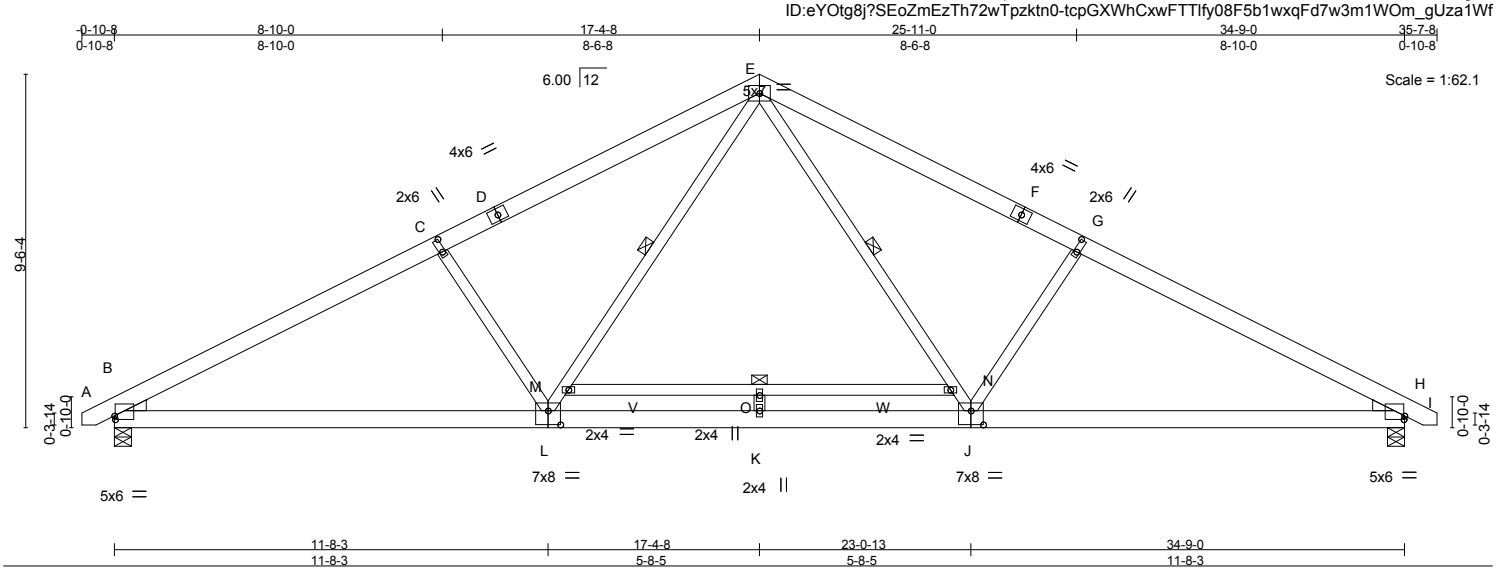

Plate Offsets (X,Y)-- [B:0-0-4,0-1-3], [C:0-4-4,0-1-0], [G:0-4-4,0-1-0], [H:0-0-4,0-1-3], [J:0-4-0,0-4-8], [L:0-4-0,0-4-8]

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	0.83	Vert(LL)	-0.31	K	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(TL)	-0.51	K	>822	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.50	Horz(TL)	0.08	H	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.18	K	>999	240	Weight: 241 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-7-5 oc bracing.
WEBS 1 Row at midpt E-J, E-L, M-N

REACTIONS. (lb/size) B=1476/0-5-8, H=1476/0-5-8
Max Horz B=263(LC 8)
Max Uplift B=-1055(LC 8), H=-1055(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2412/2213, C-D=-2129/2127, D-E=-2002/2171, E-F=-2002/2171, F-G=-2129/2127, G-H=-2412/2213
BOT CHORD B-L=-1710/2052, K-L=-927/1471, J-K=-927/1471, H-J=-1712/2052
WEBS E-N=-731/891, J-N=-686/784, G-J=-513/900, L-M=-686/784, E-M=-731/891, C-L=-513/900

NOTES-
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=1055, H=1055.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

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-I=-62, P-S=-21

March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29310957
807186_MASTER	A19	COMMON	9	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:13:57 2017 Page 1
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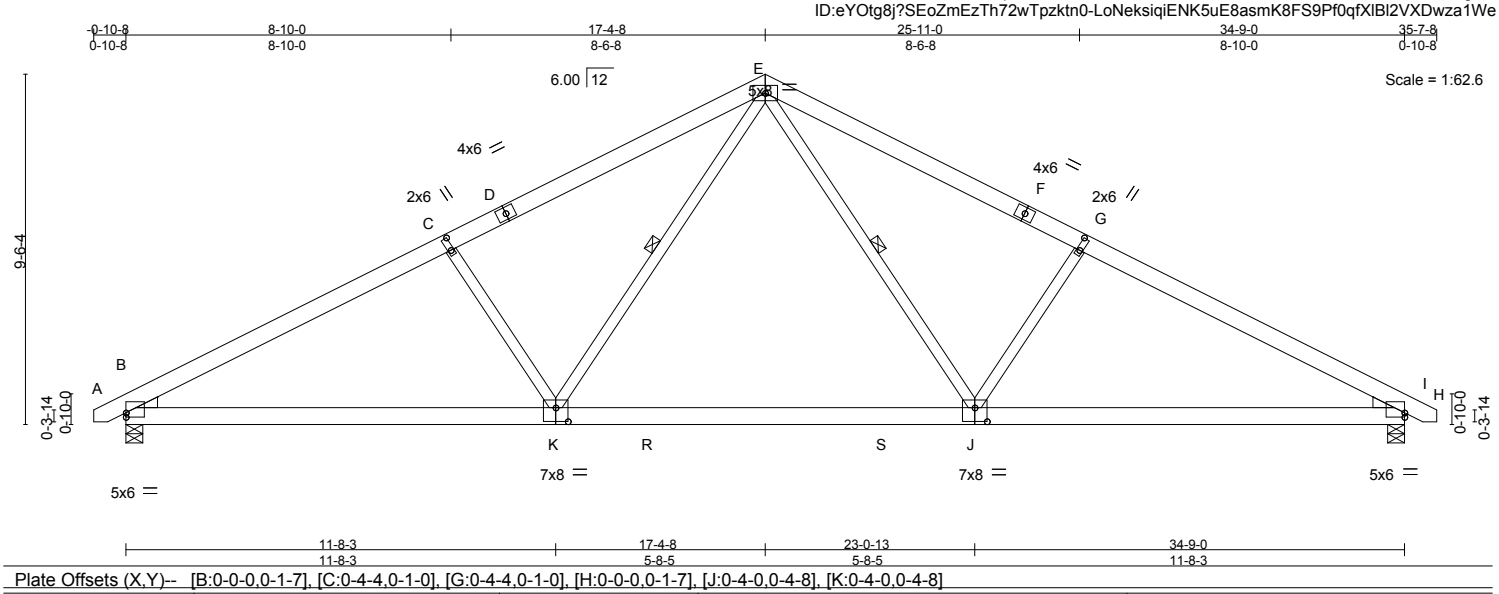

Plate Offsets (X,Y)-- [B:0-0-0,0-1-7], [C:0-4-4,0-1-0], [G:0-4-4,0-1-0], [H:0-0-0,0-1-7], [J:0-4-0,0-4-8], [K:0-4-0,0-4-8]

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	0.58	Vert(LL)	-0.26	J-K	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(TL)	-0.46	J-K	>899	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.39	Horz(TL)	0.07	H	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.17	J-K	>999	240	Weight: 225 lb	FT = 20%

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

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

REACTIONS. (lb/size) B=1431/0-5-8, H=1431/0-5-8
Max Horz B=255(LC 8)
Max Uplift B=-1023(LC 8), H=-1023(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2334/2138, C-D=-2062/2057, D-E=-1944/2099, E-F=-1944/2099, F-G=-2062/2057, G-H=-2334/2138
BOT CHORD B-K=-1648/1984, K-R=-832/1353, R-S=-832/1353, J-S=-832/1353, H-J=-1650/1984
WEBS E-J=-683/787, G-J=-487/849, E-K=-683/787, C-K=-487/849

NOTES-
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) B=1023, H=1023.
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.

March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29310958
807186_MASTER	A20	ROOF SPECIAL	8	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:13:58 2017 Page 1
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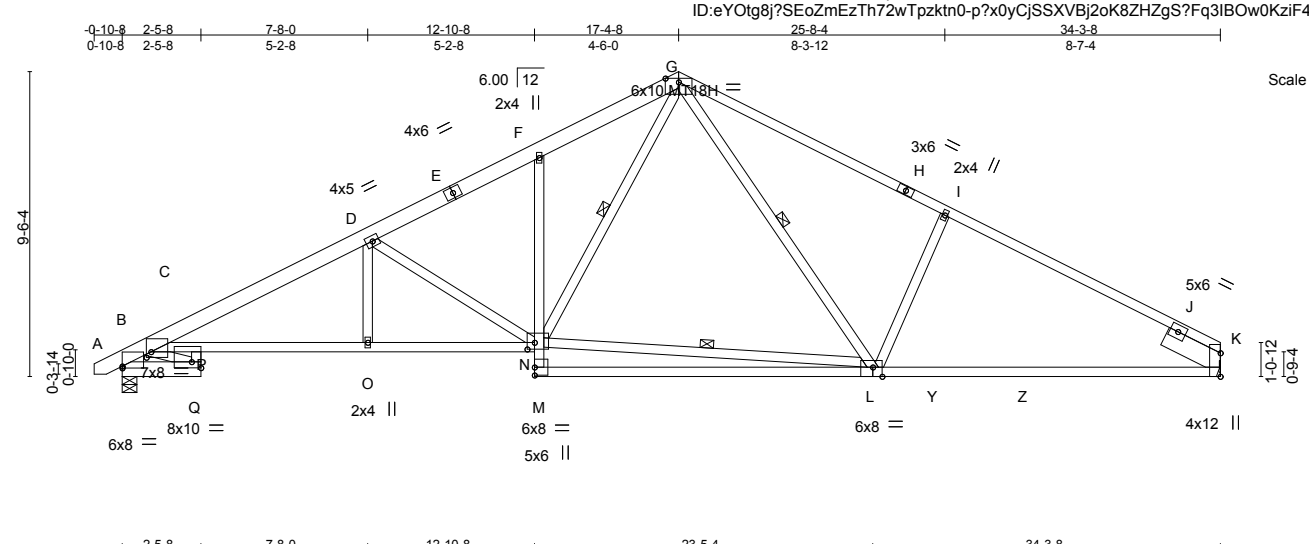

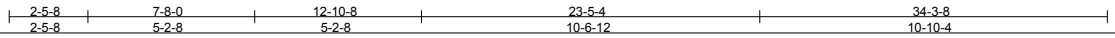

Plate Offsets (X,Y)-- [B:0-0-0,0-0-11], [C:0-1-12,0-2-2], [K:Edge,0-0-0], [L:0-3-8,Edge], [N:0-2-12,0-2-8], [P:Edge,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.29	L-M	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(TL)	-0.85	L-M	>483	240	MT18H	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.64	Horz(TL)	0.29	K	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.41	O-P	>999	240	Weight: 216 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
G-H: 2x4 SP No.2, H-K: 2x4 SP SS
BOT CHORD 2x4 SP No.2 *Except*
B-Q: 2x6 SP No.2, C-N,K-L: 2x4 SP No.1
WEBS 2x4 SP No.3
SLIDER Right 2x8 SP DSS 1-11-12

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

REACTIONS. (lb/size) B=1413/0-5-8, K=1371/Mechanical
Max Horz B=293(LC 8)
Max Uplift B=-1012(LC 8), K=-930(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1093/1201, C-D=-2793/2503, D-E=-2098/2017, E-F=-1996/2042, F-G=-2010/2220, G-H=-1830/2041, H-I=-1938/2001, I-J=-2118/1971, J-K=-572/186
BOT CHORD B-Q=-719/534, C-P=-2102/2485, O-P=-2102/2485, N-O=-2102/2485, F-N=-226/371, L-M=-110/390, L-Y=-1510/1791, Y-Z=-1510/1791, K-Z=-1510/1791
WEBS L-N=-760/995, G-N=-936/942, G-L=-584/613, I-L=-400/770, P-Q=-343/294, C-Q=-580/780, D-N=-836/941, D-O=-31/328

NOTES-
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) 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) B=1012, K=930.
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.

March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29310959
807186_MASTER	A21	HIP	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:13:59 2017 Page 1
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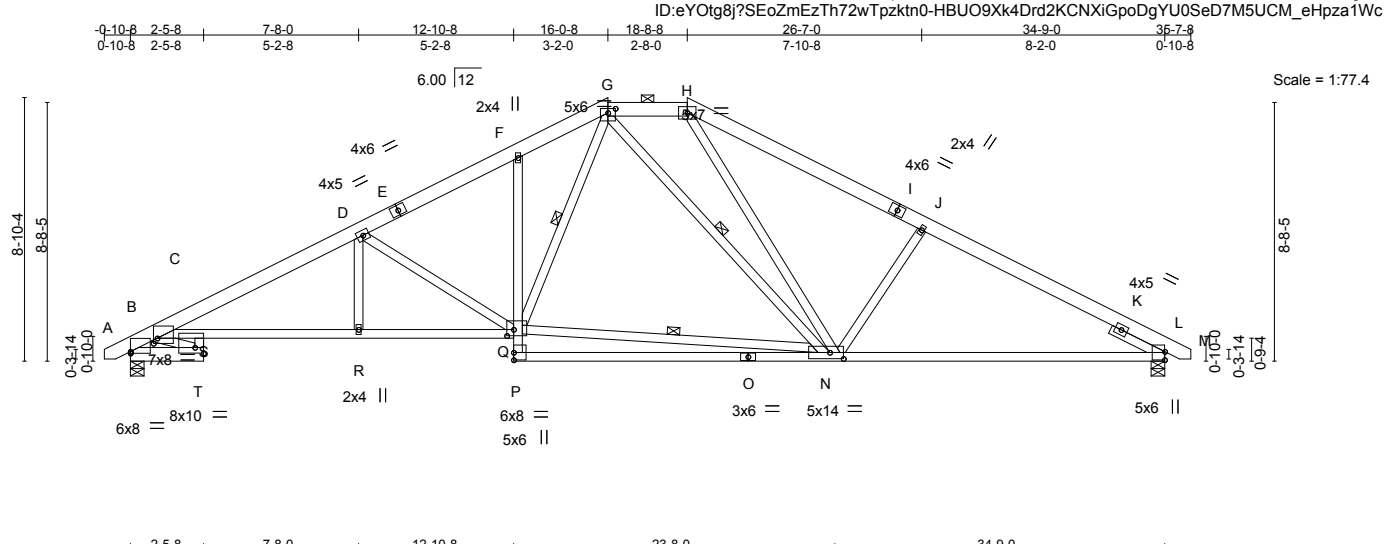

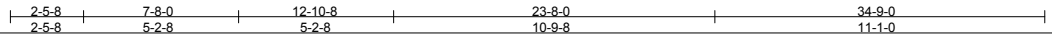

Plate Offsets (X,Y)-- [B:0-0-0,0-0-11], [C:0-1-8,0-2-2], [G:0-3-0,0-1-12], [L:0-3-6,0-0-1], [N:0-5-8,0-2-8], [Q:0-2-12,0-2-8], [S:Edge,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.25	N-P	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(TL)	-0.71	N-P	>586	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(TL)	0.23	L	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.38	R-S	>999	240	Weight: 244 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
B-T: 2x6 SP No.2, F-P,O-P: 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Right 2x4 SP No.3 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-9-8 max.): G-H.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt N-Q, G-Q, G-N

REACTIONS. (lb/size) B=1431/0-5-8, L=1431/0-5-8
Max Horz B=235(LC 8)
Max Uplift B=-1009(LC 8), L=-1009(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1110/1249, C-D=-2836/2502, D-E=-2141/2027, E-F=-2106/2052, F-G=-2030/2192, G-H=-1484/1785, H-I=-1934/2022, I-J=-2042/1987, J-K=-2284/2112, K-L=-1073/684
BOT CHORD B-T=-690/544, C-S=-2039/2524, R-S=-2039/2524, Q-R=-2039/2524, F-Q=-132/315, O-P=-106/386, N-O=-106/386, L-N=-1631/1963
WEBS D-R=-28/330, D-Q=-834/922, N-Q=-842/1159, G-Q=-828/832, G-N=-258/192, H-N=-391/602, J-N=-403/747, S-T=-328/298, C-T=-590/748

NOTES-
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=1009, L=1009.
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.

March 20,2017

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	A22	HIP	1	1	I29310960
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:13:59 2017 Page 1
ID:eYOtg8j?SEoZmEzTh72wTpzktn0-HBUO9Xk4Drd2KCNXiGpoDgYWKSj87UXUCM_eHpza1Wc

0-10-8	6-10-0	13-4-8	21-4-8	27-11-0	34-9-0	35-7-8
0-10-8	6-10-0	6-6-8	8-0-0	6-6-8	6-10-0	0-10-8

Scale = 1:65.2

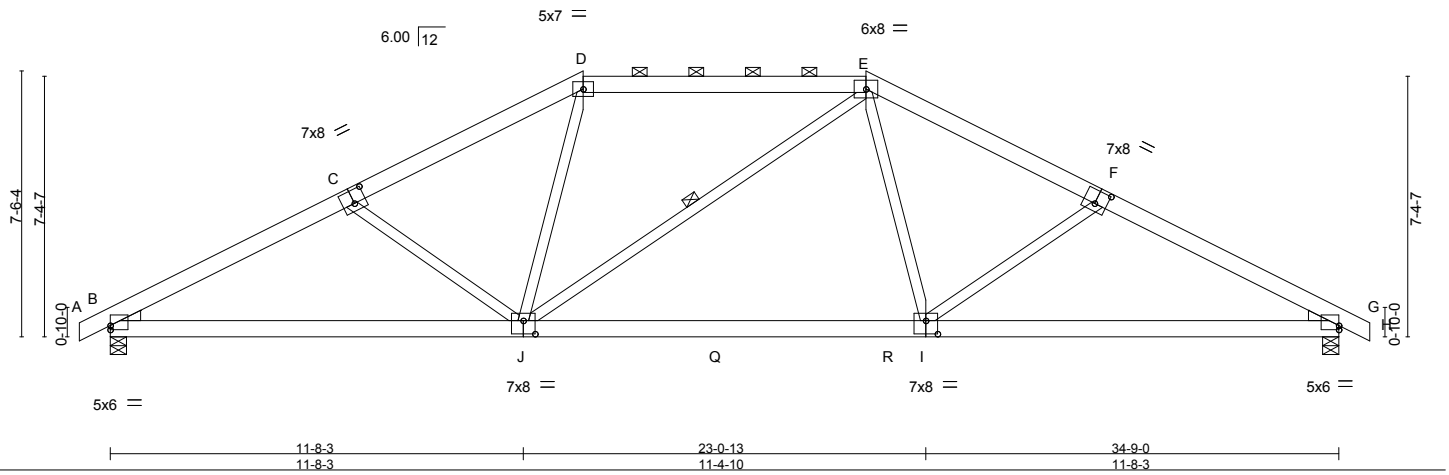

Plate Offsets (X,Y)-- [B:0-0-0,0-1-7], [C:0-4-0,0-4-8], [F:0-4-0,0-4-8], [G:Edge,0-1-7], [I:0-4-0,0-4-8], [J:0-4-0,0-4-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.20	I-J	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(TL)	-0.40	I-J	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.24	Horz(TL)	0.08	G	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.17	I-J	>999	240	Weight: 232 lb	FT = 20%

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

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

REACTIONS. (lb/size) B=1443/0-5-8, G=1443/0-5-8
Max Horz B=-207(LC 9)
Max Uplift B=-998(LC 8), G=-998(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2367/2144, C-D=-2055/1899, D-E=-1677/1790, E-F=-2054/1900, F-G=-2367/2144
BOT CHORD B-J=-1674/2023, J-Q=-1119/1676, Q-R=-1119/1676, I-R=-1119/1676, G-I=-1678/2023
WEBS C-J=-324/633, D-J=-245/538, E-I=-245/539, F-I=-325/633

NOTES-
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=998, G=998.
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.

March 20,2017

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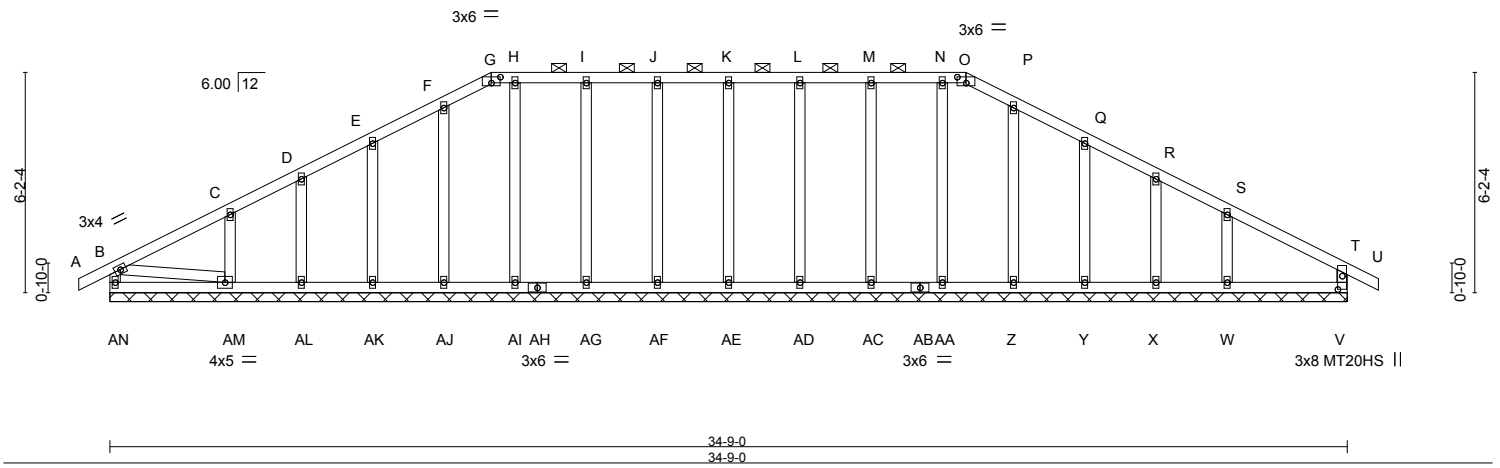
Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	A23	GABLE	1	1	I29310961
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:00 2017 Page 1
ID:eYOtg8j?SEoZmEzTh72wTpzktn0-IN2nNtkj_9lvyMyjF_K1mt4n7sBHszxdR0kBpFza1Wb

-0-10-8 0-10-8 | 10-8-8 10-8-8 | 24-0-8 13-4-0 | 34-9-0 10-8-8 | 35-7-8 0-10-8

Scale = 1:64.7



34-9-0
34-9-0

Plate Offsets (X,Y)-- [G:0-3-0,0-2-0], [O:0-3-0,0-2-0], [V:0-4-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	0.00	T	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	0.00	U	n/r	120	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(TL)	0.01	V	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix)							Weight: 216 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
B-AM: 2x4 SP No.3
OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 34-9-0.
(lb) - Max Horz AN=184(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) AI, AA, Z except AN=-146(LC 9), V=-169(LC 9), AE=-127(LC 6), AF=-124(LC 7), AG=-146(LC 6), AJ=-115(LC 8), AK=-189(LC 8), AL=-143(LC 8), AM=-283(LC 8), AD=-124(LC 7), AC=-143(LC 6), Y=-199(LC 9), X=-119(LC 9), W=-294(LC 9)
Max Grav All reactions 250 lb or less at joint(s) AN, V, AE, AF, AG, AI, AJ, AK, AL, AM, AD, AC, AA, Z, Y, X, W

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-AN=-170/261, D-E=-54/270, E-F=-56/366, F-G=-54/436, G-H=-25/430, H-I=-25/430, I-J=-25/430, J-K=-25/430, K-L=-25/430, L-M=-25/430, M-N=-25/430, N-O=-25/430, O-P=-54/436, P-Q=-56/367, T-V=-171/252
WEBS C-AM=-167/305, S-W=-172/345

NOTES-
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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) AI, AA, Z except (jt=lb) AN=146, V=169, AE=127, AF=124, AG=146, AJ=115, AK=189, AL=143, AM=283, AD=124, AC=143, Y=199, X=119, W=294.
14) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

March 20,2017

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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	A24	Half Hip Girder	1	2	I29310962
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:02 2017 Page 1
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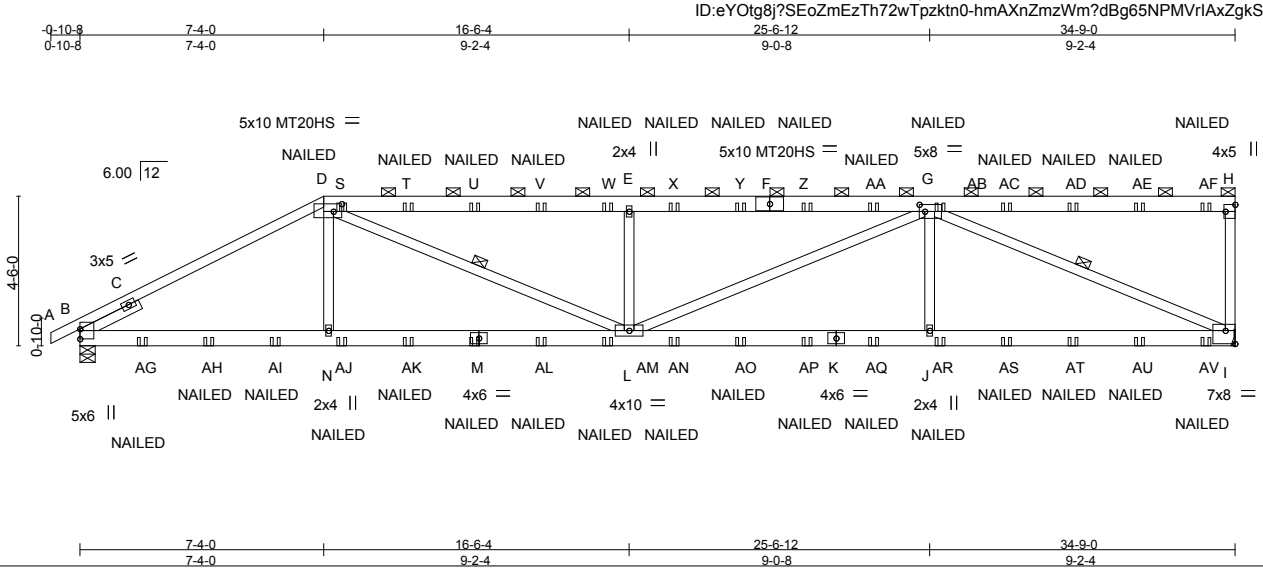


Plate Offsets (X,Y)-- [D:0-3-0,0-2-12], [G:0-2-0,0-2-8], [H:Edge,0-3-8], [I:Edge,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.12	J-L	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(TL)	-0.30	L-N	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.61	Horz(TL)	-0.10	I	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-M)		Wind(LL)	0.47	L-N	>885	240	Weight: 451 lb	FT = 20%

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

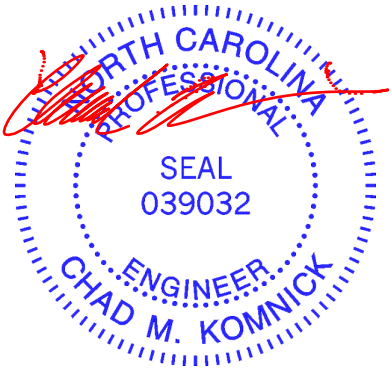
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): D-H.
BOT CHORD Rigid ceiling directly applied or 6-7-13 oc bracing.
WEBS 1 Row at midpt D-L, G-I

REACTIONS. (lb/size) I=1954/Mechanical, B=2005/0-5-8
Max Horz B=368(LC 17)
Max Uplift I=-3209(LC 7), B=-2778(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1676/2587, C-D=-3194/4753, D-S=-4319/7007, S-T=-4320/7008, T-U=-4321/7009, U-V=-4322/7010, V-W=-4324/7011, E-W=-4324/7012, E-X=-4321/7005, X-Y=-4321/7005, F-Y=-4321/7005, F-Z=-4321/7005, Z-AA=-4321/7005, G-AA=-4321/7005, H-I=-340/627
BOT CHORD B-AG=-4308/2781, AG-AH=-4308/2781, AH-AI=-4308/2781, N-AI=-4308/2781, N-AJ=-4315/2790, AJ-AK=-4315/2790, M-AK=-4315/2790, M-AL=-4315/2790, AL-AM=-4315/2790, L-AM=-4315/2790, L-AN=-5524/3386, AN-AO=-5524/3386, AO-AP=-5524/3386, K-AP=-5524/3386, K-AQ=-5524/3386, J-AQ=-5524/3386, J-AR=-5524/3386, AR-AS=-5524/3386, AS-AT=-5524/3386, AT-AU=-5524/3386, AU-AV=-5524/3386, I-AV=-5524/3386
WEBS D-N=-263/400, D-L=-3073/1782, E-L=-848/1560, G-L=-1623/1024, G-J=-299/563, G-I=-3643/5941

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) I=3209 , B=2778.
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.

Continued on page 2



March 20,2017

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NOTES-

14) "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.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-D=-60, D-H=-60, I-O=-20
   Concentrated Loads (lb)
   Vert: M=-18(F) S=-46(F) T=-46(F) U=-46(F) V=-46(F) W=-46(F) X=-46(F) Y=-46(F) Z=-46(F) AA=-46(F) AB=-46(F) AC=-46(F) AD=-46(F) AE=-46(F) AF=-54(F) AG=-123(F) AH=-39(F) AI=-78(F) AJ=-18(F) AK=-18(F) AL=-18(F) AM=-18(F) AN=-18(F) AO=-18(F) AP=-18(F) AQ=-18(F) AR=-18(F) AS=-18(F) AT=-18(F) AU=-18(F) AV=-21(F)

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	A25	HIP	1	1	I29310963
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:03 2017 Page 1
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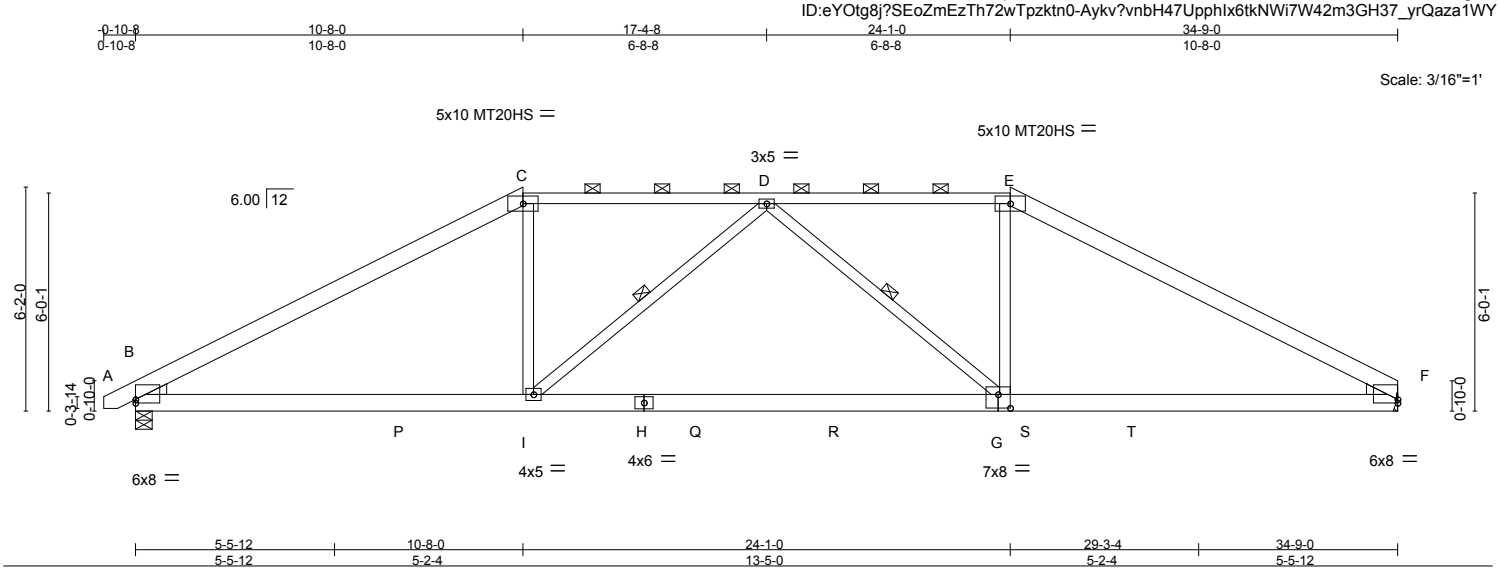


Plate Offsets (X,Y)-- [B:Edge,0-1-3], [F:0-0-0,0-1-3], [G:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.20	G-I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(TL)	-0.51	G-I	>818	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.26	Horz(TL)	0.08	F	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.20	G-L	>999	240	Weight: 202 lb	FT = 20%

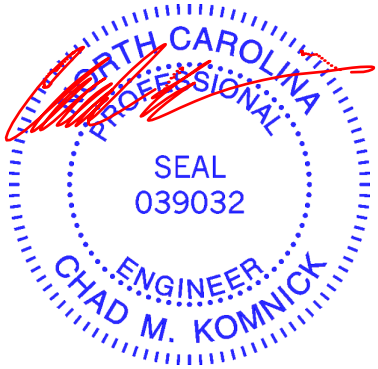
LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
C-E: 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-9-2 max.): C-E.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt D-I, D-G

REACTIONS. (lb/size) F=1390/Mechanical, B=1432/0-5-8
Max Horz B=181(LC 8)
Max Uplift F=-860(LC 9), B=-936(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2325/1857, C-D=-1984/1874, D-E=-1996/1880, E-F=-2317/1859
BOT CHORD B-P=-1364/1969, I-P=-1364/1969, H-I=-1643/2182, H-Q=-1643/2182, Q-R=-1643/2182, G-R=-1643/2182, G-S=-1366/1962, S-T=-1366/1962, F-T=-1366/1962
WEBS C-I=-168/620, D-I=-444/513, D-G=-429/508, E-G=-169/616

NOTES-
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 MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) F=860, B=936.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29310964
807186_MASTER	A26	Hip	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:03 2017 Page 1
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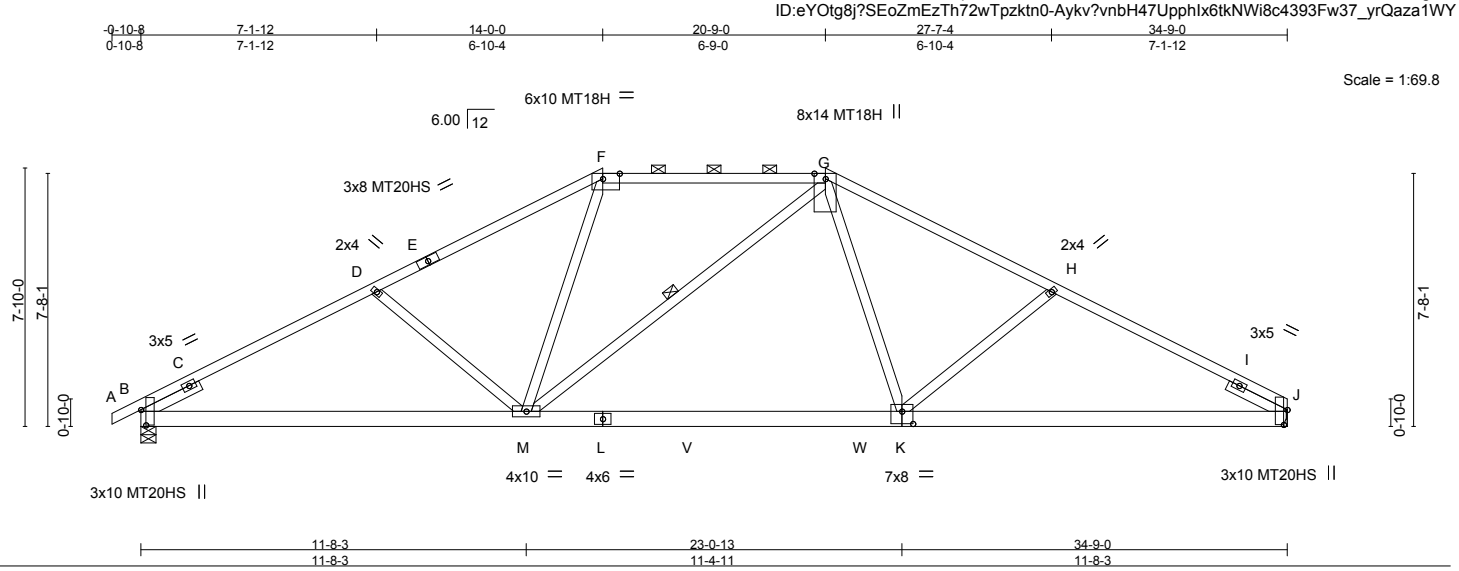


Plate Offsets (X,Y)-- [B:0-5-9,0-1-13], [F:0-6-2,Edge], [G:0-1-15,Edge], [J:0-5-7,0-1-5], [K:0-4-0,0-4-8]

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	0.79	Vert(LL)	-0.26	K-M	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(TL)	-0.51	K-M	>822	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.34	Horz(TL)	0.08	J	n/a	n/a	MT18H	244/190
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.23	K-M	>999	240	Weight: 202 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-9-10 max.): F-G.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt G-M

REACTIONS. (lb/size) J=1389/Mechanical, B=1443/0-5-8
Max Horz B=236(LC 8)
Max Uplift J=-909(LC 9), B=-1006(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-953/262, C-D=-2298/2122, D-E=-2022/1868, E-F=-1927/1899, F-G=-1594/1754, G-H=-2021/1897, H-I=-2303/2129, I-J=-989/289
BOT CHORD B-M=-1690/1987, L-M=-1093/1597, L-V=-1093/1597, V-W=-1093/1597, K-W=-1093/1597, J-K=-1697/1994
WEBS D-M=-344/670, F-M=-300/552, G-K=-297/552, H-K=-351/675

NOTES-
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 MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) J=909, B=1006.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

March 20,2017

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

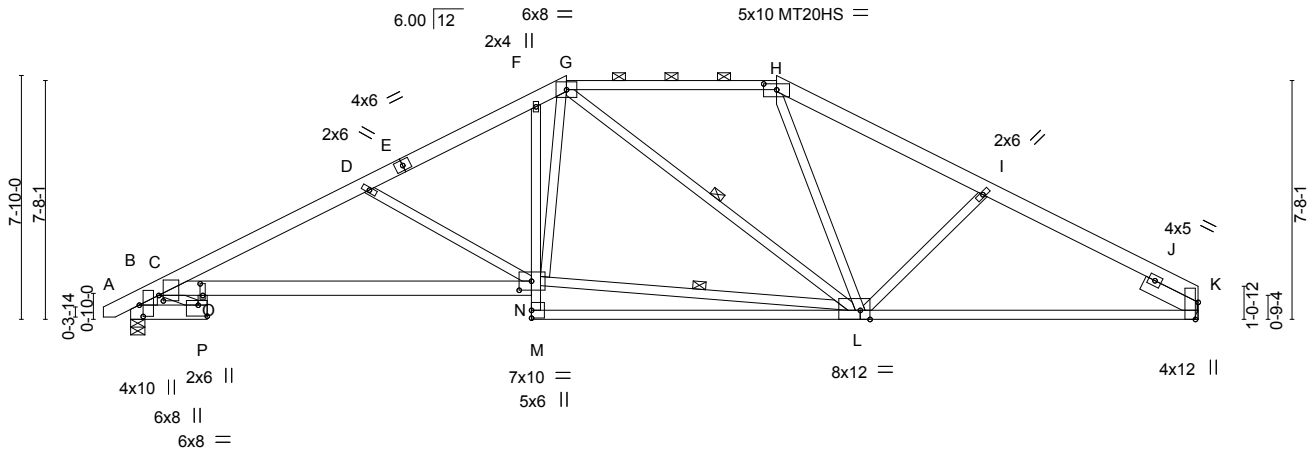
Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	A27	HIP	1	1	I29310965
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 e Apr 22 2016 MiTek Industries, Inc. Mon Mar 20 11:54:30 2017 Page 1

ID:eYOtg8j?SEoZmEzTh72wTpzktn0-wkMlPnhlNWRAK202?yCrCWpu_8aXEYnVXJLWt6zZ3P7

-0-10-8	2-5-8	7-8-0	12-10-8	14-0-0	20-9-0	27-4-8	34-3-8
0-10-8	2-5-8	5-2-8	5-2-8	1-1-8	6-9-0	6-7-8	6-11-0

Scale = 1:74.0



2-5-8	12-10-8	23-5-4	34-3-8
2-5-8	10-5-0	10-6-12	10-10-4

Plate Offsets (X,Y)-- [B:0-4-6,0-1-8], [C:0-2-2,0-1-12], [H:0-5-0,0-2-4], [K:0-6-10,Edge], [L:0-3-12,Edge], [N:0-4-12,0-3-8], [O:0-4-8,0-1-0], [P:Edge,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.27	L-M	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(TL)	-0.76	L-M	>541	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.68	Horz(TL)	0.25	K	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.47	N-O	>882	240	Weight: 238 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
G-H: 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
F-M,L-M: 2x4 SP No.2, K-L: 2x4 SP No.1
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3
SLIDER Right 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-0-13 max.): G-H. [PSA]
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt L-N, G-L

REACTIONS. (lb/size) K=1371/Mechanical, B=1413/0-5-8 (min. 0-1-11)
Max Horz B=239(LC 8)
Max Uplift K=-892(LC 9), B=-975(LC 8)

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

TOP CHORD B-C=-1474/1492, C-D=-2714/2474, D-E=-2176/1985, E-F=-2141/2012, F-G=-1909/2007, G-H=-1533/1711, H-I=-1922/1842, I-J=-2155/1986, J-K=-560/38
BOT CHORD B-P=-1012/938, C-O=-2208/2596, N-O=-2069/2437, F-N=-130/301, K-L=-1547/1824
WEBS D-N=-684/904, L-N=-1149/1632, G-N=-490/518, G-L=-418/276, H-L=-262/519, O-P=-1038/1014, C-P=-1276/1378, I-L=-241/548

NOTES-

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) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 892 lb uplift at joint K and 975 lb uplift at joint B.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	A28	HIP	1	1	I29310966

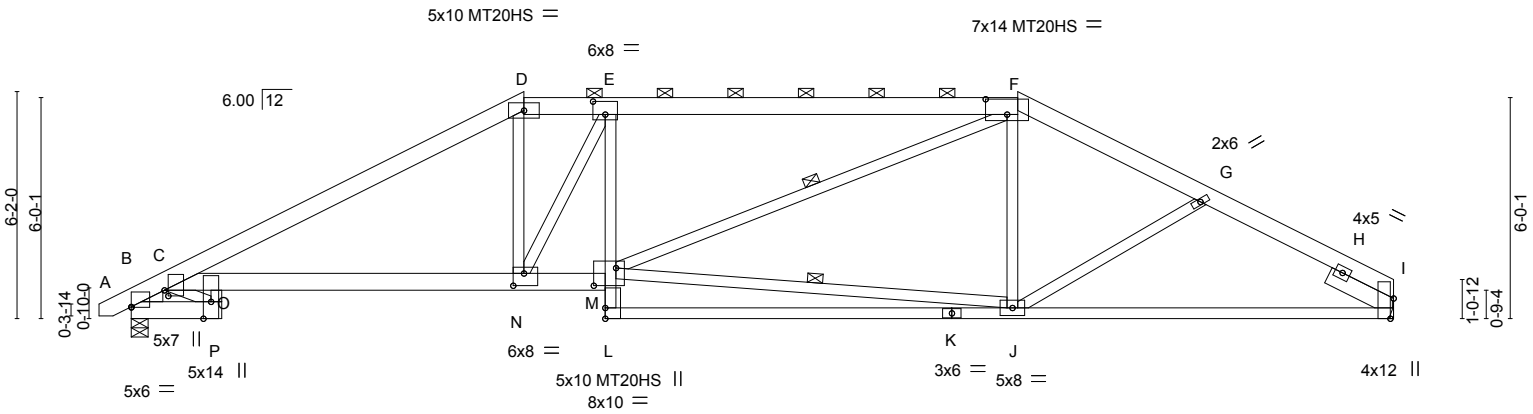
Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Apr 22 2016 MiTek Industries, Inc. Mon Mar 20 11:30:16 2017 Page 1

ID:eYOtg8j?SEoZmEzTh72wTpzktn0-V0V4Fc5iomFUubscqb6tGvaQx1KkZxNUA58ZqNzZ3lr

-0-10-8	2-5-8	10-8-0	12-10-8	24-1-0	29-0-8	34-3-8
0-10-8	2-5-8	8-2-8	2-2-8	11-2-8	4-11-8	5-3-0

Scale = 1:62.6



2-5-8	10-8-0	12-10-8	24-1-0	34-3-8
2-5-8	8-2-8	2-2-8	11-2-8	10-2-8

Plate Offsets (X,Y)-- [B:Edge,0-0-3], [C:0-1-14,0-1-4], [E:0-4-0,0-4-4], [F:0-7-0,0-5-0], [I:0-6-9,Edge], [M:0-7-4,0-5-12], [N:0-3-8,0-4-0]

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	0.82	Vert(LL)	-0.34	J-L	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(TL)	-0.94	J-L	>438	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(TL)	0.23	I	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.44	N-O	>942	240	Weight: 233 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B-P: 2x6 SP No.2, C-M: 2x6 SP No.1, I-K: 2x4 SP No.1
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3
SLIDER Right 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-3-5 max.): D-F.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt J-M, F-M

REACTIONS. (lb/size) I=1371/Mechanical, B=1413/0-5-8 (min. 0-1-11)
Max Horz B=194(LC 8)
Max Uplift I=-843(LC 9), B=-927(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1726/1656, C-D=-2617/2218, D-E=-2269/2195, E-F=-2483/2385, F-G=-2040/1833, G-H=-2113/1904, H-I=-454/66
BOT CHORD B-P=-1262/1256, C-O=-1878/2460, N-O=-1729/2290, M-N=-1859/2439, E-M=-175/273, K-L=-169/517, J-K=-169/517, I-J=-1483/1770
WEBS D-N=-623/863, E-N=-655/779, J-M=-1160/1379, F-M=-670/808, F-J=-27/323, G-J=-196/274, O-P=-1157/1196, C-P=-1710/1718

NOTES-

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 MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 843 lb uplift at joint I and 927 lb uplift at joint B.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	A29	HIP GIRDER	1	2	I29310967
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 e Apr 22 2016 MiTek Industries, Inc. Mon Mar 20 11:36:53 2017 Page 1

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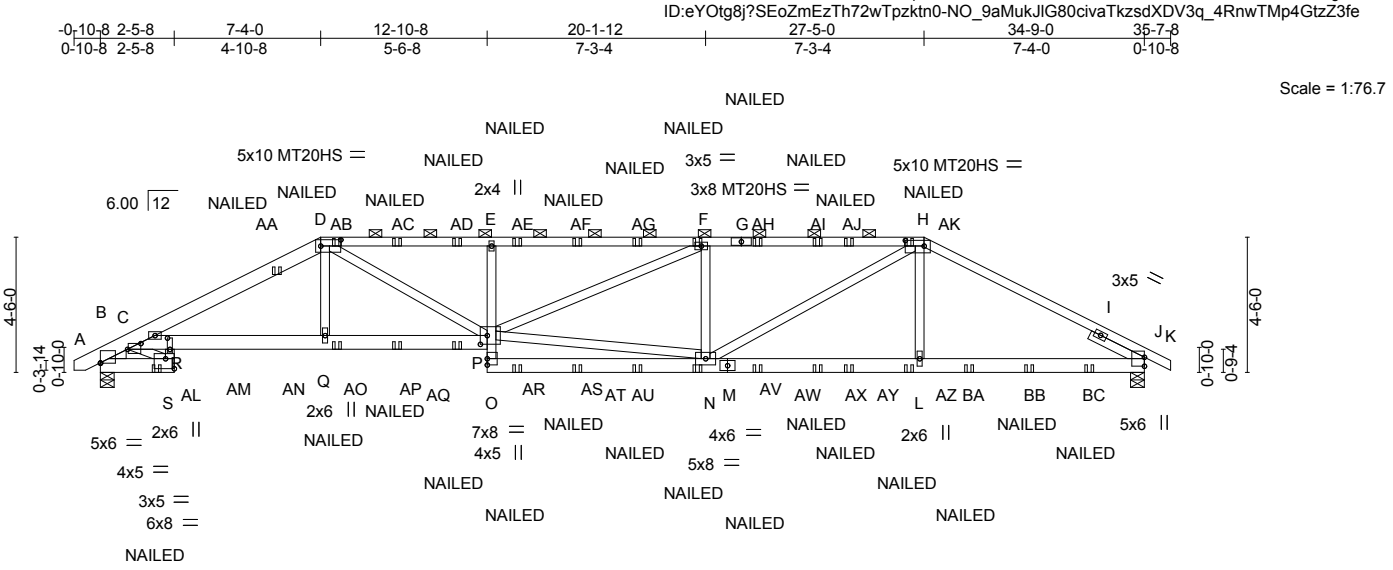

2-5-8 7-4-0 12-10-8 20-1-12 27-5-0 34-9-0

Plate Offsets (X,Y)-- [B:Edge,0-0-3], [C:0-5-5,0-2-5], [D:0-8-0,0-2-8], [H:0-7-8,0-2-4], [P:0-2-12,0-3-8], [R:0-4-8,0-1-0], [S:Edge,0-4-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.15	P	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(TL)	-0.38	E	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.95	Horz(TL)	-0.22	J	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.56	E	>751	240	Weight: 439 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 *Except*
A-D: 2x6 SP No.2, H-K: 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
E-O: 2x4 SP No.2
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3
SLIDER Right 2x4 SP No.2 1-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-12 oc purlins, except 2-0-0 oc purlins (5-7-6 max.): D-H. [PSA]
BOT CHORD Rigid ceiling directly applied or 5-11-15 oc bracing.

REACTIONS. (lb/size) B=2041/0-5-8 (min. 0-1-8), J=2045/0-5-8 (min. 0-1-8)
Max Horz B=-128(LC 7)
Max Uplift B=-2770(LC 6), J=-2850(LC 7)

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

TOP CHORD B-C=-2467/3386, C-AA=-4073/5823, D-AA=-3961/5840, D-AB=-4775/7369, AB-AC=-4775/7369, AC-AD=-4775/7369, E-AD=-4775/7369, E-AE=-4725/7276, AE-AF=-4725/7276, AF-AG=-4725/7276, F-AG=-4725/7276, F-G=-4155/6513, G-AH=-4155/6513, AH-AI=-4155/6513, AI-AJ=-4155/6513, AJ-AK=-4155/6513, H-AK=-4155/6513, H-I=-3245/4765, I-J=-1741/2697

BOT CHORD B-AL=-2511/1785, S-AL=-2511/1785, C-AM=-5531/3851, R-AM=-5531/3851, R-AN=-5221/3610, AN-AO=-5221/3610, Q-AO=-5221/3610, Q-AP=-5249/3637, AP-AQ=-5249/3637, AQ-AR=-5249/3637, P-AR=-5249/3637, E-P=-556/1095, O-AS=-1481/961, AS-AT=-1481/961, AT-AU=-1481/961, AU-AV=-1481/961, N-AV=-1481/961, M-N=-4085/2831, M-AW=-4085/2831, AW-AX=-4085/2831, AX-AY=-4085/2831, AY-AZ=-4085/2831, L-AZ=-4085/2831, L-BA=-4078/2824, BA-BB=-4078/2824, BB-BC=-4078/2824, J-BC=-4078/2824

WEBS D-Q=-668/618, D-P=-2456/1408, N-P=-4951/3246, F-P=-829/619, F-N=-948/1628, H-N=-2693/1622, H-L=-240/335, R-S=-2461/1781, C-S=-2430/3418

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.

Continued on page 2

NORTH CAROLINA PROFESSIONAL SEAL 039032 ENGINEER CHAD M. KOMNICK

March 20,2017

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

NOTES-

9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2770 lb uplift at joint B and 2850 lb uplift at joint J.
11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) "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.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 103 lb up at 3-10-8, and 72 lb down and 174 lb up at 5-10-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-D=-60, D-H=-60, H-K=-60, S-T=-20, P-R=-20, O-W=-20
   Concentrated Loads (lb)
   Vert: F=-46(B) AA=-2(B) AB=-67(B) AC=-67(B) AD=-67(B) AE=-46(B) AF=-46(B) AG=-46(B) AH=-46(B) AI=-46(B) AJ=-46(B) AK=-46(B) AL=-123(B) AN=-66 AO=-72 AS=-18(B) AT=-18(B) AU=-18(B) AV=-18(B) AW=-18(B) AX=-18(B) AY=-18(B) AZ=-18(B) BA=-76(B) BB=-39(B) BC=-126(B)

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	B01	ATTIC	1	1	I29310968
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:07 2017 Page 1
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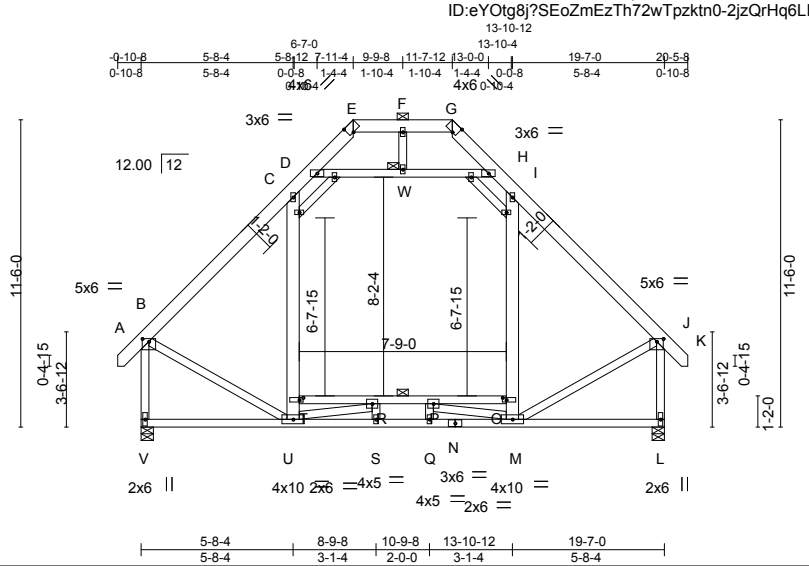


Plate Offsets (X,Y)-- [B:0-3-0,0-1-4], [E:0-2-2,Edge], [G:0-2-2,Edge], [J:0-3-0,0-1-4], [O:0-1-12,0-1-0], [T:0-1-12,0-1-0]

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	0.60	Vert(LL)	-0.07	R-T	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(TL)	-0.14	R-T	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(TL)	0.03	L	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.29	U	>801	240	Weight: 204 lb	FT = 20%

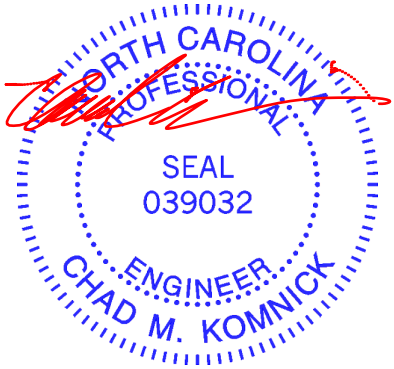
LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
X-Y,Z-AA: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
C-U,I-M: 2x6 SP No.2, D-H: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): E-G.
BOT CHORD Rigid ceiling directly applied. Except:
5-10-0 oc bracing: O-T
JOINTS 1 Brace at Jt(s): W

REACTIONS. (lb/size) V=1069/0-5-8, L=1069/0-5-8
Max Horz V=-835(LC 6)
Max Uplift V=-352(LC 8), L=-352(LC 9)
Max Grav V=1210(LC 2), L=1210(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-976/442, C-D=-613/570, D-E=-231/322, G-H=-231/321, H-I=-613/571, I-J=-976/442, B-V=-1165/545, J-L=-1165/547
BOT CHORD U-V=-805/818, S-U=-75/1555, Q-S=-75/1555, N-Q=-75/1555, M-N=-75/1555, R-T=-735/804, P-R=-1016/0, O-P=-775/844
WEBS T-U=-116/288, C-T=-31/365, M-O=-119/291, I-O=-31/365, D-W=-579/656, H-W=-579/656, B-U=-264/683, J-M=-270/683, R-U=-1169/593, M-P=-1169/547

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) 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) 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) Ceiling dead load (5.0 psf) on member(s). C-D, H-I, D-W, H-W; Wall dead load (5.0psf) on member(s).C-T, I-O
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. R-T, P-R, O-P
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) V=352, L=352.
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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Attic room checked for L/360 deflection.
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.



March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	B02	ATTIC	6	1	I29310969
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:08 2017 Page 1
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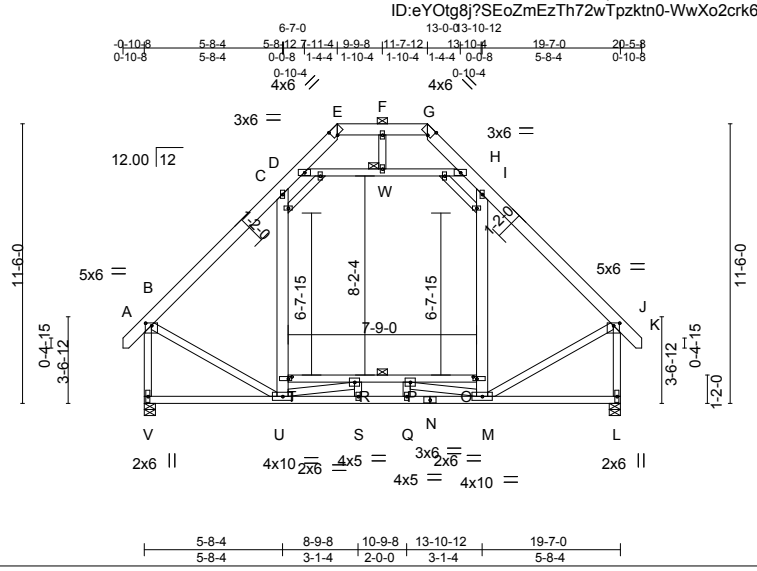


Plate Offsets (X,Y)-- [B:0-3-0,0-1-4], [E:0-2-2,Edge], [G:0-2-2,Edge], [J:0-3-0,0-1-4], [O:0-1-12,0-1-0], [T:0-1-12,0-1-0]

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	0.60	Vert(LL)	-0.07	R-T	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(TL)	-0.14	R-T	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(TL)	0.03	L	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.29	U	>801	240	Weight: 204 lb	FT = 20%

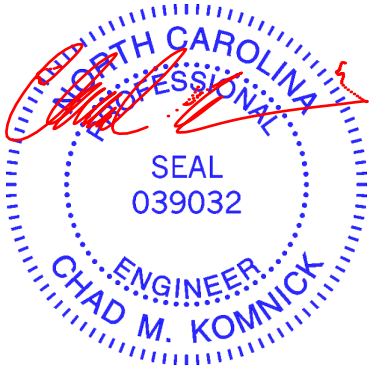
LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
X-Y,Z-AA: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
C-U,I-M: 2x6 SP No.2, D-H: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): E-G.
BOT CHORD Rigid ceiling directly applied. Except:
5-10-0 oc bracing: O-T
JOINTS 1 Brace at Jt(s): W

REACTIONS. (lb/size) V=1069/0-5-8, L=1069/0-5-8
Max Horz V=-835(LC 6)
Max Uplift V=-352(LC 8), L=-352(LC 9)
Max Grav V=1210(LC 2), L=1210(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-976/442, C-D=-613/570, D-E=-231/322, G-H=-231/321, H-I=-613/571, I-J=-976/442, B-V=-1165/545, J-L=-1165/547
BOT CHORD U-V=-805/818, S-U=-75/1555, Q-S=-75/1555, N-Q=-75/1555, M-N=-75/1555, R-T=-735/804, P-R=-1016/0, O-P=-775/844
WEBS T-U=-116/288, C-T=-31/365, M-O=-119/291, I-O=-31/365, D-W=-579/656, H-W=-579/656, B-U=-264/683, J-M=-270/683, R-U=-1169/593, M-P=-1169/547

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) 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) 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) Ceiling dead load (5.0 psf) on member(s). C-D, H-I, D-W, H-W; Wall dead load (5.0psf) on member(s).C-T, I-O
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. R-T, P-R, O-P
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) V=352, L=352.
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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Attic room checked for L/360 deflection.
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.



March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	C01	Common Supported Gable	1	1	I29310970
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:09 2017 Page 1
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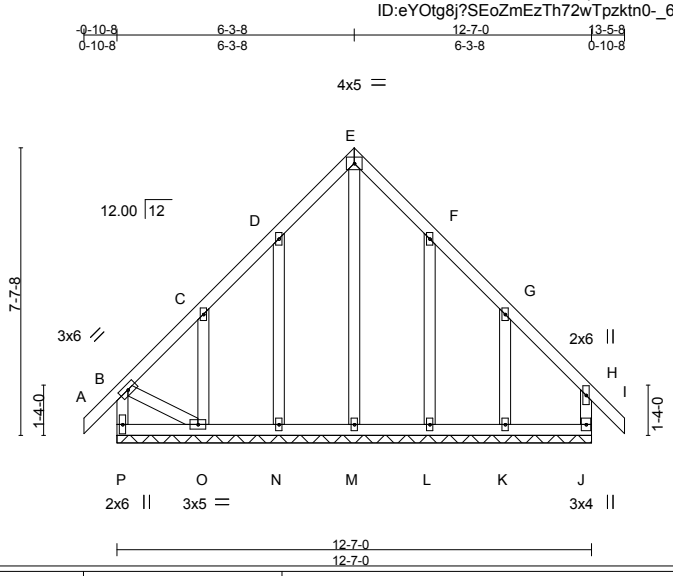

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.00	I	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	-0.00	I	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(TL)	0.00	J	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix)							Weight: 90 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. All bearings 12-7-0.
(lb) - Max Horz P=-520(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) M except P=-538(LC 6), J=-163(LC 9), N=-296(LC 8), O=-447(LC 8), L=-255(LC 9), K=-425(LC 9)
Max Grav All reactions 250 lb or less at joint(s) J, N, L, K except P=470(LC 7), M=737(LC 9), O=279(LC 6)

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

TOP CHORD	B-P=-452/544, B-C=-444/507, C-D=-274/481, D-E=-97/627, E-F=-54/604, F-G=-49/385
BOT CHORD	O-P=-475/506
WEBS	E-M=-718/93, D-N=-129/322, C-O=-119/336, F-L=-129/296, G-K=-117/395, B-O=-399/486

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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) M except (jt=lb) P=538, J=163, N=296, O=447, L=255, K=425.
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.

March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	C02	Common Girder	1	2	I29310971
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:10 2017 Page 1
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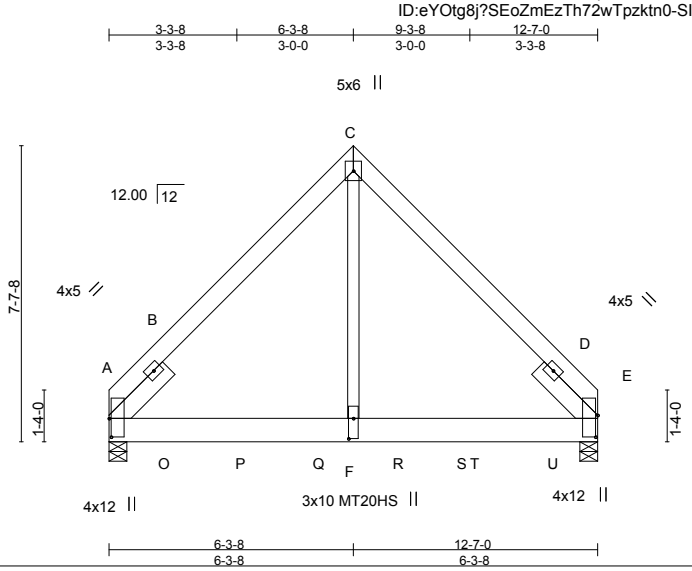

Plate Offsets (X,Y)-- [A:0-5-12,0-0-10], [E:0-6-12,0-0-10], [F:0-6-4,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.04	F-M	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(TL)	-0.10	F-I	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.60	Horz(TL)	-0.02	A	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-M)		Wind(LL)	0.08	F-M	>999	240	Weight: 203 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP DSS
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 2-0-0, Right 2x6 SP No.2 2-0-0

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

REACTIONS. (lb/size) A=4702/0-5-8, E=4827/0-5-8
Max Horz A=412(LC 5)
Max Uplift A=-2809(LC 7), E=-3094(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-3161/1992, B-C=-3795/2456, C-D=-3798/2449, D-E=-3126/2067
BOT CHORD A-O=-1589/2624, O-P=-1589/2624, P-Q=-1589/2624, F-Q=-1589/2624, F-R=-1589/2624, R-S=-1589/2624, S-T=-1589/2624, T-U=-1589/2624, E-U=-1589/2624
WEBS C-F=-3008/4870

NOTES- (12)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
6) All plates are MT20 plates unless otherwise indicated.
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, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=2809, E=3094.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1454 lb down and 843 lb up at 1-5-12, 1454 lb down and 843 lb up at 3-5-12, 1454 lb down and 843 lb up at 5-5-12, 1454 lb down and 843 lb up at 7-5-12, and 1353 lb down and 944 lb up at 9-5-12, and 1353 lb down and 944 lb up at 11-5-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
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.

LOAD CASE(S) Standard

NORTH CAROLINA PROFESSIONAL SEAL 039032 ENGINEER CHAD M. KOMNICK

March 20,2017

Continued on page 2

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

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-C=-60, C-E=-60, G-K=-20
   Concentrated Loads (lb)
   Vert: O=-1454(B) P=-1454(B) Q=-1454(B) R=-1454(B) T=-1353(B) U=-1353(B)

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	CP01	Hip Girder	3	1	I29310972
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:10 2017 Page 1
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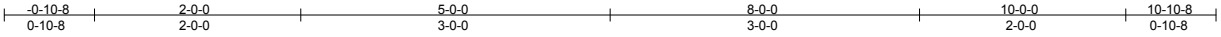

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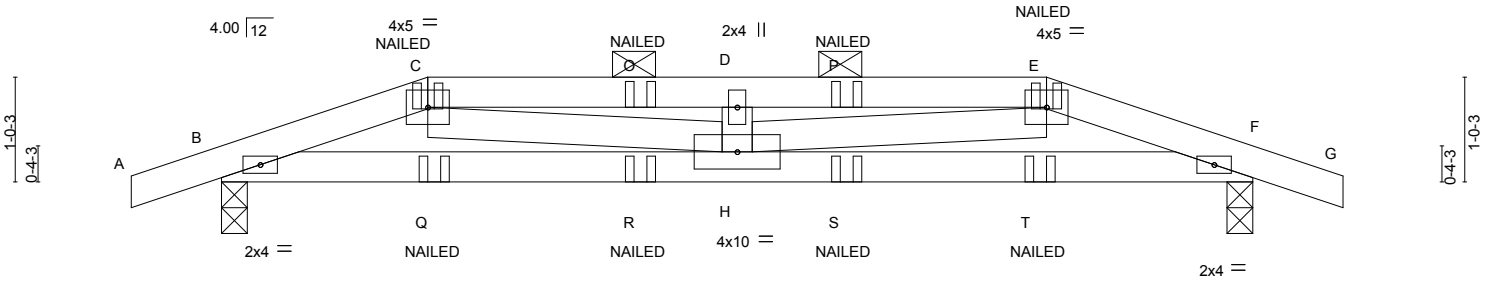

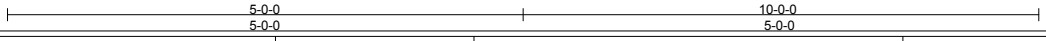

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.04	H	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(TL)	-0.09	H	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.13	Horz(TL)	-0.01	F	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-M)		Wind(LL)	0.12	H	>999	240	Weight: 42 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 or 6-0-0 oc purlins, except 2-0-0 oc purlins (5-1-13 max.): C-E.
BOT CHORD Rigid ceiling directly applied or 6-0-7 oc bracing.

REACTIONS. (lb/size) B=465/0-3-0, F=465/0-3-0
Max Horz B=-40(LC 5)
Max Uplift B=-650(LC 4), F=-650(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-777/1018, C-O=-1223/1648, D-O=-1223/1648, D-P=-1223/1648, E-P=-1223/1648, E-F=-777/1021
BOT CHORD B-Q=-927/722, Q-R=-927/722, H-R=-927/722, H-S=-899/723, S-T=-899/723, F-T=-899/723
WEBS C-H=-713/537, E-H=-715/536

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; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=650, F=650.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) "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.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
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.

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-E=-60, E-G=-60, I-L=-20
Concentrated Loads (lb)
Vert: Q=-6(B) R=-6(B) S=-6(B) T=-6(B)

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Edenton, NC 27932

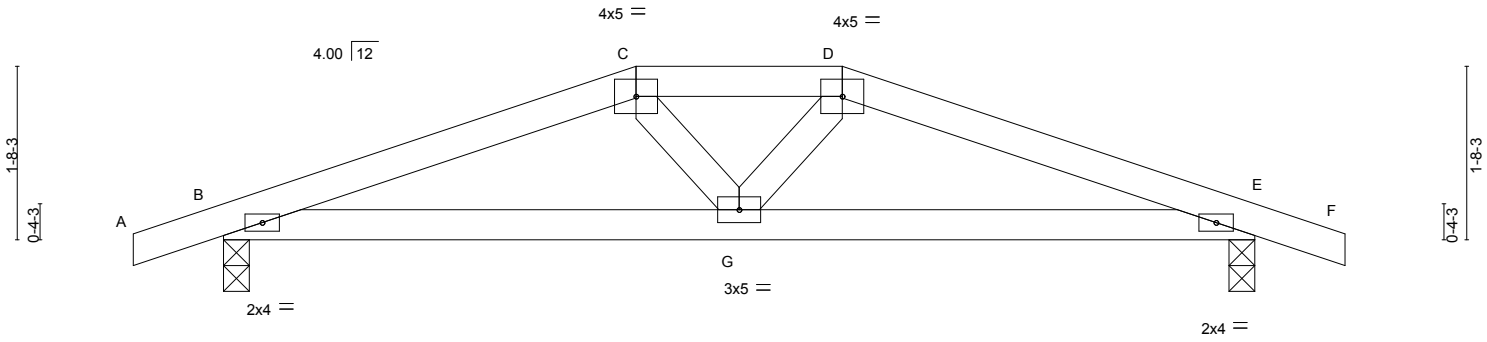
Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	CP02	Hip	3	1	I29310973
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:11 2017 Page 1
ID:eYOtg8j?SEoZmEzTh72wTpzktn0-xVDxgetcPX8Ln2IqPo0ciC2bCIuAxyXFzEuGi6za1WQ

-0-10-8 0-10-8 | 4-0-0 4-0-0 | 6-0-0 2-0-0 | 10-0-0 4-0-0 | 10-10-8 0-10-8

Scale = 1:22.3



5-0-0 5-0-0 | 10-0-0 5-0-0

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	0.43	Vert(LL)	-0.01	G	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(TL)	-0.04	G-J	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(TL)	-0.01	E	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.07	G-M	>999	240	Weight: 38 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 2-0-0 oc purlins (6-0-0 max.): C-D.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS. (lb/size) B=452/0-3-0, E=452/0-3-0
Max Horz B=59(LC 6)
Max Uplift B=-627(LC 6), E=-627(LC 7)

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

TOP CHORD	B-C=-681/1651, C-D=-652/1801, D-E=-681/1651
BOT CHORD	B-G=-1443/616, E-G=-1445/616
WEBS	C-G=-305/115, D-G=-305/115

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; 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=627, E=627.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29310974
807186_MASTER	CP03	Common	6	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:11 2017 Page 1
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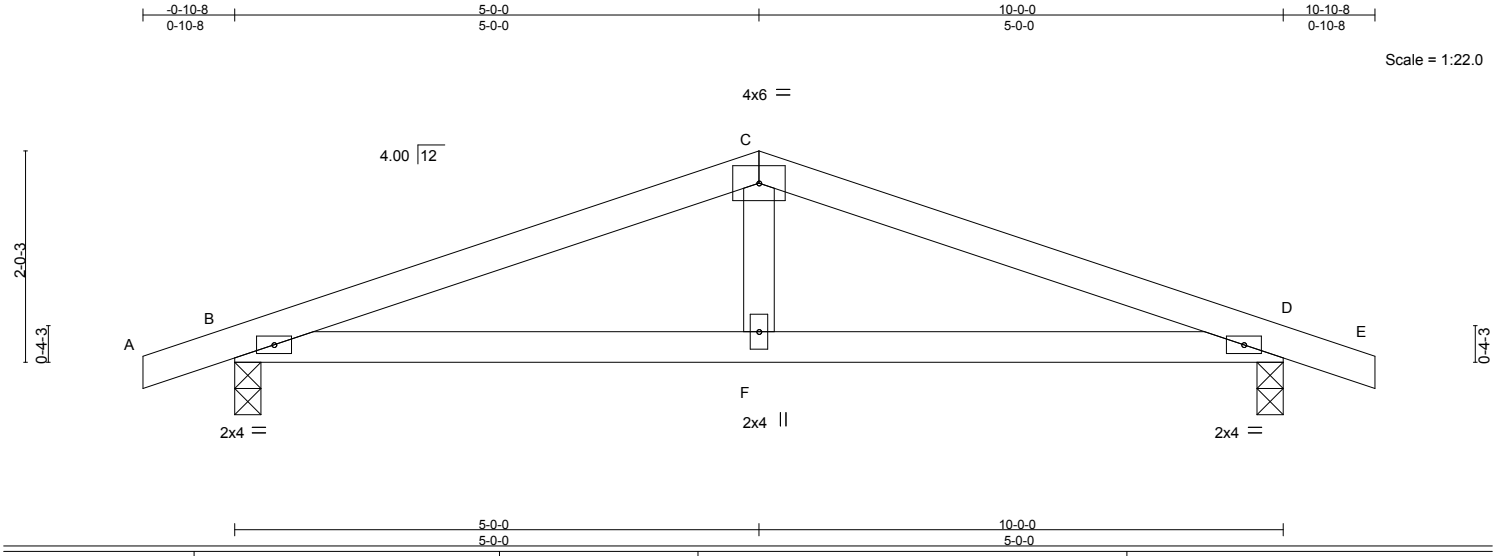

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.01	F-l	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(TL)	-0.04	F-l	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(TL)	-0.01	D	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.07	F-L	>999	240	Weight: 36 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=452/0-3-0, D=452/0-3-0
Max Horz B=-68(LC 7)
Max Uplift B=-617(LC 8), D=-617(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-641/1579, C-D=-641/1579
BOT CHORD B-F=-1361/571, D-F=-1361/571
WEBS C-F=-519/192

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=617, D=617.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29310975
807186_MASTER	D01	Common Supported Gable	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

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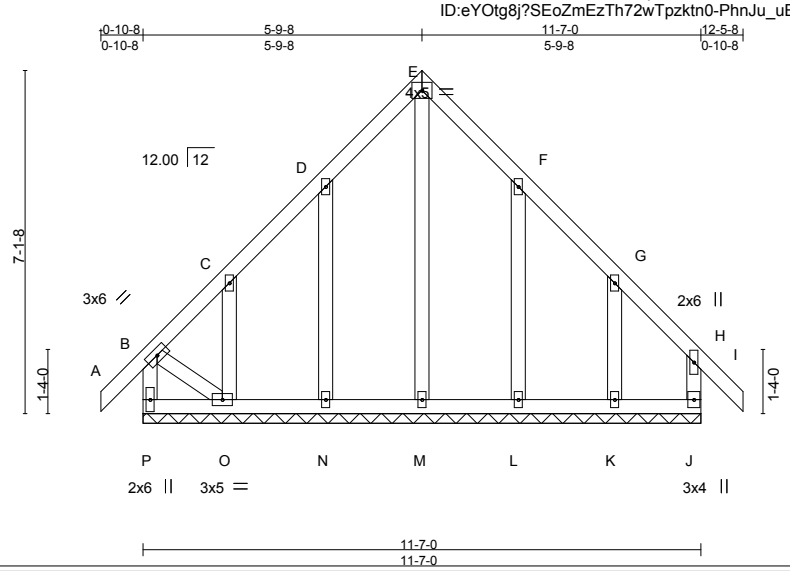

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.00	I	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	-0.00	I	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.55	Horz(TL)	0.00	J	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix)							Weight: 82 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. All bearings 11-7-0.
(lb) - Max Horz P=-487(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) M except P=-544(LC 6), J=-106(LC 9), N=-309(LC 8), O=-433(LC 7), L=-275(LC 9), K=-388(LC 9)
Max Grav All reactions 250 lb or less at joint(s) J, N, L, K except P=496(LC 7), M=652(LC 9), O=300(LC 6)

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

TOP CHORD	B-P=-479/545, B-C=-411/457, C-D=-268/435, D-E=-86/562, E-F=-48/546, F-G=-40/310
BOT CHORD	O-P=-434/469
WEBS	E-M=-632/79, D-N=-133/336, C-O=-100/288, F-L=-134/316, G-K=-96/352, B-O=-378/466

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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) M except (jt=lb) P=544, J=106, N=309, O=433, L=275, K=388.
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.

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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	D02	COMMON GIRDER	1	2	I29310976
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:12 2017 Page 1
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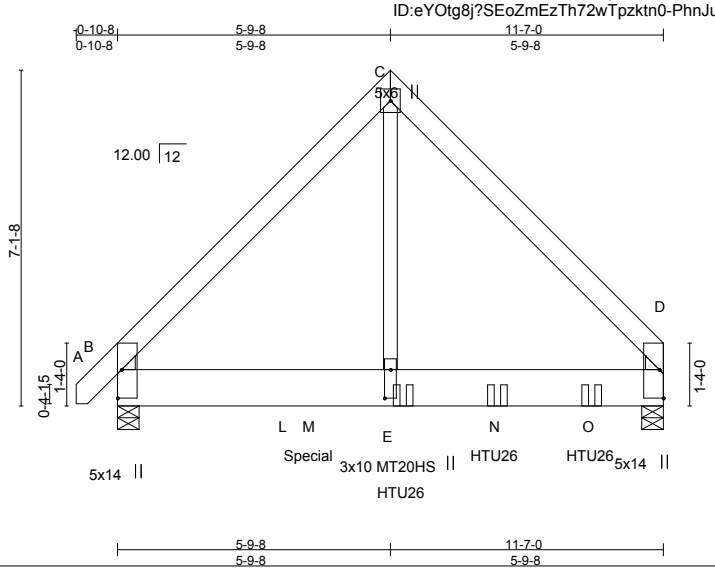

Plate Offsets (X,Y)-- [B:Edge,0-1-0], [D:Edge,0-1-0], [E:0-7-4,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.03	E-K	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(TL)	-0.06	E-K	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.65	Horz(TL)	-0.01	D	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-M)		Wind(LL)	0.08	E-H	>999	240	Weight: 196 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP No.1
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

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

REACTIONS. (lb/size) B=3029/0-5-8, D=3975/0-5-8
Max Horz B=412(LC 16)
Max Uplift B=-3805(LC 6), D=-3671(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-3181/3622, C-D=-3164/3636
BOT CHORD B-L=-2427/2154, L-M=-2427/2154, E-M=-2427/2154, E-N=-2427/2154, N-O=-2427/2154, D-O=-2427/2154
WEBS C-E=-4726/4015

NOTES- (14)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-3-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
6) All plates are MT20 plates unless otherwise indicated.
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, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=3805, D=3671.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) Use Simpson Strong-Tie HTU26 (20-10d Girder, 14-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 6-0-12 from the left end to 10-0-12 to connect truss(es) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1923 lb down and 3993 lb up at 4-1-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
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.

LOAD CASE(S) Standard

Continued on page 2

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TRENCO
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818 Soundside Road
Edenton, NC 27932

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-C=-60, C-D=-60, F-I=-20
   Concentrated Loads (lb)
   Vert: E=-1369(B) M=-1923(B) N=-1370(B) O=-1370(B)

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	E01	ATTIC	1	1	I29310977
					Job Reference (optional)

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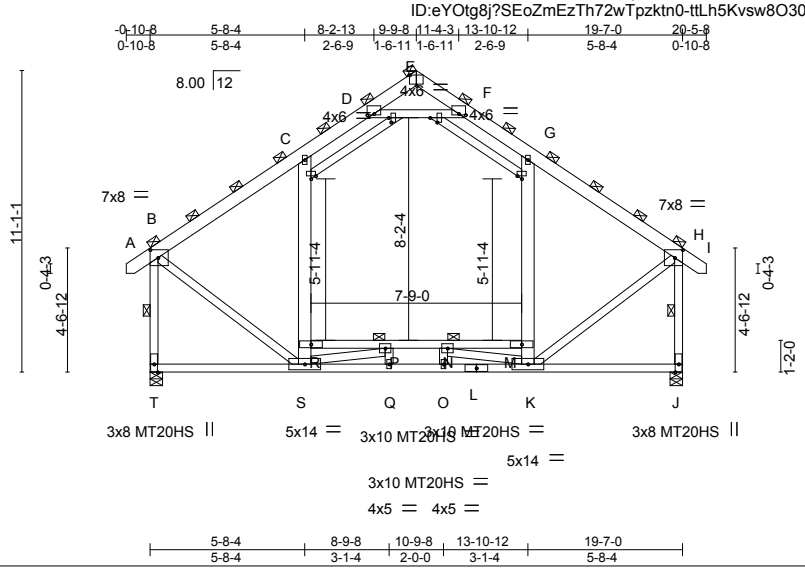


Plate Offsets (X,Y)-- [B:0-3-8,0-3-8], [D:0-3-0,0-0-8], [E:0-3-0,Edge], [F:0-3-0,0-0-8], [H:0-3-8,0-3-8], [U:0-2-0,0-1-2], [V:0-2-0,Edge], [W:0-2-0,0-3-2], [X:0-2-0,Edge]

LOADING (psf)		SPACING-	4-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.16	M-N	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(TL)	-0.32	M-N	>714	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.81	Horz(TL)	0.05	J	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.44	S	>532	240	Weight: 196 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 *Except* U-V,W-X: 2x4 SP No.2

BOT CHORD 2x4 SP No.1 *Except* M-R: 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* G-K,C-S: 2x6 SP DSS, D-F,B-T,H-J: 2x4 SP No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (4-10-10 max.), except end verticals (Switched from sheeted: Spacing > 2-8-0).

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 4-8-3 oc bracing: S-T. 3-7-0 oc bracing: M-R

WEBS 1 Row at midpt B-T, H-J

REACTIONS. (lb/size) T=2117/0-5-8, J=2117/0-5-8
Max Horz T=-1664(LC 6)
Max Uplift T=-793(LC 8), J=-793(LC 9)
Max Grav T=2399(LC 2), J=2399(LC 2)

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

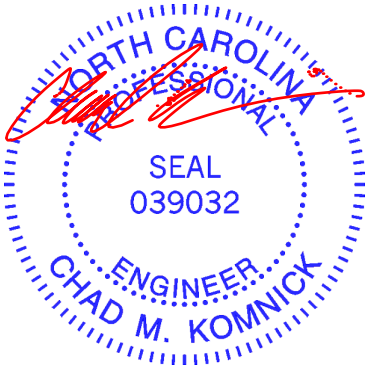
TOP CHORD B-C=-1767/786, C-D=-1368/1062, D-E=-303/560, E-F=-302/560, F-G=-1368/1068, G-H=-1767/785, B-T=-2309/1120, H-J=-2309/1123

BOT CHORD S-T=-1483/1534, Q-S=-147/3228, O-Q=-147/3228, L-O=-147/3228, K-L=-147/3228, J-K=-197/268, P-R=-1520/1658, N-P=-2095/0, M-N=-1621/1759

WEBS K-M=-408/398, G-M=-282/601, R-S=-408/402, C-R=-282/602, D-F=-1900/1561, B-S=-320/1608, H-K=-323/1608, P-S=-2324/1258, K-N=-2324/1175

NOTES-

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) All plates are 2x4 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Ceiling dead load (5.0 psf) on member(s). C-D, F-G, D-F; Wall dead load (5.0psf) on member(s).G-M, C-R
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. P-R, N-P, M-N
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) T=793, J=793.
11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Attic room checked for L/360 deflection.



March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	E02	ATTIC	6	1	I29310978
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:14 2017 Page 1
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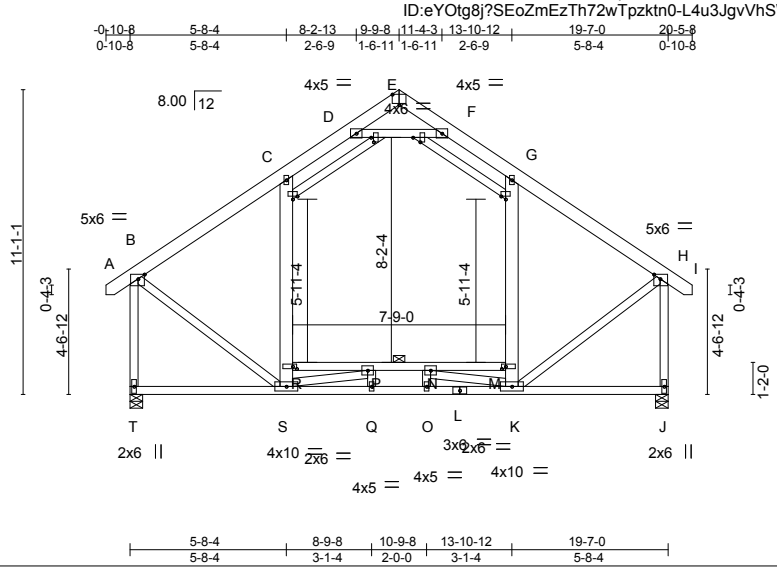

Plate Offsets (X,Y)-- [B:0-2-12,0-2-0], [E:0-3-0,Edge], [H:0-2-12,0-2-0], [M:0-1-12,0-1-0], [R:0-1-12,0-1-0], [U:0-2-0,0-1-2], [V:0-2-0,Edge], [W:0-2-0,0-3-2], [X:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.09	M-N	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(TL)	-0.17	M-N	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(TL)	0.03	J	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.25	S	>921	240	Weight: 196 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
U-V,W-X: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
G-K,C-S: 2x6 SP No.2, D-F: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied. Except:
5-8-0 oc bracing: M-R

REACTIONS. (lb/size) T=1059/0-5-8, J=1059/0-5-8
Max Horz T=-832(LC 6)
Max Uplift T=-396(LC 8), J=-396(LC 9)
Max Grav T=1200(LC 2), J=1200(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-883/395, C-D=-682/532, D-E=-150/284, E-F=-149/284, F-G=-682/535, G-H=-883/395, B-T=-1152/559, H-J=-1152/561
BOT CHORD S-T=-750/776, Q-S=-58/1622, O-Q=-58/1622, L-O=-58/1622, K-L=-58/1622, P-R=-686/745, N-P=-1058/0, M-N=-729/789
WEBS G-M=-138/303, C-R=-138/304, D-F=-948/775, B-S=-158/795, H-K=-160/795, P-S=-1167/543, K-N=-1167/499

NOTES-
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) 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) Ceiling dead load (5.0 psf) on member(s). C-D, F-G, D-F; Wall dead load (5.0psf) on member(s).G-M, C-R
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. P-R, N-P, M-N
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) T=396, J=396.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
11) Attic room checked for L/360 deflection.

March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	G01	GABLE	1	1	I29310979
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:15 2017 Page 1
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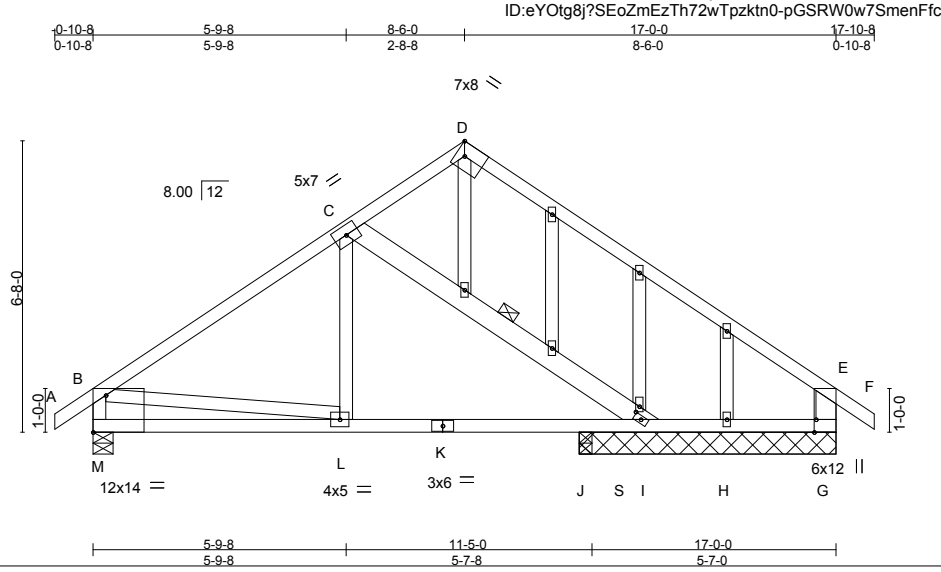

Plate Offsets (X,Y)-- [G:0-3-8,Edge], [I:0-1-7,0-1-0], [M:Edge,0-10-2]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.02	L-M	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(TL)	-0.06	L-M	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.35	Horz(TL)	0.01	G	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.02	G-H	>999	240	Weight: 113 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP SS
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
B-M: 2x4 SP No.2, E-G,C-I: 2x6 SP No.2
OTHERS 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 C-I

REACTIONS. All bearings 5-10-8 except (jt=length) M=0-5-8, J=0-3-8.
(lb) - Max Horz M=-448(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) except M=-496(LC 8), G=-284(LC 9), I=-245(LC 7), H=-264(LC 9)
Max Grav All reactions 250 lb or less at joint(s) H, J except M=765(LC 1), G=578(LC 1), I=364(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-840/487, C-D=-403/458, D-E=-559/348, B-M=-709/582, E-G=-607/538
BOT CHORD L-M=-528/469, K-L=-227/610, J-K=-227/610, J-S=-227/610, I-S=-227/610, H-I=0/320, G-H=0/320
WEBS B-L=-72/359, C-I=-485/382

NOTES-
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 496 lb uplift at joint M, 284 lb uplift at joint G , 245 lb uplift at joint I and 264 lb uplift at joint H.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-60, B-C=-60, C-D=-71(F=-11), D-E=-71(F=-11), E-F=-71(F=-11), M-S=-20, G-S=-31(F=-11), C-I=-41(F)

March 20,2017

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	G02	Common Girder	1	2	I29310980
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:15 2017 Page 1
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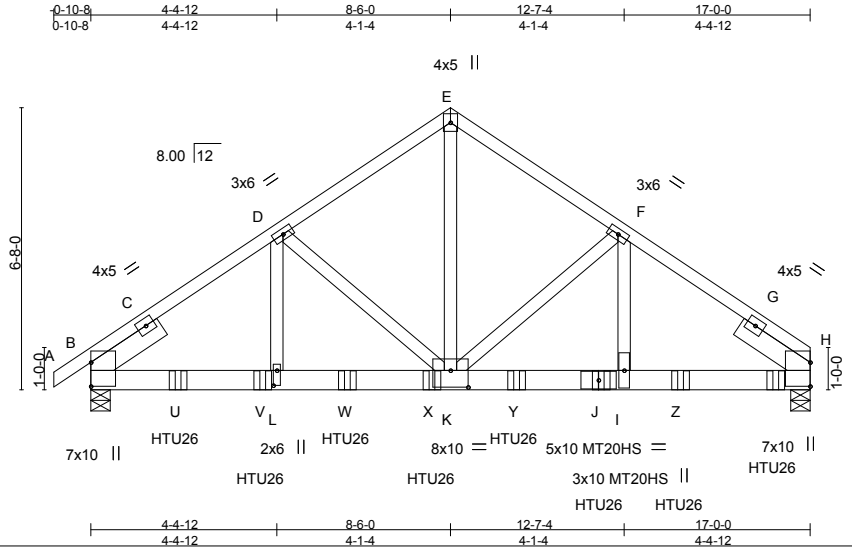

Plate Offsets (X,Y)-- [K:0-5-0,0-4-12], [L:0-4-4,0-1-0]

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	0.99	Vert(LL)	-0.09	I-K	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(TL)	-0.22	I-K	>927	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.71	Horz(TL)	0.06	H	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.17	I-K	>999	240	Weight: 229 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1 *Except*
E-H: 2x4 SP No.2
BOT CHORD 2x6 SP DSS *Except*
H-J: 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 8-1-12 oc bracing.

REACTIONS. (lb/size) H=6615/0-5-8, B=5842/0-5-8
Max Horz B=396(LC 5)
Max Uplift H=-4593(LC 7), B=-4071(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-4253/2849, C-D=-7287/5057, D-E=-5562/3987, E-F=-5564/3987, F-G=-7298/5099, G-H=-4275/2889
BOT CHORD B-U=-4139/5924, U-V=-4139/5924, L-V=-4139/5924, L-W=-4139/5924, W-X=-4139/5924, K-X=-4139/5924, K-Y=-4039/5936, J-Y=-4039/5936, I-J=-4039/5936, I-Z=-4039/5936, H-Z=-4039/5936
WEBS E-K=-4077/5757, F-K=-1764/1458, F-I=-1441/2093, D-K=-1747/1410, D-L=-1396/2084

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
6) All plates are MT20 plates unless otherwise indicated.
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 4593 lb uplift at joint H and 4071 lb uplift at joint B.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) Use Simpson Strong-Tie HTU26 (20-10d Girder, 14-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-3-0 oc max. starting at 2-0-12 from the left end to 16-2-4 to connect truss(es) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

March 20,2017

Continued on page 2

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818 Soundside Road
Edenton, NC 27932

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-E=-60, E-H=-60, M-Q=-20
   Concentrated Loads (lb)
   Vert: J=-1370(B) O=-1415(B) U=-1369(B) V=-1370(B) W=-1370(B) X=-1370(B) Y=-1370(B) Z=-1412(B)

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	H01	Common Supported Gable	1	1	I29310981
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:16 2017 Page 1
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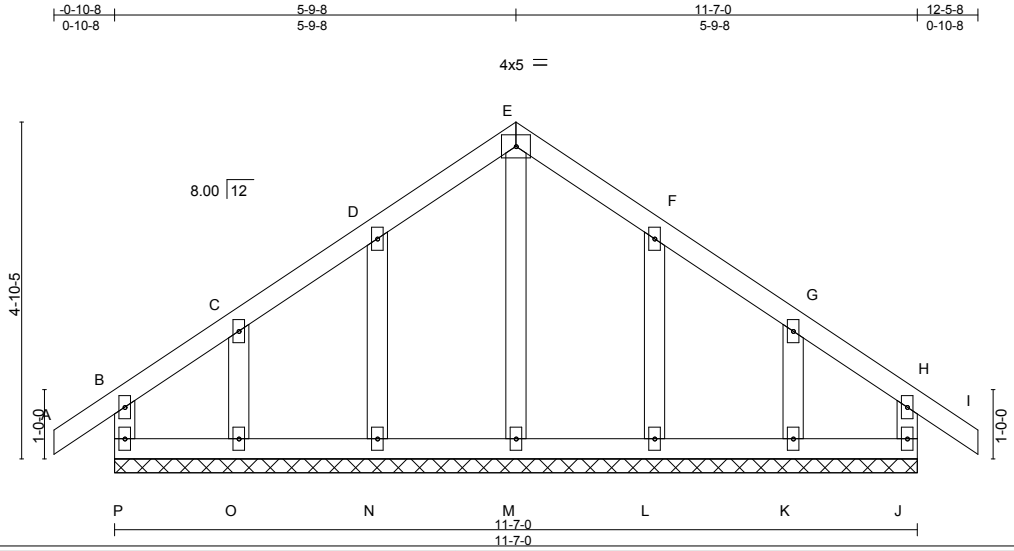

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.00	I	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	-0.00	I	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(TL)	0.00	J	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix)							Weight: 63 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. All bearings 11-7-0.
(lb) - Max Horz P=-327(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) except P=-181(LC 6), J=-146(LC 7), N=-203(LC 8), O=-235(LC 8), L=-204(LC 9), K=-226(LC 9)
Max Grav All reactions 250 lb or less at joint(s) P, J, M, N, O, L, K

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD D-E=-35/330, E-F=-35/330

NOTES-
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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 181 lb uplift at joint P, 146 lb uplift at joint J , 203 lb uplift at joint N, 235 lb uplift at joint O, 204 lb uplift at joint L and 226 lb uplift at joint K.
12) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	I01	Common Supported Gable	1	1	I29310982
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:17 2017 Page 1
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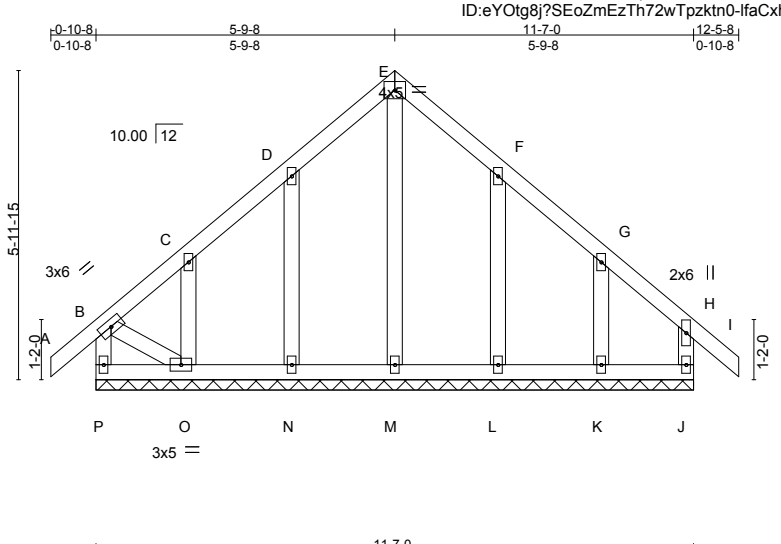


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.00	I	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	-0.00	I	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.24	Horz(TL)	0.00	J	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix)							Weight: 74 lb	FT = 20%

LUMBER-

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

BRACING-

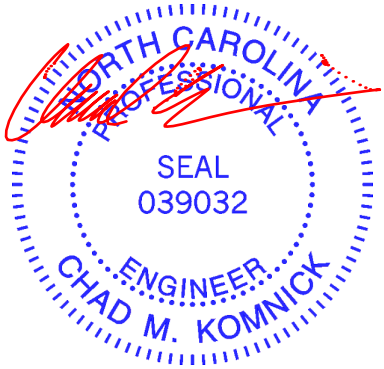
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 11-7-0.
(lb) - Max Horz P=-407(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) M except P=-381(LC 6), J=-127(LC 9), N=-259(LC 8), O=-322(LC 8), L=-237(LC 9), K=-296(LC 9)
Max Grav All reactions 250 lb or less at joint(s) J, N, O, L, K except P=329(LC 7), M=424(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-P=-313/383, B-C=-318/351, C-D=-207/332, D-E=-68/431, E-F=-43/424
BOT CHORD O-P=-355/391
WEBS E-M=-403/62, D-N=-133/285, F-L=-134/272, G-K=-97/284, B-O=-298/363

NOTES-

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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) M except (jt=lb) P=381, J=127, N=259, O=322, L=237, K=296.
12) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.



March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	I02	COMMON GIRDER	1	2	I29310983

Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Apr 22 2016 MiTek Industries, Inc. Mon Mar 20 11:40:32 2017 Page 1

ID:eYOtg8j?SEoZmEzTh72wTpzktn0-TWjyXEY6k1s4oGy?vyAKEp5okLj4ub69qwM9TgzZ3cD

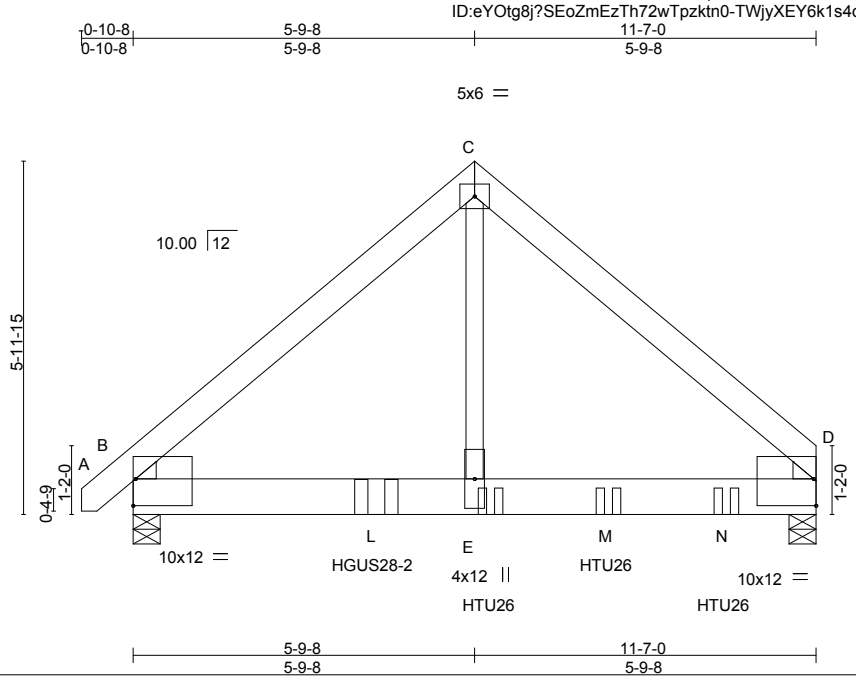


Plate Offsets (X,Y)-- [B:Edge,0-5-7], [D:Edge,0-5-7]

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	0.36	Vert(LL)	-0.03	E-K	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(TL)	-0.08	E-K	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.50	Horz(TL)	-0.01	D	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.09	E-H	>999	240	Weight: 166 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x8 SP DSS
WEBS	2x4 SP No.2
OTHERS	2x8 SP DSS
WEDGE	

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

BRACING-

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

REACTIONS. (lb/size) B=3035/0-5-8 (min. 0-1-13), D=3978/0-5-8 (min. 0-2-6)
Max Horz B=343(LC 5)
Max Uplift B=-3292(LC 6), D=-3350(LC 7)

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

TOP CHORD	B-C=-3525/3489, C-D=-3477/3500
BOT CHORD	B-L=-2515/2611, E-L=-2515/2611, E-M=-2515/2611, M-N=-2515/2611, D-N=-2515/2611
WEBS	C-E=-4091/4057

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
   Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-4-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3292 lb uplift at joint B and 3350 lb uplift at joint D.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) Use Simpson Strong-Tie HGUS28-2 (36-16d Girder, 12-16d Truss) or equivalent at 4-1-8 from the left end to connect truss(es) A24 (2 ply 2x6 SP) to back face of bottom chord.
11) Use Simpson Strong-Tie HTU26 (20-10d Girder, 14-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 6-0-12 from the left end to 10-0-12 to connect truss(es) A25 (1 ply 2x6 SP), A26 (1 ply 2x6 SP), A04 (1 ply 2x6 SP) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.

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LOAD CASE(S) Standard

Continued on page 2

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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: A-C=-60, C-D=-60, F-I=-20

Concentrated Loads (lb)

Vert: E=-1370(B) L=-1934(B) M=-1369(B) N=-1370(B)

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29310984
807186_MASTER	J01	MONOPITCH	2	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:18 2017 Page 1
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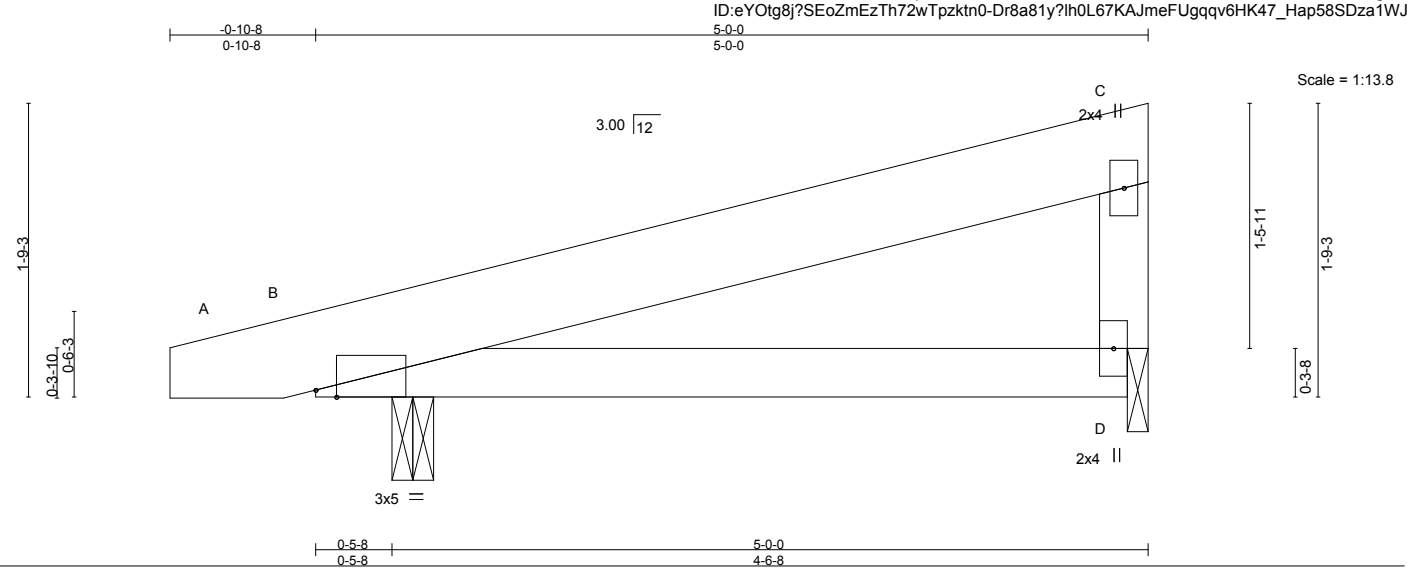

Plate Offsets (X,Y)-- [B:0-1-8,Edge]

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	0.28	Vert(LL)	-0.01	D-I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(TL)	-0.03	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-S)		Wind(LL)	0.05	D-I	>999	240	Weight: 23 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, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) B=252/0-3-0, D=168/0-1-8
Max Horz B=122(LC 6)
Max Uplift B=-347(LC 6), D=-247(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-D=-128/315

NOTES-
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=347, D=247.
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.

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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29310985
807186_MASTER	J02	MONOPITCH	10	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:18 2017 Page 1
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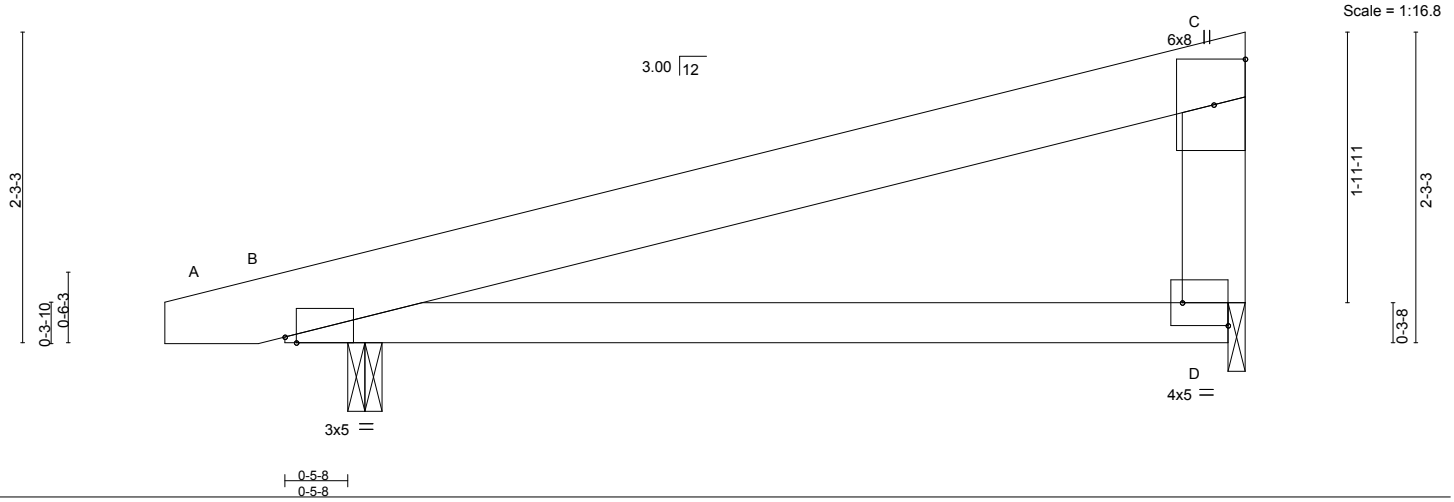


Plate Offsets (X,Y)-- [B:0-1-0,Edge], [D:Edge,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.02	D-I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(TL)	-0.07	D-I	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.01	B	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.12	D-I	>654	240	Weight: 33 lb	FT = 20%

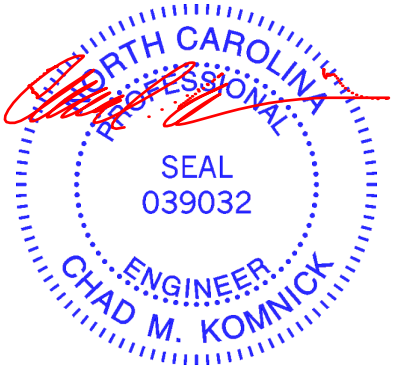
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2

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

REACTIONS. (lb/size) B=327/0-3-0, D=246/0-1-8
Max Horz B=163(LC 6)
Max Uplift B=-444(LC 6), D=-361(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-160/295, C-D=-177/376
BOT CHORD B-D=-398/132

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=444, D=361.
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/Redbud/
807186_MASTER	J03	HALF HIP	6	1	I29310986
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:19 2017 Page 1
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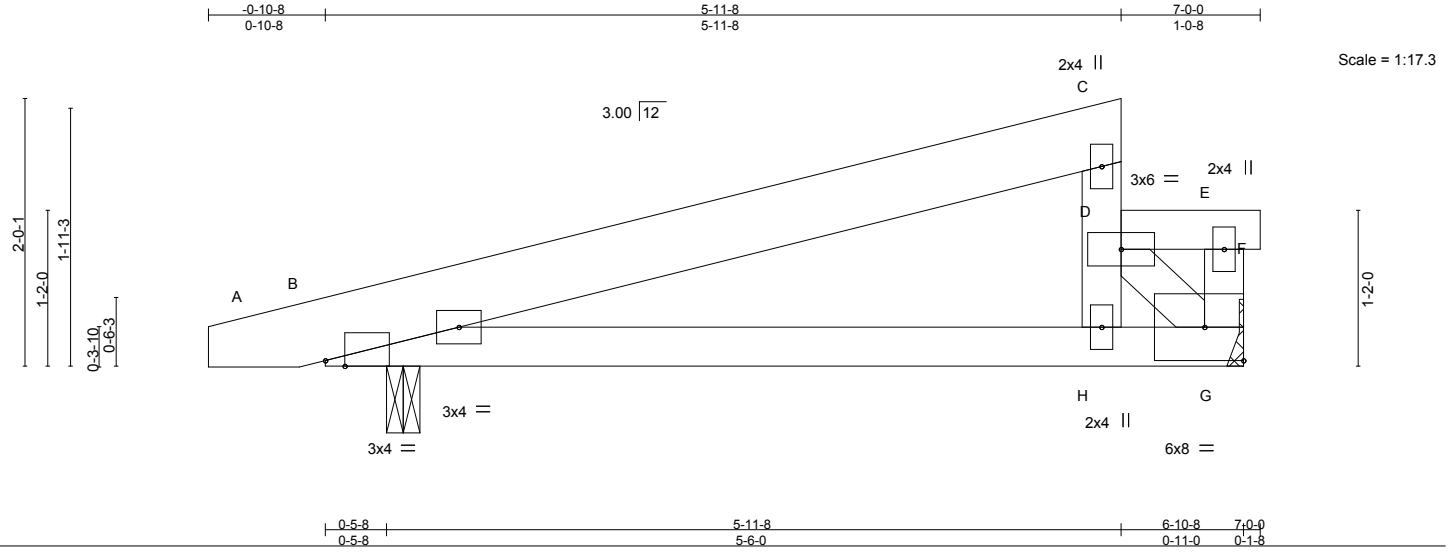

Plate Offsets (X,Y)-- [B:0-1-12,Edge]

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	0.70	Vert(LL)	-0.01	H-M	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(TL)	-0.05	H-M	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.42	Horz(TL)	-0.01	G	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.09	H-M	>871	240	Weight: 32 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
D-F: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
C-H: 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: D-H, D-F.
BOT CHORD Rigid ceiling directly applied or 5-5-4 oc bracing.

REACTIONS. (lb/size) G=600/Mechanical, B=385/0-3-0
Max Horz B=194(LC 8)
Max Uplift G=-325(LC 8), B=-443(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-367/505, D-H=-527/149
BOT CHORD B-H=-579/329, G-H=-1020/597
WEBS D-G=-825/1410

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) -0-6-7 to 7-0-0 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
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) G=325, B=443.
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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.
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.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-C=-60, D-E=-60, E-F=-20, G-I=-20
Concentrated Loads (lb)
Vert: D=-410

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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29310987
807186_MASTER	J04	Jack-Open	20	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:19 2017 Page 1
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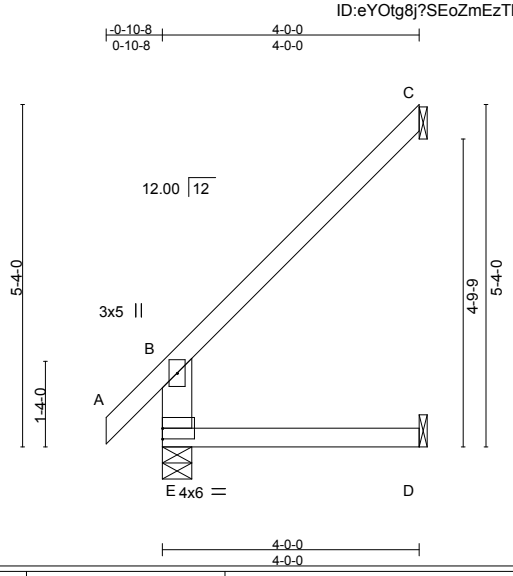

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.01	D-E	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(TL)	-0.03	D-E	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.16	C	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-M)		Wind(LL)	0.09	D-E	>523	240	Weight: 19 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 4-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-4 oc bracing.

REACTIONS. (lb/size) E=224/0-5-8, C=95/Mechanical, D=43/Mechanical
Max Horz E=510(LC 8)
Max Uplift C=-307(LC 8), D=-91(LC 8)
Max Grav E=224(LC 1), C=95(LC 1), D=70(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-272/52

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; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) C=307.
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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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	J05	HALF HIP	2	1	I29310988
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:19 2017 Page 1
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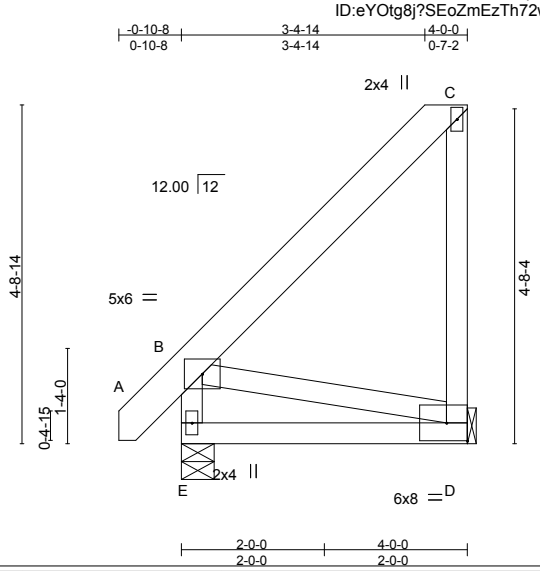


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.01	D-E	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	-0.03	D-E	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(TL)	-0.00	D	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.00	E	****	240	Weight: 34 lb	FT = 20%

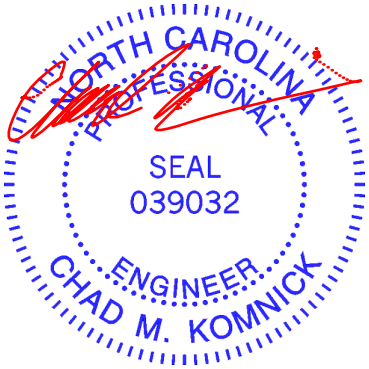
LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
C-D: 2x4 SP No.2

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

REACTIONS. (lb/size) D=142/Mechanical, E=209/0-5-8
Max Horz E=430(LC 7)
Max Uplift D=-303(LC 7), E=-148(LC 6)
Max Grav D=245(LC 6), E=209(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-445/216, C-D=-183/451, B-E=-241/266
BOT CHORD D-E=-745/273
WEBS B-D=-151/633

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; 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) 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=303, E=148.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
8) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29310989
807186_MASTER	J06	Half Hip	2	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:20 2017 Page 1
ID:eYOtg8j?SEoZmEzTh72wTpzktn0-ADGKZj_FHIG3MRUZQBhja5v7Tw_IY?Oa17aFX5za1WH

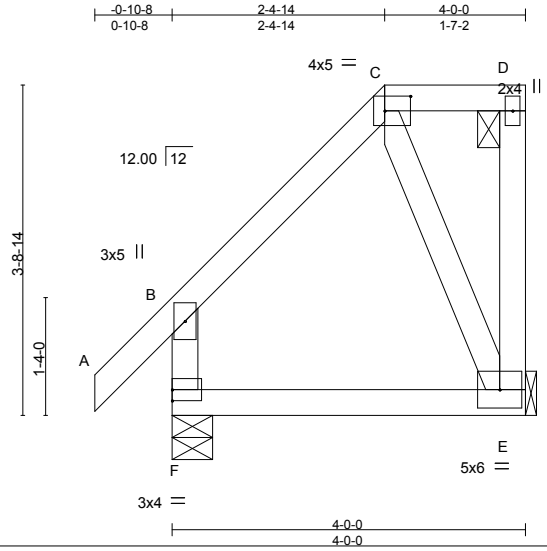


Plate Offsets (X,Y)-- [C:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.01	E-F	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(TL)	-0.02	E-F	>999	240		
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-S)		Wind(LL)	0.01	E-F	>999	240	Weight: 27 lb	FT = 20%

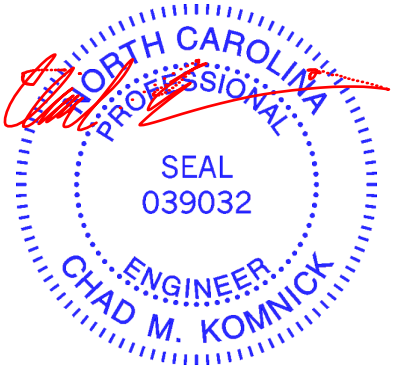
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. (lb/size) F=218/0-5-8, E=140/Mechanical
Max Horz F=326(LC 7)
Max Uplift F=-154(LC 8), E=-229(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-F=-177/310
BOT CHORD E-F=-281/137
WEBS C-E=-112/453

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) 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) F=154, E=229.
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.



March 20,2017

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TRENCO
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29310990
807186_MASTER	J07	Half Hip	2	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:20 2017 Page 1
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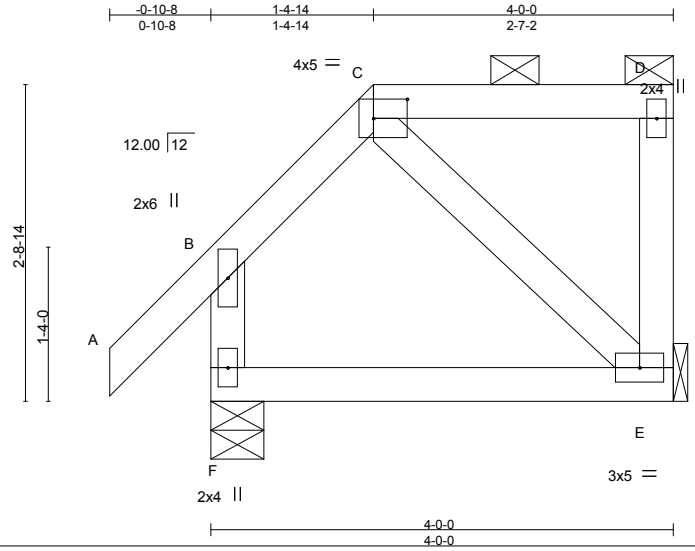

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Plate Offsets (X,Y)-- [C:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.01	E-F	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	-0.02	E-F	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(TL)	-0.00	E	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.01	E-F	>999	240	Weight: 24 lb	FT = 20%

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

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

REACTIONS. (lb/size) F=218/0-5-8, E=140/Mechanical
Max Horz F=241(LC 7)
Max Uplift F=-175(LC 8), E=-179(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-F=-177/332
BOT CHORD E-F=-279/85
WEBS C-E=-41/281

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) 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) F=175, E=179.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29310991
807186_MASTER	J08	Half Hip Girder	3	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:20 2017 Page 1
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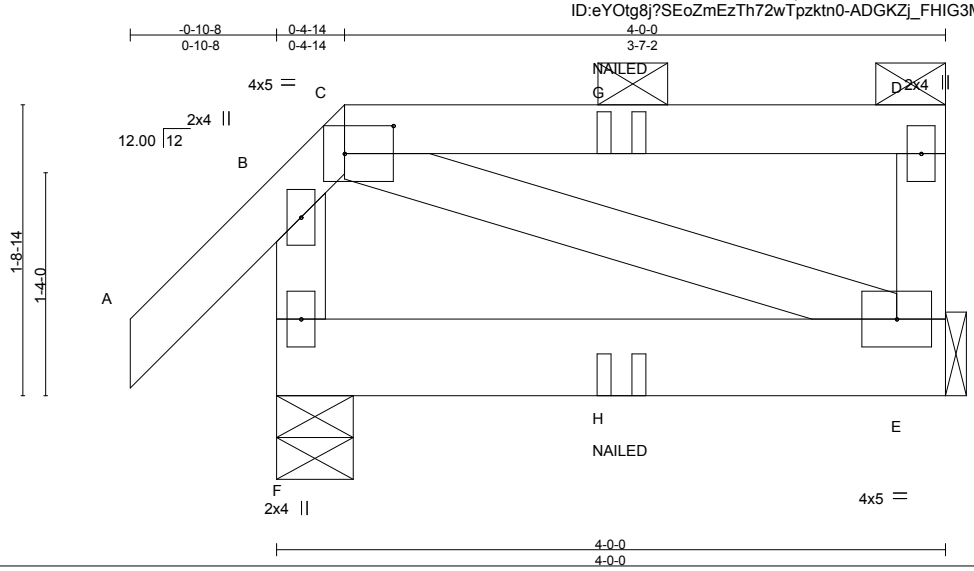

Scale = 1:13.8

Plate Offsets (X,Y)-- [C:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.00	E-F	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	-0.01	E-F	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.01	Horz(TL)	-0.00	E	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.00	E-F	>999	240	Weight: 26 lb	FT = 20%

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

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

REACTIONS. (lb/size) F=207/0-5-8, E=139/Mechanical
Max Horz F=146(LC 5)
Max Uplift F=-194(LC 6), E=-148(LC 5)
Max Grav F=207(LC 1), E=145(LC 12)

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

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; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) 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) F=194, E=148.
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 (plf)
Vert: A-B=-60, B-C=-20, C-D=-60, E-F=-20
Concentrated Loads (lb)
Vert: H=1(F)

March 20,2017

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29310992
807186_MASTER	J09	Jack-Open	5	1	Job Reference (optional)

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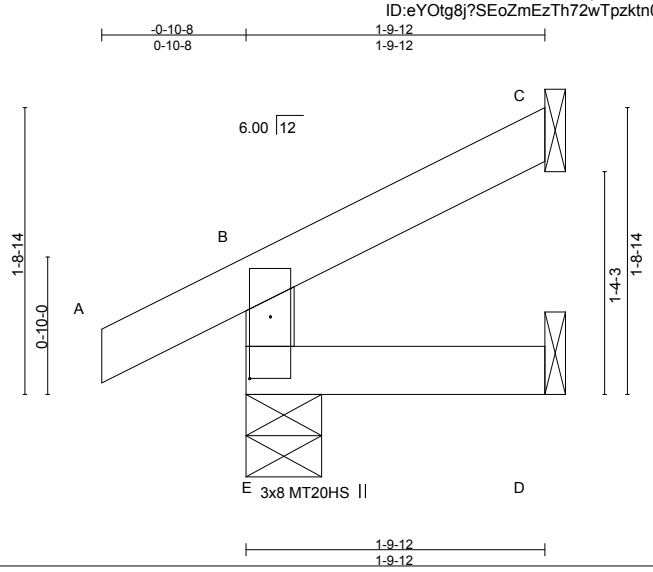

Plate Offsets (X,Y)-- [E:0-4-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.00	E	>999	360	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	-0.00	E	>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	D-E	>999	240	Weight: 8 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-9-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) E=146/0-5-8, C=34/Mechanical, D=13/Mechanical
Max Horz E=160(LC 8)
Max Uplift E=-137(LC 8), C=-69(LC 8), D=-10(LC 8)
Max Grav E=146(LC 1), C=34(LC 1), D=30(LC 3)

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; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C, D except (jt=lb) E=137.
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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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29310993
807186_MASTER	J10	Jack-Open	2	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:21 2017 Page 1
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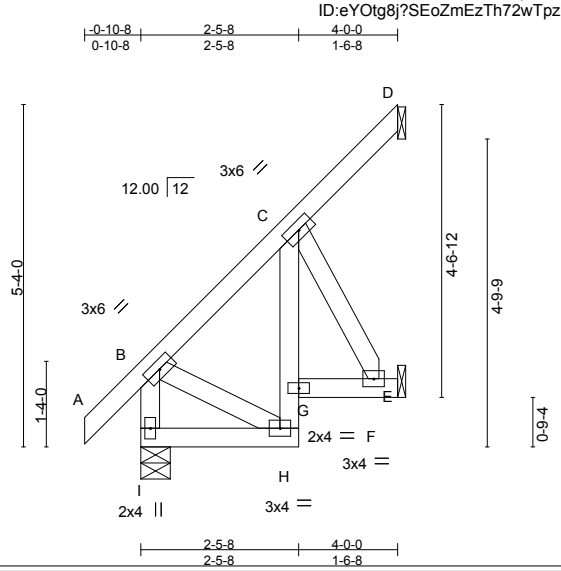

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.00	H	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(TL)	-0.01	H-I	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(TL)	-0.02	E	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.01	H	>999	240	Weight: 30 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) I=221/0-5-8, D=41/Mechanical, E=102/Mechanical
Max Horz I=503(LC 8)
Max Uplift D=-118(LC 8), E=-277(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD H-I=-499/17
WEBS B-H=0/380, C-F=-114/443

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; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) D=118, E=277.
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/Redbud/ I29310994
807186_MASTER	J11	Half Hip	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:22 2017 Page 1
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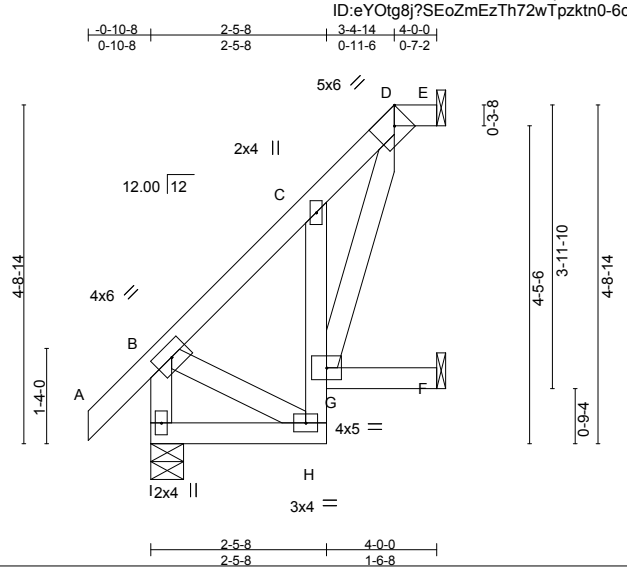

Plate Offsets (X,Y)-- [D:0-2-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.00	G	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	-0.01	G	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(TL)	-0.02	E	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.02	G	>999	240	Weight: 30 lb	FT = 20%

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

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

REACTIONS. (lb/size) E=109/Mechanical, I=221/0-5-8, F=34/Mechanical
Max Horz I=462(LC 8)
Max Uplift E=-278(LC 8), I=-6(LC 8), F=-53(LC 8)
Max Grav E=109(LC 1), I=221(LC 1), F=41(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-D=-127/275
BOT CHORD H-I=-409/42, C-G=-144/461
WEBS B-H=-13/258, D-G=-537/148

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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) I, F except (jt=lb) E=278.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

March 20,2017

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29310995
807186_MASTER	J12	Half Hip	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:22 2017 Page 1
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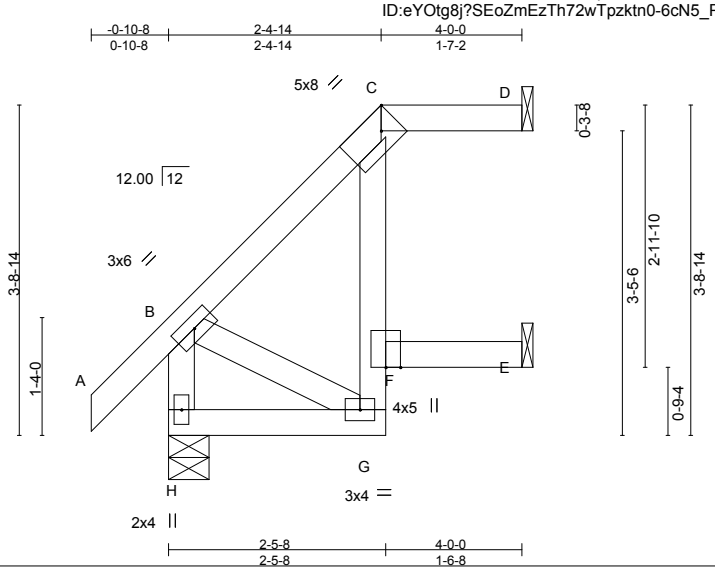

Plate Offsets (X,Y)-- [C:0-2-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.01	F	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(TL)	-0.02	F	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(TL)	-0.05	D	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-M)		Wind(LL)	0.03	C	>999	240	Weight: 25 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: C-D.
BOT CHORD Rigid ceiling directly applied or 9-9-0 oc bracing.

REACTIONS. (lb/size) D=82/Mechanical, H=221/0-5-8, E=61/Mechanical
Max Horz H=374(LC 8)
Max Uplift D=-122(LC 8), H=-90(LC 8), E=-99(LC 8)
Max Grav D=82(LC 1), H=221(LC 1), E=63(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD G-H=-369/36
WEBS B-G=-36/288

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) 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) H, E except (jt=lb) D=122.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) This manufactured truss is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29310996
807186_MASTER	J13	Half Hip	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:23 2017 Page 1
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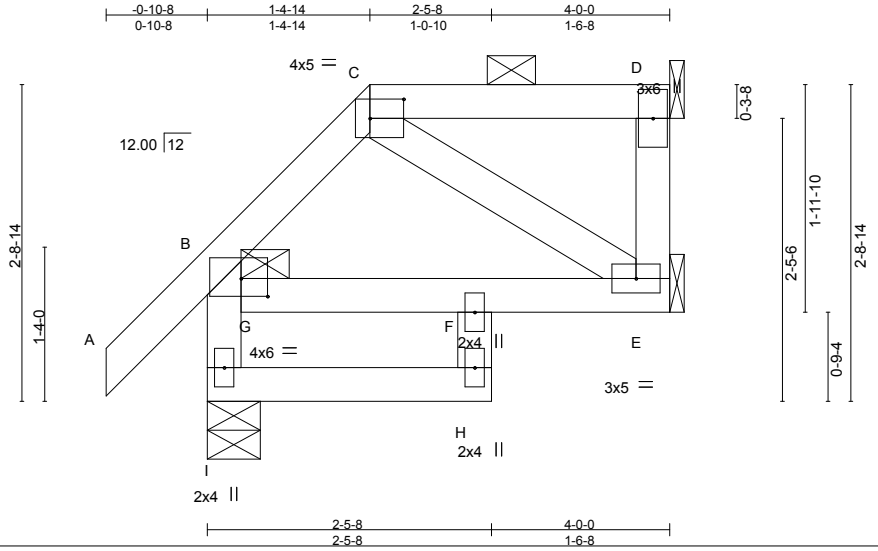


Scale = 1:19.9

Plate Offsets (X,Y)-- [C:0-3-8,0-2-0], [G:0-2-12,0-1-14]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.01	F	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	-0.01	F	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(TL)	-0.02	D	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-M)		Wind(LL)	0.01	F-G	>999	240	Weight: 26 lb	FT = 20%

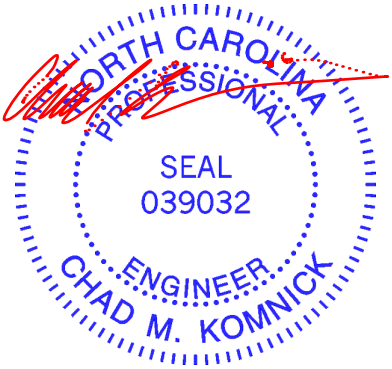
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

REACTIONS. (lb/size) E=64/Mechanical, I=218/0-5-8, D=75/Mechanical
Max Horz I=288(LC 8)
Max Uplift E=-88(LC 8), I=-139(LC 8), D=-114(LC 6)
Max Grav E=83(LC 3), I=218(LC 1), D=75(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD G-I=-192/277, B-G=-177/288

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 exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide metal plate or equivalent at bearing(s) D to support reaction shown.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E except (jt=lb) I=139, D=114.
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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
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.



March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	J14	Jack-Open	12	1	I29310997
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:23 2017 Page 1

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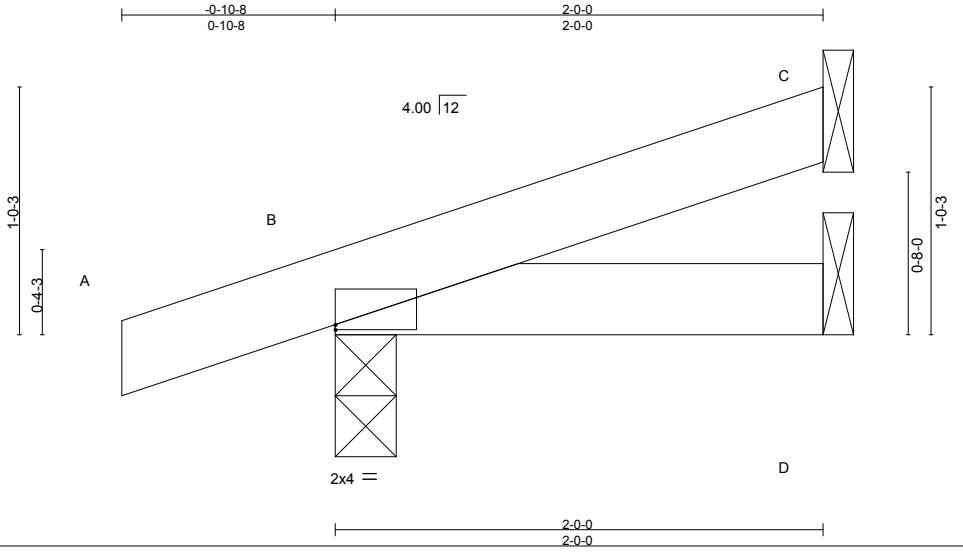


Plate Offsets (X,Y)-- [B:Edge,0-0-4]

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	0.09	Vert(LL)	-0.00	G	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	-0.00	G	>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	G	>999	240	Weight: 8 lb	FT = 20%

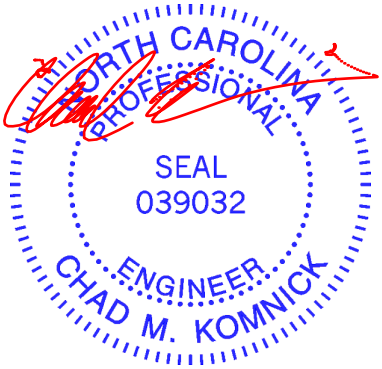
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (lb/size) C=42/Mechanical, B=146/0-3-0, D=23/Mechanical
Max Horz B=93(LC 6)
Max Uplift C=-61(LC 6), B=-217(LC 6), D=-37(LC 6)
Max Grav C=42(LC 1), B=146(LC 1), D=31(LC 3)

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; 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=217.
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.



March 20,2017

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TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	J15	MONOPITCH	3	1	I29310998
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:23 2017 Page 1
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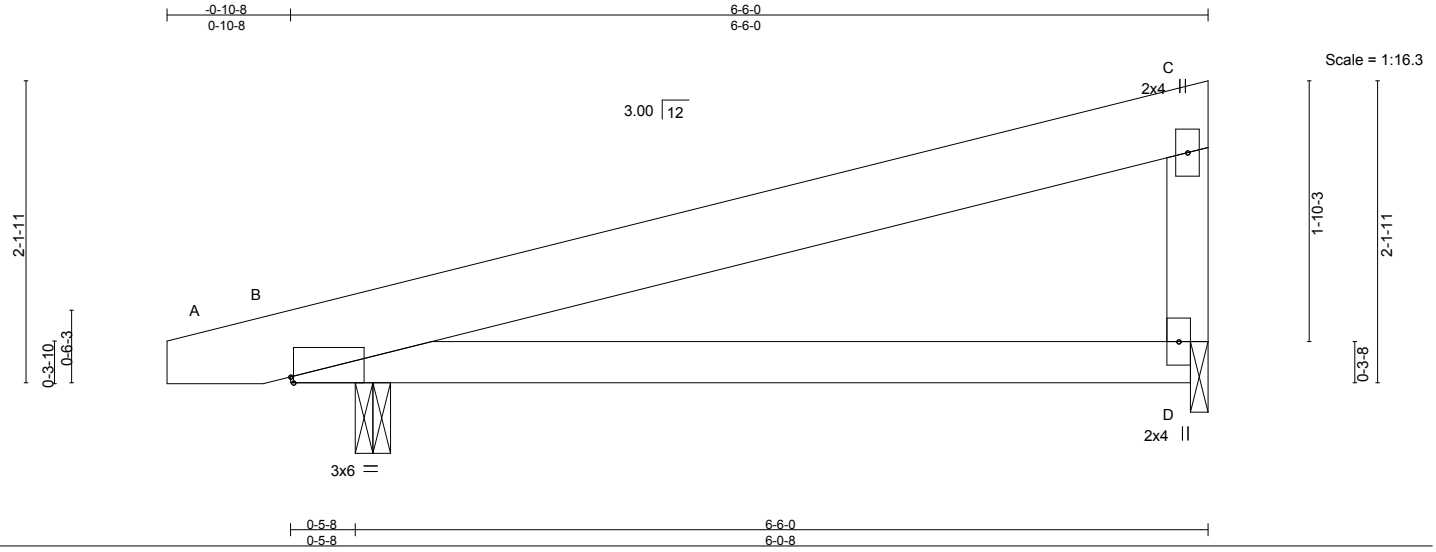

Plate Offsets (X,Y)-- [B:0-0-4,Edge]

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	0.49	Vert(LL)	-0.03	D-I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(TL)	-0.09	D-I	>857	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)	0.17	D-I	>452	240	Weight: 29 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, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) B=312/0-3-0, D=229/0-1-8
Max Horz B=154(LC 6)
Max Uplift B=-423(LC 6), D=-335(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-D=-175/408

NOTES-
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=423, D=335.
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.

March 20,2017

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TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	J16	MONOPITCH	5	1	I29310999
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:24 2017 Page 1
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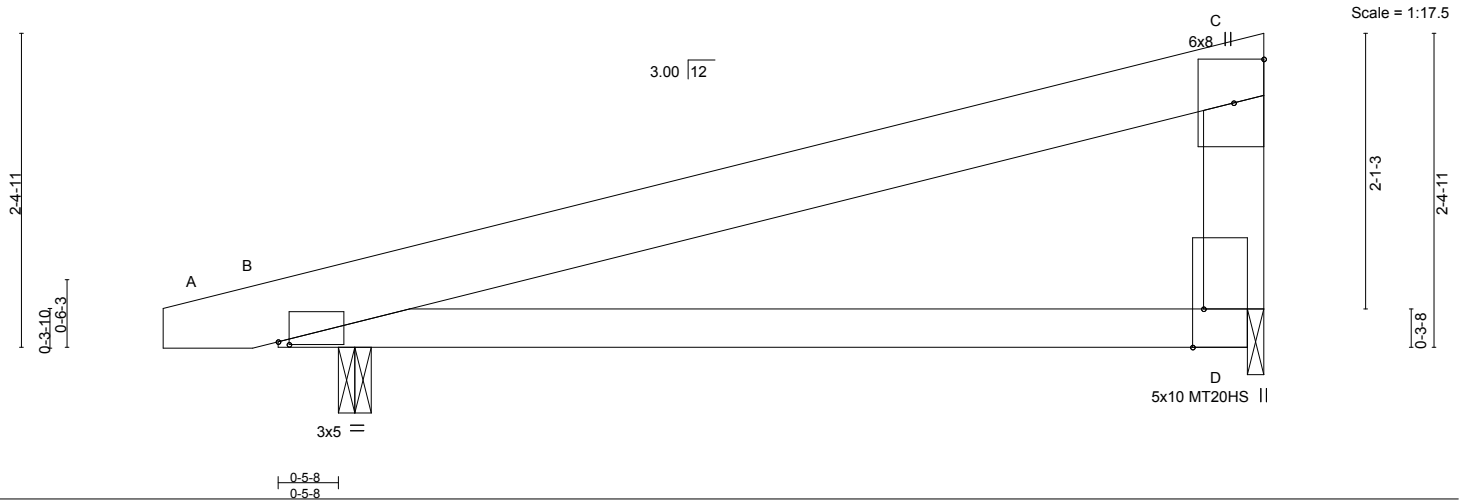

Plate Offsets (X,Y)-- [B:0-1-0,0-0-4], [D:0-3-8,Edge]

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	0.45	Vert(LL)	-0.03	D-I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(TL)	-0.09	D-I	>937	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)	0.17	D-I	>517	240	Weight: 35 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 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=347/0-3-0, D=267/0-1-8
Max Horz B=174(LC 6)
Max Uplift B=-470(LC 6), D=-390(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-175/320, C-D=-192/398
BOT CHORD B-D=-429/144

NOTES-
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=470, D=390.
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.

March 20,2017

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TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	J17	MONOPITCH	7	1	I29311000
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:24 2017 Page 1
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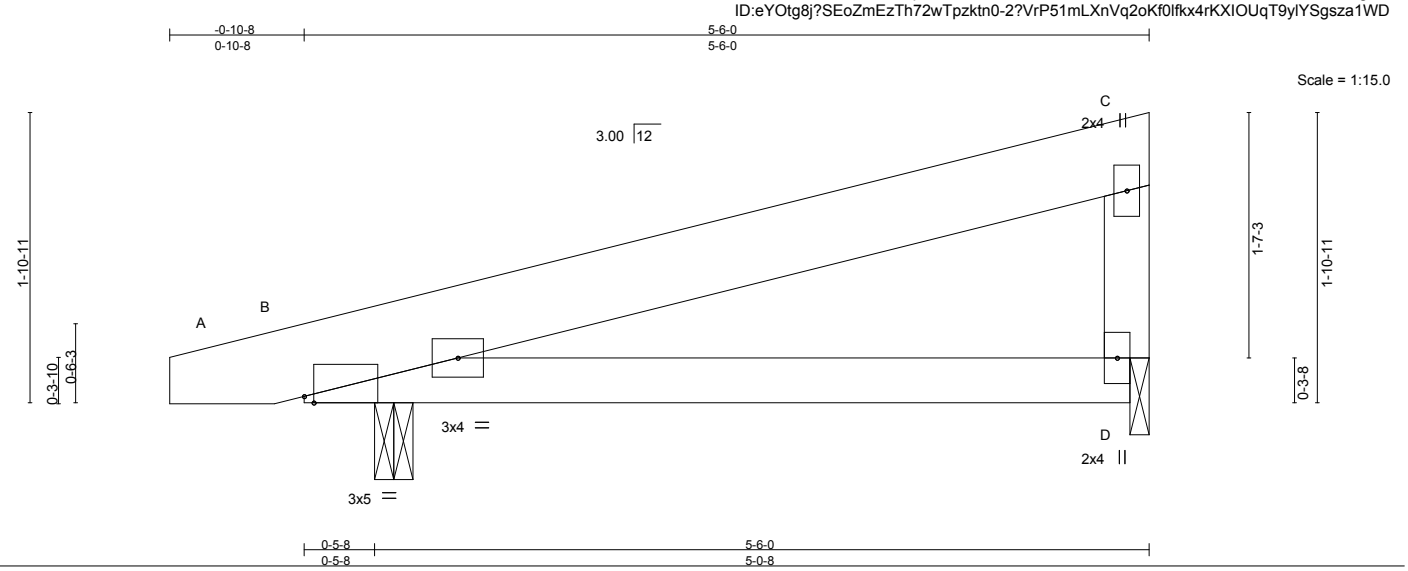

Plate Offsets (X,Y)-- [B:0-0-12,Edge]

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	0.34	Vert(LL)	-0.01	D-I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(TL)	-0.04	D-I	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.01	B	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.08	D-I	>801	240	Weight: 25 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, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) B=272/0-3-0, D=188/0-1-8
Max Horz B=133(LC 6)
Max Uplift B=-372(LC 6), D=-277(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-D=-144/348

NOTES-
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=372, D=277.
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.

March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	J18	Jack-Open	22	1	I29311001
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:24 2017 Page 1
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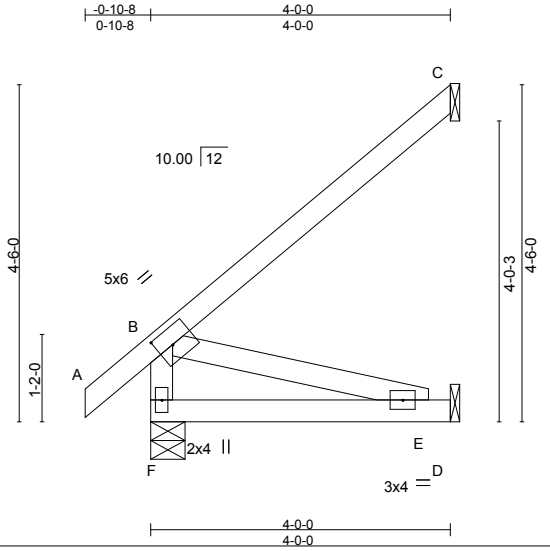

Plate Offsets (X,Y)-- [B:0-2-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.01	E-F	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	-0.03	E-F	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(TL)	-0.01	C	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.01	E-F	>999	240	Weight: 22 lb	FT = 20%

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

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

REACTIONS. (lb/size) F=221/0-5-8, C=106/Mechanical, D=38/Mechanical
Max Horz F=420(LC 8)
Max Uplift F=-43(LC 8), C=-230(LC 8), D=-77(LC 8)
Max Grav F=221(LC 1), C=106(LC 1), D=76(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD E-F=-417/15
WEBS B-E=-15/431

NOTES-
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) 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) F, D except (jt=lb) C=230.
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.

March 20,2017

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TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29311002
807186_MASTER	J19	Half Hip	1	1	Job Reference (optional)

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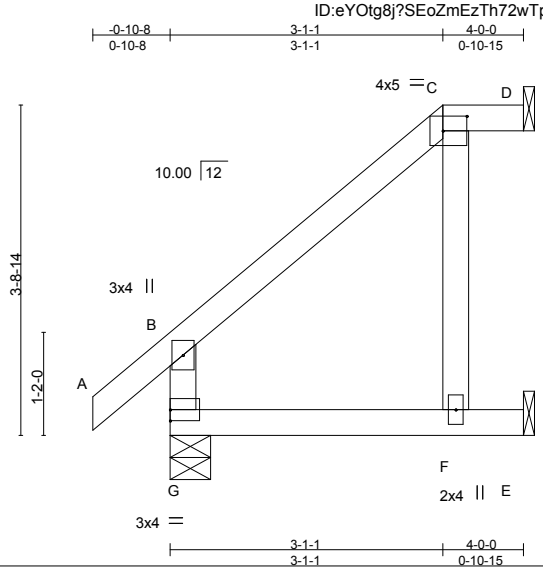

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Plate Offsets (X,Y)-- [C:0-3-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.01	F-G	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(TL)	-0.03	F-G	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(TL)	-0.10	D	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.07	F-G	>689	240	Weight: 21 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) D=46/Mechanical, G=221/0-5-8, E=98/Mechanical
Max Horz G=362(LC 8)
Max Uplift D=-40(LC 6), G=-98(LC 8), E=-207(LC 8)
Max Grav D=48(LC 14), G=221(LC 1), E=98(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-F=-75/282

NOTES-

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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D, G except (jt=lb) E=207.
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.

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	J20	Half Hip	1	1	I29311003
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:25 2017 Page 1
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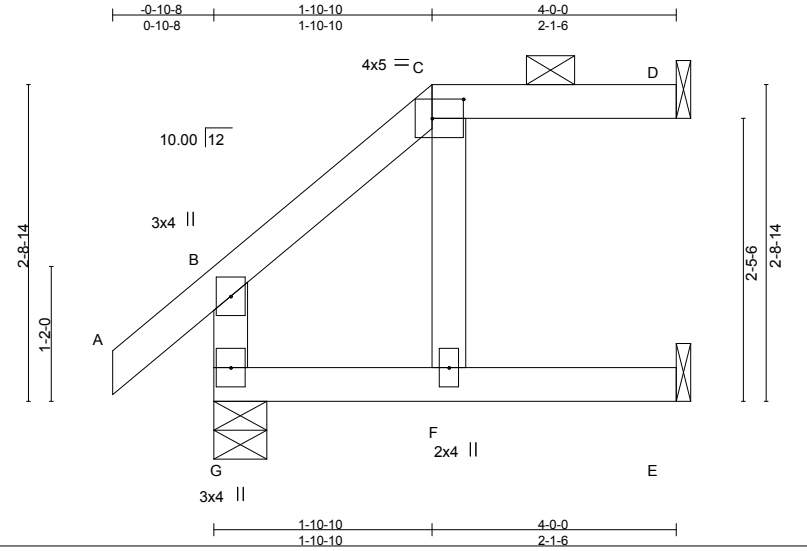

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Plate Offsets (X,Y)-- [C:0-3-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.01	F	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(TL)	-0.03	F	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(TL)	-0.09	D	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.05	F	>926	240	Weight: 19 lb	FT = 20%

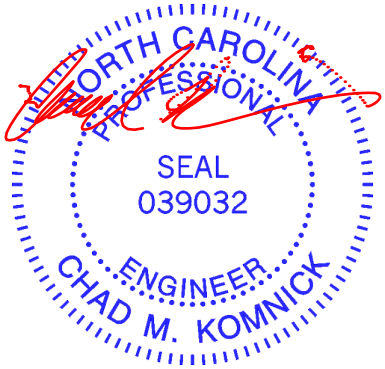
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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) D=84/Mechanical, G=221/0-5-8, E=59/Mechanical
Max Horz G=275(LC 8)
Max Uplift D=-101(LC 7), G=-154(LC 8), E=-57(LC 8)
Max Grav D=84(LC 1), G=221(LC 1), E=66(LC 3)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E except (jt=lb) D=101, G=154.
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.



March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29311004
807186_MASTER	J21	Half Hip Girder	2	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:26 2017 Page 1
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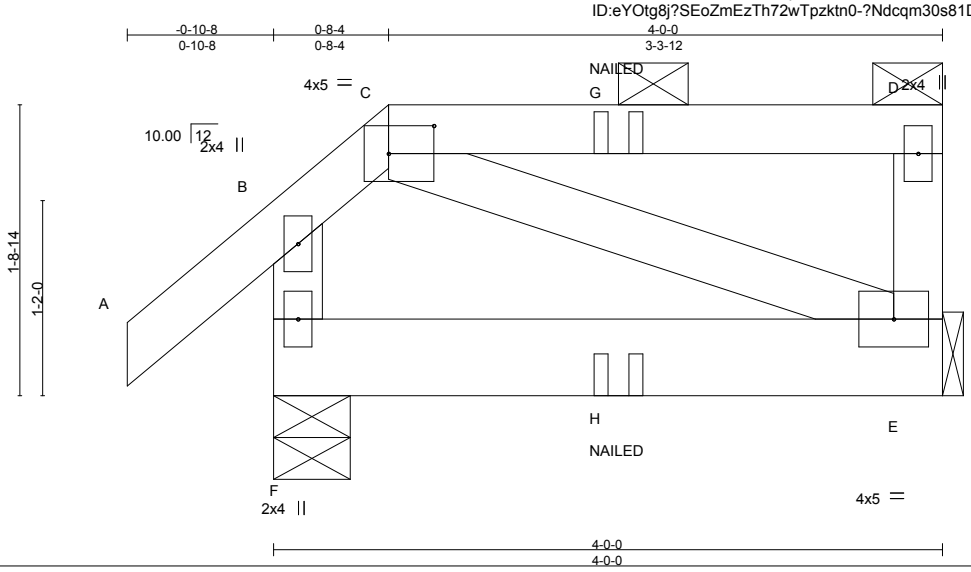

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Plate Offsets (X,Y)-- [C:0-3-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.00	E-F	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	-0.01	E-F	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.02	Horz(TL)	-0.00	E	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.00	E-F	>999	240	Weight: 25 lb	FT = 20%

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

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

REACTIONS. (lb/size) F=217/0-5-8, E=139/Mechanical
Max Horz F=144(LC 5)
Max Uplift F=-206(LC 6), E=-147(LC 5)
Max Grav F=217(LC 1), E=143(LC 12)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) F=206, E=147.
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).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-60, B-C=-60, C-D=-60, E-F=-20
Concentrated Loads (lb)
Vert: H=1(B)

March 20,2017

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29311005
807186_MASTER	J22	Half Hip	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:26 2017 Page 1
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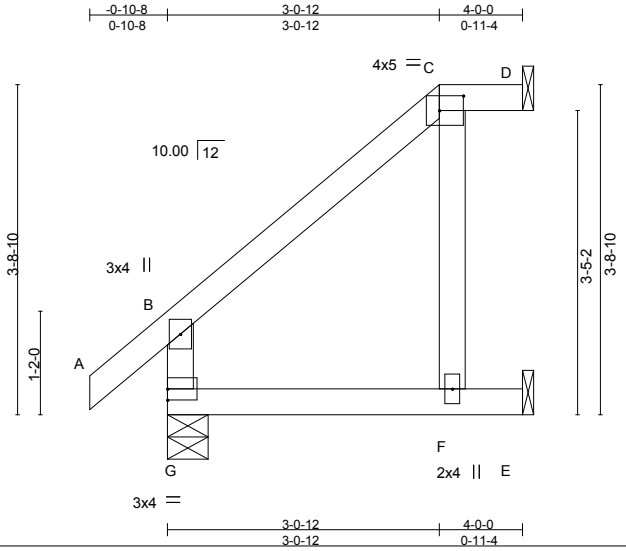

Scale = 1:26.0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.01	F-G	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(TL)	-0.03	F-G	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(TL)	-0.10	D	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.07	F-G	>690	240	Weight: 21 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) D=48/Mechanical, G=221/0-5-8, E=96/Mechanical
Max Horz G=360(LC 8)
Max Uplift D=-41(LC 6), G=-100(LC 8), E=-200(LC 8)
Max Grav D=50(LC 14), G=221(LC 1), E=96(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-F=-73/276

NOTES-
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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D, G except (jt=lb) E=200.
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.

March 20,2017

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29311006
807186_MASTER	J23	Half Hip	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:27 2017 Page 1
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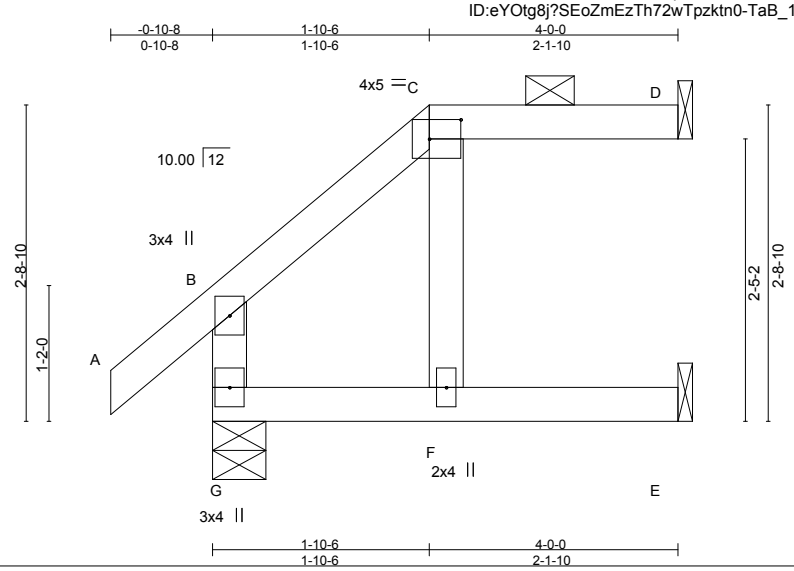

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Plate Offsets (X,Y)-- [C:0-3-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.01	F	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(TL)	-0.03	F	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(TL)	-0.09	D	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.05	F	>936	240	Weight: 19 lb	FT = 20%

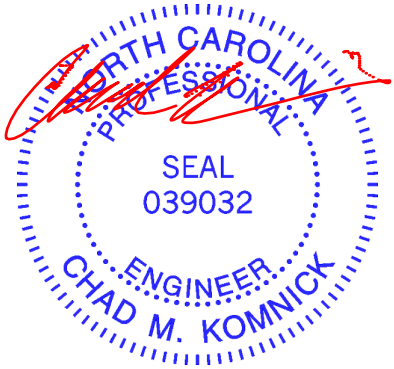
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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) D=85/Mechanical, G=221/0-5-8, E=59/Mechanical
Max Horz G=273(LC 8)
Max Uplift D=-106(LC 9), G=-155(LC 8), E=-55(LC 8)
Max Grav D=85(LC 1), G=221(LC 1), E=66(LC 3)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E except (jt=lb) D=106, G=155.
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.



March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	J24	Half Hip Girder	1	1	I29311007
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:27 2017 Page 1
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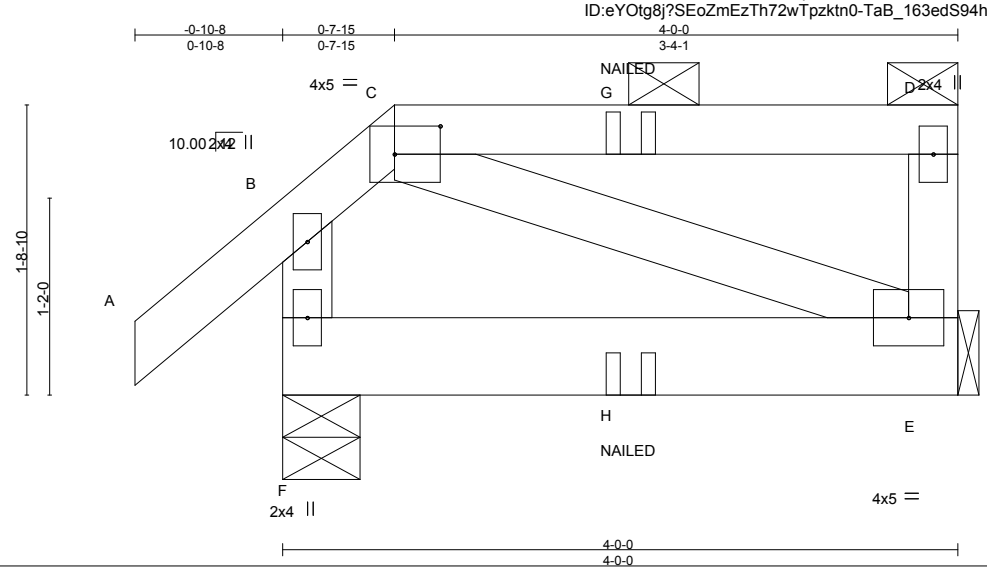

Scale = 1:13.6

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.00	E-F	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	-0.01	E-F	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.01	Horz(TL)	-0.00	E	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-M)		Wind(LL)	0.00	E-F	>999	240	Weight: 25 lb	FT = 20%

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

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

REACTIONS. (lb/size) F=220/0-5-8, E=142/Mechanical
Max Horz F=183(LC 6)
Max Uplift F=-197(LC 6), E=-146(LC 4)
Max Grav F=220(LC 1), E=146(LC 12)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) F=197, E=146.
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).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-60, B-C=-60, C-D=-60, E-F=-20
Concentrated Loads (lb)
Vert: H=-3(B)

March 20,2017

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29311008
807186_MASTER	J25	JACK-OPEN	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:27 2017 Page 1
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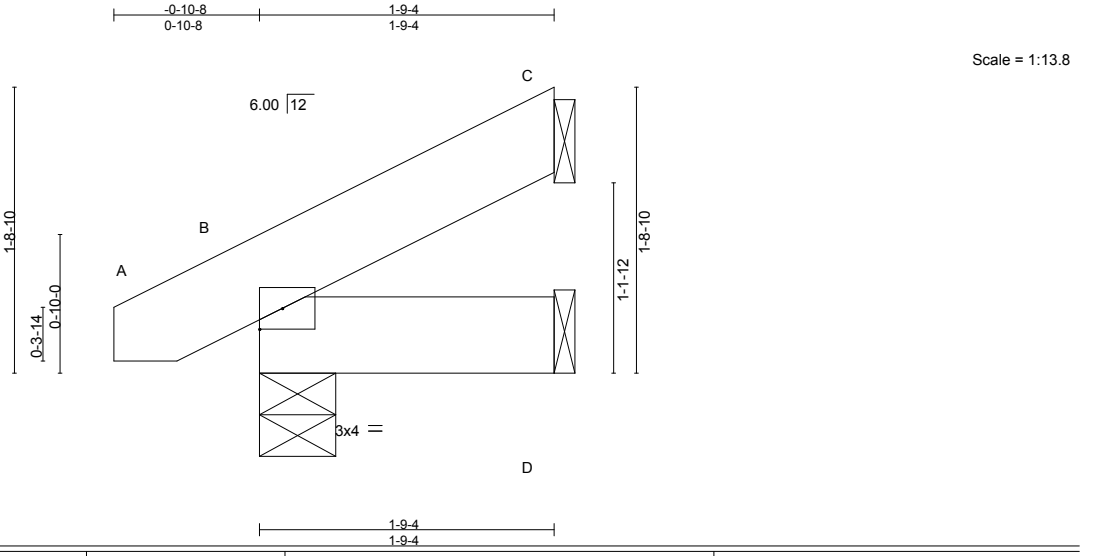

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	-0.00	G	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	-0.00	G	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	C	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-M)		Wind(LL)	0.00	G	>999	240	Weight: 11 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-9-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) C=42/Mechanical, B=119/0-5-8, D=20/Mechanical
Max Horz B=118(LC 8)
Max Uplift C=-71(LC 8), B=-107(LC 8), D=-8(LC 8)
Max Grav C=42(LC 1), B=119(LC 1), D=32(LC 3)

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

NOTES-
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) 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=107.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29311009
807186_MASTER	J26	Jack-Open	3	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:28 2017 Page 1
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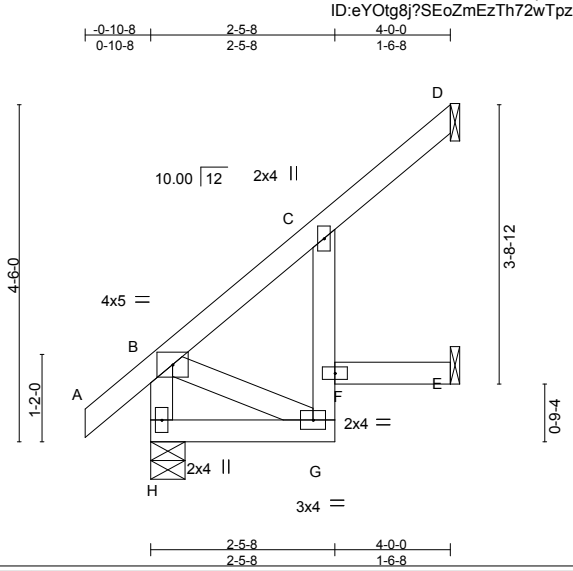

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.03	G	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	-0.07	G	>685	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(TL)	-0.07	D	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.15	G	>301	240	Weight: 24 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) H=221/0-5-8, D=127/Mechanical, E=16/Mechanical
Max Horz H=420(LC 8)
Max Uplift H=-43(LC 8), D=-317(LC 8)
Max Grav H=221(LC 1), D=127(LC 1), E=33(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD G-H=-417/15
WEBS B-G=-17/461

NOTES-
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) 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) H except (jt=lb) D=317.
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.

March 20,2017

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	J27	Half Hip	1	1	I29311010
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:28 2017 Page 1
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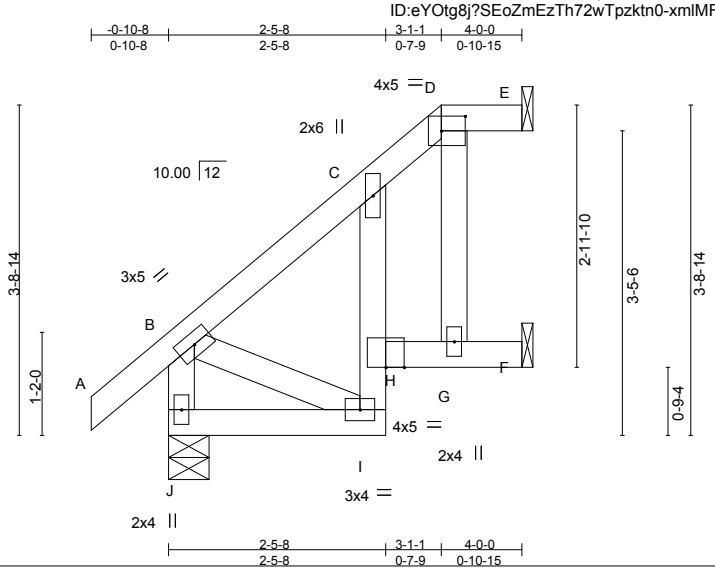

Plate Offsets (X,Y)-- [D:0-3-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.01	H	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(TL)	-0.02	H	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(TL)	-0.04	E	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.04	H	>999	240	Weight: 27 lb	FT = 20%

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

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

REACTIONS. (lb/size) E=51/Mechanical, J=221/0-5-8, F=92/Mechanical
Max Horz J=362(LC 8)
Max Uplift E=-68(LC 8), J=-98(LC 8), F=-162(LC 8)
Max Grav E=51(LC 1), J=221(LC 1), F=92(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD I-J=-349/40

NOTES-
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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E, J except (jt=lb) F=162.
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.

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TRENCO
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29311011
807186_MASTER	J28	Half Hip	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:29 2017 Page 1
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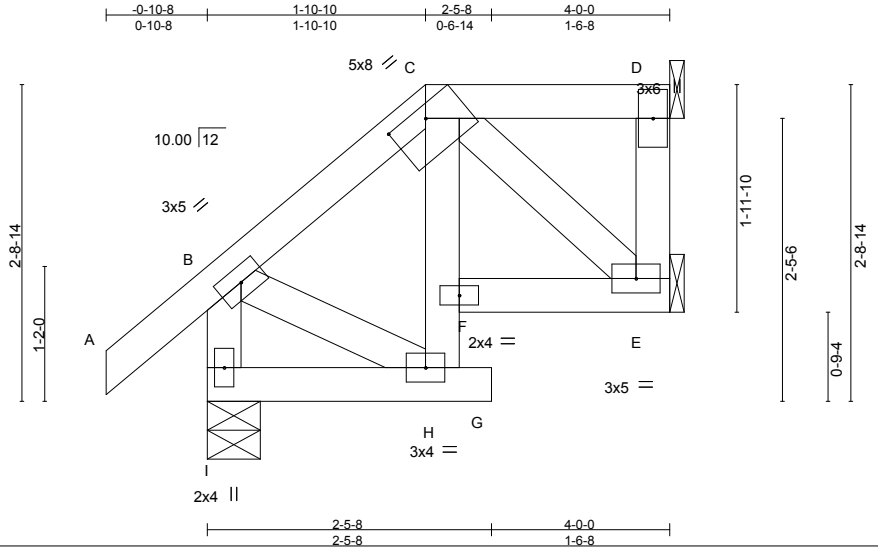

Plate Offsets (X,Y)-- [C:0-4-0,0-1-4]

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	0.19	Vert(LL)	-0.00	H	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(TL)	-0.00	H	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(TL)	-0.02	E	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.01	G	>999	240	Weight: 27 lb	FT = 20%

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

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

REACTIONS. (lb/size) E=86/Mechanical, I=222/0-5-8, D=59/Mechanical
Max Horz I=209(LC 7)
Max Uplift E=-91(LC 7), I=-181(LC 8), D=-88(LC 6)
Max Grav E=98(LC 3), I=222(LC 1), D=59(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-I=-204/300
BOT CHORD H-I=-353/90, E-F=-281/80
WEBS C-E=-105/305

NOTES-
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) 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 metal plate or equivalent at bearing(s) D to support reaction shown.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E, D except (jt=lb) I=181.
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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

March 20,2017

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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29311012
807186_MASTER	J29	Jack-Open	3	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:29 2017 Page 1
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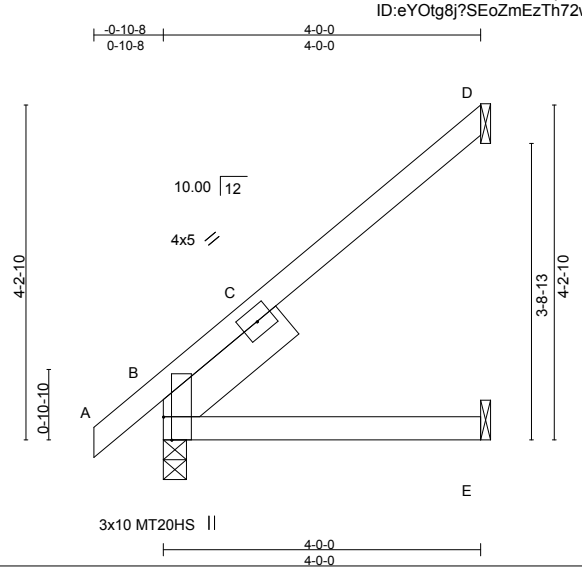

Plate Offsets (X,Y)-- [B:0-3-8,Edge]

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	0.42	Vert(LL)	-0.01	E-H	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(TL)	-0.03	E-H	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.03	D	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.05	E-H	>861	240	Weight: 20 lb	FT = 20%

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

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

REACTIONS. (lb/size) D=101/Mechanical, B=216/0-3-8, E=50/Mechanical
Max Horz B=374(LC 8)
Max Uplift D=-236(LC 8), B=-67(LC 8), E=-40(LC 8)
Max Grav D=101(LC 1), B=216(LC 1), E=71(LC 3)

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

NOTES-
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) 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) 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) B, E except (jt=lb) D=236.
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.

March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	J30	Half Hip	2	1	I29311013
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:30 2017 Page 1
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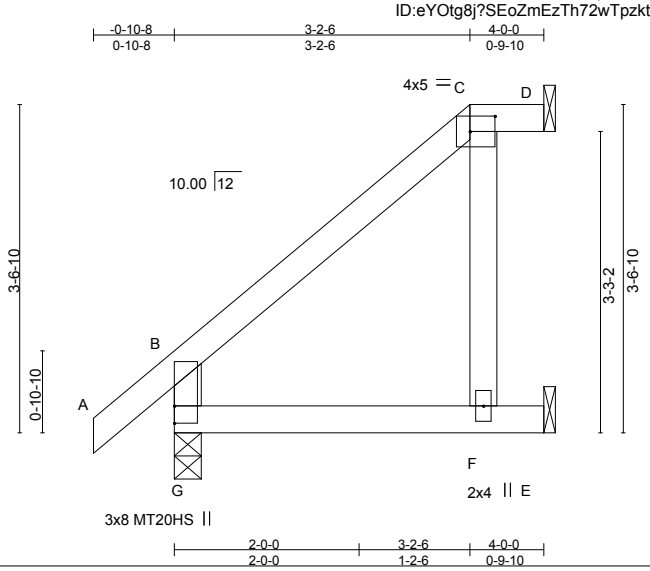

Scale = 1:24.9

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.01	F-G	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(TL)	-0.03	F-G	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(TL)	-0.06	D	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.05	F-G	>836	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) D=36/Mechanical, G=221/0-3-8, E=108/Mechanical
Max Horz G=358(LC 8)
Max Uplift D=-37(LC 6), G=-118(LC 8), E=-217(LC 8)
Max Grav D=43(LC 3), G=221(LC 1), E=108(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-F=-84/300

NOTES-
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) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) G=118, E=217.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and ½" gypsum sheetrock be applied directly to the bottom chord.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

March 20,2017

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	J31	Half Hip	2	1	I29311014
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:30 2017 Page 1
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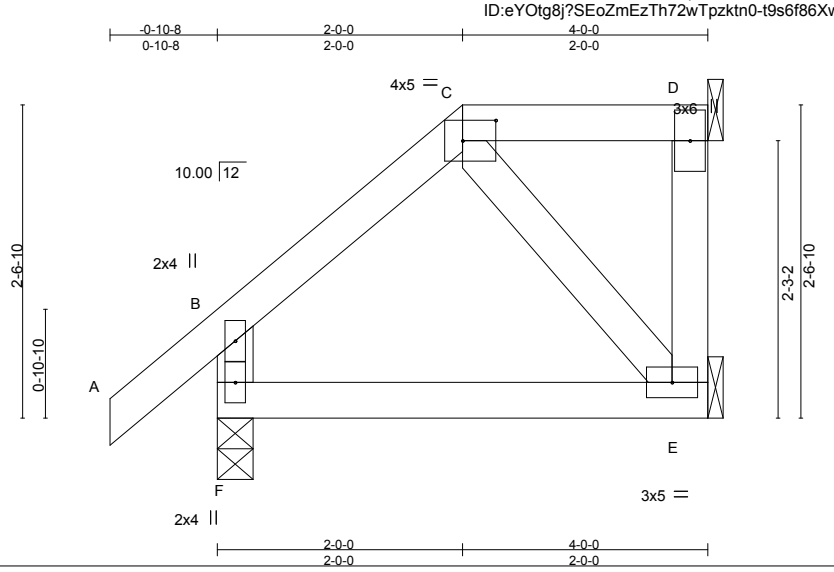

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Plate Offsets (X,Y)-- [C:0-3-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.00	E-F	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	-0.01	E-F	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(TL)	-0.00	D	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.00	E-F	>999	240	Weight: 22 lb	FT = 20%

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

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

REACTIONS. (lb/size) F=218/0-3-8, E=82/Mechanical, D=58/Mechanical
Max Horz F=271(LC 8)
Max Uplift F=-167(LC 8), E=-101(LC 8), D=-95(LC 6)
Max Grav F=218(LC 1), E=88(LC 3), D=58(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-F=-177/264

NOTES-
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) 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 metal plate or equivalent at bearing(s) D to support reaction shown.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) F=167, E=101.
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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29311015
807186_MASTER	J32	Half Hip Girder	2	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:30 2017 Page 1
ID:eYOtg8j?SEoZmEzTh72wTpzktn0-t9s6f86XwNXeYzFU0Hs3zCKvSyQUuYk2Kh?ntWza1W7

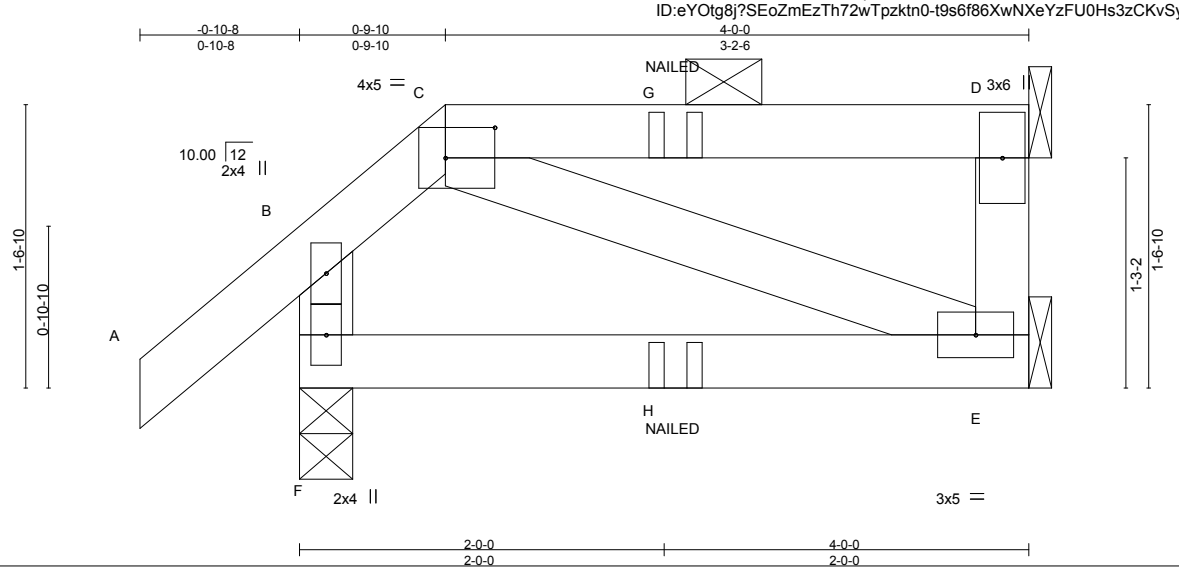

Plate Offsets (X,Y)-- [C:0-3-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.00	E-F	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	-0.01	E-F	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.02	Horz(TL)	0.00	D	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	-0.00	E-F	>999	240	Weight: 21 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 or 4-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: C-D.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) F=219/0-3-8, E=43/Mechanical, D=98/Mechanical
Max Horz F=136(LC 5)
Max Uplift F=-209(LC 6), E=-12(LC 16), D=-147(LC 15)
Max Grav F=219(LC 1), E=76(LC 3), D=98(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide metal plate or equivalent at bearing(s) D to support reaction shown.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E except (jt=lb) F=209, D=147.
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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
13) "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.
14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-60, B-C=-60, C-D=-60, E-F=-20
Concentrated Loads (lb)
Vert: H=-2(B)

March 20,2017

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	J33	Jack-Open	2	1	I29311016
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:31 2017 Page 1
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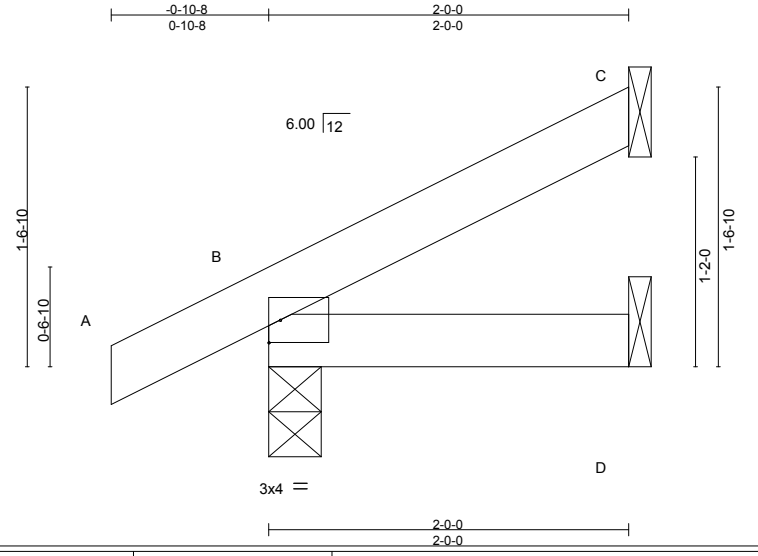

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.00	G	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	-0.00	D-G	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	C	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-M)		Wind(LL)	0.00	D-G	>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 2-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) C=48/Mechanical, B=146/0-3-8, D=20/Mechanical
Max Horz B=141(LC 8)
Max Uplift C=-75(LC 8), B=-148(LC 8)
Max Grav C=48(LC 1), B=146(LC 1), D=35(LC 3)

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

NOTES-
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) 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 except (jt=lb) B=148.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

March 20,2017

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29311017
807186_MASTER	J34	Jack-Open	1	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:31 2017 Page 1
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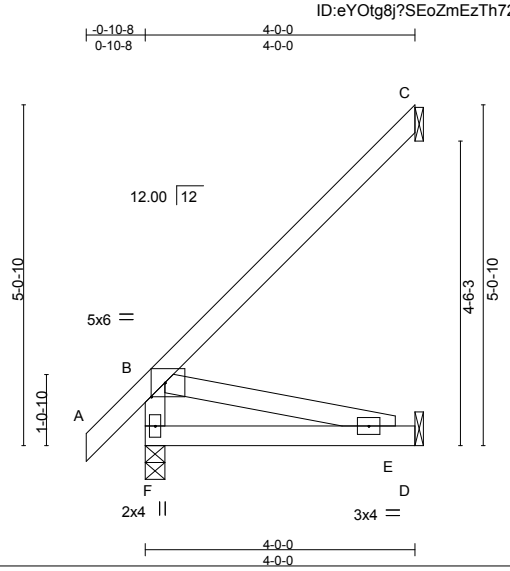

Plate Offsets (X,Y)-- [B:0-2-7,Edge]

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	0.54	Vert(LL)	-0.01	E-F	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	-0.03	E-F	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(TL)	-0.01	C	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.01	E-F	>999	240	Weight: 23 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) F=221/0-3-8, C=106/Mechanical, D=38/Mechanical
Max Horz F=491(LC 8)
Max Uplift C=-275(LC 8), D=-83(LC 8)
Max Grav F=221(LC 1), C=106(LC 1), D=76(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-258/59
BOT CHORD E-F=-487/11
WEBS B-E=-12/500

NOTES-
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) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) C=275.
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.

March 20,2017

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29311018
807186_MASTER	J35	Half Hip	2	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:32 2017 Page 1
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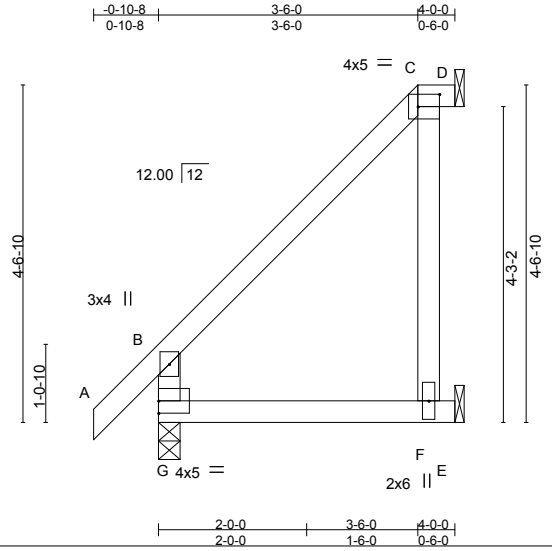

Plate Offsets (X,Y)-- [C:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.01	F-G	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(TL)	-0.03	F-G	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(TL)	-0.10	D	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.08	F-G	>598	240	Weight: 23 lb	FT = 20%

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

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

REACTIONS. (lb/size) D=-32/Mechanical, G=221/0-3-8, E=175/Mechanical
Max Horz G=458(LC 8)
Max Uplift D=-56(LC 6), G=-30(LC 8), E=-529(LC 8)
Max Grav D=221(LC 8), G=221(LC 1), E=175(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-F=-149/624

NOTES-
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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D, G except (jt=lb) E=529.
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.

March 20,2017

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	J36	Half Hip	2	1	I29311019
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:32 2017 Page 1
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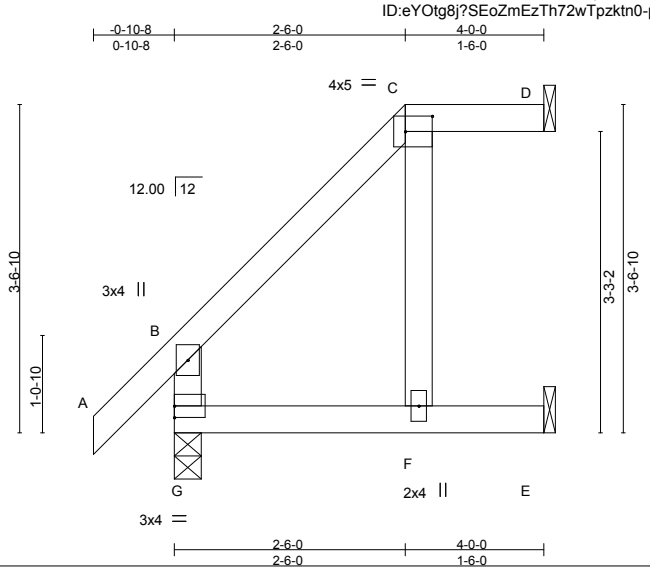

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Plate Offsets (X,Y)-- [C:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.01	F	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(TL)	-0.03	F-G	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(TL)	-0.12	D	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.07	F-G	>658	240	Weight: 21 lb	FT = 20%

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

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

REACTIONS. (lb/size) D=70/Mechanical, G=221/0-3-8, E=74/Mechanical
Max Horz G=371(LC 8)
Max Uplift D=-84(LC 9), G=-110(LC 8), E=-127(LC 8)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) G=110, E=127.
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.

March 20,2017

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29311020
807186_MASTER	J37	Half Hip	2	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:32 2017 Page 1
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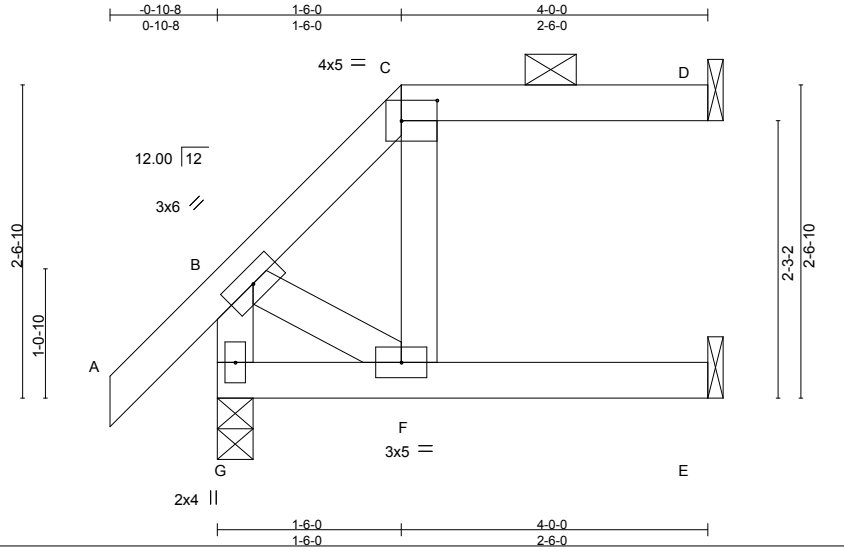

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Plate Offsets (X,Y)-- [C:0-3-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.01	F	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(TL)	-0.04	E-F	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(TL)	-0.09	D	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.06	E-F	>727	240	Weight: 21 lb	FT = 20%

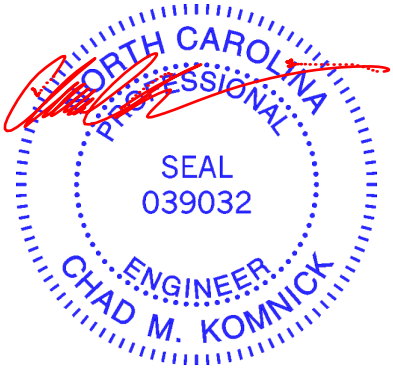
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: C-D.
BOT CHORD Rigid ceiling directly applied or 9-7-6 oc bracing.

REACTIONS. (lb/size) D=73/Mechanical, G=221/0-3-8, E=70/Mechanical
Max Horz G=284(LC 8)
Max Uplift D=-110(LC 6), G=-160(LC 8), E=-67(LC 8)
Max Grav D=73(LC 1), G=221(LC 1), E=87(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD F-G=-266/0
WEBS B-F=0/299

NOTES-
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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E except (jt=lb) D=110, G=160.
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.



March 20,2017

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TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29311021
807186_MASTER	J38	Half Hip Girder	2	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:33 2017 Page 1
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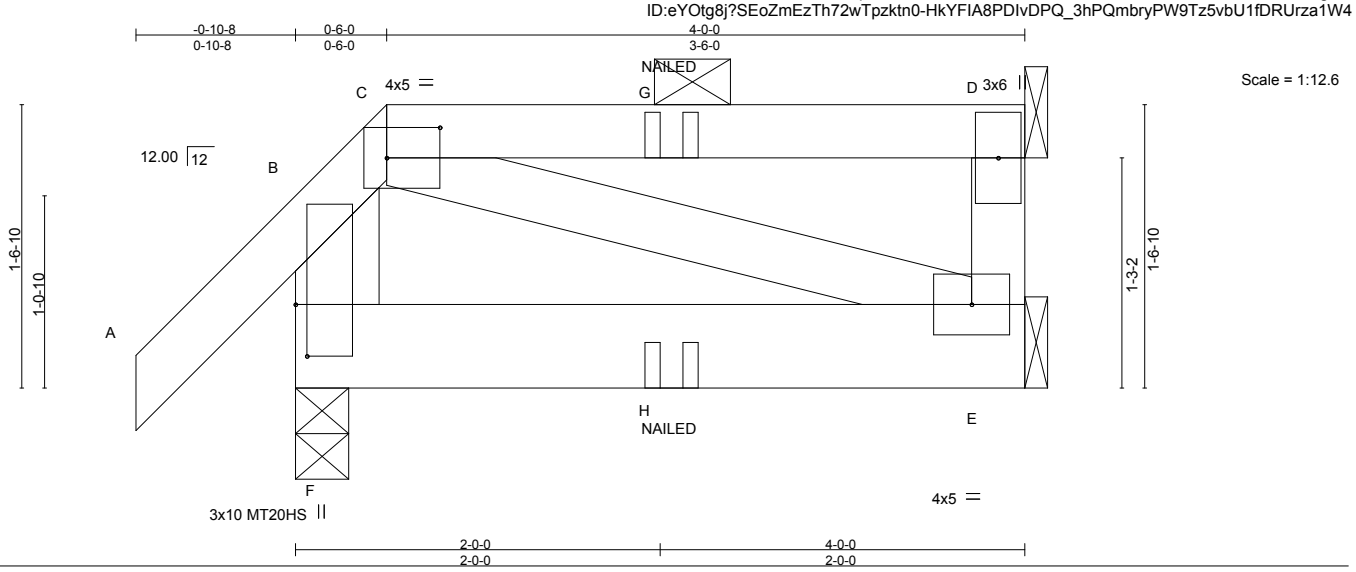

Plate Offsets (X,Y)-- [C:0-3-8,0-2-0], [F:0-3-6,0-0-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.00	E-F	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	-0.00	E-F	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.01	Horz(TL)	0.00	D	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	-0.00	E-F	>999	240	Weight: 25 lb	FT = 20%

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

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

REACTIONS. (lb/size) F=212/0-3-8, E=34/Mechanical, D=102/Mechanical
Max Horz F=144(LC 13)
Max Uplift F=-208(LC 6), E=-1(LC 12), D=-153(LC 11)
Max Grav F=212(LC 1), E=71(LC 3), D=102(LC 1)

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

NOTES-
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; end vertical left and right 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 metal plate or equivalent at bearing(s) D to support reaction shown.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E except (jt=lb) F=208, D=153.
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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
13) "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.
14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-60, B-C=-20, C-D=-60, E-F=-20
Concentrated Loads (lb)
Vert: H=-2(B)

March 20,2017

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	K01	ATTIC	1	1	I29311022
					Job Reference (optional)

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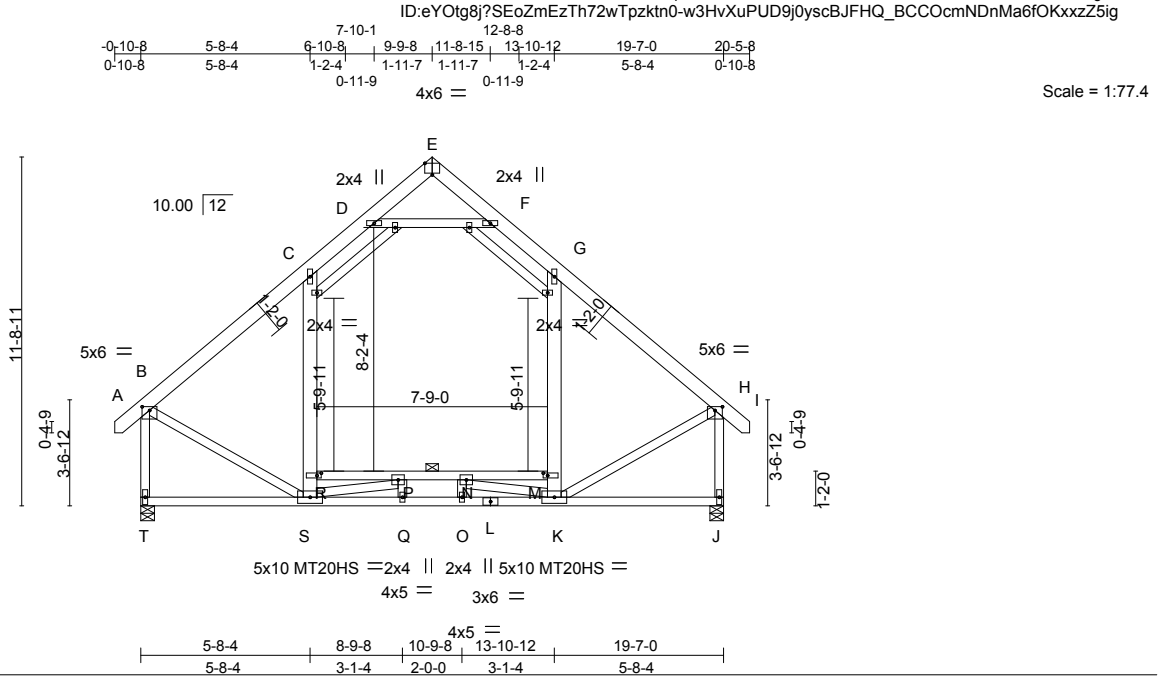

Plate Offsets (X,Y)-- [B:0-3-0,0-1-8], [E:0-3-0,Edge], [H:0-3-0,0-1-8], [M:0-1-12,0-1-0], [R:0-1-12,0-1-0]

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	0.61	Vert(LL)	-0.09	M-N	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(TL)	-0.18	M-N	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(TL)	0.03	J	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.26	S	>874	240	Weight: 196 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
U-V,W-X: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
G-K,C-S: 2x6 SP No.2, D-F: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied. Except:
5-8-0 oc bracing: M-R

REACTIONS. (lb/size) T=1059/0-5-8 (min. 0-1-8), J=1059/0-5-8 (min. 0-1-8)
Max Horz T=-843(LC 6)
Max Uplift T=-386(LC 8), J=-386(LC 9)
Max Grav T=1200(LC 2), J=1200(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-972/405, C-D=-661/540, F-G=-661/542, G-H=-972/404, B-T=-1152/539, H-J=-1152/541
BOT CHORD S-T=-804/821, Q-S=0/1627, O-Q=0/1627, L-O=0/1627, K-L=0/1627, P-R=-719/792, N-P=-1062/0, M-N=-764/837
WEBS G-M=-37/343, C-R=-37/343, D-F=-872/805, B-S=-158/715, H-K=-163/715, P-S=-1180/585, K-N=-1180/539

NOTES-

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) All plates are 2x6 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Ceiling dead load (5.0 psf) on member(s). C-D, F-G, D-F; Wall dead load (5.0psf) on member(s).G-M, C-R
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. P-R, N-P, M-N
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 386 lb uplift at joint T and 386 lb uplift at joint J.
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) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

March 20,2017

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	K02	ATTIC	6	1	I29311023
					Job Reference (optional)

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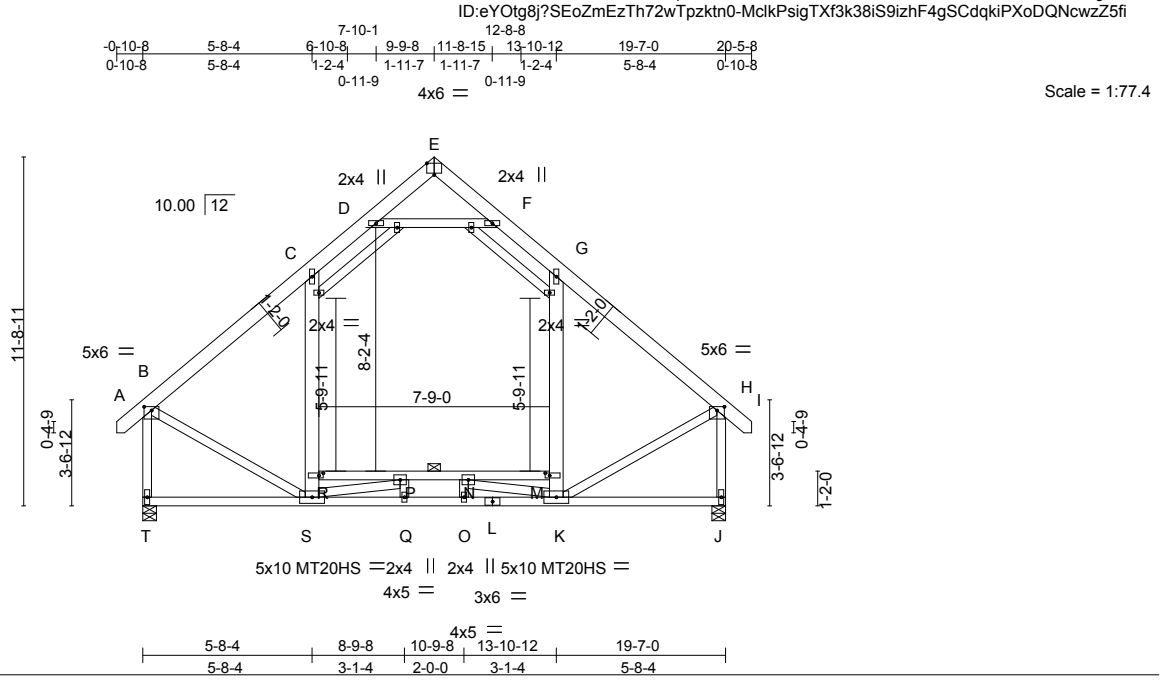

Plate Offsets (X,Y)-- [B:0-3-0,0-1-8], [E:0-3-0,Edge], [H:0-3-0,0-1-8], [M:0-1-12,0-1-0], [R:0-1-12,0-1-0]

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	0.61	Vert(LL)	-0.09	M-N	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(TL)	-0.18	M-N	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(TL)	0.03	J	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.26	S	>874	240	Weight: 196 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
U-V,W-X: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
G-K,C-S: 2x6 SP No.2, D-F: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied. Except:
5-8-0 oc bracing: M-R

REACTIONS. (lb/size) T=1059/0-5-8 (min. 0-1-8), J=1059/0-5-8 (min. 0-1-8)
Max Horz T=-843(LC 6)
Max Uplift T=-386(LC 8), J=-386(LC 9)
Max Grav T=1200(LC 2), J=1200(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-972/405, C-D=-661/540, F-G=-661/542, G-H=-972/404, B-T=-1152/539, H-J=-1152/541
BOT CHORD S-T=-804/821, Q-S=0/1627, O-Q=0/1627, L-O=0/1627, K-L=0/1627, P-R=-719/792, N-P=-1062/0, M-N=-764/837
WEBS G-M=-37/343, C-R=-37/343, D-F=-872/805, B-S=-158/715, H-K=-163/715, P-S=-1180/585, K-N=-1180/539

NOTES-

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) All plates are 2x6 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Ceiling dead load (5.0 psf) on member(s). C-D, F-G, D-F; Wall dead load (5.0psf) on member(s).G-M, C-R
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. P-R, N-P, M-N
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 386 lb uplift at joint T and 386 lb uplift at joint J.
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) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

March 20,2017

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	L01	Hip Girder	1	1	I29311024
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:35 2017 Page 1
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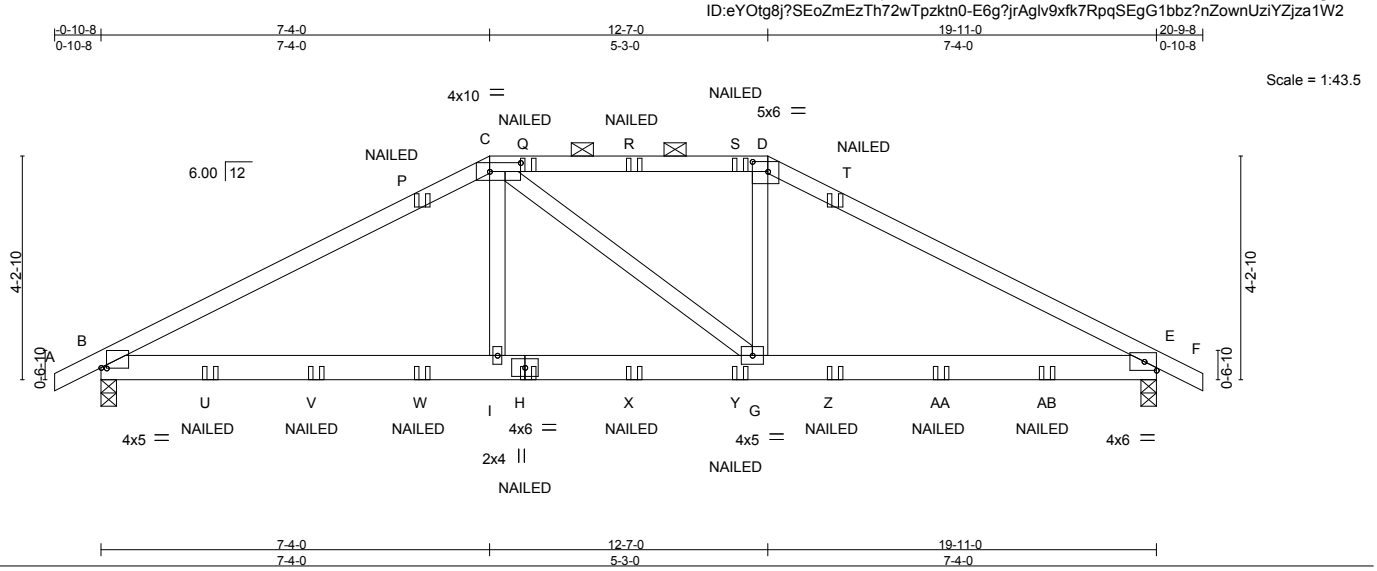

Plate Offsets (X,Y)-- [B:0-1-4,0-0-2], [C:0-7-0,0-2-0], [D:0-3-8,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.06	G-O	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(TL)	-0.15	I-L	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.08	Horz(TL)	-0.04	E	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-M)		Wind(LL)	0.18	I-L	>999	240	Weight: 101 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins, except 2-0-0 oc purlins (4-7-0 max.): C-D.
BOT CHORD Rigid ceiling directly applied or 5-2-2 oc bracing.

REACTIONS. (lb/size) B=1136/0-3-8, E=1138/0-3-8
Max Horz B=130(LC 6)
Max Uplift B=-1328(LC 6), E=-1333(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-P=-1728/2036, C-P=-1575/2055, C-Q=-1473/1981, Q-R=-1473/1981, R-S=-1473/1981, D-S=-1473/1981, D-T=-1579/2065, E-T=-1732/2047
BOT CHORD B-U=-1718/1457, U-V=-1718/1457, V-W=-1718/1457, I-W=-1718/1457, H-I=-1731/1469, H-X=-1731/1469, X-Y=-1731/1469, G-Y=-1731/1469, G-Z=-1645/1461, Z-AA=-1645/1461, AA-AB=-1645/1461, E-AB=-1645/1461
WEBS C-I=-324/366, D-G=-328/368

NOTES-
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; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=1328, E=1333.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) "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.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-C=-60, C-D=-60, D-F=-60, J-M=-20
Concentrated Loads (lb)
Vert: H=-30(B) P=-4(B) Q=-41(B) R=-41(B) S=-41(B) T=-4(B) U=-27(B) V=-62(B) W=-88(B) X=-30(B) Y=-30(B) Z=-88(B) AA=-62(B) AB=-27(B)

March 20,2017

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TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	L02	COMMON	3	1	I29311025
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:36 2017 Page 1
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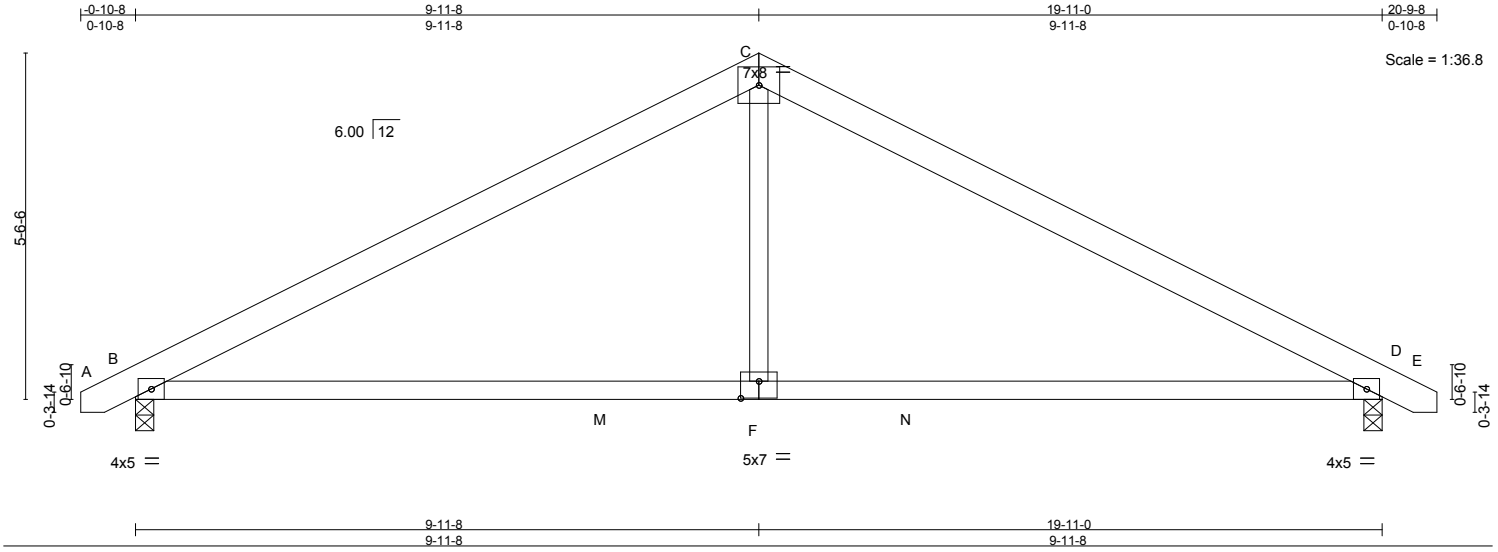

Plate Offsets (X,Y)-- [F:0-3-8,0-3-4]

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	0.62	Vert(LL)	-0.13	F-L	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(TL)	-0.36	F-L	>663	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(TL)	0.03	D	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-S)		Wind(LL)	0.21	F-I	>999	240	Weight: 94 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=838/0-3-8, D=838/0-3-8
Max Horz B=-157(LC 9)
Max Uplift B=-620(LC 8), D=-620(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1104/966, C-D=-1104/966
BOT CHORD B-M=-588/931, F-M=-588/931, F-N=-588/931, D-N=-588/931
WEBS C-F=0/408

NOTES-
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, 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) B=620, D=620.
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.

March 20,2017

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	L03	GABLE	1	1	I29311026
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

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0-10-8 | 5-11-11 | 13-11-5 | 19-11-0 | 20-9-8
0-10-8 | 5-11-11 | 7-11-10 | 5-11-11 | 0-10-8

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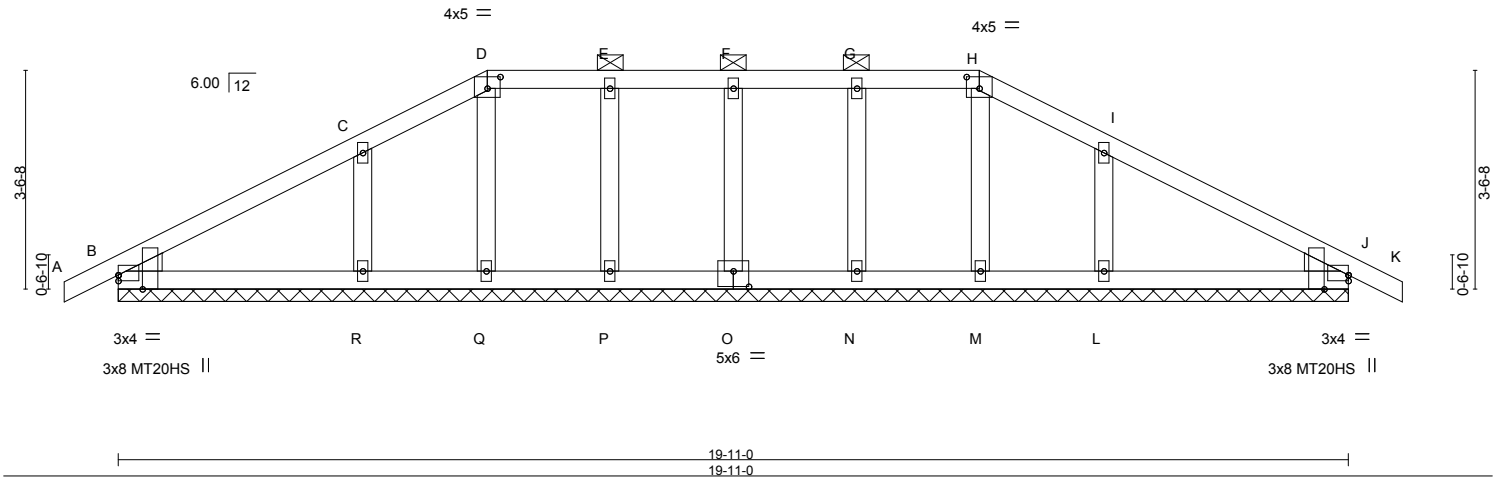

19-11-0
19-11-0

Plate Offsets (X,Y)-- [B:0-0-0,0-1-2], [B:0-2-12,Edge], [D:0-2-8,0-2-4], [H:0-2-8,0-2-4], [J:0-2-12,Edge], [J:0-0-0,0-1-2], [O: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	0.23	Vert(LL)	0.00	K	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	0.01	K	n/r	120	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(TL)	0.00	J	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix)							Weight: 94 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.3, Right: 2x4 SP No.3

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

REACTIONS. All bearings 19-11-0.
(lb) - Max Horz B=-100(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) Q, M except B=-175(LC 8), O=-122(LC 6), P=-139(LC 7), R=-338(LC 8), N=-138(LC 6), L=-336(LC 9), J=-199(LC 9)
Max Grav All reactions 250 lb or less at joint(s) B, O, P, Q, N, M, J except R=313(LC 13), L=313(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-R=-223/405, I-L=-223/405

NOTES-
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) Q, M except (jt=lb) B=175, O=122, P=139, R=338, N=138, L=336, J=199.
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.

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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	L04	HIP	1	1	I29311027
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:37 2017 Page 1
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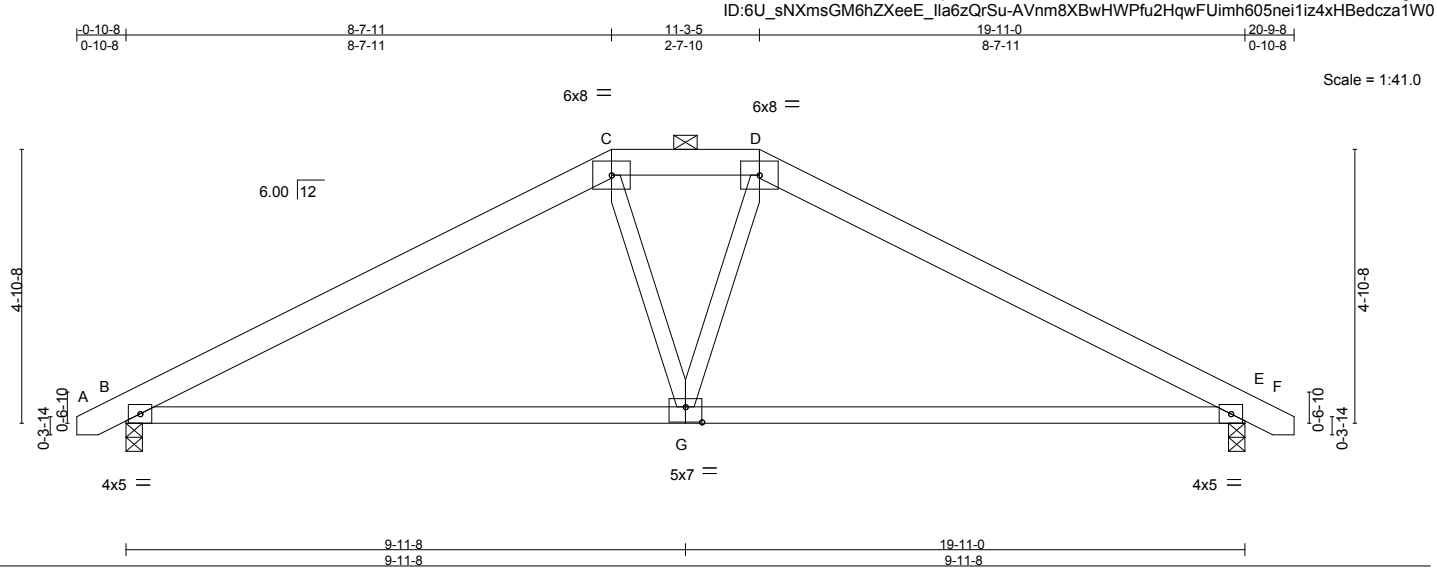

Plate Offsets (X,Y)-- [G:0-3-8,0-3-4]

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	0.53	Vert(LL)	-0.13	G-M	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(TL)	-0.35	G-M	>680	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(TL)	0.03	E	n/a	n/a		
BCDL	10.0	Code	IRC2009/TPI2007	(Matrix-S)		Wind(LL)	0.15	G-J	>999	240	Weight: 99 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, except 2-0-0 oc purlins (6-0-0 max.): C-D.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (lb/size) B=838/0-3-8, E=838/0-3-8
Max Horz B=-140(LC 9)
Max Uplift B=-605(LC 8), E=-605(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1116/981, C-D=-965/1055, D-E=-1116/981
BOT CHORD B-G=-619/933, E-G=-621/933
WEBS C-G=-86/266, D-G=-86/266

NOTES-
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=605, E=605.
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.

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Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/ I29311028
807186_MASTER	L05	HIP GIRDER	1	1	Job Reference (optional)

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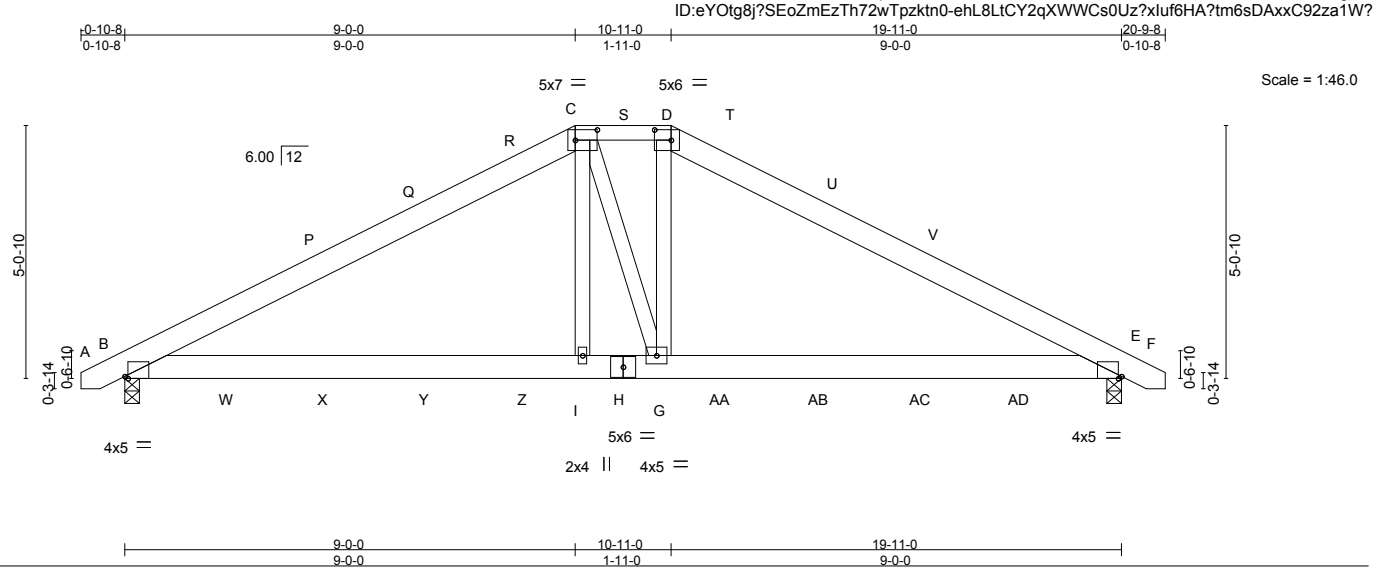


Plate Offsets (X,Y)-- [B:0-0-12,Edge], [C:0-5-4,0-2-8], [D:0-4-0,0-2-8], [E:0-0-12,Edge]

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	0.89	Vert(LL)	-0.08	I-L	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(TL)	-0.21	I-L	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.26	Horz(TL)	-0.04	E	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix-M)		Wind(LL)	0.28	I-L	>844	240	Weight: 121 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-7-12 oc purlins, except 2-0-0 oc purlins (4-7-7 max.): C-D.
BOT CHORD Rigid ceiling directly applied or 4-4-8 oc bracing.

REACTIONS. (lb/size) B=1167/0-3-8, E=1167/0-3-8
Max Horz B=-147(LC 25)
Max Uplift B=-1590(LC 6), E=-1591(LC 7)

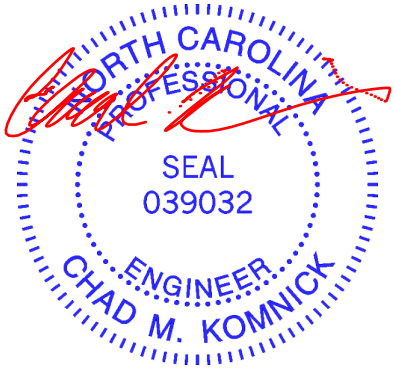
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD B-P=-1633/2415, P-Q=-1515/2392, Q-R=-1479/2381, C-R=-1424/2404, C-S=-1364/2323, D-S=-1364/2323, D-T=-1430/2416, T-U=-1485/2396, U-V=-1521/2408, E-V=-1639/2431
BOT CHORD B-W=-1998/1348, W-X=-1998/1348, X-Y=-1998/1348, Y-Z=-1998/1348, I-Z=-1998/1348, H-I=-2019/1359, G-H=-2019/1359, G-AA=-1974/1353, AA-AB=-1974/1353, AB-AC=-1974/1353, AC-AD=-1974/1353, E-AD=-1974/1353
WEBS C-I=-689/378, D-G=-716/420

NOTES-

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; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=1590, E=1591.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 53 lb down and 96 lb up at 4-0-12, 50 lb down and 74 lb up at 6-0-12, 306 lb down and 74 lb up at 8-0-12, 131 lb down and 249 lb up at 10-0-12, 306 lb down and 74 lb up at 11-10-4, and 50 lb down and 74 lb up at 13-10-4, and 53 lb down and 96 lb up at 15-10-4 on top chord, and 31 lb down and 14 lb up at 2-0-12, 50 lb down and 82 lb up at 4-0-12, 54 lb down and 139 lb up at 6-0-12, 155 lb down and 541 lb up at 8-0-12, 36 lb down and 95 lb up at 10-0-12, 155 lb down and 541 lb up at 11-10-4, 54 lb down and 139 lb up at 13-10-4, and 50 lb down and 82 lb up at 15-10-4, and 31 lb down and 14 lb up at 17-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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



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Continued on page 2

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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: A-C=-60, C-D=-60, D-F=-60, J-M=-20

Concentrated Loads (lb)

Vert: H=-18(B) P=-13(B) Q=-11(B) S=-46(B) U=-11(B) V=-13(B) W=-14(B) X=-50(B) Y=-54(B) Z=-155(B) AA=-155(B) AB=-54(B) AC=-50(B) AD=-14(B)

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Redbud/
807186_MASTER	PB01	GABLE	1	1	I29311029
					Job Reference (optional)

Builders FirstSource, Sumter, SC 29153

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:38 2017 Page 1
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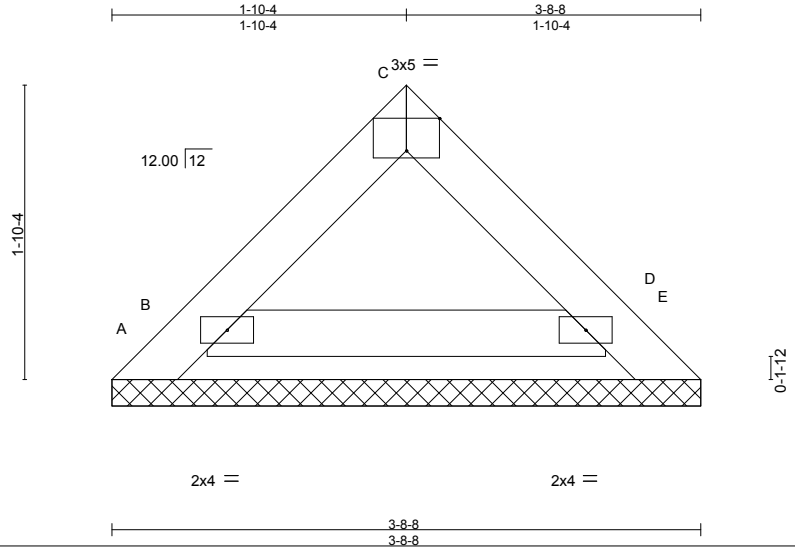

Scale = 1:14.5

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	D	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 12 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 3-8-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 3-8-8.
(lb) - Max Horz A=-108(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) A, E except B=-169(LC 8), D=-137(LC 9)
Max Grav All reactions 250 lb or less at joint(s) A, E, B, D

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

NOTES- (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) 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) Bearing at joint(s) A, B 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) A, E except (jt=lb) B=169, D=137.
11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
13) 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/Redbud/ I29311030
807186_MASTER	PB02	GABLE	6	1	Job Reference (optional)

Builders FirstSource, Sumter, SC 29153 — 7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 17 12:14:39 2017 Page 1
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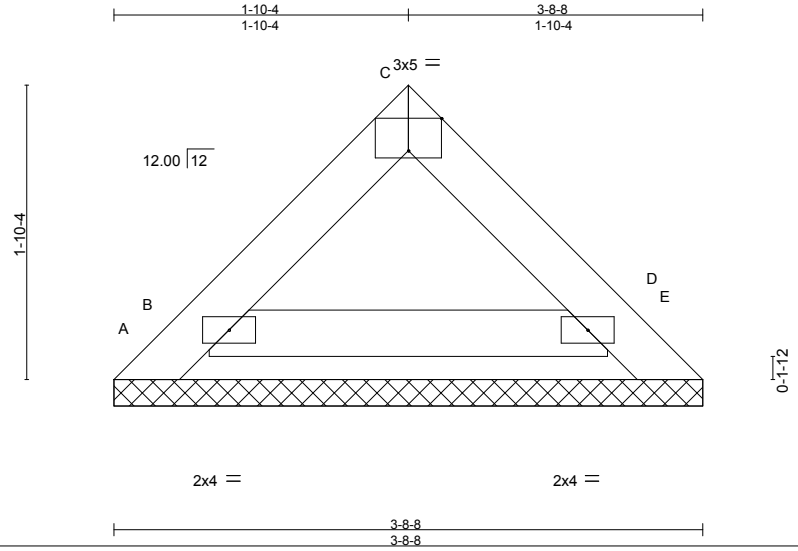

Plate Offsets (X,Y)-- [C:0-2-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	D	n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		(Matrix)							Weight: 12 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 3-8-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 3-8-8.
(lb) - Max Horz A=-108(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) A, E except B=-169(LC 8), D=-137(LC 9)
Max Grav All reactions 250 lb or less at joint(s) A, E, B, D

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

NOTES- (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) 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) Bearing at joint(s) A, B 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) A, E except (jt=lb) B=169, D=137.
11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
13) 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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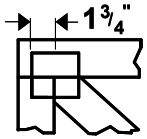
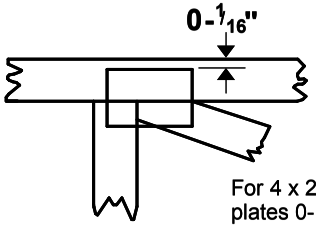
Symbols

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.

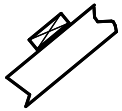
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

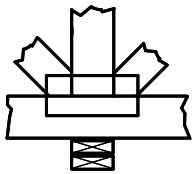
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

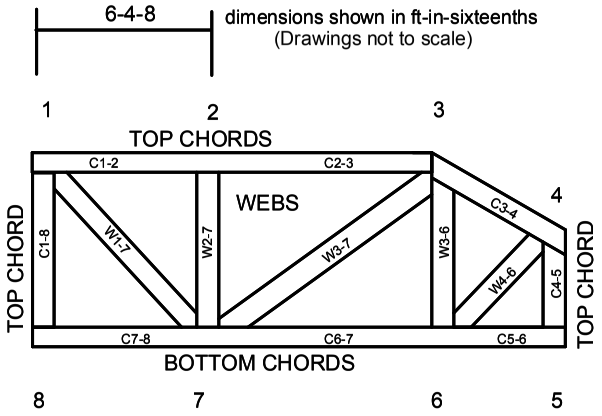


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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.