

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 19-114808T
KEN DAWSON PLAN 1341

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Stock Building Supply.

Pages or sheets covered by this seal: T18803234 thru T18803248

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

North Carolina COA: C-0844



December 4, 2019

O'Regan, Philip

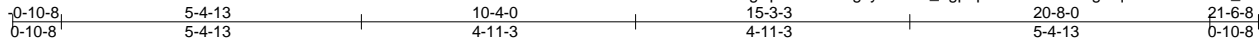
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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.

Job	Truss	Truss Type	Qty	Ply	KEN DAWSON PLAN 1341	T18803235
19-114808T	A02	Common	4	1	Job Reference (optional)	

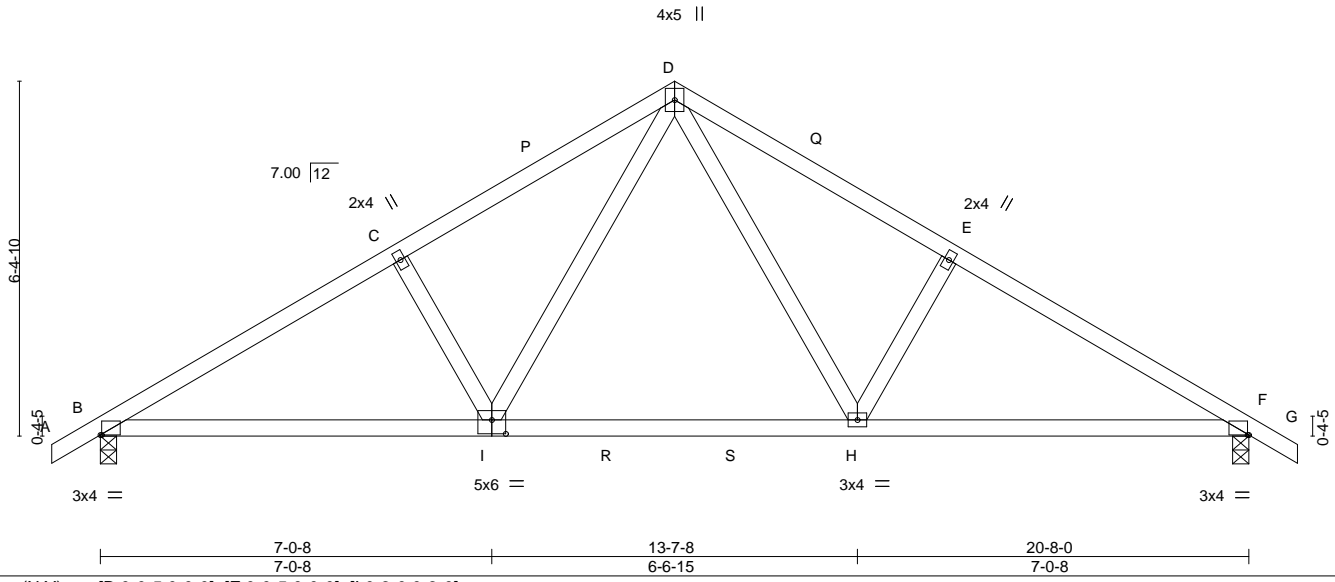
BMC (Middlesex, NC), Middlesex, NC - 27557,

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Dec 3 17:26:39 2019 Page 1

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Scale = 1:41.5



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.26	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 10.4/15.0	Plate Grip DOL 1.00	BC 0.35	Vert(LL) -0.07 H-I >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.20	Vert(CT) -0.12 H-O >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.03 F n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 99 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 5-3-8 oc purlins.
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) B=664/0-3-8, F=664/0-3-8
 Max Horz B=138(LC 13)
 Max Uplift B=-57(LC 14), F=-57(LC 15)
 Max Grav B=879(LC 2), F=879(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1283/145, C-D=-1160/179, D-E=-1160/179, E-F=-1283/145
 BOT CHORD B-I=-85/1118, H-I=0/721, F-H=-38/1072
 WEBS D-H=-65/524, E-H=-309/152, D-I=-65/523, C-I=-309/152

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - TCCL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pg=15.0 psf (ground snow); Pf=10.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, F.



December 4, 2019

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

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

ENGINEERING BY
TRENCO
 A MITEK Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	KEN DAWSON PLAN 1341	T18803236
19-114808T	A03	Common Structural Gable	1	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

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ID:9ohifRTV SugSpHSw?zcUgvyCcmY-wRnaCVPmkB_NU5nFRGiEv9kbtQjY?CvrS9fN2nyCcDC

-0-10-8	6-11-1	13-4-8	19-9-15	26-9-0	27-7-8
0-10-8	6-11-1	6-5-7	6-5-7	6-11-1	0-10-8

Scale = 1:57.9

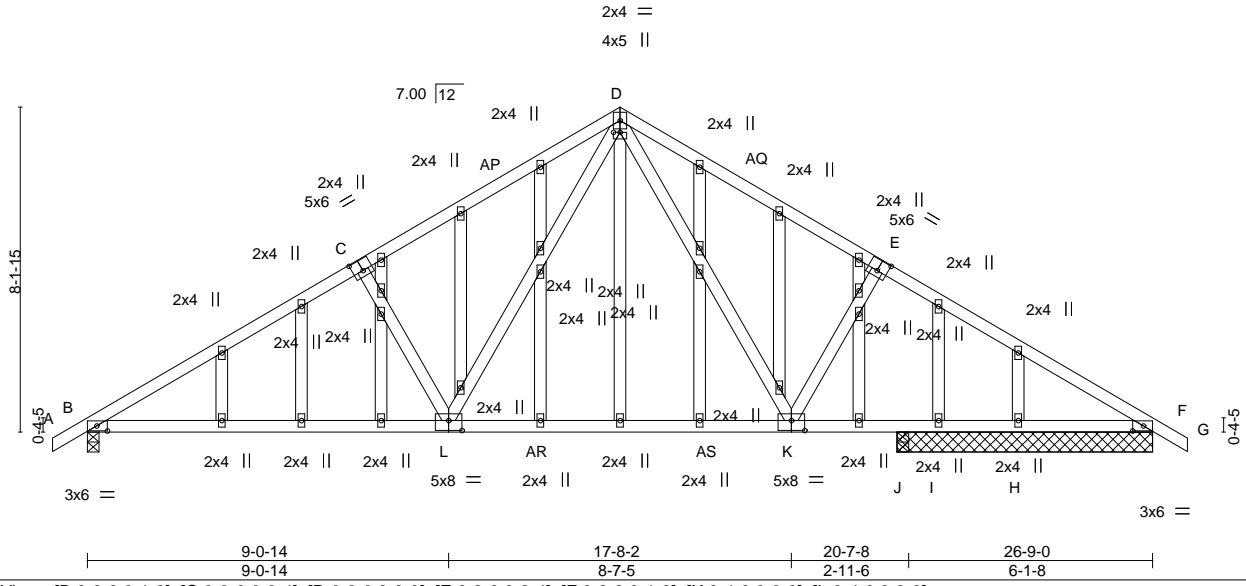


Plate Offsets (X, Y)-- [B:0-3-3,0-1-8], [C:0-3-0,0-3-4], [D:0-2-0,0-0-0], [E:0-3-0,0-3-4], [F:0-3-3,0-1-8], [K:0-4-0,0-3-0], [L:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.62	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 10.4/15.0	Plate Grip DOL 1.00	BC 0.85	Vert(LL) -0.23 K-L >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.27	Vert(CT) -0.38 K-L >647 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.05 AM n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 198 lb	FT = 20%

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

REACTIONS. All bearings 6-5-0 except (jt=length) B=0-3-8, J=0-3-8.
 (lb) - Max Horz B=175(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) B, H, F, J except I=251(LC 2)
 Max Grav All reactions 250 lb or less at joint(s) I, H except B=1078(LC 2), F=940(LC 29), J=303(LC 2), F=686(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1604/191, C-D=-1469/235, D-E=-1376/237, E-F=-1528/193
 BOT CHORD B-L=-120/1456, K-L=0/911, J-K=-63/1234, I-J=-63/1234, H-I=-63/1234, F-H=-63/1234
 WEBS D-K=-92/576, E-K=-376/201, D-L=-82/730, C-L=-403/200

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 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.
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pg=15.0 psf (ground snow); Pf=10.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, H, F, J, F except (jt=lb) I=251.



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Edenton, NC 27932

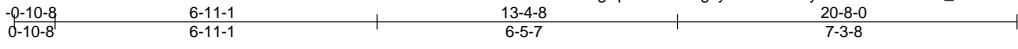
Job 19-114808T	Truss A04	Truss Type Common	Qty 7	Ply 1	KEN DAWSON PLAN 1341	T18803237
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BMC (Middlesex, NC),

Middlesex, NC - 27557,

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4x5 =

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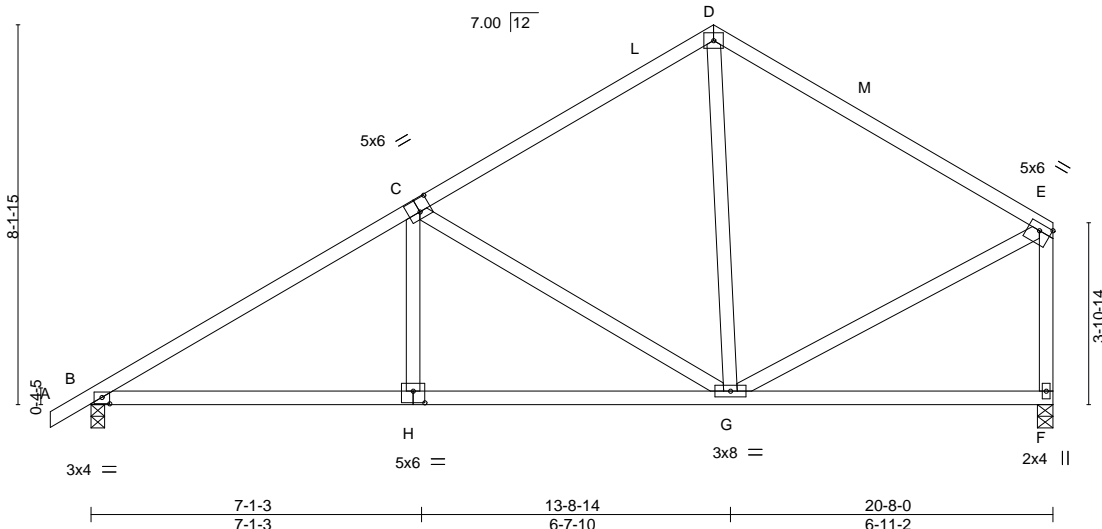


Plate Offsets (X,Y)-- [B:0-2-0,0-1-10], [C:0-3-0,0-3-4], [E:Edge,0-1-12], [H:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.63	Vert(LL)	-0.06	H-K	>999	240	MT20	244/190
Snow (Pf/Pg)	10.4/15.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.14	H-K	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.02	F	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 113 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-0-15 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) B=660/0-3-8, F=623/0-4-0
 Max Horz B=134(LC 11)
 Max Grav B=874(LC 2), F=820(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1246/115, C-D=-681/126, D-E=-692/115, E-F=-757/115
 BOT CHORD B-H=-131/1004, G-H=-132/1001
 WEBS C-H=0/290, C-G=-606/134, D-G=0/321, E-G=-4/525

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pg=15.0 psf (ground snow); Pf=10.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other 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.



December 4, 2019

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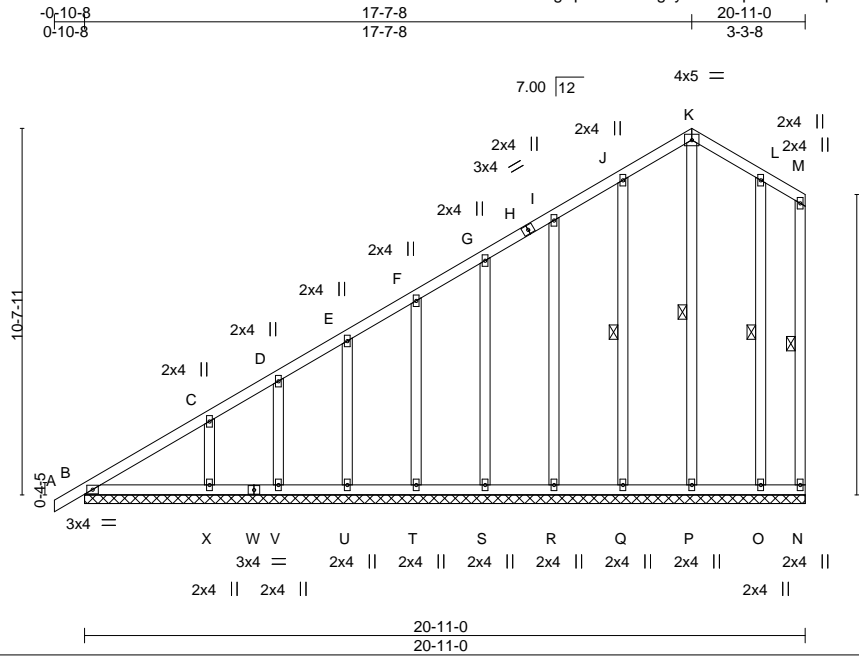
818 Soundside Road
 Edenton, NC 27932

Job 19-114808T	Truss A05	Truss Type Common Supported Gable	Qty 1	Ply 1	KEN DAWSON PLAN 1341	T18803238
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BMC (Middlesex, NC), Middlesex, NC - 27557,

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Scale = 1:66.9

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.14	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 10.4/15.0	Plate Grip DOL 1.00	BC 0.09	Vert(LL) -0.00 A n/r 120		
TCDL 10.0	Lumber DOL 1.15	WB 0.15	Vert(CT) 0.00 A n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.00 N n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014		Wind(LL) -0.00 A n/r 90	Weight: 166 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt M-N, K-P, J-Q, L-O
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 20-11-0.
 (lb) - Max Horz B=319(LC 14)
 Max Uplift All uplift 100 lb or less at joint(s) N, Q, R, S, T, U, V, X, O
 Max Grav All reactions 250 lb or less at joint(s) N, B, P, Q, R, S, T, U, V, O except X=291(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-326/247

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pg=15.0 psf (ground snow); Pf=10.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10
 - 5) Unbalanced snow loads have been considered for this design.
 - 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
 - 7) Gable requires continuous bottom chord bearing.
 - 8) Gable studs spaced at 2-0-0 oc.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) N, Q, R, S, T, U, V, X, O.
 - 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) B.



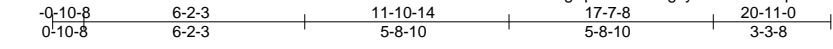
December 4, 2019

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Job	Truss	Truss Type	Qty	Ply	KEN DAWSON PLAN 1341	T18803239
19-114808T	A06	Common	5	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557, 8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Dec 3 17:26:44 2019 Page 1

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5x8 =

Scale: 3/16"=1'

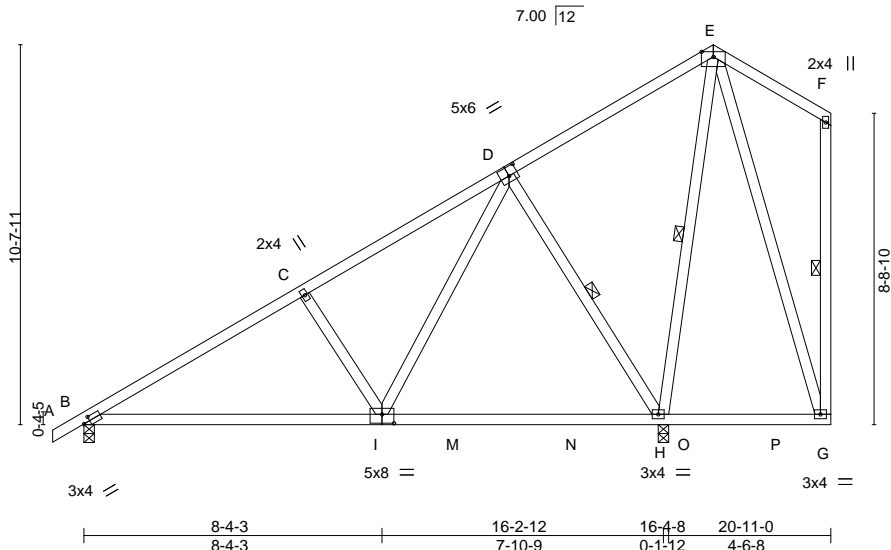


Plate Offsets (X,Y)-- [B:0-2-4,0-1-8], [D:0-3-0,0-3-0], [I:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.33	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 10.4/15.0	Plate Grip DOL 1.00	BC 0.45	Vert(LL) -0.11 H-I >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.24	Vert(CT) -0.20 I-L >976 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.01 H n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 141 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt D-H, E-H, F-G

REACTIONS. (lb/size) B=490/0-3-8, H=808/0-3-8
 Max Horz B=218(LC 14)
 Max Uplift H=-14(LC 14)
 Max Grav B=674(LC 32), H=1178(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-834/0, C-D=-671/3
 BOT CHORD B-I=-165/692, H-I=-75/270
 WEBS C-I=-328/146, D-I=-31/584, D-H=-635/176, E-H=-429/98

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pg=15.0 psf (ground snow); Pf=10.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) H.



December 4, 2019

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

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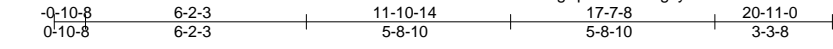


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	KEN DAWSON PLAN 1341	T18803240
19-114808T	A07	Common	5	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557, 8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Dec 3 17:26:45 2019 Page 1

ID:9ohifRTVSugSpHSw?zcUgvyCcmY-oC151sSGoQUozi40g6nA4?vLj1BRxwqQNdabyCcD8



5x6 =

Scale: 3/16"=1'

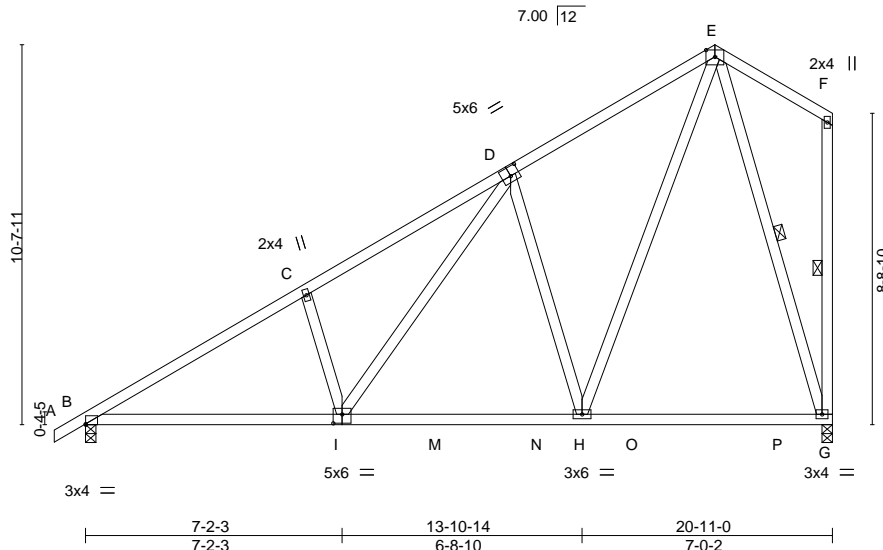


Plate Offsets (X,Y)-- [B:Edge,0-0-4], [D:0-3-0,0-3-0], [I:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc) l/defl L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.10 G-H >999 240	MT20	244/190
Snow (Pf/Pg)	10.4/15.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.17 G-H >999 180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.02 G n/a n/a		
BCLL	0.0 *	Code IRC2015/TPI2014		Matrix-MS				Weight: 140 lb	FT = 20%
BCDL	10.0								

LUMBER-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-1-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt F-G, E-G

REACTIONS. (lb/size) B=668/0-3-8, G=631/0-3-8
Max Horz B=218(LC 14)
Max Uplift G=-11(LC 14)
Max Grav B=888(LC 28), G=943(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1285/36, C-D=-1237/108, D-E=-695/113
BOT CHORD B-I=-221/1146, H-I=-131/721
WEBS C-I=-329/151, D-I=-86/600, D-H=-595/200, E-H=-107/905, E-G=-813/131

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pg=15.0 psf (ground snow); Pf=10.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) G.



December 4, 2019

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818 Soundside Road
Edenton, NC 27932

Job 19-114808T	Truss A08	Truss Type Common	Qty 3	Ply 1	KEN DAWSON PLAN 1341	T18803241
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Dec 3 17:26:46 2019 Page 1

ID:9ohifRTVSugSpHSw?zcUgvyCcmY-GObTFCTuZkcfbsfDDpIPcDRUIRU0gNnacRM8k_yCcD7



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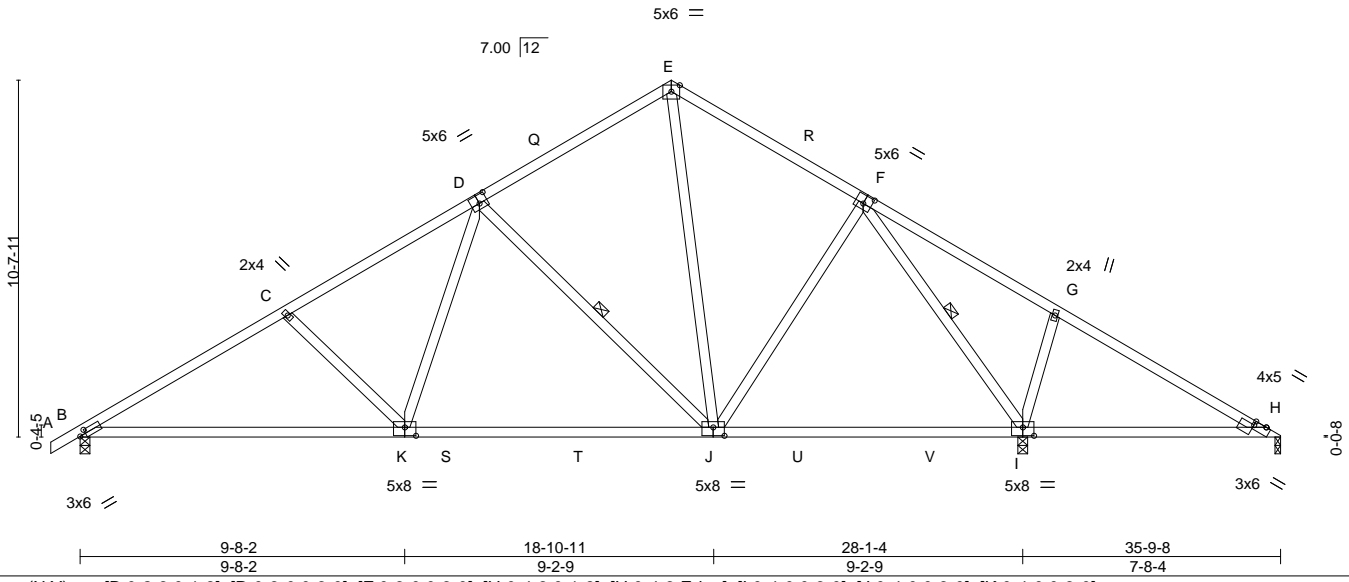


Plate Offsets (X,Y)-- [B:0-2-3,0-1-8], [D:0-3-0,0-3-0], [F:0-3-0,0-3-0], [H:0-4-3,0-1-8], [H:0-4-3,Edge], [I:0-4-0,0-3-0], [J:0-4-0,0-3-0], [K:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.42	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 10.4/15.0	Plate Grip DOL 1.00	BC 0.64	Vert(LL) -0.19 I-J >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.61	Vert(CT) -0.36 K-N >940 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.04 H n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 192 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
WEBS 1 Row at midpt D-J, F-I

REACTIONS. (lb/size) B=830/0-3-8, I=1368/0-3-8, H=8/0-2-0
Max Horz B=181(LC 13)
Max Uplift H=-47(LC 32)
Max Grav B=1105(LC 28), I=1807(LC 29), H=63(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1685/180, C-D=-1471/177, D-E=-744/177, E-F=-817/186, F-G=-26/623, G-H=-100/540
BOT CHORD B-K=-75/1539, J-K=0/1135, I-J=0/445, H-I=-406/135
WEBS C-K=-345/146, D-K=0/548, D-J=-707/158, E-J=-66/430, F-J=0/435, F-I=-1517/163, G-I=-348/157

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pg=15.0 psf (ground snow); Pf=10.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) H.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) H.



December 4, 2019

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ENGINEERING BY
TRENCO
A MiTek Affiliate

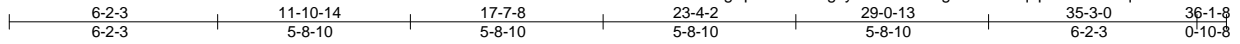
818 Soundside Road
Edenton, NC 27932

Job 19-114808T	Truss A09	Truss Type Common	Qty 5	Ply 1	KEN DAWSON PLAN 1341	T18803242
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BMC (Middlesex, NC), Middlesex, NC - 27557,

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Dec 3 17:26:48 2019 Page 1

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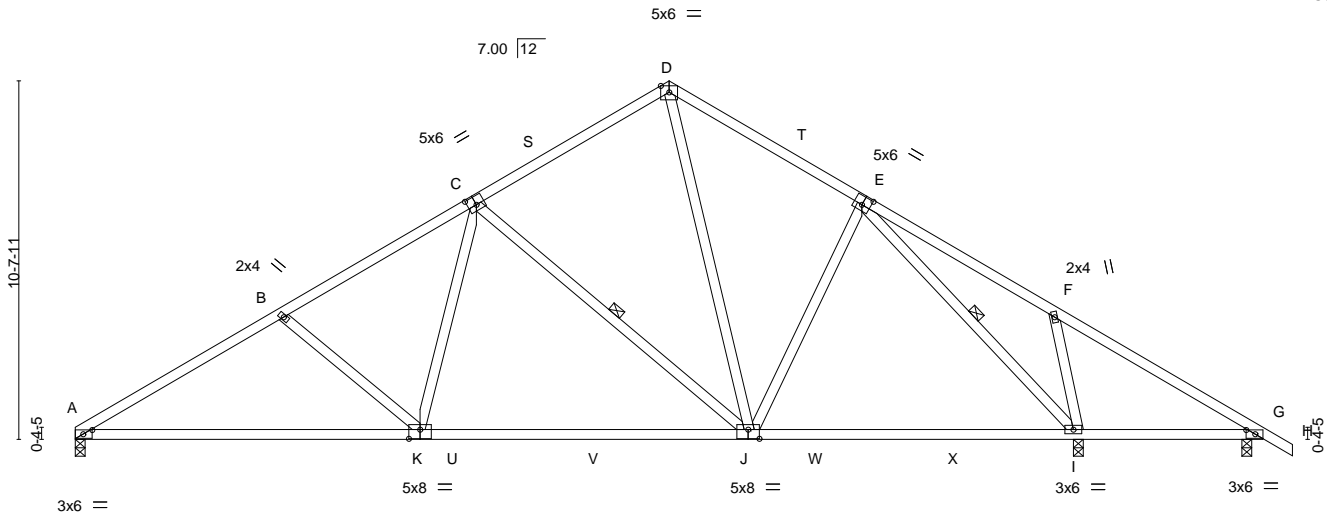


Plate Offsets (X,Y)--	[A:0-3-3,0-1-8], [C:0-3-0,0-3-0], [E:0-3-0,0-3-0], [G:0-3-3,0-1-8], [J:0-4-0,0-3-4], [K:0-4-0,0-3-4]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.40	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 10.4/15.0	Plate Grip DOL 1.00	BC 0.72	Vert(LL) -0.22 I-J >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.61	Vert(CT) -0.44 K-N >805 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.05 I n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 194 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 3-11-14 oc purlins.
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
WEBS 2x4 SP No.3	WEBS 1 Row at midpt C-J, E-I

REACTIONS.
(lb/size) A=894/0-3-8, I=1135/0-3-8, G=150/0-3-8
Max Horz A=-224(LC 12)
Max Uplift A=-73(LC 14), I=-29(LC 15), G=-64(LC 15)
Max Grav A=1179(LC 28), I=1546(LC 29), G=256(LC 33)

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1916/227, B-C=-1670/213, C-D=-939/211, D-E=-1089/239
BOT CHORD A-K=-195/1775, J-K=-73/1376, I-J=0/853
WEBS B-K=-363/163, C-K=0/553, C-J=-765/177, D-J=-113/683, E-I=-1328/14, F-I=-429/219

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pg=15.0 psf (ground snow); Pf=10.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, I, G.



December 4, 2019

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ENGINEERING BY

 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	KEN DAWSON PLAN 1341	T18803243
19-114808T	A10	Common	2	1		

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Dec 3 17:26:49 2019 Page 1

ID:9ohifRTVSugSpHSw?zcUgvyCcmY-hzGbtEWnsf_ESJOovyr6Er30heWmtmf0IPboKJyCcD4

0-10-8	6-2-3	11-10-14	17-7-8	23-4-2	29-0-13	35-3-0	36-1-8
0-10-8	6-2-3	5-8-10	5-8-10	5-8-10	5-8-10	6-2-3	0-10-8

Scale = 1:68.9

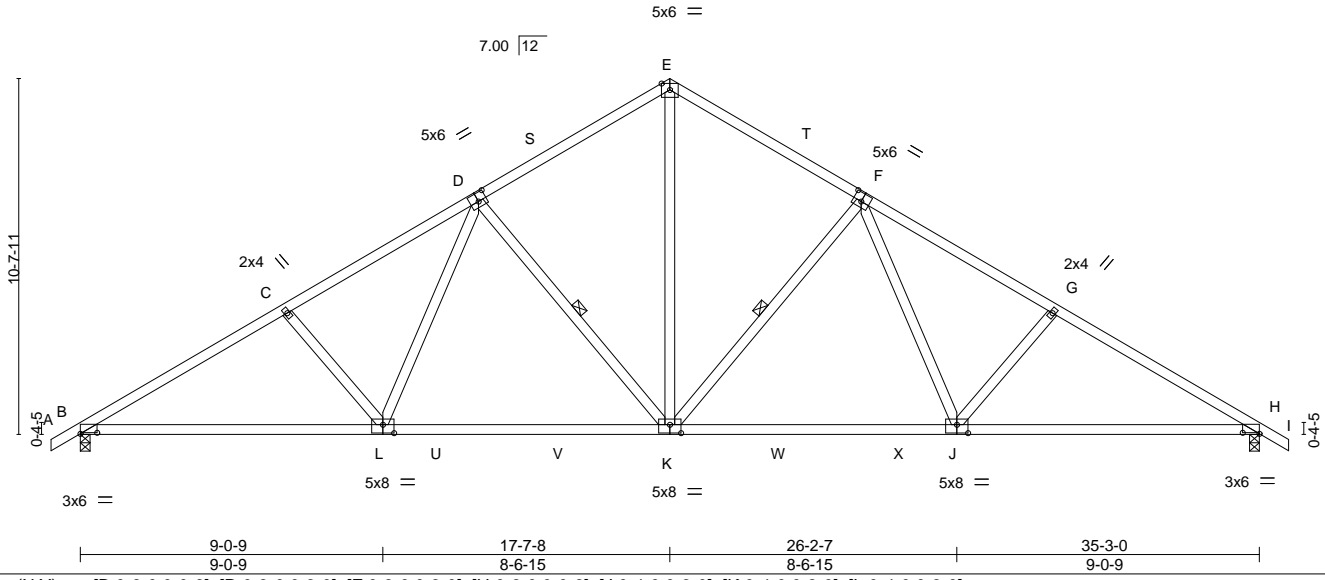


Plate Offsets (X,Y)-- [B:0-6-0,0-0-6], [D:0-3-0,0-3-0], [F:0-3-0,0-3-0], [H:0-6-0,0-0-6], [J:0-4-0,0-3-0], [K:0-4-0,0-3-0], [L:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.37	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 10.4/15.0	Plate Grip DOL 1.00	BC 0.63	Vert(LL) -0.20 J-K >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.48	Vert(CT) -0.35 J-K >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.09 H n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 192 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 3-7-11 oc purlins.
BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt F-K, D-K

REACTIONS. (lb/size) B=1107/0-3-8, H=1107/0-3-8
 Max Horz B=-227(LC 12)
 Max Uplift B=-88(LC 14), H=-88(LC 15)
 Max Grav B=1462(LC 2), H=1463(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-2370/252, C-D=-2190/264, D-E=-1519/265, E-F=-1519/265, F-G=-2190/264, G-H=-2371/252
 BOT CHORD B-L=-187/2162, K-L=-78/1743, J-K=-24/1627, H-J=-119/2000
 WEBS E-K=-151/1164, F-K=-673/189, F-J=-22/556, G-J=-333/159, D-K=-673/189, D-L=-22/556, C-L=-333/159

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pg=15.0 psf (ground snow); Pf=10.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, H.



December 4, 2019

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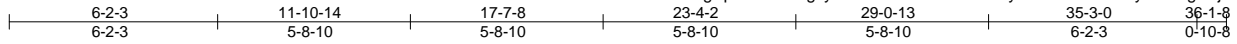
TRENCO
 ENGINEERING BY
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	KEN DAWSON PLAN 1341	T18803244
19-114808T	A11	Common	4	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Dec 3 17:26:51 2019 Page 1

ID:9ohifRTVSugSpHSw?zcUgvyCcmY-dMOMlwX1OGEyhdXA0MtaJG9LySBCLg8Jlj4vPCyCcD2



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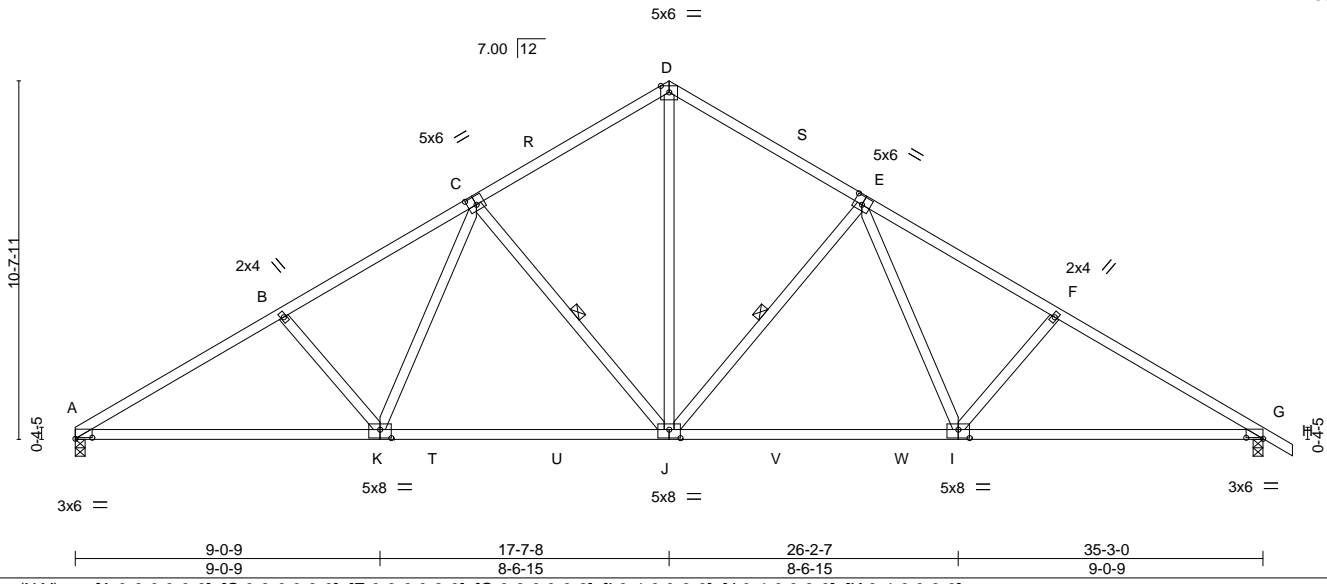


Plate Offsets (X,Y)-- [A:0-6-0,0-0-6], [C:0-3-0,0-3-0], [E:0-3-0,0-3-0], [G:0-6-0,0-0-6], [I:0-4-0,0-3-0], [J:0-4-0,0-3-0], [K:0-4-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.00		TC 0.39	Vert(LL) -0.20	I-J	>999	240	MT20	244/190
Snow (Pf/Pg) 10.4/15.0	Lumber DOL 1.15		BC 0.63	Vert(CT) -0.35	I-J	>999	180		
TCDL 10.0	Rep Stress Incr YES		WB 0.48	Horz(CT) 0.09	G	n/a	n/a		
BCLL 0.0 *	Code IRC2015/TPI2014		Matrix-MS						
BCDL 10.0								Weight: 191 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 BOT CHORD 2x4 SP 1650F 1.5E or 2x4 SP No.1 or 2x4 SP SS
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-7-5 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt E-J, C-J

REACTIONS. (lb/size) A=1071/0-3-8, G=1108/0-3-8
 Max Horz A=-224(LC 12)
 Max Uplift A=-73(LC 14), G=-88(LC 15)
 Max Grav A=1409(LC 2), G=1463(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-B=-2375/256, B-C=-2194/268, C-D=-1520/266, D-E=-1520/266, E-F=-2191/265,
 F-G=-2371/253
 BOT CHORD A-K=-190/2167, J-K=-79/1745, I-J=-25/1629, G-I=-120/2001
 WEBS D-J=-151/1165, E-J=-673/189, E-I=-22/556, F-I=-333/159, C-J=-675/190, C-K=-24/560,
 B-K=-336/160

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pg=15.0 psf (ground snow); Pf=10.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, G.



December 4, 2019

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 19-114808T	Truss A12	Truss Type Common Supported Gable	Qty 1	Ply 1	KEN DAWSON PLAN 1341	T18803245
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BMC (Middlesex, NC),

Middlesex, NC - 27557,

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Dec 3 17:26:52 2019 Page 1

ID:9ohifRTVSugSpHSw?zUgvyCcmY-5YykVFYf9aMpJn6Na4PpsUhaRsfh4CSS_NpSxeyCcD1



Scale = 1:77.3

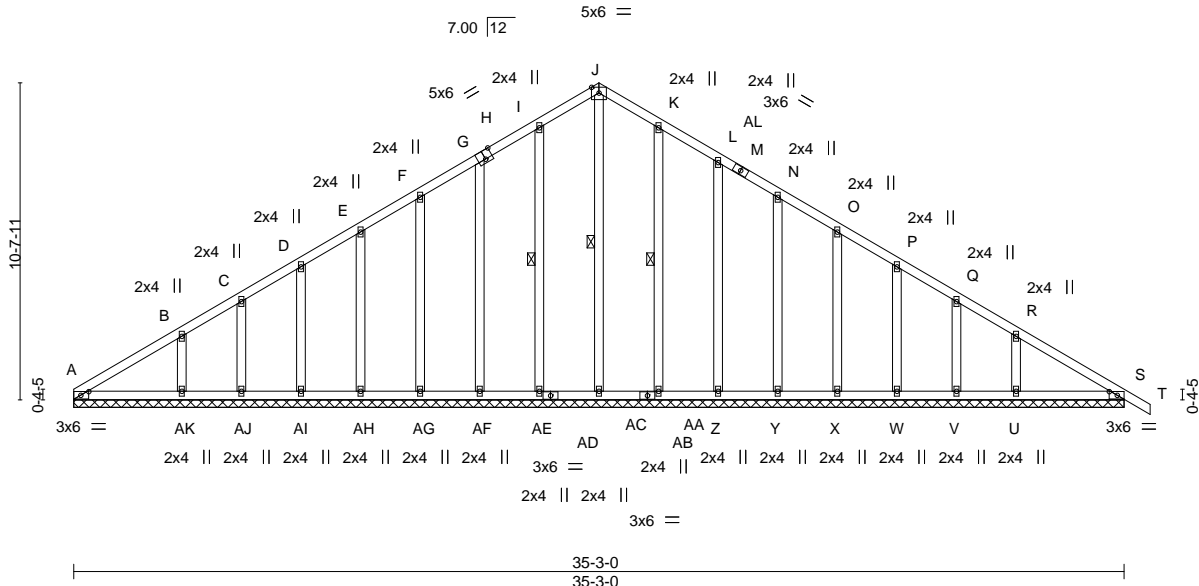


Plate Offsets (X,Y)-- [A:0-3-3,0-1-8], [G:0-2-0,0-0-0], [H:0-0-0,0-1-12], [H:0-3-0,Edge], [S:0-3-3,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.00	TC 0.15	Vert(LL)	0.00	T	n/r	MT20	244/190
Snow (Pf/Pg) 10.4/15.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	0.01	T	n/r		
TCDL 10.0	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.01	S	n/a		
BCLL 0.0 *	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.00	S	n/r		
BCDL 10.0								Weight: 243 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt J-AC, I-AE, K-AA

REACTIONS. All bearings 35-3-0.
 (lb) - Max Horz A=224(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) A, AE, AF, AG, AH, AI, AJ, AK, AA, Z, Y, X, W, V, U
 Max Grav All reactions 250 lb or less at joint(s) A, AC, AE, AF, AG, AH, AI, AJ, AA, Z, Y, X, W, V, S except AK=304(LC 28), U=290(LC 29)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pg=15.0 psf (ground snow); Pf=10.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 10.4 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, AE, AF, AG, AH, AI, AJ, AK, AA, Z, Y, X, W, V, U.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) A, S.



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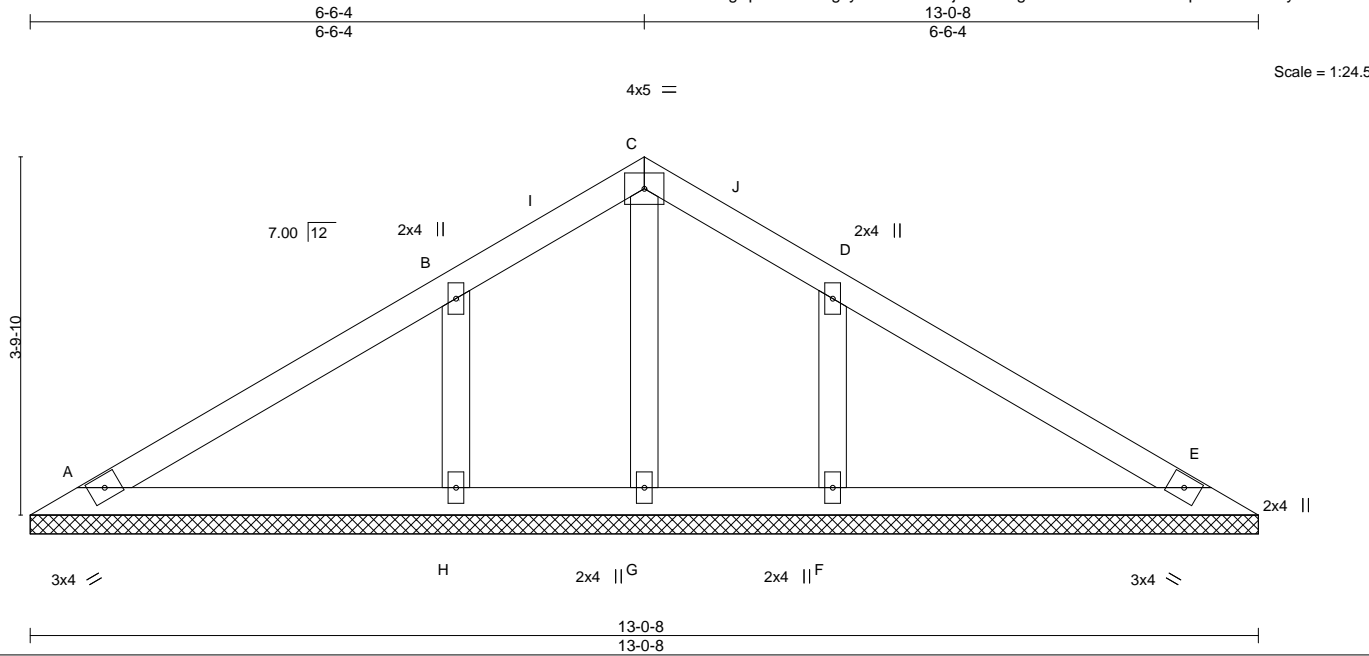


Job	Truss	Truss Type	Qty	Ply	KEN DAWSON PLAN 1341	T18803246
19-114808T	V01	Valley	1	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

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ID:9ohifRTVSugSPHSw?zcUgvyCcmY-ZkW6jbZHwtUgwxhZ8nw2OhEKRF?hphFcD1Z0T4yCcD0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.20	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 10.4/15.0	Plate Grip DOL 1.00	BC 0.12	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.05	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 E n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 51 lb	FT = 20%

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

REACTIONS. All bearings 13-0-8.
 (lb) - Max Horz A=-74(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) A, E, G, H, F
 Max Grav All reactions 250 lb or less at joint(s) A, E, G except H=343(LC 27), F=343(LC 28)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 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.
 - TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pg=15.0 psf (ground snow); Pf=10.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, E, G, H, F.



December 4, 2019

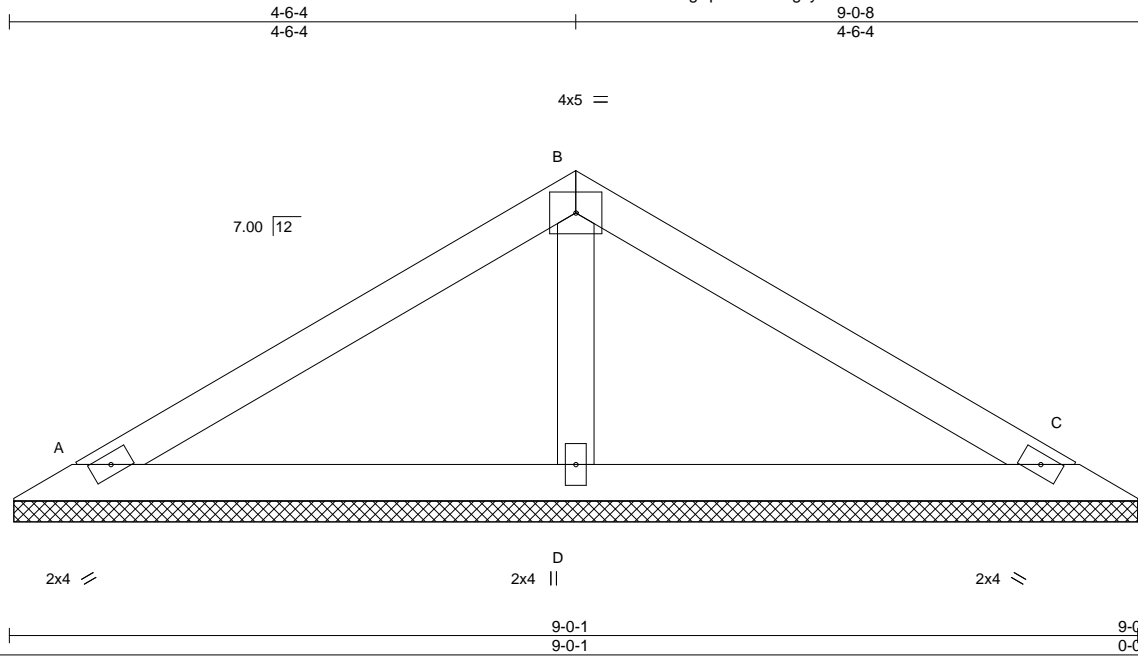
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	KEN DAWSON PLAN 1341	T18803247
19-114808T	V02	Valley	1	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Dec 3 17:26:54 2019 Page 1

ID:9ohifRTVSugSpHSw?zcUgvyCcmY-1x4UwxZwhBdXY4GhVVRHxvnuXfkJY8dlRglZ0XyCcD?



Scale = 1:18.4

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.30	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 10.4/15.0	Plate Grip DOL 1.00	BC 0.16	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 C n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 30 lb	FT = 20%

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

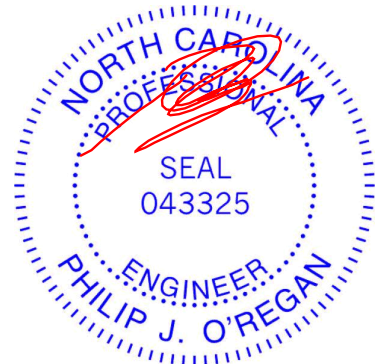
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=123/8-11-10, C=123/8-11-10, D=238/8-11-10
 Max Horz A=-49(LC 10)
 Max Uplift A=-26(LC 14), C=-32(LC 15)
 Max Grav A=166(LC 2), C=166(LC 2), D=304(LC 2)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pg=15.0 psf (ground snow); Pf=10.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C.



December 4, 2019

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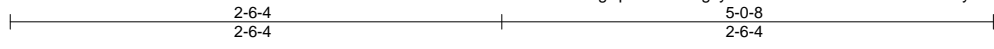
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	KEN DAWSON PLAN 1341	T18803248
19-114808T	V03	Valley	1	1	Job Reference (optional)	

BMC (Middlesex, NC), Middlesex, NC - 27557,

8.240 s Jul 14 2019 MiTek Industries, Inc. Tue Dec 3 17:26:55 2019 Page 1

ID:9ohifRTVSugSPHsw?zcUgvyCcmY-W7ds8HaYRVIOAExFCyWU6J6z3f?GbZvgK26YzyCcD_



3x4 =

Scale = 1:11.8

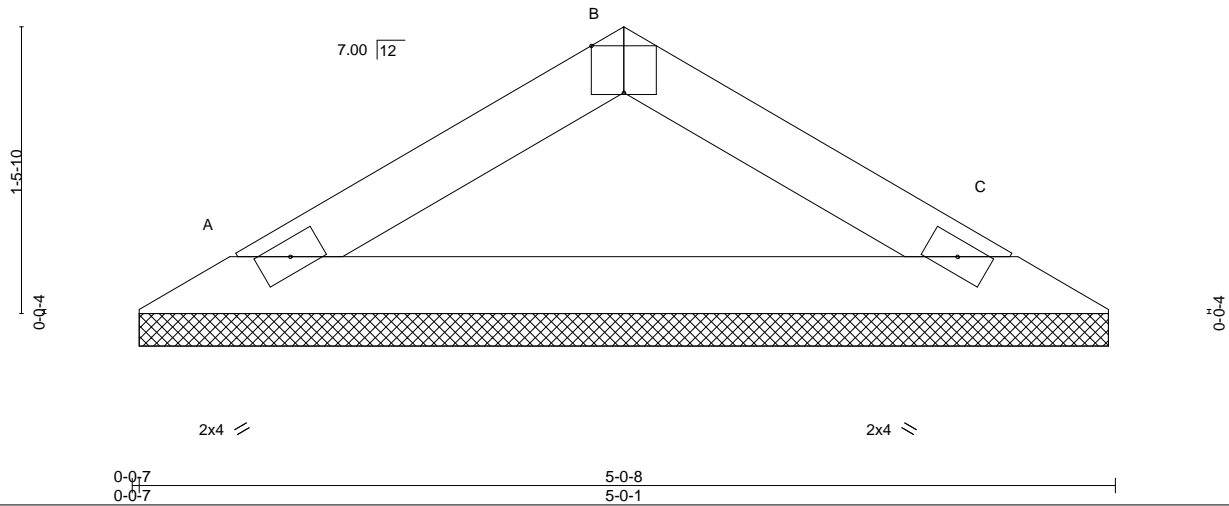


Plate Offsets (X,Y)-- [B:0-2-0,Edge]	0-0-7 0-0-7	5-0-8 5-0-1
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.07	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 10.4/15.0	Plate Grip DOL 1.00	BC 0.19	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 C n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014			Weight: 14 lb	FT = 20%

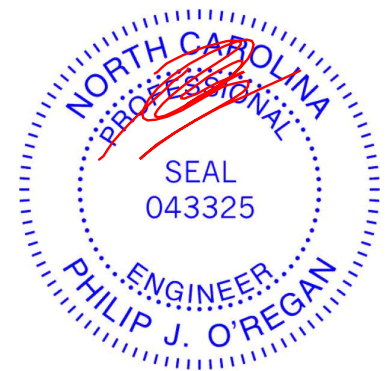
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-8 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=120/4-11-10, C=120/4-11-10
 Max Horz A=24(LC 11)
 Max Uplift A=8(LC 14), C=8(LC 15)
 Max Grav A=158(LC 2), C=158(LC 2)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 3) TCCL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.00); Pg=15.0 psf (ground snow); Pf=10.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.00); Category II; Exp B; Fully Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C.

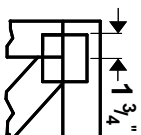


December 4, 2019

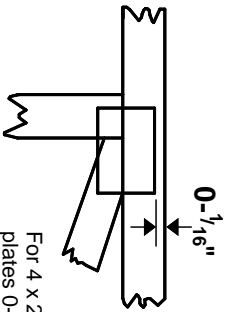
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system.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

PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 X 4

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

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



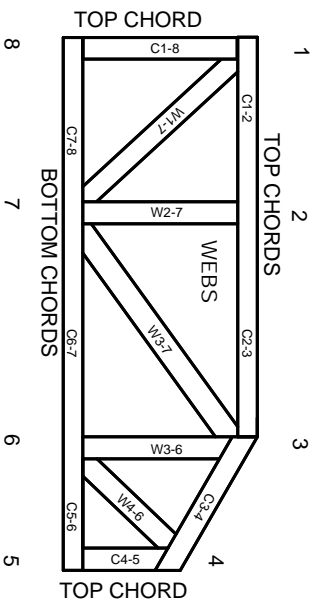
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8
dimensions shown in ft-in-sixteenths
(Drawings not to scale)



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MITek Engineering Reference Sheet: MII-7473 rev. 10/03/2015



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.