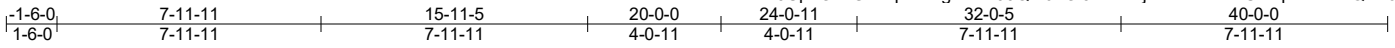


Job 19-043915T	Truss A01	Truss Type Common	Qty 17	Ply 1	OLIVER THUERNAGLE
					Job Reference (optional)

BMC WEST (IDAHO FALLS), IDAHO FALLS, ID 83402

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ID:VeDX9UpaOrHGxKqoEZdgmzzS99Q-v0LOi3mDYXjTicKebDNWUXNpb42HiNQTA6ifSazS7CE



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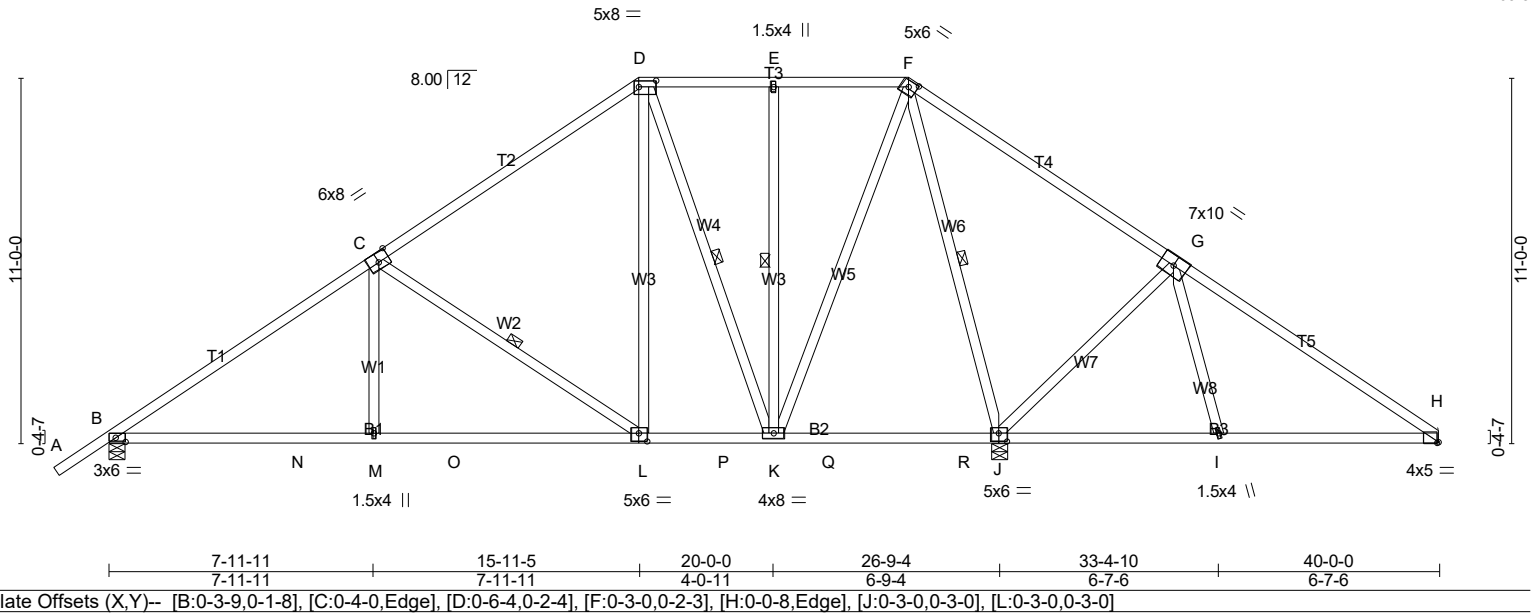


Plate Offsets (X,Y)-- [B:0-3-9,0-1-8], [C:0-4-0,Edge], [D:0-6-4,0-2-4], [F:0-3-0,0-2-3], [H:0-0-8,Edge], [J:0-3-0,0-3-0], [L:0-3-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	Plate Grip DOL	1.15	TC 0.72	Vert(LL)	-0.09	B-M	>999	MT20	220/195
TCDL 7.0	Lumber DOL	1.15	BC 0.37	Vert(CT)	-0.16	B-M	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.67	Horz(CT)	0.03	H	n/a		
BCDL 7.0	Code IRC2015/TPI2014		Matrix-SH	Wind(LL)	0.09	B-M	>999		
								Weight: 229 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
BOT CHORD 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
WEBS 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E *Except*
 W1,W8: 2x4 DF Stud/Std

BRACING-
TOP CHORD Sheathed or 4-6-6 oc purlins, except
 2-0-0 oc purlins (6-0-0 max.): D-F.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt C-L, D-K, E-K, F-J

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) B=1205/0-5-8 (min. 0-1-8), J=2047/0-5-8 (min. 0-2-3), H=376/Mechanical
 Max Horz B=297(LC 5)
 Max Uplift B=-272(LC 8), J=-323(LC 9), H=-109(LC 9)
 Max Grav B=1227(LC 19), J=2047(LC 1), H=447(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1566/289, C-D=-895/226, D-E=-412/199, E-F=-412/199, F-G=-1/533, G-H=-488/109
BOT CHORD B-N=-309/1312, M-N=-309/1312, M-O=-310/1309, L-O=-310/1309, L-P=-187/662,
 K-P=-187/662, I-J=-82/253, H-I=-60/289
WEBS C-M=0/304, C-L=-825/349, D-L=-137/572, D-K=-622/200, E-K=-294/148, F-K=-194/910,
 F-J=-1533/262, G-J=-669/368, G-I=0/251

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=4.2psf; BC DL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BC DL = 7.0psf.
 - 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=272, J=323, H=109.
 - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

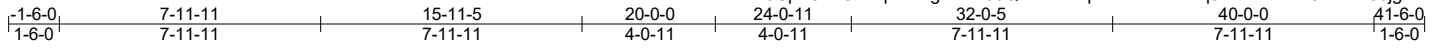
LOAD CASE(S) Standard

Job 19-043915T	Truss A02	Truss Type Common	Qty 8	Ply 1	OLIVER THUERNAGLE
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BMC WEST (IDAHO FALLS), IDAHO FALLS, ID 83402

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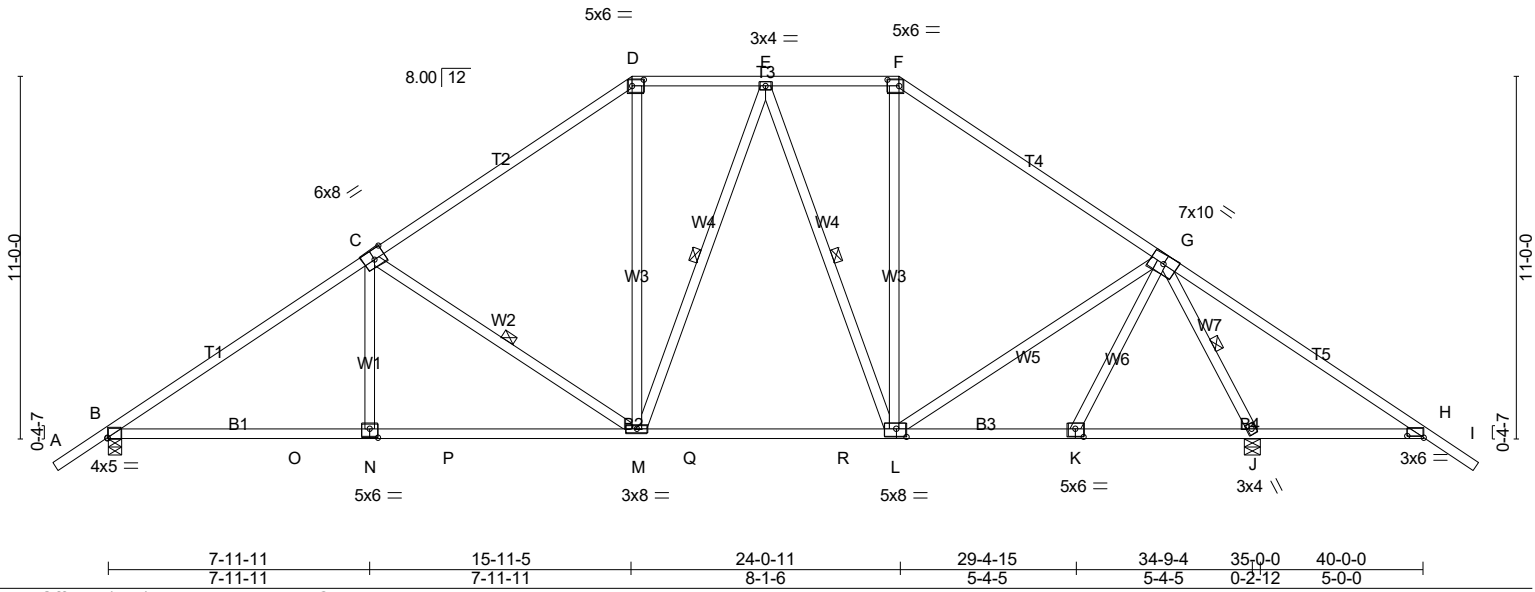


Plate Offsets (X,Y)--	[B:0-0,0,0-4], [C:0-4,0,Edge], [D:0-4-4,0-2-4], [F:0-4-4,0-2-4], [H:0-6-0,0-0-10], [K:0-3-0,0-3-0], [L:0-3-12,0-3-0], [N:0-3-0,0-3-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	Plate Grip DOL	1.15	TC 0.76	Vert(LL)	-0.19	L-M	>999	360	MT20	220/195
TCDL 7.0	Lumber DOL	1.15	BC 0.43	Vert(CT)	-0.26	L-M	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.55	Horz(CT)	0.06	J	n/a	n/a		
BCDL 7.0	Code IRC2015/TPI2014		Matrix-SH	Wind(LL)	0.09	B-N	>999	240		
									Weight: 229 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E	TOP CHORD Sheathed or 3-7-5 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): D-F.
BOT CHORD 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: H-J.
WEBS 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E *Except* BOT CHORD	WEBS 1 Row at midpt C-M, E-M, E-L, G-J
W1,W6,W7: 2x4 DF Stud/Std	

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) B=1607/0-5-8 (min. 0-1-11), J=2144/0-5-8 (min. 0-2-5)
 Max Horz B=-305(LC 6)
 Max Uplift B=-340(LC 8), J=-424(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-2230/409, C-D=-1571/345, D-E=-1158/367, E-F=-960/300, F-G=-1341/291, G-H=-209/827
 BOT CHORD B-O=-390/1835, N-O=-390/1835, N-P=-391/1832, M-P=-391/1832, M-Q=-176/1104, Q-R=-176/1104, L-R=-176/1104, K-L=0/504, J-K=-23/481, H-J=-538/291
 WEBS C-N=0/290, C-M=-795/349, D-M=-50/396, E-M=-113/313, E-L=-521/207, F-L=-53/371, G-L=-161/549, G-J=-2243/487

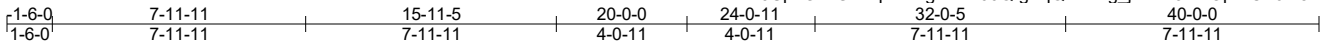
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=4.2psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=340, J=424.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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

Job 19-043915T	Truss A03	Truss Type Common Structural Gable	Qty 1	Ply 1	OLIVER THUERNAGLE Job Reference (optional)
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BMC WEST (IDAHO FALLS), IDAHO FALLS, ID 83402

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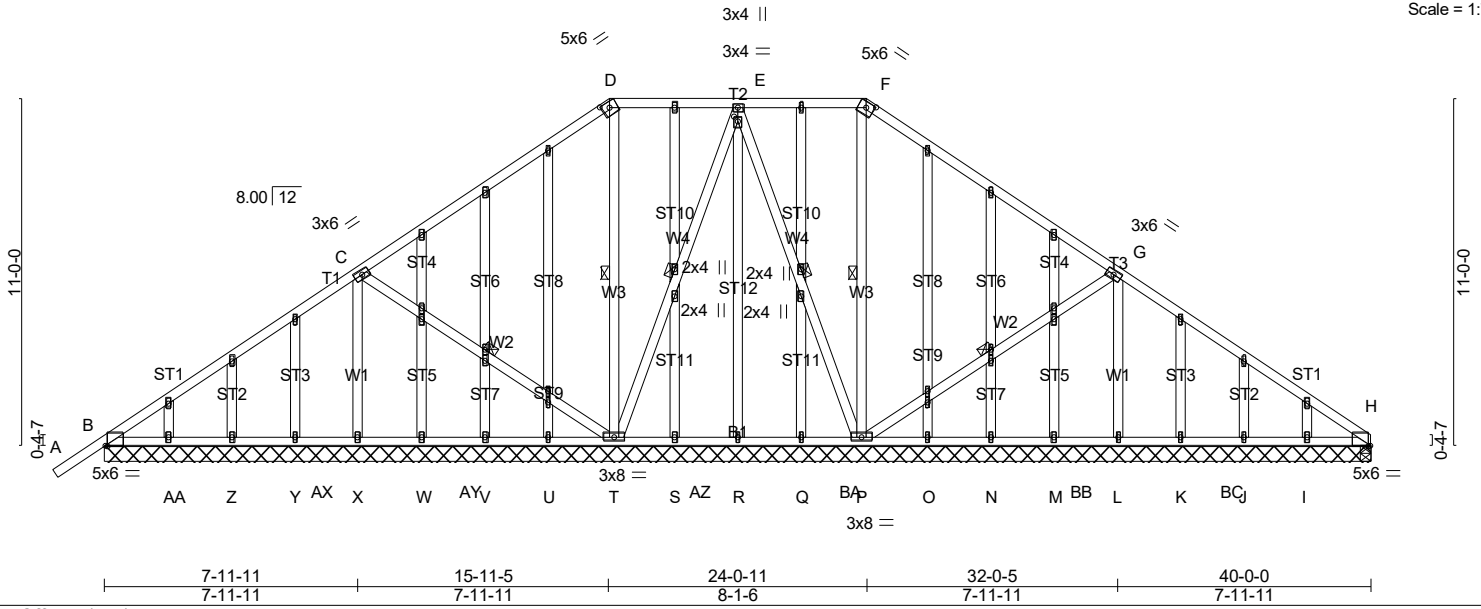


Plate Offsets (X,Y)-- [B:0-0-13,Edge], [D:0-3-0,0-2-3], [E:0-1-12,0-1-8], [F:0-3-0,0-2-3], [H:0-0-13,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	Plate Grip DOL	1.15	TC 0.66	Vert(LL)	-0.01	H-I	>999	360	MT20	220/195
TCDL 7.0	Lumber DOL	1.15	BC 0.44	Vert(CT)	-0.01	H-I	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.28	Horz(CT)	0.01	H	n/a	n/a		
BCDL 7.0	Code IRC2015/TPI2014		Matrix-SH	Wind(LL)	0.01	H-I	>999	240		
									Weight: 342 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
 BOT CHORD 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
 WEBS 2x4 DF Stud/Std
 OTHERS 2x4 DF Stud/Std *Except*
 ST12,ST8: 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E

BRACING-
 TOP CHORD Sheathed or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): D-F.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt C-T, D-T, E-T, E-P, F-P, G-P

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 40-0-0.
 (lb) - Max Horz B=297(LC 5)
 Max Uplift All uplift 100 lb or less at joint(s) B, Z, J except X=-239(LC 8), T=-210(LC 5), P=-192(LC 9), L=-205(LC 9), AA=-112(LC 8), I=-146(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) H, H, R, S, U, V, W, Y, Z, AA, Q, O, N, M, K, J except B=332(LC 19), X=615(LC 15), T=655(LC 19), P=655(LC 20), L=578(LC 16), I=274(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-317/158, G-H=-275/67
 WEBS C-X=-530/258, D-T=-421/137, F-P=-420/102, G-L=-532/225

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=4.2psf; BC DL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.33 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) Provide adequate drainage to prevent water ponding.
 - 5) All plates are 1.5x4 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, with BCDL = 7.0psf.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, Z, J except (jt=lb) X=239, T=210, P=192, L=205, AA=112, I=146.
 - 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

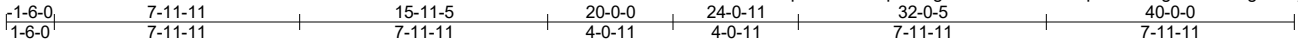
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	OLIVER THUERNAGLE
19-043915T	A04	Common Structural Gable	1	1	Job Reference (optional)

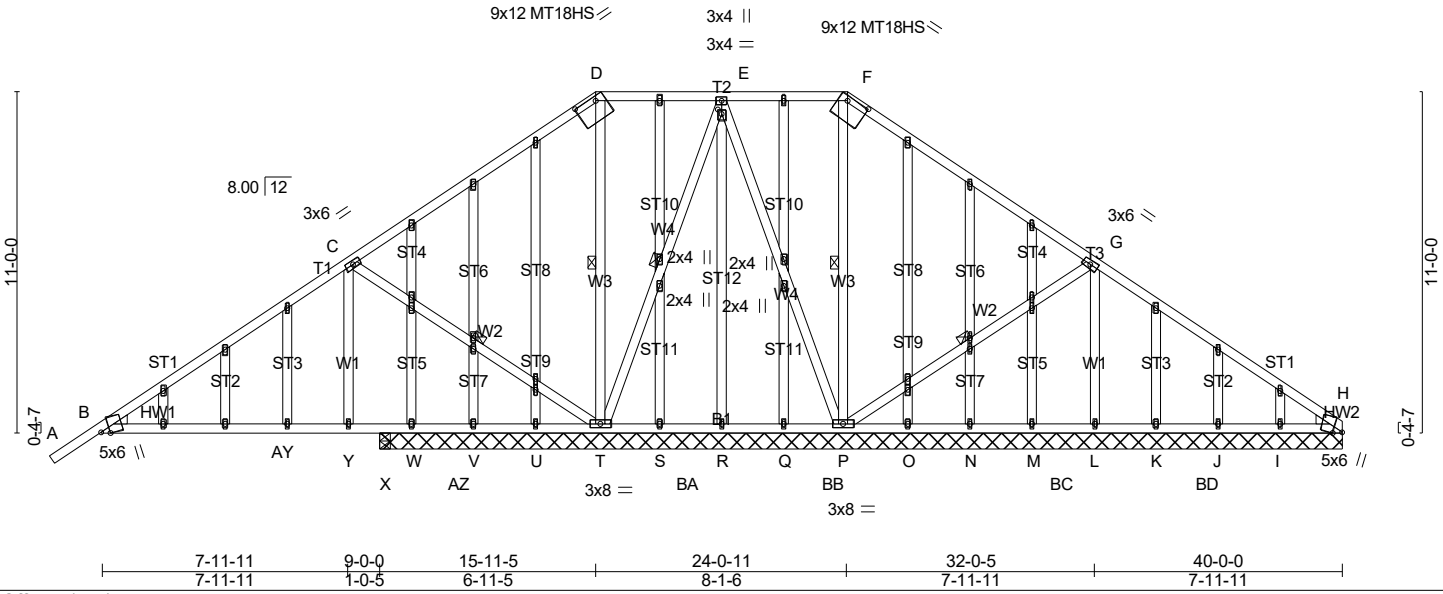
BMC WEST (IDAHO FALLS), IDAHO FALLS, ID 83402

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Scale = 1:74.3



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	Plate Grip DOL 1.15	TC 0.82	Vert(LL) -0.01	H-I	>999	360	MT20	220/195
TCDL 7.0	Lumber DOL 1.15	BC 0.51	Vert(CT) -0.01	H-I	>999	240	MT18HS	220/195
BCLL 0.0 *	Rep Stress Incr YES	WB 0.59	Horz(CT) -0.02	H	n/a	n/a		
BCDL 7.0	Code IRC2015/TPI2014	Matrix-SH	Wind(LL) 0.01	H-I	>999	240		
							Weight: 343 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
 BOT CHORD 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
 WEBS 2x4 DF Stud/Std
 OTHERS 2x4 DF Stud/Std *Except*
 ST12,ST8: 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E

BRACING-
 TOP CHORD Sheathed or 6-0-0 oc purlins, except
 2-0-0 oc purlins (10-0-0 max.): D-F.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt C-T, D-T, E-T, F-P, G-P

WEDGE
 Left: 2x4 DF Stud/Std, Right: 2x4 DF Stud/Std

REACTIONS. All bearings 31-0-0 except (jt=length) X=0-3-8.
 (lb) - Max Horz W=297(LC 5)
 Max Uplift All uplift 100 lb or less at joint(s) J except H=-133(LC 19), T=-544(LC 8),
 P=-189(LC 9), L=-255(LC 19), W=-536(LC 19), I=-146(LC 9), X=-238(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) H, R, S, U, V, W, Q, O, N, M, K, J
 except T=2068(LC 19), P=649(LC 20), L=434(LC 20), I=273(LC 16), X=814(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-218/921, C-D=-219/1303, D-E=-75/982, E-F=0/556, F-G=-72/797, G-H=-176/371
 BOT CHORD B-AY=-609/301, Y-AY=-609/301, X-Y=-609/301, W-X=-609/301, W-AZ=-623/289,
 V-AZ=-623/289, U-V=-623/289, T-U=-623/289, T-BA=-724/344, S-BA=-724/344, R-S=-724/344,
 Q-R=-724/344, Q-BB=-724/344, P-BB=-724/344
 WEBS C-T=-471/290, D-T=-1059/275, E-T=-797/159, E-P=-111/486, F-P=-784/148, G-P=-461/245,
 G-L=-411/282

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=4.2psf; BC DL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.33 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) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) J except (jt=lb) H=133, T=544, P=189, L=255, W=536, I=146, X=238.
 - 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 12) 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

Job	Truss	Truss Type	Qty	Ply	OLIVER THUERNAGLE
19-043915T	A04	Common Structural Gable	1	1	Job Reference (optional)

BMC WEST (IDAHO FALLS), IDAHO FALLS, ID 83402

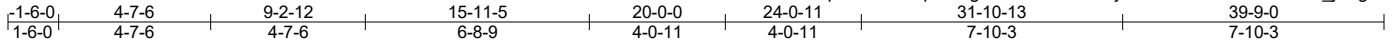
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LOAD CASE(S) Standard

Job 19-043915T	Truss A05	Truss Type Common	Qty 6	Ply 1	OLIVER THUERNAGLE
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BMC WEST (IDAHO FALLS), IDAHO FALLS, ID 83402

8.220 s Feb 10 2019 MiTek Industries, Inc. Wed Apr 10 11:18:54 2019 Page 1
 ID:VeDX9UpaOrHGXXkqoEZdgmzzS99Q-zvl3rCyd08cK2vzWzt81biVOS78_jB0gdxrxUDzS7C?



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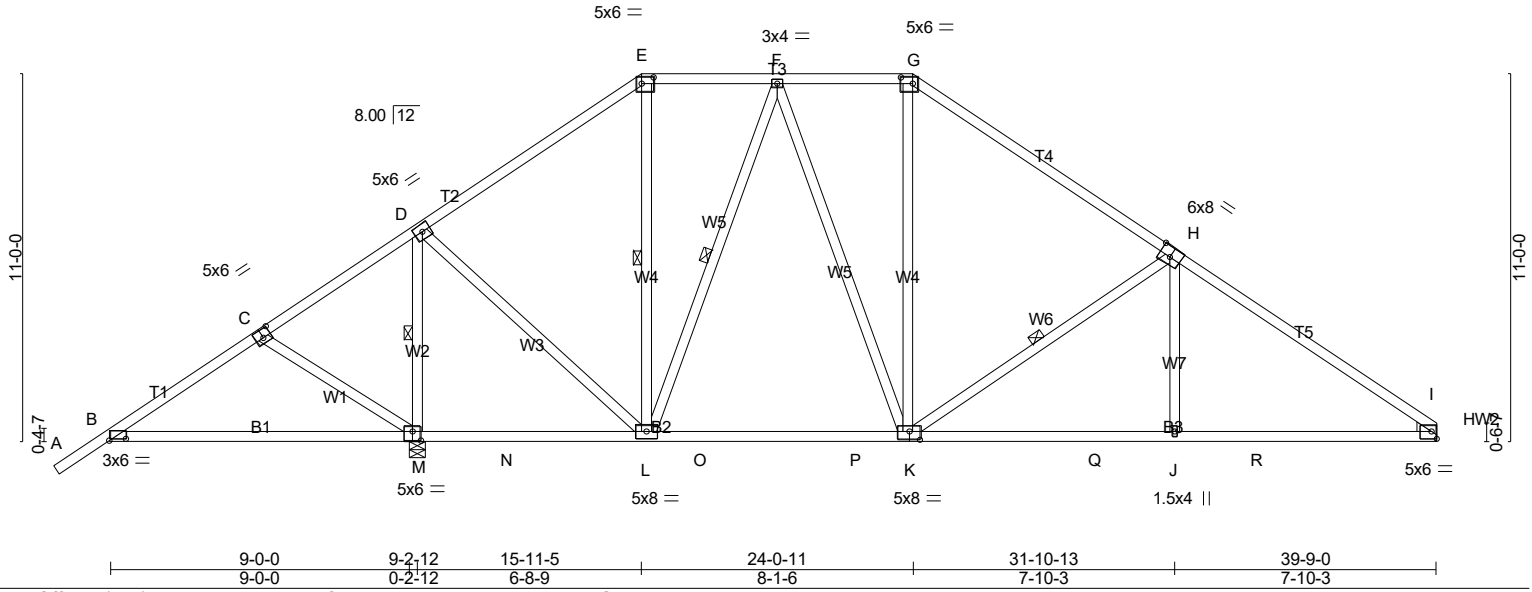


Plate Offsets (X,Y)-- [B:0-6-0,0-0-10], [C:0-3-0,0-3-0], [E:0-4-4,0-2-4], [G:0-4-4,0-2-4], [H:0-4-0,Edge], [I:0-5-6,0-1-4], [I:0-0-15,0-0-10], [I:Edge,0-2-10], [K:0-3-12,0-3-0], [M:0-3-0,0-3-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	Plate Grip DOL	1.15	TC 0.68	Vert(LL) -0.16	K-L	>999	360	MT20	220/195
TCDL 7.0	Lumber DOL	1.15	BC 0.49	Vert(CT) -0.23	K-L	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.55	Horz(CT) 0.04	I	n/a	n/a		
BCDL 7.0	Code IRC2015/TPI2014		Matrix-SH	Wind(LL) 0.11	I-J	>999	240		
								Weight: 225 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E	TOP CHORD Sheathed or 4-0-0 oc purlins, except
BOT CHORD 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E	2-0-0 oc purlins (6-0-0 max.); E-G.
WEBS 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E *Except* BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
W1,W2,W7: 2x4 DF Stud/Std	1 Row at midpt D-M, E-L, F-L, H-K
WEDGE Right: 2x4 DF Stud/Std	

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) M=2431/0-5-8 (min. 0-2-9), I=1179/Mechanical
 Max Horz M=297(LC 5)
 Max Uplift M=481(LC 8), I=255(LC 9)
 Max Grav M=2431(LC 1), I=1249(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-157/683, C-D=-206/993, D-E=-605/208, E-F=-483/209, F-G=-838/319, G-H=-1190/291, H-I=-1854/356
 BOT CHORD B-M=-479/224, M-N=-732/321, L-N=-732/321, L-O=-126/709, O-P=-126/709, K-P=-126/709, K-Q=-175/1400, J-Q=-175/1400, J-R=-175/1402, I-R=-175/1402
 WEBS C-M=-303/178, D-M=-2137/450, D-L=-136/1427, E-L=-266/163, F-L=-737/214, F-K=-147/544, H-K=-811/357, H-J=0/290

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=4.2psf; BC DL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
 - 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) M=481, I=255.
 - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

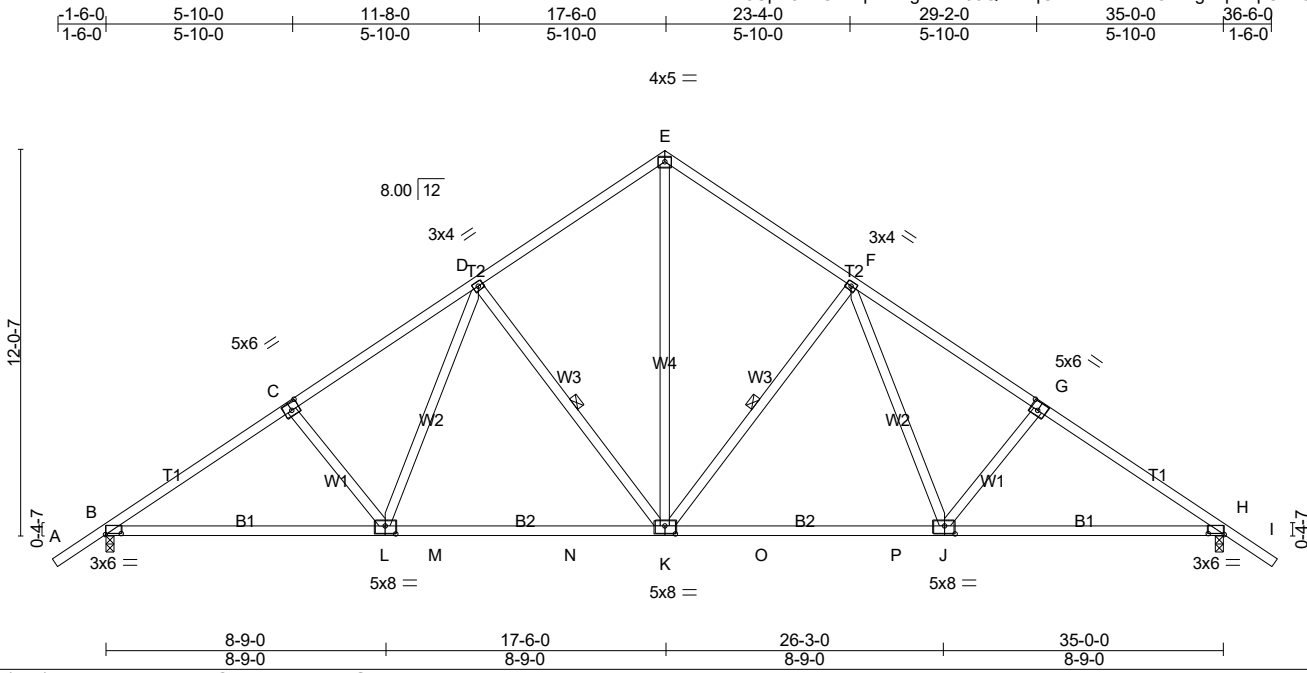
LOAD CASE(S) Standard

Job 19-043915T	Truss B01	Truss Type Common	Qty 4	Ply 1	OLIVER THUERNAGLE
					Job Reference (optional)

BMC WEST (IDAHO FALLS), IDAHO FALLS, ID 83402

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ID:VeDX9UpaOrHGxKqoEZdgmzzS99Q-vHtqGtzuYIs2HD7v5IAVg7apDxpCB40z5FK2X5zS7Bz



Scale = 1:72.1

Plate Offsets (X,Y)-- [B:0-6-0,0-0-6], [C:0-3-0,0-3-0], [G: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.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.34	Vert(LL) -0.22	J-K	>999	360	MT20	220/195
TCDL 7.0	Plate Grip DOL 1.15	BC 0.50	Vert(CT) -0.31	J-K	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.58	Horz(CT) 0.08	H	n/a	n/a		
BCDL 7.0	Rep Stress Incr YES	Matrix-SH	Wind(LL) 0.07	K	>999	240		
	Code IRC2015/TPI2014						Weight: 185 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
 BOT CHORD 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
 WEBS 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E *Except*WEBS
 W1: 2x4 DF Stud/Std

BRACING-
 TOP CHORD Sheathed or 4-0-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 9-7-10 oc bracing.
 1 Row at midpt F-K, D-K

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) B=1655/0-3-8 (min. 0-1-12), H=1655/0-3-8 (min. 0-1-12)
 Max Horz B=-332(LC 6)
 Max Uplift B=-352(LC 8), H=-352(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-2369/460, C-D=-2113/474, D-E=-1499/417, E-F=-1499/417, F-G=-2113/474, G-H=-2369/461
 BOT CHORD B-L=-479/2014, L-M=-293/1638, M-N=-293/1638, K-N=-293/1638, K-O=-172/1513, O-P=-172/1513, J-P=-172/1513, H-J=-255/1859
 WEBS E-K=-307/1163, F-K=-686/339, F-J=-122/502, G-J=-333/234, D-K=-686/338, D-L=-122/501, C-L=-333/234

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=4.2psf; BC DL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BC DL = 7.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=352, H=352.
 - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 19-043915T	Truss B02	Truss Type Common Structural Gable	Qty 1	Ply 1	OLIVER THUERNAGLE
					Job Reference (optional)

BMC WEST (IDAHO FALLS), IDAHO FALLS, ID 83402

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ID:VeDX9UpaOrHGxKqoEZdgmzzS99Q-JsYyuv0mrgEd8hsUmQkCllCK?8sLOSmQnDYi8QzS7Bw



4x5 =

Scale = 1:74.2

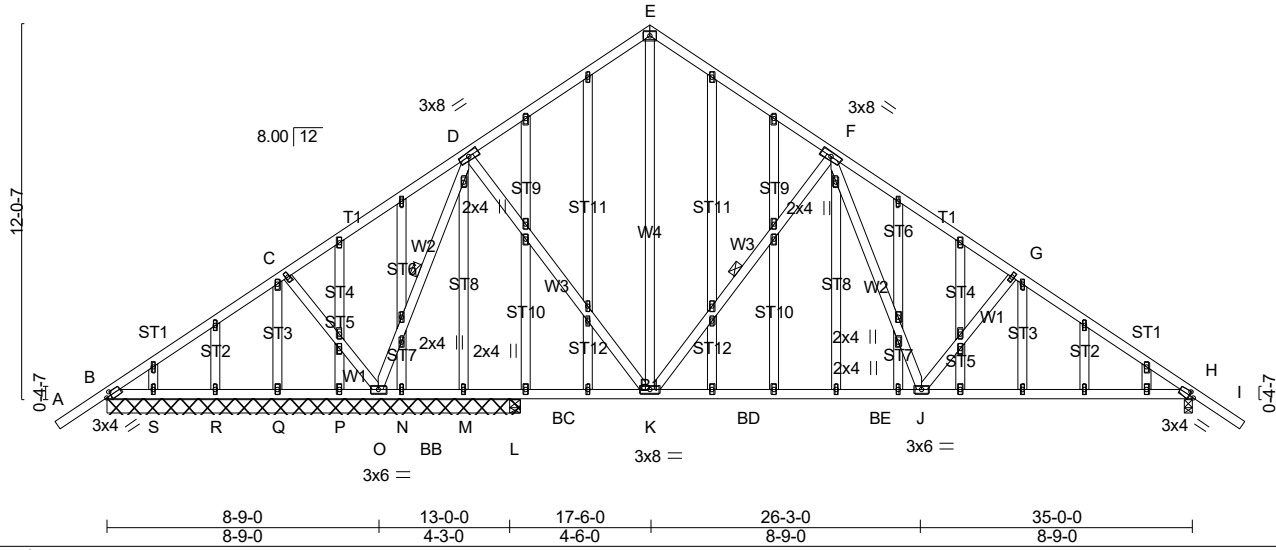


Plate Offsets (X,Y)-- [B:0-2-0,0-1-8], [H:0-2-0,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.37	Vert(LL) -0.20	J-K	>999	360	MT20	220/195
TCDL 7.0	Plate Grip DOL 1.15	BC 0.41	Vert(CT) -0.27	J-K	>949	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.51	Horz(CT) 0.03	H	n/a	n/a		
BCDL 7.0	Rep Stress Incr YES	Matrix-SH	Wind(LL) 0.05	H-J	>999	240		
	Code IRC2015/TPI2014						Weight: 302 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
 BOT CHORD 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
 WEBS 2x4 DF Stud/Std
 OTHERS 2x4 DF Stud/Std *Except*
 ST11,ST8: 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E

BRACING-
 TOP CHORD Sheathed or 5-0-1 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt F-K, D-O

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 13-3-8 except (jt=length) H=0-3-8, L=0-3-8.
 (lb) - Max Horz B=-332(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) B, M, S except H=-291(LC 9), O=-480(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) M, N, P, Q, R, S, L except B=313(LC 19), H=1211(LC 1), O=1599(LC 1)

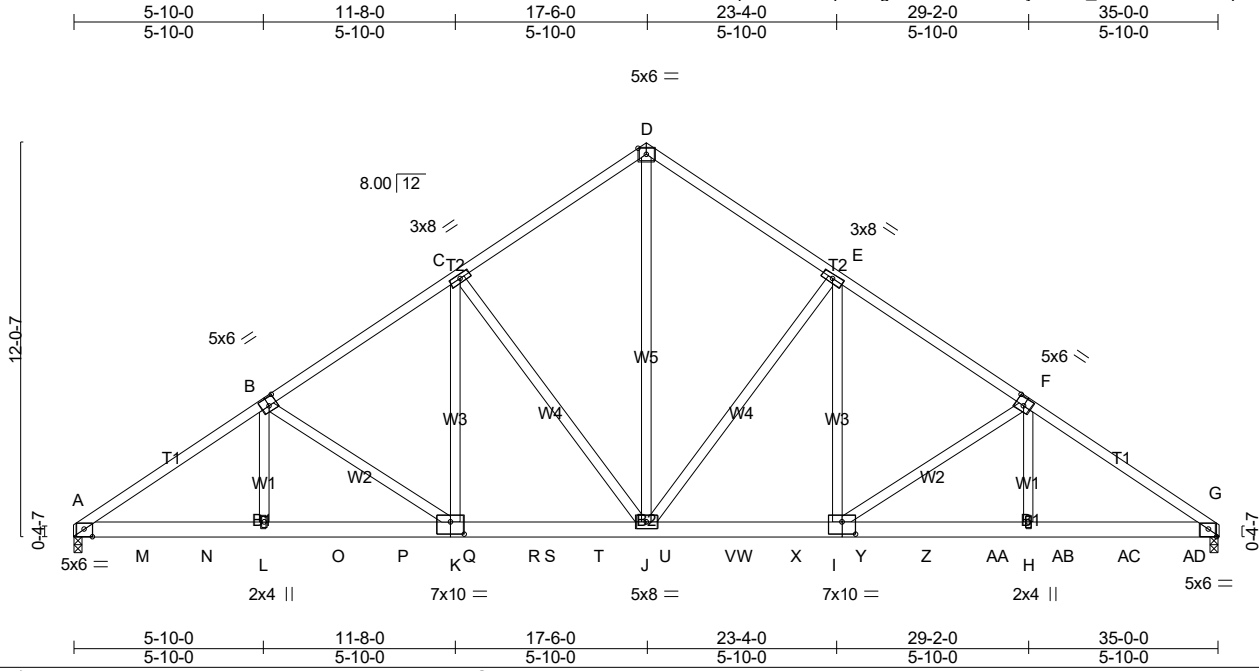
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-215/265, C-D=-92/484, D-E=-715/310, E-F=-705/277, F-G=-1338/367, G-H=-1594/354
 BOT CHORD B-S=-255/247, R-S=-255/247, Q-R=-255/247, P-Q=-255/247, O-P=-255/247, N-O=-118/324,
 N-BB=-118/324, M-BB=-118/324, L-M=-118/324, L-BC=-118/324, K-BC=-118/324,
 K-BD=-26/860, BD-BE=-26/860, J-BE=-26/860, H-J=-167/1222
 WEBS E-K=-188/340, F-K=-703/339, F-J=-122/528, G-J=-341/237, D-K=-21/499, D-O=-1400/309,
 C-O=-367/246

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=4.2psf; BC DL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; Lumber DOL=1.33 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) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, M, S except (jt=lb) H=291, O=480.
 - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 19-043915T	Truss B03	Truss Type COMMON GIRDER	Qty 1	Ply 2	OLIVER THUERNAGLE
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BMC WEST (IDAHO FALLS), IDAHO FALLS, ID 83402
 8.220 s Feb 10 2019 MiTek Industries, Inc. Wed Apr 10 11:19:05 2019 Page 1
 ID:VeDX9UpaOrHGxKqoEZdgmzzS99Q-80vD9y4XQW_mscJe6hrcX0SjQzJo9vI99?1M4zS7Bq



Scale = 1:70.4

Plate Offsets (X,Y)--	[A:0-3-0,0-2-13], [B:0-3-0,0-3-0], [F:0-3-0,0-3-0], [G:0-3-0,0-2-13], [I:0-5-0,0-4-8], [K:0-5-0,0-4-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	PLATES	GRIP
TCLL 30.0	Plate Grip DOL 1.15	TC 0.48	Vert(LL) -0.23 J-K >999 360	MT20	220/195
TCDL 7.0	Lumber DOL 1.15	BC 0.57	Vert(CT) -0.31 J-K >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.60	Horz(CT) 0.10 G n/a n/a		
BCDL 7.0	Code IRC2015/TPI2014	Matrix-SH	Wind(LL) 0.13 J-K >999 240		
				Weight: 440 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
 BOT CHORD 2x6 DF 1800F 1.6E or 2x6 DF SS
 WEBS 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E *Except*
 W2,W1: 2x4 DF Stud/Std

BRACING-
 TOP CHORD Sheathed or 4-6-10 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=5092/0-3-8 (min. 0-2-11), G=5326/0-3-8 (min. 0-2-13)
 Max Horz A=304(LC 26)
 Max Uplift A=-1270(LC 8), G=-1333(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-B=-8191/2024, B-C=-6532/1658, C-D=-4944/1352, D-E=-4943/1352, E-F=-6544/1661, F-G=-8194/2032
 BOT CHORD A-M=-1793/6693, M-N=-1793/6693, L-N=-1793/6693, L-O=-1788/6670, O-P=-1788/6670, K-P=-1788/6670, K-Q=-1338/5337, Q-R=-1338/5337, R-S=-1338/5337, S-T=-1338/5337, J-T=-1338/5337, J-U=-1218/5347, U-V=-1218/5347, V-W=-1218/5347, W-X=-1218/5347, I-X=-1218/5347, I-Y=-1590/6693, Y-Z=-1590/6693, Z-AA=-1590/6693, H-AA=-1590/6693, H-AB=-1595/6717, AB-AC=-1595/6717, AC-AD=-1595/6717, G-AD=-1595/6717
 WEBS D-J=-1340/4934, E-J=-2236/750, E-I=-588/2229, F-I=-1629/548, F-H=-335/1449, C-J=-2221/746, C-K=-583/2210, B-K=-1612/543, B-L=-330/1432

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=4.2psf; BCCL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; Lumber DOL=1.33 plate grip DOL=1.33
 - 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 BCCL = 7.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=1270, G=1333.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	OLIVER THUERNAGLE
19-043915T	B03	COMMON GIRDER	1	2	Job Reference (optional)

BMC WEST (IDAHO FALLS), IDAHO FALLS, ID 83402

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 ID:VeDX9UpaOrHGxKqoEZdgmzzS99Q-cCTbMi59Bq6dUluqgOMr4E?UazDYXc9ROolauWzS7Bp

NOTES-

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 433 lb down and 123 lb up at 2-0-12, 433 lb down and 123 lb up at 4-0-12, 433 lb down and 123 lb up at 6-0-12, 433 lb down and 123 lb up at 8-0-12, 433 lb down and 123 lb up at 10-0-12, 433 lb down and 123 lb up at 12-0-12, 433 lb down and 123 lb up at 14-0-12, 433 lb down and 123 lb up at 16-0-12, 433 lb down and 123 lb up at 18-0-12, 433 lb down and 123 lb up at 20-0-12, 433 lb down and 123 lb up at 22-0-12, 433 lb down and 123 lb up at 24-0-12, 433 lb down and 123 lb up at 26-0-12, 433 lb down and 123 lb up at 28-0-12, 433 lb down and 123 lb up at 30-0-12, and 433 lb down and 123 lb up at 32-0-12, and 435 lb down and 121 lb up at 34-0-12 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=-74, D-G=-74, A-G=-14

Concentrated Loads (lb)

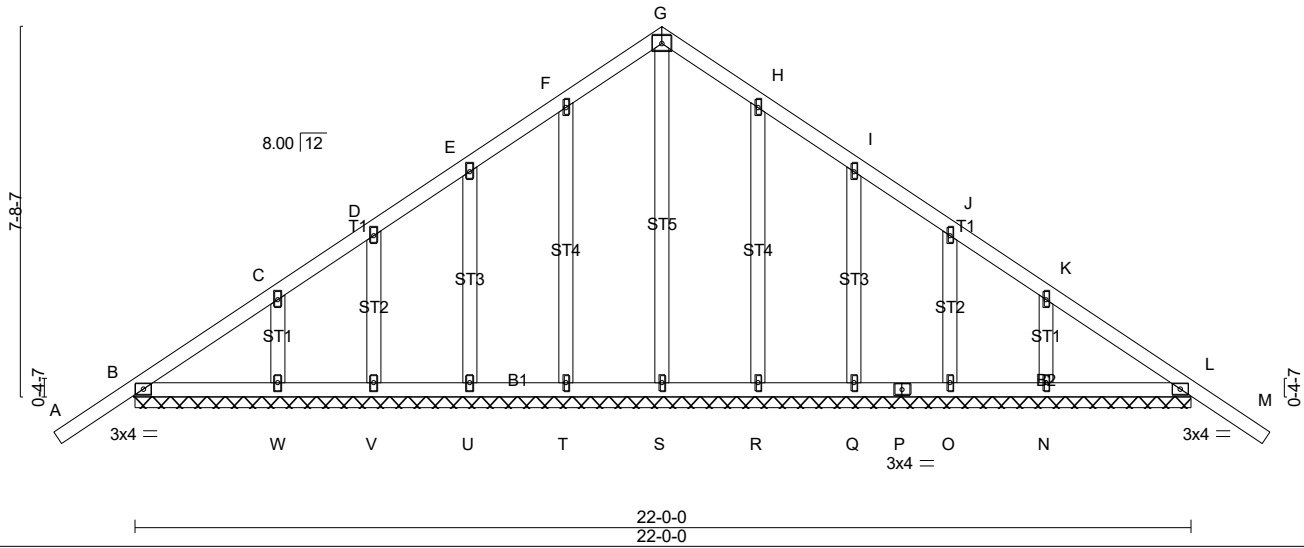
Vert: L=-433(B) M=-433(B) N=-433(B) O=-433(B) P=-433(B) Q=-433(B) R=-433(B) T=-433(B) U=-433(B) V=-433(B) X=-433(B) Y=-433(B) Z=-433(B) AA=-433(B)
 AB=-433(B) AC=-433(B) AD=-435(B)

Job 19-043915T	Truss C01	Truss Type Common	Qty 1	Ply 1	OLIVER THUERNAGLE
BMC WEST (IDAHO FALLS), IDAHO FALLS, ID 83402					Job Reference (optional)

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 ID:VeDX9UpaOrHGxKqoEZdgmzzS99Q-ZbbMn_6PJrMLj32DopOJ9f4vMn1N?e7kr6EhyPzS7Bn



Scale: 1/4"=1'



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 30.0	Plate Grip DOL 1.15	TC 0.14	Vert(LL) -0.01 M n/r 120	MT20	220/195
TCDL 7.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.01 M n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.01 L n/a n/a		
BCDL 7.0	Code IRC2015/TPI2014	Matrix-SH			
				Weight: 122 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
 BOT CHORD 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
 OTHERS 2x4 DF Stud/Std *Except*
 ST5: 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 22-0-0.
 (lb) - Max Horz B=-219(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) B, T, U, V, R, Q, O, L except W=-101(LC 8), N=-100(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) S, T, U, V, W, R, Q, O, N except B=277(LC 1), L=277(LC 1)

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

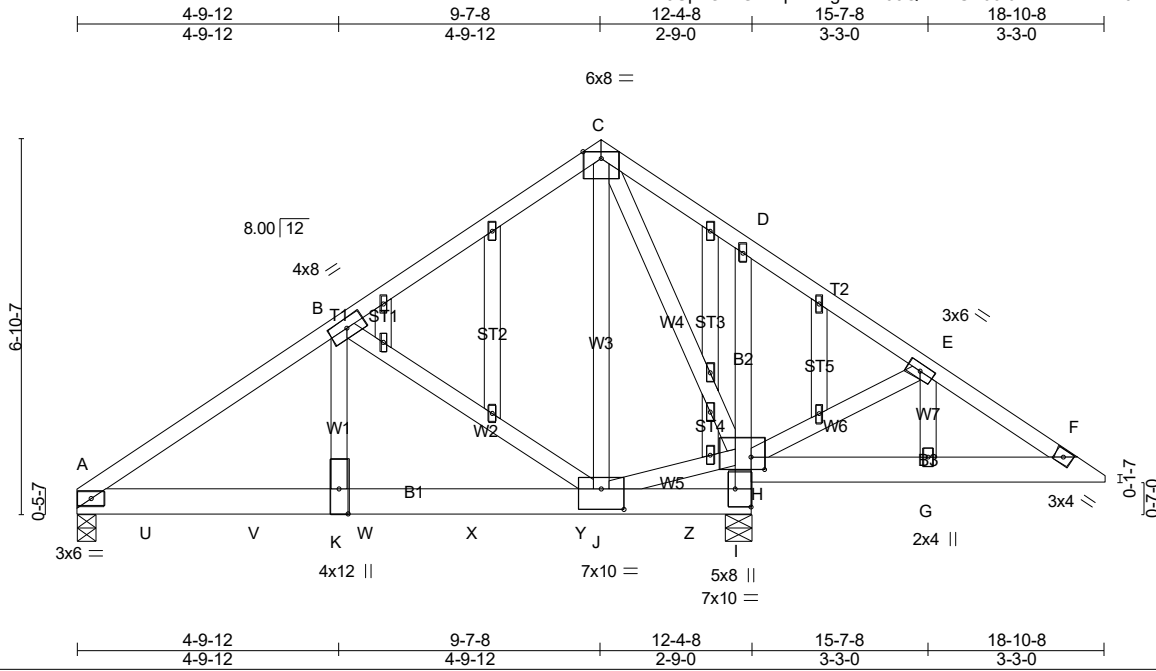
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 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.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, T, U, V, R, Q, O, L except (jt=lb) W=101, N=100.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 19-043915T	Truss D01	Truss Type GABLE	Qty 1	Ply 2	OLIVER THUERNAGLE
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BMC WEST (IDAHO FALLS), IDAHO FALLS, ID 83402

ID:VeDX9UpaOrHGxKqoEZdgmzzS99Q-zAHUP09IOMlwaXmoTxx0nHiOH_txCoxBX4SLZjzS7Bk
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Scale = 1:42.3

Plate Offsets (X,Y)-- [H:0-3-0-0-2-12], [I:Edge,0-3-8], [J:0-5-0-0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.29	Vert(LL) -0.07	J-K	>999	360	MT20	220/195
TCDL 7.0	Plate Grip DOL 1.15	BC 0.74	Vert(CT) -0.11	J-K	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.89	Horz(CT) 0.02	I	n/a	n/a		
BCDL 7.0	Rep Stress Incr NO	Matrix-SH	Wind(LL) 0.04	J-K	>999	240		
	Code IRC2015/TPI2014						Weight: 257 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
BOT CHORD 2x6 DF 1800F 1.6E or 2x6 DF SS *Except*
B2: 2x4 DF Stud/Std
WEBS 2x4 DF Stud/Std
OTHERS 2x4 DF Stud/Std

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-6-10 oc bracing.

REACTIONS. (lb/size) A=4029/0-4-0 (min. 0-2-3), I=4985/0-5-8 (min. 0-2-11)
Max Horz A=167(LC 24)
Max Uplift A=-874(LC 8), I=-1040(LC 9)
Max Grav A=4105(LC 19), I=4985(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-5082/1075, B-C=-1783/412, C-D=-53/410, D-E=-91/478, E-F=-51/254
BOT CHORD A-U=-941/4126, U-V=-941/4126, K-V=-941/4126, K-W=-941/4126, W-X=-941/4126,
X-Y=-941/4126, J-Y=-941/4126, H-I=-4372/921, D-H=-302/169
WEBS B-K=-675/3386, B-J=-3314/829, C-J=-882/4012, H-J=-353/1553, C-H=-3919/777

- NOTES-**
- 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 0-6-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=4.2psf; BC DL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.33 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.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=874, I=1040.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1235 lb down and 269 lb up at 1-3-12, 1235 lb down and 269 lb up at 3-3-12, 1235 lb down and 269 lb up at 5-3-12, 1235 lb down and 269 lb up at 7-3-12, and 1235 lb down and 269 lb up at 9-3-12, and 1235 lb down and 269 lb up at 11-3-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	OLIVER THUERNAGLE
19-043915T	D01	GABLE	1	2	Job Reference (optional)

BMC WEST (IDAHO FALLS), IDAHO FALLS, ID 83402

8.220 s Feb 10 2019 MiTek Industries, Inc. Wed Apr 10 11:19:12 2019 Page 2
 ID:VeDX9UpaOrHGxKqoEZdgmzzS99Q-RMqtdMAwngtnCgL_1fTFKVFZ1ODAxFBKmkCu5AzS7Bj

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: A-C=-74, C-F=-74, A-I=-14, F-H=-14

Concentrated Loads (lb)

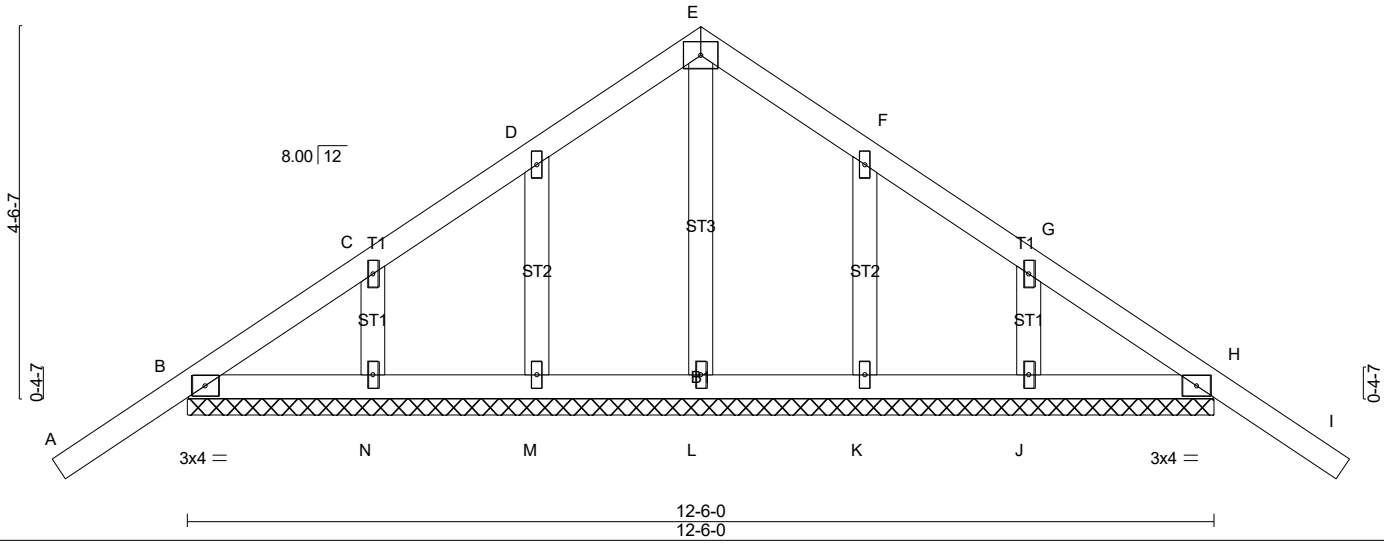
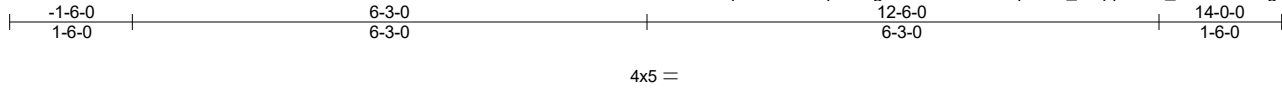
Vert: U=-1235(F) V=-1235(F) W=-1235(F) X=-1235(F) Y=-1235(F) Z=-1235(F)

Job 19-043915T	Truss E01	Truss Type Common	Qty 1	Ply 1	OLIVER THUERNAGLE
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BMC WEST (IDAHO FALLS), IDAHO FALLS, ID 83402

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ID:VeDX9UpaOrHGXXkqoEZdgmzzS99Q-vZOFqhAYY_?eqqwaAm_Usinm5okDgveT?OxSeczS7Bi



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.14	in (loc) l/defl L/d	MT20	220/195
TCDL 7.0	Plate Grip DOL 1.15	BC 0.05	Vert(LL) -0.01 l n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Vert(CT) -0.02 l n/r 120		
BCDL 7.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.00 H n/a n/a		
	Code IRC2015/TPI2014			Weight: 59 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
BOT CHORD 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
OTHERS 2x4 DF Stud/Std

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 12-6-0.
(lb) - Max Horz B=136(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) B, H, M, N, K, J
Max Grav All reactions 250 lb or less at joint(s) L, M, N, K, J except B=262(LC 1), H=262(LC 1)

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

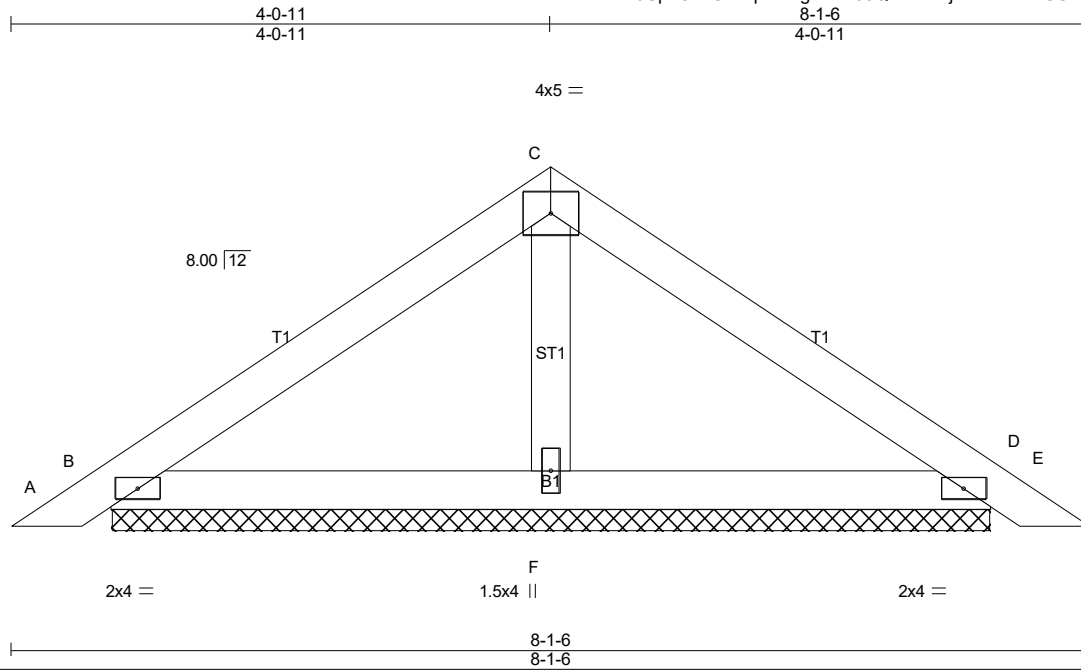
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCCL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; Lumber DOL=1.33 plate grip DOL=1.33
 - 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.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, H, M, N, K, J.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) B, H.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job 19-043915T	Truss PB01	Truss Type Piggyback	Qty 31	Ply 1	OLIVER THUERNAGLE Job Reference (optional)
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BMC WEST (IDAHO FALLS), IDAHO FALLS, ID 83402

8.220 s Feb 10 2019 MiTek Industries, Inc. Wed Apr 10 11:19:16 2019 Page 1
ID:VeDX9UpaOrHGxKqoEZdgmzzS99Q-K74NTjDRrvNDhffGUXBULPH2?lqtGNwhMA6ExzS7Bf



Scale = 1:17.3

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.16	in (loc) l/defl L/d	MT20	220/195
TCDL 7.0	Plate Grip DOL 1.15	BC 0.06	Vert(LL) 0.01 E n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Vert(CT) 0.01 E n/r 120		
BCDL 7.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 D n/a n/a		
	Code IRC2015/TPI2014			Weight: 25 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
BOT CHORD 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
OTHERS 2x4 DF Stud/Std

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) B=203/6-7-8 (min. 0-1-8), D=203/6-7-8 (min. 0-1-8), F=249/6-7-8 (min. 0-1-8)
 Max Horz B=-66(LC 6)
 Max Uplift B=-62(LC 8), D=-71(LC 9), F=-18(LC 8)

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

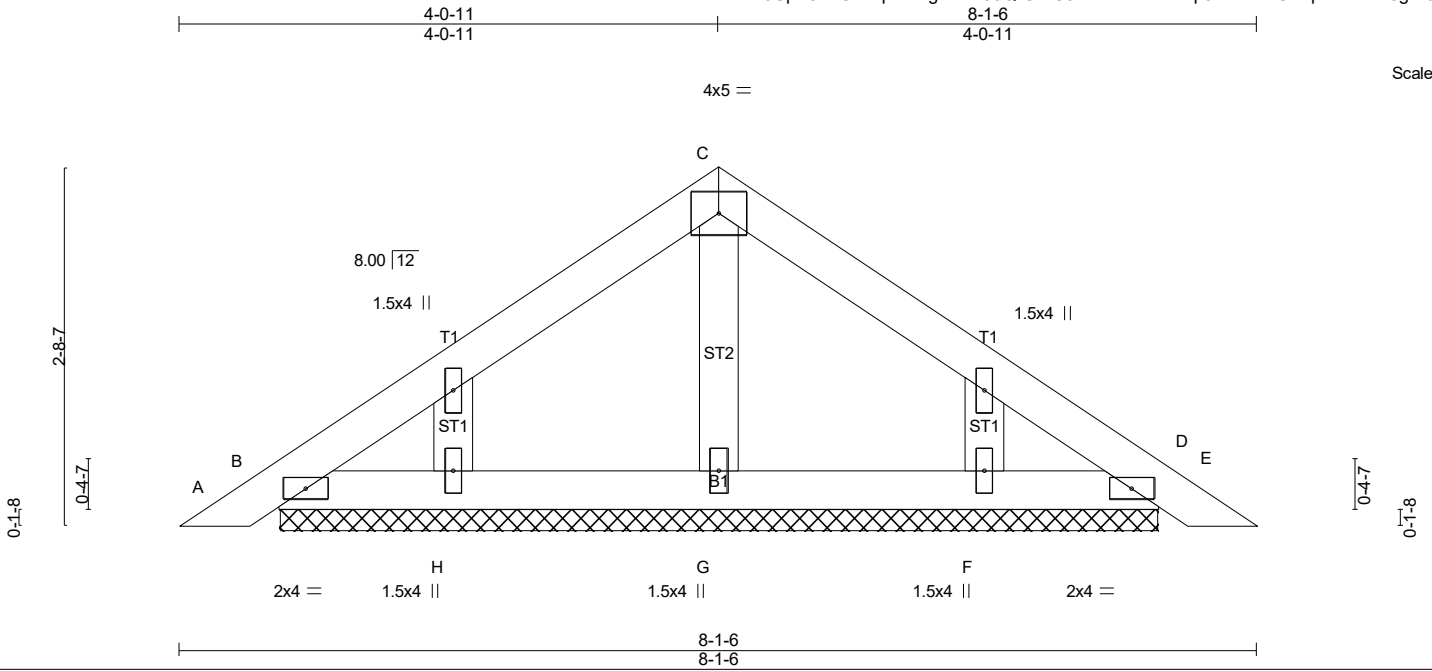
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=4.2psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; Lumber DOL=1.33 plate grip DOL=1.33
 - 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) B, D, F.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job 19-043915T	Truss PB02	Truss Type GABLE	Qty 2	Ply 1	OLIVER THUERNAGLE Job Reference (optional)
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BMC WEST (IDAHO FALLS), IDAHO FALLS, ID 83402

ID:VeDX9UpaOrHGxKqoEZdgmzzS99Q-GWC8uPEhNWdwwbp8NvZfZmUdYpRkLAVD8gfdJqzS7Bd
8.220 s Feb 10 2019 MiTek Industries, Inc. Wed Apr 10 11:19:18 2019 Page 1



Scale = 1:17.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 30.0	Plate Grip DOL	1.15	TC 0.16	Vert(LL)	0.01	E	n/r	120	MT20
TCDL 7.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	0.01	E	n/r	120	220/195
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	D	n/a	n/a	
BCDL 7.0	Code IRC2015/TPI2014		Matrix-P						Weight: 27 lb FT = 20%

LUMBER-
TOP CHORD 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
BOT CHORD 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
OTHERS 2x4 DF Stud/Std

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 6-7-8.
(lb) - Max Horz B=-66(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) B, D
Max Grav All reactions 250 lb or less at joint(s) G, H, F except B=287(LC 1), D=287(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-270/86, C-D=-270/86

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=4.2psf; BC DL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.33 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.
 - 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) B, D.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard