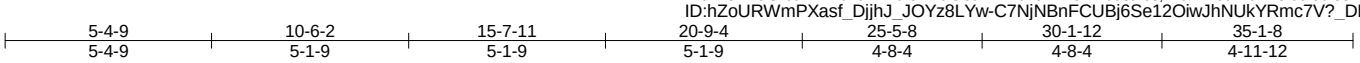
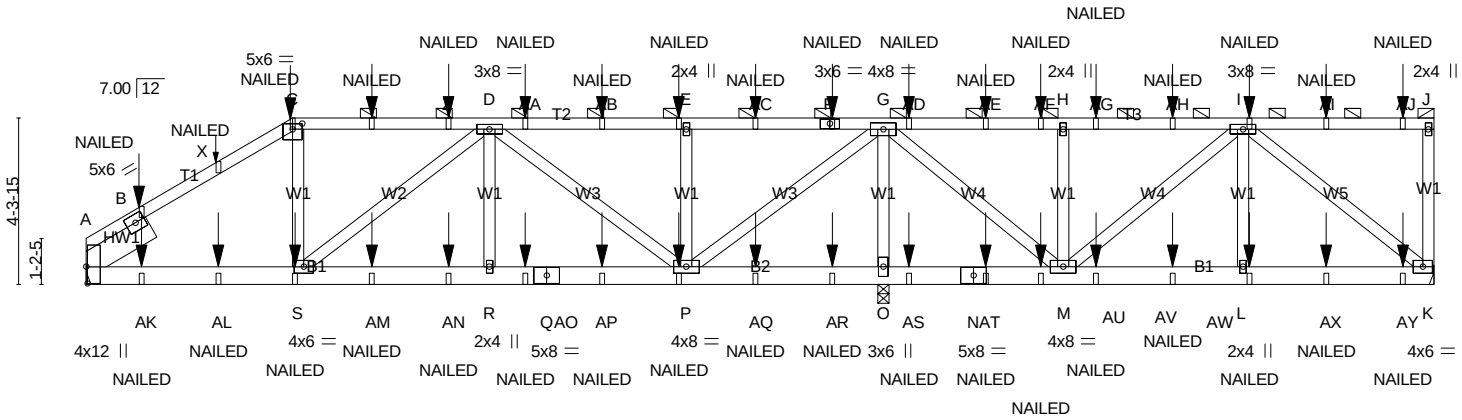
Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A01	Half Hip Girder	1	2	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:50:35 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-C7NjNBnFCUBj6Se12OiwJhNUkYRmc7V?_DNfNUyFhd2



Scale = 1:60.0



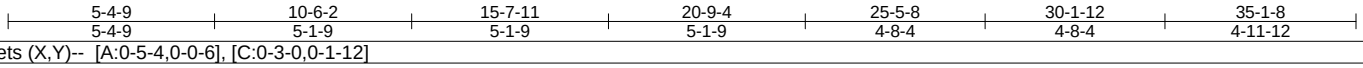


Plate Offsets (X,Y)-- [A:0-5-4,0-0-6], [C:0-3-0,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	0.05	R-S	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.05	R-S	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.24	Horz(CT)	-0.01	A	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 463 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x8 SP DSS 1-11-12

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

REACTIONS. (lb/size) A=1156/Mechanical, K=753/Mechanical, O=2835/0-3-8 (min. 0-1-12)
Max Horz A=165(LC 23)
Max Uplift A=-520(LC 8), K=-408(LC 5), O=-1744(LC 5)
Max Grav A=1156(LC 1), K=753(LC 1), O=2922(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-575/257, B-X=-1375/710, C-X=-1304/724, C-Y=-1135/665, Y-Z=-1135/665, D-Z=-1135/665, D-AA=-610/384, AA-AB=-610/384, E-AB=-610/384, E-AC=-610/384, F-AC=-610/384, F-G=-610/384
BOT CHORD A-AK=-662/1123, AK-AL=-662/1123, S-AL=-662/1123, S-AM=-828/1351, AM-AN=-828/1351, R-AN=-828/1351, R-AO=-828/1351, Q-AO=-828/1351, Q-AP=-828/1351, P-AP=-828/1351, P-AQ=-981/565, AQ-AR=-981/565, O-AR=-981/565, O-AS=-981/565, N-AS=-981/565, N-AT=-981/565, AT-AU=-981/565, M-AU=-981/565, M-AV=-303/536, AV-AW=-303/536, L-AW=-303/536, L-AX=-303/536, AX-AY=-303/536, K-AY=-303/536
WEBS C-S=-80/421, D-S=-358/275, D-R=-21/393, D-P=-943/561, E-P=-471/424, G-P=-1165/1950, G-O=-2618/1702, G-M=-860/1461, H-M=-460/417, I-M=-506/265, I-L=0/388, I-K=-660/370

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=520, K=408, O=1744.
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.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) "NAILED" indicates 3-10d Nails (0.148" x 3") toe-nails per NDS guidelines.

Continued on page 2

LOAD CASE(S) Standard

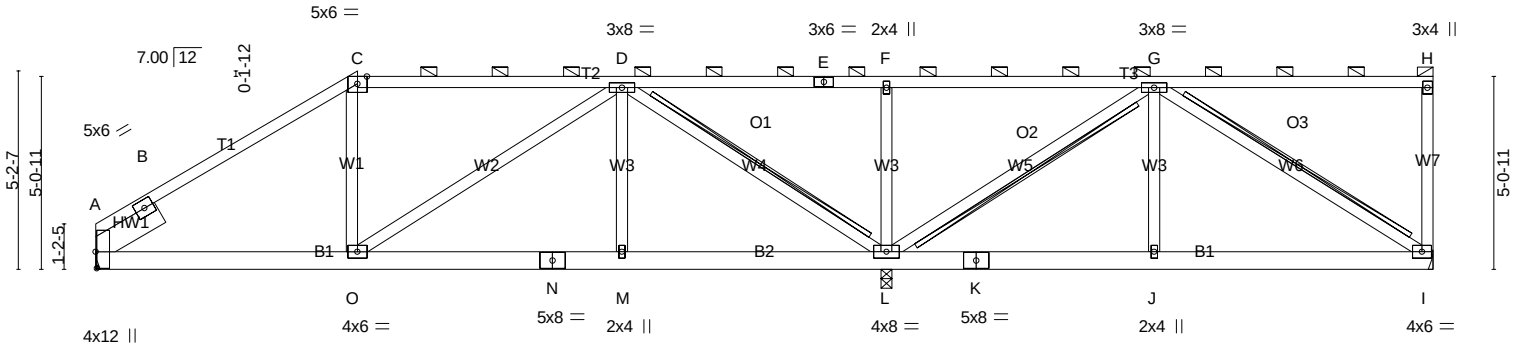
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: A-C=-60, C-J=-60, K-T=-20
   Concentrated Loads (lb)
      Vert: C=-70(F) F=-70(F) S=-32(F) P=-32(F) E=-70(F) L=-32(F) I=-95(F) B=-58(F) Y=-70(F) Z=-70(F) AA=-70(F) AB=-70(F) AC=-70(F) AD=-70(F) AE=-70(F) AF=-70(F) AG=-70(F) AH=-70(F) AI=-95(F) AJ=-105(F) AK=-55(F) AL=-104(F) AM=-32(F) AN=-32(F) AO=-32(F) AP=-32(F) AQ=-32(F) AR=-32(F) AS=-32(F) AT=-32(F) AU=-32(F) AV=-32(F) AW=-32(F) AX=-32(F) AY=-36(F)

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A02	Half Hip	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:50:36 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-gKx5aXotznJakcCDc6D9suwYqynVLWZ8Ds7CwxyFhd1

6-10-8	13-9-14	20-9-4	27-9-10	35-1-8
6-10-8	6-11-6	6-11-6	7-0-6	7-3-14

Scale = 1:60.5



6-10-8	13-9-14	20-9-4	27-9-10	35-1-8
6-10-8	6-11-6	6-11-6	7-0-6	7-3-14

Plate Offsets (X,Y)-- [A:0-5-4,0-0-6]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.03	M-O	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.07	M-O	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.02	I	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.04	M-O	>999	240	Weight: 222 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
W7: 2x4 SP No.2
SLIDER Left 2x8 SP DSS 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-2 oc purlins, except end verticals, and 2-0-0 oc purlins (5-10-4 max.): C-H.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - D-L, G-L, G-I
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

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

REACTIONS. (lb/size) A=746/Mechanical, I=445/Mechanical, L=1607/0-3-8 (min. 0-1-14)
Max Horz A=204(LC 12)
Max UpliftA=-183(LC 12), I=-170(LC 9), L=-532(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-447/262, B-C=-915/345, C-D=-718/364, D-E=-158/353, E-F=-158/353, F-G=-158/353
BOT CHORD A-O=-360/718, N-O=-326/641, M-N=-326/641, L-M=-326/641, K-L=-164/319, J-K=-164/319, I-J=-164/319
WEBS D-M=0/281, D-L=-1134/413, F-L=-404/278, G-L=-776/294, G-J=0/303, G-I=-350/179

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=183, I=170, L=532.
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.
10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

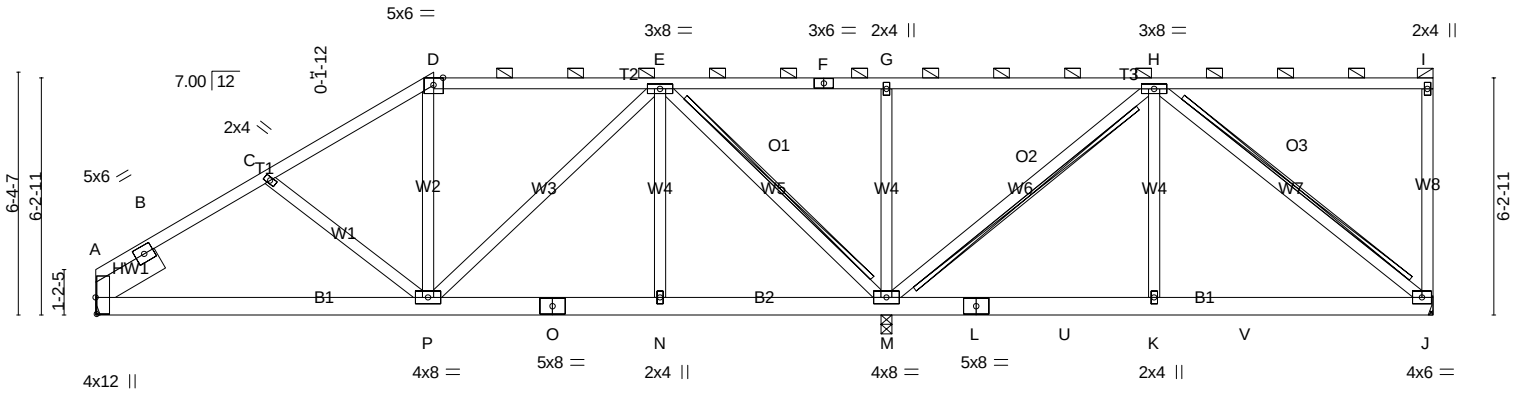
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A03	Half Hip	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:50:37 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-8WVTotoWk5RRMlnP9pkOO6TjHM7a4_xISWsmSNyFhd0

4-7-0	8-10-8	14-9-14	20-9-4	27-9-10	35-1-8
4-7-0	4-3-8	5-11-6	5-11-6	7-0-6	7-3-14

Scale = 1:60.5



8-10-8	14-9-14	20-9-4	27-9-10	35-1-8
8-10-8	5-11-6	5-11-6	7-0-6	7-3-14

Plate Offsets (X,Y)-- [A:0-5-4,0-0-6]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.03	P-S	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.06	P-S	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.01	J	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.03	N-P	>999	240	Weight: 241 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except*
	W8: 2x4 SP No.2
SLIDER	Left 2x8 SP DSS 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-8-15 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): D-I.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - E-M, H-M, H-J

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

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

REACTIONS. (lb/size) A=721/Mechanical, J=408/Mechanical, M=1669/0-3-8 (min. 0-2-0)
Max Horz A=265(LC 12)
Max Uplift A=-155(LC 12), J=-172(LC 8), M=-551(LC 9)
Max Grav A=721(LC 1), J=448(LC 26), M=1669(LC 1)

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

TOP CHORD	A-B=-378/0, B-C=-884/297, C-D=-724/252, D-E=-577/270, E-F=-123/337, F-G=-123/337, G-H=-123/337
BOT CHORD	A-P=-418/783, O-P=-170/364, N-O=-170/364, M-N=-170/364, L-M=-110/293, L-U=-110/293, K-U=-110/293, K-V=-110/293, J-V=-110/293
WEBS	C-P=-271/229, E-P=-148/338, E-M=-983/411, G-M=-376/258, H-M=-733/263, H-K=0/327, H-J=-356/129

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=155, J=172, M=551.
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.
10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

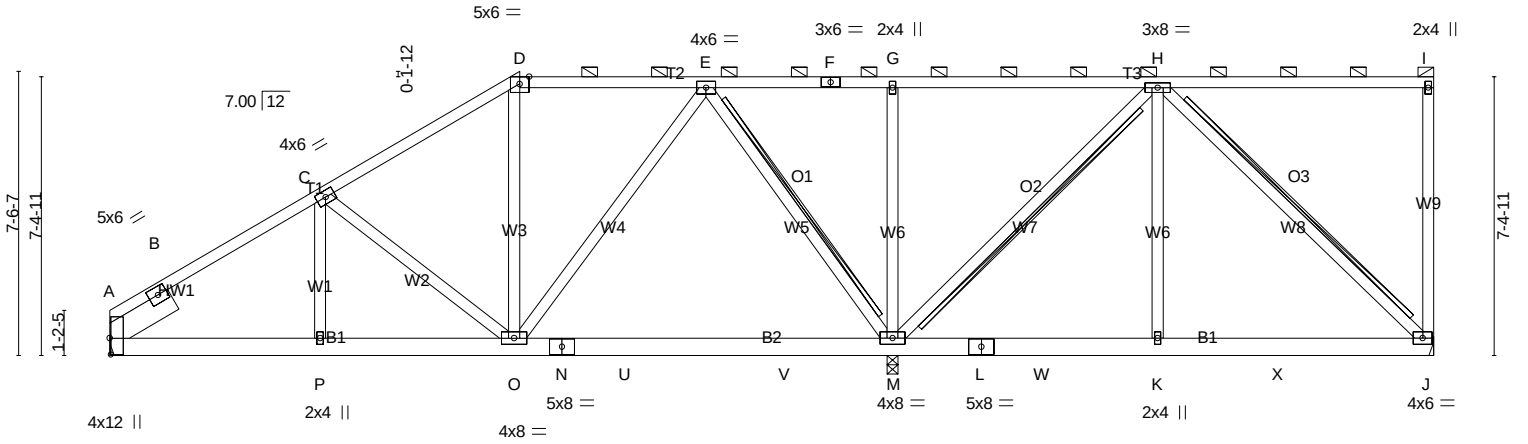
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A04	Half Hip	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:50:38 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-ci3s?Dp8VPZIzvMbjXFdxJ?uxmSopQTRgAcJ_pyFhd?

5-7-0	10-10-8	15-9-14	20-9-4	27-9-10	35-1-8
5-7-0	5-3-8	4-11-6	4-11-6	7-0-6	7-3-14

Scale = 1:61.1



5-7-0	10-10-8	20-9-4	27-9-10	35-1-8
5-7-0	5-3-8	9-10-12	7-0-6	7-3-14

Plate Offsets (X,Y)-- [A:0-5-4,0-0-6]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.08	M-O	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.14	M-O	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.01	J	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.02	O-P	>999	240	Weight: 250 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except*
	W9: 2x4 SP No.2
SLIDER	Left 2x8 SP DSS 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-11-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): D-I.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - E-M, H-M, H-J

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

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

REACTIONS. (lb/size) A=715/Mechanical, J=398/Mechanical, M=1685/0-3-8 (min. 0-2-0)
Max Horz A=326(LC 12)
Max Uplift A=-172(LC 12), J=-196(LC 8), M=-499(LC 9)
Max Grav A=715(LC 1), J=453(LC 26), M=1697(LC 2)

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

TOP CHORD	A-B=-278/0, B-C=-864/271, C-D=-619/228, D-E=-495/253, E-F=-60/295, F-G=-60/295, G-H=-60/295
BOT CHORD	A-P=-440/819, O-P=-440/819
WEBS	C-O=-413/277, E-O=-148/542, E-M=-835/393, G-M=-354/243, H-M=-687/218, H-K=0/333, H-J=-316/156

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=172, J=196, M=499.
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.
10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A05	Half Hip	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:50:39 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-4ucEDZqmGih8b3xoHEmsTXY2vApnYn9bvqLsWGyFhd_

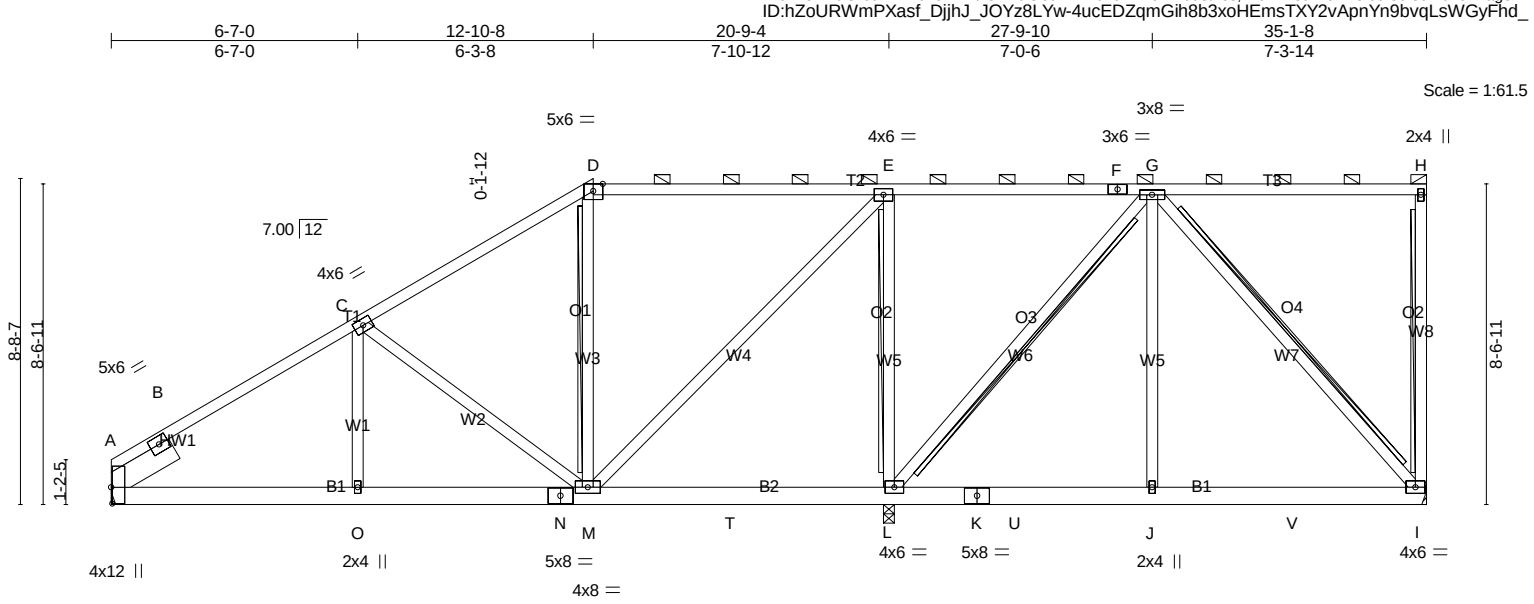


Plate Offsets (X,Y)-- [A:0-5-4,0-0-6]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.03	L-M	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.06	M-O	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(CT)	-0.01	I	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.02	M-O	>999	240	Weight: 255 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except* W8: 2x4 SP No.2
SLIDER	Left 2x8 SP DSS 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-8-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): D-H.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: L-M.
WEBS	T-Brace: 2x4 SPF No.2 - H-I, D-M, E-L, G-L, G-I Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

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

REACTIONS. (lb/size) A=743/Mechanical, I=440/Mechanical, L=1616/0-3-8 (min. 0-1-15)
Max Horz A=386(LC 12)
Max Uplift A=-193(LC 12), I=-220(LC 8), L=-418(LC 9)
Max Grav A=743(LC 1), I=513(LC 26), L=1661(LC 2)

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

TOP CHORD	A-B=-263/0, B-C=-907/283, C-D=-545/232, D-E=-451/270
BOT CHORD	A-O=-492/892, N-O=-492/892, M-N=-492/892, K-L=-121/251, K-U=-121/251, J-U=-121/251, J-V=-121/251, I-V=-121/251
WEBS	C-M=-556/324, E-M=-311/800, E-L=-1048/549, G-L=-589/108, G-J=0/380, G-I=-365/173

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=193, I=220, L=418.
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.
10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A06	Roof Special Girder	1	3	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:50:40 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-Y5AcQvrO10p?DDW_ryH50k5DDZ7oHEQk8U5Q2iyFhcz

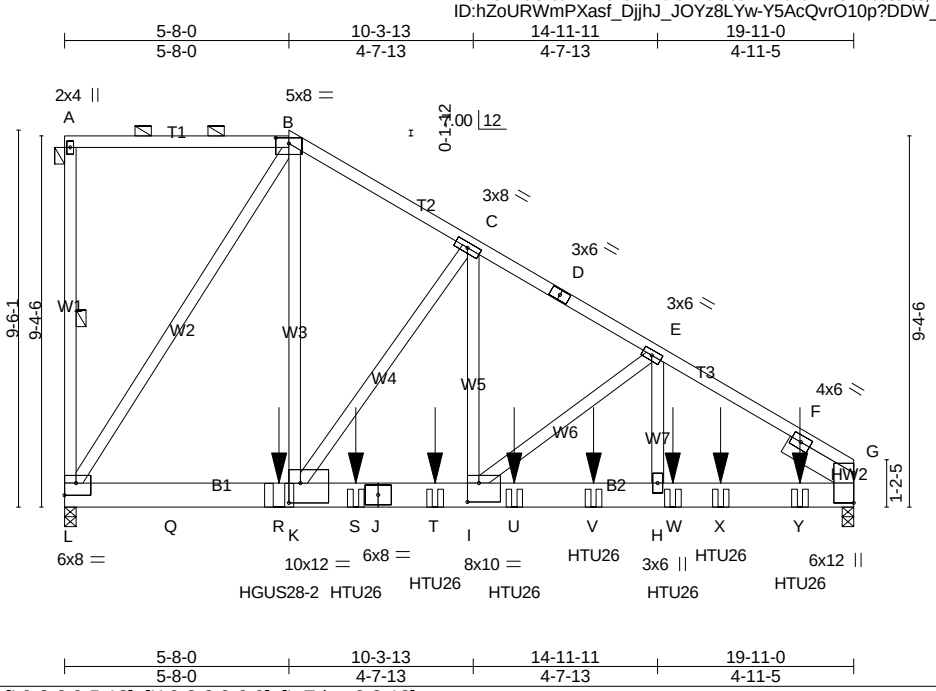


Plate Offsets (X,Y)-- [B:0-4-0,0-1-11], [I:0-3-8,0-5-12], [K:0-3-8,0-6-0], [L:Edge,0-3-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.09	H-I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.17	H-I	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.04	G	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.09	H-I	>999	240	Weight: 516 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP DSS
WEBS 2x4 SP No.2
SLIDER Right 2x6 SP No.2 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): A-B.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt A-L

REACTIONS. (lb/size) L=6006/0-3-8 (min. 0-2-6), G=6904/0-3-8 (min. 0-2-11)
Max Horz L=-428(LC 9)
Max UpliftL=-1972(LC 9), G=-1856(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-4224/1327, C-D=-6744/1893, D-E=-6805/1877, E-F=-8507/2315, F-G=-5010/1236
BOT CHORD L-Q=-977/3488, Q-R=-977/3488, K-R=-977/3488, K-S=-1411/5861, J-S=-1411/5861, J-T=-1411/5861, I-T=-1411/5861, I-U=-1879/7209, U-V=-1879/7209, H-V=-1879/7209, H-W=-1879/7209, W-X=-1879/7209, X-Y=-1879/7209, G-Y=-1879/7209
WEBS B-L=-6623/2209, B-K=-2396/7394, C-K=-3881/1099, C-I=-977/4166, E-I=-1811/592, E-H=-464/1981

NOTES-
1) 3-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: 2x8 - 4 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) L=1972, G=1856.
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.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Use Simpson Strong-Tie HGUS28-2 (36-10d Girder, 12-10d Truss) or equivalent at 5-5-0 from the left end to connect truss(es) E01 (2 ply 2x6 SP) to front face of bottom chord.
12) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 7-4-4 from the left end to 18-6-12 to connect truss(es) E02 (1 ply 2x6 SP), E03 (1 ply 2x6 SP), E04 (1 ply 2x6 SP), E05 (1 ply 2x6 SP) , E06 (1 ply 2x6 SP) to front face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.

Continued on page 2

LOAD CASE(S) Standard

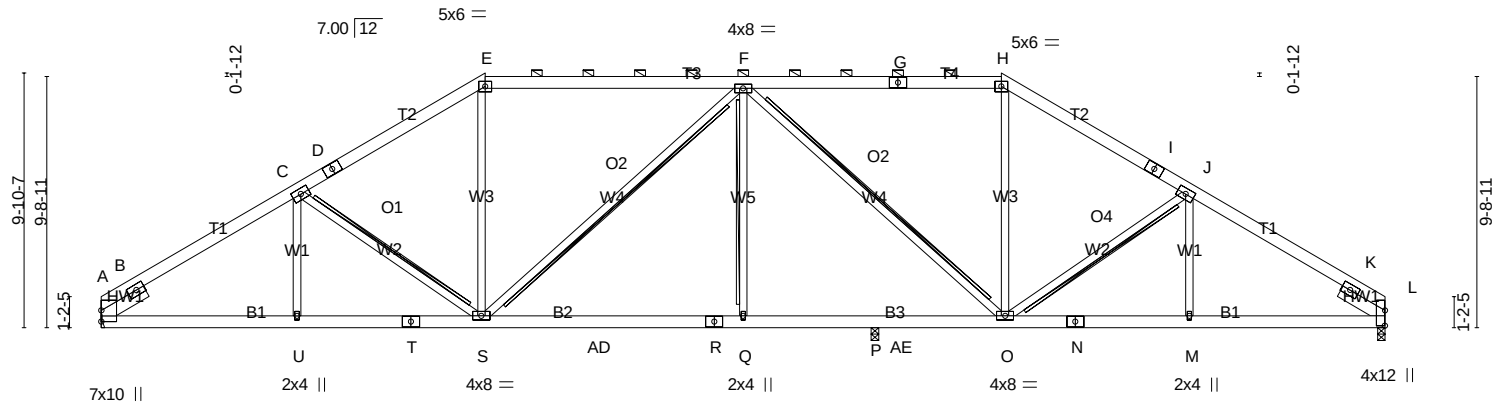
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: A-B=-60, B-G=-60, L-M=-20
   Concentrated Loads (lb)
      Vert: R=-3398(F) S=-1133(F) T=-1133(F) U=-1133(F) V=-1133(F) W=-1133(F) X=-1133(F) Y=-1133(F)

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A07	Hip	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:50:41 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-1Hk_dFs0oKxsqN5AOfoKZydPbzKZ0gLtM8qza8yFhcy

7-7-0	14-10-8	24-10-8	34-10-8	42-2-0	49-9-0
7-7-0	7-3-8	10-0-0	10-0-0	7-3-8	7-7-0

Scale = 1:89.3



7-7-0	14-10-8	24-10-8	30-1-8	34-10-8	42-2-0	49-9-0
7-7-0	7-3-8	10-0-0	5-3-0	4-9-0	7-3-8	7-7-0

Plate Offsets (X,Y)-- [L:0-7-4,0-0-1]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.23	Q-S	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.46	Q-S	>786	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.12	L	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.17	Q-S	>999	240	Weight: 372 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except* B3: 2x6 SP No.1
WEBS	2x4 SP No.3 *Except* W4: 2x4 SP No.2
SLIDER	Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-11-10 oc purlins, except 2-0-0 oc purlins (4-6-9 max.): E-H.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - C-S, F-S, F-Q, F-O, J-O Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

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

REACTIONS. (lb/size) A=1790/Mechanical, L=1686/0-3-8 (min. 0-2-0), P=504/0-3-8 (min. 0-1-8)
Max Horz A=287(LC 9)
Max Uplift A=-397(LC 12), L=-396(LC 13), P=-37(LC 9)
Max Grav A=1790(LC 1), L=1686(LC 1), P=565(LC 2)

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

TOP CHORD	A-B=-668/122, B-C=-2660/984, C-D=-2370/949, D-E=-2269/987, E-F=-1961/935, F-G=-1735/882, G-H=-1734/883, H-I=-2007/927, I-J=-2106/889, J-K=-2517/951, K-L=-552/94
BOT CHORD	A-U=-706/2183, T-U=-706/2183, S-T=-706/2183, S-AD=-638/2201, R-AD=-638/2201, Q-R=-638/2201, P-Q=-638/2201, P-AE=-638/2201, O-AE=-638/2201, N-O=-678/2060, M-N=-678/2060, L-M=-678/2060
WEBS	C-S=-457/339, E-S=-172/694, F-S=-499/388, F-Q=-91/331, F-O=-824/404, H-O=-141/544, J-O=-564/343, J-M=0/275

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are 5x8 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) P except (jt=lb) A=397, L=396.
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.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

Continued on page 2

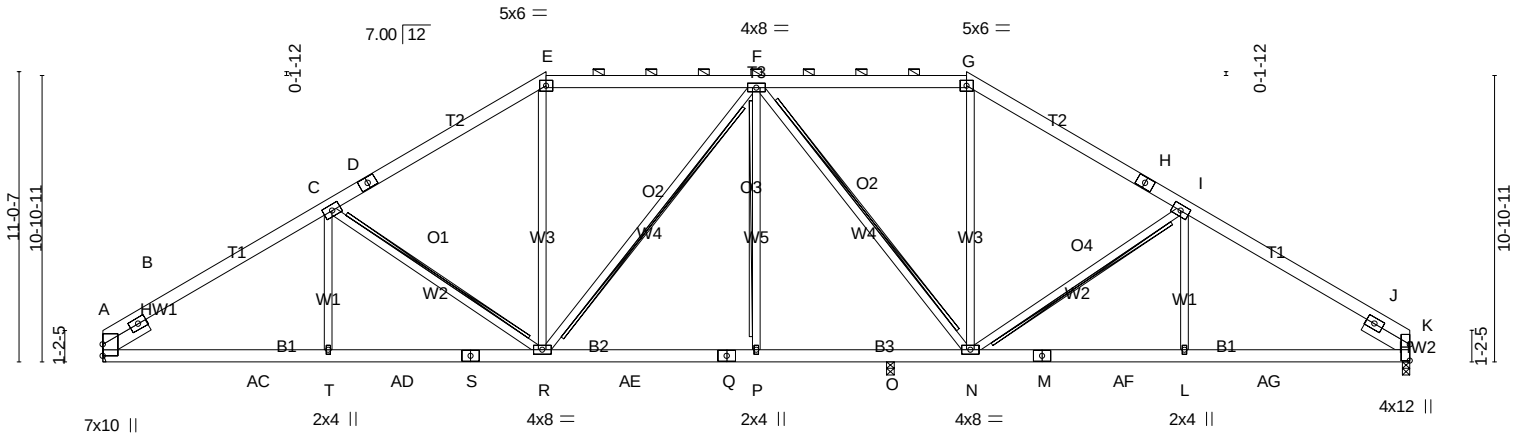
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A08	Hip	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:50:43 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-zgsl2wtGJxBa4gFZW4roeNjmYn22UdqAqSJ4e1yFhcw

8-7-0	16-10-8	24-10-8	32-10-8	41-2-1	49-9-0
8-7-0	8-3-8	8-0-0	8-0-0	8-3-8	8-6-15

Scale = 1:87.7



8-7-0	16-10-8	24-10-8	30-1-8	32-10-8	41-2-1	49-9-0
8-7-0	8-3-8	8-0-0	5-3-0	2-9-0	8-3-8	8-6-15

Plate Offsets (X,Y)-- [K:0-7-8,0-0-1]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.18	P-R	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.34	P-R	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.11	K	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.12	L-N	>999	240	Weight: 382 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except* B3: 2x6 SP DSS
WEBS	2x4 SP No.3 *Except* W4: 2x4 SP No.2
SLIDER	Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-2-8 oc purlins, except 2-0-0 oc purlins (5-5-8 max.): E-G.
BOT CHORD	Rigid ceiling directly applied or 9-4-3 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - C-R, F-R, F-P, F-N, I-N Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

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

REACTIONS. (lb/size) A=1650/Mechanical, K=1475/0-3-8 (min. 0-1-12), O=855/0-3-8 (min. 0-1-8)
Max Horz A=326(LC 9)
Max Uplift A=-397(LC 12), K=-385(LC 13), O=-85(LC 12)
Max Grav A=1676(LC 2), K=1479(LC 2), O=961(LC 2)

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

TOP CHORD	A-B=-659/48, B-C=-2507/891, C-D=-2027/823, D-E=-1924/866, E-F=-1662/836, F-G=-1319/739, G-H=-1476/754, H-I=-1596/710, I-J=-2207/816, J-K=-510/5
BOT CHORD	A-AC=-616/2172, T-AC=-616/2172, T-AD=-616/2172, S-AD=-616/2172, R-S=-616/2172, R-AE=-371/1631, Q-AE=-371/1631, P-Q=-371/1631, O-P=-371/1631, N-O=-371/1631, M-N=-552/1808, M-AF=-552/1808, L-AF=-552/1808, L-AG=-552/1808, K-AG=-552/1808
WEBS	C-T=0/265, C-R=-697/401, E-R=-131/569, F-R=-137/349, F-N=-692/353, G-N=-75/365, I-N=-835/414, I-L=0/384

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are 5x8 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) O except (jt=lb) A=397 , K=385.
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.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

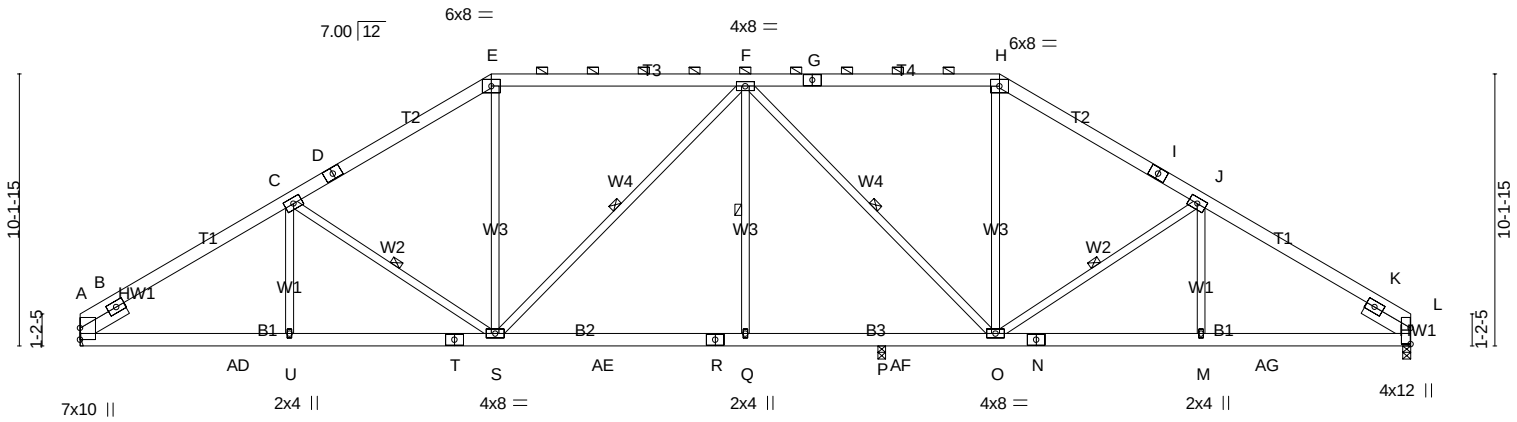
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A09	Piggyback Base	5	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:50:44 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-RsQ7GGuv4FJRhqql4nM1AaFwrBMTD5zK363dBTyFhcv

7-10-0	15-4-9	24-10-8	34-4-8	41-11-0	49-9-0
7-10-0	7-6-8	9-6-0	9-6-0	7-6-8	7-10-0

Scale = 1:86.1



7-10-0	15-4-9	24-10-8	30-1-8	34-4-8	41-11-0	49-9-0
7-10-0	7-6-8	9-6-0	5-3-0	4-3-0	7-6-8	7-10-0

Plate Offsets (X,Y)-- [L:0-7-4,0-0-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.22	Q-S	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.42	Q-S	>865	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.12	L	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.16	Q-S	>999	240	Weight: 375 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
B3: 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
W4: 2x4 SP No.2
SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-1 oc purlins, except 2-0-0 oc purlins (4-9-8 max.): E-H.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt C-S, F-S, F-Q, F-O, J-O

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

REACTIONS. (lb/size) A=1760/Mechanical, L=1641/0-3-8 (min. 0-1-15), P=579/0-3-8 (min. 0-1-8)
Max Horz A=301(LC 9)
Max Uplift A=-397(LC 12), L=-392(LC 13), P=-45(LC 9)
Max Grav A=1760(LC 1), L=1641(LC 1), P=649(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-690/111, B-C=-2618/962, C-D=-2265/911, D-E=-2160/952, E-F=-1870/909, F-G=-1620/846, G-H=-1620/846, H-I=-1872/880, I-J=-1978/838, J-K=-2449/920, K-L=-552/79
BOT CHORD A-AD=-686/2149, U-AD=-686/2149, T-U=-686/2149, S-T=-686/2149, S-AE=-551/2032, R-AE=-551/2032, Q-R=-551/2032, P-Q=-551/2032, P-AF=-551/2032, O-AF=-551/2032, N-O=-649/2003, M-N=-649/2003, M-AG=-649/2003, L-AG=-649/2003
WEBS C-S=-541/363, E-S=-165/676, F-S=-369/361, F-Q=-128/279, F-O=-750/383, H-O=-129/512, J-O=-648/371, J-M=0/302

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are 5x8 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) P except (jt=lb) A=397, L=392.
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.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

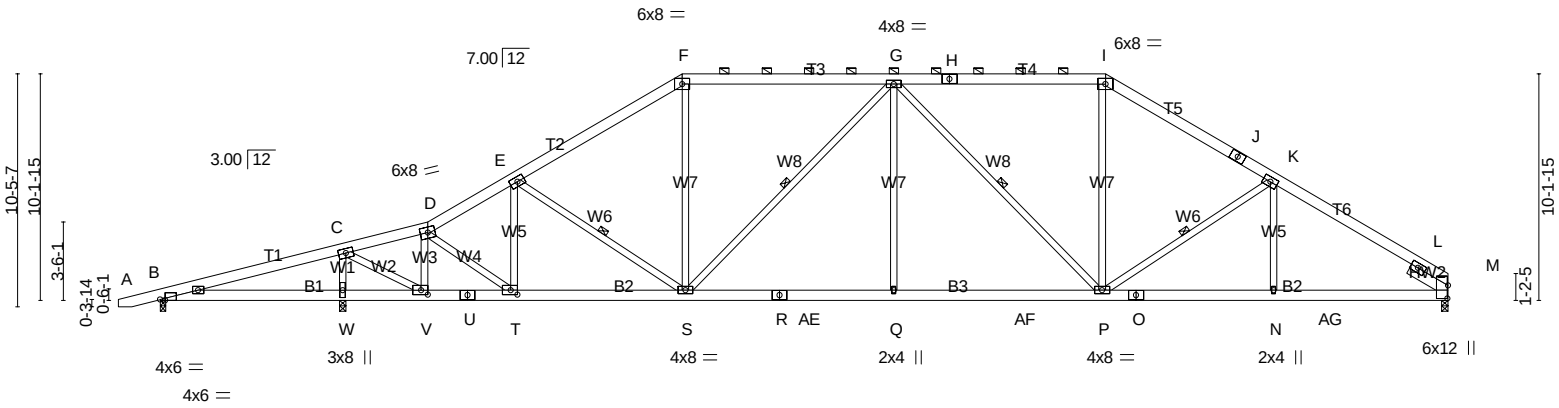
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A10	PIGGYBACK BASE	2	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:50:45 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-v2_VTcvXrYRIJ_OydVtGjoo3mahFyWcTHmoBjvyFhcu

-1-10-8	8-2-4	12-0-1	15-10-9	23-5-1	32-11-0	42-5-0	49-11-8	57-9-8
1-10-8	8-2-4	3-9-13	3-10-8	7-6-8	9-6-0	9-6-0	7-6-8	7-10-0

Scale = 1:103.4



8-2-4	12-0-1	15-10-9	23-5-1	32-11-0	42-5-0	49-11-8	57-9-8
8-2-4	3-9-13	3-10-8	7-6-8	9-6-0	9-6-0	7-6-8	7-10-0

Plate Offsets (X,Y)-- [B:0-2-12,Edge], [M:0-7-0,0-0-5], [T:0-3-8,0-2-8], [V:0-3-8,0-2-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.18	P-Q	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.34	P-Q	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.12	M	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.13	Q	>999	240	Weight: 430 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
W2,W8: 2x4 SP No.2
SLIDER Right 2x6 SP No.2 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (4-5-12 max.): F-I.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt E-S, G-S, G-P, K-P

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

REACTIONS. (lb/size) B=46/0-3-0 (min. 0-1-8), W=2751/0-3-8 (min. 0-3-4), M=1921/0-3-8 (min. 0-2-4)
Max Horz B=342(LC 9)
Max Uplift B=-293(LC 8), W=-645(LC 12), M=-409(LC 13)
Max Grav B=74(LC 23), W=2751(LC 1), M=1921(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-393/1272, C-D=-1317/429, D-E=-2310/837, E-F=-2397/947, F-G=-1992/904, G-H=-2147/956, H-I=-2147/956, I-J=-2477/1007, J-K=-2547/965, K-L=-2894/1017, L-M=-741/118
BOT CHORD B-W=-1177/373, V-W=-1177/373, U-V=-329/1292, T-U=-329/1292, S-T=-574/1993, S-AE=-642/2537, R-AE=-642/2537, Q-R=-642/2537, Q-AF=-642/2537, P-AF=-642/2537, O-P=-731/2380, N-O=-731/2380, N-AG=-731/2380, M-AG=-731/2380
WEBS C-W=-2454/956, C-V=-777/2755, D-V=-1435/531, D-T=-316/890, E-T=-420/248, E-S=-254/254, F-S=-162/767, G-S=-877/375, G-Q=0/537, G-P=-676/360, I-P=-192/831, K-P=-529/363

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are 5x8 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=293, W=645, M=409.
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.

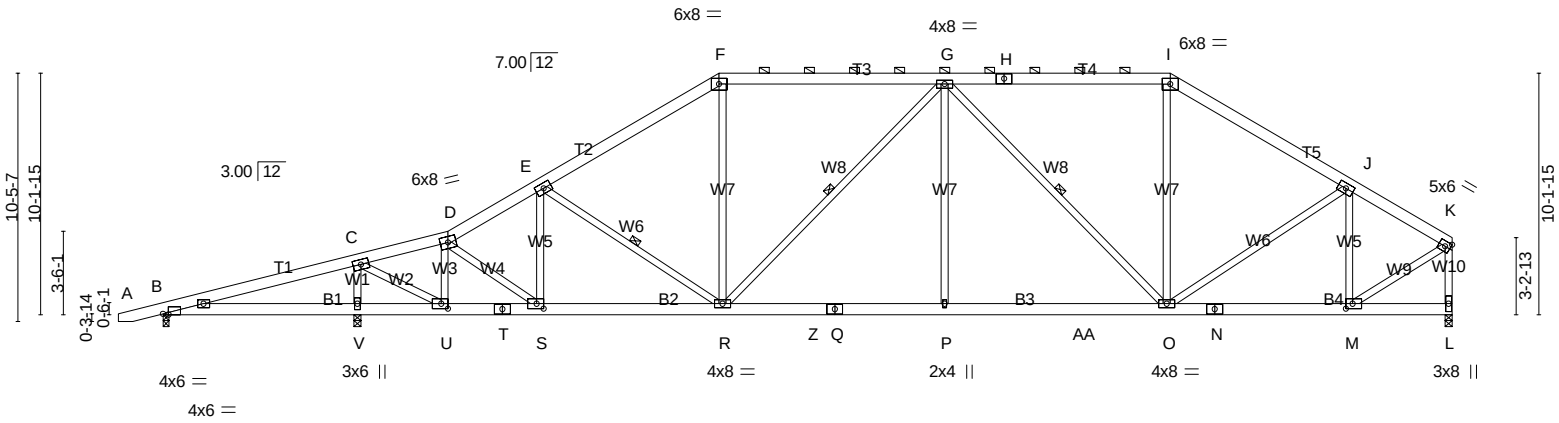
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A11	PIGGYBACK BASE	4	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:50:47 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-rR5FuIwnNAi0YIYKlwvkoDtTWORPQRCml4HInoyFhcs

-1-10-8	8-2-4	12-0-1	15-10-9	23-5-1	32-11-0	42-5-0	49-11-8	54-3-8
1-10-8	8-2-4	3-9-13	3-10-8	7-6-8	9-6-0	9-6-0	7-6-8	4-4-0

Scale = 1:97.0



8-2-4	12-0-1	15-10-9	23-5-1	32-11-0	42-5-0	49-11-8	54-3-8
8-2-4	3-9-13	3-10-8	7-6-8	9-6-0	9-6-0	7-6-8	4-4-0

Plate Offsets (X,Y)-- [B:0-2-12,Edge], [M:0-3-8,0-2-8], [S:0-3-8,0-2-8], [U:0-3-8,0-2-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.13	P-R	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.26	P-R	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.06	L	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.10	P-R	>999	240	Weight: 419 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
W2,W8,W10: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-12 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-7 max.): F-I.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt E-R, G-R, G-O

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

REACTIONS. (lb/size) B=126/0-3-0 (min. 0-1-8), V=2517/0-3-8 (min. 0-3-0), L=1784/0-3-8 (min. 0-2-2)
Max Horz B=334(LC 9)
Max Uplift B=-292(LC 8), V=-631(LC 12), L=-338(LC 13)
Max Grav B=139(LC 23), V=2517(LC 1), L=1784(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-368/968, C-D=-1347/384, D-E=-2193/762, E-F=-2192/858, F-G=-1808/827, G-H=-1649/777, H-I=-1649/777, I-J=-2002/800, J-K=-1583/566, K-L=-1746/612
BOT CHORD B-V=-878/244, U-V=-878/244, T-U=-388/1315, S-T=-388/1315, R-S=-613/1891, R-Z=-619/2202, Q-Z=-619/2202, P-Q=-619/2202, P-AA=-619/2202, O-AA=-619/2202, N-O=-441/1334, M-N=-441/1334
WEBS C-V=-2230/898, C-U=-700/2451, D-U=-1277/491, D-S=-291/733, E-S=-320/233, E-R=-299/254, F-R=-117/662, G-R=-667/346, G-P=0/541, G-O=-869/362, I-O=-88/579, J-O=-243/485, J-M=-780/377, K-M=-527/1591

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are 5x8 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=292, V=631, L=338.
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.

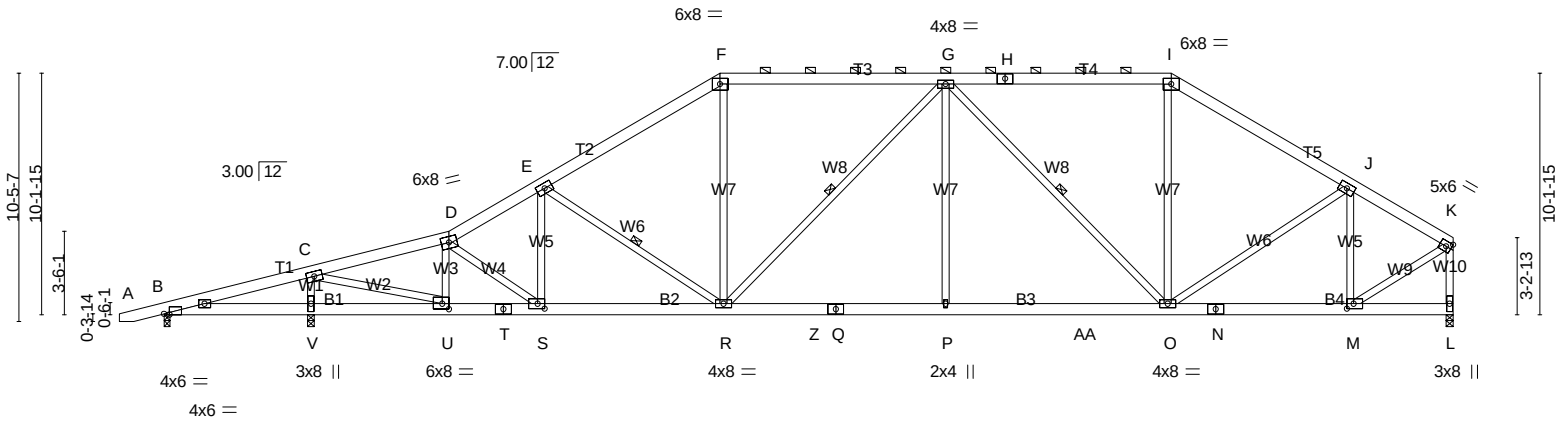
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A12	PIGGYBACK BASE	5	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:50:48 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-Kdfe5exP8TqtAS7WJdRzLQQeEonB9rtvzk1rKEyFhcr

-1-10-8	6-2-4	12-0-1	15-10-9	23-5-1	32-11-0	42-5-0	49-11-8	54-3-8
1-10-8	6-2-4	5-9-13	3-10-8	7-6-8	9-6-0	9-6-0	7-6-8	4-4-0

Scale = 1:97.0



6-2-4	12-0-1	15-10-9	23-5-1	32-11-0	42-5-0	49-11-8	54-3-8
6-2-4	5-9-13	3-10-8	7-6-8	9-6-0	9-6-0	7-6-8	4-4-0

Plate Offsets (X,Y)-- [B:0-2-12,Edge], [M:0-3-8,0-2-8], [S:0-3-8,0-2-8], [U:0-3-8,0-2-12]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.17	P-R	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.33	P-R	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.08	L	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.13	R	>999	240	Weight: 420 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
W2,W8,W10: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-4 oc purlins, except end verticals, and 2-0-0 oc purlins (4-5-13 max.): F-I.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt E-R, G-R, G-O

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

REACTIONS. (lb/size) B=28/0-3-0 (min. 0-1-8), V=2521/0-3-8 (min. 0-3-0), L=1876/0-3-8 (min. 0-2-3)
Max Horz B=334(LC 9)
Max Uplift B=-239(LC 8), V=-648(LC 12), L=-346(LC 13)
Max Grav B=41(LC 23), V=2521(LC 1), L=1876(LC 1)

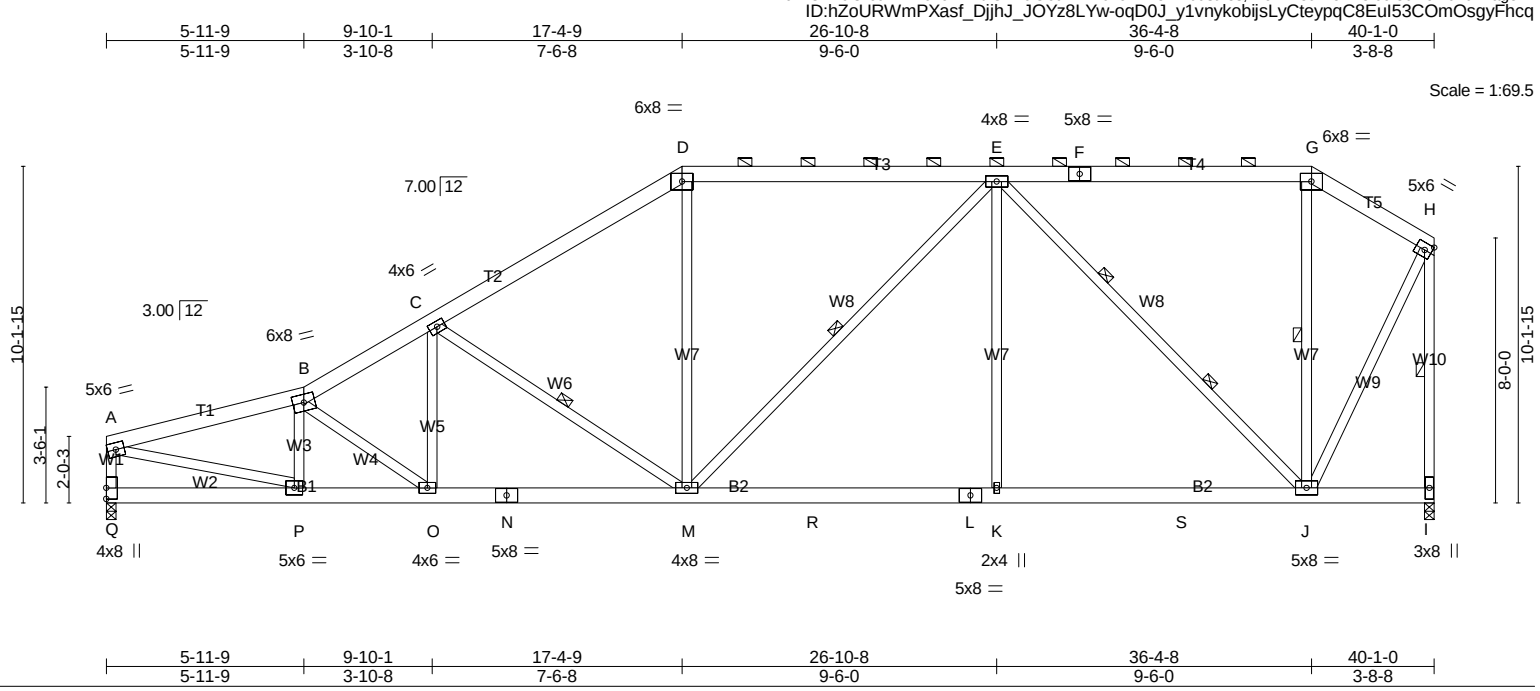
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-413/938, C-D=-2678/868, D-E=-2967/1058, E-F=-2526/985, F-G=-2090/937, G-H=-1758/819, H-I=-1758/819, I-J=-2132/850, J-K=-1668/598, K-L=-1838/647
BOT CHORD B-V=-858/271, U-V=-858/271, T-U=-877/2587, S-T=-877/2587, R-S=-866/2560, R-Z=-696/2396, Q-Z=-696/2396, P-Q=-696/2396, P-AA=-696/2396, O-AA=-696/2396, N-O=-469/1407, M-N=-469/1407
WEBS C-V=-2264/970, C-U=-1170/3529, D-U=-973/429, E-S=0/274, E-R=-690/360, F-R=-180/823, G-R=-569/335, G-P=0/540, G-O=-988/384, I-O=-112/640, J-O=-251/528, J-M=-829/395, K-M=-560/1678

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are 5x8 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=239, V=648, L=346.
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	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A13	Piggyback Base	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:50:49 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-oqD0J_y1vnykobijsLyCteypqC8EuI53COmOsgyFhcq



5-11-9 9-10-1 17-4-9 26-10-8 36-4-8 40-1-0
5-11-9 3-10-8 7-6-8 9-6-0 9-6-0 3-8-8

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.13	K-M	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.24	K-M	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.06	I	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.11	M-O	>999	240	Weight: 338 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
W8,W1,W2,W10: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-3 oc purlins, except end verticals, and 2-0-0 oc purlins (5-1-10 max.): D-G.
BOT CHORD Rigid ceiling directly applied or 6-11-3 oc bracing.
WEBS 1 Row at midpt C-M, E-M, G-J, H-I
2 Rows at 1/3 pts E-J

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

REACTIONS. (lb/size) Q=1592/0-3-8 (min. 0-1-14), I=1592/0-3-8 (min. 0-1-15)
Max Horz Q=332(LC 12)
Max Uplift Q=-370(LC 12), I=-324(LC 9)
Max Grav Q=1592(LC 1), I=1617(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-2676/892, B-C=-2630/923, C-D=-2006/761, D-E=-1636/743, E-F=-597/304, F-G=-597/304, G-H=-719/290, A-Q=-1508/558, H-I=-1621/595
BOT CHORD P-Q=-389/345, O-P=-1137/2581, N-O=-979/2262, M-N=-979/2262, M-R=-578/1595, L-R=-578/1595, K-L=-578/1595, K-S=-578/1595, J-S=-578/1595
WEBS B-P=-632/290, B-O=-405/200, C-O=-61/433, C-M=-853/424, D-M=-68/562, E-M=-192/325, E-K=0/544, E-J=-1447/544, A-P=-789/2513, H-J=-457/1354

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) Q=370, I=324.
7) 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.
8) 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	Marketplace, Lot 155 Mockingbird
2469517	A14	Piggyback Base	3	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:50:50 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-G0nOWKyfg54bPlHvQ2TRQrVzVbSRdm6CR2WyO7yFhcp

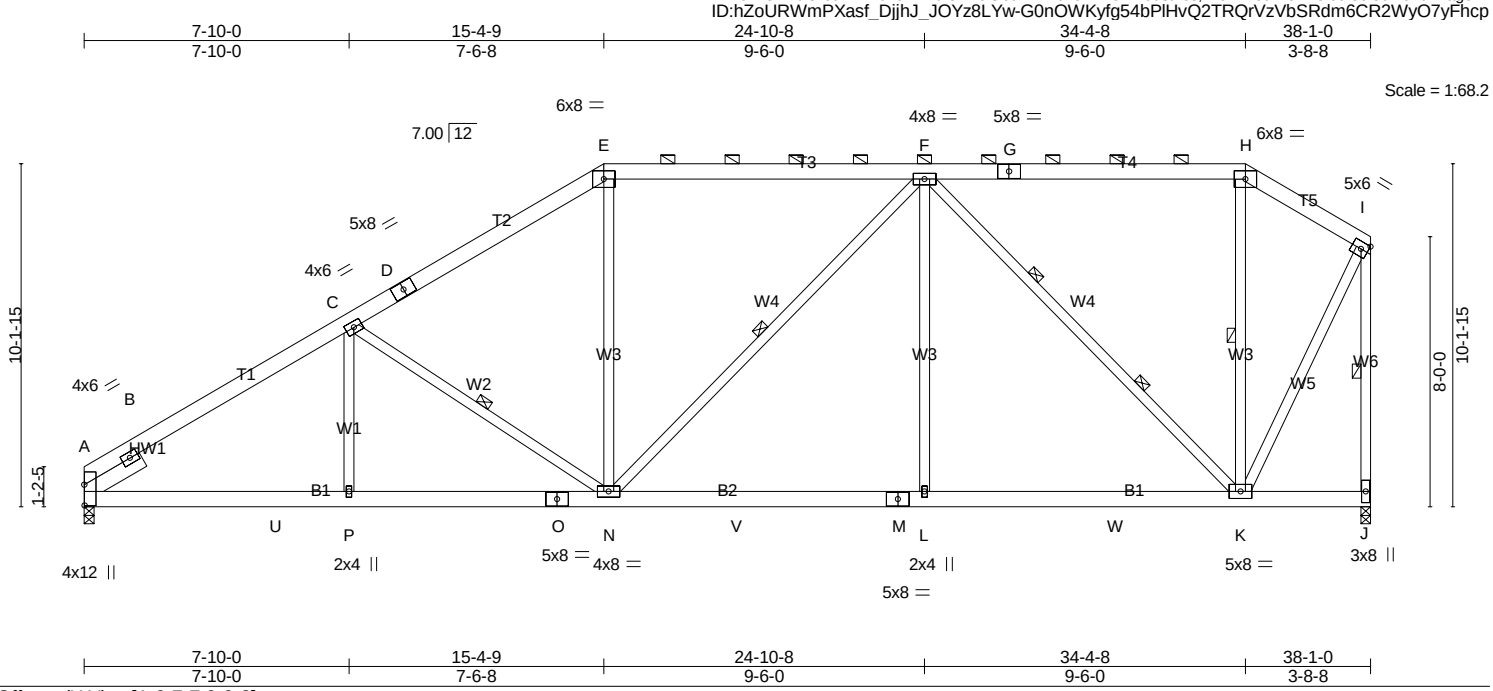


Plate Offsets (X,Y)-- [A:0-7-7,0-0-2]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.11	L-N	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.21	L-N	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.06	J	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.08	N-P	>999	240	Weight: 314 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except* W4,W6: 2x4 SP No.2
SLIDER	Left 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-9-12 oc purlins, except end verticals, and 2-0-0 oc purlins (5-5-7 max.): E-H.
BOT CHORD	Rigid ceiling directly applied or 8-1-9 oc bracing.
WEBS	1 Row at midpt C-N, F-N, H-K, I-J
	2 Rows at 1/3 pts F-K

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

REACTIONS. (lb/size) A=1517/0-3-8 (min. 0-1-13), J=1517/0-3-8 (min. 0-1-13)
Max Horz A=407(LC 12)
Max Uplift A=-333(LC 12), J=-312(LC 9)
Max Grav A=1517(LC 1), J=1559(LC 2)

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

TOP CHORD	A-B=-588/52, B-C=-2214/725, C-D=-1825/649, D-E=-1737/691, E-F=-1503/680, F-G=-575/294, G-H=-575/294, H-I=-685/278, I-J=-1563/568
BOT CHORD	A-U=-825/1836, P-U=-825/1836, O-P=-825/1836, N-O=-825/1836, N-V=-541/1516, M-V=-541/1516, L-M=-541/1516, L-W=-541/1516, K-W=-541/1516
WEBS	C-N=-607/377, E-N=-37/476, F-N=-170/314, F-L=0/543, F-K=-1364/506, I-K=-434/1304

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=333, J=312.
7) 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.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

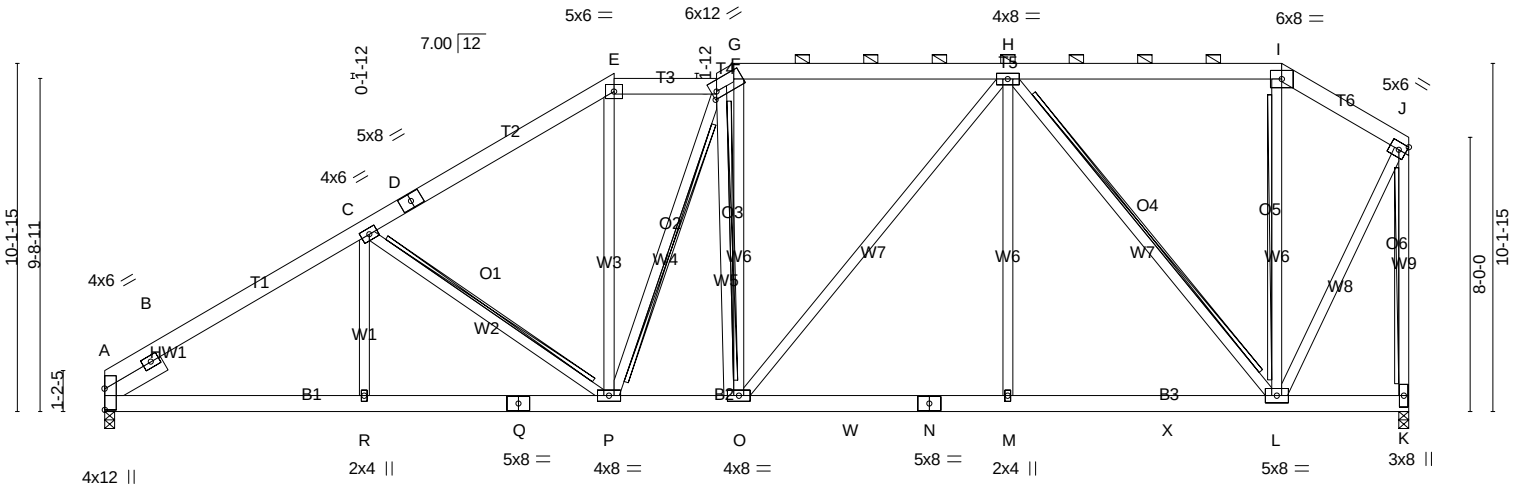
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A15	Piggyback Base	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:50:51 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-kCLmkfzIROCR1vs5_I_gy329L?pJMESMgiFVwZyFhco

7-7-0	14-10-8	17-10-7	18-4-8	26-4-8	34-4-8	38-1-0
7-7-0	7-3-8	2-11-15	0-6-1	8-0-0	8-0-0	3-8-8

Scale = 1:67.3



7-7-0	14-10-8	18-4-8	26-4-8	34-4-8	38-1-0
7-7-0	7-3-8	3-6-0	8-0-0	8-0-0	3-8-8

Plate Offsets (X,Y)-- [A:0-7-7,0-0-2], [F:0-1-13,0-2-6]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.09	M-O	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.18	P-R	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.05	K	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.08	P-R	>999	240	Weight: 351 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
W9: 2x4 SP No.2
SLIDER Left 2x6 SP No.2 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-8-5 max.): E-F, G-I.
BOT CHORD Rigid ceiling directly applied or 8-1-7 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - C-P, F-P, F-O, I-L, J-K
2x6 SPF No.2 - H-L
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

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

REACTIONS. (lb/size) A=1517/0-3-8 (min. 0-1-13), K=1517/0-3-8 (min. 0-1-13)
Max Horz A=398(LC 12)
Max Uplift A=-328(LC 12), K=-300(LC 9)
Max Grav A=1517(LC 1), K=1522(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-547/69, B-C=-2215/723, C-D=-1845/667, D-E=-1736/705, E-F=-1501/687, F-G=-1443/634, G-H=-1506/690, H-I=-551/293, I-J=-663/281, J-K=-1510/573
BOT CHORD A-R=-827/1810, Q-R=-827/1810, P-Q=-827/1810, O-P=-598/1526, O-W=-498/1354, N-W=-498/1354, M-N=-498/1354, M-X=-498/1354, L-X=-498/1354
WEBS C-P=-549/347, E-P=-94/459, F-P=-290/268, F-O=-381/189, G-O=-6/253, H-O=-167/366, H-M=0/460, H-L=-1284/491, J-L=-430/1249

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=328, K=300.
7) 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.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A16	Piggyback Base	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:50:52 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-CPv8x?_wCiKIf3RIYTVvVGaKmP8A5gJVuM?2T?yFhcn

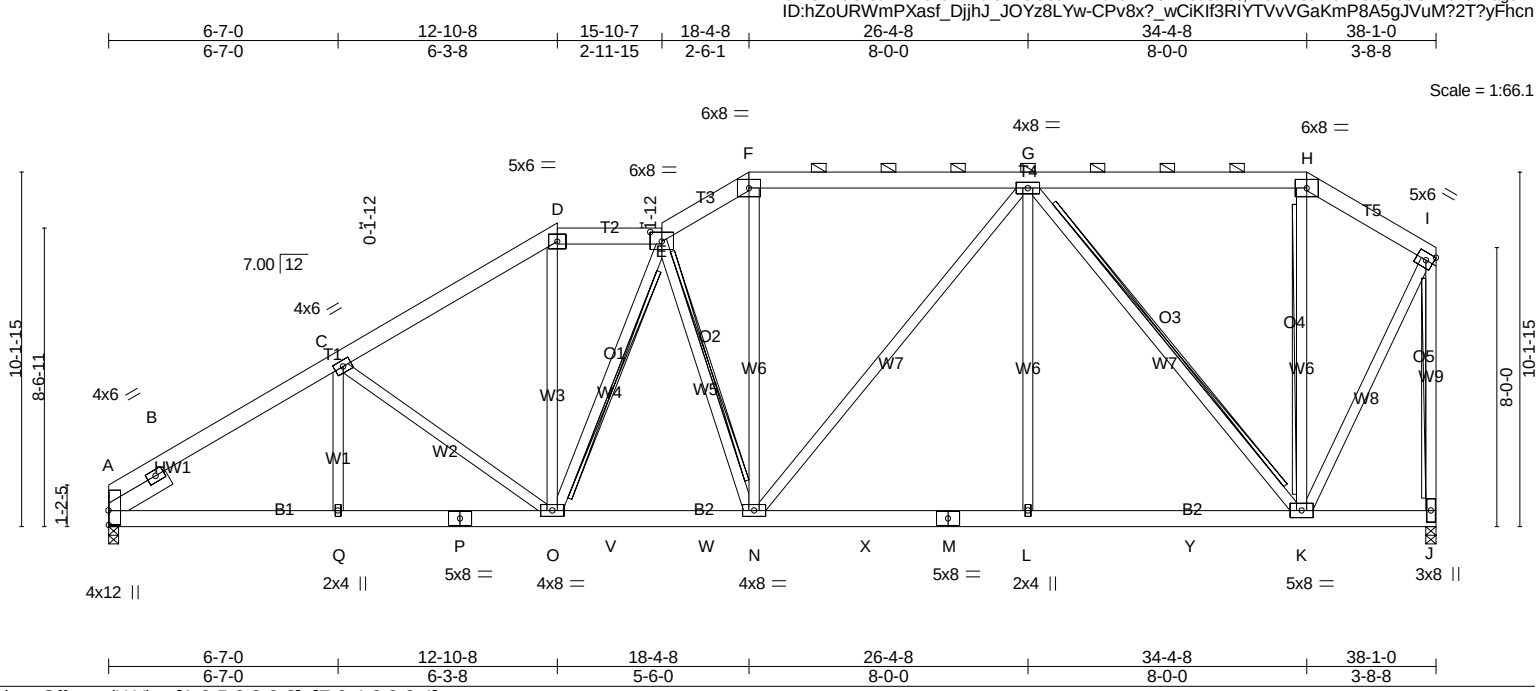


Plate Offsets (X,Y)-- [A:0-5-0,0-0-2], [E:0-4-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.09	L-N	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.18	L-N	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.06	J	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.09	O-Q	>999	240	Weight: 343 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
W9: 2x4 SP No.2
SLIDER Left 2x6 SP No.2 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-12 oc purlins, except end verticals, and 2-0-0 oc purlins (5-7-8 max.): D-E, F-H.
BOT CHORD Rigid ceiling directly applied or 8-0-12 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - E-O, E-N, H-K, I-J
2x6 SPF No.2 - G-K
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

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

REACTIONS. (lb/size) A=1517/0-3-8 (min. 0-1-13), J=1517/0-3-8 (min. 0-1-13)
Max Horz A=407(LC 12)
Max Uplift A=-370(LC 12), J=-282(LC 9)
Max Grav A=1517(LC 1), J=1555(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-571/118, B-C=-2205/720, C-D=-1930/721, D-E=-1619/691, E-F=-1806/741, F-G=-1551/685, G-H=-564/293, H-I=-678/280, I-J=-1544/572
BOT CHORD A-Q=-837/1804, P-Q=-837/1804, O-P=-837/1804, O-V=-693/1744, V-W=-693/1744, N-W=-693/1744, N-X=-498/1394, M-X=-498/1394, L-M=-498/1394, L-Y=-498/1394, K-Y=-498/1394
WEBS C-O=-396/271, D-O=-139/606, E-O=-384/218, E-N=-741/389, F-N=-165/640, G-N=-209/362, G-L=0/451, G-K=-1327/492, I-K=-429/1277

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=370, J=282.
7) 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.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

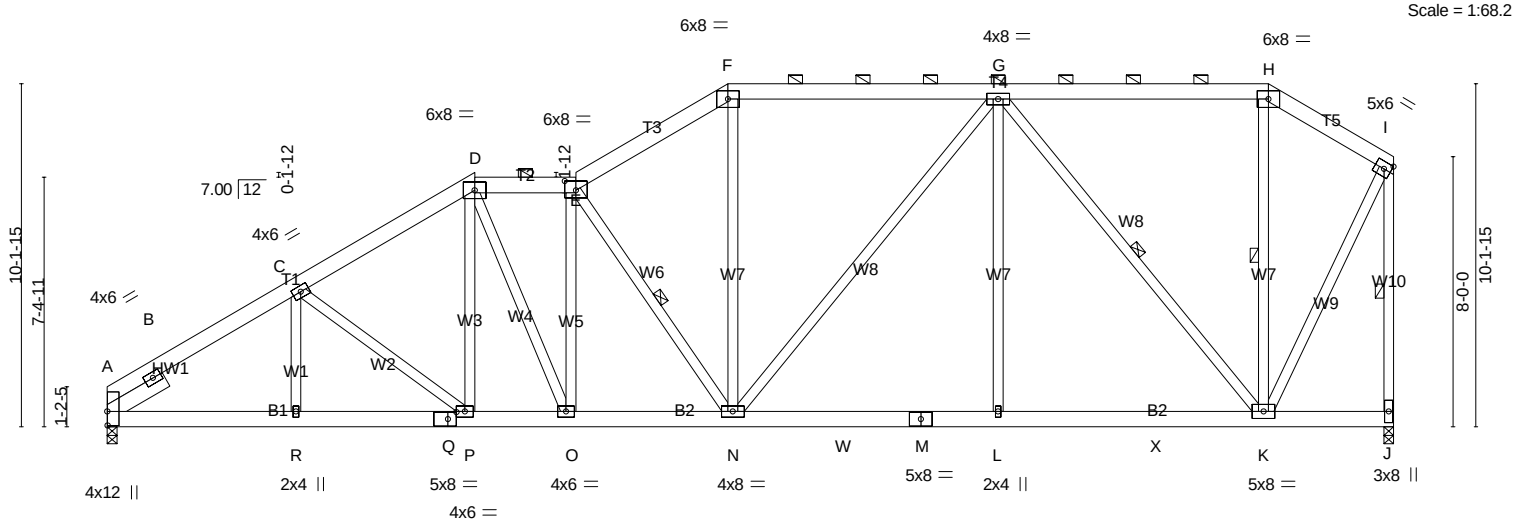
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A17	Piggyback Base	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:50:53 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-gbTX9L?Yz0S9GD0U5A082U7WGpUpq4Be70kc?SyFhcm

5-7-0	10-10-8	13-10-7	18-4-8	26-4-8	34-4-8	38-1-0
5-7-0	5-3-8	2-11-15	4-6-1	8-0-0	8-0-0	3-8-8

Scale = 1:68.2



5-7-0	10-10-8	13-10-7	18-4-8	26-4-8	34-4-8	38-1-0
5-7-0	5-3-8	2-11-15	4-6-1	8-0-0	8-0-0	3-8-8

Plate Offsets (X,Y)-- [A:0-5-0,0-0-2], [E:0-4-0,0-3-4], [Q:0-3-0,0-2-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.09	L-N	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.18	L-N	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.06	J	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.09	O	>999	240	Weight: 347 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except*
	W10: 2x4 SP No.2
SLIDER	Left 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-1-10 oc purlins, except end verticals, and 2-0-0 oc purlins (5-3-8 max.): D-E, F-H.
BOT CHORD	Rigid ceiling directly applied or 8-0-8 oc bracing.
WEBS	1 Row at midpt E-N, G-K, H-K, I-J

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

REACTIONS. (lb/size) A=1517/0-3-8 (min. 0-1-13), J=1517/0-3-8 (min. 0-1-13)
Max Horz A=407(LC 12)
Max Uplift A=-370(LC 12), J=-282(LC 9)
Max Grav A=1517(LC 1), J=1522(LC 2)

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

TOP CHORD	A-B=-589/158, B-C=-2178/710, C-D=-2029/737, D-E=-1900/751, E-F=-1787/724, F-G=-1502/684, G-H=-551/292, H-I=-663/280, I-J=-1511/572
BOT CHORD	A-R=-841/1780, Q-R=-841/1780, P-Q=-841/1780, O-P=-729/1717, N-O=-785/1909, N-W=-497/1355, M-W=-497/1355, L-M=-497/1355, L-X=-497/1355, K-X=-497/1355
WEBS	D-P=-82/289, D-O=-145/502, E-O=-469/177, E-N=-782/385, F-N=-130/578, G-N=-211/370, G-L=0/456, G-K=-1285/490, I-K=-428/1248

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=370, J=282.
7) 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.
8) 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	Marketplace, Lot 155 Mockingbird
2469517	A18	Piggyback Base	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:50:54 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-8n0vMh0AkJa0uNbgfuXNahge1DqjZaloMgU9XuyFhcl

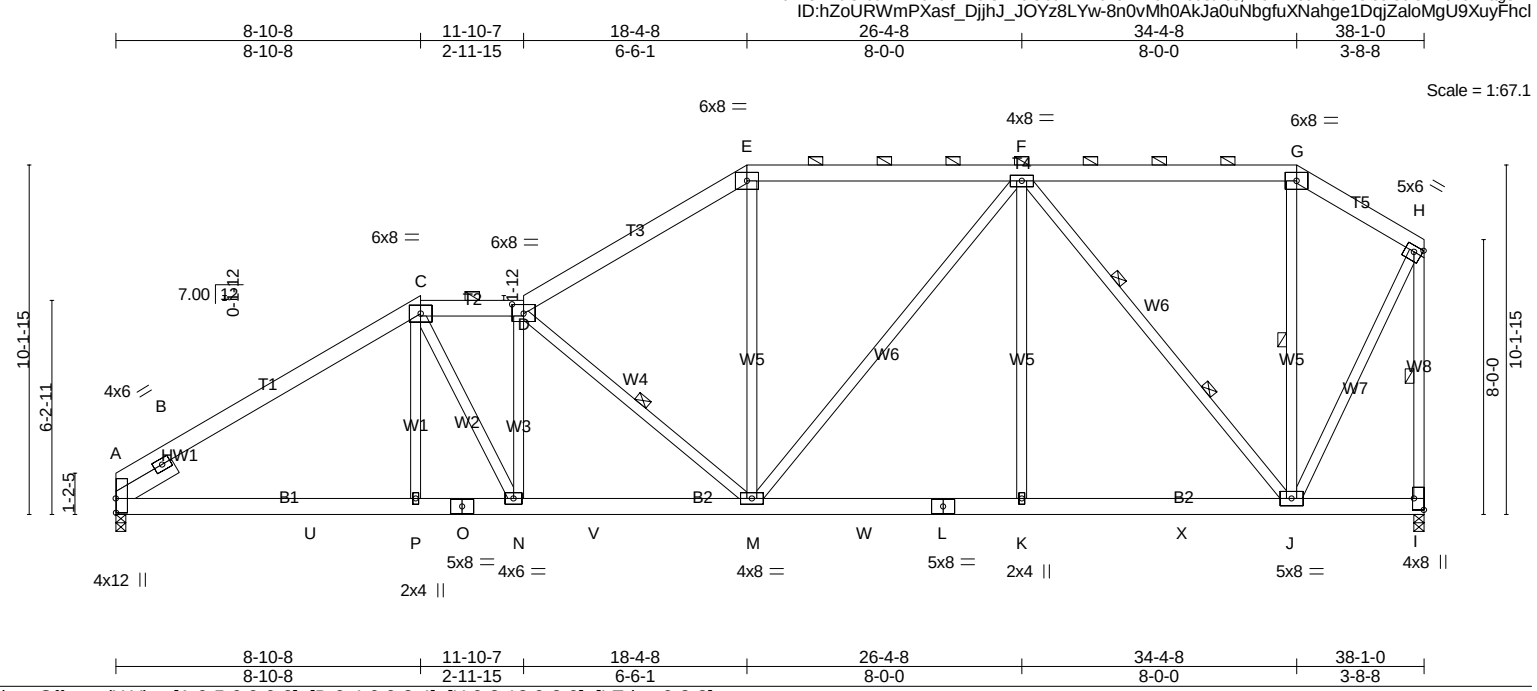


Plate Offsets (X,Y)-- [A:0-5-0,0-0-2], [D:0-4-0,0-3-4], [H:0-2-12,0-2-0], [I:Edge,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.10	K-M	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.19	M-N	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.06	I	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.08	M-N	>999	240	Weight: 328 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except*
	W8: 2x4 SP No.2
SLIDER	Left 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-5-10 oc purlins, except end verticals, and 2-0-0 oc purlins (4-11-14 max.): C-D, E-G.
BOT CHORD	Rigid ceiling directly applied or 7-4-3 oc bracing.
WEBS	1 Row at midpt D-M, G-J, H-I
	2 Rows at 1/3 pts F-J

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

REACTIONS. (lb/size) A=1517/0-3-8 (min. 0-1-13), I=1517/0-3-8 (min. 0-1-13)
Max Horz A=447(LC 11)
Max Uplift A=-389(LC 12), I=-298(LC 9)
Max Grav A=1531(LC 2), I=1562(LC 2)

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

TOP CHORD	A-B=-608/2, B-C=-2253/774, C-D=-2203/857, D-E=-1892/770, E-F=-1566/744, F-G=-617/403, G-H=-688/425, H-I=-1551/578
BOT CHORD	A-U=-937/1875, P-U=-937/1875, O-P=-938/1872, N-O=-938/1872, N-V=-1020/2218, M-V=-1020/2218, M-W=-616/1401, L-W=-616/1401, K-L=-616/1401, K-X=-616/1401, J-X=-616/1401
WEBS	C-N=-231/812, D-N=-603/274, D-M=-913/419, E-M=-112/579, F-M=-193/413, F-K=0/451, F-J=-1334/511, H-J=-483/1283

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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 = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=389, I=298.
7) 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.
8) 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	Marketplace, Lot 155 Mockingbird
2469517	A19	Piggyback Base	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:50:55 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-czaHa10oVditWW9tDb3c7vCpxcANI_TxaKDj4KyFhck

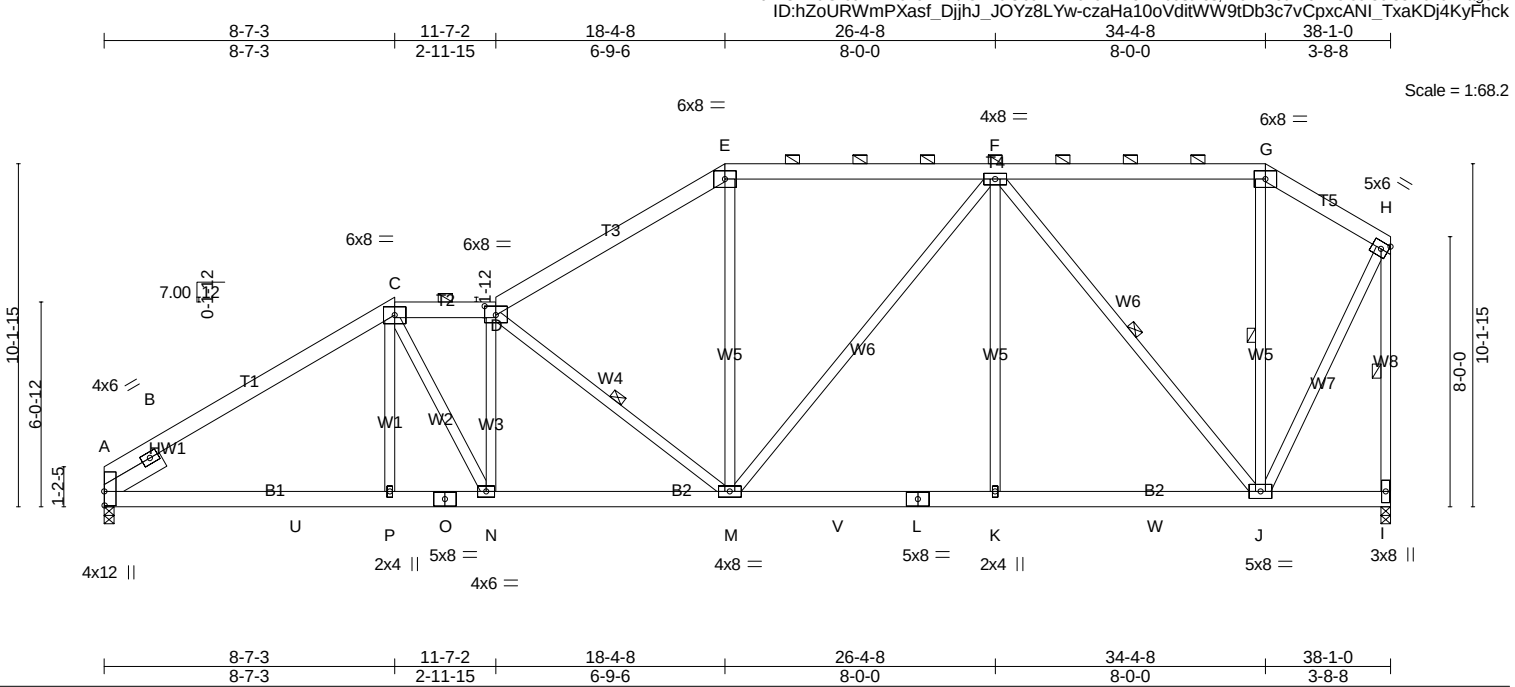


Plate Offsets (X,Y)-- [A:0-5-0,0-0-2], [D:0-4-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.10	K-M	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.19	K-M	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.06	I	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.09	M-N	>999	240	Weight: 328 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
W8: 2x4 SP No.2
SLIDER Left 2x6 SP No.2 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-10 oc purlins, except end verticals, and 2-0-0 oc purlins (5-0-1 max.): C-D, E-G.
BOT CHORD Rigid ceiling directly applied or 7-9-10 oc bracing.
WEBS 1 Row at midpt D-M, F-J, G-J, H-I

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

REACTIONS. (lb/size) A=1517/0-3-8 (min. 0-1-13), I=1517/0-3-8 (min. 0-1-13)
Max Horz A=407(LC 12)
Max Uplift A=-370(LC 12), I=-282(LC 9)
Max Grav A=1517(LC 1), I=1538(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-602/0, B-C=-2200/721, C-D=-2164/801, D-E=-1846/698, E-F=-1517/685, F-G=-557/292, G-H=-670/280, H-I=-1527/571
BOT CHORD A-U=-801/1790, P-U=-801/1790, O-P=-802/1789, N-O=-802/1789, M-N=-904/2181, M-V=-495/1372, L-V=-495/1372, K-L=-495/1372, K-W=-495/1372, J-W=-495/1372
WEBS C-N=-211/831, D-N=-631/259, D-M=-901/423, E-M=-68/543, F-M=-219/391, F-K=0/454, F-J=-1303/488, H-J=-428/1262

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=370, I=282.
7) 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.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

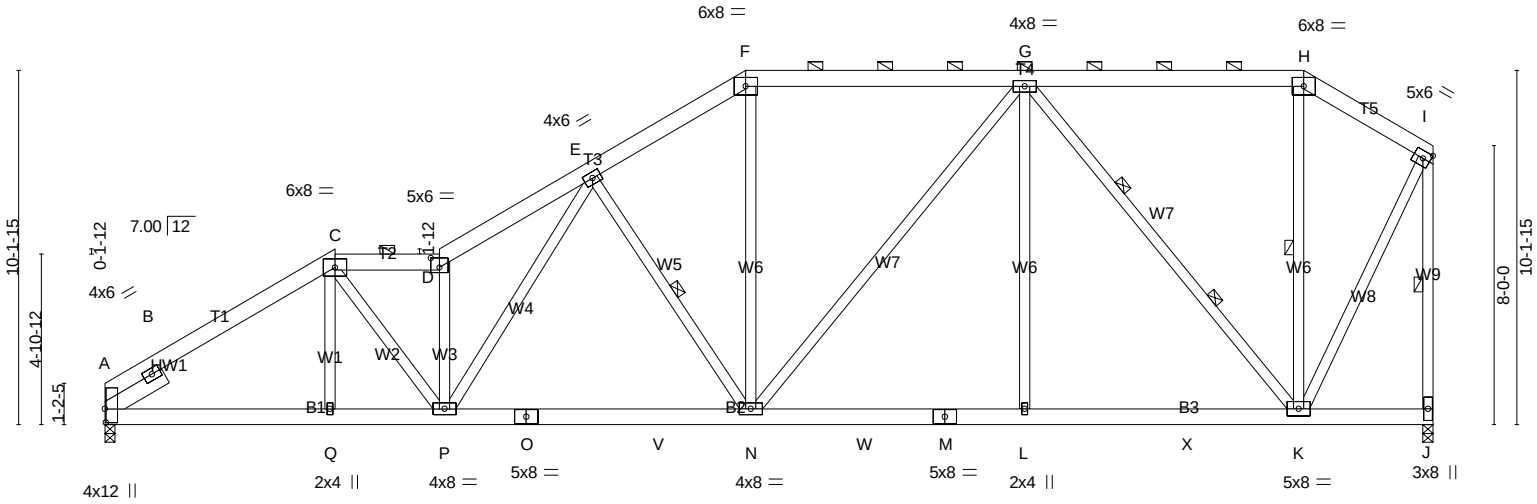
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A20	Piggyback Base	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:50:56 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-5A8fnN1QGxqk7gk3nJarf6l0F0UT1TF5p_zGcmyFhcj

6-7-3	9-7-2	13-11-13	18-4-8	26-4-8	34-4-8	38-1-0
6-7-3	2-11-15	4-4-11	4-4-11	8-0-0	8-0-0	3-8-8

Scale = 1:66.1



6-7-3	9-7-2	18-4-8	26-4-8	34-4-8	38-1-0
6-7-3	2-11-15	8-9-6	8-0-0	8-0-0	3-8-8

Plate Offsets (X,Y)-- [A:0-4-12,0-0-6], [D:0-3-0,0-3-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.14	N-P	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.28	N-P	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.06	J	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.12	N-P	>999	240	Weight: 334 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except*
	W9: 2x4 SP No.2
SLIDER	Left 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-10-9 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-10 max.): C-D, F-H.
BOT CHORD	Rigid ceiling directly applied or 8-0-2 oc bracing.
WEBS	1 Row at midpt E-N, H-K, I-J
	2 Rows at 1/3 pts G-K

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

REACTIONS. (lb/size) A=1517/0-3-8 (min. 0-1-13), J=1517/0-3-8 (min. 0-1-14)
Max Horz A=407(LC 12)
Max Uplift A=-370(LC 12), J=-282(LC 9)
Max Grav A=1517(LC 1), J=1564(LC 2)

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

TOP CHORD	A-B=-589/67, B-C=-2206/723, C-D=-2509/844, D-E=-2891/1036, E-F=-1876/727, F-G=-1576/678, G-H=-568/292, H-I=-682/279, I-J=-1555/570
BOT CHORD	A-Q=-836/1813, P-Q=-837/1814, O-P=-788/1937, O-V=-788/1937, N-V=-788/1937, N-W=-496/1402, M-W=-496/1402, L-M=-496/1402, L-X=-496/1402, K-X=-496/1402
WEBS	C-P=-279/1222, D-P=-1614/635, E-P=-368/1013, E-N=-789/422, F-N=-144/645, G-N=-204/411, G-L=0/429, G-K=-1333/490, I-K=-427/1287

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=370, J=282.
7) 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.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

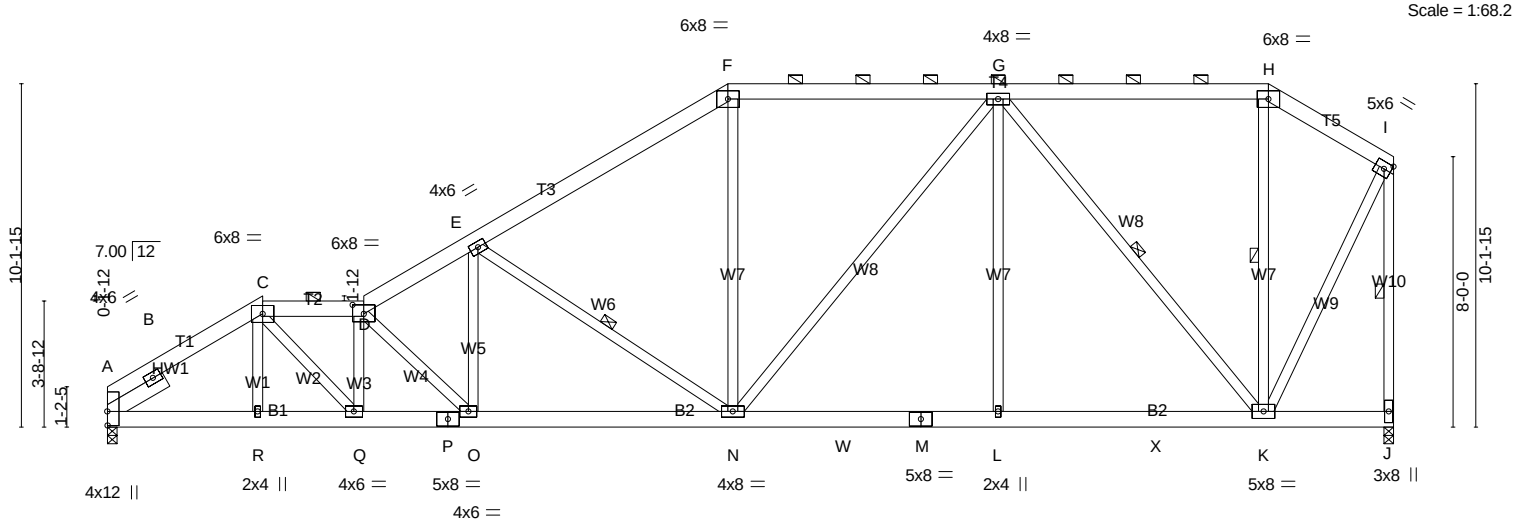
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A21	Piggyback Base	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:50:57 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-ZMi1_j220EyblqJFK054CKICXQrhmtCE2eip8DyFhci

4-7-3	7-7-2	10-10-0	18-4-8	26-4-8	34-4-8	38-1-0
4-7-3	2-11-15	3-2-14	7-6-8	8-0-0	8-0-0	3-8-8

Scale = 1:68.2



4-7-3	7-7-2	10-10-0	18-4-8	26-4-8	34-4-8	38-1-0
4-7-3	2-11-15	3-2-14	7-6-8	8-0-0	8-0-0	3-8-8

Plate Offsets (X,Y)-- [A:0-5-0,0-0-2], [D:0-4-0,0-3-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.10	N-O	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.22	N-O	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.06	J	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.12	N-O	>999	240	Weight: 332 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except* W10: 2x4 SP No.2
SLIDER	Left 2x6 SP No.2 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-2-7 oc purlins, except end verticals, and 2-0-0 oc purlins (4-3-11 max.): C-D, F-H.
BOT CHORD	Rigid ceiling directly applied or 6-11-6 oc bracing.
WEBS	1 Row at midpt E-N, G-K, H-K, I-J

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

REACTIONS. (lb/size) A=1517/0-3-8 (min. 0-1-13), J=1517/0-3-8 (min. 0-1-13)
Max Horz A=407(LC 12)
Max Uplift A=-370(LC 12), J=-282(LC 9)
Max Grav A=1517(LC 1), J=1522(LC 2)

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

TOP CHORD	A-B=-615/177, B-C=-2158/699, C-D=-2713/909, D-E=-2665/892, E-F=-1862/694, F-G=-1508/682, G-H=-551/292, H-I=-663/279, I-J=-1511/570
BOT CHORD	A-R=-847/1779, Q-R=-851/1784, P-Q=-1134/2757, O-P=-1134/2757, N-O=-953/2280, N-W=-494/1353, M-W=-494/1353, L-M=-494/1353, L-X=-494/1353, K-X=-494/1353
WEBS	C-Q=-412/1424, D-Q=-988/323, D-O=-682/258, E-O=-104/615, E-N=-1008/471, F-N=-61/519, G-N=-218/404, G-L=0/452, G-K=-1282/487, I-K=-427/1249

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=370, J=282.
7) 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.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

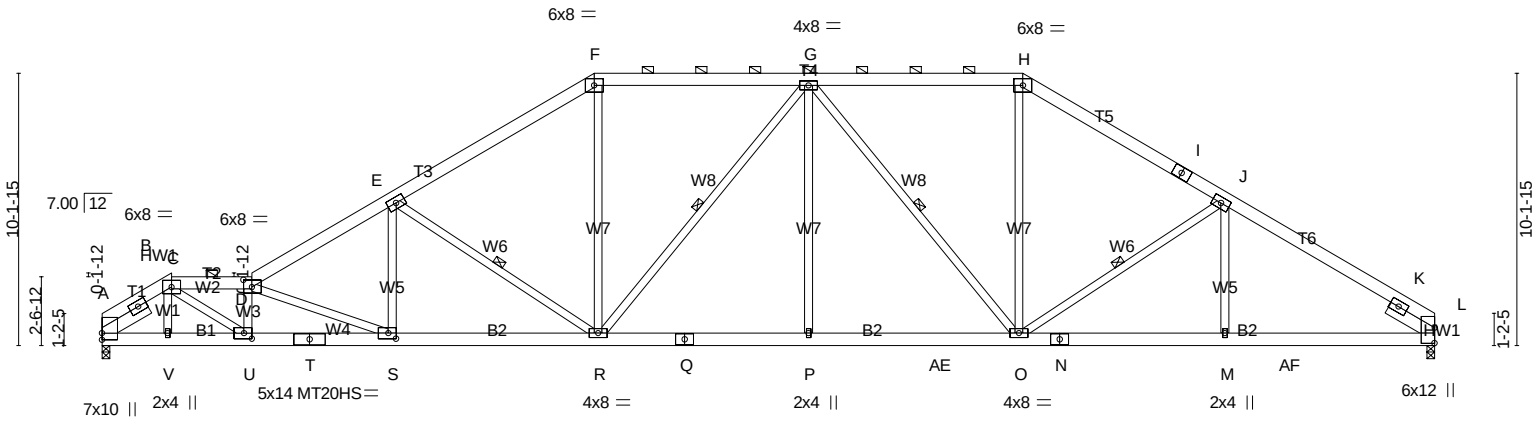
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	A22	Piggyback Base	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:50:58 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-1YGQC33hnY4SN_uRujcJlXqHKqBoVMUOHISNgfyFhch

2-7-3	5-7-2	10-10-0	18-4-8	26-4-8	34-4-8	41-11-0	49-9-0
2-7-3	2-11-15	5-2-14	7-6-8	8-0-0	8-0-0	7-6-8	7-10-0

Scale = 1:86.0



2-7-3	5-7-2	10-10-0	18-4-8	26-4-8	34-4-8	41-11-0	49-9-0
2-7-3	2-11-15	5-2-14	7-6-8	8-0-0	8-0-0	7-6-8	7-10-0

Plate Offsets (X,Y)-- [D:0-3-12,0-3-4], [L:0-7-0,0-0-1], [S:0-3-8,0-2-8], [U:0-3-8,0-2-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.20	P-R	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.40	P-R	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.15	L	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.19	R-S	>999	240	Weight: 390 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
W2: 2x4 SP No.2
SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (3-3-15 max.): C-D, F-H.
BOT CHORD Rigid ceiling directly applied or 6-5-8 oc bracing.
WEBS 1 Row at midpt E-R, G-R, G-O, J-O

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

REACTIONS. (lb/size) A=1990/0-3-8 (min. 0-2-6), L=1990/0-3-8 (min. 0-2-6)
Max Horz A=301(LC 9)
Max UpliftA=-456(LC 12), L=-411(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-805/292, B-C=-2672/931, C-D=-4396/1524, D-E=-3828/1352, E-F=-2900/1126, F-G=-2411/1058, G-H=-2224/993, H-I=-2567/1050, I-J=-2672/1009, J-K=-3010/1055, K-L=-817/143
BOT CHORD A-V=-717/2183, U-V=-725/2198, T-U=-1495/4507, S-T=-1495/4507, R-S=-1020/3259, Q-R=-688/2619, P-Q=-688/2619, P-AE=-688/2619, O-AE=-688/2619, N-O=-764/2481, M-N=-764/2481, M-AF=-764/2481, L-AF=-764/2481
WEBS C-U=-911/2749, D-U=-1625/618, D-S=-1348/513, E-S=-121/678, E-R=-1120/497, F-R=-279/1027, G-R=-518/331, G-P=0/438, G-O=-736/351, H-O=-238/903, J-O=-516/360

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) All plates are 5x8 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=456, L=411.
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.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

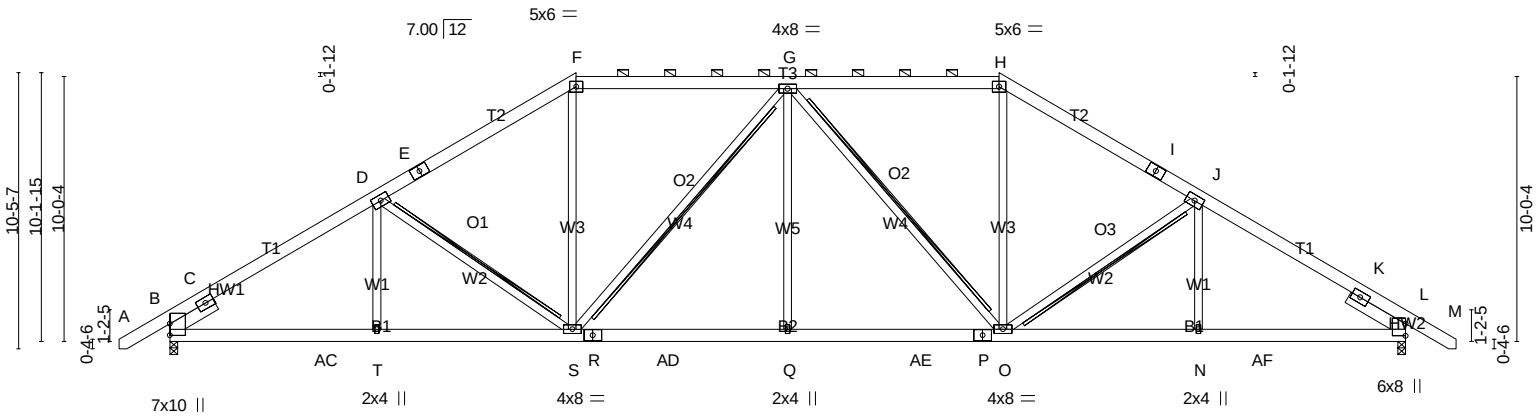
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	B01	HIP	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:00 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-zxOAdk4xJ9KAcI2q08enqywdtdpzzLjgkbxUlYyFhcf

1-11-0	7-10-0	15-4-8	23-4-8	31-4-8	38-11-0	46-9-0	48-8-0
1-11-0	7-10-0	7-6-8	8-0-0	8-0-0	7-6-8	7-10-0	1-11-0

Scale = 1:87.2



7-10-0	15-4-8	23-4-8	31-4-8	38-11-0	46-9-0
7-10-0	7-6-8	8-0-0	8-0-0	7-6-8	7-10-0

LOADING (psf)		**SPACING-** 2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL 1.15	TC	0.84	Vert(LL)	-0.16	Q-S	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC	0.95	Vert(CT)	-0.32	Q-S	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB	0.55	Horz(CT)	0.13	L	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.12	Q	>999	240	Weight: 368 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
W4: 2x4 SP No.2
SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 2-5-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (4-10-1 max.): F-H.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - D-S, G-S, G-O, J-O
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

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

REACTIONS. (lb/size) B=1976/0-3-8 (min. 0-2-5), L=1976/0-3-8 (min. 0-2-5)
Max Horz B=331(LC 11)
Max UpliftB=-457(LC 12), L=-457(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-632/68, C-D=-2784/975, D-E=-2460/935, E-F=-2383/975, F-G=-2059/924, G-H=-2058/923, H-I=-2383/974, I-J=-2451/935, J-K=-2777/977, K-L=-616/80
BOT CHORD B-AC=-643/2311, T-AC=-643/2311, S-T=-643/2311, R-S=-555/2405, R-AD=-555/2405, Q-AD=-555/2405, Q-AE=-555/2405, P-AE=-555/2405, O-P=-555/2405, N-O=-652/2288, N-AF=-652/2288, L-AF=-652/2288
WEBS D-S=-502/346, F-S=-195/800, G-S=-643/340, G-Q=0/456, G-O=-644/339, H-O=-195/799, J-O=-504/348

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are 5x8 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=457, L=457.
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.
10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

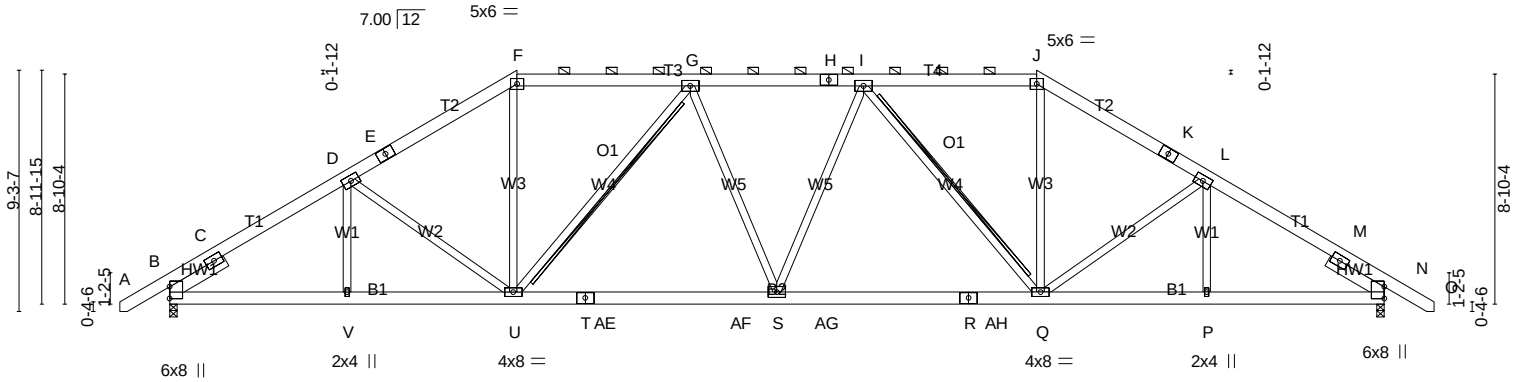
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	B02	HIP	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:01 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-R7xYq45Z4TS1ERd0Zs90MASr918xiosqzFg1H_yFhce

1-11-0	6-10-0	13-4-8	20-0-8	26-8-8	33-4-8	39-11-0	46-9-0	48-8-0
1-11-0	6-10-0	6-6-8	6-8-0	6-8-0	6-8-0	6-6-8	6-10-0	1-11-0

Scale = 1:88.7



6-10-0	13-4-8	23-4-8	33-4-8	39-11-0	46-9-0
6-10-0	6-6-8	10-0-0	10-0-0	6-6-8	6-10-0

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.19	Q-S	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.37	S-U	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.13	N	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.14	S	>999	240	Weight: 366 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 2-5-12, Right 2x6 SP No.2 2-5-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-1-2 oc purlins, except 2-0-0 oc purlins (4-4-14 max.): F-J.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - G-U, I-Q Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

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

REACTIONS. (lb/size) B=1976/0-3-8 (min. 0-2-5), N=1976/0-3-8 (min. 0-2-5)
Max Horz B=-292(LC 10)
Max UpliftB=-431(LC 12), N=-431(LC 13)

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

TOP CHORD	B-C=-625/125, C-D=-2755/983, D-E=-2541/969, E-F=-2474/999, F-G=-2137/935, G-H=-2659/1085, H-I=-2659/1085, I-J=-2137/935, J-K=-2474/999, K-L=-2541/969, L-M=-2755/983, M-N=-625/126
BOT CHORD	B-V=-659/2266, U-V=-659/2266, T-U=-690/2578, T-AE=-690/2578, AE-AF=-690/2578, S-AF=-690/2578, S-AG=-691/2578, AG-AH=-691/2578, R-AH=-691/2578, Q-R=-691/2578, P-Q=-668/2266, N-P=-668/2266
WEBS	D-U=-349/291, F-U=-242/879, G-U=-793/403, G-S=-22/291, I-S=-22/291, I-Q=-793/403, J-Q=-242/879, L-Q=-349/292

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are 5x8 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=431, N=431.
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.
10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

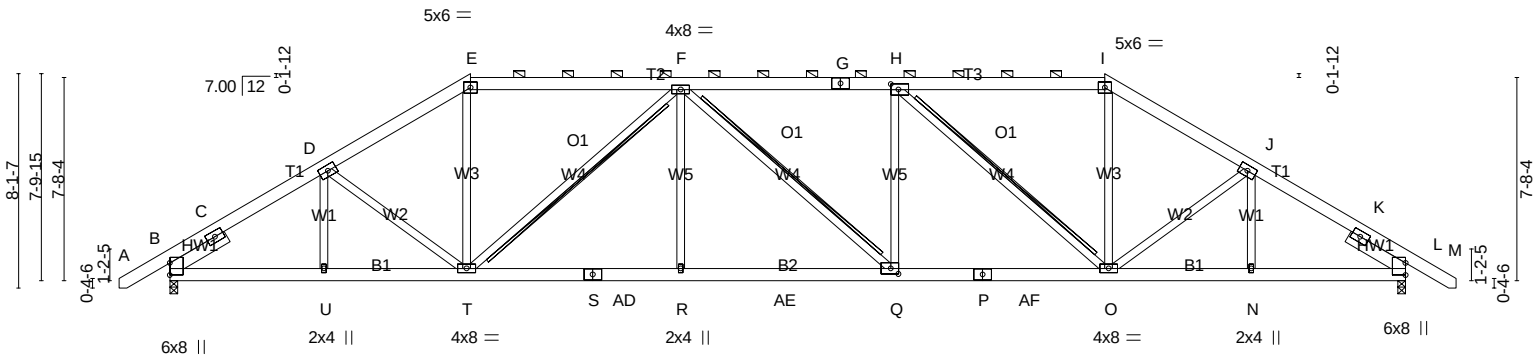
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	B03	HIP	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:02 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-vKVw2Q6BrnausbCD7ZhFvN?1wRVxRB3zBvQapQyFhcd

1-11-0	5-10-0	11-4-8	19-3-15	27-5-1	35-4-8	40-11-0	46-9-0	48-8-0
1-11-0	5-10-0	5-6-8	7-11-7	8-1-3	7-11-7	5-6-8	5-10-0	1-11-0

Scale = 1:87.2



5-10-0	11-4-8	19-3-15	27-5-1	35-4-8	40-11-0	46-9-0
5-10-0	5-6-8	7-11-7	8-1-3	7-11-7	5-6-8	5-10-0

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

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.18	Q-R	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.37	Q-R	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.13	L	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.19	Q-R	>999	240	Weight: 366 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 2-5-12, Right 2x6 SP No.2 2-5-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-2 oc purlins, except 2-0-0 oc purlins (4-0-10 max.): E-I.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - F-T, F-Q, H-O
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

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

REACTIONS. (lb/size) B=1976/0-3-8 (min. 0-2-5), L=1976/0-3-8 (min. 0-2-5)
Max Horz B=-254(LC 10)
Max UpliftB=-402(LC 12), L=-402(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-620/165, C-D=-2719/980, D-E=-2627/1025, E-F=-2232/952, F-G=-3015/1229, G-H=-3015/1229, H-I=-2231/952, I-J=-2627/1025, J-K=-2719/980, K-L=-621/165
BOT CHORD B-U=-664/2231, T-U=-664/2231, T-AD=-865/3045, S-AD=-865/3045, R-S=-865/3045, R-AE=-865/3045, Q-AE=-865/3045, P-Q=-865/3015, P-AF=-865/3015, O-AF=-865/3015, N-O=-675/2231, L-N=-675/2231
WEBS D-T=-262/225, E-T=-245/910, F-T=-1167/466, F-R=0/399, H-Q=0/345, H-O=-1149/464, I-O=-244/903, J-O=-264/226

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are 5x8 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=402, L=402.
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.
10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

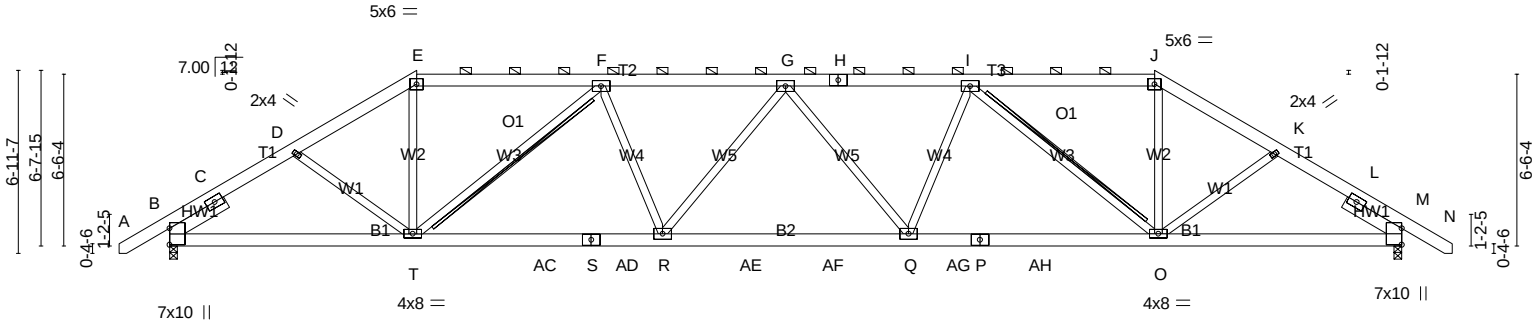
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	B04	HIP	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:03 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-NW3JFm7pc4jITlnPhHCUSbYBHrtuAfR7QZ98MsyFhcc

1-11-0	4-10-0	9-4-8	16-4-8	23-4-8	30-4-8	37-4-8	41-11-0	46-9-0	48-8-0
1-11-0	4-10-0	4-6-8	7-0-0	7-0-0	7-0-0	7-0-0	4-6-8	4-10-0	1-11-0

Scale = 1:87.4



9-4-8	18-8-8	28-0-8	37-4-8	46-9-0
9-4-8	9-4-0	9-4-0	9-4-0	9-4-8

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.21	Q-R	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.44	Q-R	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.14	M	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.23	Q-R	>999	240	Weight: 347 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 2-5-12, Right 2x6 SP No.2 2-5-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-3-1 oc purlins, except 2-0-0 oc purlins (3-9-8 max.): E-J.
BOT CHORD Rigid ceiling directly applied or 6-10-10 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - F-T, I-O
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
Brace must cover 90% of web length.

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

REACTIONS. (lb/size) B=1976/0-3-8 (min. 0-2-5), M=1976/0-3-8 (min. 0-2-5)
Max Horz B=215(LC 11)
Max UpliftB=-420(LC 9), M=-420(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-459/13, C-D=-2725/1021, D-E=-2682/1018, E-F=-2298/944, F-G=-3452/1354, G-H=-3452/1354, H-I=-3452/1354, I-J=-2298/944, J-K=-2682/1018, K-L=-2725/1020, L-M=-459/13
BOT CHORD B-T=-691/2199, T-AC=-1033/3296, S-AC=-1033/3296, S-AD=-1033/3296, R-AD=-1033/3296, R-AE=-1156/3612, AE-AF=-1156/3612, Q-AF=-1156/3612, Q-AG=-1036/3296, P-AG=-1036/3296, P-AH=-1036/3296, O-AH=-1036/3296, M-O=-703/2199
WEBS D-T=-193/277, E-T=-258/924, F-T=-1369/579, F-R=-72/548, G-R=-307/226, G-Q=-307/226, I-Q=-72/548, I-O=-1369/578, J-O=-258/924, K-O=-194/277

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are 5x8 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=420, M=420.
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.
10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

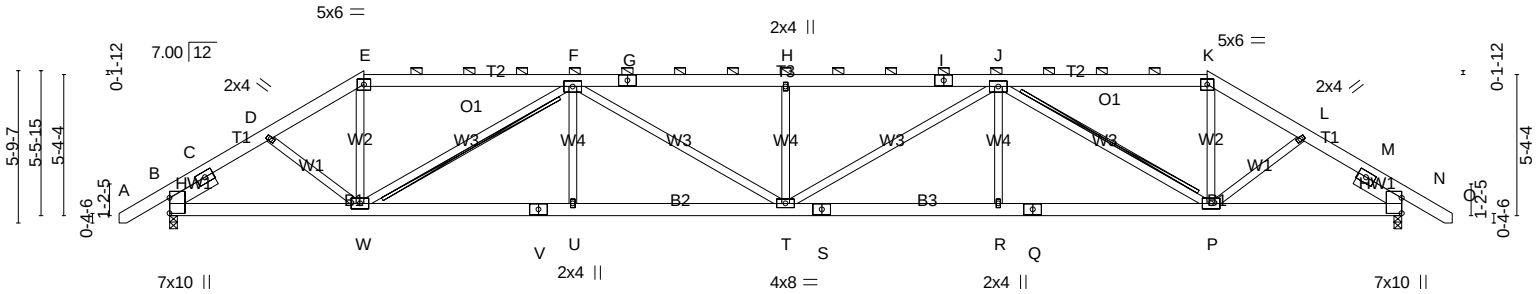
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	B05	HIP	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:04 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-sidhS67SNOrb5vLbF_jj_o4RnFLHv6AGfDvhuJyFhcb

1-11-0	3-10-0	7-4-8	15-3-10	23-4-8	31-5-6	39-4-8	42-11-0	46-9-0	48-8-0
1-11-0	3-10-0	3-6-8	7-11-2	8-0-14	8-0-14	7-11-2	3-6-8	3-10-0	1-11-0

Scale = 1:87.4



7-4-8	15-3-10	23-4-8	31-5-6	39-4-8	46-9-0
7-4-8	7-11-2	8-0-14	8-0-14	7-11-2	7-4-8

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.23	T	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.46	T-U	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.12	N	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.28	T	>999	240	Weight: 343 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-9-13 oc purlins, except 2-0-0 oc purlins (3-11-4 max.): E-K.
BOT CHORD	Rigid ceiling directly applied or 7-6-7 oc bracing.
WEBS	T-Brace: 2x6 SPF No.2 - F-W, J-P Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

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

REACTIONS. (lb/size) B=1976/0-3-8 (min. 0-2-5), N=1976/0-3-8 (min. 0-2-5)
Max Horz B=176(LC 11)
Max UpliftB=-482(LC 9), N=-482(LC 8)

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

TOP CHORD	B-C=-504/123, C-D=-2651/987, D-E=-2716/1022, E-F=-2352/948, F-G=-4513/1744, G-H=-4513/1744, H-I=-4513/1744, I-J=-4513/1744, J-K=-2352/948, K-L=-2716/1022, L-M=-2651/987, M-N=-503/123
BOT CHORD	B-W=-667/2089, V-W=-1308/3990, U-V=-1308/3990, T-U=-1308/3990, S-T=-1311/3990, R-S=-1311/3990, Q-R=-1311/3990, P-Q=-1311/3990, N-P=-675/2089
WEBS	D-W=-221/447, E-W=-242/878, F-W=-1958/743, F-U=0/329, F-T=-260/654, H-T=-477/324, J-T=-262/654, J-R=0/329, J-P=-1958/742, K-P=-242/878, L-P=-223/447

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are 5x8 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=482, N=482.
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.
10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

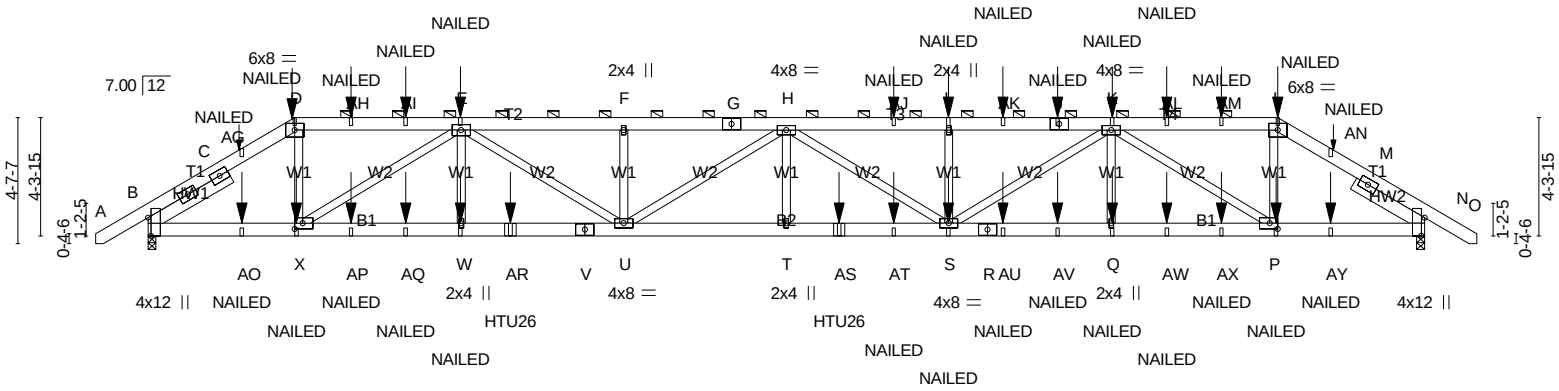
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	B06	HIP GIRDER	1	3	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:06 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-o5lRto9iv?5JKDV_MPlB3D9pu2z8N6OZ6XOooyByFhcZ

1-11-0	5-4-8	11-5-11	17-5-1	23-4-8	29-3-15	35-3-5	41-4-8	46-9-0	48-8-0
1-11-0	5-4-8	6-1-3	5-11-7	5-11-7	5-11-7	5-11-7	6-1-3	5-4-8	1-11-0

Scale = 1:84.4



5-4-8	11-5-11	17-5-1	23-4-8	29-3-15	35-3-5	41-4-8	46-9-0
5-4-8	6-1-3	5-11-7	5-11-7	5-11-7	5-11-7	6-1-3	5-4-8

Plate Offsets (X,Y)-- [B:0-7-15,Edge], [N:0-7-15,Edge], [P:0-3-8,0-2-8], [X:0-3-8,0-2-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	0.39	S-T	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.50	S-T	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.35	Horz(CT)	0.10	N	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 1030 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP DSS
BOT CHORD 2x6 SP DSS
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 3-5-12, Right 2x6 SP No.2 2-11-12

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

REACTIONS. (lb/size) B=3845/0-3-8 (min. 0-1-8), N=3609/0-3-8 (min. 0-1-8)
Max Horz B=-140(LC 25)
Max Uplift B=-1812(LC 5), N=-1795(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2681/1367, C-AG=-5667/2809, D-AG=-5642/2813, D-AH=-4803/2429, AH-AI=-4803/2429, E-AI=-4803/2429, E-F=-11255/5337, F-G=-11255/5337, G-H=-11255/5337, H-AJ=-11199/5581, I-AJ=-11199/5581, I-AK=-11199/5581, J-AK=-11199/5581, J-K=-11199/5581, K-AL=-4500/2412, AL-AM=-4500/2412, L-AM=-4500/2412, L-AN=-5286/2796, M-AN=-5324/2787, M-N=-2433/1316
BOT CHORD B-AO=-2381/4700, X-AO=-2381/4700, X-AP=-4504/9321, AP-AQ=-4504/9321, W-AQ=-4504/9321, W-AR=-4504/9321, V-AR=-4504/9321, U-V=-4504/9321, T-U=-5827/12178, T-AS=-5827/12178, AS-AT=-5827/12178, S-AT=-5827/12178, R-S=-4353/8509, R-AU=-4353/8509, AU-AV=-4353/8509, Q-AV=-4353/8509, Q-AW=-4353/8509, AW-AX=-4353/8509, P-AX=-4353/8509, P-AY=-2250/4403, N-AY=-2250/4403
WEBS D-X=-1232/2745, E-X=-5407/2536, E-W=-340/1113, E-U=-1025/2316, F-U=-329/269, H-U=-1112/629, H-T=-232/856, H-S=-1179/336, I-S=-519/461, K-S=-1423/3218, K-Q=0/424, K-P=-4800/2452, L-P=-1239/2567

NOTES-
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) All plates are 5x8 MT20 unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=1812, N=1795.

Continued on page 2

NOTES-

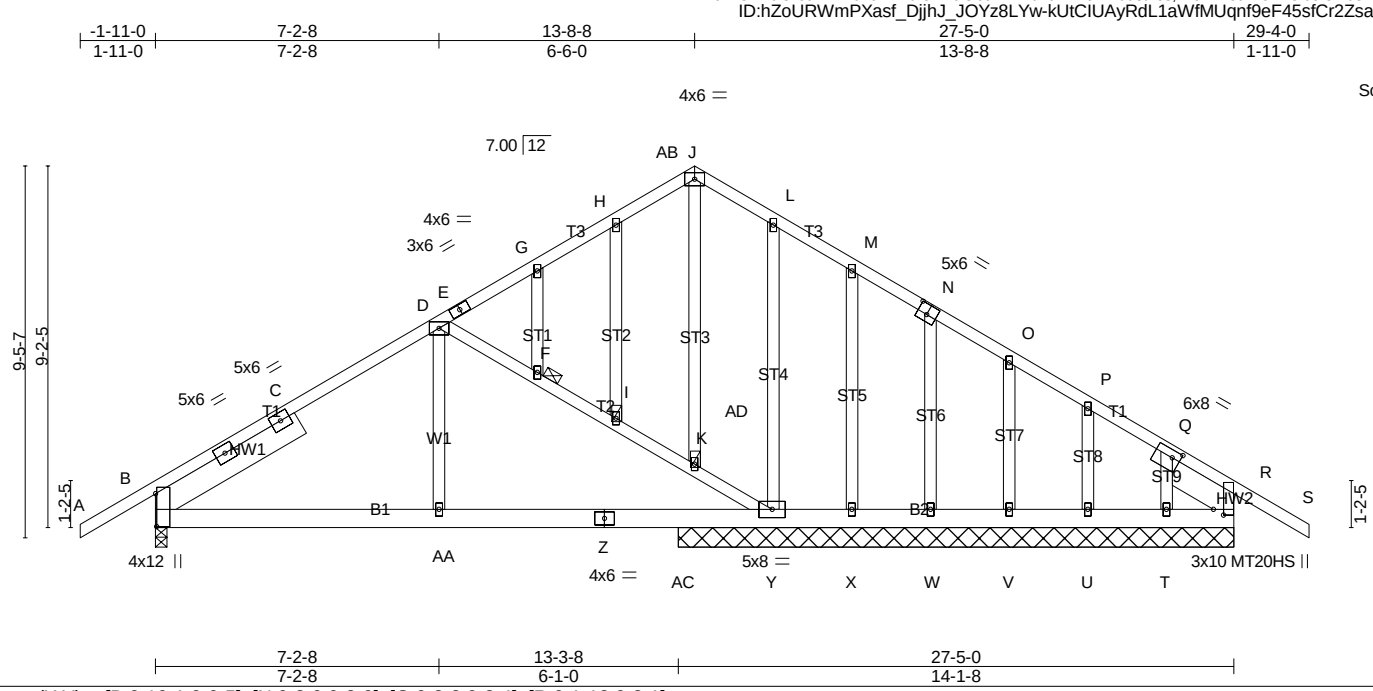
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 12-0-8 oc max. starting at 13-3-4 from the left end to 25-3-12 to connect truss(es) JA2 (1 ply 2x6 SP) to back face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.
14) "NAILED" indicates 3-10d Nails (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: A-D=-60, D-L=-60, L-O=-60, Y-AC=-20
   Concentrated Loads (lb)
      Vert: D=-70(B) L=-70(B) X=-32(B) E=-70(B) W=-32(B) I=-70(B) S=-32(B) Q=-32(B) P=-32(B) K=-70(B) J=-70(B) AH=-70(B) AI=-70(B) AJ=-70(B) AK=-70(B) AL=-70(B) AM=-70(B) AO=-112(B) AP=-32(B) AQ=-32(B) AR=-1023(B) AS=-1023(B) AT=-32(B) AU=-32(B) AV=-32(B) AW=-32(B) AX=-32(B) AY=-112(B)

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	C01	GABLE	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:08 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-kUtCIUAyRdL1aWfMUqnf9eF45sfCr2Zsartv14yFhcX



7-2-8
7-2-8
13-3-8
6-1-0
27-5-0
14-1-8

Plate Offsets (X,Y)-- [B:0-10-1,0-0-5], [N:0-3-0,0-3-0], [Q:0-2-8,0-2-4], [R:0-1-12,0-3-1]

LOADING (psf)		**SPACING-** 2-0-0	**CSI.**	**DEFL.** in (loc) l/defl L/d	**PLATES**	**GRIP**
TCLL 20.0		Plate Grip DOL 1.15	TC 0.51	Vert(LL) -0.06 Y-AA >999 360	MT20	244/190
TCDL 10.0		Lumber DOL 1.15	BC 0.48	Vert(CT) -0.14 Y-AA >999 240	MT20HS	187/143
BCLL 0.0	*	Rep Stress Incr NO	WB 0.24	Horz(CT) 0.02 R n/a n/a		
BCDL 10.0		Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.03 Y-AA >999 240	Weight: 221 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3
SLIDER Left 2x8 SP DSS 4-3-8, Right 2x8 SP DSS 2-0-2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): K, I, F

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

REACTIONS. All bearings 14-1-8 except (jt=length) B=0-3-8.
(lb) - Max Horz B=-304(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) V, U, R except B=-295(LC 12), X=-158(LC 13), W=-230(LC 3), T=-236(LC 22)
Max Grav All reactions 250 lb or less at joint(s) U, T except B=1124(LC 1), X=751(LC 1), V=260(LC 20), R=834(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1394/270, C-D=-1290/298, D-E=-743/176, E-G=-672/192, G-H=-677/221, H-AB=-697/256, J-AB=-675/270, J-L=-690/274, L-M=-756/248, M-N=-702/202, N-O=-749/164, O-P=-756/123, P-Q=-775/83, Q-R=-999/89, D-F=-720/306, F-I=-763/327, I-AD=-836/366, K-AD=-843/368, K-Y=-671/309
BOT CHORD B-AA=-271/1250, Z-AA=-271/1250, Z-AC=-271/1250, Y-AC=-271/1250, X-Y=-54/677, W-X=-54/677, V-W=-54/677, U-V=-54/677, T-U=-54/677, R-T=-54/677
WEBS J-K=-136/394, M-X=-314/131, Q-T=-61/263, D-AA=0/351

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are MT20 plates unless otherwise indicated.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) V, U, R except (jt=lb) B=295, X=158, W=230, T=236.
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) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
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

NOTES-

13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: A-D=-60, J-AB=-60, J-S=-60, B-AA=-20, R-AC=-20, Y-AD=-30(F)
   Trapezoidal Loads (plf)
      Vert: D=-61(F=-1)-to-AB=-66(F=-6), AA=-21(F=-1)-to-AC=-26(F=-6), D=-31(F)-to-AD=-36(F)
2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: A-D=-50, J-AB=-50, J-S=-50, B-AA=-20, R-AC=-20, Y-AD=-26(F)
   Trapezoidal Loads (plf)
      Vert: D=-51(F=-1)-to-AB=-56(F=-6), AA=-21(F=-1)-to-AC=-26(F=-6), D=-27(F)-to-AD=-32(F)
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
      Vert: A-D=-20, J-AB=-20, J-S=-20, B-AA=-40, R-AC=-40, Y-AD=-23(F)
   Trapezoidal Loads (plf)
      Vert: D=-21(F=-1)-to-AB=-26(F=-6), AA=-41(F=-1)-to-AC=-46(F=-6), D=-24(F)-to-AD=-28(F)
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: A-B=63, B-D=37, J-AB=37, J-R=37, R-S=30, B-AA=-12, R-AC=-12, Y-AD=9(F)
      Horz: A-B=-75, B-D=-49, D-J=-49, J-R=49, R-S=42
   Trapezoidal Loads (plf)
      Vert: D=36(F=-1)-to-AB=31(F=-6), AA=-13(F=-1)-to-AC=-18(F=-6), D=8(F)-to-AD=3(F)
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: A-B=30, B-D=37, J-AB=37, J-R=37, R-S=63, B-AA=-12, R-AC=-12, Y-AD=9(F)
      Horz: A-B=-42, B-D=-49, D-J=-49, J-R=49, R-S=75
   Trapezoidal Loads (plf)
      Vert: D=36(F=-1)-to-AB=31(F=-6), AA=-13(F=-1)-to-AC=-18(F=-6), D=8(F)-to-AD=3(F)
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: A-B=13, B-D=-61, J-AB=-61, J-R=-61, R-S=-53, B-AA=-20, R-AC=-20, Y-AD=-30(F)
      Horz: A-B=-33, B-D=41, D-J=41, J-R=-41, R-S=-33
   Trapezoidal Loads (plf)
      Vert: D=-62(F=-1)-to-AB=-67(F=-6), AA=-21(F=-1)-to-AC=-26(F=-6), D=-31(F)-to-AD=-36(F)
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: A-B=-53, B-D=-61, J-AB=-61, J-R=-61, R-S=13, B-AA=-20, R-AC=-20, Y-AD=-30(F)
      Horz: A-B=33, B-D=41, D-J=41, J-R=-41, R-S=33
   Trapezoidal Loads (plf)
      Vert: D=-62(F=-1)-to-AB=-67(F=-6), AA=-21(F=-1)-to-AC=-26(F=-6), D=-31(F)-to-AD=-36(F)
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: A-B=2, B-D=-16, J-AB=-16, J-R=18, R-S=10, B-AA=-12, R-AC=-12, Y-AD=2(F)
      Horz: A-B=-14, B-D=4, D-J=4, J-R=30, R-S=22
   Trapezoidal Loads (plf)
      Vert: D=-17(F=-1)-to-AB=-22(F=-6), AA=-13(F=-1)-to-AC=-18(F=-6), D=1(F)-to-AD=-4(F)
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: A-B=10, B-D=18, J-AB=18, J-R=-16, R-S=2, B-AA=-12, R-AC=-12, Y-AD=2(F)
      Horz: A-B=-22, B-D=-30, D-J=-30, J-R=-4, R-S=14
   Trapezoidal Loads (plf)
      Vert: D=17(F=-1)-to-AB=12(F=-6), AA=-13(F=-1)-to-AC=-18(F=-6), D=1(F)-to-AD=-4(F)
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: A-B=-31, B-D=-39, J-AB=-39, J-R=-5, R-S=2, B-AA=-20, R-AC=-20, Y-AD=-22(F)
      Horz: A-B=11, B-D=19, D-J=19, J-R=15, R-S=22
   Trapezoidal Loads (plf)
      Vert: D=-40(F=-1)-to-AB=-45(F=-6), AA=-21(F=-1)-to-AC=-26(F=-6), D=-23(F)-to-AD=-28(F)
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: A-B=2, B-D=-5, J-AB=-5, J-R=-39, R-S=-31, B-AA=-20, R-AC=-20, Y-AD=-22(F)
      Horz: A-B=-22, B-D=-15, D-J=-15, J-R=-19, R-S=-11
   Trapezoidal Loads (plf)
      Vert: D=-6(F=-1)-to-AB=-11(F=-6), AA=-21(F=-1)-to-AC=-26(F=-6), D=-23(F)-to-AD=-28(F)
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: A-B=33, B-D=40, J-AB=40, J-R=18, R-S=10, B-AA=-12, R-AC=-12, Y-AD=11(F)
      Horz: A-B=-45, B-D=-52, D-J=-52, J-R=30, R-S=22
   Trapezoidal Loads (plf)
      Vert: D=39(F=-1)-to-AB=34(F=-6), AA=-13(F=-1)-to-AC=-18(F=-6), D=10(F)-to-AD=5(F)
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: A-B=10, B-D=18, J-AB=18, J-R=40, R-S=33, B-AA=-12, R-AC=-12, Y-AD=11(F)
      Horz: A-B=-22, B-D=-30, D-J=-30, J-R=52, R-S=45
   Trapezoidal Loads (plf)
      Vert: D=17(F=-1)-to-AB=12(F=-6), AA=-13(F=-1)-to-AC=-18(F=-6), D=10(F)-to-AD=5(F)

Continued on page 3

LOAD CASE(S) Standard

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=33, B-D=40, J-AB=40, J-R=18, R-S=10, B-AA=-12, R-AC=-12, Y-AD=11(F)
Horz: A-B=-45, B-D=-52, D-J=-52, J-R=30, R-S=22
Trapezoidal Loads (plf)
Vert: D=39(F=-1)-to-AB=34(F=-6), AA=-13(F=-1)-to-AC=-18(F=-6), D=10(F)-to-AD=5(F)

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=10, B-D=18, J-AB=18, J-R=40, R-S=33, B-AA=-12, R-AC=-12, Y-AD=11(F)
Horz: A-B=-22, B-D=-30, D-J=-30, J-R=52, R-S=45
Trapezoidal Loads (plf)
Vert: D=17(F=-1)-to-AB=12(F=-6), AA=-13(F=-1)-to-AC=-18(F=-6), D=10(F)-to-AD=5(F)

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=25, B-D=17, J-AB=17, J-R=-5, R-S=2, B-AA=-20, R-AC=-20, Y-AD=-18(F)
Horz: A-B=-45, B-D=-37, D-J=-37, J-R=15, R-S=22
Trapezoidal Loads (plf)
Vert: D=16(F=-1)-to-AB=11(F=-6), AA=-21(F=-1)-to-AC=-26(F=-6), D=-19(F)-to-AD=-24(F)

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=2, B-D=-5, J-AB=-5, J-R=17, R-S=25, B-AA=-20, R-AC=-20, Y-AD=-18(F)
Horz: A-B=-22, B-D=-15, D-J=-15, J-R=37, R-S=45
Trapezoidal Loads (plf)
Vert: D=-6(F=-1)-to-AB=-11(F=-6), AA=-21(F=-1)-to-AC=-26(F=-6), D=-19(F)-to-AD=-24(F)

18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: A-D=-20, J-AB=-20, J-S=-20, B-AA=-20, R-AC=-20, Y-AD=-15(F)
Trapezoidal Loads (plf)
Vert: D=-21(F=-1)-to-AB=-26(F=-6), AA=-21(F=-1)-to-AC=-26(F=-6), D=-16(F)-to-AD=-21(F)

19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=-58, B-D=-64, J-AB=-64, J-R=-39, R-S=-33, B-AA=-20, R-AC=-20, Y-AD=-32(F)
Horz: A-B=8, B-D=14, D-J=14, J-R=11, R-S=17
Trapezoidal Loads (plf)
Vert: D=-65(F=-1)-to-AB=-70(F=-6), AA=-21(F=-1)-to-AC=-26(F=-6), D=-33(F)-to-AD=-38(F)

20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=-33, B-D=-39, J-AB=-39, J-R=-64, R-S=-58, B-AA=-20, R-AC=-20, Y-AD=-32(F)
Horz: A-B=-17, B-D=-11, D-J=-11, J-R=-14, R-S=-8
Trapezoidal Loads (plf)
Vert: D=-40(F=-1)-to-AB=-45(F=-6), AA=-21(F=-1)-to-AC=-26(F=-6), D=-33(F)-to-AD=-38(F)

21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=-17, B-D=-22, J-AB=-22, J-R=-39, R-S=-33, B-AA=-20, R-AC=-20, Y-AD=-28(F)
Horz: A-B=-33, B-D=-28, D-J=-28, J-R=11, R-S=17
Trapezoidal Loads (plf)
Vert: D=-23(F=-1)-to-AB=-28(F=-6), AA=-21(F=-1)-to-AC=-26(F=-6), D=-29(F)-to-AD=-34(F)

22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=-33, B-D=-39, J-AB=-39, J-R=-22, R-S=-17, B-AA=-20, R-AC=-20, Y-AD=-28(F)
Horz: A-B=-17, B-D=-11, D-J=-11, J-R=28, R-S=33
Trapezoidal Loads (plf)
Vert: D=-40(F=-1)-to-AB=-45(F=-6), AA=-21(F=-1)-to-AC=-26(F=-6), D=-29(F)-to-AD=-34(F)

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-D=-60, J-AB=-60, J-S=-20, B-AA=-20, R-AC=-20, Y-AD=-30(F)
Trapezoidal Loads (plf)
Vert: D=-61(F=-1)-to-AB=-66(F=-6), AA=-21(F=-1)-to-AC=-26(F=-6), D=-31(F)-to-AD=-36(F)

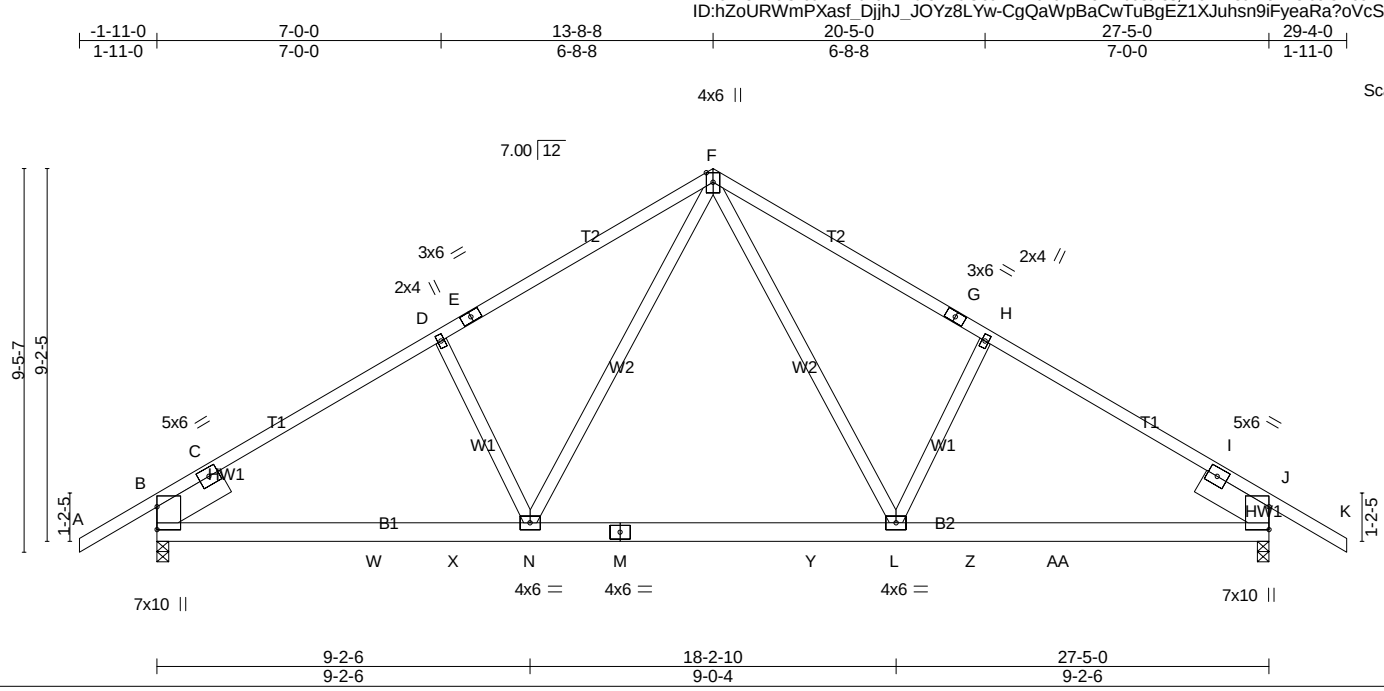
24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-D=-20, J-AB=-20, J-S=-60, B-AA=-20, R-AC=-20, Y-AD=-30(F)
Trapezoidal Loads (plf)
Vert: D=-21(F=-1)-to-AB=-26(F=-6), AA=-21(F=-1)-to-AC=-26(F=-6), D=-31(F)-to-AD=-36(F)

25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-D=-50, J-AB=-50, J-S=-20, B-AA=-20, R-AC=-20, Y-AD=-26(F)
Trapezoidal Loads (plf)
Vert: D=-51(F=-1)-to-AB=-56(F=-6), AA=-21(F=-1)-to-AC=-26(F=-6), D=-27(F)-to-AD=-32(F)

26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-D=-20, J-AB=-20, J-S=-50, B-AA=-20, R-AC=-20, Y-AD=-26(F)
Trapezoidal Loads (plf)
Vert: D=-21(F=-1)-to-AB=-26(F=-6), AA=-21(F=-1)-to-AC=-26(F=-6), D=-27(F)-to-AD=-32(F)

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	C02	Common	5	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:09 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-CgQaWpBaCwTuBgEZ1XJuhsn9iFyeaRa?oVcSZWyFhcW



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.16	L-N	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.28	L-N	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.06	J	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.09	L-N	>999	240	Weight: 174 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 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=1212/0-3-8 (min. 0-1-8), J=1212/0-3-8 (min. 0-1-8)
Max Horz B=304(LC 11)
Max Uplift B=-341(LC 12), J=-341(LC 13)
Max Grav B=1276(LC 19), J=1277(LC 20)

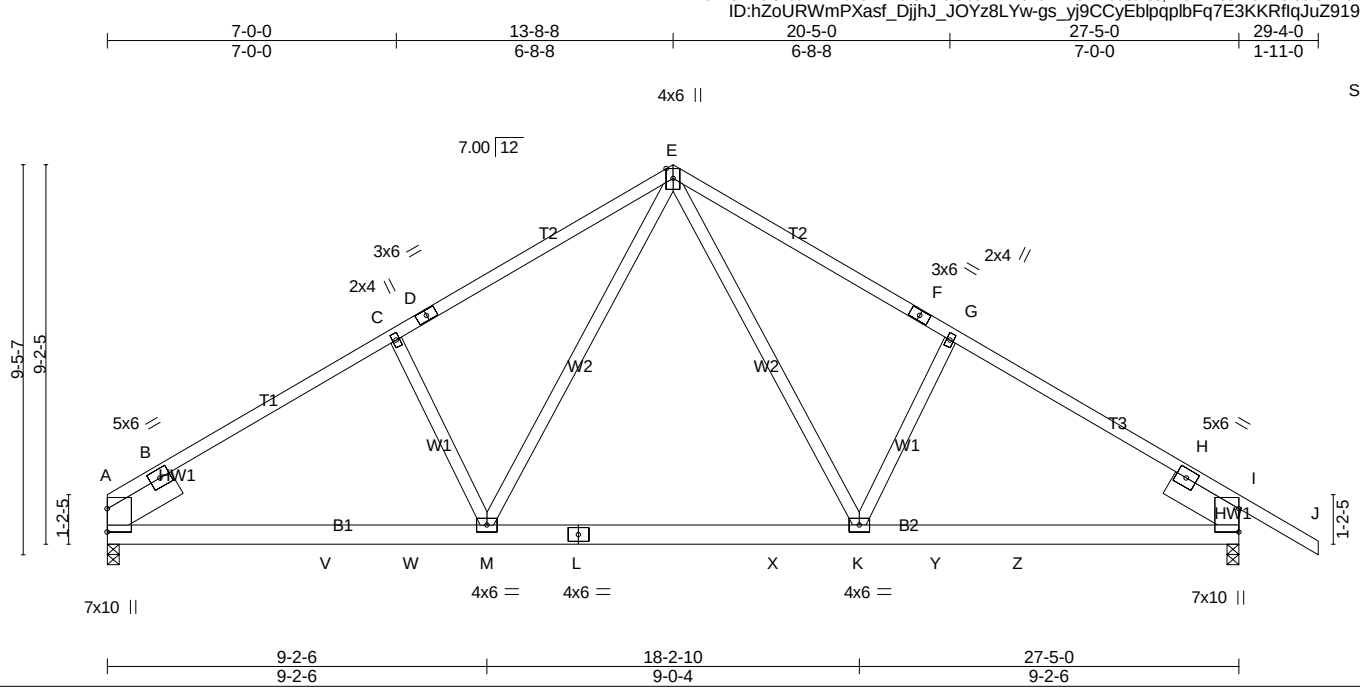
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-399/0, C-D=-1548/515, D-E=-1467/548, E-F=-1431/585, F-G=-1431/585, G-H=-1467/548, H-I=-1550/515, I-J=-399/0
BOT CHORD B-W=-367/1458, W-X=-367/1458, N-X=-367/1458, M-N=-108/994, M-Y=-108/994, L-Y=-108/994, L-Z=-272/1251, Z-AA=-272/1251, J-AA=-272/1251
WEBS F-L=-241/674, H-L=-417/352, F-N=-241/671, D-N=-417/352

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for 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 BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=341, J=341.
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	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	C03	Common	4	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:10 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-gs_yj9CCyEblpqplbFq7E3KKRflqJuZ919M?5zyFhcV



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.16	K-M	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.27	K-M	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.06	I	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.09	K-M	>999	240	Weight: 170 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 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) A=1093/0-3-8 (min. 0-1-8), I=1216/0-3-8 (min. 0-1-8)
Max Horz A=-292(LC 10)
Max UpliftA=-277(LC 12), I=-341(LC 13)
Max Grav A=1160(LC 19), I=1279(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-439/0, B-C=-1566/525, C-D=-1470/558, D-E=-1434/595, E-F=-1436/590, F-G=-1472/553, G-H=-1553/520, H-I=-401/0
BOT CHORD A-V=-375/1476, V-W=-375/1476, M-W=-375/1476, L-M=-111/1000, L-X=-111/1000, K-X=-111/1000, K-Y=-276/1256, Y-Z=-276/1256, I-Z=-276/1256
WEBS E-K=-241/671, G-K=-417/352, E-M=-250/690, C-M=-416/355

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for 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 BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=277, I=341.
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	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	C04	COMMON GIRDER	1	4	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:11 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-82YKwVDrjYjcR_Ox9yLMmHtXF3gi2JdIGp5ZePyFhcU

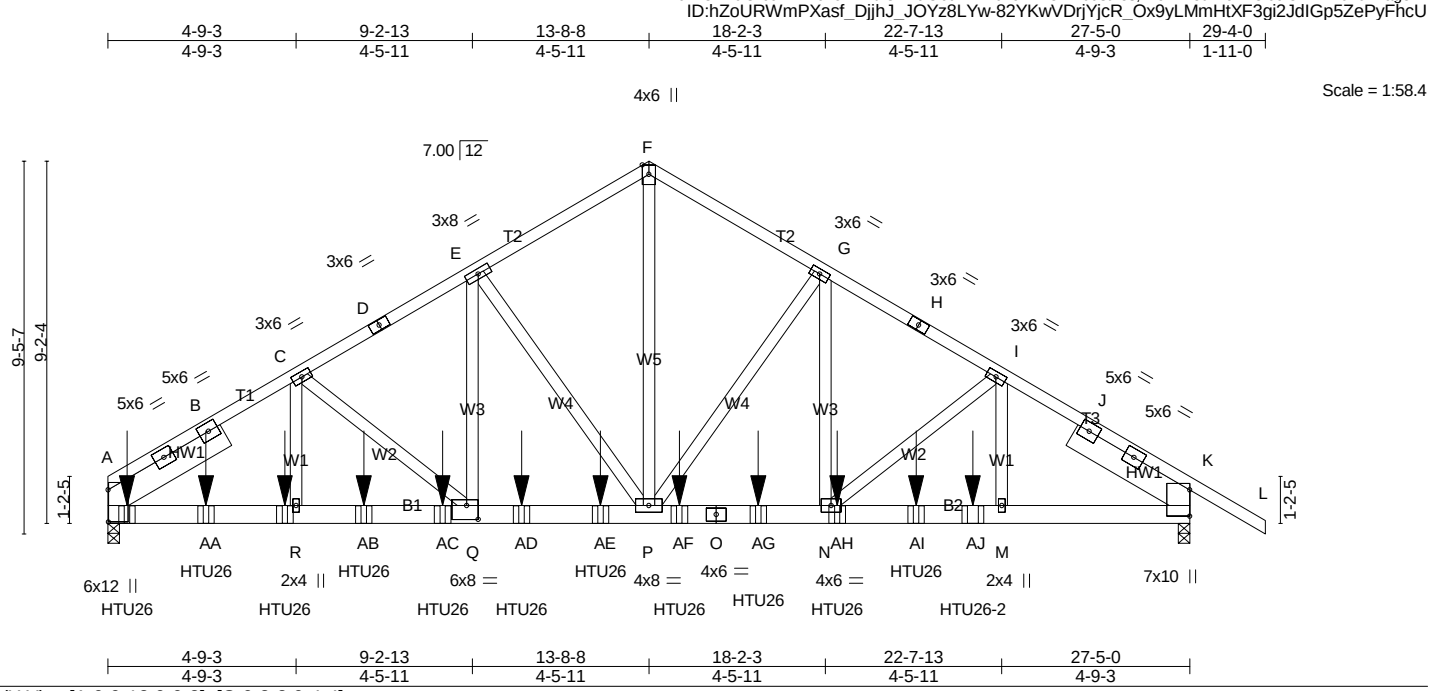


Plate Offsets (X,Y)-- [A:0-9-12,0-0-2], [Q:0-3-8,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.12	Q-R	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.24	Q-R	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.08	K	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.13	Q-R	>999	240	Weight: 853 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP SS *Except*
T3: 2x4 SP No.1
BOT CHORD 2x6 SP DSS
WEBS 2x4 SP No.2
SLIDER Left 2x8 SP DSS 3-5-12, Right 2x8 SP DSS 3-5-12

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=11585/0-3-8 (min. 0-3-7), K=6809/0-3-8 (min. 0-2-0)
Max Horz A=-292(LC 6)
Max UpliftA=-2834(LC 8), K=-1925(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-5005/1242, B-C=-13992/3487, C-D=-12079/3056, D-E=-12015/3076, E-F=-8670/2337, F-G=-8666/2339, G-H=-9874/2679, H-I=-9938/2660, I-J=-9916/2804, J-K=-2625/714
BOT CHORD A-AA=-2969/11635, R-AA=-2969/11635, R-AB=-2969/11635, AB-AC=-2969/11635, Q-AC=-2969/11635, Q-AD=-2614/10479, AD-AE=-2614/10479, P-AE=-2614/10479, P-AF=-2156/8609, O-AF=-2156/8609, O-AG=-2156/8609, N-AG=-2156/8609, N-AH=-2180/8197, AH-AI=-2180/8197, AI-AJ=-2180/8197, M-AJ=-2180/8197, K-M=-2180/8197
WEBS F-P=-2224/8455, G-P=-2059/835, G-N=-624/1876, I-N=-135/604, I-M=-258/328, E-P=-5249/1418, E-Q=-1293/5497, C-Q=-1524/455, C-R=-606/2650

NOTES-
1) 4-ply truss to be connected together with Simpson SDS 1/4 x 6 screws 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 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=2834, K=1925.
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) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 0-5-12 from the left end to 18-5-12 to connect truss(es) A09 (1 ply 2x6 SP), A08 (1 ply 2x6 SP), A07 (1 ply 2x6 SP), A05 (1 ply 2x6 SP), A04 (1 ply 2x6 SP), A03 (1 ply 2x6 SP) to back face of bottom chord.
10) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent at 20-5-12 from the left end to connect truss(es) A02 (1 ply 2x6 SP) to back face of bottom chord.

Continued on page 2

NOTES-

11) Use Simpson Strong-Tie HTU26-2 (20-10d Girder, 14-10d Truss, Single Ply Girder) or equivalent at 21-11-0 from the left end to connect truss(es) A01 (2 ply 2x6 SP) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: A-F=-60, F-L=-60, S-W=-20
   Concentrated Loads (lb)
      Vert: R=-1740(B) U=-1745(B) AA=-1740(B) AB=-1740(B) AC=-1740(B) AD=-1630(B) AE=-1770(B) AF=-723(B) AG=-695(B) AH=-701(B) AI=-726(B) AJ=-1136(B)

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	CJ1	DIAGONAL HIP GIRDER	2	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:12 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-dF6i8rETUrrT28z8jgsbJUPqNT7jnvKRVTr6AryFhcT

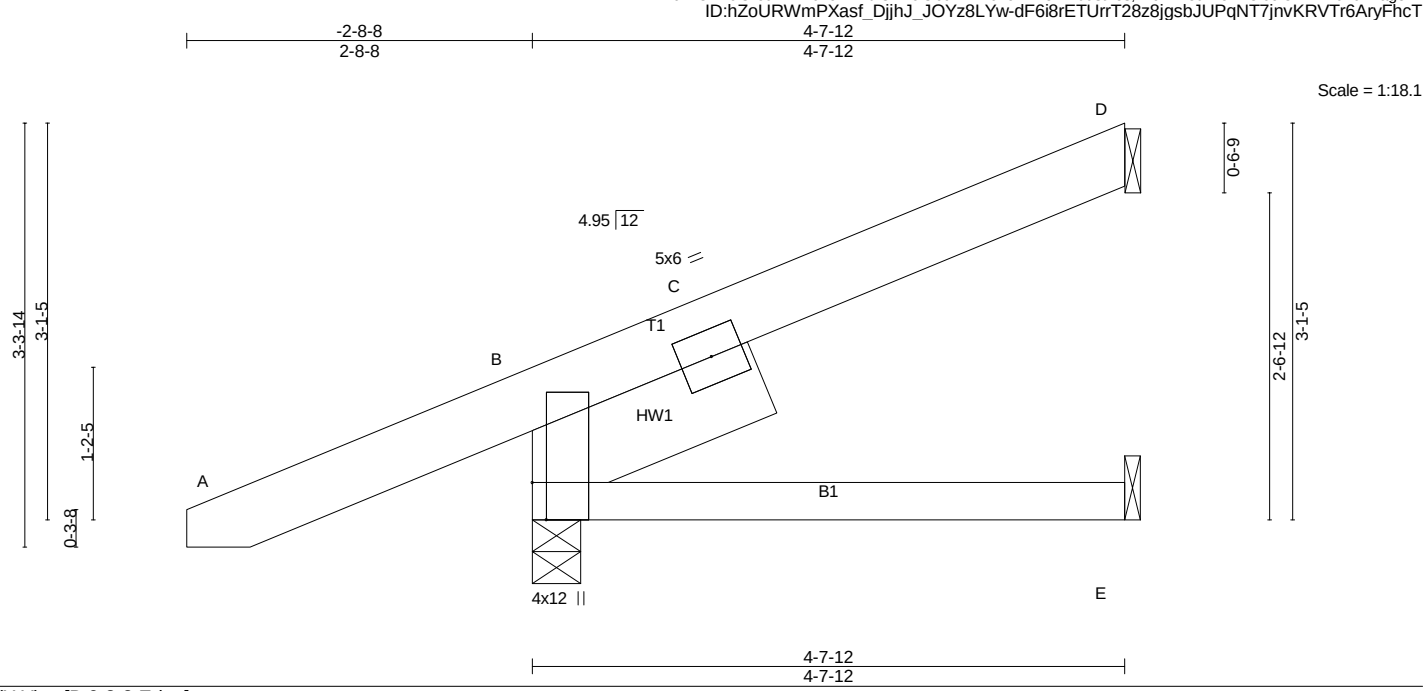


Plate Offsets (X,Y)-- [B:0-3-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	0.02	E-H	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	E-H	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.01	B	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP							Weight: 32 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x8 SP DSS 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) D=75/Mechanical, B=258/0-4-9 (min. 0-1-8), E=27/Mechanical
Max Horz B=174(LC 16)
Max Uplift D=-99(LC 16), B=-184(LC 16)
Max Grav D=75(LC 1), B=258(LC 1), E=62(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-266/192

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) B=184.
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.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-60
Trapezoidal Loads (plf)
Vert: B=0(F=30, B=30)-to-D=-70(F=-5, B=-5), F=0(F=10, B=10)-to-E=-23(F=-2, B=-2)

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	CJ2	DIAGONAL HIP GIRDER	2	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:13 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-5Rg5LBE5F9zKgHXKGNNqsiy?7tTNWMabj7agiHyFhcS

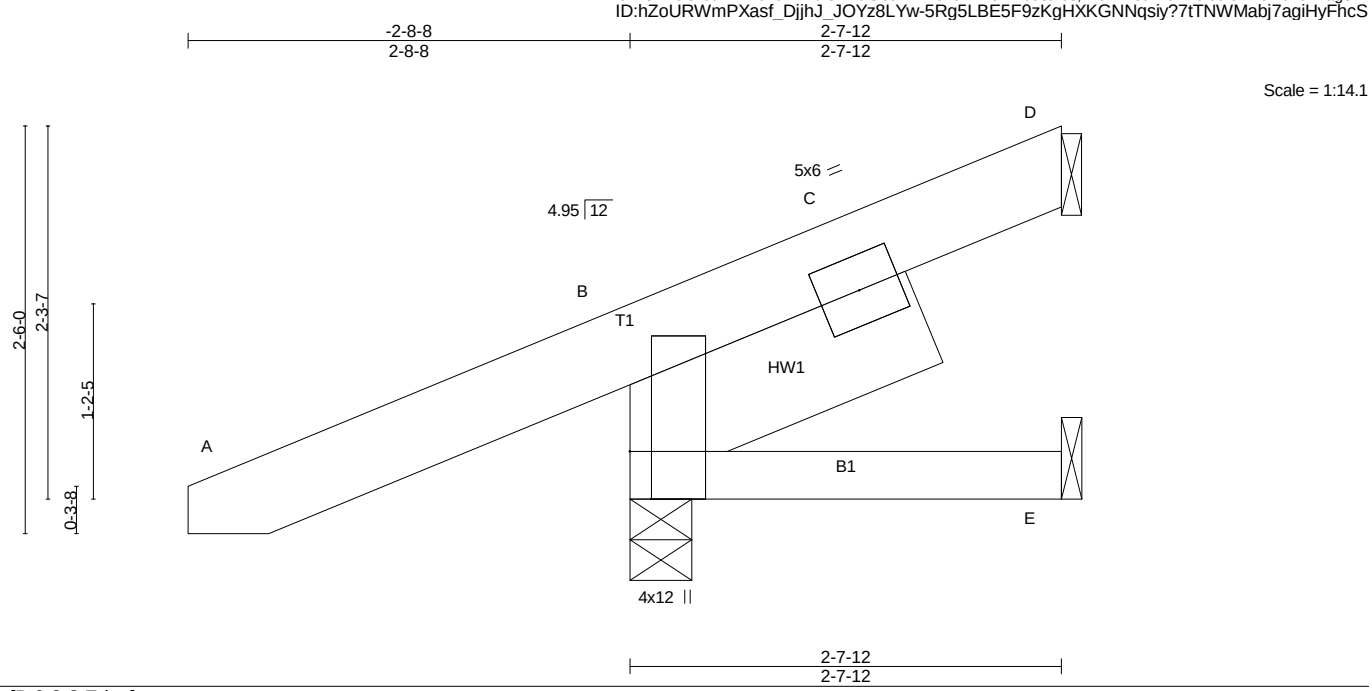


Plate Offsets (X,Y)-- [B:0-3-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.00	H	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	H	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	B	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	-0.00	H	>999	240	Weight: 24 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x8 SP DSS 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-7-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) D=19/Mechanical, B=321/0-4-9 (min. 0-1-8), E=14/Mechanical
Max Horz B=101(LC 12)
Max Uplift D=-40(LC 12), B=-151(LC 8)
Max Grav D=21(LC 3), B=321(LC 1), E=33(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) B=151.
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	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	CJ3	DIAGONAL HIP GIRDER	2	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:13 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-5Rg5LBE5F9zKgHXKGNNqsiy?RtT5WMabj7agiHyFhcS

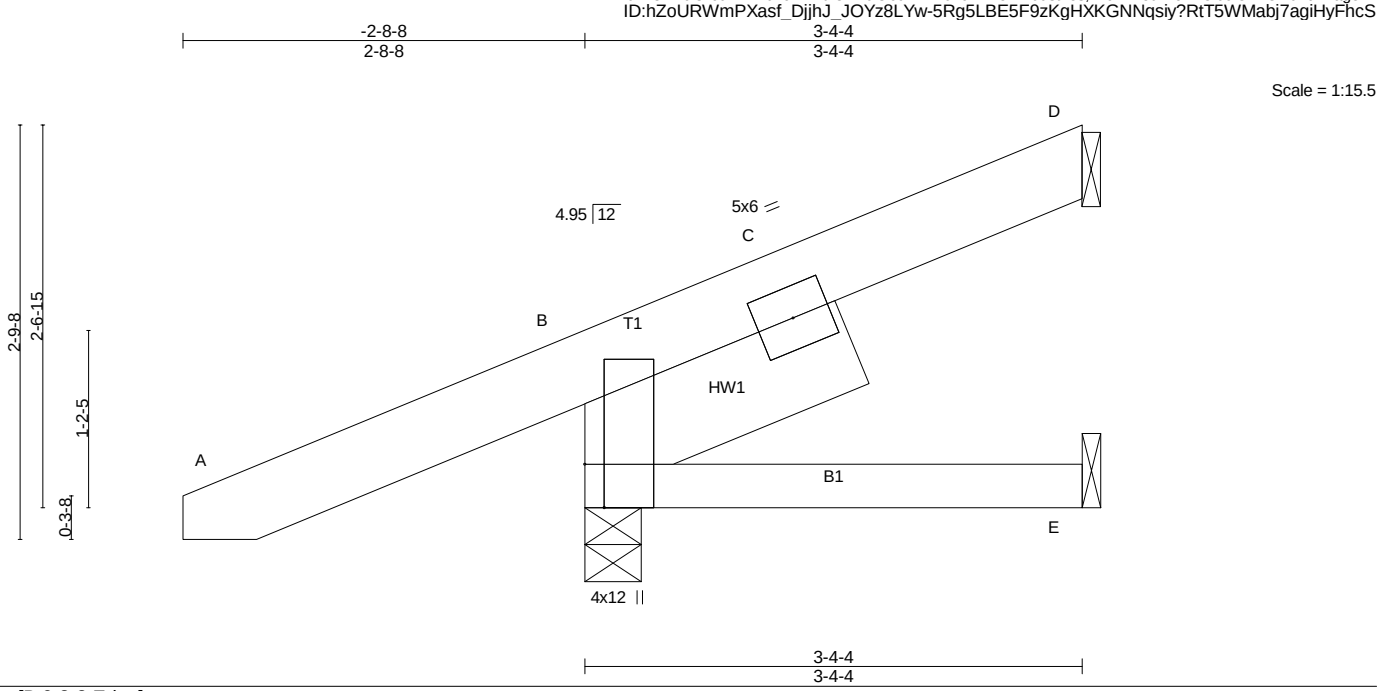


Plate Offsets (X,Y)-- [B:0-3-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.00	E-H	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	E-H	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	B	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	-0.00	E-H	>999	240	Weight: 27 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x8 SP DSS 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) D=9/Mechanical, B=240/0-4-9 (min. 0-1-8), E=9/Mechanical
Max Horz B=130(LC 12)
Max Uplift D=-80(LC 12), B=-137(LC 12)
Max Grav D=20(LC 4), B=240(LC 1), E=36(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) B=137.
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.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-60
Trapezoidal Loads (plf)
Vert: B=0(F=30, B=30)-to-D=-50(F=5, B=5), F=0(F=10, B=10)-to-E=-17(F=2, B=2)

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	CJ4	Diagonal Hip Girder	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:14 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-ZdETZXFj0T5BIR6Wq5u4OvVC0GpDFoqkynKDFkyFhcR

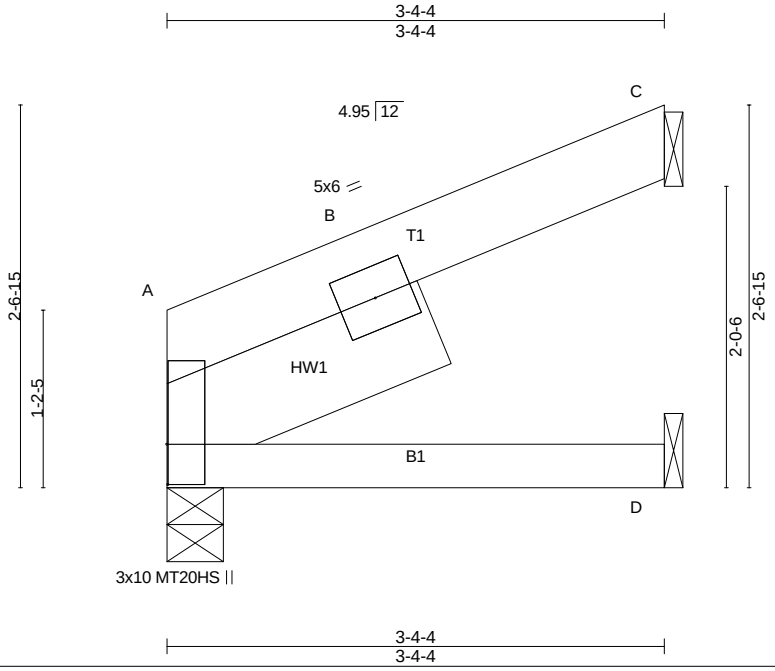


Plate Offsets (X,Y)-- [A:0-3-4,0-0-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	0.01	D-G	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	D-G	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	A	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP							Weight: 20 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER Left 2x8 SP DSS 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-4 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) A=37/0-4-9 (min. 0-1-8), C=56/Mechanical, D=17/Mechanical
Max Horz A=85(LC 12)
Max Uplift A=-58(LC 12), C=-96(LC 12)
Max Grav A=51(LC 3), C=56(LC 1), D=38(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) All plates are MT20 plates unless otherwise indicated.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C.
7) 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.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Trapezoidal Loads (plf)
Vert: A=0(F=30, B=30)-to-C=-50(F=5, B=5), E=0(F=10, B=10)-to-D=-17(F=2, B=2)

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	D01	Common Supported Gable	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:15 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-1qormtGLnmD2vbhjOoQJx71LLg9n_FEuBR3mnAyFhcQ

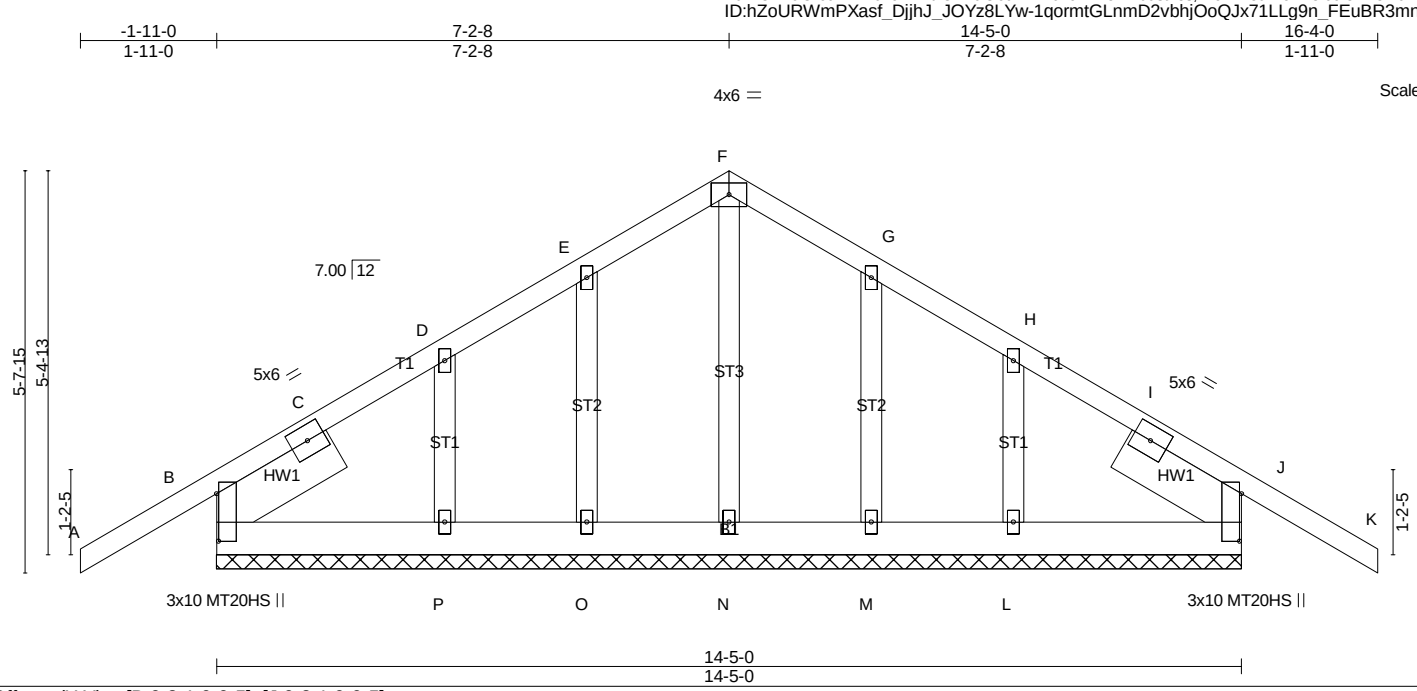


Plate Offsets (X,Y)-- [B:0-8-1,0-0-5], [J:0-8-1,0-0-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.01	K	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.02	K	n/r	120	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	J	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 102 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
OTHERS 2x4 SP No.3
SLIDER Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12

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

REACTIONS. All bearings 14-5-0.
(lb) - Max Horz B=-178(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) B, O, M except J=-103(LC 13), P=-149(LC 12), L=-141(LC 13)
Max Grav All reactions 250 lb or less at joint(s) N, O, P, M, L except B=296(LC 1), J=296(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are MT20 plates unless otherwise indicated.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, O, M except (jt=lb) J=103, P=149, L=141.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	D02	Common	2	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:16 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-V0LD_DHzY4LuXlGvyVxYTKaS?4RUjha1P5pKJcyFhcP

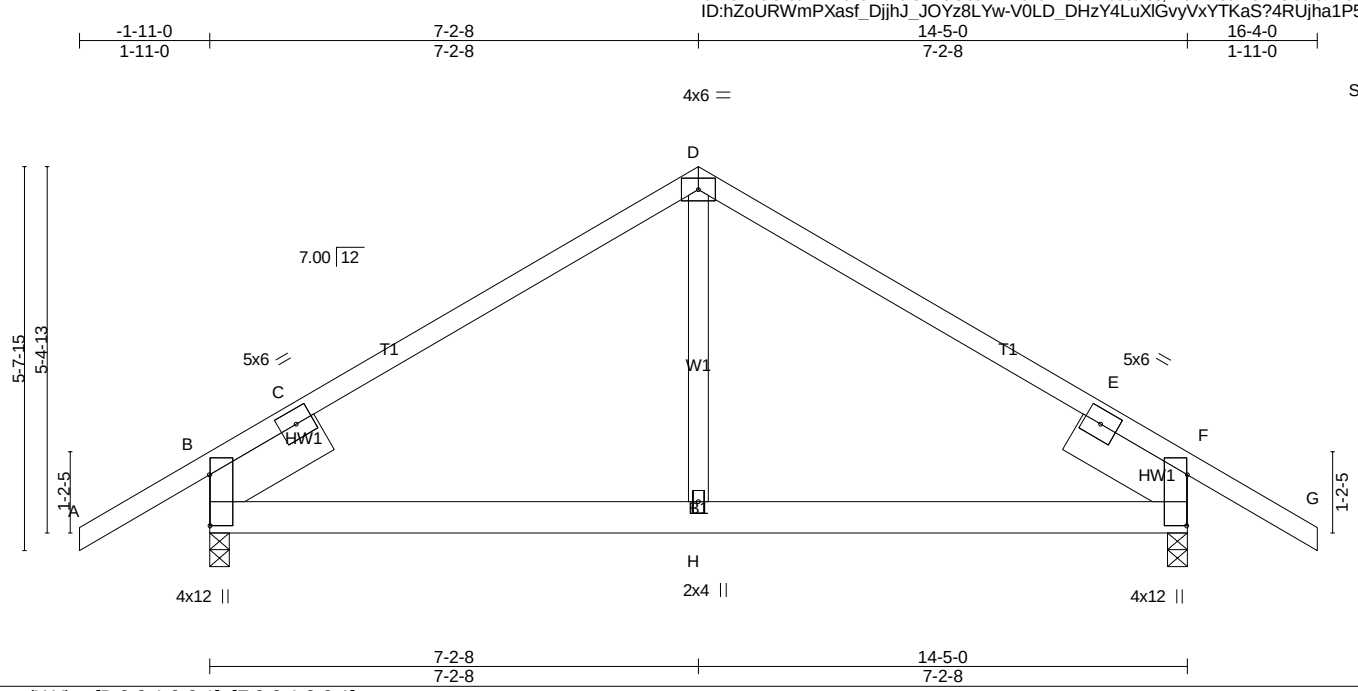


Plate Offsets (X,Y)-- [B:0-9-1,0-0-1], [F:0-9-1,0-0-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	0.04	H-K	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.05	H-K	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.02	B	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 85 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12

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.

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

REACTIONS. (lb/size) B=692/0-3-8 (min. 0-1-8), F=692/0-3-8 (min. 0-1-8)
Max Horz B=-178(LC 10)
Max UpliftB=-208(LC 12), F=-208(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-596/493, C-D=-633/245, D-E=-633/245, E-F=-596/494
BOT CHORD B-H=-59/465, F-H=-59/465
WEBS D-H=-5/292

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=208, F=208.
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.

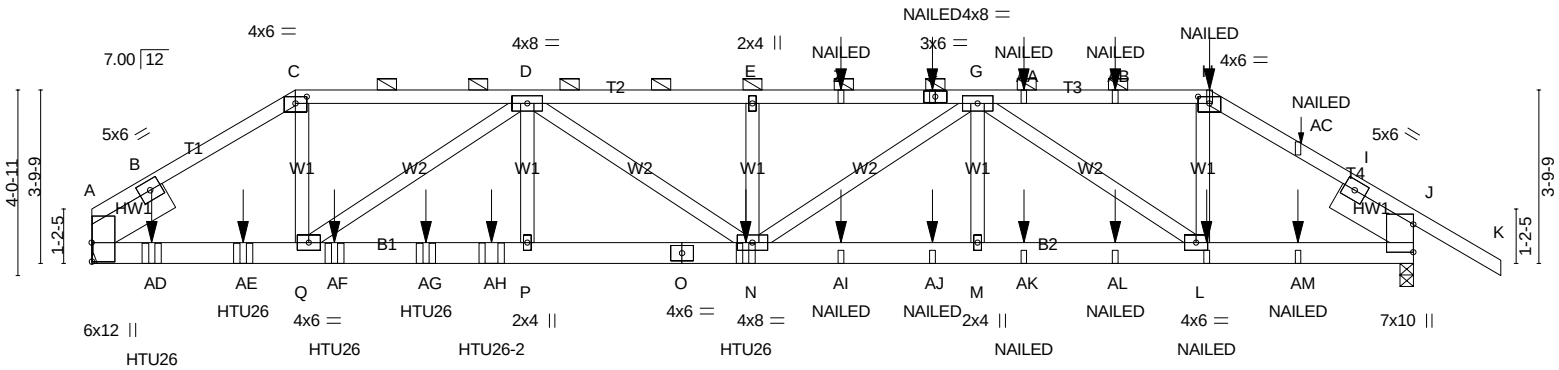
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	E01	Hip Girder	1	2	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:18 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-RPTzOuIE4hccm3QH3wz0YlfiYu?8BX8KtPIROVyFhcN

4-5-8	9-6-6	14-5-8	19-4-10	24-5-8	28-11-0	30-10-0
4-5-8	5-0-14	4-11-2	4-11-2	5-0-14	4-5-8	1-11-0

Scale = 1:50.4



4-5-8	9-6-6	14-5-8	19-4-10	24-5-8	28-11-0
4-5-8	5-0-14	4-11-2	4-11-2	5-0-14	4-5-8

Plate Offsets (X,Y)-- [A:0-5-0,0-0-1], [C:0-3-0,0-1-12], [H:0-3-0,0-1-12]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	0.21	N	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.29	N	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.36	Horz(CT)	0.07	J	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 369 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.1 *Except*
B2: 2x6 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-6 oc purlins, except 2-0-0 oc purlins (5-1-6 max.): C-H.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) A=3418/Mechanical, J=2213/0-3-8 (min. 0-1-8)
Max Horz A=-112(LC 6)
Max UpliftA=-1433(LC 5), J=-980(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1920/880, B-C=-4359/1881, C-D=-3728/1648, D-E=-5610/2449, E-Z=-5610/2449, F-Z=-5610/2449, F-G=-5610/2449, G-AA=-2386/1194, AA-AB=-2386/1194, H-AB=-2386/1194, H-AC=-2785/1358, I-AC=-2822/1352, I-J=-1010/540
BOT CHORD A-AD=-1604/3638, AD-AE=-1604/3638, Q-AE=-1604/3638, Q-AF=-2578/5814, AF-AG=-2578/5814, AG-AH=-2578/5814, P-AH=-2578/5814, O-P=-2578/5814, N-O=-2578/5814, N-AI=-2128/4566, AI-AJ=-2128/4566, M-AJ=-2128/4566, M-AK=-2128/4566, AK-AL=-2128/4566, L-AL=-2128/4566, L-AM=-1093/2334, J-AM=-1093/2334
WEBS C-Q=-899/2116, D-Q=-2575/1212, D-P=-527/1240, D-N=-261/221, E-N=-286/219, G-N=-384/1279, G-M=-82/442, G-L=-2664/1233, H-L=-513/1242

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=1433, J=980.
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.

Continued on page 2

NOTES-

12) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 7-0-0 oc max. starting at 1-3-12 from the left end to 14-3-12 to connect truss(es) A05 (1 ply 2x6 SP), A04 (1 ply 2x6 SP), A03 (1 ply 2x6 SP), A02 (1 ply 2x6 SP), JE4 (1 ply 2x6 SP) to front face of bottom chord.
13) Use Simpson Strong-Tie HTU26-2 (20-10d Girder, 14-10d Truss, Single Ply Girder) or equivalent at 8-9-0 from the left end to connect truss(es) A01 (2 ply 2x6 SP) to front face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.
15) "NAILED" indicates 3-10d Nails (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

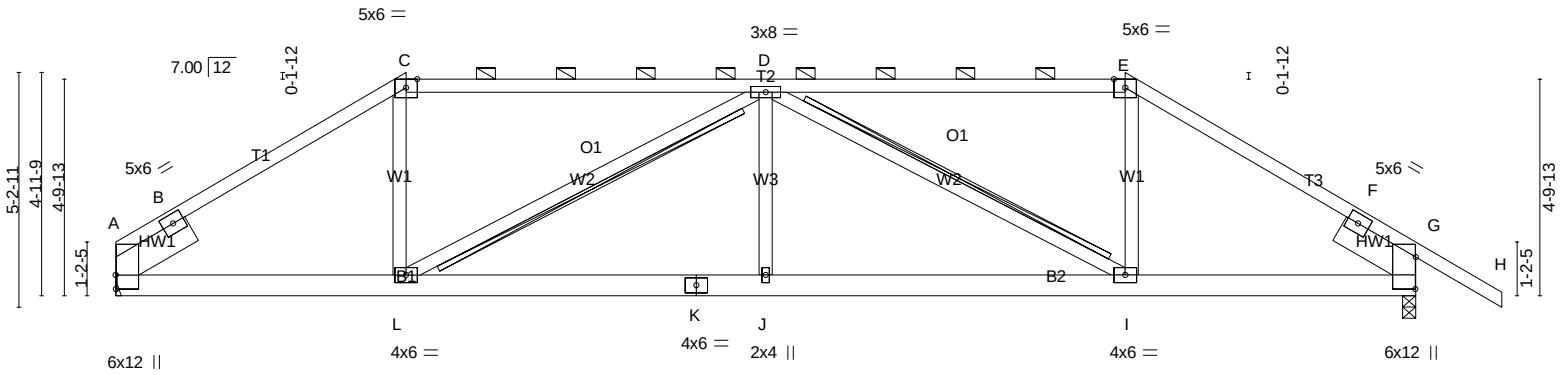
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: A-C=-60, C-H=-60, H-K=-60, R-V=-20
   Concentrated Loads (lb)
      Vert: F=-37(F) H=-37(F) N=-385(F) L=-23(F) Z=-37(F) AA=-37(F) AB=-37(F) AD=-460(F) AE=-416(F) AF=-419(F) AG=-425(F) AH=-733(F) AI=-23(F) AJ=-23(F) AK=-23(F) AL=-23(F) AM=-62(F)

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	E02	Hip	2	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:19 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-vb1McEJsr?kTOC?UdeUF5zCq6HJywyTT631_wxyFhcM

6-5-8	14-5-8	22-5-8	28-11-0	30-10-0
6-5-8	8-0-0	8-0-0	6-5-8	1-11-0

Scale = 1:51.3



6-5-8	14-5-8	22-5-8	28-11-0
6-5-8	8-0-0	8-0-0	6-5-8

Plate Offsets (X,Y)-- [A:0-3-12,0-0-1], [G:0-8-9,0-0-1]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.10	J-L	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.23	I-J	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.07	G	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.13	I-J	>999	240	Weight: 174 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (2-2-0 max.): C-E.
BOT CHORD	Rigid ceiling directly applied or 9-6-13 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - D-L, D-I Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

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

REACTIONS. (lb/size) A=1153/Mechanical, G=1275/0-3-8 (min. 0-1-8)
Max Horz A=-148(LC 8)
Max UpliftA=-226(LC 9), G=-267(LC 13)

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

TOP CHORD	A-B=-569/291, B-C=-1573/584, C-D=-1278/562, D-E=-1259/555, E-F=-1553/576, F-G=-537/290
BOT CHORD	A-L=-357/1290, K-L=-592/2001, J-K=-592/2001, I-J=-592/2001, G-I=-328/1271
WEBS	C-L=-51/473, D-L=-902/397, D-J=0/386, D-I=-913/397, E-I=-48/470

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=226, G=267.
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.
10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

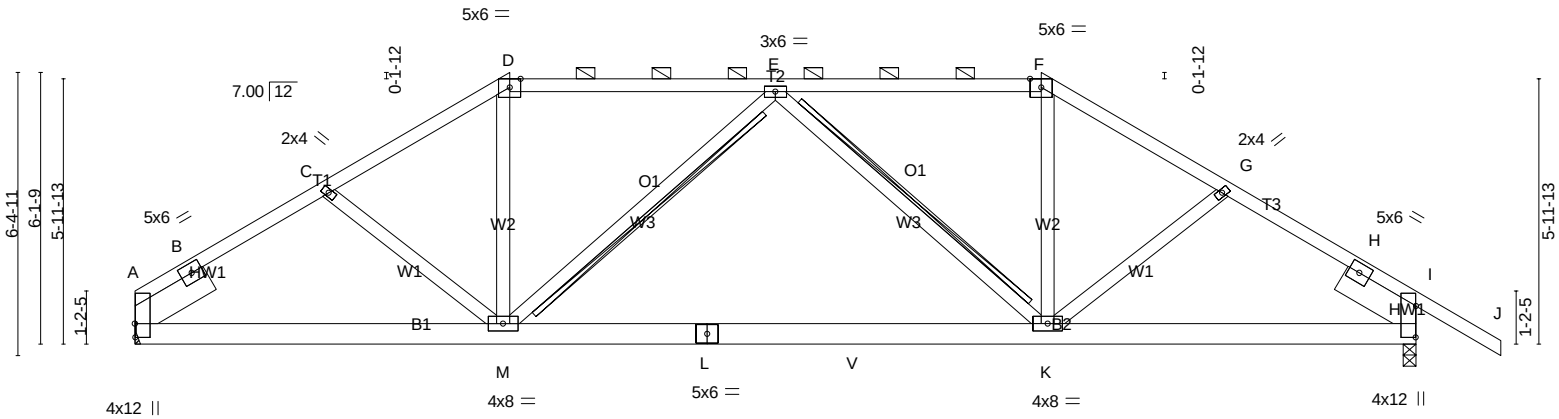
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	E03	Hip	2	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:20 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-OnbkpaKUcJsK0MagBL?UeAl17hhxfUbdKjnXSNyFhcL

4-4-8	8-5-8	14-5-8	20-5-8	24-6-8	28-11-0	30-10-0
4-4-8	4-1-0	6-0-0	6-0-0	4-1-0	4-4-8	1-11-0

Scale = 1:52.0



8-5-8	20-5-8	28-11-0
8-5-8	12-0-0	8-5-8

Plate Offsets (X,Y)-- [A:0-3-12,0-0-1], [I:0-8-9,0-0-1]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.21	K-M	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.44	K-M	>787	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.07	I	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.10	K-M	>999	240	Weight: 185 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (4-9-4 max.): D-F.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	T-Brace: 2x4 SPF No.2 - E-M, E-K Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

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

REACTIONS. (lb/size) A=1153/Mechanical, I=1275/0-3-8 (min. 0-1-8)
Max Horz A=-187(LC 10)
Max UpliftA=-231(LC 12), I=-296(LC 13)

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

TOP CHORD	B-C=-1595/592, C-D=-1480/564, D-E=-1251/538, E-F=-1240/534, F-G=-1466/558, G-H=-1576/584
BOT CHORD	A-M=-368/1289, L-M=-409/1475, L-V=-409/1475, K-V=-409/1475, I-K=-358/1266
WEBS	D-M=-84/448, E-M=-381/300, E-K=-391/300, F-K=-81/444

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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 = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=231, I=296.
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.
10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	E04	Hip	2	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:21 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-s_961wK6Nc_BdW9sk3WjAOHBV52aOwLmZNW5_qyFhcK

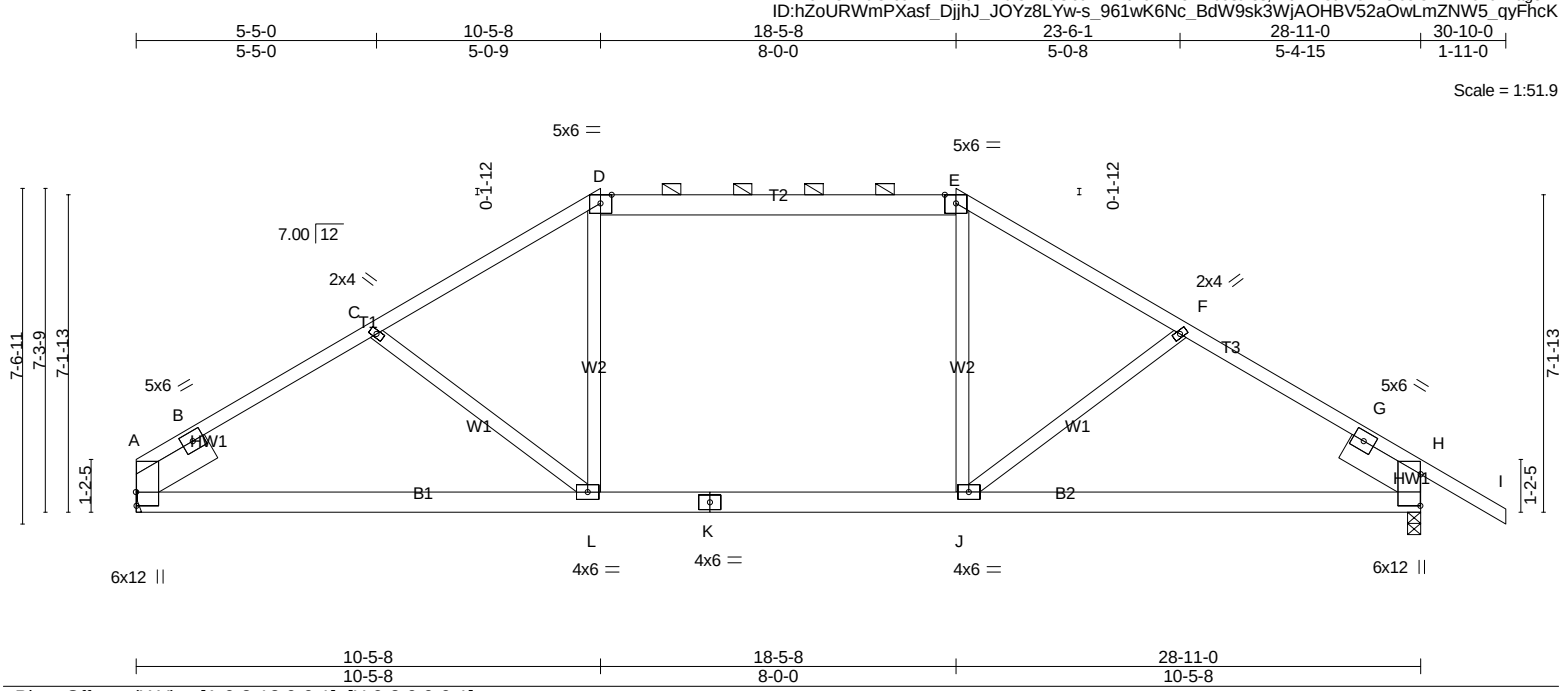


Plate Offsets (X,Y)-- [A:0-3-12,0-0-1], [H:0-8-9,0-0-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.25	L-O	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.31	L-O	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.08	H	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.30	L-O	>999	240	Weight: 175 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
T2: 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (5-9-6 max.): D-E.
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) A=1153/Mechanical, H=1275/0-3-8 (min. 0-1-8)
Max Horz A=-226(LC 10)
Max UpliftA=-256(LC 12), H=-321(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-519/69, B-C=-1590/602, C-D=-1436/554, D-E=-1206/543, E-F=-1433/553, F-G=-1581/598, G-H=-462/56
BOT CHORD A-L=-363/1361, K-L=-199/1206, J-K=-199/1206, H-J=-357/1287
WEBS C-L=-277/294, D-L=-2/373, E-J=0/367, F-J=-277/287

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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 = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=256, H=321.
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	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	E05	Hip	2	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:22 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-KAjUEGLk8w62Fgj3Im2yjbqMxVOS7NTwo1GeXGyFhcJ

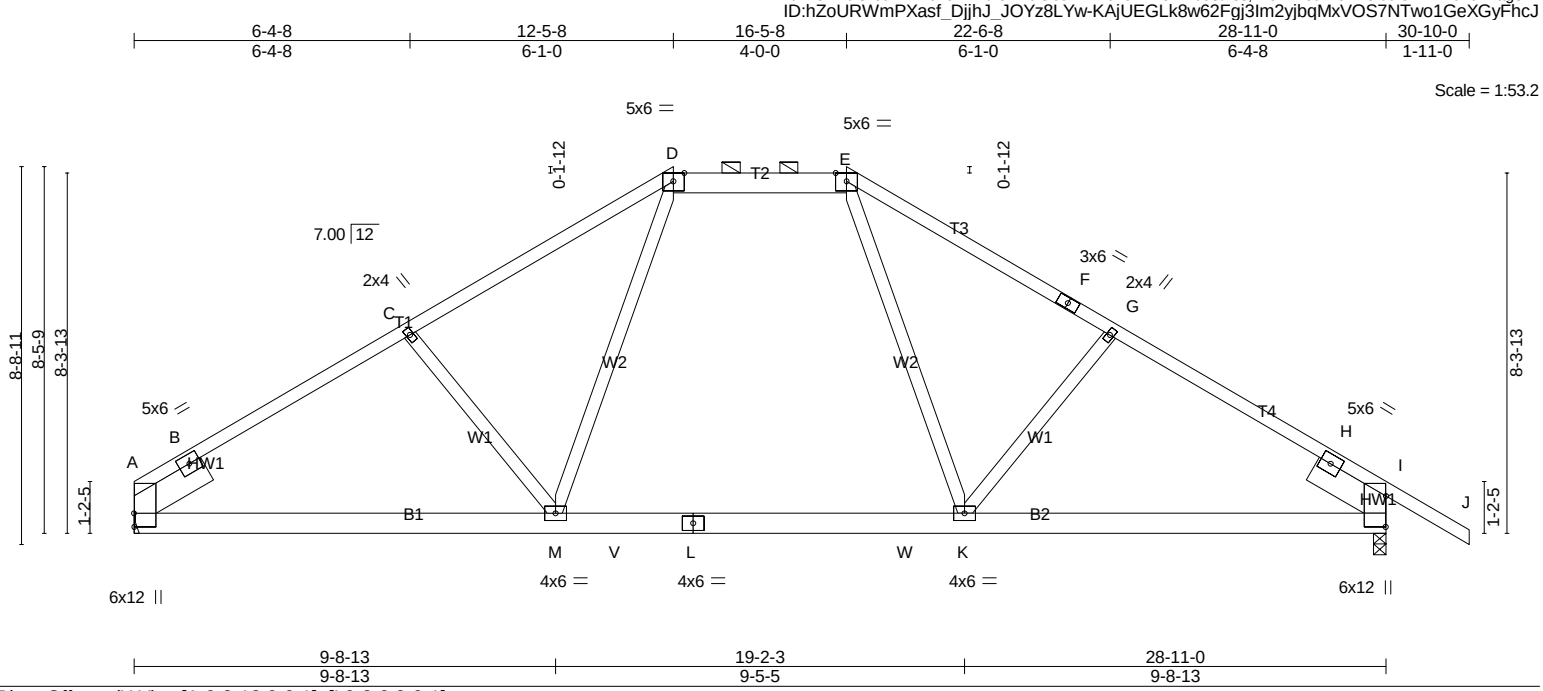


Plate Offsets (X,Y)-- [A:0-3-12,0-0-1], [I:0-8-9,0-0-1]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.24	M-P	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.34	K-M	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.08	I	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.27	M-P	>999	240	Weight: 176 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
T2: 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-11-14 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): D-E.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) A=1153/Mechanical, I=1275/0-3-8 (min. 0-1-8)
Max Horz A=-265(LC 10)
Max UpliftA=-276(LC 12), I=-341(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-474/33, B-C=-1586/580, C-D=-1418/580, D-E=-1125/539, E-F=-1387/576, F-G=-1420/544, G-H=-1574/576, H-I=-420/17
BOT CHORD A-M=-361/1436, M-V=-138/1058, L-V=-138/1058, L-W=-138/1058, K-W=-138/1058, I-K=-331/1280
WEBS C-M=-354/348, D-M=-106/503, E-K=-99/487, G-K=-352/343

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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 = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=276, I=341.
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	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	E06	Common	3	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:23 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-oMHsScMMvEEvtqIFsUZBFpNXQvjyslh30g?B3iyFhcI

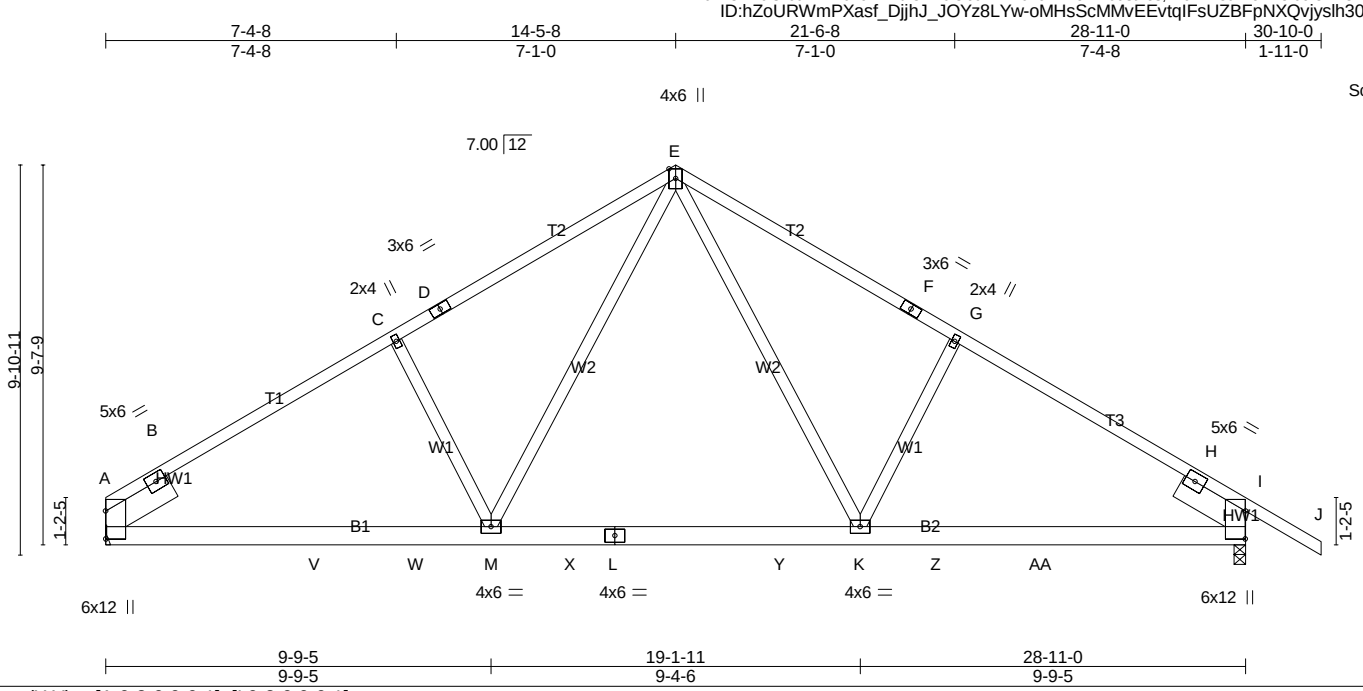


Plate Offsets (X,Y)-- [A:0-8-9,0-0-1], [I:0-8-9,0-0-1]

LOADING (psf)		**SPACING-** 2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL 1.15	TC	0.95	Vert(LL)	-0.18	K-M	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC	0.72	Vert(CT)	-0.31	K-M	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB	0.54	Horz(CT)	0.07	I	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.10	K-M	>999	240	Weight: 179 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied.
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) A=1153/Mechanical, I=1275/0-3-8 (min. 0-1-10)
Max Horz A=-306(LC 10)
Max Uplift A=-292(LC 12), I=-357(LC 13)
Max Grav A=1241(LC 19), I=1359(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-481/0, B-C=-1689/558, C-D=-1569/588, D-E=-1516/627, E-F=-1518/622, F-G=-1556/583, G-H=-1676/554, H-I=-443/0
BOT CHORD A-V=-400/1589, V-W=-400/1589, M-W=-400/1589, M-X=-118/1075, L-X=-118/1075, L-Y=-118/1075, K-Y=-118/1075, K-Z=-299/1355, Z-AA=-299/1355, I-AA=-299/1355
WEBS E-K=-253/723, G-K=-444/372, E-M=-261/743, C-M=-443/375

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for 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 BCDL = 10.0psf.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=292, I=357.
7) 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.

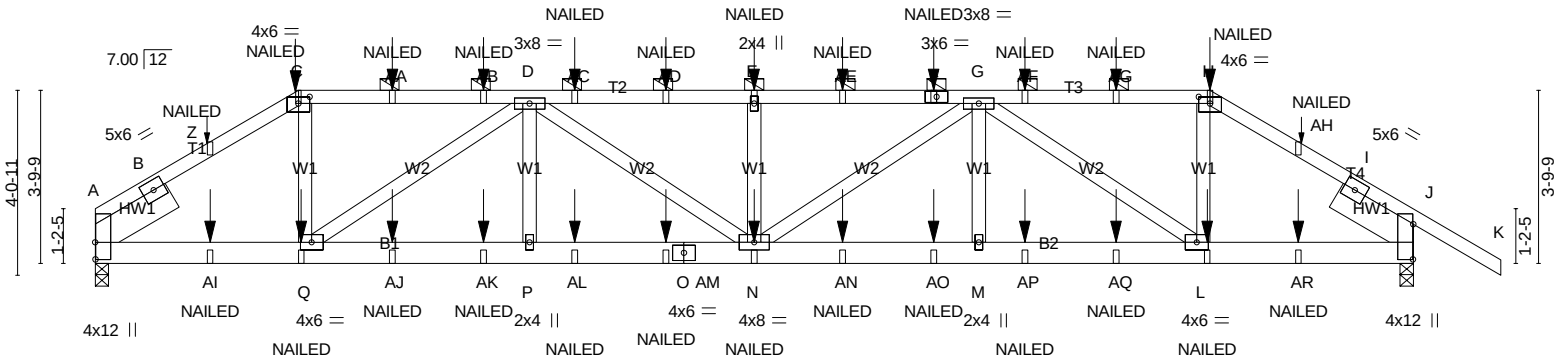
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	E07	Hip Girder	1	2	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:25 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-klOdsIOdQrUd67SezubfLES_piQ5KkpMU_UI7byFhcG

4-5-8	9-6-6	14-5-8	19-4-10	24-5-8	28-11-0	30-10-0
4-5-8	5-0-14	4-11-2	4-11-2	5-0-14	4-5-8	1-11-0

Scale = 1:50.5



4-5-8	9-6-6	14-5-8	19-4-10	24-5-8	28-11-0
4-5-8	5-0-14	4-11-2	4-11-2	5-0-14	4-5-8

Plate Offsets (X,Y)-- [A:0-4-8,0-0-1], [C:0-3-0,0-1-12], [H:0-3-0,0-1-12], [J:0-9-5,0-0-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	0.17	N	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.19	N	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.05	J	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 369 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12

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

REACTIONS. (lb/size) A=1607/0-3-8 (min. 0-1-8), J=1873/0-3-8 (min. 0-1-8)
Max Horz A=-112(LC 6)
Max Uplift A=-874(LC 5), J=-882(LC 9)
Max Grav A=1616(LC 36), J=1873(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-879/490, B-Z=-2177/1231, C-Z=-2147/1239, C-AA=-1830/1090, AA-AB=-1830/1090, D-AB=-1830/1090, D-AC=-3660/2089, AC-AD=-3660/2089, E-AD=-3660/2089, E-AE=-3660/2089, F-AE=-3660/2089, F-G=-3660/2089, G-AF=-1962/1057, AF-AG=-1962/1057, H-AG=-1962/1057, H-AH=-2295/1202, I-AH=-2331/1193, I-J=-911/499
BOT CHORD A-AI=-1066/1903, Q-AI=-1066/1903, Q-AJ=-1901/3380, AJ-AK=-1901/3380, P-AK=-1901/3380, P-AL=-1901/3380, AL-AM=-1901/3380, O-AM=-1901/3380, N-O=-1901/3380, N-AN=-1846/3488, AN-AO=-1846/3488, M-AO=-1846/3488, M-AP=-1846/3488, AP-AQ=-1846/3488, L-AQ=-1846/3488, L-AR=-957/1969, J-AR=-957/1969
WEBS C-Q=-438/896, D-Q=-1790/1056, D-P=-57/390, D-N=-260/501, E-N=-342/309, G-N=-289/344, G-M=0/426, G-L=-1802/1064, H-L=-352/906

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=874, J=882.
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.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) "NAILED" indicates 3-10d Nails (0.148" x 3") toe-nails per NDS guidelines.

Continued on page 2

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: A-C=-60, C-H=-60, H-K=-60, R-V=-20
   Concentrated Loads (lb)
      Vert: C=-37(B) F=-37(B) H=-92(B) Q=-23(B) N=-23(B) E=-37(B) L=-55(B) AA=-37(B) AB=-37(B) AC=-37(B) AD=-37(B) AE=-37(B) AF=-92(B) AG=-92(B) AI=-62(B) AJ=-23(B) AK=-23(B) AL=-23(B) AM=-23(B) AN=-23(B) AO=-23(B) AP=-55(B) AQ=-55(B) AR=-62(B)

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	G01	HIP GIRDER	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:26 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-Cxy?4dOFB9cUkH1qXc6utR?BQ6sD3E9VjeEsg1yFhcF

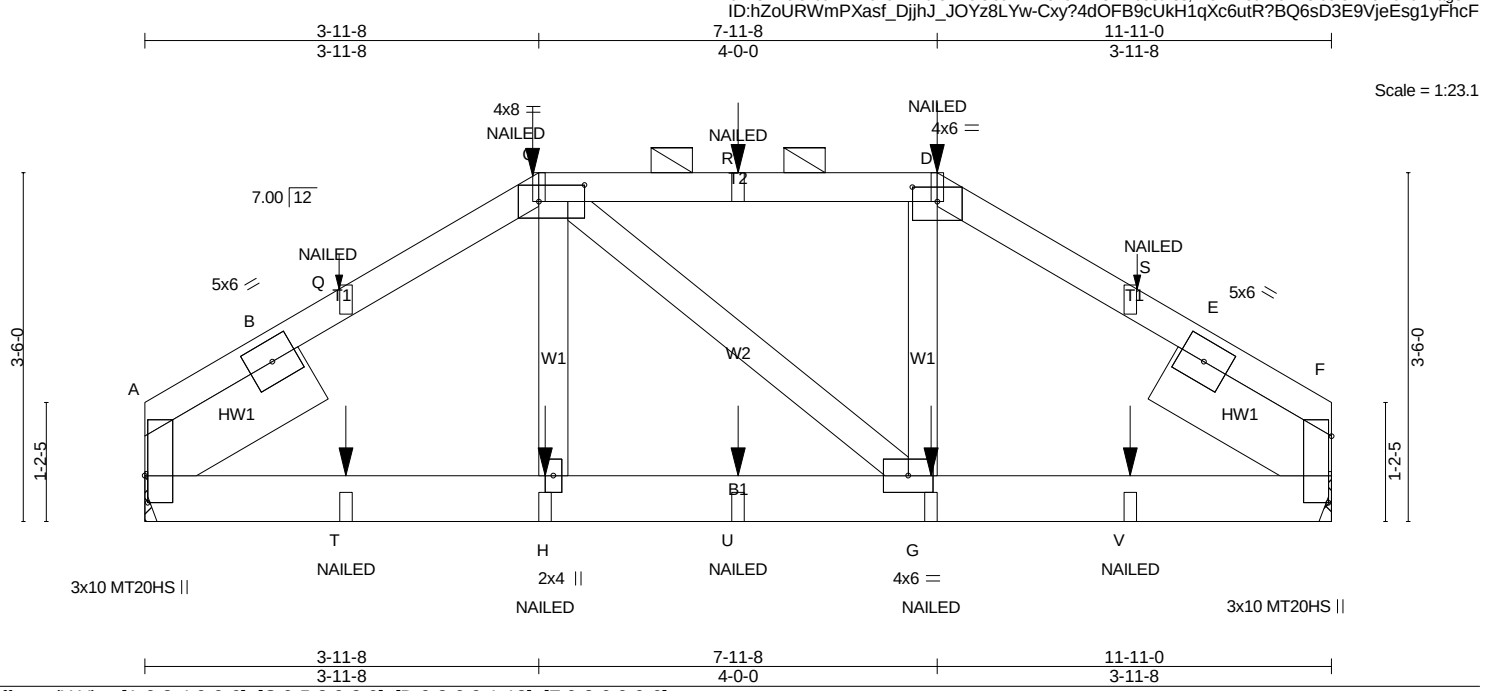


Plate Offsets (X,Y)-- [A:0-3-4,0-0-6], [C:0-5-8,0-2-0], [D:0-3-0,0-1-12], [F:0-8-0,0-0-6]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	0.02	G-H	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.03	G-H	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.01	F	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 75 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12

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

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

REACTIONS. (lb/size) A=562/Mechanical, F=562/Mechanical
Max Horz A=-78(LC 6)
Max Uplift A=-298(LC 8), F=-298(LC 9)
Max Grav A=566(LC 33), F=566(LC 34)

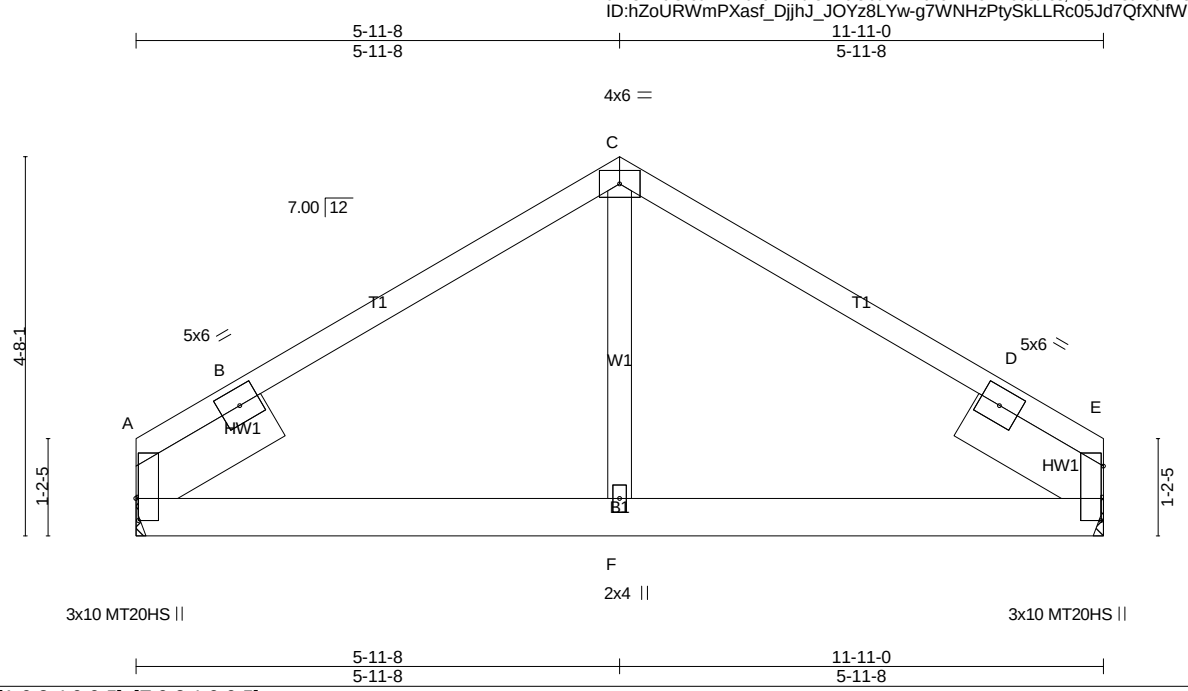
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-267/133, B-Q=-624/356, C-Q=-599/372, C-R=-525/355, D-R=-525/355, D-S=-598/371, E-S=-624/355, E-F=-268/134
BOT CHORD A-T=-316/546, H-T=-316/546, H-U=-317/552, G-U=-317/552, G-V=-272/512, F-V=-272/512

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=298, F=298.
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.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) "NAILED" indicates 3-10d Nails (0.148" x 3") toe-nails per NDS guidelines.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-C=-60, C-D=-60, D-F=-60, I-M=-20
Concentrated Loads (lb)
Vert: C=-18(B) D=-18(B) H=-18(B) G=-18(B) R=-18(B) T=-30(B) U=-18(B) V=-30(B)

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	G02	Common	2	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:27 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-g7WNHzPtySkLLRc05Jd7QfXNfWDDogefxIzPCTyFhcE



Scale = 1:28.4

Plate Offsets (X,Y)-- [A:0-3-4,0-0-5], [E:0-8-1,0-0-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.02	F-I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.02	F-I	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	-0.02	A	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.02	F-I	>999	240	Weight: 67 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP DSS 1-11-12, Right 2x8 SP DSS 1-11-12

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.

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

REACTIONS. (lb/size) A=477/Mechanical, E=477/Mechanical
Max Horz A=-116(LC 8)
Max UpliftA=-117(LC 12), E=-117(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-332/214, B-C=-497/229, C-D=-497/229, D-E=-333/214
BOT CHORD A-F=-77/374, E-F=-77/374

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=117, E=117.
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.

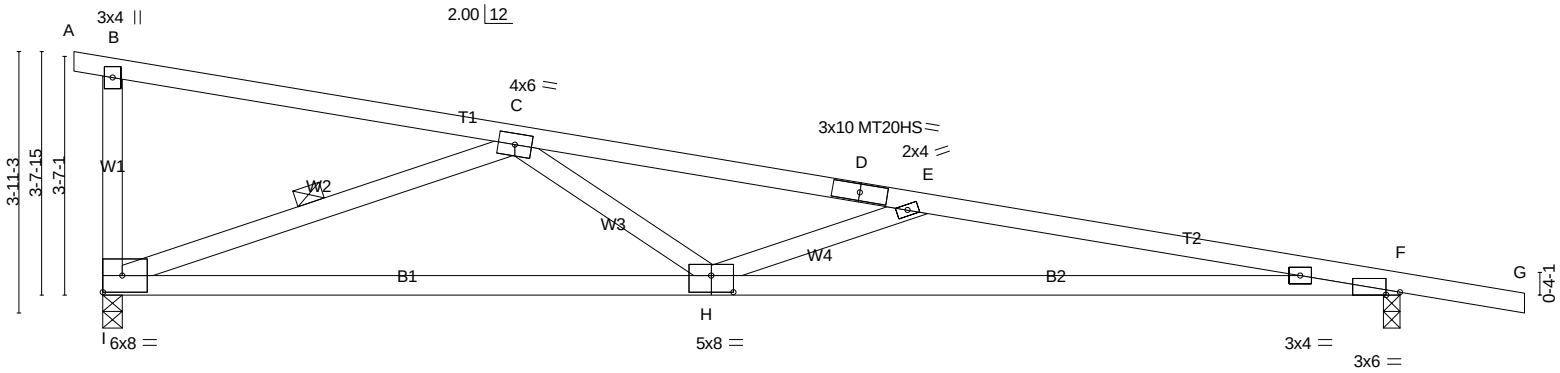
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	H01	Roof Special	8	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:28 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-9K4lVJQVjmsBzbBDf18Mys4QkwNBX0?oAyjykwyFhcD

-0-5-3	6-2-5	12-1-3	19-6-0	21-4-8
0-5-3	6-2-5	5-10-13	7-4-13	1-10-8

Scale = 1:34.6



9-1-12	19-6-0
9-1-12	10-4-4

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

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	0.59	H-L	>395	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.46	H-L	>508	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.05	F	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 86 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
T2: 2x4 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
B2: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-11-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt C-I

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

REACTIONS. (lb/size) I=804/0-3-8 (min. 0-1-8), F=892/0-3-0 (min. 0-1-8)
Max Horz I=-194(LC 9)
Max UpliftI=-344(LC 8), F=-370(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-D=-2139/2746, D-E=-2170/2735, E-F=-2906/3371
BOT CHORD H-I=-1541/1465, F-H=-3277/2853
WEBS C-I=-1510/1787, C-H=-1318/893, E-H=-794/737

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) All plates are MT20 plates unless otherwise indicated.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) I=344, F=370.
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.

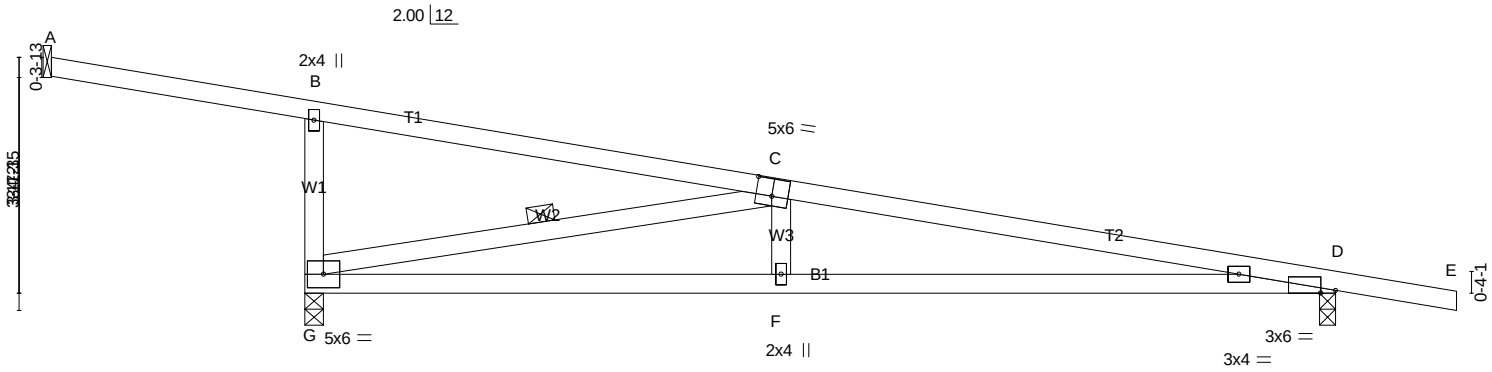
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	H02	Roof Special	9	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:29 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-dWe8ifR7U4_2blmPCkgbV4cbBJm_GS7yPcSWGMyFhcC

-3-11-3 | 7-4-12 | 16-0-0 | 17-10-8
3-11-3 | 7-4-12 | 8-7-4 | 1-10-8

Scale = 1:35.8



-3-9-11 | 7-4-12 | 16-0-0
3-9-11 | 7-4-12 | 8-7-4

Plate Offsets (X,Y)-- [C:0-3-0,0-3-4], [D:0-2-12,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.18	F-J	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.40	F-J	>478	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.06	A	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.24	F-J	>785	240	Weight: 73 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-8-9 oc bracing.
WEBS 1 Row at midpt C-G

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

REACTIONS. (lb/size) G=813/0-3-8 (min. 0-1-8), A=69/Mechanical, D=740/0-3-0 (min. 0-1-8)
Max Horz G=-194(LC 9)
Max UpliftG=-355(LC 13), A=-51(LC 13), D=-311(LC 9)

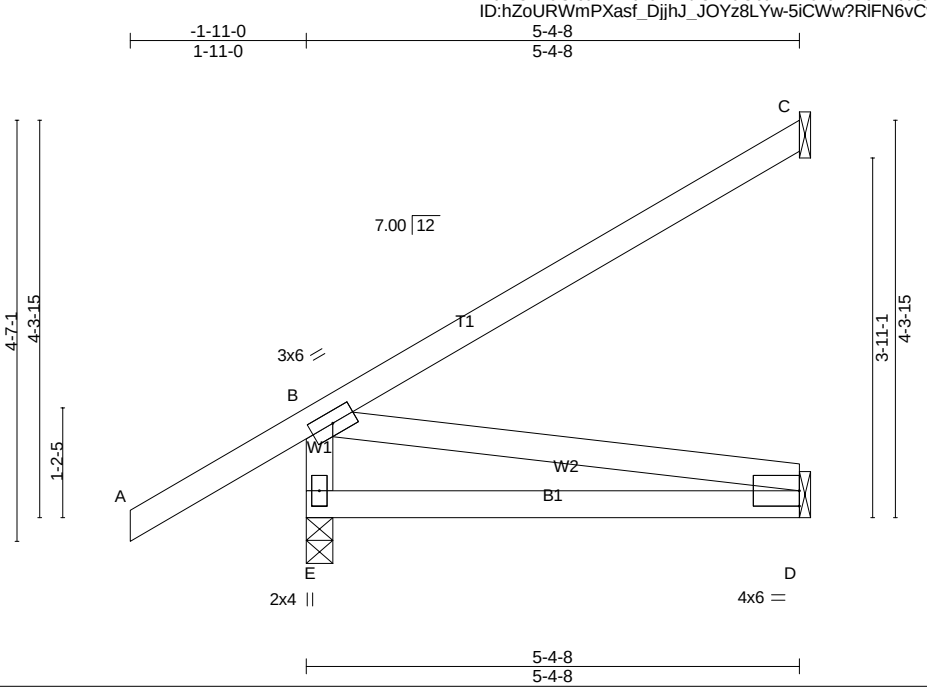
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-G=-374/302, C-D=-1902/684
BOT CHORD F-G=-610/1838, D-F=-605/1855
WEBS C-G=-1854/837, C-F=0/356

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A except (jt=lb) G=355 , D=311.
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	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JA1	Jack-Open	25	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:30 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-5iCWw?RlFN6vCvLbmSBq2H9pEjCV?1y5eGC3poyFhcB



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.04	D-E	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.09	D-E	>700	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	-0.00	C	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.00	E	****	240	Weight: 30 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
W2: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-8 oc purlins, except end verticals.
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) E=356/0-3-8 (min. 0-1-8), C=130/Mechanical, D=52/Mechanical
Max Horz E=194(LC 12)
Max Uplift E=-76(LC 12), C=-130(LC 12), D=-6(LC 12)
Max Grav E=356(LC 1), C=153(LC 19), D=105(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-E=-303/207
BOT CHORD D-E=-258/204
WEBS B-D=-207/263

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E, D except (jt=lb) C=130.
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	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JA2	Jack-Closed Girder	2	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:31 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-Zvlu7LSN0hEmq3wnK9i3aVi_j7RbkV1EswxdLFyFhcA

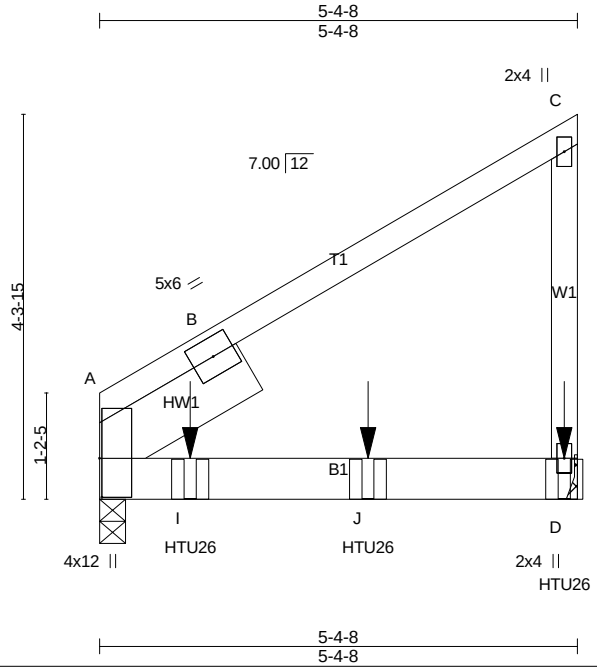


Plate Offsets (X,Y)-- [A:0-5-4,0-0-5]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	0.10	D-G	>634	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.13	D-G	>499	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.06	A	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP							Weight: 33 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x8 SP DSS 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-8-1 oc bracing.

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

REACTIONS. (lb/size) A=838/0-3-8 (min. 0-1-8), D=1043/Mechanical
Max Horz A=159(LC 8)
Max UpliftA=-307(LC 8), D=-404(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-709/444

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=307, D=404.
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.
7) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-2-8 oc max. starting at 1-0-4 from the left end to 5-2-12 to connect truss(es) G01 (1 ply 2x6 SP), G02 (1 ply 2x6 SP) to back face of bottom chord.
8) Fill all nail holes where hanger is in contact with lumber.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-C=-60, D-E=-20
Concentrated Loads (lb)
Vert: D=-465(B) I=-542(B) J=-457(B)

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JA3	Jack-Open Girder	2	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:32 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-15JGKhT0n?MdSCU_usDI7iEDSXr0Tx1O5ahAthyFhc9

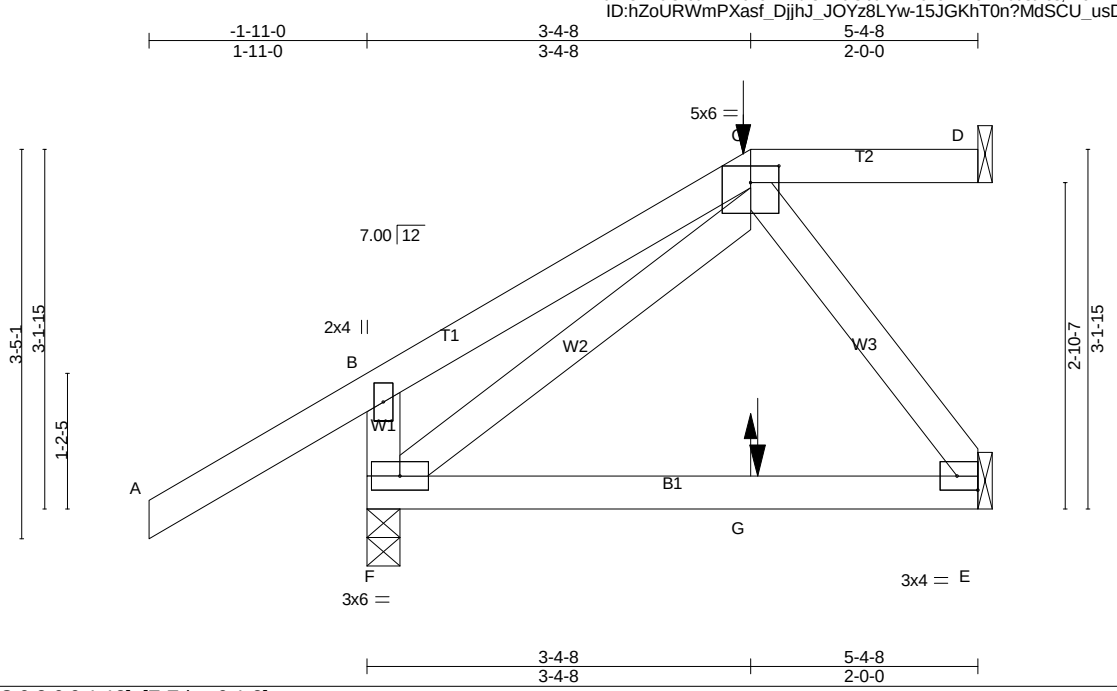


Plate Offsets (X,Y)-- [C:0-3-0,0-1-12], [E:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.06	E-F	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.11	E-F	>578	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.08	Horz(CT)	-0.00	D	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.03	E-F	>999	240	Weight: 32 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-8 oc purlins, except end verticals, and 2-0-0 oc purlins: C-D.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) F=362/0-3-8 (min. 0-1-8), D=58/Mechanical, E=132/Mechanical
Max Horz F=136(LC 8)
Max Uplift F=-174(LC 8), D=-39(LC 4), E=-154(LC 8)
Max Grav F=376(LC 33), D=58(LC 1), E=186(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-F=-286/220

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) F=174, E=154.
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.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 193 lb down and 217 lb up at 3-4-8 on top chord, and 60 lb down and 42 lb up at 3-4-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-60, B-C=-60, C-D=-60, E-F=-20
Concentrated Loads (lb)
Vert: C=-1(F) G=-12(F)

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JA4	Jack-Open	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:33 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-VHteY1UeYIUU4M3ARakXfwnODxD8COfXKEQjP7yFhc8

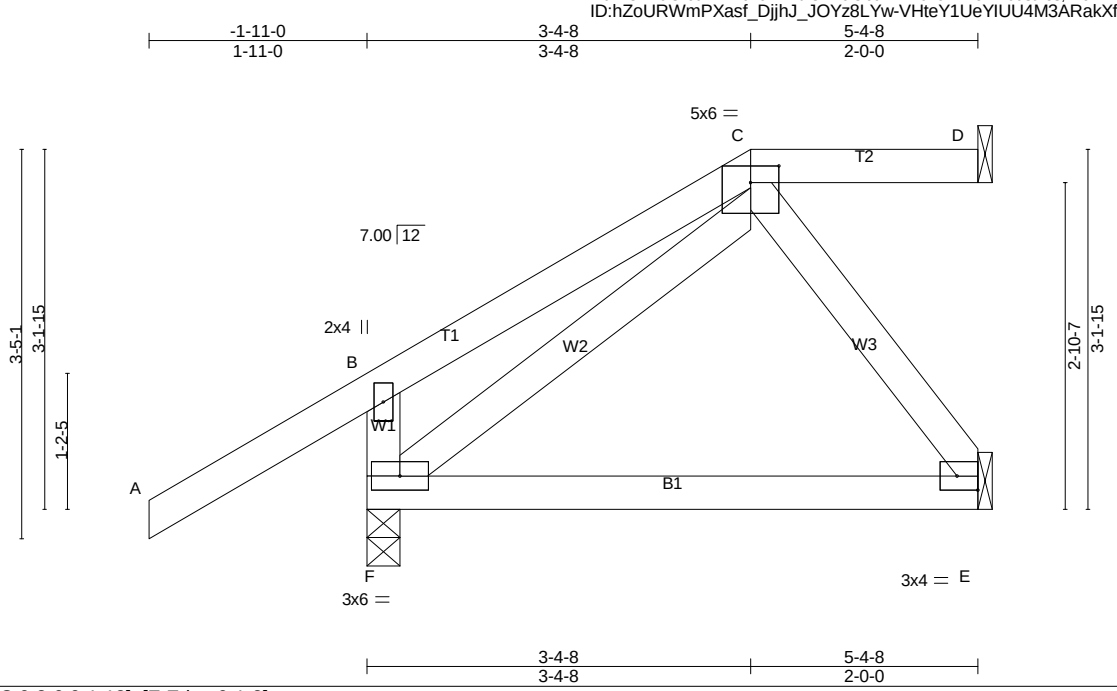


Plate Offsets (X,Y)-- [C:0-3-0,0-1-12], [E:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.04	E-F	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.09	E-F	>700	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.00	D	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.00	F	****	240	Weight: 32 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-8 oc purlins, except end verticals, and 2-0-0 oc purlins: C-D.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) F=357/0-3-8 (min. 0-1-8), D=58/Mechanical, E=124/Mechanical
Max Horz F=136(LC 12)
Max Uplift F=-107(LC 12), D=-39(LC 8), E=-45(LC 12)
Max Grav F=357(LC 1), D=58(LC 1), E=128(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-F=-335/367

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D, E except (jt=lb) F=107.
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	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JA5	Jack-Open	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:33 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-VHteY1UeYIUU4M3ARakXfwnOAxD9COyXKEQjP7yFhc8

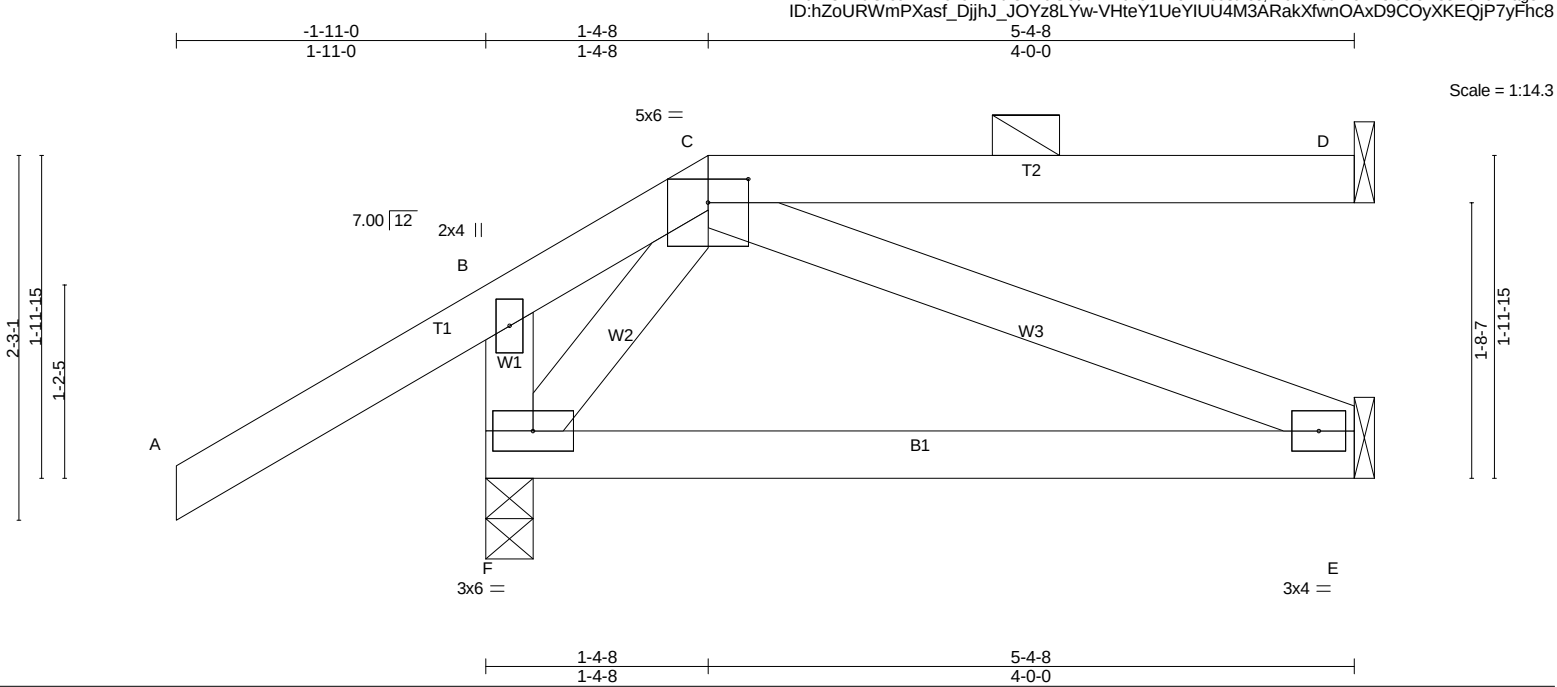


Plate Offsets (X,Y)-- [C:0-3-0,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.04	E-F	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.09	E-F	>700	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.00	D	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.00	F	****	240	Weight: 30 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-8 oc purlins, except end verticals, and 2-0-0 oc purlins: C-D.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) F=356/0-3-8 (min. 0-1-8), D=118/Mechanical, E=64/Mechanical
Max Horz F=75(LC 9)
Max Uplift F=-107(LC 12), D=-79(LC 8)
Max Grav F=356(LC 1), D=118(LC 1), E=109(LC 3)

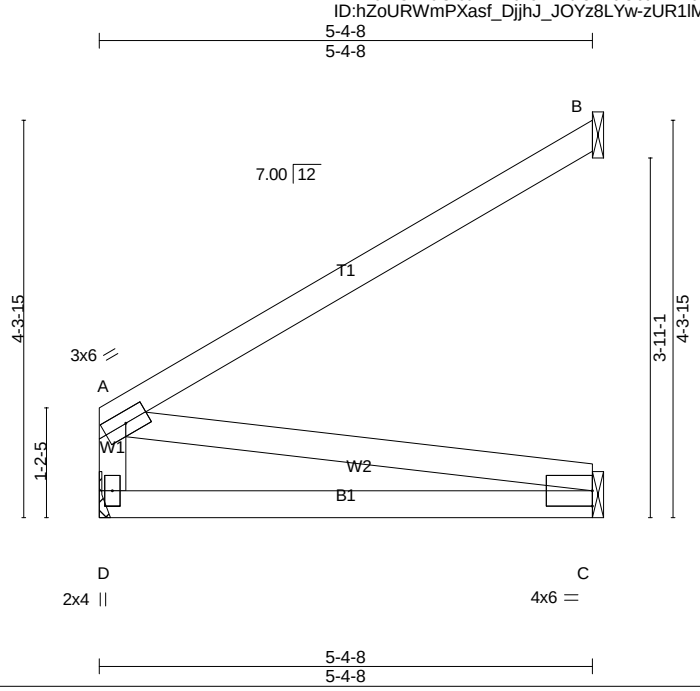
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-F=-331/410

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-11-0 to 5-3-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) F=107.
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	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JA6	Jack-Open	3	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:34 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-zUR1lMVGJcdLhWeM?HFmC7KW5KZQxqMhYuAHyZyFhc7



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.04	C-D	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.09	C-D	>700	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	-0.00	B	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.00	D	****	240	Weight: 26 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
W2: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-8 oc purlins, except end verticals.
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) D=207/Mechanical, B=155/Mechanical, C=52/Mechanical
Max Horz D=140(LC 12)
Max Uplift B=-150(LC 12)
Max Grav D=207(LC 1), B=178(LC 19), C=105(LC 3)

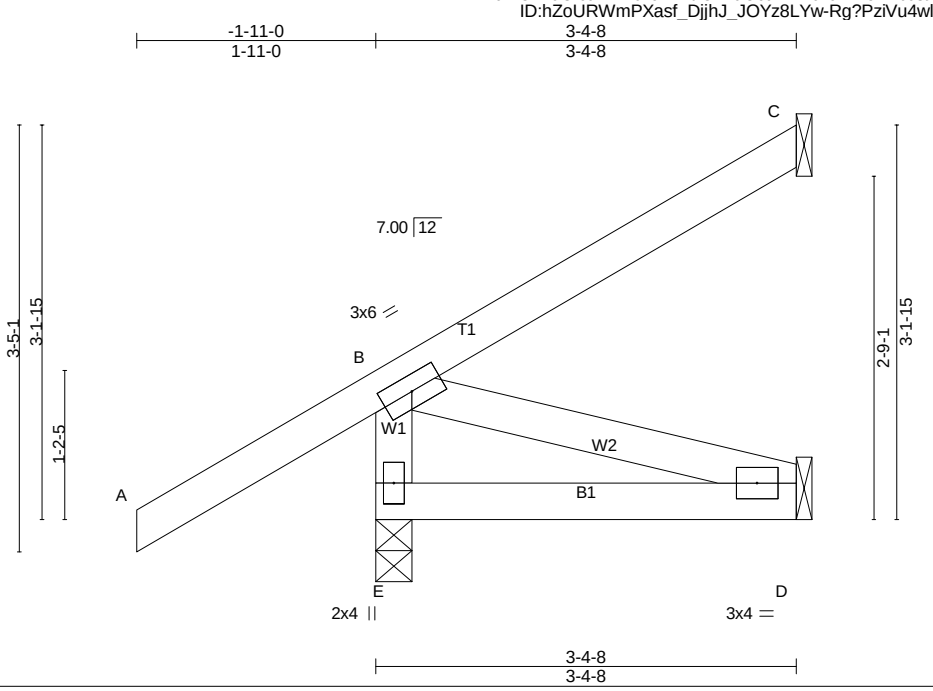
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=150.
7) 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	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JA7	Jack-Open	2	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:35 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-Rg?PziVu4wlCJgDZZ?m?lLsjhkz8gI6qnYvqU0yFhc6



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.01	D-E	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.01	D-E	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.00	C	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.00	E	****	240	Weight: 20 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
W2: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-8 oc purlins, except end verticals.
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) E=291/0-3-8 (min. 0-1-8), C=55/Mechanical, D=32/Mechanical
Max Horz E=133(LC 12)
Max Uplift E=-73(LC 12), C=-60(LC 12), D=-23(LC 12)
Max Grav E=291(LC 1), C=68(LC 19), D=65(LC 3)

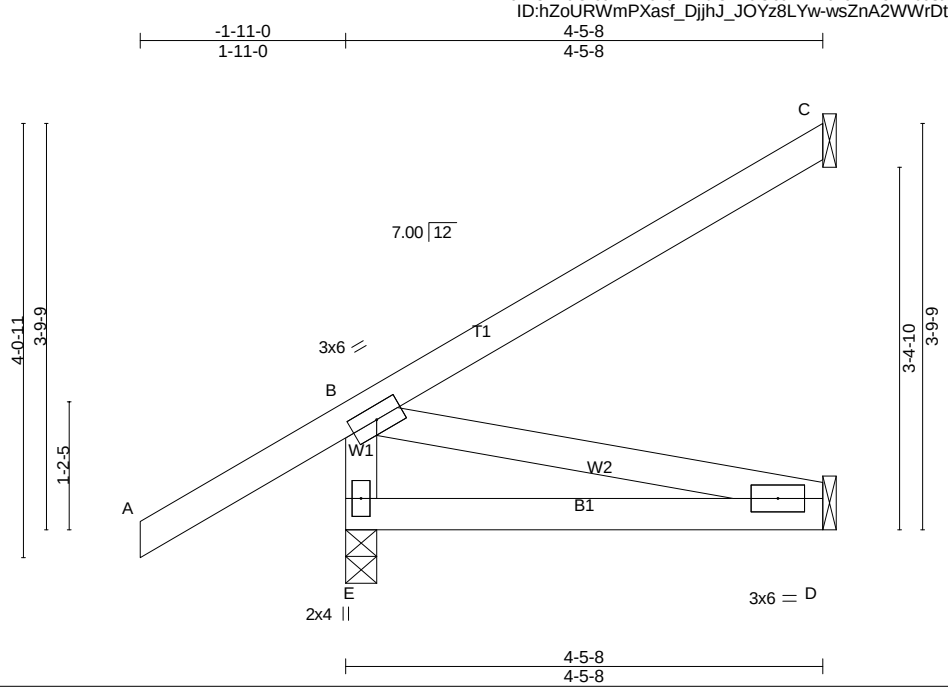
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-E=-259/199

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E, C, D.
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	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JE1	Jack-Open	13	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:36 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-wsZnA2WWrDt3xqol7iIEHYPtW8HkPk6z0CfN0SyFhc5



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.02	D-E	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.04	D-E	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	-0.00	C	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.00	E	****	240	Weight: 25 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
W2: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-8 oc purlins, except end verticals.
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) E=324/0-3-8 (min. 0-1-8), C=97/Mechanical, D=43/Mechanical
Max Horz E=166(LC 12)
Max Uplift E=-74(LC 12), C=-99(LC 12), D=-13(LC 12)
Max Grav E=324(LC 1), C=116(LC 19), D=86(LC 3)

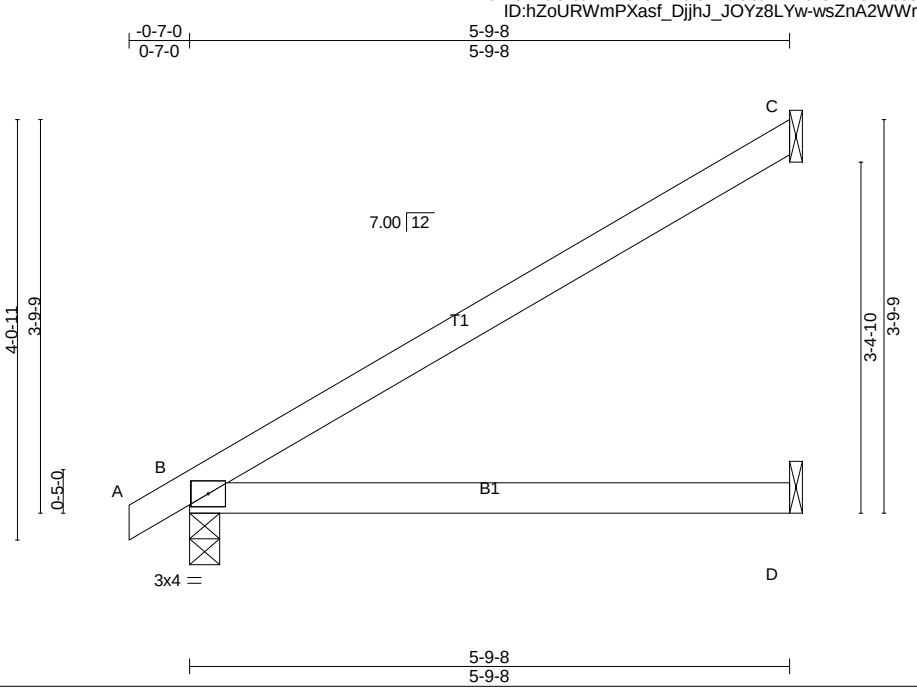
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-E=-281/202

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E, C, D.
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	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JE2	Jack-Open	3	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:36 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-wsZnA2WWrDt3xqol7ilEHYPrs8E9PlGz0CfN0SyFhc5



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.05	D-G	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.11	D-G	>605	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	C	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.09	D-G	>780	240	Weight: 20 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-8 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) C=152/Mechanical, B=266/0-3-8 (min. 0-1-8), D=75/Mechanical
Max Horz B=189(LC 12)
Max Uplift C=-136(LC 12), B=-47(LC 12)
Max Grav C=174(LC 19), B=266(LC 1), D=108(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B except (jt=lb) C=136.
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	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JE3	Jack-Open Girder	3	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:37 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-O379OOX8cX?wY_NxgQpTqmy3BYcH8Cm7FsOxZuyFhc4

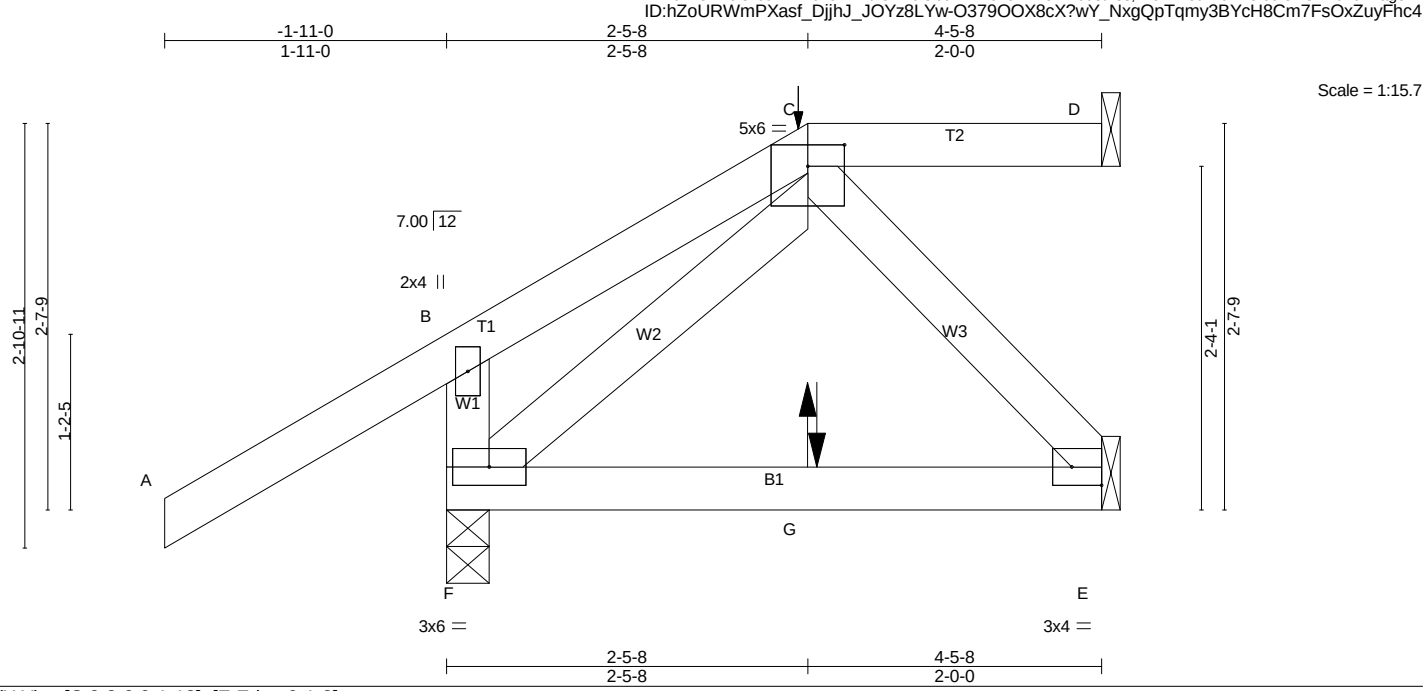


Plate Offsets (X,Y)-- [C:0-3-0,0-1-12], [E:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.02	E-F	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.04	E-F	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.05	Horz(CT)	-0.00	D	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.02	E-F	>999	240	Weight: 27 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-8 oc purlins, except end verticals, and 2-0-0 oc purlins: C-D.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) F=325/0-3-8 (min. 0-1-8), D=58/Mechanical, E=82/Mechanical
Max Horz F=108(LC 8)
Max Uplift F=-155(LC 8), D=-39(LC 4), E=-82(LC 8)
Max Grav F=341(LC 33), D=58(LC 1), E=125(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-F=-271/206

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D, E except (jt=lb) F=155.
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.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 158 lb down and 123 lb up at 2-5-8 on top chord, and 43 lb down and 47 lb up at 2-5-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JE4	Jack-Closed Girder	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:38 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-sFhXbkYmMr7nA7y8E7KiMzUFoyvctfmGTW8U5LyFhc3

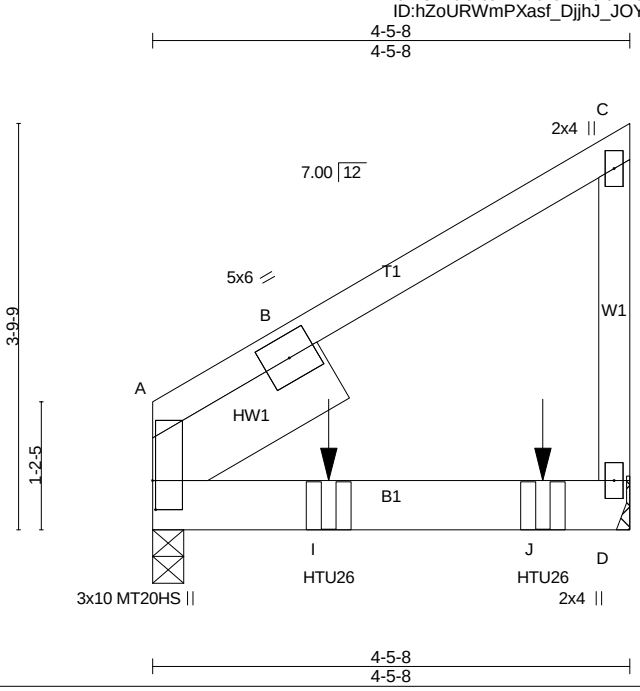


Plate Offsets (X,Y)-- [A:0-3-4,0-0-5]

LOADING (psf)		**SPACING-** 2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL 1.15	TC	0.30	Vert(LL)	-0.02	D-G	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC	0.39	Vert(CT)	-0.04	D-G	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr NO	WB	0.00	Horz(CT)	0.02	A	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-MP		Wind(LL)	0.02	D-G	>999	240	Weight: 29 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x8 SP DSS 1-11-12

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-8 oc purlins, except end verticals.
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) A=318/0-3-8 (min. 0-1-8), D=405/Mechanical
Max Horz A=157(LC 7)
Max UpliftD=-27(LC 8)

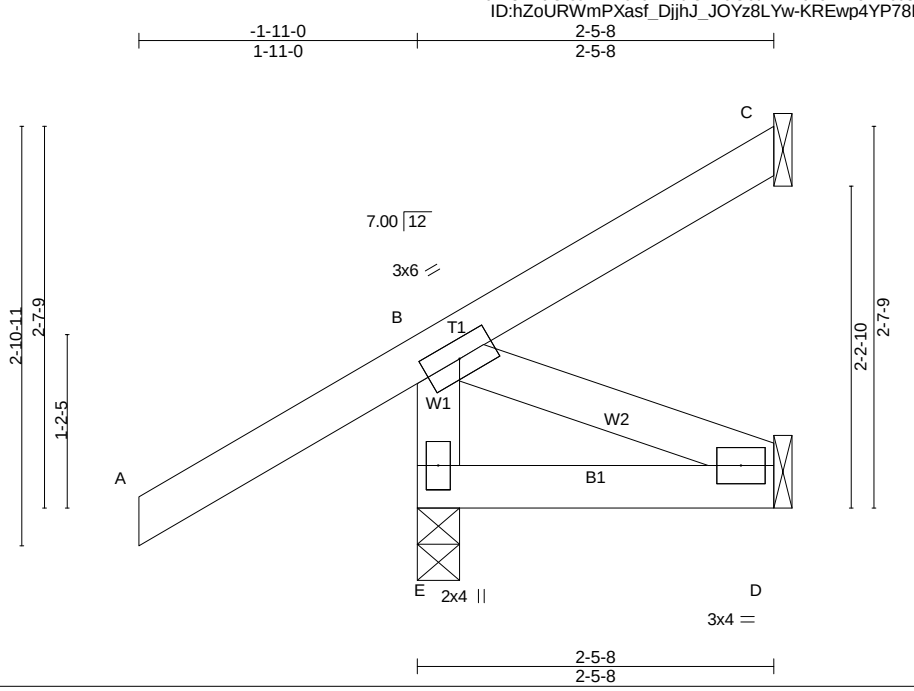
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-273/117

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) All plates are MT20 plates unless otherwise indicated.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D.
7) 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.
8) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 1-7-12 from the left end to connect truss(es) JA6 (1 ply 2x4 SP) to back face of bottom chord.
9) Use Simpson Strong-Tie HTU26 (20-10d Girder, 14-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 3-7-12 from the left end to connect truss(es) JA6 (1 ply 2x4 SP) to back face of bottom chord.
10) Fill all nail holes where hanger is in contact with lumber.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-C=-60, D-E=-20
Concentrated Loads (lb)
Vert: I=-187(B) J=-191(B)

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JE5	Jack-Open	2	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:39 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-KREwp4YP78FeoHXKorrxvB1PeLL2c6CQiAt2dnyFhc2



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.00	D-E	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	D-E	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	-0.00	C	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.00	E	****	240	Weight: 16 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
W2: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-8 oc purlins, except end verticals.
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) E=271/0-3-8 (min. 0-1-8), C=11/Mechanical, D=23/Mechanical
Max Horz E=105(LC 12)
Max Uplift E=-76(LC 12), C=-20(LC 12), D=-33(LC 12)
Max Grav E=271(LC 1), C=25(LC 8), D=46(LC 10)

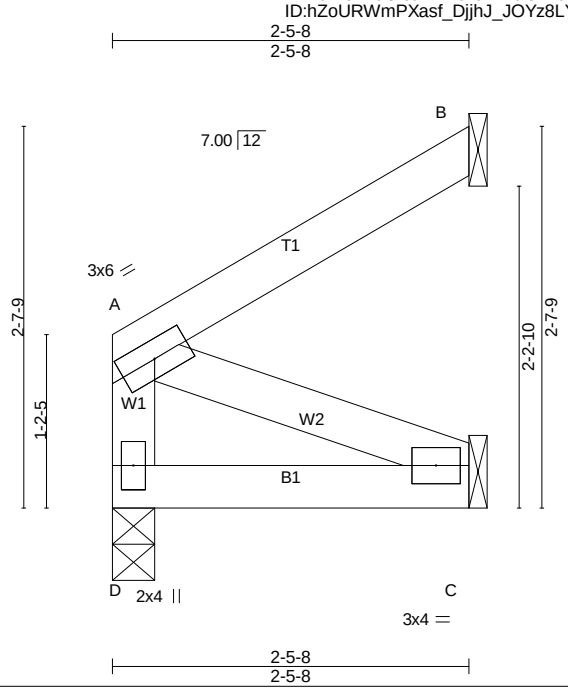
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E, C, D.
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	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JE6	Jack-Open	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:40 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-oeoI0QZ1uSNVPR6WMYMASOaeWlhHLZmZxqdb9DyFhc1



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.00	C-D	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	C-D	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	B	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.00	D	****	240	Weight: 13 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
W2: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-8 oc purlins, except end verticals.
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) D=91/0-3-8 (min. 0-1-8), B=68/Mechanical, C=23/Mechanical
Max Horz D=65(LC 9)
Max Uplift B=-65(LC 12), C=-11(LC 12)
Max Grav D=91(LC 1), B=77(LC 19), C=46(LC 3)

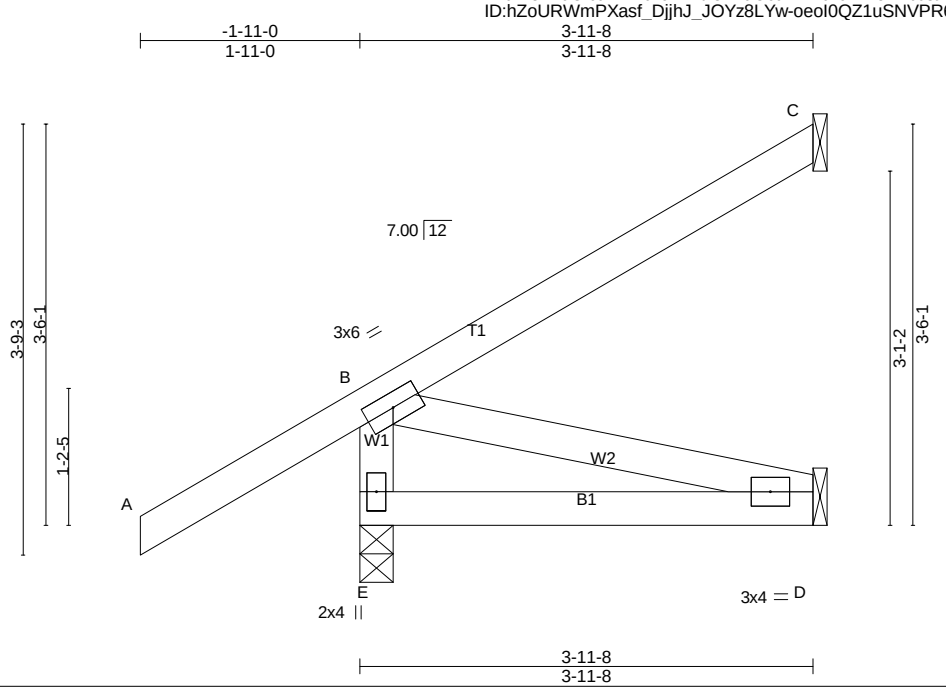
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, C.
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	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JG1	Jack-Open	3	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:40 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-oeoI0QZ1uSNVPR6WMYMASOaaRlfULYFZxqdb9DyFhc1



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.01	D-E	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.03	D-E	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	-0.00	C	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.00	E	****	240	Weight: 23 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
W2: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-8 oc purlins, except end verticals.
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) E=308/0-3-8 (min. 0-1-8), C=78/Mechanical, D=38/Mechanical
Max Horz E=150(LC 12)
Max Uplift E=-73(LC 12), C=-81(LC 12), D=-17(LC 12)
Max Grav E=308(LC 1), C=94(LC 19), D=76(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-E=-270/200

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E, C, D.
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	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JG2	Jack-Open Girder	2	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:41 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-GqMgDmafflVL1bgivFtP_c6lB9?S40yj9UM8igyFhc0

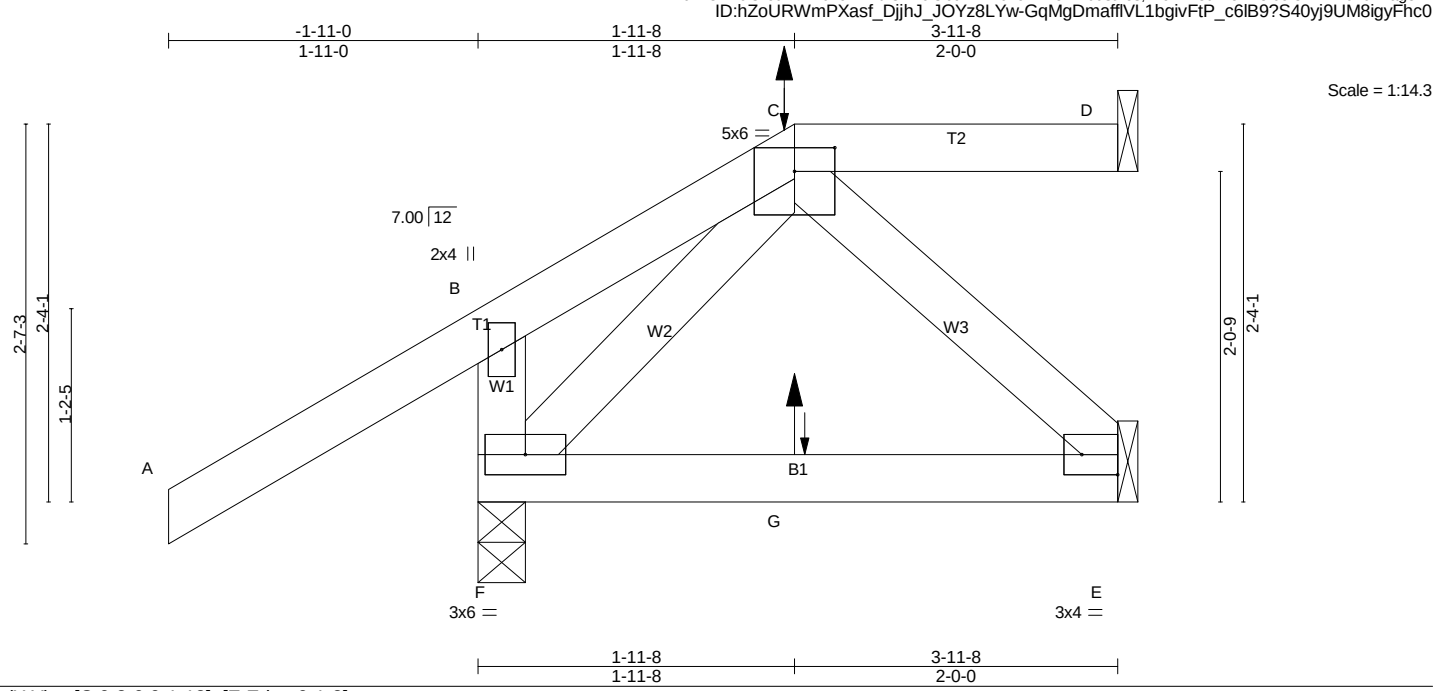


Plate Offsets (X,Y)-- [C:0-3-0,0-1-12], [E:Edge,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.01	E-F	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.03	E-F	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.04	Horz(CT)	-0.00	D	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.01	E-F	>999	240	Weight: 24 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-8 oc purlins, except end verticals, and 2-0-0 oc purlins: C-D.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

REACTIONS. (lb/size) F=294/0-3-8 (min. 0-1-8), D=58/Mechanical, E=45/Mechanical
Max Horz F=93(LC 8)
Max Uplift F=-140(LC 8), D=-39(LC 4), E=-51(LC 5)
Max Grav F=294(LC 1), D=58(LC 1), E=75(LC 3)

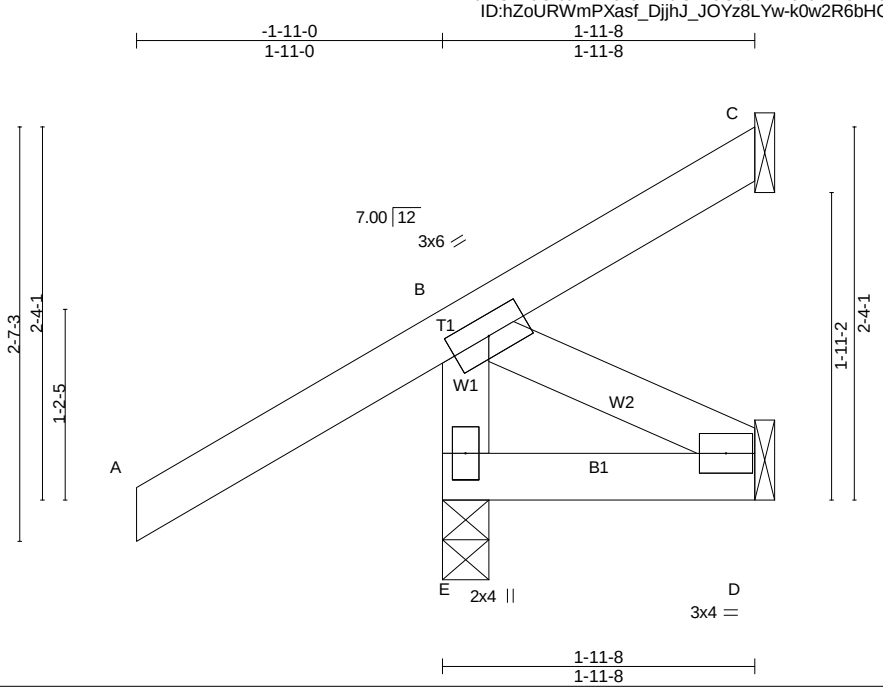
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-F=-269/203

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D, E except (jt=lb) F=140.
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.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 94 lb down and 100 lb up at 1-11-8 on top chord, and 31 lb down and 51 lb up at 1-11-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-60, B-C=-60, C-D=-60, E-F=-20
Concentrated Loads (lb)
Vert: C=26(B) G=2(B)

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	JG3	Jack-Open	2	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:42 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-k0w2R6bHQ3dCflFvTzPeXpfwwZN7pT1sO86iE6yFhc?



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.00	E	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	D-E	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	-0.00	C	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MP		Wind(LL)	0.00	E	****	240	Weight: 14 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
W2: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-11-8 oc purlins, except end verticals.
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) E=267/0-3-8 (min. 0-1-8), C=-17/Mechanical, D=18/Mechanical
Max Horz E=84(LC 12)
Max Uplift E=-82(LC 12), C=-17(LC 1), D=-40(LC 12)
Max Grav E=267(LC 1), C=23(LC 8), D=39(LC 10)

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

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E, C, D.
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	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	K01	Roof Special Structural Gable	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:43 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-CCUQeRcvBNl3Gvq51gwt31C1zzdeYmS?dorFmYyFhc_

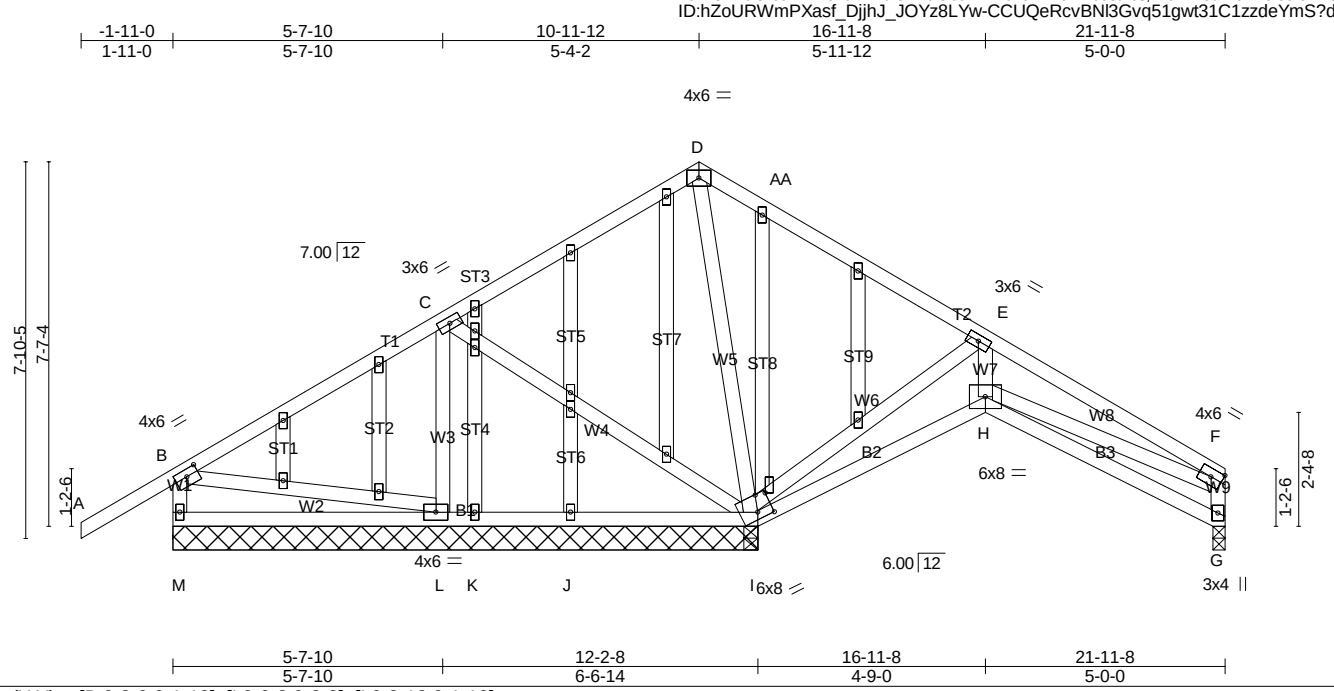


Plate Offsets (X,Y)-- [B:0-3-0,0-1-12], [I:0-0-8,0-2-8], [I:0-3-12,0-1-12]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	0.08	H-I	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.05	G-H	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.02	G	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 174 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* W1,W9: 2x4 SP No.2
OTHERS 2x4 SP No.3

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

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

REACTIONS. All bearings 12-2-8 except (jt=length) G=0-3-0.
(lb) - Max Horz M=285(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) G except M=-126(LC 12), I=-254(LC 13), L=-128(LC 12), K=-174(LC 3)
Max Grav All reactions 250 lb or less at joint(s) G, J except M=326(LC 23), I=1131(LC 1), I=1131(LC 1), L=409(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-D=-178/327, D-AA=-233/464, E-AA=-271/380, B-M=-278/181
BOT CHORD L-M=-264/291
WEBS C-I=-270/281, D-I=-643/393, E-I=-560/632, E-H=-367/275

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 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.
8) Bearing at joint(s) G considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) G except (jt=lb) M=126 , I=254, L=128, K=174.
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) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Continued on page 2

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: A-B=-60, B-D=-60, D-AA=-60, E-F=-62(F=-2), I-M=-20, G-H=-22(F=-2)
   Trapezoidal Loads (plf)
      Vert: AA=-66(F=-6)-to-E=-62(F=-2), I=-26(F=-6)-to-H=-22(F=-2)
2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: A-B=-50, B-D=-50, D-AA=-50, E-F=-52(F=-2), I-M=-20, G-H=-22(F=-2)
   Trapezoidal Loads (plf)
      Vert: AA=-56(F=-6)-to-E=-52(F=-2), I=-26(F=-6)-to-H=-22(F=-2)
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
      Vert: A-B=-20, B-D=-20, D-AA=-20, E-F=-22(F=-2), I-M=-40, G-H=-42(F=-2)
   Trapezoidal Loads (plf)
      Vert: AA=-26(F=-6)-to-E=-22(F=-2), I=-46(F=-6)-to-H=-42(F=-2)
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: A-B=63, B-D=37, D-AA=37, E-F=35(F=-2), I-M=-12, G-H=78(F=-2)
      Horz: A-B=-75, B-D=-49, D-F=49, H-I=-92, G-H=92, B-M=25, F-G=45
   Trapezoidal Loads (plf)
      Vert: AA=31(F=-6)-to-E=35(F=-2), I=74(F=-6)-to-H=78(F=-2)
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: A-B=30, B-D=37, D-AA=37, E-F=35(F=-2), I-M=-12, G-H=78(F=-2)
      Horz: A-B=-42, B-D=-49, D-F=49, H-I=-92, G-H=92, B-M=-45, F-G=-25
   Trapezoidal Loads (plf)
      Vert: AA=31(F=-6)-to-E=35(F=-2), I=74(F=-6)-to-H=78(F=-2)
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: A-B=13, B-D=-61, D-AA=-61, E-F=-63(F=-2), I-M=-20, G-H=-9(F=-2)
      Horz: A-B=-33, B-D=41, D-F=-41, H-I=-13, G-H=13, B-M=-29, F-G=-40
   Trapezoidal Loads (plf)
      Vert: AA=-67(F=-6)-to-E=-63(F=-2), I=-13(F=-6)-to-H=-9(F=-2)
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: A-B=-53, B-D=-61, D-AA=-61, E-F=-63(F=-2), I-M=-20, G-H=-9(F=-2)
      Horz: A-B=33, B-D=41, D-F=-41, H-I=-13, G-H=13, B-M=40, F-G=29
   Trapezoidal Loads (plf)
      Vert: AA=-67(F=-6)-to-E=-63(F=-2), I=-13(F=-6)-to-H=-9(F=-2)
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: A-B=2, B-D=-16, D-AA=18, E-F=16(F=-2), I-M=-12, G-H=11(F=-2)
      Horz: A-B=-14, B-D=4, D-F=30, H-I=-25, G-H=25, B-M=21, F-G=28
   Trapezoidal Loads (plf)
      Vert: AA=12(F=-6)-to-E=16(F=-2), I=7(F=-6)-to-H=11(F=-2)
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: A-B=10, B-D=18, D-AA=-16, E-F=-18(F=-2), I-M=-12, G-H=11(F=-2)
      Horz: A-B=-22, B-D=-30, D-F=-4, H-I=-25, G-H=25, B-M=-28, F-G=-21
   Trapezoidal Loads (plf)
      Vert: AA=-22(F=-6)-to-E=-18(F=-2), I=7(F=-6)-to-H=11(F=-2)
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: A-B=-31, B-D=-39, D-AA=-5, E-F=-7(F=-2), I-M=-20, G-H=3(F=-2)
      Horz: A-B=11, B-D=19, D-F=15, H-I=-25, G-H=25, B-M=36, F-G=13
   Trapezoidal Loads (plf)
      Vert: AA=-11(F=-6)-to-E=-7(F=-2), I=-1(F=-6)-to-H=3(F=-2)
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: A-B=2, B-D=-5, D-AA=-39, E-F=-41(F=-2), I-M=-20, G-H=3(F=-2)
      Horz: A-B=-22, B-D=-15, D-F=-19, H-I=-25, G-H=25, B-M=-13, F-G=-36
   Trapezoidal Loads (plf)
      Vert: AA=-45(F=-6)-to-E=-41(F=-2), I=-1(F=-6)-to-H=3(F=-2)
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: A-B=33, B-D=40, D-AA=18, E-F=16(F=-2), I-M=-12, G-H=-14(F=-2)
      Horz: A-B=-45, B-D=-52, D-F=30, B-M=18, F-G=25
   Trapezoidal Loads (plf)
      Vert: AA=12(F=-6)-to-E=16(F=-2), I=-18(F=-6)-to-H=-14(F=-2)
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
      Vert: A-B=10, B-D=18, D-AA=40, E-F=38(F=-2), I-M=-12, G-H=-14(F=-2)
      Horz: A-B=-22, B-D=-30, D-F=52, B-M=-25, F-G=-18
   Trapezoidal Loads (plf)
      Vert: AA=34(F=-6)-to-E=38(F=-2), I=-18(F=-6)-to-H=-14(F=-2)
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: A-B=33, B-D=40, D-AA=18, E-F=16(F=-2), I-M=-12, G-H=-14(F=-2)
Horz: A-B=-45, B-D=-52, D-F=30, B-M=18, F-G=25
Trapezoidal Loads (plf)
Vert: AA=12(F=-6)-to-E=16(F=-2), I=-18(F=-6)-to-H=-14(F=-2)

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=10, B-D=18, D-AA=40, E-F=38(F=-2), I-M=-12, G-H=-14(F=-2)
Horz: A-B=-22, B-D=-30, D-F=52, B-M=-25, F-G=-18
Trapezoidal Loads (plf)
Vert: AA=34(F=-6)-to-E=38(F=-2), I=-18(F=-6)-to-H=-14(F=-2)

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=25, B-D=17, D-AA=-5, E-F=-7(F=-2), I-M=-20, G-H=-22(F=-2)
Horz: A-B=-45, B-D=-37, D-F=15, B-M=33, F-G=10
Trapezoidal Loads (plf)
Vert: AA=-11(F=-6)-to-E=-7(F=-2), I=-26(F=-6)-to-H=-22(F=-2)

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=2, B-D=-5, D-AA=17, E-F=15(F=-2), I-M=-20, G-H=-22(F=-2)
Horz: A-B=-22, B-D=-15, D-F=37, B-M=-10, F-G=-33
Trapezoidal Loads (plf)
Vert: AA=11(F=-6)-to-E=15(F=-2), I=-26(F=-6)-to-H=-22(F=-2)

18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: A-B=-20, B-D=-20, D-AA=-20, E-F=-22(F=-2), I-M=-20, G-H=-22(F=-2)
Trapezoidal Loads (plf)
Vert: AA=-26(F=-6)-to-E=-22(F=-2), I=-26(F=-6)-to-H=-22(F=-2)

19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=-58, B-D=-64, D-AA=-39, E-F=-41(F=-2), I-M=-20, G-H=-3(F=-2)
Horz: A-B=8, B-D=14, D-F=11, H-I=-19, G-H=19, B-M=27, F-G=9
Trapezoidal Loads (plf)
Vert: AA=-45(F=-6)-to-E=-41(F=-2), I=-7(F=-6)-to-H=-3(F=-2)

20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=-33, B-D=-39, D-AA=-64, E-F=-66(F=-2), I-M=-20, G-H=-3(F=-2)
Horz: A-B=-17, B-D=-11, D-F=-14, H-I=-19, G-H=19, B-M=-9, F-G=-27
Trapezoidal Loads (plf)
Vert: AA=-70(F=-6)-to-E=-66(F=-2), I=-7(F=-6)-to-H=-3(F=-2)

21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=-17, B-D=-22, D-AA=-39, E-F=-41(F=-2), I-M=-20, G-H=-22(F=-2)
Horz: A-B=-33, B-D=-28, D-F=11, B-M=25, F-G=8
Trapezoidal Loads (plf)
Vert: AA=-45(F=-6)-to-E=-41(F=-2), I=-26(F=-6)-to-H=-22(F=-2)

22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=-33, B-D=-39, D-AA=-22, E-F=-24(F=-2), I-M=-20, G-H=-22(F=-2)
Horz: A-B=-17, B-D=-11, D-F=28, B-M=-8, F-G=-25
Trapezoidal Loads (plf)
Vert: AA=-28(F=-6)-to-E=-24(F=-2), I=-26(F=-6)-to-H=-22(F=-2)

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-60, B-D=-60, D-AA=-20, E-F=-22(F=-2), I-M=-20, G-H=-22(F=-2)
Trapezoidal Loads (plf)
Vert: AA=-26(F=-6)-to-E=-22(F=-2), I=-26(F=-6)-to-H=-22(F=-2)

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-20, B-D=-20, D-AA=-60, E-F=-62(F=-2), I-M=-20, G-H=-22(F=-2)
Trapezoidal Loads (plf)
Vert: AA=-66(F=-6)-to-E=-62(F=-2), I=-26(F=-6)-to-H=-22(F=-2)

25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-50, B-D=-50, D-AA=-20, E-F=-22(F=-2), I-M=-20, G-H=-22(F=-2)
Trapezoidal Loads (plf)
Vert: AA=-26(F=-6)-to-E=-22(F=-2), I=-26(F=-6)-to-H=-22(F=-2)

26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-20, B-D=-20, D-AA=-50, E-F=-52(F=-2), I-M=-20, G-H=-22(F=-2)
Trapezoidal Loads (plf)
Vert: AA=-56(F=-6)-to-E=-52(F=-2), I=-26(F=-6)-to-H=-22(F=-2)

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	K02	Roof Special	3	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:44 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-hP2psncXygtwu2PHbOR6cEkB4MuOH9R9sSbpH_yFhbz

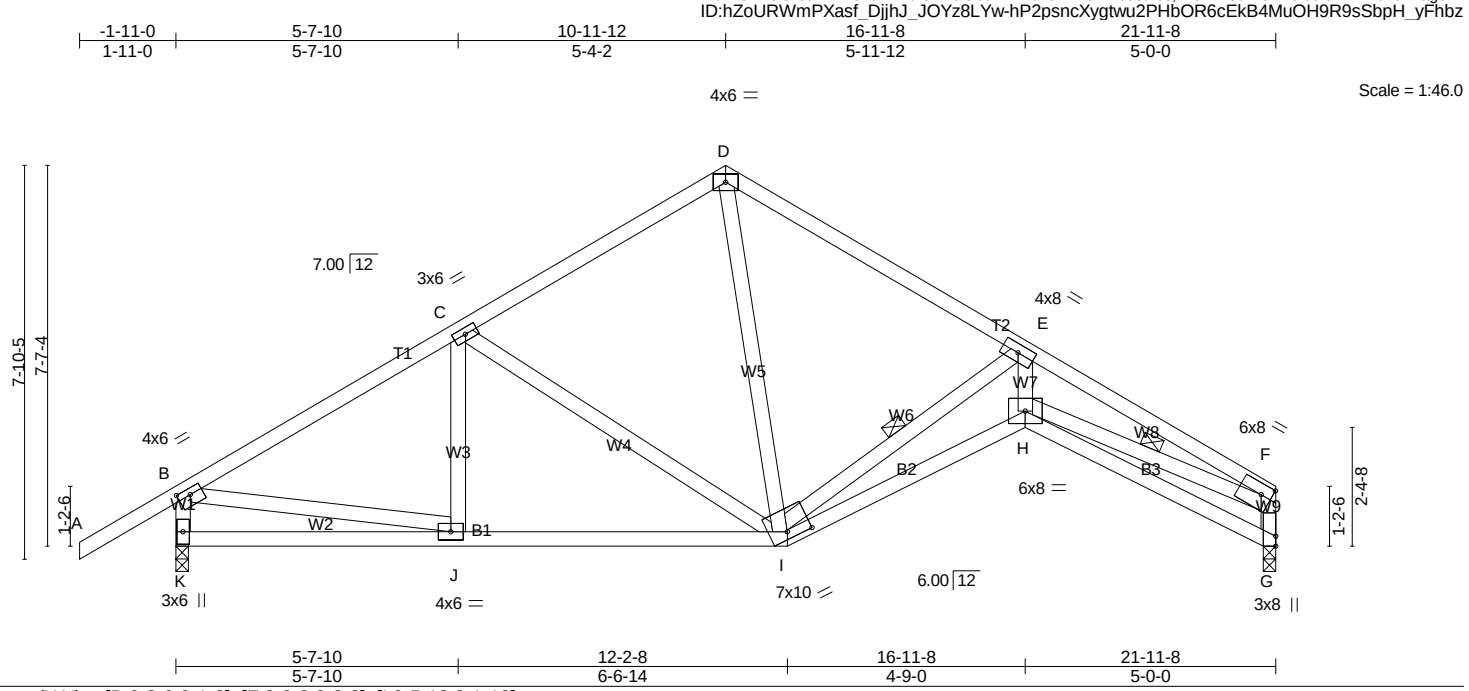


Plate Offsets (X,Y)-- [B:0-3-0,0-1-8], [F:0-2-8,0-2-8], [I:0-5-12,0-1-12]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.15	H	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.31	H-I	>842	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.95	Horz(CT)	-0.24	G	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.37	H-I	>702	240	Weight: 132 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1,W9: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-5-12 oc bracing.
WEBS 1 Row at midpt E-I, F-H

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

REACTIONS. (lb/size) K=996/0-3-0 (min. 0-1-8), G=861/0-3-0 (min. 0-1-8)
Max Horz K=286(LC 11)
Max UpliftK=-287(LC 12), G=-217(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1102/1274, C-D=-802/1010, D-E=-892/1164, E-F=-2783/3359, B-K=-947/1019, F-G=-863/1024
BOT CHORD J-K=-267/274, I-J=-1028/879, H-I=-3062/2632
WEBS C-I=-387/455, D-I=-877/465, E-I=-2112/2624, E-H=-2555/1954, B-J=-888/823, F-H=-2687/2291

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) G considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) K=287, G=217.
7) 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	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	K03	Roof Special	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:45 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-9bcB37d9j_?nWC_U85yL9SHOxmEJ0edI46KMqRyFhby

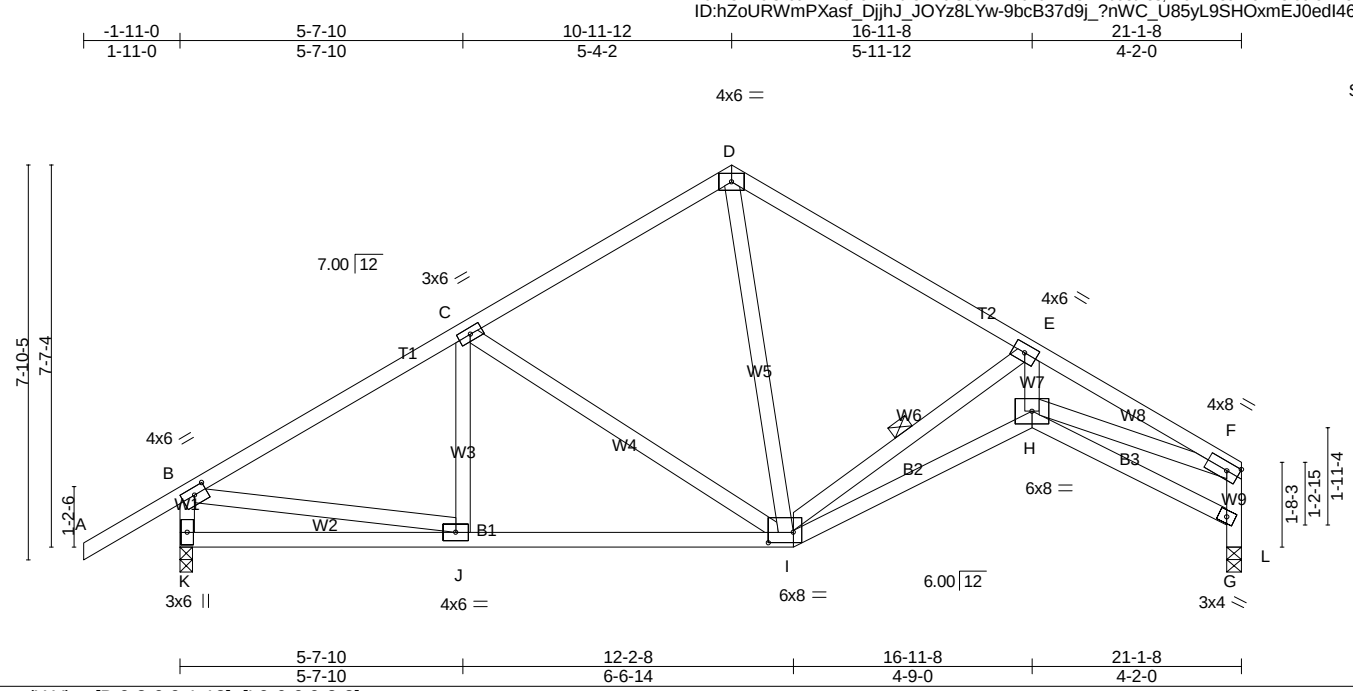


Plate Offsets (X,Y)-- [B:0-3-0,0-1-12], [I:0-6-0,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.10	H-I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.21	H-I	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.82	Horz(CT)	-0.20	L	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.28	H-I	>887	240	Weight: 128 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1,W9: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-9-2 oc bracing.
WEBS 1 Row at midpt E-I

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

REACTIONS. (lb/size) K=963/0-3-0 (min. 0-1-8), L=827/0-3-8 (min. 0-1-8)
Max Horz K=299(LC 11)
Max Uplift K=-281(LC 12), L=-204(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1052/1213, C-D=-744/932, D-E=-822/1072, E-F=-2316/2878, B-K=-914/981, G-L=-827/1115, F-G=-811/988
BOT CHORD J-K=-280/264, I-J=-1053/836, H-I=-2676/2198
WEBS C-I=-394/472, D-I=-792/415, E-I=-1694/2187, E-H=-2096/1515, B-J=-839/781, F-H=-2329/1916

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) L considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) K=281, L=204.
7) 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	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	L01	GABLE	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:46 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-dn9ZHTeoUI7e7MZgipTahfqbgAeUlEpSJl4vMtyFhbx

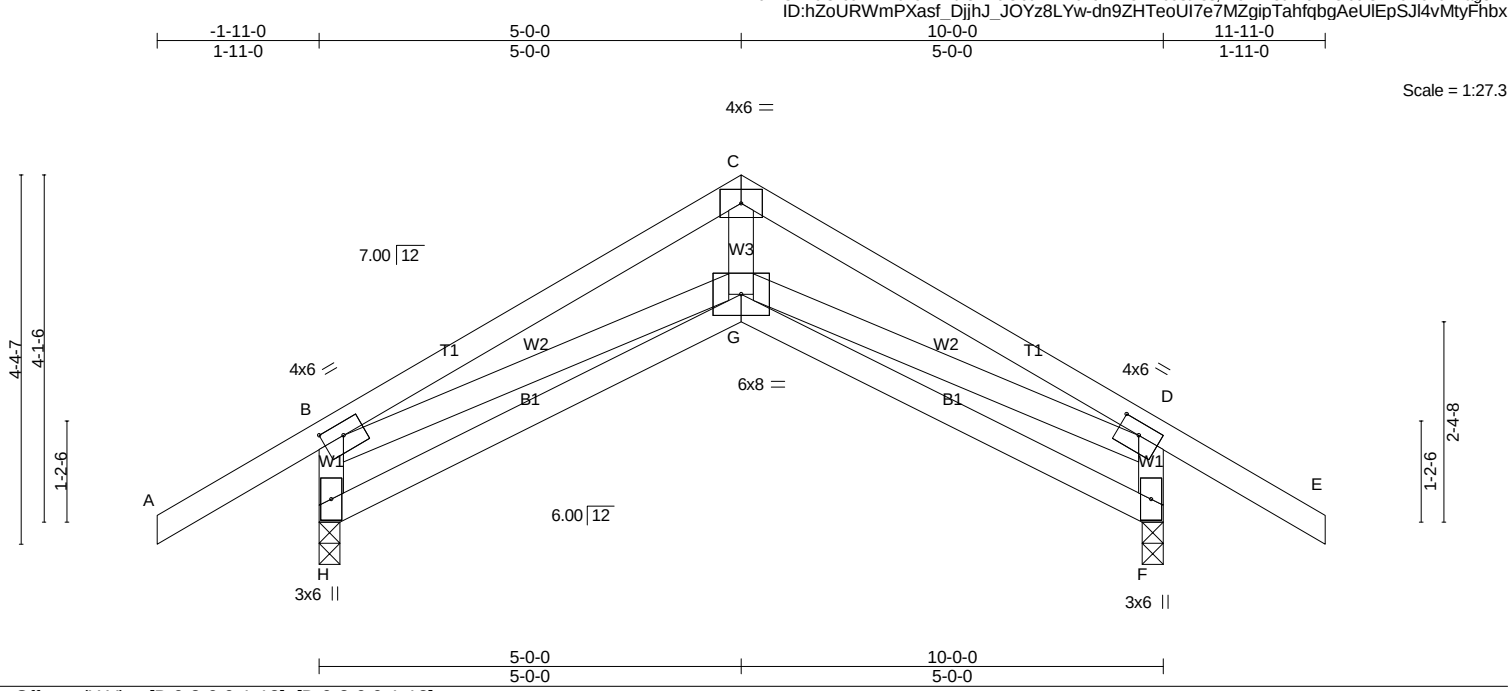


Plate Offsets (X,Y)-- [B:0-3-0,0-1-12], [D:0-3-0,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.03	F-G	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.06	F-G	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.05	F	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.10	F-G	>999	240	Weight: 60 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-15 oc purlins, except end verticals.
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) H=531/0-3-0 (min. 0-1-8), F=532/0-3-0 (min. 0-1-8)
Max Horz H=-184(LC 10)
Max Uplift H=-147(LC 12), F=-147(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-859/797, C-D=-854/799, B-H=-553/505, D-F=-507/525
BOT CHORD G-H=-174/279, F-G=-43/300
WEBS C-G=-634/549, B-G=-368/611, D-G=-436/619

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable studs spaced at 2-0-0 oc.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) H, F considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) H=147, F=147.
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.
10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-60, B-C=-62(F=-2), C-D=-62(F=-2), D-E=-60, G-H=-22(F=-2), F-G=-22(F=-2)

Continued on page 2

LOAD CASE(S) Standard

2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-B=-50, B-C=-52(F=-2), C-D=-52(F=-2), D-E=-50, G-H=-22(F=-2), F-G=-22(F=-2)
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: A-B=-20, B-C=-22(F=-2), C-D=-22(F=-2), D-E=-20, G-H=-42(F=-2), F-G=-42(F=-2)
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: A-B=67, B-C=39(F=-2), C-D=39(F=-2), D-E=34, G-H=78(F=-2), F-G=78(F=-2)
   Horz: A-B=-79, B-C=-53, C-D=53, D-E=46, G-H=-92, F-G=92, B-H=30, D-F=50
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: A-B=34, B-C=39(F=-2), C-D=39(F=-2), D-E=67, G-H=78(F=-2), F-G=78(F=-2)
   Horz: A-B=-46, B-C=-53, C-D=53, D-E=79, G-H=-92, F-G=92, B-H=-50, D-F=-30
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: A-B=15, B-C=-65(F=-2), C-D=-65(F=-2), D-E=-55, G-H=-6(F=-2), F-G=-6(F=-2)
   Horz: A-B=-35, B-C=43, C-D=-43, D-E=-35, G-H=-16, F-G=16, B-H=-35, D-F=-45
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: A-B=-55, B-C=-65(F=-2), C-D=-65(F=-2), D-E=15, G-H=-6(F=-2), F-G=-6(F=-2)
   Horz: A-B=35, B-C=43, C-D=-43, D-E=35, G-H=-16, F-G=16, B-H=45, D-F=35
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: A-B=2, B-C=-18(F=-2), C-D=16(F=-2), D-E=10, G-H=11(F=-2), F-G=11(F=-2)
   Horz: A-B=-14, B-C=4, C-D=30, D-E=22, G-H=-25, F-G=25, B-H=21, D-F=28
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: A-B=10, B-C=16(F=-2), C-D=-18(F=-2), D-E=2, G-H=-14(F=-2), F-G=-14(F=-2)
   Horz: A-B=-22, B-C=-30, C-D=-4, D-E=14, B-H=-28, D-F=-21
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: A-B=-31, B-C=-41(F=-2), C-D=-7(F=-2), D-E=2, G-H=3(F=-2), F-G=3(F=-2)
    Horz: A-B=11, B-C=19, C-D=15, D-E=22, G-H=-25, F-G=25, B-H=36, D-F=13
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: A-B=2, B-C=-7(F=-2), C-D=-41(F=-2), D-E=-31, G-H=-22(F=-2), F-G=-22(F=-2)
    Horz: A-B=-22, B-C=-15, C-D=-19, D-E=-11, B-H=-13, D-F=-36
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: A-B=33, B-C=38(F=-2), C-D=16(F=-2), D-E=10, G-H=-14(F=-2), F-G=-14(F=-2)
    Horz: A-B=-45, B-C=-52, C-D=30, D-E=22, B-H=18, D-F=25
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: A-B=10, B-C=16(F=-2), C-D=38(F=-2), D-E=33, G-H=-14(F=-2), F-G=-14(F=-2)
    Horz: A-B=-22, B-C=-30, C-D=52, D-E=45, B-H=-25, D-F=-18
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: A-B=33, B-C=38(F=-2), C-D=16(F=-2), D-E=10, G-H=-14(F=-2), F-G=-14(F=-2)
    Horz: A-B=-45, B-C=-52, C-D=30, D-E=22, B-H=18, D-F=25
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: A-B=10, B-C=16(F=-2), C-D=38(F=-2), D-E=33, G-H=-14(F=-2), F-G=-14(F=-2)
    Horz: A-B=-22, B-C=-30, C-D=52, D-E=45, B-H=-25, D-F=-18
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: A-B=25, B-C=15(F=-2), C-D=-7(F=-2), D-E=2, G-H=-22(F=-2), F-G=-22(F=-2)
    Horz: A-B=-45, B-C=-37, C-D=15, D-E=22, B-H=33, D-F=10
17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: A-B=2, B-C=-7(F=-2), C-D=15(F=-2), D-E=25, G-H=-22(F=-2), F-G=-22(F=-2)
    Horz: A-B=-22, B-C=-15, C-D=37, D-E=45, B-H=-10, D-F=-33
18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
    Uniform Loads (plf)
    Vert: A-B=-20, B-C=-22(F=-2), C-D=-22(F=-2), D-E=-20, G-H=-22(F=-2), F-G=-22(F=-2)
19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: A-B=-58, B-C=-66(F=-2), C-D=-41(F=-2), D-E=-33, G-H=-3(F=-2), F-G=-3(F=-2)
    Horz: A-B=8, B-C=14, C-D=11, D-E=17, G-H=-19, F-G=19, B-H=27, D-F=9
20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: A-B=-33, B-C=-41(F=-2), C-D=-66(F=-2), D-E=-58, G-H=-22(F=-2), F-G=-22(F=-2)
    Horz: A-B=-17, B-C=-11, C-D=-14, D-E=-8, B-H=-9, D-F=-27
21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: A-B=-17, B-C=-24(F=-2), C-D=-41(F=-2), D-E=-33, G-H=-22(F=-2), F-G=-22(F=-2)
    Horz: A-B=-33, B-C=-28, C-D=11, D-E=17, B-H=25, D-F=8

Continued on page 3

LOAD CASE(S) Standard

22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=-33, B-C=-41(F=-2), C-D=-24(F=-2), D-E=-17, G-H=-22(F=-2), F-G=-22(F=-2)
Horz: A-B=-17, B-C=-11, C-D=28, D-E=33, B-H=-8, D-F=-25

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-60, B-C=-62(F=-2), C-D=-22(F=-2), D-E=-20, G-H=-22(F=-2), F-G=-22(F=-2)

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-20, B-C=-22(F=-2), C-D=-62(F=-2), D-E=-60, G-H=-22(F=-2), F-G=-22(F=-2)

25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-50, B-C=-52(F=-2), C-D=-22(F=-2), D-E=-20, G-H=-22(F=-2), F-G=-22(F=-2)

26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-B=-20, B-C=-22(F=-2), C-D=-52(F=-2), D-E=-50, G-H=-22(F=-2), F-G=-22(F=-2)

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	M01	GABLE	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:47 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-5_jxUpfQFbFVlW8sGW_pEtMd7atQUVtbYPpTuJyFhbw

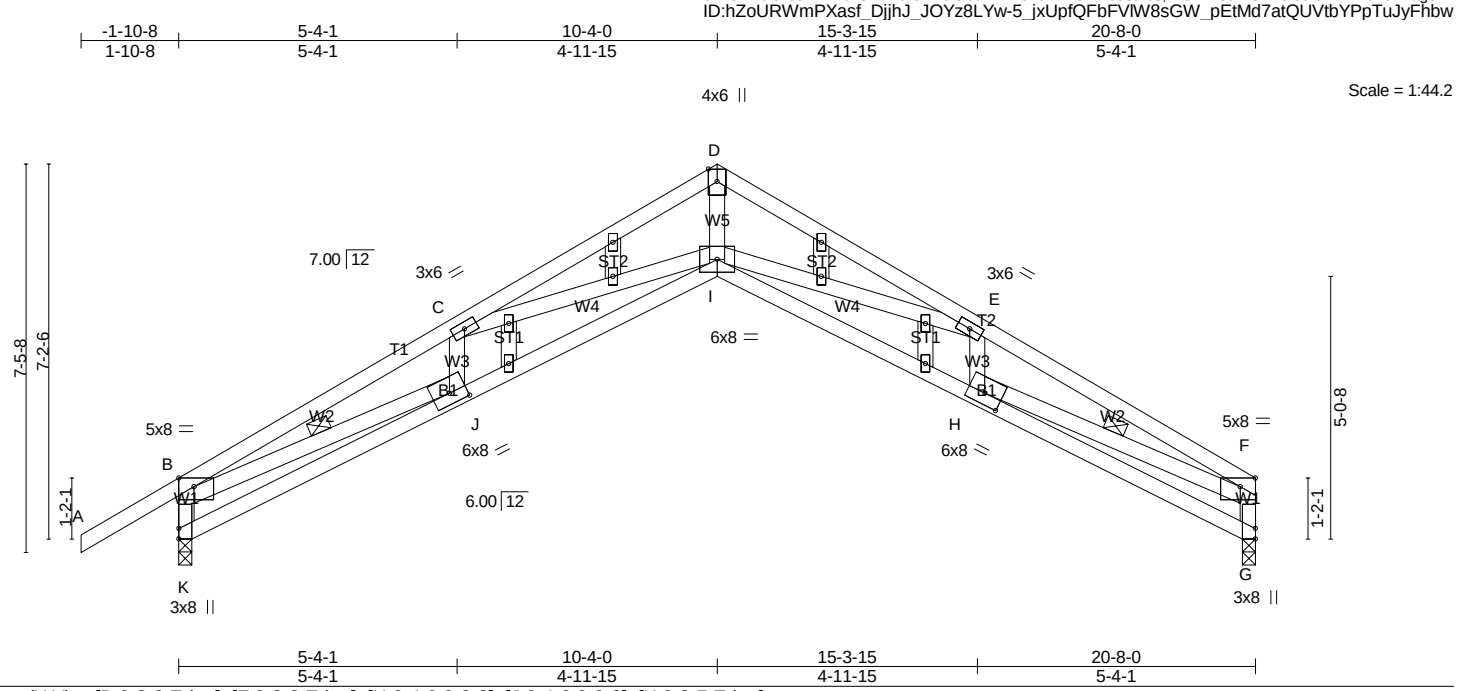


Plate Offsets (X,Y)-- [B:0-3-8,Edge], [F:0-3-8,Edge], [H:0-4-0,0-2-8], [J:0-4-0,0-2-8], [K:0-2-7,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.24	I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.51	H-I	>483	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.97	Horz(CT)	-0.56	G	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.55	H-I	>447	240	Weight: 118 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* W5,W1: 2x4 SP No.2
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-7-6 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-10-1 oc bracing.
WEBS	1 Row at midpt B-J, F-H

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

REACTIONS. (lb/size) K=983/0-3-0 (min. 0-1-8), G=850/0-3-0 (min. 0-1-8)
Max Horz K=272(LC 9)
Max Uplift K=-232(LC 12), G=-163(LC 13)

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

TOP CHORD	B-C=-2816/3558, C-D=-2856/2858, D-E=-2858/2860, E-F=-2872/3571, B-K=-985/1140, F-G=-865/1033
BOT CHORD	J-K=-298/385, I-J=-2964/2626, H-I=-2983/2690
WEBS	D-I=-2675/2494, E-I=-429/859, E-H=-335/132, C-I=-224/796, C-J=-349/153, B-J=-2752/2308, F-H=-2854/2340

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 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.
8) Bearing at joint(s) K, G considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) K=232, G=163.
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) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Continued on page 2

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-B=-60, B-D=-62(F=-2), D-F=-62(F=-2), I-K=-22(F=-2), G-I=-22(F=-2)
2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-B=-50, B-D=-52(F=-2), D-F=-52(F=-2), I-K=-22(F=-2), G-I=-22(F=-2)
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: A-B=-20, B-D=-22(F=-2), D-F=-22(F=-2), I-K=-42(F=-2), G-I=-42(F=-2)
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: A-B=63, B-D=35(F=-2), D-F=35(F=-2), I-K=78(F=-2), G-I=78(F=-2)
   Horz: A-B=-75, B-D=-49, D-F=49, I-K=-92, G-I=92, B-K=26, F-G=45
5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: A-B=30, B-D=35(F=-2), D-F=35(F=-2), I-K=78(F=-2), G-I=78(F=-2)
   Horz: A-B=-42, B-D=-49, D-F=49, I-K=-92, G-I=92, B-K=-45, F-G=-26
6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: A-B=13, B-D=-63(F=-2), D-F=-63(F=-2), I-K=-9(F=-2), G-I=-9(F=-2)
   Horz: A-B=-33, B-D=41, D-F=-41, I-K=-13, G-I=13, B-K=-30, F-G=-41
7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: A-B=-53, B-D=-63(F=-2), D-F=-63(F=-2), I-K=-9(F=-2), G-I=-9(F=-2)
   Horz: A-B=33, B-D=41, D-F=-41, I-K=-13, G-I=13, B-K=41, F-G=30
8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: A-B=2, B-D=-18(F=-2), D-F=16(F=-2), I-K=11(F=-2), G-I=11(F=-2)
   Horz: A-B=-14, B-D=4, D-F=30, I-K=-25, G-I=25, B-K=21, F-G=28
9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
   Uniform Loads (plf)
   Vert: A-B=10, B-D=16(F=-2), D-F=-18(F=-2), I-K=-14(F=-2), G-I=-14(F=-2)
   Horz: A-B=-22, B-D=-30, D-F=-4, B-K=-28, F-G=-21
10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: A-B=-31, B-D=-41(F=-2), D-F=-7(F=-2), I-K=3(F=-2), G-I=3(F=-2)
    Horz: A-B=11, B-D=19, D-F=15, I-K=-25, G-I=25, B-K=36, F-G=13
11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: A-B=2, B-D=-7(F=-2), D-F=-41(F=-2), I-K=-22(F=-2), G-I=-22(F=-2)
    Horz: A-B=-22, B-D=-15, D-F=-19, B-K=-13, F-G=-36
12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: A-B=33, B-D=38(F=-2), D-F=16(F=-2), I-K=-14(F=-2), G-I=-14(F=-2)
    Horz: A-B=-45, B-D=-52, D-F=30, B-K=18, F-G=25
13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: A-B=10, B-D=16(F=-2), D-F=38(F=-2), I-K=-14(F=-2), G-I=-14(F=-2)
    Horz: A-B=-22, B-D=-30, D-F=52, B-K=-25, F-G=-18
14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: A-B=33, B-D=38(F=-2), D-F=16(F=-2), I-K=-14(F=-2), G-I=-14(F=-2)
    Horz: A-B=-45, B-D=-52, D-F=30, B-K=18, F-G=25
15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: A-B=10, B-D=16(F=-2), D-F=38(F=-2), I-K=-14(F=-2), G-I=-14(F=-2)
    Horz: A-B=-22, B-D=-30, D-F=52, B-K=-25, F-G=-18
16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: A-B=25, B-D=15(F=-2), D-F=-7(F=-2), I-K=-22(F=-2), G-I=-22(F=-2)
    Horz: A-B=-45, B-D=-37, D-F=15, B-K=33, F-G=10
17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: A-B=2, B-D=-7(F=-2), D-F=15(F=-2), I-K=-22(F=-2), G-I=-22(F=-2)
    Horz: A-B=-22, B-D=-15, D-F=37, B-K=-10, F-G=-33
18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
    Uniform Loads (plf)
    Vert: A-B=-20, B-D=-22(F=-2), D-F=-22(F=-2), I-K=-22(F=-2), G-I=-22(F=-2)
19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: A-B=-58, B-D=-66(F=-2), D-F=-41(F=-2), I-K=-3(F=-2), G-I=-3(F=-2)
    Horz: A-B=8, B-D=14, D-F=11, I-K=-19, G-I=19, B-K=27, F-G=9
20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
    Uniform Loads (plf)
    Vert: A-B=-33, B-D=-41(F=-2), D-F=-66(F=-2), I-K=-22(F=-2), G-I=-22(F=-2)
    Horz: A-B=-17, B-D=-11, D-F=-14, B-K=-9, F-G=-27
21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: A-B=-17, B-D=-24(F=-2), D-F=-41(F=-2), I-K=-22(F=-2), G-I=-22(F=-2)

Horz: A-B=-33, B-D=-28, D-F=11, B-K=25, F-G=8

22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: A-B=-33, B-D=-41(F=-2), D-F=-24(F=-2), I-K=-22(F=-2), G-I=-22(F=-2)

Horz: A-B=-17, B-D=-11, D-F=28, B-K=-8, F-G=-25

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-B=-60, B-D=-62(F=-2), D-F=-22(F=-2), I-K=-22(F=-2), G-I=-22(F=-2)

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-B=-20, B-D=-22(F=-2), D-F=-62(F=-2), I-K=-22(F=-2), G-I=-22(F=-2)

25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-B=-50, B-D=-52(F=-2), D-F=-22(F=-2), I-K=-22(F=-2), G-I=-22(F=-2)

26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-B=-20, B-D=-22(F=-2), D-F=-52(F=-2), I-K=-22(F=-2), G-I=-22(F=-2)

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	M02	Scissor	7	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:48 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-ZAHJh9f20vNMNgj3qEV2m4vqy_FVDyvlm3Z0QmyFhbv

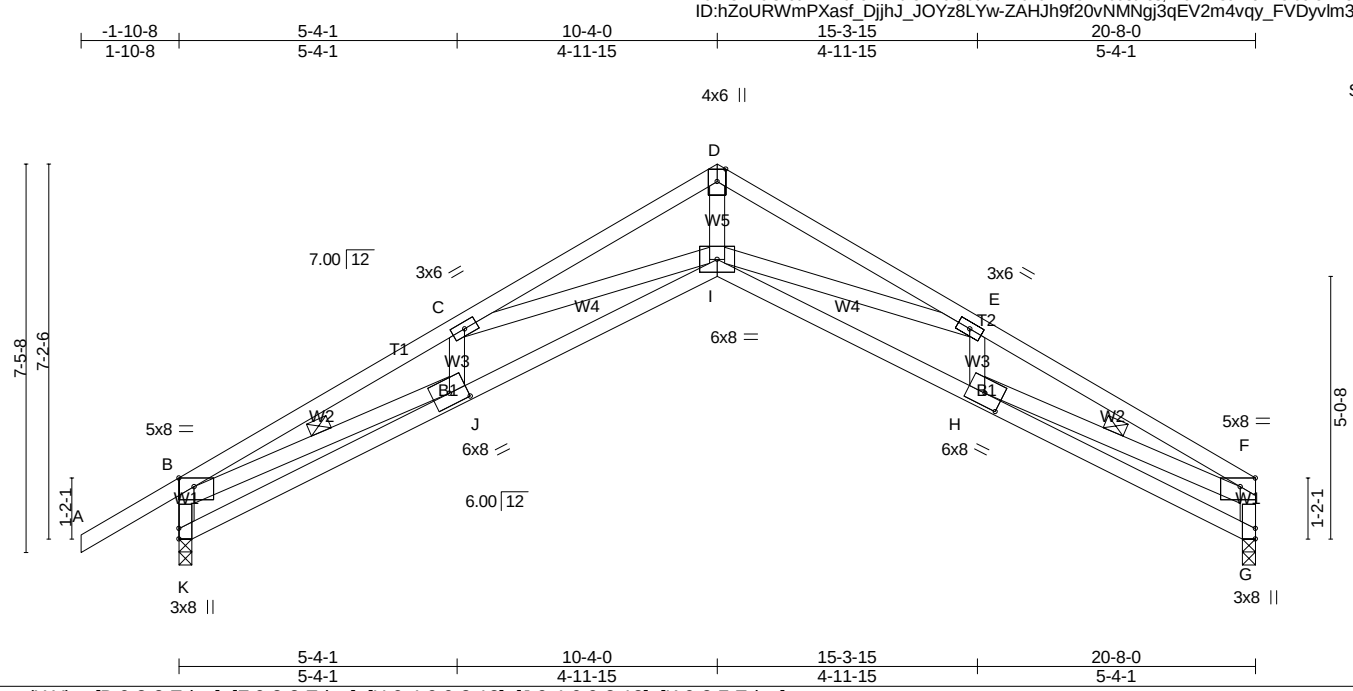


Plate Offsets (X,Y)-- [B:0-3-8,Edge], [F:0-3-8,Edge], [H:0-4-0,0-2-12], [J:0-4-0,0-2-12], [K:0-2-7,Edge]

LOADING (psf)		**SPACING-** 2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL 1.15	TC	0.89	Vert(LL)	-0.24	I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC	0.74	Vert(CT)	-0.48	H-I	>506	240		
BCLL	0.0 *	Rep Stress Incr YES	WB	0.98	Horz(CT)	-0.57	G	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-MS		Wind(LL)	0.55	H-I	>445	240	Weight: 113 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-8-10 oc bracing.
WEBS 1 Row at midpt B-J, F-H

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

REACTIONS. (lb/size) K=942/0-3-0 (min. 0-1-8), G=809/0-3-0 (min. 0-1-8)
Max Horz K=272(LC 9)
Max UpliftK=-273(LC 12), G=-204(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2680/3689, C-D=-2719/2989, D-E=-2721/2991, E-F=-2735/3703, B-K=-944/1180, F-G=-825/1072
BOT CHORD J-K=-308/371, I-J=-3090/2496, H-I=-3109/2560
WEBS D-I=-2799/2369, E-I=-430/858, E-H=-325/141, C-I=-225/795, C-J=-340/162, B-J=-2861/2199, F-H=-2966/2228

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) K, G considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) K=273, G=204.
7) 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	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	M03	Roof Special	2	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:49 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-1MrivVggnDVD_qIFNx1HJIR0bNbzyQku?jIazCyFhbu

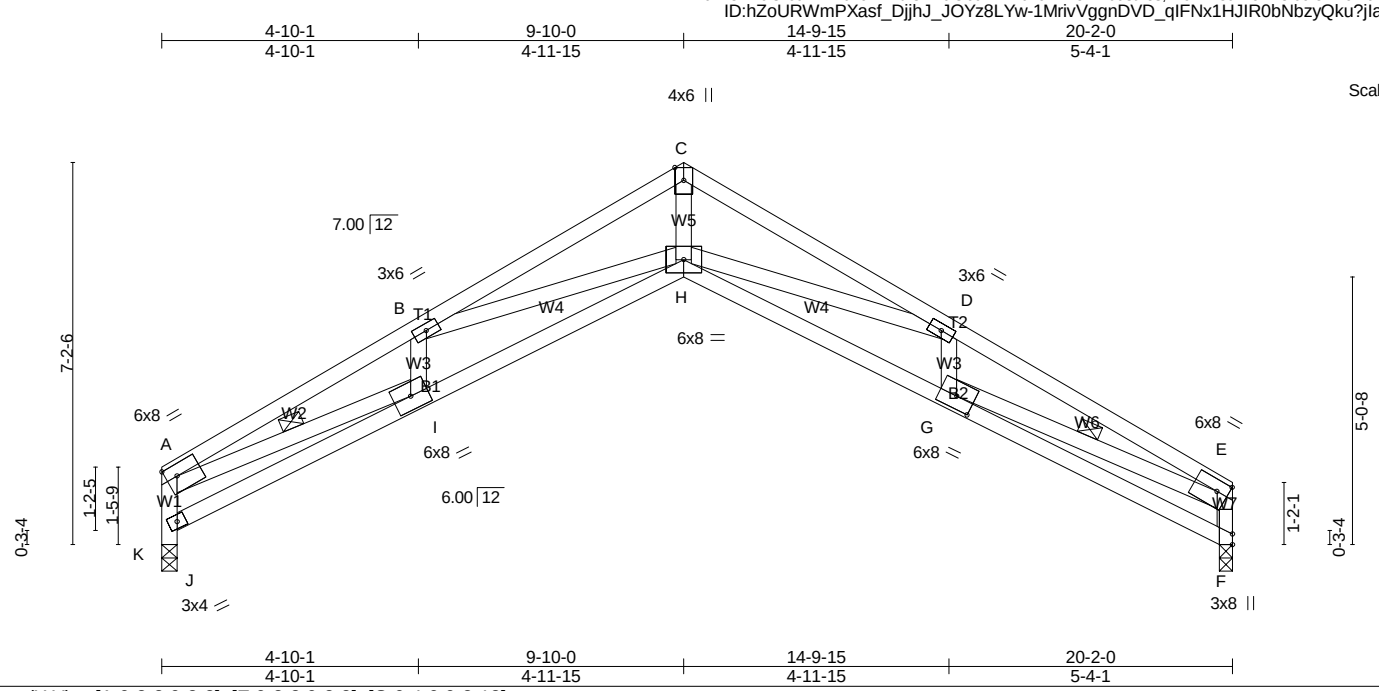


Plate Offsets (X,Y)-- [A:0-2-8,0-2-8], [E:0-2-8,0-2-8], [G:0-4-0,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.22	H	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.44	G-H	>538	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.94	Horz(CT)	-0.53	F	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.50	G-H	>478	240	Weight: 108 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1,W7: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-11-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-9-15 oc bracing.
WEBS 1 Row at midpt A-I, E-G

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

REACTIONS. (lb/size) F=795/0-3-0 (min. 0-1-8), K=795/0-3-8 (min. 0-1-8)
Max Horz K=-261(LC 10)
Max UpliftF=-200(LC 13), K=-196(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-2503/3358, B-C=-2630/2818, C-D=-2630/2818, D-E=-2677/3590, J-K=-795/1166, A-J=-799/1046, E-F=-811/1044
BOT CHORD I-J=-357/451, H-I=-2769/2342, G-H=-3002/2505
WEBS B-H=-129/658, C-H=-2630/2282, D-H=-452/914, D-G=-317/139, A-I=-2656/2047, E-G=-2868/2177, B-I=-358/169

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) F, K considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) F=200, K=196.
7) 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	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	M04	Roof Special	4	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:49 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-1MrivVggnDVD_qIFNx1HJlR2uNctyRXu?jIazCyFhbu

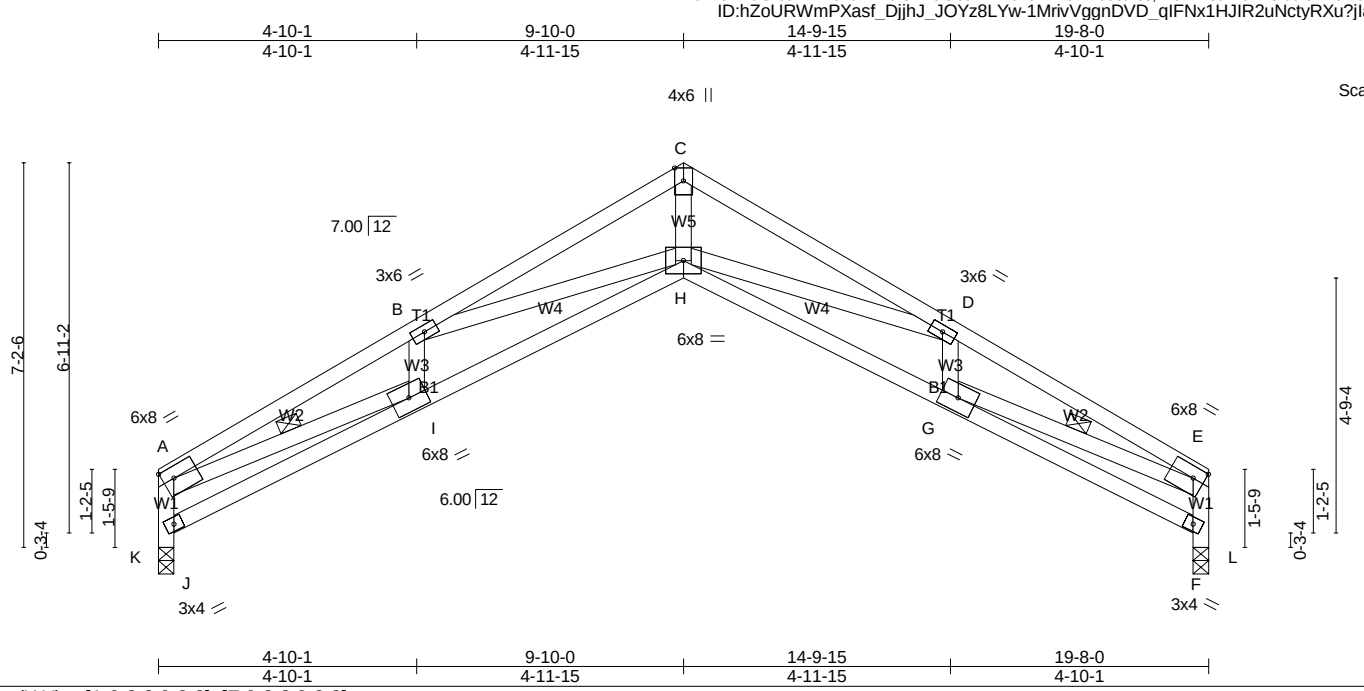


Plate Offsets (X,Y)-- [A:0-2-8,0-2-8], [E:0-2-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.19	H	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.39	H-I	>597	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.89	Horz(CT)	-0.50	L	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS		Wind(LL)	0.45	H-I	>514	240	Weight: 106 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-10-1 oc bracing.
WEBS 1 Row at midpt A-I, E-G

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

REACTIONS. (lb/size) K=775/0-3-8 (min. 0-1-8), L=775/0-3-8 (min. 0-1-8)
Max Horz K=256(LC 11)
Max UpliftK=-193(LC 12), L=-193(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-2427/3345, B-C=-2508/2787, C-D=-2508/2787, D-E=-2427/3316, J-K=-775/1137, A-J=-779/1047, F-L=-775/1137, E-F=-779/1021
BOT CHORD I-J=-368/442, H-I=-2811/2270, G-H=-2783/2270
WEBS C-H=-2599/2157, D-H=-396/725, B-H=-172/700, A-I=-2629/1981, E-G=-2668/1981, B-I=-348/166, D-G=-341/145

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) K, L considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) K=193, L=193.
7) 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	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	PB01	GABLE	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:51 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-zlzSKBiwJqmxE7RdVM3lOjXVCBPGQXBBT1ng14yFhbs

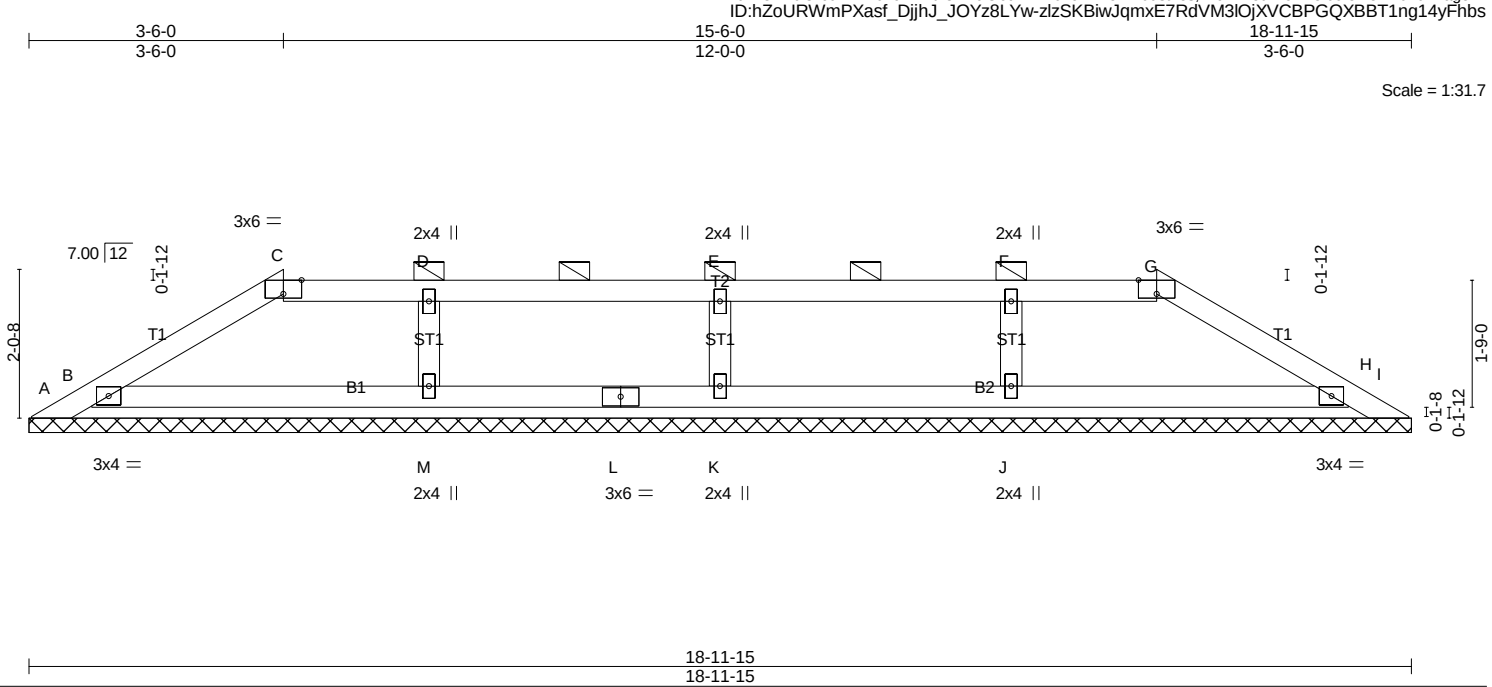


Plate Offsets (X,Y)-- [C:0-3-0,Edge], [G:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	I	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 61 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): C-G.
BOT CHORD Rigid ceiling directly applied or 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 18-11-15.
(lb) - Max Horz A=60(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) M, J except A=-142(LC 19), I=-117(LC 20), B=-178(LC 12), K=-127(LC 8), H=-156(LC 13)
Max Grav All reactions 250 lb or less at joint(s) A, I except B=397(LC 19), K=321(LC 23), M=322(LC 23), J=322(LC 24), H=374(LC 24)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) M, J except (jt=lb) A=142, I=117, B=178, K=127, H=156.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

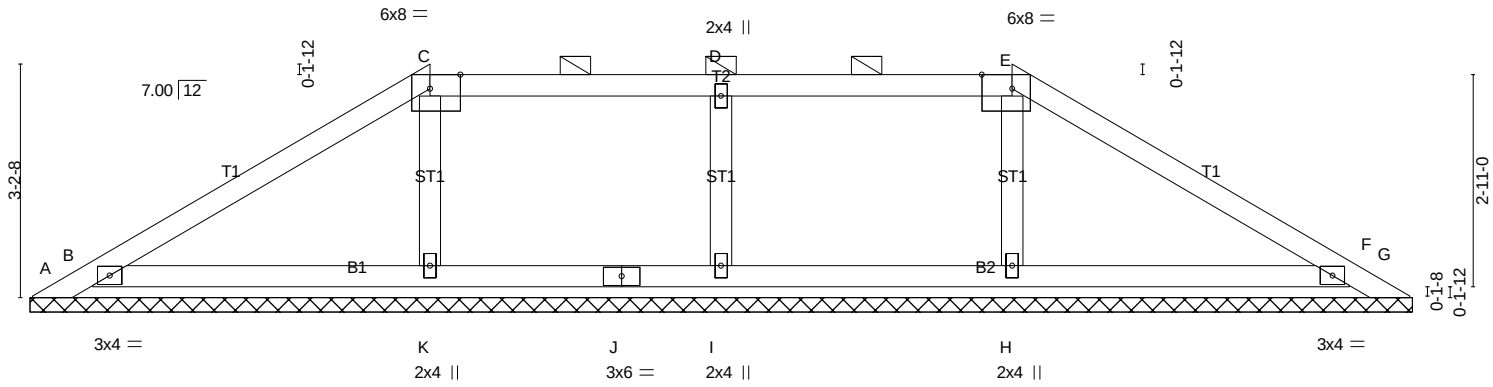
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	PB02	GABLE	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:52 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-SxXqXWjY38uorH0q33a_xw3eGbld9_GKhhXEZXyFhbr

5-6-0 | 13-6-0 | 18-11-15
5-6-0 | 8-0-0 | 5-6-0

Scale = 1:31.7



18-11-15
18-11-15

Plate Offsets (X,Y)-- [C:0-5-0,Edge], [E:0-5-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	F	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 67 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): C-E.
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 18-11-15.
(lb) - Max Horz A=-99(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) K, H except A=-286(LC 19), G=-249(LC 20), B=-304(LC 12), I=-148(LC 8), F=-287(LC 13)
Max Grav All reactions 250 lb or less at joint(s) A, G except B=531(LC 19), I=341(LC 23), K=321(LC 1), H=321(LC 1), F=512(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS D-I=-271/191

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) K, H except (jt=lb) A=286, G=249, B=304, I=148, F=287.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
12) 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	Marketplace, Lot 155 Mockingbird
2469517	PB03	Piggyback	2	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:53 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-w85ClsjBqR0eTRb0cn5DT8cpb?5puQSUwLGn6zyFhbq

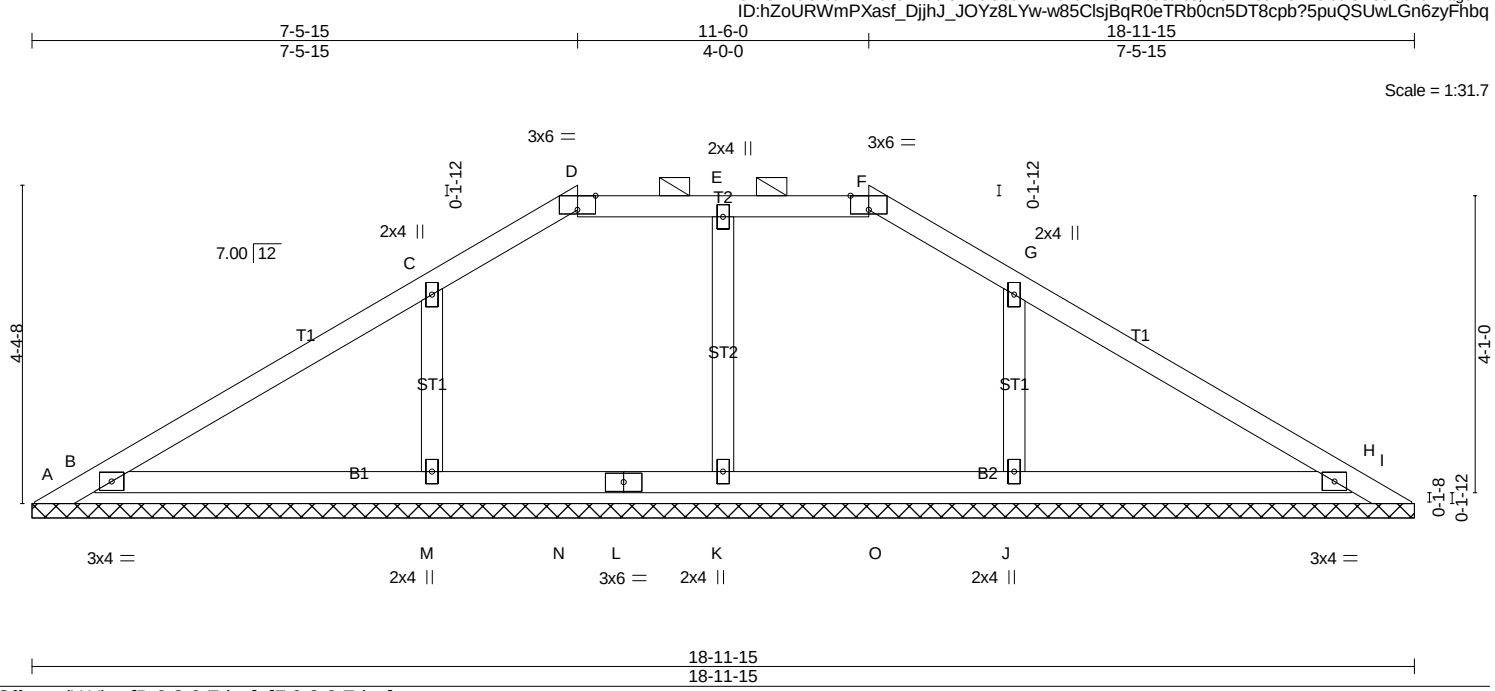


Plate Offsets (X,Y)-- [D:0-3-0,Edge], [F:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	H	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 70 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): D-F.
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 18-11-15.
(lb) - Max Horz A=-138(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) K except A=-256(LC 19), I=-206(LC 20), B=-240(LC 12), M=-170(LC 12), J=-166(LC 13), H=-204(LC 13)
Max Grav All reactions 250 lb or less at joint(s) A, I except B=492(LC 19), K=328(LC 2), M=390(LC 19), J=386(LC 20), H=455(LC 1)

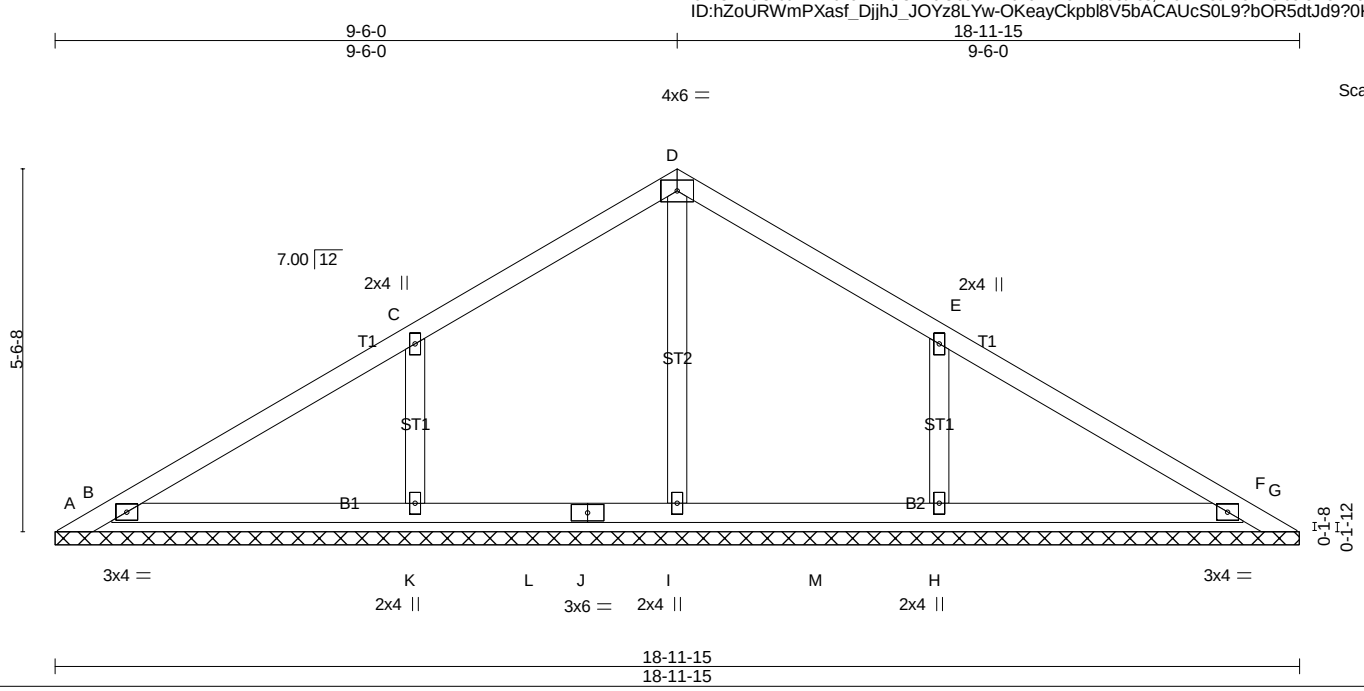
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-M=-289/224, G-J=-289/220

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 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 = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) K except (jt=lb) A=256, I=206, B=240, M=170, J=166, H=204.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
12) 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	Marketplace, Lot 155 Mockingbird
2469517	PB04	GABLE	13	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:54 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-OKeayCkpbl8V5bACAUcS0L9?bOR5dtJd9?0KePyFhbp



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	F	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 73 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.

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

REACTIONS. All bearings 18-11-15.
(lb) - Max Horz A=-179(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except A=-254(LC 19), G=-187(LC 20), B=-227(LC 12), K=-218(LC 12), H=-218(LC 13), F=-191(LC 13)
Max Grav All reactions 250 lb or less at joint(s) A, G except B=456(LC 19), I=353(LC 19), K=435(LC 19), H=434(LC 20), F=416(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-223/270
WEBS C-K=-347/272, E-H=-347/271

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 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 = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 254 lb uplift at joint A, 187 lb uplift at joint G, 227 lb uplift at joint B, 218 lb uplift at joint K, 218 lb uplift at joint H and 191 lb uplift at joint F.
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.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	PB05	GABLE	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:56 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-KjmLNum37MODKuKbIvfw5mELxC8C5nzwcJVRjIyFhbn

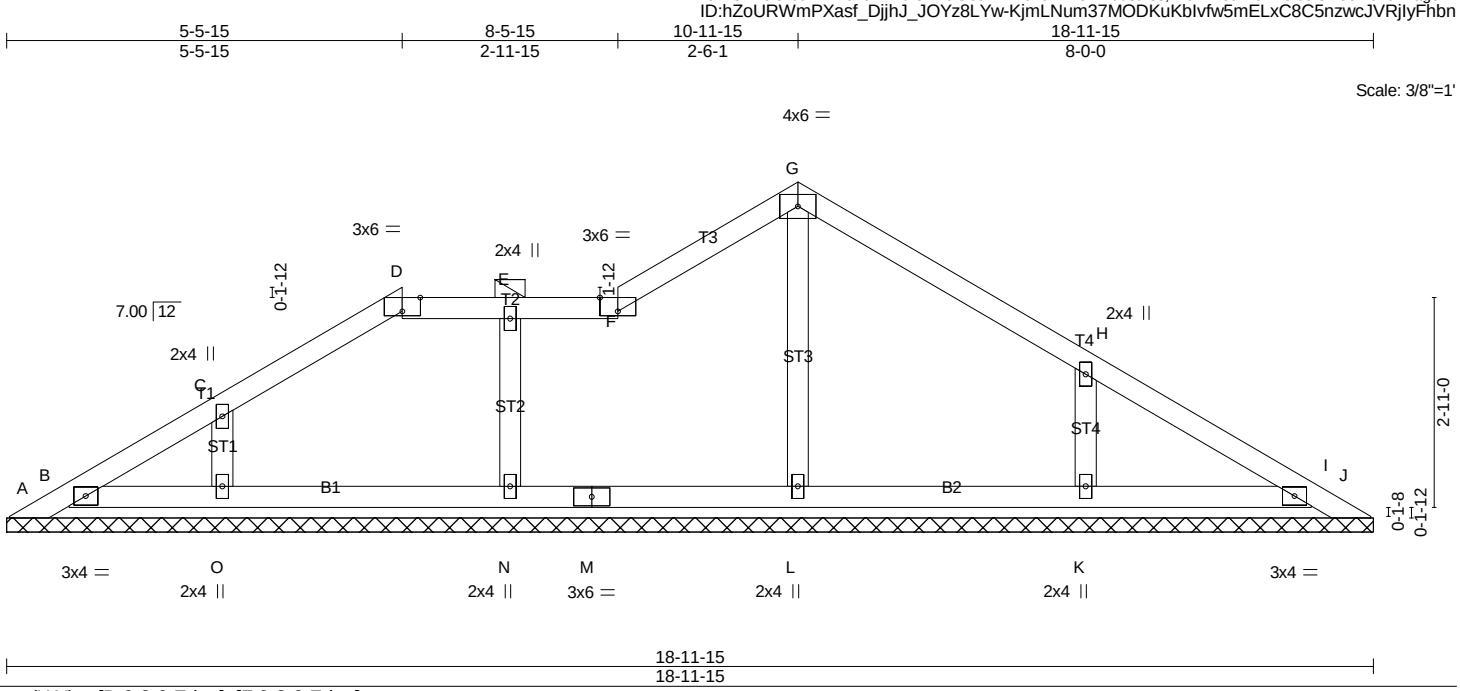


Plate Offsets (X,Y)-- [D:0-3-0,Edge], [F:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	I	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 71 lb	FT = 20%

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

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

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

REACTIONS. All bearings 18-11-15.
(lb) - Max Horz A=150(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) A, J, B, L, I except N=-165(LC 12), O=-146(LC 12), K=-190(LC 13)
Max Grav All reactions 250 lb or less at joint(s) A, J, B, I except L=297(LC 1), N=356(LC 23), O=292(LC 19), K=357(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS E-N=-274/214, H-K=-298/234

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, J, B, L, I except (jt=lb) N=165, O=146, K=190.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
12) 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	Marketplace, Lot 155 Mockingbird
2469517	PB06	GABLE	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:57 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-ovKjaEmhugW4y2vnrdA9e_nWScTOqEN3rzE?FkyFhbm

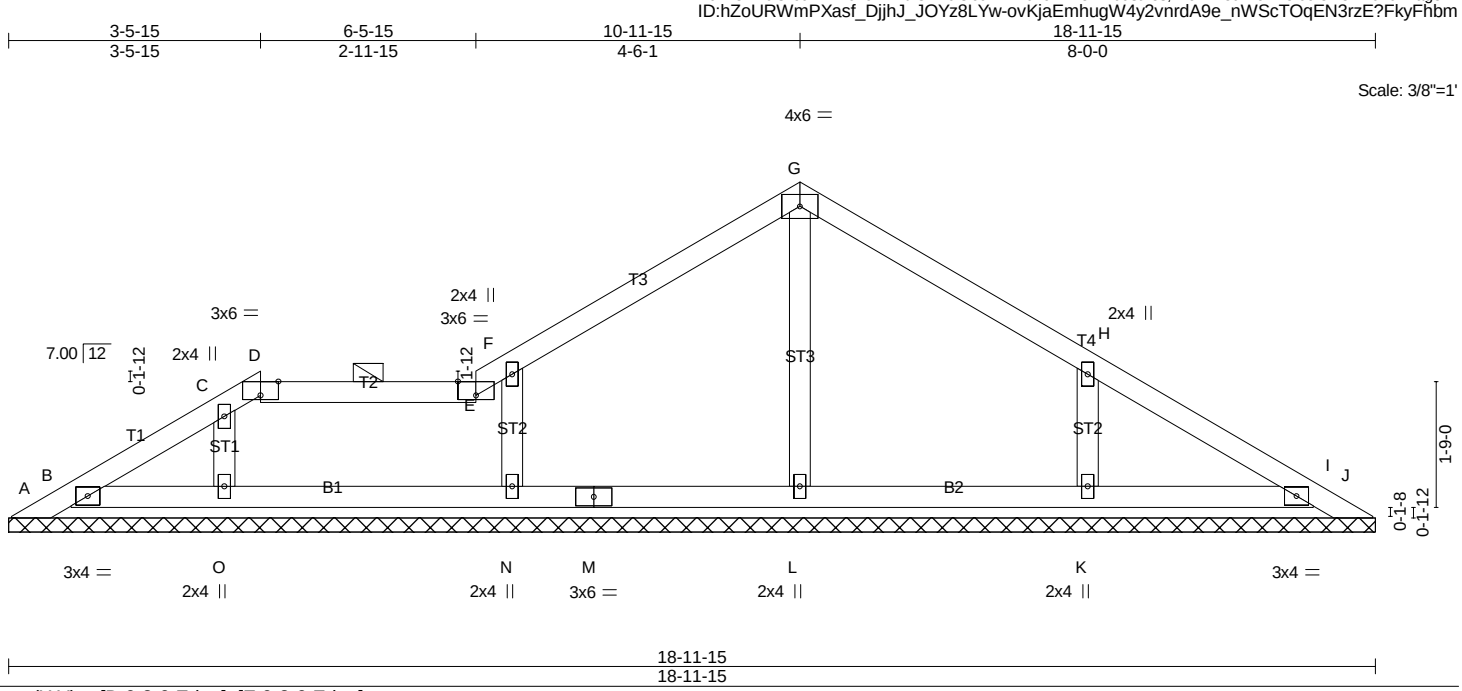


Plate Offsets (X,Y)-- [D:0-3-0,Edge], [E:0-3-0,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	I	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 70 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): D-E.
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 18-11-15.
(lb) - Max Horz A=150(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) J, B, I except A=-102(LC 8), N=-177(LC 12), O=-111(LC 12), K=-191(LC 13)
Max Grav All reactions 250 lb or less at joint(s) A, J, B, I except L=263(LC 1), N=361(LC 23), O=251(LC 1), K=359(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS F-N=-290/231, H-K=-296/236

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) J, B, I except (jt=lb) A=102, N=177, O=111, K=191.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
12) 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	Marketplace, Lot 155 Mockingbird
2469517	PB07	GABLE	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:51:58 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-G5u5oanJf_exZCU_PKhOABJhz0pgZh8D4d_YnAyFhbl

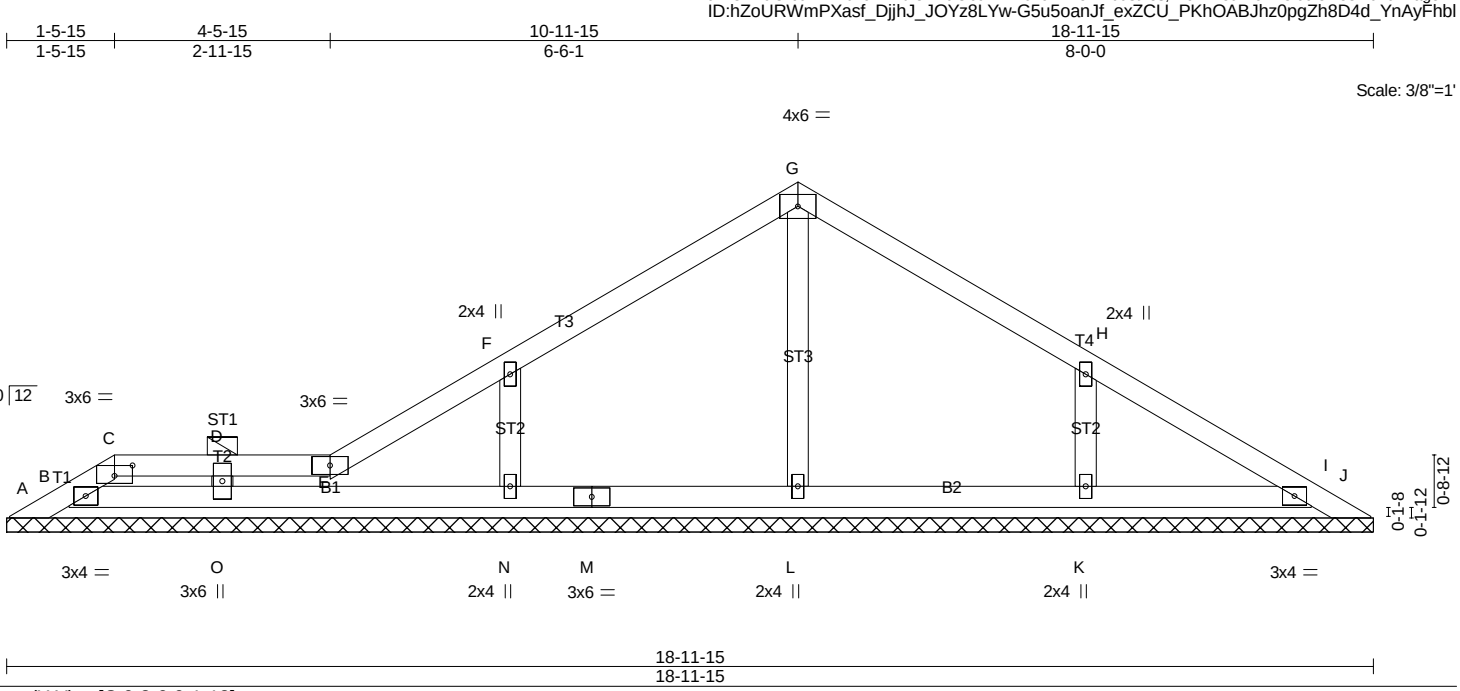


Plate Offsets (X,Y)-- [C:0-3-0,0-1-12]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	I	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 69 lb	FT = 20%

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

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

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

REACTIONS. All bearings 18-11-15.
(lb) - Max Horz A=150(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) A, J, I, O except B=-122(LC 12), N=-182(LC 12), K=-192(LC 13)
Max Grav All reactions 250 lb or less at joint(s) A, J, B, I except L=351(LC 1), N=361(LC 19), O=257(LC 1), K=360(LC 20)

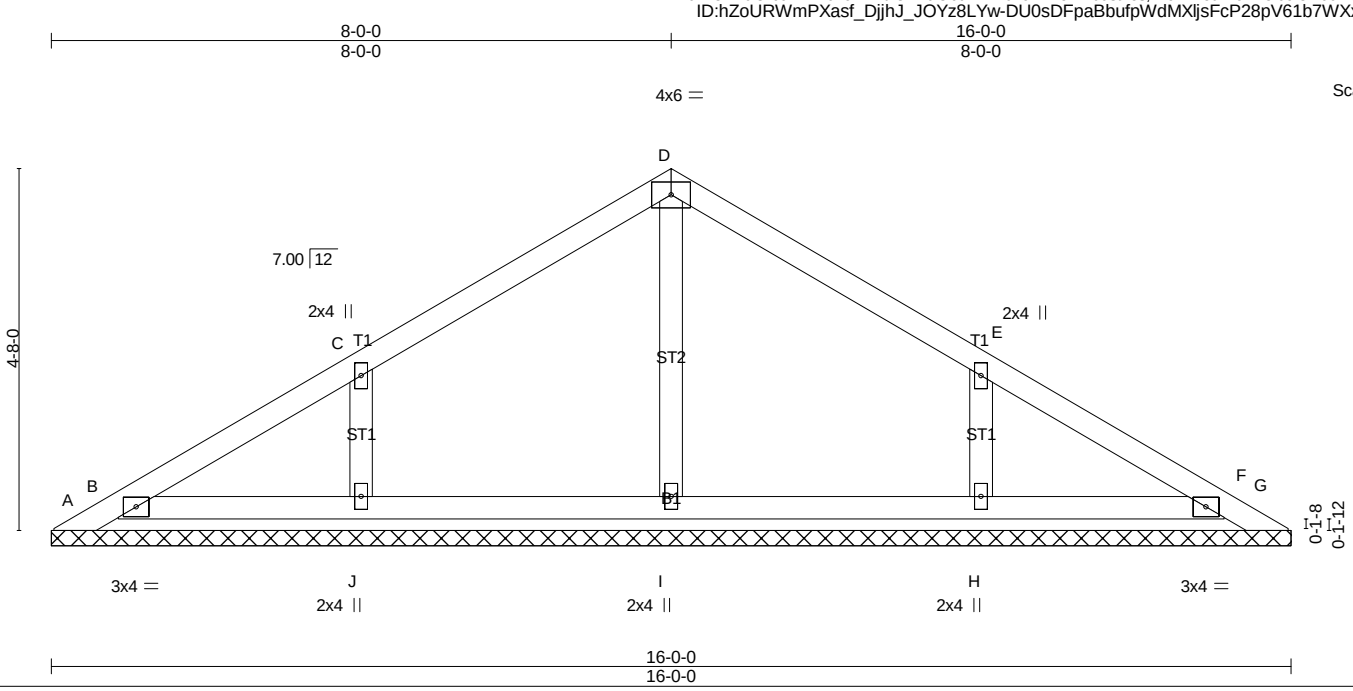
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS G-L=-271/52, F-N=-302/232, H-K=-299/236

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, J, I, O except (jt=lb) B=122, N=182, K=192.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
12) 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	Marketplace, Lot 155 Mockingbird
2469517	PB08	GABLE	5	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:52:00 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-DU0sDFpaBbufpWdMXljsFcP28pV61b7WXxTfs3yFhbj



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	F	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 59 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.

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

REACTIONS. All bearings 16-0-0.
(lb) - Max Horz A=-150(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) G, B, F except A=-100(LC 10), J=-192(LC 12), H=-191(LC 13)
Max Grav All reactions 250 lb or less at joint(s) A, G, B, F except I=271(LC 1), J=358(LC 19), H=357(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-J=-301/236, E-H=-301/235

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) G, B, F except (jt=lb) A=100, J=192, H=191.
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.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	PB09	GABLE	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:52:01 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-hgZEQbpCyv0WRgCY4SE5oqxEnDrFm3ffmbCCOVyFhbi

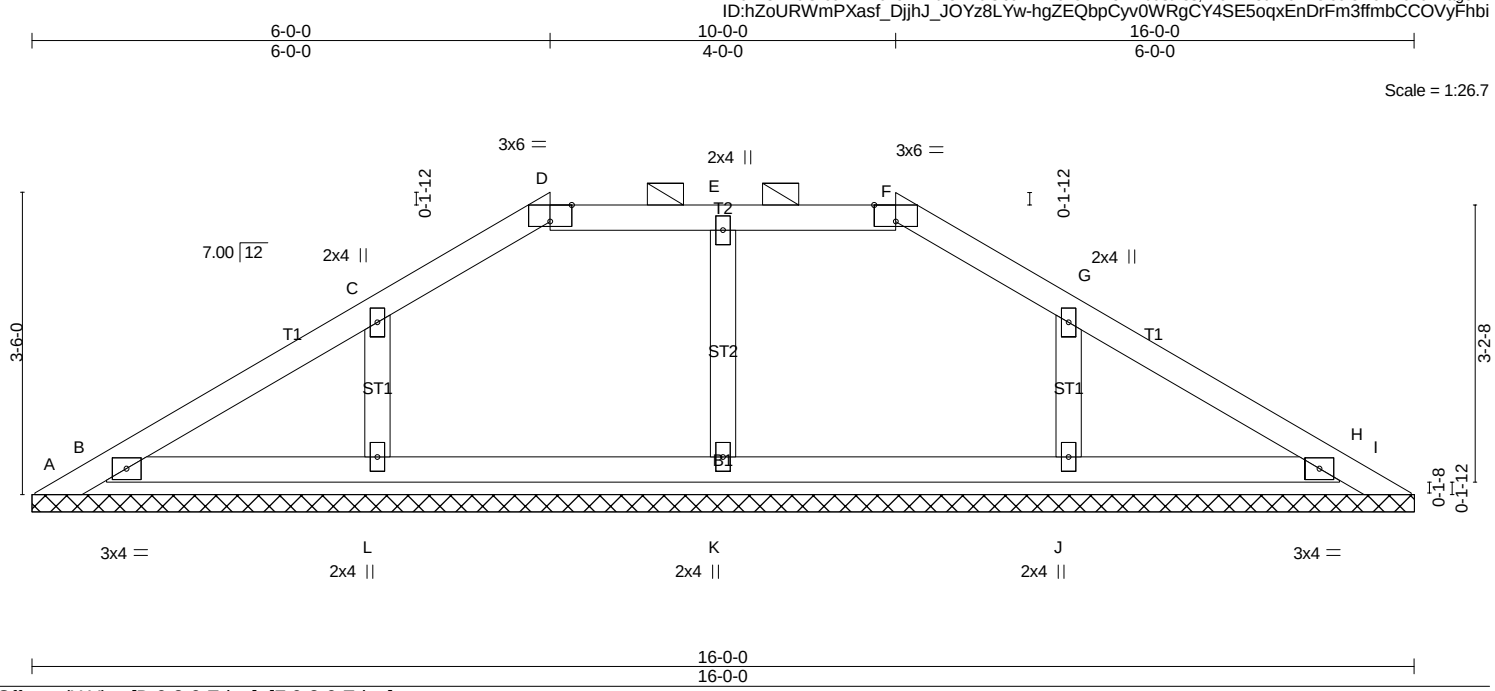


Plate Offsets (X,Y)-- [D:0-3-0,Edge], [F:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	I	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 57 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): D-F.
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 16-0-0.
(lb) - Max Horz A=-108(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) I, K except A=-103(LC 19), B=-131(LC 12), H=-103(LC 13), L=-128(LC 12), J=-125(LC 13)
Max Grav All reactions 250 lb or less at joint(s) A, I except B=292(LC 19), H=286(LC 1), K=260(LC 1), L=293(LC 19), J=289(LC 20)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) I, K except (jt=lb) A=103, B=131, H=103, L=128, J=125.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
12) 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	Marketplace, Lot 155 Mockingbird
2469517	PB10	GABLE	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:52:02 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-9s7cdxqqjC8N2pnleAlKL1UNndBbVWjo_FymwyyFhbh

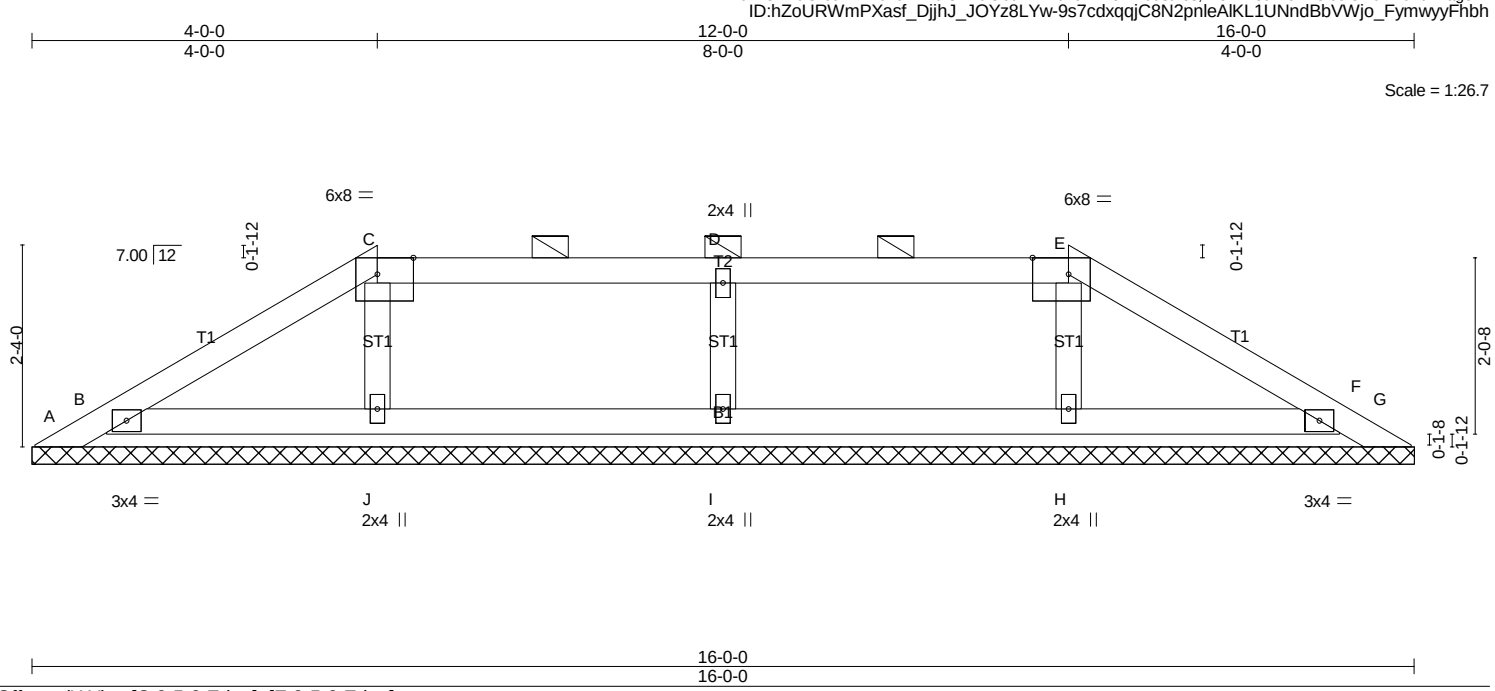


Plate Offsets (X,Y)-- [C:0-5-0,Edge], [E:0-5-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	F	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 53 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): C-E.
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 16-0-0.
(lb) - Max Horz A=70(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) G, J, H except A=-115(LC 19), B=-161(LC 12), F=-150(LC 13), I=-141(LC 8)
Max Grav All reactions 250 lb or less at joint(s) A, G except B=290(LC 19), F=277(LC 20), I=360(LC 23), J=263(LC 1), H=263(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS D-I=-278/212

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) G, J, H except (jt=lb) A=115, B=161, F=150, I=141.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
12) 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	Marketplace, Lot 155 Mockingbird
2469517	PB11	GABLE	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:52:03 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-d3h_rHrSUWGEgzMxCtHZtF1ZB1XiEz3yDvhJSOyFhbg

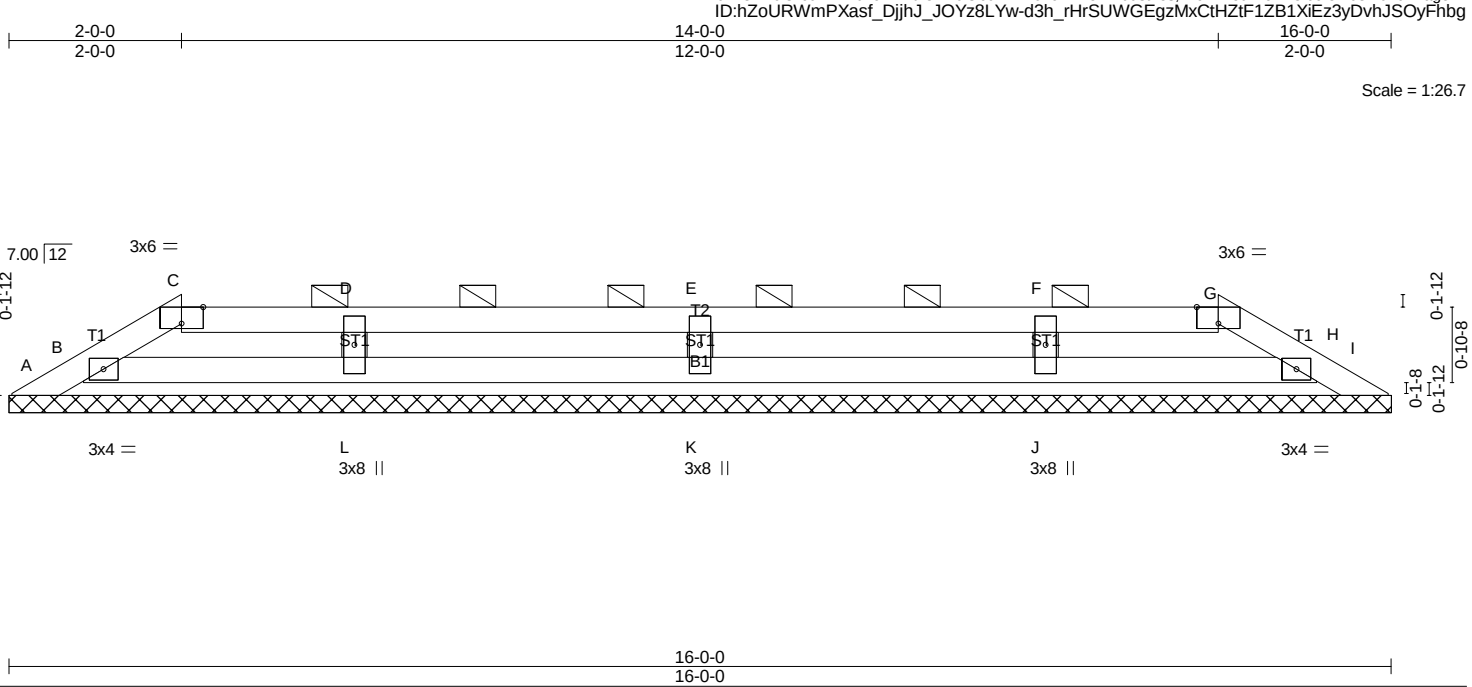


Plate Offsets (X,Y)-- [C:0-3-0,Edge], [G:0-3-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.01	I	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 47 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): C-G.
BOT CHORD Rigid ceiling directly applied or 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 16-0-0.
(lb) - Max Horz A=-31(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) A, I, B, L except K=-122(LC 9), J=-103(LC 8)
Max Grav All reactions 250 lb or less at joint(s) A, I, B except K=328(LC 23), L=289(LC 23), J=330(LC 24)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, I, B, L except (jt=lb) K=122, J=103.
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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

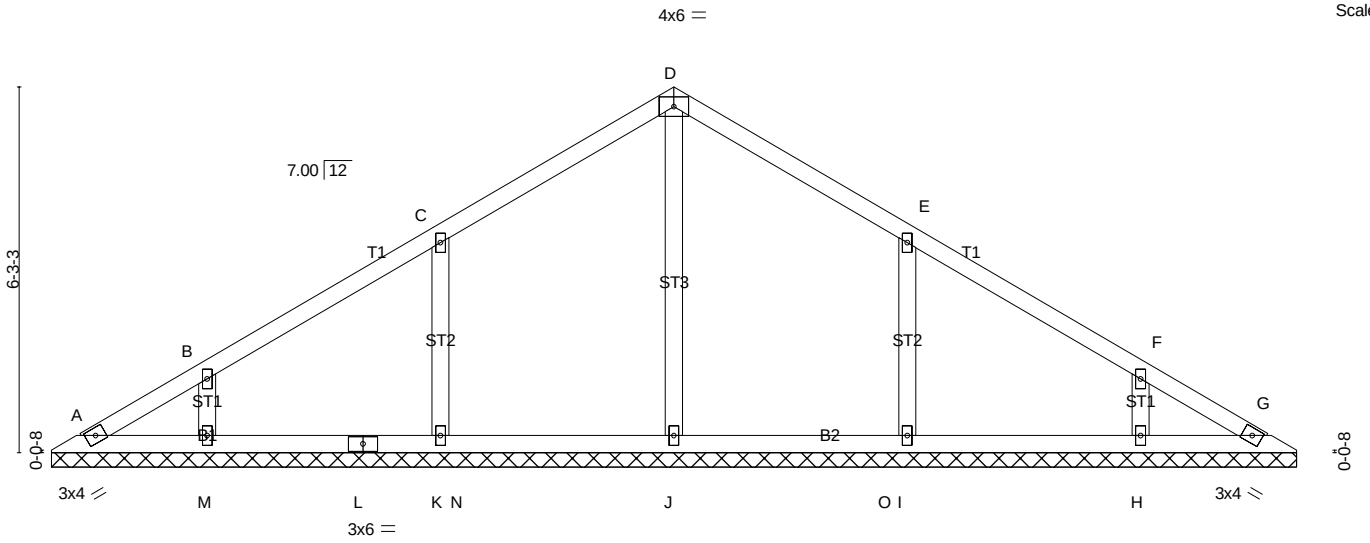
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	V01	Valley	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:52:04 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-5FFM2ds4FqO5I7x7mbooQSZjiQrvzPF5SZRs?qyFhbf

10-8-15 | 21-5-14
10-8-15 | 10-8-15

Scale = 1:39.5



21-5-0 | 21-5-14
21-5-0 | 0-0-14

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	G	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 88 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.

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

REACTIONS. All bearings 21-4-2.
(lb) - Max Horz A=199(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) A, G except K=-206(LC 12), M=-156(LC 12), I=-206(LC 13), H=-156(LC 13)
Max Grav All reactions 250 lb or less at joint(s) A, G except J=394(LC 19), K=436(LC 19), M=294(LC 19), I=436(LC 20), H=294(LC 20)

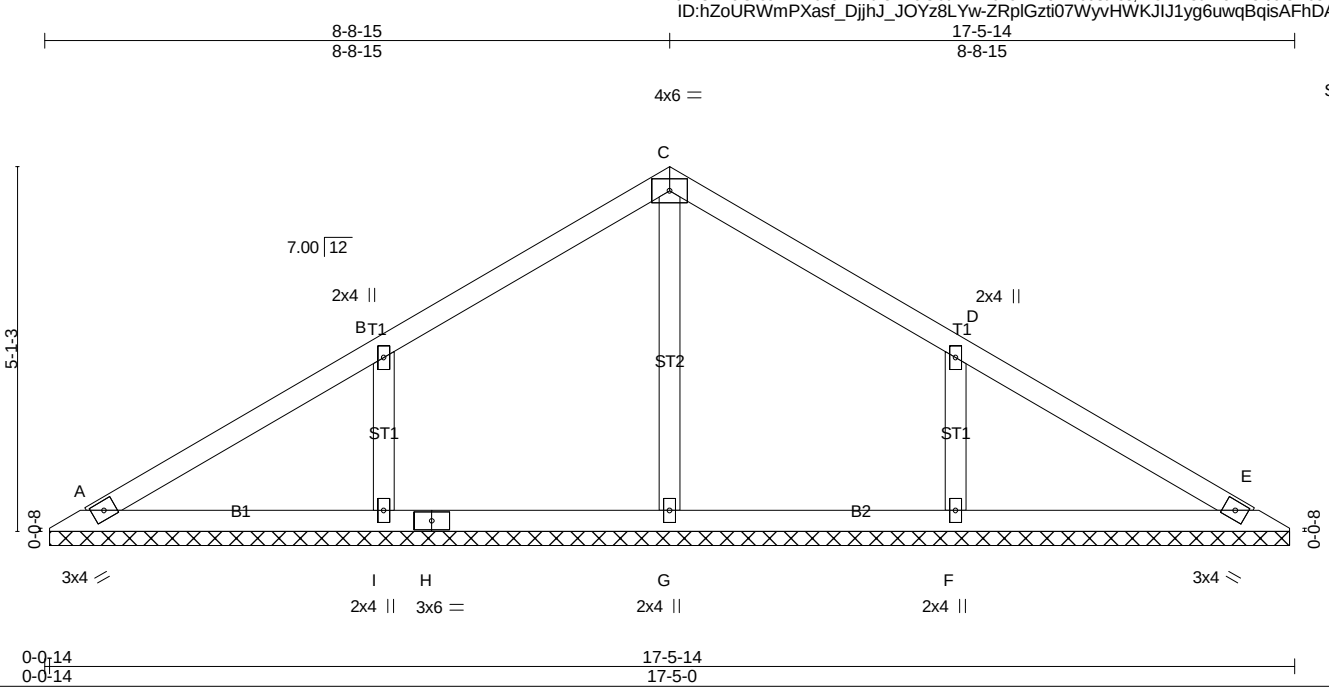
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-K=-326/256, B-M=-254/196, E-I=-326/256, F-H=-254/196

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, G except (jt=lb) K=206, M=156, I=206, H=156.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	V02	Valley	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:52:05 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-ZRplGzti07WyvHWKJlJ1yg6uwqBqisAFhDAQXGyFhbe



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	E	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 67 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.

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

REACTIONS. All bearings 17-4-2.
(lb) - Max Horz A=-160(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) A, E except I=-230(LC 12), F=-230(LC 13)
Max Grav All reactions 250 lb or less at joint(s) A, E, G except I=435(LC 19), F=434(LC 20)

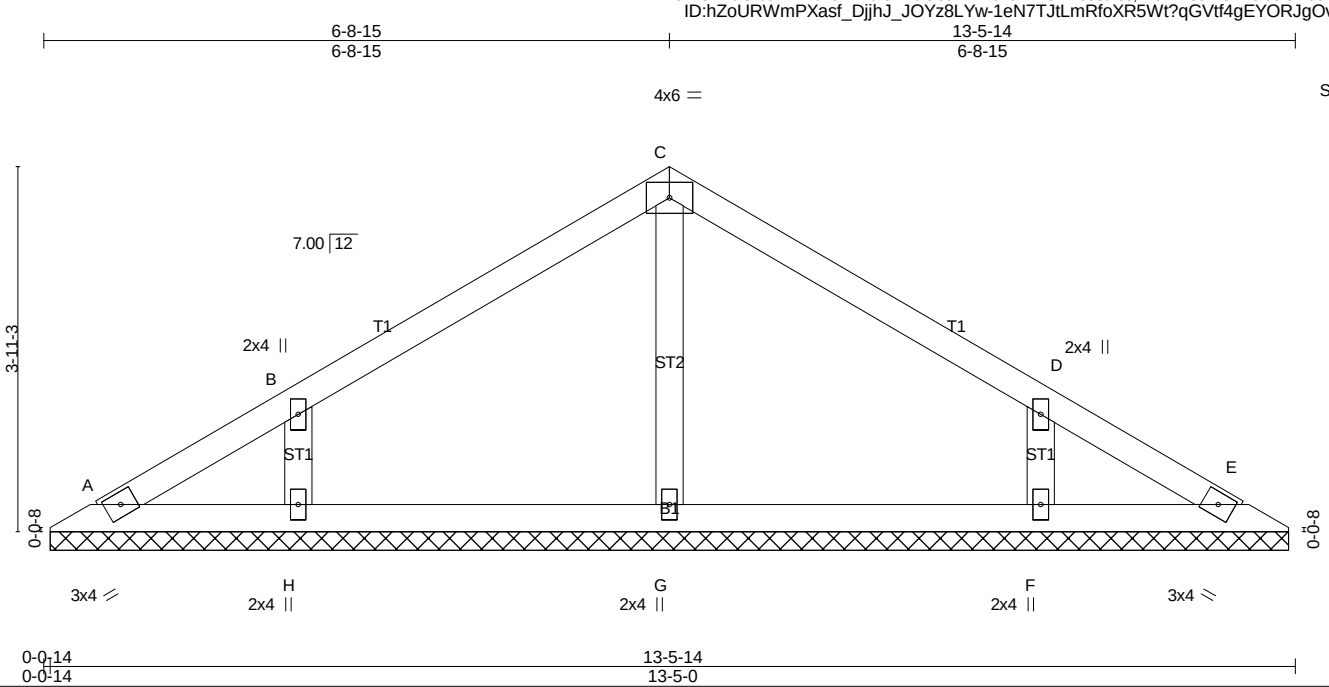
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-I=-356/276, D-F=-356/275

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, E except (jt=lb) I=230, F=230.
7) 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	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	V03	Valley	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:52:06 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-1eN7TJtLmRfoXR5Wt?qGVtf4gEYORJgOvtwz3jyFhbd



LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	E	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 49 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.

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

REACTIONS. All bearings 13-4-2.
(lb) - Max Horz A=-121(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) A, E except H=-183(LC 12), F=-183(LC 13)
Max Grav All reactions 250 lb or less at joint(s) A, E except G=276(LC 1), H=335(LC 19), F=335(LC 20)

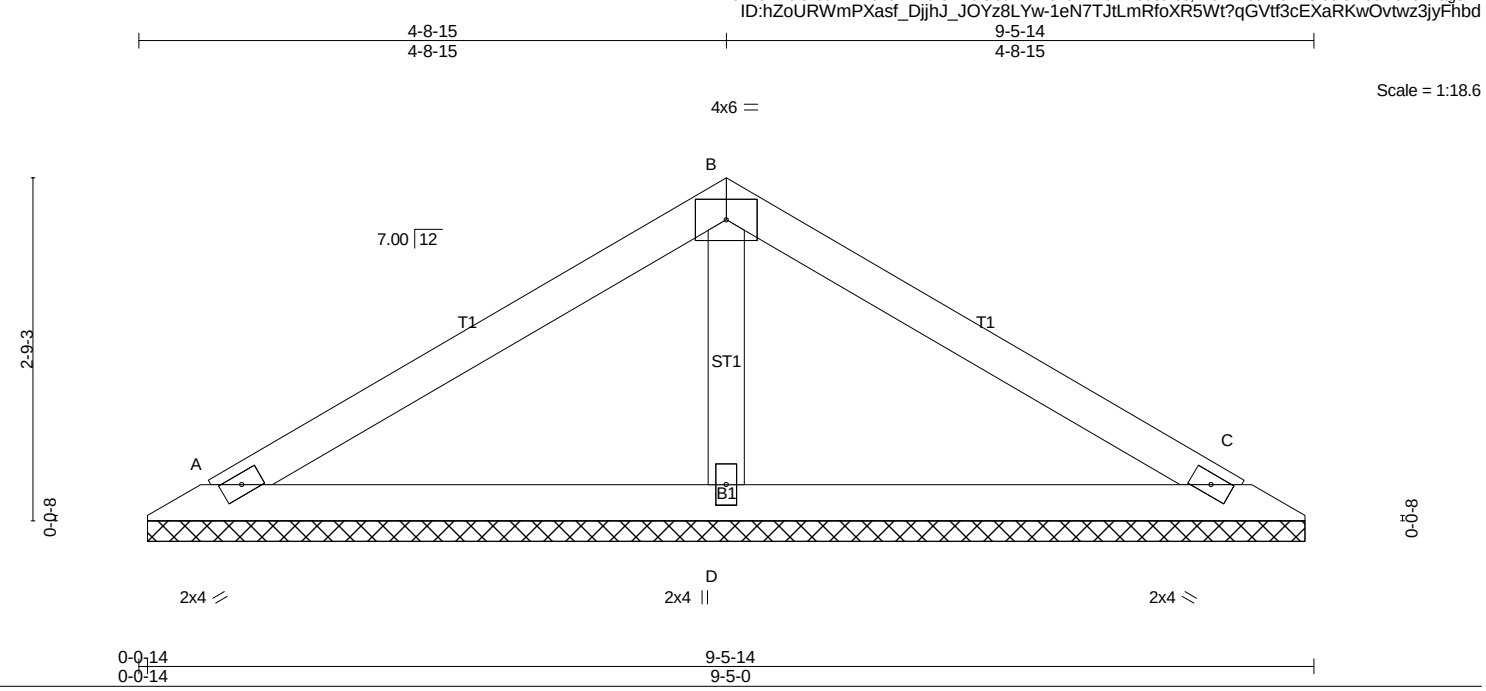
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-H=-287/225, D-F=-287/224

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, E except (jt=lb) H=183, F=183.
7) 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	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	V04	Valley	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:52:06 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-1eN7TJtLmRfoXR5Wt?qGVtf3cEXaRKwOvtwz3jyFhbd



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	C	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 31 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.

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

REACTIONS. (lb/size) A=158/9-4-2 (min. 0-1-8), C=158/9-4-2 (min. 0-1-8), D=350/9-4-2 (min. 0-1-8)
Max Horz A=-82(LC 10)
Max Uplift A=-57(LC 12), C=-68(LC 13), D=-57(LC 12)
Max Grav A=158(LC 1), C=164(LC 20), D=350(LC 1)

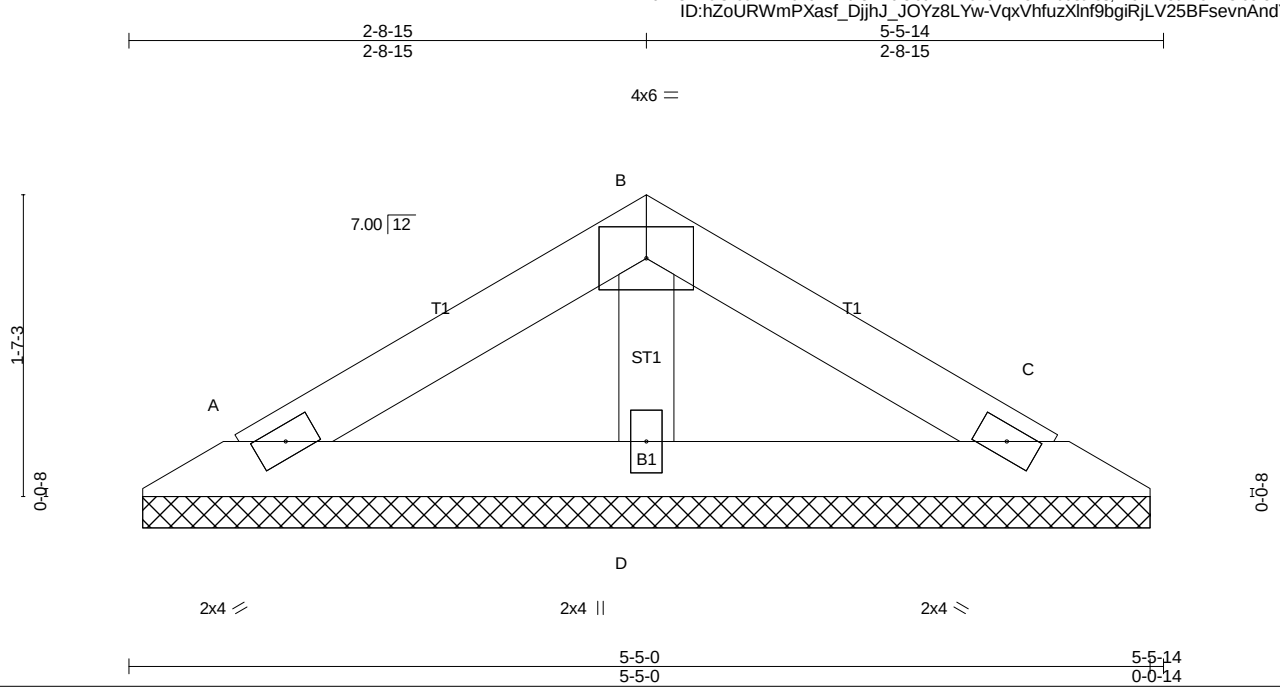
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C, D.
7) 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	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	V05	Valley	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:52:07 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-VqxVhfuzXlnf9bgiRjLV25BFsevnAndY8XfWb9yFhbc



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	C	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 17 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 5-5-14 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) A=91/5-4-2 (min. 0-1-8), C=91/5-4-2 (min. 0-1-8), D=164/5-4-2 (min. 0-1-8)
Max Horz A=-43(LC 10)
Max Uplift A=-36(LC 12), C=-42(LC 13), D=-16(LC 12)
Max Grav A=91(LC 1), C=92(LC 20), D=164(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C, D.
7) 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	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	V06	Valley	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:52:08 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-_0Vtu?vbI2vWmkFv?QskaIkPu2DuvCZhNBP48byFhbb

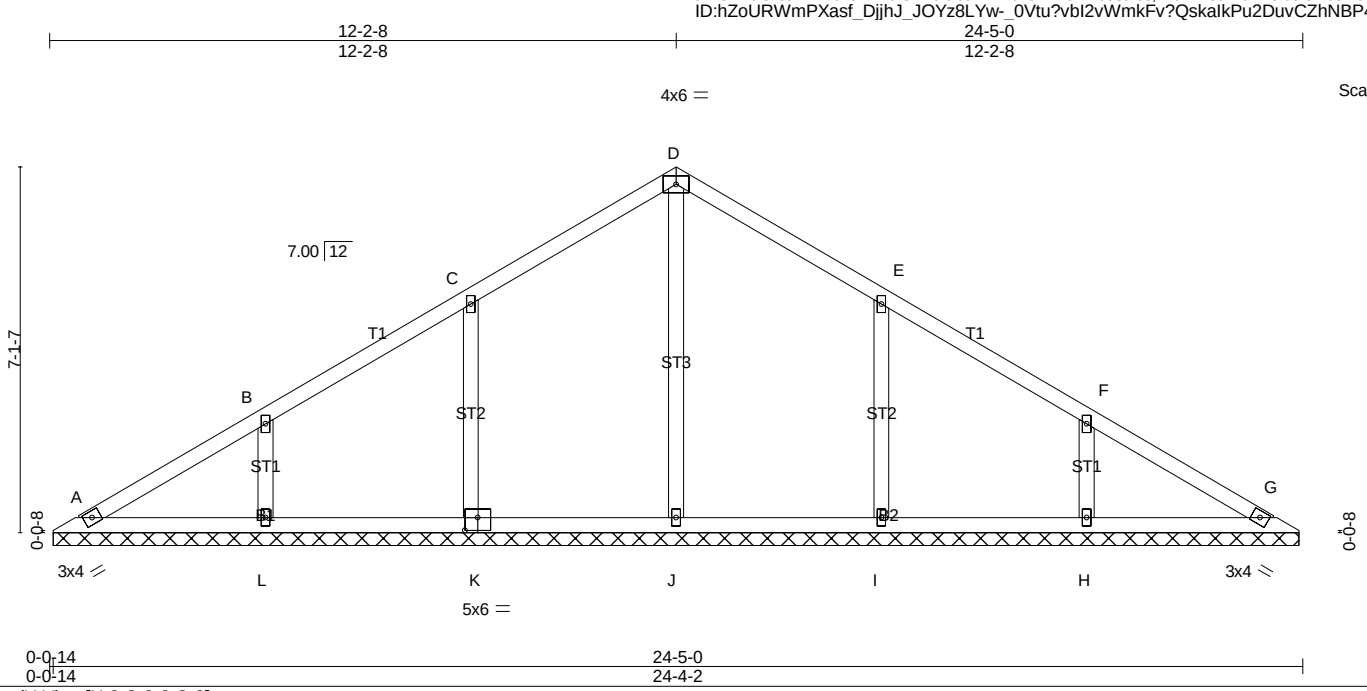


Plate Offsets (X,Y)-- [K:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	G	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 104 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.

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

REACTIONS. All bearings 24-3-5.
(lb) - Max Horz A=-227(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) A except K=-194(LC 12), L=-192(LC 12), I=-197(LC 13), H=-193(LC 13)
Max Grav All reactions 250 lb or less at joint(s) A, G except J=403(LC 19), K=421(LC 19), L=371(LC 19), I=430(LC 20), H=367(LC 20)

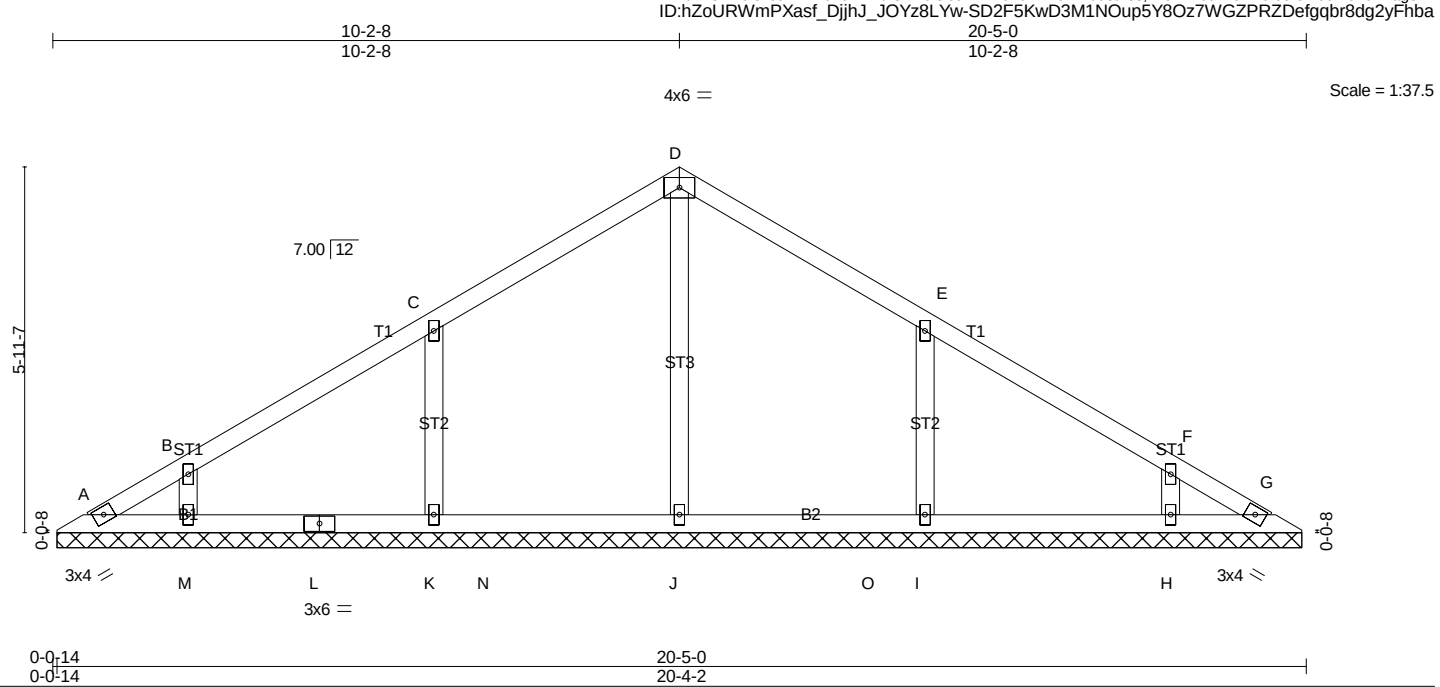
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-K=-308/243, B-L=-308/236, E-I=-313/247, F-H=-308/235

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A except (jt=lb) K=194, L=192, I=197, H=193.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	V07	Valley	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:52:09 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-SD2F5KwD3M1NOup5Y8Oz7WGZPRZDefgqbr8dg2yFhba



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	G	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 83 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.

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

REACTIONS. All bearings 20-3-5.
(lb) - Max Horz A=-188(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) A, G except K=-207(LC 12), M=-149(LC 12), I=-207(LC 13), H=-149(LC 13)
Max Grav All reactions 250 lb or less at joint(s) A, G except J=387(LC 19), K=423(LC 19), M=281(LC 19), I=423(LC 20), H=281(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-K=-327/257, E-I=-327/257

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, G except (jt=lb) K=207, M=149, I=207, H=149.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	V08	Valley	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:52:10 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-wPceJgwrqg9E02OH6rvCfjpk6rvKN6V_qUuBCUyFhbZ

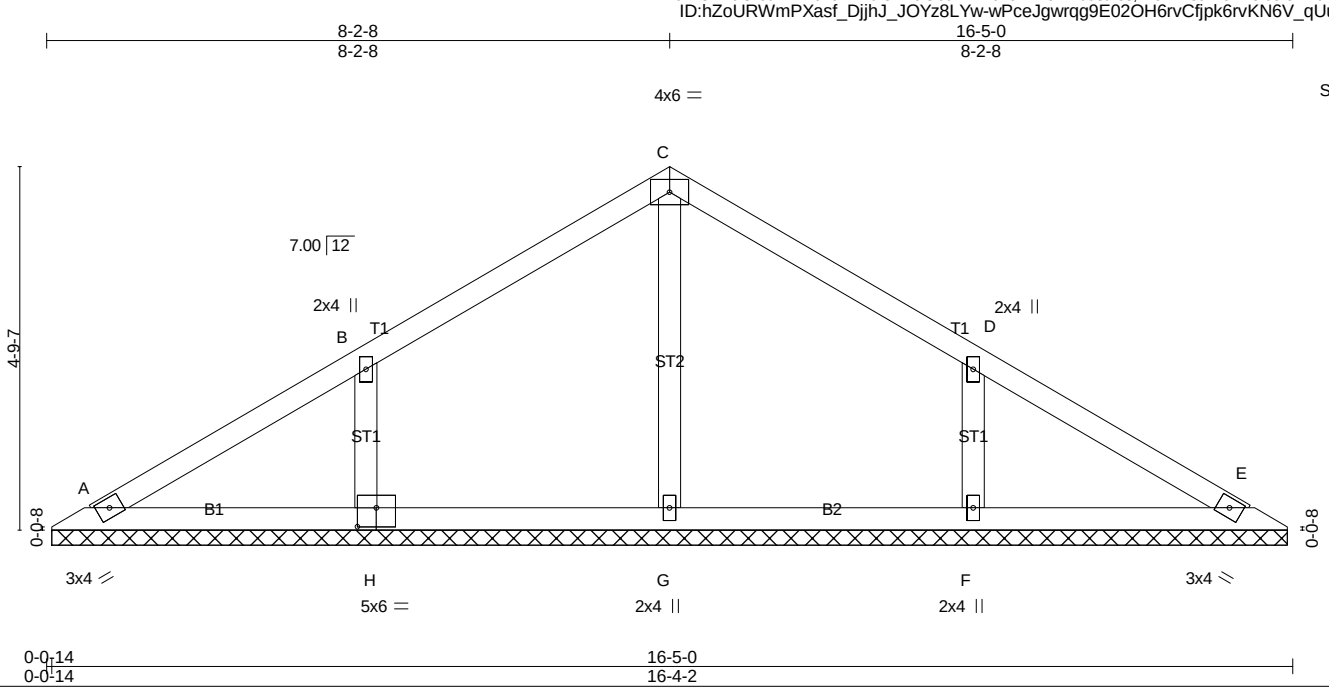


Plate Offsets (X,Y)-- [H:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	E	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 62 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.

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

REACTIONS. All bearings 16-3-5.
(lb) - Max Horz A=-149(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) A, E except H=-205(LC 12), F=-214(LC 13)
Max Grav All reactions 250 lb or less at joint(s) A, E except G=257(LC 1), H=391(LC 19), F=402(LC 20)

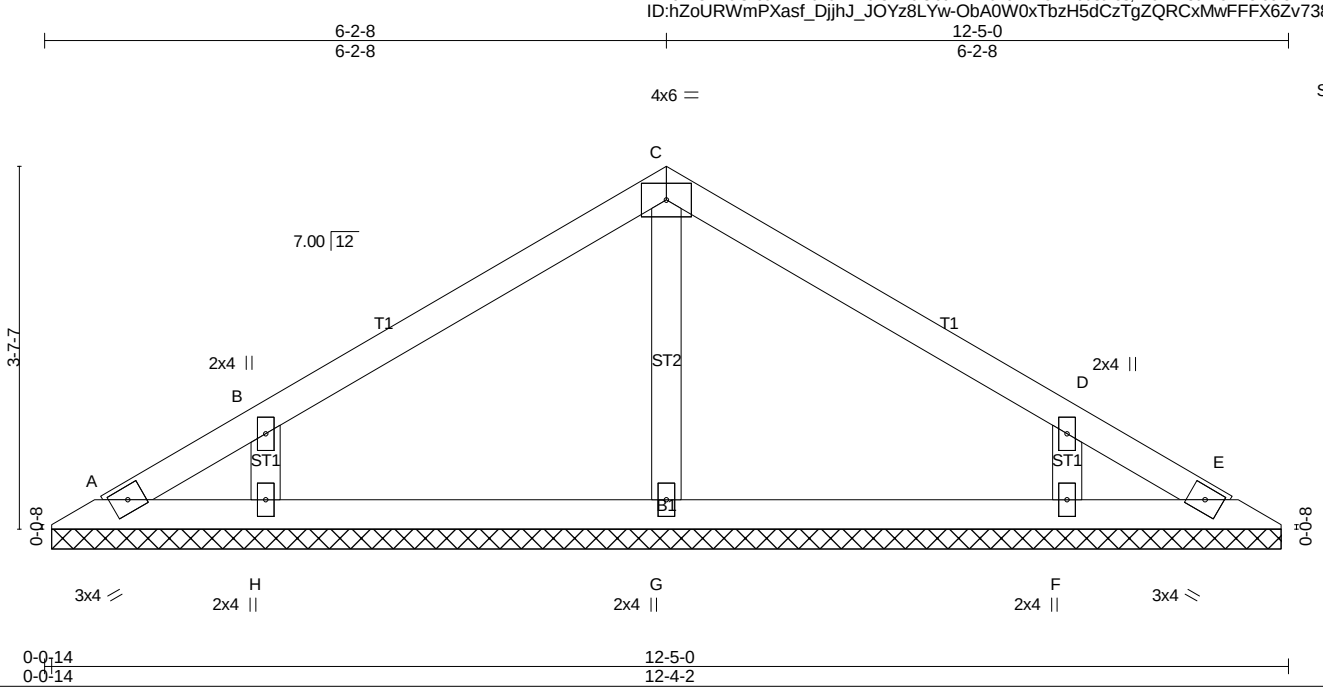
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-H=-321/249, D-F=-332/257

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, E except (jt=lb) H=205, F=214.
7) 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	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	V09	Valley	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:52:11 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-ObA0W0xTbzH5dCzTgZQRCxMwFFFX6Zv738dkkwyFhbY



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	E	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 44 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.

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

REACTIONS. All bearings 12-3-5.
(lb) - Max Horz A=-110(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) A, E, G except H=-181(LC 12), F=-180(LC 13)
Max Grav All reactions 250 lb or less at joint(s) A, E except G=277(LC 1), H=327(LC 19), F=326(LC 20)

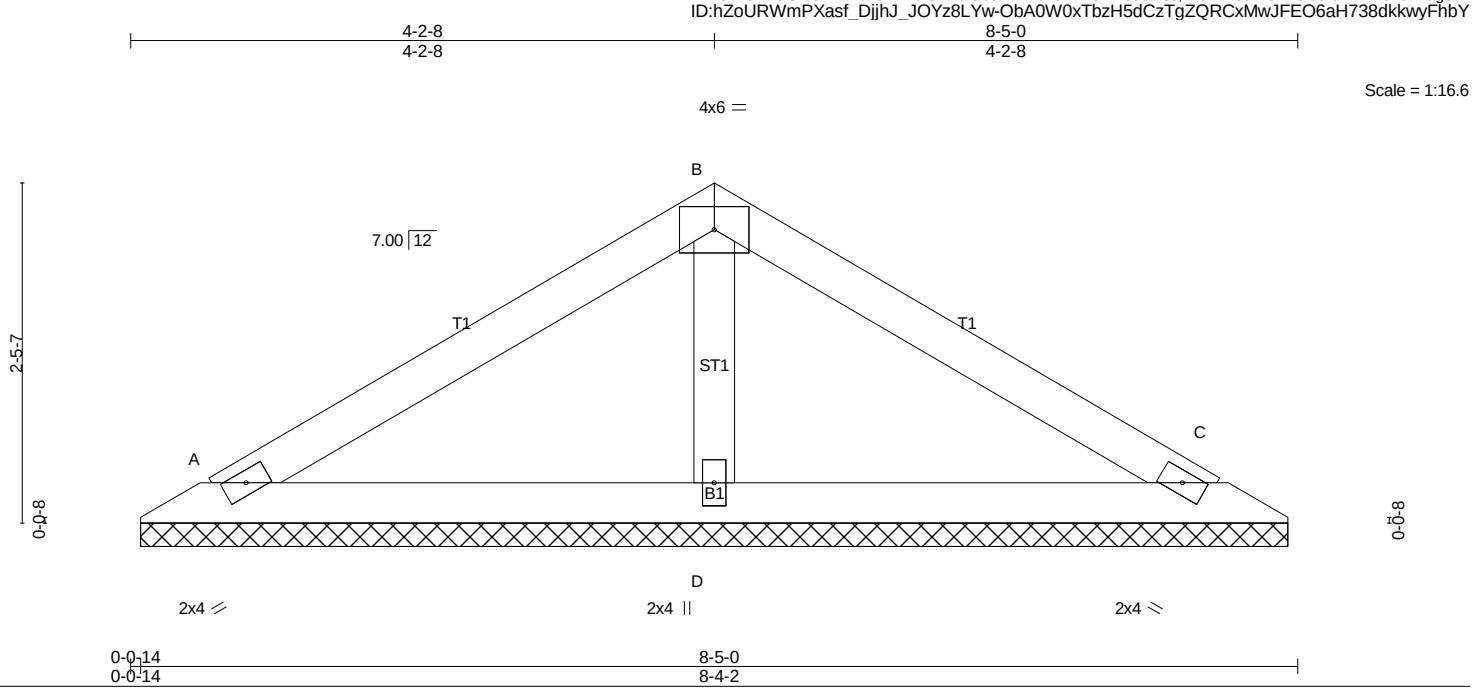
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-H=-285/225, D-F=-285/224

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, E, G except (jt=lb) H=181, F=180.
7) 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	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	V10	Valley	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:52:11 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-ObA0W0xTbzH5dCzTgZQRCxMwJFEO6aH738dkkwyFhbY



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	C	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S							Weight: 28 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.

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

REACTIONS. (lb/size) A=138/8-3-5 (min. 0-1-8), C=138/8-3-5 (min. 0-1-8), D=305/8-3-5 (min. 0-1-8)
Max Horz A=71(LC 11)
Max Uplift A=-50(LC 12), C=-59(LC 13), D=-50(LC 12)
Max Grav A=138(LC 1), C=143(LC 20), D=305(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C, D.
7) 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	Truss	Truss Type	Qty	Ply	Marketplace, Lot 155 Mockingbird
2469517	V11	Valley	1	1	Job Reference (optional)

Run: 8.240 s Jul 14 2019 Print: 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Nov 25 09:52:12 2020 Page 1
ID:hZoURWmPXasf_DjjhJ_JOYz8LYw-sokOkMy5MHPyFMYgEGxgl8u77fagr1BHIoNHHNyFhbX

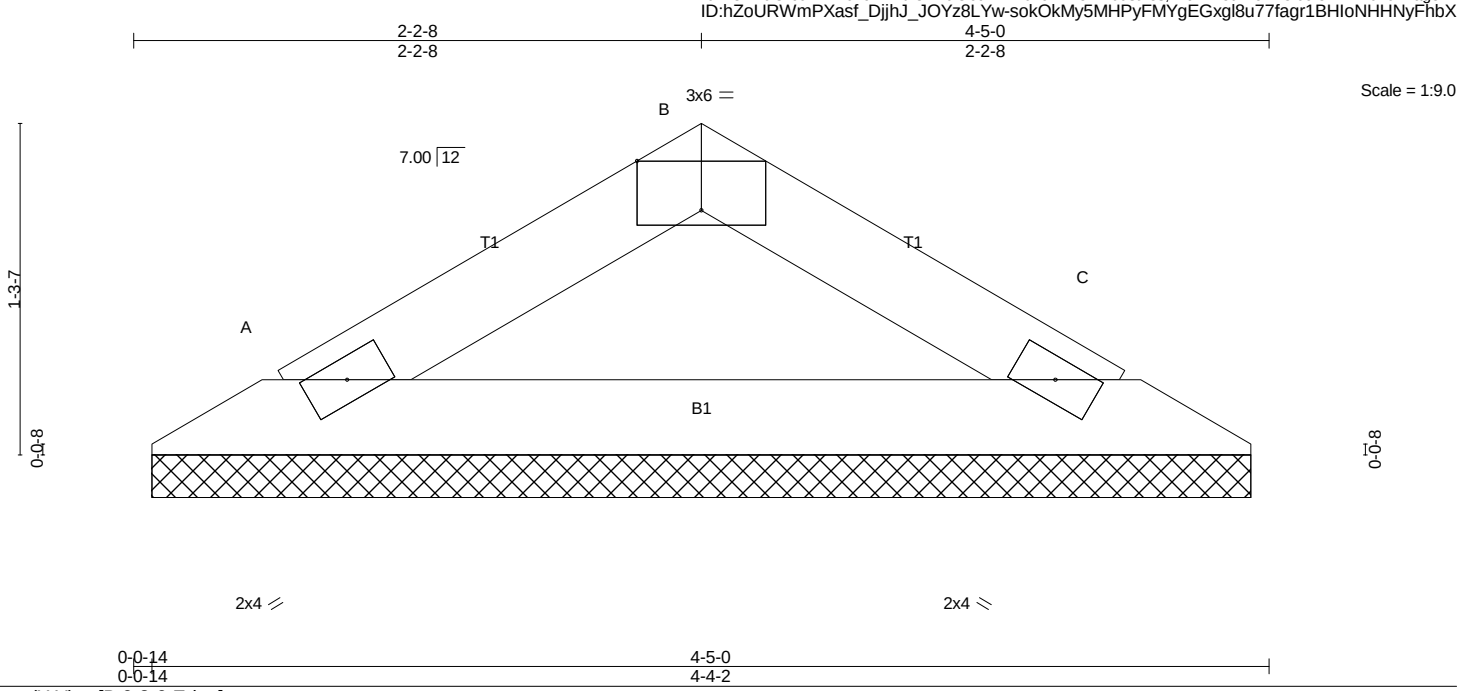


Plate Offsets (X,Y)-- [B:0-3-0,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	C	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-P							Weight: 12 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-0 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) A=130/4-3-5 (min. 0-1-8), C=130/4-3-5 (min. 0-1-8)
Max Horz A=-32(LC 10)
Max UpliftA=-33(LC 12), C=-33(LC 13)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C.
7) 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