

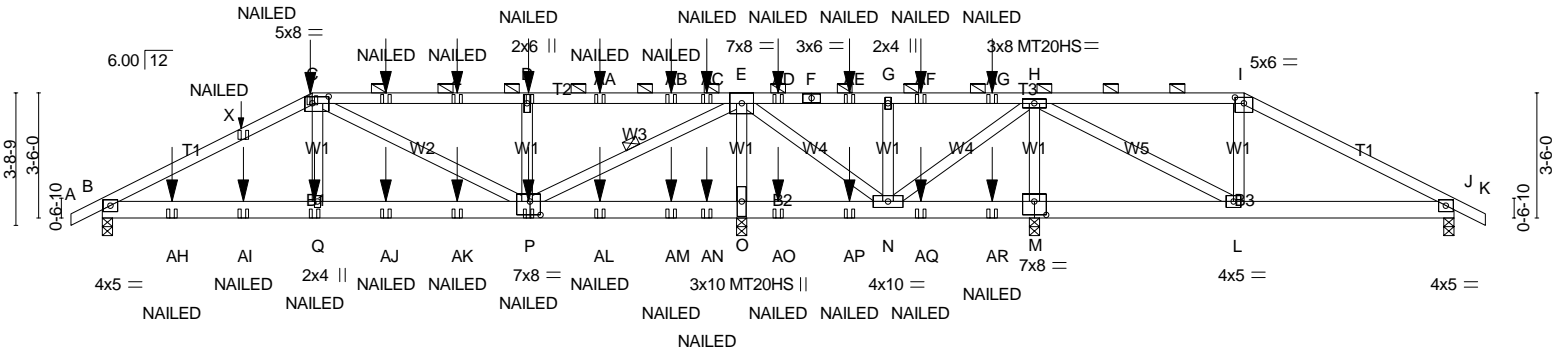
Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	A01	Hip Girder	1	1	

Builders FirstSource, N. Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Mon Jan 22 13:52:41 2018 Page 1
 ID:ght9E4_T2Ek4TgdRpkw?ez6kuZ-hsPlcfnNxLid1m093UvrWEVBtskFisCgy_5xhRzsoQ4

-Q-10-8	3-11-8	5-10-12	11-11-0	16-11-8	17-11-4	22-0-8	26-1-12	32-0-4	37-11-0	38-9-8
0-10-8	3-11-8	1-11-4	6-0-4	5-0-8	0-11-12	4-1-4	4-1-4	5-10-8	5-10-12	0-10-8

Scale: 3/16"=1'



1-11-8	3-11-8	5-10-12	11-11-0	16-11-8	17-11-4	22-0-8	26-1-12	32-0-4	37-11-0
1-11-8	2-0-0	1-11-4	6-0-4	5-0-8	0-11-12	4-1-4	4-1-4	5-10-8	5-10-12

Plate Offsets (X,Y)-- [C:0-5-8,0-2-4], [I:0-3-0,0-2-0], [M:0-4-0,0-4-8], [P:0-3-8,0-4-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.82	Vert(LL)	-0.05	P-Q	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.53	Vert(TL)	-0.13	P-Q	>999	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.56	Horz(TL)	0.02	O	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.13	P-Q	>999	240		

Weight: 217 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* T2: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-11-1 oc purlins, except 2-0-0 oc purlins (4-7-7 max.): C-I.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt E-P

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

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz B=111(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) except B=-1040(LC 6), O=-3075(LC 5), M=-1429(LC 4), J=-415(LC 18)
 Max Grav All reactions 250 lb or less at joint(s) except B=1172(LC 11), O=2453(LC 1), M=970(LC 12), J=436(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-X=-1795/1534, C-X=-1701/1548, C-Y=-1313/1275, Y-Z=-1313/1275, D-Z=-1313/1275,
 D-AA=-1294/1248, AA-AB=-1294/1248, AB-AC=-1294/1248, E-AC=-1294/1248, E-AD=0/399,
 F-AD=0/399, F-AE=0/399, G-AE=0/399, G-AF=0/399, AF-AG=0/399, H-AG=0/399, H-I=-312/402,
 I-J=-434/351
 BOT CHORD B-AH=-1324/1539, AH-AI=-1324/1539, Q-AI=-1324/1539, Q-AJ=-1330/1557, AJ-AK=-1330/1557,
 P-AK=-1330/1557, P-AL=-713/864, AL-AM=-713/864, AM-AN=-713/864, O-AN=-713/864,
 O-AO=-713/864, AO-AP=-713/864, N-AP=-713/864, N-AQ=-245/412, AQ-AR=-245/412,
 M-AR=-245/412, L-M=-245/412, J-L=-107/319
 WEBS C-Q=-164/504, C-P=-275/264, D-P=-716/1031, E-P=-2206/2267, E-O=-2103/2705,
 E-N=-1230/678, G-N=-417/667, H-N=-643/89, H-M=-804/1194, H-L=-405/629, I-L=-151/254

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1040 lb uplift at joint B, 3075 lb uplift at joint O, 1429 lb uplift at joint M and 415 lb uplift at joint J.
 - 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) Load case(s) 4, 5, 6, 7, 8, 9, 15, 16, 17, 18, 19, 20 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	A01	Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource, N. Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Mon Jan 22 13:52:41 2018 Page 2
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NOTES-

- 13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-C=-60, C-I=-60, I-K=-60, R-U=-20
Concentrated Loads (lb)
Vert: C=-95(F) Q=-54(F) P=-54(F) D=-95(F) Y=-95(F) Z=-95(F) AA=-95(F) AB=-95(F) AC=-95(F) AD=-116(F) AE=-116(F) AF=-116(F) AG=-116(F) AH=-92(F)
AI=-151(F) AJ=-54(F) AK=-54(F) AL=-54(F) AM=-54(F) AN=-54(F) AO=-34(F) AP=-34(F) AQ=-34(F) AR=-34(F)
- 4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=49, B-C=14, C-I=75, I-J=41, J-K=29, O-R=-12, M-O=68(F=80), M-U=-12
Horz: A-B=-61, B-C=-26, I-J=53, J-K=41
Concentrated Loads (lb)
Vert: C=187(F) Q=29(F) P=29(F) D=158(F) X=59(F) Y=158(F) Z=158(F) AA=158(F) AB=158(F) AC=158(F) AD=215(F) AE=215(F) AF=215(F) AG=215(F) AH=48(F)
AI=135(F) AJ=29(F) AK=29(F) AL=29(F) AM=29(F) AN=29(F) AO=108(F) AP=108(F) AQ=108(F) AR=108(F)
- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=29, B-C=41, C-I=75, I-J=14, J-K=49, O-R=-12, M-O=68(F=80), M-U=-12
Horz: A-B=-41, B-C=-53, I-J=26, J-K=61
Concentrated Loads (lb)
Vert: C=174(F) Q=29(F) P=29(F) D=158(F) X=31(F) Y=158(F) Z=158(F) AA=158(F) AB=158(F) AC=158(F) AD=215(F) AE=215(F) AF=215(F) AG=215(F) AH=48(F)
AI=135(F) AJ=29(F) AK=29(F) AL=29(F) AM=29(F) AN=29(F) AO=108(F) AP=108(F) AQ=108(F) AR=108(F)
- 6) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=110, B-C=75, C-I=48, I-J=48, J-K=36, O-R=-12, M-O=68(F=80), M-U=-12
Horz: A-B=-122, B-C=-87, I-J=60, J-K=48
Concentrated Loads (lb)
Vert: C=172(F) Q=29(F) P=29(F) D=185(F) Y=185(F) Z=185(F) AA=185(F) AB=185(F) AC=185(F) AD=242(F) AE=242(F) AF=242(F) AG=242(F) AH=48(F) AI=135(F)
AJ=29(F) AK=29(F) AL=29(F) AM=29(F) AN=29(F) AO=108(F) AP=108(F) AQ=108(F) AR=108(F)
- 7) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=36, B-C=48, C-I=48, I-J=75, J-K=110, O-R=-12, M-O=68(F=80), M-U=-12
Horz: A-B=-48, B-C=-60, I-J=87, J-K=122
Concentrated Loads (lb)
Vert: C=185(F) Q=29(F) P=29(F) D=185(F) X=24(F) Y=185(F) Z=185(F) AA=185(F) AB=185(F) AC=185(F) AD=242(F) AE=242(F) AF=242(F) AG=242(F) AH=48(F)
AI=135(F) AJ=29(F) AK=29(F) AL=29(F) AM=29(F) AN=29(F) AO=108(F) AP=108(F) AQ=108(F) AR=108(F)
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=72, B-C=37, C-I=26, I-J=26, J-K=14, O-R=-12, M-O=68(F=80), M-U=-12
Horz: A-B=-84, B-C=-49, I-J=38, J-K=26
Concentrated Loads (lb)
Vert: C=202(F) Q=29(F) P=29(F) D=207(F) X=35(F) Y=207(F) Z=207(F) AA=207(F) AB=207(F) AC=207(F) AD=264(F) AE=264(F) AF=264(F) AG=264(F) AH=48(F)
AI=135(F) AJ=29(F) AK=29(F) AL=29(F) AM=29(F) AN=29(F) AO=108(F) AP=108(F) AQ=108(F) AR=108(F)
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=14, B-C=26, C-I=26, I-J=37, J-K=72, O-R=-12, M-O=68(F=80), M-U=-12
Horz: A-B=-26, B-C=-38, I-J=49, J-K=84
Concentrated Loads (lb)
Vert: C=207(F) Q=29(F) P=29(F) D=207(F) X=46(F) Y=207(F) Z=207(F) AA=207(F) AB=207(F) AC=207(F) AD=264(F)
AE=264(F) AF=264(F) AG=264(F) AH=48(F) AI=135(F) AJ=29(F) AK=29(F) AL=29(F) AM=29(F) AN=29(F) AO=108(F)
AP=108(F) AQ=108(F) AR=108(F)
- 15) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=49, B-C=14, C-I=75, I-J=41, J-K=29, O-R=-12, M-O=68(F=80), M-U=-12
Horz: A-B=-61, B-C=-26, I-J=53, J-K=41
Concentrated Loads (lb)
Vert: C=-23(F) Q=-8(F) P=-8(F) D=-23(F) Y=-23(F) Z=-23(F) AA=-23(F) AB=-23(F) AC=-23(F) AD=-29(F) AE=-29(F) AF=-29(F)
AG=-29(F) AH=7(F) AI=-46(F) AJ=-8(F) AK=-8(F) AL=-8(F) AM=-8(F) AN=-8(F) AO=-17(F) AP=-17(F) AQ=-17(F) AR=-17(F)
- 16) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=29, B-C=41, C-I=75, I-J=14, J-K=49, O-R=-12, M-O=68(F=80), M-U=-12
Horz: A-B=-41, B-C=-53, I-J=26, J-K=61
Concentrated Loads (lb)
Vert: C=-23(F) Q=-8(F) P=-8(F) D=-23(F) Y=-23(F) Z=-23(F) AA=-23(F) AB=-23(F) AC=-23(F) AD=-29(F) AE=-29(F) AF=-29(F)
AG=-29(F) AH=7(F) AI=-46(F) AJ=-8(F) AK=-8(F) AL=-8(F) AM=-8(F) AN=-8(F) AO=-17(F) AP=-17(F) AQ=-17(F) AR=-17(F)
- 17) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=110, B-C=75, C-I=48, I-J=48, J-K=36, O-R=-12, M-O=68(F=80), M-U=-12
Horz: A-B=-122, B-C=-87, I-J=60, J-K=48
Concentrated Loads (lb)
Vert: C=-23(F) Q=-8(F) P=-8(F) D=-23(F) Y=-23(F) Z=-23(F) AA=-23(F) AB=-23(F) AC=-23(F) AD=-29(F) AE=-29(F) AF=-29(F)
AG=-29(F) AH=7(F) AI=-46(F) AJ=-8(F) AK=-8(F) AL=-8(F) AM=-8(F) AN=-8(F) AO=-17(F) AP=-17(F) AQ=-17(F) AR=-17(F)
- 18) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=36, B-C=48, C-I=48, I-J=75, J-K=110, O-R=-12, M-O=68(F=80), M-U=-12
Horz: A-B=-48, B-C=-60, I-J=87, J-K=122

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	A01	Hip Girder	1	1	Job Reference (optional)

Builders FirstSource, N. Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Mon Jan 22 13:52:41 2018 Page 3
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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: C=-23(F) Q=-8(F) P=-8(F) D=-23(F) Y=-23(F) Z=-23(F) AA=-23(F) AB=-23(F) AC=-23(F) AD=-29(F) AE=-29(F) AF=-29(F) AG=-29(F) AH=7(F) AI=-46(F) AJ=-8(F)
AK=-8(F) AL=-8(F) AM=-8(F) AN=-8(F) AO=-17(F) AP=-17(F) AQ=-17(F) AR=-17(F)

19) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: A-B=72, B-C=37, C-I=26, I-J=26, J-K=14, O-R=-12, M-O=68(F=80), M-U=-12
Horz: A-B=-84, B-C=-49, I-J=38, J-K=26

Concentrated Loads (lb)

Vert: C=-23(F) Q=-8(F) P=-8(F) D=-23(F) Y=-23(F) Z=-23(F) AA=-23(F) AB=-23(F) AC=-23(F) AD=-29(F) AE=-29(F) AF=-29(F) AG=-29(F) AH=7(F) AI=-46(F) AJ=-8(F)
AK=-8(F) AL=-8(F) AM=-8(F) AN=-8(F) AO=-17(F) AP=-17(F) AQ=-17(F) AR=-17(F)

20) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: A-B=14, B-C=26, C-I=26, I-J=37, J-K=72, O-R=-12, M-O=68(F=80), M-U=-12
Horz: A-B=-26, B-C=-38, I-J=49, J-K=84

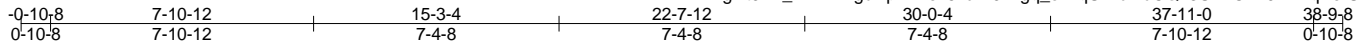
Concentrated Loads (lb)

Vert: C=-23(F) Q=-8(F) P=-8(F) D=-23(F) Y=-23(F) Z=-23(F) AA=-23(F) AB=-23(F) AC=-23(F) AD=-29(F) AE=-29(F) AF=-29(F) AG=-29(F) AH=7(F) AI=-46(F) AJ=-8(F)
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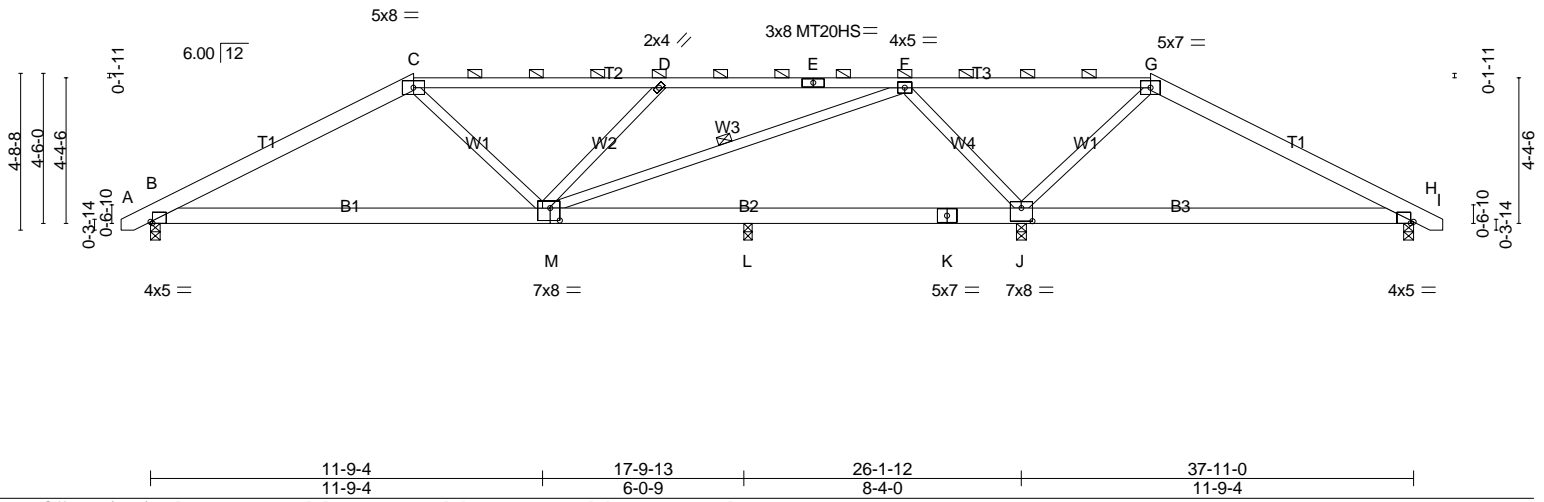
Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	A02	HIP	1	1	Job Reference (optional)

Builders FirstSource, N. Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Mon Jan 22 13:52:42 2018 Page 1
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Scale = 1:69.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.90	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.54	Vert(LL) -0.12 M-P >999 360	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.81	Vert(TL) -0.35 M-P >615 240		
BCDL 10.0	Rep Stress Incr NO	(Matrix-S)	Horz(TL) 0.02 J n/a n/a		
	Code IRC2009/TPI2007		Wind(LL) 0.19 M-P >999 240		
				Weight: 216 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* T2,T3: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-11-2 max.): C-G.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt F-M

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

REACTIONS. All bearings 0-3-8 except (jt=length) L=0-2-15.
(lb) - Max Horz B=-129(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) except B=-669(LC 8), J=-1522(LC 6), H=-341(LC 9), L=-386(LC 7)
Max Grav All reactions 250 lb or less at joint(s) L except B=970(LC 1), J=1665(LC 1), H=357(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1352/1226, C-D=-1265/1198, D-E=-1642/1683, E-F=-1642/1683, F-G=-438/536
BOT CHORD B-M=-843/1158, L-M=-264/305, K-L=-264/305, J-K=-264/305
WEBS C-M=-29/250, D-M=-591/747, F-M=-1203/1428, F-J=-1275/1329, G-J=-684/770

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) L.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 669 lb uplift at joint B, 1522 lb uplift at joint J, 341 lb uplift at joint H and 386 lb uplift at joint L.
 - This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Load case(s) 4, 5, 6, 7, 8, 9, 10, 11 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	A02	HIP	1	1	Job Reference (optional)

Builders FirstSource, N. Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Mon Jan 22 13:52:42 2018 Page 2
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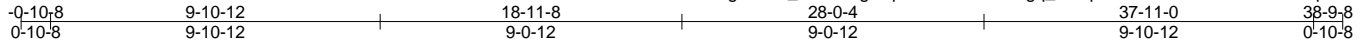
LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-C=-60, C-G=-60, G-I=-60, N-Q=-20
- 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=141, B-C=84, C-G=77, G-H=84, H-I=71, L-N=-12, J-L=68(F=80), J-Q=-12
Horz: A-B=-153, B-C=-96, G-H=96, H-I=83
- 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=71, B-C=84, C-G=77, G-H=84, H-I=141, L-N=-12, J-L=68(F=80), J-Q=-12
Horz: A-B=-83, B-C=-96, G-H=96, H-I=153
- 6) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=49, B-C=14, C-G=75, G-H=41, H-I=29, L-N=-12, J-L=68(F=80), J-Q=-12
Horz: A-B=-61, B-C=-26, G-H=53, H-I=41
- 7) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=29, B-C=41, C-G=75, G-H=14, H-I=49, L-N=-12, J-L=68(F=80), J-Q=-12
Horz: A-B=-41, B-C=-53, G-H=26, H-I=61
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=110, B-C=75, C-G=48, G-H=48, H-I=36, L-N=-12, J-L=68(F=80), J-Q=-12
Horz: A-B=-122, B-C=-87, G-H=60, H-I=48
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=36, B-C=48, C-G=48, G-H=75, H-I=110, L-N=-12, J-L=68(F=80), J-Q=-12
Horz: A-B=-48, B-C=-60, G-H=87, H-I=122
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=72, B-C=37, C-G=26, G-H=26, H-I=14, L-N=-12, J-L=68(F=80), J-Q=-12
Horz: A-B=-84, B-C=-49, G-H=38, H-I=26
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=14, B-C=26, C-G=26, G-H=37, H-I=72, L-N=-12, J-L=68(F=80), J-Q=-12
Horz: A-B=-26, B-C=-38, G-H=49, H-I=84

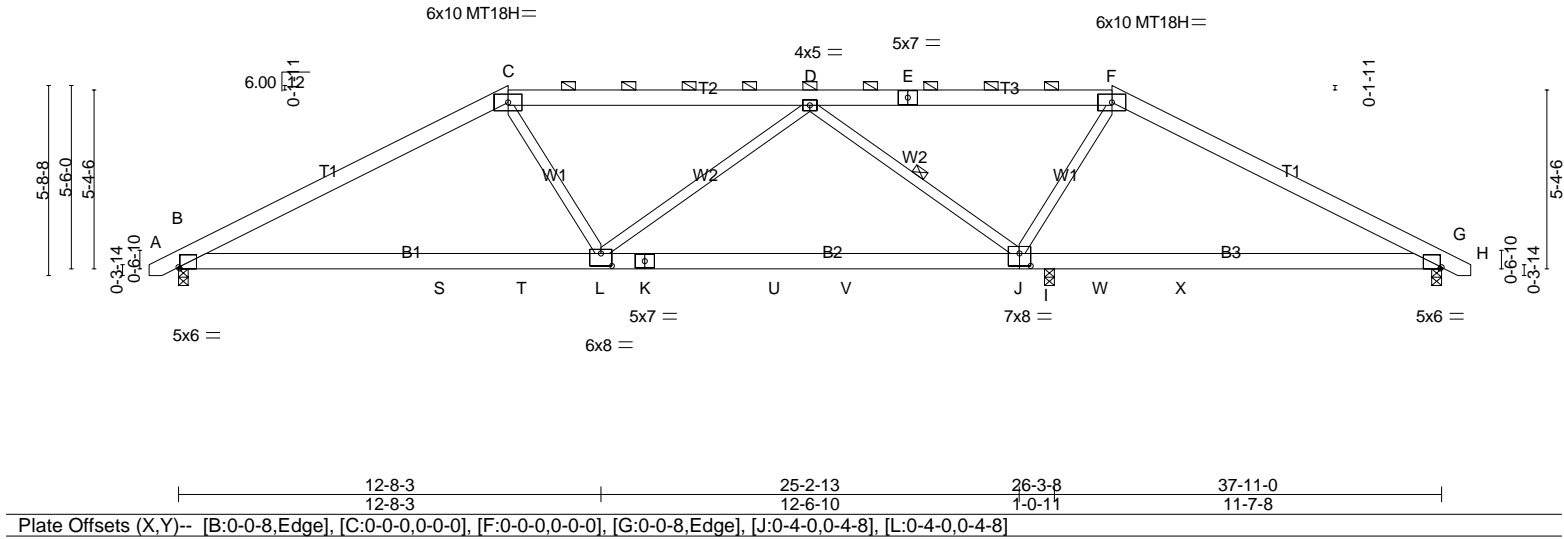
Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	A03	HIP	1	1	Job Reference (optional)

Builders FirstSource, N. Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Mon Jan 22 13:52:42 2018 Page 1
 ID:ght9E4_T2Ek4TgdRpkw?ez6kuZ-92zgg_o?ifqUfwbMdCQ43S2P8F?1RLJqAerUEuzsoQ3



Scale = 1:69.2



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 0.59	Vert(LL)	-0.15	J-L	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.88	Vert(TL)	-0.47	J-L	>666	MT18H	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.44	Horz(TL)	0.05	G	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.27	J-L	>999		Weight: 226 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (5-4-14 max.): C-F.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied.
	WEBS 1 Row at midpt D-J

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

REACTIONS. (lb/size) B=1174/0-3-8 (min. 0-1-8), G=697/0-3-8 (min. 0-1-8), I=1244/0-3-8 (min. 0-1-8)
 Max Horz B=-154(LC 9)
 Max Uplift B=-806(LC 8), G=-566(LC 9), I=-709(LC 6)
 Max Grav B=1174(LC 1), G=699(LC 14), I=1244(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1775/1521, C-D=-1599/1521, D-E=-508/643, E-F=-508/645, F-G=-825/757
 BOT CHORD B-S=-1058/1493, S-T=-1058/1493, L-T=-1058/1493, K-L=-1080/1421, K-U=-1080/1421,
 U-V=-1080/1421, J-V=-1080/1421, I-J=-368/638, I-W=-368/638, W-X=-368/638,
 G-X=-368/638
 WEBS C-L=-73/369, D-L=-54/384, D-J=-1193/1133, F-J=-265/464

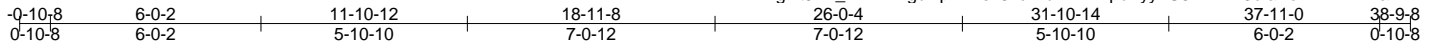
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 806 lb uplift at joint B, 566 lb uplift at joint G and 709 lb uplift at joint I.
 - 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

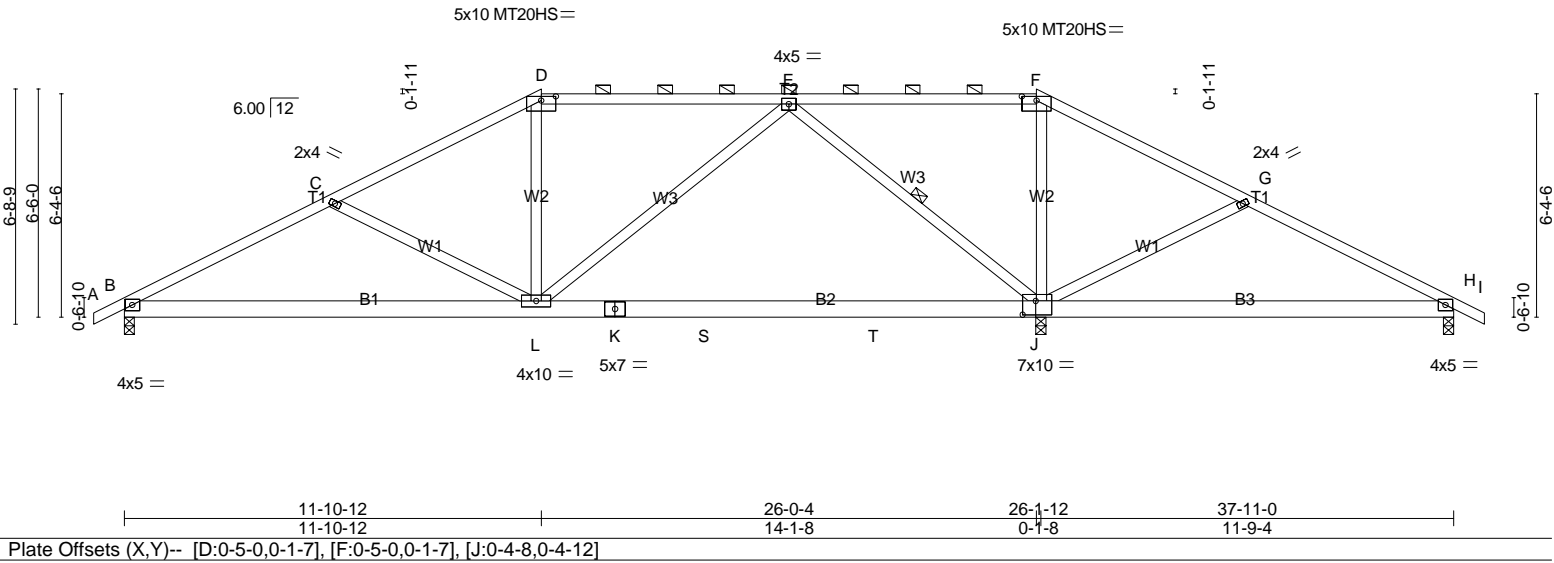
Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	A04	Hip	2	1	

Builders FirstSource, N. Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Mon Jan 22 13:52:43 2018 Page 1
 ID:ghlt9E4_T2Ek4TgdRpkw?ez6kuZ-dEX21KpdTyyLG3AYBvxJbfaYofNEAlFzPla1mKzsoQ2



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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.73	Vert(LL) -0.33	J-L	>957	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.69	Vert(TL) -0.58	J-L	>540	240	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.59	Horz(TL) 0.03	J	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix-S)	Wind(LL) 0.09	L-O	>999	240		
	Code IRC2009/TPI2007							Weight: 215 lb FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-1-11 max.): D-F.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt E-J

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

REACTIONS. (lb/size) B=981/0-3-8 (min. 0-1-8), J=1871/0-3-8 (min. 0-2-3), H=286/0-3-8 (min. 0-1-8)
 Max Horz B=188(LC 8)
 Max Uplift B=-714(LC 8), J=-1060(LC 9), H=-314(LC 9)
 Max Grav B=996(LC 13), J=1871(LC 1), H=338(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1568/1378, C-D=-1191/996, D-E=-996/1017, E-F=-201/397, F-G=-383/513, G-H=-251/272
 BOT CHORD B-L=-1029/1346, K-L=-401/603, K-S=-401/603, S-T=-401/603, J-T=-401/603, H-J=-214/281
 WEBS C-L=-394/702, D-L=0/286, E-L=-343/559, E-J=-1248/1242, F-J=-559/656, G-J=-447/750

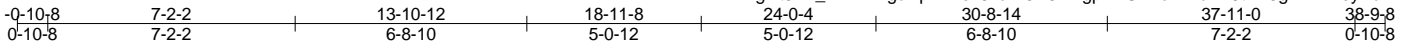
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 714 lb uplift at joint B, 1060 lb uplift at joint J and 314 lb uplift at joint H.
 - 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	A05	Hip	2	1	

Builders FirstSource, N. Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Mon Jan 22 13:52:44 2018 Page 1
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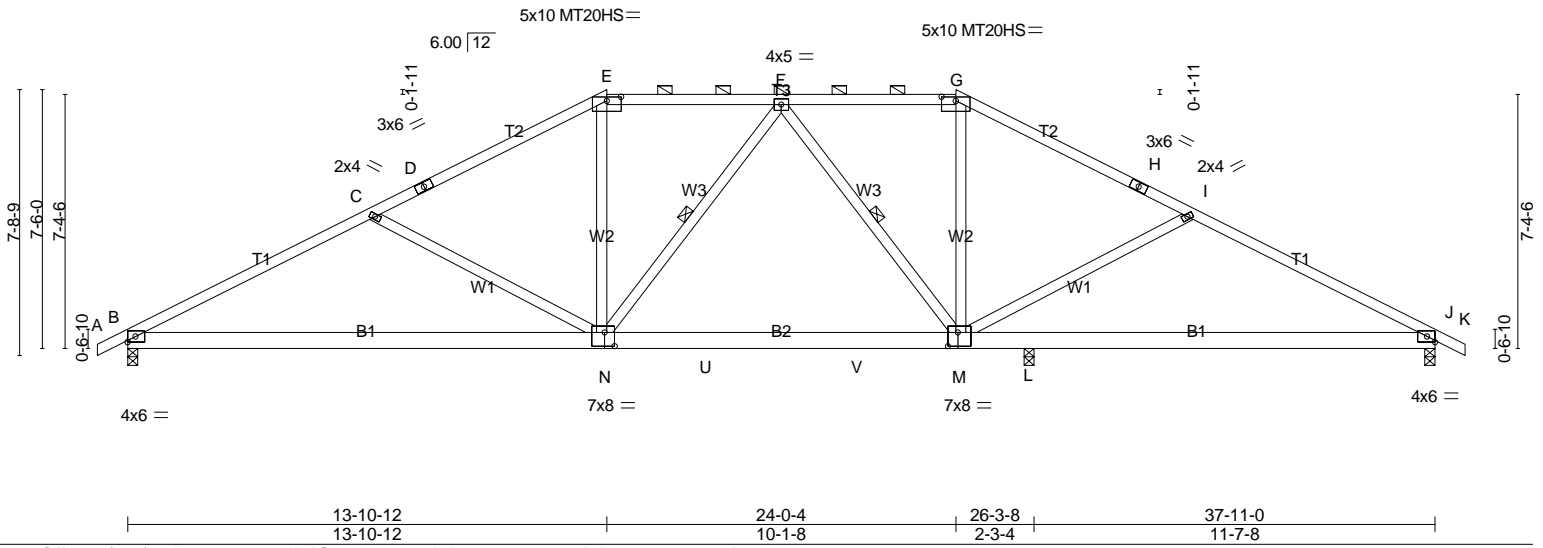


Plate Offsets (X,Y)-- [E:0-5-0,0-1-7], [G:0-5-0,0-1-7], [M:0-3-8,0-4-12], [N:0-3-8,0-4-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.84	Vert(LL) -0.24	M-N	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.84	Vert(TL) -0.59	N-Q	>536	240	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.52	Horz(TL) 0.08	J	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix-S)	Wind(LL) 0.30	M-N	>999	240		
	Code IRC2009/TPI2007						Weight: 220 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-6-0 max.): E-G.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt F-N, F-M

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

REACTIONS. (lb/size) B=1365/0-3-8 (min. 0-1-10), J=1117/0-3-8 (min. 0-1-8), L=656/0-3-8 (min. 0-1-8)
 Max Horz B=214(LC 8)
 Max Uplift B=-1008(LC 8), J=-920(LC 9), L=-219(LC 9)
 Max Grav B=1365(LC 1), J=1117(LC 1), L=684(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-2289/2248, C-D=-1845/1787, D-E=-1742/1817, E-F=-1564/1760, F-G=-1193/1538, G-H=-1328/1568, H-I=-1411/1537, I-J=-1832/1990
 BOT CHORD B-N=-1773/1977, N-U=-1091/1485, U-V=-1091/1485, M-V=-1091/1485, L-M=-1541/1561, J-L=-1541/1561
 WEBS C-N=-473/809, E-N=-329/478, F-N=-69/312, F-M=-626/432, G-M=-214/319, I-M=-452/795

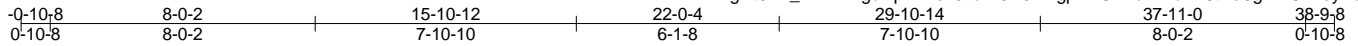
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1008 lb uplift at joint B, 920 lb uplift at joint J and 219 lb uplift at joint L.
 - 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	A06	HIP	2	1	Job Reference (optional)

Builders FirstSource, N. Charleston, SC

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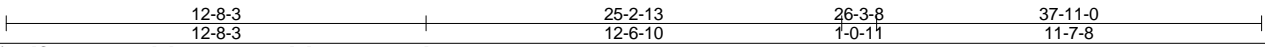
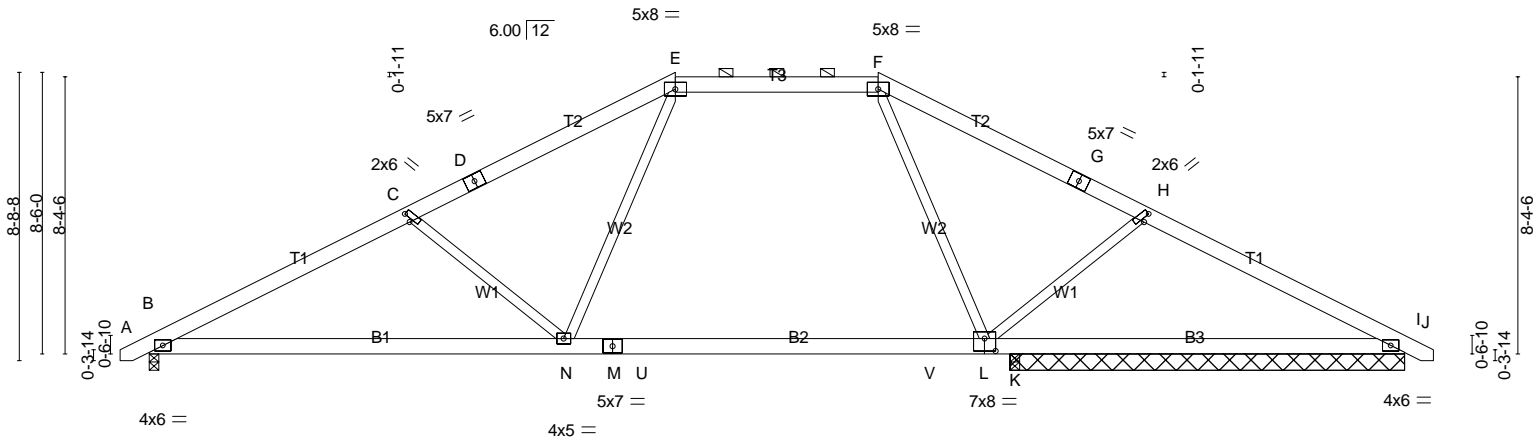


Plate Offsets (X,Y)-- [C:0-3-3,0-1-4], [H:0-3-3,0-1-4], [L:0-4-0,0-4-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.60	Vert(LL)	-0.39	L-N	>799	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.87	Vert(TL)	-0.68	L-N	>464		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.62	Horz(TL)	0.09	I	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.34	N-Q	>927		
								Weight: 233 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-5-3 max.): E-F.
BOT CHORD Rigid ceiling directly applied.

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

REACTIONS. (lb/size) B=1472/0-3-8 (min. 0-1-12), I=1358/11-11-0 (min. 0-1-10), K=285/0-3-8 (min. 0-1-8)
Max Horz B=-233(LC 9)
Max Uplift B=-1115(LC 8), I=-899(LC 8), K=-425(LC 9)
Max Grav B=1472(LC 1), I=1358(LC 1), K=564(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2527/2310, C-D=-2205/1957, D-E=-2095/1989, E-F=-1602/1762, F-G=-1964/1848,
G-H=-2060/1811, H-I=-2354/2139
BOT CHORD B-N=-1831/2201, M-N=-975/1602, M-U=-975/1602, U-V=-975/1602, L-V=-975/1602,
K-L=-1671/2038, I-K=-1671/2038
WEBS C-N=-533/892, E-N=-446/728, F-L=-291/594, H-L=-465/813

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1115 lb uplift at joint B, 899 lb uplift at joint I and 425 lb uplift at joint K.
 - 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/EmbarK/
MASTER	A07	HIP	5	1	Job Reference (optional)

Builders FirstSource, N. Charleston, SC

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0-10-8	9-0-2	17-10-12	20-0-4	28-10-14	37-11-0	38-9-8	0-10-8
0-10-8	9-0-2	8-10-10	2-1-8	8-10-10	9-0-2	0-10-8	

Scale = 1:68.4

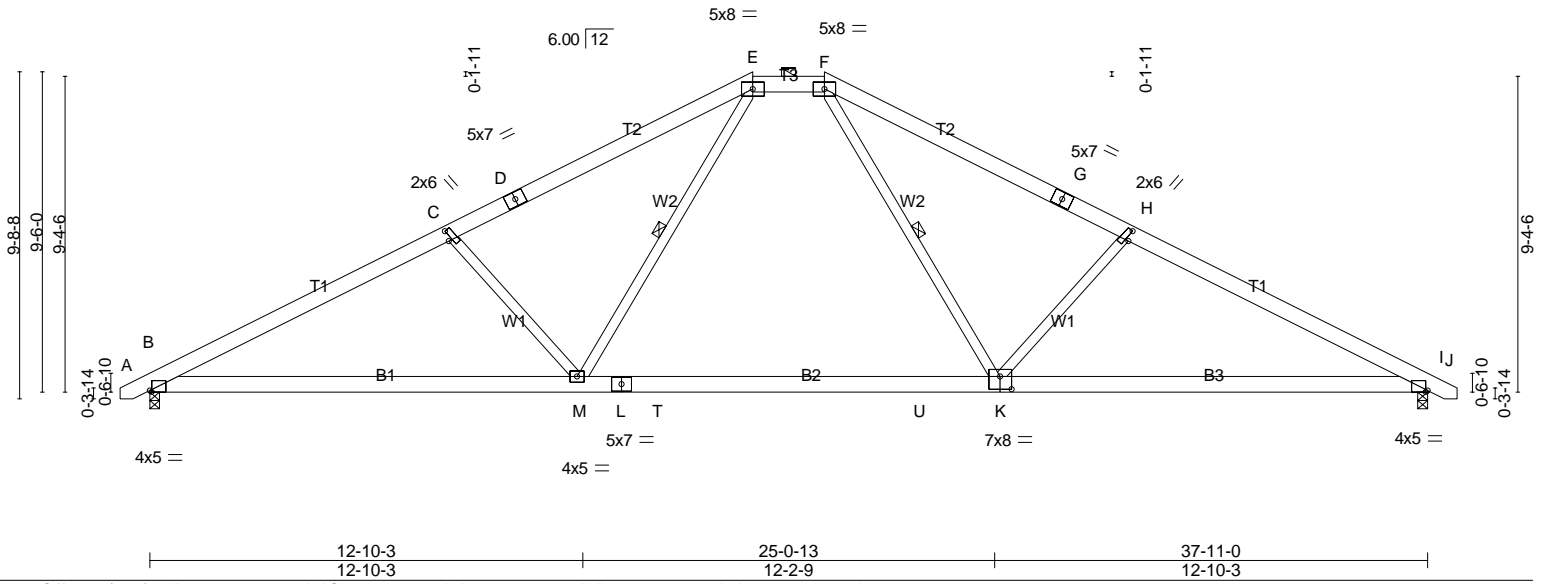


Plate Offsets (X,Y)--	[B:0-0-12,Edge], [C:0-3-8,0-1-4], [H:0-3-8,0-1-4], [I:0-0-12,Edge], [K:0-4-0,0-4-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.67	Vert(LL) -0.35	K-M	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.78	Vert(TL) -0.61	K-M	>750	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.37	Horz(TL) 0.09	I	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix-S)	Wind(LL) 0.22	M-P	>999	240		
	Code IRC2009/TPI2007						Weight: 238 lb	FT = 20%

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

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

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

REACTIONS. (lb/size) B=1558/0-3-8 (min. 0-1-13), I=1558/0-3-8 (min. 0-1-13)
 Max Horz B=-260(LC 9)
 Max UpliftB=-1102(LC 8), I=-1103(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-2634/2438, C-D=-2319/2219, D-E=-2209/2260, E-F=-1581/1880, F-G=-2212/2263,
 G-H=-2321/2222, H-I=-2635/2438
 BOT CHORD B-M=-1920/2296, L-M=-1000/1581, L-T=-1000/1581, T-U=-1000/1581, K-U=-1000/1581,
 I-K=-1922/2297
 WEBS C-M=-567/920, E-M=-644/848, F-K=-648/849, H-K=-566/919

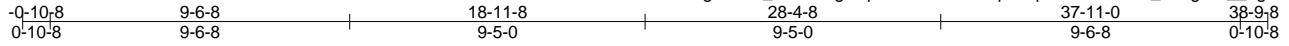
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1102 lb uplift at joint B and 1103 lb uplift at joint I.
 - 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embar/
MASTER	A08	COMMON	18	1	Job Reference (optional)

Builders FirstSource, N. Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Mon Jan 22 13:52:45 2018 Page 1
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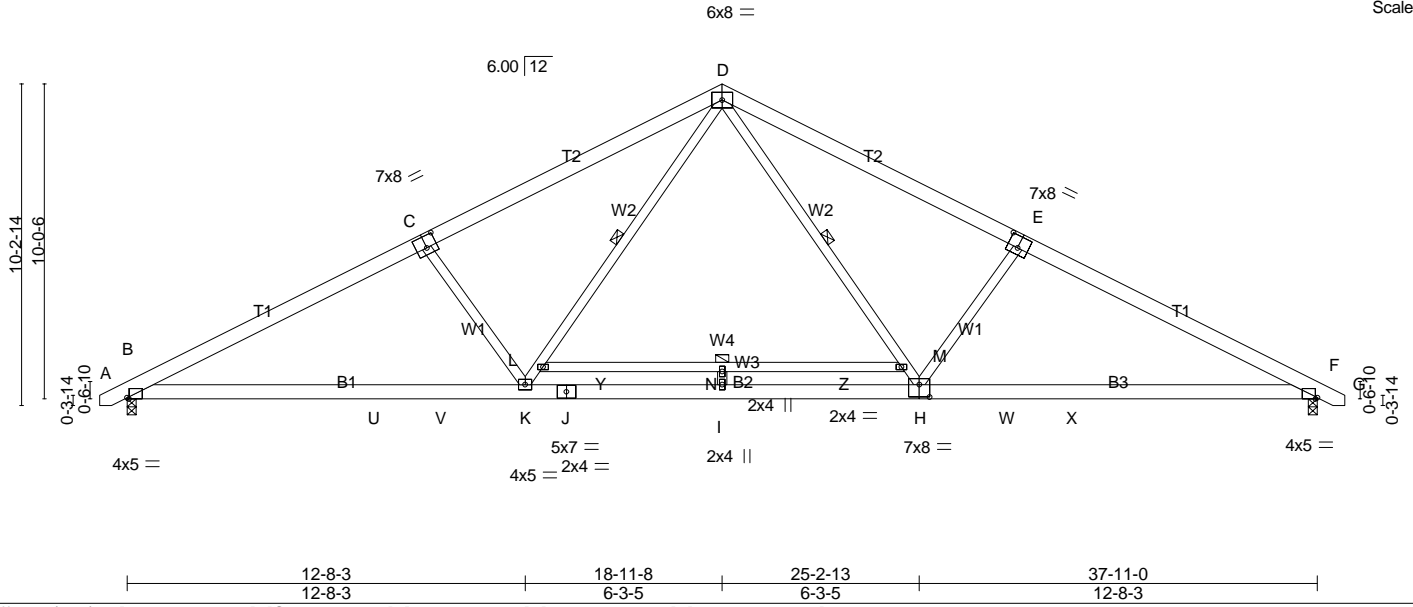


Plate Offsets (X,Y)--	[B:0-0-12,Edge], [C:0-4-0,0-4-8], [E:0-4-0,0-4-8], [F:0-0-12,Edge], [H:0-4-0,0-4-12]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.79	Vert(LL) -0.40	I >999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.99	Vert(TL) -0.63	I >721	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.57	Horz(TL) 0.09	F n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	(Matrix-S)	Wind(LL) 0.20	K-Q >999	240		
						Weight: 260 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.1 *Except*
 B3: 2x6 SP No.2
 WEBS 2x4 SP No.3 *Except*
 W3: 2x4 SP No.2

BRACING-

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

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

REACTIONS. (lb/size) B=1558/0-3-8 (min. 0-1-13), F=1558/0-3-8 (min. 0-1-13)
 Max Horz B=-276(LC 9)
 Max Uplift B=-1113(LC 8), F=-1113(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-2676/2408, C-D=-2426/2336, D-E=-2424/2336, E-F=-2675/2408
 BOT CHORD B-U=-1877/2320, U-V=-1877/2320, K-V=-1877/2320, J-K=-1014/1672, I-J=-1014/1672,
 H-I=-1014/1672, H-W=-1880/2320, W-X=-1880/2320, F-X=-1880/2320
 WEBS D-M=-784/1011, H-M=-734/891, E-H=-562/950, K-L=-734/893, D-L=-784/1016, C-K=-561/949

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1113 lb uplift at joint B and 1113 lb uplift at joint F.
 - 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) Load case(s) 2, 3, 15, 16 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: A-D=-60, D-G=-60, O-R=-20
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	A08	COMMON	18	1	Job Reference (optional)

Builders FirstSource, N. Charleston, SC

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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: A-D=-50, D-G=-50, O-U=-20, U-V=-50, V-W=-20, W-X=-50, R-X=-20, Y-Z=-30

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: A-D=-20, D-G=-20, O-R=-40, Y-Z=-40

15) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: A-D=-50, D-G=-20, O-U=-20, U-V=-50, V-W=-20, W-X=-50, R-X=-20, Y-Z=-30

16) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

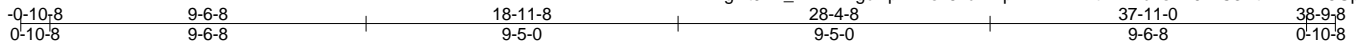
Uniform Loads (plf)

Vert: A-D=-20, D-G=-50, O-U=-20, U-V=-50, V-W=-20, W-X=-50, R-X=-20, Y-Z=-30

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	A09	COMMON	8	1	

Builders FirstSource, N. Charleston, SC

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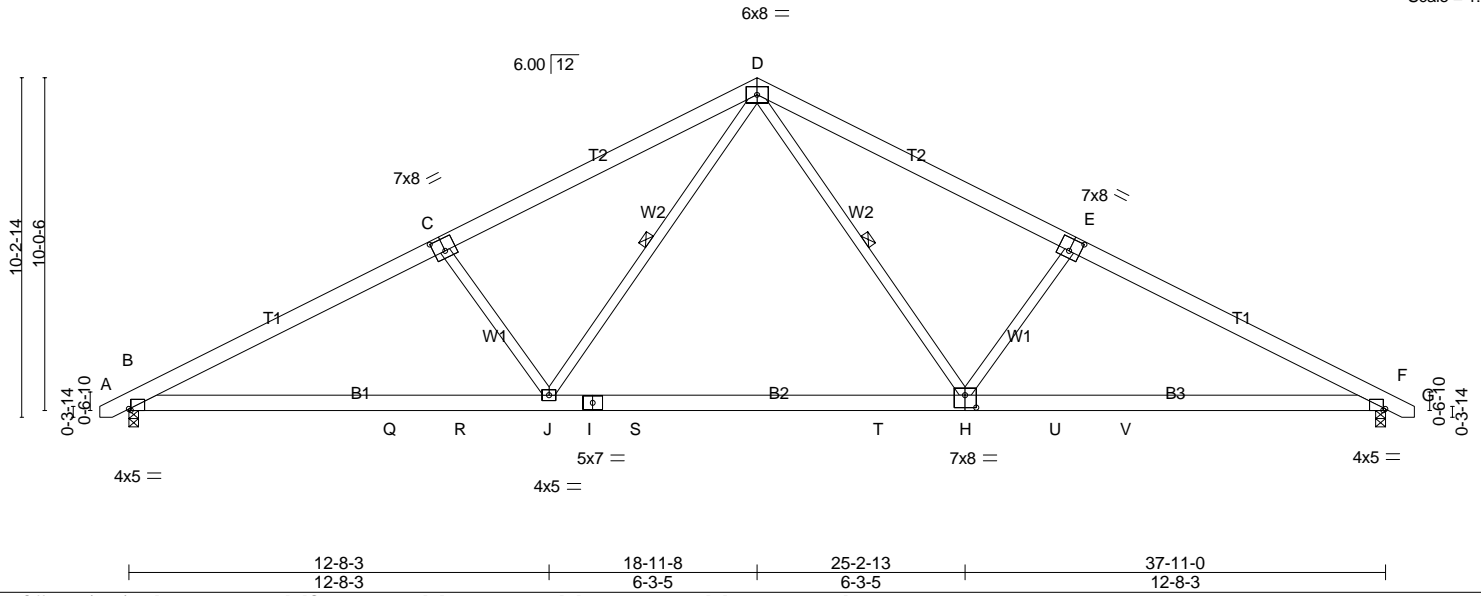


Plate Offsets (X,Y)-- [B:0-0-12,Edge], [C:0-4-0,0-4-8], [E:0-4-0,0-4-8], [F:0-0-12,Edge], [H:0-4-0,0-4-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.70	Vert(LL)	-0.29	H-J	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.81	Vert(TL)	-0.55	H-J	>820	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.50	Horz(TL)	0.09	F	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.21	J-M	>999	240		
									Weight: 242 lb	FT = 20%

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

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

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

REACTIONS. (lb/size) B=1558/0-3-8 (min. 0-1-13), F=1558/0-3-8 (min. 0-1-13)
 Max Horz B=-276(LC 9)
 Max Uplift B=-1113(LC 8), F=-1113(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-2668/2407, C-D=-2418/2335, D-E=-2418/2335, E-F=-2668/2407
 BOT CHORD B-Q=-1877/2313, Q-R=-1877/2313, J-R=-1877/2313, I-J=-919/1537, I-S=-919/1537,
 S-T=-919/1537, H-T=-919/1537, H-U=-1879/2313, U-V=-1879/2313, F-V=-1879/2313
 WEBS D-H=-779/979, E-H=-563/950, D-J=-779/979, C-J=-563/950

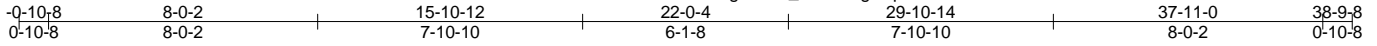
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1113 lb uplift at joint B and 1113 lb uplift at joint F.
 - 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	A10	HIP	3	1	

Builders FirstSource, N. Charleston, SC

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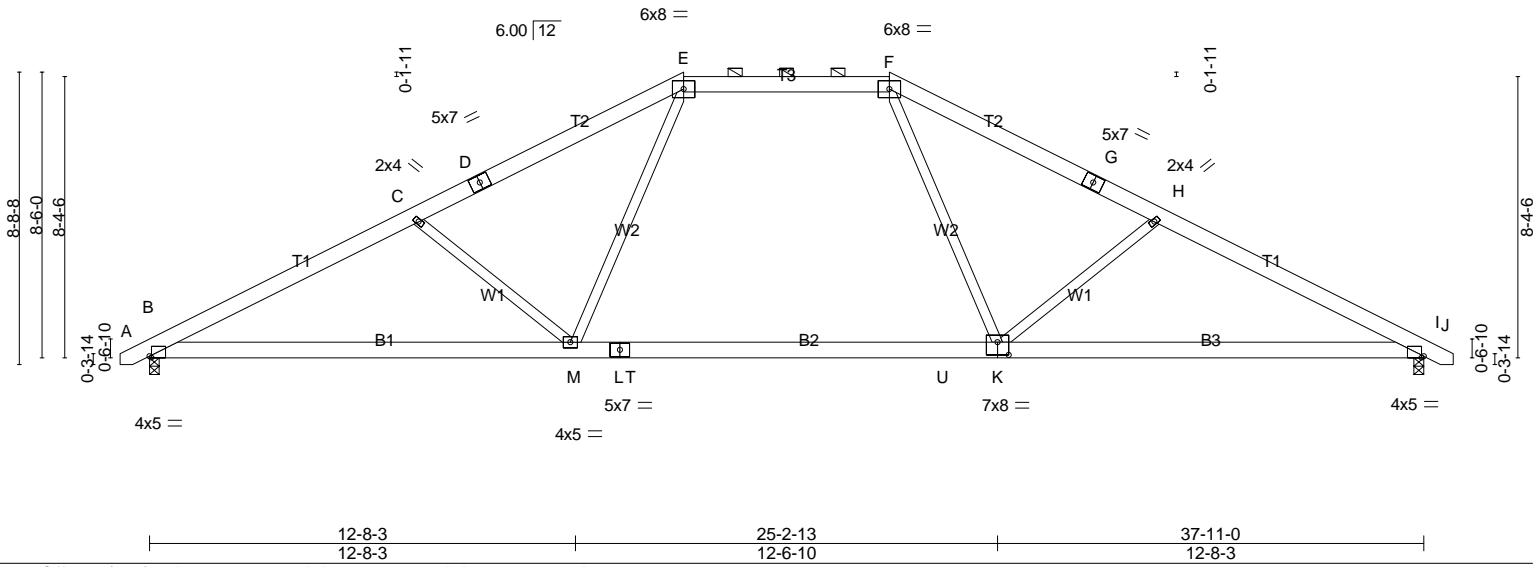


Plate Offsets (X,Y)--	[B:0-0-12,Edge], [I:0-0-12,Edge], [K:0-4-0,0-4-8]
-----------------------	---

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.58	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.88	Vert(LL) -0.39 K-M >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.60	Vert(TL) -0.66 K-M >689 240		
BCDL 10.0	Rep Stress Incr YES	(Matrix-S)	Horz(TL) 0.10 I n/a n/a		
	Code IRC2009/TPI2007		Wind(LL) 0.35 M-P >999 240		
				Weight: 233 lb	FT = 20%

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

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

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

REACTIONS. (lb/size) B=1558/0-3-8 (min. 0-1-13), I=1558/0-3-8 (min. 0-1-13)
 Max Horz B=-233(LC 9)
 Max UpliftB=-1081(LC 8), I=-1081(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-2687/2469, C-D=-2382/2133, D-E=-2287/2170, E-F=-1780/1939, F-G=-2279/2162, G-H=-2375/2125, H-I=-2685/2470
 BOT CHORD B-M=-1971/2345, L-M=-1155/1780, L-T=-1155/1780, T-U=-1155/1780, K-U=-1155/1780, I-K=-1973/2344
 WEBS C-M=-552/849, E-M=-432/717, F-K=-425/716, H-K=-556/852

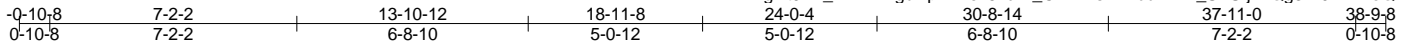
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1081 lb uplift at joint B and 1081 lb uplift at joint I.
 - This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 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	H&H-NC/Embark/
MASTER	A11	Hip	3	1	
Job Reference (optional)					

Builders FirstSource, N. Charleston, SC

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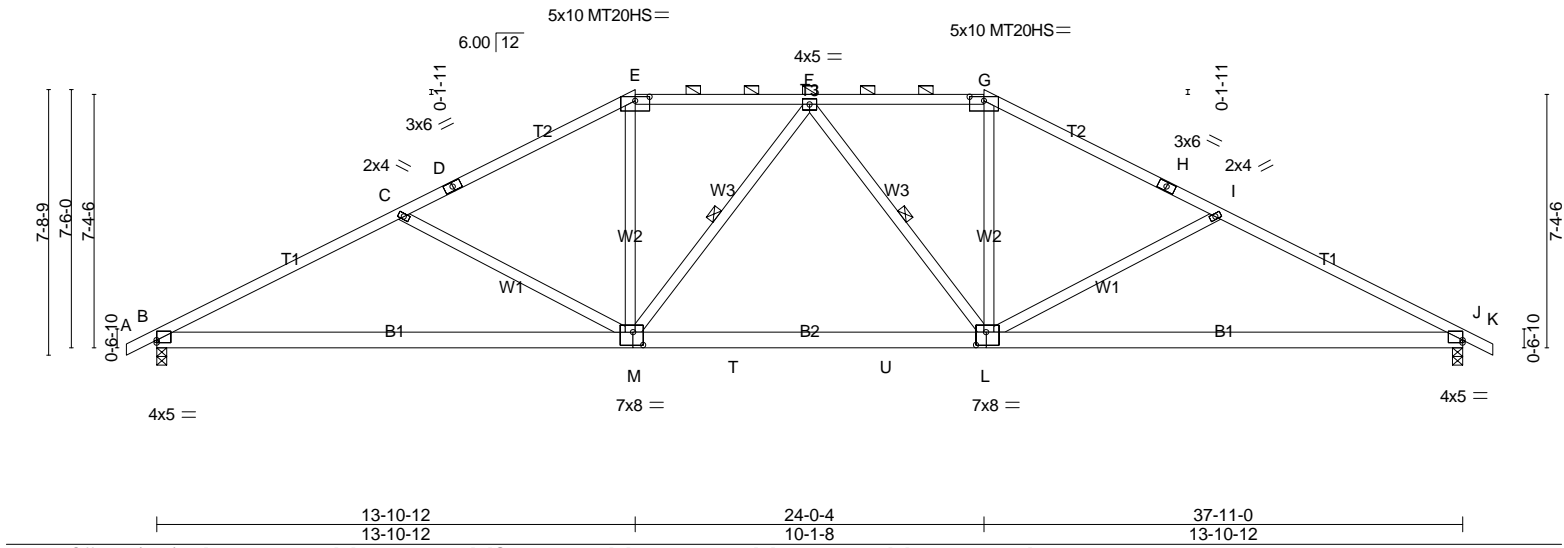


Plate Offsets (X,Y)-- [B:0-0-0,0-0-14], [E:0-5-0,0-1-7], [G:0-5-0,0-1-7], [J:Edge,0-0-14], [L:0-3-8,0-4-8], [M:0-3-8,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.86	Vert(LL) -0.26	M-P	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.81	Vert(TL) -0.70	M-P	>650	240	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.52	Horz(TL) 0.10	J	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix-S)	Wind(LL) 0.23	L-M	>999	240		
	Code IRC2009/TPI2007							Weight: 220 lb FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-0-3 max.): E-G.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt F-M, F-L

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

REACTIONS. (lb/size) B=1569/0-3-8 (min. 0-1-14), J=1569/0-3-8 (min. 0-1-14)
 Max Horz B=214(LC 8)
 Max Uplift B=-1071(LC 8), J=-1071(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-2710/2483, C-D=-2269/2024, D-E=-2167/2054, E-F=-1945/1972, F-G=-1945/1972,
 G-H=-2167/2054, H-I=-2269/2024, I-J=-2710/2483
 BOT CHORD B-M=-1986/2354, M-T=-1421/2067, T-U=-1421/2067, L-U=-1421/2067, J-L=-1991/2354
 WEBS C-M=-468/805, E-M=-435/647, F-M=-352/380, F-L=-352/380, G-L=-435/647, I-L=-468/805

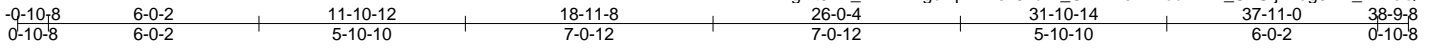
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1071 lb uplift at joint B and 1071 lb uplift at joint J.
 - This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 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	H&H-NC/Embark/
MASTER	A12	Hip	3	1	

Builders FirstSource, N. Charleston, SC

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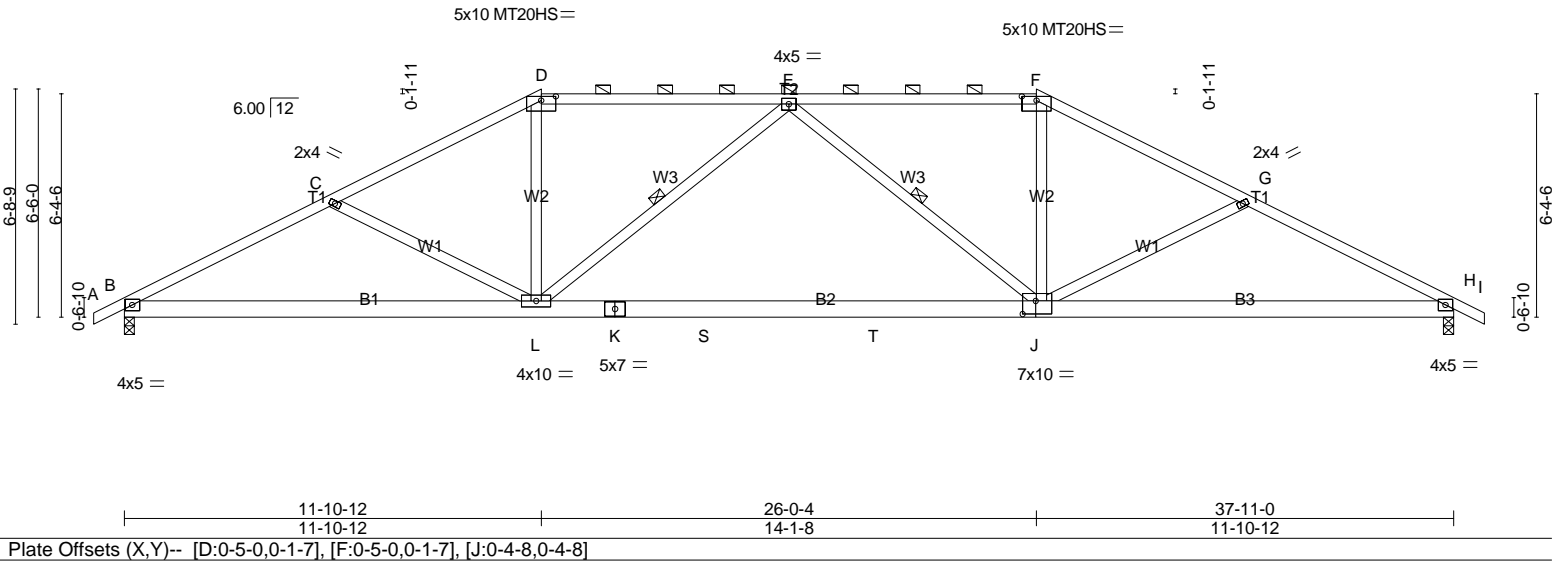


Plate Offsets (X,Y)-- [D:0-5-0,0-1-7], [F:0-5-0,0-1-7], [J:0-4-8,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.84	Vert(LL) -0.40	J-L	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.98	Vert(TL) -0.87	J-L	>522	240	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.30	Horz(TL) 0.11	H	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix-S)	Wind(LL) 0.27	J-L	>999	240		Weight: 215 lb FT = 20%
	Code IRC2009/TPI2007							

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (3-2-12 max.): D-F.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt E-L, E-J

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

REACTIONS. (lb/size) B=1569/0-3-8 (min. 0-1-14), H=1569/0-3-8 (min. 0-1-14)
 Max Horz B=188(LC 8)
 Max Uplift B=-1041(LC 8), H=-1041(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-2791/2487, C-D=-2443/2130, D-E=-2111/2027, E-F=-2122/2032, F-G=-2435/2123,
 G-H=-2789/2489
 BOT CHORD B-L=-2018/2432, K-L=-1789/2406, K-S=-1789/2406, S-T=-1789/2406, J-T=-1789/2406,
 H-J=-2024/2430
 WEBS C-L=-352/660, D-L=-438/695, E-L=-510/578, E-J=-497/574, F-J=-434/692, G-J=-356/665

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1041 lb uplift at joint B and 1041 lb uplift at joint H.
 - 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

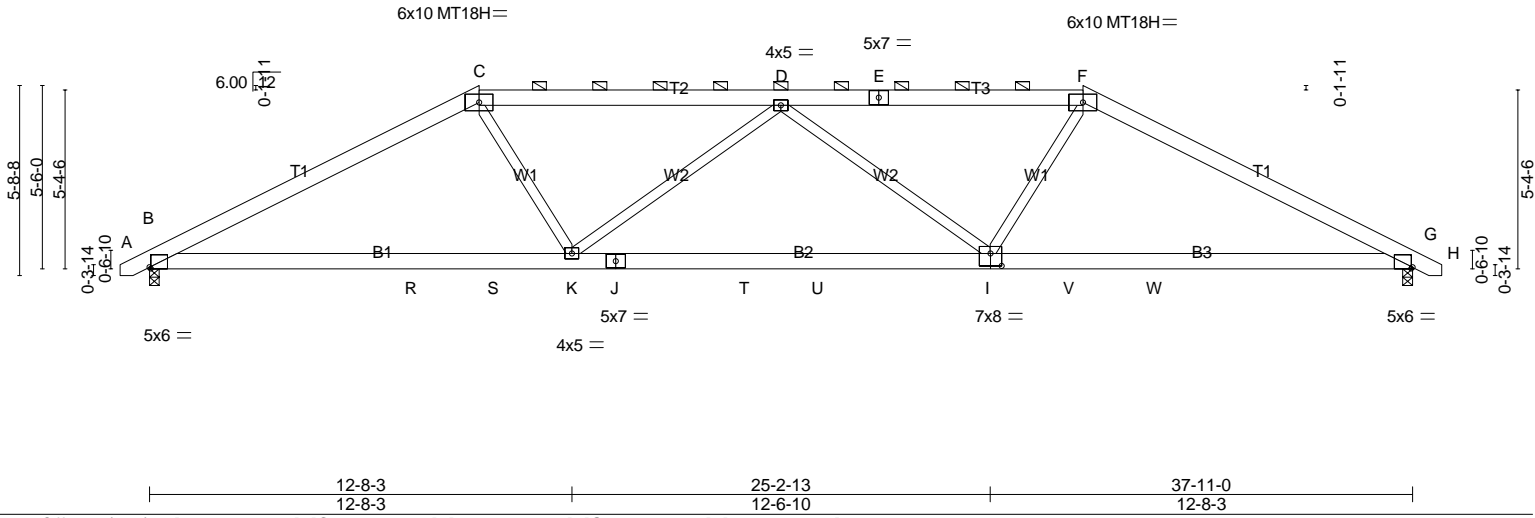
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	A13	HIP	3	1	
Builders FirstSource, N. Charleston, SC					

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Mon Jan 22 13:52:49 2018 Page 1
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-0-10-8	9-10-12	18-11-8	28-0-4	37-11-0	38-9-8
0-10-8	9-10-12	9-0-12	9-0-12	9-10-12	0-10-8

Scale = 1:69.2



12-8-3	25-2-13	37-11-0						
12-8-3	12-6-10	12-8-3						
Plate Offsets (X,Y)-- [B:0-0-8,Edge], [C:0-0-0,0-0-0], [F:0-0-0,0-0-0], [G:0-0-8,Edge], [I:0-4-0,0-4-8]								
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.66	Vert(LL) -0.14	K-N	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.77	Vert(TL) -0.43	I-K	>999	240	MT18H	244/190
BCLL 0.0 *	Lumber DOL 1.15	WB 0.73	Horz(TL) 0.11	G	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix-S)	Wind(LL) 0.24	K-N	>999	240		Weight: 226 lb FT = 20%
	Code IRC2009/TPI2007							

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-2-2 max.): C-F.
 BOT CHORD Rigid ceiling directly applied.

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

REACTIONS. (lb/size) B=1558/0-3-8 (min. 0-1-13), G=1558/0-3-8 (min. 0-1-13)
 Max Horz B=-154(LC 9)
 Max UpliftB=-989(LC 8), G=-989(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-2597/2183, C-D=-2545/2281, D-E=-2544/2279, E-F=-2544/2281, F-G=-2599/2184
 BOT CHORD B-R=-1655/2229, R-S=-1655/2229, K-S=-1655/2229, J-K=-2247/2922, J-T=-2247/2922,
 T-U=-2247/2922, I-U=-2247/2922, I-V=-1658/2232, V-W=-1658/2232, G-W=-1658/2232
 WEBS C-K=-315/728, D-K=-587/707, D-I=-587/707, F-I=-314/725

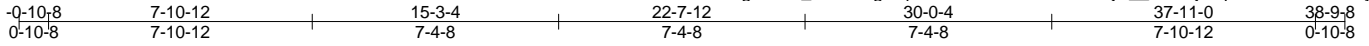
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 989 lb uplift at joint B and 989 lb uplift at joint G.
 - 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	A14	HIP	3	1	Job Reference (optional)

Builders FirstSource, N. Charleston, SC

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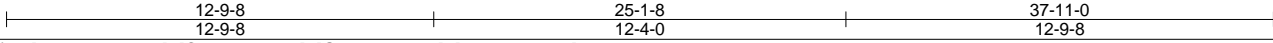
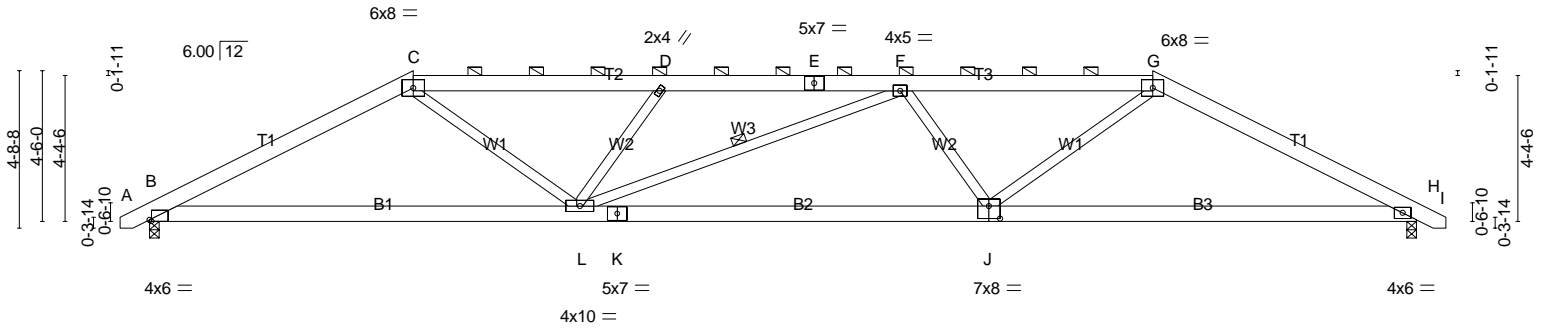


Plate Offsets (X,Y)-- [B:0-0-12,Edge], [C:0-0-0,0-0-0], [G:0-0-0,0-0-0], [J:0-4-0,0-4-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.54	Vert(LL)	-0.18	J-L	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.78	Vert(TL)	-0.53	J-L	>852		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(TL)	0.13	H	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.37	J-L	>999		
								Weight: 233 lb	FT = 20%

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

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

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

REACTIONS. (lb/size) B=1558/0-3-8 (min. 0-1-13), H=1558/0-3-8 (min. 0-1-13)
 Max Horz B=-128(LC 9)
 Max UpliftB=-950(LC 8), H=-950(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-2689/2305, C-D=-3246/2775, D-E=-3532/3135, E-F=-3532/3135, F-G=-3221/2757, G-H=-2691/2304
 BOT CHORD B-L=-1817/2339, K-L=-2747/3531, J-K=-2747/3531, H-J=-1818/2341
 WEBS C-L=-742/1206, D-L=-559/696, F-J=-610/742, G-J=-727/1185

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 950 lb uplift at joint B and 950 lb uplift at joint H.
 - 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

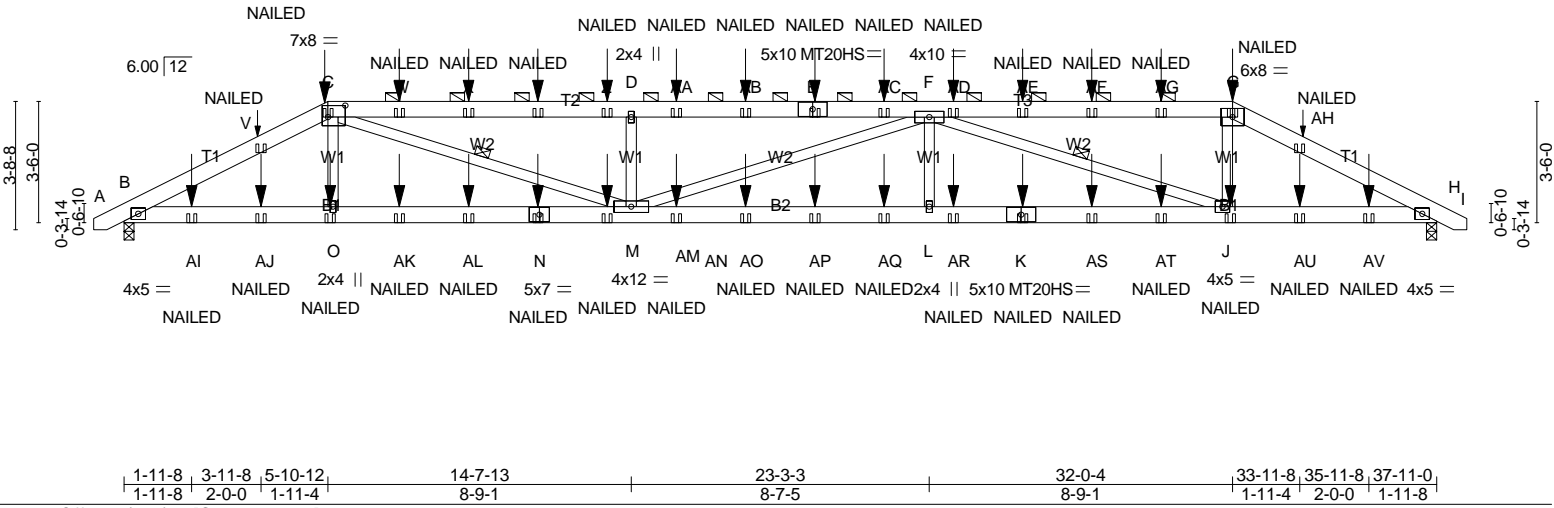
Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	A15	HIP GIRDER	3	2	Job Reference (optional)

Builders FirstSource, N. Charleston, SC

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ID:ghlt9E4_T2Ek4TgdRpkw?ez6kuZ-szaSwPwGMj53rSMHDlcQTZS0oHNwnp9IUBG0ZJzsoPv

-0-10-8	3-11-8	5-10-12	14-7-13	23-3-3	32-0-4	33-11-8	37-11-0	38-9-8
0-10-8	3-11-8	1-11-4	8-9-1	8-7-5	8-9-1	1-11-4	3-11-8	0-10-8

Scale = 1:66.5



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 0.97	Vert(LL)	-0.32	L-M	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.97	Vert(TL)	-0.81	L-M	>562	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.61	Horz(TL)	-0.16	H	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-M)	Wind(LL)	0.82	L-M	>557		Weight: 480 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins (3-11-11 max.): C-G.
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-4-0 oc bracing.
	WEBS 1 Row at midpt C-M, F-J

REACTIONS. (lb/size) B=2847/0-3-8 (min. 0-1-11), H=2847/0-3-8 (min. 0-1-11)
Max Horz B=104(LC 6)
Max Uplift B=-2582(LC 6), H=-2582(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-V=-5415/5102, C-V=-5292/5112, C-W=-8725/8646, W-X=-8725/8646, X-Y=-8725/8646,
Y-Z=-8725/8646, D-Z=-8725/8646, D-AA=-8725/8646, AA-AB=-8725/8646, E-AB=-8725/8646,
E-AC=-8725/8646, F-AC=-8725/8646, F-AD=-4860/4703, AD-AE=-4860/4703, AE-AF=-4860/4703,
AF-AG=-4860/4703, G-AG=-4860/4703, G-AH=-5286/5104, H-AH=-5410/5093
BOT CHORD B-AI=-4543/4780, AI-AJ=-4543/4780, O-AJ=-4543/4780, O-AK=-4546/4800, AK-AL=-4546/4800,
N-AL=-4546/4800, N-AM=-4546/4800, M-AM=-4546/4800, M-AN=-8527/8727, AN-AO=-8527/8727,
AO-AP=-8527/8727, AP-AQ=-8527/8727, L-AQ=-8527/8727, L-AR=-8527/8727,
K-AR=-8527/8727, K-AS=-8527/8727, AS-AT=-8527/8727, J-AT=-8527/8727, J-AU=-4461/4776,
AU-AV=-4461/4776, H-AV=-4461/4776
WEBS C-O=-79/563, C-M=-4316/4202, D-M=-974/1401, F-L=-10/626, F-J=-4147/4266,
G-J=-1455/1762

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2582 lb uplift at joint B and 2582 lb uplift at joint H.
 - This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	A15	HIP GIRDER	3	2	Job Reference (optional)

Builders FirstSource, N. Charleston, SC

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NOTES-

- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: A-C=-60, C-G=-60, G-I=-60, P-S=-20

Concentrated Loads (lb)

Vert: C=-95(B) E=-95(B) G=-95(B) N=-54(B) O=-54(B) J=-54(B) K=-54(B) W=-95(B) X=-95(B) Y=-95(B) Z=-95(B) AA=-95(B) AB=-95(B) AC=-95(B) AD=-95(B) AE=-95(B) AF=-95(B) AG=-95(B) AI=-92(B) AJ=-151(B) AK=-54(B) AL=-54(B) AM=-54(B) AN=-54(B) AO=-54(B) AP=-54(B) AQ=-54(B) AR=-54(B) AS=-54(B) AT=-54(B) AU=-151(B) AV=-92(B)

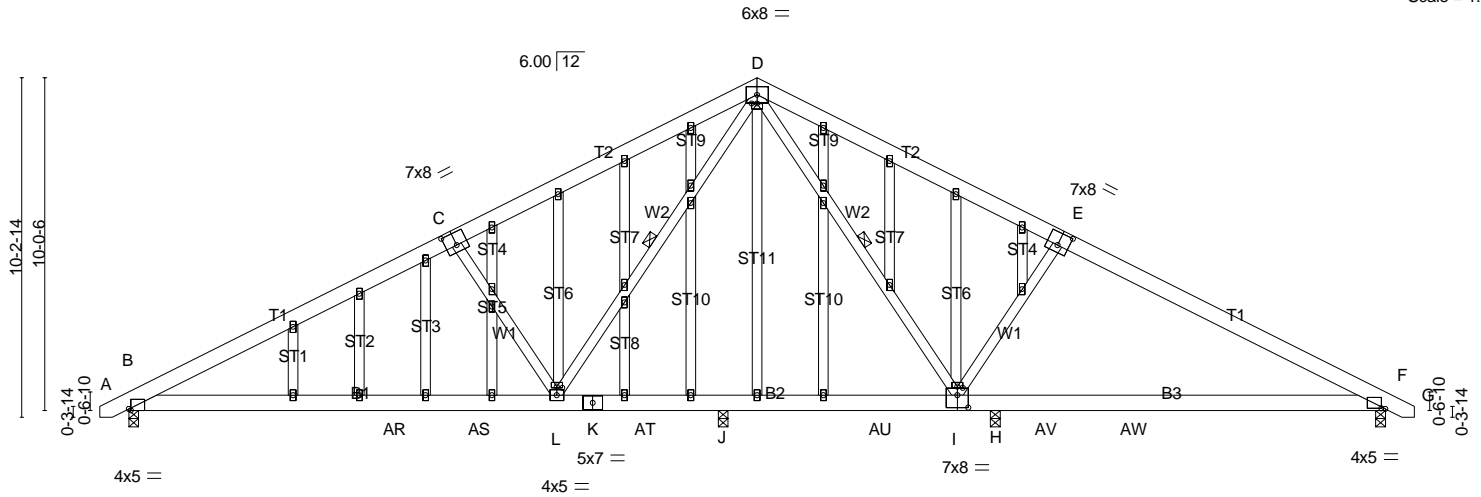
Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	A16	GABLE	1	1	Job Reference (optional)

Builders FirstSource, N. Charleston, SC

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ID:ghlt9E4_T2Ek4TgdRpkw?ez6kuZ-szaSwPwGMj53rSMHdlcQTZS4LHR9ntqLUBG0ZJzsoPv

0-10-8	9-10-12	18-11-8	28-0-4	37-11-0	38-9-8
0-10-8	9-10-12	9-0-12	9-0-12	9-10-12	0-10-8

Scale = 1:69.5



12-11-0	17-9-8	25-0-0	26-3-8	37-11-0
12-11-0	4-10-8	7-2-8	1-3-8	11-7-8

Plate Offsets (X,Y)-- [B:0-0-12,Edge], [C:0-4-0,0-4-8], [D:0-2-0,0-0-0], [E:0-4-0,0-4-8], [F:0-1-8,0-0-4], [I:0-4-0,0-4-8], [I:0-2-0,0-0-8], [L:0-2-0,0-0-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.74	Vert(LL)	-0.14	L-AN	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.76	Vert(TL)	-0.43	L-AN	>502		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.37	Horz(TL)	0.04	F	n/a		
BCDL 10.0	Rep Stress Incr NO	(Matrix-S)	Wind(LL)	0.24	L-AN	>885		
	Code IRC2009/TPI2007						Weight: 337 lb	FT = 20%

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

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

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

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz B=-276(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) except B=944(LC 8), F=813(LC 9), J=480(LC 8), H=661(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) except B=1110(LC 1), F=729(LC 1), J=380(LC 2), H=1036(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1574/1733, C-D=-1303/1689, D-E=-589/1345, E-F=-884/1388
 BOT CHORD B-AR=-1263/1345, AR-AS=-1263/1345, L-AS=-1263/1345, K-L=-447/655, K-AT=-447/655,
 J-AT=-447/655, J-AU=-447/655, I-AU=-447/655, H-I=-945/700, H-AV=-945/700,
 AV-AW=-945/700, F-AW=-945/700
 WEBS D-I=-481/0, E-I=-568/941, D-L=-651/780, C-L=-578/963

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 944 lb uplift at joint B, 813 lb uplift at joint F, 480 lb uplift at joint J and 661 lb uplift at joint H.
 - This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Load case(s) 4, 5, 6, 7, 8, 9, 10, 11 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	A16	GABLE	1	1	Job Reference (optional)

Builders FirstSource, N. Charleston, SC

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LOAD CASE(S) Standard

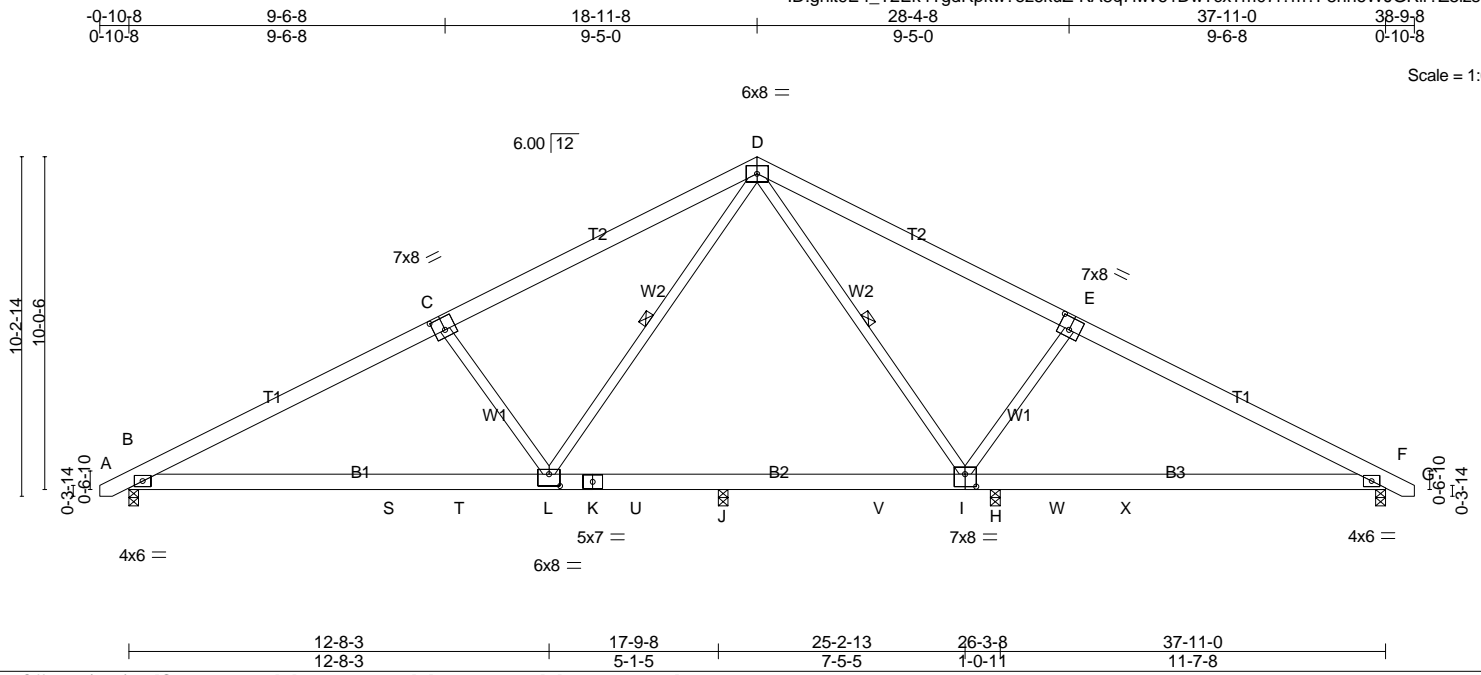
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-D=-60, D-G=-60, AL-AO=-20
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=141, B-D=84, D-F=84, F-G=71, J-AL=-12, H-J=68(F=80), H-AO=-12
Horz: A-B=-153, B-D=-96, D-F=96, F-G=83
- 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=71, B-D=84, D-F=84, F-G=141, J-AL=-12, H-J=68(F=80), H-AO=-12
Horz: A-B=-83, B-D=-96, D-F=96, F-G=153
- 6) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=49, B-D=14, D-F=41, F-G=29, J-AL=-12, H-J=68(F=80), H-AO=-12
Horz: A-B=-61, B-D=-26, D-F=53, F-G=41
- 7) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=29, B-D=41, D-F=14, F-G=49, J-AL=-12, H-J=68(F=80), H-AO=-12
Horz: A-B=-41, B-D=-53, D-F=26, F-G=61
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=110, B-D=75, D-F=48, F-G=36, J-AL=-12, H-J=68(F=80), H-AO=-12
Horz: A-B=-122, B-D=-87, D-F=60, F-G=48
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=36, B-D=48, D-F=75, F-G=110, J-AL=-12, H-J=68(F=80), H-AO=-12
Horz: A-B=-48, B-D=-60, D-F=87, F-G=122
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=72, B-D=37, D-F=26, F-G=14, J-AL=-12, H-J=68(F=80), H-AO=-12
Horz: A-B=-84, B-D=-49, D-F=38, F-G=26
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=14, B-D=26, D-F=37, F-G=72, J-AL=-12, H-J=68(F=80), H-AO=-12
Horz: A-B=-26, B-D=-38, D-F=49, F-G=84

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	A17	COMMON	3	1	Job Reference (optional)

Builders FirstSource, N. Charleston, SC

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Scale = 1:69.5



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 0.74	Vert(LL)	-0.13	L-O	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.72	Vert(TL)	-0.40	L-O	>542		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.42	Horz(TL)	0.04	F	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.22	L-O	>971		
								Weight: 242 lb	FT = 20%

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

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

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

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz B=-276(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) except B=912(LC 8), F=729(LC 9), J=467(LC 8), H=791(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) except B=1079(LC 1), F=650(LC 1), J=377(LC 2), H=1149(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1536/1676, C-D=-1254/1600, D-E=-427/1116, E-F=-730/1189
 BOT CHORD B-S=-1224/1315, S-T=-1224/1315, L-T=-1224/1315, K-L=-389/597, K-U=-389/597,
 J-U=-389/597, J-V=-389/597, I-V=-389/597, H-I=-779/570, H-W=-779/570, W-X=-779/570,
 F-X=-779/570
 WEBS D-I=-614/140, E-I=-574/945, D-L=-652/773, C-L=-581/966

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 912 lb uplift at joint B, 729 lb uplift at joint F, 467 lb uplift at joint J and 791 lb uplift at joint H.
 - 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) Load case(s) 4, 5, 6, 7, 8, 9, 10, 11 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 10) 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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	A17	COMMON	3	1	Job Reference (optional)

Builders FirstSource, N. Charleston, SC

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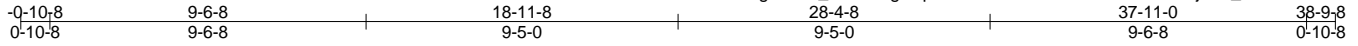
LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: A-D=-60, D-G=-60, M-P=-20
- 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=141, B-D=84, D-F=84, F-G=71, J-M=-12, H-J=68(F=80), H-P=-12
Horz: A-B=-153, B-D=-96, D-F=96, F-G=83
- 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=71, B-D=84, D-F=84, F-G=141, J-M=-12, H-J=68(F=80), H-P=-12
Horz: A-B=-83, B-D=-96, D-F=96, F-G=153
- 6) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=49, B-D=14, D-F=41, F-G=29, J-M=-12, H-J=68(F=80), H-P=-12
Horz: A-B=-61, B-D=-26, D-F=53, F-G=41
- 7) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=29, B-D=41, D-F=14, F-G=49, J-M=-12, H-J=68(F=80), H-P=-12
Horz: A-B=-41, B-D=-53, D-F=26, F-G=61
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=110, B-D=75, D-F=48, F-G=36, J-M=-12, H-J=68(F=80), H-P=-12
Horz: A-B=-122, B-D=-87, D-F=60, F-G=48
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=36, B-D=48, D-F=75, F-G=110, J-M=-12, H-J=68(F=80), H-P=-12
Horz: A-B=-48, B-D=-60, D-F=87, F-G=122
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=72, B-D=37, D-F=26, F-G=14, J-M=-12, H-J=68(F=80), H-P=-12
Horz: A-B=-84, B-D=-49, D-F=38, F-G=26
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: A-B=14, B-D=26, D-F=37, F-G=72, J-M=-12, H-J=68(F=80), H-P=-12
Horz: A-B=-26, B-D=-38, D-F=49, F-G=84

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	A18	COMMON	4	1	

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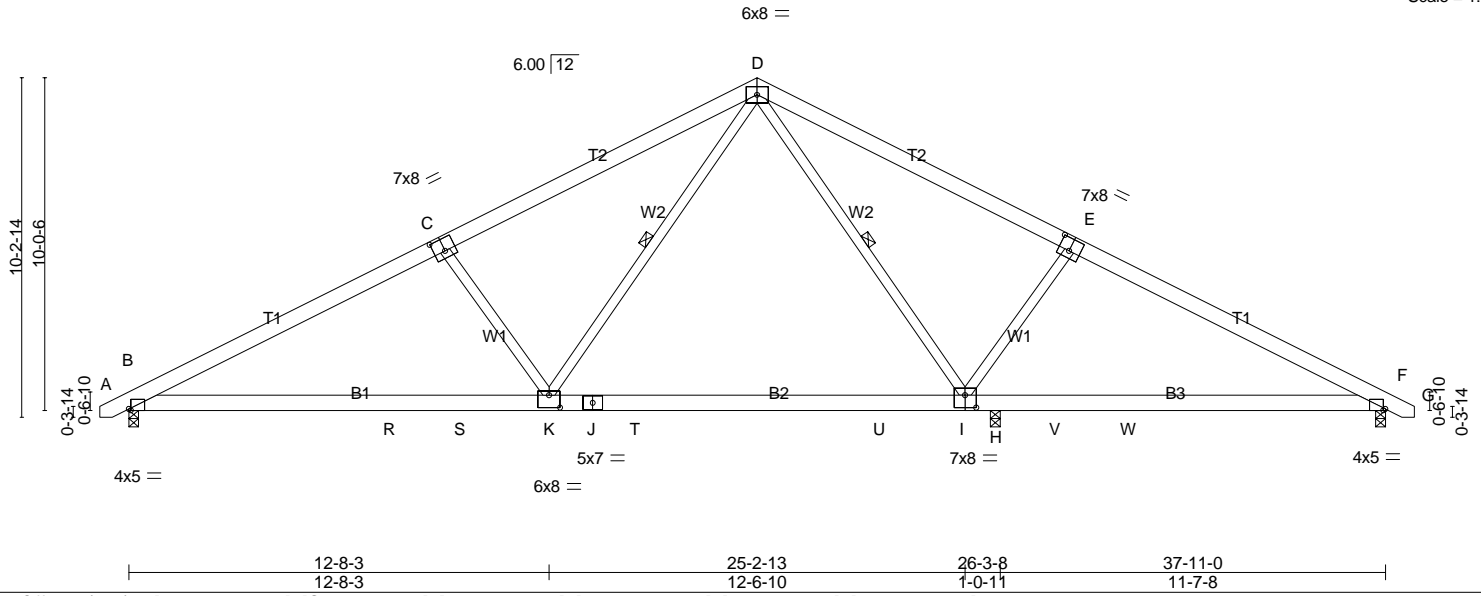


Plate Offsets (X,Y)-- [B:0-0-12,Edge], [C:0-4-0,0-4-8], [E:0-4-0,0-4-8], [F:0-0-12,Edge], [I:0-4-0,0-4-8], [K:0-4-0,0-4-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.65	Vert(LL)	-0.32	I-K	>992	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.97	Vert(TL)	-0.62	I-K	>503	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.54	Horz(TL)	0.05	F	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.24	I-K	>999	240		
									Weight: 242 lb	FT = 20%

LUMBER-

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

BRACING-

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

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

REACTIONS. (lb/size) B=1218/0-3-8 (min. 0-1-8), F=795/0-3-8 (min. 0-1-8), H=1102/0-3-8 (min. 0-1-8)
 Max Horz B=-276(LC 9)
 Max Uplift B=-911(LC 8), F=-630(LC 9), H=-698(LC 9)
 Max Grav B=1218(LC 1), F=808(LC 2), H=1102(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-1981/1767, C-D=-1729/1693, D-E=-939/956, E-F=-1190/1030
 BOT CHORD B-R=-1303/1700, R-S=-1303/1700, K-S=-1303/1700, J-K=-328/883, J-T=-328/883,
 T-U=-328/883, I-U=-328/883, H-I=-640/990, H-V=-640/990, V-W=-640/990, F-W=-640/990
 WEBS D-I=-431/398, E-I=-563/950, D-K=-841/1029, C-K=-567/956

NOTES-

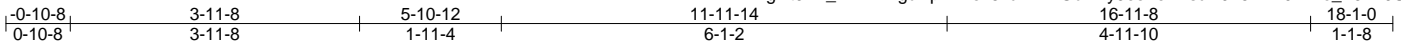
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 911 lb uplift at joint B, 630 lb uplift at joint F and 698 lb uplift at joint H.
- 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

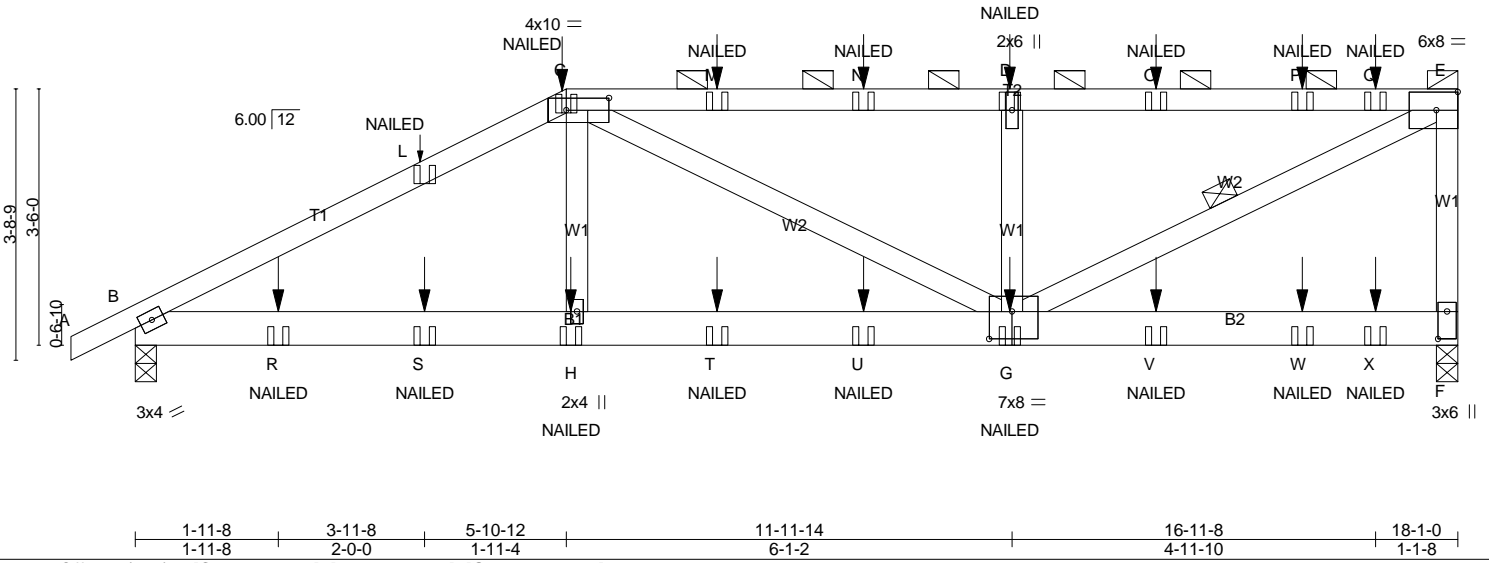
Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	A19	Half Hip Girder	1	1	Job Reference (optional)

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Scale = 1:31.5



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.97	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.57	Vert(LL) -0.06 G-H >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.52	Vert(TL) -0.15 G-H >999 240		
BCDL 10.0	Rep Stress Incr NO	(Matrix-M)	Horz(TL) -0.03 F n/a n/a		
	Code IRC2009/TPI2007		Wind(LL) 0.15 G-H >999 240		Weight: 103 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* T2: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-6-14 oc purlins, except end verticals, and 2-0-0 oc purlins (3-6-12 max.): C-E.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-5-5 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 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=1449/0-3-8 (min. 0-1-11), B=1328/0-3-8 (min. 0-1-9)
Max Horz B=311(LC 13)
Max Uplift F=1458(LC 5), B=1184(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-L=-2116/1852, C-L=-2022/1852, C-M=-1929/1918, M-N=-1929/1918, D-N=-1929/1918,
D-O=-1929/1918, O-P=-1929/1918, P-Q=-1929/1918, E-Q=-1929/1918, E-F=-1288/1412
BOT CHORD B-R=-1746/1825, R-S=-1746/1825, H-S=-1746/1825, H-T=-1753/1842, T-U=-1753/1842,
G-U=-1753/1842
WEBS C-H=-144/484, C-G=-289/127, D-G=-755/1099, E-G=-2077/2103

- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) 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 1458 lb uplift at joint F and 1184 lb uplift at joint B.
 - 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
 - 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	A19	Half Hip Girder	1	1	Job Reference (optional)

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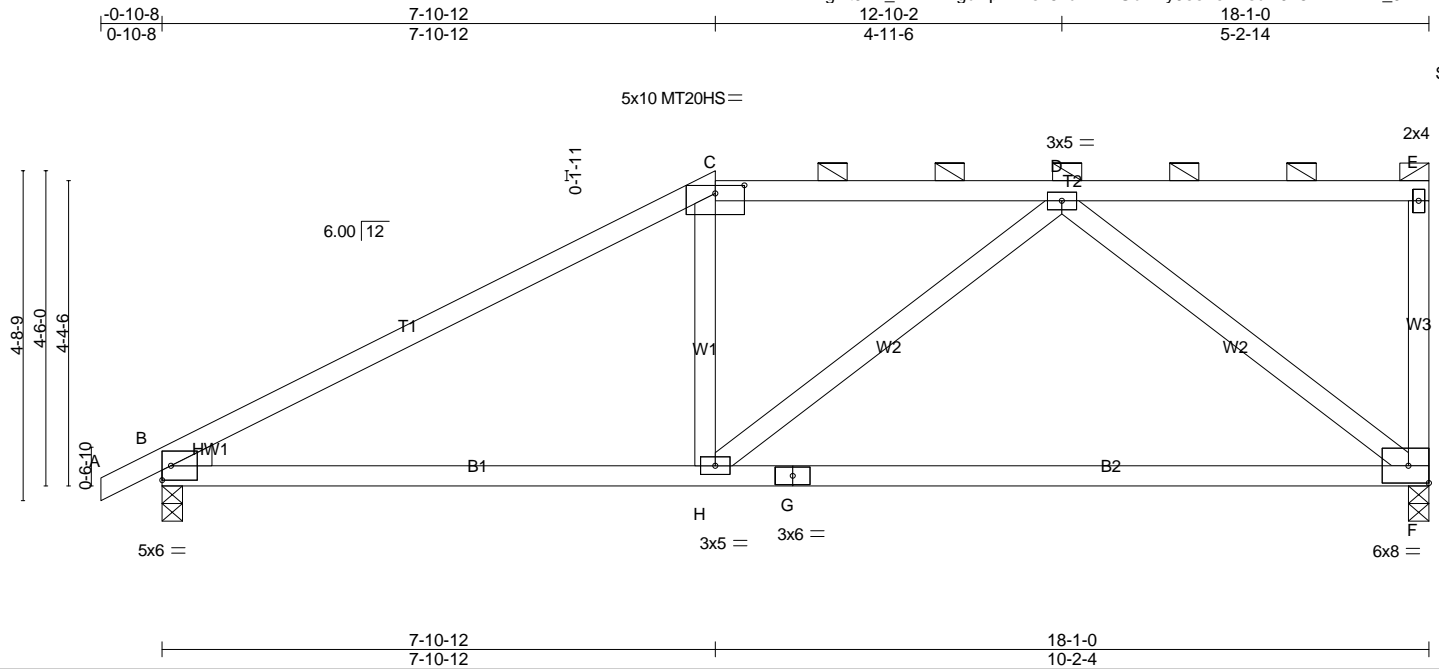
LOAD CASE(S) Standard
 Concentrated Loads (lb)

Vert: C=-95(F) H=-54(F) G=-54(F) D=-95(F) M=-95(F) N=-95(F) O=-95(F) P=-95(F) Q=-96(F) R=-92(F) S=-151(F) T=-54(F) U=-54(F) V=-54(F) W=-54(F) X=-54(F)

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	A20	Half Hip	1	1	Job Reference (optional)

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Scale = 1:32.9

Plate Offsets (X,Y)-- [C:0-5-0-0-1-7]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.86	Vert(LL) -0.26	F-H	>829	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.86	Vert(TL) -0.63	F-H	>339	240	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.64	Horz(TL) -0.03	B	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix-S)	Wind(LL) 0.23	H-K	>936	240		
	Code IRC2009/TPI2007						Weight: 88 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-11-5 max.): C-E.
BOT CHORD Rigid ceiling directly applied.

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

REACTIONS. (lb/size) B=771/0-3-8 (min. 0-1-8), F=716/0-3-8 (min. 0-1-8)
Max Horz B=387(LC 8)
Max Uplift B=-548(LC 8), F=-545(LC 9)
Max Grav B=771(LC 13), F=716(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1050/749, C-D=-859/834
BOT CHORD B-H=-825/859, G-H=-653/644, F-G=-653/644
WEBS D-H=-230/315, D-F=-771/836

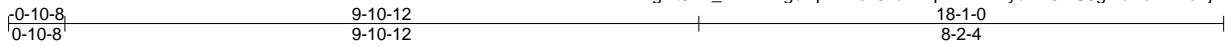
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 548 lb uplift at joint B and 545 lb uplift at joint F.
 - 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	A21	HALF HIP	1	1	

Builders FirstSource, N. Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Mon Jan 22 13:52:56 2018 Page 1
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Scale = 1:35.9

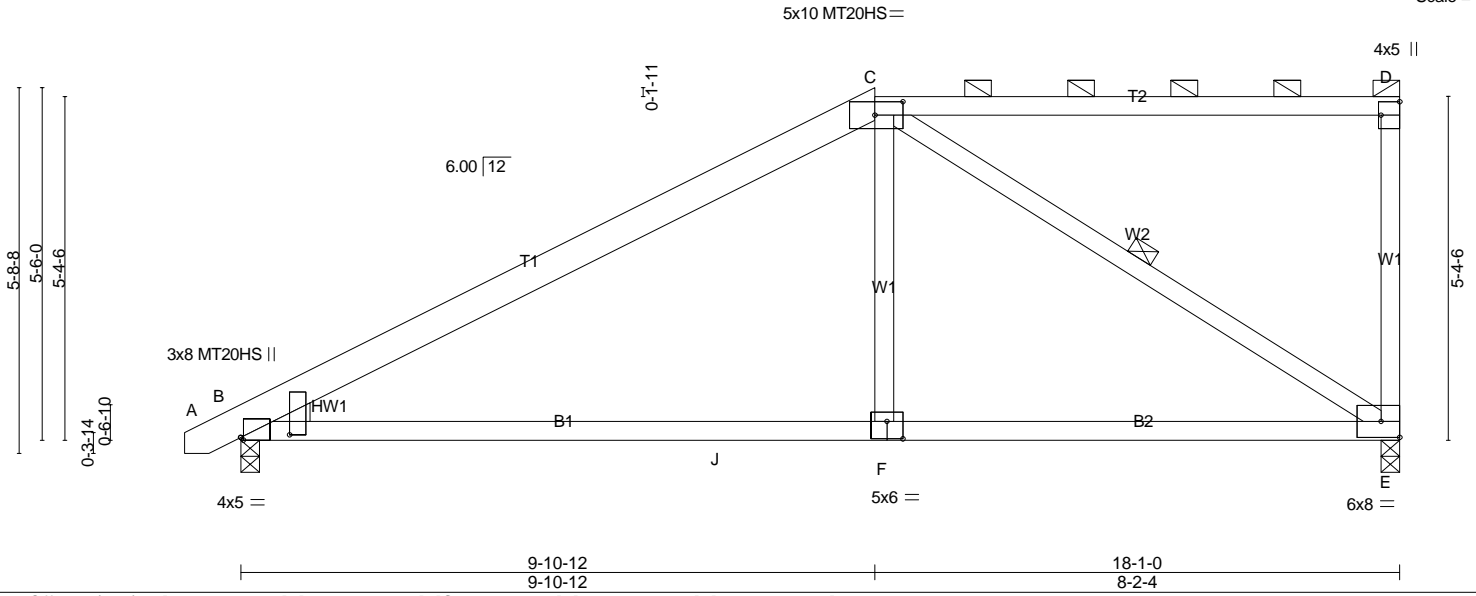


Plate Offsets (X,Y)-- [B:0-0-8,0-9-3], [B:0-0-8,Edge], [C:0-5-4,0-2-8], [D:Edge,0-3-8], [F:0-3-0,0-3-4]

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 0.85	Vert(LL)	-0.13	F-I	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.73	Vert(TL)	-0.40	F-I	>537	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.38	Horz(TL)	0.03	E	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.31	F-I	>687	240		
									Weight: 96 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
T2: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

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

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

REACTIONS. (lb/size) E=716/0-3-8 (min. 0-1-8), B=760/0-3-8 (min. 0-1-8)
Max Horz B=469(LC 8)
Max Uplift E=-535(LC 9), B=-531(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-876/588, D-E=-227/286
BOT CHORD B-J=-740/725, F-J=-740/725, E-F=-738/733
WEBS C-F=0/382, C-E=-818/834

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BC DL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 535 lb uplift at joint E and 531 lb uplift at joint B.
 - 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	B01	Common Supported Gable	2	1	Job Reference (optional)

Builders FirstSource, N. Charleston, SC

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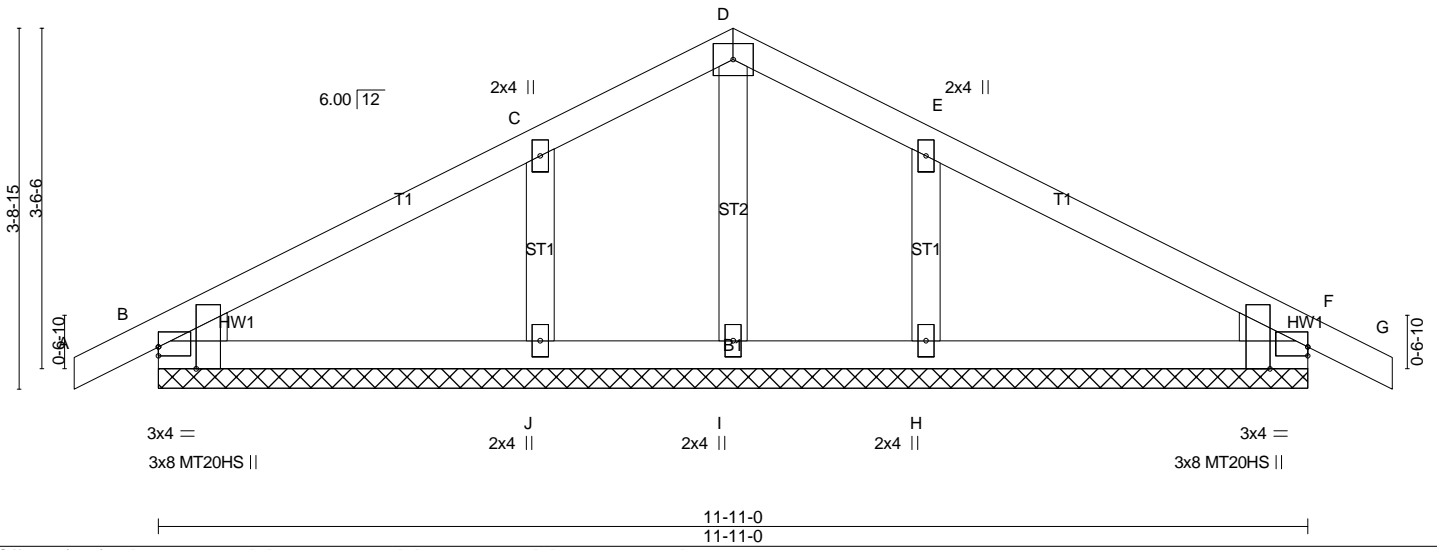
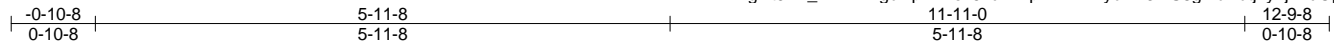


Plate Offsets (X,Y)-- [B:0-0-0,0-1-2], [B:0-2-12,Edge], [F:Edge,0-1-2], [F:0-2-12,Edge]

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 0.27	Vert(LL)	0.00	G	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(TL)	0.01	G	n/r	120	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(TL)	0.00	F	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)							
									Weight: 53 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 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 11-11-0.
 (lb) - Max Horz B=-99(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) except B=-180(LC 8), F=-200(LC 9), J=-339(LC 8), H=-337(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) B, F, I except J=321(LC 1), H=321(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS C-J=-227/461, E-H=-227/461

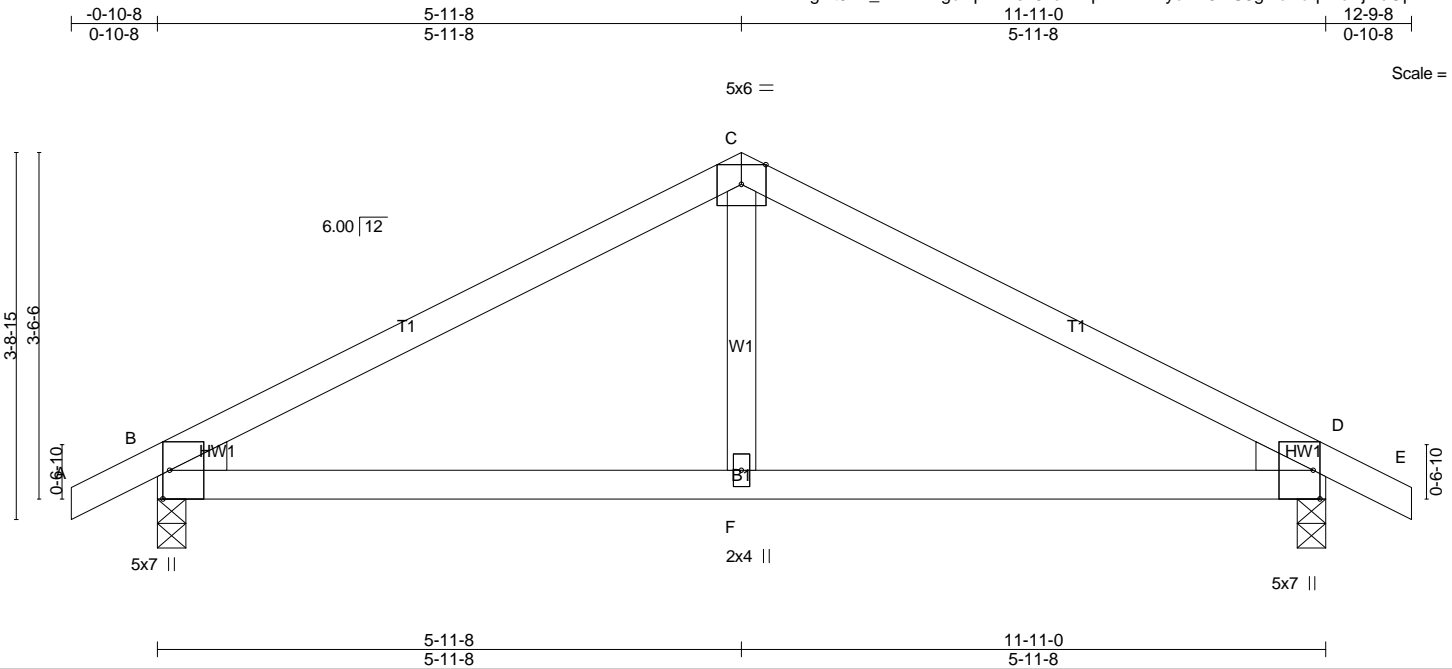
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - All plates are MT20 plates unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 180 lb uplift at joint B, 200 lb uplift at joint F, 339 lb uplift at joint J and 337 lb uplift at joint H.
 - This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	B02	Common	3	1	

Builders FirstSource, N. Charleston, SC

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ID:ght9E4_T2Ek4TgdRpkw?ez6kuZ-lkpzmnznPybVK3f2S8gMdPdQZvuBjl7uOpEDI4zsoPr



Scale = 1:23.5

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.47	Vert(LL)	-0.03	F-L	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.37	Vert(TL)	-0.07	F-L	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(TL)	-0.01	B	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.07	F-I	>999	240		
									Weight: 47 lb	FT = 20%

LUMBER-

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

BRACING-

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

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

REACTIONS. (lb/size) B=529/0-3-8 (min. 0-1-8), D=529/0-3-8 (min. 0-1-8)
 Max Horz B=-111(LC 9)
 Max Uplift B=-422(LC 8), D=-422(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-628/653, C-D=-628/653
 BOT CHORD B-F=-361/505, D-F=-361/505
 WEBS C-F=-32/252

NOTES-

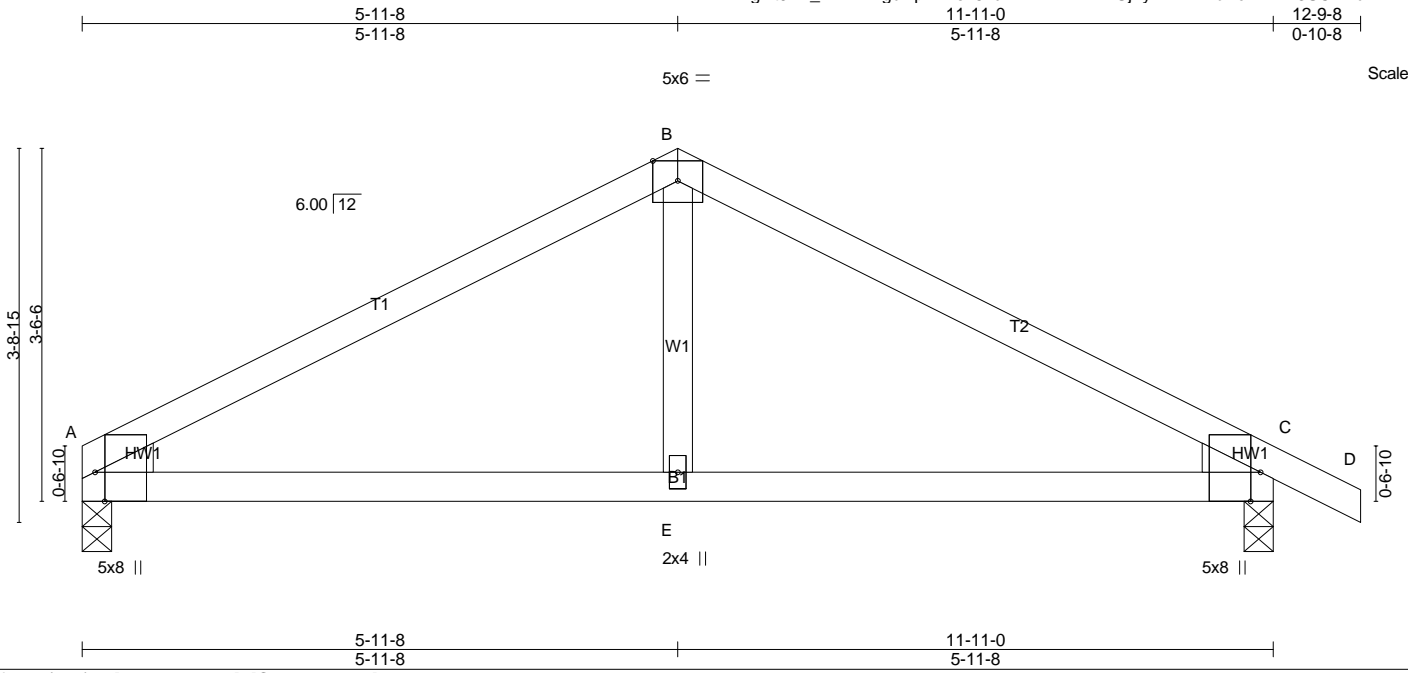
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 130mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 422 lb uplift at joint B and 422 lb uplift at joint D.
- This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	B03	Common	3	1	Job Reference (optional)

Builders FirstSource, N. Charleston, SC

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Scale = 1:23.1

Plate Offsets (X,Y)-- [A:0-3-8,Edge], [C: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 0.48	Vert(LL)	-0.04	E-K	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.39	Vert(TL)	-0.08	E-K	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(TL)	-0.01	A	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.07	E-K	>999	240		
									Weight: 45 lb	FT = 20%

LUMBER-

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

BRACING-

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

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

REACTIONS. (lb/size) C=531/0-3-8 (min. 0-1-8), A=475/0-3-8 (min. 0-1-8)
 Max Horz A=-132(LC 9)
 Max UpliftC=-423(LC 9), A=-323(LC 8)

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

TOP CHORD A-B=-633/664, B-C=-634/665
 BOT CHORD A-E=-372/510, C-E=-372/510
 WEBS B-E=-38/253

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 130mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 423 lb uplift at joint C and 323 lb uplift at joint A.
- This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embar/
MASTER	C01	GABLE	1	1	

Builders FirstSource, N. Charleston, SC

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ID:ght9E4_T2Ek4TgdRpkw?ez6kuZ-DxNLz7zPAGjLyDEE?rBbAcA?IIEMSAf1dTznFWzsoPq

0-10-8	10-3-0	14-6-8	20-6-0	21-4-8
0-10-8	10-3-0	4-3-8	5-11-8	0-10-8

4x5 =

Scale = 1:38.9

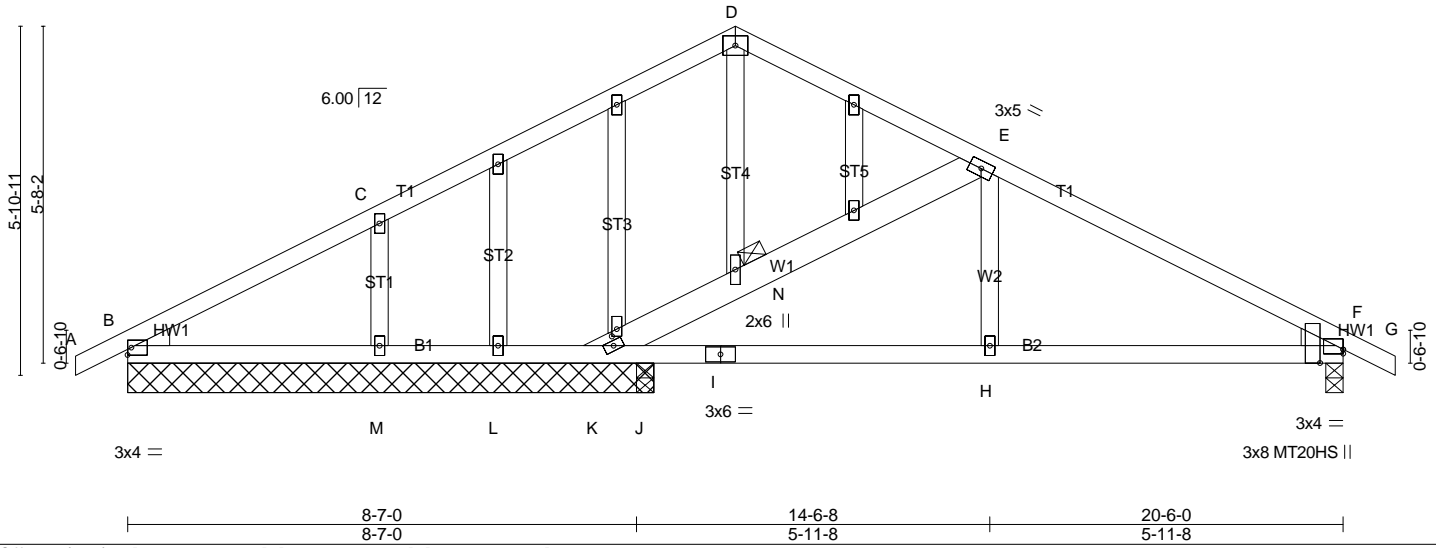


Plate Offsets (X,Y)-- [F:0-2-12,Edge], [F:0-0-0,0-0-14], [K:0-1-8,0-1-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.50	Vert(LL) -0.02	H-X	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.38	Vert(TL) -0.06	H-X	>999	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.21	Horz(TL) 0.02	F	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	(Matrix-S)	Wind(LL) 0.06	H-X	>999	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: 2x6 SP No.2
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
JOINTS 1 Brace at Jt(s): N

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

REACTIONS. All bearings 8-10-8 except (jt=length) F=0-3-8, J=0-3-8.
(lb) - Max Horz B=169(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) except B=-158(LC 8), K=-296(LC 9), M=-447(LC 8), F=-534(LC 9)
Max Grav All reactions 250 lb or less at joint(s) L except B=428(LC 1), K=304(LC 1), M=509(LC 13), F=774(LC 1), J=281(LC 3), B=428(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-482/123, C-D=-537/436, D-E=-506/472, E-F=-1122/812
BOT CHORD B-M=-55/390, L-M=-55/390, K-L=-55/390, J-K=-525/944, I-J=-525/944, H-I=-525/944, F-H=-525/944
WEBS K-N=-661/636, E-N=-653/627, C-M=-410/577

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) All plates are 2x4 MT20 unless otherwise indicated.
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 158 lb uplift at joint B, 296 lb uplift at joint K, 447 lb uplift at joint M, 534 lb uplift at joint F and 158 lb uplift at joint B.
 - 11) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	C01	GABLE	1	1	Job Reference (optional)

Builders FirstSource, N. Charleston, SC

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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: A-B=-60, B-D=-69(F=-9), D-E=-69(F=-9), E-G=-60, J-S=-29(F=-9), J-V=-20, E-K=-39(F)

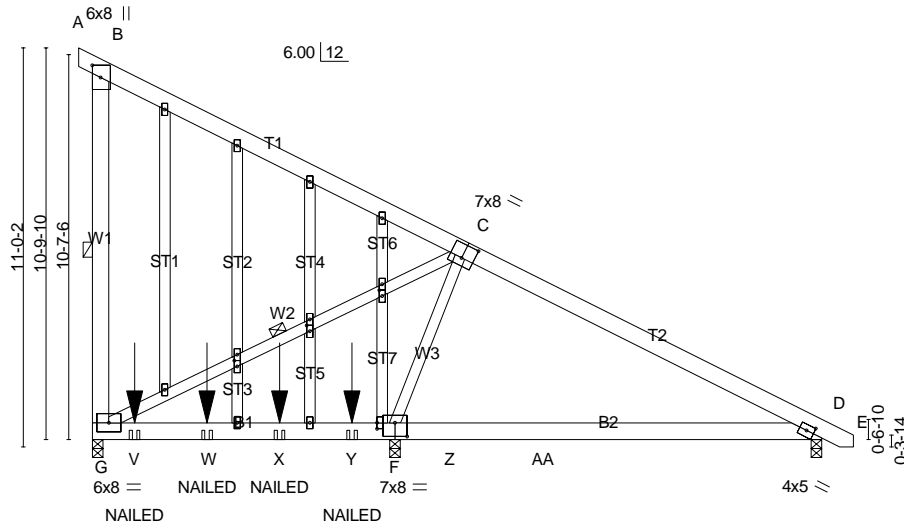
Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	D01	GABLE	1	1	Job Reference (optional)

Builders FirstSource, N. Charleston, SC

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0-4-8 10-1-12 20-1-8 21-0-0
0-4-8 10-1-12 9-11-12 0-10-8

Scale: 3/16"=1'



1-2-0 3-2-0 5-2-0 7-2-0 8-4-4 20-1-8
1-2-0 2-0-0 2-0-0 2-0-0 1-2-4 11-9-4

Plate Offsets (X,Y)-- [B:0-4-0,0-2-12], [C:0-4-0,0-4-8], [D:0-2-8,0-1-14], [F:0-4-0,0-4-8], [J:0-1-14,0-1-0], [M:0-1-14,0-1-0], [P:0-1-14,0-1-0], [R:0-2-0,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.70	Vert(LL) -0.08	F-U	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.74	Vert(TL) -0.21	F-U	>675	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.30	Horz(TL) 0.01	D	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	(Matrix-M)	Wind(LL) 0.33	F-G	>297	240		
							Weight: 190 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x6 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 8-9-4 oc bracing.
WEBS 1 Row at midpt B-G, 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=552/0-3-8 (min. 0-1-8), F=983/0-3-8 (min. 0-1-8), D=522/0-3-8 (min. 0-1-8)
Max Horz G=-925(LC 4)
Max UpliftG=-1017(LC 4), F=-1094(LC 7), D=-351(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-G=-281/360, B-C=-336/239, C-D=-391/203
BOT CHORD G-V=0/358, V-W=0/358, W-X=0/358, X-Y=0/358, F-Y=0/358, F-Z=-23/287, Z-AA=-23/287,
D-AA=-23/287
WEBS C-G=-60/386, C-F=-557/607

- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left and right exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) 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, with BC DL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1017 lb uplift at joint G, 1094 lb uplift at joint F and 351 lb uplift at joint D.
 - 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - 11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
 - 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	D01	GABLE	1	1	Job Reference (optional)

Builders FirstSource, N. Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Mon Jan 22 13:52:58 2018 Page 2
ID:ghlt9E4_T2Ek4TgdRpkw?ez6kuZ-h7xjBT_1xZrCaNpQZZjqipi7UiUyBcPBs7jKnyzsoPp

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: V=-98(F) W=-97(F) X=-97(F) Y=-97(F)

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	D02	ROOF SPECIAL	3	1	Job Reference (optional)

Builders FirstSource, N. Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Mon Jan 22 13:52:59 2018 Page 1
ID:ghlt9E4_T2Ek4TgdRpkw?ez6kuZ-9JV5Oo?fitz3BXOd7GE3F1Fln6tvw3ZK5nSuJPzsoPo

-0-4-8 10-1-12 20-1-8 21-0-0
0-4-8 10-1-12 9-11-12 0-10-8

Scale = 1:61.9

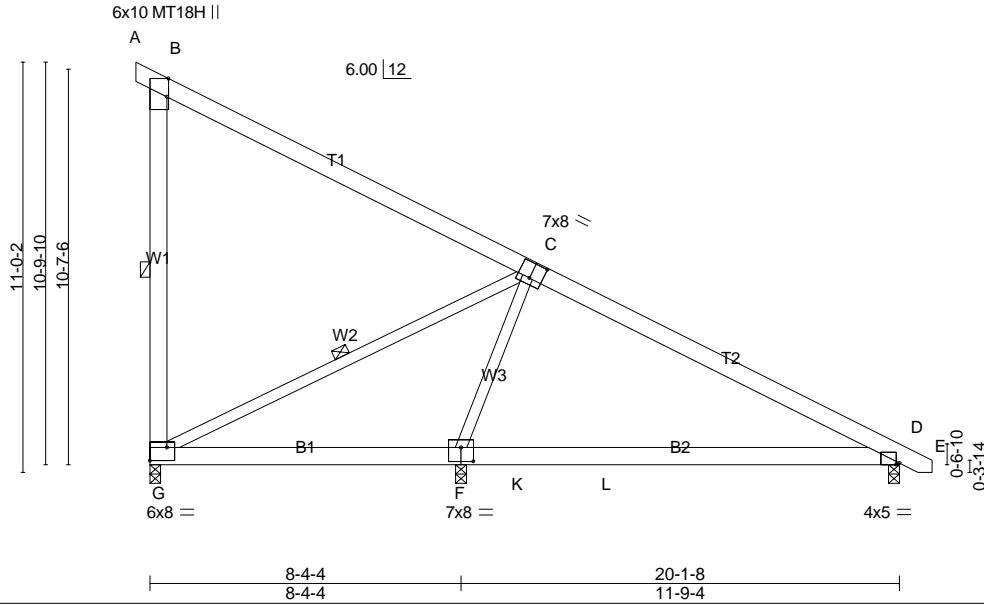


Plate Offsets (X,Y)-- [B:0-5-14,Edge], [C:0-4-0,0-5-0], [D:0-1-0,Edge], [F:0-4-0,0-4-8], [G:Edge,0-4-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.66	Vert(LL)	-0.08	F-J	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.56	Vert(TL)	-0.24	F-J	>592	240	MT18H	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.31	Horz(TL)	0.01	D	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.16	F-G	>592	240		Weight: 149 lb FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3 *Except*
 W1: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt B-G, 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=368/0-3-8 (min. 0-1-8), F=766/0-3-8 (min. 0-1-8), D=535/0-3-8 (min. 0-1-8)
 Max Horz G=-925(LC 6)
 Max UpliftG=-707(LC 6), F=-712(LC 9), D=-376(LC 9)

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

TOP CHORD B-G=-281/581, B-C=-452/223, C-D=-387/309
 BOT CHORD F-G=0/558, F-K=-24/357, K-L=-24/357, D-L=-24/357
 WEBS C-G=68/672, C-F=-566/707

NOTES-

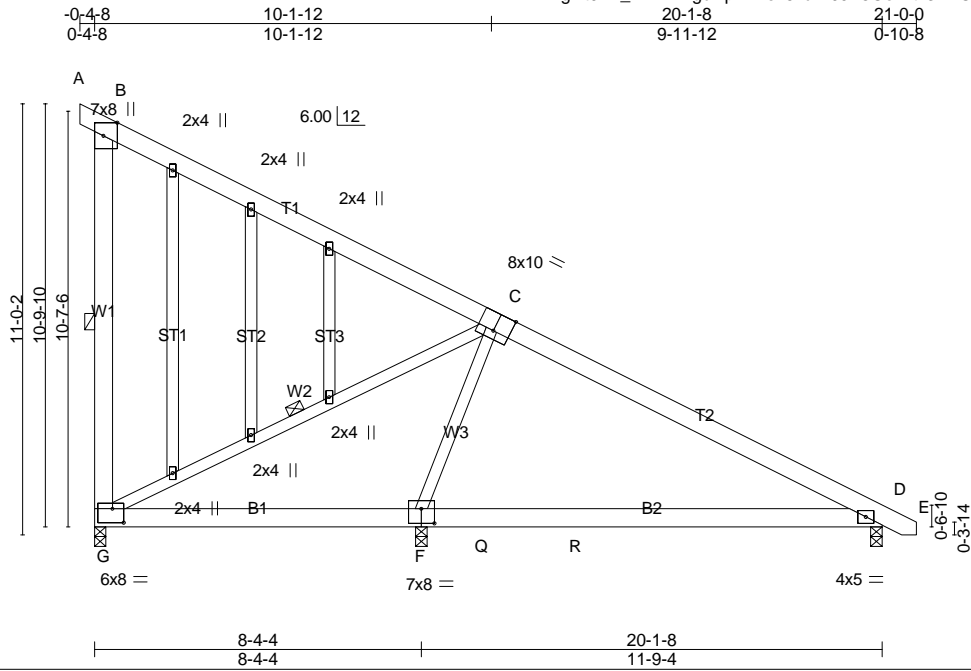
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 707 lb uplift at joint G, 712 lb uplift at joint F and 376 lb uplift at joint D.
- 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	D03	GABLE	1	1	Job Reference (optional)

Builders FirstSource, N. Charleston, SC

Run: 7.640 s Apr 22 2016 Print: 7.640 s Apr 22 2016 MiTek Industries, Inc. Mon Jan 22 13:52:59 2018 Page 1
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Scale = 1:58.9

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.64	Vert(LL) -0.08	F-P	>999	360		MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.41	Vert(TL) -0.24	F-P	>592	240			
BCLL 0.0 *	Lumber DOL 1.15	WB 0.31	Horz(TL) 0.01	D	n/a	n/a			
BCDL 10.0	Rep Stress Incr YES	(Matrix-S)	Wind(LL) 0.11	F-P	>999	240			
	Code IRC2009/TPI2007							Weight: 175 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3 *Except*
 W1: 2x6 SP No.2
 OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt B-G, 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=368/0-3-8 (min. 0-1-8), F=766/0-3-8 (min. 0-1-8), D=535/0-3-8 (min. 0-1-8)
 Max Horz G=-925(LC 6)
 Max UpliftG=-529(LC 6), F=-494(LC 9), D=-388(LC 9)

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

TOP CHORD B-G=-281/586, B-C=-483/210, C-D=-387/297
 BOT CHORD F-G=0/561, F-Q=-23/362, Q-R=-23/362, D-R=-23/362
 WEBS C-G=-68/703, C-F=-566/705

NOTES-

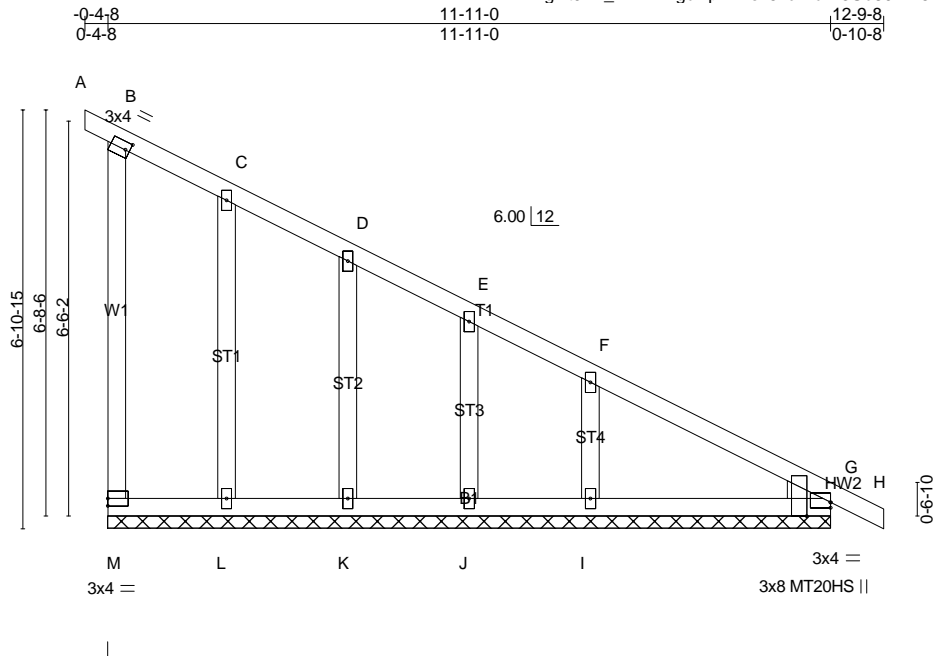
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 529 lb uplift at joint G, 494 lb uplift at joint F and 388 lb uplift at joint D.
- 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	E01	Roof Special Supported Gable	1	1	Job Reference (optional)

Builders FirstSource, N. Charleston, SC

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Scale = 1:38.0

Plate Offsets (X,Y)-- [B:0-0-13,0-1-8], [G:Edge,0-1-2], [G: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 0.55	Vert(LL)	0.00	H	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.30	Vert(TL)	0.01	H	n/r	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(TL)	0.01	G	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)						
								Weight: 70 lb	FT = 20%

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

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

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

REACTIONS. All bearings 11-11-0.
 (lb) - Max Horz M=-574(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) G except M=-146(LC 6), J=-104(LC 9), K=-185(LC 9), L=-156(LC 9), I=-348(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) M, G, J, K, L except I=311(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD C-D=-370/124, D-E=-493/89, E-F=-577/66, F-G=-833/62
 BOT CHORD L-M=0/849, K-L=0/849, J-K=0/849, I-J=0/849, G-I=0/849
 WEBS D-K=-130/289, C-L=-117/308, F-I=-221/494

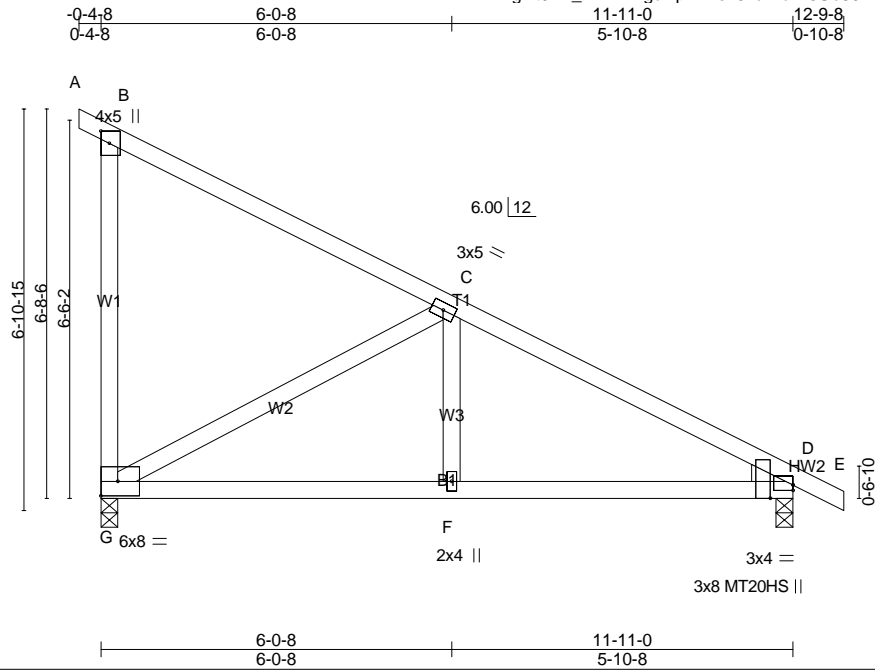
- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) 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) G except (J=lb) M=146, J=104, K=185, L=156, I=348.
 - 11) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 12) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	E02	Roof Special	4	1	Job Reference (optional)

Builders FirstSource, N. Charleston, SC

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Scale = 1:39.7

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.88	Vert(LL) -0.03	F-G	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.34	Vert(TL) -0.08	F-G	>999	240	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.15	WB 0.49	Horz(TL) 0.01	D	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix-S)	Wind(LL) 0.06	F-J	>999	240		
	Code IRC2009/TPI2007							Weight: 63 lb FT = 20%

LUMBER-

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

BRACING-

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

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

REACTIONS. (lb/size) D=525/0-3-8 (min. 0-1-8), G=501/0-3-8 (min. 0-1-8)
 Max Horz G=-571(LC 6)
 Max UpliftD=-390(LC 9), G=-479(LC 9)

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

TOP CHORD B-G=-179/408, B-C=-336/127, C-D=-631/526
 BOT CHORD F-G=-236/515, D-F=-236/515
 WEBS C-G=-567/847, C-F=0/258

NOTES-

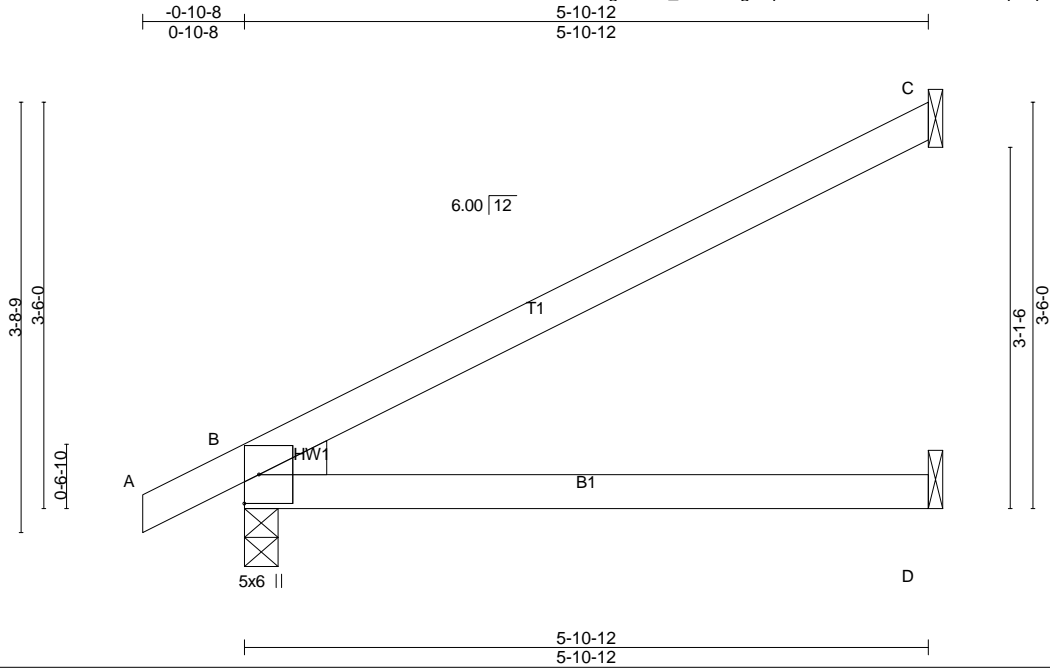
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) D=390, G=479.
- 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	J01	Jack-Open	56	1	Job Reference (optional)

Builders FirstSource, N. Charleston, SC

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Scale = 1:19.9

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 0.81	Vert(LL) -0.05 D-G >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.75	Vert(TL) -0.14 D-G >484 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.03 C n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	(Matrix-S)	Wind(LL) 0.15 D-G >461 240	Weight: 21 lb	FT = 20%

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

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

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

REACTIONS. (lb/size) C=155/Mechanical, B=290/0-3-8 (min. 0-1-8), D=74/Mechanical
Max Horz B=307(LC 8)
Max Uplift C=-233(LC 8), B=-212(LC 8), D=-17(LC 8)
Max Grav C=155(LC 1), B=290(LC 1), D=105(LC 3)

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

NOTES-

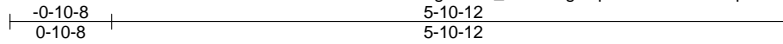
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) C=233, B=212.
- 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

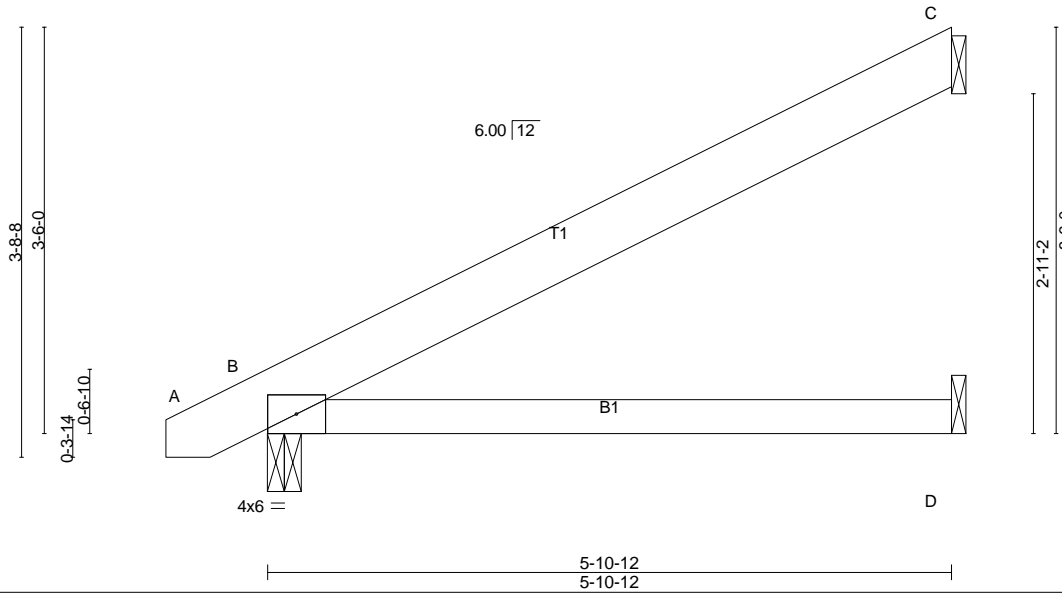
Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	J02	JACK-OPEN	4	1	

Builders FirstSource, N. Charleston, SC

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Scale = 1:19.9



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)	-0.03	D-G	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.63	Vert(TL)	-0.09	D-G	>778		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.01	C	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.18	D-G	>385		
								Weight: 27 lb	FT = 20%

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

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

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

REACTIONS. (lb/size) C=176/Mechanical, B=278/0-3-8 (min. 0-1-8), D=54/Mechanical
 Max Horz B=295(LC 8)
 Max Uplift C=-290(LC 8), B=-332(LC 8), D=-96(LC 8)
 Max Grav C=176(LC 1), B=278(LC 1), D=92(LC 3)

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

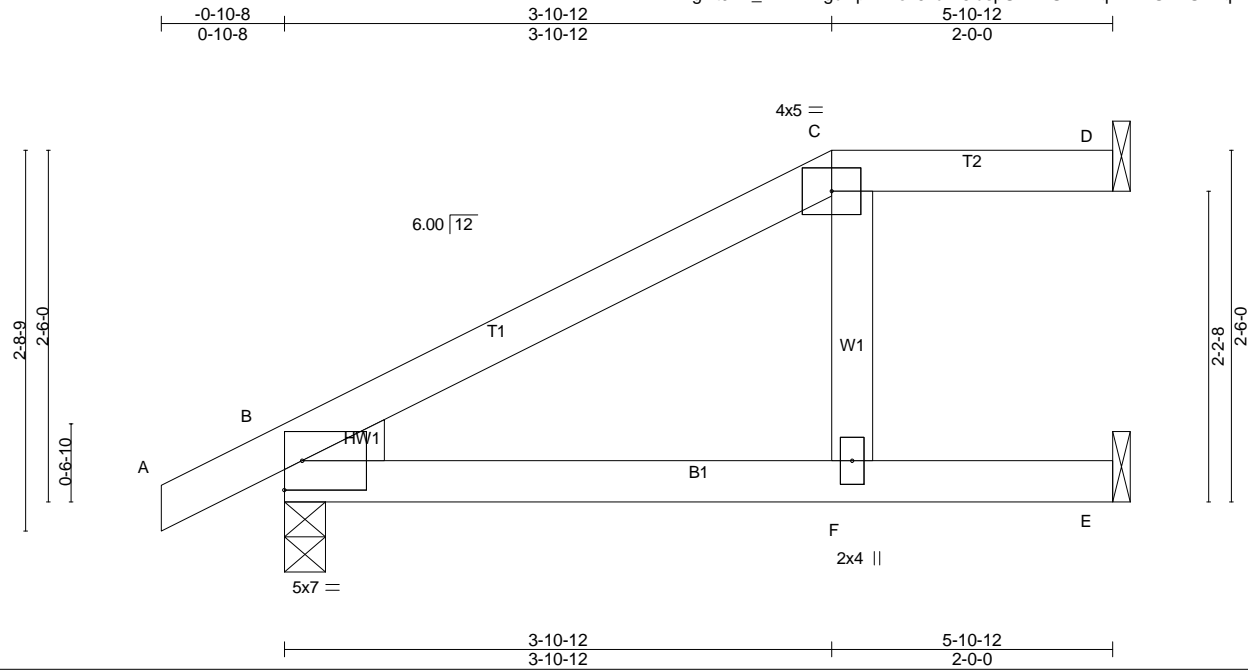
- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) C=290, B=332.
 - 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	J03	Half Hip	8	1	Job Reference (optional)

Builders FirstSource, N. Charleston, SC

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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.43	Vert(LL)	-0.08	F-I	>849	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.82	Vert(TL)	-0.22	F-I	>313		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(TL)	-0.13	D	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix-S)	Wind(LL)	0.24	F-I	>295	Weight: 24 lb	FT = 20%

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

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

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

REACTIONS. (lb/size) D=58/Mechanical, B=290/0-3-8 (min. 0-1-8), E=171/Mechanical
Max Horz B=224(LC 8)
Max Uplift D=-73(LC 6), B=-242(LC 8), E=-123(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-F=-180/387

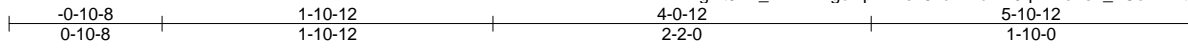
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) B=242, E=123.
 - 9) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	J04	Half Hip Girder	8	1	Job Reference (optional)

Builders FirstSource, N. Charleston, SC

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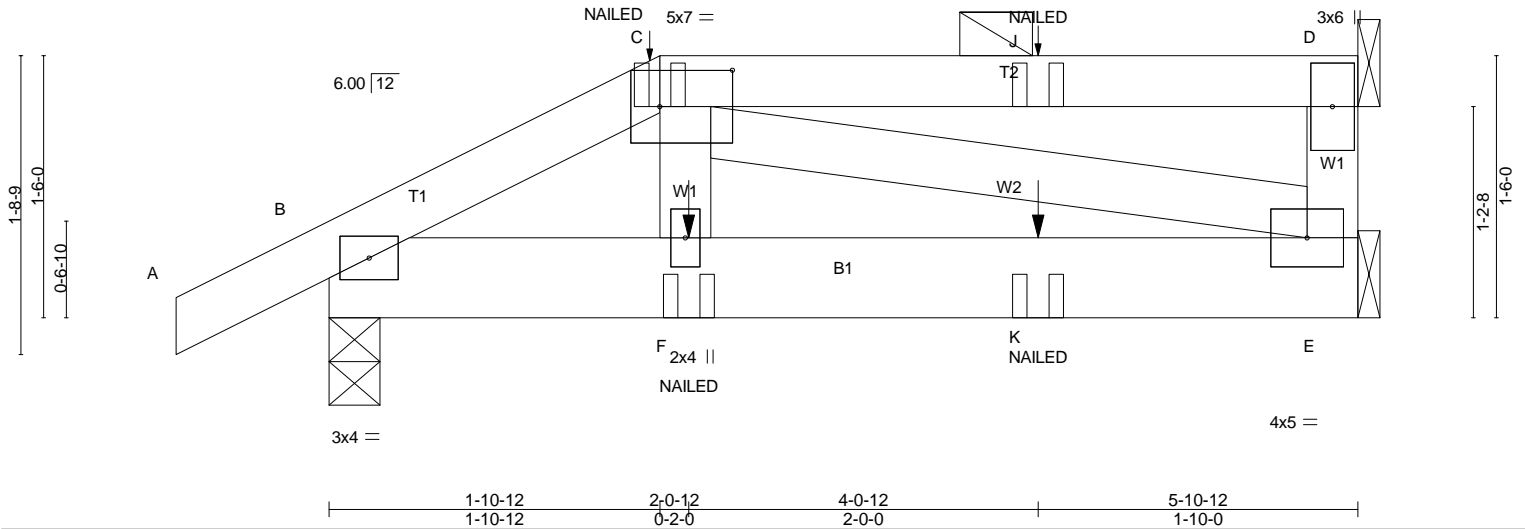


Plate Offsets (X,Y)-- [C:0-5-0,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.32	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.10	Vert(LL) -0.00 E-F >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Vert(TL) -0.01 E-F >999 240		
BCDL 10.0	Rep Stress Incr NO	(Matrix-M)	Horz(TL) 0.00 D n/a n/a		
	Code IRC2009/TPI2007		Wind(LL) 0.00 F >999 240		
				Weight: 32 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-10-12 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) E=112/Mechanical, B=288/0-3-8 (min. 0-1-8), D=116/Mechanical
 Max Horz B=137(LC 6)
 Max Uplift E=-34(LC 7), B=-253(LC 6), D=-145(LC 4)
 Max Grav E=134(LC 3), B=288(LC 1), D=116(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD B-C=-293/170
 WEBS C-E=-256/168

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide metal plate or equivalent at bearing(s) D to support reaction shown.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E except (jt=lb) B=253, D=145.
 - This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails. For more details refer to MiTek's ST-TOENAIL Detail.
 - 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, E-G=-20

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/ Job Reference (optional)
MASTER	J04	Half Hip Girder	8	1	

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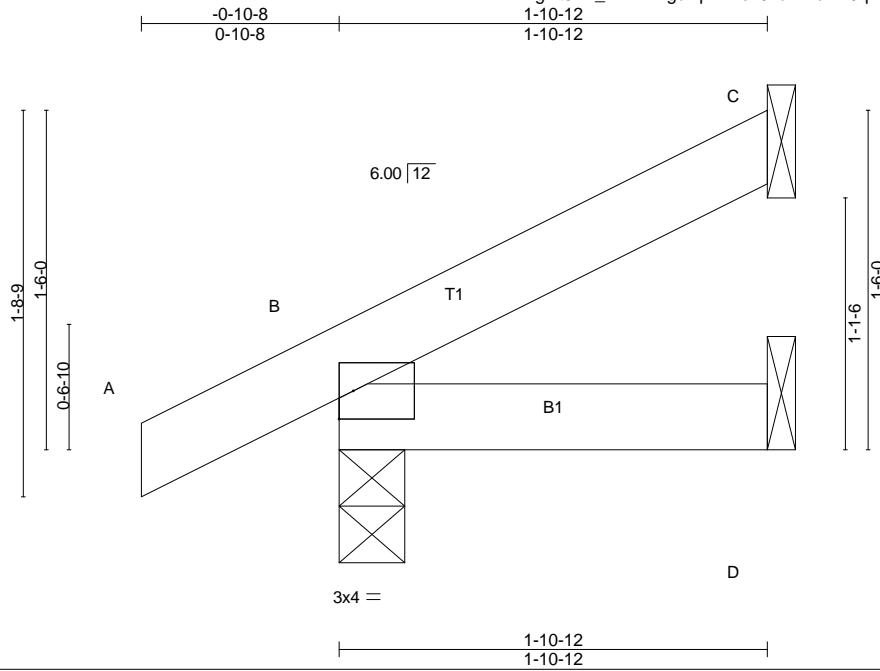
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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: F=-2(B) K=-2(B)

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	J05	Jack-Open	16	1	

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Scale = 1:10.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.10	Vert(LL) -0.00	G	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.05	Vert(TL) -0.00	D-G	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(TL) -0.00	C	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix-M)	Wind(LL) 0.00	G	>999	240		
	Code IRC2009/TPI2007						Weight: 8 lb	FT = 20%

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

BRACING-
 TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 1-10-12 oc purlins.
 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=45/Mechanical, B=142/0-3-8 (min. 0-1-8), D=18/Mechanical
 Max Horz B=136(LC 8)
 Max UpliftC=-71(LC 8), B=-147(LC 8)
 Max GravC=45(LC 1), B=142(LC 1), D=33(LC 3)

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

NOTES-

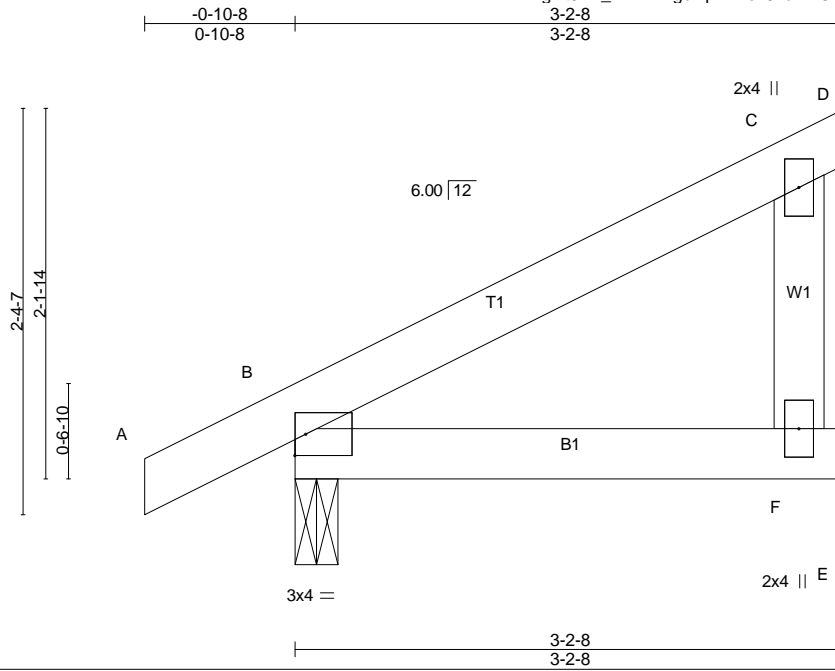
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C except (jt=lb) B=147.
- 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	J06	Jack-Closed	4	1	

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Scale = 1:13.4

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.23	Vert(LL) -0.00	F-I	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.24	Vert(TL) -0.01	F-I	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(TL) -0.01	B	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	(Matrix-M)	Wind(LL) 0.02	F-I	>999	240		
	Code IRC2009/TPI2007						Weight: 14 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-2-8 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) F=117/Mechanical, B=183/0-3-0 (min. 0-1-8)
 Max Horz B=192(LC 8)
 Max Uplift F=-202(LC 8), B=-234(LC 8)

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

- NOTES-**
- 1) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) F=202, B=234.
 - 7) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	H&H-NC/Embark/
MASTER	V01	GABLE	1	1	Job Reference (optional)

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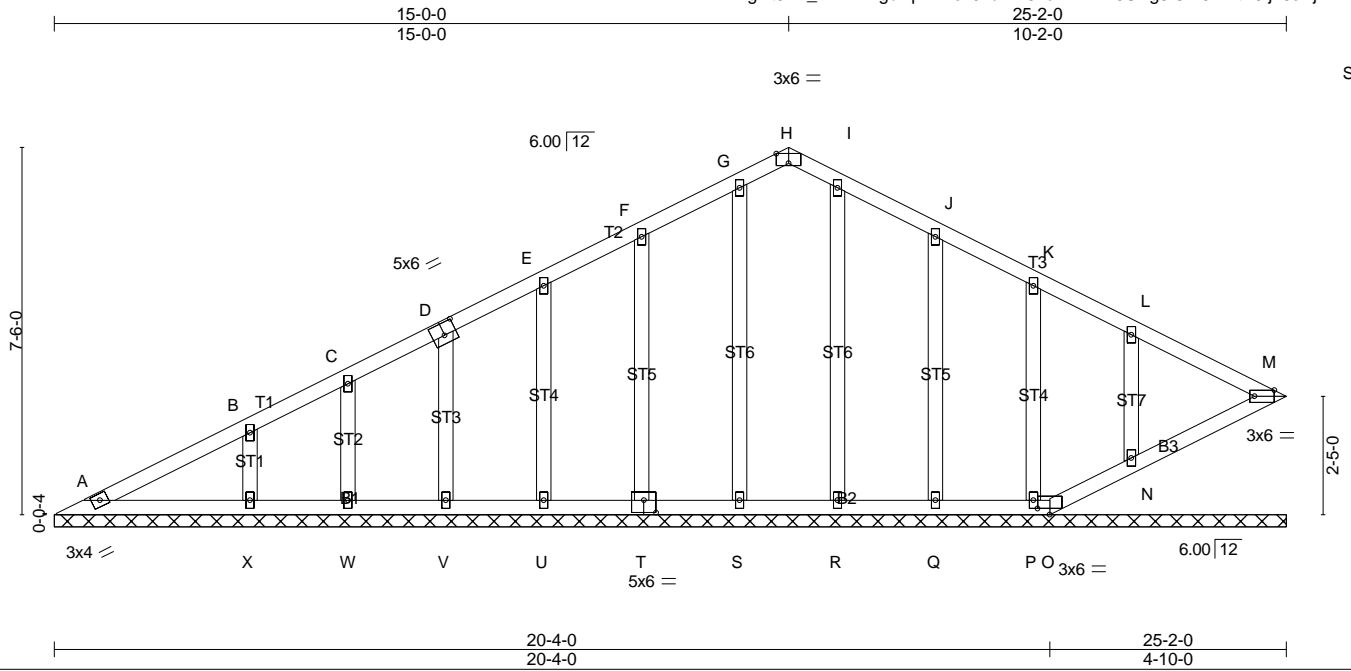


Plate Offsets (X,Y)-- [D:0-3-0,0-3-0], [H:0-3-0,Edge], [M:0-4-13,Edge], [O:0-3-0,0-1-8], [T:0-3-0,0-3-0]

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 0.16	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(TL)	0.01	M	n/a		
BCDL 10.0	Code IRC2009/TPI2007		(Matrix)						
								Weight: 143 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 25-2-0.
 (lb) - Max Horz A=327(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) O, S, R except T=-196(LC 8), U=-167(LC 8), V=-180(LC 8), W=-115(LC 8), X=-293(LC 8), Q=-206(LC 9), P=-146(LC 9), N=-248(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) M, S, T, U, V, W, R, Q, P, N, A except X=276(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD A-B=-395/35, G-H=-42/258, H-I=-42/258
 WEBS F-T=-122/251, B-X=-199/351, J-Q=-127/259, L-N=-170/301

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) O, S, R except (jt=lb) T=196, U=167, V=180, W=115, X=293, Q=206, P=146, N=248.
 - 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) M, N.
 - 10) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard