

SIMPSON
Strong-Tie

Truss Connectors

QTY	Label	Carried	Carrying	Symbol
2	HTU26	305, 306	309	
2	THUA26	JCB1/307, JC02/312	306, 301	

GENERAL NOTES

1. This placement plan has been prepared by a truss technician and is not an engineered drawing.
2. The responsibilities and duties of the truss designer and truss manufacture shall be according to TPI 1 as referenced by the building code unless otherwise defined by contract as agreed upon by the parties involved.
3. The wood components on this drawing are assumed to be used in a dry service, when moisture content <19%, and non toxic environmental applications unless noted otherwise. The metal plates and hangers are galvanized to meet or exceed G60.
4. Specific truss information can be located on the truss design drawing.
5. Locate all plumbing, HVAC, and floor-roof-ceiling openings prior to placing trusses. Trusses may be shifted a maximum of 3" for plumbing drops. DO NOT CUT, DRILL, OR NOTCH TRUSSES.
6. The building designer shall specify connections between two or more members when one or more of the members are not designed by the truss designer.
7. This truss placement plan and design drawings are the property of Builders FirstSource and may not be reproduced in part or in total under any circumstances unless written authorization is received from Builders FirstSource.
8. Some field framing may be required to achieve final appearance shown on construction documents.
9. Field framing, including valley rafters, installed over trusses shall have a knee brace from the rafter to the truss top chord at intervals of 48" on center or less. Stagger knee braces from adjacent rafters such that the load is distributed over multiple truss locations and not concentrated at one location or along one truss. Truss top chords shall be sheathed or have lateral bracing (purlins) spaced at intervals of 24" on center or less. Field framed supports or connections to bottom chords must be done at intervals of 48" on center or less. Bottom chord bracing shall not exceed the maximum shown on the truss design drawing.
10. This placement diagram is prepared assuming the support structure is structurally adequate for the building components provided. This includes, but is not limited to foundation design, structural member sizing, load transfer, bearing conditions, and the structures compliance to applicable building codes. Refer to TPI 1 as referenced by the building code for Building Designer responsibilities.
11. If piggyback trusses are included in this job, please refer to the Mitek piggyback connection detail provided in the truss info package, received upon truss delivery.

WARNING

Until the building is completely erected in accordance with the construction documents, the trusses are unstable and may present a safety hazard. Truss instability may increase with building width, height and length.

Buildings under construction are vulnerable to high winds and present a safety hazard. It is the responsibility of the contractor and truss installation crew to recognize adverse weather conditions and take prompt and appropriate action to protect life.

Refer to the Building Component Safety Information (BCSI) document produced by WTCA and TPI.

IMPORTANT

This diagram and any other truss placement or dimension diagrams provided by Builders FirstSource are for the sole purpose of aiding the builder in the erection of trusses supplied by Builders FirstSource and are not meant to replace the architectural in any way. Refer to architectural for ANY dimensions or details.

REVISIONS

1	X
2	X
3	X
4	X

Erickson Homes

DELA CRUZ

NC

ROOF LAYOUT

SUMTER TRUSS PLANT

P.O. BOX 1546

SUMTER, SC 29151

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FAX: (803) 773-4731



DRAWN BY

RB

DATE

OCT 2025

JOB NUMBER

4748501

SHEET NUMBER

1 OF 1

Job	Truss	Truss Type	Qty	Ply	DELACRUZ
4748501	A01	Roof Special Structural Gable	1	1	Job Reference (optional)

Builders FirstSource, Tim Plymel

Run: 8.82 S Dec 4 2024 Print: 8.820 S Dec 4 2024 MiTek Industries, Inc. Wed Oct 08 11:43:21

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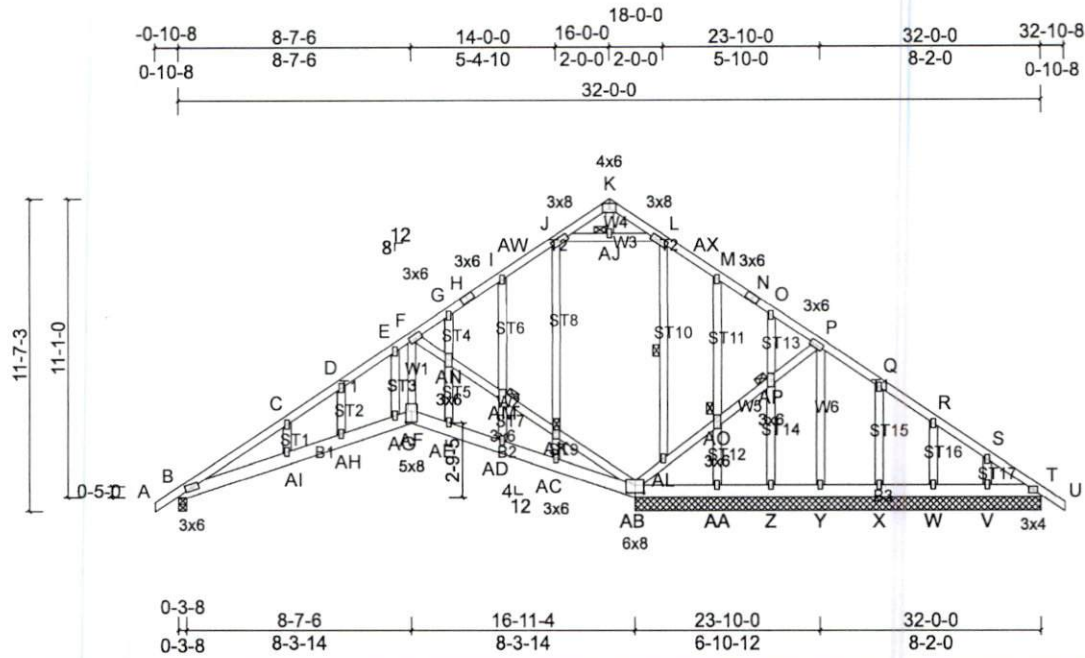


Plate Offsets (X, Y): [AB:0-4-0,0-3-8], [AF:0-4-12,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	0.23	AH-AI	>900	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.18	AH-AI	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.08	T	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 262 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt L-L
JOINTS 1 Brace at Jt(s): AJ, AK, AM, AO, AP

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

REACTIONS All bearings 15-0-12. except B=0-3-8

(lb) - Max Horiz B=500 (LC 11)

Max Uplift All uplift 100 (lb) or less at joint(s) Y except B=251 (LC 12), V=152 (LC 13), W=155 (LC 13), X=153 (LC 13), Z=118 (LC 13), AA=185 (LC 13), AB=695 (LC 12)
Max Grav All reactions 250 (lb) or less at joint (s) T, V, W, X, Y, Z except B=650 (LC 1), AA=254 (LC 20), AB=1310 (LC 19)

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

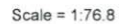
TOP CHORD B-C=-1191/289, C-D=-1191/408, D-E=-1215/510, E-F=-1054/488, F-G=-258/339, G-H=-236/368, H-I=-229/380, I-AW=-179/343, J-AW=-171/356, L-AX=-86/272, M-N=-54/261
BOT CHORD B-AI=-464/1339, AH-AI=-485/1397, AG-AH=-511/1456, AF-AG=-482/1393, AE-AF=-492/1428, AD-AE=-489/1418, AC-AD=-476/1381, AB-AC=-454/1292, AA-AB=-159/274, Z-AA=-159/274, Y-Z=-159/274, X-Y=-159/274, W-X=-159/274, V-W=-159/274, T-V=-159/274

WEBS F-AN=-1623/892, AM-AN=-1599/870, AK-AM=-1625/890, AB-AK=-1700/926, AB-AL=-352/241, AO-AP=-281/209, P-AP=-257/205, J-AK=-373/176, L-AL=-265/89, AA-AO=-298/171, J-AJ=-78/315, L-AJ=-78/315, F-AF=-603/1216

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-10-8 to 2-3-14, Interior (1) 2-3-14 to 16-0-0, Exterior(2R) 16-0-0 to 19-2-6, Interior (1) 19-2-6 to 32-10-8 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.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) B considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) Y except (jt=lb) B=251, AB=694, AA=185, Z=118, X=152, W=154, V=152.
- 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

Page: 1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.24	K-L	>999	360	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.46	K-L	>843	240	MT20	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.25	H	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.33	L-O	>999	240	Weight: 198 lb	FT = 20%

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf, BCDL=6.0psf, h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-3-14, Interior (1) 2-3-14 to 16-0-0, Exterior(2R) 16-0-0 to 19-2-6, Interior (1) 19-2-6 to 32-10-8 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) All plates are MT20 plates unless otherwise indicated.

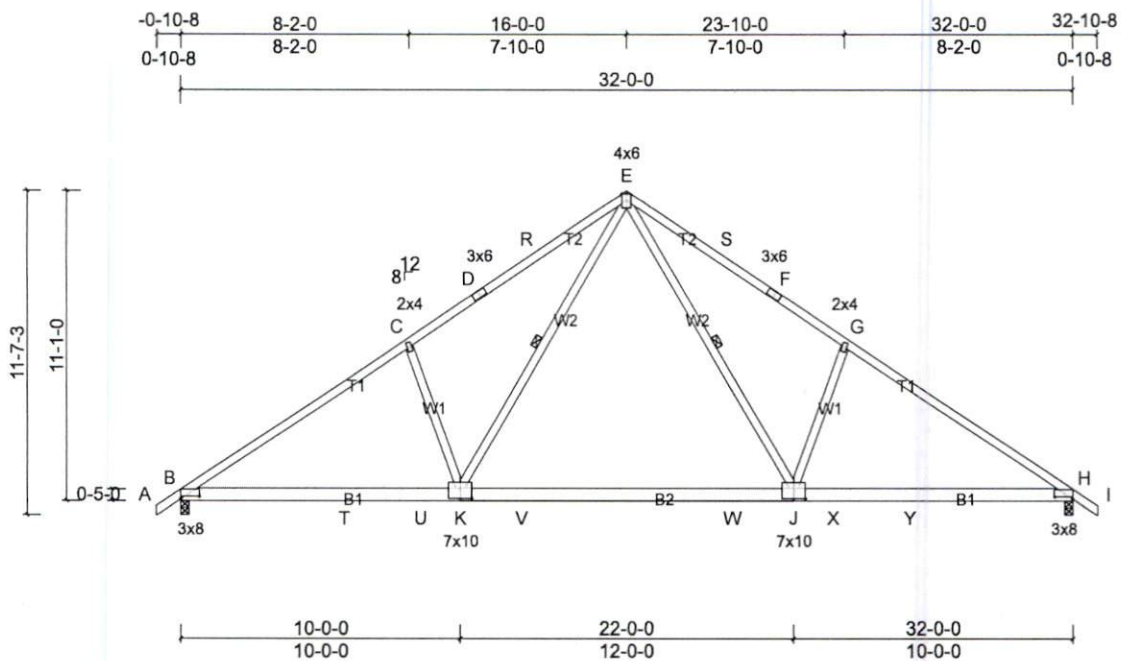
Job	Truss	Truss Type	Qty	Ply	DELACRUZ
4748501	A03	Common	5	1	Job Reference (optional)

Builders FirstSource, Tim Plymel

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Scale = 1:76.1

Plate Offsets (X, Y): [B:0-8-0,0-1-2], [H:0-8-0,0-1-2], [J:0-5-0,0-4-8], [K:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.19	J-K	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.31	J-K	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.04	H	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.16	K-N	>999	240	Weight: 187 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP DSS
WEBS 2x4 SP No.3

BRACING

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

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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP 2400F 2.0E or DSS crushing capacity of 660 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 595 lb uplift at joint B and 595 lb uplift at joint H.
- 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.

REACTIONS (lb/size) B=1333/0-3-8, (min. 0-1-10),
H=1333/0-3-8, (min. 0-1-10)
Max Horiz B=500 (LC 10)
Max Uplift B=595 (LC 12), H=595 (LC 13)
Max Grav B=1619 (LC 19), H=1619 (LC 20)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2253/786, C-D=-2189/953, D-R=-2066/977, E-R=-2059/1001, E-S=-2059/1001, F-S=-2067/978, F-G=-2189/954, G-H=-2253/786
BOT CHORD B-T=-750/2120, T-U=-750/2120, K-U=-750/2120, K-V=-248/1311, V-W=-248/1311, J-W=-248/1311, J-X=-448/1778, X-Y=-448/1778, H-Y=-448/1778
WEBS E-K=-593/1266, C-K=-577/646, E-J=-593/1266, G-J=-577/647

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-3-14, Interior (1) 2-3-14 to 16-0-0, Exterior(2R) 16-0-0 to 19-2-6, Interior (1) 19-2-6 to 32-10-8 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

LOAD CASE(S) Standard

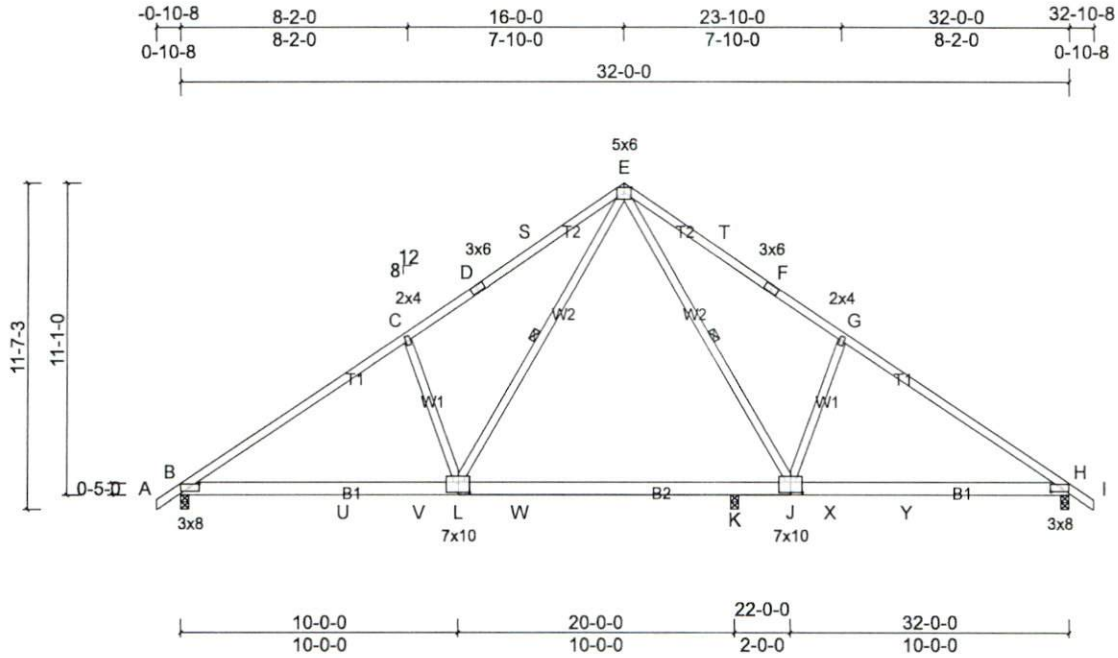
Job	Truss	Truss Type	Qty	Ply	DELACRUZ
4748501	A04	Common	3	1	Job Reference (optional)

Builders FirstSource, Tim Plymel

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Scale = 1:76.1

Plate Offsets (X, Y): [B:0-4-8,0-1-8], [H:0-4-8,0-1-8], [J:0-5-0,0-4-8], [L:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.15	J-R	>954	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.28	J-R	>516	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.02	H	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.24	J-R	>598	240	Weight: 187 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP DSS
WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied.
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=1170/0-3-8, (min. 0-1-8),
H=1061/0-3-8, (min. 0-1-8),
K=434/0-3-8, (min. 0-1-8)
Max Horiz B=500 (LC 10)
Max Uplift B=559 (LC 12), H=537 (LC 13),
K=96 (LC 12)
Max Grav B=1316 (LC 19), H=1106 (LC 2),
K=662 (LC 19)

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

TOP CHORD B-C=-1698/918, C-D=-1613/1043, D-S=-1489/1066, E-S=-1483/1090, E-T=-1126/1340, F-T=-1136/1316, F-G=-1256/1293, G-H=-1359/1163
BOT CHORD B-U=-692/1642, U-V=-692/1642, L-V=-692/1642, L-W=-229/882, K-W=-229/882, J-K=-229/882, J-X=-773/1070, X-Y=-773/1070, H-Y=-773/1070
WEBS E-L=-575/1160, C-L=-584/648, E-J=-781/418, G-J=-583/649

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-3-14, Interior (1) 2-3-14 to 16-0-0, Exterior(2R) 16-0-0 to 19-2-6, Interior (1) 19-2-6 to 32-10-8 zone; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP 2400F 2.0E or DSS crushing capacity of 660 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 559 lb uplift at joint B, 537 lb uplift at joint H and 96 lb uplift at joint K.
- 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 4748501	Truss A05	Truss Type Common	Qty 8	Ply 1	DELACRUZ Job Reference (optional)
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Builders FirstSource, Tim Plymel

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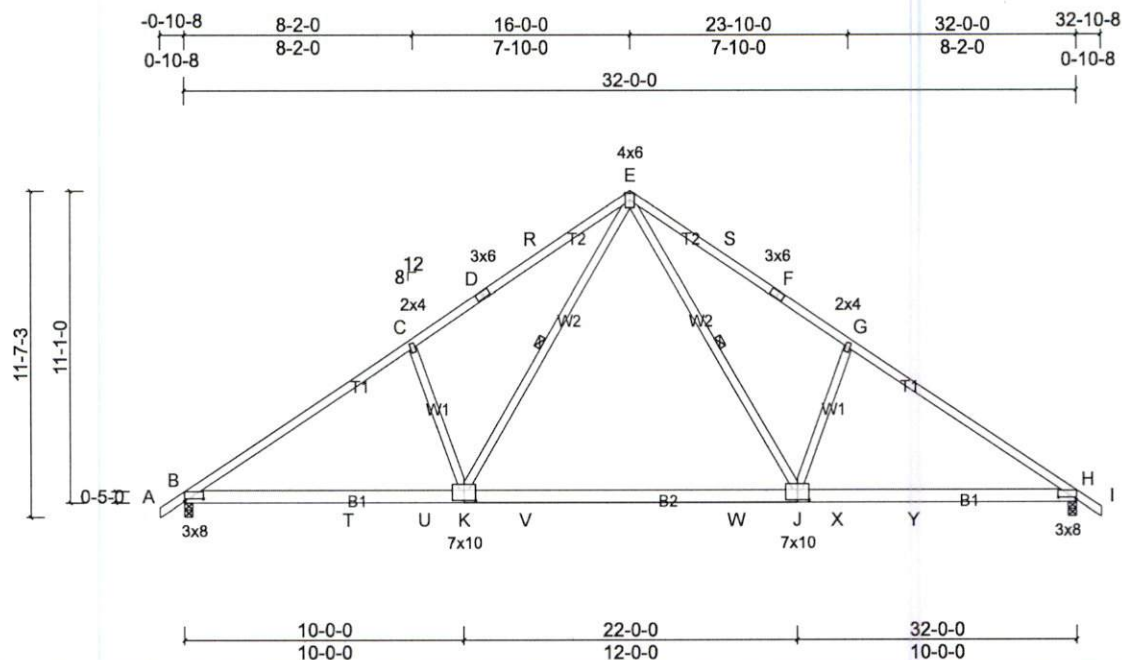


Plate Offsets (X, Y): [B:0-8-0,0-1-2], [H:0-8-0,0-1-2], [J:0-5-0,0-4-8], [K:0-5-0,0-4-8]

Loading	(psf)	Spacing		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	2-0-0	TC	0.77	Vert(LL)	-0.19	J-K	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.31	J-K	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.04	H	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.16	K-N	>999	240	Weight: 187 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP DSS
WEBS 2x4 SP No.3

BRACING

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

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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP 2400F 2.0E or DSS crushing capacity of 660 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 595 lb uplift at joint B and 595 lb uplift at joint H.
- 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.

REACTIONS (lb/size) B=1333/0-3-8, (min. 0-1-10), H=1333/0-3-8, (min. 0-1-10)
Max Horiz B=500 (LC 11)
Max Uplift B=-595 (LC 12), H=-595 (LC 13)
Max Grav B=1619 (LC 19), H=1619 (LC 20)

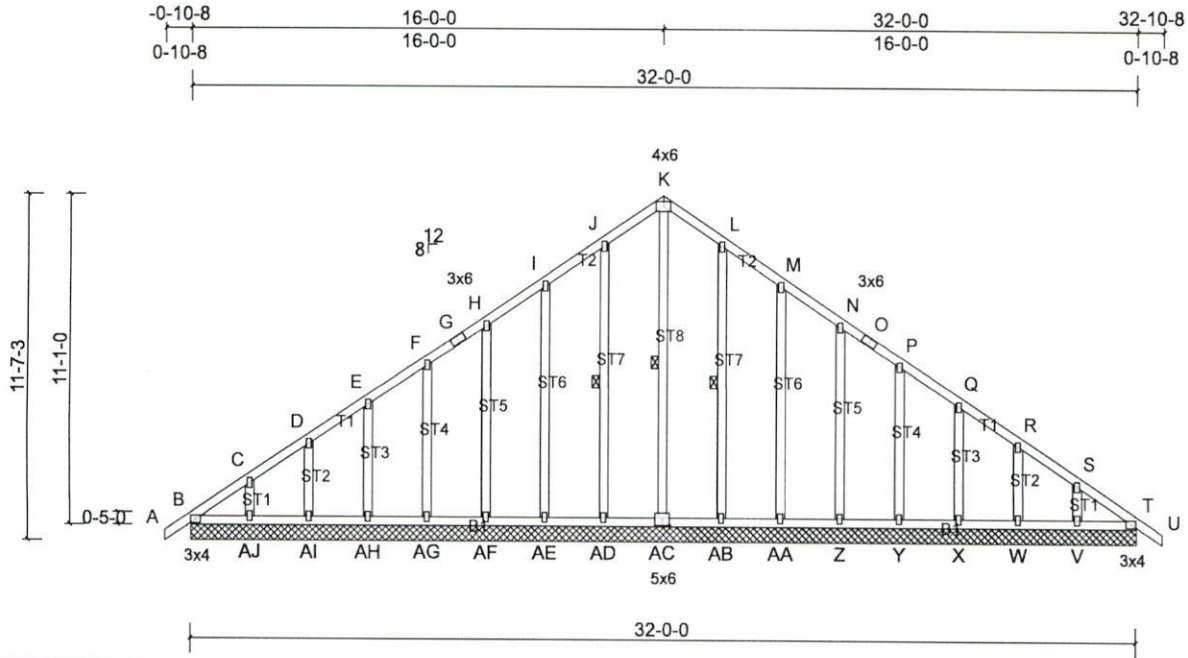
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2253/786, C-D=-2189/953, D-R=-2066/977, E-R=-2059/1001, E-S=-2059/1001, F-S=-2067/978, F-G=-2189/954, G-H=-2253/786
BOT CHORD B-T=-750/2120, T-U=-750/2120, K-U=-750/2120, K-V=-248/1311, V-W=-248/1311, J-W=-248/1311, J-X=-448/1778, X-Y=-448/1778, H-Y=-448/1778
WEBS E-K=-593/1266, C-K=-577/646, E-J=-593/1266, G-J=-577/647

LOAD CASE(S) Standard

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-3-14, Interior (1) 2-3-14 to 16-0-0, Exterior(2R) 16-0-0 to 19-2-6, Interior (1) 19-2-6 to 32-10-8 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Job	Truss	Truss Type	Qty	Ply	DELACRUZ
4748501	A06	Common Supported Gable	1	1	Job Reference (optional)



Scale = 1:71.2

32-0-0

Plate Offsets (X, Y): [AC:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.02	T	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS								
											Weight: 232 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.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt K-AC, J-AD, L-AB

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

REACTIONS All bearings 32-0-0.
(lb) - Max Horiz B=500 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s)
T, AC except B=-155 (LC 8),
V=-178 (LC 13), W=-147 (LC 13),
X=-155 (LC 13), Y=-153 (LC 13),
Z=-151 (LC 13), AA=-165 (LC 13),
AB=-127 (LC 13), AD=-135 (LC 12),
AE=-162 (LC 12), AF=-152 (LC 12),
AG=-153 (LC 12), AH=-155 (LC 12),
AI=-145 (LC 12), AJ=-186 (LC 12)
Max Grav All reactions 250 (lb) or less at joint (s)
B, T, V, W, X, Y, Z, AA, AB, AD, AE, AF, AG, AH, AI, AJ except AC=388 (LC 13)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-478/378, C-D=-370/333, D-E=-308/294, E-F=-268/261, F-G=-237/262, G-H=-226/269, H-I=-206/331, I-J=-228/400, J-K=-279/462, K-L=-279/462, L-M=-228/374, M-N=-163/262, S-T=-356/197
BOT CHORD B-AJ=-178/373, AI-AJ=-178/373, AH-AI=-178/373, AG-AH=-178/373, AF-AG=-178/373, AE-AF=-178/373, AD-AE=-178/373, AC-AD=-178/373, AB-AC=-178/373, AA-AB=-178/373, Z-AA=-178/373, Y-Z=-178/373, X-Y=-178/373, W-X=-178/373, V-W=-178/373, T-V=-178/373
WEBS K-AC=-369/167

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-3-14, Exterior(2N) 2-3-14 to 16-0-0, Corner(3R) 16-0-0 to 19-2-6, Exterior (2N) 19-2-6 to 32-10-8 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.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) AC, T, T except (jt=lb) B=154, AD=135, AE=161, AF=151, AG=152, AH=155, AI=144, AJ=186, AB=126, AA=165, Z=150, Y=152, X=154, W=146, V=178, B=154.
- 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	DELACRUZ
4748501	J01	Half Hip Girder	1	1	Job Reference (optional)

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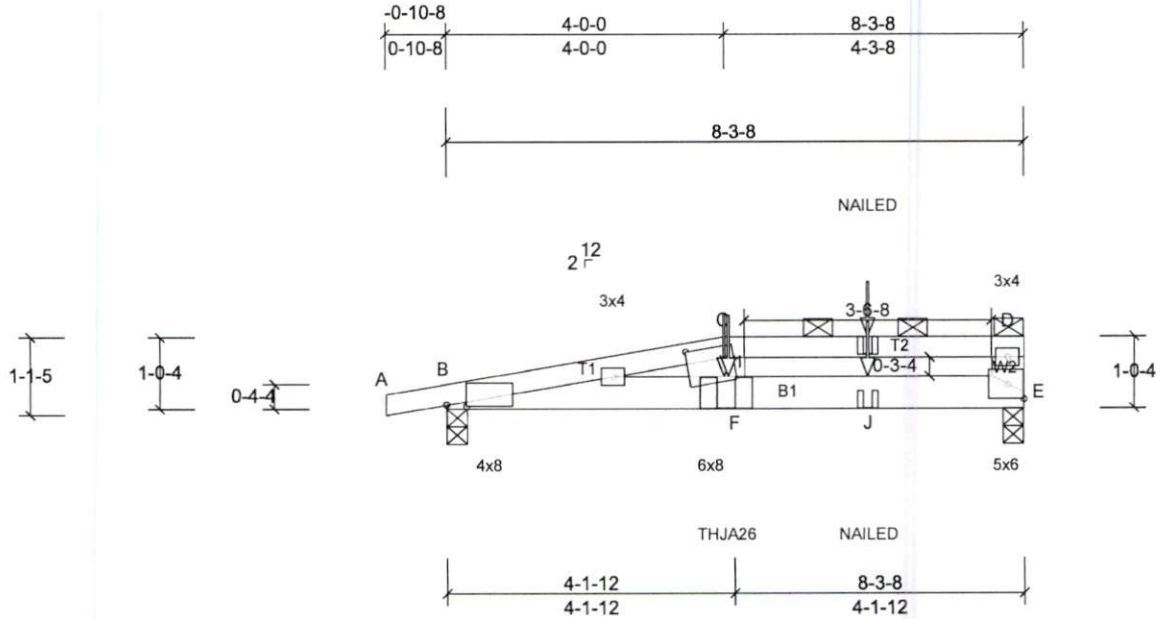


Plate Offsets (X, Y): [B:0-3-6,0-0-4], [F:0-6-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.09	F-H	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.17	F-H	>553	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.02	Horz(CT)	-0.01	E	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	0.18	F-H	>541	240	Weight: 35 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2 *Except* W2:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-3-1 oc purlins, except end verticals, and 2-0-0 oc purlins (5-3-12 max.): C-D.
BOT CHORD Rigid ceiling directly applied or 7-3-10 oc bracing.

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

REACTIONS (lb/size) B=545/0-3-8, (min. 0-1-8), E=531/0-3-8, (min. 0-1-8)
Max Horiz B=61 (LC 25)
Max Uplift B=-468 (LC 4), E=-407 (LC 4)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1099/785, C-I=-1060/779, D-I=-1060/779
BOT CHORD B-F=-790/1061, F-J=-779/1060, E-J=-779/1060

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; end vertical left exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 468 lb uplift at joint B and 407 lb uplift at joint E.

- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use Simpson Strong-Tie THJA26 (THJA26 on 1 ply, Right Hand Hip) or equivalent at 4-0-6 from the left end to connect truss(es) J12 (1 ply 2x4 SP), JC02 (1 ply 2x4 SP) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: A-C=-60, C-D=-60, B-E=-20
Concentrated Loads (lb)
Vert: F=-307, I=-36, J=-36

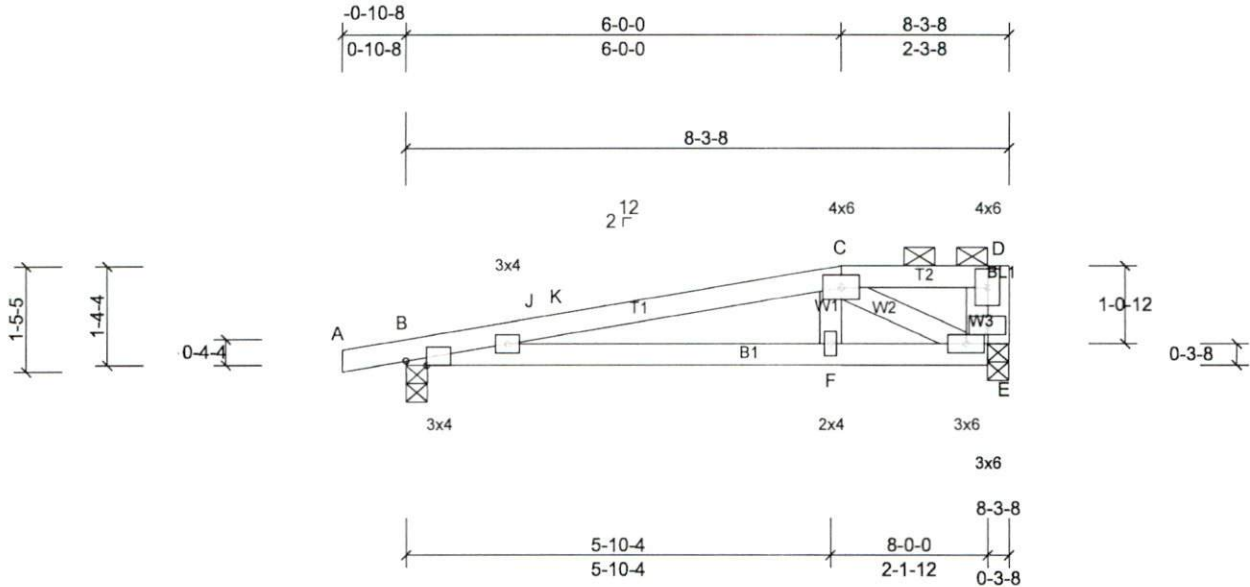
Job	Truss	Truss Type	Qty	Ply	DELACRUZ
4748501	J02	Half Hip	1	1	Job Reference (optional)

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Scale = 1:24.4

Plate Offsets (X, Y): [B:0-3-6,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.04	F-I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.09	F-I	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.26	Horz(CT)	-0.01	E	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.09	F-I	>999	240	Weight: 32 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* W3:2x4 SP No.2
OTHERS	2x4 SP No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 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.

- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) E considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 251 lb uplift at joint B and 191 lb uplift at joint E.
- 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.

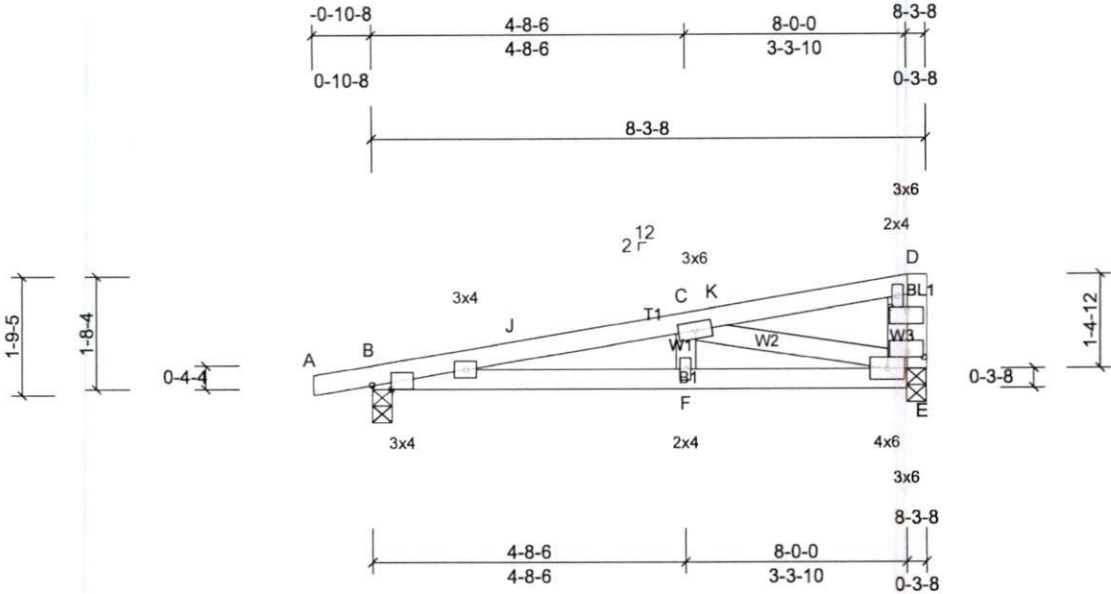
REACTIONS	(lb/size)	B=375/0-3-8, (min. 0-1-8), E=326/0-3-8, (min. 0-1-8)
	Max Horiz	B=83 (LC 8)
	Max Uplift	B=-251 (LC 8), E=-191 (LC 8)
	Max Grav	B=375 (LC 25), E=326 (LC 1)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD		B-J=-647/705, J-K=-646/706, C-K=-642/713
BOT CHORD		B-F=-752/653, E-F=-745/631
WEBS		C-E=-726/862

LOAD CASE(S) Standard

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-10-8 to 2-1-8, Interior (1) 2-1-8 to 6-0-0, Exterior(2E) 6-0-0 to 8-1-12 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

Job	Truss	Truss Type	Qty	Ply	DELACRUZ
4748501	J03	Half Hip	1	1	Job Reference (optional)

Builders FirstSource, Tim Plymel



Scale = 1:24.2

Plate Offsets (X, Y): [B:0-3-6,Edge], [D:0-3-0,0-0-12], [E:0-3-0,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.03	F-I	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.06	F-I	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	E	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.05	F-I	>999	240	Weight: 34 lb	FT = 20%

LUMBER		
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2	
WEBS	2x4 SP No.3 *Except* W3:2x4 SP No.2	
OTHERS	2x4 SP No.2	
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.	

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 247 lb uplift at joint B and 197 lb uplift at joint E.
- 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

REACTIONS (lb/size)		B=375/0-3-8, (min. 0-1-8), E=326/0-3-8, (min. 0-1-8)
Max Horiz		B=108 (LC 8)
Max Uplift		B=-247 (LC 8), E=-197 (LC 12)
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	B-J=-823/626, C-J=-819/632	
BOT CHORD	B-F=-707/847, E-F=-707/847	
WEBS	C-E=-828/685	

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 8-1-12 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 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - 6) Bearing at joint(s) E considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

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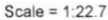


Plate Offsets (X, Y): [B:0-3-6,Edge], [E:0-3-0,0-1-0]

LUMBER

- 6) Bearing at joint(s) E considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 379 lb uplift at joint B and 327 lb uplift at joint E.
- 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.

BRACING

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

LOAD CASE(S) Standard

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

TOP CHORD B-C=-823/1391
BOT CHORD B-F=-1475/804, E-F=-1475/804
WEBS C-E=-784/1439

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 8-1-12 zone; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

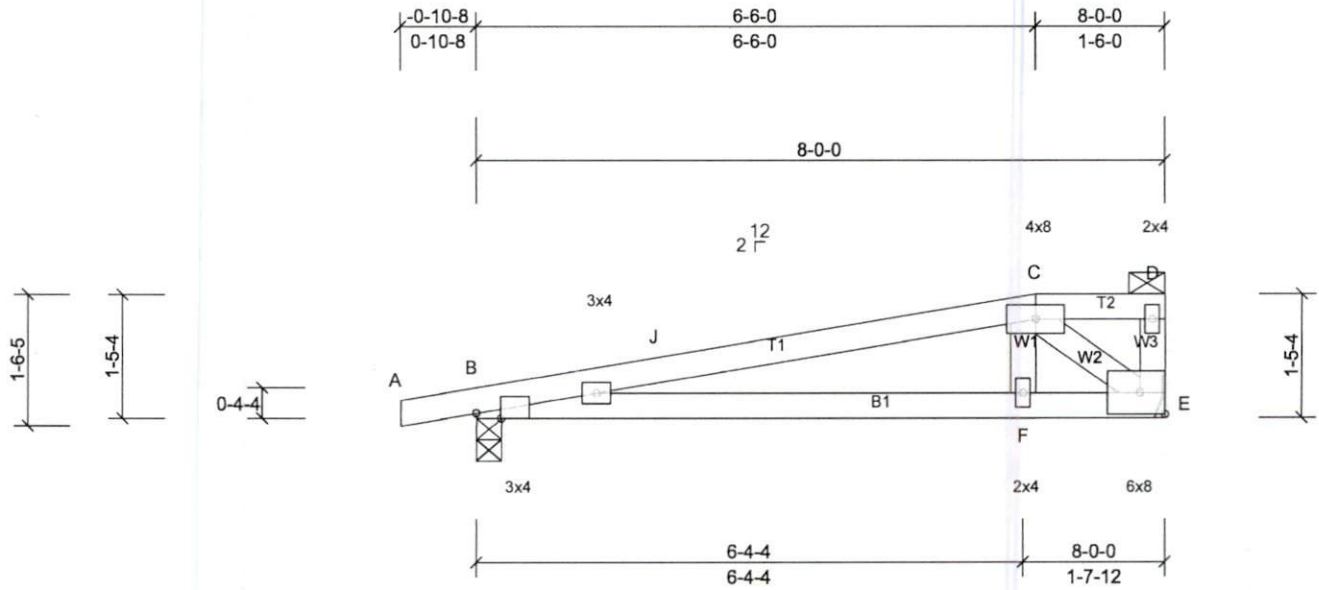
Job	Truss	Truss Type	Qty	Ply	DELACRUZ
4748501	J05	Half Hip	1	1	Job Reference (optional)

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Scale = 1:23.6

Plate Offsets (X, Y): [B:0-3-6,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	0.16	F-I	>604	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.10	F-I	>924	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.40	Horz(CT)	-0.01	E	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 30 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 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.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 377 lb uplift at joint B and 310 lb uplift at joint E.
- 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

REACTIONS (lb/size) B=370/0-3-8, (min. 0-1-8), E=311/
Mechanical, (min. 0-1-8)
Max Horiz B=89 (LC 8)
Max Uplift B=377 (LC 8), E=310 (LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250
(lb) or less except when shown.
TOP CHORD B-J=-552/962, C-J=-538/971
BOT CHORD B-F=-1017/530, E-F=-968/505
WEBS C-F=-392/257, C-E=-693/1331

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 6-6-0, Exterior(2E) 6-6-0 to 7-10-4 zone; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint B SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.

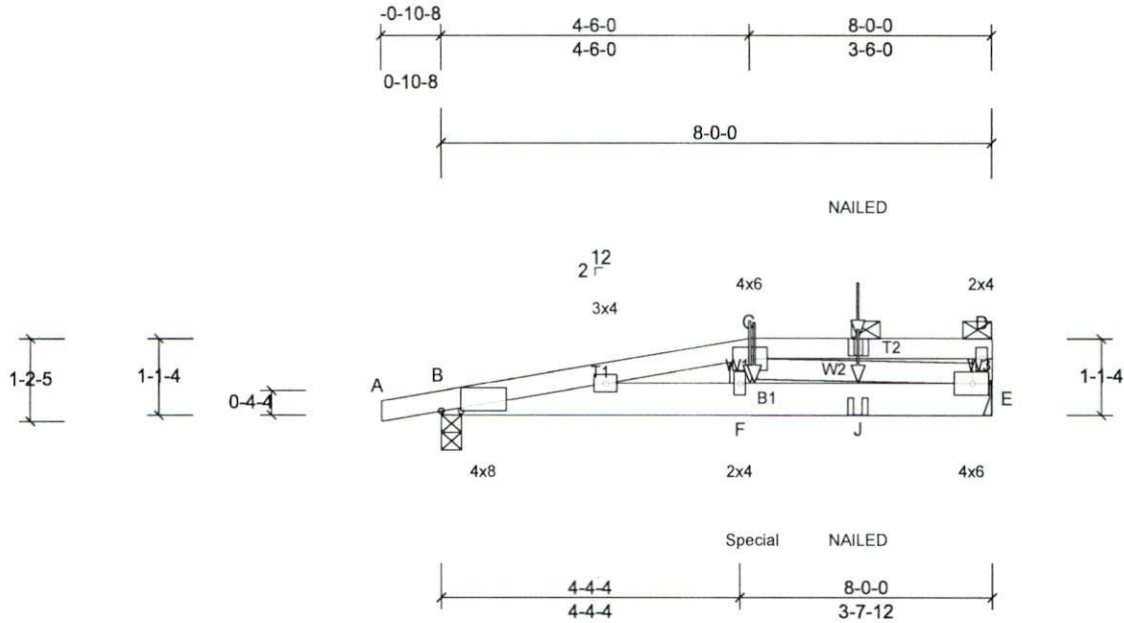
Job	Truss	Truss Type	Qty	Ply	DELACRUZ
4748501	J06	Half Hip Girder	1	1	Job Reference (optional)

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Scale = 1:25.1

Plate Offsets (X, Y): [B:0-3-6,0-0-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.05	F-H	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.09	F-H	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.31	Horz(CT)	-0.02	E	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	0.12	F-H	>820	240	Weight: 38 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-4-13 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): C-D.
BOT CHORD Rigid ceiling directly applied or 5-7-7 oc bracing.

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

REACTIONS

(lb/size) B=550/0-3-8, (min. 0-1-8), E=580/
Mechanical, (min. 0-1-8)
Max Horiz B=66 (LC 25)
Max Uplift B=-545 (LC 4), E=-526 (LC 4)

FORCES

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

TOP CHORD B-C=-1667/1541
BOT CHORD B-F=-1534/1627, F-J=-1465/1554, E-J=-1465/1554
WEBS C-F=-353/370, C-E=-1345/1281

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf, BCDL=6.0psf, h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; end vertical left exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint B SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 526 lb uplift at joint E and 545 lb uplift at joint B.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 357 lb down and 437 lb up at 4-6-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: A-C=-60, C-D=-60, B-E=-20
Concentrated Loads (lb)
Vert: F=-357, I=-51, J=-42

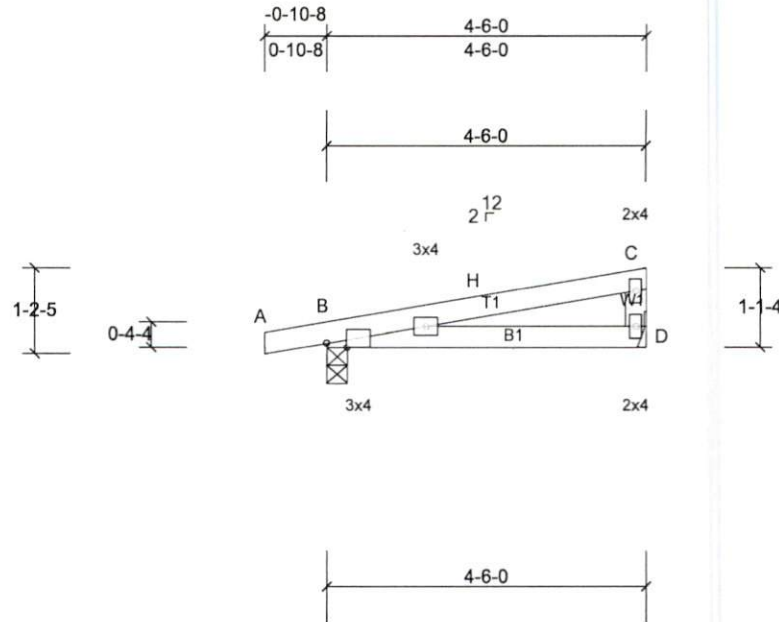
Job	Truss	Truss Type	Qty	Ply	DELACRUZ
4748501	J07	Jack-Open	1	1	Job Reference (optional)

Builders FirstSource, Tim Plymel

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Scale = 1:23.4

Plate Offsets (X, Y): [B:0-3-6,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	0.06	D-G	>829	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.03	D-G	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	B	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 16 lb	FT = 20%

LUMBER

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

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

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) B=232/0-3-8, (min. 0-1-8), D=169/Mechanical, (min. 0-1-8)

Max Horiz B=64 (LC 8)

Max Uplift B=-243 (LC 8), D=-169 (LC 8)

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

TOP CHORD B-H=-143/310

BOT CHORD B-D=-345/131

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 4-4-4 zone; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint B SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 243 lb uplift at joint B and 169 lb uplift at joint D.

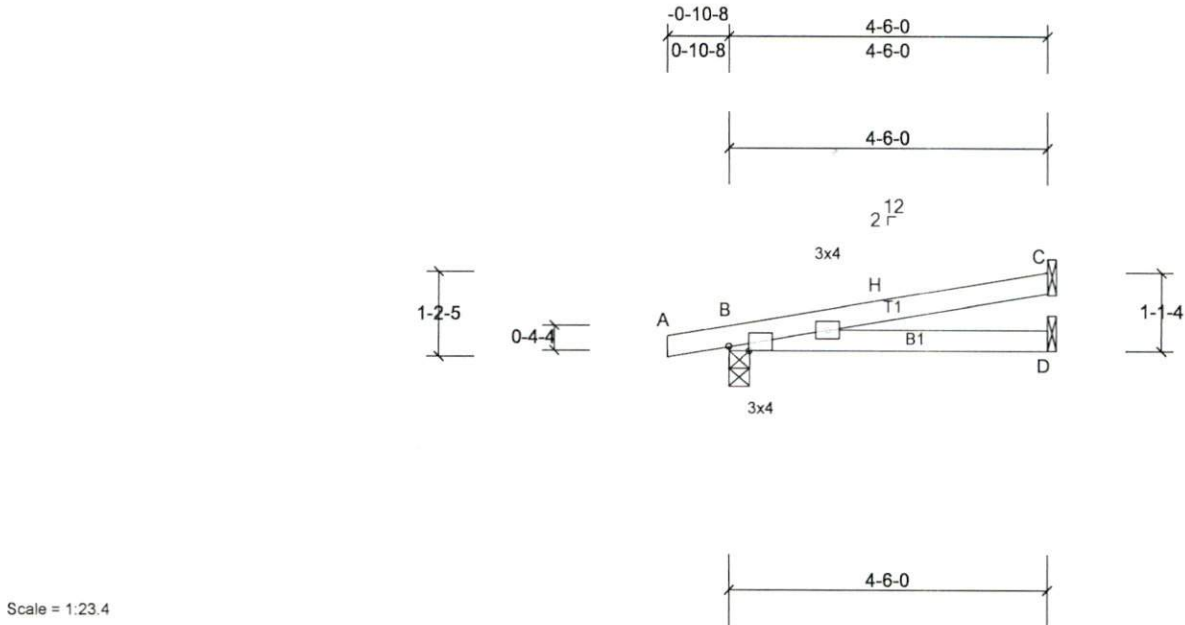


Plate Offsets (X, Y): [B:0-3-6,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.02	D-G	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.04	D-G	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	B	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.05	D-G	>999	240	Weight: 15 lb	FT = 20%

LUMBER

TOP CHORD 2x4 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)

B=235/0-3-8, (min. 0-1-8), C=111/Mechanical, (min. 0-1-8), D=62/Mechanical, (min. 0-1-8)

Max Horiz B=65 (LC 8)

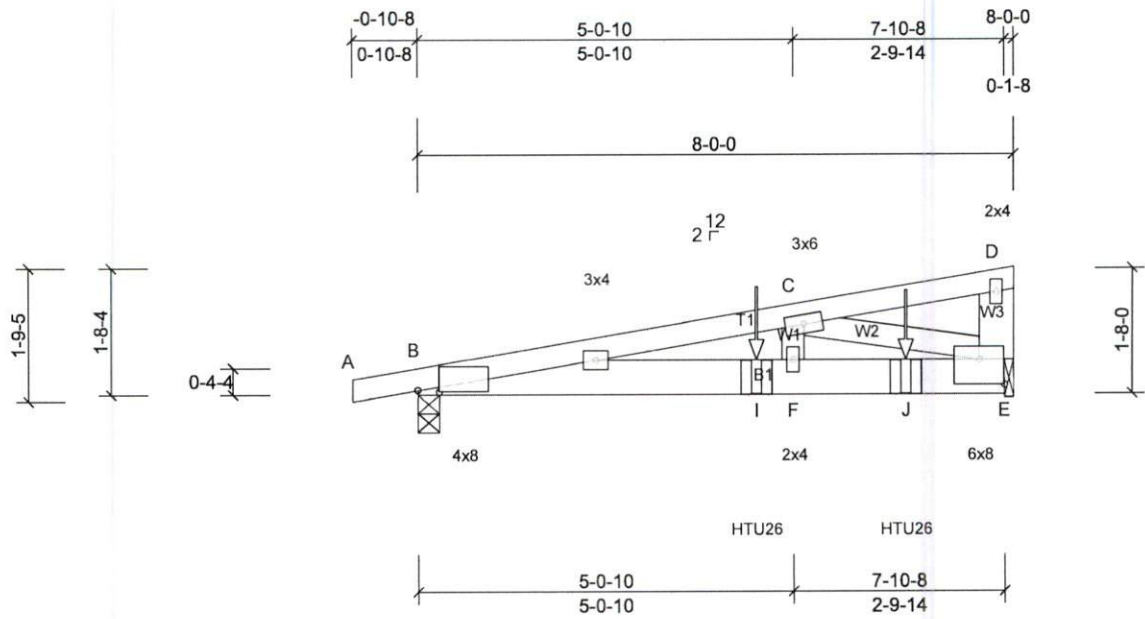
Max Uplift B=-173 (LC 8), C=-93 (LC 12), D=-9 (LC 12)

Max Grav B=235 (LC 1), C=111 (LC 1), D=76 (LC 3)

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

- NOTES
- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 4-5-4 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Bearings are assumed to be: , Joint B SP No.2 crushing capacity of 565 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint C, 173 lb uplift at joint B and 9 lb uplift at joint D.
- 7) 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.

Job	Truss	Truss Type	Qty	Ply	DELACRUZ
4748501	J09	Monopitch Girder	1	1	Job Reference (optional)



Scale = 1:23.6

Plate Offsets (X, Y): [B:0-3-6, 0-0-4], [E:Edge, 0-4-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.06	F-H	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.12	F-H	>781	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.36	Horz(CT)	-0.02	E	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-MS		Wind(LL)	0.15	F-H	>639	240	Weight: 38 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2 *Except* W3:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-9-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-11-4 oc bracing.

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

REACTIONS (lb/size) B=655/0-3-8, (min. 0-1-8), E=873/0-1-8, (min. 0-1-8)
Max Horiz B=104 (LC 4)
Max Uplift B=-637 (LC 4), E=-841 (LC 4)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2089/1919
BOT CHORD B-I=-1942/2042, F-I=-1942/2042, F-J=-1942/2042, E-J=-1942/2042
WEBS C-F=-705/749, C-E=-2119/2015

- NOTES**
- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; end vertical left exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 4) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 - 5) Bearing at joint(s) E considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) E.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 637 lb uplift at joint B and 841 lb uplift at joint E.
- 8) Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 4-6-12 from the left end to 6-6-12 to connect truss(es) J06 (1 ply 2x6 SP), J05 (1 ply 2x4 SP) to back face of bottom chord.
- 9) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: A-D=-60, B-E=-20
Concentrated Loads (lb)
Vert: I=-560, J=-291

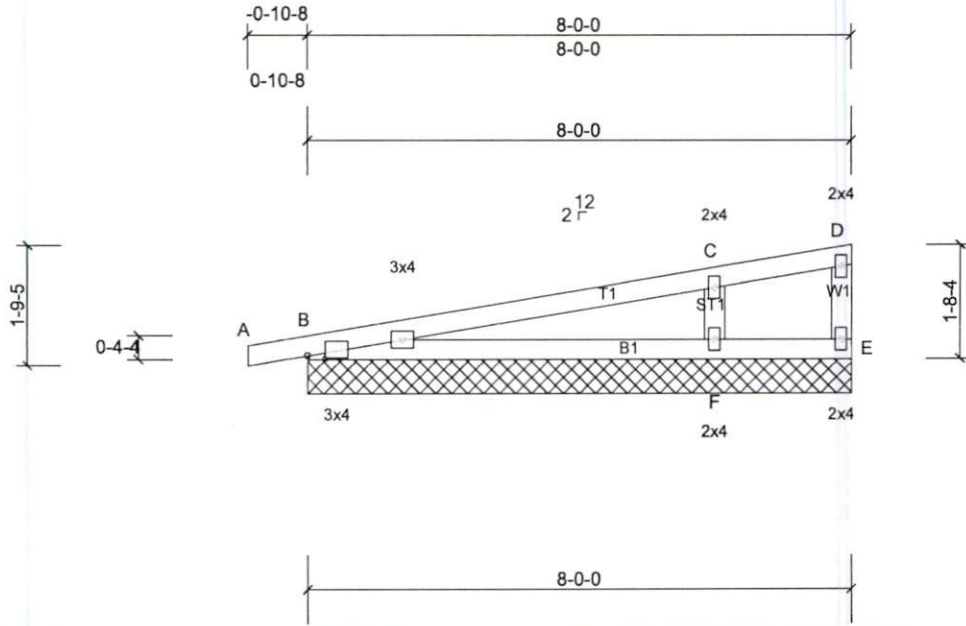
Job 4748501	Truss J11	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	DELACRUZ Job Reference (optional)
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Scale = 1:25.5

Plate Offsets (X, Y): [B:0-3-2,0-0-7]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.00	B	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 28 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, 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.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00" tall by 2'-00"-00" wide will fit between the bottom chord and any other members.
- 8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 176 lb uplift at joint B, 274 lb uplift at joint F and 176 lb uplift at joint B.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

REACTIONS (lb/size) B=266/8-0-0, (min. 0-1-8),
E=18/8-0-0, (min. 0-1-8),
F=477/8-0-0, (min. 0-1-8)
Max Horiz B=104 (LC 8)
Max Uplift B=-176 (LC 8), F=-274 (LC 12)
Max Grav B=266 (LC 25), E=96 (LC 3),
F=477 (LC 1)

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

BOT CHORD B-F=-278/226
WEBS C-F=-405/759

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 7-10-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 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.

Job	Truss	Truss Type	Qty	Ply	DELACRUZ
4748501	J12	Jack-Open	1	1	Job Reference (optional)

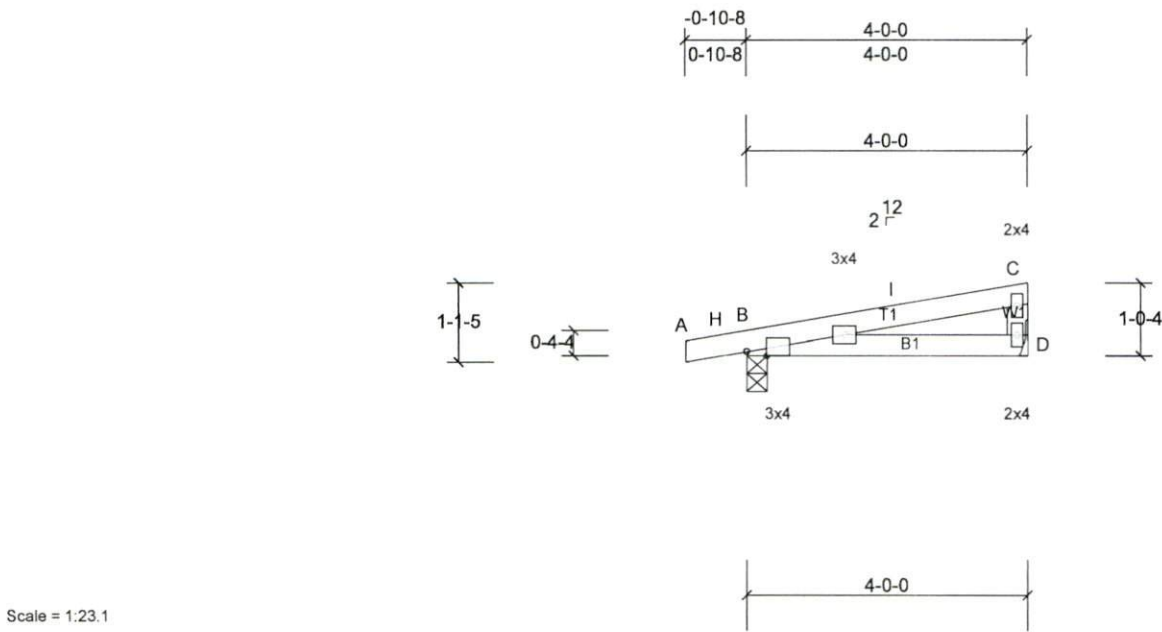


Plate Offsets (X, Y): [B:0-3-6,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.01	D-G	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.02	D-G	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	B	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.03	D-G	>999	240	Weight: 14 lb	FT = 20%

LUMBER **LOAD CASE(S)** Standard
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, 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) B=213/0-3-8, (min. 0-1-8), D=148/
Mechanical, (min. 0-1-8)
Max Horiz B=58 (LC 8)
Max Uplift B=-162 (LC 8), D=-87 (LC 12)

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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 3-10-4 zone; end vertical left 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 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Bearings are assumed to be: Joint B SP No.2 crushing capacity of 565 psi.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 162 lb uplift at joint B and 87 lb uplift at joint D.
 - 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.

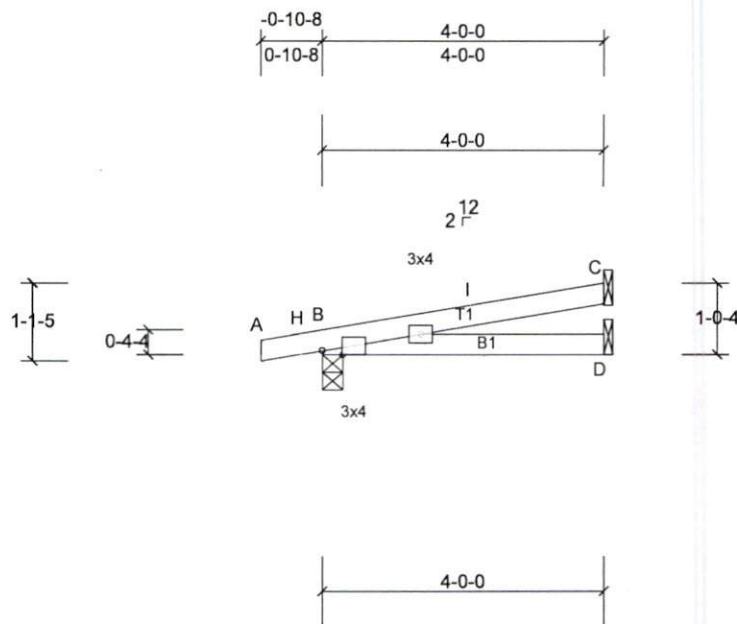
Job	Truss	Truss Type	Qty	Ply	DELACRUZ
4748501	J13	Jack-Open	1	1	Job Reference (optional)

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Scale = 1:23.1

Plate Offsets (X, Y): [B:0-3-6,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.01	D-G	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.02	D-G	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	C	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.03	D-G	>999	240	Weight: 13 lb	FT = 20%

LUMBER

TOP CHORD 2x4 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) B=216/0-3-8, (min. 0-1-8), C=96/Mechanical, (min. 0-1-8), D=56/Mechanical, (min. 0-1-8)

Max Horiz B=59 (LC 8)

Max Uplift B=-163 (LC 8), C=-80 (LC 12), D=-9 (LC 12)

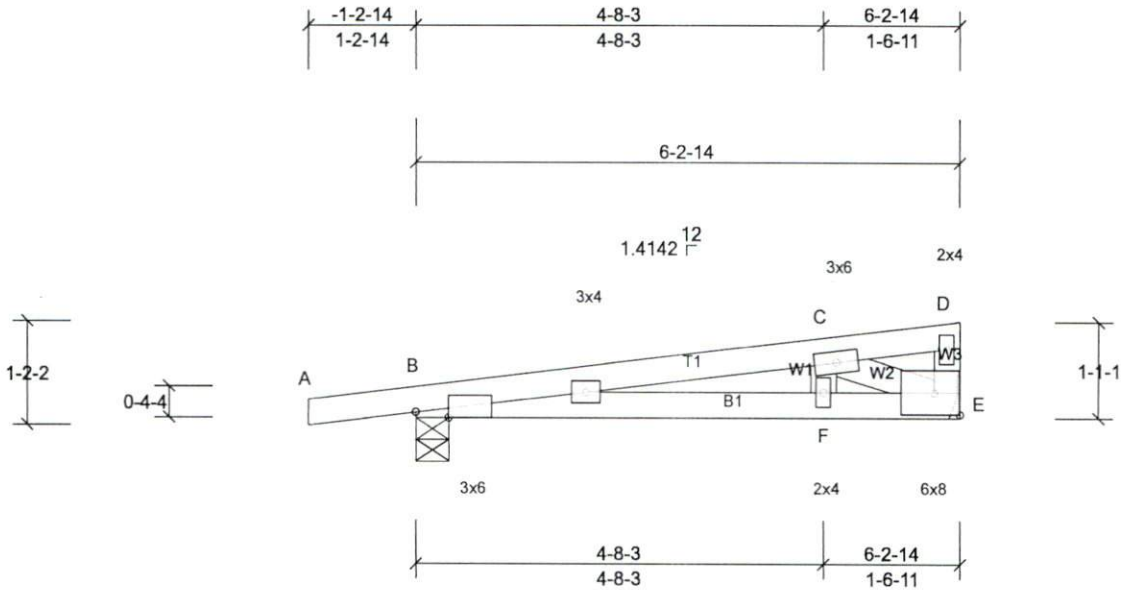
Max Grav B=216 (LC 1), C=96 (LC 1), D=67 (LC 3)

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

NOTES

- Wind: ASCE 7-16; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 3-11-4 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 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'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint B SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint C, 163 lb uplift at joint B and 9 lb uplift at joint D.
- 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.

Job	Truss	Truss Type	Qty	Ply	DELACRUZ
4748501	JC01	Jack-Partial	1	1	Job Reference (optional)



Scale = 1:20.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	0.08	F-I	>950	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.04	F-I	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	-0.01	E	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS							Weight: 24 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* W3:2x4 SP No.2

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.

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

LOAD CASE(S) Standard

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

REACTIONS (lb/size) B=326/0-4-9, (min. 0-1-8), E=236/
Mechanical, (min. 0-1-8)
Max Horiz B=63 (LC 8)
Max Uplift B=-345 (LC 8), E=-232 (LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250
(lb) or less except when shown.
TOP CHORD B-C=-540/1377
BOT CHORD B-F=-1437/533, E-F=-1437/533
WEBS C-E=-581/1567

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 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
 - 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'-06"-00" tall by 2'-00"-00" wide will fit between the bottom chord and any other members.
 - Bearings are assumed to be: Joint B SP No.2 crushing capacity of 565 psi.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 345 lb uplift at joint B and 232 lb uplift at joint E.

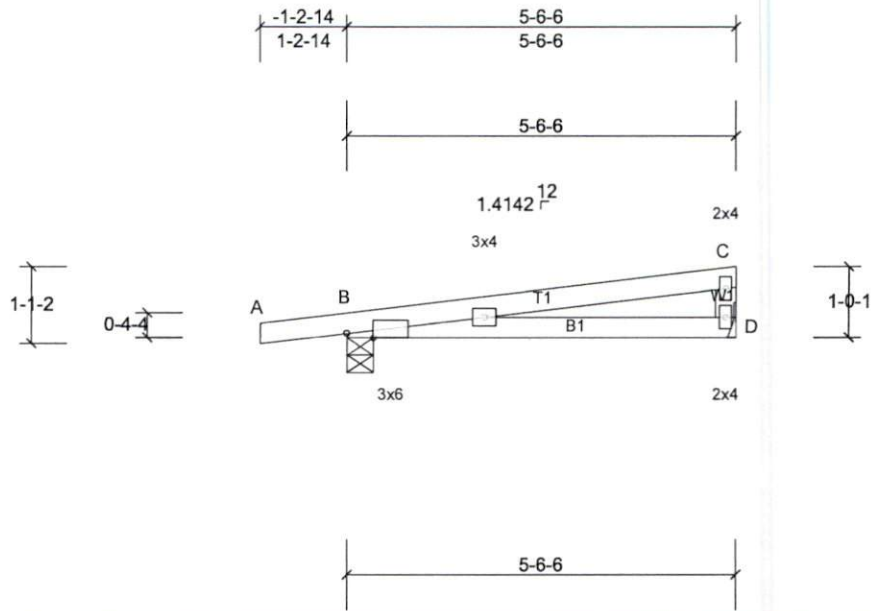
Job 4748501	Truss JC02	Truss Type Jack-Open	Qty 1	Ply 1	DELACRUZ Job Reference (optional)
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Scale = 1:23.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.04	D-G	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.07	D-G	>873	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	B	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.12	D-G	>557	240	Weight: 19 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, 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.

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

REACTIONS (lb/size) B=298/0-4-9, (min. 0-1-8), D=207/Mechanical, (min. 0-1-8)

Max Horiz B=58 (LC 8)

Max Uplift B=-230 (LC 8), D=-119 (LC 12)

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

TOP CHORD B-C=-229/383, C-D=-132/336

BOT CHORD B-D=-424/230

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust)
Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; end vertical left 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 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'-06"-00" tall by 2'-00"-00" wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint B SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 230 lb uplift at joint B and 119 lb uplift at joint D.