Florida Cover Letter

Job Name: De la Concepcion-8965

Site Adress: 8965 SW 63rd Court
Pinecrest Fl 33156

JOB # J2602880

STRUCTURE J2602880A

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions)

Roof Loading			
TC Live:	TC Dead:	BC Live:	BC Dead:
30	15	0	10

Building Code	Wind Design Method	Exp Cat	Occ Cat	Velocity	TC Dead	BC Dead
FBC2020/TPI2014	MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16	C	II	175	5	5

This package includes 48 individual, dated Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Date	Truss	Seal #	No.	Date	Truss	Seal #
1	3/10/2026	CJ5	RT00105443	29	3/10/2026	J3	RT00105471
2	3/10/2026	CJ5A	RT00105444	30	3/10/2026	J3A	RT00105472
3	3/10/2026	CJ7	RT00105445	31	3/10/2026	J5	RT00105473
4	3/10/2026	CJ7A	RT00105446	32	3/10/2026	J5A	RT00105474
5	3/10/2026	H1	RT00105447	33	3/10/2026	J7	RT00105475
6	3/10/2026	H2	RT00105448	34	3/10/2026	J7A	RT00105476
7	3/10/2026	H3	RT00105449	35	3/10/2026	J21	RT00105477
8	3/10/2026	H4	RT00105450	36	3/10/2026	T1	RT00105478
9	3/10/2026	H5	RT00105451	37	3/10/2026	T2	RT00105479
10	3/10/2026	H6	RT00105452	38	3/10/2026	T3	RT00105480
11	3/10/2026	H7	RT00105453	39	3/10/2026	T4	RT00105481
12	3/10/2026	H8	RT00105454	40	3/10/2026	T5	RT00105482
13	3/10/2026	H9	RT00105455	41	3/10/2026	T6	RT00105483
14	3/10/2026	H10	RT00105456	42	3/10/2026	T7	RT00105484
15	3/10/2026	H11	RT00105457	43	3/10/2026	T8	RT00105485
16	3/10/2026	H12	RT00105458	44	3/10/2026	T9	RT00105486
17	3/10/2026	H13	RT00105459	45	3/10/2026	T10	RT00105487
18	3/10/2026	H14	RT00105460	46	3/10/2026	TG1	RT00105488
19	3/10/2026	H15	RT00105461	47	3/10/2026	V1	RT00105489
20	3/10/2026	HG1	RT00105462	48	3/10/2026	V2	RT00105490
21	3/10/2026	HG2	RT00105463				
22	3/10/2026	HG3	RT00105464				
23	3/10/2026	HG4	RT00105465				
24	3/10/2026	HG5	RT00105466				
25	3/10/2026	HG6	RT00105467				
26	3/10/2026	HG7	RT00105468				
27	3/10/2026	J1	RT00105469				
28	3/10/2026	J1A	RT00105470				

SHOP DRAWING REVIEW

ROCHELL ENGINEERING

Project Name
De la Concepcion Residence

☑ APPROVED ☐ REJECTED
☐ REVISE & RESUBMIT ☐ APPROVED AS NOTED

BY Alex Rochell, PE **DATE** 5/21/2026

SUBMITTAL# **SPEC**

This review is only for general conformance of the project and general compliance. Corrections or comments made on these drawings during this review do not relieve Contractor/Subcontractor from compliance with the requirements of the plans and specifications. Contractor is responsible for all dimensions and fabrication to be confirmed and correlated at the job site

The truss drawing(s) referenced above have been prepared by MiTek Industries, Inc. under my direct supervision based on the parameters provided by Royal Truss Manufacturing, Medley, FL.

Truss Design Engineer's Name: Roger Chavarria, P.E.

PE # 050712

NOTE: The seal on these drawings indicate acceptance of the professional engineering responsibility for the truss components shown.

Engineer's Name Date

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	CJ5	Diagonal Hip Girder	16	1	RT00105443 Job Reference (optional)

Royal Truss,Medley,FL — Run: 25.30 S Oct 16 2025 Print: 25.3.0 S Oct 16 2025 MiTek Industries, Inc. Tue Mar 10 14:11:39 — Page: 1

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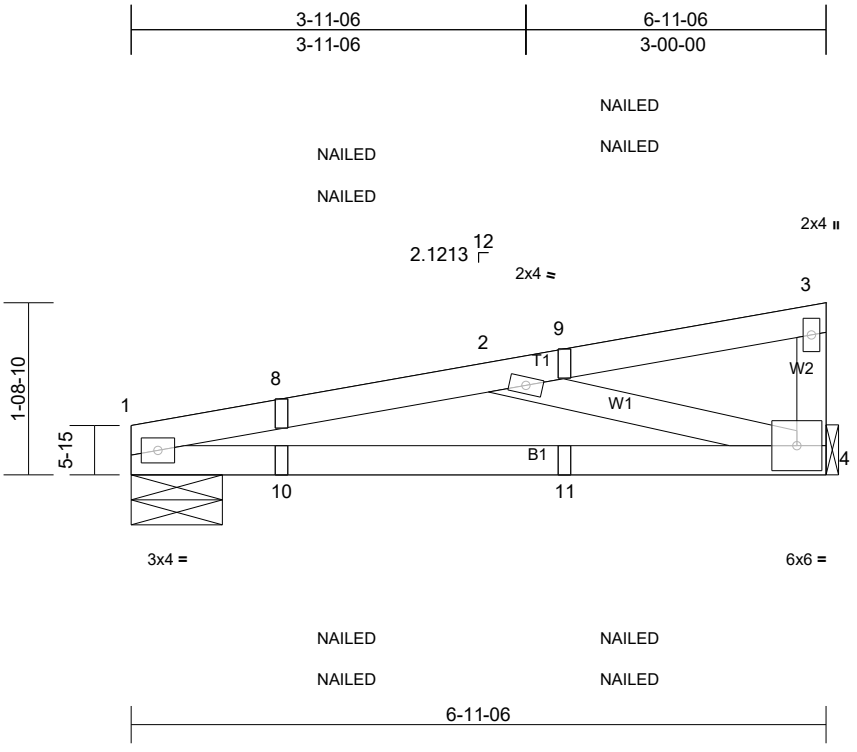

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Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.63	Vert(LL)	-0.06	4-7	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.51	Vert(CT)	-0.13	4-7	>648	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.36	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP		Wind(LL)	0.08	4-7	>999	240	Weight: 27 lb	FT = 20%

LUMBER

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

REACTIONS (lb/size) 1=400/10-15, (min. 1-08), 4=402/ Mechanical
Max Horiz 1=124 (LC 8)
Max Uplift 1=-315 (LC 8), 4=-342 (LC 8)

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

TOP CHORD	1-8=-844/1475, 2-8=-833/1478, 3-4=-116/269
BOT CHORD	1-10=-1629/820, 10-11=-1629/820, 4-11=-1629/820
WEBS	2-4=-847/1682

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-4-13 oc bracing.

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

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-0 to 4-2-15, Exterior(2R) 4-2-15 to 6-9-10 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 315 lb uplift at joint 1 and 342 lb uplift at joint 4.
8) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (lb/ft)
   Vert: 1-3=-90, 4-5=-20
   Concentrated Loads (lb)
   Vert: 10=-15, 11=-38

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	CJ5A	Diagonal Hip Girder	2	1	RT00105444 Job Reference (optional)

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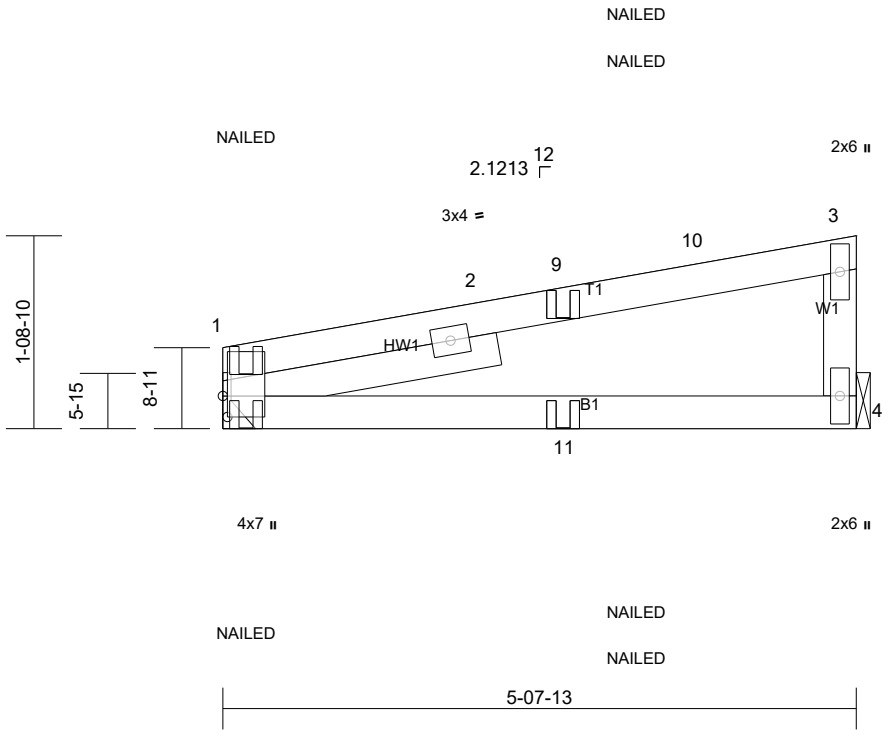

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Plate Offsets (X, Y): [1:2-04,0-08]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.76	Vert(LL)	-0.06	4-7	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.82	Vert(CT)	-0.11	4-7	>600	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.04	1	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP		Wind(LL)	0.16	4-7	>408	240	Weight: 22 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP 2400F 2.0E
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
SLIDER	Left 2x4 SP No.2 -- 2-06-00

REACTIONS (lb/size) 1=321/ Mechanical, 4=316/ Mechanical
Max Horiz 1=100 (LC 8)
Max Uplift 1=-249 (LC 8), 4=-270 (LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-482/717, 3-4=-231/524
BOT CHORD 1-11=-635/191

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.

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 1-3-9 to 5-6-7, Exterior(2R) 5-6-7 to 6-9-10 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 249 lb uplift at joint 1 and 270 lb uplift at joint 4.
9) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (lb/ft)
   Vert: 1-3=-90, 4-5=-20
   Concentrated Loads (lb)
   Vert: 5=-8, 11=-24

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	CJ7	Diagonal Hip Girder	4	1	RT00105445 Job Reference (optional)

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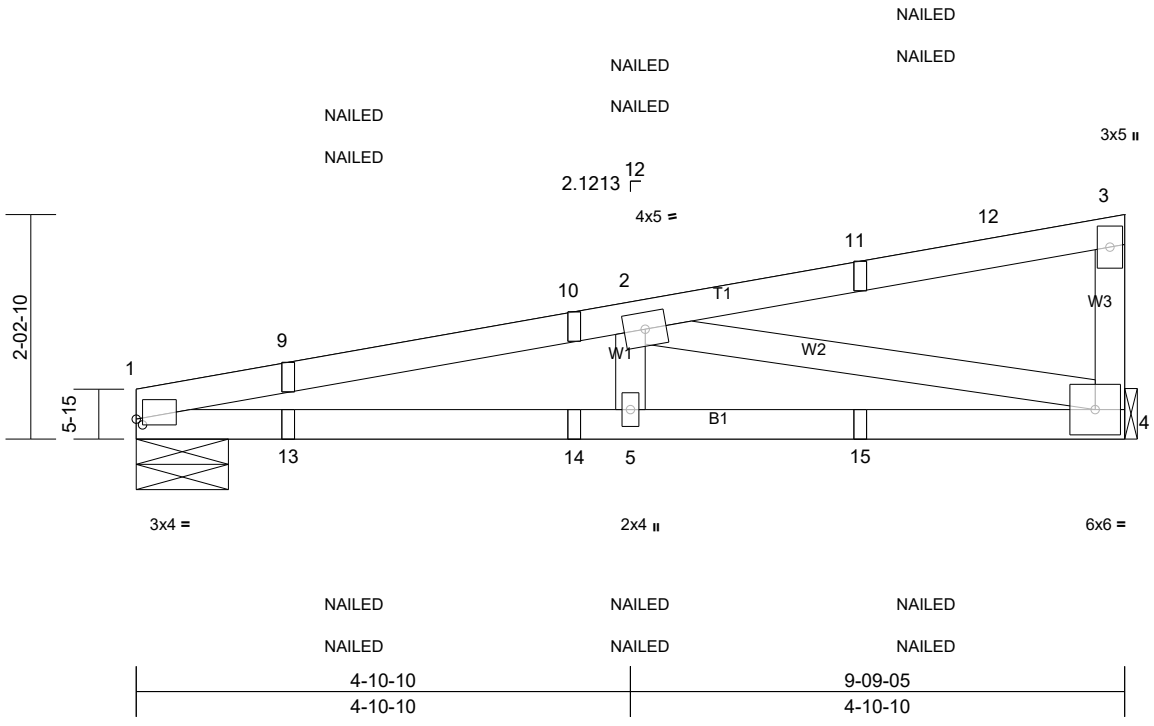

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Plate Offsets (X, Y): [1:0-12,0-11]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.42	Vert(LL)	-0.06	4-5	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.65	Vert(CT)	-0.12	4-5	>996	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.66	Horz(CT)	-0.03	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.11	5	>999	240	Weight: 40 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP 2400F 2.0E
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 3-8-4 oc bracing.

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

REACTIONS (lb/size) 1=623/10-15, (min. 1-08), 4=722/ Mechanical
Max Horiz 1=169 (LC 8)
Max Uplift 1=-497 (LC 8), 4=-580 (LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-1766/2086, 9-10=-1734/2088, 2-10=-1705/2092, 3-4=-264/369
BOT CHORD 1-13=-2282/1707, 13-14=-2282/1707, 5-14=-2282/1707, 5-15=-2282/1707, 4-15=-2282/1707
WEBS 2-4=-1643/2238

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-0 to 4-2-15, Exterior(2R) 4-2-15 to 9-7-9 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 497 lb uplift at joint 1 and 580 lb uplift at joint 4.
8) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (lb/ft)
   Vert: 1-3=-90, 4-6=-20
   Concentrated Loads (lb)
   Vert: 11=-155, 13=-15, 14=-38, 15=-77

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	CJ7A	Diagonal Hip Girder	4	1	RT00105446 Job Reference (optional)

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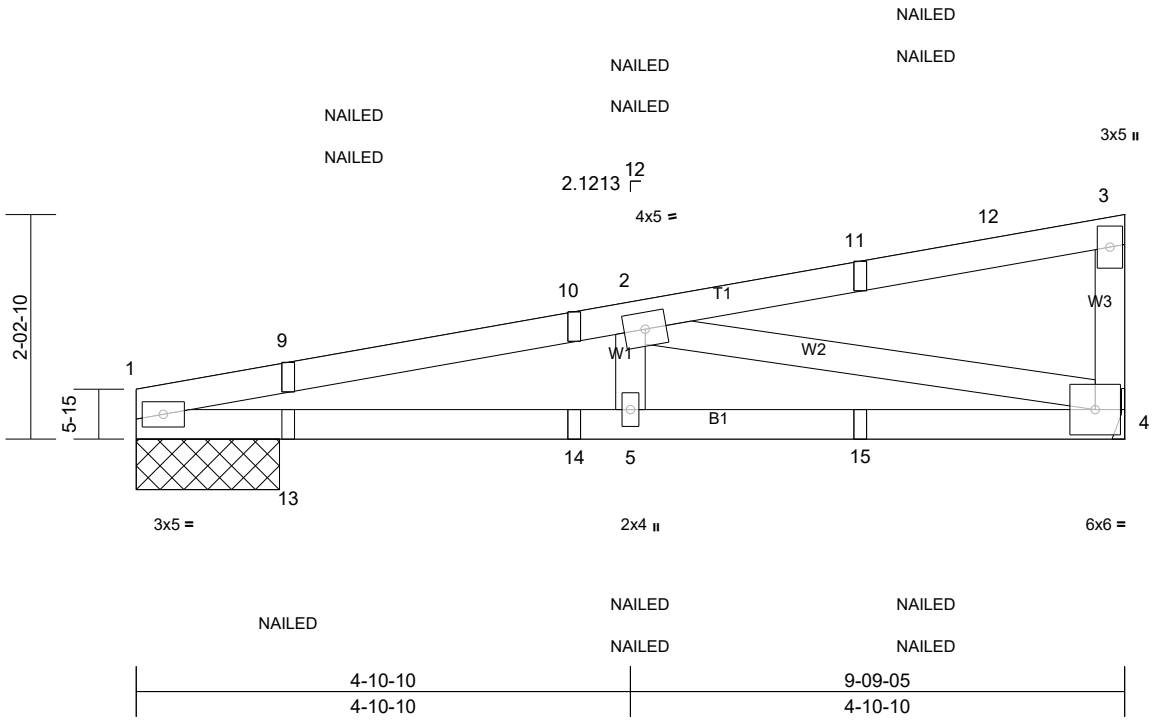

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Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.42	Vert(LL)	-0.06	5	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.66	Vert(CT)	-0.12	4-5	>988	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.67	Horz(CT)	-0.03	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.12	5	>999	240	Weight: 40 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP 2400F 2.0E
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

REACTIONS (lb/size) 1=626/1-05-00, (min. 1-08), 4=728/ Mechanical
Max Horiz 1=169 (LC 8)
Max Uplift 1=-497 (LC 8), 4=-589 (LC 8)

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 3-7-9 oc bracing.

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

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

TOP CHORD	1-9=-1792/2122, 9-10=-1759/2124, 2-10=-1731/2128, 3-4=-265/371
BOT CHORD	1-13=-2317/1732, 13-14=-2317/1732, 5-14=-2317/1732, 5-15=-2317/1732, 4-15=-2317/1732
WEBS	2-4=-1668/2273

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-0 to 4-2-15, Exterior(2R) 4-2-15 to 9-7-9 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 497 lb uplift at joint 1 and 589 lb uplift at joint 4.
8) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (lb/ft)
   Vert: 1-3=-90, 4-6=-20
   Concentrated Loads (lb)
   Vert: 11=-155, 13=-8, 14=-54, 15=-77

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	H1	Hip	2	1	RT00105447 Job Reference (optional)

Royal Truss,Medley,FL — Run: 25.30 S Oct 16 2025 Print: 25.3.0 S Oct 16 2025 MiTek Industries, Inc. Tue Mar 10 14:11:39 — Page: 1

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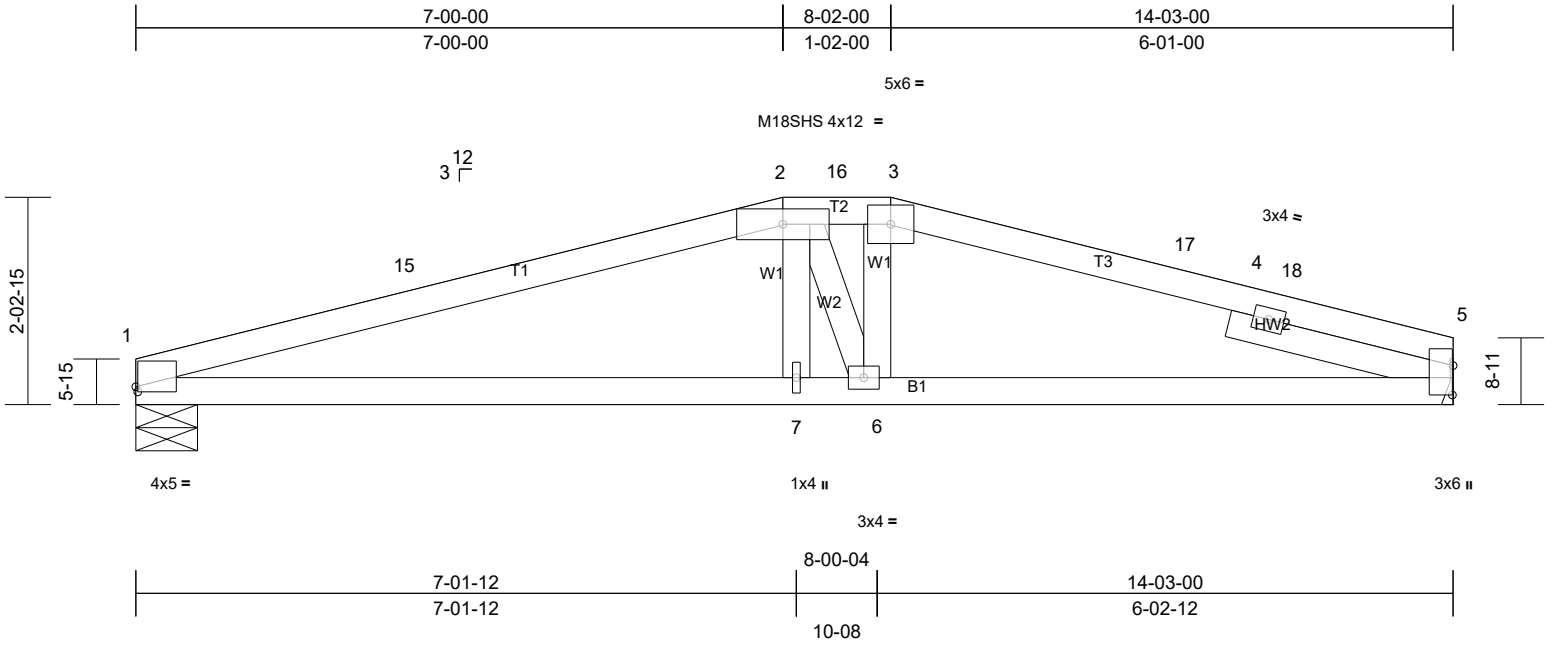

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Plate Offsets (X, Y): [1:0-04,0-10], [5:3-13,0-01]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.89	Vert(LL)	-0.06	7-10	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.56	Vert(CT)	-0.14	7-10	>999	240	M18SHS	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.12	7-10	>999	240	Weight: 54 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2 *Except* T1:2x4 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Right 2x4 SP No.2 -- 2-06-00

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) 1=784/8-00, (min. 1-08), 5=784/ Mechanical
Max Horiz 1=92 (LC 12)
Max Uplift 1=-540 (LC 8), 5=-526 (LC 9)

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

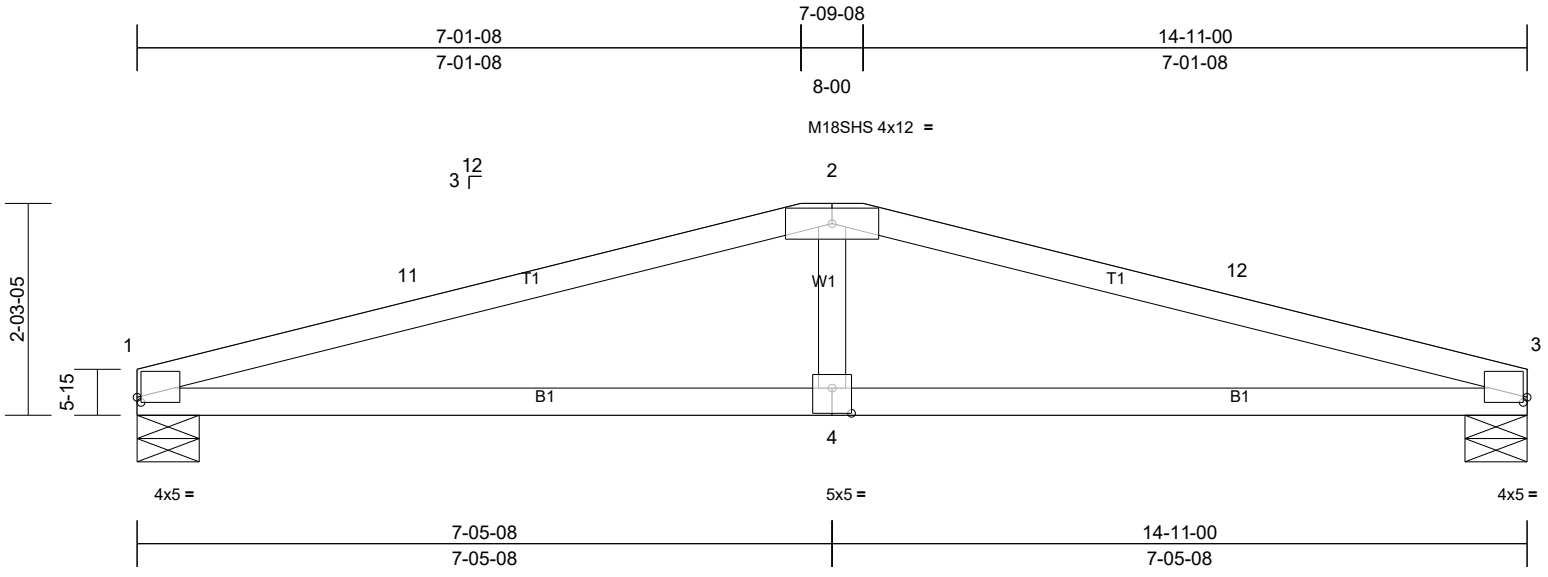
TOP CHORD	1-15=-1702/1813, 2-15=-1629/1822, 2-16=-1472/1776, 3-16=-1472/1776, 3-17=-1500/1738, 4-17=-1521/1730, 4-18=-478/465, 5-18=-503/464
BOT CHORD	1-7=-1668/1580, 6-7=-1669/1593, 5-6=-1552/1455
WEBS	2-6=-528/404, 3-6=-259/388

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 7-0-0, Exterior(2E) 7-0-0 to 8-2-0, Exterior(2R) 8-2-0 to 12-4-15, Interior (1) 12-4-15 to 14-3-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 540 lb uplift at joint 1 and 526 lb uplift at joint 5.
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

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	H2	Hip	2	1	RT00105448 Job Reference (optional)



Scale = 1:24.8

Plate Offsets (X, Y): [1:0-08,0-10], [3:0-08,0-10], [4:2-08,3-04]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.87	Vert(LL)	-0.11	4-7	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.59	Vert(CT)	-0.20	4-10	>891	240	M18SHS	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.03	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.16	4-7	>999	240	Weight: 48 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 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) 1=820/8-00, (min. 1-08), 3=820/8-00, (min. 1-08)
Max Horiz 1=81 (LC 12)
Max Uplift 1=-548 (LC 8), 3=-548 (LC 9)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-1850/1841, 2-11=-1777/1851, 2-12=-1777/1872, 3-12=-1850/1862
BOT CHORD 1-4=-1673/1726, 3-4=-1673/1726
WEBS 2-4=0/312

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 7-5-8, Exterior(2R) 7-5-8 to 11-8-7, Interior (1) 11-8-7 to 14-11-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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 3-06-00 tall by 2-00-00 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 1 and 548 lb uplift at joint 3.
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	De la Concepcion-8965
J2602880	H3	Hip	2	1	RT00105449
					Job Reference (optional)

Royal Truss,Medley,FL — Run: 25.30 S Oct 16 2025 Print: 25.3.0 S Oct 16 2025 MiTek Industries, Inc. Tue Mar 10 14:11:39 — Page: 1

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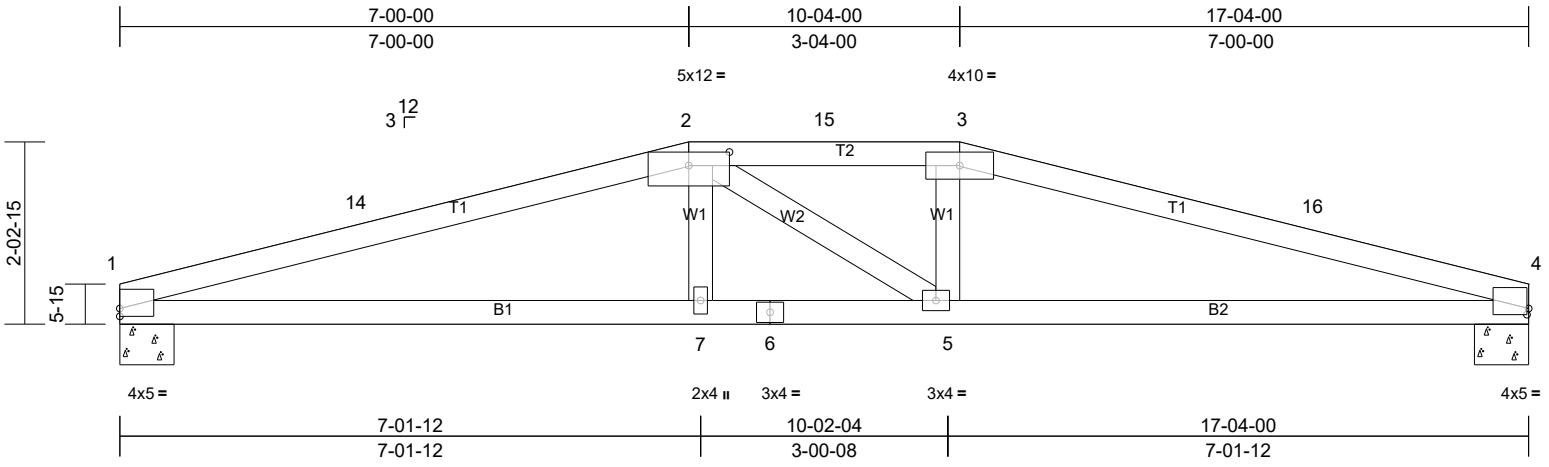

Scale = 1:28.5

Plate Offsets (X, Y): [1:Edge,1-02], [2:6-00,2-00], [4:0-04,0-14]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.77	Vert(LL)	-0.09	7-10	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.59	Vert(CT)	-0.19	7-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.05	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.14	7-10	>999	240	Weight: 62 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP 2400F 2.0E *Except* T2:2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	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) 1=953/8-00, (min. 1-08), 4=953/8-00, (min. 1-08)
Max Horiz 1=-78 (LC 13)
Max Uplift 1=-666 (LC 8), 4=-666 (LC 9)

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

TOP CHORD	1-14=-2274/2228, 2-14=-2197/2238, 2-15=-2139/2327, 3-15=-2139/2327, 3-16=-2197/2304, 4-16=-2274/2293
BOT CHORD	1-7=-2043/2131, 6-7=-2040/2139, 5-6=-2040/2139, 4-5=-2114/2131
WEBS	2-5=-275/276

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 7-0-0, Exterior(2E) 7-0-0 to 10-4-0, Exterior(2R) 10-4-0 to 14-6-15, Interior (1) 14-6-15 to 17-4-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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 3-06-00 tall by 2-00-00 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 666 lb uplift at joint 1 and 666 lb uplift at joint 4.
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	De la Concepcion-8965
J2602880	H4	Hip	2	1	RT00105450 Job Reference (optional)

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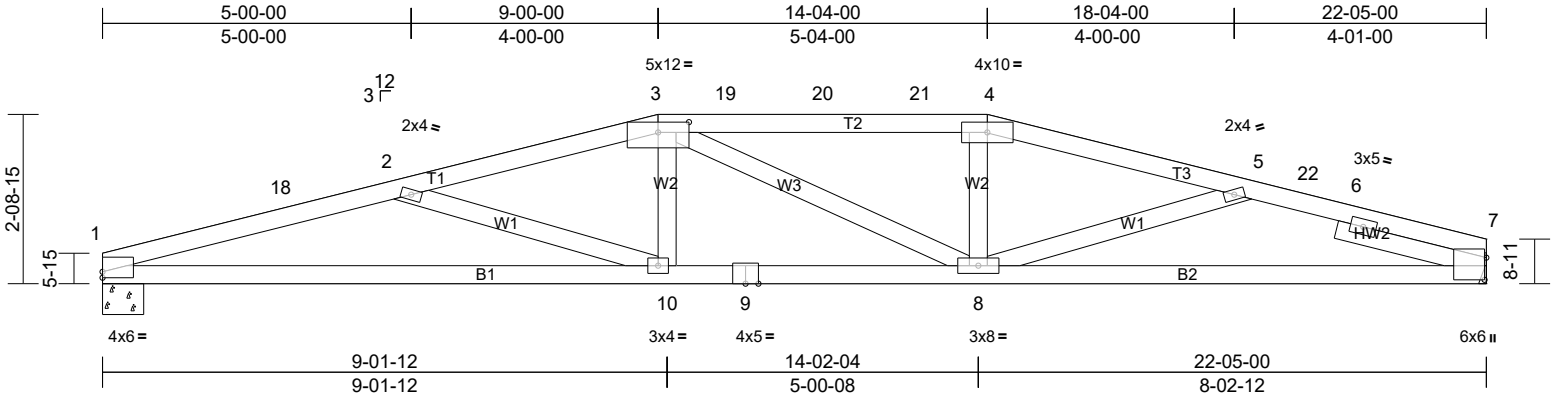

Scale = 1:37.5

Plate Offsets (X, Y): [1:Edge,1-02], [3:6-00,2-00], [7:4-05,0-05]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.89	Vert(LL)	-0.21	8-10	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.92	Vert(CT)	-0.36	10-13	>749	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.09	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.33	8-10	>825	240	Weight: 99 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2 *Except* T1:2x4 SP 2400F 2.0E
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
SLIDER	Right 2x4 SP No.2 -- 2-06-00

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) 1=1233/8-00, (min. 1-08), 7=1233/ Mechanical
Max Horiz 1=114 (LC 12)
Max Uplift 1=-875 (LC 8), 7=-862 (LC 9)

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

TOP CHORD	1-18=-3414/3002, 2-18=-3347/3011, 2-3=-2892/2543, 3-19=-2679/2456, 19-20=-2679/2456, 20-21=-2679/2456, 4-21=-2679/2456, 4-5=-2775/2451, 5-22=-2849/2590, 6-22=-2876/2586, 6-7=-727/353
BOT CHORD	1-10=-2853/3247, 9-10=-2322/2796, 8-9=-2322/2796, 7-8=-2394/2733
WEBS	3-10=-101/339, 4-8=-65/260, 5-8=-143/291, 3-8=-349/309, 2-10=-523/600

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior (1) 13-2-15 to 14-4-0, Exterior(2R) 14-4-0 to 18-7-6, Interior (1) 18-7-6 to 22-5-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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 3-06-00 tall by 2-00-00 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 875 lb uplift at joint 1 and 862 lb uplift at joint 7.
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	De la Concepcion-8965
J2602880	H5	Hip	2	1	RT00105451 Job Reference (optional)

Royal Truss,Medley,FL — Run: 25.30 S Oct 16 2025 Print: 25.3.0 S Oct 16 2025 MiTek Industries, Inc. Tue Mar 10 14:11:39 — Page: 1

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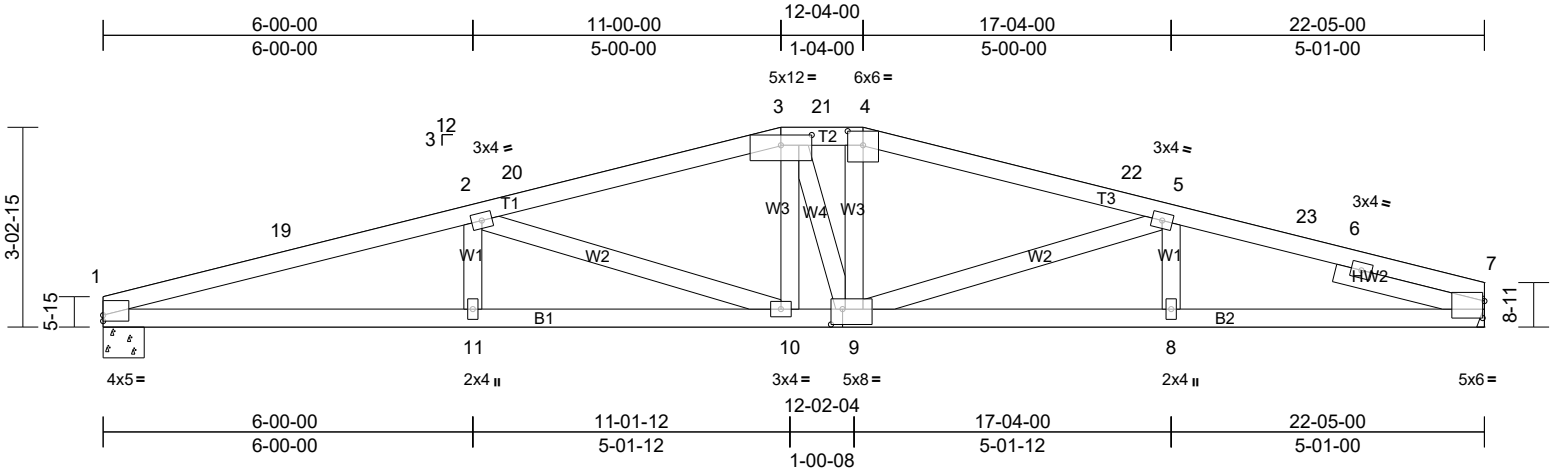

Scale = 1:37.6

Plate Offsets (X, Y): [1:Edge,1-02], [3:6-00,2-00], [4:3-00,2-12], [7:0-05,3-05], [9:2-04,3-00]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	1.00	Vert(LL)	-0.22	10-11	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.99	Vert(CT)	-0.41	10-11	>650	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.10	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.33	10-11	>815	240	Weight: 103 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
SLIDER	Right 2x4 SP No.2 -- 2-06-00

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) 1=1233/8-00, (min. 1-08), 7=1233/ Mechanical
Max Horiz 1=136 (LC 12)
Max Uplift 1=-843 (LC 8), 7=-827 (LC 9)

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

TOP CHORD	1-19=-3402/2742, 2-19=-3331/2754, 2-20=-2506/2128, 3-20=-2451/2139, 3-21=-2393/2165, 4-21=-2393/2165, 4-22=-2455/2147, 5-22=-2491/2137, 5-23=-2920/2448, 6-23=-2937/2441, 6-7=-751/651
BOT CHORD	1-11=-2607/3232, 10-11=-2607/3232, 9-10=-1883/2394, 8-9=-2274/2801, 7-8=-2274/2801
WEBS	3-10=-234/362, 4-9=-223/322, 5-9=-560/524, 2-10=-957/819

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 11-0-0, Exterior(2E) 11-0-0 to 12-4-0, Exterior(2R) 12-4-0 to 16-6-15, Interior (1) 16-6-15 to 22-5-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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 3-06-00 tall by 2-00-00 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 843 lb uplift at joint 1 and 827 lb uplift at joint 7.
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	De la Concepcion-8965
J2602880	H6	Hip	2	1	RT00105452
					Job Reference (optional)

Royal Truss,Medley,FL — Run: 25.30 S Oct 16 2025 Print: 25.3.0 S Oct 16 2025 MiTek Industries, Inc. Tue Mar 10 14:11:39 — Page: 1

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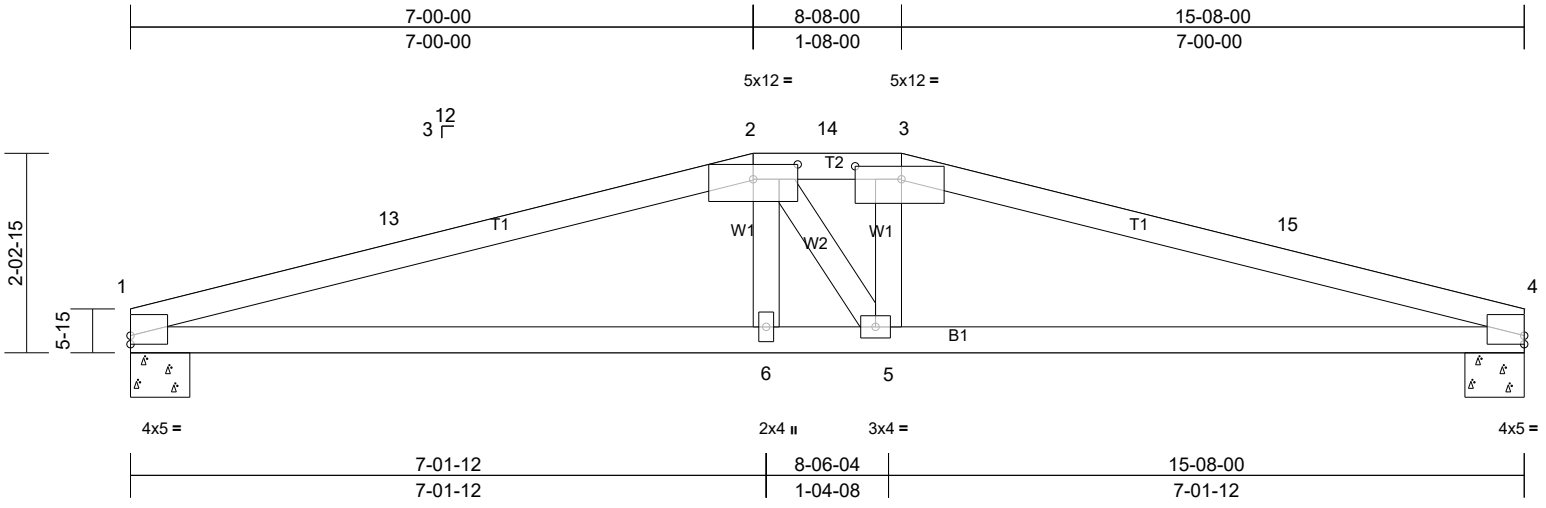

Scale = 1:26

Plate Offsets (X, Y): [1:Edge,1-02], [2:6-00,2-00], [3:6-04,1-12], [4:Edge,1-02]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.84	Vert(LL)	-0.07	6-9	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.54	Vert(CT)	-0.16	6-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.03	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.12	6-9	>999	240	Weight: 55 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP 2400F 2.0E *Except* T2:2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	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) 1=862/8-00, (min. 1-08), 4=862/8-00, (min. 1-08)
Max Horiz 1=78 (LC 12)
Max Uplift 1=-590 (LC 8), 4=-590 (LC 9)

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

TOP CHORD	1-13=-1959/1977, 2-13=-1884/1987, 2-14=-1835/2061, 3-14=-1835/2061, 3-15=-1885/2022, 4-15=-1959/2011
BOT CHORD	1-6=-1793/1827, 5-6=-1791/1834, 4-5=-1836/1828
WEBS	3-5=-132/273, 2-5=-299/302

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 7-0-0, Exterior(2E) 7-0-0 to 8-8-0, Exterior(2R) 8-8-0 to 12-10-15, Interior (1) 12-10-15 to 15-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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 3-06-00 tall by 2-00-00 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 590 lb uplift at joint 1 and 590 lb uplift at joint 4.
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	De la Concepcion-8965
J2602880	H7	Hip	2	1	RT00105453 Job Reference (optional)

Royal Truss,Medley,FL — Run: 25.30 S Oct 16 2025 Print: 25.3.0 S Oct 16 2025 MiTek Industries, Inc. Tue Mar 10 14:11:39 — Page: 1

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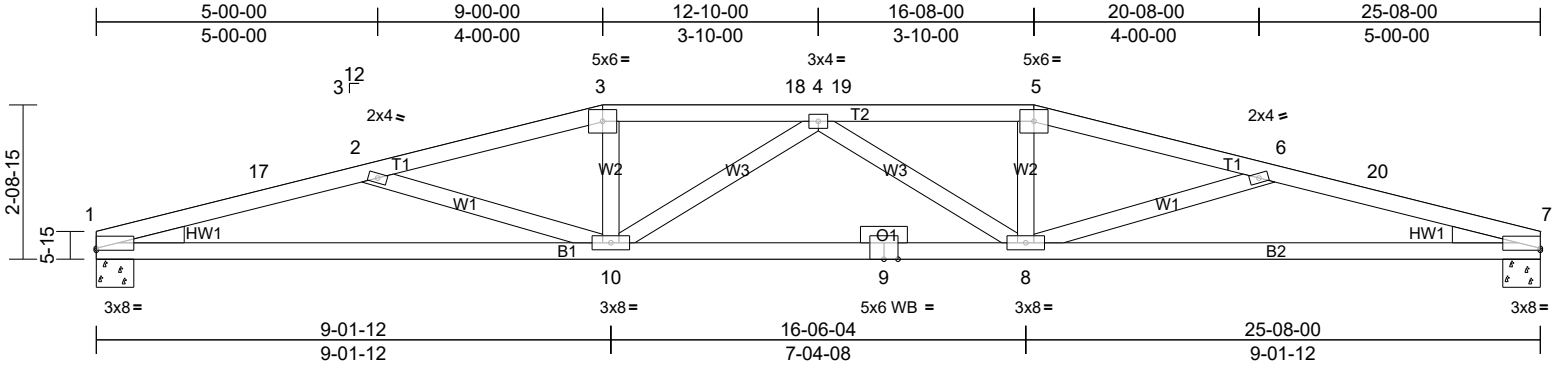

Scale = 1:41.1

Plate Offsets (X, Y): [1:Edge,0-06], [7:Edge,0-06]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.72	Vert(LL)	-0.29	8-10	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.41	Vert(CT)	-0.51	8-10	>603	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.10	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.44	8-10	>694	240	Weight: 114 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP 2400F 2.0E *Except* T2:2x4 SP No.2
BOT CHORD	2x4 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2
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) 1=1412/8-00, (min. 1-08), 7=1412/8-00, (min. 1-08)
Max Horiz 1=101 (LC 12)
Max Uplift 1=-1006 (LC 8), 7=-1006 (LC 9)

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

TOP CHORD	1-17=-4054/3375, 2-17=-3982/3384, 2-3=-3552/2902, 3-18=-3444/2899, 4-18=-3444/2899, 4-19=-3444/2899, 5-19=-3444/2899, 5-6=-3552/2902, 6-20=-3982/3384, 7-20=-4054/3375
BOT CHORD	1-10=-3191/3863, 9-10=-2927/3691, 8-9=-2927/3691, 7-8=-3189/3863
WEBS	3-10=-262/448, 5-8=-262/448, 2-10=-506/597, 6-8=-506/599, 4-8=-489/437, 4-10=-489/437

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior (1) 13-2-15 to 16-8-0, Exterior(2R) 16-8-0 to 20-11-6, Interior (1) 20-11-6 to 25-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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 3-06-00 tall by 2-00-00 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 1006 lb uplift at joint 1 and 1006 lb uplift at joint 7.
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	De la Concepcion-8965
J2602880	H8	Hip	2	1	RT00105454 Job Reference (optional)

Royal Truss,Medley,FL — Run: 25.30 S Oct 16 2025 Print: 25.3.0 S Oct 16 2025 MiTek Industries, Inc. Tue Mar 10 14:11:39 — Page: 1

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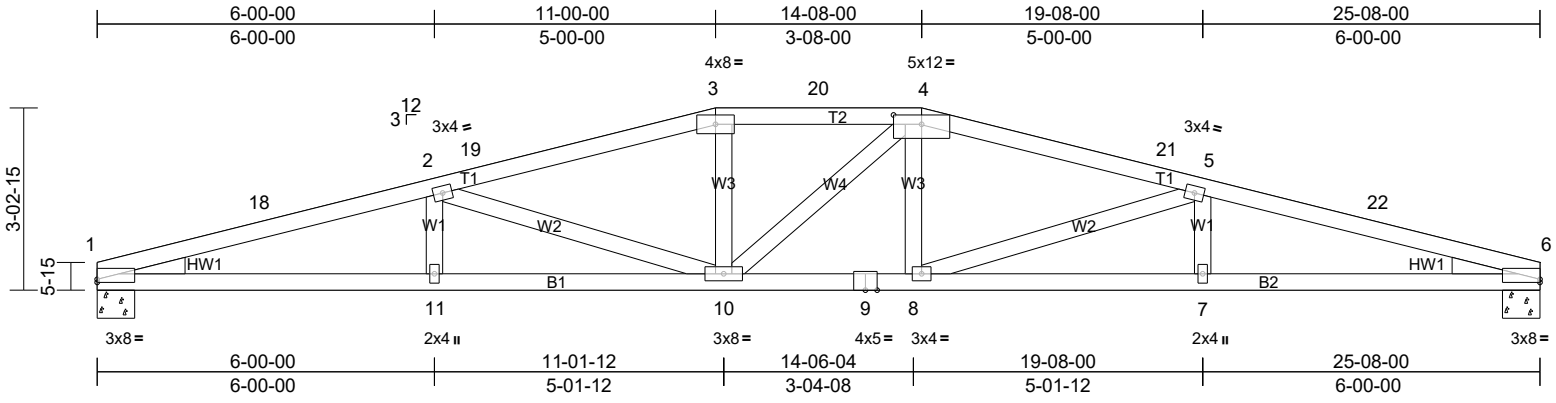

Scale = 1:41.2

Plate Offsets (X, Y): [1:Edge,0-10], [4:6-00,2-00], [6:Edge,0-10]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.72	Vert(LL)	-0.23	10-11	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.41	Vert(CT)	-0.43	10-11	>723	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.10	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.34	10-11	>893	240	Weight: 114 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP 2400F 2.0E *Except* T2:2x4 SP No.2
BOT CHORD	2x4 SP 2400F 2.0E
WEBS	2x4 SP No.2
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) 1=1412/8-00, (min. 1-08), 6=1412/8-00, (min. 1-08)
Max Horiz 1=123 (LC 12)
Max Uplift 1=-976 (LC 8), 6=-976 (LC 9)

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

TOP CHORD	1-18=-4021/3246, 2-18=-3947/3258, 2-19=-3191/2706, 3-19=-3137/2717, 3-20=-3061/2700, 4-20=-3061/2700, 4-21=-3138/2757, 5-21=-3192/2747, 5-22=-3946/3296, 6-22=-4020/3284
BOT CHORD	1-11=-3056/3829, 10-11=-3056/3829, 9-10=-2460/3062, 8-9=-2460/3062, 7-8=-3104/3828, 6-7=-3104/3828
WEBS	3-10=-237/370, 4-8=-220/383, 2-10=-884/778, 5-8=-882/777

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 11-0-0, Exterior(2E) 11-0-0 to 14-8-0, Exterior(2R) 14-8-0 to 18-10-15, Interior (1) 18-10-15 to 25-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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 3-06-00 tall by 2-00-00 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 976 lb uplift at joint 1 and 976 lb uplift at joint 6.
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	De la Concepcion-8965
J2602880	H9	Roof Special	2	2	RT00105455 Job Reference (optional)

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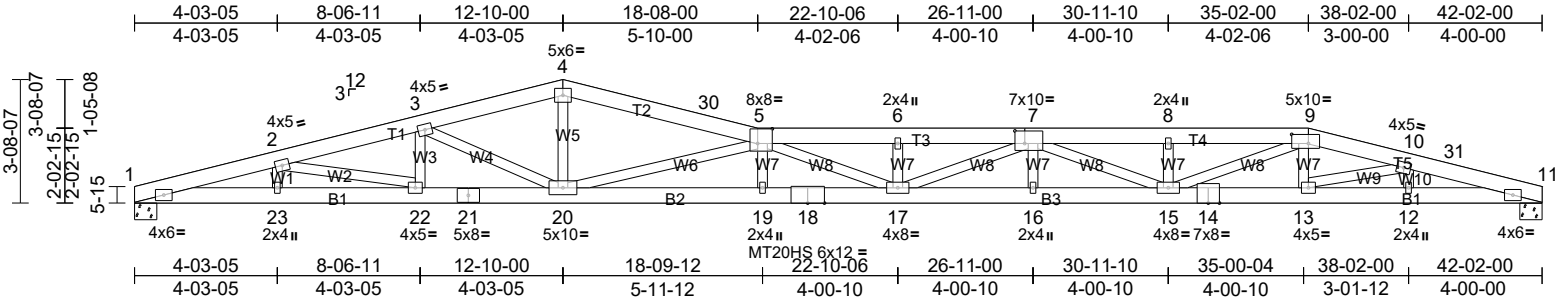

Scale = 1:69.3

Plate Offsets (X, Y): [5:5-04,5-04], [7:3-08,4-08], [9:6-00,3-04]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.80	Vert(LL)	-0.70	17-19	>725	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.67	Vert(CT)	-1.28	17-19	>396	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.16	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	1.12	17-19	>454	240	Weight: 535 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP 2400F 2.0E *Except* T4,T3:2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except* B2,B3:2x6 SP 2400F 2.0E
WEBS	2x4 SP 2400F 2.0E
LBR SCAB	0-0 SP 2400F 2.0E both sides

BRACING

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

REACTIONS (lb/size) 1=2319/8-00, (min. 1-08), 11=2319/8-00, (min. 1-08)
Max Horiz 1=-143 (LC 17)
Max Uplift 1=-1361 (LC 9), 11=-1679 (LC 9)

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

TOP CHORD 1-2=-7668/5969, 2-3=-7510/5774, 3-4=-6780/5280, 4-30=-6758/5243, 5-30=-6787/5233, 5-6=-13288/10104, 6-7=-13288/10104, 7-8=-10388/8067, 8-9=-10388/8067, 9-10=-7923/6203, 10-31=-7477/5936, 11-31=-7516/5934

BOT CHORD 1-23=-5669/7403, 22-23=-5669/7403, 21-22=-5444/7274, 20-21=-5444/7274, 19-20=-9828/13132, 18-19=-9814/13128, 17-18=-9814/13128, 16-17=-9385/12531, 15-16=-9385/12531, 14-15=-5893/7718, 13-14=-5893/7718, 12-13=-5650/7250, 11-12=-5650/7250

WEBS 4-20=-1922/2660, 10-13=-267/475, 2-22=-359/321, 6-17=-339/349, 8-15=-274/338, 5-17=-349/443, 7-17=-634/827, 7-15=-2342/1747, 9-15=-2141/2901, 3-20=-945/785, 5-20=-6875/5238

NOTES

1) 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 9-00 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 9-00 oc.
   Web connected as follows: 2x4 - 1 row at 9-00 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 4-3-5, Interior (1) 4-3-5 to 12-10-0, Exterior(2R) 12-10-0 to 17-0-10, Interior (1) 17-0-10 to 35-2-0, Exterior(2R) 35-2-0 to 39-4-10, Interior (1) 39-4-10 to 42-2-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
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 3-06-00 tall by 2-00-00 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 1361 lb uplift at joint 1 and 1679 lb uplift at joint 11.
11) 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	De la Concepcion-8965
J2602880	H10	Roof Special	2	1	RT00105456 Job Reference (optional)

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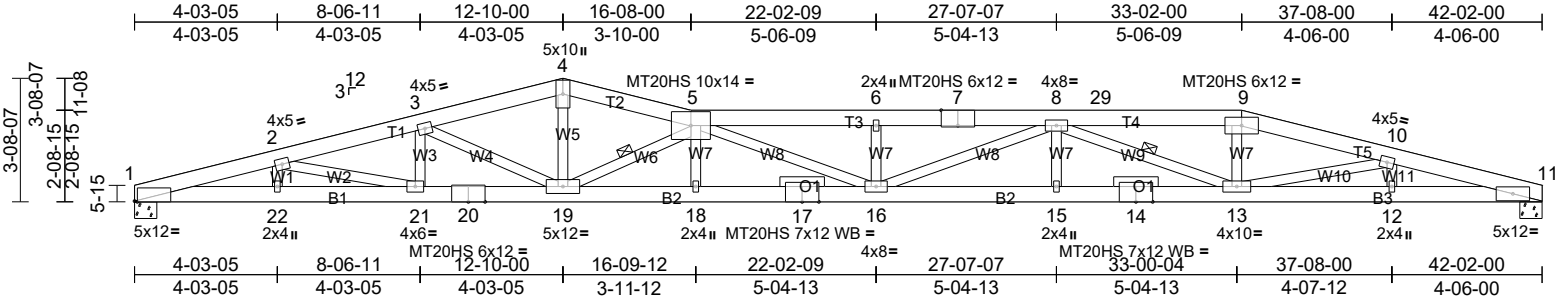

Scale = 1:69.3

Plate Offsets (X, Y): [1:1-00,Edge], [7:6-00,Edge]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.99	Vert(LL)	-0.88	16-18	>574	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.54	Vert(CT)	-1.62	16-18	>313	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.25	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	1.39	16-18	>363	240	Weight: 273 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP 2400F 2.0E *Except* T1,T2:2x6 SP No.2
BOT CHORD	2x6 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 5-19, 8-13

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

REACTIONS (lb/size) 1=2319/8-00, (min. 1-15), 11=2319/8-00, (min. 1-15)
Max Horiz 1=-143 (LC 13)
Max Uplift 1=-1361 (LC 9), 11=-1679 (LC 9)

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

TOP CHORD	1-2=-7778/6129, 2-3=-7505/5857, 3-4=-6697/5304, 4-5=-6682/5285, 5-6=-10634/8208, 6-7=-10634/8208, 7-8=-10634/8208, 8-29=-7395/5863, 9-29=-7395/5863, 9-10=-7554/5916, 10-11=-7711/6096
BOT CHORD	1-22=-5820/7517, 21-22=-5820/7517, 20-21=-5471/7258, 19-20=-5471/7258, 18-19=-7652/10083, 17-18=-7644/10083, 16-17=-7644/10083, 15-16=-7230/9589, 14-15=-7230/9589, 13-14=-7230/9589, 12-13=-5806/7447, 11-12=-5806/7447
WEBS	9-13=-821/1229, 4-19=-2063/2753, 5-19=-4208/3289, 3-19=-972/804, 2-21=-455/395, 6-16=-525/533, 5-16=-671/872, 8-16=-872/1135, 8-13=-2382/1764, 10-13=-187/260

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 4-3-5, Interior (1) 4-3-5 to 12-10-0, Exterior(2E) 12-10-0 to 16-8-0, Interior (1) 16-8-0 to 33-2-0, Exterior(2R) 33-2-0 to 37-8-0, Interior (1) 37-8-0 to 42-2-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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 3-06-00 tall by 2-00-00 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 1361 lb uplift at joint 1 and 1679 lb uplift at joint 11.
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	De la Concepcion-8965
J2602880	H11	Roof Special	2	1	RT00105457 Job Reference (optional)

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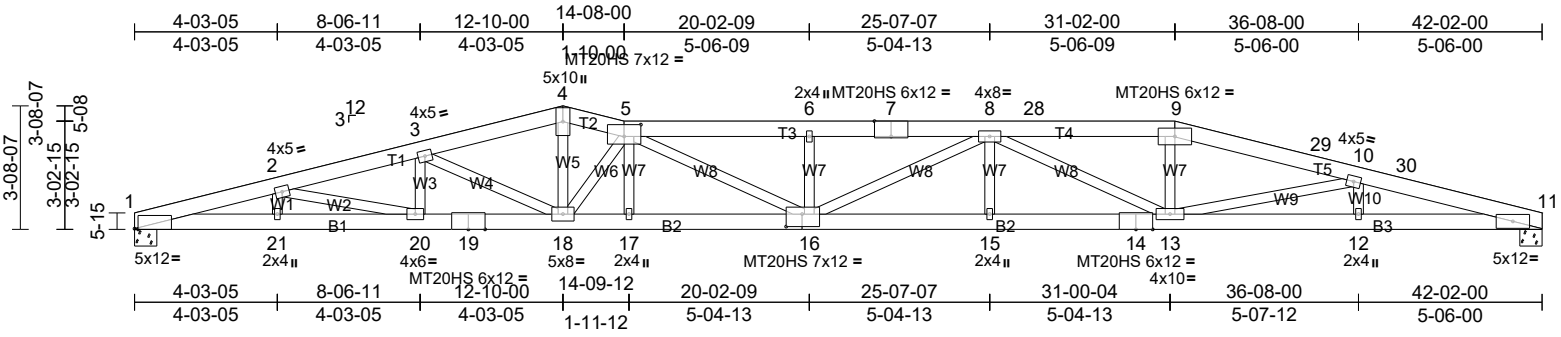

Scale = 1:69.3

Plate Offsets (X, Y): [1:1-04,Edge], [5:6-00,4-04], [7:6-00,Edge], [16:5-12,4-08]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.97	Vert(LL)	-0.69	16	>739	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.49	Vert(CT)	-1.26	15-16	>403	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.22	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	1.08	15-16	>468	240	Weight: 273 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP 2400F 2.0E *Except* T1,T2:2x6 SP No.2
BOT CHORD	2x6 SP 2400F 2.0E
WEBS	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) 1=2319/8-00, (min. 1-15), 11=2319/8-00, (min. 1-15)
Max Horiz 1=-143 (LC 13)
Max Uplift 1=-1361 (LC 9), 11=-1679 (LC 9)

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

TOP CHORD 1-2=-7777/5986, 2-3=-7509/5802, 3-4=-6684/5220, 4-5=-6636/5235, 5-6=-8779/6824, 6-7=-8779/6824, 7-8=-8779/6824, 8-28=-6939/5504, 9-28=-6939/5504, 9-29=-7094/5558, 10-29=-7123/5548, 10-30=-7743/6082, 11-30=-7788/6078

BOT CHORD 1-21=-5700/7516, 20-21=-5700/7516, 19-20=-5472/7262, 18-19=-5472/7262, 17-18=-5881/7901, 16-17=-5877/7901, 15-16=-6255/8345, 14-15=-6255/8345, 13-14=-6255/8345, 12-13=-5785/7523, 11-12=-5785/7523

WEBS 9-13=-728/1119, 4-18=-2065/2751, 5-18=-2626/2005, 3-20=-83/257, 3-18=-974/805, 2-20=-455/395, 6-16=-541/547, 5-16=-933/1221, 8-16=-372/489, 8-13=-1582/1187, 10-13=-702/642

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 4-3-5, Interior (1) 4-3-5 to 12-10-0, Exterior(2E) 12-10-0 to 14-8-0, Interior (1) 14-8-0 to 31-2-0, Exterior(2R) 31-2-0 to 35-4-10, Interior (1) 35-4-10 to 42-2-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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 3-06-00 tall by 2-00-00 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 1361 lb uplift at joint 1 and 1679 lb uplift at joint 11.
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	De la Concepcion-8965
J2602880	H12	Hip	2	1	RT00105458 Job Reference (optional)

Royal Truss,Medley,FL — Run: 25.30 S Oct 16 2025 Print: 25.3.0 S Oct 16 2025 MiTek Industries, Inc. Tue Mar 10 14:11:39 — Page: 1

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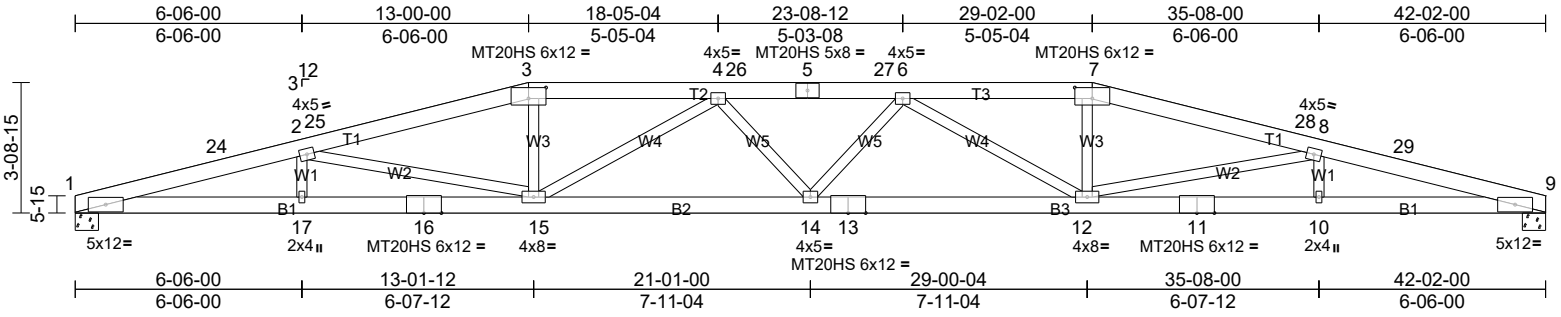

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Plate Offsets (X, Y): [3:6-00,3-12], [7:6-00,3-12]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.91	Vert(LL)	-0.58	14	>872	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.45	Vert(CT)	-1.06	14	>476	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.22	9	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.92	14	>549	240	Weight: 260 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP 2400F 2.0E *Except* T2,T3:2x6 SP No.2
BOT CHORD	2x6 SP 2400F 2.0E
WEBS	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) 1=2319/8-00, (min. 1-15), 9=2319/8-00, (min. 1-15)
Max Horiz 1=145 (LC 12)
Max Uplift 1=-1677 (LC 8), 9=-1677 (LC 9)

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

TOP CHORD 1-24=-7791/6187, 2-24=-7747/6193, 2-25=-6670/5322, 3-25=-6667/5336, 3-4=-6513/5324, 4-26=-7362/5941, 5-26=-7362/5941, 5-27=-7362/5941, 6-27=-7362/5941, 6-7=-6513/5324, 7-28=-6667/5336, 8-28=-6670/5321, 8-29=-7747/6194, 9-29=-7791/6187

BOT CHORD 1-17=-5915/7524, 16-17=-5915/7524, 15-16=-5915/7524, 14-15=-5663/7317, 13-14=-5665/7317, 12-13=-5665/7317, 11-12=-5912/7524, 10-11=-5912/7524, 9-10=-5912/7524

WEBS 3-15=-666/1010, 7-12=-666/1010, 2-15=-1164/1031, 8-12=-1164/1036, 4-15=-1226/962, 4-14=-222/393, 6-14=-222/393, 6-12=-1226/960

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 4-2-10, Interior (1) 4-2-10 to 13-0-0, Exterior(2R) 13-0-0 to 18-11-9, Interior (1) 18-11-9 to 29-2-0, Exterior(2R) 29-2-0 to 35-1-9, Interior (1) 35-1-9 to 42-2-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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 3-06-00 tall by 2-00-00 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 1677 lb uplift at joint 1 and 1677 lb uplift at joint 9.
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	De la Concepcion-8965
J2602880	H13	Hip	2	1	RT00105459 Job Reference (optional)

Royal Truss,Medley,FL — Run: 25.30 S Oct 16 2025 Print: 25.3.0 S Oct 16 2025 MiTek Industries, Inc. Tue Mar 10 14:11:39 — Page: 1

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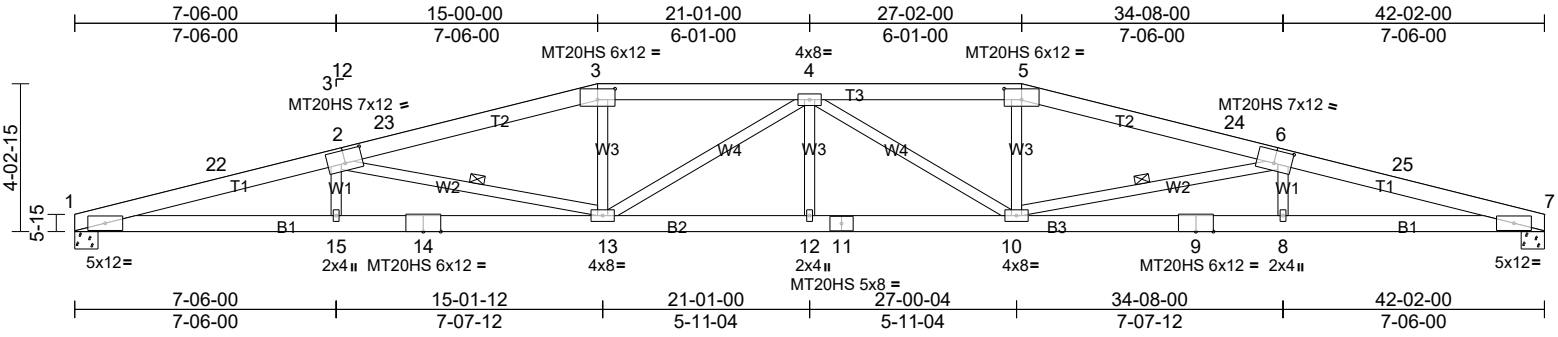

Scale = 1:66.4

Plate Offsets (X, Y): [2:6-00,4-08], [3:6-00,3-12], [5:6-00,3-12], [6:6-00,4-08]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.87	Vert(LL)	-0.50	12	>999	360	MT20HS	187/143
TCDL	15.0	Lumber DOL	1.33	BC	0.45	Vert(CT)	-0.93	12	>547	240	MT20	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.21	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.78	12-13	>647	240	Weight: 261 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP 2400F 2.0E *Except* T3:2x6 SP No.2
BOT CHORD	2x6 SP 2400F 2.0E
WEBS	2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 2-13, 6-10

REACTIONS (lb/size) 1=2319/8-00, (min. 1-15), 7=2319/8-00, (min. 1-15)
Max Horiz 1=168 (LC 12)
Max Uplift 1=-1651 (LC 8), 7=-1651 (LC 9)

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

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

TOP CHORD 1-22=-7722/6137, 2-22=-7681/6146, 2-23=-6251/5048, 3-23=-6177/5062, 3-4=-6057/5055, 4-5=-6057/5055, 5-24=-6177/5062, 6-24=-6251/5048, 6-25=-7681/6146, 7-25=-7722/6138

BOT CHORD 1-15=-5856/7452, 14-15=-5867/7439, 13-14=-5867/7439, 12-13=-5012/6483, 11-12=-5012/6483, 10-11=-5012/6483, 9-10=-5865/7439, 8-9=-5865/7439, 7-8=-5854/7452

WEBS 3-13=-542/863, 5-10=-542/863, 2-13=-1530/1306, 2-15=0/272, 4-13=-852/650, 4-10=-852/648, 6-10=-1530/1311, 6-8=0/272

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 4-2-10, Interior (1) 4-2-10 to 15-0-0, Exterior(2R) 15-0-0 to 21-1-0, Interior (1) 21-1-0 to 27-2-0, Exterior(2R) 27-2-0 to 33-1-9, Interior (1) 33-1-9 to 42-2-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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 3-06-00 tall by 2-00-00 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 1651 lb uplift at joint 1 and 1651 lb uplift at joint 7.
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	De la Concepcion-8965
J2602880	H14	Hip	2	1	RT00105460 Job Reference (optional)

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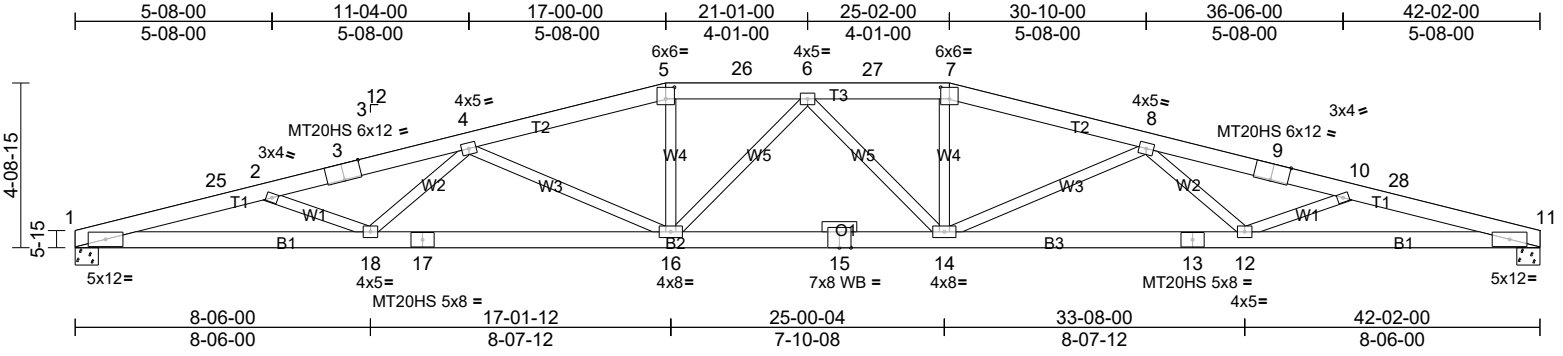

Scale = 1:66.6

Plate Offsets (X, Y): [3:6-00,Edge], [5:3-00,4-00], [7:3-00,4-00], [9:6-00,Edge]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.73	Vert(LL)	-0.46	14-16	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.43	Vert(CT)	-0.85	14-16	>595	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.20	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.70	14-16	>723	240	Weight: 268 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP 2400F 2.0E *Except* T3:2x6 SP No.2
BOT CHORD	2x6 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	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) 1=2319/8-00, (min. 1-15), 11=2319/8-00, (min. 1-15)
Max Horiz 1=190 (LC 12)
Max Uplift 1=-1621 (LC 8), 11=-1621 (LC 9)

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

TOP CHORD 1-25=-7911/6332, 2-25=-7865/6336, 2-3=-7367/5827, 3-4=-7329/5836, 4-5=-5759/4751, 5-26=-5555/4705, 6-26=-5555/4705, 6-27=-5555/4705, 7-27=-5555/4705, 7-8=-5759/4751, 8-9=-7329/5836, 9-10=-7367/5827, 10-28=-7865/6336, 11-28=-7911/6332

BOT CHORD 1-18=-6029/7642, 17-18=-5328/6724, 16-17=-5328/6724, 15-16=-4410/5698, 14-15=-4410/5698, 13-14=-5327/6724, 12-13=-5327/6724, 11-12=-6030/7642

WEBS 5-16=-659/931, 7-14=-659/931, 6-14=-520/455, 6-16=-520/456, 4-16=-1351/1219, 8-14=-1351/1219, 4-18=-277/570, 8-12=-277/570, 2-18=-609/694, 10-12=-609/697

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 4-2-10, Interior (1) 4-2-10 to 17-0-0, Exterior(2R) 17-0-0 to 22-11-9, Interior (1) 22-11-9 to 25-2-0, Exterior(2R) 25-2-0 to 30-10-0, Interior (1) 30-10-0 to 42-2-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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 3-06-00 tall by 2-00-00 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 1621 lb uplift at joint 1 and 1621 lb uplift at joint 11.
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	De la Concepcion-8965	RT00105461
J2602880	H15	Hip	2	1	Job Reference (optional)	

Royal Truss,Medley,FL — Run: 25.30 S Oct 16 2025 Print: 25.3.0 S Oct 16 2025 MiTek Industries, Inc. Tue Mar 10 14:11:39 — Page: 1

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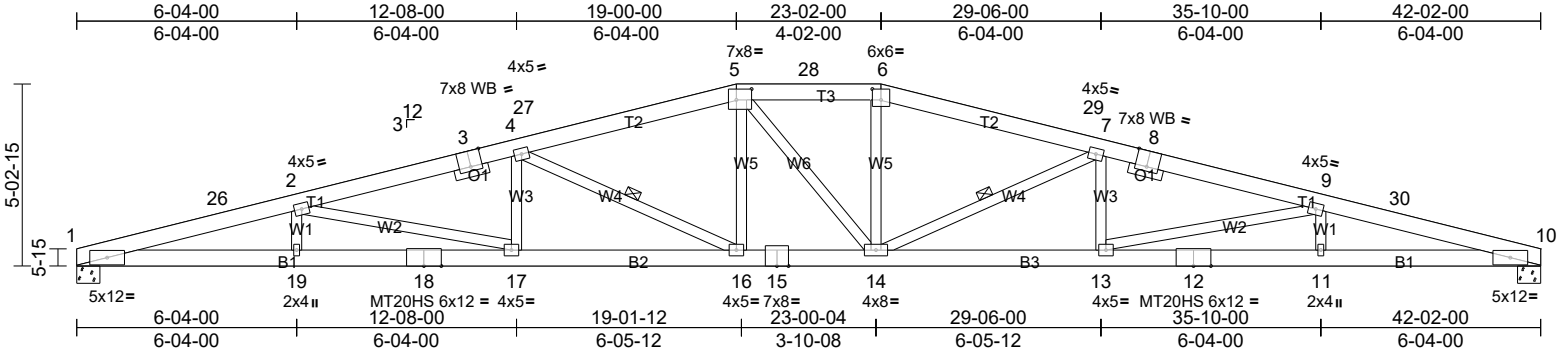

Scale = 1:66.6

Plate Offsets (X, Y): [3:4-00,Edge], [5:5-04,3-12], [6:3-00,3-12], [8:4-00,Edge]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.98	Vert(LL)	-0.47	16	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.44	Vert(CT)	-0.87	16	>581	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.20	10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.71	16-17	>717	240	Weight: 275 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2 *Except* T1:2x6 SP 2400F 2.0E
BOT CHORD	2x6 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 4-16, 7-14

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

REACTIONS (lb/size) 1=2319/8-00, (min. 1-15), 10=2319/8-00, (min. 1-15)
Max Horiz 1=-212 (LC 17)
Max Uplift 1=-1588 (LC 8), 10=-1588 (LC 9)

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

TOP CHORD 1-26=-7804/6180, 2-26=-7761/6186, 2-3=-6774/5426, 3-4=-6679/5436, 4-27=-5302/4404, 5-27=-5294/4420, 5-28=-5100/4422, 6-28=-5100/4422, 6-29=-5299/4457, 7-29=-5307/4443, 7-8=-6677/5505, 8-9=-6772/5495, 9-30=-7761/6134, 10-30=-7805/6129

BOT CHORD 1-19=-5874/7536, 18-19=-5874/7536, 17-18=-5874/7536, 16-17=-5051/6532, 15-16=-3866/5094, 14-15=-3866/5094, 13-14=-5116/6530, 12-13=-5852/7537, 11-12=-5852/7537, 10-11=-5852/7537

WEBS 5-16=-550/818, 6-14=-579/821, 5-14=-358/370, 4-16=-1632/1352, 7-14=-1627/1348, 4-17=-183/460, 7-13=-183/456, 2-17=-1095/925, 9-13=-1097/932

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 4-2-10, Interior (1) 4-2-10 to 19-0-0, Exterior(2E) 19-0-0 to 23-2-0, Exterior(2R) 23-2-0 to 29-1-9, Interior (1) 29-1-9 to 42-2-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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 3-06-00 tall by 2-00-00 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 1588 lb uplift at joint 1 and 1588 lb uplift at joint 10.
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	De la Concepcion-8965
J2602880	HG1	Hip Girder	2	2	RT00105462 Job Reference (optional)

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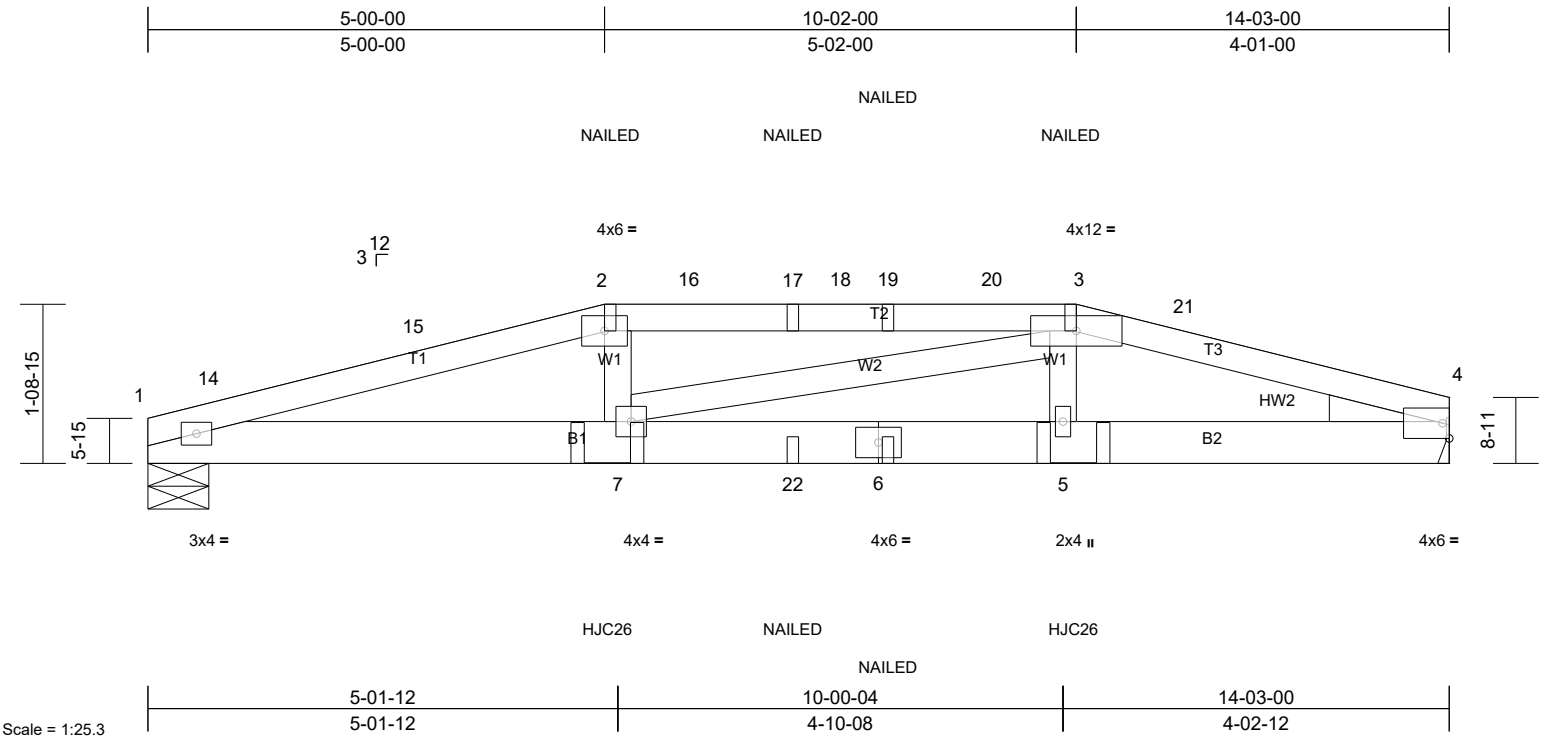

Scale = 1:25.3

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.79	Vert(LL)	-0.09	5-7	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.69	Vert(CT)	-0.17	5-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.08	Horz(CT)	0.03	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.17	5-7	>999	240	Weight: 134 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2 *Except* T2:2x4 SP No.1
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except* W2:2x4 SP No.2
WEDGE	Right: 2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-7-1 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 7-11-15 oc bracing.

REACTIONS (lb/size) 1=1410/8-00, (min. 1-08), 4=1464/ Mechanical
Max Horiz 1=69 (LC 12)
Max Uplift 1=-1154 (LC 8), 4=-1199 (LC 9)

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

TOP CHORD 1-14=-1784/1690, 1-14=-1765/1691, 1-15=-4296/4133, 2-15=-4254/4138, 2-16=-4167/4109, 16-17=-4167/4109, 17-18=-4167/4109, 18-19=-4167/4109, 19-20=-4167/4109, 3-20=-4167/4109, 3-21=-3622/3570, 4-21=-3699/3561

BOT CHORD 1-7=-3930/4126, 7-22=-3354/3548, 6-22=-3354/3548, 5-6=-3354/3548, 4-5=-3356/3532

WEBS 2-7=-231/394, 3-7=-660/760

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x4 - 1 row at 9-00 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 9-00 oc.
   Web connected as follows: 2x4 - 1 row at 2-00 oc, Except member 3-7 2x4 - 1 row at 9-00 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 5-0-0, Exterior(2R) 5-0-0 to 9-2-15, Interior (1) 9-2-15 to 10-2-0, Exterior(2E) 10-2-0 to 14-3-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1154 lb uplift at joint 1 and 1199 lb uplift at joint 4.
11) Use MiTek HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 5-1-4 oc max. starting at 5-0-6 from the left end to 10-1-10 to connect truss(es) J5 (1 ply 2x4 SP), CJ5 (1 ply 2x4 SP), J5 (1 ply 2x4 SP), CJ5A (1 ply 2x4 SP) to front face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (lb/ft)
   Vert: 1-2=-90, 2-3=-90, 3-4=-90, 8-11=-20
   Concentrated Loads (lb)

Continued on page 2

Vert: 2=-115, 3=-115, 6=-47, 7=-420, 5=-334, 17=-115, 19=-115, 22=-47

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965	
J2602880	HG2	Hip Girder	2	**2**	Job Reference (optional)	RT00105463

Royal Truss,Medley,FL — Run: 25.30 S Oct 16 2025 Print: 25.3.0 S Oct 16 2025 MiTek Industries, Inc. Tue Mar 10 14:11:39 — Page: 1

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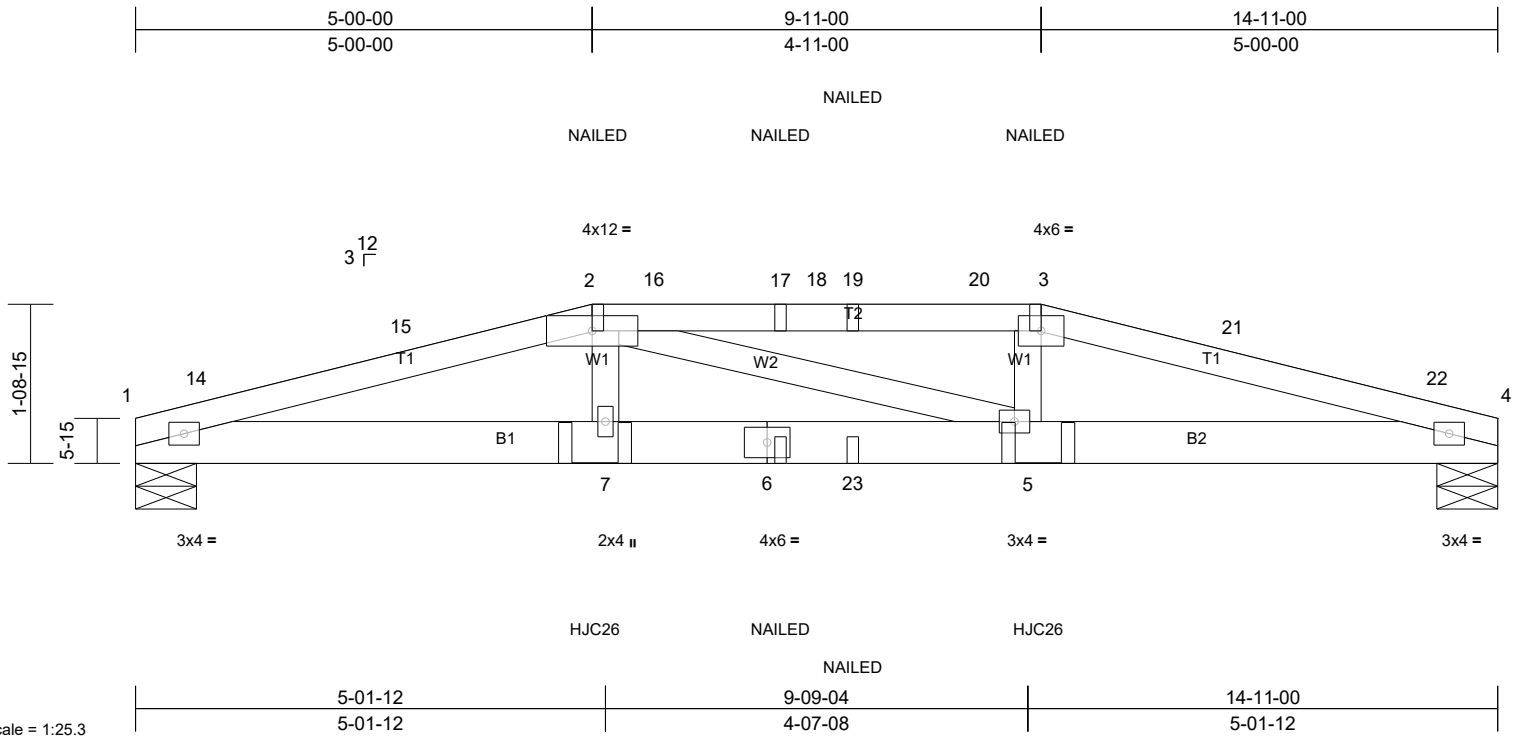

Scale = 1:25.3

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	1.00	Vert(LL)	-0.10	5-7	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.54	Vert(CT)	-0.18	5-7	>978	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.09	Horz(CT)	0.03	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.18	5-7	>994	240	Weight: 135 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 or 4-6-12 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 7-6-14 oc bracing.

REACTIONS (lb/size) 1=1517/8-00, (min. 1-08), 4=1516/8-00, (min. 1-08)
Max Horiz 1=56 (LC 29)
Max Uplift 1=-1237 (LC 8), 4=-1236 (LC 9)

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

TOP CHORD 1-14=-1937/1813, 1-14=-1919/1813, 1-15=-4679/4436, 2-15=-4637/4441, 2-16=-4504/4364, 16-17=-4504/4364, 17-18=-4504/4364, 18-19=-4504/4364, 19-20=-4504/4364, 3-20=-4504/4364, 3-21=-4590/4394, 4-21=-4632/4389, 4-22=-1909/1804, 4-22=-1928/1803

BOT CHORD 1-7=-4200/4497, 6-7=-4236/4551, 6-23=-4236/4551, 5-23=-4236/4551, 4-5=-4149/4452

WEBS 2-7=-342/525, 3-5=-329/495

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x4 - 1 row at 9-00 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 9-00 oc.
   Web connected as follows: 2x4 - 1 row at 2-00 oc, Except member 2-5 2x4 - 1 row at 9-00 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 5-0-0, Exterior(2R) 5-0-0 to 9-2-15, Interior (1) 9-2-15 to 9-11-0, Exterior(2R) 9-11-0 to 14-1-15, Interior (1) 14-1-15 to 14-11-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1237 lb uplift at joint 1 and 1236 lb uplift at joint 4.
10) Use MiTek HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 4-10-4 oc max. starting at 5-0-6 from the left end to 9-10-10 to connect truss(es) J5 (1 ply 2x4 SP), CJ5 (1 ply 2x4 SP), J5 (1 ply 2x4 SP), CJ5 (1 ply 2x4 SP) to front face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (lb/ft)
   Vert: 1-2=-90, 2-3=-90, 3-4=-90, 8-11=-20
   Concentrated Loads (lb)
   Vert: 2=-115, 3=-115, 6=-47, 7=-420, 5=-420, 17=-115, 19=-115, 23=-47

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	HG2	Hip Girder	2	**2**	RT00105463
					Job Reference (optional)

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965	
J2602880	HG3	Hip Girder	2	**2**	Job Reference (optional)	RT00105464

Royal Truss,Medley,FL Run: 25.30 S Oct 16 2025 Print: 25.3.0 S Oct 16 2025 MiTek Industries, Inc. Tue Mar 10 14:11:39 Page: 1
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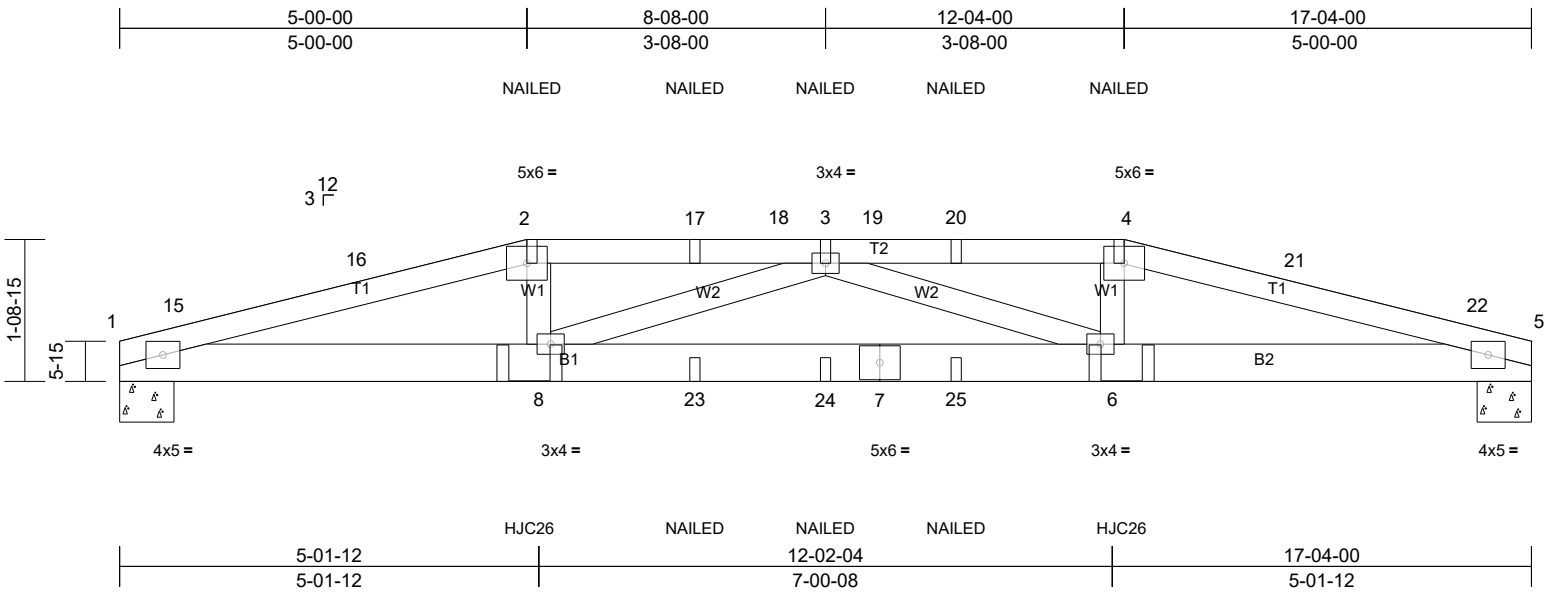

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Loading	(psf)	**Spacing**	2-00-00	**CSI**		**DEFL**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.74	Vert(LL)	-0.16	6-8	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.72	Vert(CT)	-0.29	6-8	>707	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.11	Horz(CT)	0.04	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.28	6-8	>738	240	Weight: 161 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 5-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-5-13 oc bracing.

REACTIONS (lb/size) 1=1731/8-00, (min. 1-08), 5=1731/8-00, (min. 1-08)
Max Horiz 1=-56 (LC 30)
Max Uplift 1=-1413 (LC 8), 5=-1412 (LC 9)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-2213/1985, 1-15=-2195/1985, 1-16=-5434/4873, 2-16=-5381/4878, 2-17=-5313/4857, 17-18=-5313/4857, 3-18=-5313/4857, 3-19=-5313/4857, 19-20=-5313/4857, 4-20=-5313/4857, 4-21=-5381/4878, 5-21=-5434/4873, 5-22=-2195/1985, 5-22=-2213/1985
BOT CHORD 1-8=-4621/5219, 8-23=-5593/6148, 23-24=-5593/6148, 7-24=-5593/6148, 7-25=-5593/6148, 6-25=-5593/6148, 5-6=-4615/5219
WEBS 2-8=-673/888, 4-6=-673/888, 3-6=-1033/1018, 3-8=-1033/1019

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 9-00 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 9-00 oc.
Web connected as follows: 2x4 - 1 row at 2-00 oc, Except member 3-6 2x4 - 1 row at 9-00 oc, Except member 3-8 2x4 - 1 row at 9-00 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 5-0-0, Exterior(2R) 5-0-0 to 9-2-15, Interior (1) 9-2-15 to 12-4-0, Exterior(2R) 12-4-0 to 16-6-15, Interior (1) 16-6-15 to 17-4-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1413 lb uplift at joint 1 and 1412 lb uplift at joint 5.
10) Use MiTek HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 7-3-4 oc max. starting at 5-0-6 from the left end to 12-3-10 to connect truss(es) J5 (1 ply 2x4 SP), CJ5 (1 ply 2x4 SP), J5 (1 ply 2x4 SP), CJ5 (1 ply 2x4 SP) to front face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=-90, 2-4=-90, 4-5=-90, 9-12=-20
Concentrated Loads (lb)

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	HG3	Hip Girder	2	**2**	RT00105464
					Job Reference (optional)

Vert: 2=-115, 4=-115, 8=-420, 6=-420, 3=-115, 17=-115, 20=-115, 23=-47, 24=-47, 25=-47

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965	
J2602880	HG4	Hip Girder	2	2	Job Reference (optional)	RT00105465

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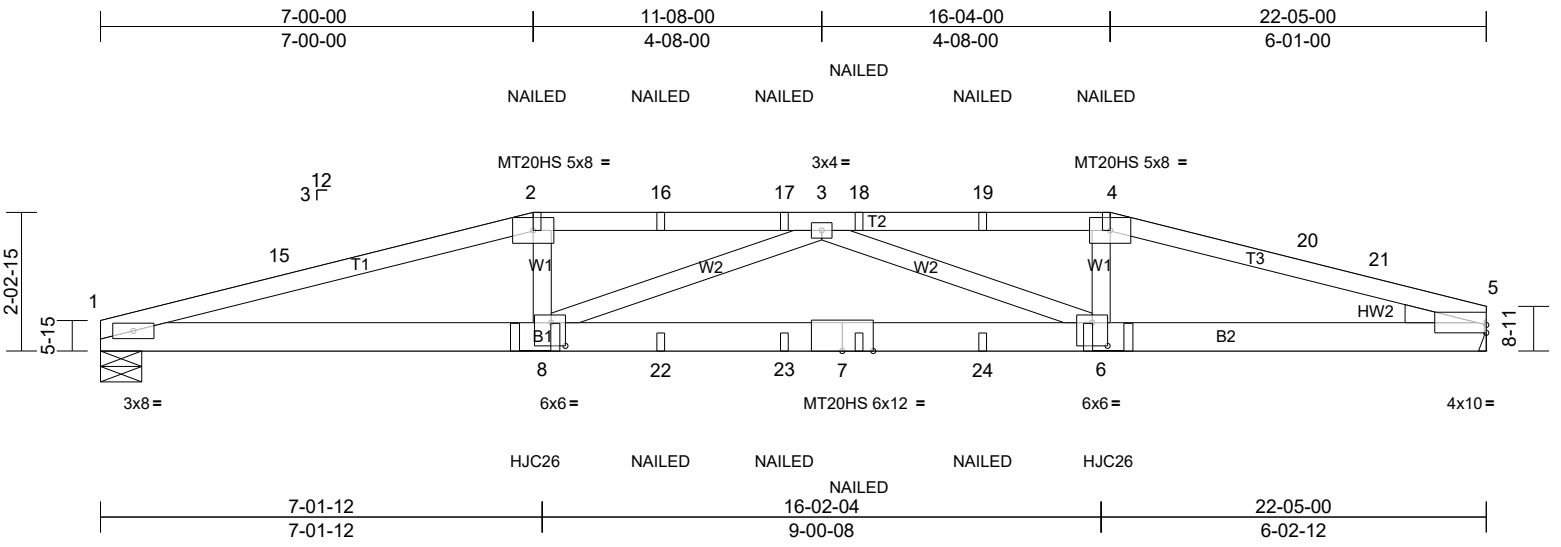

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Plate Offsets (X, Y): [5:Edge,1-08], [6:3-00,4-08], [8:2-12,4-08]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.66	Vert(LL)	-0.33	6-8	>818	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.59	Vert(CT)	-0.62	6-8	>434	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.20	Horz(CT)	0.08	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.59	6-8	>454	240	Weight: 213 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP 2400F 2.0E
BOT CHORD	2x6 SP 2400F 2.0E
WEBS	2x4 SP No.2
WEDGE	Right: 2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-3-14 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 7-5-6 oc bracing.

REACTIONS (lb/size) 1=2685/8-00, (min. 1-08), 5=2802/ Mechanical
Max Horiz 1=92 (LC 12)
Max Uplift 1=-2146 (LC 8), 5=-2239 (LC 9)

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

TOP CHORD 1-15=-9231/7657, 2-15=-9148/7668, 2-16=-9016/7615, 16-17=-9016/7615, 3-17=-9016/7615, 3-18=-8110/6855, 18-19=-8110/6855, 4-19=-8110/6855, 4-20=-8224/6918, 20-21=-8291/6909, 5-21=-8328/6907

BOT CHORD 1-8=-7331/8873, 8-22=-7819/9254, 22-23=-7819/9254, 7-23=-7819/9254, 7-24=-7819/9254, 6-24=-7819/9254, 5-6=-6576/7977

WEBS 2-8=-1375/1854, 4-6=-1291/1757, 3-6=-1391/1319, 3-8=-478/572

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 9-00 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 9-00 oc.
Web connected as follows: 2x4 - 2 rows staggered at 5-00 oc, Except member 3-6 2x4 - 1 row at 9-00 oc, Except member 3-8 2x4 - 1 row at 9-00 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 7-0-0, Exterior(2R) 7-0-0 to 11-2-15, Interior (1) 11-2-15 to 16-4-0, Exterior(2R) 16-4-0 to 20-6-15, Interior (1) 20-6-15 to 22-5-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2146 lb uplift at joint 1 and 2239 lb uplift at joint 5.
12) Use MiTek HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 9-3-4 oc max. starting at 7-0-6 from the left end to 16-3-10 to connect truss(es) J7A (1 ply 2x4 SP), CJ7A (1 ply 2x4 SP), J7A (1 ply 2x4 SP), CJ7A (1 ply 2x4 SP) to front face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.
14) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.33, Plate Increase=1.33

Continued on page 2

Uniform Loads (lb/ft)

Vert: 1-2=-90, 2-4=-90, 4-5=-90, 9-12=-20

Concentrated Loads (lb)

Vert: 2=-20, 4=-20, 7=-250, 8=-950, 6=-950, 16=-20, 17=-20, 18=-20, 19=-20, 22=-250, 23=-250, 24=-250

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965	RT00105466
J2602880	HG5	Hip Girder	2	2	Job Reference (optional)	

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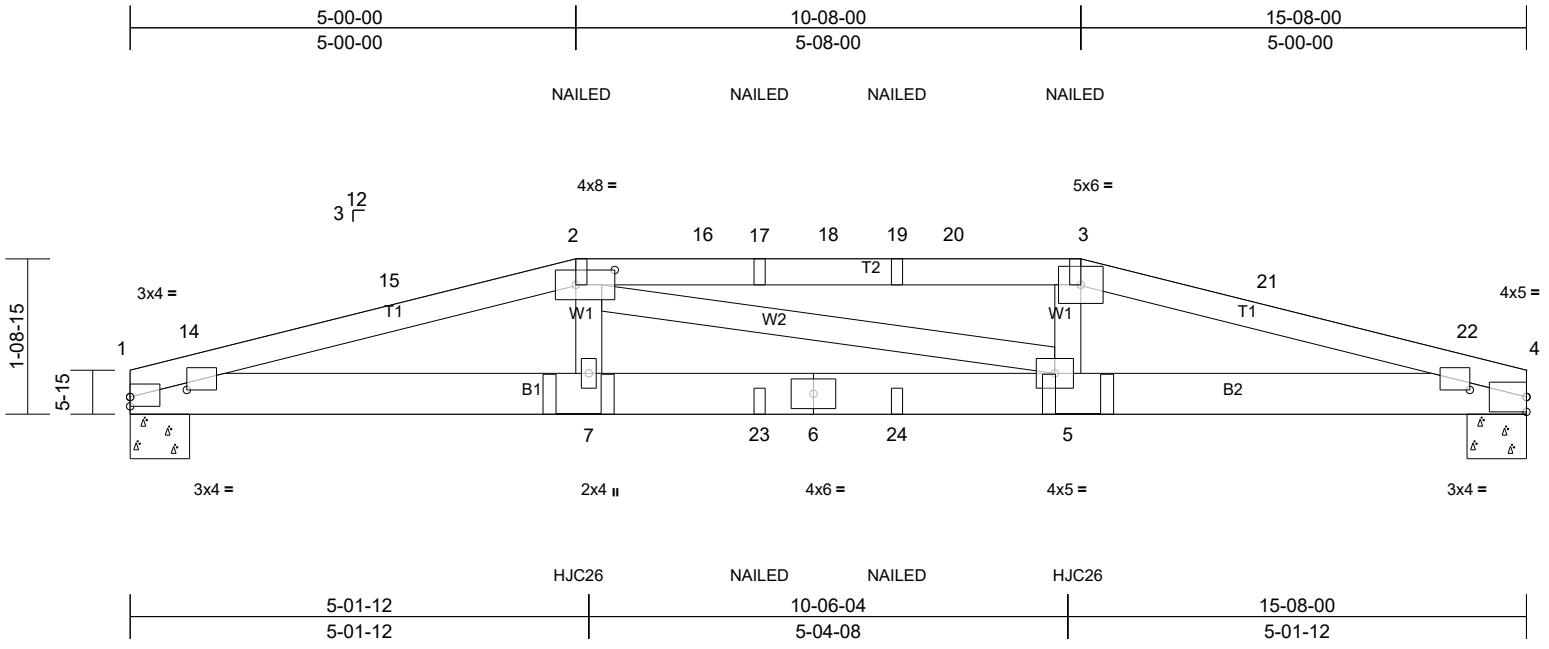

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Plate Offsets (X, Y): [1:7-10,0-15], [1:Edge,1-04], [2:5-04,2-00], [4:7-10,0-15]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.67	Vert(LL)	-0.11	5-7	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.56	Vert(CT)	-0.19	5-7	>969	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.03	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.19	5-7	>989	240	Weight: 142 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2 *Except* T2:2x4 SP 2400F 2.0E
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-8-12 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 7-5-7 oc bracing.

REACTIONS (lb/size) 1=1558/8-00, (min. 1-08), 4=1558/8-00, (min. 1-08)
Max Horiz 1=-56 (LC 13)
Max Uplift 1=-1269 (LC 8), 4=-1269 (LC 9)

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

TOP CHORD 1-14=-2002/1864, 1-14=-1983/1864, 1-15=-4844/4549, 2-15=-4767/4553, 2-16=-4704/4508, 16-17=-4704/4508, 17-18=-4704/4508, 18-19=-4704/4508, 19-20=-4704/4508, 3-20=-4704/4508, 3-21=-4759/4542, 4-21=-4837/4537, 4-22=-1982/1862, 4-22=-2000/1861

BOT CHORD 1-7=-4313/4658, 7-23=-4347/4712, 6-23=-4347/4712, 6-24=-4347/4712, 5-24=-4347/4712, 4-5=-4297/4651

WEBS 2-7=-318/517, 3-5=-320/507

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x4 - 1 row at 9-00 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 9-00 oc.
   Web connected as follows: 2x4 - 1 row at 2-00 oc, Except member 2-5 2x4 - 1 row at 9-00 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 5-0-0, Exterior(2R) 5-0-0 to 9-2-15, Interior (1) 9-2-15 to 10-8-0, Exterior(2R) 10-8-0 to 14-10-15, Interior (1) 14-10-15 to 15-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1269 lb uplift at joint 1 and 1269 lb uplift at joint 4.
10) Use MiTek HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 5-7-4 oc max. starting at 5-0-6 from the left end to 10-7-10 to connect truss(es) J5 (1 ply 2x4 SP), CJ5 (1 ply 2x4 SP), J5 (1 ply 2x4 SP), CJ5 (1 ply 2x4 SP) to front face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (lb/ft)
   Vert: 1-2=-90, 2-3=-90, 3-4=-90, 8-11=-20

Continued on page 2

Concentrated Loads (lb)

Vert: 2=-115, 3=-115, 7=-420, 5=-420, 17=-115, 19=-115, 23=-47, 24=-47

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	HG6	Hip Girder	2	2	RT00105467 Job Reference (optional)

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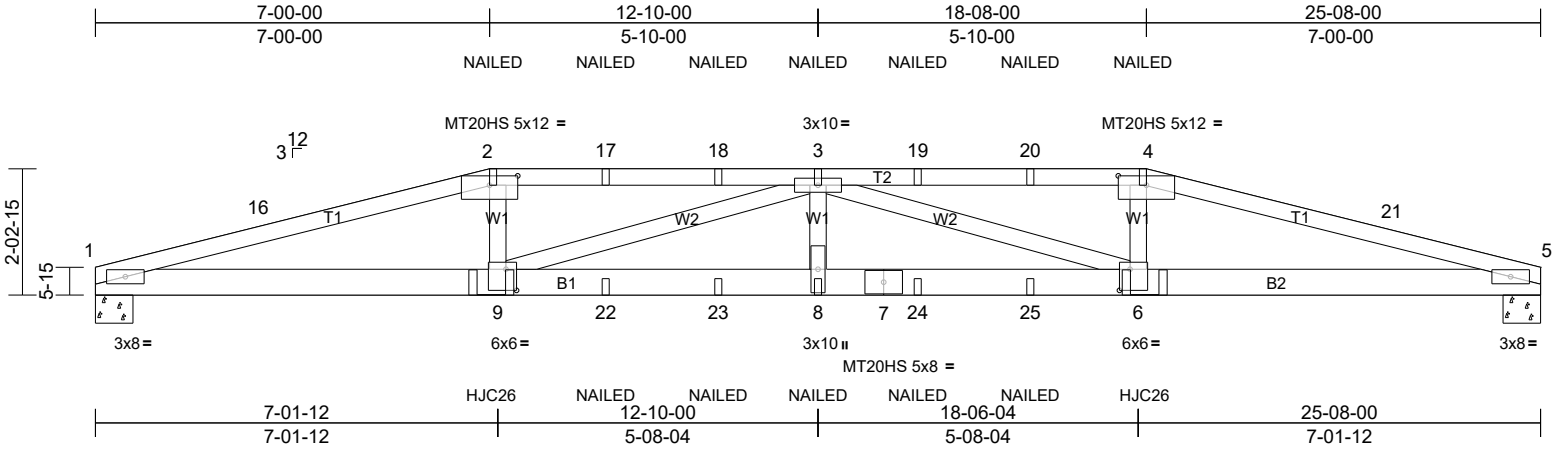

Scale = 1:41.1

Plate Offsets (X, Y): [2:6-00,2-00], [4:6-00,2-00], [6:2-04,4-08], [9:2-04,4-08]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.51	Vert(LL)	-0.33	8	>942	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.46	Vert(CT)	-0.59	8	>519	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.09	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.58	8	>531	240	Weight: 245 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-2-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-9-12 oc bracing.

REACTIONS (lb/size) 1=3051/8-00, (min. 1-08), 5=3051/8-00, (min. 1-08)
Max Horiz 1=78 (LC 29)
Max Uplift 1=-2434 (LC 8), 5=-2434 (LC 9)

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

TOP CHORD 1-16=-10247/8439, 2-16=-10170/8452, 2-17=-10020/8379, 17-18=-10020/8379, 3-18=-10020/8379, 3-19=-10019/8392, 19-20=-10019/8392, 4-20=-10019/8392, 4-21=-10170/8460, 5-21=-10247/8447

BOT CHORD 1-9=-8070/9865, 9-22=-10287/12589, 22-23=-10287/12589, 8-23=-10287/12589, 7-8=-10287/12589, 7-24=-10287/12589, 24-25=-10287/12589, 6-25=-10287/12589, 5-6=-8079/9865

WEBS 2-9=-1490/1995, 3-8=-679/1058, 4-6=-1489/1995, 3-9=-2947/2386, 3-6=-2947/2385

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x4 - 1 row at 9-00 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 9-00 oc.
   Web connected as follows: 2x4 - 1 row at 9-00 oc, Except member 2-9 2x4 - 2 rows staggered at 5-00 oc, Except member 4-6 2x4 - 2 rows staggered at 5-00 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 7-0-0, Exterior(2R) 7-0-0 to 11-2-15, Interior (1) 11-2-15 to 18-8-0, Exterior(2R) 18-8-0 to 22-10-15, Interior (1) 22-10-15 to 25-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
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 3-06-00 tall by 2-00-00 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 2434 lb uplift at joint 1 and 2434 lb uplift at joint 5.
11) Use MiTek HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 11-7-4 oc max. starting at 7-0-6 from the left end to 18-7-10 to connect truss(es) J7 (1 ply 2x4 SP), CJ7 (1 ply 2x4 SP), J7 (1 ply 2x4 SP), CJ7 (1 ply 2x4 SP) to front face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (lb/ft)
   Vert: 1-2=-90, 2-4=-90, 4-5=-90, 10-13=-20

Continued on page 2

Concentrated Loads (lb)

Vert: 2=-20, 4=-20, 9=-944, 8=-250, 3=-20, 6=-944, 17=-20, 18=-20, 19=-20, 20=-20, 22=-250, 23=-250, 24=-250, 25=-250

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	HG7	Roof Special Girder	2	3	RT00105468 Job Reference (optional)

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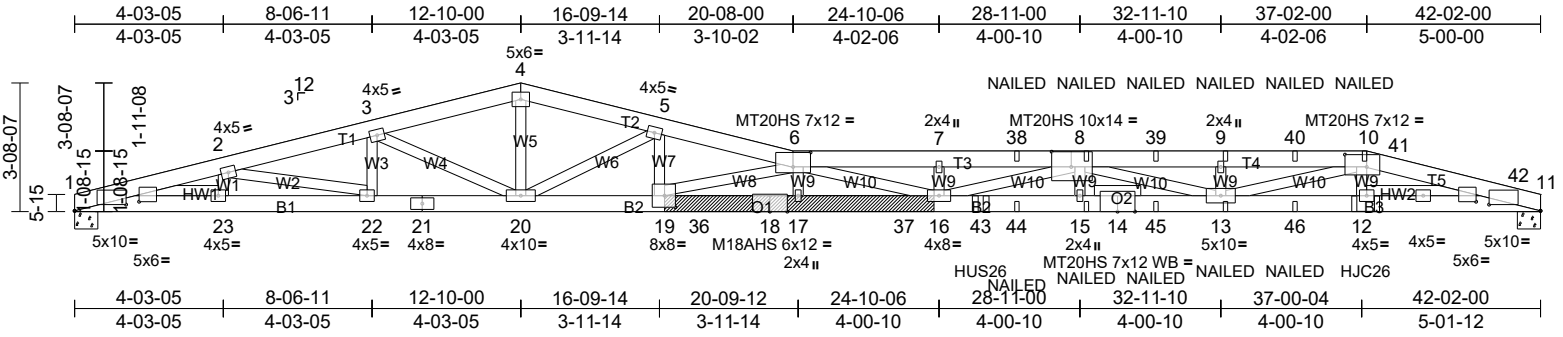

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Plate Offsets (X, Y): [1:1-05-12,2-03], [1:1-10-04,3-03], [6:6-00,5-00], [8:6-12,5-04], [10:7-08,4-04], [11:1-05-12,2-03], [11:1-10-04,3-03], [19:3-12,4-00]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.54	Vert(LL)	-1.05	16-17	>481	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.73	Vert(CT)	-1.91	16-17	>265	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.37	Horz(CT)	0.18	11	n/a	n/a	M18AHS	186/179
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	1.75	16-17	>290	240	Weight: 875 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP 2400F 2.0E
BOT CHORD	2x6 SP 2400F 2.0E
WEBS	2x4 SP 2400F 2.0E
OTHERS	2x4 SP No.2
LBR SCAB	19-16 SP 2400F 2.0E one side
SLIDER	Left 2x4 SP No.2 -- 2-04-09, Right 2x4 SP No.2 -- 3-03-00

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, Except: 7-11-2 oc bracing: 15-16 8-2-9 oc bracing: 13-15.

REACTIONS (lb/size) 1=3156/8-00, (min. 1-08), 11=4312/8-00, (min. 1-08)
Max Horiz 1=-143 (LC 30)
Max Uplift 1=-2056 (LC 8), 11=-3324 (LC 9)

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

TOP CHORD 1-2=-9819/7595, 2-3=-10386/8017, 3-4=-9766/7606, 4-5=-9761/7596, 5-6=-17106/13167, 6-7=-32652/25038, 7-38=-32652/25038, 8-38=-32652/25038, 8-39=-23155/18221, 9-39=-23155/18221, 9-40=-23155/18221, 10-40=-23155/18221, 10-41=-14680/11789, 11-41=-14704/11786, 11-42=-14782/11784, 11-42=-14791/11779

BOT CHORD 1-23=-6414/8315, 22-23=-7229/9425, 21-22=-7617/10067, 20-21=-7617/10067, 19-20=-12364/16269, 19-36=-22659/29751, 18-36=-22659/29751, 17-18=-22659/29751, 17-37=-22584/29667, 16-37=-22584/29667, 16-43=-22994/29873, 43-44=-22994/29873, 15-44=-22994/29873, 14-15=-22994/29873, 14-45=-22994/29873, 13-45=-22994/29873, 13-46=-11336/14281, 12-46=-11336/14281, 11-12=-9693/12151

WEBS 6-17=-752/662, 10-12=-209/308, 4-20=-3226/4271, 5-19=-3827/5131, 5-20=-7823/6072, 6-19=-13920/10669, 2-23=-398/379, 3-20=-783/809, 2-22=-624/860, 7-16=-280/339, 8-15=-337/633, 9-13=-557/613, 6-16=-2774/3427, 8-16=-2044/2915, 8-13=-7048/5244, 10-13=-7036/9281

NOTES

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 9-00 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 6-00 oc.
Web connected as follows: 2x4 - 1 row at 9-00 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Attached 7-9-0 scab 16 to 19, front face(s) 2x6 SP 2400F 2.0E with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 0-2-12 from end at joint 19, nail 2 row(s) at 7" o.c. for 4-10-2.
4) Unbalanced roof live loads have been considered for this design.
5) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 4-3-5, Interior (1) 4-3-5 to 12-10-0, Exterior(2R) 12-10-0 to 16-9-14, Interior (1) 16-9-14 to 37-2-0, Exterior(2R) 37-2-0 to 41-4-10, Interior (1) 41-4-10 to 42-2-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
6) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

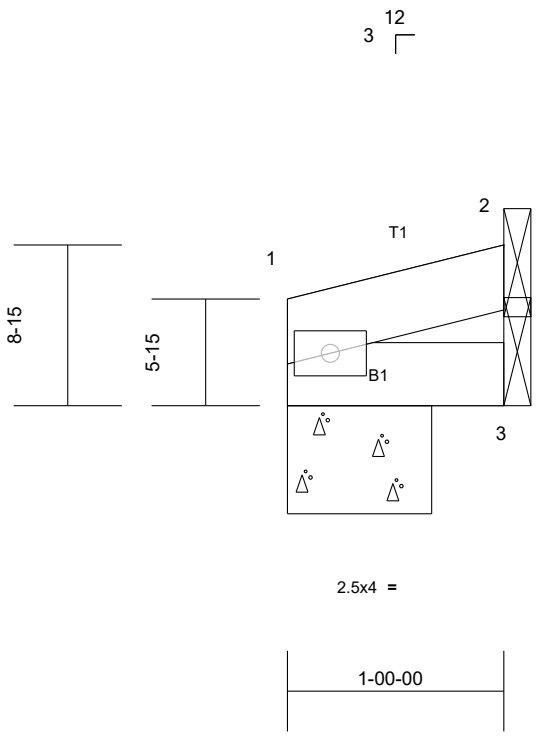
Continued on page 2

10) * 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.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2056 lb uplift at joint 1 and 3324 lb uplift at joint 11.
12) Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent at 26-0-12 from the left end to connect truss(es) TG1 (1 ply 2x6 SP) to back face of bottom chord.
13) Use MiTek HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent at 37-1-10 from the left end to connect truss(es) J5 (1 ply 2x4 SP), CJ5 (1 ply 2x4 SP) to back face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.
15) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (lb/ft)
   Vert: 1-4=-90, 4-6=-90, 6-10=-90, 10-11=-90, 24-30=-20
   Concentrated Loads (lb)
   Vert: 10=-115, 12=-420, 15=-47, 8=-115, 13=-47, 9=-115, 38=-115, 39=-115, 40=-115, 43=-1487, 44=-47, 45=-47, 46=-47

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	J1	Jack-Open	46	1	RT00105469 Job Reference (optional)



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Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 3 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS (lb/size) 1=54/8-00, (min. 1-08), 2=35/ Mechanical, 3=19/ Mechanical
Max Horiz 1=25 (LC 8)
Max Uplift 1=-33 (LC 8), 2=-38 (LC 8), 3=-12 (LC 8)

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

NOTES
1) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 1, 38 lb uplift at joint 2 and 12 lb uplift at joint 3.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	J1A	Jack-Open	4	1	RT00105470 Job Reference (optional)

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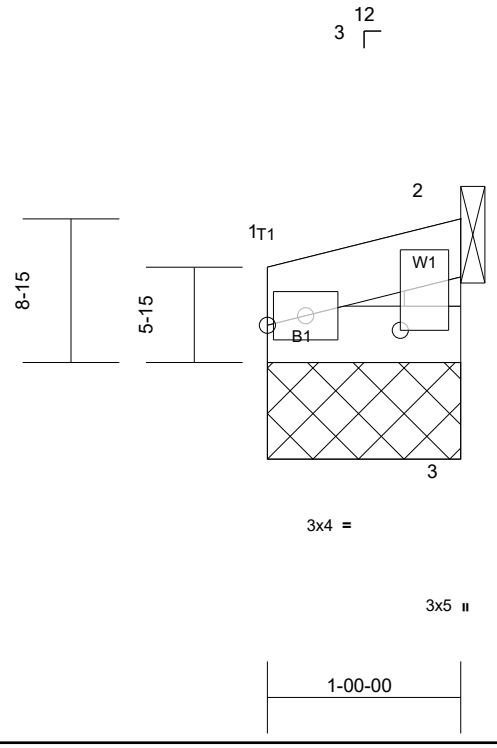

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Plate Offsets (X, Y): [3:0-05,8-04]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 3 lb	FT = 20%

LUMBER

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

REACTIONS (lb/size) 1=47/1-00-00, (min. 1-08), 2=30/ Mechanical, 3=17/1-00-00, (min. 1-08)
Max Horiz 1=22 (LC 8)
Max Uplift 1=-28 (LC 8), 2=-32 (LC 8), 3=-11 (LC 8)

BRACING

TOP CHORD	Structural wood sheathing directly applied or 1-0-0 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.

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

NOTES

1) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) 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) 1, 3, 2, 1.
7) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	J3	Jack-Open	46	1	RT00105471 Job Reference (optional)

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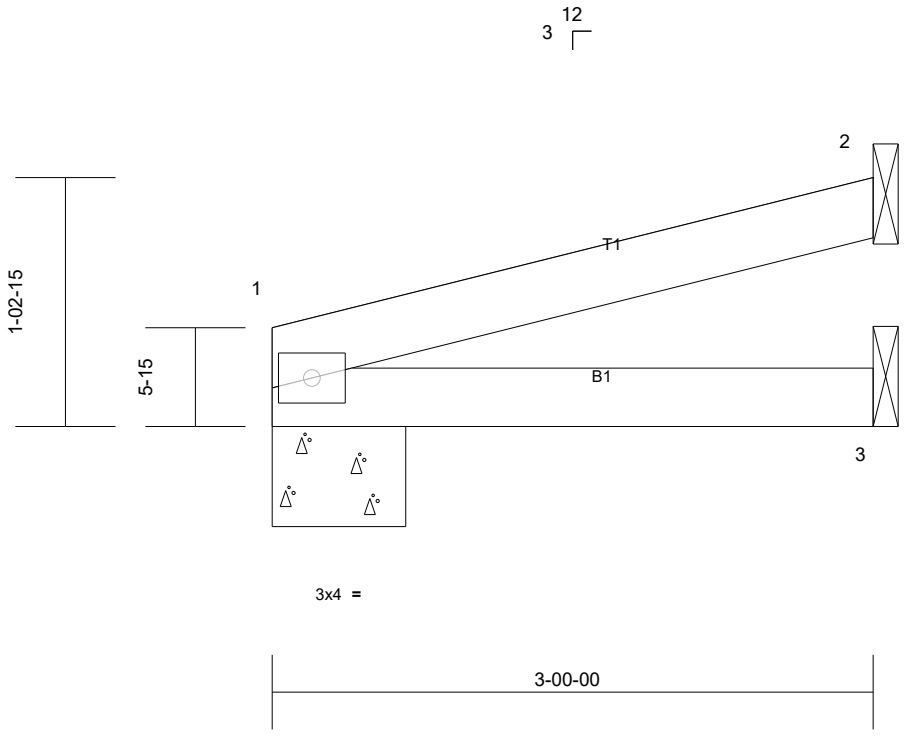

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Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.36	Vert(LL)	0.00	3-6	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.35	Vert(CT)	-0.01	3-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	1	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP		Wind(LL)	0.02	3-6	>999	240	Weight: 9 lb	FT = 20%

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

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

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

REACTIONS (lb/size) 1=162/8-00, (min. 1-08), 2=114/ Mechanical, 3=47/ Mechanical
Max Horiz 1=76 (LC 8)
Max Uplift 1=-108 (LC 8), 2=-121 (LC 8), 3=-15 (LC 8)
Max Grav 1=162 (LC 1), 2=114 (LC 1), 3=57 (LC 3)

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

NOTES
1) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 1, 121 lb uplift at joint 2 and 15 lb uplift at joint 3.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	J3A	Jack-Open	4	1	RT00105472 Job Reference (optional)

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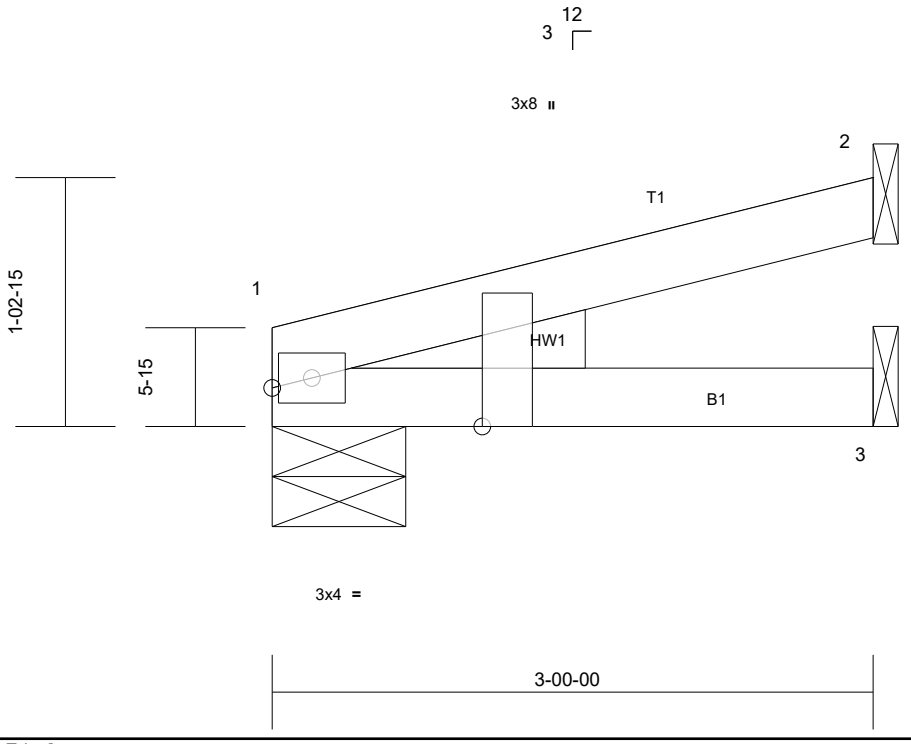

Scale = 1:11.6

Plate Offsets (X, Y): [1:0-06,0-14], [1:2-05,Edge]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.21	Vert(LL)	0.00	6	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.30	Vert(CT)	-0.01	6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	1	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP		Wind(LL)	0.01	3-6	>999	240	Weight: 11 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 or 3-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS (lb/size) 1=162/8-00, (min. 1-08), 2=98/ Mechanical, 3=64/ Mechanical
Max Horiz 1=76 (LC 8)
Max Uplift 1=-108 (LC 8), 2=-96 (LC 8), 3=-41 (LC 8)

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

NOTES

1) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 96 lb uplift at joint 2, 41 lb uplift at joint 3 and 108 lb uplift at joint 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	J5	Jack-Open	58	1	RT00105473 Job Reference (optional)

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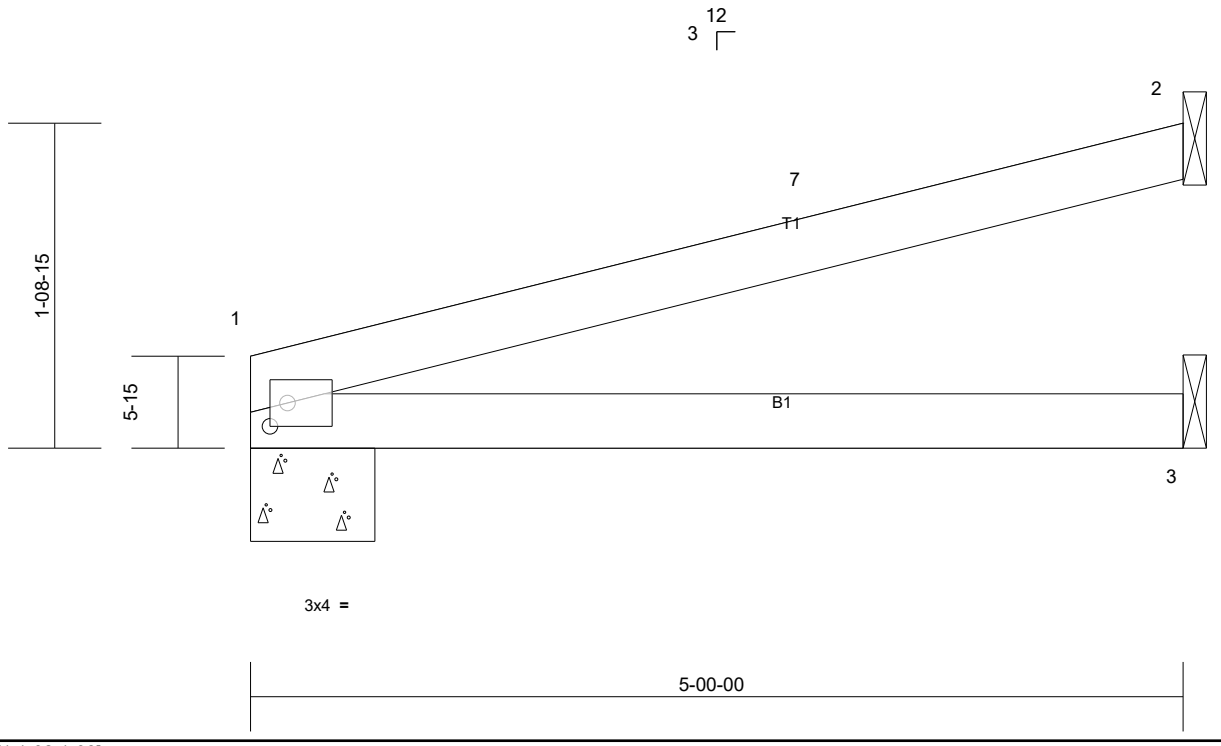

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Plate Offsets (X, Y): [1:1-02,1-08]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.50	Vert(LL)	-0.03	3-6	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.73	Vert(CT)	-0.06	3-6	>912	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	1	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.09	3-6	>697	240	Weight: 15 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2

REACTIONS (lb/size) 1=272/8-00, (min. 1-08), 2=205/ Mechanical, 3=67/ Mechanical
Max Horiz 1=127 (LC 8)
Max Uplift 1=-184 (LC 8), 2=-215 (LC 8), 3=-11 (LC 8)
Max Grav 1=272 (LC 1), 2=205 (LC 1), 3=90 (LC 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.

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 1-3=-372/165

NOTES
1) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 4-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 184 lb uplift at joint 1, 215 lb uplift at joint 2 and 11 lb uplift at joint 3.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	J5A	Jack-Open	4	1	RT00105474 Job Reference (optional)

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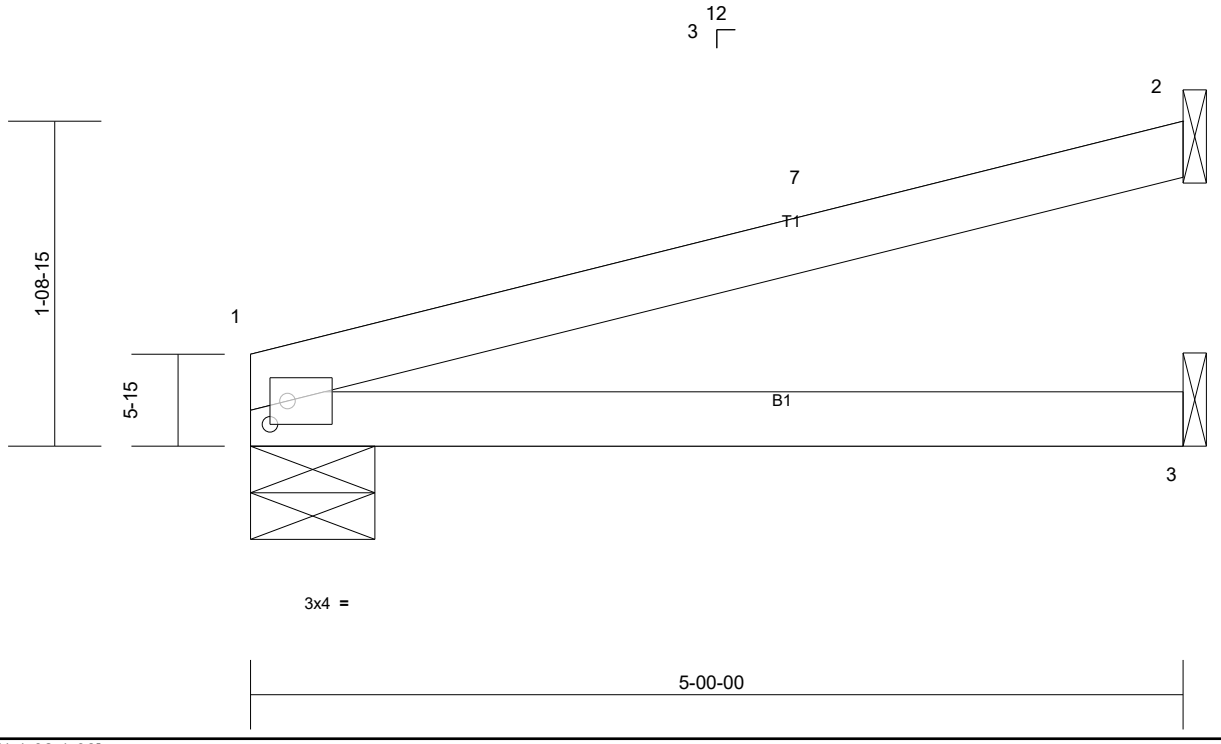

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Plate Offsets (X, Y): [1:1-02,1-08]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.50	Vert(LL)	-0.03	3-6	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.73	Vert(CT)	-0.06	3-6	>912	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	1	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.09	3-6	>697	240	Weight: 15 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2

REACTIONS (lb/size) 1=272/8-00, (min. 1-08), 2=205/ Mechanical, 3=67/ Mechanical
Max Horiz 1=127 (LC 8)
Max Uplift 1=-184 (LC 8), 2=-215 (LC 8), 3=-11 (LC 8)
Max Grav 1=272 (LC 1), 2=205 (LC 1), 3=90 (LC 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.

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 1-3=-372/165

NOTES
1) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 4-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 184 lb uplift at joint 1, 215 lb uplift at joint 2 and 11 lb uplift at joint 3.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965	RT00105475
J2602880	J7	Jack-Open	14	1	Job Reference (optional)	

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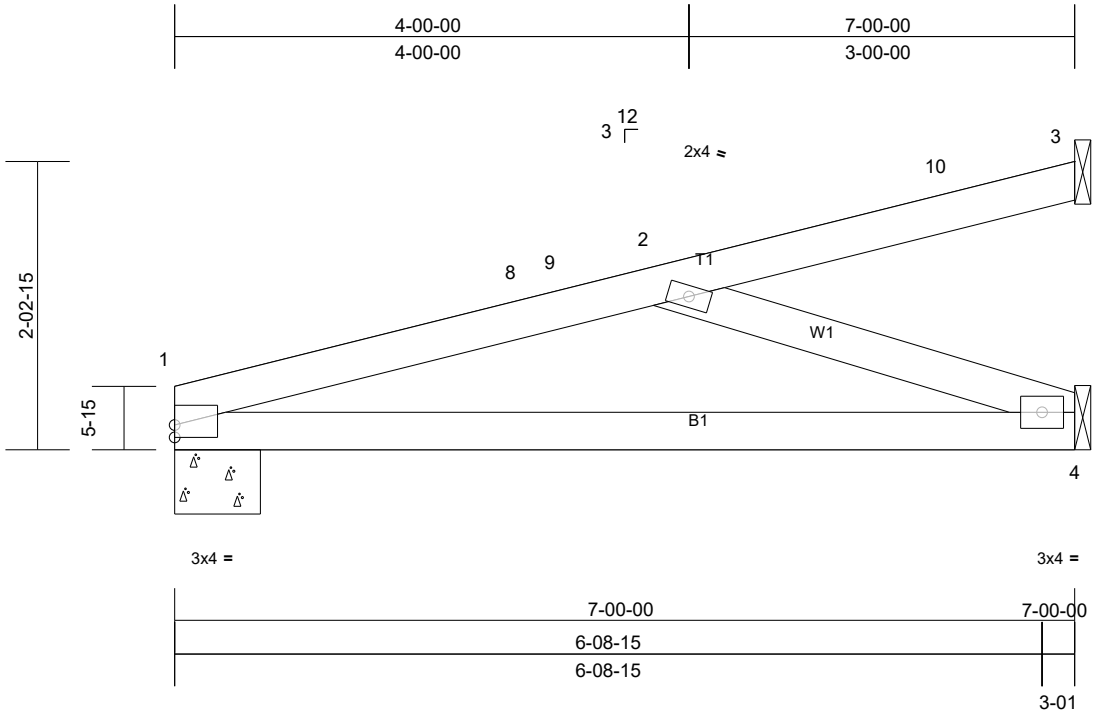

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Plate Offsets (X, Y): [1:Edge,1-02]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.47	Vert(LL)	-0.07	4-7	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.45	Vert(CT)	-0.14	4-7	>583	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.26	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.04	4-7	>999	240	Weight: 26 lb	FT = 20%

LUMBER

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

REACTIONS (lb/size) 1=384/8-00, (min. 1-08), 3=110/ Mechanical, 4=270/ Mechanical
Max Horiz 1=179 (LC 8)
Max Uplift 1=-263 (LC 8), 3=-133 (LC 8), 4=-181 (LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-657/948, 8-9=-614/949, 2-9=-608/952
BOT CHORD 1-4=-1156/690
WEBS 2-4=-730/1223

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.

NOTES
1) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 6-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 263 lb uplift at joint 1, 133 lb uplift at joint 3 and 181 lb uplift at joint 4.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	J7A	Jack-Open	12	1	RT00105476 Job Reference (optional)

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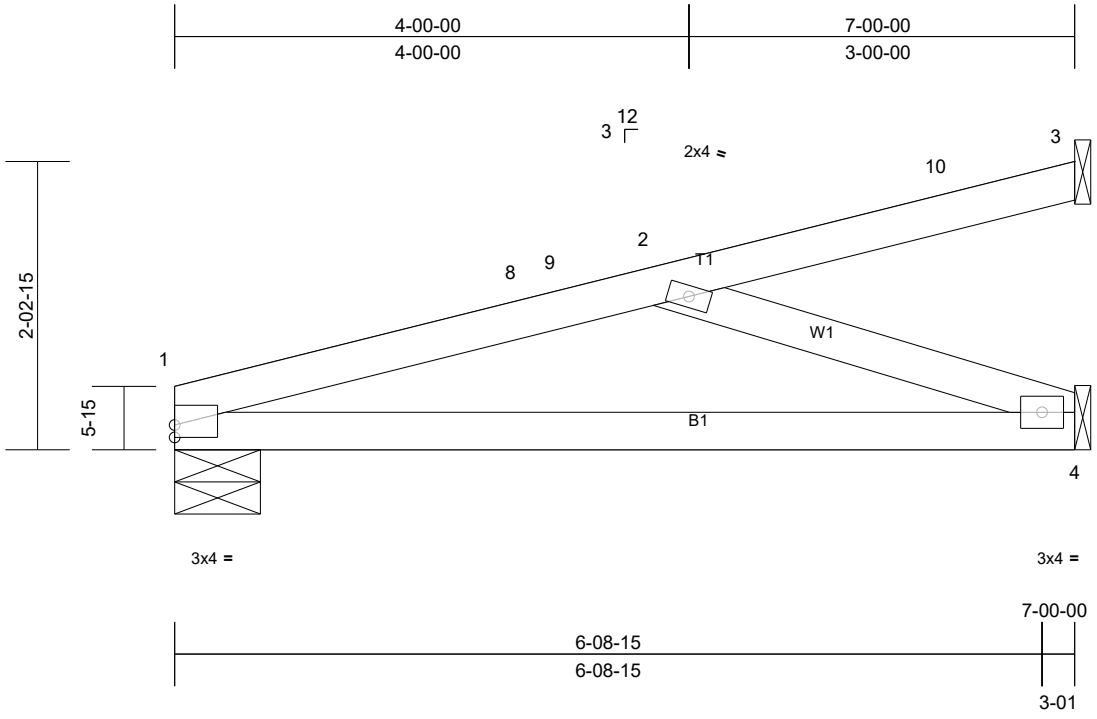

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Plate Offsets (X, Y): [1:Edge,1-02]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.47	Vert(LL)	-0.07	4-7	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.45	Vert(CT)	-0.14	4-7	>583	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.26	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.04	4-7	>999	240	Weight: 26 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.
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) 1=384/8-00, (min. 1-08), 3=110/ Mechanical, 4=270/ Mechanical
Max Horiz 1=179 (LC 8)
Max Uplift 1=-263 (LC 8), 3=-133 (LC 8), 4=-181 (LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-657/948, 8-9=-614/949, 2-9=-608/952
BOT CHORD 1-4=-1156/690
WEBS 2-4=-730/1223

NOTES
1) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 6-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 263 lb uplift at joint 1, 133 lb uplift at joint 3 and 181 lb uplift at joint 4.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	J21	Jack-Open	2	1	RT00105477 Job Reference (optional)

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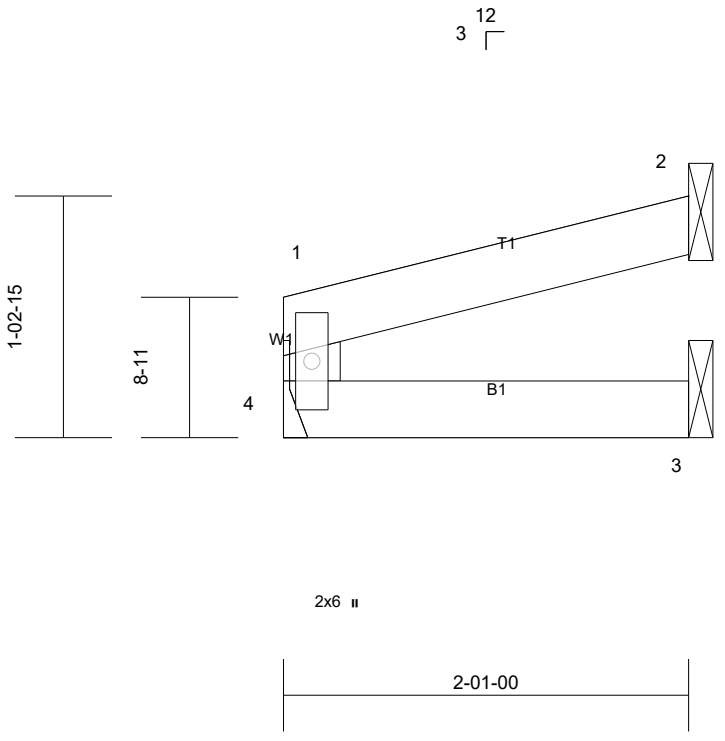

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Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.27	Vert(LL)	0.00	3-4	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.13	Vert(CT)	0.00	3-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MR		Wind(LL)	0.00	3-4	>999	240	Weight: 7 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 2-1-0 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 (lb/size) 2=78/ Mechanical, 3=25/ Mechanical, 4=103/ Mechanical
Max Horiz 4=48 (LC 8)
Max Uplift 2=-90 (LC 8), 3=-6 (LC 8), 4=-60 (LC 8)
Max Grav 2=78 (LC 1), 3=37 (LC 3), 4=103 (LC 1)

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

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2E) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 4, 90 lb uplift at joint 2 and 6 lb uplift at joint 3.
9) Non Standard bearing condition. Review required.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965	RT00105478
J2602880	T1	Common	8	1	Job Reference (optional)	

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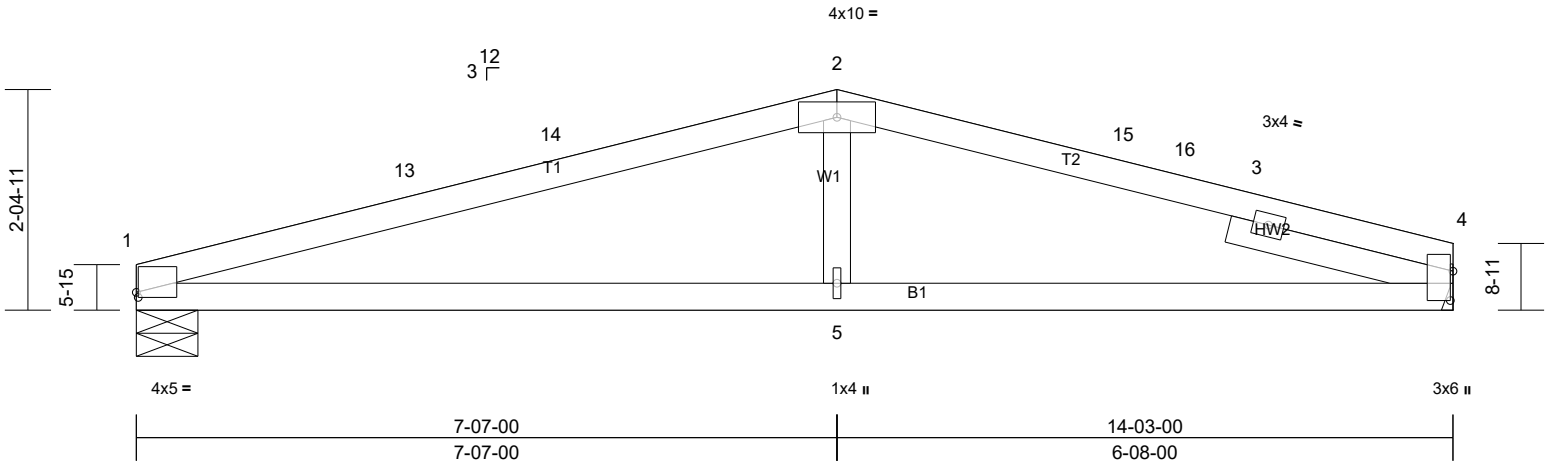

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Plate Offsets (X, Y): [1:0-04,0-10], [4:3-13,0-05]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.88	Vert(LL)	-0.13	5-8	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.68	Vert(CT)	-0.24	5-8	>715	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.04	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.19	5-8	>877	240	Weight: 50 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1 *Except* T2:2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Right 2x4 SP No.2 -- 2-06-00

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) 1=784/8-00, (min. 1-08), 4=784/ Mechanical
Max Horiz 1=98 (LC 12)
Max Uplift 1=-530 (LC 8), 4=-514 (LC 9)

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

TOP CHORD	1-13=-1621/1647, 13-14=-1543/1649, 2-14=-1529/1658, 2-15=-1495/1691, 15-16=-1548/1684, 3-16=-1562/1683, 3-4=-466/448
BOT CHORD	1-5=-1493/1497, 4-5=-1493/1497
WEBS	2-5=0/287

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 7-7-0, Exterior(2R) 7-7-0 to 10-7-0, Interior (1) 10-7-0 to 14-3-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 530 lb uplift at joint 1 and 514 lb uplift at joint 4.
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	De la Concepcion-8965
J2602880	T2	Common	3	1	RT00105479
					Job Reference (optional)

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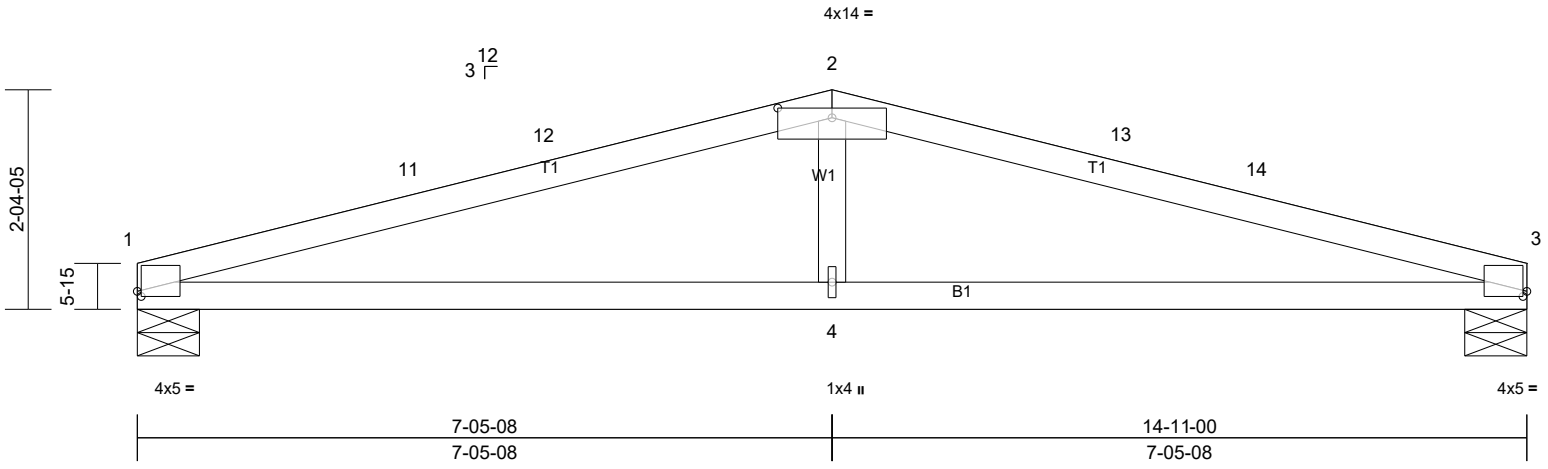

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Plate Offsets (X, Y): [1:0-08,0-10], [2:7-00,1-04], [3:0-08,0-10]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.78	Vert(LL)	-0.11	4-7	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.59	Vert(CT)	-0.20	4-7	>895	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.03	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.16	4-7	>999	240	Weight: 48 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.2
WEBS	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) 1=820/8-00, (min. 1-08), 3=820/8-00, (min. 1-08)
Max Horiz 1=83 (LC 12)
Max Uplift 1=-547 (LC 8), 3=-547 (LC 9)

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

TOP CHORD	1-11=-1820/1781, 11-12=-1745/1782, 2-12=-1732/1792, 2-13=-1732/1792, 13-14=-1745/1782, 3-14=-1820/1781
BOT CHORD	1-4=-1593/1693, 3-4=-1593/1693
WEBS	2-4=0/313

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 7-5-8, Exterior(2R) 7-5-8 to 10-5-8, Interior (1) 10-5-8 to 14-11-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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 3-06-00 tall by 2-00-00 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 547 lb uplift at joint 1 and 547 lb uplift at joint 3.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	T3	Common	10	1	RT00105480 Job Reference (optional)

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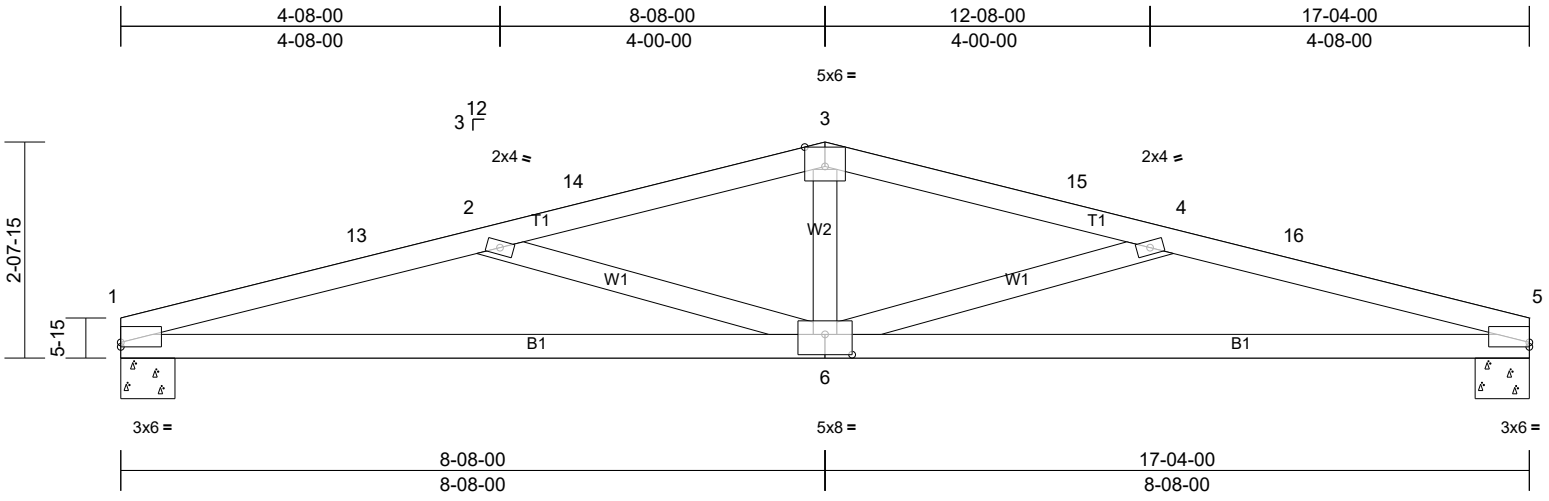

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Plate Offsets (X, Y): [1:Edge,0-10], [3:3-00,Edge], [5:Edge,0-10], [6:4-00,3-00]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.87	Vert(LL)	-0.13	6	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.73	Vert(CT)	-0.24	6-9	>863	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.06	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.19	6	>999	240	Weight: 68 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.
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) 1=953/8-00, (min. 1-08), 5=953/8-00, (min. 1-08)
Max Horiz 1=-97 (LC 13)
Max Uplift 1=-636 (LC 8), 5=-636 (LC 9)

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

TOP CHORD	1-13=-2508/2198, 2-13=-2451/2207, 2-14=-1921/1643, 3-14=-1889/1650, 3-15=-1889/1650, 4-15=-1921/1643, 4-16=-2451/2207, 5-16=-2508/2198
BOT CHORD	1-6=-2040/2380, 5-6=-2035/2380
WEBS	3-6=-273/482, 2-6=-652/681, 4-6=-652/684

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 8-8-0, Exterior(2R) 8-8-0 to 11-8-0, Interior (1) 11-8-0 to 17-4-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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 3-06-00 tall by 2-00-00 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 636 lb uplift at joint 1 and 636 lb uplift at joint 5.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	T4	Common	11	1	RT00105481 Job Reference (optional)

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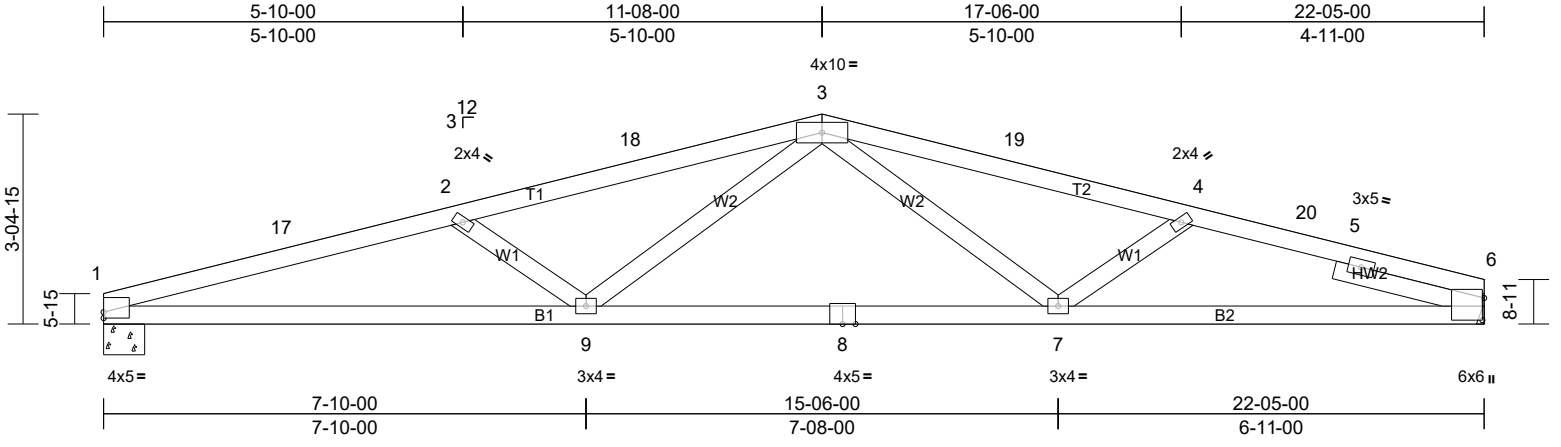

Scale = 1:37.6

Plate Offsets (X, Y): [1:Edge,1-02], [6:4-05,0-05]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.97	Vert(LL)	-0.24	7-9	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.83	Vert(CT)	-0.48	7-9	>562	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.09	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.34	7-9	>789	240	Weight: 93 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP 2400F 2.0E *Except* T2:2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
SLIDER	Right 2x4 SP No.2 -- 2-06-00

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) 1=1233/8-00, (min. 1-08), 6=1233/ Mechanical
Max Horiz 1=144 (LC 12)
Max Uplift 1=-830 (LC 8), 6=-814 (LC 9)

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

TOP CHORD	1-17=-3453/2701, 2-17=-3384/2712, 2-18=-2994/2328, 3-18=-2929/2335, 3-19=-2690/2168, 4-19=-2742/2159, 4-20=-2984/2421, 5-20=-3001/2415, 5-6=-581/460
BOT CHORD	1-9=-2548/3283, 8-9=-1692/2265, 7-8=-1692/2265, 6-7=-2225/2860
WEBS	3-9=-513/811, 2-9=-608/681, 3-7=-325/552, 4-7=-393/501

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 11-8-0, Exterior(2R) 11-8-0 to 14-8-0, Interior (1) 14-8-0 to 22-5-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 830 lb uplift at joint 1 and 814 lb uplift at joint 6.
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	De la Concepcion-8965
J2602880	T5	Common	4	1	RT00105482 Job Reference (optional)

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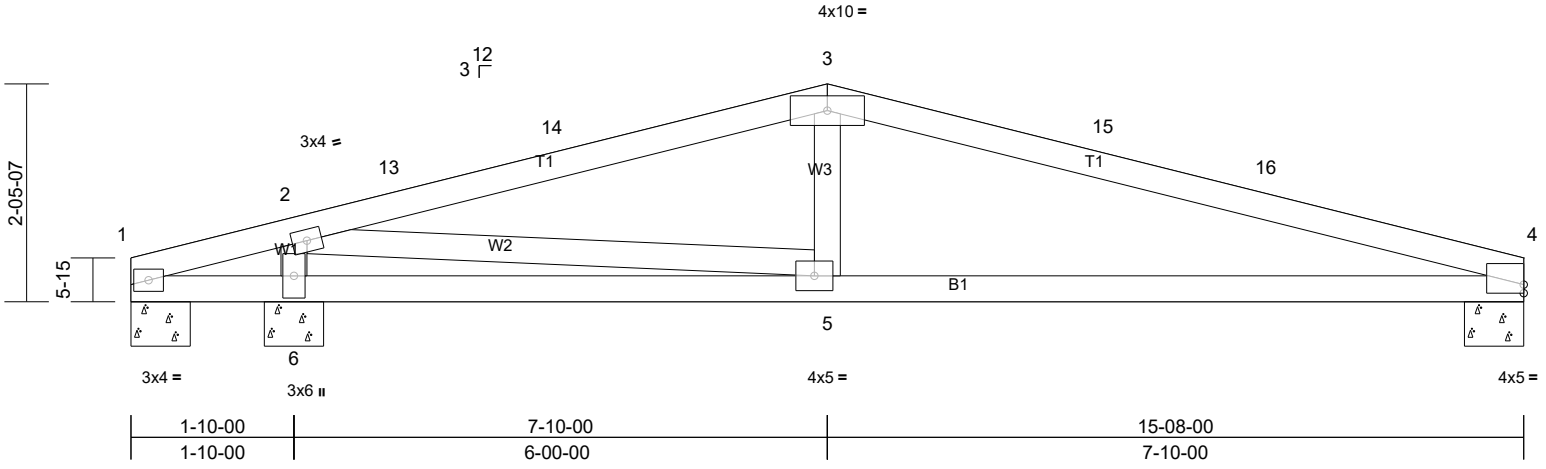

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Plate Offsets (X, Y): [4:Edge,1-02]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.53	Vert(LL)	-0.10	5-12	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.58	Vert(CT)	-0.20	5-12	>810	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.17	5-12	>976	240	Weight: 59 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP 2400F 2.0E
BOT CHORD	2x4 SP No.2
WEBS	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) 1=64/8-00, (min. 1-08), 4=756/8-00, (min. 1-08), 6=903/8-00, (min. 1-08)
Max Horiz 1=-87 (LC 13)
Max Uplift 1=-121 (LC 13), 4=-531 (LC 9), 6=-695 (LC 12)
Max Grav 1=126 (LC 22), 4=756 (LC 1), 6=903 (LC 1)

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

TOP CHORD	1-2=-313/309, 2-13=-1477/1384, 13-14=-1414/1390, 3-14=-1411/1397, 3-15=-1395/1402, 15-16=-1414/1393, 4-16=-1492/1391
BOT CHORD	1-6=-268/298, 5-6=-268/298, 4-5=-1211/1372
WEBS	2-5=-949/1089, 2-6=-858/983

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 7-10-0, Exterior(2R) 7-10-0 to 10-10-0, Interior (1) 10-10-0 to 15-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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 3-06-00 tall by 2-00-00 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 121 lb uplift at joint 1, 531 lb uplift at joint 4 and 695 lb uplift at joint 6.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	T6	Common	4	1	RT00105483 Job Reference (optional)

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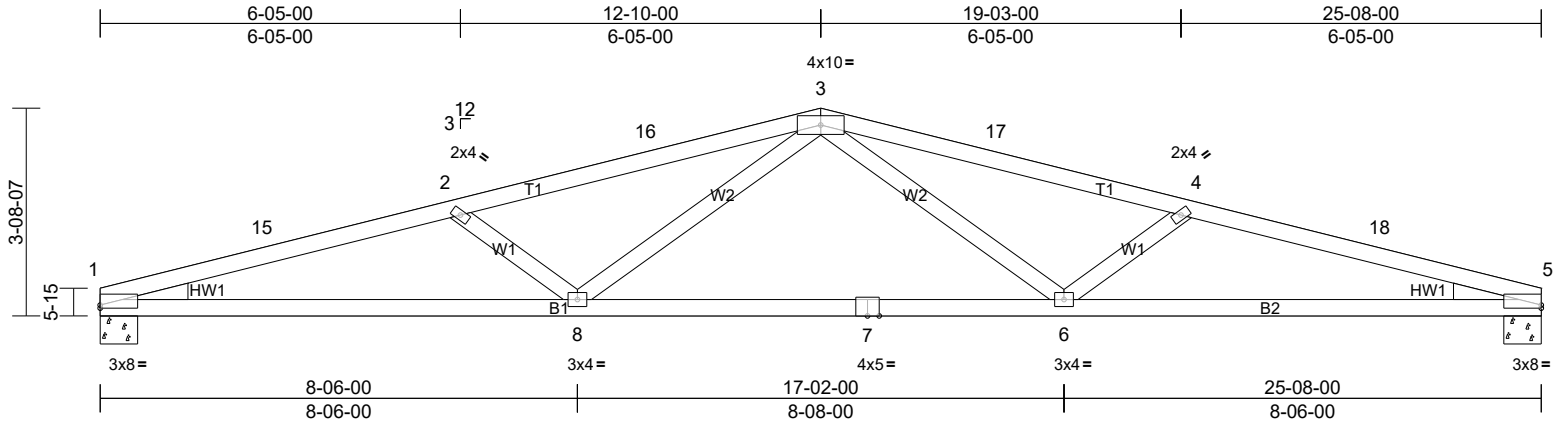

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Plate Offsets (X, Y): [1:Edge,0-10], [5:Edge,0-10]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.50	Vert(LL)	-0.28	6-8	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.40	Vert(CT)	-0.54	6-8	>567	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.09	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.39	6-8	>794	240	Weight: 105 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP 2400F 2.0E
BOT CHORD	2x4 SP 2400F 2.0E
WEBS	2x4 SP No.2
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) 1=1412/8-00, (min. 1-08), 5=1412/8-00, (min. 1-08)
Max Horiz 1=143 (LC 12)
Max Uplift 1=-942 (LC 8), 5=-942 (LC 9)

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

TOP CHORD	1-15=-4063/3096, 2-15=-3989/3108, 2-16=-3557/2696, 3-16=-3479/2705, 3-17=-3479/2705, 4-17=-3557/2696, 4-18=-3989/3109, 5-18=-4063/3096
BOT CHORD	1-8=-2906/3870, 7-8=-1947/2705, 6-7=-1947/2705, 5-6=-2900/3870
WEBS	3-6=-600/931, 4-6=-675/755, 3-8=-599/931, 2-8=-675/755

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 12-10-0, Exterior(2R) 12-10-0 to 15-10-0, Interior (1) 15-10-0 to 25-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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 3-06-00 tall by 2-00-00 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 942 lb uplift at joint 1 and 942 lb uplift at joint 5.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	T7	Roof Special	2	1	RT00105484 Job Reference (optional)

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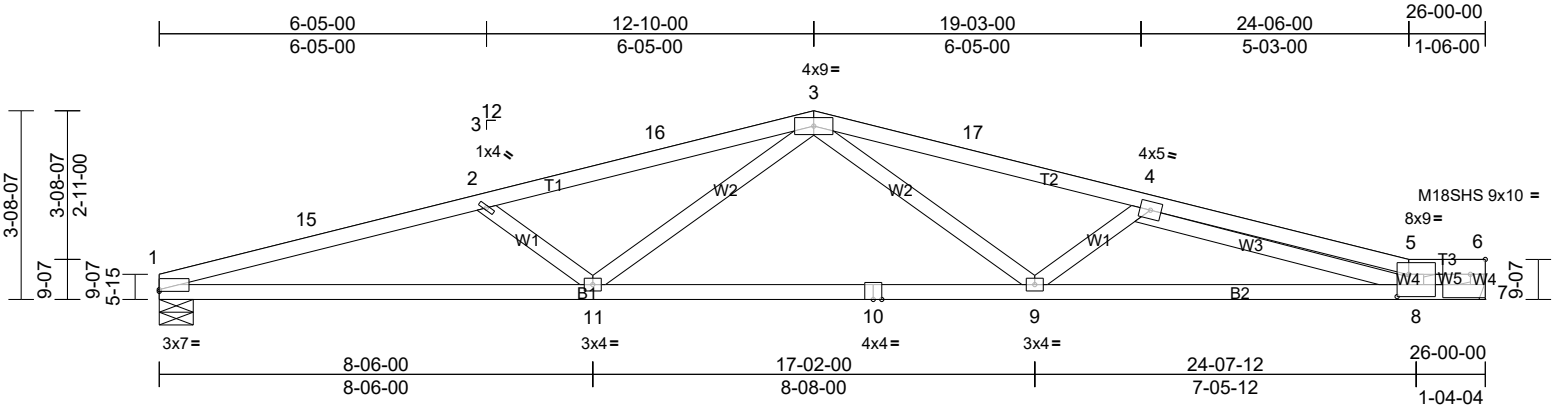

Scale = 1:45.4

Plate Offsets (X, Y): [1:Edge,0-06], [5:2-12,5-04], [6:3-08,Edge]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.50	Vert(LL)	-0.25	9-11	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.41	Vert(CT)	-0.50	9-11	>626	240	M18SHS	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.10	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.35	9-11	>884	240	Weight: 113 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP 2400F 2.0E *Except* T3:2x4 SP No.2
BOT CHORD	2x4 SP 2400F 2.0E
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) 1=1422/8-00, (min. 1-08), 7=1422/ Mechanical
Max Horiz 1=160 (LC 12)
Max Uplift 1=-947 (LC 8), 7=-952 (LC 9)

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

TOP CHORD	1-15=-4097/3118, 2-15=-4024/3131, 2-16=-3586/2715, 3-16=-3508/2723, 3-17=-3630/2795, 4-17=-3705/2788, 4-5=-3481/2553, 5-6=-3061/2175, 6-7=-1226/869
BOT CHORD	1-11=-2957/3904, 10-11=-2004/2744, 9-10=-2004/2744, 8-9=-3027/4020, 7-8=-346/443
WEBS	5-8=-1013/869, 3-11=-589/921, 3-9=-685/1036, 2-11=-680/759, 4-9=-693/757, 4-8=-708/672, 6-8=-1976/2828

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 12-10-0, Exterior(2R) 12-10-0 to 15-10-0, Interior (1) 15-10-0 to 25-10-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 947 lb uplift at joint 1 and 952 lb uplift at joint 7.
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

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	T8	Roof Special	2	1	RT00105485 Job Reference (optional)

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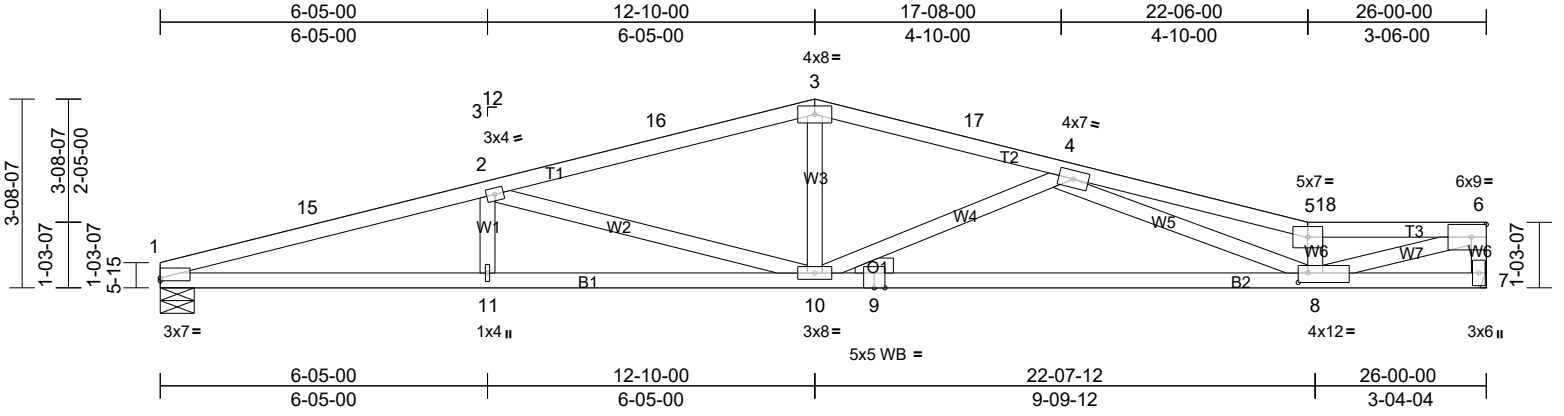

Scale = 1:45.4

Plate Offsets (X, Y): [1:Edge,0-10], [8:2-04,2-04]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.90	Vert(LL)	-0.31	8-10	>994	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.98	Vert(CT)	-0.75	8-10	>413	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.13	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.47	8-10	>663	240	Weight: 118 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2 *Except* T1:2x4 SP No.1
BOT CHORD	2x4 SP No.1 *Except* B2:2x4 SP No.2
WEBS	2x4 SP No.2 *Except* W6:2x4 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.

REACTIONS (lb/size) 1=1422/8-00, (min. 1-11), 7=1422/ Mechanical
Max Horiz 1=190 (LC 12)
Max Uplift 1=-945 (LC 8), 7=-953 (LC 9)

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

TOP CHORD	1-15=-4060/3052, 2-15=-3986/3065, 2-16=-2967/2257, 3-16=-2892/2265, 3-17=-2854/2280, 4-17=-2950/2270, 4-5=-4335/3231, 5-18=-3984/2915, 6-18=-3984/2915, 6-7=-1367/1068
BOT CHORD	1-11=-2942/3867, 10-11=-2942/3867, 9-10=-2804/3647, 8-9=-2804/3647
WEBS	5-8=-1327/1129, 3-10=-556/894, 2-10=-1200/1066, 4-10=-982/939, 4-8=-323/679, 6-8=-2822/3948

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 12-10-0, Exterior(2R) 12-10-0 to 15-10-0, Interior (1) 15-10-0 to 25-10-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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 3-06-00 tall by 2-00-00 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 945 lb uplift at joint 1 and 953 lb uplift at joint 7.
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	De la Concepcion-8965
J2602880	T9	Common	9	1	RT00105486 Job Reference (optional)

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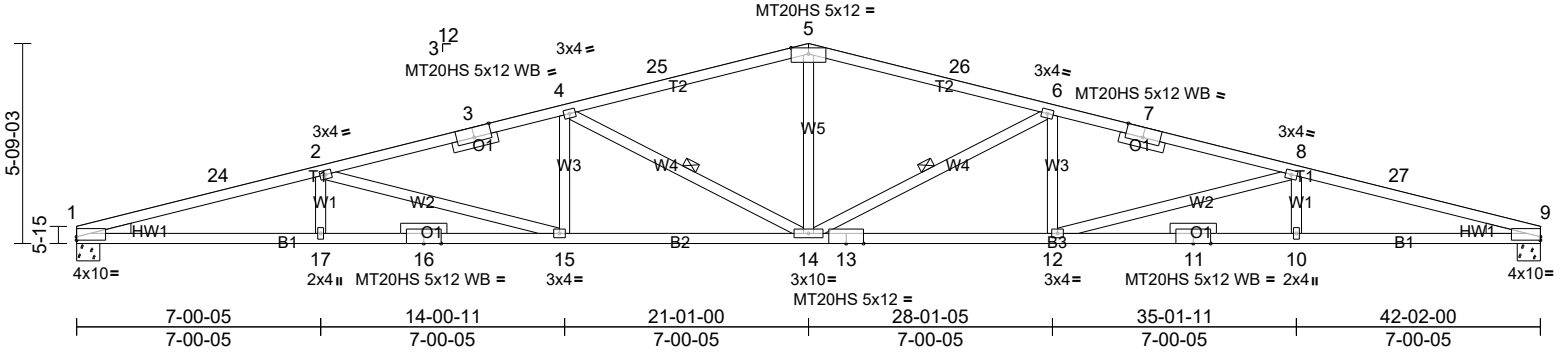

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Plate Offsets (X, Y): [1:Edge,1-02], [3:6-00,Edge], [7:6-00,Edge], [9:Edge,1-02]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.80	Vert(LL)	-0.66	14	>771	360	MT20HS	187/143
TCDL	15.0	Lumber DOL	1.33	BC	0.92	Vert(CT)	-1.21	14-15	>417	240	MT20	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.30	9	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.95	15-17	>532	240	Weight: 205 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP 2400F 2.0E
BOT CHORD	2x4 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2
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.
WEBS	1 Row at midpt 4-14, 6-14

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

REACTIONS (lb/size) 1=2319/8-00, (min. 1-15), 9=2319/8-00, (min. 1-15)
Max Horiz 1=-235 (LC 17)
Max Uplift 1=-1549 (LC 8), 9=-1549 (LC 9)

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

TOP CHORD	1-24=-7218/5397, 2-24=-7123/5412, 2-3=-6233/4702, 3-4=-6152/4712, 4-25=-4751/3704, 5-25=-4668/3719, 5-26=-4668/3719, 6-26=-4751/3704, 6-7=-6152/4712, 7-8=-6233/4702, 8-27=-7123/5412, 9-27=-7218/5397
BOT CHORD	1-17=-5119/6910, 16-17=-5119/6910, 15-16=-5119/6910, 14-15=-4308/5999, 13-14=-4316/5999, 12-13=-4316/5999, 11-12=-5111/6910, 10-11=-5111/6910, 9-10=-5111/6910
WEBS	5-14=-1146/1681, 4-14=-1707/1409, 6-14=-1707/1409, 4-15=-195/472, 6-12=-195/472, 2-15=-1055/903, 8-12=-1055/905

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 4-2-10, Interior (1) 4-2-10 to 21-1-0, Exterior(2R) 21-1-0 to 25-3-10, Interior (1) 25-3-10 to 42-2-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 1549 lb uplift at joint 1 and 1549 lb uplift at joint 9.
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	De la Concepcion-8965	
J2602880	T10	Hip	2	2	Job Reference (optional)	RT00105487

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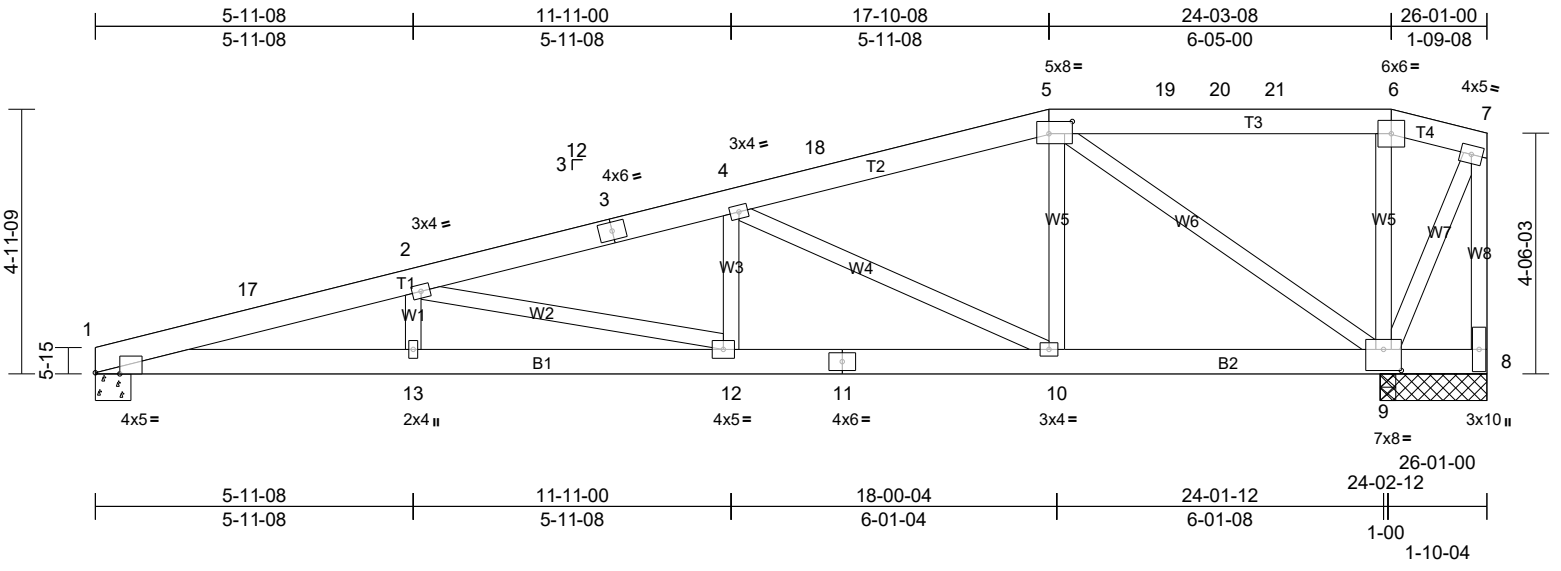

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Plate Offsets (X, Y): [1:5-08,Edge], [5:5-04,2-12], [9:4-00,4-12]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.54	Vert(LL)	-0.07	12-13	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.56	Vert(CT)	-0.14	12-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.39	Horz(CT)	-0.05	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.22	12-13	>999	240	Weight: 362 lb	FT = 20%

LUMBER

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

REACTIONS (lb/size) 1=1183/8-00, (min. 1-08), 8=-1858/2-00-00, (min. 1-08), 9=3528/2-00-00, (min. 1-08)
Max Horiz 1=438 (LC 33)
Max Uplift 1=-1870 (LC 25), 8=-2682 (LC 46), 9=-4293 (LC 25)
Max Grav 1=1551 (LC 46), 8=3286 (LC 25), 9=3528 (LC 1)

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

TOP CHORD	1-17=-6270/5970, 2-17=-5962/5688, 2-3=-4676/4514, 3-4=-4034/3903, 4-18=-2501/2487, 5-18=-1862/1880, 5-19=-1344/1390, 19-20=-785/778, 20-21=-729/775, 6-21=-881/928, 6-7=-1276/1307, 7-8=-3120/3177
BOT CHORD	1-13=-6217/6197, 12-13=-5410/5356, 11-12=-3561/3575, 10-11=-2508/2862, 9-10=-1296/1308, 8-9=-341/334
WEBS	5-10=-489/759, 6-9=-721/905, 7-9=-2991/2912, 5-9=-1872/1866, 4-10=-1544/1275, 4-12=-232/453, 2-12=-1221/1200

NOTES

1) 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 9-00 oc, 2x4 - 1 row at 9-00 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 9-00 oc.
Web connected as follows: 2x4 - 1 row at 9-00 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 17-10-8, Exterior(2R) 17-10-8 to 22-1-7, Interior (1) 22-1-7 to 24-3-8, Exterior(2E) 24-3-8 to 25-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2682 lb uplift at joint 8, 4293 lb uplift at joint 9 and 1870 lb uplift at joint 1.
10) This truss has been designed for a total drag load of 5000 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 26-1-0 for 191.7 plf.
11) 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.
12) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	TG1	Jack-Closed Girder	2	1	RT00105488 Job Reference (optional)

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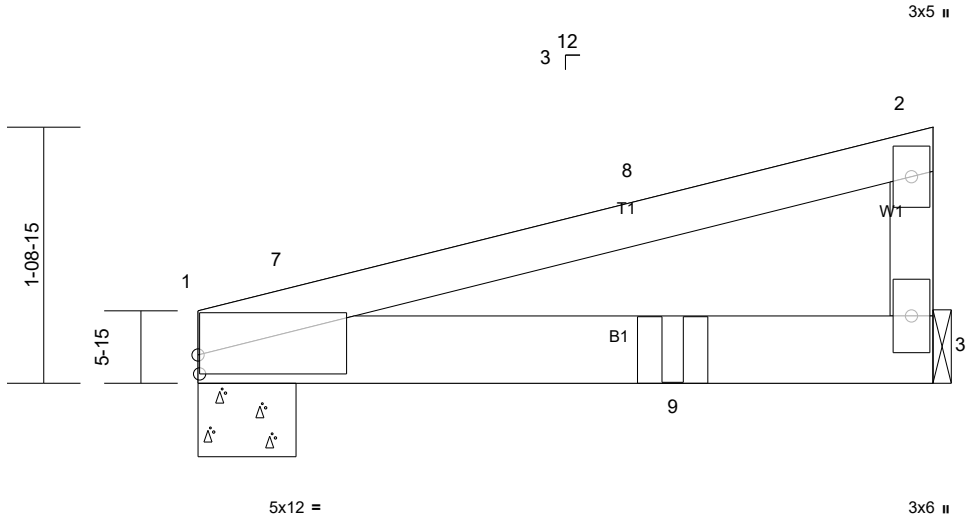

Special HUS26

Scale = 1:15.7

5-00-00

Plate Offsets (X, Y): [1:0-02,1-09]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.58	Vert(LL)	-0.10	3-6	>571	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.82	Vert(CT)	-0.19	3-6	>313	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	1	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP		Wind(LL)	0.17	3-6	>337	240	Weight: 21 lb	FT = 20%

LUMBER

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

REACTIONS (lb/size) 1=1831/8-00, (min. 3-10), 3=1507/ Mechanical
Max Horiz 1=125 (LC 8)
Max Uplift 1=-1257 (LC 8), 3=-1072 (LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-7=-1134/767, 1-7=-1115/768, 2-3=-291/454
BOT CHORD 1-9=-1039/1236

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 7-0-6 oc bracing.

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

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 4-10-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1257 lb uplift at joint 1 and 1072 lb uplift at joint 3.
8) Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent at 3-2-12 from the left end to connect truss(es) T8 (1 ply 2x4 SP) to back face of bottom chord.
9) Fill all nail holes where hanger is in contact with lumber.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1402 lb down and 962 lb up at 1-2-12 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.33, Plate Increase=1.33
   Uniform Loads (lb/ft)
   Vert: 1-2=-90, 3-4=-20
   Concentrated Loads (lb)
   Vert: 6=-1402, 9=-1402

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	V1	Valley	1	1	RT00105489 Job Reference (optional)

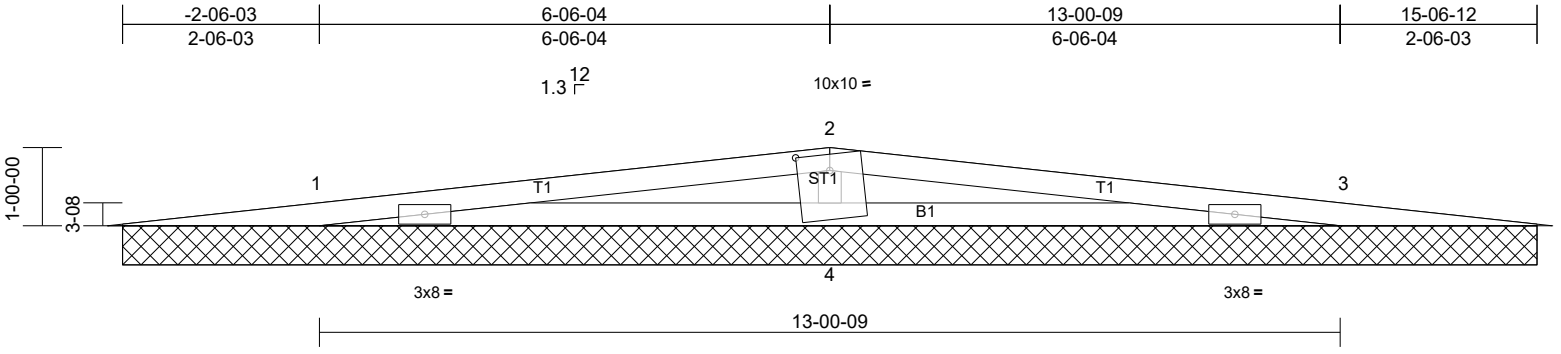

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Plate Offsets (X, Y): [2:5-00,2-08]

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.69	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.60	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.24	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 47 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP 2400F 2.0E
OTHERS 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) 1=261/18-00-15, (min. 1-08), 3=261/18-00-15, (min. 1-08), 4=914/18-00-15, (min. 1-08)
Max Horiz 1=32 (LC 16)
Max Uplift 1=-216 (LC 12), 3=-218 (LC 13), 4=-511 (LC 8)
Max Grav 1=287 (LC 21), 3=287 (LC 22), 4=914 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-424/616, 2-3=-362/250
BOT CHORD 1-4=-701/484, 3-4=-222/450
WEBS 2-4=-549/1123

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint 1, 218 lb uplift at joint 3, 511 lb uplift at joint 4, 216 lb uplift at joint 1 and 218 lb uplift at joint 3.
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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	V2	Valley	1	1	RT00105490
					Job Reference (optional)

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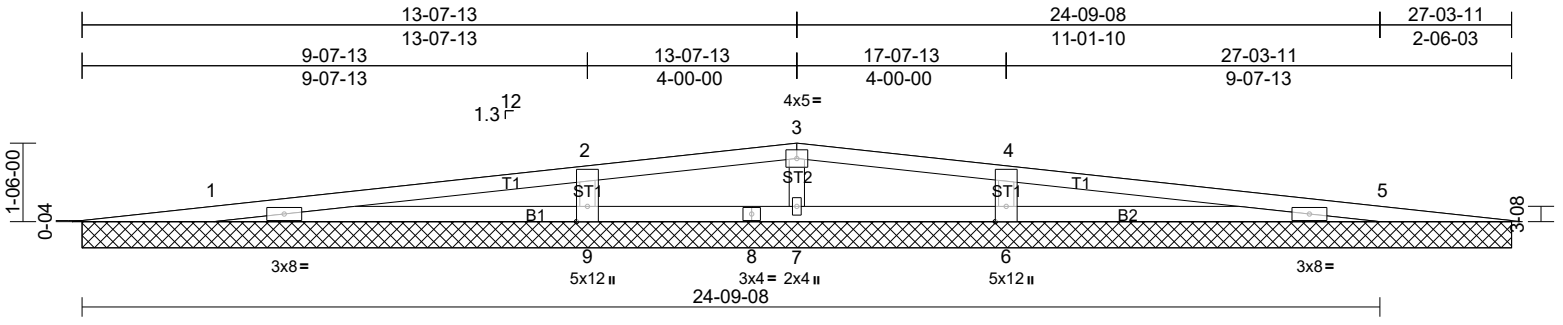

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Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.72	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.54	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 77 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP 2400F 2.0E
OTHERS	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 All bearings 27-03-11.

(lb) - Max Horiz 1=-54 (LC 13)

Max Uplift All uplift 100 (lb) or less at joint(s) 7 except 1=-233 (LC 12), 5=-235 (LC 13), 6=-626 (LC 9), 9=-626 (LC 8)

Max Grav All reactions 250 (lb) or less at joint(s) 7 except 1=313 (LC 21), 5=313 (LC 22), 6=816 (LC 1), 9=816 (LC 1)

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

TOP CHORD	1-2=-493/618
BOT CHORD	1-9=-708/564
WEBS	3-7=-262/456, 2-9=-545/878, 4-6=-545/878

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 1=232, 5=235, 9=625, 6=625, 1=232, 5=235.
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) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard