

Florida Cover Letter

Job Name: De la Concepcion-8965

JOB # J2602880

STRUCTURE J2602880A

Site Address: 8965 SW 63rd Court
Pinecrest FL 33156

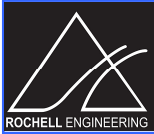
General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions)

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	6/3/2026	CJ5	RT00114644	29	6/3/2026	J3	RT00114672
2	6/3/2026	CJ5A	RT00114645	30	6/3/2026	J3A	RT00114673
3	6/3/2026	CJ7	RT00114646	31	6/3/2026	J5	RT00114674
4	6/3/2026	CJ7A	RT00114647	32	6/3/2026	J5A	RT00114675
5	6/3/2026	H1	RT00114648	33	6/3/2026	J7	RT00114676
6	6/3/2026	H2	RT00114649	34	6/3/2026	J7A	RT00114677
7	6/3/2026	H3	RT00114650	35	6/3/2026	J21	RT00114678
8	6/3/2026	H4	RT00114651	36	6/3/2026	T1	RT00114679
9	6/3/2026	H5	RT00114652	37	6/3/2026	T2	RT00114680
10	6/3/2026	H6	RT00114653	38	6/3/2026	T3	RT00114681
11	6/3/2026	H7	RT00114654	39	6/3/2026	T4	RT00114682
12	6/3/2026	H8	RT00114655	40	6/3/2026	T5	RT00114683
13	6/3/2026	H9	RT00114656	41	6/3/2026	T6	RT00114684
14	6/3/2026	H10	RT00114657	42	6/3/2026	T7	RT00114685
15	6/3/2026	H11	RT00114658	43	6/3/2026	T8	RT00114686
16	6/3/2026	H12	RT00114659	44	6/3/2026	T9	RT00114687
17	6/3/2026	H13	RT00114660	45	6/3/2026	T10	RT00114688
18	6/3/2026	H14	RT00114661	46	6/3/2026	TG1	RT00114689
19	6/3/2026	H15	RT00114662	47	6/3/2026	V1	RT00114690
20	6/3/2026	HG1	RT00114663	48	6/3/2026	V2	RT00114691
21	6/3/2026	HG2	RT00114664				
22	6/3/2026	HG3	RT00114665				
23	6/3/2026	HG4	RT00114666				
24	6/3/2026	HG5	RT00114667				
25	6/3/2026	HG6	RT00114668				
26	6/3/2026	HG7	RT00114669				
27	6/3/2026	J1	RT00114670				
28	6/3/2026	J1A	RT00114671				

SHOP DRAWING REVIEW		
Project Name De La Concepcion Residence		
☒ APPROVED	☐ REJECTED	
☐ REVISE & RESUBMIT	☐ APPROVED AS NOTED	
BY Alex Rochell, PE		DATE 6/11/2026
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

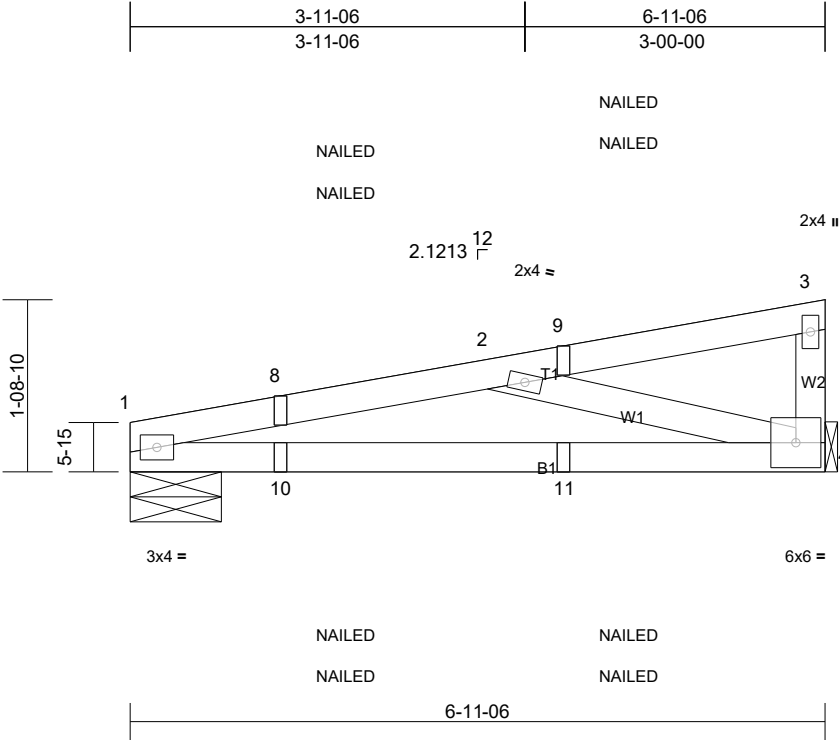
NOTE: The seal on these drawings indicate acceptance of the professional engineering responsibility for the truss components shown.

Roger A CHAVARRIA
Digitally signed by Roger A CHAVARRIA
Date: 2026.06.11 17:54:24 -04'00'

Engineer's Name

Date

Job J2602880	Truss CJ5	Truss Type Diagonal Hip Girder	Qty 16	Ply 1	De la Concepcion-8965 Job Reference (optional)	RT00114644
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Scale = 1:23.1

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 27)
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

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 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.
- "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

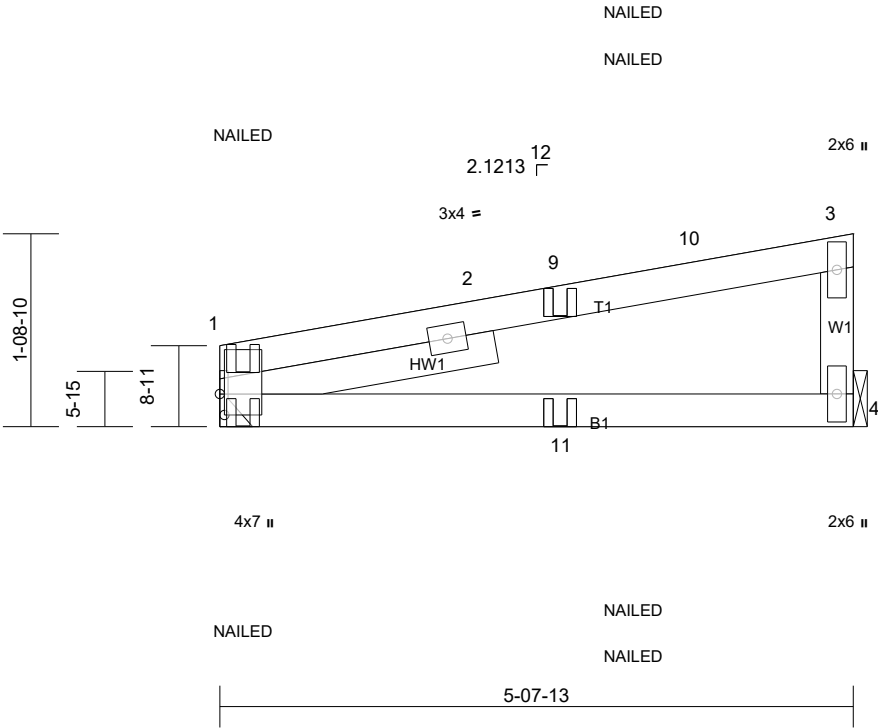
LOAD CASE(S) Standard

- 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

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.

Job J2602880	Truss CJ5A	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	De la Concepcion-8965 Job Reference (optional)	RT00114645
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Scale = 1:20.6

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)

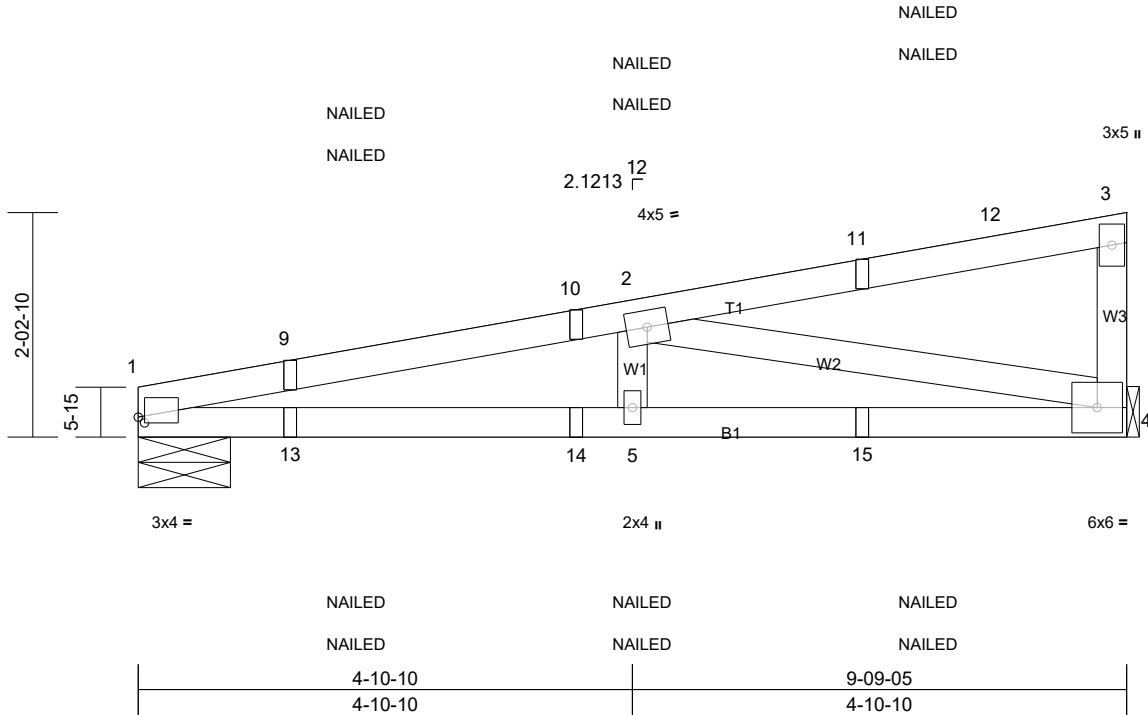
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-482/717, 3-4=-231/524
BOT CHORD 1-11=-635/191

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Refer to girder(s) for truss to truss connections.
 - 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.
 - "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") 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: 5=-8, 11=-24

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.

Job J2602880	Truss CJ7	Truss Type Diagonal Hip Girder	Qty 4	Ply 1	De la Concepcion-8965 Job Reference (optional)	RT00114646
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Scale = 1:22.9

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

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)

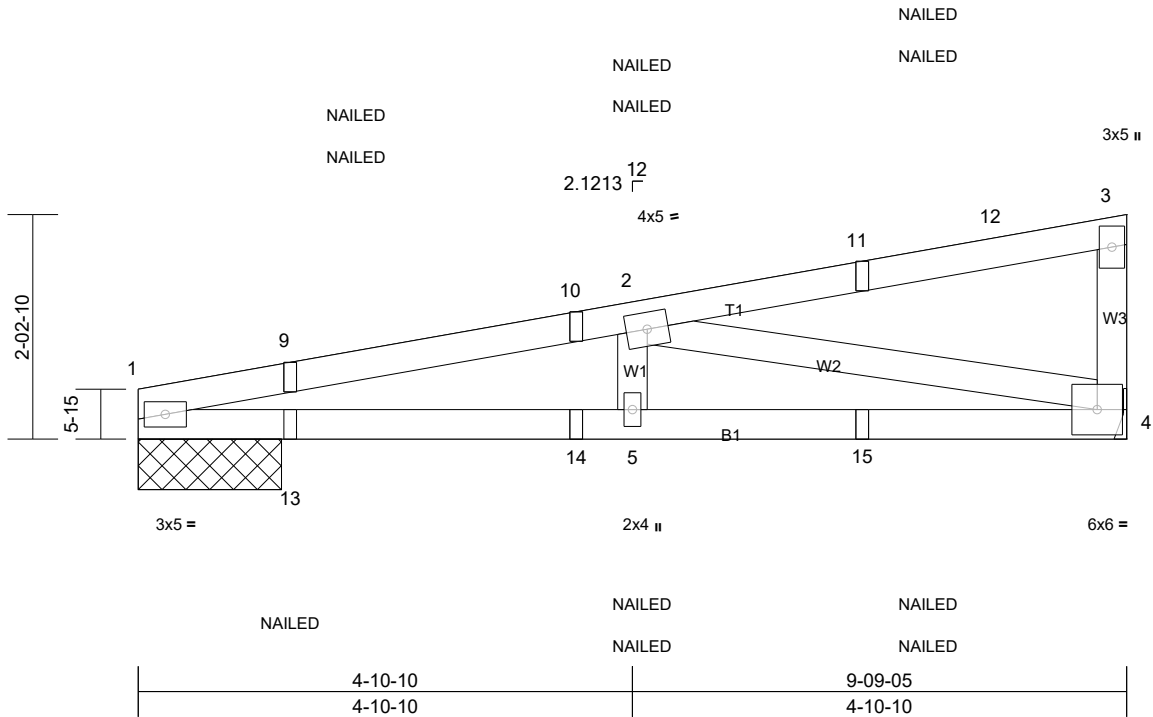
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-1766/2086, 9-10=-1734/2088, 2-10=-1705/2092, 3-4=-264/369
BOT CHORD 1-13=-2282/1707, 13-14=-2282/1707, 5-14=-2282/1707, 5-15=-2282/1707, 4-15=-2282/1707
WEBS 2-4=-1643/2238

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - 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.
 - "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

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.

Job J2602880	Truss CJ7A	Truss Type Diagonal Hip Girder	Qty 4	Ply 1	De la Concepcion-8965 Job Reference (optional)	RT00114647
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Scale = 1:22.9

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 27)
Max Uplift 1=-497 (LC 8), 4=-589 (LC 8)

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**

 - Unbalanced roof live loads have been considered for this design.
 - 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - 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.
 - "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- BRACING**
TOP CHORD
BOT CHORD

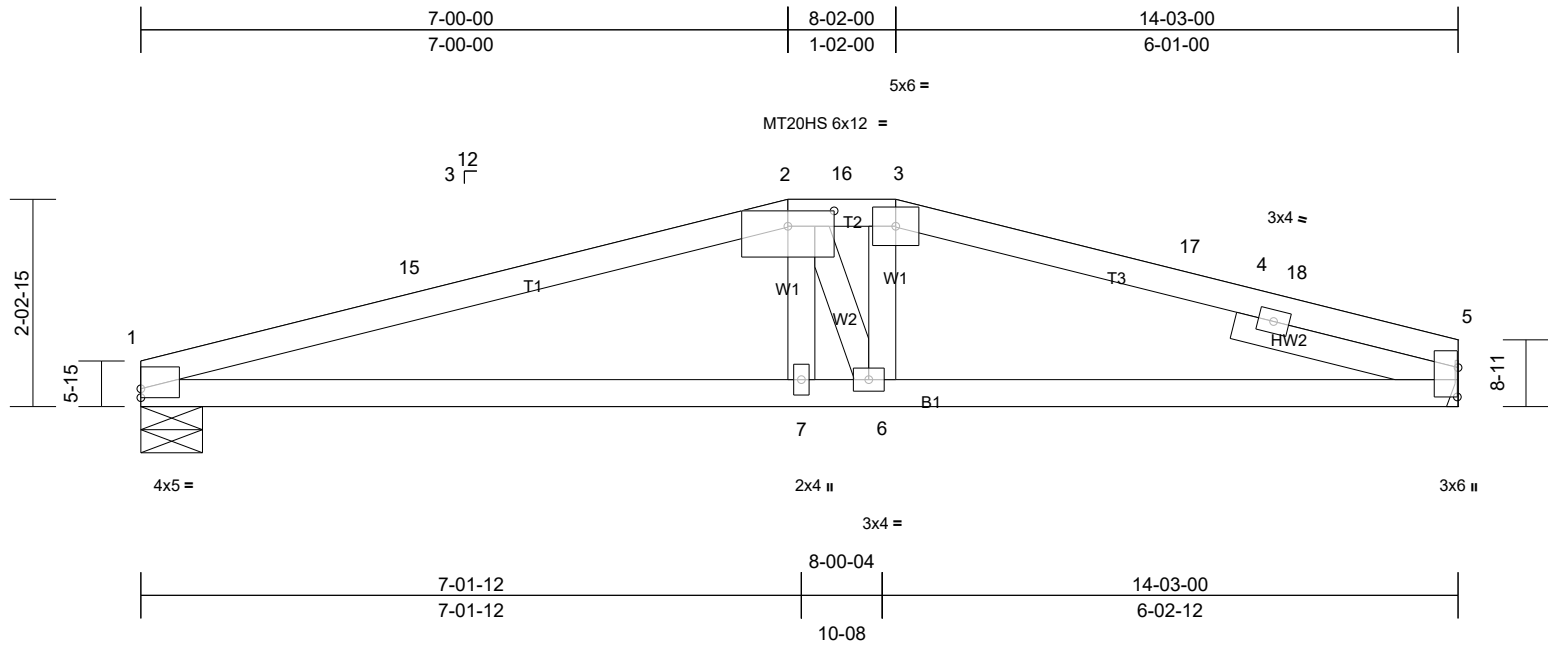
Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
Rigid ceiling directly applied or 3-7-9 oc bracing.

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

LOAD CASE(S) Standard

- 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 J2602880	Truss H1	Truss Type Hip	Qty 2	Ply 1	De la Concepcion-8965 Job Reference (optional)	RT00114648
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Scale = 1:25

Plate Offsets (X, Y): [1:Edge,1-02], [2:6-00,2-00], [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	0.88	Vert(LL)	-0.06	7-10	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.52	Vert(CT)	-0.14	7-10	>999	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.11	7-10	>999	240	Weight: 54 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

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=-1697/1806, 2-15=-1625/1816, 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=-1662/1576, 6-7=-1662/1588, 5-6=-1552/1455
WEBS 2-6=-519/394, 3-6=-256/386

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - 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.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

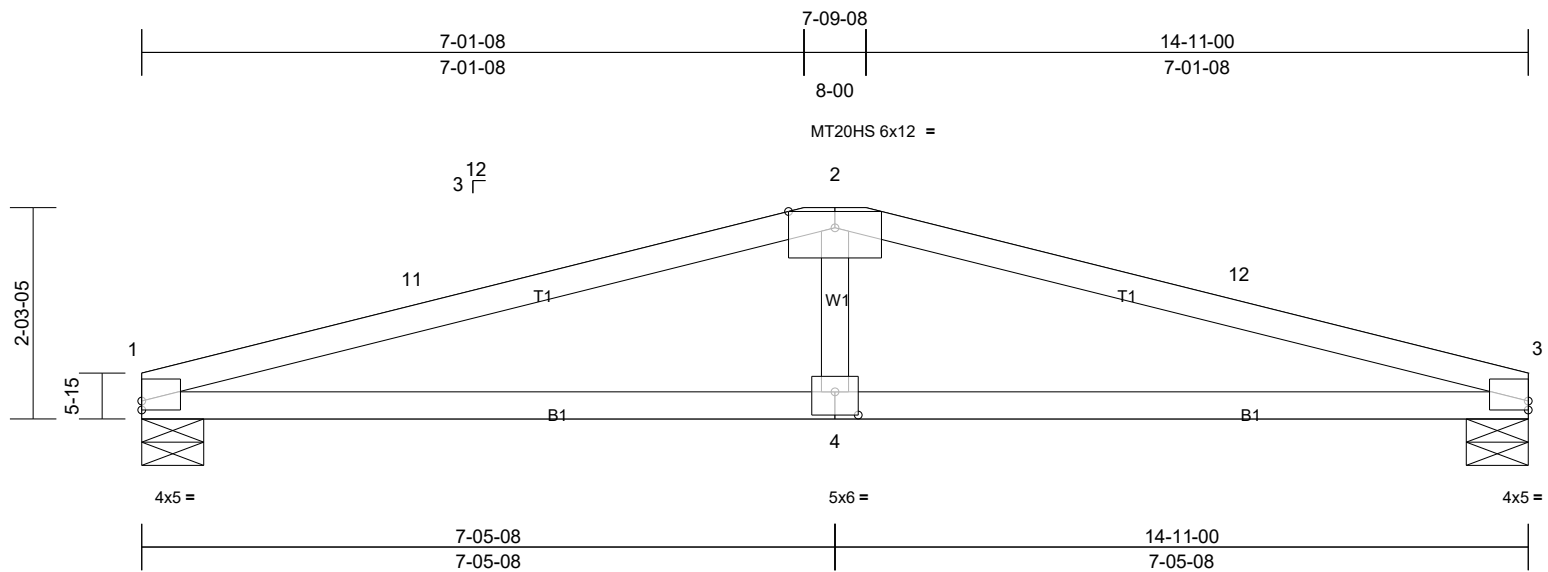
LOAD CASE(S) Standard

BRACING
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied.
Rigid ceiling directly applied.

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

Job J2602880	Truss H2	Truss Type Hip	Qty 2	Ply 1	De la Concepcion-8965 Job Reference (optional)	RT00114649
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Scale = 1:24.9

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

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	0.54	Vert(LL)	-0.10	4-7	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.58	Vert(CT)	-0.18	4-7	>978	240	MT20HS	187/143
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)	0.15	4-7	>999	240	Weight: 48 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=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=-1850/1840, 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=0/309

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 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.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

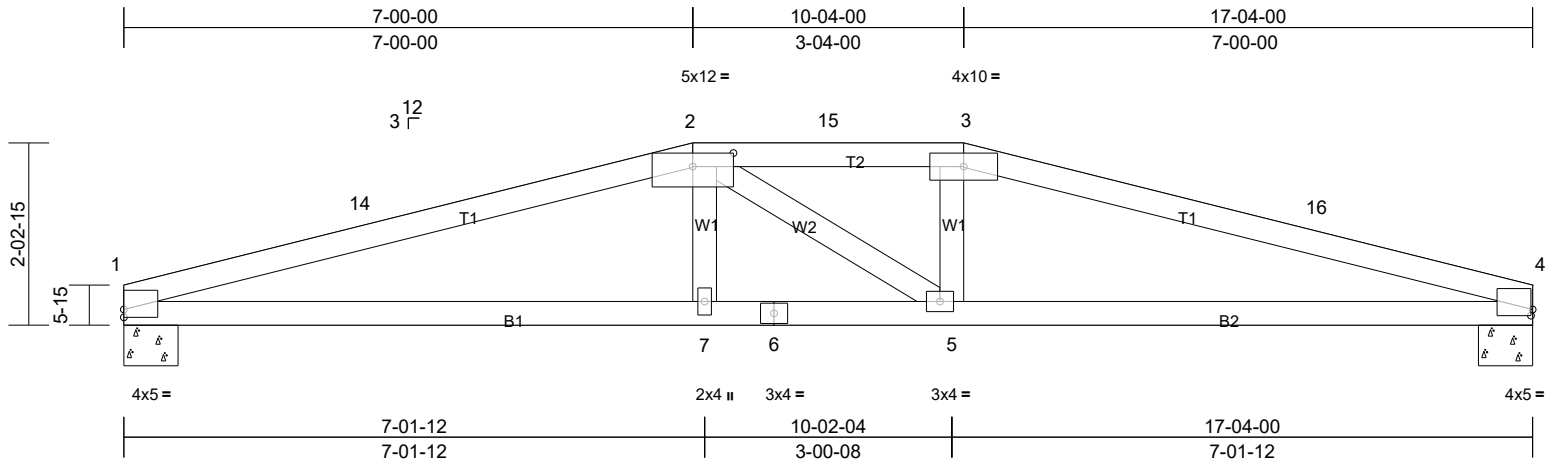
LOAD CASE(S) Standard

BRACING
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied.
Rigid ceiling directly applied.

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

Job J2602880	Truss H3	Truss Type Hip	Qty 2	Ply 1	De la Concepcion-8965 Job Reference (optional)	RT00114650
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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

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**
- Unbalanced roof live loads have been considered for this design.
 - 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 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.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

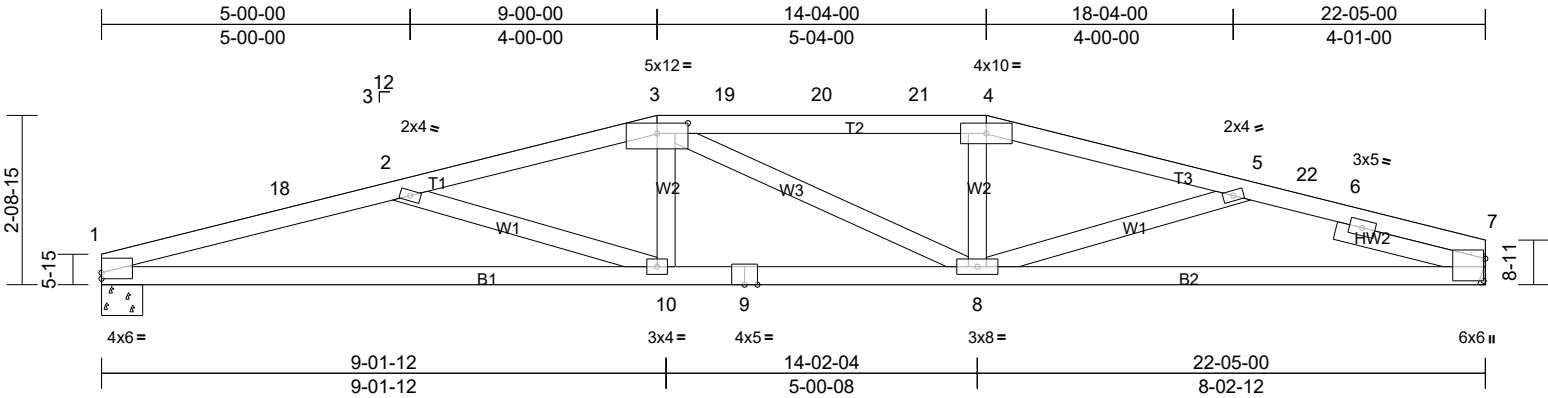
LOAD CASE(S) Standard

BRACING
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied.
Rigid ceiling directly applied.

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

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	H4	Hip	2	1	RT00114651
					Job Reference (optional)



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

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**
- Unbalanced roof live loads have been considered for this design.
 - 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - 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.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

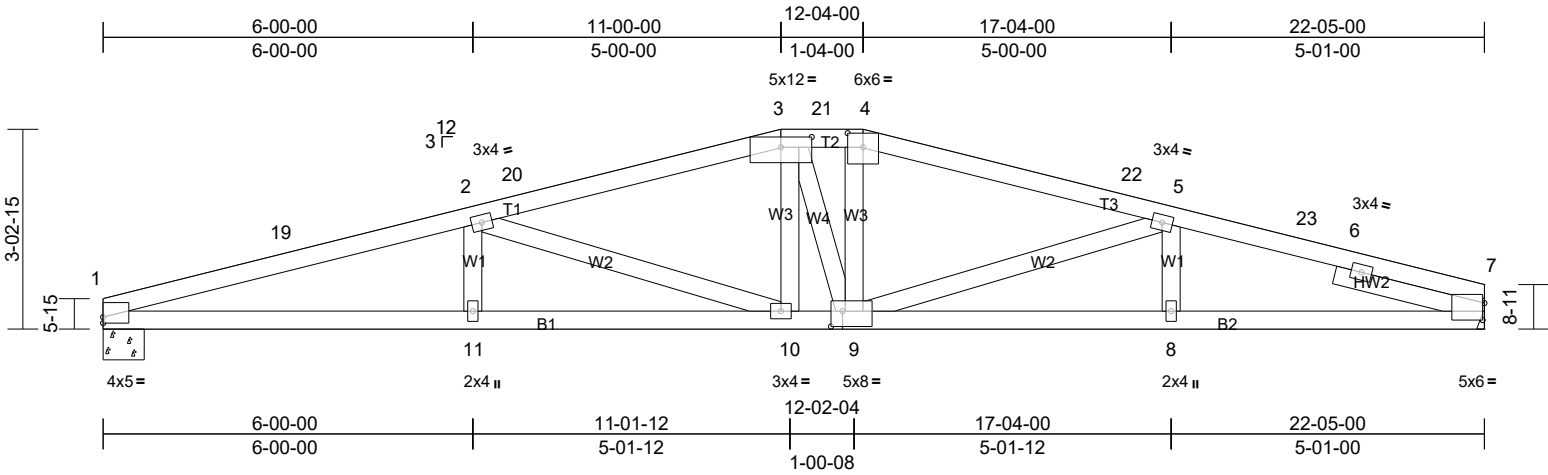
LOAD CASE(S) Standard

BRACING
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied.
Rigid ceiling directly applied.

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

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	H5	Hip	2	1	RT00114652
					Job Reference (optional)



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

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.

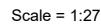
LOAD CASE(S) Standard

BRACING
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied.
Rigid ceiling directly applied.

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

Royal Truss, Medley, FL Run: 26.10 S May 11 2026 Print: 26.1.0 S May 11 2026 MiTek Industries, Inc. Wed Jun 03 10:36:05 Page: 1
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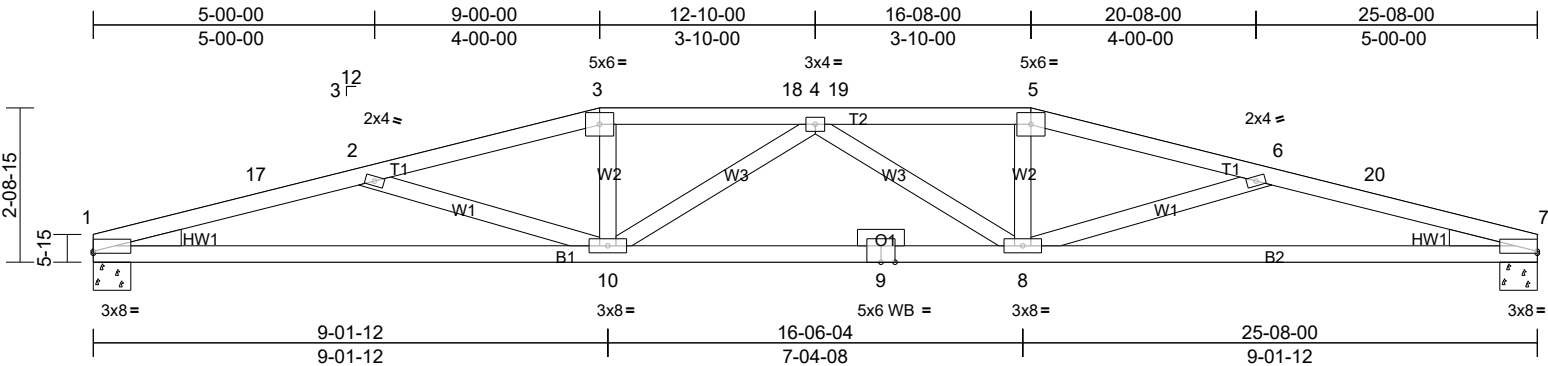
Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.78	Vert(LL)	-0.08	7-10	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.56	Vert(CT)	-0.17	7-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.04	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.13	7-10	>999	240	Weight: 58 lb	FT = 20%

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TC DL=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 9-4-0, Exterior(2R) 9-4-0 to 13-6-15, Interior (1) 13-6-15 to 16-4-0 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 621 lb uplift at joint 1 and 621 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 J2602880	Truss H7	Truss Type Hip	Qty 2	Ply 1	De la Concepcion-8965 Job Reference (optional)	RT00114654
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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.2
Right: 2x4 SP No.2

BRACING
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied.
Rigid ceiling directly applied.

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

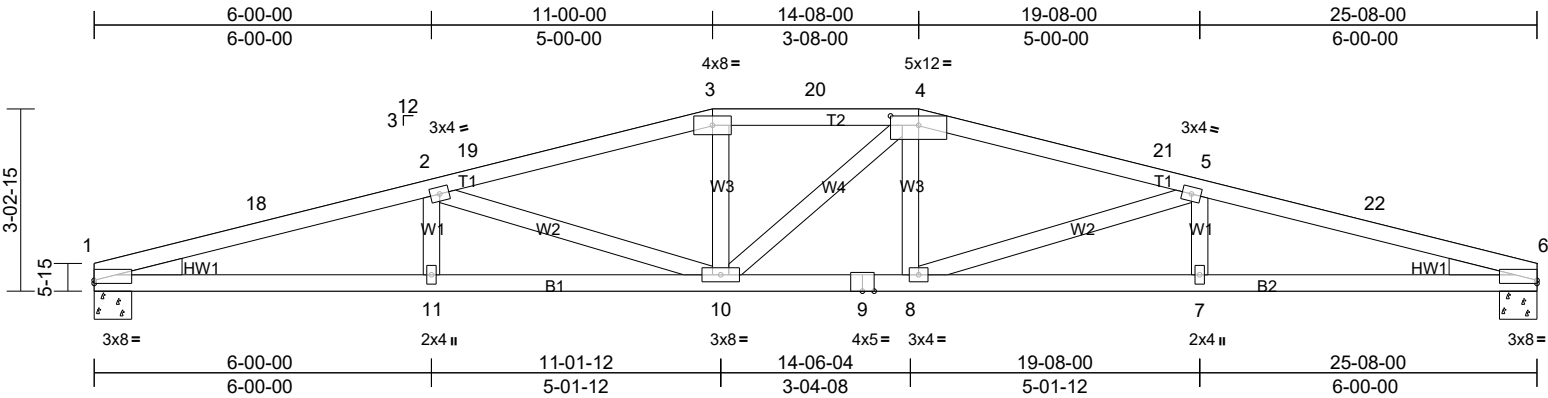
REACTIONS (lb/size) 1=1412/8-00, (min. 1-08), 7=1412/8-00, (min. 1-08)
Max Horiz 1=101 (LC 12)
Max Uplift 1=-1006 (LC 8), 7=-1006 (LC 9)

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**
- Unbalanced roof live loads have been considered for this design.
 - 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 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.
 - 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	RT00114655
					Job Reference (optional)



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
BOT CHORD

Structural wood sheathing directly applied.
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**
- Unbalanced roof live loads have been considered for this design.
 - 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 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.
 - 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

Royal Truss,Medley,FL Run: 25.30 S Oct 16 2025 Print: 26.1.0 S May 11 2026 MiTek Industries, Inc. Wed Jun 03 10:36:05 Page: 1
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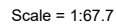
Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.80	Vert(LL)	-0.70	17-19	>725	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.67	Vert(CT)	-1.28	17-19	>396	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.16	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	1.12	17-19	>454	240	Weight: 535 lb	FT = 20%

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

Royal Truss, Medley, FL Run: 25.30 S Oct 16 2025 Print: 26.1.0 S May 11 2026 MiTek Industries, Inc. Wed Jun 03 10:36:05 Page: 1
ID:8?B6Ug8Y1HqVWV1DI6d35YFzi4Ij-QYnWEVBcCegngrVePHmDBUjItS01CL Rk7qUvMzA1QI



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%

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

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)

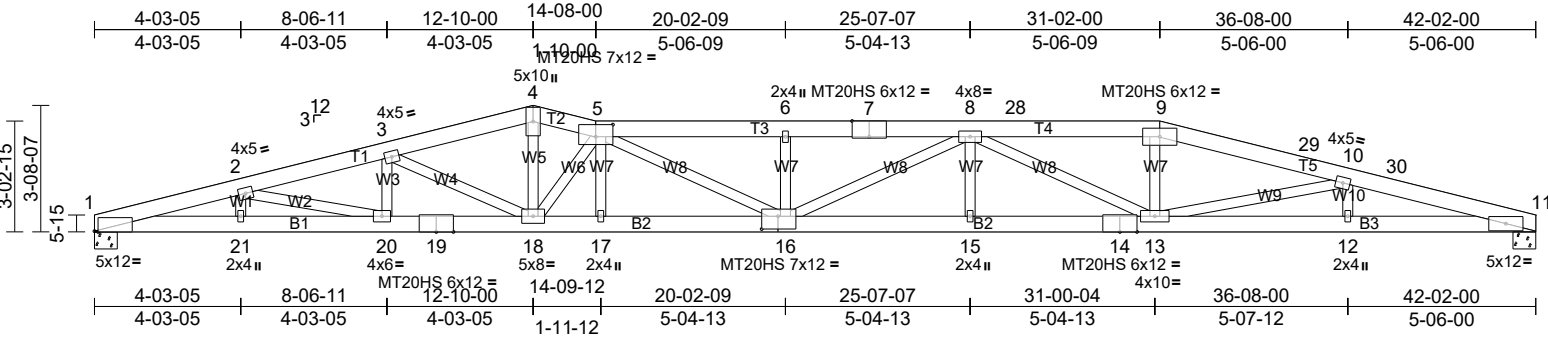
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TC DL=5.0psf; BC DL=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	RT00114658
					Job Reference (optional)



Scale = 1:67.7

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

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

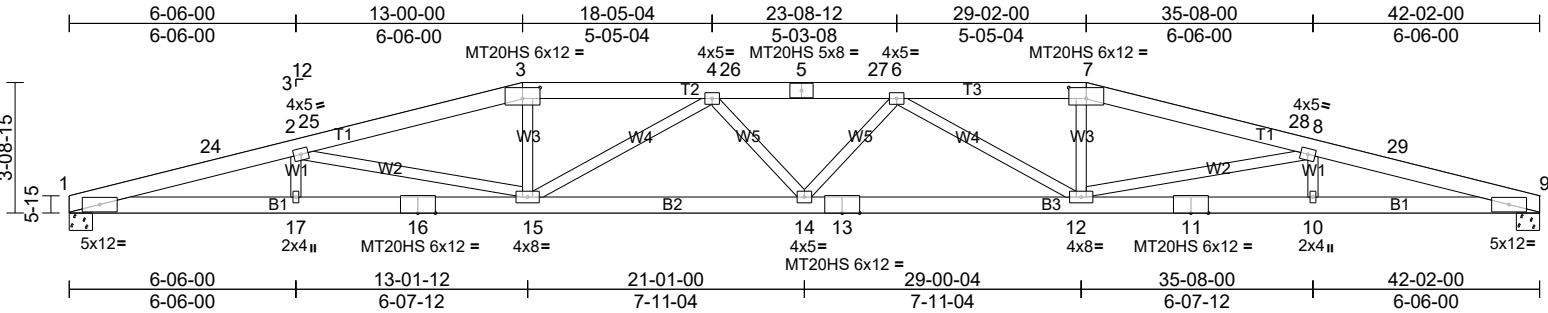
- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDL=5.0psf; BCDL=5.0psf; h=38ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 4-3-5, Interior (1) 4-3-5 to 12-10-0, 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 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.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

BRACING
TOP CHORD Structural wood sheathing directly applied.
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.

Job J2602880	Truss H12	Truss Type Hip	Qty 2	Ply 1	De la Concepcion-8965 Job Reference (optional) RT00114659
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Scale = 1:66.4

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.

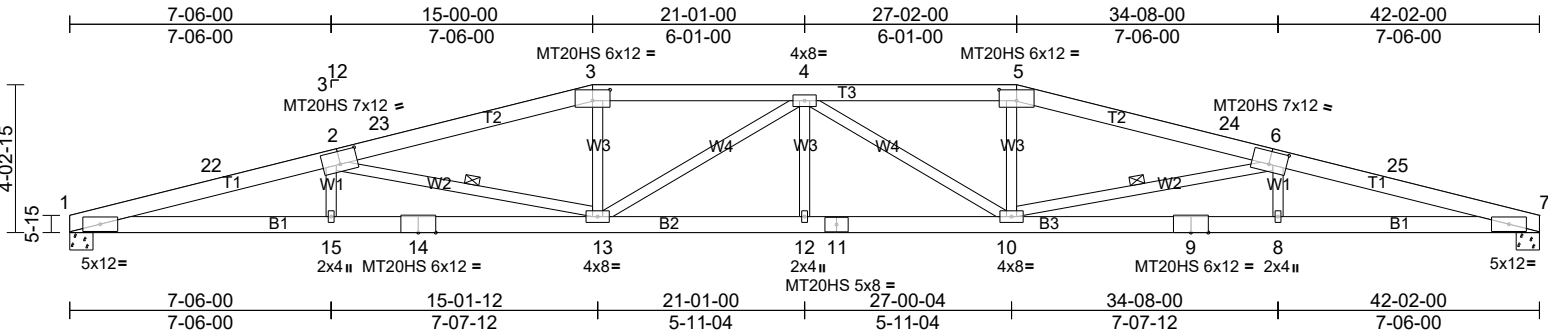
REACTIONS (lb/size) 1=2319/8-00, (min. 1-15), 9=2319/8-00, (min. 1-15)
Max Horiz 1=145 (LC 12)
Max Uplift 1=-1677 (LC 8), 9=-1677 (LC 9)

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**
- Unbalanced roof live loads have been considered for this design.
 - 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 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.
 - 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 J2602880	Truss H13	Truss Type Hip	Qty 2	Ply 1	De la Concepcion-8965 Job Reference (optional) RT00114660
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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

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)

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

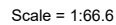
BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 2-13, 6-10

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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 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.
 - 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

Royal Truss, Medley, FL Run: 25.30 S Oct 16 2025 Print: 26.1.0 S May 11 2026 MiTek Industries, Inc. Wed Jun 03 10:36:05 Page: 1
ID: CmNng9H8xsNC LCzVOBmHtzi4f4-QYnWEVBcCegngrVePHmDBuJmXsSICGbrK7gUvMzA1Qf



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%

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

TOP CHORD
BOT CHORD

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)

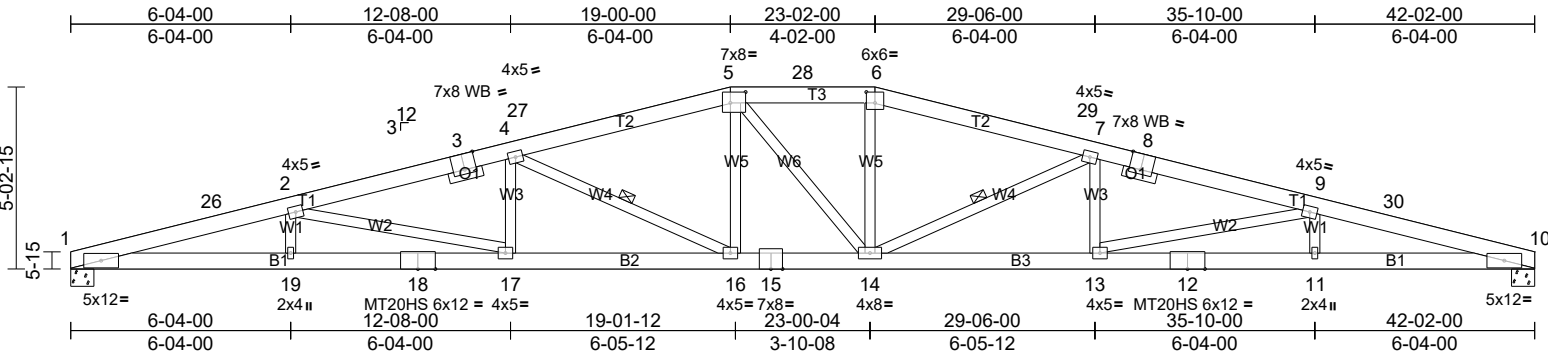
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TC DL=5.0psf; BC DL=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(2E) 17-0-0 to 22-11-9, Interior (1) 22-11-9 to 25-2-0, Exterior(2E) 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
J2602880	H15	Hip	2	1	RT00114662
					Job Reference (optional)



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%

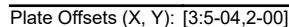
LUMBER		BRACING	
TOP CHORD	2x6 SP No.2 *Except* T1:2x6 SP 2400F 2.0E	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x6 SP 2400F 2.0E	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.2	WEBS	1 Row at midpt 4-16, 7-14
OTHERS	2x4 SP No.2		
REACTIONS (lb/size)	1=2319/8-00, (min. 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**
- Unbalanced roof live loads have been considered for this design.
 - 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 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.
 - 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

Royal Truss, Medley, FL Run: 26.10 S May 11 2026 Print: 26.1.0 S May 11 2026 MiTek Industries, Inc. Wed Jun 03 10:36:05 Page: 1
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LUMBER		BRACING	
TOP CHORD	2x4 SP No.2 *Except* T2:2x4 SP 2400F 2.0E	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 8-0-0 oc bracing.
WEBS	2x4 SP No.2		
WEDGE	Right: 2x4 SP No.2		
REACTIONS			
(lb/size)	1=1410/8-00, (min. 1-08), 4=1464/ Mechanical		
Max Horiz	1=69 (LC 29)		
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=-1782/1688, 1-14=-1764/1689, 1-15=-4306/4144, 2-15=-4263/4148, 2-16=-4176/4118, 16-17=-4176/4118, 17-18=-4176/4118, 18-19=-4176/4118, 19-20=-4176/4118, 3-20=-4176/4118, 3-21=-3609/3558, 4-21=-3686/3549		
BOT CHORD	1-7=-3939/4134, 7-22=-3340/3533, 6-22=-3340/3533, 5-6=-3340/3533, 4-5=-3342/3518		
WEBS	2-7=-236/400, 3-7=-680/785		

- ## NOTES
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 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.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDD=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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - 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.
 - 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.
 - Fill all nail holes where hanger is in contact with lumber.
 - "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	HG1	Hip Girder	2	2	RT00114663
					Job Reference (optional)

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=-334, 17=-115, 19=-115, 22=-47

Job J2602880	Truss HG2	Truss Type Hip Girder	Qty 2	Ply 2	De la Concepcion-8965 Job Reference (optional)	RT00114664
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Royal Truss,Medley,FL

Run: 26.10 S May 11 2026 Print: 26.1.0 S May 11 2026 MiTek Industries, Inc. Wed Jun 03 10:36:05

Page: 1

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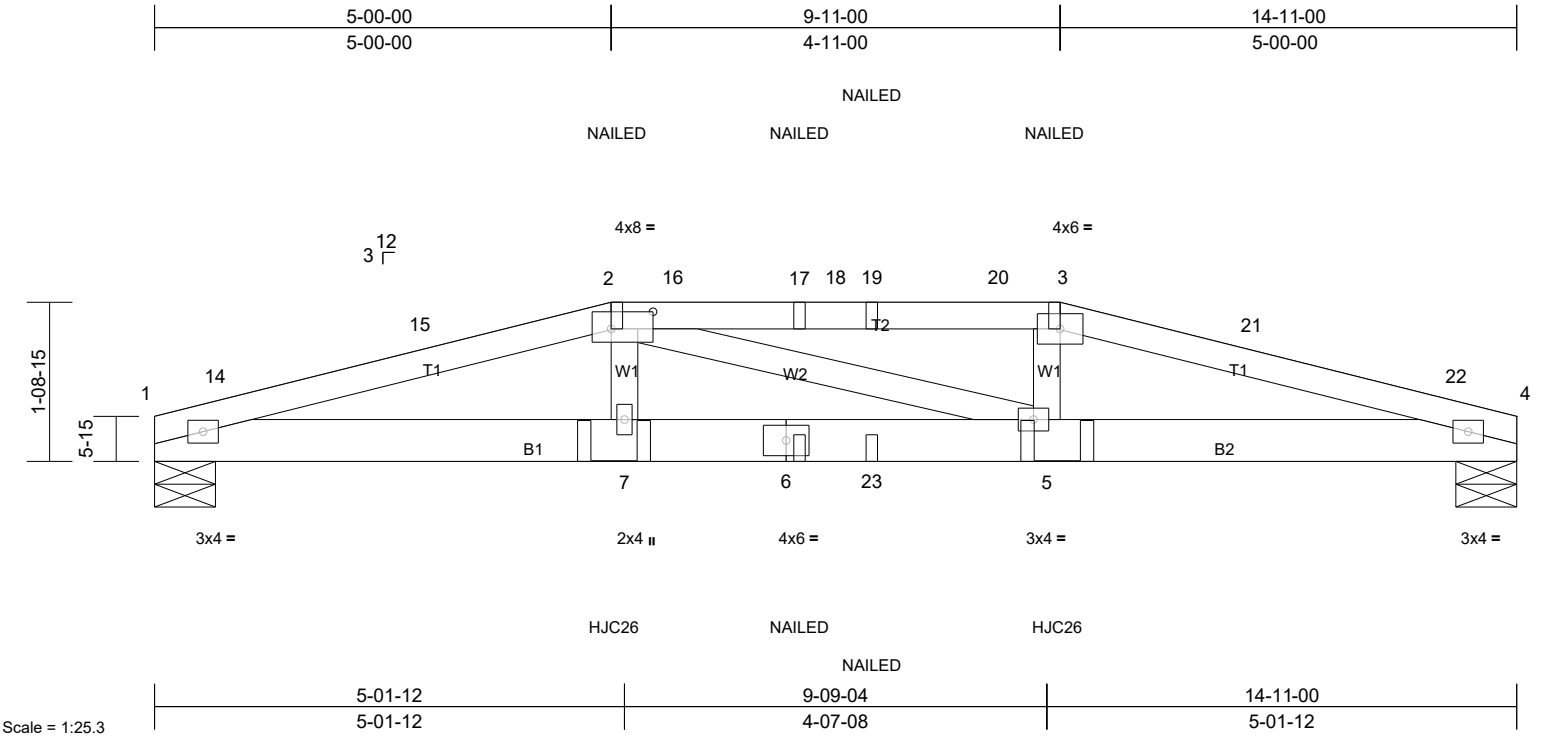


Plate Offsets (X, Y): [2:5-08,2-04]

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	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	0.06	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		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-6-12 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 7-6-14 oc bracing.
WEBS	2x4 SP No.2		

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=-4236/4552, 6-23=-4236/4552, 5-23=-4236/4552, 4-5=-4149/4452
WEBS 2-7=-342/525, 3-5=-329/495

- NOTES**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 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.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCCL=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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 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.
 - 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.
 - Fill all nail holes where hanger is in contact with lumber.
 - "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

- 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

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	HG2	Hip Girder	2	2	RT00114664
					Job Reference (optional)

Concentrated Loads (lb)
Vert: 2=-115, 3=-115, 6=-47, 7=-420, 5=-420, 17=-115, 19=-115, 23=-47

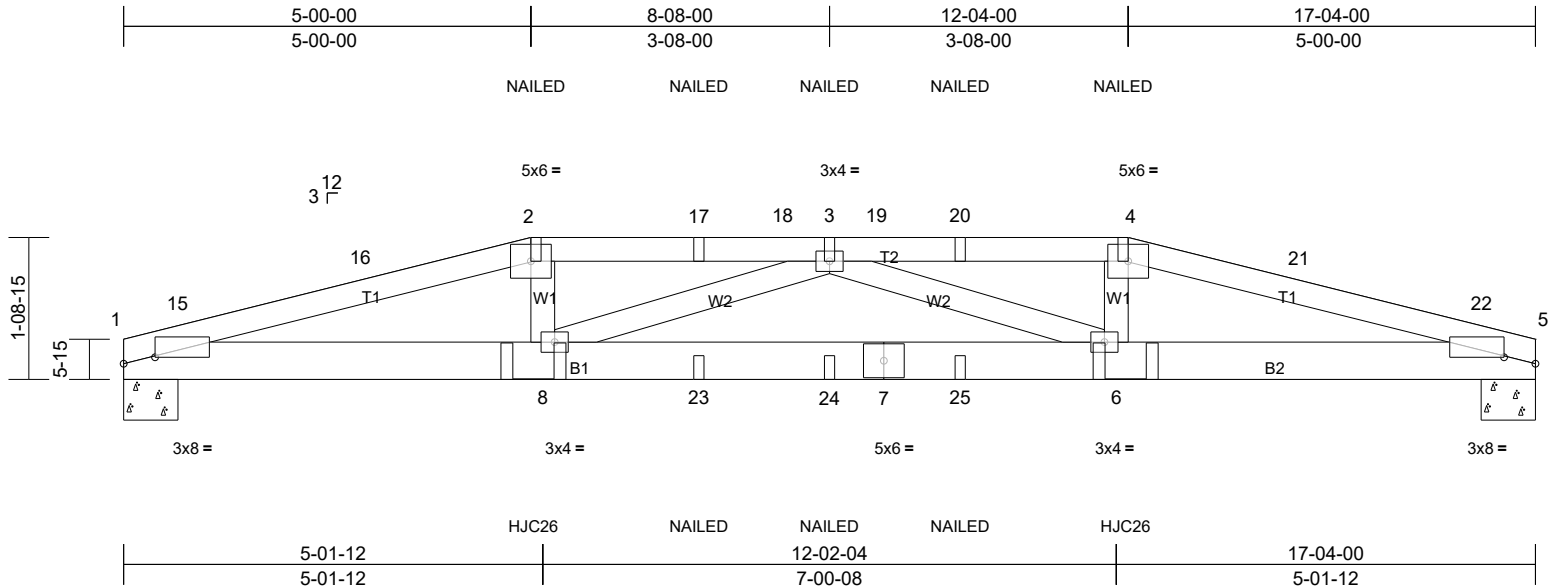
Job J2602880	Truss HG3	Truss Type Hip Girder	Qty 2	Ply 2	De la Concepcion-8965 Job Reference (optional) RT00114665
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Royal Truss,Medley,FL

Run: 26.10 S May 11 2026 Print: 26.1.0 S May 11 2026 MiTek Industries, Inc. Wed Jun 03 10:36:05

Page: 1

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Scale = 1:28.4

Plate Offsets (X, Y): [1:4-10,0-15], [5:4-10,0-15]

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	0.74	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		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-2-0 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-5-13 oc bracing.
WEBS	2x4 SP No.2		

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**
- 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.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 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.
 - 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.
 - Fill all nail holes where hanger is in contact with lumber.
 - "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

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	HG3	Hip Girder	2	2	RT00114665
					Job Reference (optional)

Concentrated Loads (lb)

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

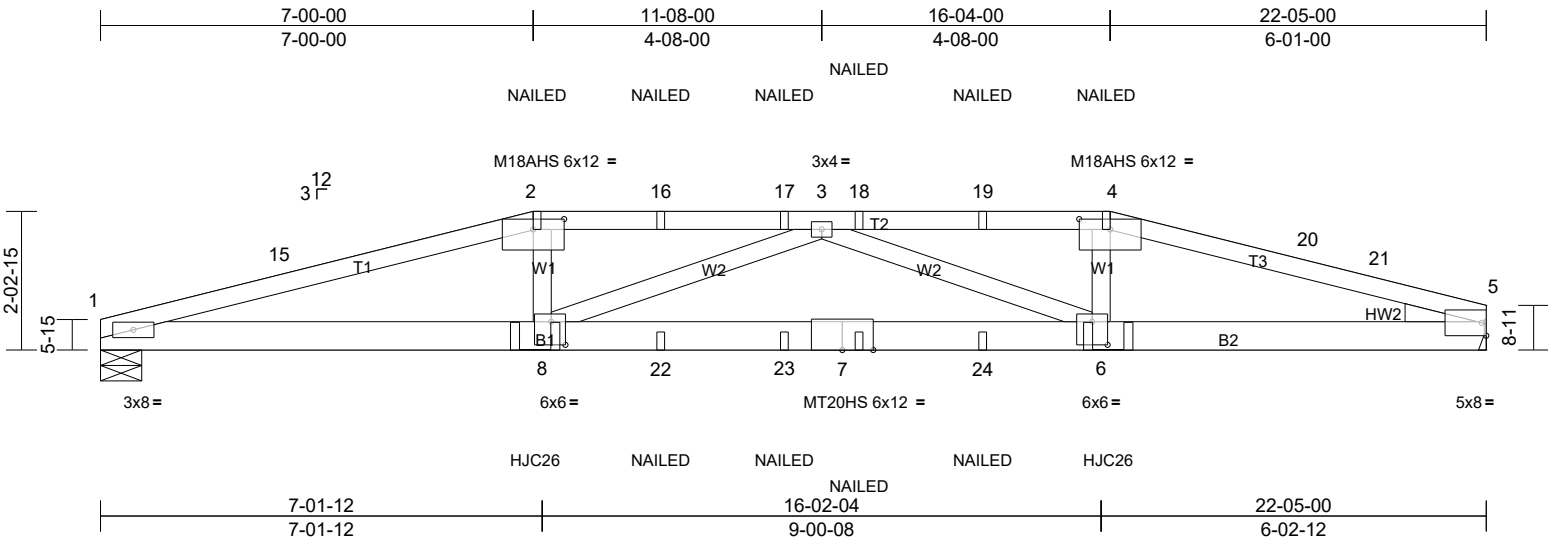
Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	HG4	Hip Girder	2	2	RT00114666
					Job Reference (optional)

Royal Truss,Medley,FL

Run: 26.10 S May 11 2026 Print: 26.1.0 S May 11 2026 MiTek Industries, Inc. Wed Jun 03 10:36:05

Page: 1

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Scale = 1:37.4

Plate Offsets (X, Y): [2:6-00,2-00], [4:6-00,2-00], [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	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	NO	WB	0.20	Horz(CT)	0.08	5	n/a	n/a	MT20HS	187/143
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.2

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 29)
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

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	HG4	Hip Girder	2	2	RT00114666
					Job Reference (optional)

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

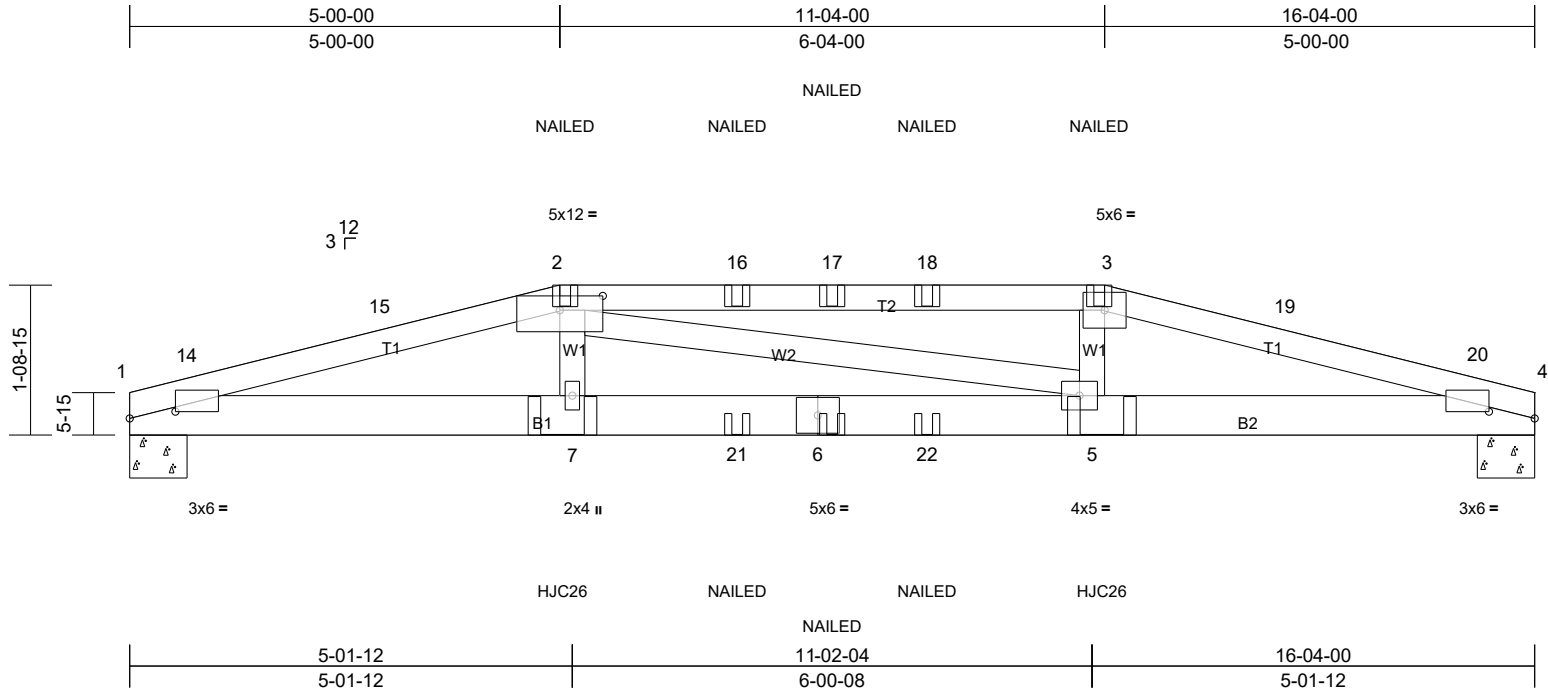
Job J2602880	Truss HG5	Truss Type Hip Girder	Qty 2	Ply 2	De la Concepcion-8965 Job Reference (optional)	RT00114667
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Royal Truss,Medley,FL

Run: 26.10 S May 11 2026 Print: 26.1.0 S May 11 2026 MiTek Industries, Inc. Wed Jun 03 10:36:05

Page: 1

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Scale = 1:26.9

Plate Offsets (X, Y): [1:6-06,0-15], [2:6-00,2-00], [4:6-06,0-15]

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	0.76	Vert(LL)	-0.13	5-7	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.63	Vert(CT)	-0.24	5-7	>817	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.06	Horz(CT)	0.04	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.23	5-7	>838	240	Weight: 149 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2 *Except* T2:2x4 SP 2400F 2.0E	TOP CHORD	Structural wood sheathing directly applied or 5-4-4 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 7-1-12 oc bracing.
WEBS	2x4 SP No.2		

REACTIONS (lb/size) 1=1676/8-00, (min. 1-08), 4=1675/8-00, (min. 1-08)
Max Horiz 1=-56 (LC 13)
Max Uplift 1=-1370 (LC 8), 4=-1369 (LC 9)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1727/1580, 1-14=-1708/1580, 1-15=-5338/4861, 2-15=-5260/4867, 2-16=-5183/4811, 16-17=-5183/4811, 17-18=-5183/4811, 3-18=-5183/4811, 3-19=-5247/4852, 4-19=-5325/4847, 4-20=-1706/1578, 4-20=-1725/1578
BOT CHORD 1-7=-4624/5140, 7-21=-4657/5196, 6-21=-4657/5196, 6-22=-4657/5196, 5-22=-4657/5196, 4-5=-4604/5127
WEBS 2-7=-309/534, 3-5=-305/523

- NOTES**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 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.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCCL=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 11-4-0, Exterior(2R) 11-4-0 to 15-6-15, Interior (1) 15-6-15 to 16-4-0 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1370 lb uplift at joint 1 and 1369 lb uplift at joint 4.
 - Use MiTek HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 6-3-4 oc max. starting at 5-0-6 from the left end to 11-3-10 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.
 - Fill all nail holes where hanger is in contact with lumber.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

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

Job J2602880	Truss HG5	Truss Type Hip Girder	Qty 2	Ply 2	De la Concepcion-8965 RT00114667 Job Reference (optional)
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Vert: 2=-115, 3=-115, 6=-47, 7=-420, 5=-420, 16=-115, 17=-115, 18=-115, 21=-47, 22=-47

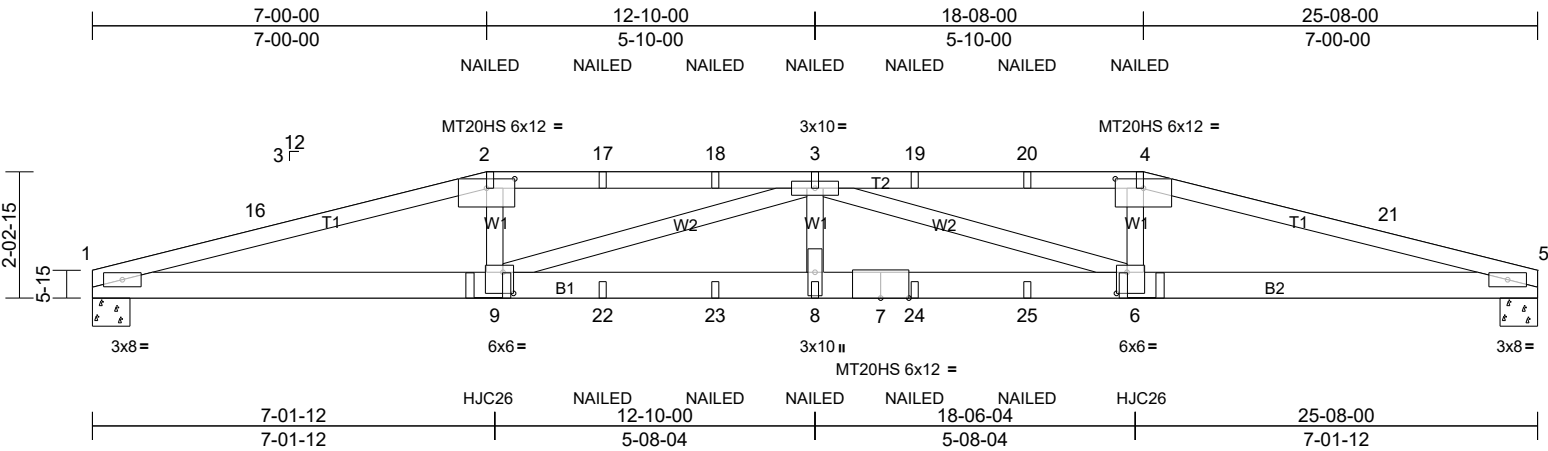
Job J2602880	Truss HG6	Truss Type Hip Girder	Qty 2	Ply 2	De la Concepcion-8965 Job Reference (optional)	RT00114668
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Royal Truss,Medley,FL

Run: 26.10 S May 11 2026 Print: 26.1.0 S May 11 2026 MiTek Industries, Inc. Wed Jun 03 10:36:05

Page: 1

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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		BRACING	
TOP CHORD	2x4 SP 2400F 2.0E	TOP CHORD	Structural wood sheathing directly applied or 5-2-0 oc purlins.
BOT CHORD	2x6 SP 2400F 2.0E	BOT CHORD	Rigid ceiling directly applied or 6-9-12 oc bracing.
WEBS	2x4 SP No.2		

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**
- 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.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 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.
 - 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.
 - Fill all nail holes where hanger is in contact with lumber.
 - "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

Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	HG6	Hip Girder	2	2	RT00114668
					Job Reference (optional)

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

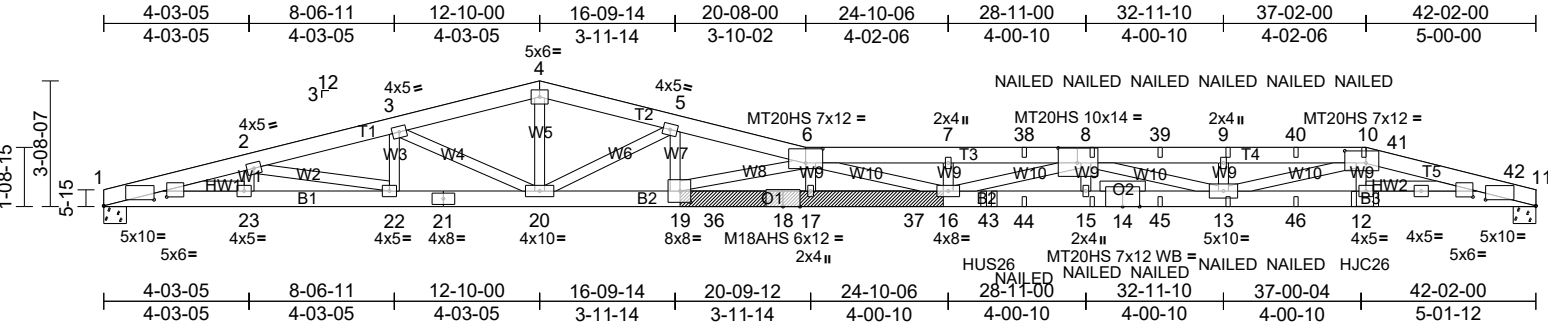
Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	HG7	Roof Special Girder	2	3	RT00114669
					Job Reference (optional)

Royal Truss,Medley,FL

Run: 25.30 S Oct 16 2025 Print: 26.1.0 S May 11 2026 MiTek Industries, Inc. Wed Jun 03 10:36:05

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Page: 1



Job	Truss	Truss Type	Qty	Ply	De la Concepcion-8965
J2602880	HG7	Roof Special Girder	2	3	RT00114669
					Job Reference (optional)

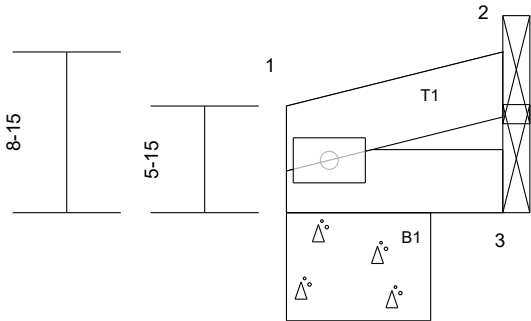
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2056 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

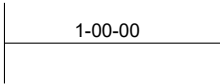
- 1) Dead + Roof Live (balanced): Lumber Increase=1.33, Plate Increase=1.33
- Uniform Loads (lb/ft)
- Vert: 1-4=-90, 4-6=-90, 6-10=-90, 10-11=-90, 24-30=-20
- Concentrated Loads (lb)
- Vert: 10=-115, 12=-420, 15=-47, 8=-115, 13=-47, 9=-115, 38=-115, 39=-115, 40=-115, 43=-1487, 44=-47, 45=-47, 46=-47

Job J2602880	Truss J1	Truss Type Jack-Open	Qty 46	Ply 1	De la Concepcion-8965 Job Reference (optional)	RT00114670
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12
3



2.5x4 =



Scale = 1:10.7

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

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

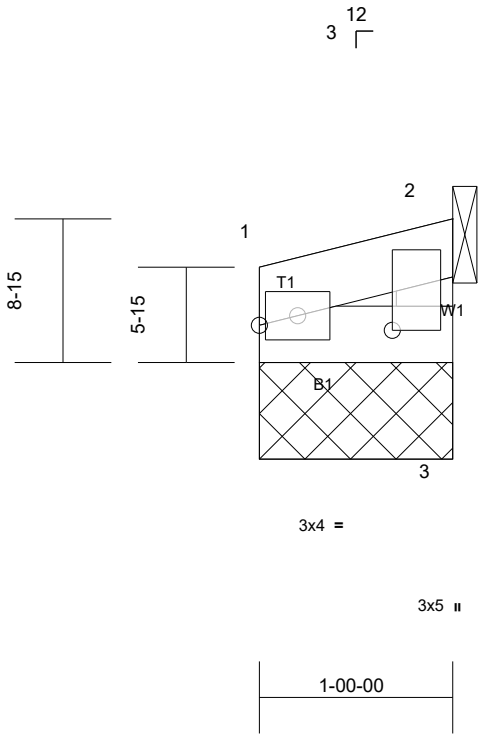
BRACING

TOP CHORD
BOT CHORD

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

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

Job J2602880	Truss J1A	Truss Type Jack-Open	Qty 4	Ply 1	De la Concepcion-8965 Job Reference (optional) RT00114671
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Scale = 1:12

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

BRACING

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 1-0-0 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 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)

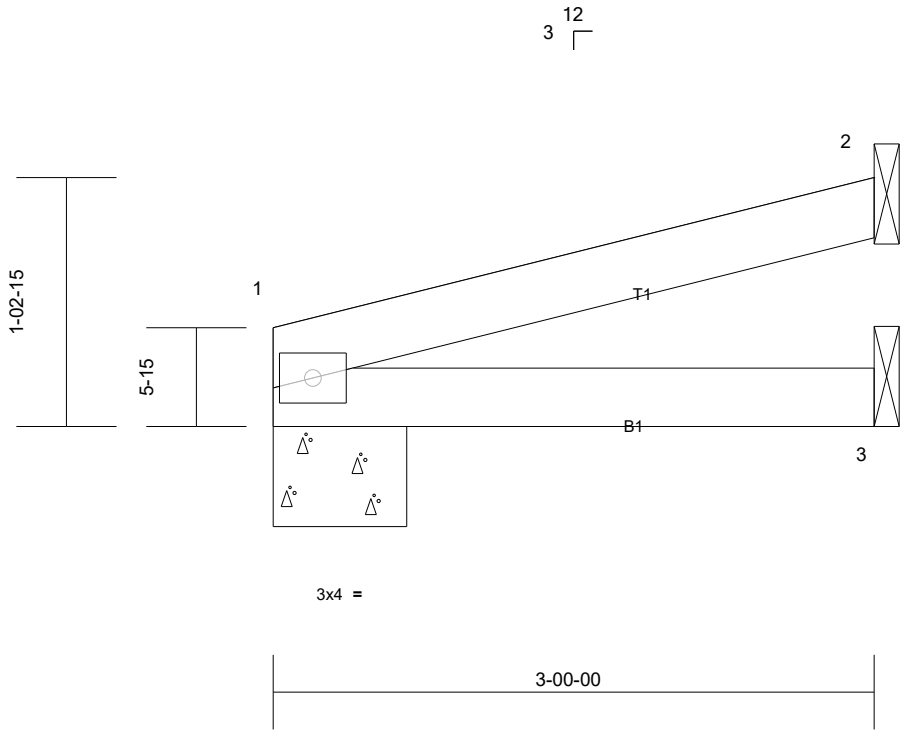
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

- 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- 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 2, 1.

LOAD CASE(S) Standard

Job J2602880	Truss J3	Truss Type Jack-Open	Qty 46	Ply 1	De la Concepcion-8965 Job Reference (optional)	RT00114672
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Scale = 1:11.6

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

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.

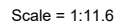
BRACING
TOP CHORD
BOT CHORD

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

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

LOAD CASE(S) Standard

Royal Truss, Medley, FL Run: 26.10 S May 11 2026 Print: 26.1.0 S May 11 2026 MiTek Industries, Inc. Wed Jun 03 10:36:05 Page: 1
ID: m_bp2zepA5KuONSGck0IGQzi7Hl-QYnWEVBcCegngrVePHmDBuJugsUnCVvRk7qUvMzA1Qf



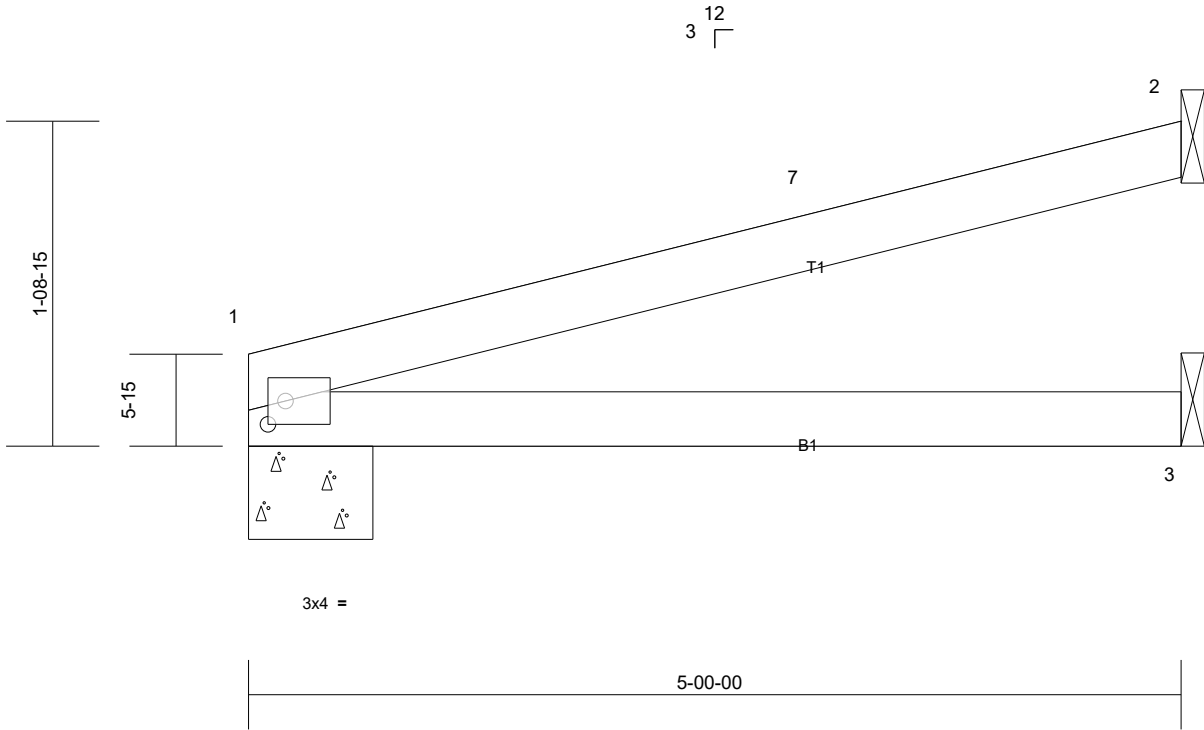
Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.21	Vert(LL)	0.00	6	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.30	Vert(CT)	-0.01	6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	1	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP		Wind(LL)	0.01	3-6	>999	240	Weight: 11 lb	FT = 20%

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

- 1) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDD=5.0psf; BCDD=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.
- 7) Gap between inside of extended chord bearing and first diagonal or vertical web shall not exceed 0.500in at joint 2.

LOAD CASE(S) Standard

Job J2602880	Truss J5	Truss Type Jack-Open	Qty 60	Ply 1	De la Concepcion-8965 Job Reference (optional)	RT00114674
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Scale = 1:12.4

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)

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

NOTES

- 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 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.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

BRACING

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied.
Rigid ceiling directly applied.

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

Job J2602880	Truss J5A	Truss Type Jack-Open	Qty 4	Ply 1	De la Concepcion-8965 Job Reference (optional)	RT00114675
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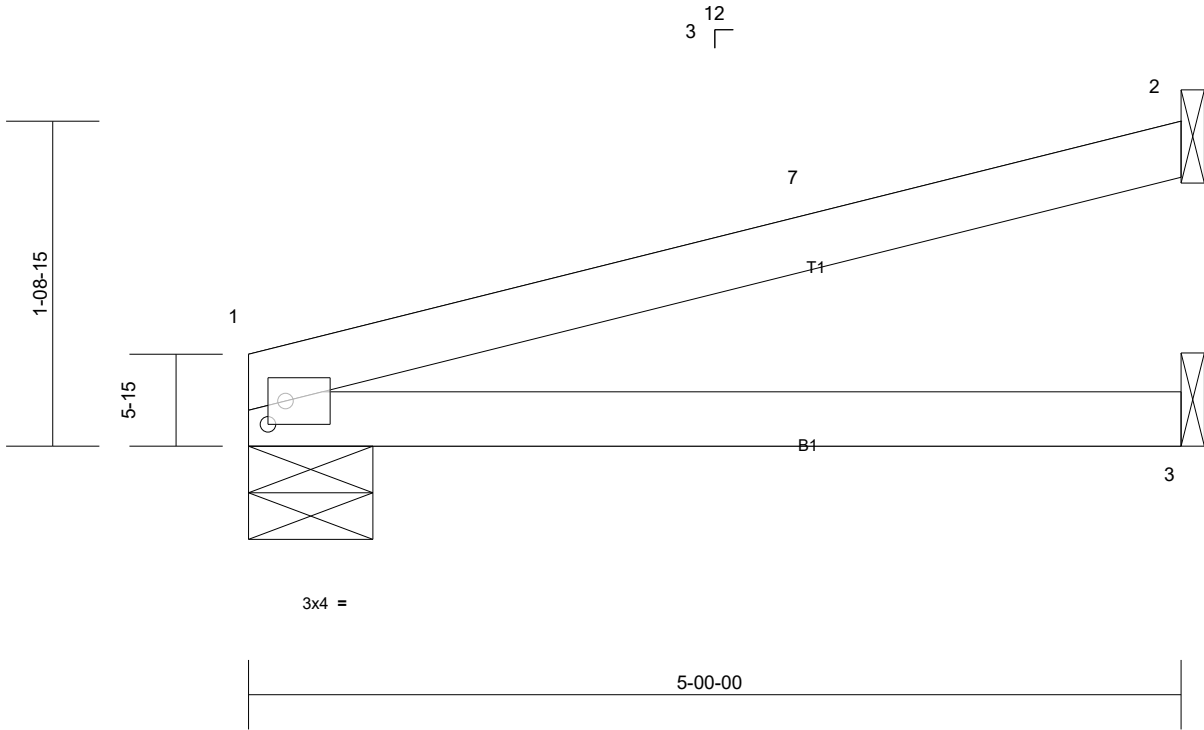


Plate Offsets (X, Y): [1:1-02,1-08]

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)

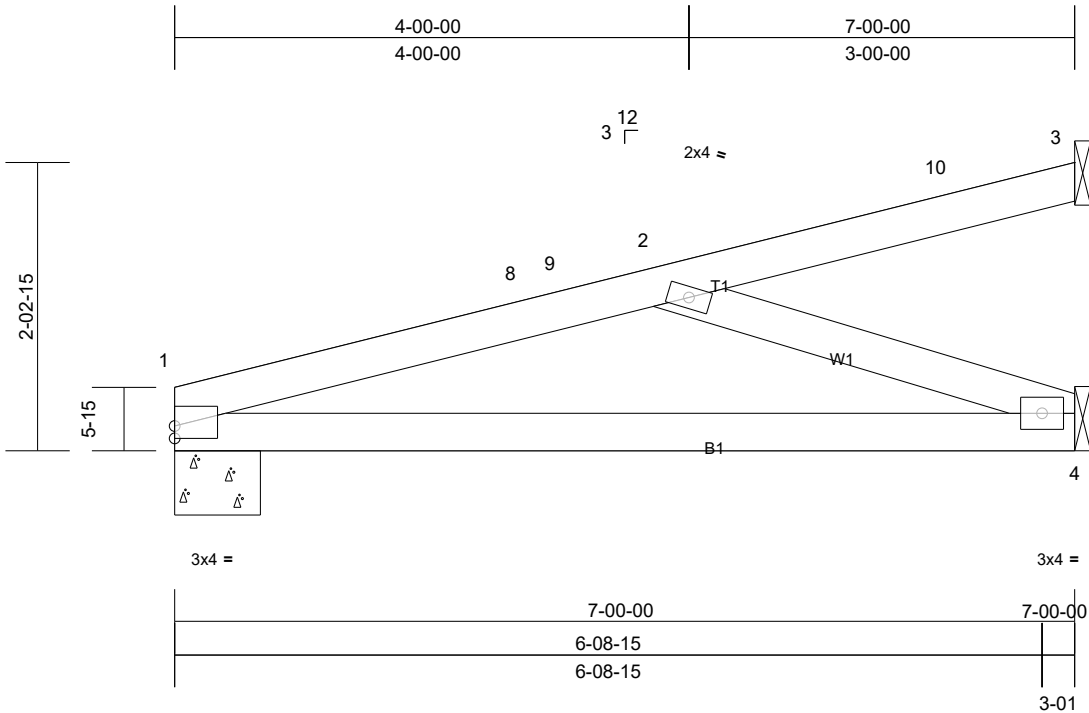
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 1-3=-372/165

- 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
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

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.

Job J2602880	Truss J7	Truss Type Jack-Open	Qty 14	Ply 1	De la Concepcion-8965 Job Reference (optional)	RT00114676
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Scale = 1:18

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

NOTES

- 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 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.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

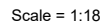
BRACING

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied.
Rigid ceiling directly applied.

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

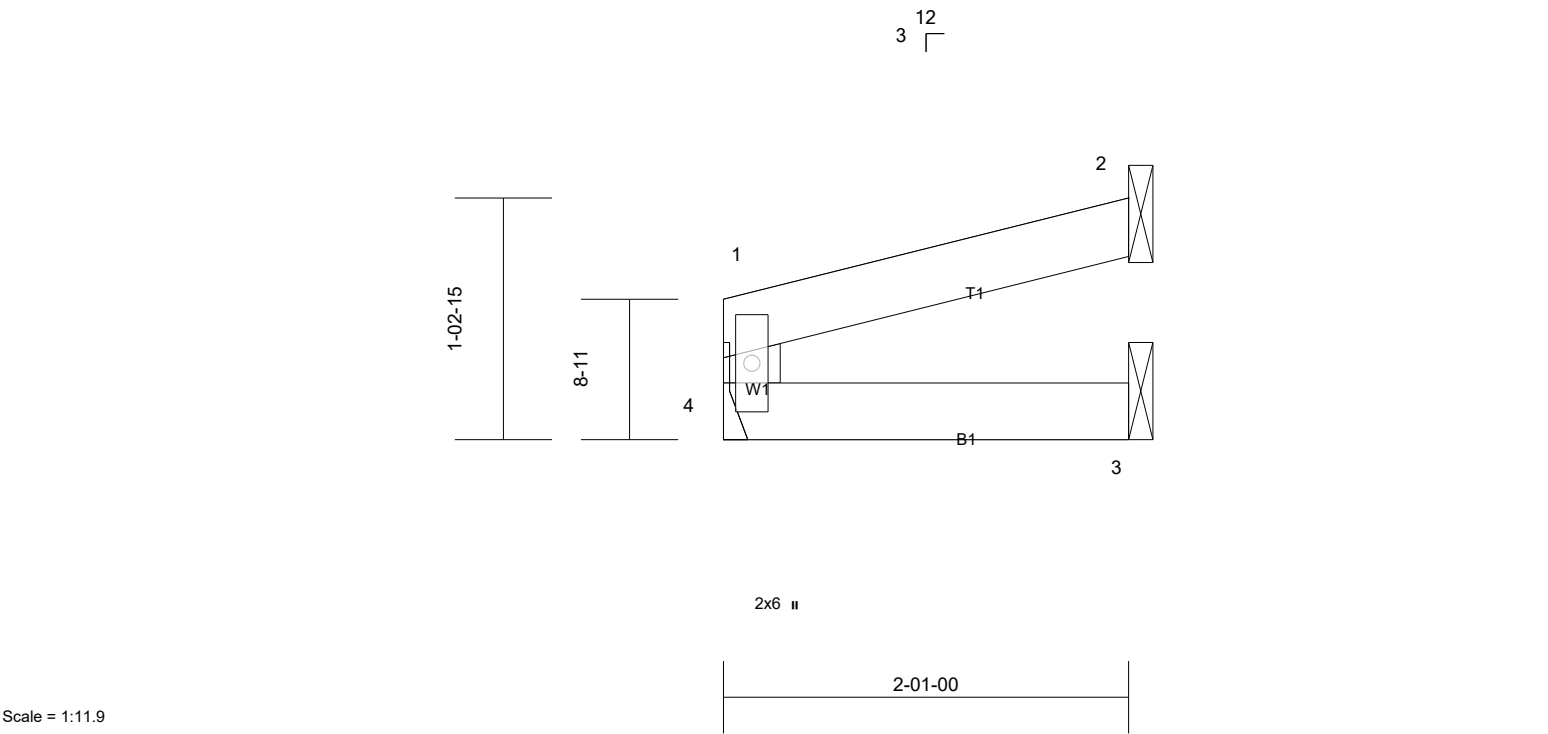
Royal Truss, Medley, FL Run: 26.10 S May 11 2026 Print: 26.1.0 S May 11 2026 MiTek Industries, Inc. Wed Jun 03 10:36:05 Page: 1
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Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	Plate Grip DOL	1.33	TC	0.47	Vert(LL)	-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%

LOAD CASE(S) Standard

Job J2602880	Truss J21	Truss Type Jack-Open	Qty 2	Ply 1	De la Concepcion-8965 Job Reference (optional)	RT00114678
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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%

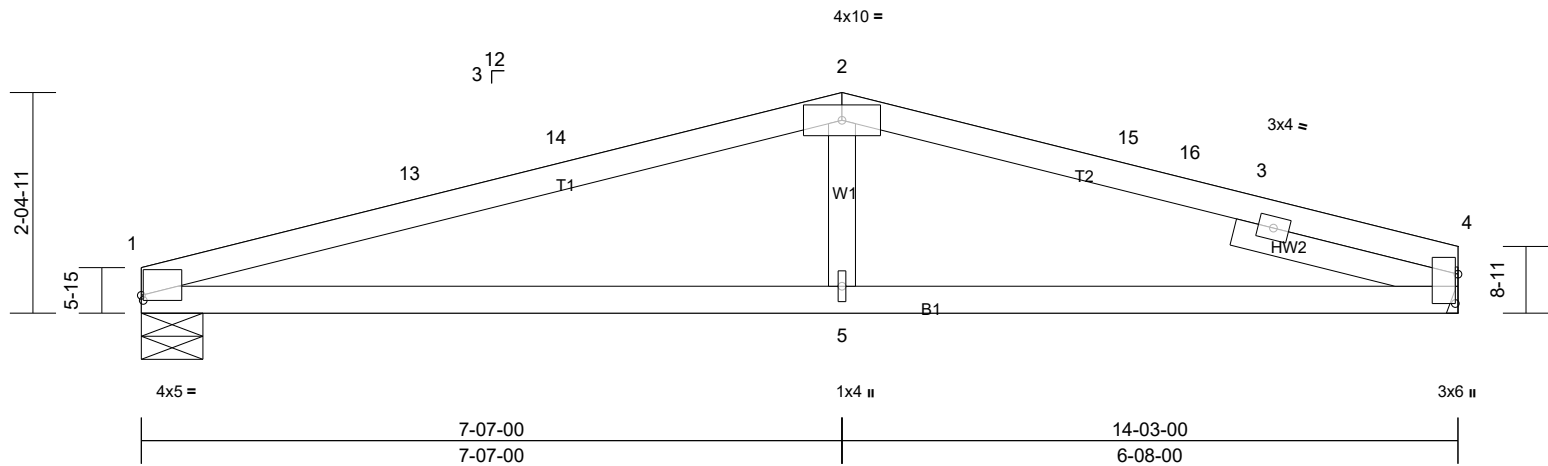
LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-1-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
REACTIONS	(lb/size) 2=78/ Mechanical, 3=25/ Mechanical, 4=103/ 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**
- Unbalanced roof live loads have been considered for this design.
 - 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Refer to girder(s) for truss to truss connections.
 - 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.
 - Non Standard bearing condition. Review required.

LOAD CASE(S) Standard

Job J2602880	Truss T1	Truss Type Common	Qty 8	Ply 1	De la Concepcion-8965 Job Reference (optional)	RT00114679
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Scale = 1:25

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

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)

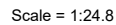
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-1621/1647, 13-14=-1543/1649, 2-14=-1529/1658, 2-15=-1495/1691, 15-16=-1548/1684, 3-16=-1562/1683,
3-4=-466/448
BOT CHORD 1-5=-1493/1497, 4-5=-1493/1497
WEBS 2-5=0/287

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - 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.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

BRACING
TOP CHORD
BOT CHORD

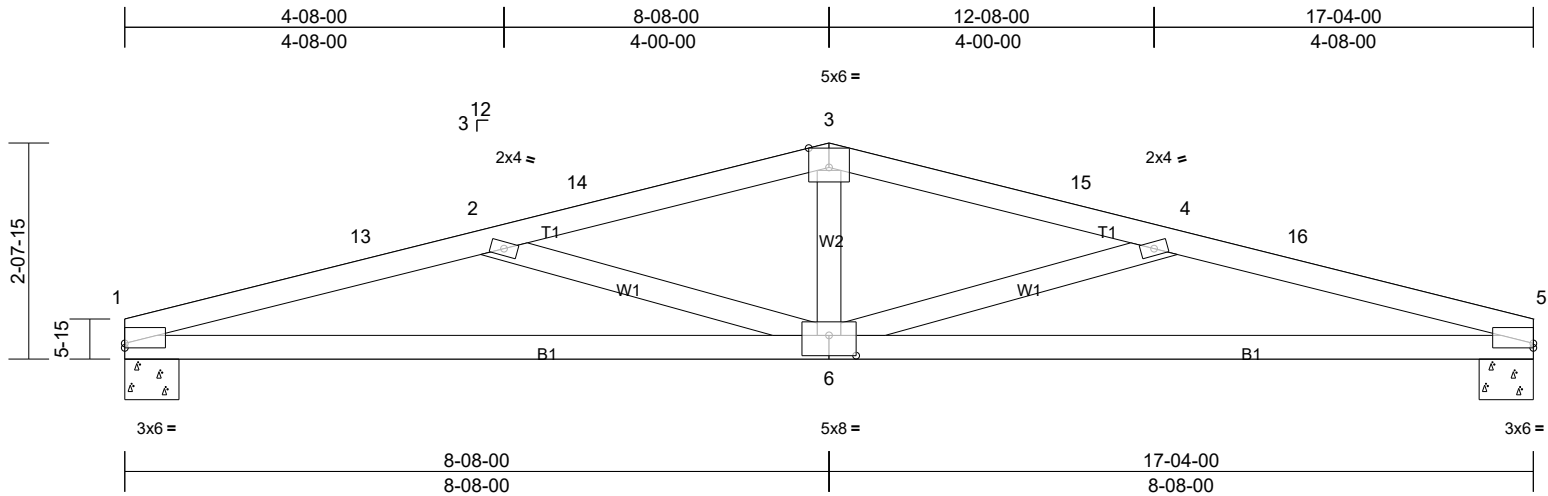
Structural wood sheathing directly applied.
Rigid ceiling directly applied.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

Page: 1

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%

LOAD CASE(S) Standard

Job J2602880	Truss T3	Truss Type Common	Qty 10	Ply 1	De la Concepcion-8965 Job Reference (optional)	RT00114681
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Scale = 1:28.5

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
BOT CHORD

Structural wood sheathing directly applied.
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)

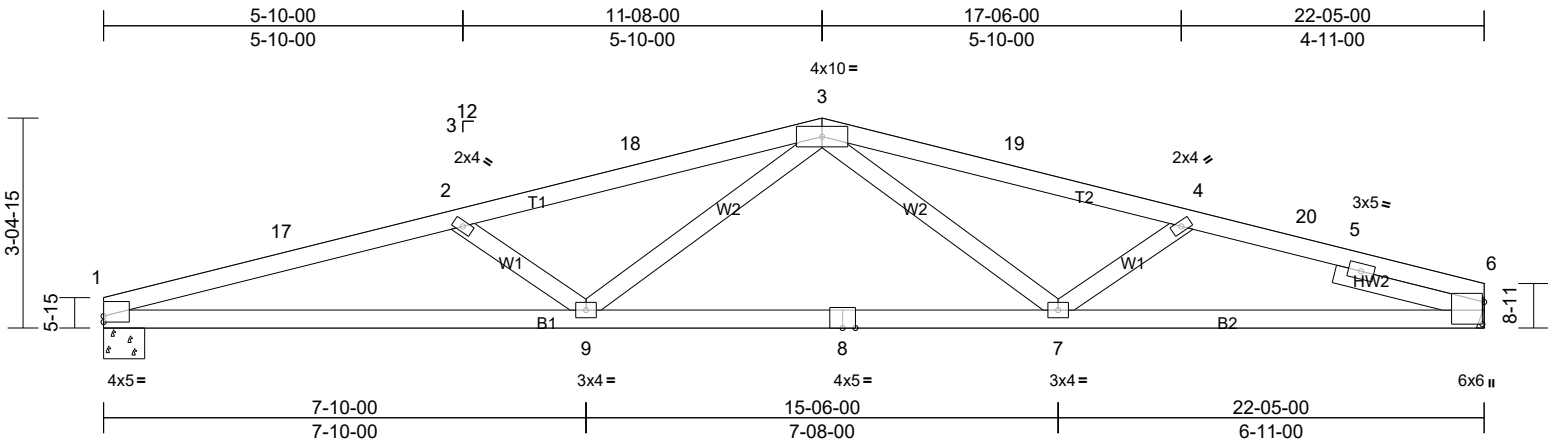
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-2508/2198, 2-13=-2451/2207, 2-14=-1921/1643, 3-14=-1889/1650, 3-15=-1889/1650, 4-15=-1921/1643, 4-16=-2451/2207, 5-16=-2508/2198
BOT CHORD 1-6=-2040/2380, 5-6=-2035/2380
WEBS 3-6=-273/482, 2-6=-652/681, 4-6=-652/684

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 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.
- 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 J2602880	Truss T4	Truss Type Common	Qty 11	Ply 1	De la Concepcion-8965 Job Reference (optional)	RT00114682
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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

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.

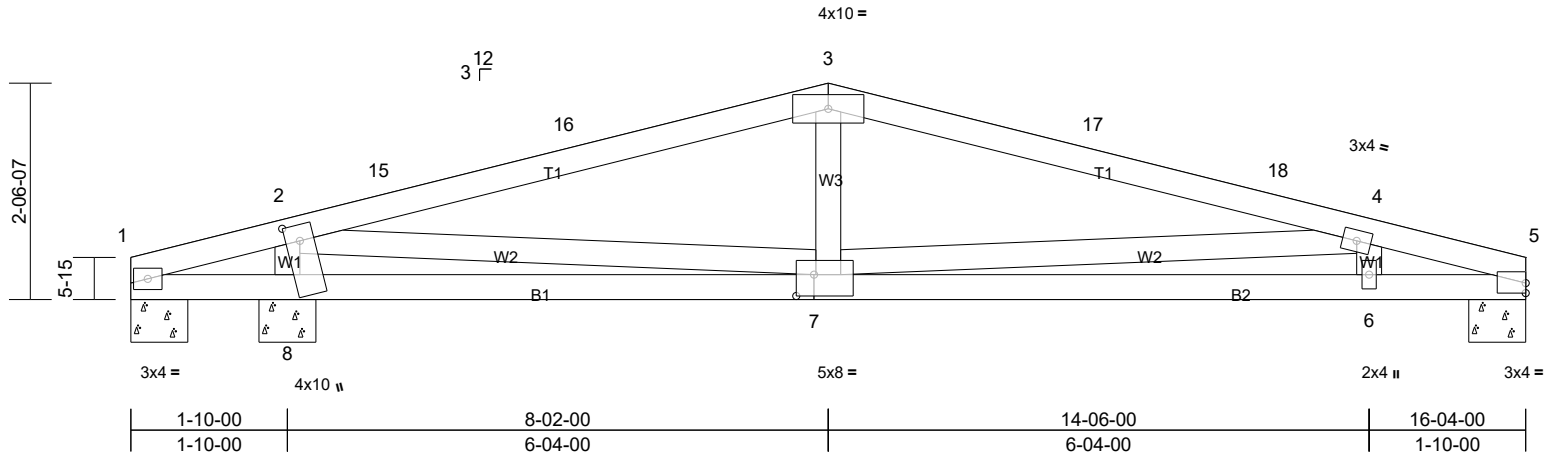
BRACING

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.
Rigid ceiling directly applied.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
- LOAD CASE(S) Standard

Job J2602880	Truss T5	Truss Type Common	Qty 5	Ply 1	De la Concepcion-8965 Job Reference (optional)	RT00114683
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Scale = 1:27.1

Plate Offsets (X, Y): [5:Edge,1-06], [7:2-08,3-00], [8:2-04,2-00]

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	0.90	Vert(LL)	-0.10	6-7	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.69	Vert(CT)	-0.21	6-7	>829	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.17	6-7	>999	240	Weight: 72 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied.
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=-79/8-00, (min. 1-08), 5=775/8-00, (min. 1-08), 8=1100/8-00, (min. 1-08)
Max Horiz 1=-91 (LC 13)
Max Uplift 1=-90 (LC 21), 5=-538 (LC 9), 8=-801 (LC 8)
Max Grav 1=117 (LC 12), 5=775 (LC 1), 8=1100 (LC 1)

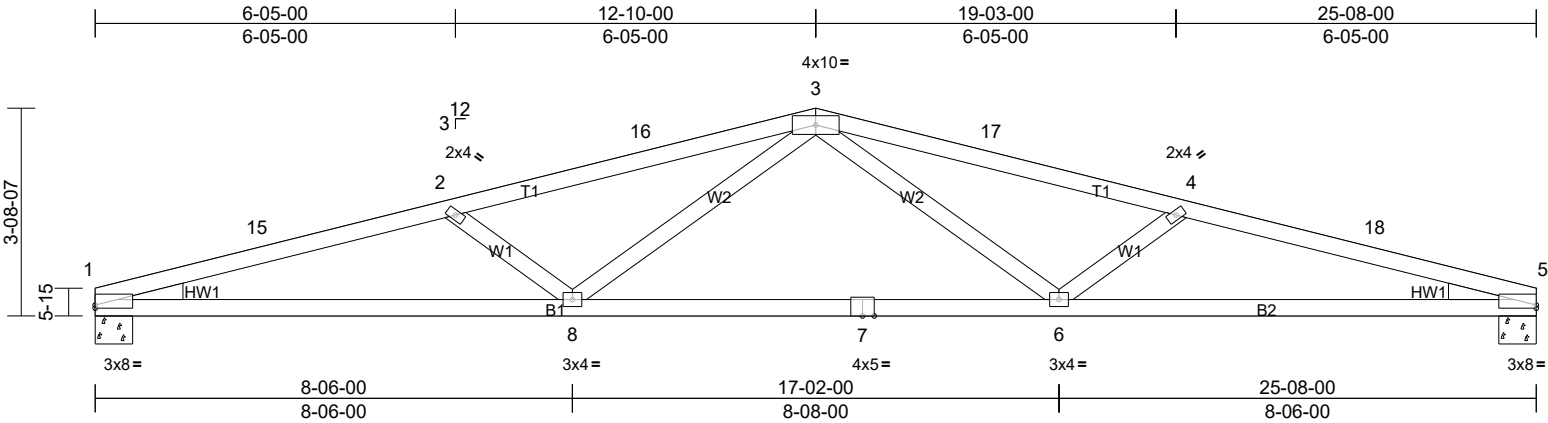
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-15=-1437/1266, 15-16=-1366/1273, 3-16=-1365/1280, 3-17=-1352/1296, 17-18=-1360/1288, 4-18=-1425/1284, 4-5=-2040/1900
BOT CHORD 6-7=-1815/1968, 5-6=-1815/1968
WEBS 2-8=-1032/1132, 2-7=-1104/1291, 4-6=-121/306, 4-7=-788/732

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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 8-2-0, Exterior(2R) 8-2-0 to 11-2-0, Interior (1) 11-2-0 to 16-4-0 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 90 lb uplift at joint 1, 538 lb uplift at joint 5 and 801 lb uplift at joint 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 J2602880	Truss T6	Truss Type Common	Qty 4	Ply 1	De la Concepcion-8965 Job Reference (optional)	RT00114684
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Scale = 1:41.2

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
BOT CHORD

Structural wood sheathing directly applied.
Rigid ceiling directly applied.

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

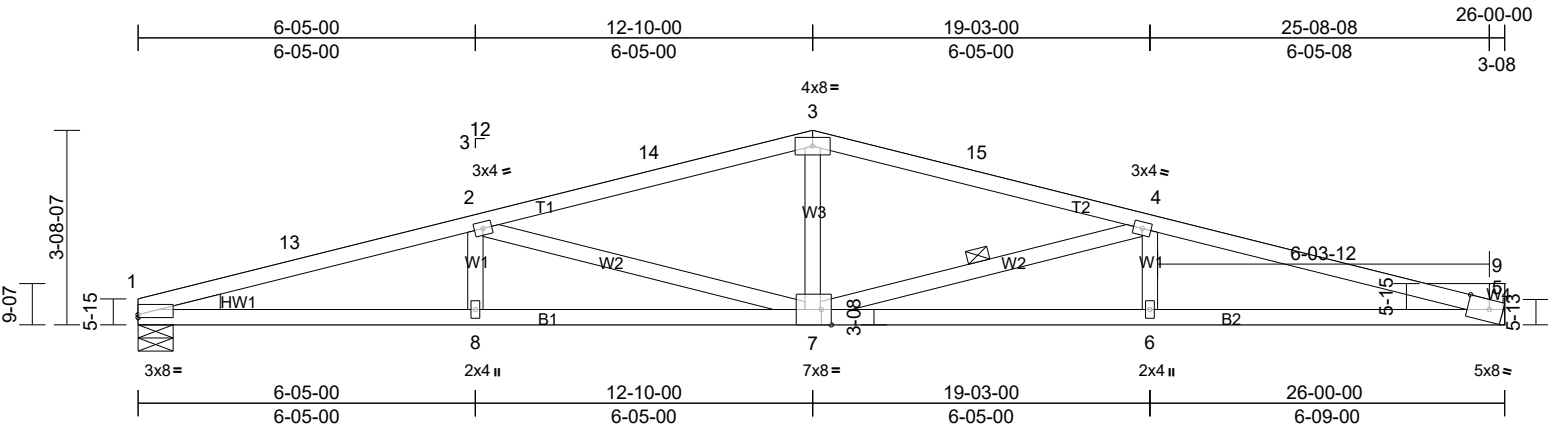
REACTIONS (lb/size) 1=1412/8-00, (min. 1-08), 5=1412/8-00, (min. 1-08)
Max Horiz 1=143 (LC 12)
Max Uplift 1=-942 (LC 8), 5=-942 (LC 9)

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**
- Unbalanced roof live loads have been considered for this design.
 - 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 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.
 - 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 J2602880	Truss T7	Truss Type Roof Special	Qty 2	Ply 1	De la Concepcion-8965 Job Reference (optional)	RT00114685
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Scale = 1:44

Plate Offsets (X, Y): [1:Edge,0-10], [5:4-15,Edge], [7:2-04,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	0.53	Vert(LL)	-0.25	7-8	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.33	BC	0.47	Vert(CT)	-0.47	7-8	>666	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.12	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.35	7-8	>879	240	Weight: 109 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.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-5-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-6-14 oc bracing.
WEBS 1 Row at midpt 4-7

REACTIONS (lb/size) 1=1422/8-00, (min. 1-08), 5=1422/ Mechanical
Max Horiz 1=-216 (LC 13)
Max Uplift 1=-949 (LC 8), 5=-952 (LC 9)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-4077/3067, 2-13=-4004/3080, 2-14=-2942/2277, 3-14=-2867/2284, 3-15=-2871/2273, 4-15=-2946/2266, 4-5=-4289/3198
BOT CHORD 1-8=-2967/3885, 7-8=-2967/3885, 6-7=-3039/4070, 5-6=-3039/4070
WEBS 2-7=-1248/1066, 3-7=-520/839, 4-7=-1413/1201, 4-6=0/266

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 949 lb uplift at joint 1 and 952 lb uplift at joint 5.

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

LOAD CASE(S) Standard

Royal Truss, Medley, FL Run: 26.10 S May 11 2026 Print: 26.1.0 S May 11 2026 MiTek Industries, Inc. Wed Jun 03 10:36:05 Page: 1
ID: BEbMQGAjDlSTkmyAKsRUaszi6ry-QYnWEVBcCegngrVePHmDBuJjusJ9CHXRk7qUvMzA1Qf



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%

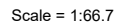
REACTIONS (lb/size) 1=1422/8-00, (min. 1-11), 7=1422/ Mechanical Max Horiz 1=190 (LC 12) Max Uplift 1=-945 (LC 8), 7=-953 (LC 9)	Installation guide.
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NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDD=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
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Royal Truss, Medley, FL Run: 25.30 S Oct 16 2025 Print: 26.1.0 S May 11 2026 MiTek Industries, Inc. Wed Jun 03 10:36:05 Page: 1
ID:gWGRvs0?zv9h6NkRtsAf97zi6gt-QYnWEVBcCegngrVePHmDBuJIRsK5CGIRk7qUvMzA1Qf



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%

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

TOP CHORD
BOT CHORD
WEBS

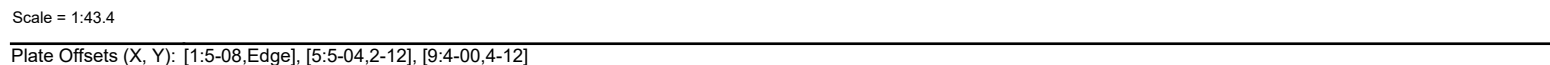
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-24=-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=-1707/1499, 6-14=-1707/1499, 4-15=-195/472, 6-12=-195/472, 2-15=-1055/903, 8-12=-1055/905

- 2) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TC DL=5.0psf; BC DL=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

Royal Truss, Medley, FL Run: 26.10 S Oct 16 2025 Print: 26.10 S May 11 2026 Mitek Industries, Inc. Wed Jun 03 10:36:05 Page: ID: 15DuMSI6mndVRp2?eabl?hzi6pC-QYnWEVBcCeanqrVePHmDBU.jpVsQlCPkRk7dUVMzA1Q



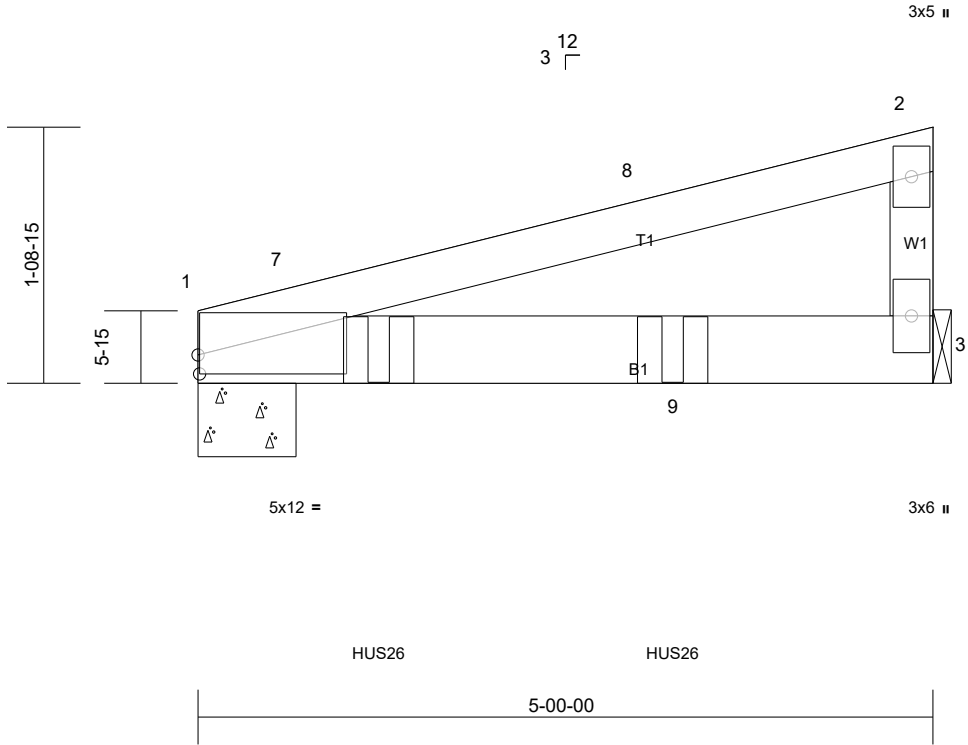
LUMBER		BRACING	
TOP CHORD	2x6 SP No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.2		
REACTIONS (lb/size) 1=1183/8-00, (min. 1-08), 8=-1858/2-00-00, (min. 1-08), 9=3528/2-00-00, (min. 1-08)			
	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
- 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.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 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.
 - 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.
 - 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.
 - 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 J2602880	Truss TG1	Truss Type Jack-Closed Girder	Qty 2	Ply 1	De la Concepcion-8965 Job Reference (optional)	RT00114689
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ID:GNK8N9q4e_2O5QBGfMtqFmzi6oX-QYnWEVBcCegngrVePHmDBuJousMgCVvRk7qUvMzA1Qf



Scale = 1:15.7

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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - 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.
 - Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-2-12 from the left end to 3-2-12 to connect truss (es) T7 (1 ply 2x4 SP), T8 (1 ply 2x4 SP) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - WARNING: The following hangers are manually applied but fail due to geometric considerations: HUS26 on back face at 1-2-12 from the left end.

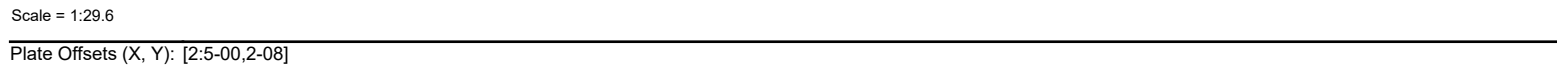
LOAD CASE(S) Standard

- 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

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.

Royal Truss, Medley, FL Run: 25.30 S Oct 16 2025 Print: 26.1.0 S May 11 2026 MiTek Industries, Inc. Wed Jun 03 10:36:05 Page: 1
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LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP 2400F 2.0E OTHERS 2x4 SP No.2	BRACING TOP CHORD BOT CHORD	Structural wood sheathing directly applied. Rigid ceiling directly applied.
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)		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 1-2=-424/616, 2-3=-362/250		
BOT CHORD 1-4=-701/484, 3-4=-222/450		
WEBS 2-4=-549/1123		

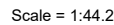
Structural wood sheathing directly applied.
Rigid ceiling directly applied.

MiTec recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
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- ### 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; TCDD=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" 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'-0" tall by 2'-0" wide will fit between the bottom chord and any other members.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 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.

LOAD CASE(S) Standard

Royal Truss, Medley, FL Run: 25.30 S Oct 16 2025 Print: 26.1.0 S May 11 2026 MiTek Industries, Inc. Wed Jun 03 10:36:05 Page: 1
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LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP 2400F 2.0E OTHERS 2x4 SP No.2 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 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	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.
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Structural wood sheathing directly applied.
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) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=175mph (3-second gust) Vasd=136mph; HVHZ; TCDDL=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" 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.

LOAD CASE(S) Standard