



RE: 22-0558-A1 - LINCOLN MODEL III

MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017

**Site Information:** 

Customer Info: SG BUILD COMPANY Project Name: - Model: NA

Lot/Block: NA Subdivision: NA

Address: LOT 18 NW SAVANNAH CIR, -

City: LAKE CITY State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: License #:

Address:

City: State:

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

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.6

Wind Code: ASCE 7-16 Wind Speed: 150 mph Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 45 individual, 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.

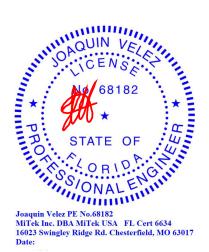
1 T29090842 T-1 10/31/22 23 T29090864 T-24	10/31/22 10/31/22
2 T29090843 T-2 10/31/22 24 T29090865 T-25 3 T29090844 T-3 10/31/22 25 T29090866 T-26 4 T29090845 T-4 10/31/22 26 T29090867 T-27 5 T29090846 T-5 10/31/22 27 T29090868 T-28 6 T29090847 T-6 10/31/22 28 T29090869 T-29	10/31/22 10/31/22 10/31/22 10/31/22
7 T29090848 T-7 10/31/22 29 T29090870 T-30 8 T29090849 T-8 10/31/22 30 T29090871 J10 9 T29090850 T-9 10/31/22 31 T29090872 J7 10 T29090851 T-10 10/31/22 32 T29090873 J7A 11 T29090852 T-11 10/31/22 33 T29090874 J7B 12 T29090853 T-12 10/31/22 34 T29090875 J7T 13 T29090854 T-14 10/31/22 35 T29090876 J5-7 14 T29090855 T-15 10/31/22 35 T29090876 J5-7 14 T29090856 T-16 10/31/22 36 T29090877 J5-7T 15 T29090856 T-16 10/31/22 37 T29090878 CJ9 16 T29090857 T-17 10/31/22 38 T29090879 CJ7 17 T29090858 T-18 10/31/22 39 T29090880 CJ5 18 T29090859 T-19 10/31/22 40 T29090881 CJ3 19 T29090860 T-20 10/31/22 41 T29090882 CJ1 20 T29090861 T-21 10/31/22 42 T29090884 HJ14-1 21 T29090863 T-23 10/31/22 44 T29090885 HJ14-1 22 T29090863 T-23 10/31/22 44 T29090885 HJ14-1	10/31/22 10/31/22 10/31/22 10/31/22 10/31/22 10/31/22 10/31/22 10/31/22 10/31/22 10/31/22 10/31/22 10/31/22 10/31/22 10/31/22

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Arnold Truss Mfg. LLC.

Truss Design Engineer's Name: Velez, Joaquin

My license renewal date for the state of Florida is February 28, 2023.

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



October 31,2022



RE: 22-0558-A1 - LINCOLN MODEL III

MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017

### **Site Information:**

Customer Info: SG BUILD COMPANY Project Name: - Model: NA Lot/Block: NA Subdivision: NA

Lot/Block: NA Address: LOT 18 NW SAVANNAH CIR, -

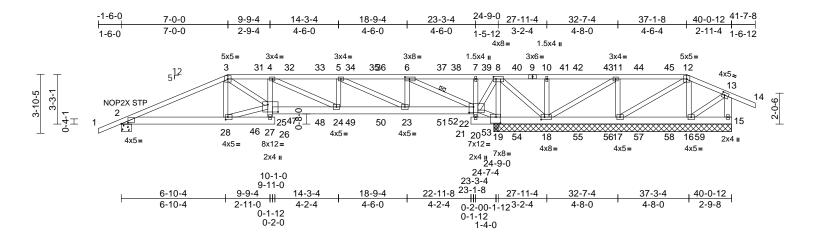
City: LAKE CITY State: FL

Truss Name Date No. Seal# 45 T29090886 HJ2-4 10/31/22

Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	T-1	Hip Girder	1	1	Job Reference (optional)	T29090842

Run: 8.62 E Aug 31 2022 Print: 8.620 E Aug 31 2022 MiTek Industries, Inc. Mon Oct 31 08:42:23 ID:PJKV0rFQ\_3Jbwv1\_ggS1?\_yy8hk-drwVnAXrv3mzHtjw69lu0Yb39Ksy\_EfZlOalAmyNyrF

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1 tate 013663 (A, 1). [2.0 0 0,0 0 14], [0.0 0 0,0 1 0], [0.0 2 0,0 1 12], [10.0 1 12,0 2 0], [10.0 2 12,0 2 0], [10.0 0 0,0 1 12], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0 0,0 1 0], [22.0 0,0 1 0], [22.0 0,0 1 0], [22.0 0,0 1 0], [22.0 0,0 1 0], [22.0 0,0 1 0], [22.0 0,0 1 0], [22.0 0,0 1 0], [22.0 0,0 1 0], [22.0													
Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.73	Vert(LL)	-0.21	26	>999	360	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.39	26	>771	240			
BCLL	0.0*	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.11	19	n/a	n/a			

V)· [2:0.5-5.0.0.1/1] [6:0.3-8.0.1-8] [8:0.2-0.0.1-12] [13:0.1-12.0.2-0] [18:0.2-12.0.2-0] [10:0.3-8.0.4-12] [22:0.3-8.0.4-8] [25:0.8-0.0.5-12] [28:0.1-12.0.2-0]

LUMBER			BOT CHORD	2-28=-1226/2866	6, 25-47=-2	2035/4512,	8)	Pro	vide me	chanic	al connection (by	others) of truss	s to
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.29	26	>999	240	Weight: 254 lb	FT = 20%	
BCLL	0.0*	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.11	19	n/a	n/a			
TCDL	7.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.39	26	>771	240			
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.73	Vert(LL)	-0.21	26	>999	360	MT20	244/190	

2x4 SP No.1 \*Except\* 9-12:2x4 SP M 31 TOP CHORD

**BOT CHORD** 2x6 SP No.1 WEBS

2x4 SP No.2 \*Except\* 15-13:2x6 SP No.1 **BRACING** 

TOP CHORD Structural wood sheathing directly applied or 2-10-4 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 4-2-6 oc

bracing.

WFBS 1 Row at midnt 6-22

REACTIONS All bearings 15-7-4. except 2=0-8-0

(lb) - Max Horiz 2=171 (LC 7)

Max Uplift All uplift 100 (lb) or less at joint(s) except 2=-788 (LC 8), 15=-209 (LC 17), 16=-258 (LC 8), 17=-233 (LC 5), 18=-220 (LC 13), 19=-2017 (LC

Max Grav All reactions 250 (lb) or less at joint (s) 15, 18 except 2=1499 (LC 17),

16=633 (LC 1), 17=529 (LC 18),

19=4136 (LC 17) **FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown. TOP CHORD 2-3=-3169/1485, 3-31=-4424/2194 4-31=-4424/2194, 4-32=-3326/1724

32-33=-3326/1724, 5-33=-3326/1724, 5-34=-1197/690. 34-35=-1197/690. 35-36=-1197/690, 6-36=-1197/690, 6-37=-1114/2427, 37-38=-1114/2427, 7-38=-1114/2427, 7-39=-1083/2385, 8-39=-1083/2385, 8-40=-798/1667,

9-40=-798/1667, 9-10=-798/1667, 10-41=-798/1667, 41-42=-798/1667 42-43=-798/1667, 11-43=-798/1667, 11-44=-312/714, 44-45=-312/714,

12-45=-312/714, 12-13=-135/336, 13-15=-61/266

47-48=-2035/4505, 24-48=-2035/4500, 24-49=-1525/3326, 49-50=-1525/3326, 23-50=-1525/3326, 23-51=-573/1197, 51-52=-573/1197, 22-52=-573/1197, 19-54=-3100/1650, 18-54=-3100/1650, 18-55=-714/464, 55-56=-714/464, 17-56=-714/464, 17-57=-291/227, 57-58=-291/227, 16-58=-291/227

**WEBS** 4-25=0/297, 7-22=-461/379, 3-28=-318/354,

25-28=-1232/2863. 3-25=-965/1929. 13-16=-305/170, 4-24=-1305/563, 5-24=-85/582. 5-23=-2383/1152. 6-23=-490/1340, 6-22=-4054/2023 10-18=-444/400, 11-18=-1126/611, 12-17=-523/280, 8-19=-2406/1234

19-22=-3258/1728, 8-22=-641/1208, 8-18=-898/1933

### NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

bearing plate capable of withstanding 788 lb uplift at joint 2, 208 lb uplift at joint 15, 258 lb uplift at joint 16, 219 lb uplift at joint 18, 232 lb uplift at joint 17 and 2017 lb uplift at joint 19.



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31.2022

### Continued on page 2

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not Design Valid to its 9 this with Min New Commercials. This design is based only upon parameters shown, and is 10 at an individual obtaining Component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

\*\*ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	T-1	Hip Girder	1	1	Job Reference (optional)	T29090842

ID:PJKV0rFQ\_3Jbwv1\_qgS1?\_yy8hk-drwVnAXrv3mzHtjw69lu0Yb39Ksy\_EfZlOalAmyNyrF

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Page: 2

Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 210 lb down and 209 lb up at 7-0-0, 114 lb down and 125 lb up at 9-0-12, 106 lb down and 108 lb up at 11-0-12, 106 lb down and 108 lb up at 13-0-12, 106 lb down and 108 lb up at 15-0-12, 106 lb down and 108 lb up at 17-0-12, 106 lb down and 108 lb up at 19-0-12, 106 lb down and 108 lb up at 21-0-12, 106 lb down and 108 lb up at 22-0-0, 114 lb down and 125 lb up at 24-0-0, 114 Ib down and 125 lb up at 26-0-0, 114 lb down and 125 lb up at 28-0-0, 114 lb down and 125 lb up at 30-0-0, 114 lb down and 125 lb up at 32-0-0, and 114 lb down and 125 lb up at 34-0-0, and 114 lb down and 125 lb up at 36-0-0 on top chord, and 355 lb down and 58 lb up at 7-0-0, 81 lb down at 9-0-12, 77 lb down and 15 lb up at 11-0-12, 77 lb down and 15 lb up at 13-0-12, 77 lb down and 15 lb up at 15-0-12, 77 lb down and 15 lb up at 17-0-12, 77 lb down and 15 lb up at 19-0-12, 77 lb down and 15 lb up at 21-0-12, 77 lb down and 15 lb up at 22-0-0, 81 lb down at 24-0-0, 81 lb down at 26-0-0, 81 lb down at 28-0-0, 81 lb down at 30-0-0, 81 lb down at 32-0-0, 81 lb down at 34-0-0, and 81 lb down at 36-0-0, and 242 lb down and 145 lb up at 38-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

### LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (lb/ft)

Vert: 1-3=-54, 3-12=-54, 12-13=-54, 13-14=-54, 2-26=-20, 22-25=-20, 15-21=-20

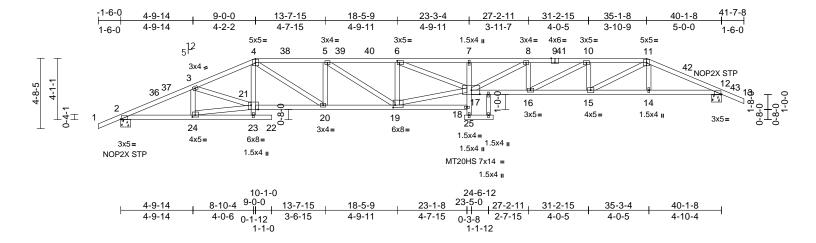
#### Concentrated Loads (lb)

Vert: 28=-346 (B), 3=-163 (B), 23=-70 (B), 6=-106 (B), 18=-60 (B), 10=-114 (B), 31=-114 (B), 32=-106 (B), 33=-106 (B), 34=-106 (B), 36=-106 (B), 37=-106 (B), 38=-106 (B), 39=-114 (B), 40=-114 (B), 42=-114 (B), 43=-114 (B), 44=-114 (B), 45=-114 (B), 46=-60 (B), 47=-70 (B), 48=-70 (B), 49=-70 (B), 50=-70 (B), 51=-70 (B), 52=-70 (B), 53=-60 (B), 54=-60 (B), 55=-60 (B), 56=-60 (B), 57=-60 (B), 58=-60 (B), 59=-242 (B)

Job	Truss	SS Truss Type Qty Ply LINCOLN MODEL III		LINCOLN MODEL III		
22-0558-A1	T-2	Hip	1	1	Job Reference (optional)	T29090843

Run: 8.62 S Aug 22 2022 Print: 8.620 S Aug 22 2022 MiTek Industries, Inc. Fri Oct 28 12:42:13 ID:ImwHcrt5UxvcCN4MZqI4L2yy8aT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Plate Offsets (X, Y): [2:0-0-6,Edge], [6:0-1-12,0-1-8], [9:0-3-0,Edge], [12:0-0-6,Edge], [17:0-6-12,0-3-4], [19:0-1-8,0-2-0], [21:0-5-12,Edge], [24:0-2-4,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	-0.72	17	>670	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-1.34	17	>360	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.29	12	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.98	17	>494	240	Weight: 222 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1

2x4 SP No.2 \*Except\* 19-17:2x4 SP No.1 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied. REACTIONS 2=0-8-0, 12=0-8-0 (size)

Max Horiz 2=115 (LC 11) Max Uplift 2=-786 (LC 12), 12=-794 (LC 12)

Max Grav 2=1583 (LC 1), 12=1570 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/31, 2-3=-3411/1677, 3-4=-3692/1819,

4-5=-4329/2194, 5-6=-4775/2386, 6-7=-6685/3305, 7-8=-6797/3353 8-10=-6102/3028, 10-11=-4822/2451, 11-12=-3368/1654, 12-13=0/31

BOT CHORD 2-24=-1516/3108, 23-24=-91/189, 22-23=0/0.

20-21=-1556/3383, 19-20=-2026/4329, 18-19=-125/276, 16-17=-2833/6102, 15-16=-2256/4822, 14-15=-1396/3058,

12-14=-1393/3064

**WEBS** 21-23=0/129, 4-21=-188/532, 18-25=0/0,

17-18=0/112, 7-17=-200/185, 3-21=-135/420, 11-14=0/174, 3-24=-422/301 21-24=-1445/2961, 4-20=-565/1223, 5-20=-593/385, 5-19=-292/604, 6-19=-1091/623, 17-19=-2159/4634, 8-17=-402/821, 8-16=-620/383,

10-15=-907/527, 10-16=-685/1464, 11-15=-1006/2065, 6-17=-971/2027

### NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 2-6-2, Interior (1) 2-6-2 to 9-0-0, Exterior (2R) 9-0-0 to 14-8-2, Interior (1) 14-8-2 to 35-1-8, Exterior(2R) 35-1-8 to 40-9-10, Interior (1) 40-9-10 to 41-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 786 lb uplift at joint 2 and 794 lb uplift at joint 12.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31.2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

Design Valid to its 9 this with Min New Commercials. This design is based only upon parameters shown, and is 10 at an individual obtaining Component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

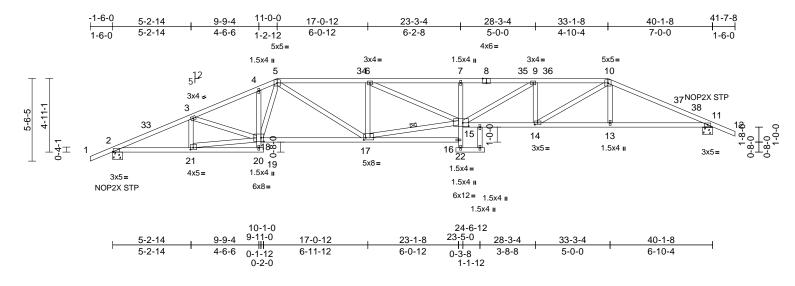
\*\*ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	LINCOLN MODEL III		
22-0558-A1	T-3	Hip	1	1	Job Reference (optional)	T29090844

Run: 8.62 S Aug 22 2022 Print: 8.620 S Aug 22 2022 MiTek Industries, Inc. Fri Oct 28 12:42:14 ID:JZLoD4oFdG0VxfohamAYD2yy8?7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:77.1

Plate Offsets (X, Y): [2:0-0-6,Edge], [8:0-3-0,Edge], [14:0-2-4,0-1-8], [15:0-4-12,0-2-12], [17:0-1-8,0-1-12], [18:0-2-4,0-3-0], [21:0-2-4,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	-0.45	15	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.84	16-17	>571	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.22	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.61	15	>786	240	Weight: 224 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 2x4 SP No.2 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied.

**BOT CHORD** Rigid ceiling directly applied. WFBS 1 Row at midpt 15-17 REACTIONS (size) 2=0-8-0, 11=0-8-0

Max Horiz 2=141 (LC 11)

Max Uplift 2=-796 (LC 12), 11=-797 (LC 12) Max Grav 2=1567 (LC 1), 11=1565 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31 2-3=-3362/1700 3-4=-3445/1793

4-5=-3427/1879, 5-6=-3714/1960, 6-7=-4839/2514, 7-9=-4889/2532 9-10=-4189/2195, 10-11=-3254/1627,

11-12=0/31

**BOT CHORD** 2-21=-1535/3062, 20-21=-91/199, 19-20=0/0,

17-18=-1421/2991, 16-17=-89/197,

14-15=-1954/4189, 13-14=-1366/2937,

11-13=-1364/2944

**WEBS** 18-20=0/121, 4-18=-146/195, 16-22=0/0,

15-16=0/115, 7-15=-293/254, 5-18=-374/655, 5-17=-392/977, 6-17=-877/580, 15-17=-1698/3590, 10-13=0/247 3-21=-314/274, 18-21=-1459/2892, 3-18=-75/234, 6-15=-597/1227, 9-15=-429/852, 9-14=-717/459,

10-14=-739/1563

### NOTES

1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 2-6-2, Interior (1) 2-6-2 to 11-0-0, Exterior(2R) 11-0-0 to 16-8-2, Interior (1) 16-8-2 to 33-1-8, Exterior(2R) 33-1-8 to 38-9-10, Interior (1) 38-9-10 to 41-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All plates are 1.5x4 MT20 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 796 lb uplift at joint 2 and 797 lb uplift at joint 11.
- 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



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31,2022

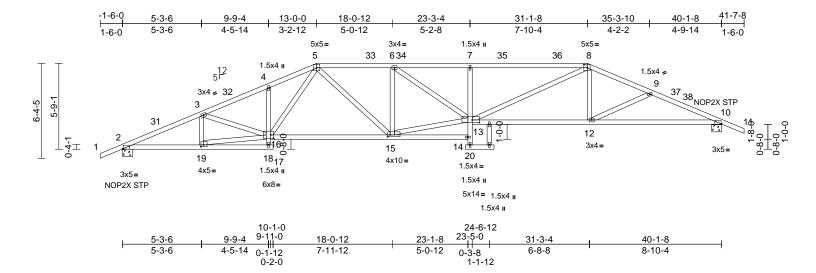
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see \*\*ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	uss Truss Type Qty Ply LINCOLN MODEL III			LINCOLN MODEL III	
22-0558-A1	T-4	Hip	1	1	Job Reference (optional)	T29090845

Run: 8.62 S Aug 22 2022 Print: 8.620 S Aug 22 2022 MiTek Industries, Inc. Fri Oct 28 12:42:15 ID:GSO65q0gaBmabf5UhjO42Ryy7t5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f



Scale = 1:77.2

Plate Offsets (X, Y): [2:0-0-6,Edge], [8:0-2-12,0-2-8], [10:0-0-6,Edge], [13:0-5-12,0-2-0], [15:0-2-0,0-1-8], [16:0-2-4,0-3-0], [19:0-2-4,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.93	Vert(LL)	-0.33	13	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.66	15-16	>725	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.19	10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.45	13	>999	240	Weight: 227 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied. **REACTIONS** (size) 2=0-8-0, 10=0-8-0

Max Horiz 2=167 (LC 11) Max Uplift 2=-796 (LC 12), 10=-797 (LC 12)

Max Grav 2=1567 (LC 12), 10=-797 (LC 12)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/31, 2-3=-3359/1692, 3-4=-3447/1812, 4-5=-3458/1926, 5-6=-3097/1689,

6-7=-3829/2082, 7-8=-3842/2082, 8-9=-3067/1575, 9-10=-3318/1764.

10-11=0/31

BOT CHORD 2-19=-1526/3058, 18-19=-90/197, 17-18=0/0,

15-16=-1272/2702, 14-15=-49/110, 12-13=-1255/2785, 10-12=-1529/3035 16-18=0/120, 4-16=-215/259, 14-20=0/0,

13-14=0/72, 7-13=-388/359, 3-16=-61/208, 5-16=-484/847, 5-15=-221/673, 6-15=-781/514, 13-15=-1416/3054,

6-15=-781/514, 13-15=-1416/3054, 8-12=-16/428, 9-12=-289/302, 3-19=-317/273, 16-19=-1451/2890, 6-13=-473/902, 8-13=-641/1274

### NOTES

**WEBS** 

 Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 2-6-2, Interior (1) 2-6-2 to 13-0-0, Exterior(2R) 13-0-0 to 18-8-2, Interior (1) 18-8-2 to 31-1-8, Exterior(2R) 31-1-8 to 36-9-10, Interior (1) 36-9-10 to 41-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) All plates are 1.5x4 MT20 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 796 lb uplift at joint 2 and 797 lb uplift at joint 10.
- 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



Page: 1

Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see 

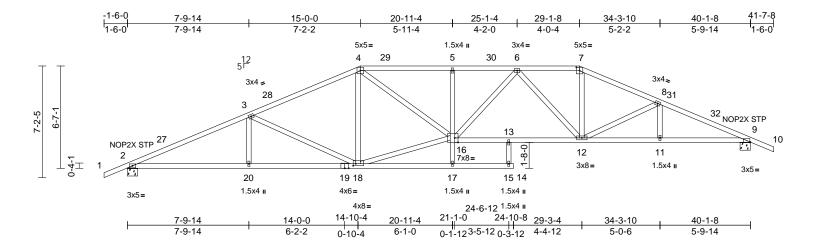
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply LINCOLN MODEL III		
22-0558-A1	T-5	Hip	1	1	Job Reference (optional)	T29090846

Run: 8.62 S Aug 22 2022 Print: 8.620 S Aug 22 2022 MiTek Industries, Inc. Fri Oct 28 12:42:16 ID:PC09d1enUs6n8?ABvonzLCyy7pi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:74.2

Plate Offsets (X, Y): [7:0-2-8,0-2-7], [9:0-0-6,Edge], [16:0-2-8,Edge], [18:0-2-0,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	-0.27	16	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.58	14	>825	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.18	9	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.37	16	>999	240	Weight: 223 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.1 2x4 SP No.1 BOT CHORD 2x4 SP No.2 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied.

**BOT CHORD** Rigid ceiling directly applied. REACTIONS 2=0-8-0, 9=0-8-0 (size)

Max Horiz 2=193 (LC 11) Max Uplift 2=-795 (LC 12), 9=-794 (LC 12) Max Grav 2=1568 (LC 1), 9=1569 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-3=-3229/1649, 3-4=-2523/1371,

4-5=-3237/1782, 5-6=-3240/1778, 6-7=-2579/1449, 7-8=-2881/1518, 8-9=-3333/1724, 9-10=0/31

BOT CHORD  $2\hbox{-}20\hbox{=-}1461/2936,\ 18\hbox{-}20\hbox{=-}1461/2936,$ 

17-18=-8/44, 15-17=0/0, 14-15=0/0, 13-16=-1380/3003, 12-13=-1380/3003, 11-12=-1487/3032. 9-11=-1487/3032

WFBS 16-17=0/249, 5-16=-301/281, 3-20=0/311,

3-18=-775/494, 4-18=-206/156, 16-18=-1046/2293, 4-16=-577/1239 6-16=-143/436, 6-12=-728/402,

7-12=-345/841, 8-12=-496/369, 8-11=0/171,

13-15=0/40

### NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 2-6-2, Interior (1) 2-6-2 to 15-0-0, Exterior(2R) 15-0-0 to 20-11-4, Interior (1) 20-11-4 to 29-1-8, Exterior(2R) 29-1-8 to 34-9-10, Interior (1) 34-9-10 to 41-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 794 lb uplift at joint 9 and 795 lb uplift at joint 2.
- 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



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

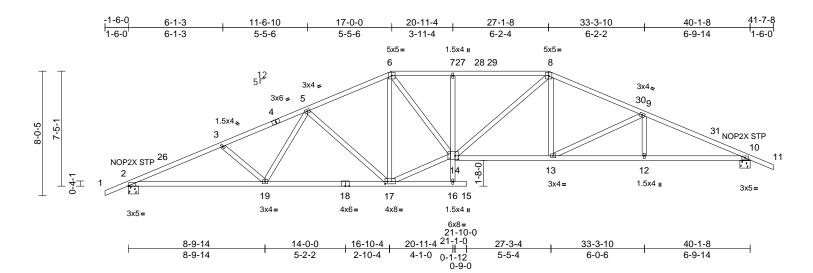
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

\*\*ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	T-6	Hip	1	1	Job Reference (optional)	T29090847

Run: 8.62 S. Aug 22 2022 Print: 8.620 S. Aug 22 2022 MiTek Industries, Inc. Fri Oct 28 12:42:16 ID:jj9CewNUoo7Uo\_cgnKrVeMyy7nT-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:74.3

Plate Offsets (X, Y): [2:0-0-6,Edge], [14:0-2-8,0-2-12], [17:0-1-12,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	-0.24	15	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.47	13-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.16	10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.32	15	>999	240	Weight: 221 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied. **REACTIONS** (size) 2=0-8-0, 10=0-8-0

Max Horiz 2=218 (LC 11)

Max Uplift 2=-793 (LC 12), 10=-792 (LC 12) Max Grav 2=1573 (LC 1), 10=1574 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-3=-3293/1684, 3-5=-3052/1572,

5-6=-2317/1309, 6-7=-2756/1571, 7-8=-2754/1567, 8-9=-2715/1453,

9-10=-3304/1693, 10-11=0/31 BOT CHORD 2-19=-1507/3007, 17-19=-1228/2545,

16-17=-7/23, 15-16=0/0, 13-14=-1059/2432,

12-13=-1447/2998, 10-12=-1447/2998 14-16=0/85, 7-14=-299/275, 3-19=-335/299,

5-19=-112/494, 5-17=-642/456, 6-17=-314/151, 14-17=-955/2216, 6-14=-539/1120, 8-14=-243/571,

8-13=-101/466, 9-13=-639/427, 9-12=0/248

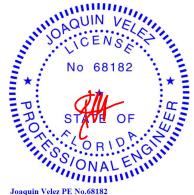
### NOTES

WFBS

 Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 2-6-2, Interior (1) 2-6-2 to 17-0-0, Exterior(2R) 17-0-0 to 22-8-2, Interior (1) 22-8-2 to 27-1-8, Exterior(2R) 27-1-8 to 32-9-10, Interior (1) 32-9-10 to 41-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 5) 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 792 lb uplift at joint 10 and 793 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Page: 1

Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see 

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	T-7	Hip	1	1	Job Reference (optional)	T29090848

Run: 8.62 S Aug 22 2022 Print: 8.620 S Aug 22 2022 MiTek Industries, Inc. Fri Oct 28 12:42:17 ID:\_txSeJL6faYVDt?pGLIVCWyy7kx-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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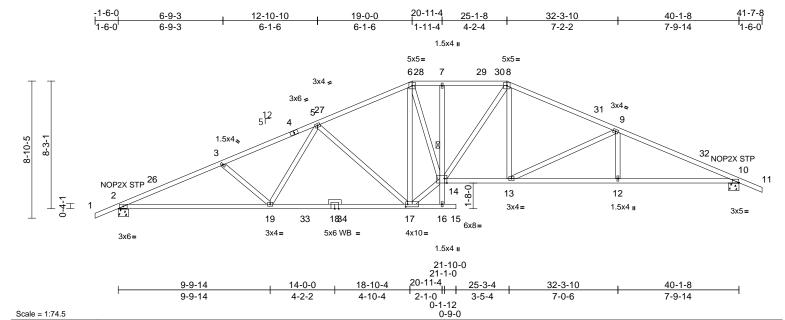


Plate Offsets (X, Y): [10:0-0-2,Edge], [14:0-2-0,Edge], [17:0-1-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	-0.34	17-19	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.86	Vert(CT)	-0.60	17-19	>801	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.19	10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.31	15	>999	240	Weight: 228 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.1 2x4 SP No.1 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.2 OTHERS

### BRACING

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

WFBS 1 Row at midpt 7-16 REACTIONS 2=0-8-0, 10=0-8-0 (size) Max Horiz 2=244 (LC 11) Max Uplift 2=-793 (LC 12), 10=-792 (LC 12)

Max Grav 2=1775 (LC 17), 10=1721 (LC 18)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/31, 2-3=-3664/1674, 3-5=-3397/1544,

5-6=-2363/1246, 6-7=-2623/1407, 7-8=-2627/1407, 8-9=-2778/1389, 9-10=-3550/1669, 10-11=0/31 2-19=-1492/3522, 17-19=-1169/2860,

**BOT CHORD** 16-17=-9/20, 15-16=0/0, 13-14=-963/2506,

12-13=-1416/3246, 10-12=-1416/3246 14-16=-36/0, 7-14=-126/96, 3-19=-401/344, 5-19=-132/733, 5-17=-857/503,

6-17=-796/368, 14-17=-991/2770, 6-14=-640/1520, 8-14=-138/381, 8-13=-134/607, 9-13=-934/496, 9-12=0/311

### NOTES

**WEBS** 

1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 2-6-2, Interior (1) 2-6-2 to 19-0-0, Exterior(2R) 19-0-0 to 24-8-2, Interior (1) 24-8-2 to 25-1-8, Exterior(2R) 25-1-8 to 30-9-10, Interior (1) 30-9-10 to 41-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 792 lb uplift at joint 10 and 793 lb uplift at joint 2.
- 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



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

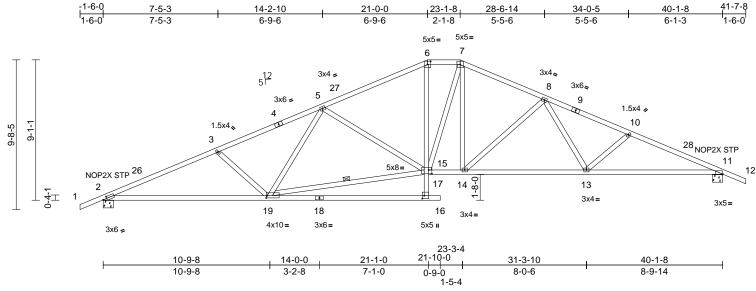
October 31,2022



Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	T-8	Hip	1	1	Job Reference (optional)	T29090849

Run: 8.62 S Aug 22 2022 Print: 8.620 S Aug 22 2022 MiTek Industries, Inc. Fri Oct 28 12:42:17 ID:HIHFW9Pe?I9RTcycTcZsX?yxprp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:74.6

Plate Offsets (X, Y): [2:0-3-0,0-1-8], [6:0-2-8,0-2-7], [11:0-0-6,Edge], [15:0-2-8,0-3-0], [17:0-2-4,0-1-8], [19:0-0-11,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	-0.24	17-19	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.54	17-19	>889	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.16	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.32	16	>999	240	Weight: 230 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.1

**BOT CHORD** 2x4 SP No.1 \*Except\* 17-6:2x4 SP No.2

2x4 SP No.2 WEBS **BRACING** 

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** 

Rigid ceiling directly applied. Except: 10-0-0 oc bracing: 15-17

WFBS 1 Row at midpt 15-19

REACTIONS (size) 2=0-8-0, 11=0-8-0

Max Horiz 2=270 (LC 11)

Max Uplift 2=-792 (LC 12), 11=-791 (LC 12)

Max Grav 2=1574 (LC 1), 11=1575 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension

1-2=0/31, 2-3=-3214/1602, 3-5=-2913/1462, TOP CHORD

5-6=-2358/1288, 6-7=-2104/1259, 7-8=-2324/1274, 8-10=-3058/1533,

10-11=-3299/1646, 11-12=0/31 **BOT CHORD** 2-19=-1418/2930, 17-19=0/259, 16-17=0/0,

15-17=0/232, 6-15=-283/625,

14-15=-788/2073, 13-14=-1129/2551,

11-13=-1409/3013

**WEBS** 5-15=-580/441, 7-15=-173/277,

7-14=-239/612, 8-14=-643/455, 8-13=-113/492, 10-13=-338/300, 5-19=0/329,

3-19=-431/385, 15-19=-1203/2394

### NOTES

1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 2-6-2, Interior (1) 2-6-2 to 21-0-0, Exterior(2E) 21-0-0 to 23-1-8, Exterior(2R) 23-1-8 to 28-6-14, Interior (1) 28-6-14 to 41-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 791 lb uplift at joint 11 and 792 lb uplift at joint 2.
- 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



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

\*\*AMSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



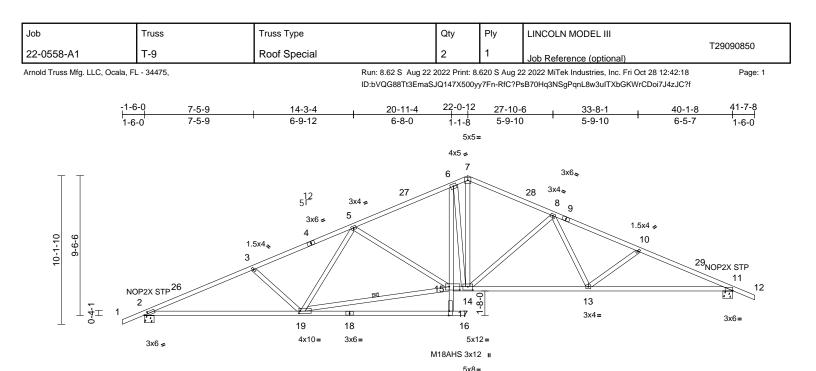


Plate Offsets (X, Y): [2:0-3-0,0-1-8], [11:0-0-2,Edge], [14:0-4-0,0-2-12], [15:0-8-12,0-2-12], [17:0-3-8,Edge], [19:0-0-15,0-1-12]

14-0-0

3-2-8

10-9-8

10-9-8

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.25	16	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.55	17-19	>875	240	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.16	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.35	16	>999	240	Weight: 233 lb	FT = 20%

21-1-0

7-1-0

21-10-0 0-9-0

0-2-12

30-3-6

8-2-10

#### LUMBER

Scale = 1:78.6

TOP CHORD 2x4 SP No.1

2x4 SP No.1 \*Except\* 17-6:2x4 SP No.2 BOT CHORD

2x4 SP No.2 WEBS **BRACING** 

TOP CHORD

TOP CHORD Structural wood sheathing directly applied.

**BOT CHORD** Rigid ceiling directly applied. Except: 10-0-0 oc bracing: 15-17

WFBS 1 Row at midpt 15-19

REACTIONS (size) 2=0-8-0, 11=0-8-0 Max Horiz 2=284 (LC 11)

Max Uplift 2=-792 (LC 12), 11=-791 (LC 12)

Max Grav 2=1574 (LC 1), 11=1575 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

1-2=0/31, 2-3=-3213/1596, 3-5=-2913/1458,

5-6=-2352/1303, 6-7=-2145/1304, 7-8=-2226/1254, 8-10=-2975/1492,

10-11=-3271/1643, 11-12=0/31 **BOT CHORD** 2-19=-1421/2929, 17-19=-11/298, 16-17=0/0,

15-17=0/233, 6-15=-303/518,

14-15=-802/2080, 13-14=-1090/2494,

11-13=-1400/2988

**WEBS** 5-15=-587/416, 7-14=-834/1406,

8-14=-681/465, 8-13=-101/512,

10-13=-390/337, 5-19=0/333, 3-19=-432/389,

15-19=-1171/2337, 6-14=-658/564

### NOTES

1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 2-6-2, Interior (1) 2-6-2 to 22-0-12, Exterior(2R) 22-0-12 to 26-0-14, Interior (1) 26-0-14 to 41-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. 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 791 lb uplift at joint 11 and 792 lb uplift at joint 2.
- 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



40-1-8

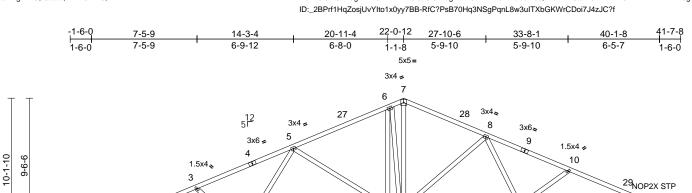
9-10-2

MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31,2022







3x6= 5x8= 1.5x4 II 22-0-12 21-3-0 21-1-0 10-9-8 14-0-0 20-11-4 30-3-6 40-1-8 10-9-8 3-2-8 0-1-12 8-2-10 9-10-2

15

14

3x8=

17 16

13

3x4=

Plate Offsets (X, Y): [2:0-0-6,Edge], [11:0-0-6,Edge], [15:0-5-8,0-2-12], [19:0-1-3,0-1-8]

NOP2X STP<sup>26</sup>

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	-0.39	17-19	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.86	17-19	>559	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.17	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.33	16	>999	240	Weight: 232 lb	FT = 20%

#### LUMBER

Scale = 1:81.4

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 2x4 SP No.2 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied.

**BOT CHORD** Rigid ceiling directly applied. WFBS 1 Row at midpt 15-19 REACTIONS (size) 2=0-8-0, 11=0-8-0

Max Horiz 2=284 (LC 11) Max Uplift 2=-795 (LC 12), 11=-795 (LC 12)

Max Grav 2=1569 (LC 1), 11=1569 (LC 1)

(lb) - Maximum Compression/Maximum **FORCES** 

Tension TOP CHORD

1-2=0/31 2-3=-3207/1601 3-5=-2910/1463

5-6=-2361/1321, 6-7=-2140/1326, 7-8=-2208/1264, 8-10=-2959/1502, 10-11=-3255/1652, 11-12=0/31

BOT CHORD 2-19=-1426/2923, 17-19=-13/28, 16-17=0/0,

14-15=-831/2104, 13-14=-1099/2479,

11-13=-1409/2974

WFBS 15-17=0/172, 6-15=-401/743, 5-15=-584/411,

7-14=-876/1423, 8-14=-681/465, 8-13=-102/514, 10-13=-390/337, 5-19=0/331,

3-19=-427/390, 15-19=-1180/2557,

6-14=-897/698

### NOTES

Unbalanced roof live loads have been considered for

- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 2-6-2, Interior (1) 2-6-2 to 22-0-12, Exterior(2R) 22-0-12 to 26-0-14, Interior (1) 26-0-14 to 41-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. 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 795 lb uplift at joint 11 and 795 lb uplift at joint 2.
- 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

19

18



11

3x6=

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October 31,2022



Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	T-11	Hip	1	1	Job Reference (optional)	T29090852

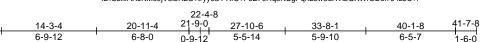
1-6-0

1-6-0

7-5-9

7-5-9

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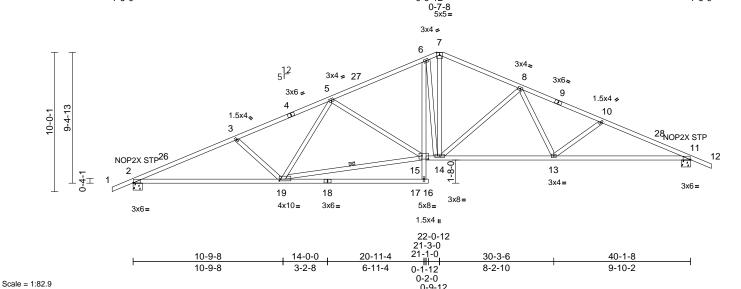


Plate Offsets (X, Y): [2:0-0-6,Edge], [11:0-0-6,Edge], [15:0-5-8,0-2-12], [19:0-1-3,0-1-8]

Loading	(nef)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	1/4	PLATES	GRIP
Loading	(psf)	Spacing	2-0-0	Col		DELL	ın	(100)	i/deli	L/u	PLAIES	GKIF
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.39	17-19	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.86	17-19	>561	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.17	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.33	16	>999	240	Weight: 231 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 2x4 SP No.2 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied.

**BOT CHORD** Rigid ceiling directly applied. WFBS 1 Row at midpt 15-19 REACTIONS (size) 2=0-8-0, 11=0-8-0

Max Horiz 2=282 (LC 11) Max Uplift 2=-795 (LC 12), 11=-795 (LC 12) Max Grav 2=1569 (LC 1), 11=1569 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-3=-3208/1576, 3-5=-2910/1436,

5-6=-2361/1280, 6-7=-2117/1264, 7-8=-2217/1223, 8-10=-2959/1472

10-11=-3255/1624, 11-12=0/31 BOT CHORD 2-19=-1393/2923, 17-19=-13/28, 16-17=0/0,

14-15=-801/2105, 13-14=-1071/2479,

11-13=-1385/2973

**WEBS** 15-17=0/172, 6-15=-401/743, 5-15=-583/421,

8-14=-663/454, 8-13=-104/514,

10-13=-390/338, 5-19=0/331, 3-19=-427/390, 15-19=-1143/2557, 7-14=-770/1300,

6-14=-806/599

### NOTES

Unbalanced roof live loads have been considered for

- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 2-6-2, Interior (1) 2-6-2 to 22-0-12, Exterior(2R) 22-0-12 to 27-10-6, Interior (1) 27-10-6 to 41-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 795 lb uplift at joint 2 and 795 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



Page: 1

Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31,2022



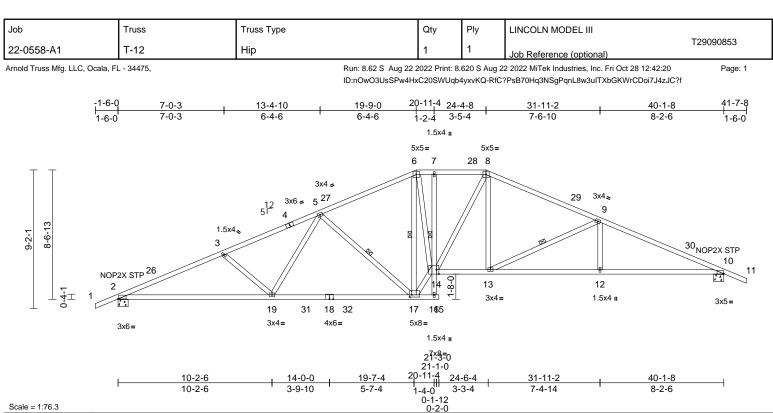


Plate Offsets (X, Y): [2:0-0-6,Edge], [10:0-0-6,Edge], [14:0-2-0,Edge], [17:0-1-12,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.52	Vert(LL)	-0.36	17-19	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.62	17-19	>777	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.21	10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.33	15	>999	240	Weight: 230 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.1 2x4 SP No.1 BOT CHORD 2x4 SP No.2 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied. WFBS 1 Row at midpt 7-16, 5-17, 6-17, 9-13

REACTIONS (size) 2=0-8-0, 10=0-8-0

Max Horiz 2=254 (LC 11)

Max Uplift 2=-796 (LC 12), 10=-795 (LC 12) Max Grav 2=1766 (LC 17), 10=1709 (LC 18)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31 2-3=-3619/1662 3-5=-3338/1524

5-6=-2276/1214, 6-7=-2459/1346, 7-8=-2470/1352, 8-9=-2684/1355,

9-10=-3505/1651, 10-11=0/31 BOT CHORD 2-19=-1477/3488. 17-19=-1138/2794.

16-17=-18/27, 15-16=0/0, 13-14=-918/2424,

12-13=-1395/3203, 10-12=-1395/3203

**WEBS** 14-16=-194/0, 7-14=-74/113, 3-19=-422/360,

5-19=-139/764, 5-17=-886/518, 6-17=-1408/625, 14-17=-1126/3222 6-14=-796/1946, 8-14=-117/309,

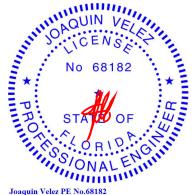
8-13=-143/626, 9-13=-993/522, 9-12=0/331

### NOTES

Unbalanced roof live loads have been considered for

- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 2-6-2, Interior (1) 2-6-2 to 19-9-0, Exterior(2E) 19-9-0 to 24-4-8, Exterior(2R) 24-4-8 to 30-0-10, Interior (1) 30-0-10 to 41-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 795 lb uplift at joint 10 and 796 lb uplift at joint 2.
- 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



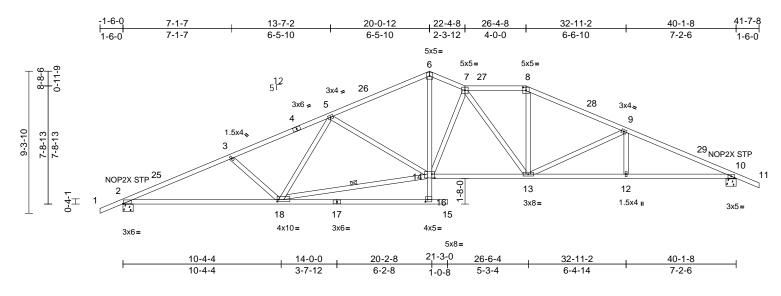
MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31.2022



Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	T-14	Roof Special	1	1	Job Reference (optional)	T29090854

Run: 8.62 S Aug 22 2022 Print: 8.620 S Aug 22 2022 MiTek Industries, Inc. Fri Oct 28 12:42:20 ID:b1JDr6evuU0UUXOVMwVYugyxv7n-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:75.4

Plate Offsets (X, Y): [2:0-0-6,Edge], [8:0-2-8,0-2-7], [14:0-2-4,0-3-0], [16:0-1-8,0-1-12], [18:0-1-3,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	-0.26	15	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.53	16-18	>902	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.17	10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.36	15	>999	240	Weight: 225 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.1

2x4 SP No.1 \*Except\* 16-6:2x4 SP No.2 BOT CHORD

2x4 SP No.2 WEBS

**BRACING** 

TOP CHORD

WFBS

TOP CHORD Structural wood sheathing directly applied.

**BOT CHORD** Rigid ceiling directly applied. Except: 10-0-0 oc bracing: 14-16

1 Row at midpt 14-18

REACTIONS (size) 2=0-8-0, 10=0-8-0

Max Horiz 2=258 (LC 11)

Max Uplift 2=-790 (LC 12), 10=-789 (LC 12)

Max Grav 2=1577 (LC 1), 10=1578 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

1-2=0/31, 2-3=-3243/1698, 3-5=-2955/1565,

5-6=-2506/1452, 6-7=-2442/1492, 7-8=-2368/1442, 8-9=-2660/1506, 9-10=-3298/1721, 10-11=0/31

**BOT CHORD** 2-18=-1520/2958, 16-18=-4/169, 15-16=0/0,

14-16=0/236, 6-14=-820/1575,

13-14=-1177/2555, 12-13=-1420/2990,

10-12=-1420/2990

5-14=-532/388, 7-14=-798/539,

7-13=-384/220, 8-13=-273/694, 9-13=-693/457, 9-12=0/269, 5-18=0/254,

3-18=-410/367, 14-18=-1324/2532

### NOTES

**WEBS** 

1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 2-6-2, Interior (1) 2-6-2 to 20-0-12, Exterior(2E) 20-0-12 to 22-4-8, Interior (1) 22-4-8 to 26-4-8, Exterior(2R) 26-4-8 to 30-4-10, Interior (1) 30-4-10 to 41-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 790 lb uplift at joint 2 and 789 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



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31,2022

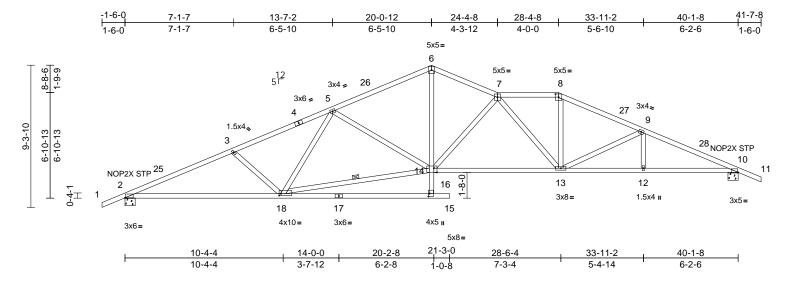


a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see \*\*ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Jol	0	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22	-0558-A1	T-15	Roof Special	1	1	Job Reference (optional)	T29090855

Run: 8.62 S Aug 22 2022 Print: 8.620 S Aug 22 2022 MiTek Industries, Inc. Fri Oct 28 12:42:21 ID:JOfr3rc9VZYMYaMqPfwm\_2yxv5E-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:75.4

Plate Offsets (X, Y): [2:0-0-6,Edge], [8:0-2-8,0-2-7], [10:0-0-6,Edge], [14:0-2-8,0-3-4], [16:0-2-4,0-0-12], [18:0-1-3,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	-0.27	15	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.58	13-14	>824	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.18	10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.37	15	>999	240	Weight: 221 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.1

2x4 SP No.1 \*Except\* 16-6:2x4 SP No.2 BOT CHORD

2x4 SP No.2 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied.

**BOT CHORD** Rigid ceiling directly applied. Except: 10-0-0 oc bracing: 14-16

WFBS 1 Row at midpt 14-18

REACTIONS (size) 2=0-8-0, 10=0-8-0

Max Horiz 2=258 (LC 11)

Max Uplift 2=-790 (LC 12), 10=-789 (LC 12)

Max Grav 2=1577 (LC 1), 10=1578 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-3=-3243/1686, 3-5=-2955/1553,

> 5-6=-2512/1435, 6-7=-2487/1467, 7-8=-2539/1497, 8-9=-2840/1577,

9-10=-3339/1751, 10-11=0/31 **BOT CHORD** 2-18=-1510/2958, 16-18=-17/124, 15-16=0/0,

14-16=0/235, 6-14=-789/1572,

13-14=-1382/2885, 12-13=-1490/3035,

10-12=-1490/3035

5-14=-531/391, 7-14=-941/652, **WEBS** 

7-13=-537/363, 8-13=-334/806, 9-13=-549/397, 9-12=0/192, 5-18=0/244,

3-18=-410/367, 14-18=-1301/2559

### NOTES

1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 2-6-2, Interior (1) 2-6-2 to 20-0-12, Exterior(2E) 20-0-12 to 24-4-8, Interior (1) 24-4-8 to 28-4-8, Exterior(2R) 28-4-8 to 32-4-10, Interior (1) 32-4-10 to 41-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 790 lb uplift at joint 2 and 789 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



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

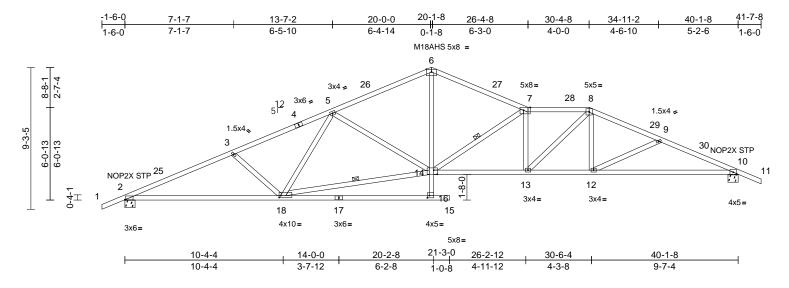
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see 

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Jo	ob	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
2	2-0558-A1	T-16	Roof Special	1	1	Job Reference (optional)	T29090856

Run: 8.62 S Aug 22 2022 Print: 8.620 S Aug 22 2022 MiTek Industries, Inc. Fri Oct 28 12:42:22 ID:I?HWGCANXHOtA2s3b7NtX7yxue6-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:75.4

Plate Offsets (X, Y): [2:0-0-6,Edge], [7:0-5-4,0-2-4], [14:0-2-12,0-3-4], [16:0-1-8,0-1-12], [18:0-1-3,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.29	15	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.56	16-18	>867	240	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.18	10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.39	15	>999	240	Weight: 221 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.1

2x4 SP No.1 \*Except\* 16-6:2x4 SP No.2 BOT CHORD

2x4 SP No.2 WEBS

**BRACING** 

TOP CHORD

WFBS

TOP CHORD Structural wood sheathing directly applied.

**BOT CHORD** Rigid ceiling directly applied. Except: 10-0-0 oc bracing: 14-16

1 Row at midpt 7-14, 14-18

REACTIONS (size) 2=0-8-0, 10=0-8-0

Max Horiz 2=258 (LC 11)

Max Uplift 2=-790 (LC 12), 10=-789 (LC 12)

Max Grav 2=1577 (LC 1), 10=1578 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

1-2=0/31, 2-3=-3243/1676, 3-5=-2955/1542, 5-6=-2509/1425, 6-7=-2514/1446, 7-8=-3338/1919, 8-9=-3012/1641,

9-10=-3335/1854, 10-11=0/31 **BOT CHORD** 2-18=-1500/2959, 16-18=-14/161, 15-16=0/0,

14-16=0/236, 6-14=-733/1524,

13-14=-1601/3320, 12-13=-1271/2720,

10-12=-1610/3055

5-14=-534/386, 7-14=-1256/785, **WEBS** 

7-13=-521/404, 8-13=-503/871, 8-12=-67/374, 9-12=-379/371, 5-18=0/252,

3-18=-410/369, 14-18=-1296/2533

### NOTES

1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 2-6-2, Interior (1) 2-6-2 to 20-0-12, Exterior(2R) 20-0-12 to 24-0-14, Interior (1) 24-0-14 to 30-4-8, Exterior(2R) 30-4-8 to 34-4-10, Interior (1) 34-4-10 to 41-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 789 lb uplift at joint 10 and 790 lb uplift at joint 2.
- 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



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see 

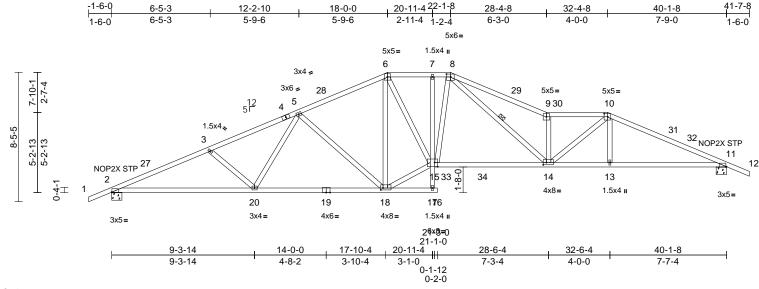
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	T-17	Roof Special	1	1	Job Reference (optional)	T29090857

Run: 8.62 S Aug 22 2022 Print: 8.620 S Aug 22 2022 MiTek Industries, Inc. Fri Oct 28 12:42:22 ID:v3AVm0McmsQQVzfrXH6IPYyxrjy-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:75.2

Plate Offsets (X, Y): [2:0-0-2,Edge], [8:0-3-4,0-2-4], [10:0-2-12,0-2-8], [11:0-0-6,Edge], [14:0-2-8,0-1-12], [15:0-2-4,0-3-4], [18:0-1-12,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	-0.45	14-15	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.81	14-15	>594	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.18	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.42	14-15	>999	240	Weight: 226 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.1 2x4 SP No.1 BOT CHORD 2x4 SP No.2 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied.

**BOT CHORD** Rigid ceiling directly applied. WFBS 1 Row at midpt 8-14 REACTIONS (size) 2=0-8-0, 11=0-8-0

Max Horiz 2=231 (LC 11)

Max Uplift 2=-796 (LC 12), 11=-795 (LC 12) Max Grav 2=1751 (LC 17), 11=1717 (LC 18)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31 2-3=-3625/1825 3-5=-3373/1705

5-6=-2434/1428, 6-7=-2786/1656, 7-8=-2794/1660, 8-9=-4642/2595 9-10=-4165/2264, 10-11=-3509/1841,

11-12=0/31

2-20=-1645/3478, 18-20=-1348/2867, **BOT CHORD** 

17-18=-9/20, 16-17=0/0, 14-15=-1273/2806, 13-14=-1510/3192, 11-13=-1509/3202

**WEBS** 15-17=0/19, 7-15=-104/104, 3-20=-378/322,

5-20=-119/668, 5-18=-794/478, 6-18=-442/272, 15-18=-1116/2550, 6-15=-578/1263, 8-14=-1072/2066, 10-14=-651/1297, 10-13=0/221, 9-14=-1954/1250, 8-15=-131/271

### NOTES

Unbalanced roof live loads have been considered for

- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 2-6-2, Interior (1) 2-6-2 to 18-0-0, Exterior(2E) 18-0-0 to 22-1-8, Exterior(2R) 22-1-8 to 26-1-10, Interior (1) 26-1-10 to 32-4-8, Exterior(2R) 32-4-8 to 36-4-10, Interior (1) 36-4-10 to 41-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 795 lb uplift at joint 11 and 796 lb uplift at joint 2.
- 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



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
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a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see 

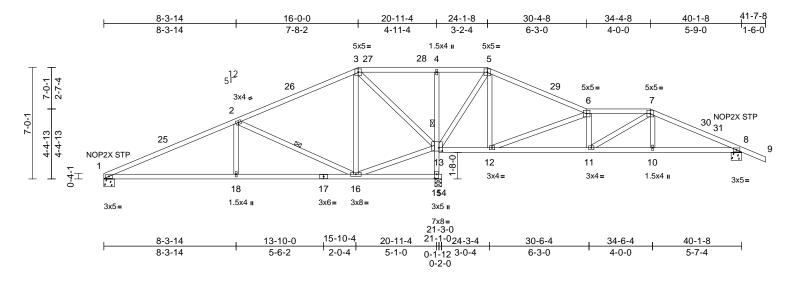
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	T-18	Roof Special	1	1	Job Reference (optional)	T29090858

Run: 8.62 S Aug 22 2022 Print: 8.620 S Aug 22 2022 MiTek Industries, Inc. Fri Oct 28 12:42:23 ID:aVHvNKHS5Eszb1JZQkVDjJyxuch-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:72.5

Plate Offsets (X, Y):	[1:0-1-6,0-0-2],	[13:0-2-8,0-2-8]	[15:0-3-0,0-1-8]
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Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.44		-0.10	18-21	>999		MT20	244/190
\ /				· ·	-	- ( )					WIIZU	244/190
TCDL	7.0	Lumber DOL	1.25	BC		Vert(CT)	-0.22	18-21	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.02	15	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.15	18-21	>999	240	Weight: 217 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 2x4 SP No.2 WEBS

**BRACING** 

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

WFBS 1 Row at midnt 4-15, 2-16 **REACTIONS** (size)

1=0-8-0, 8=0-8-0, 15=0-5-0 Max Horiz 1=-194 (LC 10)

Max Uplift 1=-256 (LC 12), 8=-332 (LC 12),

15=-892 (LC 12) Max Grav 1=621 (LC 21), 8=588 (LC 22),

15=1962 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1009/421, 2-3=-206/203, 3-4=-333/898,

4-5=-340/906, 5-6=-140/470, 6-7=-623/361,

7-8=-830/444, 8-9=0/31

BOT CHORD 1-18=-330/890, 16-18=-330/890

15-16=-173/103, 14-15=0/0, 12-13=-393/407,

11-12=-165/614. 10-11=-287/723.

8-10=-287/730

13-15=-1925/1145, 4-13=-232/198,

2-18=0/343, 2-16=-883/561, 3-16=-174/509, 13-16=-101/242, 5-13=-1005/593,

5-12=-158/465, 6-12=-915/598,

7-11=-198/144, 7-10=0/190, 3-13=-1151/711,

6-11=0/281

### NOTES

WEBS

Unbalanced roof live loads have been considered for this design

- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 4-0-2, Interior (1) 4-0-2 to 16-0-0, Exterior(2R) 16-0-0 to 20-0-2, Interior (1) 20-0-2 to 24-1-8, Exterior(2R) 24-1-8 to 28-1-10, Interior (1) 28-1-10 to 34-4-8, Exterior(2R) 34-4-8 to 38-4-10, Interior (1) 38-4-10 to 41-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 256 lb uplift at joint 1, 892 lb uplift at joint 15 and 332 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



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

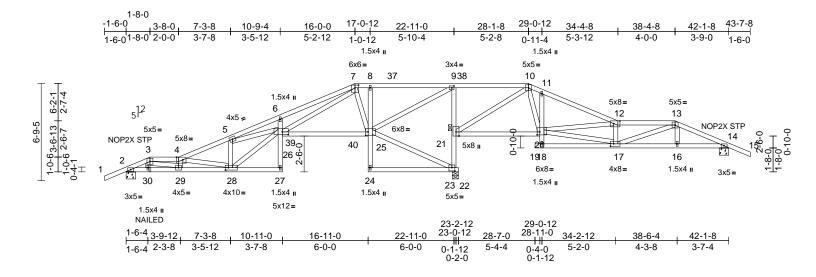
October 31,2022



Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	T-19	Roof Special Girder	1	1	Job Reference (optional)	T29090859

Run: 8.62 S Aug 22 2022 Print: 8.620 S Aug 22 2022 MiTek Industries, Inc. Fri Oct 28 12:42:24 ID:ods4sSN9AdAOubBYr0gpfCyxqcw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:80.5

[4:0-5-4,0-2-4], [7:0-3-0,0-2-4], [9:0-1-12,0-1-8], [12:0-5-4,0-2-4], [17:0-2-12,0-2-0], [20:0-2-4,0-2-8], [23:0-2-8,0-2-12], [25:0-2-0,0-3-0], [26:0-5-0,0-2-4], [25:0-2-0,0-3-0], [26:0-5-0,0-2-4], [25:0-2-0,0-3-0], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:0-5-0,0-2-4], [26:Plate Offsets (X, Y): [28:0-2-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.91	Vert(LL)	-0.32	26	>855	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.77	Vert(CT)	-0.69	25-26	>400	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.30	23	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.46	26	>597	240	Weight: 256 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 2x4 SP No.2 **WEBS** 

BRACING

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied or 5-10-11 oc bracing.

**WEBS** 1 Row at midpt 9-23 REACTIONS (size) 2=0-8-0. 14=0-8-0. 23=0-5-0

Max Horiz 2=182 (LC 7)

2=-454 (LC 8), 14=-457 (LC 30), Max Uplift

23=-563 (LC 8)

Max Grav 2=1032 (LC 13), 14=756 (LC 25),

23=1784 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

**BOT CHORD** 

TOP CHORD 1-2=0/31, 2-3=-2141/637, 3-4=-3469/1186,

4-5=-2203/729, 5-6=-4378/1259,

6-7=-4460/1362, 7-8=-1116/442, 8-9=-1114/447, 9-10=0/296, 10-11=-946/685,

11-12=-939/577, 12-13=-1858/998,

13-14=-1382/672, 14-15=0/31

2-30=-592/2087, 29-30=-595/2049,

28-29=-1132/3474, 27-28=-14/57,

25-26=-208/1256, 23-24=0/13, 22-23=0/0,

20-21=-224/629, 18-19=0/0, 17-18=-33/89, 16-17=-513/1238, 14-16=-510/1245

WEBS

8-25=-186/213 21-23=-1658/582 9-21=-1081/424, 18-20=0/124, 11-20=-317/293, 3-30=-38/232 3-29=-673/1791, 4-29=-660/301, 4-28=-1414/505, 5-28=-969/351,

26-27=0/47, 6-26=-195/246, 24-25=0/117,

7-26=-986/3503, 7-25=-514/173, 23-25=-159/52, 9-25=-247/1430,

10-21=-949/358, 17-20=-856/1813

12-20=-1069/551, 12-17=-427/347,

13-17=-376/670, 13-16=0/137,

10-20=-444/858, 26-28=-724/2382

5-26=-437/2100

### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 200.0lb AC unit load placed on the bottom chord, 13-11-0 from left end, supported at two points, 5-0-0 apart.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 1.5x4 MT20 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.

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 454 lb uplift at joint 2, 563 lb uplift at joint 23 and 457 lb uplift at joint
- 11) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (lb/ft)

Concentrated Loads (lb)

54, 4-7=-54, -54, 13-15=-54, -20, 20-21=-20, 18 ds (lb) 3), 39=-100, 40=-100 ACENS NO 68182

MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31.2022

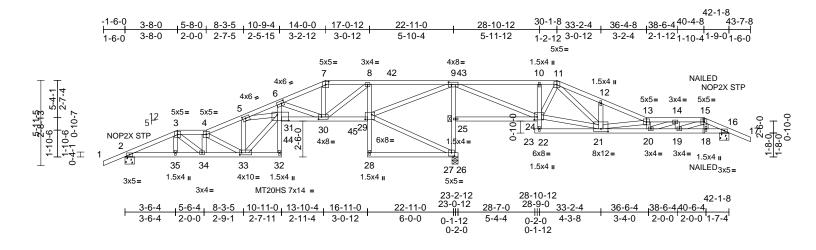
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see \*\*ANSVTP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	T-20	Roof Special Girder	1	1	Job Reference (optional)	T29090860

Run: 8.62 S Aug 22 2022 Print: 8.620 S Aug 22 2022 MiTek Industries, Inc. Fri Oct 28 12:42:25 ID:uW0zrsLCLT5hudO2CnBbmFyxq6h-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:80.3

[5:0-2-12,0-1-12], [6:0-2-0,0-2-0], [7:0-2-8,0-2-7], [9:0-2-8,0-2-0], [21:0-6-0,0-2-4], [24:0-2-8,0-2-8], [27:0-2-8,0-2-12], [29:0-5-8,0-4-0], [30:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,0-2-0], [20:0-2-8,

Plate Offsets (X, Y): [31:0-9-8,0-4-12], [33:0-1-8,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	-0.30	32	>912	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.91	Vert(CT)	-0.65	32	>422	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.37	27	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.41	32	>666	240	Weight: 251 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 2x4 SP No.2 **WEBS** 

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-3-0 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 5-1-12 oc

bracing.

**WEBS** 1 Row at midpt 9-27

REACTIONS (size) 2=0-8-0, 16=0-8-0, 27=0-5-0

Max Horiz 2=156 (LC 7)

Max Uplift 2=-431 (LC 30), 16=-464 (LC 8), 27=-584 (LC 8)

2=966 (LC 24), 16=803 (LC 14),

27=1788 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-3=-1891/597, 3-4=-2321/761,

4-5=-1970/619, 5-6=-5541/1397, 6-7=-2163/561, 7-8=-1960/548,

8-9=-1560/487, 9-10=-894/587, 10-11=-894/594, 11-12=-1564/904, 12-13=-1551/824, 13-14=-3023/1531, 14-15=-2383/1165, 15-16=-1530/642,

16-17=0/31

BOT CHORD 2-35=-531/1713, 34-35=-534/1707,

33-34=-734/2367, 32-33=-16/66, 30-31=-1203/5268, 29-30=-261/1587 27-28=-4/15, 26-27=0/0, 24-25=-313/103

22-23=0/0, 21-22=-9/42, 20-21=-1480/3068, 19-20=-1073/2374, 18-19=-514/1390,

16-18=-505/1395

WEBS 31-32=0/39, 6-31=-547/2528, 28-29=0/117. 8-29=-494/247 25-27=-1643/597

9-25=-1584/632, 22-24=0/83,

10-24=-200/209, 3-35=0/108, 3-34=-239/805

4-34=-500/186, 6-30=-3486/939. 7-30=-77/591, 8-30=-77/536, 27-29=-190/62

9-29=-322/1828, 9-24=-498/1248, 21-24=-354/890, 11-24=-93/50,

13-20=-326/241, 15-18=-72/125 5-31=-652/3251, 5-33=-1505/420,

31-33=-715/2588, 4-33=-650/275, 12-21=-228/213, 13-21=-1720/865

15-19=-652/1193, 14-19=-384/263,

14-20=-480/799, 11-21=-408/785

### NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 200.0lb AC unit load placed on the bottom chord, 13-11-0 from left end, supported at two points, 5-0-0 apart.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated. All plates are 1.5x4 MT20 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.

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 431 lb uplift at joint 2, 584 lb uplift at joint 27 and 464 lb uplift at joint 16.
- 11) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

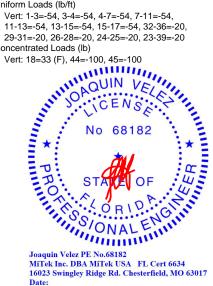
### LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (lb/ft)

Vert: 1-3=-54, 3-4=-54, 4-7=-54, 7-11=-54,

Concentrated Loads (lb)



16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31.2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	T-21	Roof Special Girder	1	1	Job Reference (optional)	T29090861

Run: 8.62 S Aug 22 2022 Print: 8.620 S Aug 22 2022 MiTek Industries, Inc. Fri Oct 28 12:42:27 ID:QjLvE?AkHoRtnj?W7\_I3IEyxqSr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

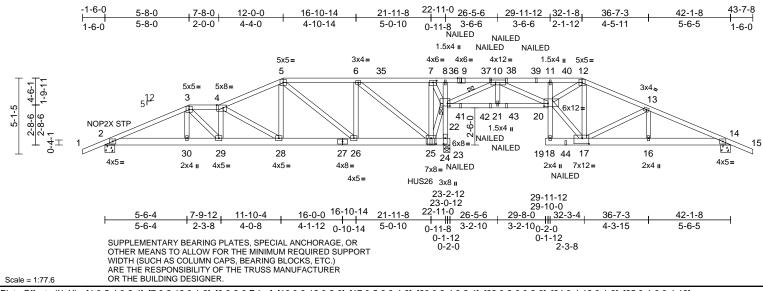


Plate Offsets (X, Y): [4:0-5-4,0-2-4], [7:0-2-12,0-1-8], [9:0-3-0,Edge], [10:0-3-12,0-2-0], [17:0-5-8,0-4-8], [20:0-3-4,0-2-4], [22:0-2-0,0-2-0], [24:0-4-12,0-1-8], [25:0-4-0,0-4-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.72	Vert(LL)	-0.15	20	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.28	20	>838	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.06	14	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.22	20	>999	240	Weight: 268 lb	FT = 20%

LUMBER TOP CHORD 2x4 SP No.1

**BOT CHORD** 2x6 SP No.1 \*Except\* 22-20:2x4 SP No.1

2x4 SP No.2 WEBS BRACING

TOP CHORD

Structural wood sheathing directly applied or

2-10-10 oc purlins. BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc

bracing.

WFBS 1 Row at midnt 8-24 10-22

**REACTIONS** (size) 2=0-8-0, 14=0-8-0, 24=0-5-0, (req.

0-8-1)Max Horiz 2=152 (LC 7)

2=-522 (LC 23), 14=-798 (LC 8), Max Uplift

24=-2610 (LC 8)

2=815 (LC 17), 14=1358 (LC 18), Max Grav

24=5139 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-3=-1468/828, 3-4=-1464/949,

4-5=-976/715, 5-6=-481/601, 6-7=-141/545, 7-8=-1152/2488, 8-10=-1204/2577, 10-11=-3915/2179, 11-12=-3882/2170, 12-13=-2452/1422, 13-14=-2882/1555,

14-15=0/31

BOT CHORD 2-30=-626/1309 29-30=-625/1297

28-29=-754/1452, 26-28=-420/847,

25-26=-321/481, 24-25=-339/173, 23-24=0/0.

21-22=-622/1273. 20-21=-622/1273.

18-19=0/0, 17-18=-22/45, 16-17=-1307/2632,

14-16=-1307/2632

**WEBS** 

22-24=-4889/2459, 8-22=-311/203, 18-20=-91/202, 11-20=-188/178, 3-30=-14/224, 3-29=-211/246,

4-29=-186/228, 4-28=-675/376 5-28=-148/426, 12-17=-498/234,

13-17=-489/295, 13-16=0/209, 7-25=-1547/2954, 22-25=-551/469,

5-26=-507/209, 6-26=-111/504, 6-25=-1237/557, 10-20=-1530/2983,

10-21=-16/274, 10-22=-4212/2261, 7-22=-3603/1962, 17-20=-1487/3078,

12-20=-1032/2061

### NOTES

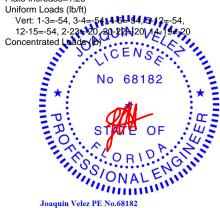
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- WARNING: Required bearing size at joint(s) 24 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2610 lb uplift at joint 24, 798 lb uplift at joint 14 and 522 lb uplift at joint

- 10) Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent at 21-11-8 from the left end to connect truss(es) to front face of bottom
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1180 lb down and 642 lb up at 32-1-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25. Plate Increase=1.25

Uniform Loads (lb/ft)



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31.2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	T-21	Roof Special Girder	1	1	Job Reference (optional)	T29090861

Vert: 9=-69 (F), 17=-1180 (F), 25=-1993 (F), 37=-69 (F), 38=-69 (F), 39=-84 (F), 41=-61 (F), 42=-61 (F), 43=-61 (F), 44=-356 (F)

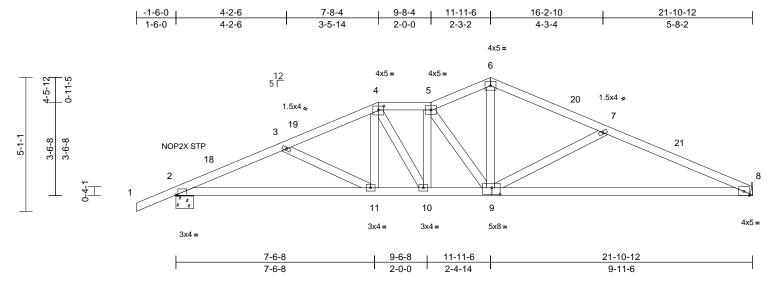
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Page: 2

Ī	Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
	22-0558-A1	T-22	Roof Special	1	1	Job Reference (optional)	T29090862

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Page: 1



Scale = 1:43.7

Plate Offsets (X, Y): [2:0-0-14, Edge], [4:0-2-8, 0-1-12], [9:0-3-12, 0-3-0]

												_
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	-0.16	9-14	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.35	9-14	>752	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.11	9-14	>999	240	Weight: 108 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 2x4 SP No.2 WEBS

**BRACING** 

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

REACTIONS 2=0-8-0, 8= Mechanical (size)

Max Horiz 2=118 (LC 11)

Max Uplift 2=-490 (LC 12), 8=-370 (LC 12)

Max Grav 2=894 (LC 1), 8=807 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-3=-1665/1122, 3-4=-1422/933,

4-5=-1310/967, 5-6=-1186/831, 6-7=-1244/834, 7-8=-1583/1076

**BOT CHORD** 2-11=-988/1519, 10-11=-712/1262,

8-10=-902/1443

WEBS 4-11=-48/367, 4-10=-143/109, 5-10=-199/84,

6-9=-420/724, 5-9=-403/396, 7-9=-401/417,

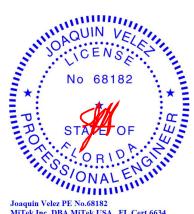
3-11=-278/305

### NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 7-8-4, Exterior(2E) 7-8-4 to 9-8-4, Interior (1) 9-8-4 to 11-11-6, Exterior(2R) 11-11-6 to 14-11-6, Interior (1) 14-11-6 to 21-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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 370 lb uplift at joint 8 and 490 lb uplift at joint 2.
- 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



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31,2022



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Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	T-23	Нір	1	1	Job Reference (optional)	T29090863

Run: 8.62 S Aug 22 2022 Print: 8.620 S Aug 22 2022 MiTek Industries, Inc. Fri Oct 28 12:42:28 ID:QOAmPMm9igWVfiuK\_KploSyy6UK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

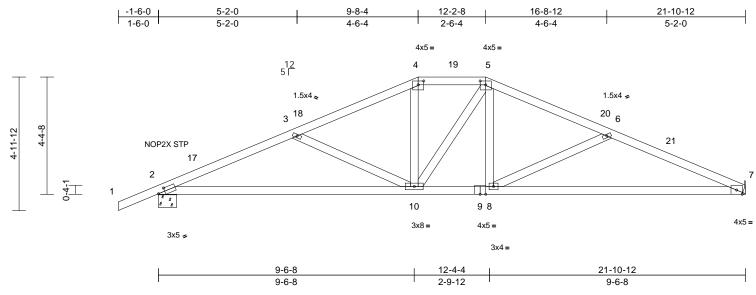


Plate Offsets (X, Y): [2:0-3-0,0-1-8], [4:0-2-8,0-1-12], [5:0-2-8,0-1-12]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	-0.15	8-13	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.33	8-13	>796	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.09	8-13	>999	240	Weight: 102 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 2x4 SP No.2 WEBS

### **BRACING**

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied.

REACTIONS 2=0-8-0, 7= Mechanical (size) Max Horiz 2=116 (LC 11)

Max Uplift 2=-490 (LC 12), 7=-370 (LC 12)

Max Grav 2=894 (LC 1), 7=807 (LC 1)

(lb) - Maximum Compression/Maximum **FORCES** Tension

TOP CHORD 1-2=0/31, 2-3=-1603/966, 3-4=-1260/735,

4-5=-1100/736, 5-6=-1263/737,

6-7=-1619/962

**BOT CHORD** 2-10=-830/1463, 8-10=-479/1102,

7-8=-821/1482

3-10=-391/366, 4-10=-93/319,

5-10=-123/120, 5-8=-98/323, 6-8=-409/379

# WEBS NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 9-8-4, Exterior(2E) 9-8-4 to 12-2-8, Exterior(2R) 12-2-8 to 16-5-7, Interior (1) 16-5-7 to 21-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 370 lb uplift at joint 7 and 490 lb uplift at joint 2.
- 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



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31,2022

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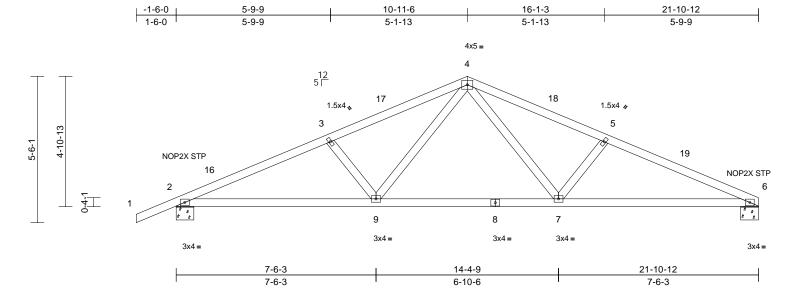
ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	T-24	Common	3	1	Job Reference (optional)	T29090864

Run: 8.62 S Aug 22 2022 Print: 8.620 S Aug 22 2022 MiTek Industries, Inc. Fri Oct 28 12:42:29 ID:yN16Va8YxiztQivKxPt6hUyy6V8-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:43.3

Plate Offsets (X, Y): [6:0-1-14,0-0-2]

-	-					-						
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	-0.07	7-12	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.15	7-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.09	7-12	>999	240	Weight: 95 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 2x4 SP No.2 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied. BOT CHORD

Rigid ceiling directly applied. REACTIONS 2=0-8-0, 6=0-8-0

(size) Max Horiz 2=128 (LC 11)

> Max Uplift 2=-490 (LC 12), 6=-370 (LC 12) Max Grav 2=894 (LC 1), 6=807 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-3=-1597/1016, 3-4=-1427/943,

4-5=-1439/961, 5-6=-1611/1033

BOT CHORD 2-9=-861/1446, 7-9=-486/969, 6-7=-864/1462 WEBS 4-7=-280/521, 5-7=-326/371, 4-9=-261/504,

3-9=-316/363

## NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 10-11-6, Exterior(2R) 10-11-6 to 13-11-6, Interior (1) 13-11-6 to 21-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 370 lb uplift at joint 6 and 490 lb uplift at joint 2.
- 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



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31,2022

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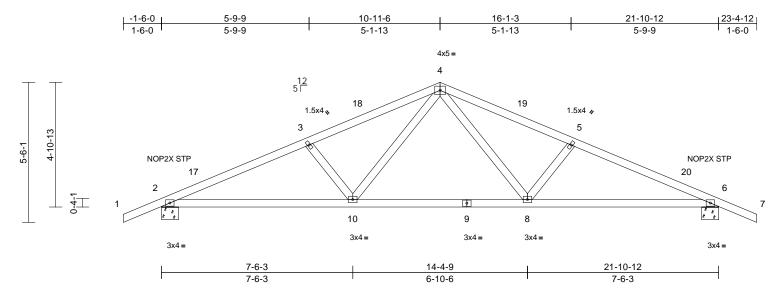
\*\*ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	T-25	Common	1	1	Job Reference (optional)	T29090865

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Page: 1



Scale = 1:45.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	-0.07	10-13	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.15	10-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.08	10	>999	240	Weight: 98 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 2x4 SP No.2 WEBS

**BRACING** 

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

REACTIONS 2=0-8-0, 6=0-8-0 (size)

Max Horiz 2=126 (LC 11) Max Uplift 2=-485 (LC 12), 6=-485 (LC 12) Max Grav 2=891 (LC 1), 6=891 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-3=-1590/998, 3-4=-1420/925,

4-5=-1420/925, 5-6=-1590/998, 6-7=0/31

2-10=-777/1440, 8-10=-426/963, BOT CHORD

6-8=-802/1440

WFBS 4-8=-265/505, 5-8=-316/362, 4-10=-265/505,

3-10=-316/362

### NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 10-11-6, Exterior(2R) 10-11-6 to 13-11-6, Interior (1) 13-11-6 to 23-4-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 485 lb uplift at joint 2 and 485 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



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

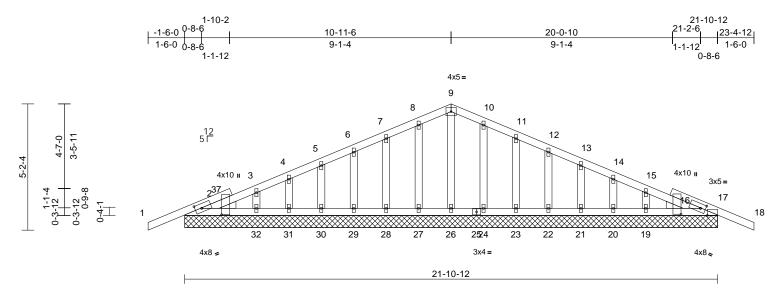
October 31,2022



Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	T-26	Common Supported Gable	1	1	Job Reference (optional)	T29090866

Run: 8.62 E Aug 31 2022 Print: 8.620 E Aug 31 2022 MiTek Industries, Inc. Mon Oct 31 08:40:21 ID:ZlcbnOfTpq6uZV2MFRtnFWyxrVM-kB?0y61htGHQ1zpHPp22Xc?6blyngrKSTIHIMOyNytA

Page: 1



Scale = 1:47.3

Plate Offsets (X, Y): [2:0-3-3,0-2-4], [2:0-3-2,0-9-13], [16:0-2-14,0-9-9], [16:0-3-6,Edge], [16:0-2-7,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.01	36	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 122 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 OTHERS 2x4 SP No.2 Left: 2x4 SP No 2 WEDGE Right: 2x4 SP No.2

### **BRACING**

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

REACTIONS All bearings 21-10-12.

(lb) - Max Horiz 2=121 (LC 11)

Max Uplift All uplift 100 (lb) or less at joint(s) 17, 19, 21, 22, 23, 24, 27, 28, 29, 30, 32, 36 except 2=-371 (LC 12), 16=-381 (LC 12), 20=-137 (LC 12),

31=-145 (LC 12) Max Grav All reactions 250 (lb) or less at joint

(s) 17, 19, 20, 21, 22, 23, 24, 26, 27, 28, 29, 30, 31, 32, 36 except 2=313 (LC 1), 16=360 (LC 1)

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

# **FORCES** NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 10-11-6, Corner(3R) 10-11-6 to 13-11-6, Exterior(2N) 13-11-6 to 23-4-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 28, 29, 30, 32, 24, 23, 22, 21, 19, 17, 17 except (jt=lb) 31=144, 20=136, 16=380, 2=371.
- 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



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31,2022



Chesterfield, MO 63017

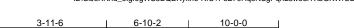
Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	T-27	Jack-Closed Girder	1	1	Job Reference (optional)	T29090867

3-11-6

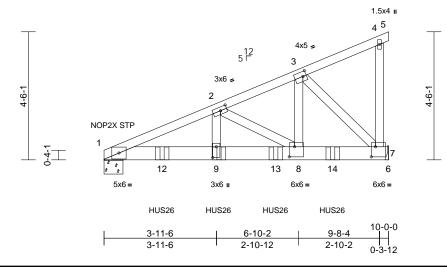
Arnold Truss Mfg. LLC, Ocala, FL - 34475,

Run: 8.62 S Aug 22 2022 Print: 8.620 S Aug 22 2022 MiTek Industries, Inc. Fri Oct 28 12:42:30 ID:SIJ6XNnd\_6lgf6gWS3EQBRyxri6-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

3-1-14



2-10-12



Scale = 1:40.5

Plate Offsets (X, Y): [1:0-3-5,0-0-2], [2:0-2-12,0-1-8], [3:0-1-8,0-2-0], [7:0-1-12,0-4-4], [8:0-2-4,0-4-4], [9:0-4-8,0-1-8]

•						·						
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	-0.07	9-11	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	1.00	Vert(CT)	-0.12	9-11	>956	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.09	9-11	>999	240	Weight: 60 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.1 2x4 SP No.2 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or 2-7-13 oc purlins, except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 5-9-1 oc

bracing.

REACTIONS 1=0-8-0, 7= Mechanical (size)

Max Horiz 1=274 (LC 5)

Max Uplift 1=-887 (LC 8), 7=-990 (LC 8) Max Grav 1=1876 (LC 1), 7=2013 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

1-2=-3761/1763, 2-3=-1852/895, TOP CHORD 3-4=-123/68, 4-5=-6/0, 4-7=-85/82

1-9=-1637/3424, 8-9=-1637/3424, BOT CHORD

7-8=-830/1683, 6-7=0/0 WFBS 3-7=-2339/1175, 2-9=-657/1479,

2-8=-1987/1001, 3-8=-1022/2176

### NOTES

- Wind: ASCE 7-16; Vult=150mph (3-second gust) 1) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 887 lb uplift at joint 1 and 990 lb uplift at joint 7.
- Use MiTek HUS26 (With 14-16d nails into Girder & 4-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-8 from the left end to 8-0-8 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber. 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25,

Plate Increase=1.25 Uniform Loads (lb/ft)

Vert: 1-4=-54, 4-5=-54, 1-6=-20

Concentrated Loads (lb)

Vert: 9=-787 (B), 12=-787 (B), 13=-787 (B), 14=-787



Page: 1

Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

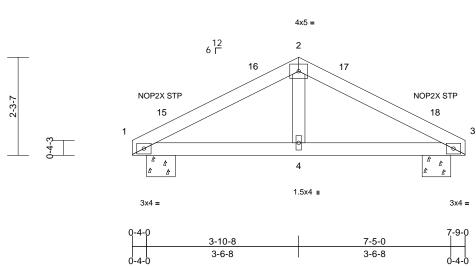
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	T-28	Common	1	1	Job Reference (optional)	T29090868

Run: 8.62 S Aug 22 2022 Print: 8.620 S Aug 22 2022 MiTek Industries, Inc. Fri Oct 28 12:42:31 ID:FQI1jcp6kUxUZdhHMiHrfAyy6Nq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:26.8

Plate Offsets (X, Y): [1:0-1-4,0-0-2]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	0.00	4-9	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	-0.01	4-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.01	4-9	>999	240	Weight: 27 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 2x4 SP No.2 WEBS

**BRACING** 

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

REACTIONS 1=0-8-0, 3=0-8-0

(size) Max Horiz 1=61 (LC 11)

Max Uplift 1=-132 (LC 12), 3=-132 (LC 12) Max Grav 1=287 (LC 1), 3=287 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-325/410, 2-3=-325/410 **BOT CHORD** 

1-4=-246/250, 3-4=-231/250

**WEBS** 2-4=-48/147

### NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 3-10-8, Exterior(2R) 3-10-8 to 6-10-8, Interior (1) 6-10-8 to 7-9-0 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 132 lb uplift at joint 1 and 132 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



Page: 1

MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31,2022

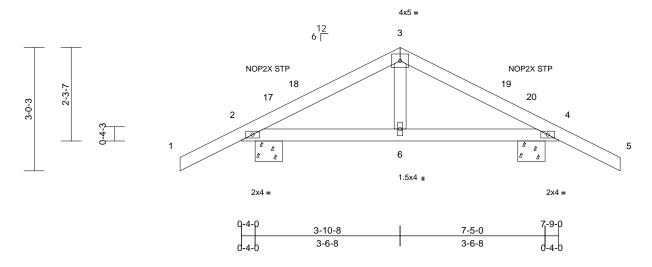


Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	T-29	Common	1	1	Job Reference (optional)	T29090869

Run: 8.62 S Aug 22 2022 Print: 8.620 S Aug 22 2022 MiTek Industries, Inc. Fri Oct 28 12:42:31 ID:Mf3WtElbgGQ240OV7sCvUKyy6Nu-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:28.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.21	Vert(LL)	0.00	6-16	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	-0.01	6-16	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.01	6-11	>999	240	Weight: 32 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 2x4 SP No.2 WEBS

**BRACING** TOP CHORD

Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied.

REACTIONS 2=0-8-0, 4=0-8-0 (size) Max Horiz 2=-84 (LC 10)

Max Uplift 2=-243 (LC 12), 4=-243 (LC 12)

Max Grav 2=368 (LC 1), 4=368 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/36, 2-3=-503/274, 3-4=-503/274,

4-5=0/36

BOT CHORD 2-6=-237/700, 4-6=-236/700

**WEBS** 3-6=0/137

### NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 3-10-8, Exterior(2R) 3-10-8 to 6-10-8, Interior (1) 6-10-8 to 9-3-0 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 243 lb uplift at joint 2 and 243 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



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

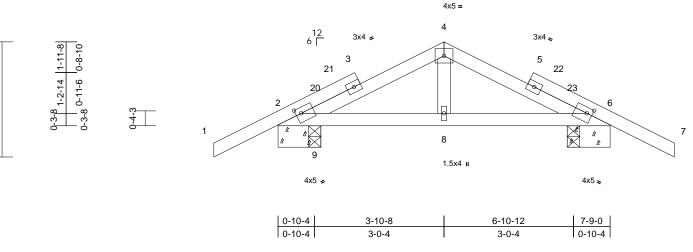
\*\*ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	T-30	Common Structural Gable	1	1	Job Reference (optional)	T29090870

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-1-6-0	1-9-7	3-10-8	5-11-9	7-9-0	9-3-0
160	107	2 1 1	2 1 1	107	160



Scale = 1:26.9

Plate Offsets (X, Y): [2:0-1-8,0-1-9], [6:0-1-8,0-1-9]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.21	Vert(LL)	0.00	8-19	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	-0.01	8-19	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.01	8-19	>999	240	Weight: 36 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 2x4 SP No.2 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied. BOT CHORD

Rigid ceiling directly applied.

REACTIONS 2=1-0-0, 6=1-0-0, 9=0-3-8 (size)

Max Horiz 2=-74 (LC 10) Max Uplift 2=-310 (LC 12), 6=-247 (LC 12),

9=-49 (I C 9)

Max Grav 2=291 (LC 1), 6=364 (LC 1), 9=129

(LC 17)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/36, 2-4=-290/266, 4-6=-277/232, 6-7=0/36

**BOT CHORD** 2-9=-238/220, 8-9=-21/238, 6-8=-21/256

WEBS 4-8=0/130

### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 3-10-8, Exterior(2R) 3-10-8 to 6-10-8, Interior (1) 6-10-8 to 9-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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 310 lb uplift at joint 2, 247 lb uplift at joint 6 and 49 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



Page: 1

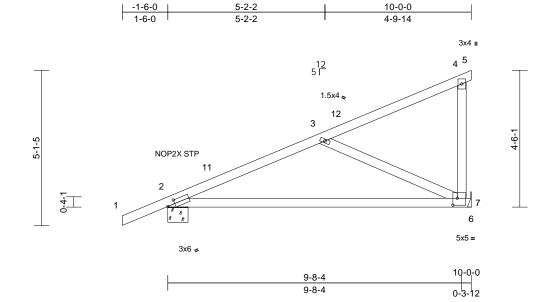
Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31,2022



Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	J10	Jack-Closed	1	1	Job Reference (optional)	T29090871

Run: 8.62 S Aug 22 2022 Print: 8.620 S Aug 22 2022 MiTek Industries, Inc. Fri Oct 28 12:42:11 ID:?eGDEq5zRz?DULmcLepif8yy6WV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:38

Plate Offsets (X, Y): [2:0-3-0,0-1-8], [7:0-1-12,0-2-12]

-							-					•
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	-0.18	7-10	>664	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.36	7-10	>327	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	-0.01	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	-0.05	7-10	>999	240	Weight: 47 lb	FT = 20%

#### LUMBER

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

**BRACING** 

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

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-8-0, 7= Mechanical

Max Horiz 2=294 (LC 9)

Max Uplift 2=-272 (LC 12), 7=-190 (LC 12)

Max Grav 2=445 (LC 1), 7=376 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** Tension

1-2=0/31, 2-3=-493/350, 3-4=-193/102,

4-5=-6/0, 4-7=-141/284 2-7=-589/544, 6-7=0/0 BOT CHORD

**WEBS** 3-7=-450/546

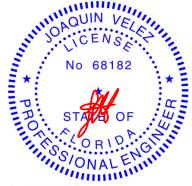
### NOTES

TOP CHORD

- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 10-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 272 lb uplift at joint 2 and 190 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



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

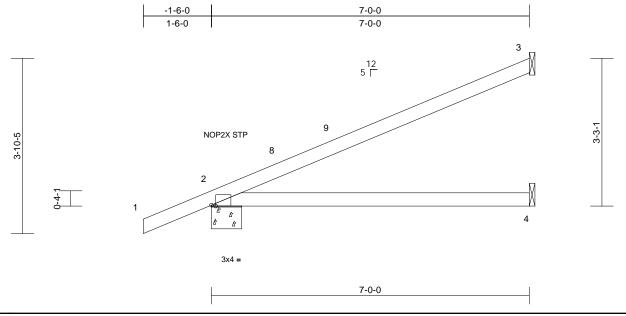
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	J7	Jack-Open	9	1	Job Reference (optional)	T29090872

Run: 8.62 S Aug 22 2022 Print: 8.620 S Aug 22 2022 MiTek Industries, Inc. Fri Oct 28 12:42:09 ID:n3eF5ooWv5wPjuqua8xurlyy8tx-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:25.4

Plate Offsets	(X,	Y):	[2:0-1	-2,Edge]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.86	Vert(LL)	-0.08	4-7	>992	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0.19	4-7	>428	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.18	4-7	>472	240	Weight: 24 lb	FT = 20%

#### LUMBER

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

### **BRACING**

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied.

**REACTIONS** (size) 2=0-8-0, 3= Mechanical, 4= Mechanical

Max Horiz 2=209 (LC 12)

Max Uplift 2=-210 (LC 12), 3=-151 (LC 12) Max Grav 2=346 (LC 1), 3=168 (LC 1), 4=121

(LC 3)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

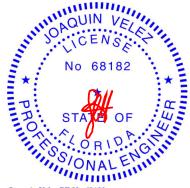
TOP CHORD 1-2=0/31, 2-3=-189/77

2-4=-86/188 **BOT CHORD** 

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 6-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 151 lb uplift at joint 3 and 210 lb uplift at joint 2.
- 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



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31,2022

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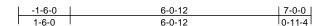
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

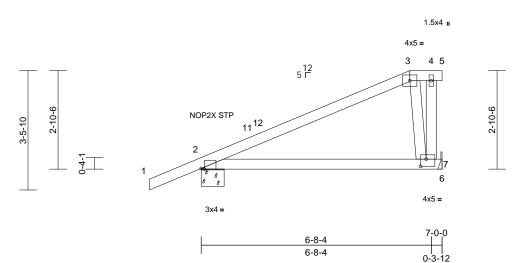
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	J7A	Half Hip	1	1	Job Reference (optional)	T29090873

Run: 8.62 S Aug 22 2022 Print: 8.620 S Aug 22 2022 MiTek Industries, Inc. Fri Oct 28 12:42:09 ID:uvelkpVXIdwDug3esLQ66Kyy8ns-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:33.5

Plate Offsets (X, Y): [2:0-1-2,Edge], [7:0-2-0,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	-0.07	7-10	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.16	7-10	>508	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.13	7-10	>640	240	Weight: 31 lb	FT = 20%

### LUMBER

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

**BRACING** 

TOP CHORD Structural wood sheathing directly applied,

except end verticals. BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-8-0, 7= Mechanical

Max Horiz 2=187 (LC 11)

Max Uplift 2=-234 (LC 12), 7=-133 (LC 9)

Max Grav 2=337 (LC 21), 7=262 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-3=-173/81, 3-4=-82/89, 4-5=0/0,

4-7=-38/82

BOT CHORD 2-7=-132/134, 6-7=0/0

**WEBS** 3-7=-211/323

### NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 6-0-12, Exterior(2E) 6-0-12 to 7-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 133 lb uplift at joint 7 and 234 lb uplift at joint 2.
- 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



Page: 1

MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

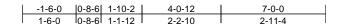
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

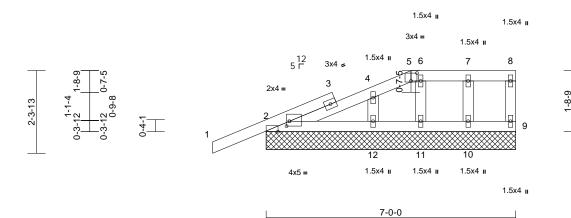


Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	J7B	Half Hip Supported Gable	1	1	Job Reference (optional)	T29090874

Run: 8.62 S Aug 22 2022 Print: 8.620 S Aug 22 2022 MiTek Industries, Inc. Fri Oct 28 12:42:10 ID:JZR8e5M3aRt8va?IWIBmVIyy8ml-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:32.3

Plate Offsets (X, Y): [2:0-0-15,0-1-10], [2:0-3-13,Edge], [5:0-2-0,0-2-11]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 32 lb	FT = 20%

### LUMBER

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

### BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size)

2=7-0-0, 9=7-0-0, 10=7-0-0, 11=7-0-0, 12=7-0-0, 13=7-0-0

Max Horiz 2=111 (LC 11), 13=111 (LC 11) Max Uplift 2=-188 (LC 12), 9=-24 (LC 9),

10=-74 (LC 8), 11=-61 (LC 9), 12=-51 (LC 12), 13=-188 (LC 12)

Max Grav 2=200 (LC 1), 9=33 (LC 1), 10=113 (LC 22), 11=68 (LC 1), 12=176 (LC

1), 13=200 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

TOP CHORD

1-2=0/31, 2-4=-155/98, 4-5=-55/54, 5-6=-45/59, 6-7=-45/59, 7-8=-45/59,

8-9=-27/68

2-12=-45/95, 11-12=-45/59, 10-11=-45/59,

9-10=-45/59

7-10=-93/212, 6-11=-89/196, 4-12=-164/248

### WEBS NOTES

**BOT CHORD** 

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-6-0 to 1-4-14, Exterior(2N) 1-4-14 to 4-0-12, Corner(3E) 4-0-12 to 6-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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.
- 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 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing. Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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 188 lb uplift at joint 2, 24 lb uplift at joint 9, 74 lb uplift at joint 10, 61 lb uplift at joint 11, 51 lb uplift at joint 12 and 188 lb uplift at
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31,2022

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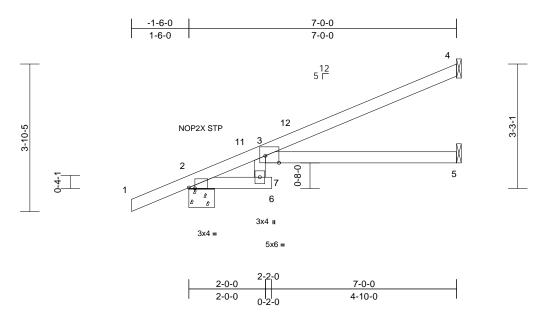
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\*\*ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job		Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0	)558-A1	J7T	Jack-Open	7	1	Job Reference (optional)	T29090875

Run: 8.62 S Aug 22 2022 Print: 8.620 S Aug 22 2022 MiTek Industries, Inc. Fri Oct 28 12:42:10 ID:cl6Dd5hxUqEvbGU6vhGFruyy8sn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:30.1

Plate Offsets (X, Y): [2:0-1-14,Edge], [3:0-4-4,0-2-3]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.68	Vert(LL)	-0.11	3-5	>729	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.23	3-5	>360	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.09	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.25	3-5	>335	240	Weight: 25 lb	FT = 20%

### LUMBER

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

### **BRACING**

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

REACTIONS (size) 2=0-8-0, 4= Mechanical, 5= Mechanical

Max Horiz 2=209 (LC 12)

Max Uplift 2=-207 (LC 12), 4=-134 (LC 12),

5=-3 (LC 12)

2=351 (LC 1), 4=160 (LC 1), 5=117 Max Grav

(LC 3)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-3=-205/0, 3-4=-134/74 BOT CHORD 2-7=-97/211, 6-7=0/0, 3-7=-174/274, 3-5=-3/3

NOTES

- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 6-11-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 4, 207 lb uplift at joint 2 and 3 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



Page: 1

MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

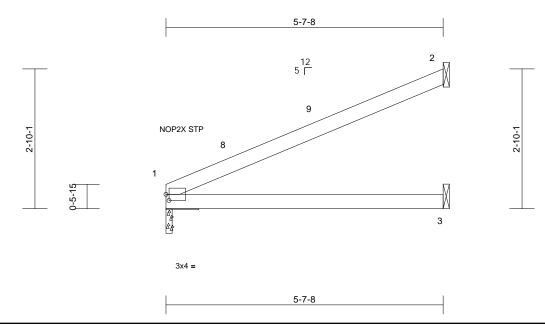
October 31,2022



Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	J5-7	Jack-Open	1	1	Job Reference (optional)	T29090876

Run: 8.62 E Aug 31 2022 Print: 8.620 E Aug 31 2022 MiTek Industries, Inc. Mon Oct 31 08:44:08 ID:6DlsJ1bJqGtR6WC68mUxkayy6Qh-WEKa0PpKxd7x?9qIKPflJv\_BT32IqQT97uFMudyNypb

Page: 1



Scale = 1:23.4

Plate Offsets (X, Y): [1:0-0-12,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	-0.04	3-5	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.08	3-5	>793	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.09	3-5	>767	240	Weight: 18 lb	FT = 20%

### LUMBER

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

### **BRACING**

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

REACTIONS (lb/size)

1=205/0-1-8, 2=138/ Mechanical, 3=66/ Mechanical

Max Horiz 1=125 (LC 12)

Max Uplift 1=-62 (LC 12), 2=-132 (LC 12) 1=205 (LC 1), 2=138 (LC 1), 3=99 Max Grav

(LC 3)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250

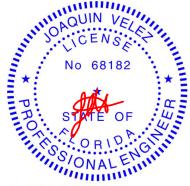
(lb) or less except when shown.

1-8=-550/185 TOP CHORD **BOT CHORD** 1-3=-363/141

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 1-2-15 to 4-2-15, Interior (1) 4-2-15 to 6-8-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 at joint(s) 1.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 1 and 132 lb uplift at joint 2.
- 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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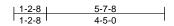
October 31,2022

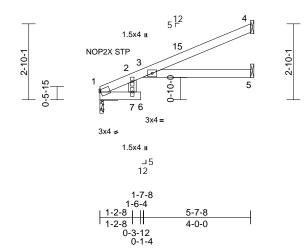


Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	J5-7T	Jack-Open	3	1	Job Reference (optional)	T29090877

Run: 8.62 E Aug 31 2022 Print: 8.620 E Aug 31 2022 MiTek Industries, Inc. Mon Oct 31 08:44:29 ID:Hns9U9JuFC\_irzxhIRaYIkyy6R2-PH6WRb3V?4my0OwK2KXggLMpVXCWFwOFyfrz7vyNypG

Page: 1





Scale = 1:43

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	-0.05	5-14	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.10	5-14	>662	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.07	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.14	5-14	>485	240	Weight: 18 lb	FT = 20%

### LUMBER

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

**BRACING** TOP CHORD

Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (lb/size) 1=203/0-1-8, 4=123/ Mechanical,

5=80/ Mechanical

Max Horiz 1=125 (LC 12)

Max Uplift 1=-63 (LC 12), 4=-105 (LC 12),

5=-20 (LC 12)

1=203 (LC 1), 4=123 (LC 1), 5=90 Max Grav

(LC 3)

**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

TOP CHORD 3-15=-375/449 BOT CHORD 3-5=-587/432

### NOTES

- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 1-2-15 to 4-2-15, Interior (1) 4-2-15 to 6-8-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 1.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 1, 105 lb uplift at joint 4 and 20 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



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October 31,2022

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

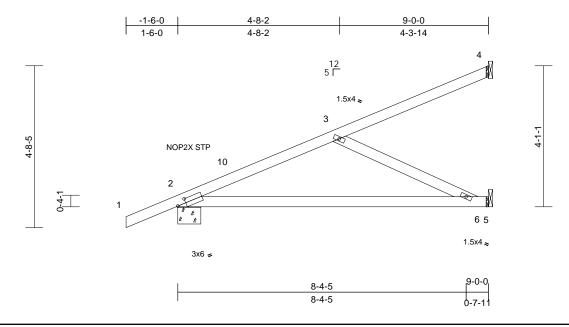
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	CJ9	Jack-Partial	2	1	Job Reference (optional)	T29090878

Run: 8.62 S Aug 22 2022 Print: 8.620 S Aug 22 2022 MiTek Industries, Inc. Fri Oct 28 12:42:07 ID:5dibaiaVQ3okXNsd9y5wEHyy6ZI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:33.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	-0.19	6-9	>559	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.39	6-9	>272	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.05	6-9	>999	240	Weight: 37 lb	FT = 20%

### LUMBER

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

**BRACING** 

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

REACTIONS (size) 2=0-8-0, 4= Mechanical, 5= Mechanical

Max Horiz 2=255 (LC 12)

Max Uplift 2=-231 (LC 12), 4=-104 (LC 12),

5=-81 (LC 12)

2=418 (LC 1), 4=88 (LC 1), 5=236 Max Grav

(LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-3=-413/304, 3-4=-94/35

BOT CHORD 2-6=-533/440, 5-6=0/0 3-6=-484/586

WFBS NOTES

- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 8-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 104 lb uplift at joint 4, 231 lb uplift at joint 2 and 81 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



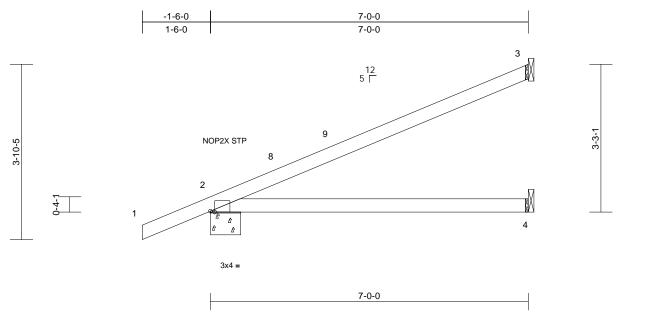
Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31,2022



Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	CJ7	Corner Jack	2	1	Job Reference (optional)	T29090879

Run: 8.62 S Aug 22 2022 Print: 8.620 S Aug 22 2022 MiTek Industries, Inc. Fri Oct 28 12:42:06 ID:VHUQU\_R1itlgYHnHpMsacFyy6Ye-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:25.4 Plate Offsets (X, Y): [2:0-1-2,Edge]

Loading TCLL (roof)	(psf) 20.0	Spacing Plate Grip DOL	2-0-0 1.25	CSI TC	0.86	DEFL Vert(LL)	in -0.08	(loc) 4-7	l/defl >992	PLATES MT20

Louding	(POI)	l obaomia	200	00.				(100)	1/ 4011			O
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.86	Vert(LL)	-0.08	4-7	>992	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0.19	4-7	>428	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.18	4-7	>472	240	Weight: 24 lb	FT = 20%

LUMBER

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

**BRACING** 

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied.

**REACTIONS** (size) 2=0-8-0, 3= Mechanical, 4= Mechanical

Max Horiz 2=209 (LC 12)

Max Uplift 2=-210 (LC 12), 3=-151 (LC 12) Max Grav 2=346 (LC 1), 3=168 (LC 1), 4=121

(LC 3)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-3=-189/77

2-4=-86/188 **BOT CHORD** 

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 6-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 151 lb uplift at joint 3 and 210 lb uplift at joint 2.
- 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



GRIP

Page: 1

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October 31,2022

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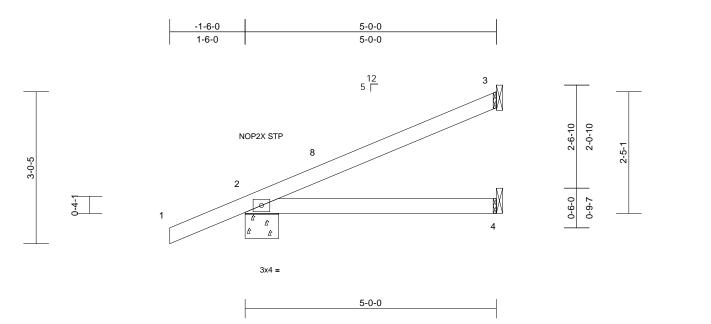
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	CJ5	Corner Jack	4	1	Job Reference (optional)	T29090880

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Scale = 1:22.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	-0.02	4-7	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.05	4-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.06	4-7	>999	240	Weight: 18 lb	FT = 20%

### LUMBER

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

### **BRACING**

TOP CHORD Structural wood sheathing directly applied.

Rigid ceiling directly applied. BOT CHORD

**REACTIONS** (size) 2=0-8-0, 3= Mechanical, 4= Mechanical

Max Horiz 2=164 (LC 12)

Max Uplift 2=-191 (LC 12), 3=-100 (LC 12) Max Grav 2=276 (LC 1), 3=114 (LC 1), 4=86

(LC 3)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-3=-175/59

**BOT CHORD** 2-4=-51/155

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 4-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint 3 and 191 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Page: 1

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October 31,2022

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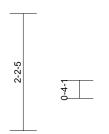
Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	CJ3	Corner Jack	4	1	Job Reference (optional)	T29090881

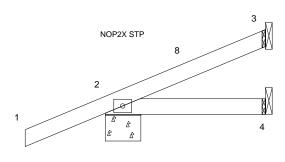
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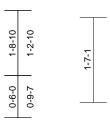
Page: 1











3x4 =

3-0-0

Scale = 1:21.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	0.00	4-7	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.01	4-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP		Wind(LL)	-0.01	4-7	>999	240	Weight: 12 lb	FT = 20%

### LUMBER

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

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.

**BOT CHORD** 

Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=0-8-0, 3= Mechanical, 4=

Mechanical Max Horiz 2=118 (LC 12)

Max Uplift 2=-180 (LC 12), 3=-46 (LC 12)

Max Grav 2=210 (LC 1), 3=59 (LC 1), 4=49

(LC 3)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-3=-162/36

BOT CHORD 2-4=-26/114

### NOTES

- Wind: ASCE 7-16: Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 2-11-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 46 lb uplift at joint 3 and 180 lb uplift at joint 2.

LOAD CASE(S) Standard



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October 31,2022

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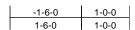
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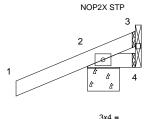
Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	CJ1	Corner Jack	8	1	Job Reference (optional)	T29090882

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\_12 5 □





1-0-0

Scale = 1:24.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	0.00	5	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	0.00	5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP		Wind(LL)	0.00	7	>999	240	Weight: 6 lb	FT = 20%

### LUMBER

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

### **BRACING**

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

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

**REACTIONS** (size) 2=0-8-0, 3= Mechanical, 4=

Mechanical

Max Horiz 2=74 (LC 12)

Max Uplift 2=-221 (LC 12), 3=-5 (LC 1), 4=-20

(LC 1)

Max Grav 2=179 (LC 1), 3=25 (LC 12), 4=51

(LC 12)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-3=-116/41

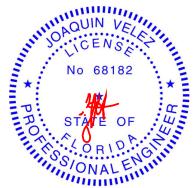
BOT CHORD 2-4=-43/124

### NOTES

- Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 221 lb uplift at joint 2, 20 lb uplift at joint 4 and 5 lb uplift at joint 3.

LOAD CASE(S) Standard



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October 31,2022

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

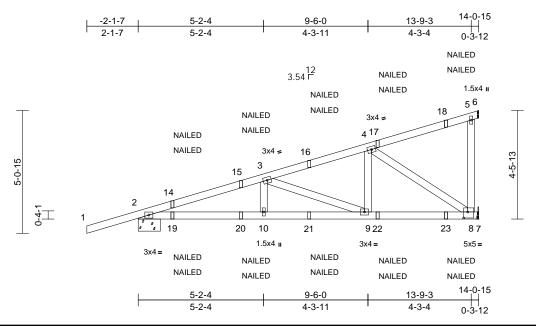
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	HJ14-1	Diagonal Hip Girder	1	1	Job Reference (optional)	T29090883

Run: 8.62 S Aug 22 2022 Print: 8.620 S Aug 22 2022 MiTek Industries, Inc. Fri Oct 28 12:42:08 ID:\_U2phKRgTBtW9RMTN4Np8Syy6Yd-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:47.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	-0.05	8-9	>999	360	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.11	8-9	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.59	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Wind(LL)	0.07	8-9	>999	240	Weight: 71 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.1 **BOT CHORD** 2x4 SP No.2 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

4-4-3 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 7-7-7 oc

bracing.

REACTIONS 2=0-10-15, 8= Mechanical (size)

Max Horiz 2=280 (LC 22)

Max Uplift 2=-326 (LC 8), 8=-625 (LC 8) Max Grav 2=803 (LC 13), 8=1209 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/32, 2-3=-1725/530, 3-4=-1199/466,

4-5=-97/44, 5-6=-5/0 **BOT CHORD** 

2-10=-649/1628, 9-10=-649/1628, 8-9=-533/1113, 7-8=0/0

WFBS 5-8=-135/163, 4-8=-1336/640, 3-10=0/162,

3-9=-598/126, 4-9=-19/630

### NOTES

- Wind: ASCE 7-16; Vult=150mph (3-second gust) 1) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 326 lb uplift at joint 2 and 625 lb uplift at joint 8.
- "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25,

Plate Increase=1.25

Uniform Loads (lb/ft)

Vert: 1-6=-54, 7-11=-20 Concentrated Loads (lb)

Vert: 16=-75 (F=-37, B=-37), 17=-183 (F=-91,

B=-91), 18=-31 (F=-15, B=-15), 19=57 (F=29, B=29),

20=-8 (F=-4, B=-4), 21=-57 (F=-28, B=-28), 22=-104

(F=-52, B=-52), 23=-417 (F=-209, B=-209)



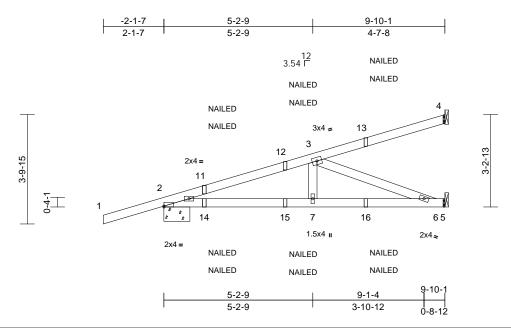
MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31,2022

Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	HJ-1	Diagonal Hip Girder	1	1	T2 Job Reference (optional)	29090884

Run: 8.62 S Aug 22 2022 Print: 8.620 S Aug 22 2022 MiTek Industries, Inc. Fri Oct 28 12:42:07 ID:0ohe\_tvAos27IG0ccXb?jByy8to-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:40.3

Plate Offsets (X, Y): [2:Edge,0-0-6]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	тс	0.39	Vert(LL)	-0.06	7-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.08	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 42 lb	FT = 20%

### LUMBER

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

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-10-15, 4= Mechanical, 5=

Mechanical Max Horiz 2=209 (LC 22)

Max Uplift 2=-215 (LC 8), 4=-121 (LC 8),

5=-67 (LC 8)

2=530 (LC 13), 4=125 (LC 1), Max Grav

5=324 (LC 13)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/32, 2-3=-860/173, 3-4=-64/28 **BOT CHORD** 2-7=-253/801, 6-7=-253/801, 5-6=0/0

3-7=0/269. 3-6=-853/269

### **WEBS** NOTES

- Wind: ASCE 7-16; Vult=150mph (3-second gust) 1) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 121 lb uplift at joint 4, 215 lb uplift at joint 2 and 67 lb uplift at joint 5.
- "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25,

Plate Increase=1.25 Uniform Loads (lb/ft)

Vert: 1-4=-54, 5-8=-20

Concentrated Loads (lb)

Vert: 13=-75 (F=-37, B=-37), 14=57 (F=29, B=29),

15=-8 (F=-4, B=-4), 16=-57 (F=-28, B=-28)



Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31,2022

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\*\*ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



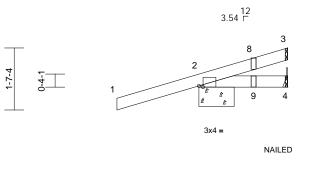
Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	HJ2-3	Diagonal Hip Girder	1	1	Job Reference (optional)	T29090885

Run: 8.62 S Aug 22 2022 Print: 8.620 S Aug 22 2022 MiTek Industries, Inc. Fri Oct 28 12:42:07 ID:98s1U9VadkG4nPrv20ooDNyxriU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



NAILED

NAILED



NAILED

2-3-9

Scale = 1:29.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	-0.02	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.02	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 10 lb	FT = 20%

### LUMBER

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

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or 2-3-9 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-10-15, 4= Mechanical

Max Horiz 2=100 (LC 8)

Max Uplift 2=-225 (LC 4), 4=-88 (LC 17) Max Grav 2=235 (LC 1), 4=207 (LC 20)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/32, 2-3=-242/136

BOT CHORD 2-4=-142/244

**FORCES** 

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 225 lb uplift at joint 2 and 88 lb uplift at joint 4.
- "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

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

### LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25,

Plate Increase=1.25 Uniform Loads (lb/ft) Vert: 1-3=-54, 4-5=-20 Concentrated Loads (lb) Vert: 9=45 (F=23, B=23)



Page: 1

Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 31,2022

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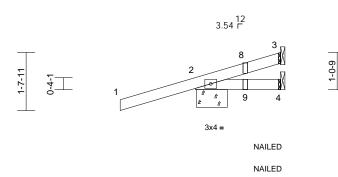
Job	Truss	Truss Type	Qty	Ply	LINCOLN MODEL III	
22-0558-A1	HJ2-4	Diagonal Hip Girder	1	1	Job Reference (optional)	T29090886

Run: 8.62 S Aug 22 2022 Print: 8.620 S Aug 22 2022 MiTek Industries, Inc. Fri Oct 28 12:42:08 ID:PyQwl2wBkgFDoBhwXiZQ5Byy6Wj-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

-2-1-7	2-4-15
2-1-7	2-4-15

NAILED

NAILED



Scale = 1:32.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	-0.01	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	0.01	4-7	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 11 lb	FT = 20%

0 - 0 - 6

0-0-6

2-4-9

### LUMBER

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

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

2-4-15 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

2=0-10-9, 3= Mechanical, 4= **REACTIONS** (size) Mechanical

Max Horiz 2=89 (LC 22)

Max Uplift 2=-221 (LC 8), 3=-31 (LC 17),

4=-50 (LC 17)

Max Grav 2=234 (LC 1), 3=88 (LC 22), 4=108

(LC 22)

**FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/32, 2-3=-261/145

BOT CHORD 2-4=-146/251

### NOTES

- 1) Wind: ASCE 7-16; Vult=150mph (3-second gust) Vasd=116mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 31 lb uplift at joint 3, 221 lb uplift at joint 2 and 50 lb uplift at joint 4.

- 7) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25,

Plate Increase=1.25 Uniform Loads (lb/ft)

Vert: 1-3=-54, 4-5=-20

Concentrated Loads (lb)

Vert: 9=48 (F=24, B=24)



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October 31,2022

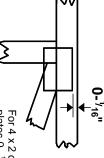


### Symbols

## PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- <sup>1</sup>/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

\* Plate location details available in MiTek 20/20 software or upon request.

### PLATE SIZE

4 × 4

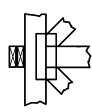
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

### **BEARING**



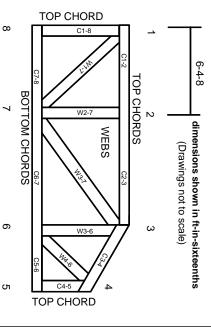
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

### Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

## **Numbering System**



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

## PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

# **General Safety Notes**

# Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber

9

- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21.The design does not take into account any dynamic or other loads other than those expressly stated.