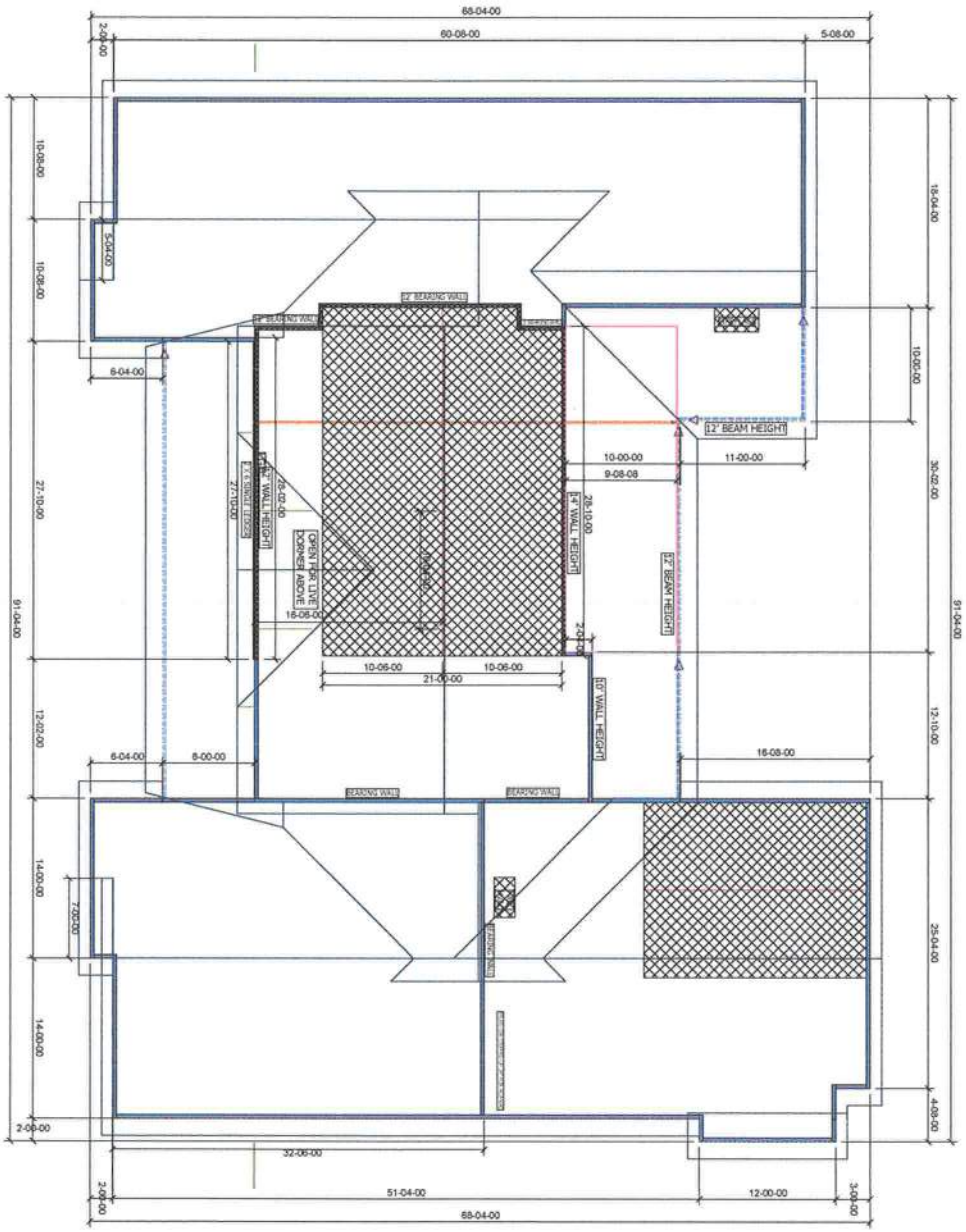
TRY TO GET HIGHER CEILING AT GREAT ROOM.

RAISE REAR WALL FOR WINDOWS.



ROOF PITCH: 3/12
PORCHES,
12/12 MAIN HOUSE
CLG PITCH: 6/12
GREAT ROOM & DR.
AND MBR. HATCHED
AREAS.
O.H.: 18" PLUMB CUT
WIND: 130 MPH
EXP: "B"
LOADING: 40 PSF
WALLS: 2 X 4 X 10'
12' HEIGHT GR, DR
AND FOYER.
HATCHED WALLS.
DATE: 7/24/2024

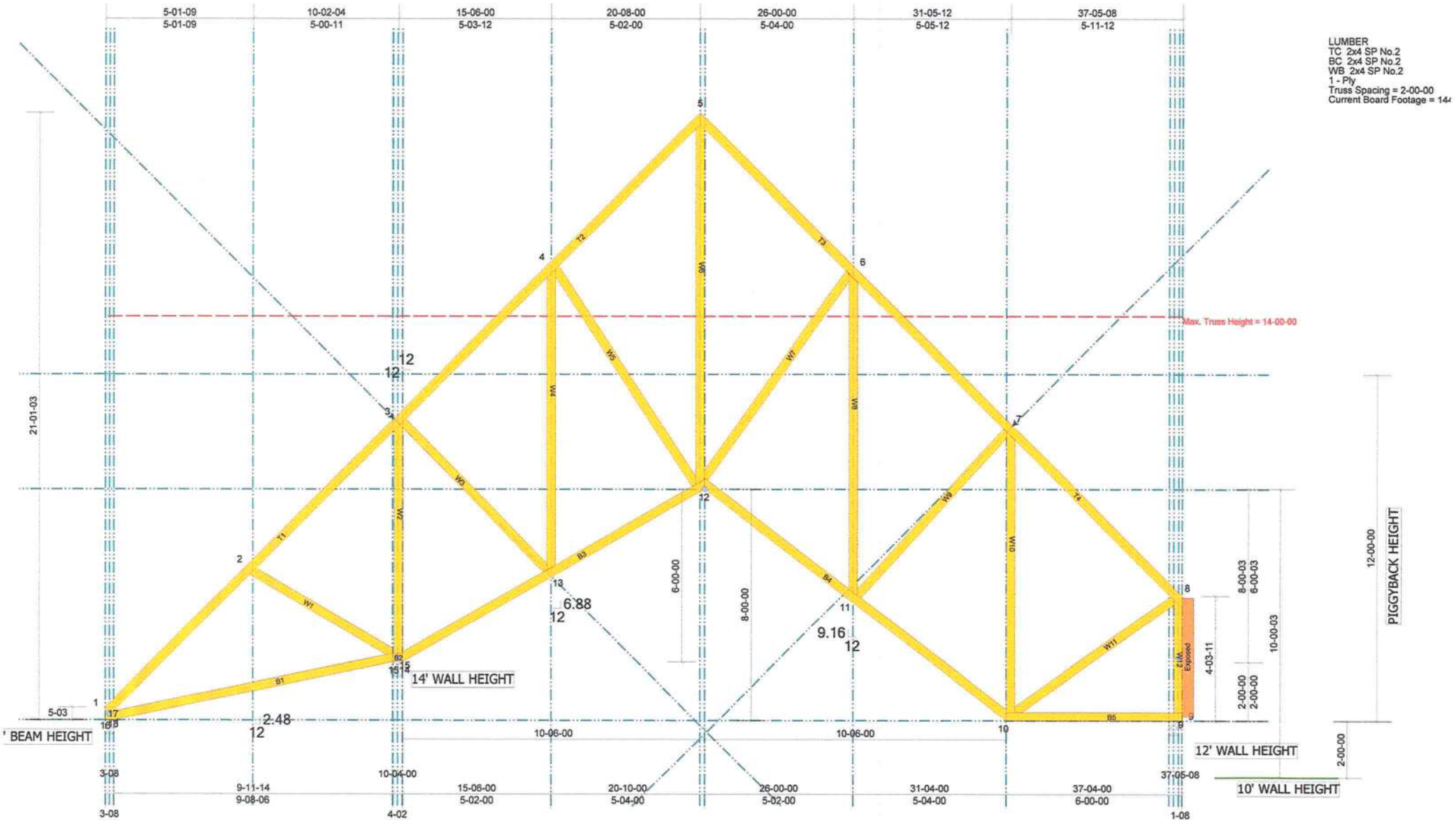
Camiel Sequeta

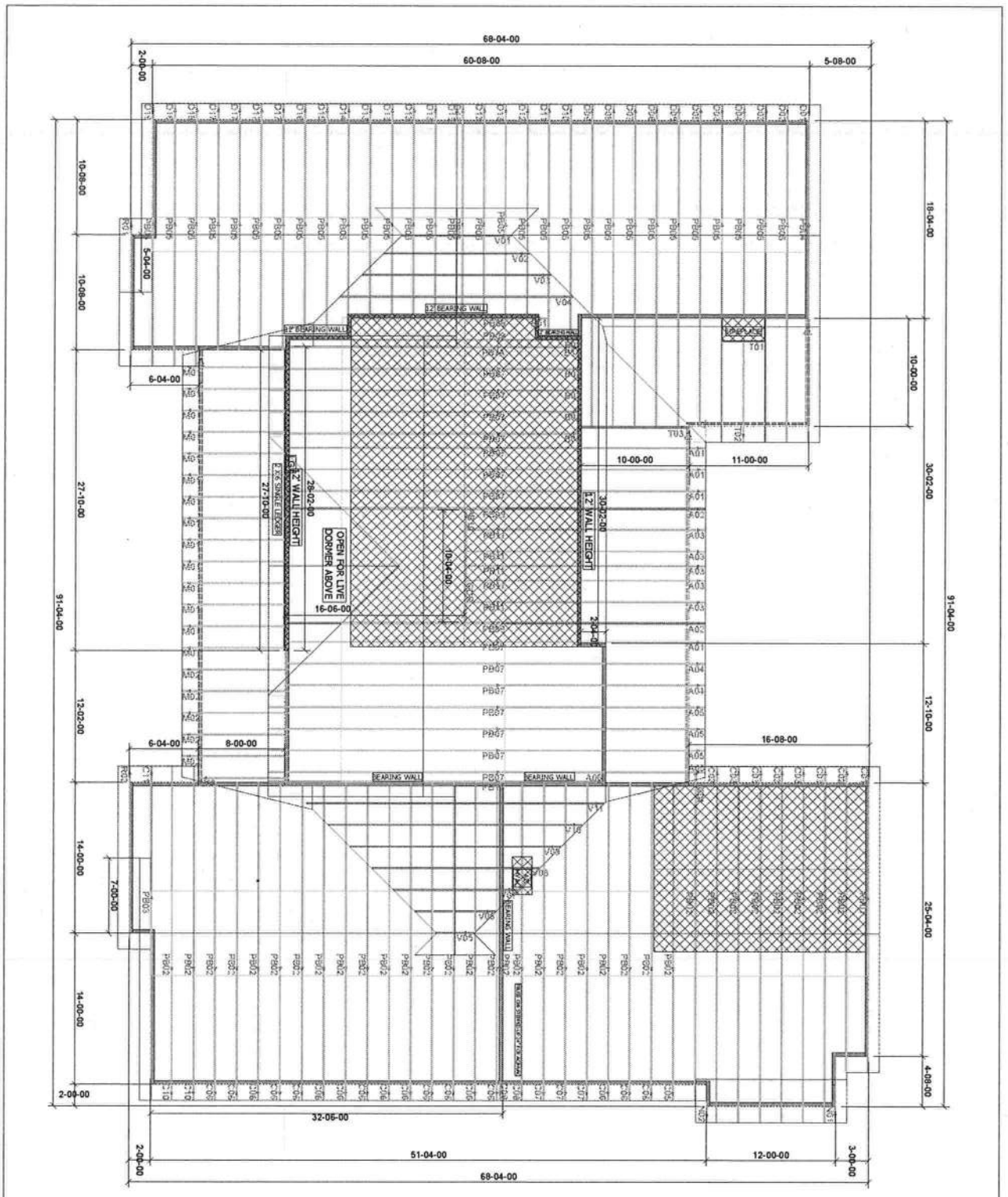
Columbia County

Client: IND-RES
Date: 8/12/2024
Quote Date: 07/24/24
Seal Date: / /
Designer: Lynn Bell
Job Number: 0724-027

Mayo Truss
Company Inc.

Ph. (386) 294-3988
Fax (386) 294-3981
mayotruss@windstream.net


5-01-09
5-01-09
10-02-04
5-00-11
15-06-00
5-03-12
20-08-00
5-02-00
26-00-00
5-04-00
31-05-12
5-05-12
37-05-08
5-11-12
LUMBER
TC 2x4 SP No.2
BC 2x4 SP No.2
WB 2x4 SP No.2
1 - Ply
Truss Spacing = 2-00-00
Current Board Footage = 144
Max. Truss Height = 14-00-00
21-01-03
12
12
6.88
12
9.16
12
2.48
12
14' WALL HEIGHT
12' WALL HEIGHT
10' WALL HEIGHT
' BEAM HEIGHT
PIGGYBACK HEIGHT
12-00-00
10-00-03
8-00-03
6-00-03
4-03-11
2-00-00
2-00-00
2-00-00
6-00-00
8-00-00
10-06-00
10-06-00
5-03
3-08
9-11-14
9-08-06
10-04-00
15-06-00
5-02-00
20-10-00
5-04-00
26-00-00
5-02-00
31-04-00
5-04-00
37-04-00
6-00-00
37-05-08
3-08
4-02
1-08
T1
T2
T3
T4
B1
B2
B3
B4
B5
W1
W2
W3
W4
W5
W6
W7
W8
W9
W10
W11
W12
Exposed



ROOF PITCH: 3/12
PORCHES,
12/12 MAIN HOUSE
CLG PITCH: 6/12
GREAT ROOM & DR.
AND MBR. HATCHED
AREAS.
O.H.: 18" PLUMB CUT
WIND: 130 MPH
EXP: "B"
LOADING: 40 PSF
WALLS: 2 X 4 X 10'
12' HEIGHT GR, DR
AND FOYER.
HATCHED WALLS.
DATE: 7/24/2024

Camiel Sequeta

Columbia County

Client: IND-RES
Date: 11/14/2024
Quote Date: 07/24/24
Seal Date: / /
Designer: Lynn Bell
Job Number: 0724-027

Mayo Truss
Company Inc.

Ph. (386) 294-3988
Fax (386) 294-3981
mayotruss@windstream.net

MiTek

Lumber design values are in accordance with ANSI/TPI 1 section 6.3
These truss designs rely on lumber values established by others.

RE: 0724-027ORIGINAL -

MiTek, Inc.
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:
Customer Info: CAMIEL SEQUETA Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
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: FBC2023/TPI2014
Design Program: MiTek 20/20 8.7
Wind Code: ASCE 7-22
Wind Speed: 130 mph
Roof Load: 40.0 psf
Floor Load: N/A psf

This package includes 75 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.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T35559962	A01	11/15/24	23	T35559984	D02	11/15/24
2	T35559963	A02	11/15/24	24	T35559985	D03	11/15/24
3	T35559964	A03	11/15/24	25	T35559986	D04	11/15/24
4	T35559965	A04	11/15/24	26	T35559987	D05	11/15/24
5	T35559966	A05	11/15/24	27	T35559988	D06	11/15/24
6	T35559967	A06	11/15/24	28	T35559989	D07	11/15/24
7	T35559968	B01	11/15/24	29	T35559990	D08	11/15/24
8	T35559969	B02	11/15/24	30	T35559991	D09	11/15/24
9	T35559970	B03	11/15/24	31	T35559992	D10	11/15/24
10	T35559971	B3A	11/15/24	32	T35559993	D11	11/15/24
11	T35559972	C01	11/15/24	33	T35559994	D12	11/15/24
12	T35559973	C02	11/15/24	34	T35559995	D13	11/15/24
13	T35559974	C03	11/15/24	35	T35559996	D14	11/15/24
14	T35559975	C04	11/15/24	36	T35559997	D15	11/15/24
15	T35559976	C05	11/15/24	37	T35559998	D16	11/15/24
16	T35559977	C06	11/15/24	38	T35559999	D17	11/15/24
17	T35559978	C07	11/15/24	39	T35560000	D18	11/15/24
18	T35559979	C08	11/15/24	40	T35560001	D19	11/15/24
19	T35559980	C09	11/15/24	41	T35560002	GDR	11/15/24
20	T35559981	C10	11/15/24	42	T35560003	M01	11/15/24
21	T35559982	C11	11/15/24	43	T35560004	M02	11/15/24
22	T35559983	D01	11/15/24	44	T35560005	M03	11/15/24

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

Truss Design Engineer's Name: Lee, Julius
My license renewal date for the state of Florida is February 28, 2025.

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

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.

MiTek®

RE: 0724-027ORIGINAL -

MiTek, Inc.
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

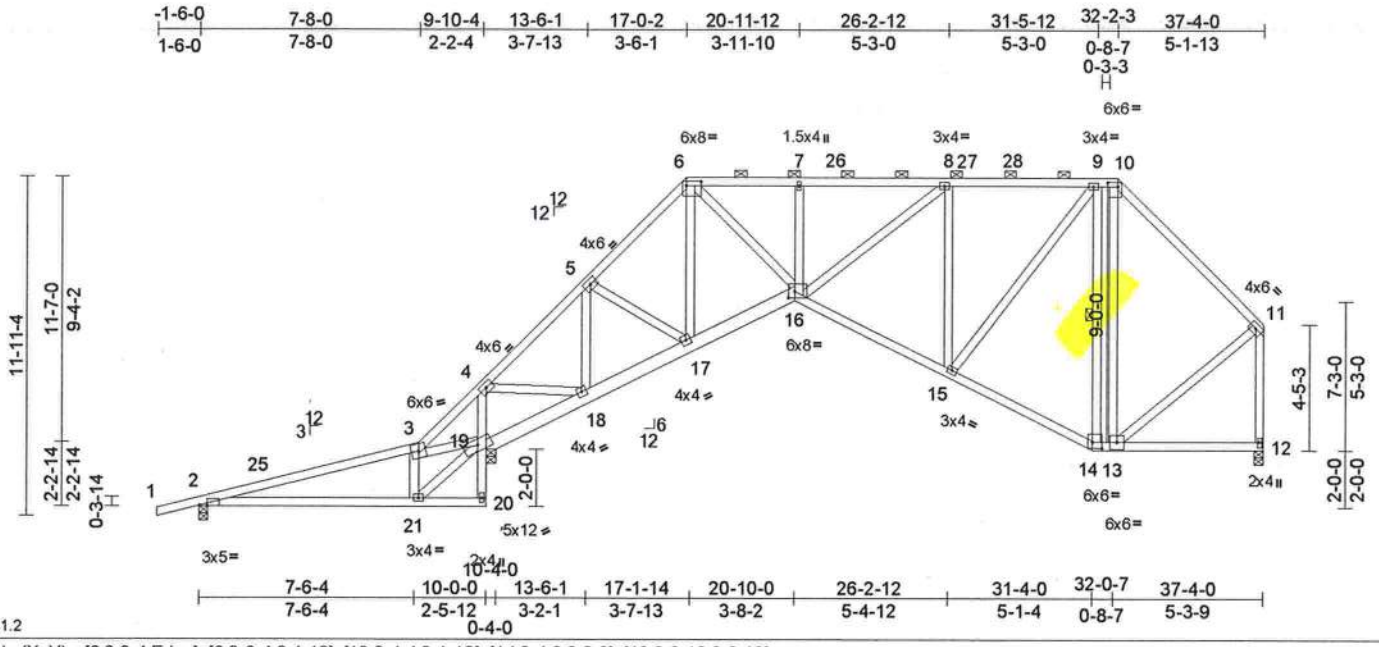
Customer Info: CAMIEL SEQUETA Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: LAKE CITY State: FL

No.	Seal#	Truss Name	Date
45	T35560006	N01	11/15/24
46	T35560007	N02	11/15/24
47	T35560008	PB01	11/15/24
48	T35560009	PB02	11/15/24
49	T35560010	PB03	11/15/24
50	T35560011	PB04	11/15/24
51	T35560012	PB05	11/15/24
52	T35560013	PB06	11/15/24
53	T35560014	PB07	11/15/24
54	T35560015	PB7A	11/15/24
55	T35560016	PB08	11/15/24
56	T35560017	PB09	11/15/24
57	T35560018	PB10	11/15/24
58	T35560019	PB11	11/15/24
59	T35560020	PB12	11/15/24
60	T35560021	R01	11/15/24
61	T35560022	R02	11/15/24
62	T35560023	T01	11/15/24
63	T35560024	T02	11/15/24
64	T35560025	T03	11/15/24
65	T35560026	V01	11/15/24
66	T35560027	V02	11/15/24
67	T35560028	V03	11/15/24
68	T35560029	V04	11/15/24
69	T35560030	V05	11/15/24
70	T35560031	V06	11/15/24
71	T35560032	V07	11/15/24
72	T35560033	V08	11/15/24
73	T35560034	V09	11/15/24
74	T35560035	V10	11/15/24
75	T35560036	V11	11/15/24

Job	Truss	Truss Type	Qty	Ply		
0724-027ORIGINAL	A01	Piggyback Base	4	1	Job Reference (optional)	T35559962

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:34 ID:RYAemoomSbMSxh_AeaTU?Xyv9hW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:81.2

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

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	0.63	Vert(LL)	-0.09	21-24	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.20	21-24	>605	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.12	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 265 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 19-16:2x6 SP No.2
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-3-1 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-15 max.): 6-10.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 9-14

REACTIONS (size) 2=0-3-8, 12=0-4-0, 19=0-4-0
Max Horiz 2=252 (LC 11)
Max Uplift 2=-54 (LC 8), 12=-1 (LC 12)
Max Grav 2=326 (LC 23), 12=1034 (LC 1), 19=1706 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/22, 2-3=-264/326, 3-4=-116/1146, 4-5=-813/88, 5-6=-1222/173, 6-7=-1560/214, 7-8=-1570/216, 8-9=-1010/156, 9-10=-489/141, 10-11=-787/133, 11-12=-1016/93
BOT CHORD 2-21=-238/113, 20-21=-44/0, 19-20=-72/4, 4-19=-1569/166, 18-19=-878/61, 17-18=-178/700, 16-17=-133/933, 15-16=-147/1142, 14-15=-94/572, 13-14=-74/489, 12-13=-54/62
WEBS 3-21=0/401, 19-21=-319/44, 3-19=-682/59, 6-17=-207/0, 5-18=-686/91, 4-18=-54/1318, 5-17=0/336, 7-16=-276/104, 6-16=-92/1111, 9-14=-557/77, 10-13=-3/110, 11-13=-31/619, 8-15=-799/149, 8-16=-75/724, 9-15=-74/864

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 2-2-13, Zone1 2-2-13 to 17-0-2, Zone2 17-0-2 to 22-3-8, Zone1 22-3-8 to 37-2-4 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Bearings are assumed to be: Joint 2 SP No.2 , Joint 19 SP No.2 , Joint 12 SP No.2 .
8) Bearing at joint(s) 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 2 and 1 lb uplift at joint 12.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply		
0724-027ORIGINAL	A02	Piggyback Base Girder	2	**2**	Job Reference (optional)	T35559963

Mayo Truss Company, Inc., Mayo, FL - 32066,

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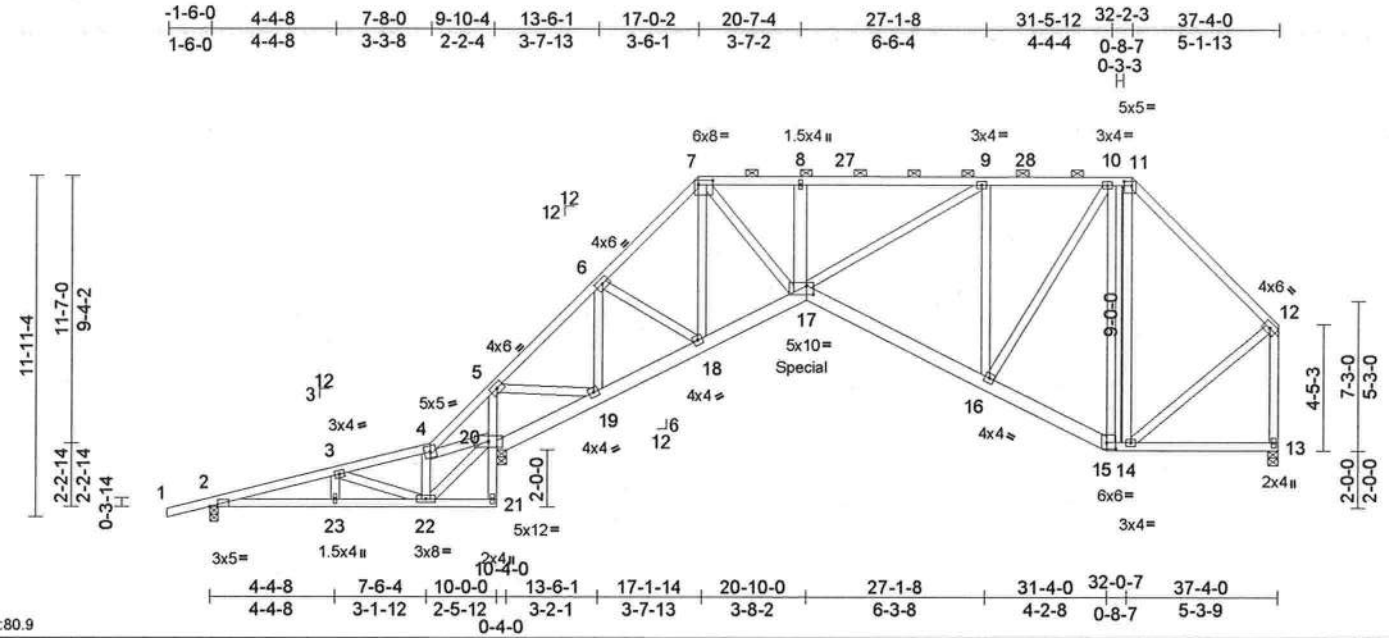


Scale = 1:80.9

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

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	0.30	Vert(LL)	-0.08	17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.34	Vert(CT)	-0.15	16-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.12	13	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 570 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 20-17,17-15:2x6 SP No.2
WEBS 2x4 SP No.2 *Except* 8-17:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-11.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 13=0-4-0, 20=0-4-0
Max Horiz 2=252 (LC 7)
Max Uplift 2=-117 (LC 23), 13=-114 (LC 8), 20=-214 (LC 8)
Max Grav 2=235 (LC 19), 13=1480 (LC 1), 20=2545 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/22, 2-3=-381/385, 3-4=-322/809, 4-5=-168/1974, 5-6=-1447/191, 6-7=-2326/318, 7-8=-3454/507, 8-9=-3436/505, 9-10=-1582/241, 10-11=-736/174, 11-12=-1135/180, 12-13=-1464/146
BOT CHORD 2-23=-361/167, 22-23=-361/167, 21-22=-55/4, 20-21=0/25, 5-20=-2743/287, 19-20=-1478/126, 18-19=-264/1212, 17-18=-303/1808, 16-17=-230/1777, 15-16=-99/871, 14-15=-78/736, 13-14=-36/42
WEBS 3-23=0/157, 3-22=-586/1, 4-22=-61/923, 20-22=-946/155, 4-20=-740/68, 7-18=-533/77, 9-16=-1598/301, 8-17=-315/80, 7-17=-389/2714, 9-17=-406/2242, 6-19=-1219/161, 5-19=-162/2331, 6-18=-49/717, 10-15=-1014/137, 11-14=0/165, 12-14=-72/939, 10-16=-220/1650

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Bearings are assumed to be: Joint 2 SP No.2 , Joint 20 SP No.2 , Joint 13 SP No.2 .
10) Bearing at joint(s) 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 2, 114 lb uplift at joint 13 and 214 lb uplift at joint 20.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1223 lb down and 305 lb up at 20-10-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-60, 4-7=-60, 7-11=-60, 11-12=-60, 21-24=-20, 17-20=-20, 15-17=-20, 13-15=-20
Concentrated Loads (lb)
Vert: 17=-1194 (B)

JULIUS LEE LICENSE No. 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

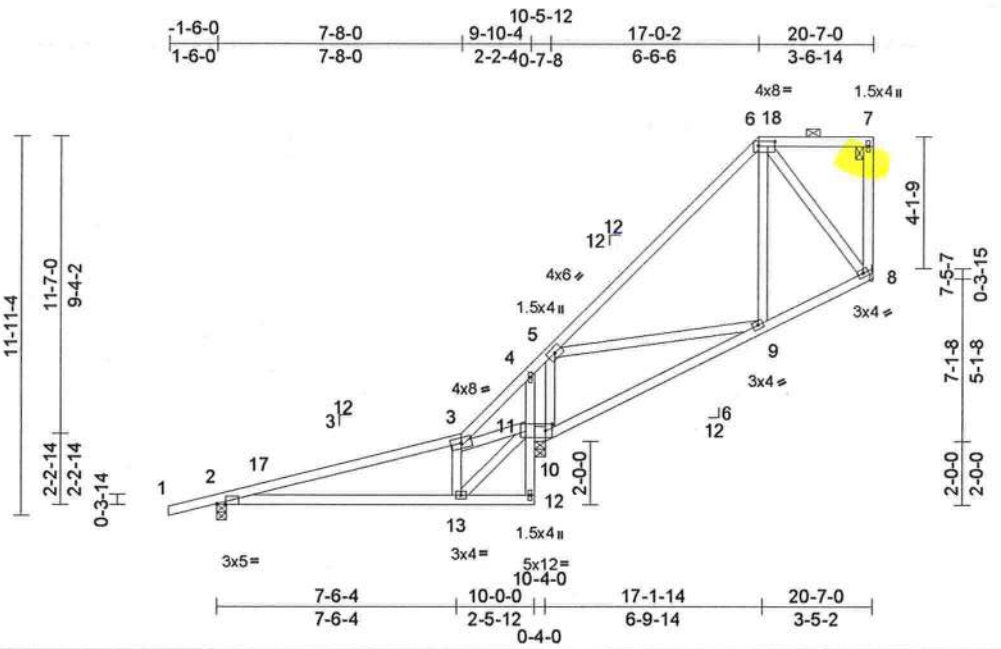
November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	A03	Piggyback Base	5	1	T35559964
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:36 Page: 1
ID:5S6C6RfxsqFKrDxQoBdoi7yvA6p-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:72.7

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

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	0.64	Vert(LL)	-0.09	13-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.21	13-16	>570	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	-0.01	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 123 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 11-10:2x6 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS (size) 2=0-3-8, 8= Mechanical, 10=0-4-0, 11=0-4-0
Max Horiz 2=251 (LC 9)
Max Uplift 2=-29 (LC 8), 8=-93 (LC 9), 10=-88 (LC 12), 11=-153 (LC 17)
Max Grav 2=458 (LC 1), 8=366 (LC 17), 10=1046 (LC 1), 11=82 (LC 12)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-488/58, 3-4=-103/257, 4-5=-259/490, 5-6=-365/78, 6-7=-64/70, 7-8=-96/53
BOT CHORD 2-13=-52/376, 12-13=-18/0, 11-12=-60/7, 4-11=-238/328, 10-11=-288/62, 9-10=-302/128, 8-9=-173/231
WEBS 3-13=-182/76, 11-13=-24/579, 3-11=-591/0, 6-9=0/163, 6-8=-267/148, 5-10=-884/364, 5-9=0/248

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 17-0-2, Zone3 17-0-2 to 20-5-4 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Bearings are assumed to be: Joint 2 SP No.2 , Joint 11 SP No.2 .
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 8, 29 lb uplift at joint 2, 88 lb uplift at joint 10 and 153 lb uplift at joint 11.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	A04	Piggyback Base	2	1	T35559965
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:36 Page: 1
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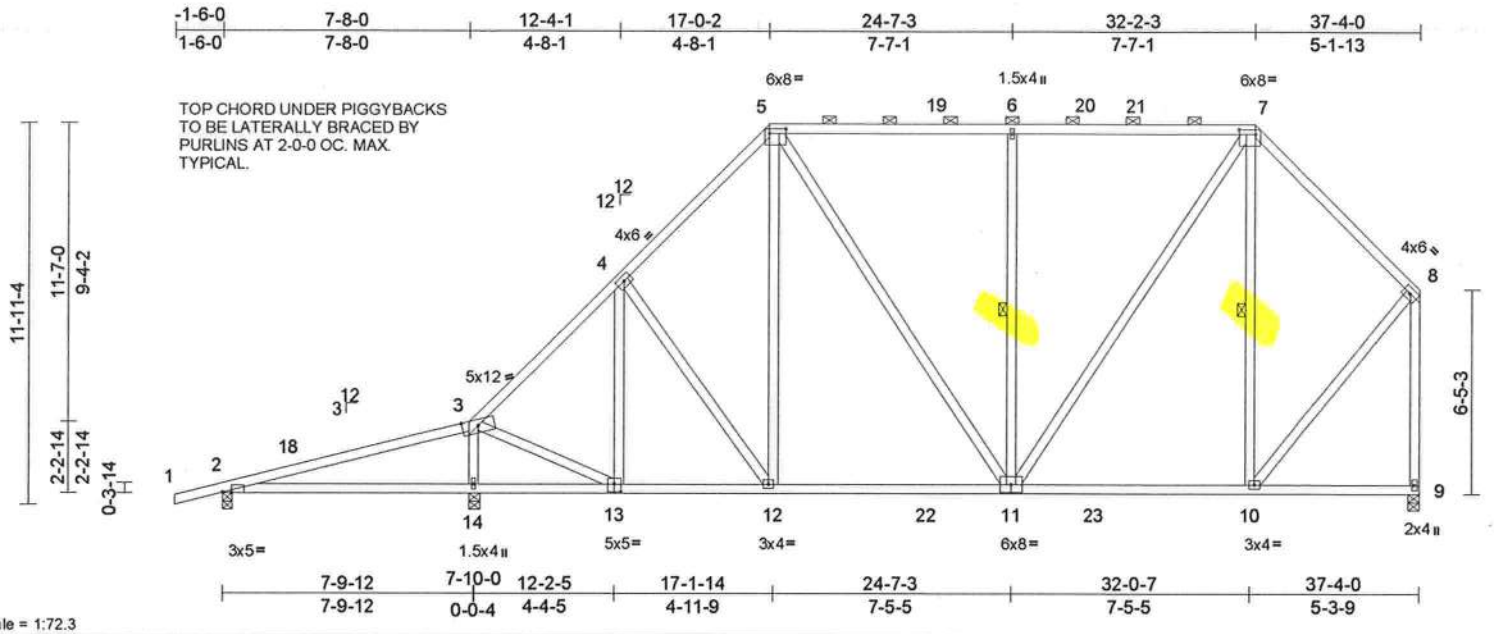

Scale = 1:72.3

Plate Offsets (X, Y): [2:0-3-4,Edge], [5:0-6-4,0-1-12], [7:0-6-4,0-1-12], [13:0-2-8,0-3-0]

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	1.00	Vert(LL)	-0.13	14-17	>725	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.25	14-17	>369	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 263 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-3-6 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-10 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-11, 7-10

REACTIONS (size) 2=0-3-8, 9=0-4-0, 14=0-4-0
Max Horiz 2=295 (LC 11)
Max Uplift 2=-37 (LC 8)
Max Grav 2=359 (LC 23), 9=1331 (LC 17), 14=1802 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-200/208, 3-4=-1136/116, 4-5=-1165/203, 5-6=-917/188, 6-7=-917/188, 7-8=-872/172, 8-9=-1268/94
BOT CHORD 2-14=-149/168, 12-14=-250/848, 10-12=-115/845, 9-10=-85/95
WEBS 3-14=-1494/122, 4-12=-58/113, 5-12=-13/304, 5-11=-20/305, 6-11=-529/135, 7-11=-41/719, 7-10=-396/129, 8-10=-49/845, 4-13=-339/81, 3-13=-87/1039

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 2-2-13, Zone1 2-2-13 to 17-0-2, Zone2 17-0-2 to 22-3-8, Zone1 22-3-8 to 37-2-4 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) All bearings are assumed to be SP No.2 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 2.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,202

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	A05	Piggyback Base	4	1	T35559966
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:36 Page: 1
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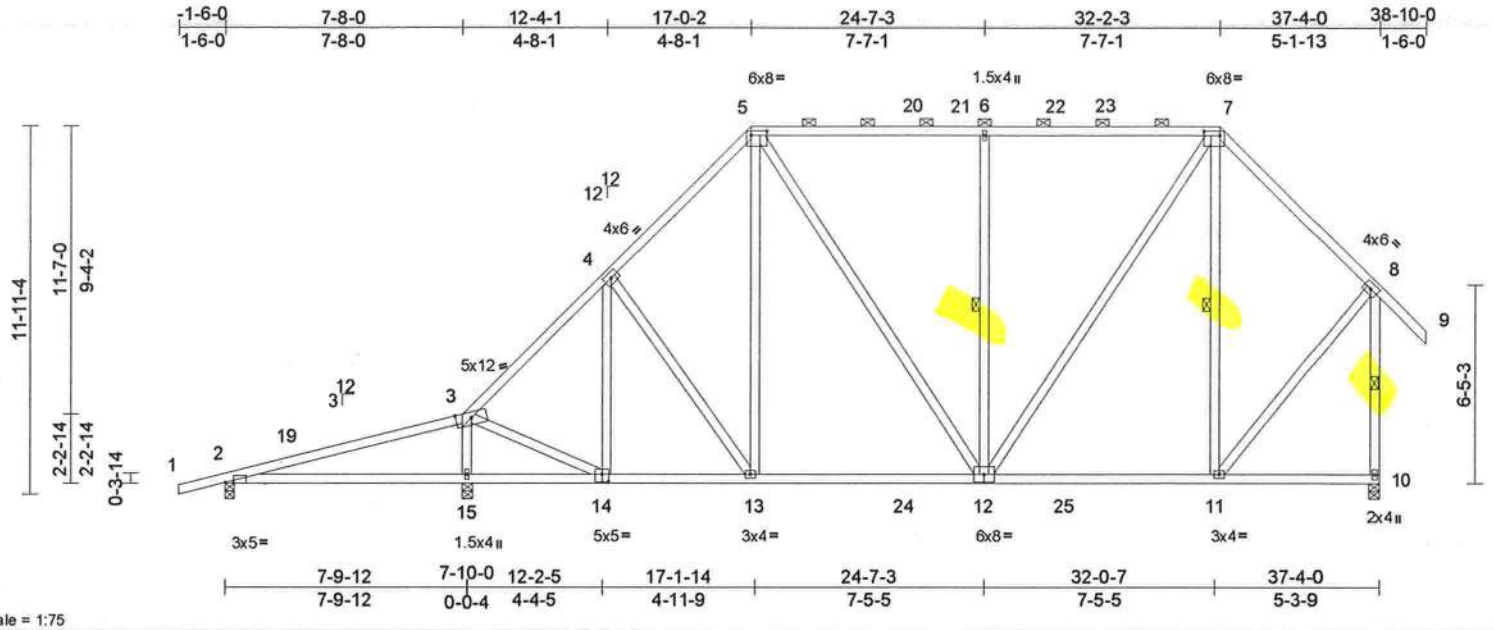

Scale = 1:75

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

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	0.77	Vert(LL)	-0.13	15-18	>725	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.25	15-18	>369	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 266 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-3-9 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-12 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-12, 7-11, 8-10

REACTIONS (size) 2=0-3-8, 10=0-4-0, 15=0-4-0
Max Horiz 2=309 (LC 11)
Max Uplift 2=-44 (LC 12), 10=-33 (LC 12)
Max Grav 2=359 (LC 23), 10=1419 (LC 18), 15=1801 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-202/218, 3-4=-1137/129, 4-5=-1158/213, 5-6=-916/198, 6-7=-916/198, 7-8=-881/196, 8-9=0/70, 8-10=-1362/130
BOT CHORD 2-15=-155/172, 13-15=-256/858, 11-13=-64/856, 10-11=-81/94
WEBS 3-15=-1492/122, 4-13=-56/119, 5-13=-18/303, 5-12=-23/304, 6-12=-530/137, 7-12=-36/725, 7-11=-392/86, 8-11=0/856, 4-14=-341/73, 3-14=-67/1043

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 2-2-13, Zone1 2-2-13 to 17-0-2, Zone2 17-0-2 to 22-3-8, Zone1 22-3-8 to 38-10-0 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) All bearings are assumed to be SP No.2 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 2 and 33 lb uplift at joint 10.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,202

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	A06	Piggyback Base Structural Gable	1	1	Job Reference (optional) T35559967

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Fri Nov 15 07:53:06 Page: 1
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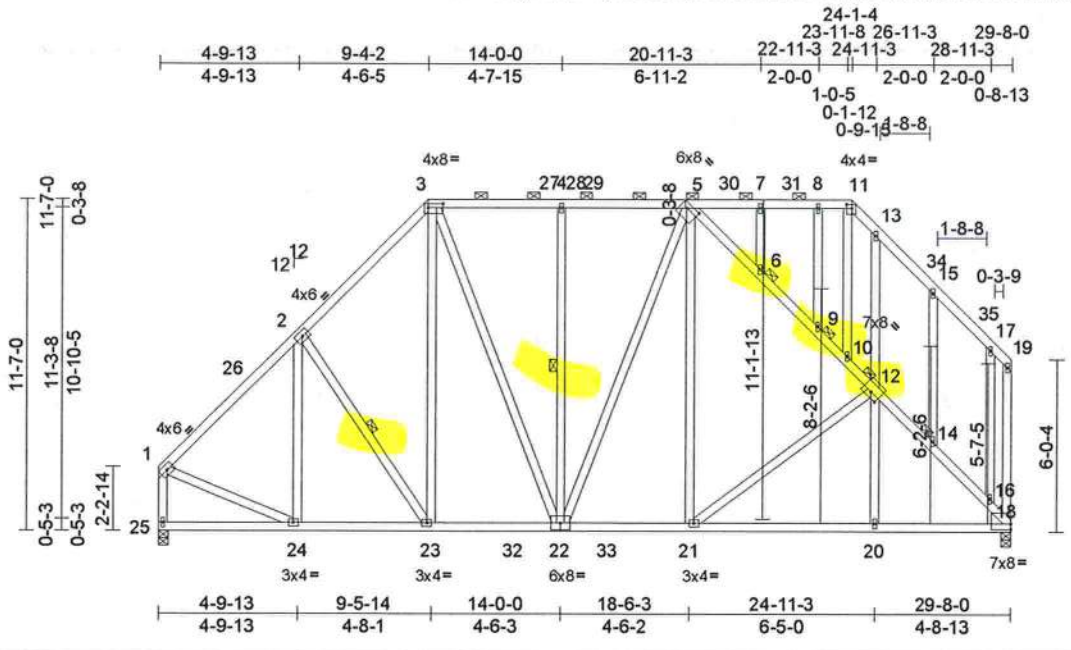

Scale = 1:80.6

Plate Offsets (X, Y): [3:0-6-4,0-1-12], [5:0-5-0,0-2-0], [11:0-2-4,0-1-12], [12:0-4-0,0-2-0], [18:Edge,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	0.38	Vert(LL)	-0.07	20-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.14	20-21	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.04	18	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 305 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-1-5 oc purlins, except end verticals, and 2-0-0 oc purlins (5-11-4 max.): 3-11, 5-18.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-23, 4-22
JOINTS 1 Brace at Jt(s): 6, 9, 12, 14

REACTIONS (lb/size) 18=1175/0-4-0, 25=1175/0-4-0
Max Horiz 25=288 (LC 11)
Max Uplift 18=-1 (LC 12)
Max Grav 18=1311 (LC 17), 25=1336 (LC 17)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-26=-1228/29, 2-26=-1083/52, 2-3=-1199/137, 3-27=-899/131, 4-27=-899/131, 4-28=-899/131, 28-29=-899/131, 5-29=-899/131, 1-25=-1260/36, 5-6=-1236/0, 6-9=-1229/4, 9-10=-1288/16, 10-12=-1264/13, 12-14=-1578/0, 14-16=-1609/0, 16-18=-1700/101
BOT CHORD 24-25=-270/251, 23-24=-151/949, 23-32=-85/864, 22-32=-85/864, 22-33=-64/898, 21-33=-64/898, 20-21=-56/1145, 18-20=-56/1145
WEBS 3-23=-40/321, 1-24=0/843, 5-21=0/433, 4-22=-274/63, 3-22=-35/372, 12-21=-325/0

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C 29-6-4 to 29-6-4 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) 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, with BCDL = 10.0psf.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 18.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,202

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	B01	Piggyback Base	1	1	T35559968
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:37 Page: 1
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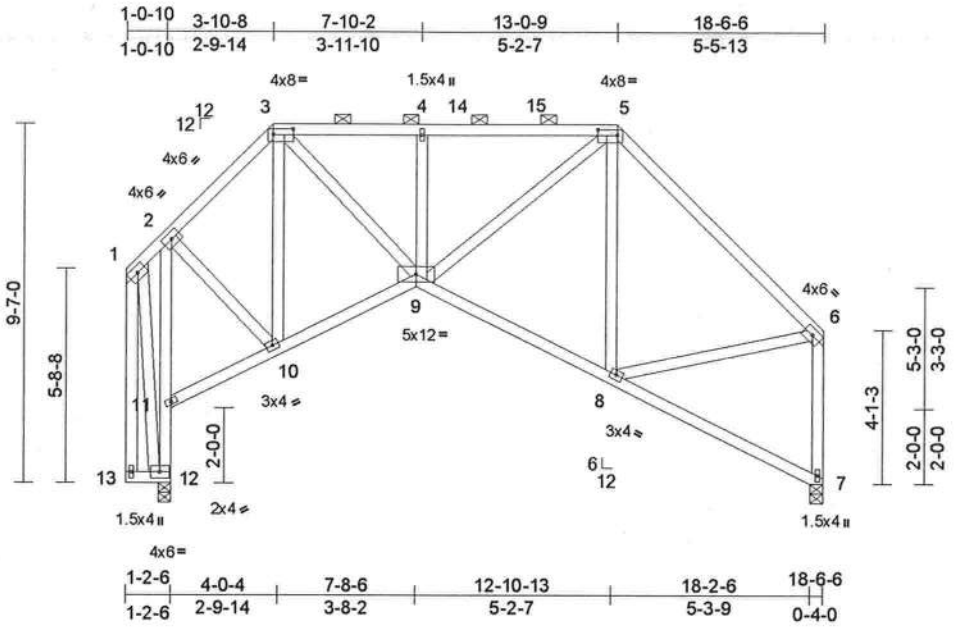

Scale = 1:61.5

Plate Offsets (X, Y): [3:0-6-4,0-1-12], [5:0-6-4,0-1-12]

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	0.40	Vert(LL)	-0.03	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.06	8-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.15	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 150 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 7=0-4-0, 12=0-4-0
Max Horiz 12=-237 (LC 10)
Max Uplift 12=-16 (LC 12)
Max Grav 7=698 (LC 1), 12=758 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-233/210, 2-3=-540/171, 3-4=-792/171, 4-5=-800/173, 5-6=-698/76, 6-7=-661/67, 1-13=-263/213
BOT CHORD 12-13=-79/89, 11-12=-853/301, 2-11=-673/124, 10-11=-311/331, 9-10=-152/477, 8-9=-83/485, 7-8=-63/108
WEBS 2-10=0/410, 3-10=-346/32, 3-9=-33/651, 4-9=-318/63, 5-9=-132/519, 5-8=-164/89, 6-8=-20/411, 1-12=-61/50

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 5-7-6 to 9-4-2, Zone2 9-4-2 to 13-3-12, Zone1 13-3-12 to 23-10-4 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be SP No.2 .
8) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 12.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply		
0724-027ORIGINAL	B02	Piggyback Base	1	1	Job Reference (optional)	T35559969

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:37 Page: 1
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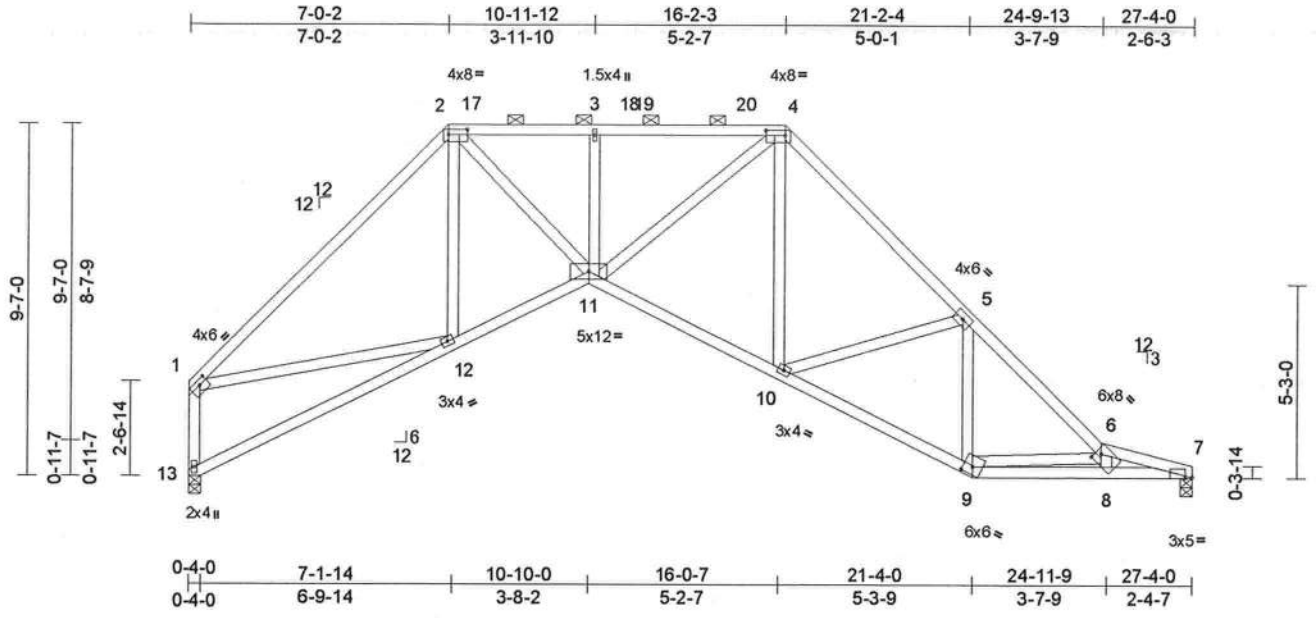


Scale = 1:62.9

Plate Offsets (X, Y): [1:0-2-12,0-1-8], [2:0-6-4,0-1-12], [4:0-6-4,0-1-12], [6:0-1-12,0-3-0], [7:0-2-8,Edge], [9:0-3-0,0-2-7]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.76	Vert(LL)	-0.12	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.79	Vert(CT)	-0.25	10-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.16	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 169 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* 1-2:2x4 SP No.1
BOT CHORD 2x4 SP No.2 *Except* 9-7:2x4 SP No.1
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-10-15 max.): 2-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 7=0-4-0, 13=0-4-0
Max Horiz 13=-219 (LC 10)
Max Grav 7=1088 (LC 1), 13=1088 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1538/38, 2-3=-1773/48, 3-4=-1783/50, 4-5=-1655/121, 5-6=-1822/133, 6-7=-3526/243, 1-13=-1058/73
BOT CHORD 12-13=-205/316, 11-12=0/1133, 10-11=0/1231, 9-10=-33/1463, 8-9=-222/3443, 7-8=-214/3417
WEBS 2-12=-184/51, 2-11=0/1161, 3-11=-301/67, 4-11=0/895, 4-10=-34/352, 5-10=-269/141, 5-9=-95/39, 6-9=-2200/208, 6-8=-120/42, 1-12=0/914

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 4-9-12 to 11-8-2, Zone2 11-8-2 to 15-7-12, Zone1 15-7-12 to 32-0-0 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Bearings are assumed to be: Joint 13 SP No.2 , Joint 7 SP No.1 .
8) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

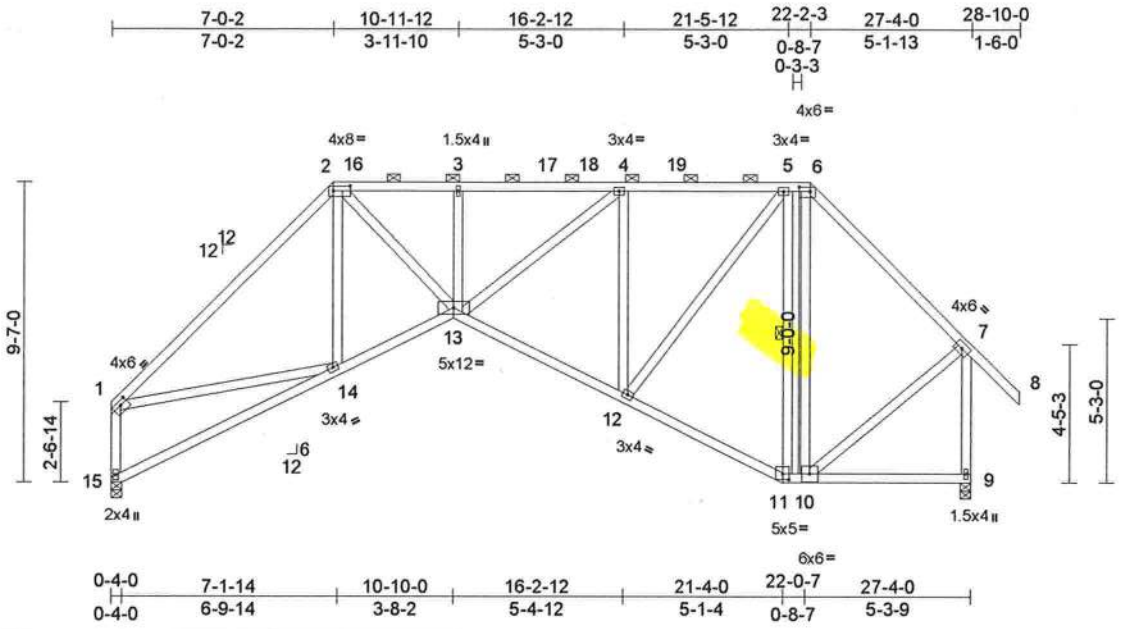
November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	B03	Piggyback Base	4	1	T35559970 Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:37 ID:5187UFeToG86s9pDNdkrDZyv97a-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:73.6

Plate Offsets (X, Y): [1:0-2-12,0-1-8], [2:0-6-4,0-1-12], [6:0-4-4,0-1-12], [11:0-2-8,0-2-4]

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	0.75	Vert(LL)	-0.09	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.19	14-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.14	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 205 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* 1-2:2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-1-11 max.): 2-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 9-10.
WEBS 1 Row at midpt 5-11

REACTIONS (size) 9=0-4-0, 15=0-4-0
Max Horiz 15=244 (LC 11)
Max Uplift 9=-33 (LC 12), 15=-4 (LC 12)
Max Grav 9=1183 (LC 1), 15=1079 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1523/56, 2-3=-1741/80, 3-4=-1750/81, 4-5=-1083/77, 5-6=-514/122, 6-7=-824/118, 7-8=0/70, 1-15=-1049/73, 7-9=-1169/63
BOT CHORD 14-15=-271/331, 13-14=-50/1156, 12-13=-7/1223, 11-12=-5/595, 10-11=0/509, 9-10=-41/63
WEBS 2-14=-180/36, 2-13=0/1128, 1-14=0/904, 3-13=-265/65, 6-10=-24/116, 5-11=-595/33, 7-10=0/654, 4-12=-890/73, 4-13=-12/875, 5-12=-2/950

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 0-9-12 to 7-8-2, Zone2 7-8-2 to 11-7-12, Zone1 11-7-12 to 29-6-0 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be SP No.2 .
8) Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 15 and 33 lb uplift at joint 9.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

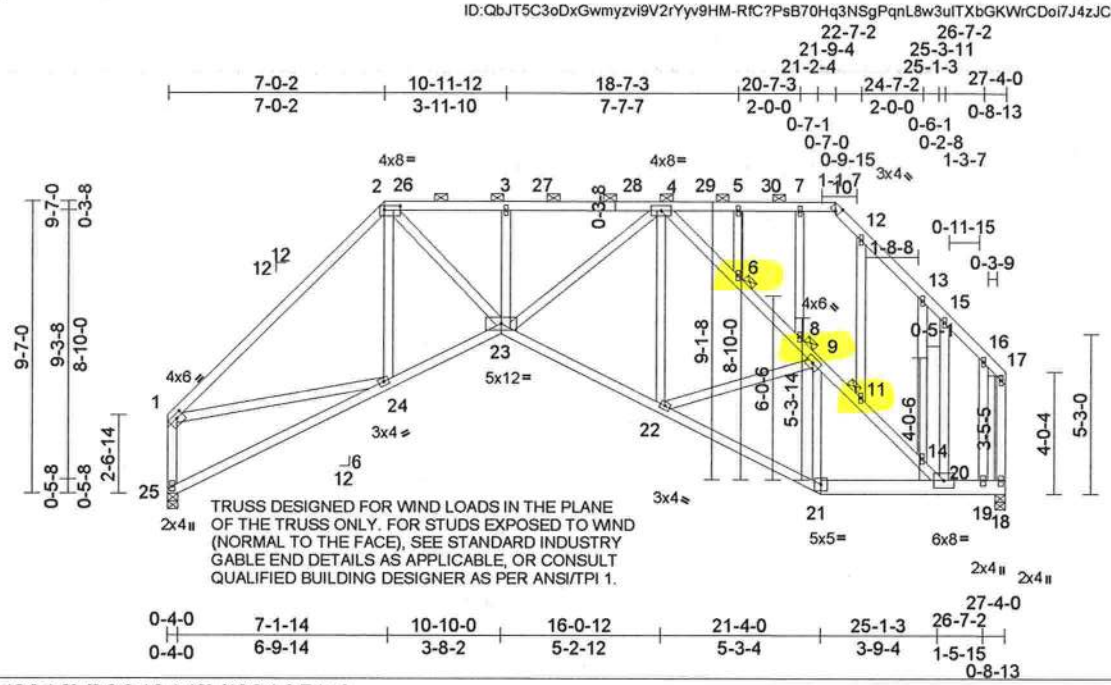
November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply		
0724-027ORIGINAL	B3A	Piggyback Base	1	1	Job Reference (optional)	T35559971

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:36 ID:QbJT5C3oDxGwmyzvi9V2rYyv9HM-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:75.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.77	Vert(LL)	-0.17	20-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.34	20-21	>968	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.14	18	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 231 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 1-2:2x4 SP No.1
BOT CHORD 2x4 SP No.2 *Except* 21-18:2x6 SP M 26
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-2-5 max.): 2-10, 4-20.
BOT CHORD Rigid ceiling directly applied or 9-3-2 oc bracing.
JOINTS 1 Brace at Jt(s): 6, 8, 11

REACTIONS (size) 18=0-4-0, 25=0-4-0
Max Horiz 25=-188 (LC 10)
Max Uplift 18=-5 (LC 12)
Max Grav 18=1082 (LC 1), 25=1082 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-1528/47, 2-3=-1754/65, 3-4=-1763/66, 4-5=-89/131, 5-7=-89/131, 7-10=-89/131, 1-25=-1052/72, 10-12=-78/131, 12-13=-68/137, 13-15=-59/79, 15-16=-72/42, 16-17=-106/10, 4-6=-1536/0, 6-8=-1520/0, 8-9=-1706/0, 9-11=-1685/0, 11-14=-1781/0, 14-20=-1770/0
BOT CHORD 24-25=-159/282, 23-24=-11/1107, 22-23=0/1218, 21-22=0/1458, 20-21=0/1273, 19-20=0/0, 18-19=0/0
WEBS 2-24=-182/49, 17-18=-154/7, 5-6=0/27, 7-8=-263/4, 11-12=-135/0, 13-14=-23/60, 16-19=-5/33, 1-24=0/907, 3-23=-282/63, 4-22=0/357, 4-23=0/858, 2-23=0/1142, 9-21=-184/49, 9-22=-233/0, 15-20=-34/44

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 4-9-12 to 11-8-2, Zone2 11-8-2 to 15-7-12, Zone1 15-7-12 to 31-10-4 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 1.5x4 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Bearings are assumed to be: Joint 25 SP No.2 , Joint 18 SP M 26 .
9) Bearing at joint(s) 25 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 18.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

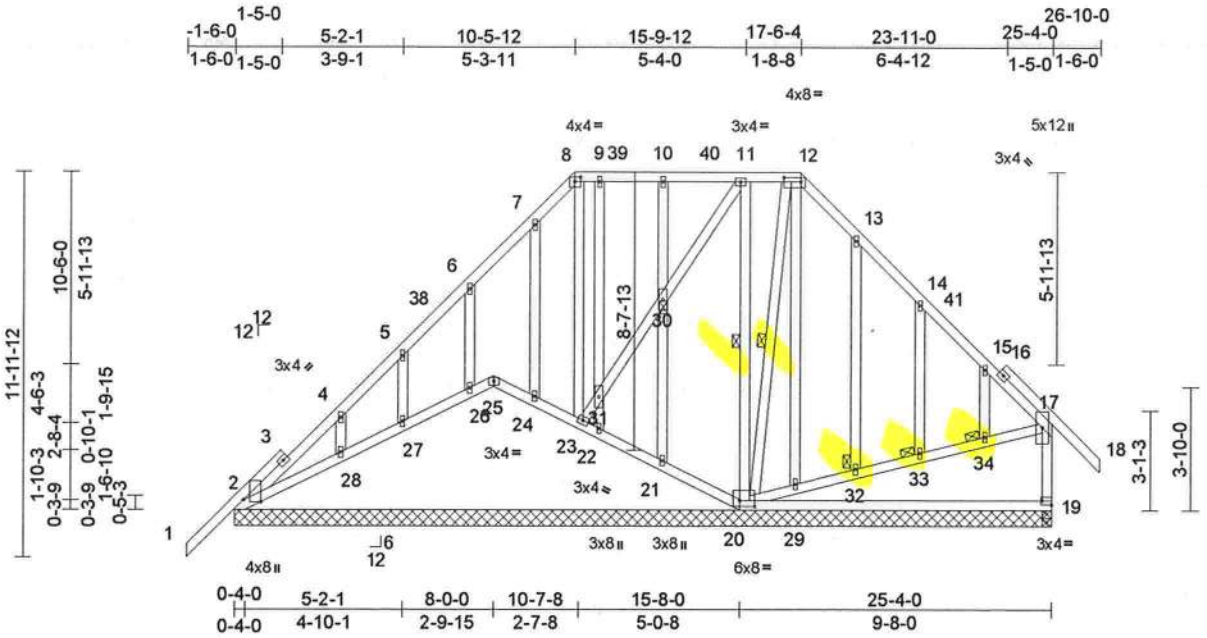
November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	C01	Piggyback Base Structural Gable	1	1	T35559972 Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:37 ID:d68jVZtNDOHUzKZuNxdF5lyv8bi-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:72

Plate Offsets (X, Y): [2:0-0-12,Edge], [8:0-2-4,0-1-12], [12:0-6-4,0-1-12], [19:Edge,0-1-8], [20:0-5-8,0-2-4]

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	0.42	Vert(LL)	-0.27	19-20	>418	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.54	19-20	>210	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.01	19	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 252 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 19-20.
WEBS	1 Row at midpt 11-20, 12-20
JOINTS	1 Brace at Jt(s): 30, 32, 33, 34

REACTIONS (size) 2=25-4-0, 19=25-4-0, 20=25-4-0, 21=25-4-0, 22=25-4-0, 23=25-4-0, 24=25-4-0, 25=25-4-0, 26=25-4-0, 27=25-4-0, 28=25-4-0, 35=25-4-0

Max Horiz 2=269 (LC 11), 35=269 (LC 11)

Max Uplift 2=-75 (LC 8), 19=-41 (LC 12), 20=-58 (LC 12), 21=-42 (LC 12), 23=-5 (LC 11), 24=-32 (LC 12), 25=-121 (LC 11), 26=-57 (LC 12), 27=-49 (LC 12), 28=-35 (LC 12), 35=-75 (LC 8)

Max Grav 2=283 (LC 18), 19=460 (LC 24), 20=557 (LC 18), 21=140 (LC 24), 22=152 (LC 23), 23=95 (LC 12), 24=149 (LC 17), 25=155 (LC 12), 26=190 (LC 17), 27=154 (LC 17), 28=239 (LC 17), 35=283 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/64, 2-4=-155/192, 4-5=-140/144, 5-6=-109/128, 6-7=-90/123, 7-8=-91/168, 8-9=-65/132, 9-10=-65/132, 10-11=-65/132, 11-12=-64/124, 12-13=-99/146, 13-14=-97/102, 14-15=-109/47, 15-17=-201/43, 17-18=0/62, 17-19=-362/105

BOT CHORD 2-28=-150/186, 27-28=-157/183, 26-27=-156/184, 25-26=-153/178, 24-25=-154/180, 23-24=-151/183, 22-23=-147/181, 21-22=-136/194, 20-21=-164/181, 19-20=-25/103

WEBS 8-23=-84/21, 23-31=-36/12, 30-31=-42/13, 11-30=-40/13, 11-20=-87/34, 12-20=-397/114, 12-29=-127/230, 20-29=-116/109, 29-32=-157/142, 32-33=-145/133, 33-34=-129/120, 17-34=-132/123, 10-30=-151/39, 21-30=-149/38, 9-31=-85/3, 22-31=-92/5, 7-24=-116/57, 6-26=-150/82, 4-28=-165/63, 13-32=-71/41, 14-33=-104/54, 15-34=-16/19, 5-27=-127/72

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 10-5-12, Zone2 10-5-12 to 14-8-11, Zone1 14-8-11 to 17-6-4, Zone2 17-6-4 to 21-9-3, Zone1 21-9-3 to 26-10-0 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
10) All bearings are assumed to be SP No.2 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 2, 121 lb uplift at joint 25, 58 lb uplift at joint 20, 41 lb uplift at joint 19, 5 lb uplift at joint 23, 42 lb uplift at joint 21, 32 lb uplift at joint 24, 57 lb uplift at joint 26, 35 lb uplift at joint 28, 49 lb uplift at joint 27, and 75 lb uplift at joint 2.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,202

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	C02	Piggyback Base	1	1	T35559973
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:37 Page: 1
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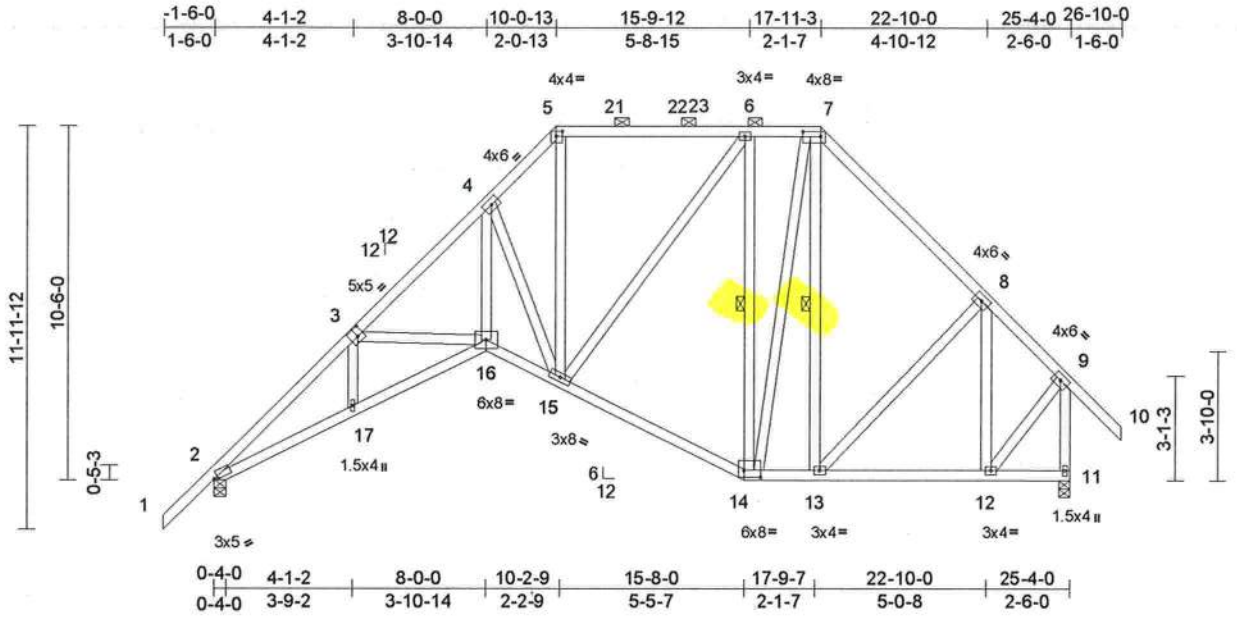

Scale = 1:68.6

Plate Offsets (X, Y): [2:0-1-5,0-0-9], [3:0-2-4,0-3-0], [5:0-2-4,0-1-12], [7:0-6-4,0-1-12], [14:0-6-0,0-2-8]

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	0.41	Vert(LL)	-0.10	16-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.20	16-17	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.18	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 214 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-7-14 oc purlins, except end verticals, and 2-0-0 oc purlins (5-7-12 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 11-12.
WEBS 1 Row at midpt 6-14, 7-13

REACTIONS (size) 2=0-4-0, 11=0-4-0
Max Horiz 2=273 (LC 11)
Max Uplift 2=-41 (LC 12), 11=-34 (LC 12)
Max Grav 2=1097 (LC 1), 11=1107 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/64, 2-4=-2194/19, 4-5=-1197/86, 5-6=-824/74, 6-7=-594/125, 7-8=-840/119, 8-9=-628/83, 9-10=0/70, 9-11=-1095/44
BOT CHORD 2-17=-99/1802, 16-17=-71/1825, 15-16=-14/1552, 14-15=0/693, 13-14=0/517, 12-13=0/420, 11-12=-41/53
WEBS 5-15=-20/598, 6-15=-15/477, 6-14=-633/70, 7-14=-45/438, 7-13=-40/98, 8-13=-30/171, 8-12=-444/24, 9-12=0/682, 4-16=-9/1565, 4-15=-1366/59, 3-17=0/122, 3-16=-226/93

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 -1-6-0 to 10-0-13, Zone2 10-0-13 to 14-3-11, Zone1 14-3-11 to 26-10-0 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be SP No.2 .
8) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 2 and 34 lb uplift at joint 11.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,202

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	C03	Piggyback Base	6	1	T35559974 Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:37 Page: 1
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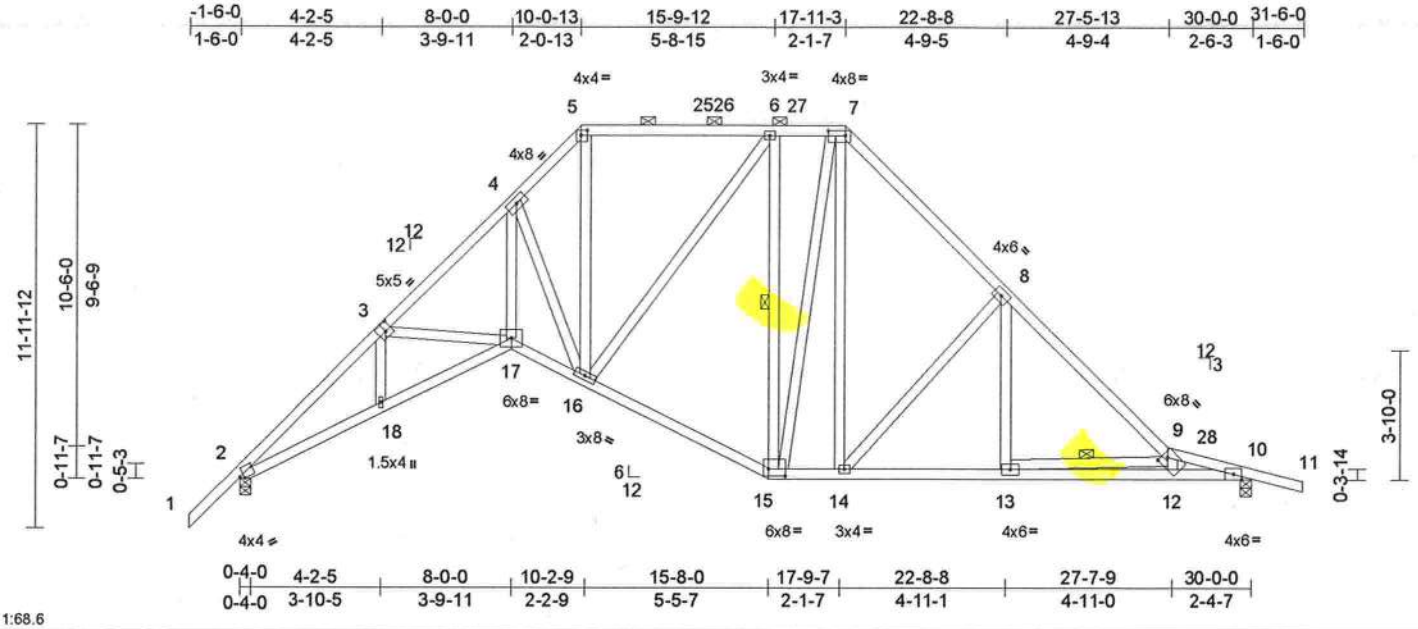

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Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-2-4,0-3-0], [5:0-2-4,0-1-12], [7:0-6-4,0-1-12], [9:0-1-12,0-3-0], [15:0-6-0,0-2-8]

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	0.45	Vert(LL)	-0.17	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.90	Vert(CT)	-0.35	12-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.26	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 227 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 15-10:2x4 SP No.1
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-9-10 oc purlins, except 2-0-0 oc purlins (4-11-1 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-15, 9-13

REACTIONS (size) 2=0-4-0, 10=0-4-0
Max Horiz 2=-234 (LC 10)
Max Uplift 2=-36 (LC 12), 10=-34 (LC 12)
Max Grav 2=1290 (LC 1), 10=1290 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 5-6=-1089/124, 6-7=-891/172, 7-8=-1313/180, 8-9=-1835/102, 9-10=-3832/94, 10-11=0/22, 1-2=0/64, 2-4=-2672/59, 4-5=-1565/149
BOT CHORD 2-18=-49/2110, 17-18=0/2140, 16-17=0/1893, 15-16=0/1016, 14-15=0/845, 13-14=0/1269, 12-13=-91/3750, 10-12=-76/3715
WEBS 5-16=-37/856, 6-16=0/424, 6-15=-605/33, 7-15=-41/317, 7-14=-44/520, 8-14=-652/117, 9-12=-159/74, 4-17=0/1862, 4-16=-1594/8, 8-13=0/531, 9-13=-2503/116, 3-17=-201/103, 3-18=-5/109

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 -1-6-0 to 10-0-13, Zone2 10-0-13 to 14-3-11, Zone1 14-3-11 to 31-6-0 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Bearings are assumed to be: Joint 2 SP No.2 , Joint 10 SP No.1 .
8) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 2 and 34 lb uplift at joint 10.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

JULIUS LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	C04	Piggyback Base	1	1	T35559975
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:38 Page: 1
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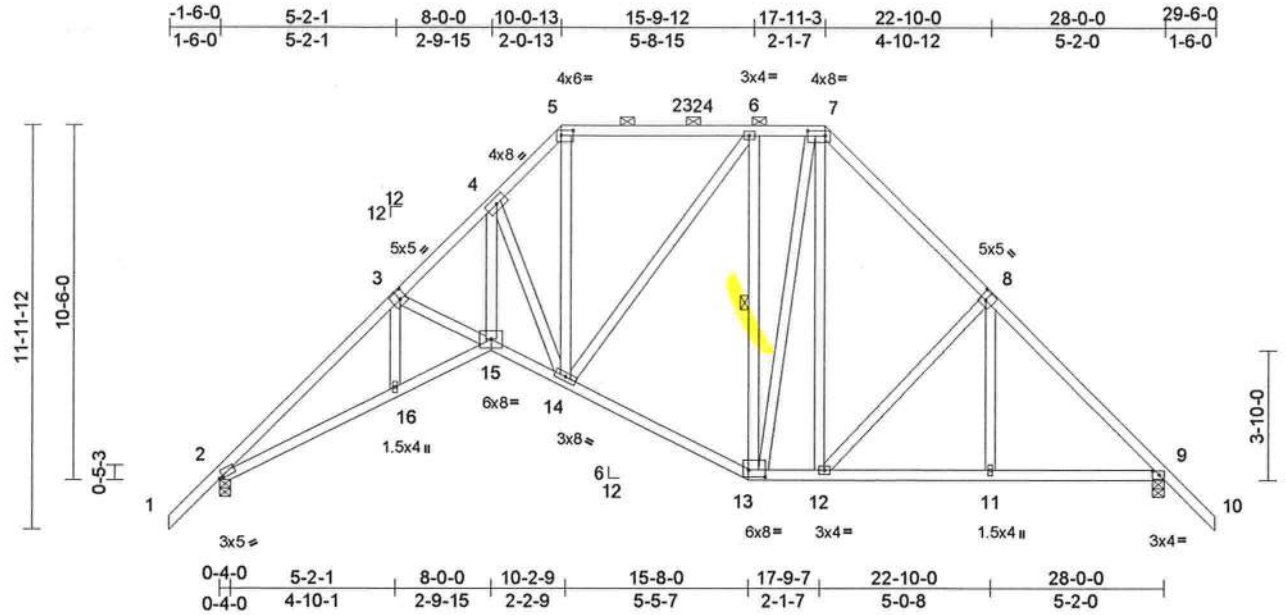

Scale = 1:68.6

Plate Offsets (X, Y): [2:0-1-5,0-0-5], [3:0-2-4,0-3-0], [5:0-4-4,0-1-12], [7:0-6-4,0-1-12], [8:0-2-4,0-3-0], [9:0-2-6,0-1-8], [13:0-6-0,0-2-8]

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	0.40	Vert(LL)	-0.11	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.23	15-16	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.21	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 214 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (5-3-4 max.): 5-7.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-13

REACTIONS (size) 2=0-4-0, 9=0-4-0
Max Horiz 2=248 (LC 11)
Max Uplift 2=-35 (LC 12), 9=-35 (LC 12)
Max Grav 2=1210 (LC 1), 9=1210 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/64, 2-4=-2462/0, 4-5=-1391/34, 5-6=-984/46, 6-7=-767/116, 7-9=-1397/109, 9-10=0/64
BOT CHORD 2-16=-61/1980, 15-16=0/1985, 14-15=0/1745, 13-14=0/876, 12-13=0/710, 11-12=0/918, 9-11=0/919
WEBS 5-14=0/702, 6-14=0/460, 6-13=-605/30, 7-13=-40/354, 7-12=-24/319, 8-12=-352/91, 8-11=0/218, 3-15=-223/90, 4-15=0/1774, 4-14=-1449/0, 3-16=0/144

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 -1-6-0 to 10-0-13, Zone2 10-0-13 to 14-3-11, Zone1 14-3-11 to 29-6-0 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be SP No.2 .
8) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 2 and 35 lb uplift at joint 9.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,202

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	C05	Piggyback Base	1	1	T35559976
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:38 Page: 1
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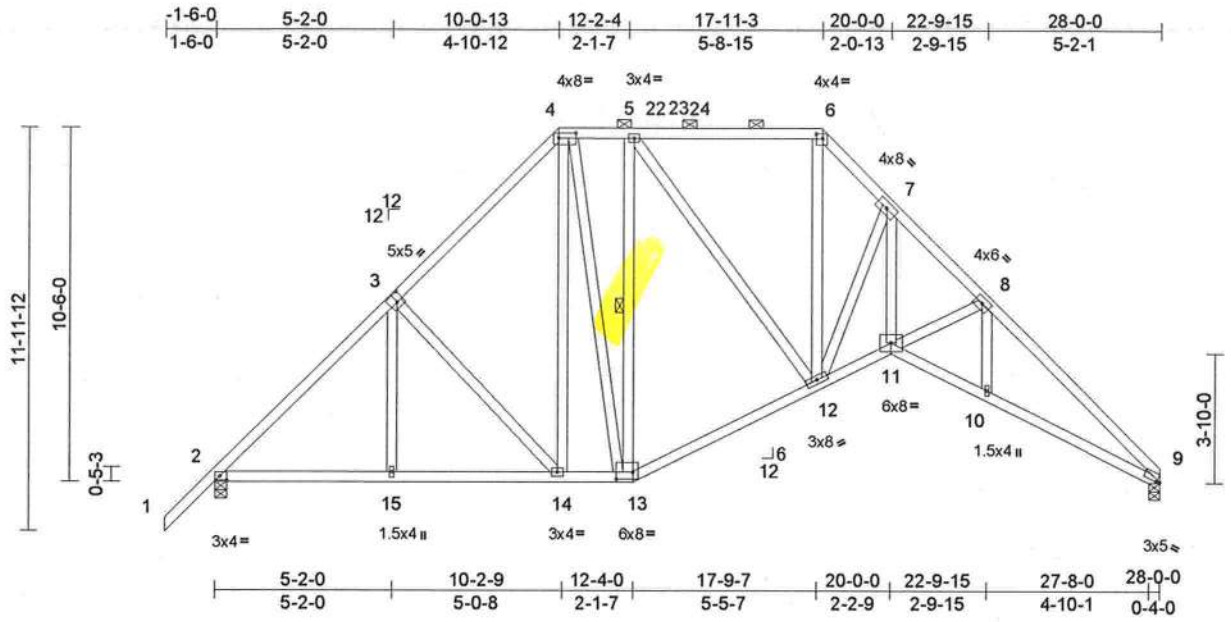

Scale = 1:68.6

Plate Offsets (X, Y): [2:0-2-6,0-1-8], [3:0-2-4,0-3-0], [4:0-6-4,0-1-12], [6:0-2-4,0-1-12], [9:0-1-5,0-0-5], [13:0-6-0,0-2-8]

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	0.42	Vert(LL)	-0.11	11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.23	10-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.21	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 211 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-10 oc purlins, except 2-0-0 oc purlins (5-2-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-13

REACTIONS (size) 2=0-4-0, 9=0-4-0
Max Horiz 2=235 (LC 11)
Max Uplift 2=-38 (LC 12)
Max Grav 2=1212 (LC 1), 9=1118 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/64, 2-4=-1401/112, 4-5=-771/119, 5-6=-986/71, 6-7=-1397/71, 7-8=-2193/0, 8-9=-2495/0
BOT CHORD 2-15=-27/969, 14-15=0/968, 13-14=0/728, 12-13=0/881, 11-12=0/1668, 10-11=0/1885, 9-10=-9/1877
WEBS 3-15=0/219, 3-14=-356/92, 4-14=-23/325, 4-13=-43/361, 5-13=-619/0, 5-12=0/392, 6-12=0/729, 7-12=-1375/0, 7-11=0/1688, 8-11=-252/102, 8-10=0/141

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 -1-6-0 to 10-0-13, Zone2 10-0-13 to 14-3-11, Zone1 14-3-11 to 28-0-0 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be SP No.2 .
8) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 2.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	C06	Piggyback Base	17	1	T35559977
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:38 Page: 1
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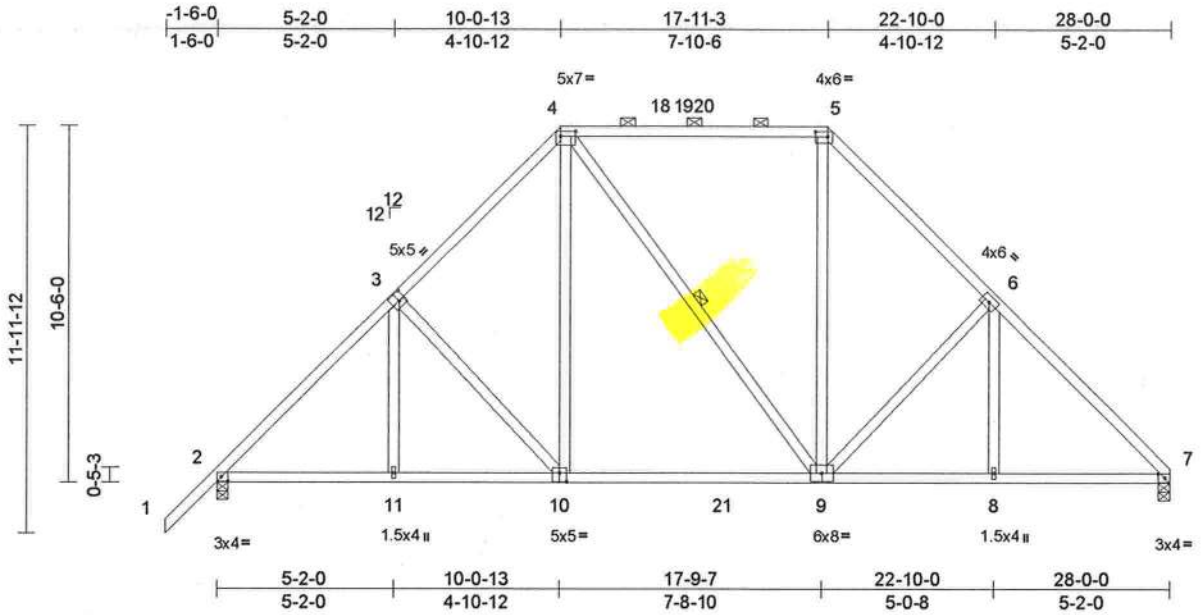

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Plate Offsets (X, Y): [2:0-2-6,0-1-8], [3:0-2-4,0-3-0], [4:0-5-4,0-1-12], [5:0-4-4,0-1-12], [7:0-2-6,0-1-8], [10:0-2-8,0-3-4]

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	0.78	Vert(LL)	-0.16	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.26	9-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 183 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* 4-5:2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-6-0 oc purlins, except 2-0-0 oc purlins (4-7-5 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-9

REACTIONS (size) 2=0-4-0, 7=0-4-0
Max Horiz 2=235 (LC 11)
Max Uplift 2=-38 (LC 12)
Max Grav 2=1358 (LC 17), 7=1262 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/64, 2-4=-1545/108, 4-5=-856/117, 5-6=-1264/110, 6-7=-1549/37
BOT CHORD 2-11=-29/1173, 8-11=0/1172, 7-8=-22/1037
WEBS 3-11=0/181, 3-10=-367/97, 4-10=0/570, 4-9=-97/103, 5-9=0/515, 6-9=-387/110, 6-8=0/188

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 -1-6-0 to 10-0-13, Zone2 10-0-13 to 14-3-11, Zone1 14-3-11 to 28-0-0 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) All bearings are assumed to be SP No.2 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 2.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,202

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply		
0724-027ORIGINAL	C07	Piggyback Base	3	1	Job Reference (optional)	T35559978

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:38 Page: 1
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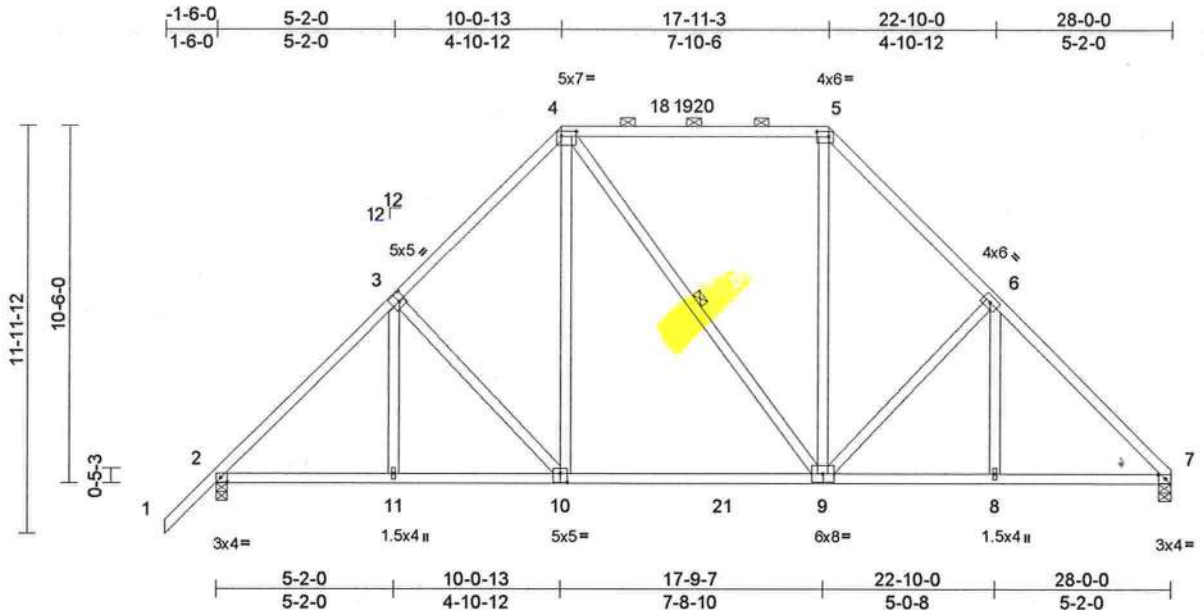

Scale = 1:68

Plate Offsets (X, Y): [2:0-2-6,0-1-8], [3:0-2-4,0-3-0], [4:0-5-4,0-1-12], [5:0-4-4,0-1-12], [7:0-2-6,0-1-8], [10:0-2-8,0-3-4]

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	0.78	Vert(LL)	-0.16	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.26	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 183 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* 4-5:2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-6-0 oc purlins, except 2-0-0 oc purlins (4-7-5 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-9

REACTIONS (size) 2=0-4-0, 7=0-4-0
Max Horiz 2=235 (LC 11)
Max Uplift 2=-38 (LC 12)
Max Grav 2=1358 (LC 17), 7=1262 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/64, 2-4=-1545/108, 4-5=-856/117, 5-6=-1264/110, 6-7=-1549/37
BOT CHORD 2-11=-29/1173, 8-11=0/1172, 7-8=-22/1037
WEBS 3-11=0/181, 3-10=-367/97, 4-10=0/570, 4-9=-97/103, 5-9=0/515, 6-9=-387/110, 6-8=0/188

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 -1-6-0 to 10-0-13, Zone2 10-0-13 to 14-3-11, Zone1 14-3-11 to 28-0-0 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) All bearings are assumed to be SP No.2 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 2.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,202

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	C08	Piggyback Base	1	1	T35559979
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:38 Page: 1
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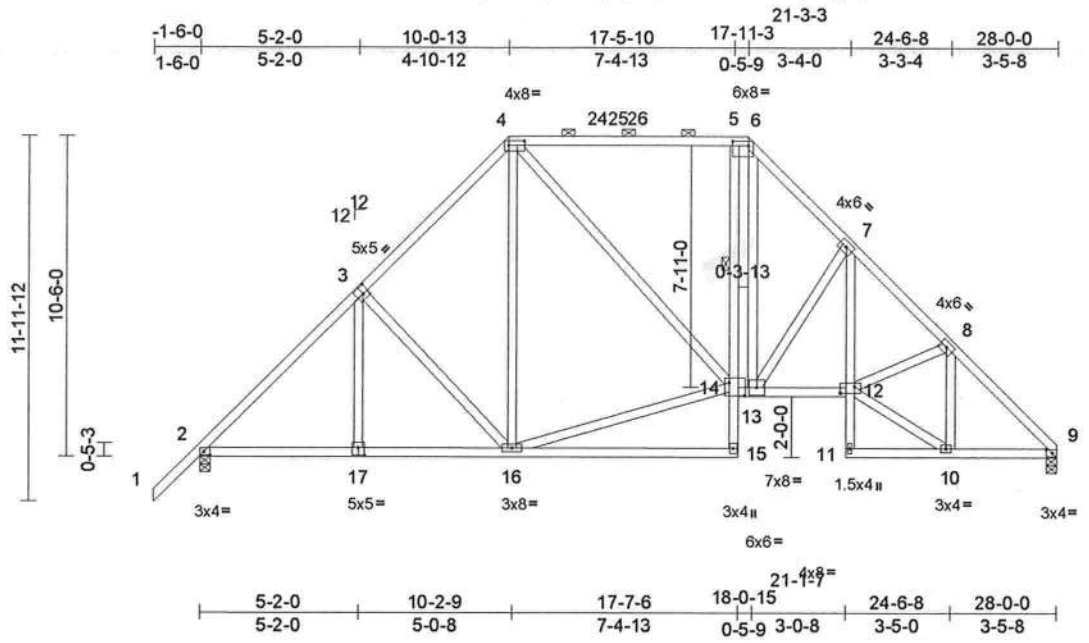


Scale = 1:75.7

Plate Offsets (X, Y): [2:0-2-6,0-1-8], [3:0-2-4,0-3-0], [4:0-6-4,0-1-12], [6:0-6-4,0-1-12], [9:0-2-6,0-1-8], [12:0-5-8,0-2-8], [14:0-6-4,0-5-0], [17:0-2-8,0-3-0]

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	0.81	Vert(LL)	-0.09	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.21	15-16	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.08	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 218 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-4-1 oc purlins, except 2-0-0 oc purlins (3-7-9 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
1 Row at midpt 5-14

REACTIONS (size) 2=0-4-0, 9=0-4-0
Max Horiz 2=235 (LC 11)
Max Uplift 2=-38 (LC 12)
Max Grav 2=1212 (LC 1), 9=1118 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/64, 2-4=-1396/107, 4-5=-924/92, 5-6=-905/90, 6-7=-1359/89, 7-8=-1777/27, 8-9=-1441/21
BOT CHORD 2-16=-29/963, 15-16=0/92, 14-15=0/134, 5-14=-305/93, 13-14=0/781, 12-13=0/1202, 11-12=0/62, 7-12=0/539, 10-11=0/33, 9-10=-7/973
WEBS 3-17=0/184, 3-16=-332/97, 4-16=-20/288, 14-16=0/681, 4-14=0/352, 6-13=-66/788, 7-13=-525/67, 8-10=-538/11, 10-12=0/1115, 8-12=0/264

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 -1-6-0 to 10-0-13, Zone2 10-0-13 to 14-3-11, Zone1 14-3-11 to 28-0-0 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be SP No.2 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 2.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

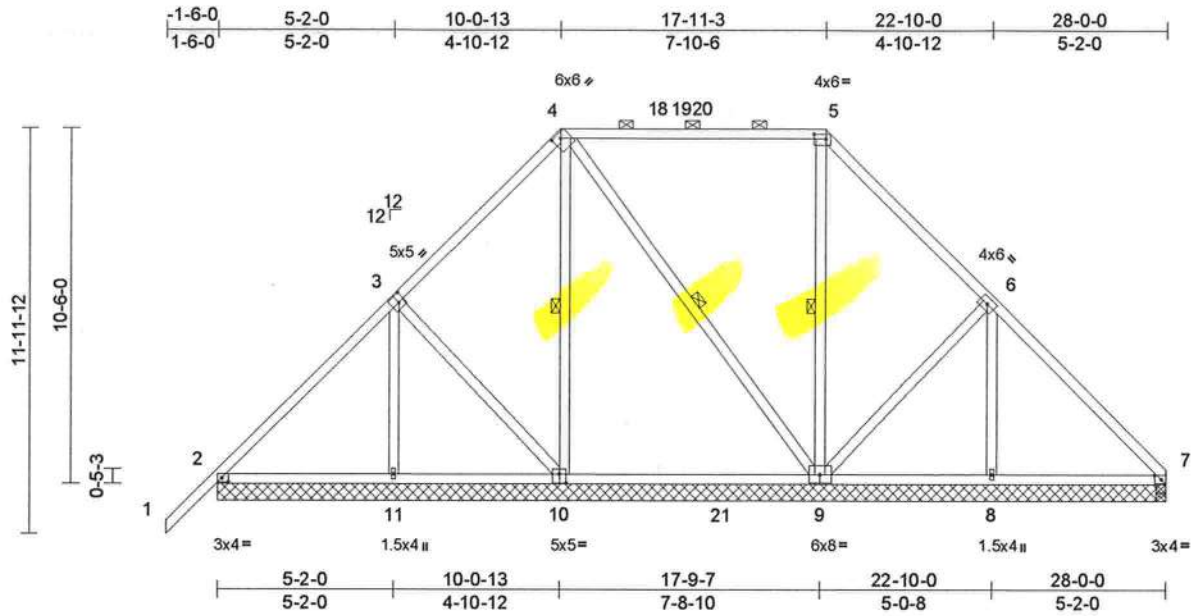
November 15,202

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	C09	Piggyback Base	1	1	T35559980
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:38 Page: 1
ID:qCv7zn_QEq3TV2YHBDxVOByuwym-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:68.3

Plate Offsets (X, Y): [2:0-2-6,0-1-8], [3:0-2-4,0-3-0], [4:0-2-12,0-1-12], [5:0-4-4,0-1-12], [7:0-2-6,0-1-8], [10:0-2-8,0-3-4]

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	0.89	Vert(LL)	-0.14	9-10	>685	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.21	9-10	>444	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	15	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 183 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (5-3-4 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-10, 4-9, 5-9

REACTIONS (size) 2=28-0-0, 7=28-0-0, 8=28-0-0, 9=28-0-0, 10=28-0-0, 11=28-0-0, 12=28-0-0, 15=28-0-0
Max Horiz 2=235 (LC 11), 12=235 (LC 11)
Max Uplift 2=-40 (LC 12), 9=-31 (LC 12), 12=-40 (LC 12)
Max Grav 2=421 (LC 18), 7=316 (LC 18), 8=347 (LC 18), 9=684 (LC 18), 10=589 (LC 17), 11=386 (LC 17), 12=421 (LC 18), 15=316 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/64, 2-4=-305/111, 4-5=-97/107, 5-6=-186/96, 6-7=-262/31
BOT CHORD 2-11=-75/217, 8-11=-75/218, 7-8=-20/125
WEBS 3-11=-221/49, 3-10=-113/98, 4-10=-231/13, 4-9=-89/25, 5-9=-334/18, 6-9=-157/118, 6-8=-183/29

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 -1-6-0 to 10-0-13, Zone2 10-0-13 to 14-3-11, Zone1 14-3-11 to 28-0-0 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) All bearings are assumed to be SP No.2 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 2, 31 lb uplift at joint 9 and 40 lb uplift at joint 2.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	C10	Piggyback Base	2	1	T35559981
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:39 Page: 1
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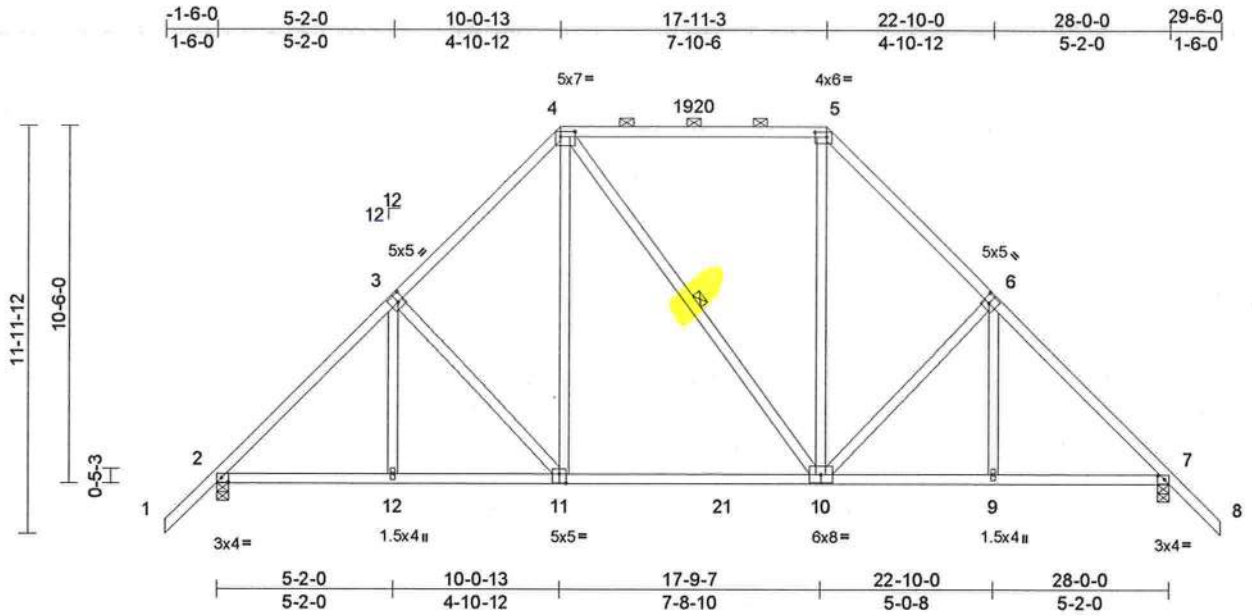


Scale = 1:68

Plate Offsets (X, Y): [2:0-2-6,0-1-8], [3:0-2-4,0-3-0], [4:0-5-4,0-1-12], [5:0-4-4,0-1-12], [6:0-2-4,0-3-0], [7:0-2-6,0-1-8], [11:0-2-8,0-3-4]

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	0.78	Vert(LL)	-0.16	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.26	10-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 186 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* 4-5:2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-6-7 oc purlins, except 2-0-0 oc purlins (4-7-10 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-10

REACTIONS (size) 2=0-4-0, 7=0-4-0
Max Horiz 2=248 (LC 11)
Max Uplift 2=-35 (LC 12), 7=-35 (LC 12)
Max Grav 2=1357 (LC 17), 7=1349 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/64, 2-4=-1543/105, 4-5=-852/113, 5-7=-1534/104, 7-8=0/64
BOT CHORD 2-12=-13/1186, 9-12=0/1185, 7-9=0/1043
WEBS 3-12=0/181, 3-11=-368/97, 4-11=0/570, 4-10=-97/102, 5-10=0/513, 6-10=-372/97, 6-9=0/184

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 -1-6-0 to 10-0-13, Zone2 10-0-13 to 14-3-11, Zone1 14-3-11 to 29-6-0 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) All bearings are assumed to be SP No.2 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 2 and 35 lb uplift at joint 7.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

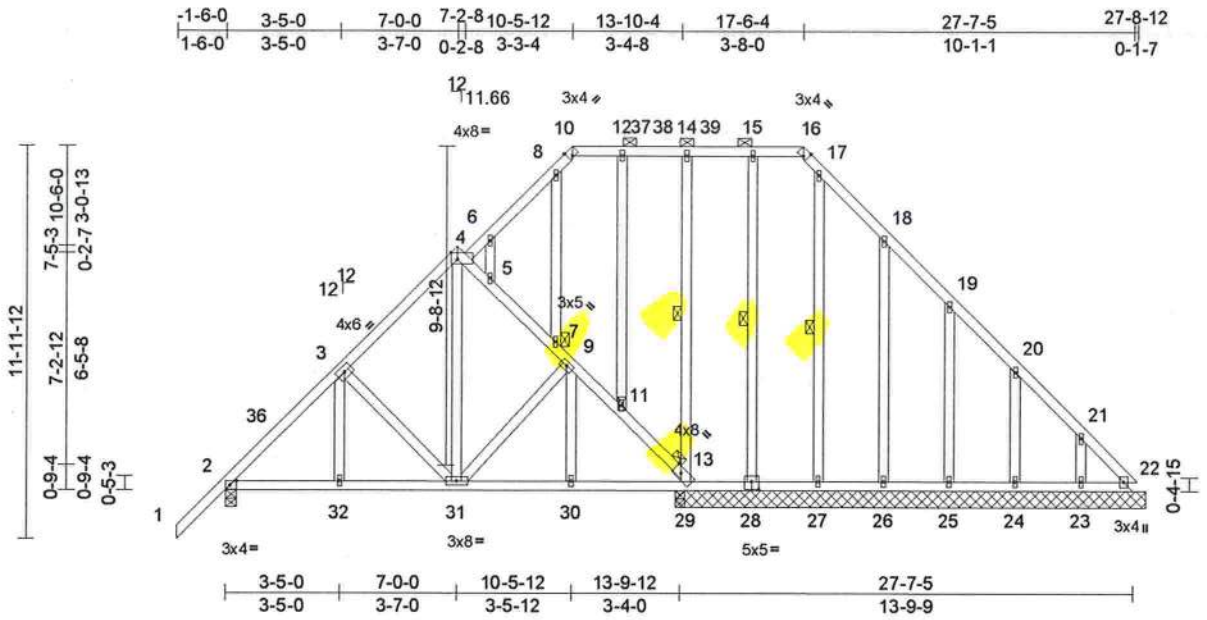
November 15,202

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	C11	Piggyback Base Structural Gable	1	1	T35559982
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:39 ID:YHb6AK62DYGXJfXTKadup1yuvqJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:70.4

Plate Offsets (X, Y): [2:0-2-6,0-1-8], [4:0-2-7,Edge], [10:0-1-8,Edge], [13:0-3-0,0-2-0], [16:0-1-8,Edge], [28:0-2-8,0-3-0]

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	0.15	Vert(LL)	-0.02	30-31	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	-0.04	30-31	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.01	22	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 239 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 10-16, 4-13.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 13-14, 15-28, 17-27
JOINTS	1 Brace at Jt(s): 13, 11, 7

REACTIONS (size) 2=0-4-0, 22=14-4-0, 23=14-4-0, 24=14-4-0, 25=14-4-0, 26=14-4-0, 27=14-4-0, 28=14-4-0, 29=0-3-8

Max Horiz 2=235 (LC 11)

Max Uplift 2=-16 (LC 12), 22=-37 (LC 11), 23=-54 (LC 12), 24=-48 (LC 12), 25=-46 (LC 12), 26=-60 (LC 12), 29=-21 (LC 12)

Max Grav 2=710 (LC 1), 22=180 (LC 17), 23=179 (LC 18), 24=180 (LC 18), 25=177 (LC 18), 26=189 (LC 18), 27=111 (LC 24), 28=91 (LC 24), 29=642 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/64, 2-3=-730/0, 3-4=-553/48, 10-12=-114/98, 12-14=-114/98, 14-15=-121/99, 15-16=-121/99, 4-5=-364/61, 5-7=-407/98, 7-9=-474/99, 9-11=-502/68, 11-13=-529/69, 4-6=-156/40, 6-8=-154/86, 8-10=-121/87, 16-17=-126/91, 17-18=-171/101, 18-19=-173/24, 19-20=-192/33, 20-21=-209/71, 21-22=-214/104

BOT CHORD 2-32=-28/572, 31-32=-25/572, 30-31=0/503, 29-30=0/503, 27-29=-73/156, 26-27=-73/156, 25-26=-73/156, 24-25=-73/156, 23-24=-73/156, 22-23=-74/157

WEBS 13-29=-543/91, 13-14=-194/47, 15-28=-74/15, 17-27=-65/16, 18-26=-151/88, 19-25=-137/73, 20-24=-141/77, 21-23=-132/69, 11-12=-45/6, 7-8=-96/21, 5-6=-64/53, 4-31=0/317, 3-32=0/135, 9-30=0/123, 3-31=-204/66, 9-31=-120/0

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 10-5-12, Zone2 10-5-12 to 14-8-11, Zone1 14-8-11 to 27-7-2 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
10) All bearings are assumed to be SP No.2 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 2, 37 lb uplift at joint 22, 60 lb uplift at joint 26, 46 lb uplift at joint 25, 48 lb uplift at joint 24, 54 lb uplift at joint 23 and 21 lb uplift at joint 29.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	D01	Piggyback Base Supported Gable	1	1	T35559983
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:39 Page: 1
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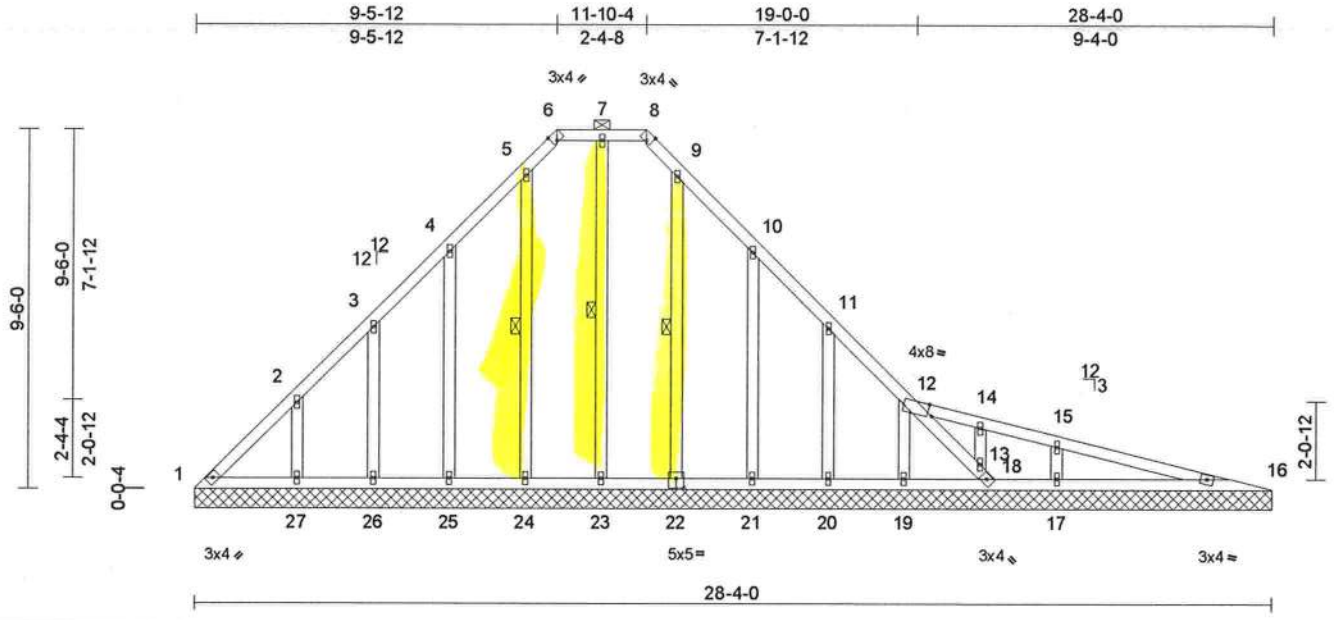

Scale = 1:61

Plate Offsets (X, Y): [6:0-1-8,Edge], [8:0-1-8,Edge], [12:0-1-7,Edge], [22:0-2-8,0-3-0]

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	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.28	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.01	16	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 174 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 6-8, 12-18.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-23, 9-22, 5-24

REACTIONS (size) 1=28-4-0, 16=28-4-0, 17=28-4-0, 18=28-4-0, 19=28-4-0, 20=28-4-0, 21=28-4-0, 22=28-4-0, 23=28-4-0, 24=28-4-0, 25=28-4-0, 26=28-4-0, 27=28-4-0, 34=28-4-0
Max Horiz 1=-194 (LC 10)
Max Uplift 1=-62 (LC 10), 20=-54 (LC 12), 21=-58 (LC 12), 25=-60 (LC 12), 26=-48 (LC 12), 27=-39 (LC 12)
Max Grav 1=126 (LC 18), 16=161 (LC 24), 17=520 (LC 24), 19=181 (LC 24), 20=158 (LC 18), 21=186 (LC 18), 22=169 (LC 18), 23=178 (LC 1), 24=183 (LC 17), 25=182 (LC 17), 26=160 (LC 17), 27=239 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 6-7=-57/168, 7-8=-57/168, 1-2=-328/194, 2-3=-185/146, 3-4=-79/117, 4-5=-59/126, 5-6=-70/180, 8-9=-70/182, 9-10=-50/158, 10-11=-40/82, 11-12=-83/104, 12-13=-124/0, 13-18=-124/128, 12-14=-98/165, 14-15=-120/135, 15-16=-363/172
BOT CHORD 1-27=-96/213, 26-27=-96/213, 25-26=-96/213, 24-25=-96/213, 23-24=-96/213, 21-23=-96/213, 20-21=-96/213, 19-20=-96/213, 18-19=-96/213, 17-18=-135/195, 16-17=-135/346
WEBS 7-23=-137/0, 9-22=-130/23, 10-21=-142/147, 11-20=-130/124, 12-19=-101/64, 13-14=-6/53, 15-17=-299/146, 5-24=-144/64, 4-25=-139/199, 3-26=-132/172, 2-27=-163/178

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=27ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-0-0 to 11-10-4, Zone2 11-10-4 to 18-8-2, Zone3 18-8-2 to 28-4-0 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) 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) All bearings are assumed to be SP No.2 .
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 1, 58 lb uplift at joint 21, 54 lb uplift at joint 20, 60 lb uplift at joint 25, 48 lb uplift at joint 26 and 39 lb uplift at joint 27.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	D02	Piggyback Base	1	1	T35559984
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:39 Page: 1
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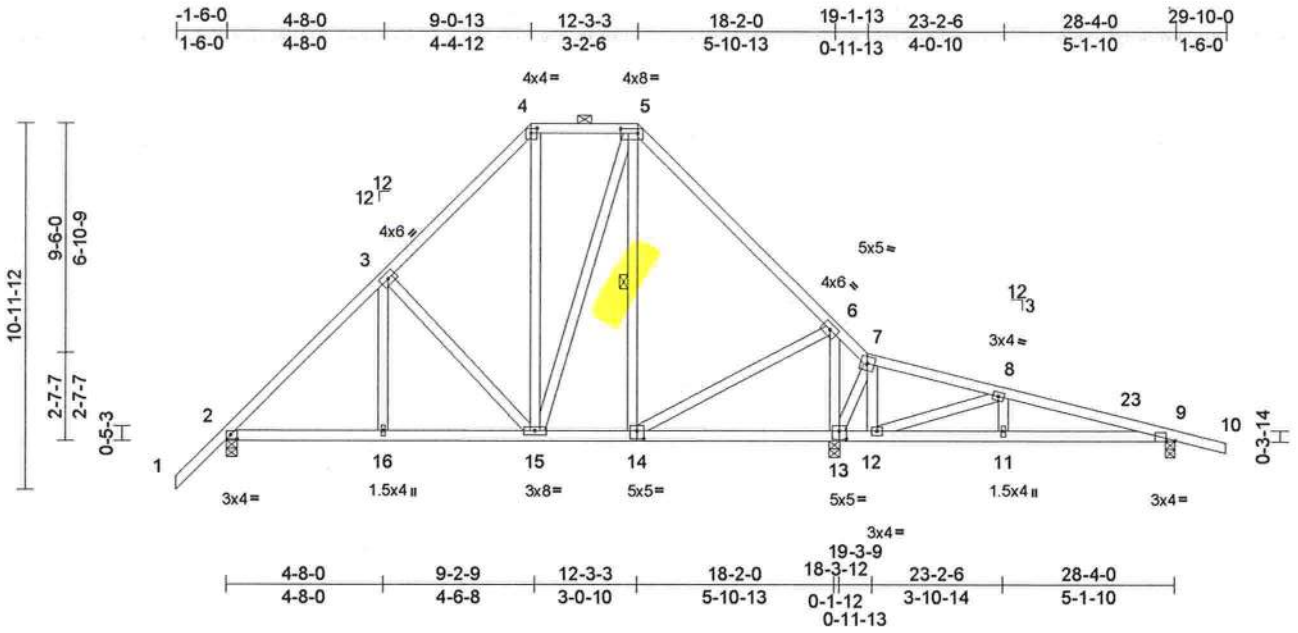

Scale = 1:69.2

Plate Offsets (X, Y): [2:0-2-6,0-1-8], [4:0-2-4,0-1-12], [5:0-6-4,0-1-12], [9:0-3-4,Edge], [13:0-2-8,0-3-0], [14:0-2-8,0-3-0]

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	0.45	Vert(LL)	-0.03	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.04	11-22	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 185 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14,12-13.
WEBS 1 Row at midpt 5-14

REACTIONS (size) 2=0-4-0, 9=0-3-8, 13=0-4-0
Max Horiz 2=-208 (LC 10)
Max Uplift 2=-40 (LC 12), 9=-41 (LC 12)
Max Grav 2=772 (LC 1), 9=401 (LC 24), 13=1275 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/64, 2-3=-800/74, 3-4=-547/157, 4-5=-312/148, 5-6=-510/138, 6-7=-19/461, 7-8=0/255, 8-9=-512/21, 9-10=0/22
BOT CHORD 2-16=0/578, 15-16=0/578, 12-15=-237/291, 11-12=0/481, 9-11=0/481
WEBS 3-15=-321/94, 4-15=-31/167, 5-15=-34/213, 5-14=-155/24, 7-12=-10/214, 8-12=-737/24, 3-16=0/202, 8-11=0/198, 6-13=-1125/168, 6-14=0/516, 7-13=-44/64

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 -1-6-0 to 9-0-13, Zone3 9-0-13 to 12-3-3, Zone1 12-3-3 to 29-10-0 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be SP No.2 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 2 and 41 lb uplift at joint 9.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,202

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	D03	Piggyback Base Girder	2	1	T35559985 Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:39 Page: 1
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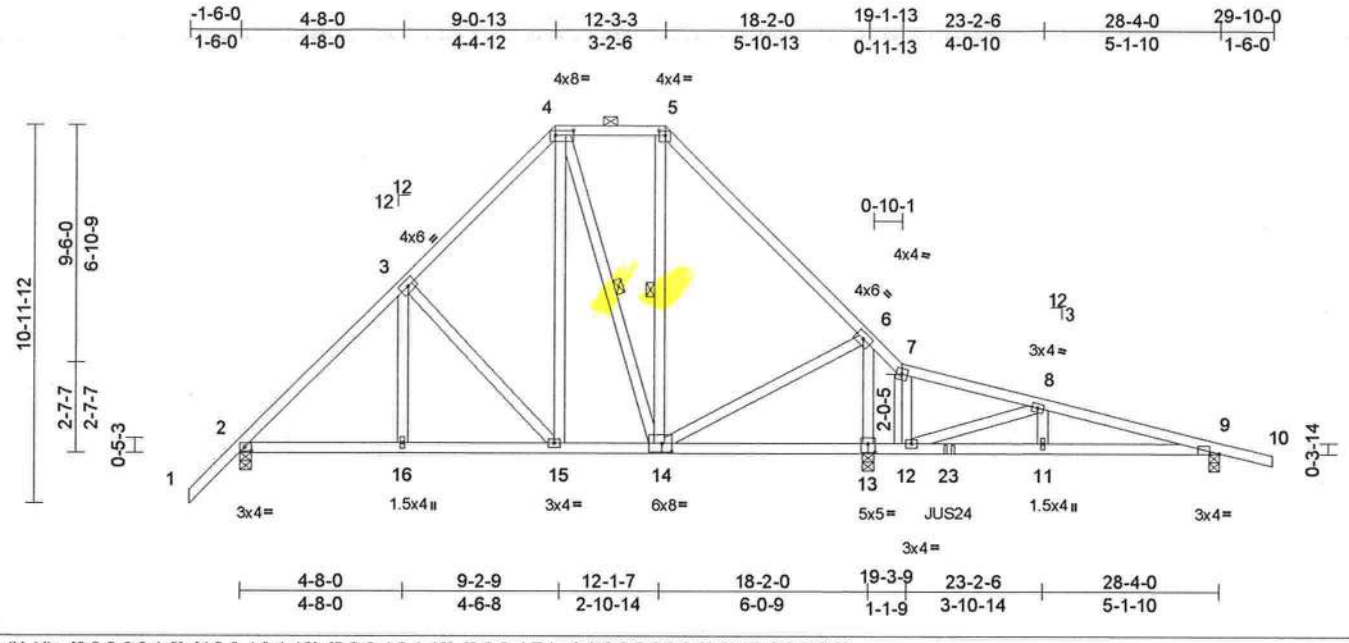

Scale = 1:67

Plate Offsets (X, Y): [2:0-2-6,0-1-8], [4:0-6-4,0-1-12], [5:0-2-4,0-1-12], [9:0-3-4,Edge], [13:0-2-8,0-3-0], [14:0-3-8,0-3-0]

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	0.82	Vert(LL)	-0.06	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	-0.12	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.35	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 182 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14,12-13.
WEBS 1 Row at midpt 4-14, 5-14

REACTIONS (size) 2=0-4-0, 9=0-3-8, 13=0-4-0
Max Horiz 2=-208 (LC 6)
Max Uplift 2=-106 (LC 25), 9=-89 (LC 25)
Max Grav 2=663 (LC 1), 9=335 (LC 20), 13=1933 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/64, 2-3=-647/112, 3-4=-394/195, 4-5=-122/199, 5-6=-309/210, 6-7=0/1263, 7-8=0/759, 8-9=-332/144, 9-10=0/22
BOT CHORD 2-16=-17/476, 15-16=-4/476, 12-15=-766/258, 11-12=-102/305, 9-11=-102/305
WEBS 3-16=0/204, 3-15=-322/80, 4-15=-17/300, 4-14=-335/7, 5-14=-199/24, 7-12=0/705, 8-12=-1077/0, 8-11=0/326, 6-13=-1830/0, 6-14=0/1002

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be SP No.2 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 106 lb uplift at joint 2 and 89 lb uplift at joint 9.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Use MiTek JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 20-6-6 from the left end to connect truss(es) to front face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-60, 4-5=-60, 5-7=-60, 7-10=-60, 17-20=-20
Concentrated Loads (lb)
Vert: 23=-482 (F)

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

Job	Truss	Truss Type	Qty	Ply		
0724-027ORIGINAL	D04	Piggyback Base	1	1	Job Reference (optional)	T35559986

Mayo Truss Company, Inc., Mayo, FL - 32066,

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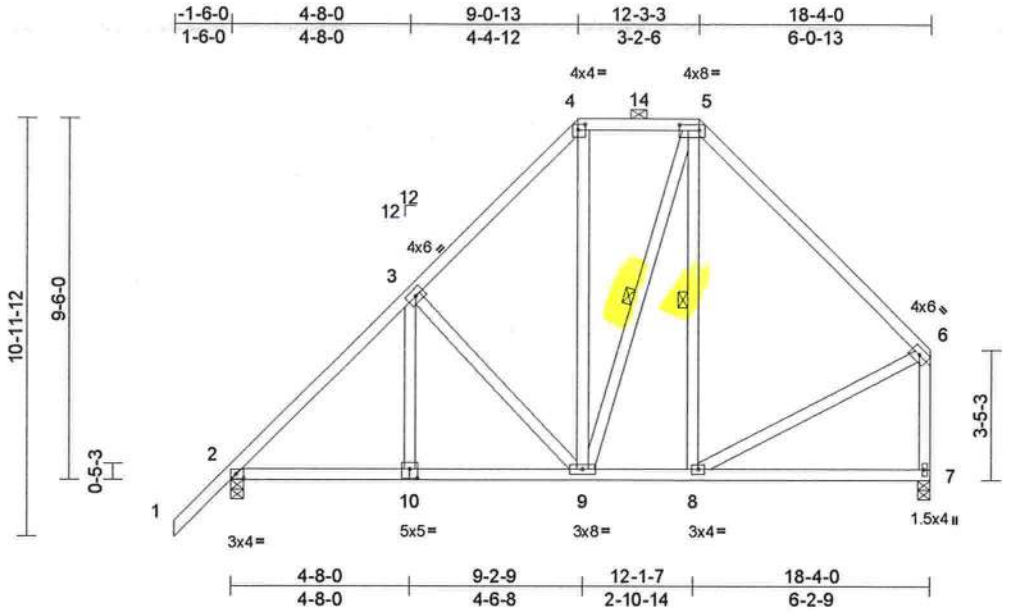

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Plate Offsets (X, Y): [2:0-2-6,0-1-8], [4:0-2-4,0-1-12], [5:0-6-4,0-1-12], [10:0-2-8,0-3-0]

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	0.49	Vert(LL)	-0.04	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.28	Vert(CT)	-0.08	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 138 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-9, 5-8

REACTIONS (size) 2=0-4-0, 7=0-4-0
Max Horiz 2=241 (LC 11)
Max Uplift 2=-38 (LC 12)
Max Grav 2=821 (LC 1), 7=724 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/64, 2-3=-868/20, 3-4=-615/103, 4-5=-360/106, 5-6=-596/84, 6-7=-666/31
BOT CHORD 2-9=-71/609, 8-9=-16/341, 7-8=-46/69
WEBS 3-9=-319/80, 4-9=-30/209, 5-9=-57/158, 5-8=-56/97, 6-8=0/348, 3-10=0/203

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 -1-6-0 to 9-0-13, Zone3 9-0-13 to 12-3-3, Zone1 12-3-3 to 18-2-4 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be SP No.2 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 2.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply		
0724-027ORIGINAL	D05	Piggyback Base	2	1	Job Reference (optional)	T35559987

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:40 Page: 1
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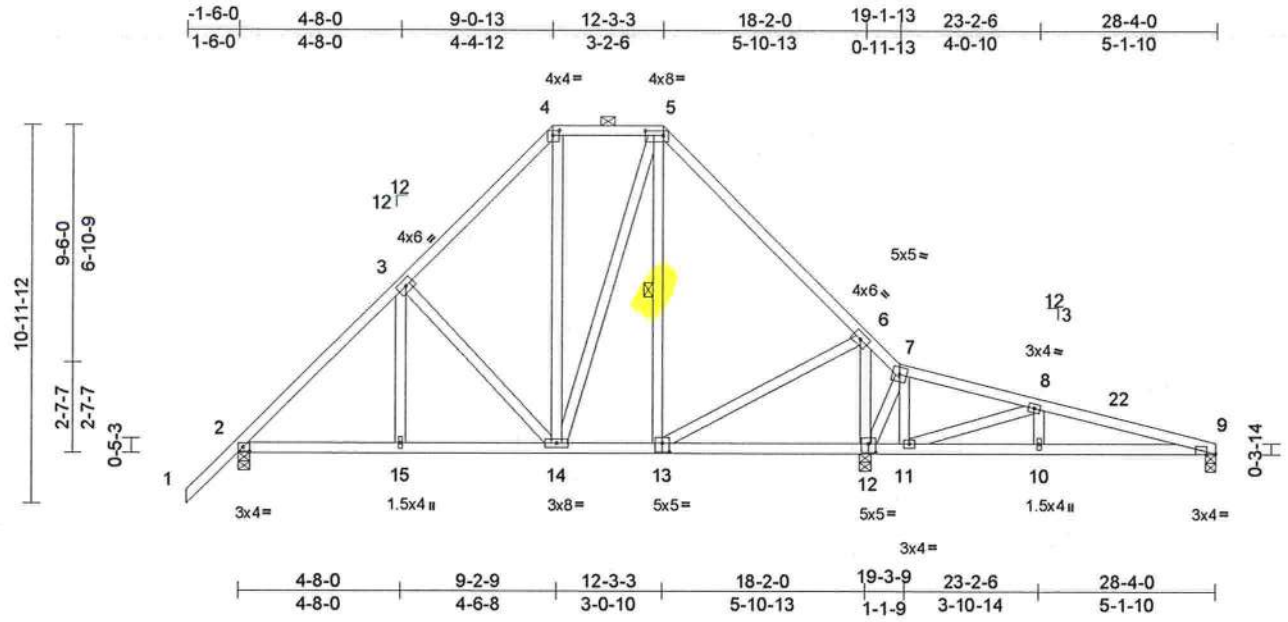

Scale = 1:67

Plate Offsets (X, Y): [2:0-2-6,0-1-8], [4:0-2-4,0-1-12], [5:0-6-4,0-1-12], [9:0-3-4,Edge], [12:0-2-8,0-3-0], [13:0-2-8,0-3-0]

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	0.46	Vert(LL)	-0.03	10-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.32	Vert(CT)	-0.06	10-18	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 183 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13,11-12.
WEBS 1 Row at midpt 5-13

REACTIONS (size) 2=0-4-0, 9=0-3-8, 12=0-4-0
Max Horiz 2=-204 (LC 10)
Max Uplift 2=-38 (LC 12)
Max Grav 2=767 (LC 1), 9=302 (LC 24), 12=1289 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/64, 2-3=-793/73, 3-4=-540/156, 4-5=-307/147, 5-6=-500/136, 6-7=-44/475, 7-8=-12/262, 8-9=-540/61
BOT CHORD 2-15=-6/572, 14-15=0/572, 11-14=-245/282, 10-11=-20/510, 9-10=-44/510
WEBS 3-14=-321/95, 4-14=-26/164, 5-14=-35/217, 5-13=-168/27, 7-11=-21/225, 8-11=-776/96, 6-12=-1139/173, 6-13=0/540, 7-12=-53/60, 8-10=0/202, 3-15=0/202

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 -1-6-0 to 9-0-13, Zone3 9-0-13 to 12-3-3, Zone1 12-3-3 to 28-4-0 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be SP No.2 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 2.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply		
0724-027ORIGINAL	D06	Piggyback Base	1	1	Job Reference (optional)	T35559988

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:40 Page: 1
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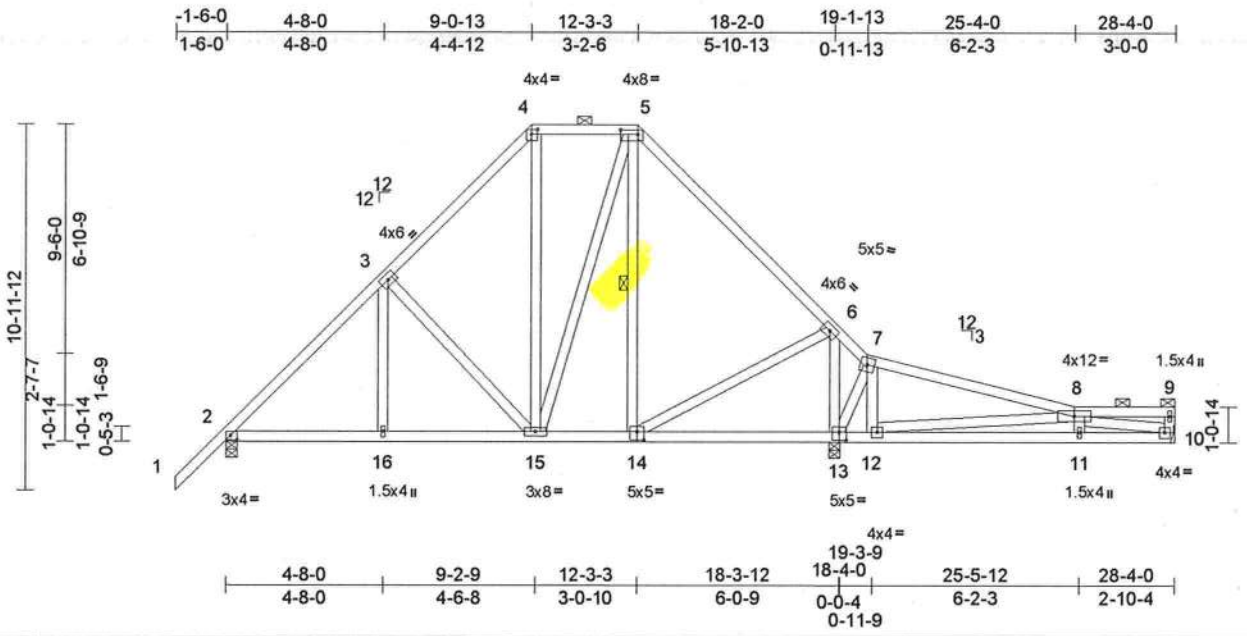


Scale = 1:69.2

Plate Offsets (X, Y): [2:0-2-6,0-1-8], [4:0-2-4,0-1-12], [5:0-6-4,0-1-12], [13:0-2-8,0-3-0], [14:0-2-8,0-3-0]

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	0.52	Vert(LL)	-0.04	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.09	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 189 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5, 8-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 13-14,12-13.
WEBS 1 Row at midpt 5-14

REACTIONS (size) 2=0-4-0, 10= Mechanical, 13=0-4-0
Max Horiz 2=-204 (LC 10)
Max Uplift 2=-39 (LC 12)
Max Grav 2=761 (LC 1), 10=275 (LC 24), 13=1311 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/64, 2-3=-784/74, 3-4=-531/157, 4-5=-300/148, 5-6=-487/138, 6-7=-56/488, 7-8=-52/296, 8-9=-50/15, 9-10=-66/49
BOT CHORD 2-16=-19/565, 15-16=0/565, 12-15=-260/274, 11-12=-62/674, 10-11=-49/687
WEBS 3-15=-322/94, 4-15=-26/157, 5-15=-37/223, 5-14=-183/31, 7-12=0/255, 8-12=-918/107, 8-11=0/190, 8-10=-660/21, 6-13=-1106/167, 6-14=0/577, 7-13=-161/26, 3-16=0/202

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 -1-6-0 to 9-0-13, Zone3 9-0-13 to 12-3-3, Zone1 12-3-3 to 28-2-4 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Bearings are assumed to be: Joint 2 SP No.2 , Joint 13 SP No.2 .
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 2.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

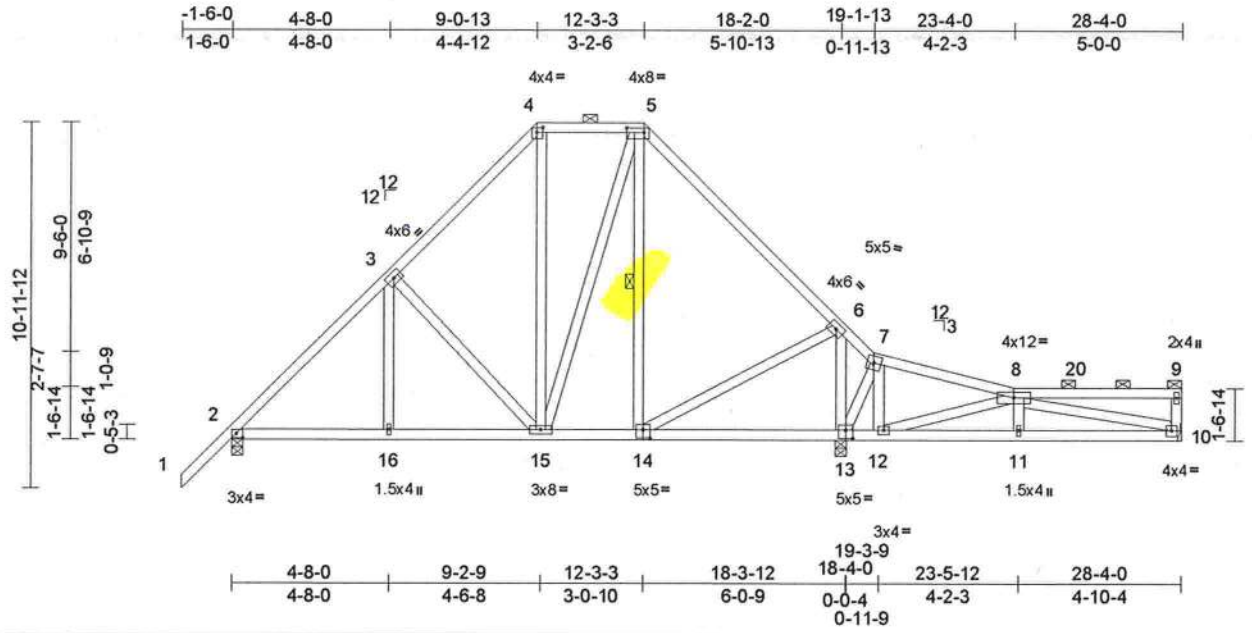
November 15,202

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	D07	Piggyback Base	1	1	T35559989 Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:40 Page: 1
ID:YZFlAWzfrwbLZ5VcFyMjUYyuwwD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:69.2

Plate Offsets (X, Y): [2:0-2-6,0-1-8], [4:0-2-4,0-1-12], [5:0-6-4,0-1-12], [13:0-2-8,0-3-0], [14:0-2-8,0-3-0]

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	0.45	Vert(LL)	-0.03	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.05	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 191 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5, 8-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 13-14,12-13.
WEBS 1 Row at midpt 5-14

REACTIONS (size) 2=0-4-0, 10= Mechanical, 13=0-4-0
Max Horiz 2=214 (LC 11)
Max Uplift 2=-39 (LC 12), 10=-1 (LC 9)
Max Grav 2=772 (LC 1), 10=297 (LC 24), 13=1278 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/64, 2-3=-800/75, 3-4=-547/158, 4-5=-312/149, 5-6=-510/139, 6-7=-70/452, 7-8=-36/249, 8-9=-77/23, 9-10=-147/85
BOT CHORD 2-16=-27/574, 15-16=-22/574, 12-15=-227/286, 11-12=-36/448, 10-11=-29/458
WEBS 3-15=-321/94, 4-15=-26/166, 5-15=-39/214, 5-14=-156/35, 7-12=-21/214, 8-12=-688/56, 8-11=0/193, 8-10=-395/0, 6-13=-1112/188, 6-14=0/518, 7-13=-58/40, 3-16=0/202

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 -1-6-0 to 9-0-13, Zone3 9-0-13 to 12-3-3, Zone1 12-3-3 to 28-2-4 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Bearings are assumed to be: Joint 2 SP No.2 , Joint 13 SP No.2 .
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 10 and 39 lb uplift at joint 2.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

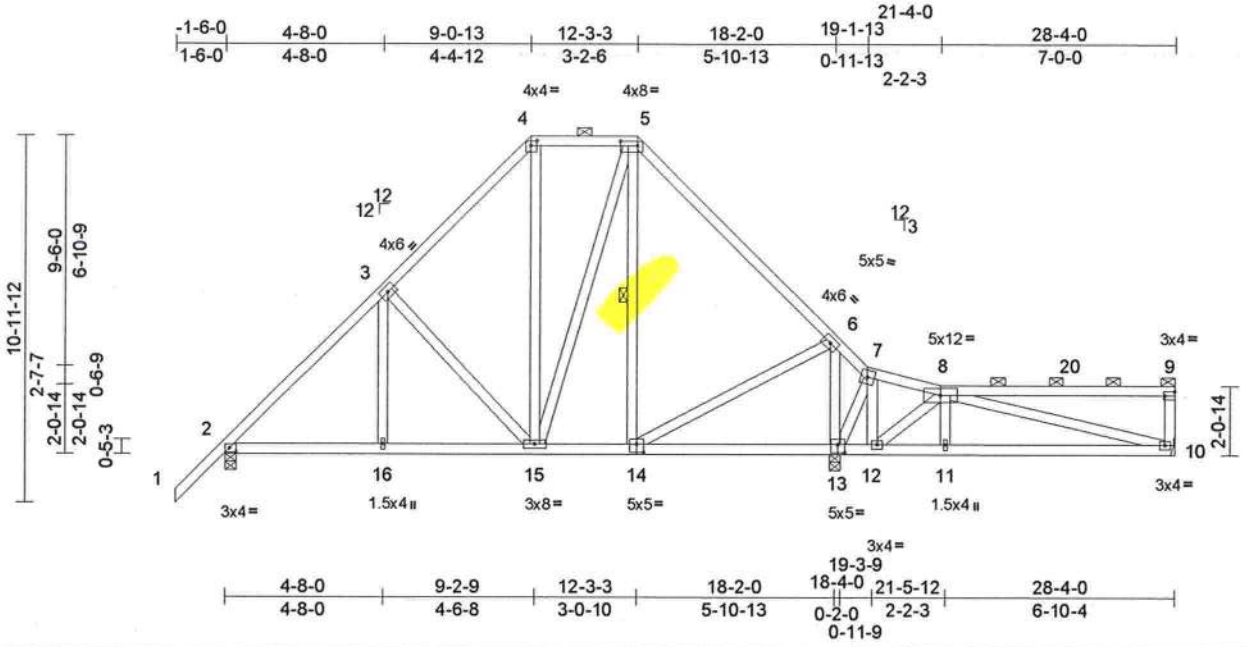
November 15,202

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply		
0724-027ORIGINAL	D08	Piggyback Base	1	1	Job Reference (optional)	T35559990

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:40 Page: 1
ID:YZFlAWzfrwbLZ5VcFyMjUYyuwwD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:69.2

Plate Offsets (X, Y): [2:0-2-6,0-1-8], [4:0-2-4,0-1-12], [5:0-6-4,0-1-12], [9:Edge,0-1-8], [13:0-2-8,0-3-0], [14:0-2-8,0-3-0]

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	0.60	Vert(LL)	-0.05	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.11	10-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 193 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5, 8-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 13-14,12-13.
WEBS 1 Row at midpt 5-14

REACTIONS (size) 2=0-4-0, 10= Mechanical, 13=0-4-0
Max Horiz 2=224 (LC 11)
Max Uplift 2=-40 (LC 12), 10=-3 (LC 9)
Max Grav 2=783 (LC 1), 10=324 (LC 24), 13=1239 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/64, 2-3=-815/77, 3-4=-563/160, 4-5=-323/150, 5-6=-531/142, 6-7=-79/376, 7-8=-17/166, 8-9=-103/33, 9-10=-207/104
BOT CHORD 2-16=-44/582, 15-16=-44/582, 12-15=-169/297, 11-12=-25/294, 10-11=-18/305
WEBS 3-15=-321/94, 4-15=-27/174, 5-15=-40/207, 5-14=-131/37, 7-12=-73/278, 8-12=-572/19, 8-11=0/279, 8-10=-211/0, 6-13=-1077/203, 6-14=0/465, 7-13=-57/73, 3-16=0/201

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 -1-6-0 to 9-0-13, Zone3 9-0-13 to 12-3-3, Zone1 12-3-3 to 28-2-4 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Bearings are assumed to be: Joint 2 SP No.2 , Joint 13 SP No.2 .
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 10 and 40 lb uplift at joint 2.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

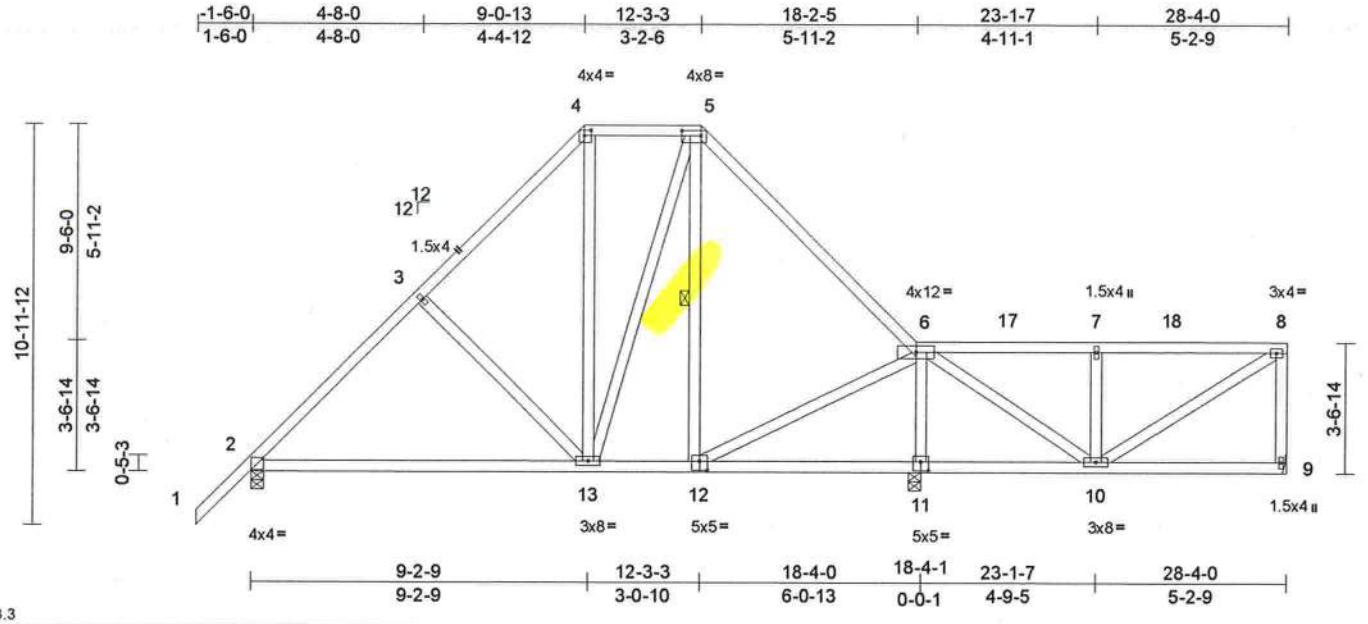
November 15,202

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	D09	Piggyback Base	1	1	T35559991 Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:40 Page: 1
ID:YZFlAWzfrwbLZ5VcFyMjUYyuwwD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:63.3

Plate Offsets (X, Y): [4:0-2-4,0-1-12], [5:0-6-4,0-1-12], [11:0-2-8,0-3-0], [12:0-2-8,0-3-0]

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	0.47	Vert(LL)	-0.16	13-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.32	13-16	>694	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 187 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-12

REACTIONS (size) 2=0-4-0, 9= Mechanical, 11=0-4-0
Max Horiz 2=244 (LC 11)
Max Uplift 2=-33 (LC 12), 9=-6 (LC 9), 11=-11 (LC 12)
Max Grav 2=804 (LC 1), 9=357 (LC 24), 11=1189 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/64, 2-3=-777/64, 3-4=-613/103, 4-5=-355/112, 5-6=-556/92, 6-7=-291/39, 7-8=-291/39, 8-9=-307/32
BOT CHORD 2-13=-105/579, 10-13=-129/321, 9-10=-35/54
WEBS 3-13=-268/121, 4-13=-16/230, 5-13=-26/223, 5-12=-140/42, 6-12=-12/398, 6-11=-1066/119, 6-10=-22/450, 7-10=-328/76, 8-10=-13/322

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 -1-6-0 to 9-0-13, Zone3 9-0-13 to 12-3-3, Zone1 12-3-3 to 28-2-4 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Bearings are assumed to be: Joint 2 SP No.2 , Joint 11 SP No.2 .
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 9, 33 lb uplift at joint 2 and 11 lb uplift at joint 11.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	D10	Piggyback Base	1	1	T35559992 Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:40 Page: 1
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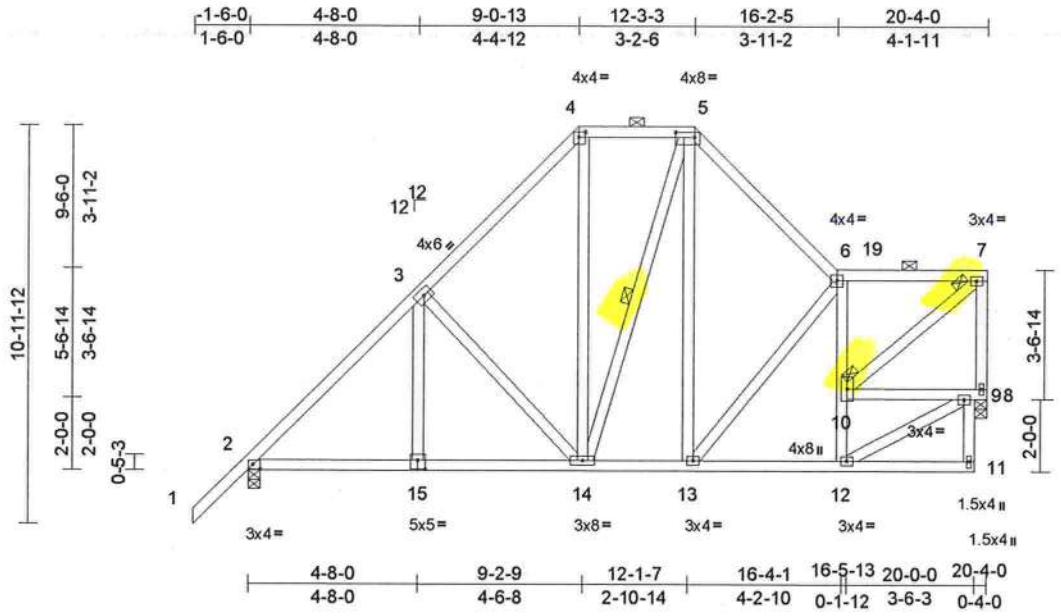

Scale = 1:63.7

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

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	0.22	Vert(LL)	-0.02	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.04	14-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 170 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-9-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5, 6-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 9-10.
WEBS 1 Row at midpt 5-14
JOINTS 1 Brace at Jt(s): 10, 7

REACTIONS (size) 2=0-4-0, 8=0-4-0
Max Horiz 2=216 (LC 11)
Max Uplift 2=-34 (LC 12), 8=-1 (LC 12)
Max Grav 2=901 (LC 1), 8=804 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/64, 2-3=-977/52, 3-4=-728/134, 4-5=-441/132, 5-6=-684/135, 6-7=-476/85, 7-8=-504/57
BOT CHORD 2-14=-138/670, 13-14=-64/426, 12-13=-67/500, 11-12=0/26, 9-11=0/59, 9-10=-478/36, 8-9=-39/55
WEBS 3-14=-315/95, 4-14=-23/264, 5-14=-65/119, 5-13=-27/211, 6-13=-168/86, 10-12=-187/92, 6-10=-567/113, 3-15=0/196, 9-12=-80/545, 7-10=-42/596

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 -1-6-0 to 9-0-13, Zone3 9-0-13 to 12-3-3, Zone1 12-3-3 to 20-2-4 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be SP No.2 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 8 and 34 lb uplift at joint 2.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

JULIUS LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply		
0724-027ORIGINAL	D11	Piggyback Base	1	1	Job Reference (optional)	T35559993

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Fri Nov 15 07:49:36 Page: 1
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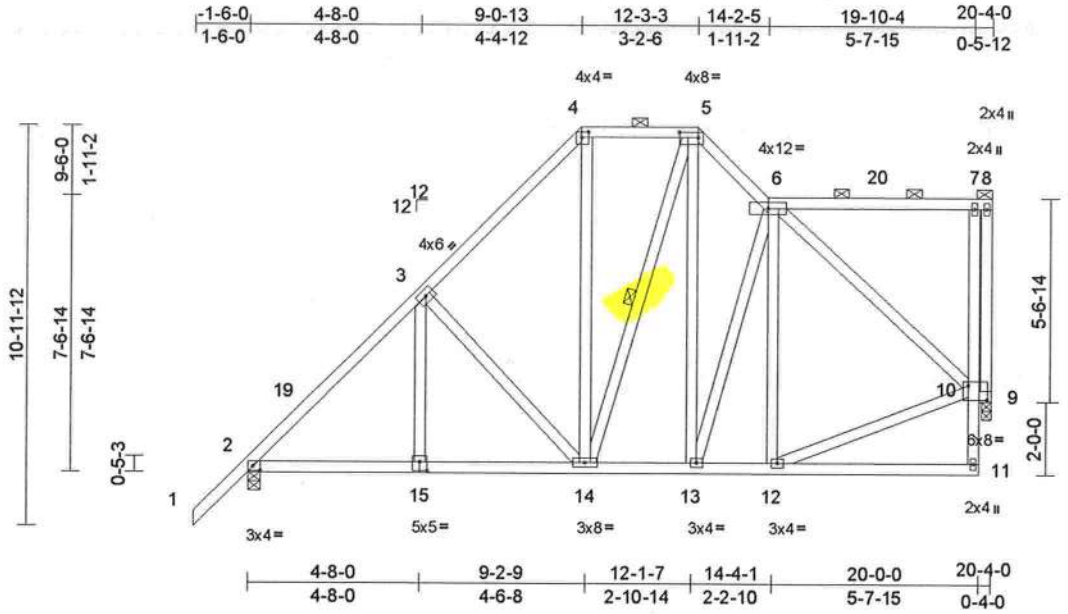


Scale = 1:63.3

Plate Offsets (X, Y): [2:0-2-6,0-1-8], [4:0-2-4,0-1-12], [5:0-6-4,0-1-12], [9:0-6-4,0-4-12], [15:0-2-8,0-3-0]

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	0.37	Vert(LL)	-0.03	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	-0.06	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 186 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-10-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5, 6-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 9-10.
WEBS 1 Row at midpt 5-14

REACTIONS (lb/size) 2=901/0-4-0, 9=804/0-3-0
Max Horiz 2=237 (LC 9)
Max Uplift 2=-31 (LC 12), 9=-18 (LC 9)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-19=-977/24, 3-19=-890/58, 3-4=-729/140, 4-5=-442/136, 5-6=-649/171
BOT CHORD 2-15=-252/670, 14-15=-252/670, 13-14=-138/421, 12-13=-126/478, 9-10=-390/58
WEBS 3-14=-313/124, 4-14=-22/262, 5-13=-82/272, 6-13=-261/97, 10-12=-128/435, 6-10=-570/74

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C 20-2-4 to 20-2-4 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 9 and 31 lb uplift at joint 2.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

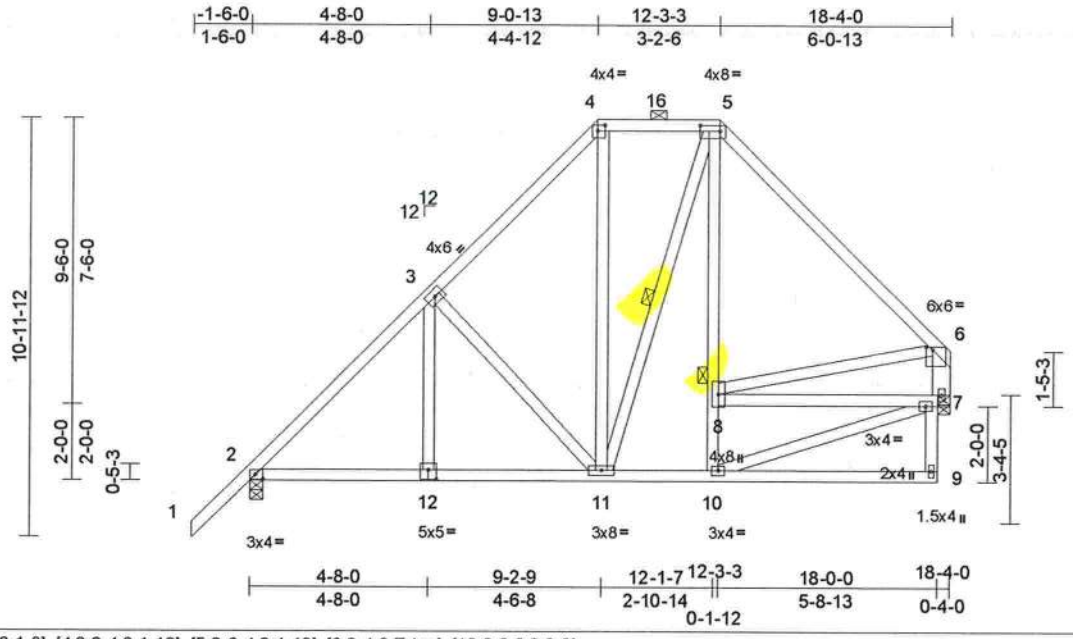
November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	D12	Piggyback Base	1	1	T35559994 Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:41 Page: 1
ID:DPvFlNvqsgPWwXIFwgZesByuwfV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:60.7

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

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	0.44	Vert(LL)	-0.04	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.09	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 155 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 7-8.
WEBS 1 Row at midpt 5-11
JOINTS 1 Brace at Jt(s): 8

REACTIONS (size) 2=0-4-0, 7=0-4-0
Max Horiz 2=198 (LC 11)
Max Uplift 2=-25 (LC 12)
Max Grav 2=825 (LC 1), 7=820 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/64, 2-3=-873/1, 3-4=-621/84, 4-5=-365/93, 5-6=-604/60, 6-7=-575/28
BOT CHORD 2-11=-40/605, 10-11=0/338, 9-10=0/33, 7-9=0/107, 7-8=-338/0
WEBS 3-11=-318/80, 4-11=-16/233, 5-11=-60/157, 8-10=-11/117, 5-8=-40/151, 3-12=0/201, 7-10=0/345, 6-8=0/346

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 -1-6-0 to 9-0-13, Zone3 9-0-13 to 12-3-3, Zone1 12-3-3 to 18-1-4 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be SP No.2 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 2.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

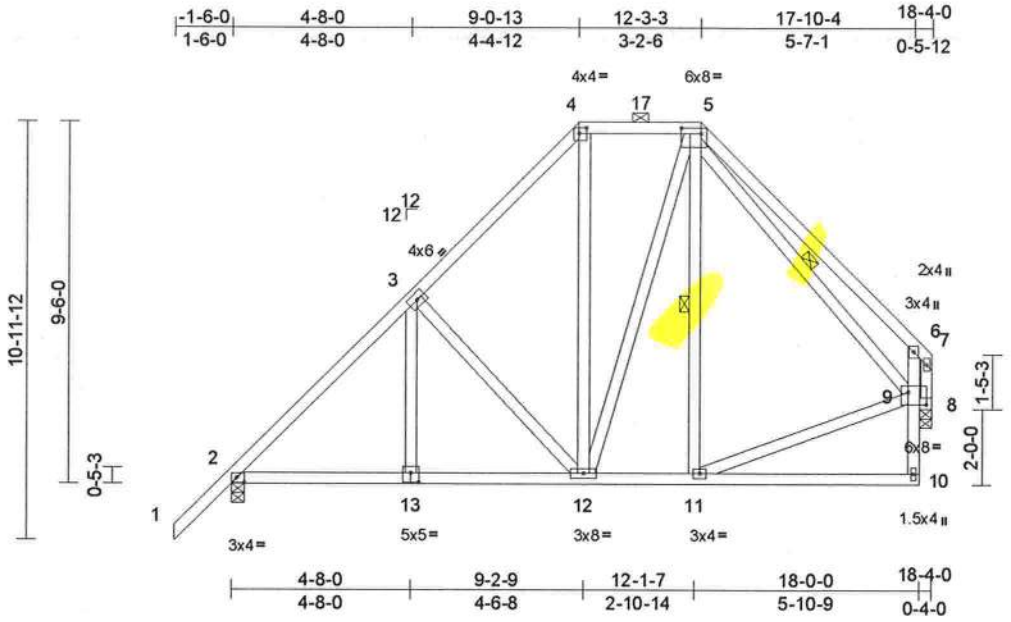
November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply		
0724-027ORIGINAL	D13	Piggyback Base	8	1	Job Reference (optional)	T35559995

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:41 Page: 1
ID:5e5wS7Y0wSdnKw0UAN0cetyuwfz-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:60.7

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

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)	-0.03	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.07	10-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 152 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 8-9.
WEBS 1 Row at midpt 5-11, 5-9

REACTIONS (size) 2=0-4-0, 8=0-4-0, 9=0-4-0
Max Horiz 2=198 (LC 11)
Max Uplift 2=-29 (LC 12), 8=-293 (LC 18), 9=-390 (LC 12)
Max Grav 2=805 (LC 1), 8=384 (LC 12), 9=942 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/64, 2-3=-845/6, 3-4=-593/89, 4-5=-345/96, 5-6=-270/126, 6-7=-213/233, 7-8=-316/373
BOT CHORD 2-12=-43/589, 11-12=0/315, 10-11=0/27, 9-10=0/106, 6-9=-685/432, 8-9=-43/15
WEBS 3-12=-318/80, 4-12=-15/198, 5-12=-48/179, 5-11=-13/123, 9-11=0/325, 5-9=-353/0, 3-13=0/202

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 -1-6-0 to 9-0-13, Zone3 9-0-13 to 12-3-3, Zone1 12-3-3 to 18-2-4 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be SP No.2 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 2, 293 lb uplift at joint 8 and 390 lb uplift at joint 9.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply		
0724-027ORIGINAL	D14	Piggyback Base	1	1	Job Reference (optional)	T35559996

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:41 Page: 1
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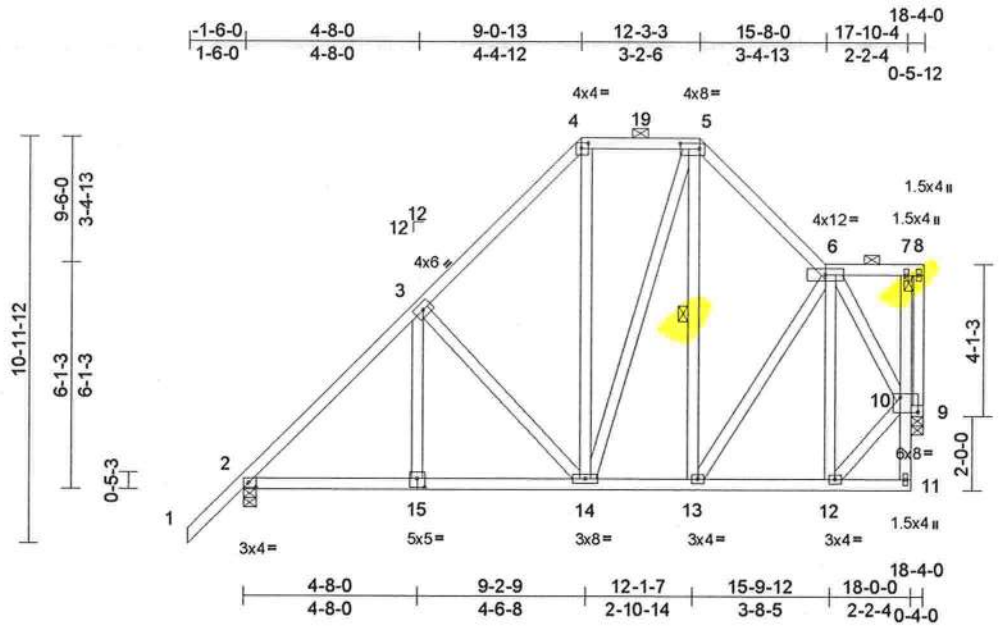

Scale = 1:62.5

Plate Offsets (X, Y): [2:0-2-6,0-1-8], [4:0-2-4,0-1-12], [5:0-6-4,0-1-12], [9:0-5-12,0-4-12], [15:0-2-8,0-3-0]

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	0.22	Vert(LL)	-0.01	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	-0.03	14-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 164 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5, 6-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 11-12.
WEBS 1 Row at midpt 5-13

REACTIONS (size) 2=0-4-0, 9=0-4-0, 10=0-4-0
Max Horiz 2=221 (LC 11)
Max Uplift 2=-33 (LC 12), 9=-70 (LC 1), 10=-2 (LC 12)
Max Grav 2=806 (LC 1), 9=0 (LC 12), 10=809 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/64, 2-3=-846/55, 3-4=-595/137, 4-5=-352/134, 5-6=-495/143, 6-7=-53/59, 7-8=-55/61, 8-9=-27/56
BOT CHORD 2-14=-150/585, 13-14=-71/305, 12-13=-56/238, 11-12=-3/2, 10-11=0/22, 7-10=-122/53, 9-10=-17/38
WEBS 3-14=-317/95, 4-14=-19/193, 5-14=-47/199, 5-13=-61/88, 6-13=-33/148, 6-12=-199/100, 10-12=-78/354, 6-10=-441/63, 3-15=0/198

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 -1-6-0 to 9-0-13, Zone3 9-0-13 to 12-3-3, Zone1 12-3-3 to 18-2-4 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be SP No.2 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 70 lb uplift at joint 9, 33 lb uplift at joint 2 and 2 lb uplift at joint 10.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,202

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply		
0724-027ORIGINAL	D15	Piggyback Base	1	1	Job Reference (optional)	T35559997

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:41 Page: 1
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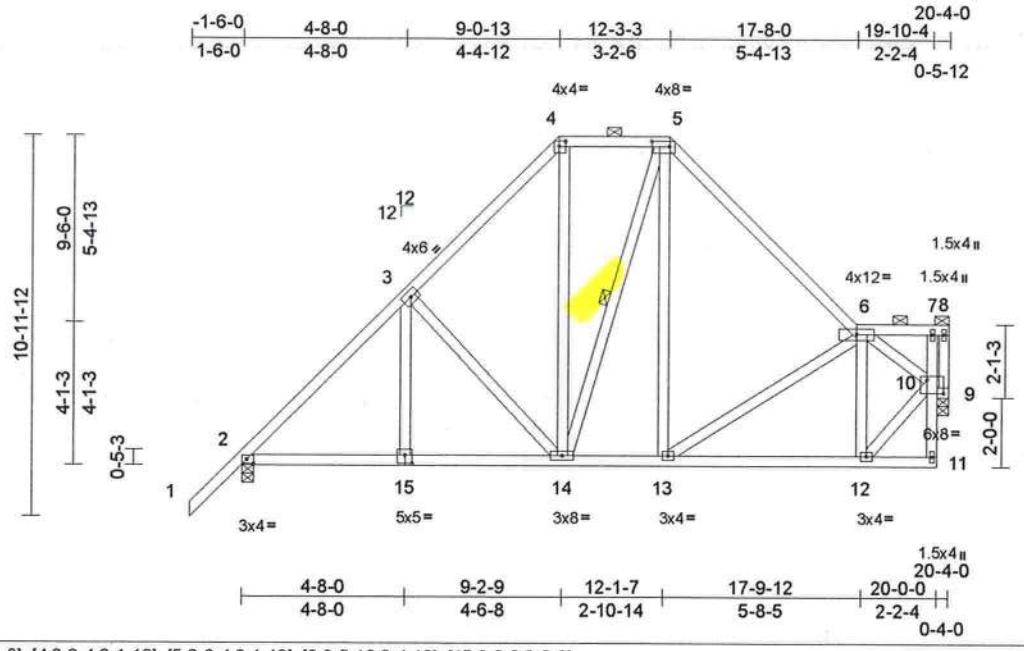

Scale = 1:66.5

Plate Offsets (X, Y): [2:0-2-6,0-1-8], [4:0-2-4,0-1-12], [5:0-6-4,0-1-12], [9:0-5-12,0-4-12], [15:0-2-8,0-3-0]

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	0.40	Vert(LL)	-0.03	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.06	12-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 159 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-10-10 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5, 6-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 11-12.
WEBS 1 Row at midpt 5-14

REACTIONS (size) 2=0-4-0, 9=0-4-0, 10=0-4-0
Max Horiz 2=203 (LC 11)
Max Uplift 2=-36 (LC 12), 9=-222 (LC 1)
Max Grav 2=884 (LC 1), 9=-13 (LC 12), 10=1044 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/64, 2-3=-954/48, 3-4=-703/131, 4-5=-423/129, 5-6=-692/114, 6-7=-26/54, 7-8=-21/32, 8-9=0/101
BOT CHORD 2-14=-84/655, 13-14=-16/410, 12-13=-40/416, 11-12=-6/0, 10-11=-7/0, 7-10=-160/23, 9-10=-26/85
WEBS 3-14=-317/95, 4-14=-29/254, 5-14=-75/119, 5-13=0/189, 6-13=-87/82, 6-12=-359/101, 10-12=-51/612, 6-10=-534/53, 3-15=0/199

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 -1-6-0 to 9-0-13, Zone3 9-0-13 to 12-3-3, Zone1 12-3-3 to 20-2-4 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be SP No.2 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 222 lb uplift at joint 9 and 36 lb uplift at joint 2.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply		
0724-027ORIGINAL	D16	Piggyback Base	1	1	Job Reference (optional)	T35559998

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:42 Page: 1
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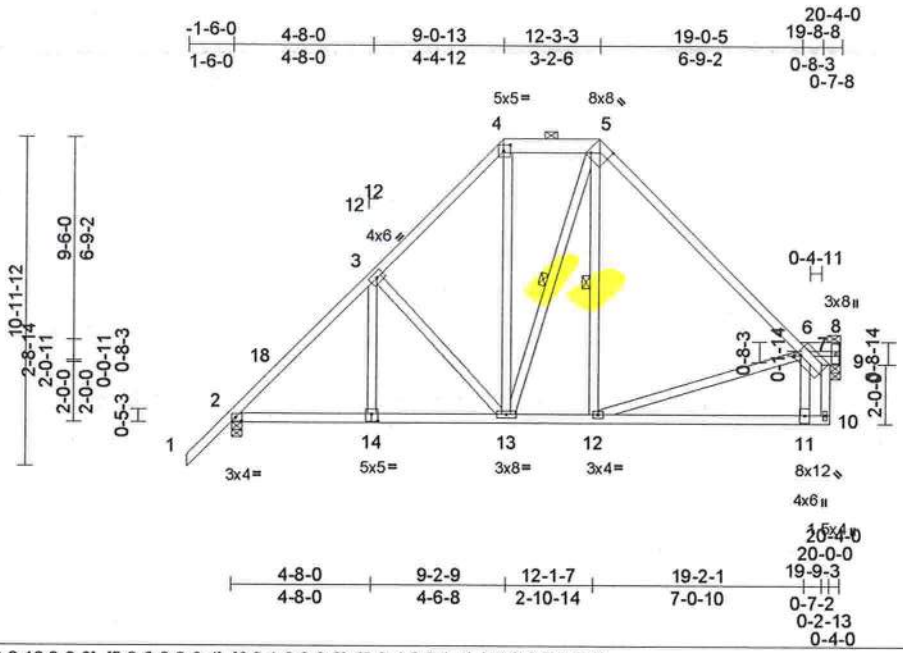


Scale = 1:77.2

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

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	0.96	Vert(LL)	-0.12	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.25	11-12	>980	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 151 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 4-5:2x6 SP No.2, 5-7:2x4 SP SS
BOT CHORD 2x4 SP No.2 *Except* 7-9:2x4 SP 2400F 2.0E
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5, 6-7, 6-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-13, 5-12

REACTIONS (size) 2=0-4-0, 9=0-4-0
Max Horiz 2=189 (LC 11)
Max Uplift 2=-36 (LC 12)
Max Grav 2=901 (LC 1), 9=806 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/64, 2-3=-977/65, 3-4=-727/145, 4-5=-445/157, 5-6=-674/105, 6-7=-159/0, 6-8=-500/44, 8-9=-249/42
BOT CHORD 2-13=-81/671, 12-13=0/465, 11-12=0/132, 10-11=0/13, 7-10=-244/0, 7-9=-53/500
WEBS 3-13=-312/119, 4-13=-53/342, 5-13=-150/76, 5-12=-7/159, 7-12=-35/405, 3-14=0/201, 7-11=0/438

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-0-13, Zone3 9-0-13 to 12-3-3, Zone1 12-3-3 to 20-2-4 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Bearings are assumed to be: Joint 2 SP No.2 , Joint 9 SP 2400F 2.0E .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 2.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

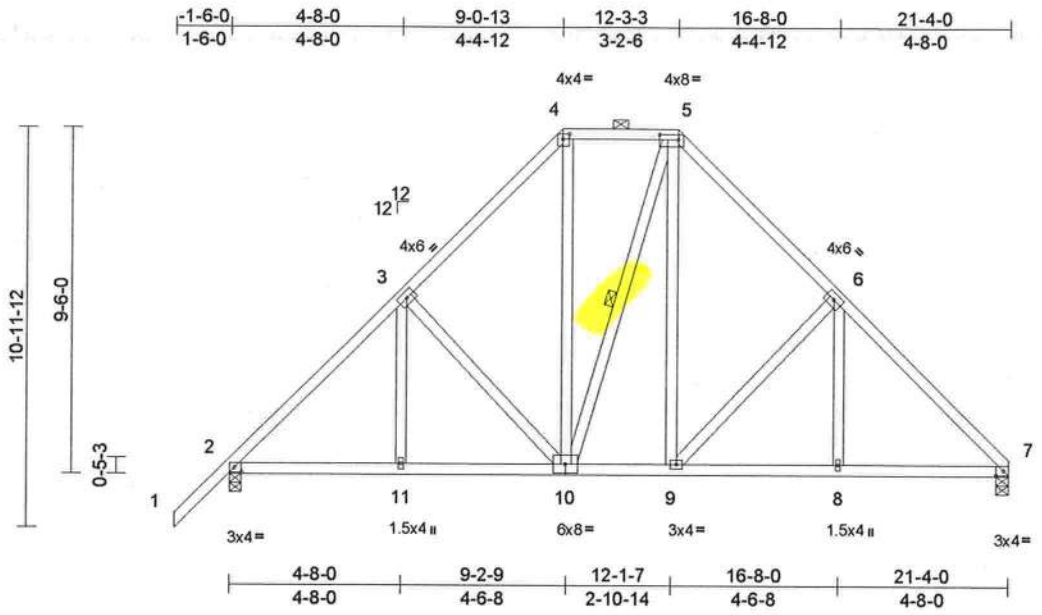
Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	D17	Piggyback Base	4	1	T35559999 Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:42 Page: 1
ID:ipoLAnnxAvRvW7kiSZxgXHyuwkq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:63.3

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

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	0.23	Vert(LL)	-0.02	9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.05	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 151 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-6-12 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-10

REACTIONS (size) 2=0-4-0, 7=0-4-0
Max Horiz 2=211 (LC 11)
Max Uplift 2=-39 (LC 12)
Max Grav 2=946 (LC 1), 7=850 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/64, 2-3=-1040/19, 3-4=-793/101, 4-5=-487/106, 5-6=-793/103, 6-7=-1052/30
BOT CHORD 2-11=-22/722, 9-11=0/722, 8-9=0/687, 7-8=-15/687
WEBS 3-10=-313/80, 4-10=-18/298, 5-10=-89/92, 5-9=-22/302, 6-9=-333/96, 3-11=0/194, 6-8=0/202

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 -1-6-0 to 9-0-13, Zone3 9-0-13 to 12-3-3, Zone1 12-3-3 to 21-4-0 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be SP No.2 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 2.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	D18	Piggyback Base	2	1	T35560000
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:42 Page: 1
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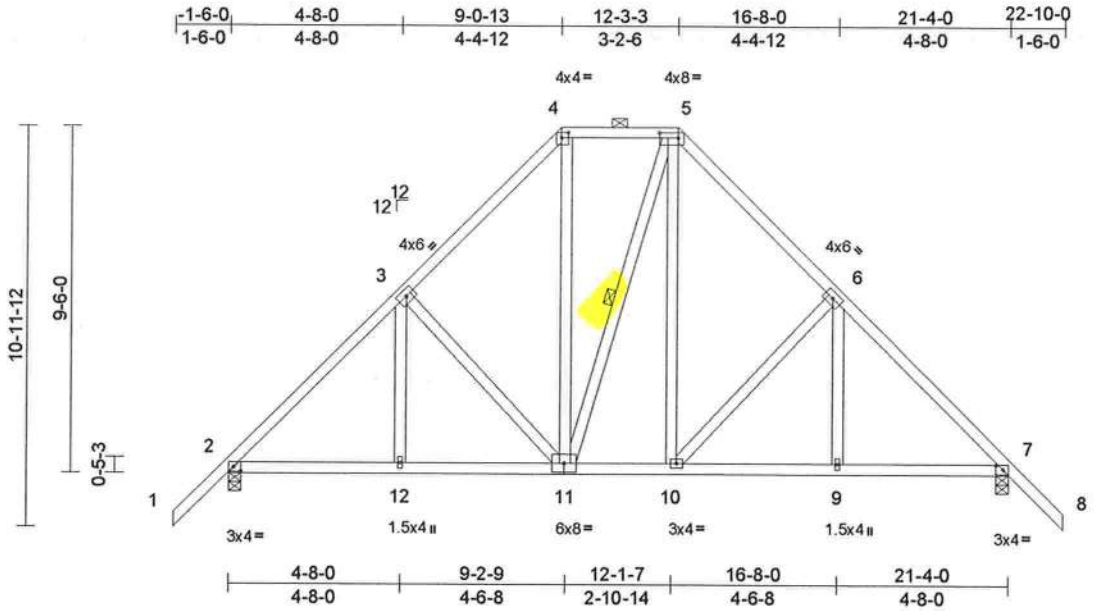

Scale = 1:63.3

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

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	0.22	Vert(LL)	-0.02	10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.05	9-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 154 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-7-12 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-11

REACTIONS (size) 2=0-4-0, 7=0-4-0
Max Horiz 2=-223 (LC 10)
Max Uplift 2=-36 (LC 12), 7=-36 (LC 12)
Max Grav 2=943 (LC 1), 7=943 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/64, 2-3=-1036/15, 3-4=-788/97, 4-5=-484/103, 5-6=-787/97, 6-7=-1036/20, 7-8=0/64
BOT CHORD 2-12=-8/735, 10-12=0/735, 9-10=0/672, 7-9=0/672
WEBS 3-11=-314/80, 4-11=-16/297, 5-11=-89/92, 5-10=-15/295, 6-10=-316/80, 3-12=0/194, 6-9=0/197

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 -1-6-0 to 9-0-13, Zone3 9-0-13 to 12-3-3, Zone1 12-3-3 to 22-10-0 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be SP No.2 .
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 2 and 36 lb uplift at joint 7.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	D19	Piggyback Base Structural Gable	1	1	T35560001
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

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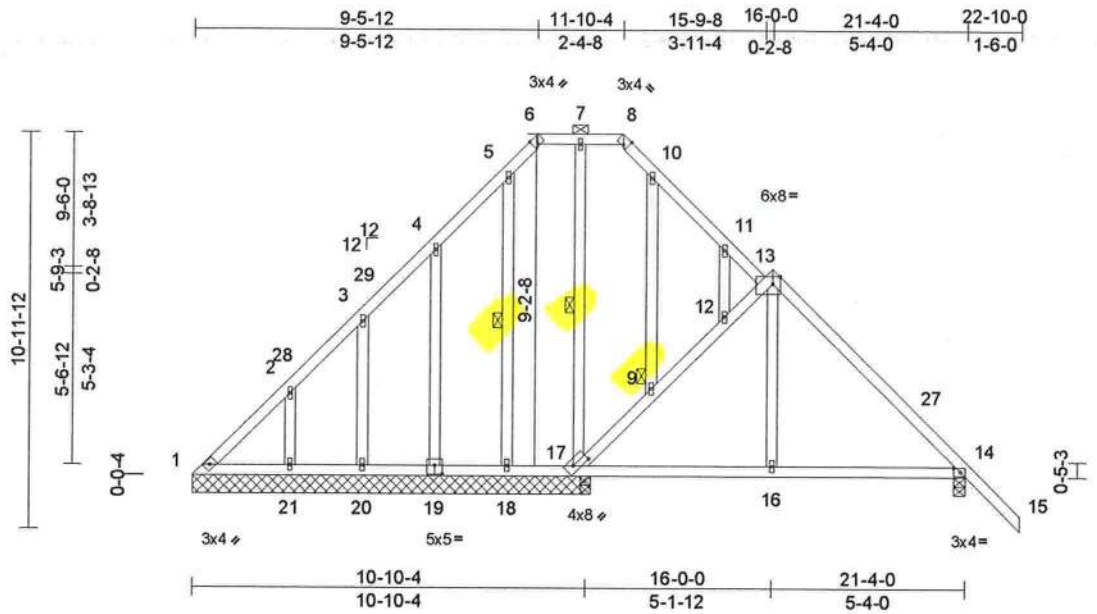

Scale = 1:64

Plate Offsets (X, Y): [6:0-1-8,Edge], [8:0-1-8,Edge], [13:0-2-8,Edge], [14:0-2-6,0-1-8], [17:0-5-4,0-2-0], [19:0-2-8,0-3-0]

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	0.30	Vert(LL)	-0.02	16-26	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	-0.04	16-26	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	14	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 153 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-8, 13-17.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 7-17, 5-18
JOINTS	1 Brace at Jt(s): 9

REACTIONS (size) 1=11-0-0, 14=0-4-0, 17=11-0-0, 18=11-0-0, 19=11-0-0, 20=11-0-0, 21=11-0-0
Max Horiz 1=-213 (LC 10)
Max Uplift 1=-50 (LC 10), 14=-36 (LC 12), 18=-43 (LC 11), 19=-60 (LC 12), 20=-50 (LC 12), 21=-35 (LC 12)
Max Grav 1=171 (LC 18), 14=549 (LC 24), 17=534 (LC 1), 18=91 (LC 23), 19=205 (LC 17), 20=150 (LC 17), 21=249 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	6-7=-89/123, 7-8=-89/122, 13-14=-478/39, 14-15=0/64, 9-17=-376/127, 9-12=-341/112, 12-13=-308/76, 8-10=-85/119, 10-11=-96/107, 11-13=-119/65, 1-2=-199/171, 2-3=-171/123, 3-4=-146/91, 4-5=-140/127, 5-6=-92/120
BOT CHORD	1-21=-97/195, 20-21=-97/195, 18-20=-97/195, 17-18=-97/195, 16-17=0/261, 14-16=0/266
WEBS	7-17=-164/0, 9-10=-50/20, 11-12=-41/47, 5-18=-90/42, 4-19=-149/122, 3-20=-127/81, 2-21=-166/99, 13-16=0/240

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 9-5-12, Zone3 9-5-12 to 15-9-8, Zone1 15-9-8 to 22-10-0 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
10) All bearings are assumed to be SP No.2 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 1, 43 lb uplift at joint 18, 60 lb uplift at joint 19, 50 lb uplift at joint 20, 35 lb uplift at joint 21 and 36 lb uplift at joint 14.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply		
0724-027ORIGINAL	GDR	Flat Girder	1	2	Job Reference (optional)	T35560002

Mayo Truss Company, Inc., Mayo, FL - 32066,

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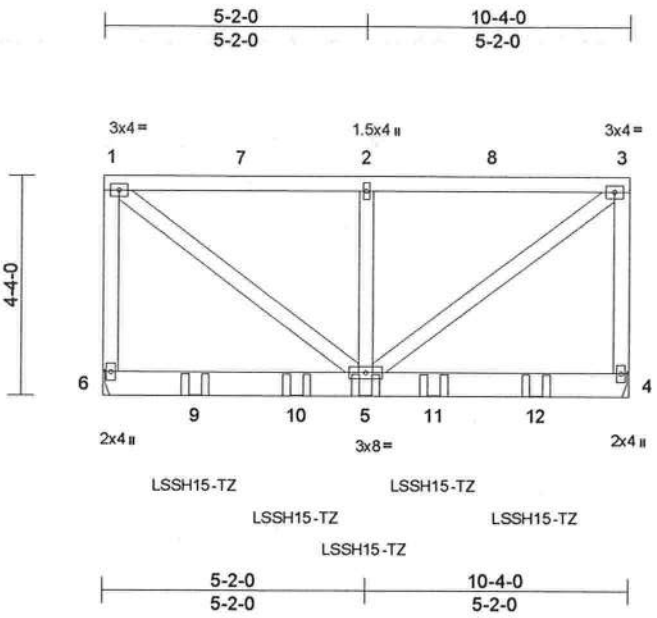


Scale = 1:45.5

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	0.16	Vert(LL)	0.02	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.03	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 146 lb	FT = 20%

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

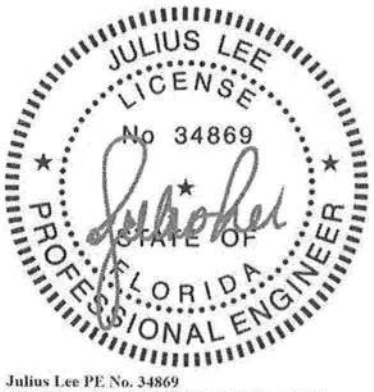
BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 4= Mechanical, 6= Mechanical
Max Horiz 6=111 (LC 7)
Max Uplift 4=-293 (LC 5), 6=-293 (LC 4)
Max Grav 4=1235 (LC 13), 6=1235 (LC 14)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-6=-947/240, 1-2=-1079/280, 2-3=-1079/280, 3-4=-947/241
BOT CHORD 5-6=-85/94, 4-5=-34/53
WEBS 1-5=-340/1349, 2-5=-340/89, 3-5=-340/1349

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 293 lb uplift at joint 6 and 293 lb uplift at joint 4.
10) Use MiTek LSSH15-TZ (With 6-10d HDG nails into Girder & 7-10d x 1-1/2 HDG nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-9-12 from the left end to 8-6-4 to connect truss(es) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-60, 4-6=-20
Concentrated Loads (lb)
Vert: 5=-325 (B), 9=-325 (B), 10=-325 (B), 11=-325 (B), 12=-325 (B)



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply		
0724-027ORIGINAL	M01	Monopitch	14	1	Job Reference (optional)	T35560003

Mayo Truss Company, Inc., Mayo, FL - 32066,

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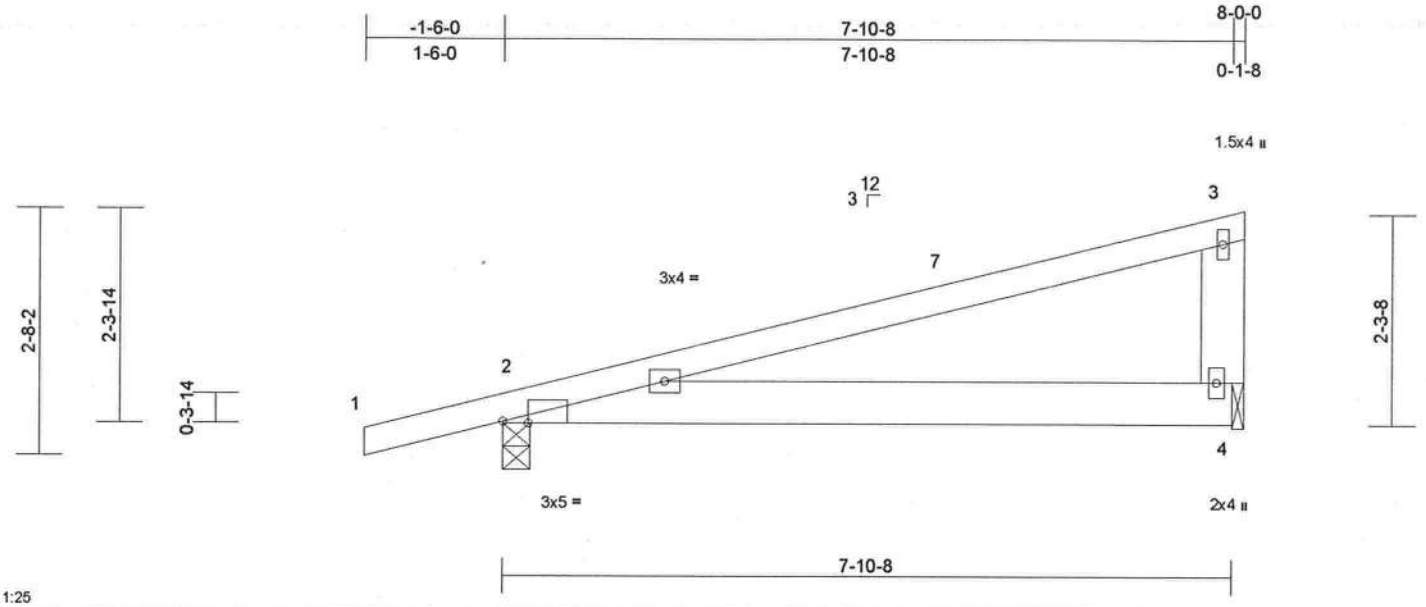

Scale = 1:25

Plate Offsets (X, Y): [2:0-3-4,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	0.48	Vert(LL)	0.07	4-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.43	Vert(CT)	-0.13	4-6	>708	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 37 lb	FT = 20%

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

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

REACTIONS (size) 2=0-3-8, 4=0-1-8
Max Horiz 2=61 (LC 12)
Max Uplift 2=-39 (LC 12), 4=-1 (LC 12)
Max Grav 2=414 (LC 1), 4=294 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/24, 2-3=-270/32
BOT CHORD 2-4=-22/250
WEBS 3-4=-166/172

NOTES
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-9-0, Zone1 1-9-0 to 7-9-4 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
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be SP No.2 .
6) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 2 and 1 lb uplift at joint 4.
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

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply		
0724-027ORIGINAL	M02	Monopitch	5	1	Job Reference (optional)	T35560004

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:43 Page: 1
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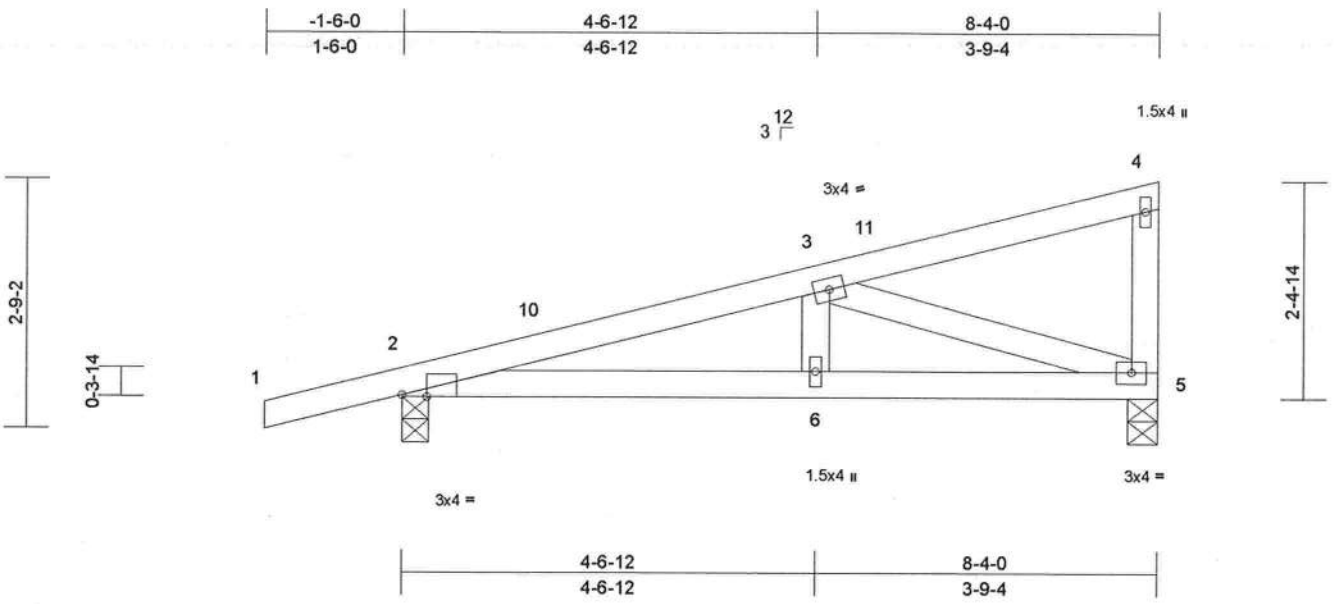

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Plate Offsets (X, Y): [2:0-3-4,Edge]

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	0.16	Vert(LL)	-0.02	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.04	6-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 37 lb	FT = 20%

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

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

REACTIONS (size) 2=0-3-8, 5=0-4-0
Max Horiz 2=63 (LC 11)
Max Uplift 2=-39 (LC 12)
Max Grav 2=426 (LC 1), 5=319 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-666/178, 3-4=-59/37, 4-5=-86/114
BOT CHORD 2-6=-301/633, 5-6=-301/633
WEBS 3-5=-665/294, 3-6=0/180

NOTES
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 8-2-4 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
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be SP No.2 .
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 2.
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

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply		
0724-027ORIGINAL	M03	Monopitch	1	1	Job Reference (optional)	T35560005

Mayo Truss Company, Inc., Mayo, FL - 32066,

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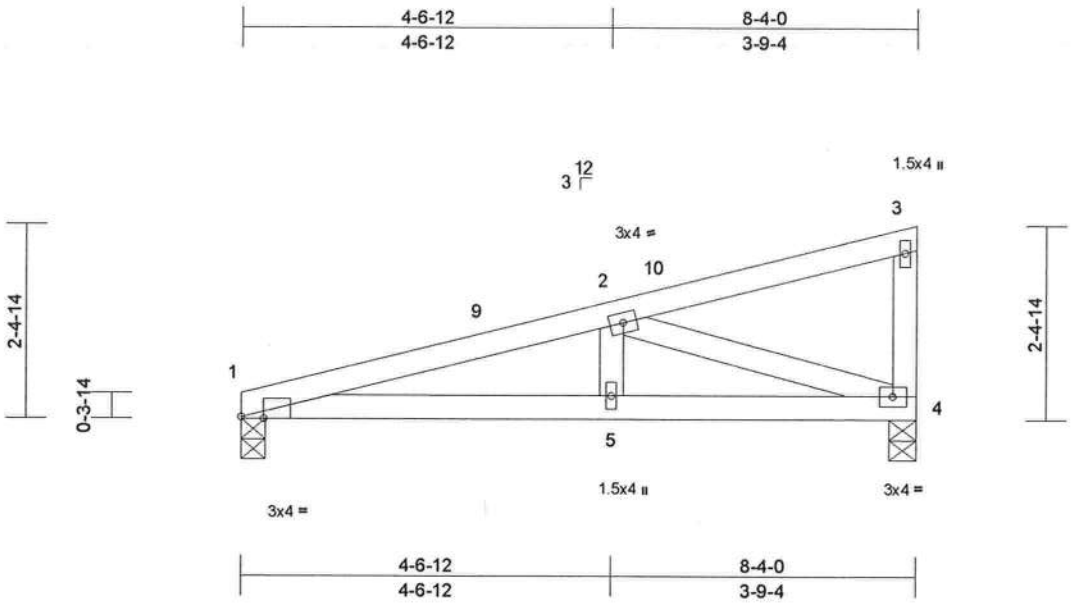

Scale = 1:28.6

Plate Offsets (X, Y): [1:0-3-4,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	0.17	Vert(LL)	0.03	5-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.28	Vert(CT)	-0.04	5-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 34 lb	FT = 20%

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

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

REACTIONS (size) 1=0-3-8, 4=0-4-0
Max Horiz 1=59 (LC 11)
Max Uplift 4=-1 (LC 12)
Max Grav 1=327 (LC 1), 4=327 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-703/268, 2-3=-59/37, 3-4=-84/113
BOT CHORD 1-5=-321/671, 4-5=-321/671
WEBS 2-4=-705/315, 2-5=0/184

NOTES
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 8-2-4 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
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be SP No.2 .
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 4.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply		
0724-027ORIGINAL	N01	Roof Special Supported Gable	1	1	Job Reference (optional)	T35560006

Mayo Truss Company, Inc., Mayo, FL - 32066,

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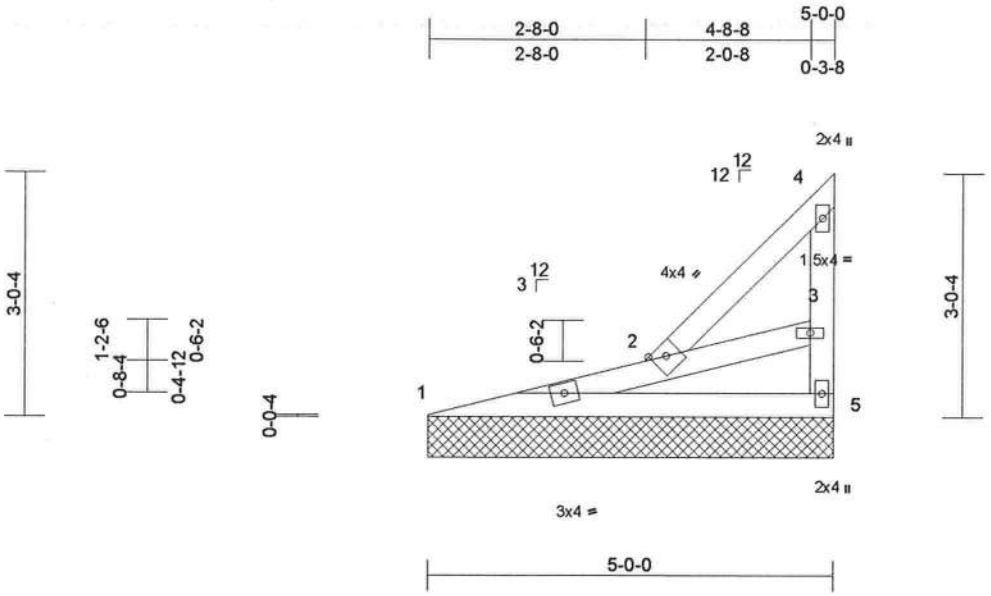

Scale = 1:28.5

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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.25	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MR							Weight: 21 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=5-0-0, 5=5-0-0
Max Horiz 1=78 (LC 9)
Max Uplift 5=-5 (LC 9)
Max Grav 1=194 (LC 1), 5=196 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 3-5=-121/227, 3-4=-87/169, 1-2=-500/281, 2-3=-151/119, 2-4=-119/69
BOT CHORD 1-5=-406/478

NOTES
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 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
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) 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) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) All bearings are assumed to be SP No.2 .
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 5.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply		
0724-027ORIGINAL	N02	Monopitch Supported Gable	1	1	Job Reference (optional)	T35560007

Mayo Truss Company, Inc., Mayo, FL - 32066,

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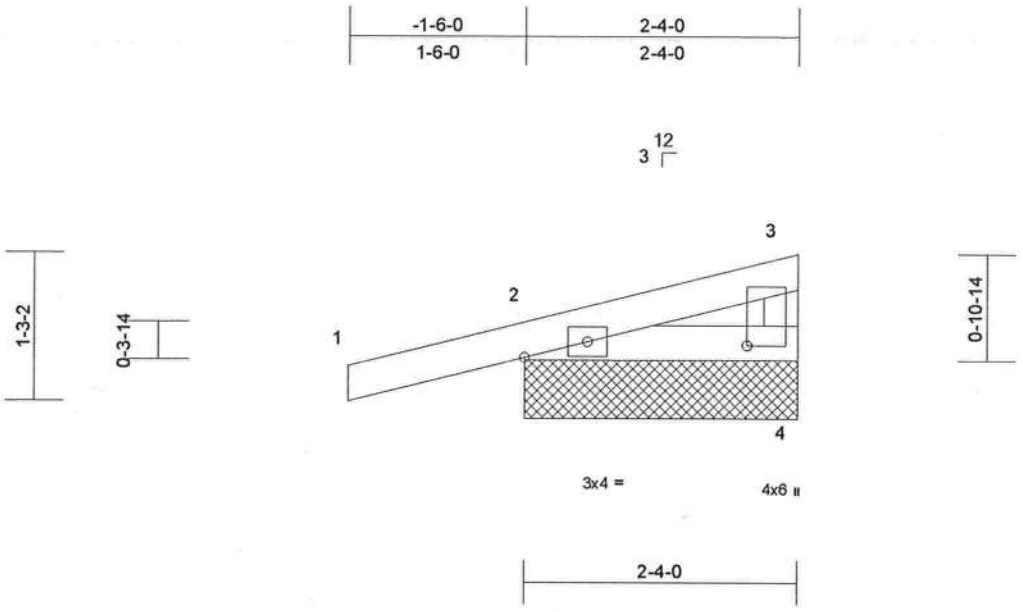

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Plate Offsets (X, Y): [4:0-1-4,1-10-12]

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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 10 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-4-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=2-4-0, 4=2-4-0, 5=2-4-0
Max Horiz 2=27 (LC 12), 5=27 (LC 12)
Max Uplift 2=-49 (LC 12), 5=-49 (LC 12)
Max Grav 2=208 (LC 1), 4=61 (LC 3), 5=208 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-80/17
BOT CHORD 2-4=-17/66
WEBS 3-4=-37/44

NOTES
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 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
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) 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) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) All bearings are assumed to be SP No.2 .
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 2 and 49 lb uplift at joint 2.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 5.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	PB01	Piggyback	1	1	Job Reference (optional) T35560008

Mayo Truss Company, Inc., Mayo, FL - 32066,

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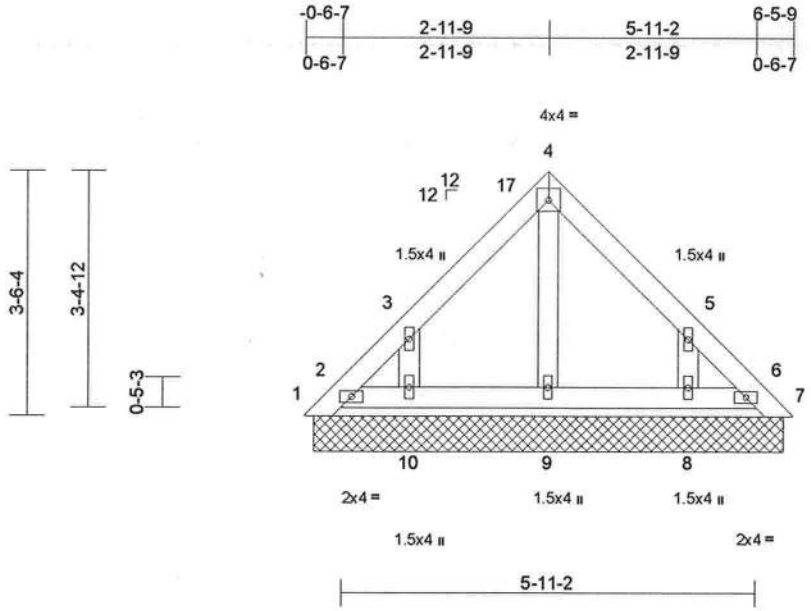

Scale = 1:33.2

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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 30 lb	FT = 20%

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

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) 1=6-9-0, 2=6-9-0, 6=6-9-0, 7=6-9-0, 8=6-9-0, 9=6-9-0, 10=6-9-0, 11=6-9-0
Max Horiz 1=-69 (LC 10)
Max Uplift 1=-46 (LC 10), 8=-43 (LC 12), 10=-53 (LC 12)
Max Grav 1=65 (LC 11), 2=54 (LC 17), 7=47 (LC 17), 8=181 (LC 18), 9=110 (LC 1), 10=177 (LC 17), 11=54 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-94/92, 2-3=-124/63, 3-4=-78/71, 4-5=-71/83, 5-6=-63/45, 6-7=-32/6
BOT CHORD 2-10=-34/68, 9-10=-34/68, 8-9=-34/68, 6-8=-34/68
WEBS 4-9=-68/0, 3-10=-153/246, 5-8=-152/169

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-7-9 to 3-7-9, Zone1 3-7-9 to 7-2-14 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) All bearings are assumed to be SP No.2 .
8) Bearing at joint(s) 2, 1, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 10, 43 lb uplift at joint 8 and 46 lb uplift at joint 1.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,202

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	PB02	Piggyback	33	1	T35560009
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

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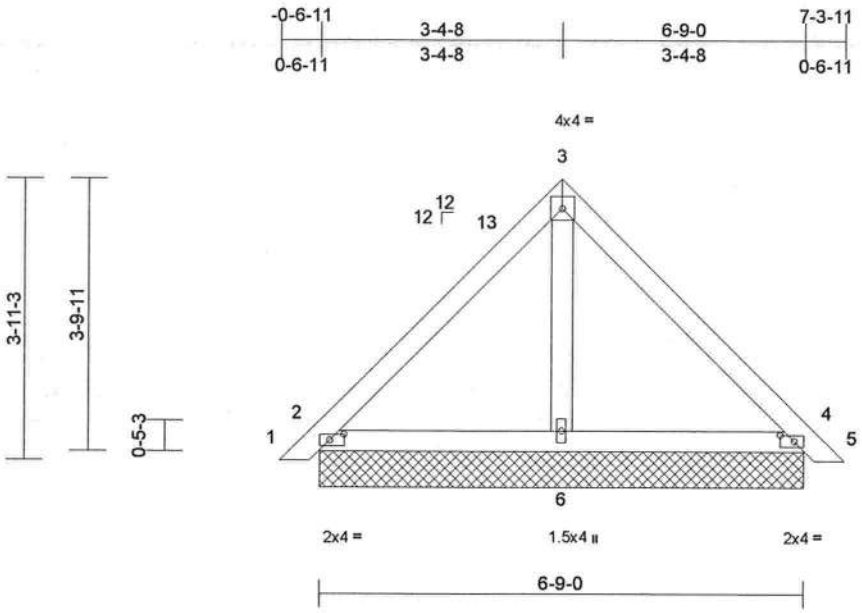

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Plate Offsets (X, Y): [2:0-2-6,0-1-0], [4:0-2-6,0-1-0]

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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.20	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 31 lb	FT = 20%

LUMBER

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

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=6-9-0, 4=6-9-0, 6=6-9-0, 7=6-9-0, 10=6-9-0
Max Horiz 2=78 (LC 11), 7=78 (LC 11)
Max Uplift 2=-27 (LC 12), 4=-27 (LC 12), 7=-27 (LC 12), 10=-27 (LC 12)
Max Grav 2=199 (LC 1), 4=199 (LC 1), 6=184 (LC 1), 7=199 (LC 1), 10=199 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/15, 2-3=-156/104, 3-4=-154/122, 4-5=0/15
BOT CHORD	2-6=-70/82, 4-6=-43/73
WEBS	3-6=-51/10

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-2-8 to 3-2-8, Zone1 3-2-8 to 7-7-15 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be SP No.2 .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 2, 27 lb uplift at joint 4, 27 lb uplift at joint 2 and 27 lb uplift at joint 4.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	PB03	Piggyback	1	1	Job Reference (optional) T35560010

Mayo Truss Company, Inc., Mayo, FL - 32066,

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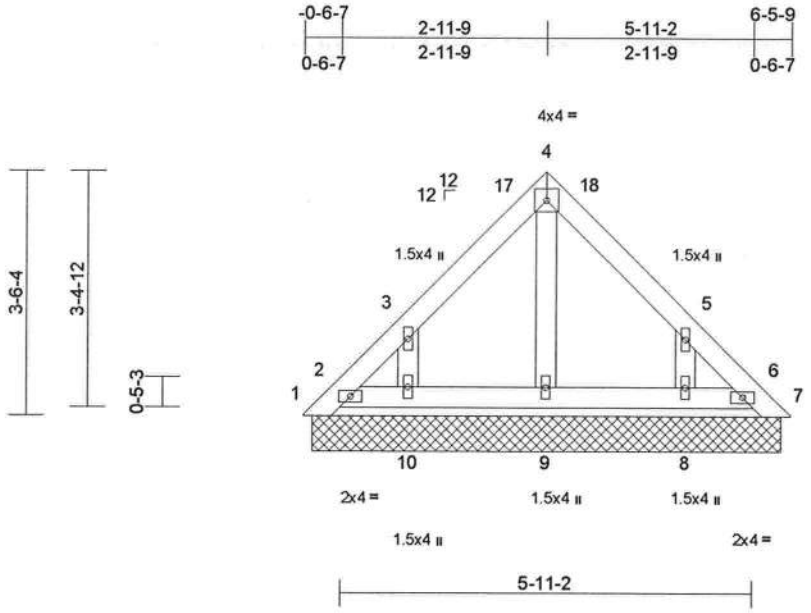

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 30 lb	FT = 20%

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

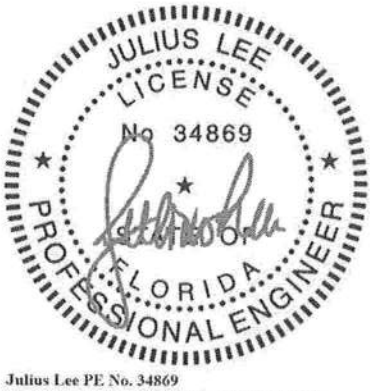
BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 1=6-9-0, 2=6-9-0, 6=6-9-0, 7=6-9-0, 8=6-9-0, 9=6-9-0, 10=6-9-0, 11=6-9-0
Max Horiz 1=-69 (LC 10)
Max Uplift 1=-46 (LC 10), 8=-43 (LC 12), 10=-53 (LC 12)
Max Grav 1=65 (LC 11), 2=55 (LC 17), 7=48 (LC 17), 8=180 (LC 18), 9=110 (LC 1), 10=176 (LC 17), 11=55 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-94/92, 2-3=-92/63, 3-4=-78/102, 4-5=-71/94, 5-6=-97/44, 6-7=-32/6
BOT CHORD 2-10=-34/102, 9-10=-34/102, 8-9=-34/102, 6-8=-34/102
WEBS 4-9=-68/0, 3-10=-152/244, 5-8=-151/237

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-7-9 to 3-7-9, Zone1 3-7-9 to 3-11-3, Zone3 3-11-3 to 7-2-14 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be SP No.2 .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 10, 43 lb uplift at joint 8 and 46 lb uplift at joint 1.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	PB04	Piggyback	1	1	T35560011
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:44 Page: 1
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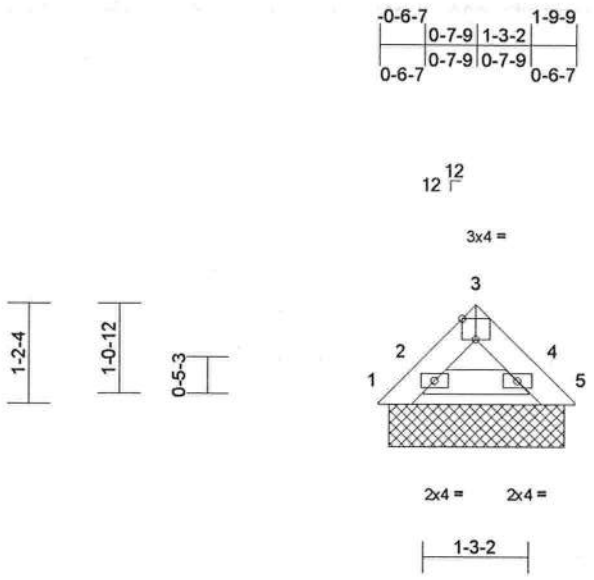

Scale = 1:27.5

Plate Offsets (X, Y): [3:0-2-0,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	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 7 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 3-2-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=2-1-0, 2=2-1-0, 5=2-1-0, 6=2-1-0
Max Horiz 1=-20 (LC 10)
Max Uplift 1=-20 (LC 10)
Max Grav 1=10 (LC 11), 2=119 (LC 17), 5=62 (LC 1), 6=119 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-20/44, 2-3=-36/26, 3-4=-39/16, 4-5=-42/26
BOT CHORD 2-4=-6/36

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 0-7-9 to 1-7-3, Zone3 1-7-3 to 2-6-14 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be SP No.2 .
10) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 1.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	PB05	Piggyback	30	1	Job Reference (optional) T35560012

Mayo Truss Company, Inc., Mayo, FL - 32066,

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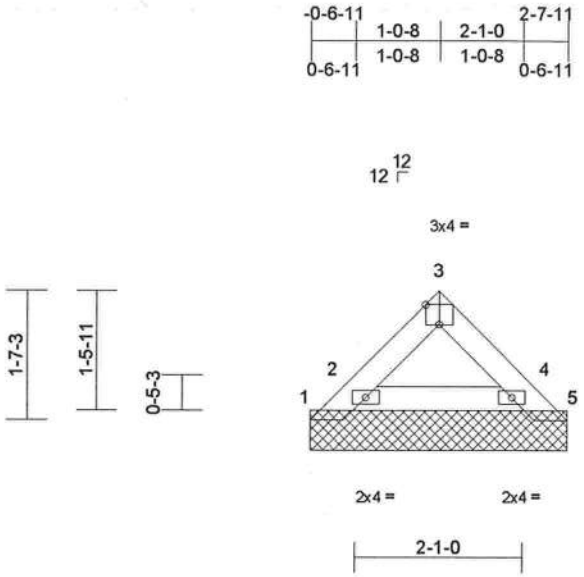

Scale = 1:28.7

Plate Offsets (X, Y): [3:0-2-0,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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 10 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 3-2-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=3-2-6, 2=3-2-6, 4=3-2-6, 5=3-2-6, 6=3-2-6
Max Horiz 1=-29 (LC 10)
Max Uplift 1=-55 (LC 17)
Max Grav 1=9 (LC 9), 2=188 (LC 17), 5=93 (LC 1), 6=188 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-20/74, 2-3=-61/40, 3-4=-67/24, 4-5=-63/35
BOT CHORD 2-4=-17/48

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 0-2-8 to 1-7-3, Zone3 1-7-3 to 2-11-15 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be SP No.2 .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 1.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	PB06	Piggyback	1	1	T35560013
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:44 Page: 1
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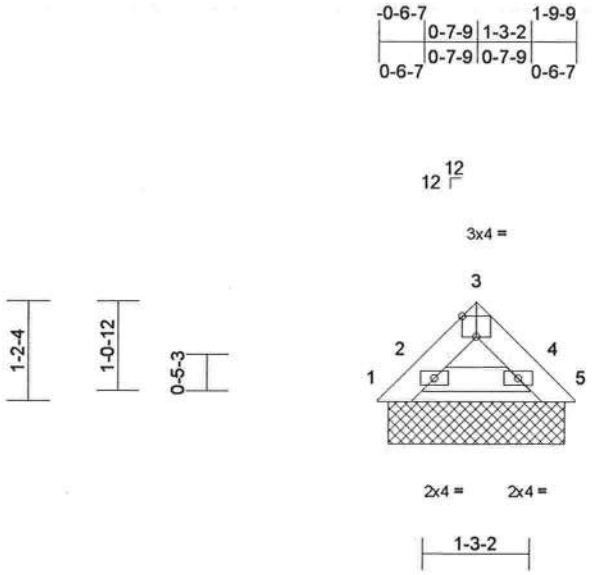

Scale = 1:27.5

Plate Offsets (X, Y): [3:0-2-0,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	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 7 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 3-2-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=2-1-0, 2=2-1-0, 5=2-1-0, 6=2-1-0
Max Horiz 1=-20 (LC 10)
Max Uplift 1=-20 (LC 10)
Max Grav 1=10 (LC 11), 2=119 (LC 17), 5=62 (LC 1), 6=119 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-20/44, 2-3=-36/26, 3-4=-39/16, 4-5=-42/26
BOT CHORD 2-4=-6/36

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone1 0-7-9 to 1-7-3, Zone3 1-7-3 to 2-6-14 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be SP No.2 .
10) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 1.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

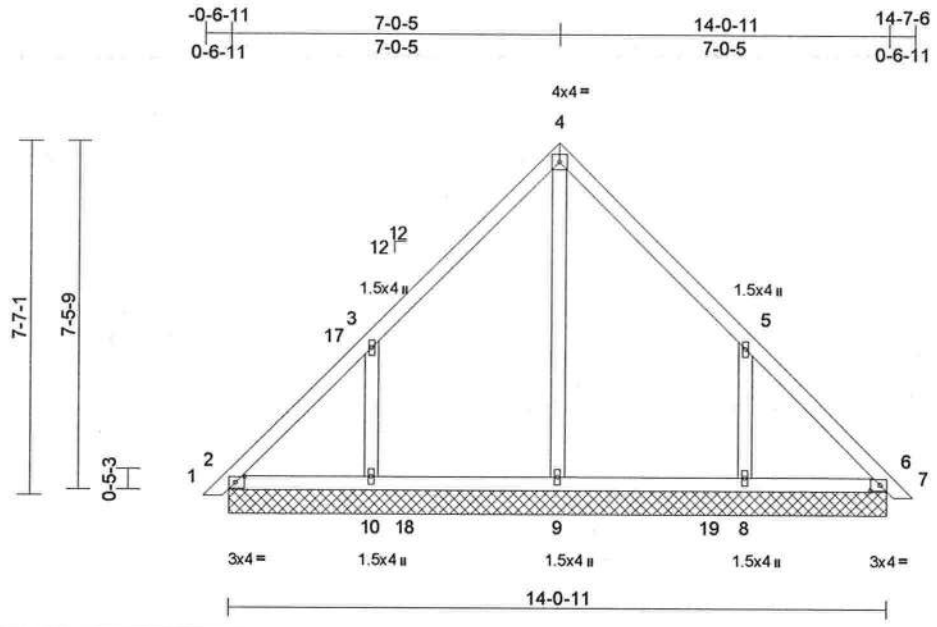
November 15,202

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply		
0724-027ORIGINAL	PB07	Piggyback	14	1	Job Reference (optional)	T35560014

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:44 ID:EfgNW0tjm3JMILQb06PjdjyvA3y-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:49.5

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

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	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 71 lb	FT = 20%

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

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=14-0-11, 6=14-0-11, 8=14-0-11, 9=14-0-11, 10=14-0-11, 11=14-0-11, 14=14-0-11
Max Horiz 2=155 (LC 11), 11=155 (LC 11)
Max Uplift 2=-2 (LC 8), 8=-103 (LC 12), 10=-103 (LC 12), 11=-2 (LC 8)
Max Grav 2=194 (LC 18), 6=174 (LC 17), 8=444 (LC 18), 9=332 (LC 17), 10=445 (LC 17), 11=194 (LC 18), 14=174 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/15, 2-3=-153/116, 3-4=-168/113, 4-5=-155/126, 5-6=-125/79, 6-7=0/15
BOT CHORD 2-10=-53/93, 9-10=-53/93, 8-9=-53/93, 6-8=-53/93
WEBS 4-9=-132/0, 3-10=-283/243, 5-8=-282/184

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-2-8 to 3-2-8, Zone1 3-2-8 to 14-11-9 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) All bearings are assumed to be SP No.2 .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 2, 103 lb uplift at joint 10, 103 lb uplift at joint 8 and 2 lb uplift at joint 2.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply		
0724-027ORIGINAL	PB7A	Piggyback	1	1	Job Reference (optional)	T35560015

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:43
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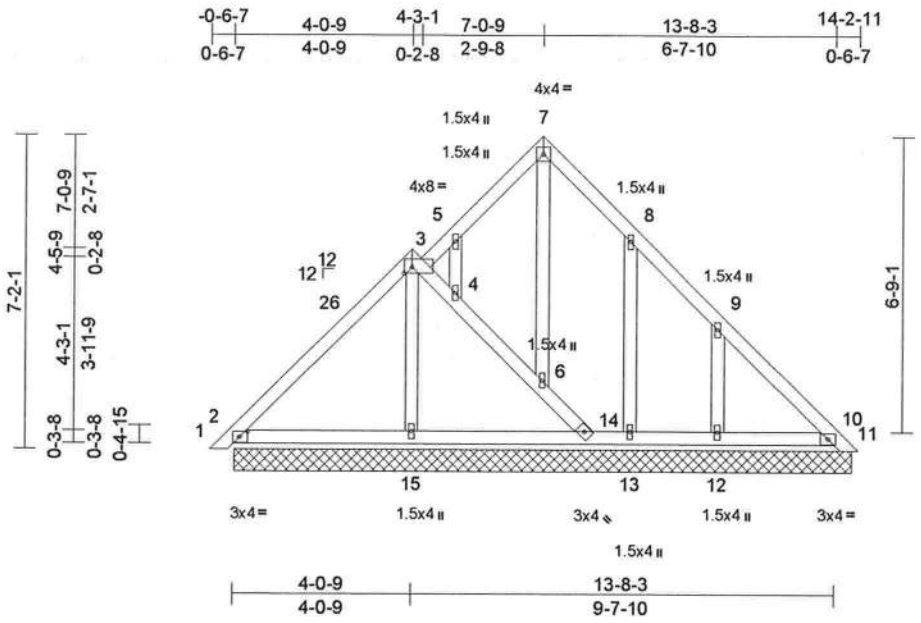


Scale = 1:52.8

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

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	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 86 lb	FT = 20%

LUMBER

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

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=14-0-11, 10=14-0-11, 11=14-0-11, 12=14-0-11, 13=14-0-11, 14=14-0-11, 15=14-0-11, 16=14-0-11, 19=14-0-11, 25=14-0-11
Max Horiz 2=147 (LC 11), 16=147 (LC 11)
Max Uplift 2=-3 (LC 12), 11=-122 (LC 18), 12=-58 (LC 12), 13=-69 (LC 12), 16=-3 (LC 12)
Max Grav 2=229 (LC 1), 10=315 (LC 1), 11=47 (LC 12), 12=209 (LC 18), 13=186 (LC 18), 14=1 (LC 3), 15=357 (LC 17), 16=229 (LC 1), 19=315 (LC 1), 25=1 (LC 3)

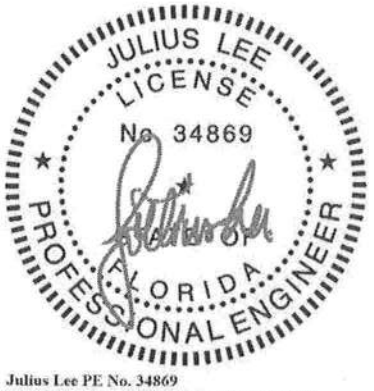
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/14, 2-3=-187/44, 3-4=-34/109, 4-6=-78/134, 6-14=-90/114, 3-5=-131/13, 5-7=-137/61, 7-8=-152/78, 8-9=-163/10, 9-10=-186/55, 10-11=-47/104
BOT CHORD	2-15=-61/119, 14-15=-59/130, 13-14=-52/144, 12-13=-52/144, 10-12=-52/144
WEBS	6-7=-34/61, 4-5=-67/52, 8-13=-140/89, 9-12=-157/111, 3-15=-229/27

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-2-8 to 3-2-8, Zone1 3-2-8 to 14-6-10 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 1.5x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
10) All bearings are assumed to be SP No.2 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 2, 122 lb uplift at joint 11, 69 lb uplift at joint 13, 58 lb uplift at joint 12 and 3 lb uplift at joint 2.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

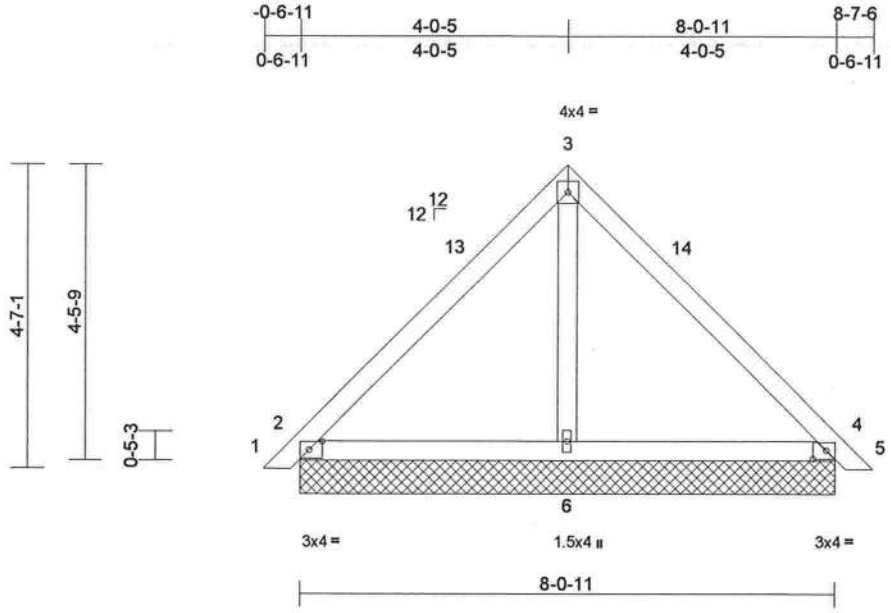
November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
0724-027ORIGINAL	PB08	Piggyback	2	1	T35560016
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:44 Page: 1
ID:K3wb2jklBZ2tccTyrhe3BUyvA0G-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:34.8

Plate Offsets (X, Y): [2:0-2-6,0-1-8], [4:0-2-6,0-1-8]

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	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.28	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 37 lb	FT = 20%

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

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=8-0-11, 4=8-0-11, 6=8-0-11, 7=8-0-11, 10=8-0-11
Max Horiz 2=92 (LC 11), 7=92 (LC 11)
Max Uplift 2=-34 (LC 12), 4=-34 (LC 12), 7=-34 (LC 12), 10=-34 (LC 12)
Max Grav 2=241 (LC 1), 4=241 (LC 1), 6=205 (LC 1), 7=241 (LC 1), 10=241 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/15, 2-3=-197/179, 3-4=-196/154, 4-5=0/15
BOT CHORD 2-6=-63/108, 4-6=-76/94
WEBS 3-6=-91/27

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-2-8 to 3-2-8, Zone1 3-2-8 to 4-7-1, Zone3 4-7-1 to 8-11-10 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be SP No.2 .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 2, 34 lb uplift at joint 4, 34 lb uplift at joint 2 and 34 lb uplift at joint 4.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,202

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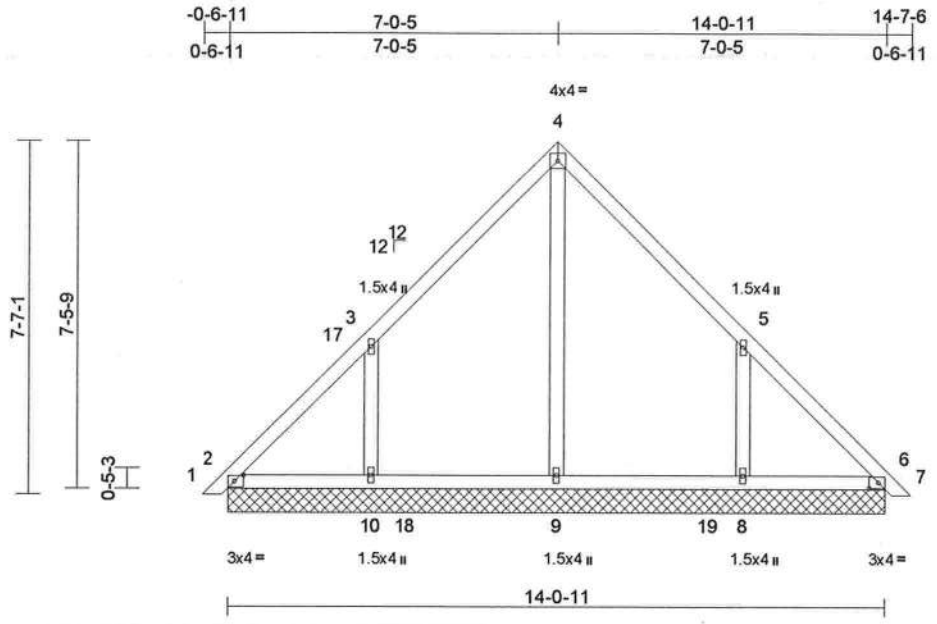
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply		
0724-027ORIGINAL	PB09	Piggyback	2	2	Job Reference (optional)	T35560017

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Oct 31 2024 Print: 8.730 S Oct 31 2024 MiTek Industries, Inc. Thu Nov 14 10:04:44 Page: 1
ID:aVEGcwu11ZbTa7fLqnM1xEyv9zT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:49.5

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

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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 143 lb	FT = 20%

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

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=14-0-11, 6=14-0-11, 8=14-0-11, 9=14-0-11, 10=14-0-11, 11=14-0-11, 14=14-0-11
Max Horiz 2=155 (LC 11), 11=155 (LC 11)
Max Uplift 2=-2 (LC 8), 8=-103 (LC 12), 10=-103 (LC 12), 11=-2 (LC 8)
Max Grav 2=193 (LC 18), 6=173 (LC 17), 8=444 (LC 18), 9=332 (LC 17), 10=445 (LC 17), 11=193 (LC 18), 14=173 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/15, 2-3=-152/116, 3-4=-167/114, 4-5=-155/127, 5-6=-125/79, 6-7=0/15
BOT CHORD 2-10=-57/92, 9-10=-53/92, 8-9=-53/92, 6-8=-53/92
WEBS 4-9=-133/0, 3-10=-283/243, 5-8=-282/184

NOTES
1) 2-ply truss to be connected together as follows:
Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-2-8 to 3-2-8, Zone1 3-2-8 to 14-11-9 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
5) 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.
6) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 4-0-0 oc.
9) 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, with BCDL = 10.0psf.
11) All bearings are assumed to be SP No.2 .
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 2, 103 lb uplift at joint 10, 103 lb uplift at joint 8 and 2 lb uplift at joint 2.
13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

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Date:

November 15,2024

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply		
0724-027ORIGINAL	PB10	Piggyback	1	2	Job Reference (optional)	T35560018

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Dec 14 2023 Print: 8.730 S Dec 14 2023 MiTek Industries, Inc. Fri Nov 15 07:54:42 Page: 1
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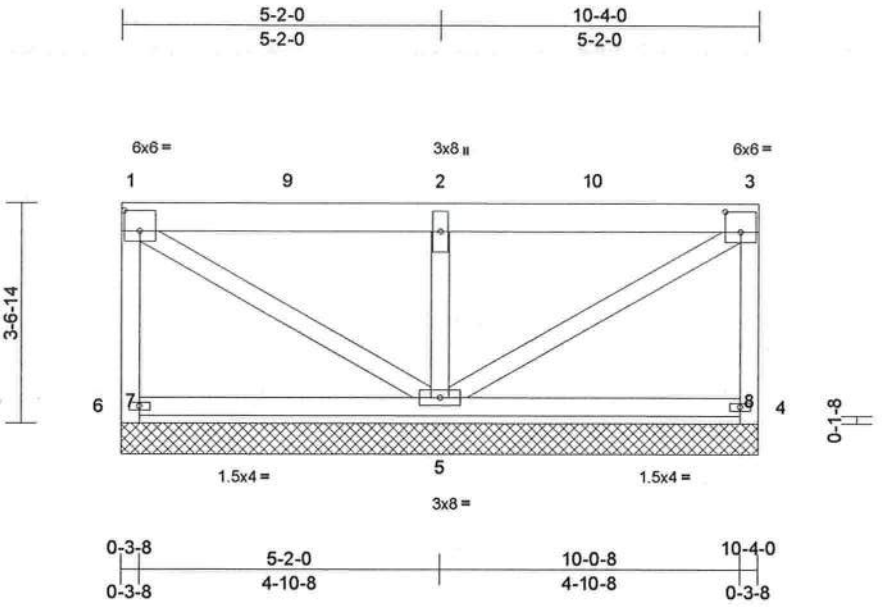


Scale = 1:37.5

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

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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 136 lb	FT = 20%

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

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

REACTIONS All bearings 10-4-0.
(lb) - Max Horiz 7=-93 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 4, 5, 6
Max Grav All reactions 250 (lb) or less at joint (s) 4, 6 except 5=498 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-358/355

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C 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
4) 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.
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 4-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * 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.
12) Bearing at joint(s) 7, 8, 6, 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 6, 14 lb uplift at joint 4 and 22 lb uplift at joint 5.
14) 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.
15) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

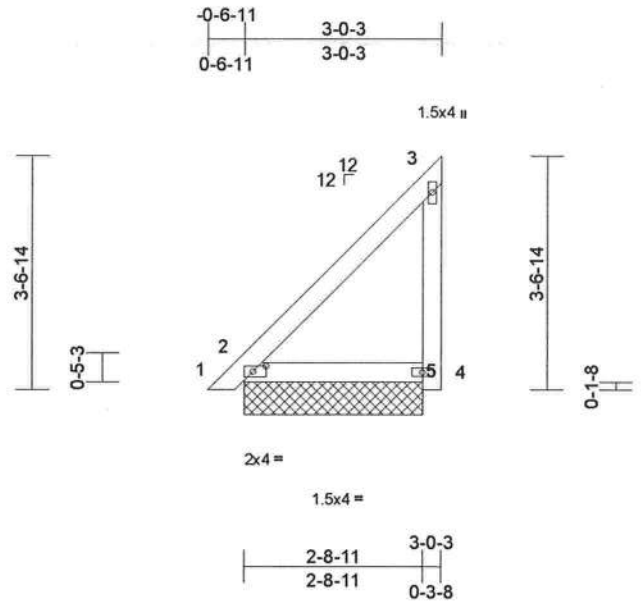
LOAD CASE(S) Standard

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 15,2024

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply		
0724-027ORIGINAL	PB11	Piggyback	5	1	Job Reference (optional)	T35560019



Scale = 1:35.3

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

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	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 16 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-6-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=2-8-11, 4=2-8-11, 5=2-8-11, 6=2-8-11
Max Horiz 2=98 (LC 11), 6=98 (LC 11)
Max Uplift 2=-3 (LC 12), 4=-36 (LC 9), 6=-3 (LC 12)
Max Grav 2=140 (LC 18), 4=134 (LC 17), 6=140 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/15, 2-3=-125/101, 4-5=0/0, 3-4=-114/115
BOT CHORD 2-4=-86/76

NOTES
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 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
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) 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) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) All bearings are assumed to be SP No.2 .
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 2, 36 lb uplift at joint 4 and 3 lb uplift at joint 2.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Julius Lee PE No. 34869
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Date:

November 15,202

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