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

RE: 1665-A - McLeod Addition

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

Site Information:

Customer Info: Ponderosa Complete Project Name: McLeod Addition Model: .
Lot/Block: . Subdivision: .
Address: 751 SW Jacobs Ct., .
City: Fort White 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 8.8
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 5 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
1	T35223009	G1	10/9/24
2	T35223010	M1	10/9/24
3	T35223011	M2	10/9/24
4	T35223012	T1	10/9/24
5	T35223013	T2	10/9/24

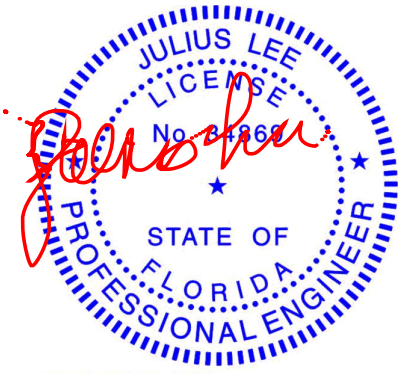
Review for Code Compliance
Universal Engineering Science

PX2707 10/24/2024
Examiner-License No.

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by 19 Lumber, Inc..

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

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.



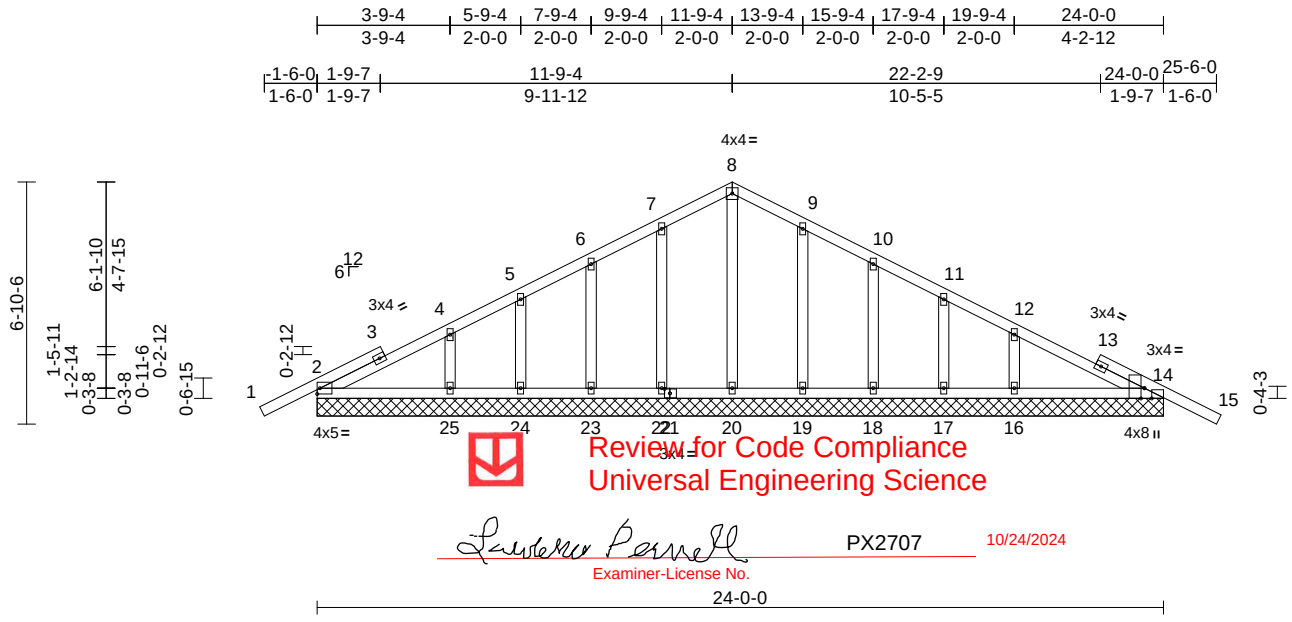
Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 9,2024

Job	Truss	Truss Type	Qty	Ply	McLeod Addition	T35223009
1665-A	G1	Common Supported Gable	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680, Run: 8.82 S Sep 25 2024 Print: 8.820 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 08 15:04:52 Page: 1

ID:ARu_YC8_NP5MGQ8ErKEPaqyXUPj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Review for Code Compliance
Universal Engineering Science

PX2707 10/24/2024
Examiner-License No.

Scale = 1:59.1

Plate Offsets (X, Y): [14:0-3-8,Edge], [14:0-2-8,Edge], [21:0-1-13,0-1-8]

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	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 131 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 6-0-0 oc bracing.

REACTIONS (size) 2=24-0-0, 14=24-0-0, 16=24-0-0, 17=24-0-0, 18=24-0-0, 19=24-0-0, 20=24-0-0, 22=24-0-0, 23=24-0-0, 24=24-0-0, 25=24-0-0, 26=24-0-0, 29=24-0-0
Max Horiz 2=-115 (LC 13), 26=-115 (LC 13)
Max Uplift 2=-29 (LC 12), 14=-55 (LC 13), 16=-90 (LC 13), 17=-43 (LC 13), 18=-61 (LC 13), 19=-57 (LC 13), 22=-58 (LC 12), 23=-59 (LC 12), 24=-46 (LC 12), 25=-86 (LC 12), 26=-29 (LC 12), 29=-55 (LC 13)
Max Grav 2=242 (LC 25), 14=251 (LC 1), 16=302 (LC 1), 17=102 (LC 26), 18=173 (LC 1), 19=166 (LC 26), 20=177 (LC 22), 22=167 (LC 25), 23=167 (LC 1), 24=124 (LC 25), 25=260 (LC 25), 26=242 (LC 25), 29=251 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/42, 2-4=-111/89, 4-5=-49/77, 5-6=-27/96, 6-7=-47/137, 7-8=-65/187, 8-9=-65/187, 9-10=-47/137, 10-11=-27/84, 11-12=-25/40, 12-14=-68/68, 14-15=0/42
BOT CHORD 2-25=-45/128, 24-25=-45/128, 23-24=-45/128, 22-23=-45/128, 20-22=-45/128, 19-20=-45/128, 18-19=-45/128, 17-18=-45/128, 16-17=-45/128, 14-16=-45/128
WEBS 8-20=-137/4, 7-22=-128/94, 6-23=-123/99, 5-24=-98/85, 4-25=-185/132, 9-19=-128/93, 10-18=-126/99, 11-17=-88/83, 12-16=-205/135

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=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone 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
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 2x4 (||) 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 29 lb uplift at joint 2, 55 lb uplift at joint 14, 58 lb uplift at joint 22, 59 lb uplift at joint 23, 46 lb uplift at joint 24, 86 lb uplift at joint 25, 57 lb uplift at joint 19, 61 lb uplift at joint 18, 43 lb uplift at joint 17, 90 lb uplift at joint 16, 29 lb uplift at joint 2 and 55 lb uplift at joint 14.

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:

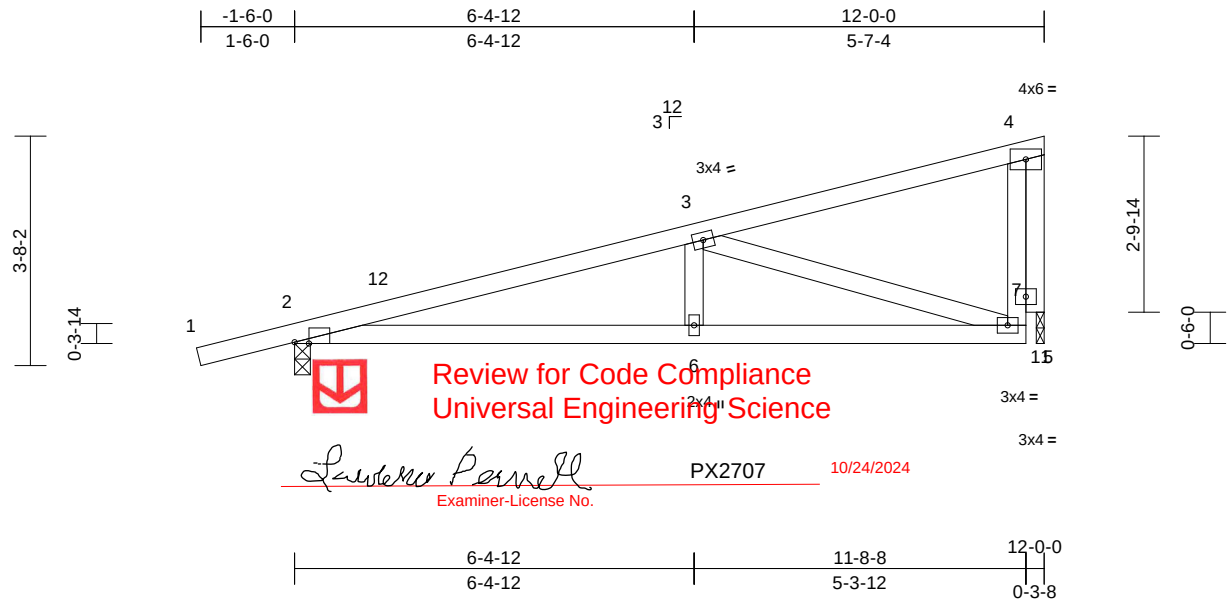
October 9,2024

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

Job	Truss	Truss Type	Qty	Ply	McLeod Addition	T35223010
1665-A	M1	Monopitch	12	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680, Run: 8.82 S Sep 25 2024 Print: 8.820 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 08 15:04:53 Page: 1

ID:AdJirmX?OkgbebkQM7pR04yXUQW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Review for Code Compliance
Universal Engineering Science

PX2707 10/24/2024
Examiner-License No.

Scale = 1:36.9

Plate Offsets (X, Y): [2:0-2-12,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	0.37	Vert(LL)	0.06	6-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.12	6-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.02	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 55 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

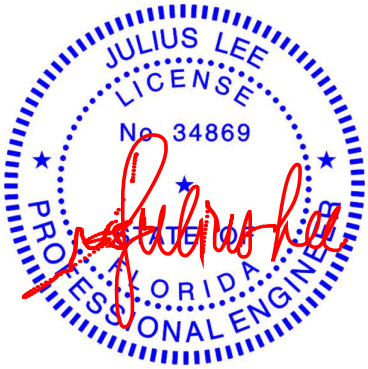
BRACING
TOP CHORD Structural wood sheathing directly applied or 5-2-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-0, 11=0-1-8
Max Horiz 2=124 (LC 8)
Max Uplift 2=-165 (LC 8), 11=-115 (LC 12)
Max Grav 2=575 (LC 1), 11=442 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-1062/247, 3-4=-130/10, 5-7=-70/333, 4-7=-70/333
BOT CHORD 2-6=-329/1007, 5-6=-329/1007
WEBS 3-6=0/256, 3-5=-968/308, 4-11=-448/144

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=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-7 to 1-5-9, Zone1 1-5-9 to 11-6-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be SP No.2 .
7) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 165 lb uplift at joint 2 and 115 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:

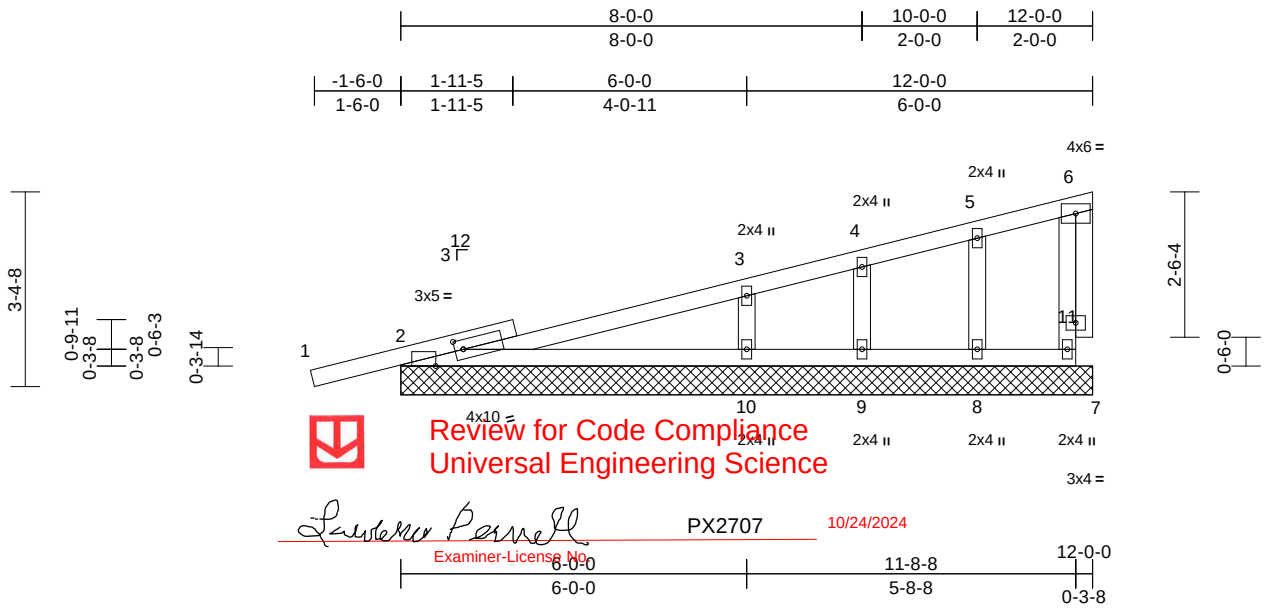
October 9,2024

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

Job	Truss	Truss Type	Qty	Ply	McLeod Addition	
1665-A	M2	Monopitch Supported Gable	1	1	Job Reference (optional)	T35223011

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.82 S Sep 25 2024 Print: 8.820 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 08 15:04:53
ID:6HztqGlvwa3vQWh4zcfuH4yXUQD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Review for Code Compliance
Universal Engineering Science

Examiner-License No. PX2707 10/24/2024

Scale = 1:35.7

Plate Offsets (X, Y): [2:0-1-12,0-2-0], [2:0-5-12,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	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 53 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 10-0-0 oc bracing.

REACTIONS (size) 2=12-0-0, 7=12-0-0, 8=12-0-0, 9=12-0-0, 10=12-0-0, 12=12-0-0
Max Horiz 2=125 (LC 9), 12=125 (LC 9)
Max Uplift 2=-157 (LC 8), 7=-14 (LC 9), 8=-55 (LC 12), 9=-54 (LC 1), 10=-150 (LC 12), 12=-157 (LC 8)
Max Grav 2=405 (LC 1), 7=44 (LC 1), 8=213 (LC 1), 9=17 (LC 12), 10=555 (LC 1), 12=405 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-191/100, 3-4=-100/59, 4-5=-91/70, 5-6=-50/53, 6-7=-39/54
BOT CHORD 2-10=-58/59, 9-10=-44/59, 8-9=-44/59, 7-8=-44/59
WEBS 5-8=-148/166, 4-9=0/20, 3-10=-350/365

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=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone 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
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 157 lb uplift at joint 2, 14 lb uplift at joint 7, 55 lb uplift at joint 8, 54 lb uplift at joint 9, 150 lb uplift at joint 10 and 157 lb uplift at joint 2.

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:

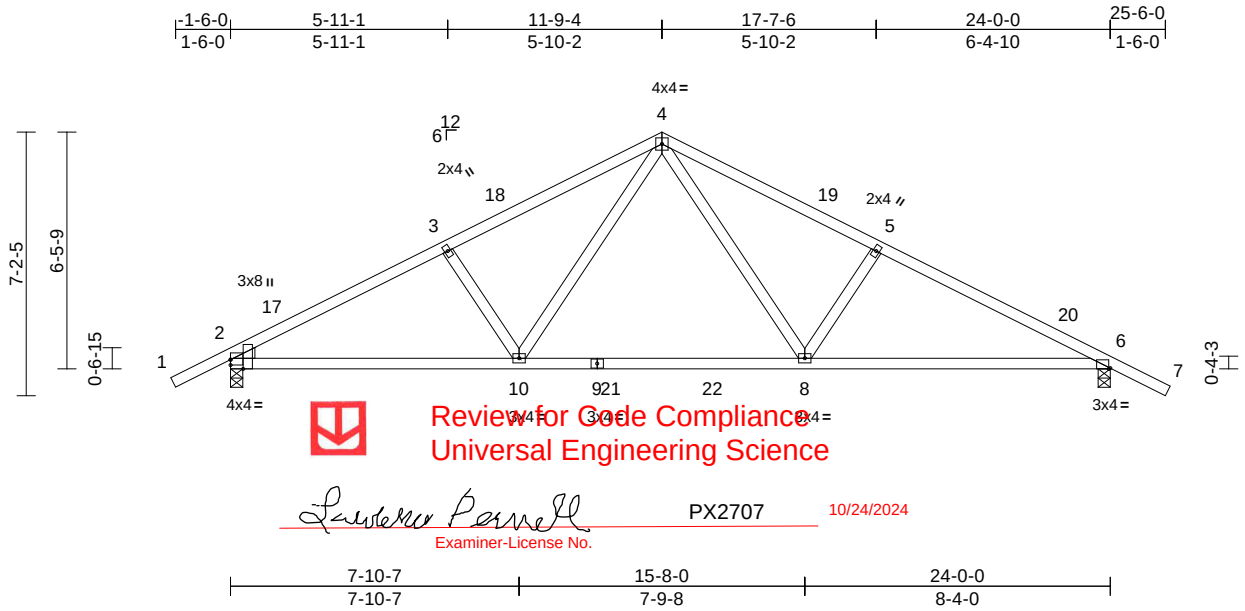
October 9,2024

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

Job	Truss	Truss Type	Qty	Ply	McLeod Addition	T35223012
1665-A	T1	Common	10	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.82 S Sep 25 2024 Print: 8.820 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 08 15:04:53
ID:TVICSn0jkLrn3uNJFE22AjyXUPt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



PX2707 10/24/2024
Examiner-License No.

Scale = 1:62.1

Plate Offsets (X, Y): [2:Edge,0-1-12], [2:0-3-0,Edge], [6:0-0-8,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	0.45	Vert(LL)	-0.15	8-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.25	8-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 113 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
WEDGE Left: 2x4 SP No.2

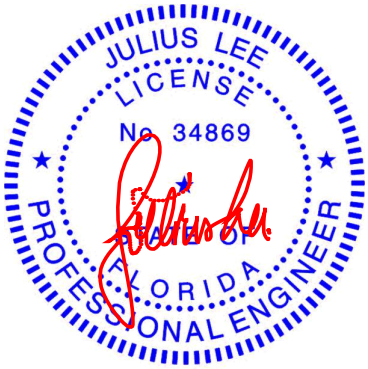
BRACING
TOP CHORD Structural wood sheathing directly applied or 3-11-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-4-0, 6=0-4-0
Max Horiz 2=-120 (LC 13)
Max Uplift 2=-195 (LC 12), 6=-199 (LC 13)
Max Grav 2=1119 (LC 2), 6=1119 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/42, 2-3=-1696/267, 3-4=-1554/271, 4-5=-1630/285, 5-6=-1778/281, 6-7=0/42
BOT CHORD 2-10=-249/1468, 8-10=-73/1014, 6-8=-159/1560
WEBS 4-8=-135/711, 5-8=-374/223, 4-10=-119/603, 3-10=-325/210

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=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-13 to 1-5-3, Zone1 1-5-3 to 11-9-4, Zone2 11-9-4 to 16-0-2, Zone1 16-0-2 to 25-6-13 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) All bearings are assumed to be SP No.2 .
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 195 lb uplift at joint 2 and 199 lb uplift at joint 6.

LOAD CASE(S) Standard



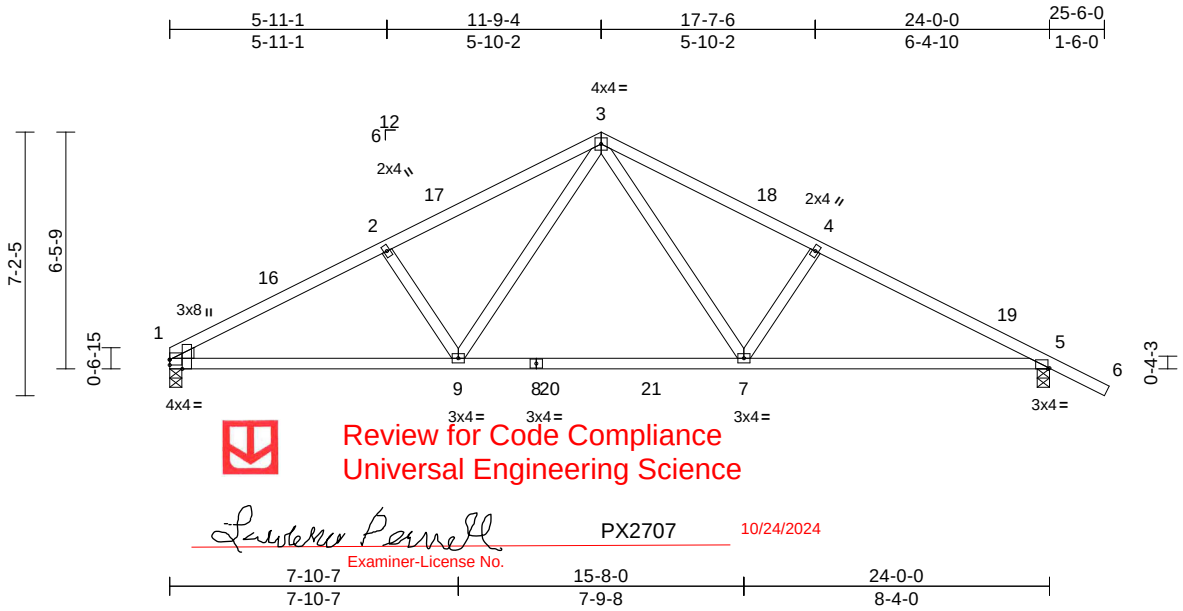
Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 9,2024

Job	Truss	Truss Type	Qty	Ply	McLeod Addition	
1665-A	T2	Common	7	1	Job Reference (optional)	T35223013

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.82 S Sep 25 2024 Print: 8.820 S Sep 25 2024 MiTek Industries, Inc. Tue Oct 08 15:04:54 Page: 1
ID:bk2hcQzCg6KLaH4Y0O_60tyXUPx-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Review for Code Compliance
Universal Engineering Science

PX2707 10/24/2024
Examiner-License No.

Scale = 1:62.1

Plate Offsets (X, Y): [1:Edge,0-1-12], [1:0-3-0,Edge], [5:0-0-8,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	0.45	Vert(LL)	-0.15	7-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	-0.25	7-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.05	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 111 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
WEDGE Left: 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-11-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=0-4-0, 5=0-4-0
Max Horiz 1=-133 (LC 13)
Max Uplift 1=-158 (LC 12), 5=-200 (LC 13)
Max Grav 1=1039 (LC 2), 5=1121 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1712/283, 2-3=-1569/295, 3-4=-1635/286, 4-5=-1783/282, 5-6=0/42
BOT CHORD 1-9=-258/1483, 7-9=-75/1020, 5-7=-171/1564
WEBS 3-7=-134/710, 4-7=-374/223, 3-9=-126/617, 2-9=-335/214

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=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 11-9-4, Zone2 11-9-4 to 16-0-2, Zone1 16-0-2 to 25-6-13 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) All bearings are assumed to be SP No.2 .
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 158 lb uplift at joint 1 and 200 lb uplift at joint 5.

LOAD CASE(S) Standard

JULIUS LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

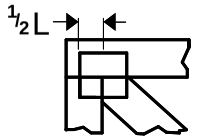
Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 9,2024

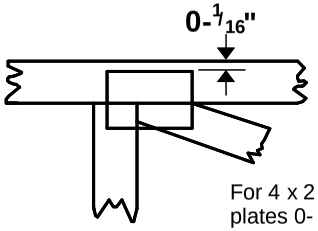
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

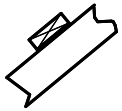
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

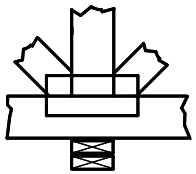
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

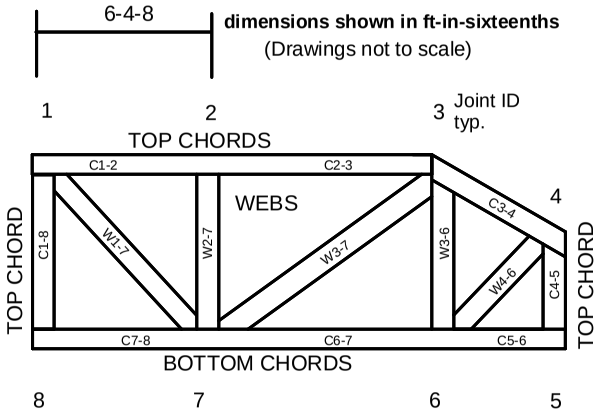


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

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

MiTek®

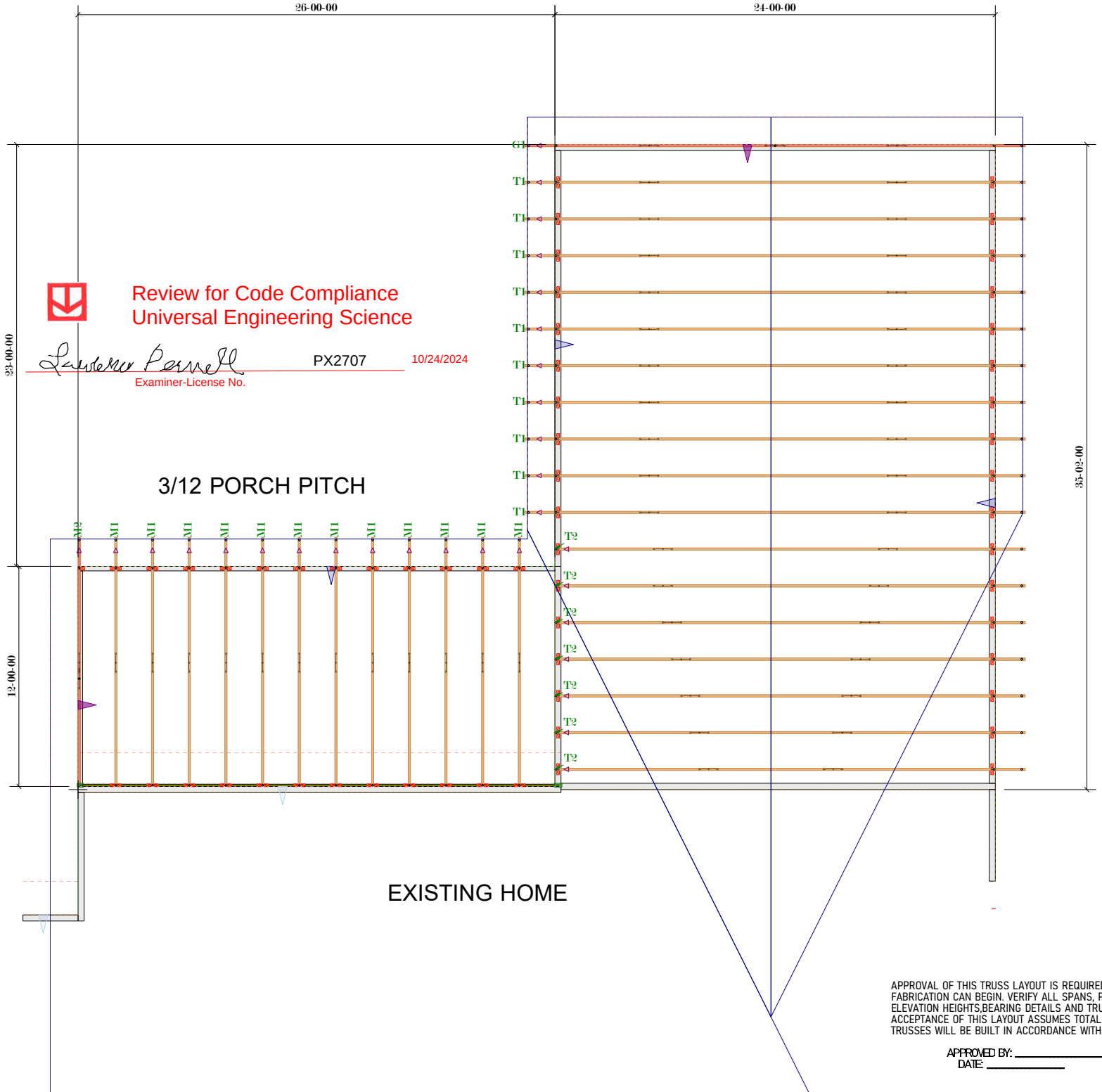
MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

Review for Code Compliance
Universal Engineering Science
10/24/2024
PX2707
Examiner-License No.



Review for Code Compliance
Universal Engineering Science

Lawrence Parnell PX2707 10/24/2024
Examiner-License No.

APPROVAL OF THIS TRUSS LAYOUT IS REQUIRED BEFORE FABRICATION CAN BEGIN. VERIFY ALL SPANS, PITCHES, OVERHANGS, ELEVATION HEIGHTS,BEARING DETAILS AND TRUSS DETAILS. ACCEPTANCE OF THIS LAYOUT ASSUMES TOTAL RESPONSIBILITY. THE TRUSSES WILL BE BUILT IN ACCORDANCE WITH THIS LAYOUT

APPROVED BY: _____
DATE: _____

JOB NAME: Mcleod Addition McLeod Residence

CUSTOMER NAME: Parrish Builders Group

ADDRESS: 751 SW Jacobs CT.
Fort White FL 32028
JOB# 1665

DATE: 10/2/2024

PITCH: 6/12
OVERHANG: 1-06-00
ROOF SPACING: 24"

WALL HEIGHT: 9'

LOADING CRITERIA

BUILDING CODE: FBC 2023
WIND STANDARD: ASCE722
WIND VELOCITY: 130 mph
EXPOSURE CATEGORY: B

Roof Loading
TCLL:20.0 lb/ft²
TCDL:10.0 lb/ft²
BCDL:10.0 lb/ft²
Floor Loading
TCLL:40.0 lb/ft²
TCDL:10.0 lb/ft²
BCDL:5.0 lb/ft²

WARNING

IT IS THE RESPONSIBLITY OF THE BUILDING DESIGNER OR ARCHITECT TO PROVIDE ALL CONNECTIONS OTHER THAN TRUSS TO TRUSS , UNLESS SPECIFIED OTHERWISE.

CONVENTIONAL FRAMING,ERECTION OR PERMANENT BRACING IS NOT THE RESPONSIBLITY OF THE TRUSS DESIGNER OR TRUSS MANUFACTURER.

TRUSSES SHALL BE HANDLED WITH REASONABLE CARE DURING ERECTION TO PREVENT DAMAGE

DO NOT CUT OR ALTER TRUSSES IN ANY WAY

NOTES:

*ALL DEMENSIONS ARE FEET-INCHES- SIXTEENTHS

*NO BACKCHARGES WILL BE ACCEPTED

19 LUMBER INC.
25221 SE HWY 19
Old Town Florida 32680
United States
19lumberinc@gmail.com
(352) 469-5008