MiTek

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

RE: 4520083 - MIKE TODD - SCOTT CARPORT

MiTek, Inc.

16023 Swingley Ridge Rd. Chesterfield, MO 63017

314.434.1200

Site Information:

Customer Info: MIKE TODD CONST. Project Name: Scott Model: Carport

Lot/Block: N/A

Address: 7392 NW US Hwy 41, N/A

City: Lake City

State: FL

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

Subdivision: N/A

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 Floor Load: N/A psf

Roof Load: 40.0 psf

This package includes 9 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	T37759383	CJ01	6/30/25
2	T37759384	CJ03	6/30/25
3	T37759385	CJ05	6/30/25
4	T37759386	EJ01	6/30/25
5	T37759387	HJ10	6/30/25
6	T37759388	T01	6/30/25
7	T37759389	T02	6/30/25
8	T37759390	T03	6/30/25
9	T37759391	T04	6/30/25

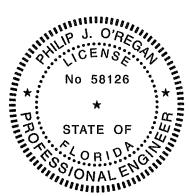
This item has been digitally signed and sealed by ORegan, Philip, PE on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

The truss drawing(s) referenced above have been prepared by M₁Tek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: ORegan, Philip

My license renewal date for the state of Florida is February 28, 2027.

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,



Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

June 30.2025

Job	Truss	Truss Type		Qty	Ply	MIKE TODD - SCOTT CARPORT
ļ	ł	<u> </u>			i	T37759383
4520083	CJ01	Jack-Open		8	1	
						Job Reference (optional)
Builders FirstSource	(Lake City,FL), Lake	City, FL - 32055,			8,830 s Ju	un 11 2025 MiTek Industries, Inc. Fri Jun 27 11:07.25 2025 Page 1
				ID 7CvAcxg5	idm4g2lcSL	LITv78yDLIr-LT0KNHFqkU1lg2nfjUcdoY31n1uRum0zheZ6nAz25r0
			-1-10-0		1-0-	0
		I	1-10-0		1-0-	0
						Scale = 1 10.4

7.00 12

1-0-0 1-0-0

Structural wood sheathing directly applied or 1-0-0 oc purlins

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

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
						in	(ioc)				
TCLL 200	Plate Grip I	OOL 1.2!	TC	0 28	Vert(LL)	0 00	7	>999	240	MT20	244/190
TCDL 100	Lumber DC	L 1.28	BC	0 07	Vert(CT)	0 00	7	>999	180		
3CLL 00	 Rep Stress 	Incr YES	WB	0 00	Horz(CT)	0 00	2	n/a	n/a		
BCDL 10 0	Code FBC	2023/TPI2014	Matr	ix-MP						Weight, 7 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

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

Max Horz 2=58(LC 12)

Max Uplift 3=-21(LC 1), 2=-108(LC 12), 4=-44(LC 19) Max Grav 3=13(LC 16), 2=252(LC 1), 4=28(LC 12)

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

- 1) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf; BCDL=3 0psf; h=20ft; Cat. II, Exp B, Encl. GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 zone, porch 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 3, 108 lb uplift at joint 2 and 44 lb uplift at joint 4

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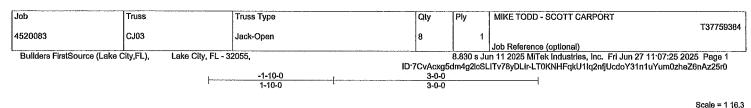
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16923 Swingley Ridge Rd. Chesteefield, MO 63017 Date:

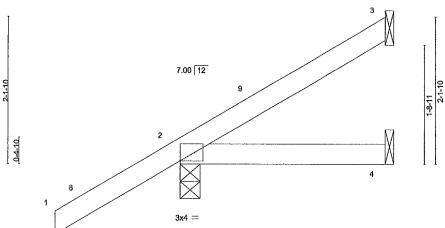
June 30,2025

MarninG - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)







3-0-0 Plate Offsets (X,Y)--[2 Edge,0-1-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in l/defi L/d **PLATES** GRIP (loc) TCLL 20 ó Plate Grip DOL 1.25 TC 0.28 Vert(LL) -0 00 244/190 240 >999 MT20 TCDL 100 Lumber DOL 1.25 BC 0.07 Vert(CT) -0.01>999 180 **BCLL** 00 Rep Stress Incr WB 0.00 YES Horz(CT) -0.00 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

TOP CHORD 2x4 SP No.2 BOT CHORD

100

2x4 SP No.2

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

Max Horz 2=102(LC 12) Max Uplift 3=-42(LC 12), 2=-80(LC 12), 4=-18(LC 9) Max Grav 3=63(LC 19), 2=262(LC 1), 4=49(LC 3)

Code FBC2023/TPI2014

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

NOTES-

1) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp B, Encl. GCpi=0 18 MWFRS (envelope) gable end zone and C-C Zone3 -1-10-0 to 1-2-0, Zone1 1-2-0 to 2-11-4 zone, porch left and right exposed;C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1.60

Matrix-MP

- 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
- * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 3, 80 lb uplift at joint 2 and 18 lb uplift at joint 4

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Weight: 13 lb

Structural wood sheathing directly applied or 3-0-0 oc purlins

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

FT = 20%

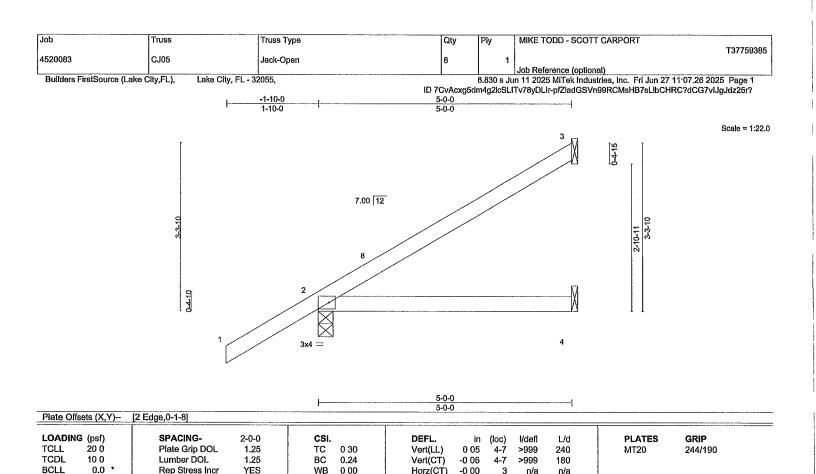
Philip J. O'Regan PE No.58126 Mitek Inc. DBA Mitek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

June 30,2025

Marning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev 1/2/2023 BEFORE USE,

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria and DSB-22 available from Truss Plate Institute (www.lpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)





LUMBER-

BCDL

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

10.0

BRACING-

Horz(CT)

TOP CHORD **BOT CHORD**

Structural wood sheathing directly applied or 5-0-0 oc purlins Rigid ceiling directly applied or 10-0-0 oc bracing

Weight, 19 lb

FT = 20%

n/a

n/a

REACTIONS.

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

Code FBC2023/TPI2014

Max Horz 2=147(LC 12)

Max Uplift 3=-83(LC 12), 2=-83(LC 12), 4=-33(LC 9) Max Grav 3=125(LC 19), 2=328(LC 1), 4=89(LC 3)

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

1) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp B, Encl. GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 -1-10-0 to 1-2-0, Zone1 1-2-0 to 4-11-4 zone, porch left and right exposed,C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60

Matrix-MP

- 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
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 3, 83 lb uplift at joint 2 and 33 lb uplift at joint 4

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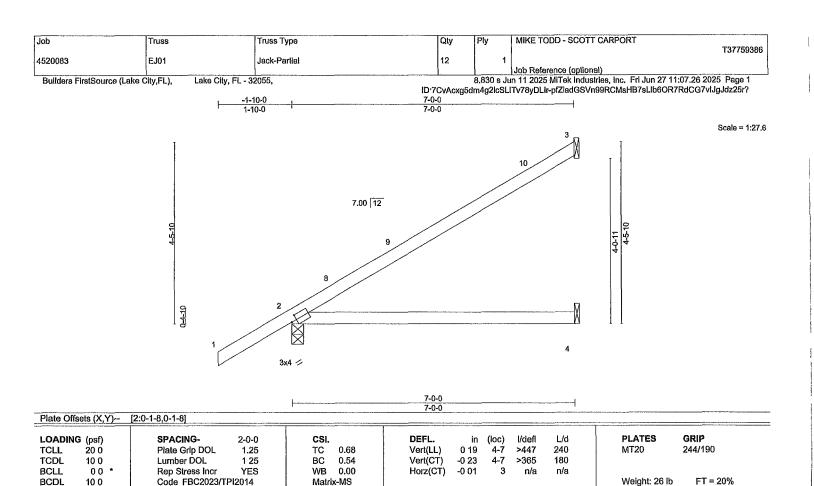
Philip J. O'Regan FE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chester Deld, MO 63017

June 30,2025

Marning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev 1/2/2023 BEFORE USE.

Design valid for use only with MTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly analyse. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)





LUMBER-

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

100

BRACING-

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS.

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

Max Horz 2=185(LC 12)

Max Uplift 3=-108(LC 12), 2=-93(LC 12), 4=-47(LC 9) Max Grav 3=184(LC 19), 2=402(LC 1), 4=128(LC 3)

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

- 1) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf; BCDL=3 0psf; h=20ft, Cat. II, Exp B, Encl , GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 -1-10-0 to 1-2-0, Zone1 1-2-0 to 6-11-4 zone; porch 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
- * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 3, 93 lb uplift at joint 2 and 47 lb uplift at joint 4

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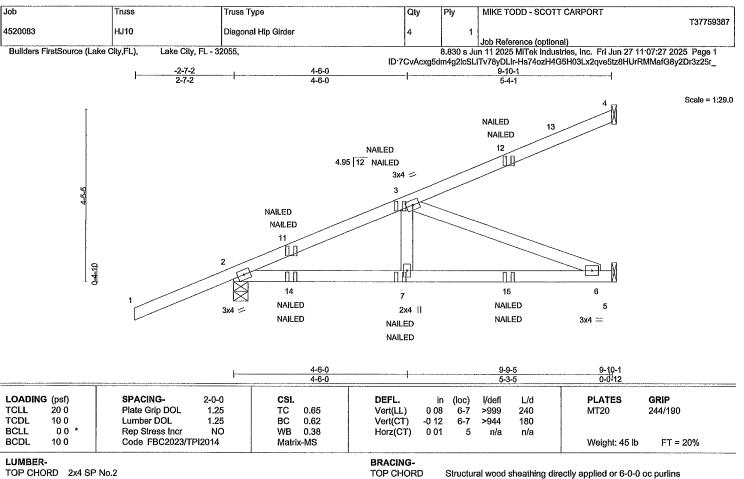
Philip J. O'Regan PE No.58126 MIT'ek Inc. DDA MITek USA Ft. Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

June 30,2025

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and its for an individual building component, not a truss system. Before use, the building designer must varify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)





BOT CHORD 2x4 SP No.2 2x4 SP No.3 **WEBS**

BOT CHORD

Rigid ceiling directly applied or 8-4-10 oc bracing

REACTIONS.

(size) 4=Mechanical, 2=0-4-9, 5=Mechanical

Max Horz 2=185(LC 8)

Max Uplift 4=-98(LC 8), 2=-327(LC 4), 5=-199(LC 5) Max Grav 4=166(LC 1), 2=487(LC 38), 5=287(LC 37)

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

TOP CHORD 2-3=-757/386

BOT CHORD 2-7=-445/608, 6-7=-445/608

WEBS 3-6=-651/476

NOTES-

- 1) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf; BCDL=3 0psf; h=20ft; Cat, II, Exp B, Encl, GCpi=0 18, MWFRS (envelope) gable end zone, porch left and right exposed, 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint 4, 327 lb uplift at joint 2 and 199 lb uplift at joint 5.
- 7) "NAILED" indicates 3-10d (0 148"x3") or 2-12d (0 148"x3.25") toe-nails per NDS guidlines
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1 25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-60, 5-8=-20

Concentrated Loads (lb)

Vert: 7=2(F=1, B=1) 11=68(F=34, B=34) 12=-73(F=-37, B=-37) 14=74(F=37, B=37) 15=-55(F=-27, B=-27)

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Philip J. O'Regan PE No.58126 MiTck Inc. DBA MITck USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

June 30,2025

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev 1/2/2023 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly and permanent pracing the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job Truss Truss Type Qty Ply MIKE TODD - SCOTT CARPORT T37759388 4520083 T01 Hip Girder 2 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055 8.830 s Jun 11 2025 MiTek Industries, Inc. Fri Jun 27 11 07 27 2025 Page 1 -1-10-0 11-6-0 3-10-4 1-10-0 4-6-0 4-6-0

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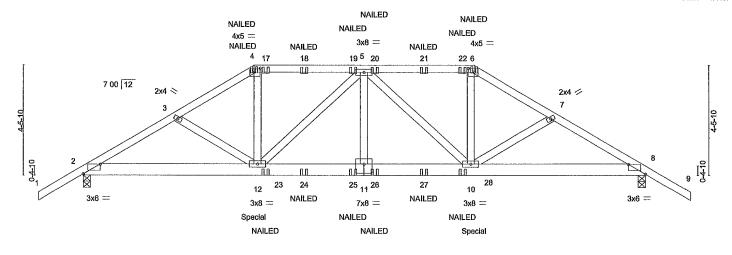


Plate Of	fsets (X,Y)	7-0-0 [2·0-8-4,Edge], [4 0-3-0,0	-2-01. [6.0-3-0.	0-2-01 [8.0-8	4-6-0 8-4 Edgel [11	4	-6-0		1		-0-0	
LOADIN TCLL TCDL		SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.25 1.25	CSI. TC BC	0.65 0.62	DEFL. Vert(LL) Vert(CT)	in 0 15 -0.21	(loc) 11	I/defl >999 >999	L/d 240 180	PLATES MT20	GRIP 244/190
BCLL BCDL	0.0 * 10 0	Rep Stress Incr Code FBC2023/TF	NO	WB	0.49 x-MS	Horz(CT)	0.21	8	n/a	n/a	Weight: 142 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.3 BRACING-

16-0-0

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 3-0-7 oc purlins

23-0-0

Rigid ceiling directly applied or 5-6-5 oc bracing

REACTIONS.

(size) 2=0-3-8, 8=0-3-8 Max Horz 2=-128(LC 6) Max Uplift 2=-954(LC 8), 8=-954(LC 9)

Max Uplift 2=-954(LC 8), 8=-954(LC 9) Max Grav 2=1907(LC 1), 8=1907(LC 1)

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

TOP CHORD 2-3=-3225/1731, 3-4=-3044/1719, 4-5=-2634/1524, 5-6=-2634/1524, 6-7=-3044/1719,

7-8=-3225/1730

BOT CHORD 2-12=-1551/2744, 11-12=-1792/3143, 10-11=-1792/3143, 8-10=-1443/2744 WEBS 4-12=-605/1054, 5-12=-743/452, 5-11=-164/388, 5-10=-743/452, 6-10=-606/1054

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=4.2psf; BCDL=3.0psf; h=20ft, Cat. II, Exp B, Encl , GCpi=0 18, MWFRS (envelope) gable end zone, porch 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.
- 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 3-6-0 tall by 2-0-0 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 954 lb uplift at joint 2 and 954 lb uplift at joint 8.
- B) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0 148"x3.25") toe-nails per NDS guidlines
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 261 lb down and 229 lb up at 7-0-0, and 261 lb down and 229 lb up at 16-0-0 on bottom chord
 The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-4=-60, 4-6=-60, 6-9=-60, 2-8=-20

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Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Dates

June 30,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev 1/2/2023 BEFORE USE.

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	Job	Truss	Truss Type	Qty	Ply	MIKE TODD - SCOTT CARPORT
ı	4520083	T01	Hip Girder	2	4	T37759388
	1020000	101	The Graet	_	'.	Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Jun 11 2025 MITek Industries, Inc. Fri Jun 27 11 07.28 2025 Page 2 ID-7CvAcxg5dm4g2lcSLITv78yDLIr-I2hS?JHi1PPthVWEOc9KQAgSJFnf5?7QNbomNVz25qz

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 4=-82(F) 6=-82(F) 12=-246(F) 10=-246(F) 17=-118(F) 18=-118(F) 19=-118(F) 20=-118(F) 21=-118(F) 22=-118(F) 23=-65(F) 24=-65(F) 25=-65(F) 26=-65(F) 27=-65(F) 28=-65(F)

> This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regau PE No.58126 MITch Inc. DBA MITch USA FL. Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

June 30,2025

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev 1/2/2023 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to provent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



	Job	Truss	Truss Type	Qty	Ply	MIKE TODD - SCOTT CARPORT			
						T37759389			
- 1	4520083	T02	Hip	2	1				
Į						Job Reference (optional)			
	Builders FirstSource (Lake C	2055,	8.830 s Jun 11 2025 MiTek Industries, Inc. Fri Jun 27 11 07:28 2025 Page 1						
				ID·7CvAcxg5dm4g2icSLiTv78yDLir-I2hS?JHi1PPthVWEOc9KQAqWDFIB54QQNbomNVz25qz					
	-1-10-0	4-11-4	9-0-0	14-0-0	18	-0-12 23-0-0 24-10-0			
	1-10-0	4-11-4	4-0-12	5-0-0	4	-0-12 4-11-4 1-10-0			

Scale = 1:43.4

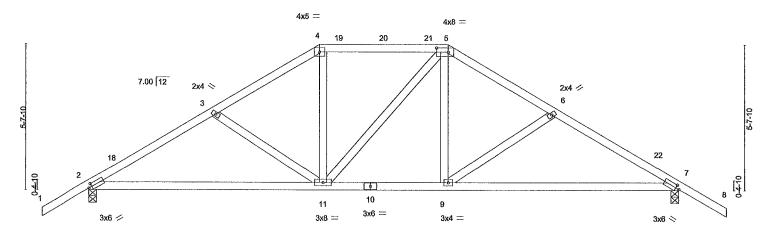


Plate Offsets (X,Y) [9-0-0 2 [.] 0-1-8,0-1-8], [5:0-5-8,0-2-0	j, [7 0-1-8,0-1-8]	5-(0-0	<u>'</u>			9-0-0		1
LOADING (psf)		-0-0 CSI.	0.40	DEFL. Vert(LL)	in 0 17	(loc)	l/defl >999	L/d 240	PLATES MT20	GRIP 244/190
CDL 10.0 CLL 0.0 *	Lumber DOL 1	1.25 BC (ES WB	0.40 0.71 0.15	Vert(CT) Horz(CT)	-0.33 0.04	9-17	>831 n/a	180 n/a	WITZO	244/190
ICDL 10 0	Code FBC2023/TPI20		ix-MS	11012(01)	0.04	•	11/4	II/a	Weight: 119 lb	FT = 20%

14-0-0

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 4-9-2 oc purlins

Rigid ceiling directly applied or 8-2-9 oc bracing

23-0-0

REACTIONS. (size) 2=0-3-8, 7=0-3-8

Max Horz 2=-157(LC 10)

Max Uplift 2=-296(LC 9), 7=-296(LC 8) Max Grav 2=1030(LC 1), 7=1030(LC 1)

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

TOP CHORD 2-3=-1414/609, 3-4=-1169/556, 4-5=-955/510, 5-6=-1168/555, 6-7=-1414/609

9-0-0

BOT CHORD 2-11=-445/1186, 9-11=-337/955, 7-9=-466/1186

WEBS 3-11=-294/185, 4-11=-186/355, 5-9=-194/355, 6-9=-294/185

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=4.2psf; BCDL=3 0psf; h=20ft; Cat. II, Exp B, Encl, GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 -1-10-0 to 1-2-0, Zone1 1-2-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 14-0-0, Zone2 14-0-0 to 18-2-6, Zone1 18-2-6 to 24-10-0 zone, porch left and right exposed,C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding
- 5) 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 3-6-0 tall by 2-0-0 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 296 lb uplift at joint 2 and 296 lb uplift at joint 7

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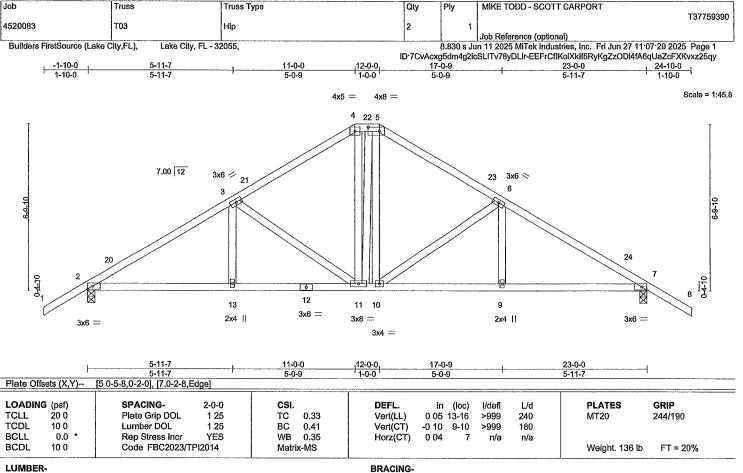
Philip J. O'Regan PE No.55116 MITek Inc. DBA MITek USA FL Cert 6634 16023 Smingfey Ridge Rd. Chesterfield, MO 63017 Date:

June 30,2025

Marning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev 1/2/2023 BEFORE USE.

Design valid for use only with MTet® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer. Trusting indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and parament bracing is always required for stability and to prevent buckling of individual truss was mad/or chord members only. Additional temporary and parament bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)





TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 WEBS

REACTIONS.

(size) 2=0-3-8, 7=0-3-8 Max Horz 2=-186(LC 10)

Max Uplift 2=-262(LC 12), 7=-262(LC 13) Max Grav 2=1030(LC 1), 7=1030(LC 1)

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

TOP CHORD 2-3=-1441/612, 3-4=-1020/482, 4-5=-811/446, 5-6=-1016/478, 6-7=-1443/614 BOT CHORD

2-13=-431/1177, 11-13=-431/1177, 10-11=-240/806, 9-10=-454/1179, 7-9=-454/1179

WEBS 3-11=-458/259, 4-11=-190/312, 5-10=-164/282, 6-10=-464/263

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=4.2psf; BCDL=3 0psf; h=20ft; Cat. II, Exp B, Encl GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 -1-10-0 to 1-2-0, Zone1 1-2-0 to 11-0-0, Zone3 11-0-0 to 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 24-10-0 zone, porch 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
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 262 lb uplift at joint 2 and 262 lb uplift at joint 7

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Structural wood sheathing directly applied or 4-8-13 oc purlins

Rigid ceiling directly applied or 8-7-14 oc bracing

Philip J. O'Regon PE No.58126 MiTek Inc. DBA MITek USA FI. Cert 6634 16023 Swingley Riège Rd. Chester Geld, MO 63017

June 30,2025

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Job MIKE TODD - SCOTT CARPORT Truss Truss Type Qty Ply T37759391 4520083 T04 Common Job Reference (optional) 8.830 s Jun 11 2025 MITek Industries, Inc. Fri Jun 27 11 07:29 2025 Page 1 ID 7CvAcxg5dm4g2lcSLITv78yDLIr-EEFrCflKolXklf5RyKgZzODIFf6FqUUZcFXKvxz25qy Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 5-11-8 11-6-0 23-0-0 1-10-0

Scale = 1:49.1

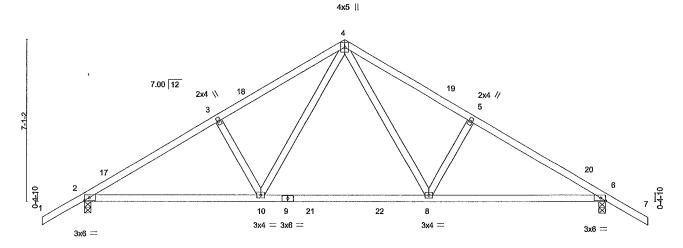


Plate Offsets (X,Y)	7-9-11 [6 0-2-8.Edge]	7-4-10		7-9-11		
LOADING (psf) TCLL 20 0	SPACING- 2-0-0 Plate Grip DOL 1.25	CSI. DEFL. TC 0 38 Vert(L	(/		PLATES GRIP MT20 244/190	
TCDL 10 0 BCLL 0.0 * BCDL 10 0	Lumber DOL 1.25 Rep Stress Incr YES Code FBC2023/TPI2014	BC 0.66 Vert(C WB 0.35 Horz(C Matrix-MS	Ť) -0 18 8-10		Weight: 114 lb FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

15.2.5

23-0-0

Structural wood sheathing directly applied or 4-6-4 oc purlins

Rigid ceiling directly applied or 8-7-5 oc bracing

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3

VEBS 2x4 SP No.3

(size) 2=0-3-8, 6=0-3-8

Max Horz 2=-192(LC 10)

Max Uplift 2=-261(LC 12), 6=-261(LC 13) Max Grav 2=1092(LC 2), 6=1092(LC 2)

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

7-9-11

TOP CHORD 2-3=-1518/604, 3-4=-1402/633, 4-5=-1402/633, 5-6=-1518/604 BOT CHORD 2-10=-429/1276, 8-10=-219/847, 6-8=-448/1276

WEBS 4-8=-308/626, 5-8=-348/230, 4-10=-308/626 3-10=-348/230

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=4.2psf; BCDL=3 0psf; h=20ft; Cat. II, Exp B, Encl , GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 -1-10-0 to 1-2-0, Zone1 1-2-0 to 11-6-0, Zone2 11-6-0 to 15-8-15, Zone1 15-8-15 to 24-10-0 zone, porch left and right exposed,C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 4) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10 0psf
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 261 lb uplift at joint 2 and 261 lb uplift at joint 6

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Philip J. O'Regan PE No.88126 MiTek Isc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

June 30,2025

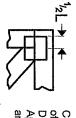
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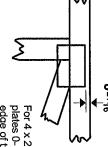


Symbols

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 symb

This symbol indicates the required direction of slots in connector plates

Plate location details available in MiTek software or upon request.

PLATE SIZE

4 × 4

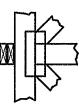
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



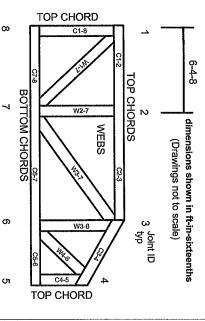
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1 Na Pia DSB-22' Do BCSI Bu

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing. Building Component Safety Information, Guide to Good Practice for Handling, Installing, 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.

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

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required See BCSI
- Truss bracing must be designed by an engineer For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.

4.

Cut members to bear tightly against each other

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- Place plates on each face of truss at each joint and embed fully Knots and wane at joint locations are regulated by ANSI/TPI 1
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber

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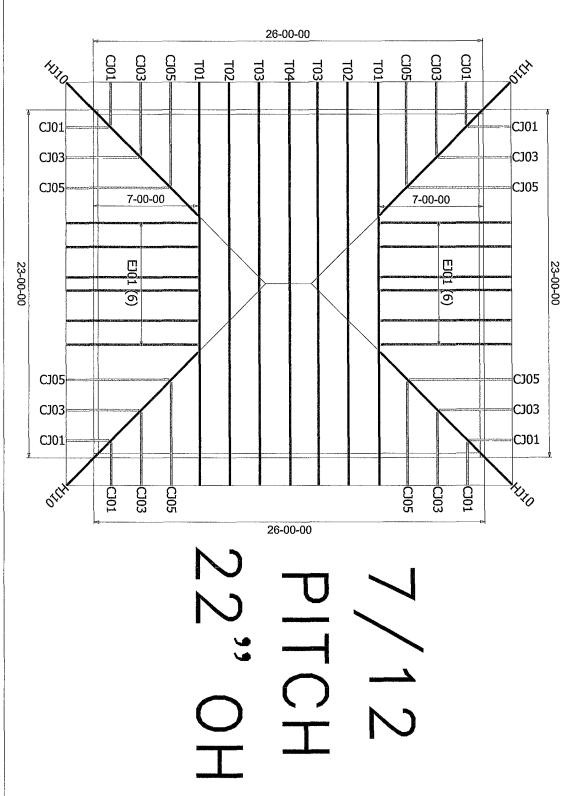
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.

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- 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.

Summations of limited excepts of the Code, ANSI/TPI 1-2014, and BCSI, and associated commentary, are provided within the truss submittal package in the Builders FirstSource Component Truss Responsibility and Liability Disclosure. These critical excepts include, among other elements, critical safety information as well as specific Scope-of-Work assignments (and limitations of the same) for the Owner, Contractor, Building Designer Truss Designer, and Truss Manufacturer It is essential that ALL parties to the design and use of the Trusses review and become familiar with the information provided in the Builders FirstSource Component Truss Responsibility and Liability Disclosure, as well as the referenced sources, prior to performing work on the associated project.



BOTTOM CHORD SIZE: 2 X 4
OVERHANG LENGTH: 22**
END CUT: PLUMB

ROOF PITCH: 7/12
CEILING PITCH: FLAT
TOP CHORD SIZE: 2 X 4

CANTILEVER: N/A
TRUSS SPACING: 24"

BUILDING CODE:FBC 2023

BEARING HEIGHT SCHEDULE

BULLISTE

MIRE TODE CUSTOM

LEP: HIP

ADDRESS: NA
SUBDIVISION: SCOTT CARPORT

OTIV: SAZZOUS SCALE N.T.S.

REPUSIONS:

REPUBLICATION OF THE PUBLICATION OF THE PUBL

WARNING
WARNING
WARNING
Sackcharges Will live 80 Accepted
Regardless of Fault Without Prior
routinession By Customer Within 81
Hours And Investigation By
Huilders FlatSource,
NO EXCEPTIONS.

This Drawing Must Be Approved And Returned Before Fainfeation Will Begin, For Your Protection Check All Dimensions And Conditions Prior To Approved Of Plan.

Approved Of Plan.

SIGNATURE BELOW INDICATES ALL NOTES AND DEPENSIONS HAVE BEEN ACCEPTED.

IMPORTANT

FINAL LAYOUT FOR PRODUCTION
Initial: Date:
Requested Delivery Date:

PERF.