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: 4461086 - 188 SW BIRCH GLEN

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

Site Information:
Customer Info: YASMANIS REYES Project Name: Spec Hse Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 188 SW Birch Glen, N/A
City: Columbia Cty 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: 140 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 31 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	T36279618	CJ01	2/5/25	15	T36279632	T06	2/5/25
2	T36279619	CJ03	2/5/25	16	T36279633	T07	2/5/25
3	T36279620	CJ05	2/5/25	17	T36279634	T08	2/5/25
4	T36279621	EJ01	2/5/25	18	T36279635	T09	2/5/25
5	T36279622	EJ02	2/5/25	19	T36279636	T10	2/5/25
6	T36279623	EJ03	2/5/25	20	T36279637	T11	2/5/25
7	T36279624	HJ05	2/5/25	21	T36279638	T12	2/5/25
8	T36279625	HJ08	2/5/25	22	T36279639	T13	2/5/25
9	T36279626	HJ10	2/5/25	23	T36279640	T14	2/5/25
10	T36279627	T01	2/5/25	24	T36279641	T15	2/5/25
11	T36279628	T02	2/5/25	25	T36279642	T16	2/5/25
12	T36279629	T03	2/5/25	26	T36279643	T17	2/5/25
13	T36279630	T04	2/5/25	27	T36279644	T18	2/5/25
14	T36279631	T05	2/5/25	28	T36279645	T19	2/5/25

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date adjacent to the seal.
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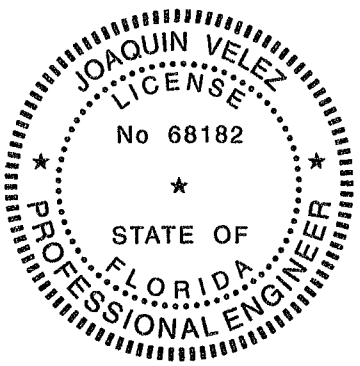
The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: Velez, Joaquin
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.



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

February 5,2025

MiTek®

RE: 4461086 - 188 SW BIRCH GLEN

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

Site Information:

Customer Info: YASMANIS REYES Project Name: Spec Hse Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 188 SW Birch Glen, N/A
City: Columbia Cty State: FL

No.	Seal#	Truss Name	Date
29	T36279646	T20	2/5/25
30	T36279647	T21	2/5/25
31	T36279648	T22	2/5/25

Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN	T36279618
4461086	CJ01	Jack-Open	18	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Tue Feb 4 16:41:50 2025 Page 1
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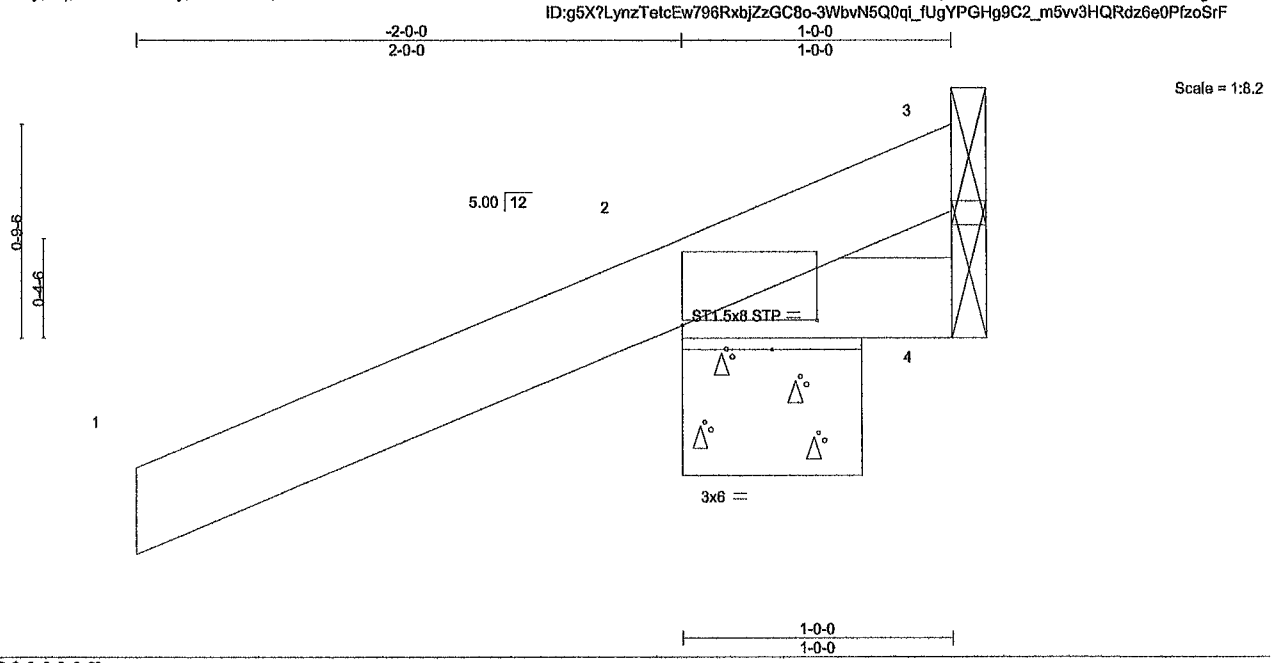

Plate Offsets (X,Y)-- [2:0-6-0,0-0-3]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20 0	Plate Grip DOL	1 25	TC	0 50	Vert(LL)	-0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0 10	Vert(CT)	0.00	5	>999	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 00	Horz(CT)	0 00	2	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 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS. (size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=68(LC 8)
Max Uplift 3=-27(LC 1), 2=-238(LC 8), 4=-46(LC 1)
Max Grav 3=41(LC 8), 2=254(LC 1), 4=65(LC 8)

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

NOTES-
1) Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3 0psf; h=20ft; Cat. II, Exp C, 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 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=238

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Joaquin Velez PE No.69182
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Chesterfield, MO 63017
Date:
February 5,2025

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Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN	T36279619
4461086	CJ03	Jack-Open	14	1	Job Reference (optional)	

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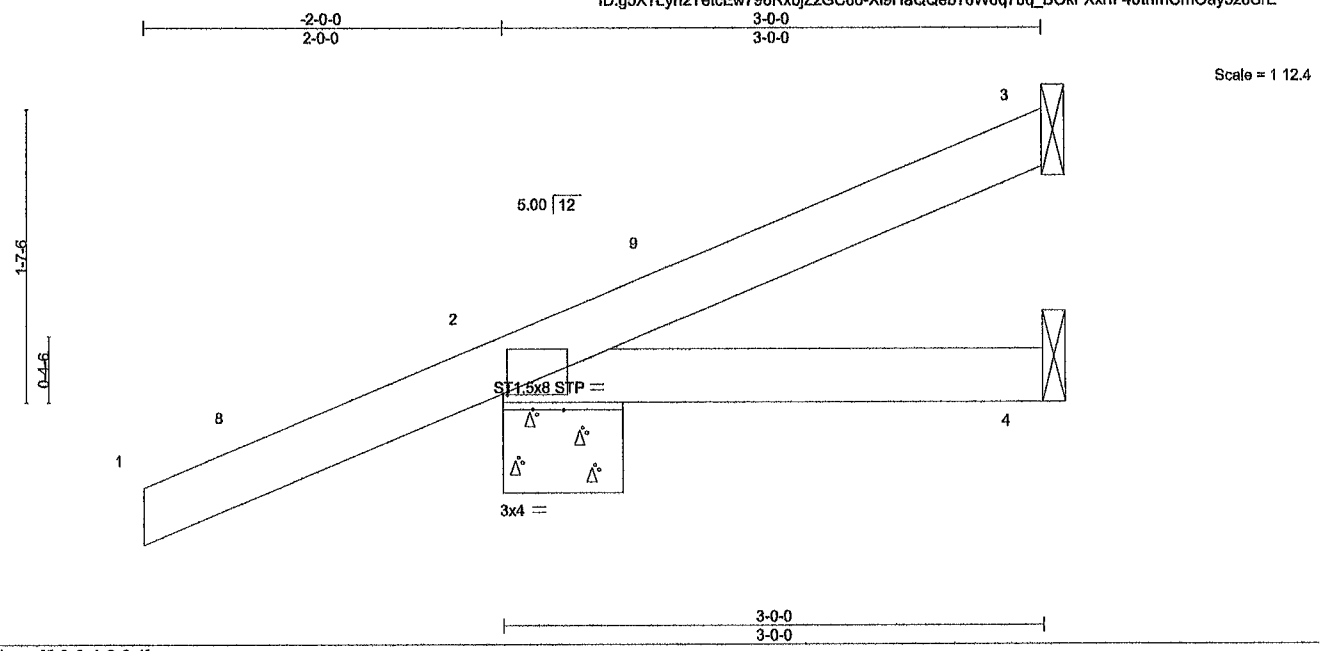

Plate Offsets (X,Y)-- [2 0-0-4,0-0-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20 0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	-0.01	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0 11	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0 00	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 13 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=112(LC 12)
Max Uplift 3=-53(LC 12), 2=-175(LC 8)
Max Grav 3=51(LC 1), 2=253(LC 1), 4=47(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C, Encl , GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 2-11-4 zone,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 100 lb uplift at joint(s) 3 except (jt=lb) 2=175

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Date:
February 5,2025

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Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN	T36279620
4461086	CJ05	Jack-Open	10	1	Job Reference (optional)	

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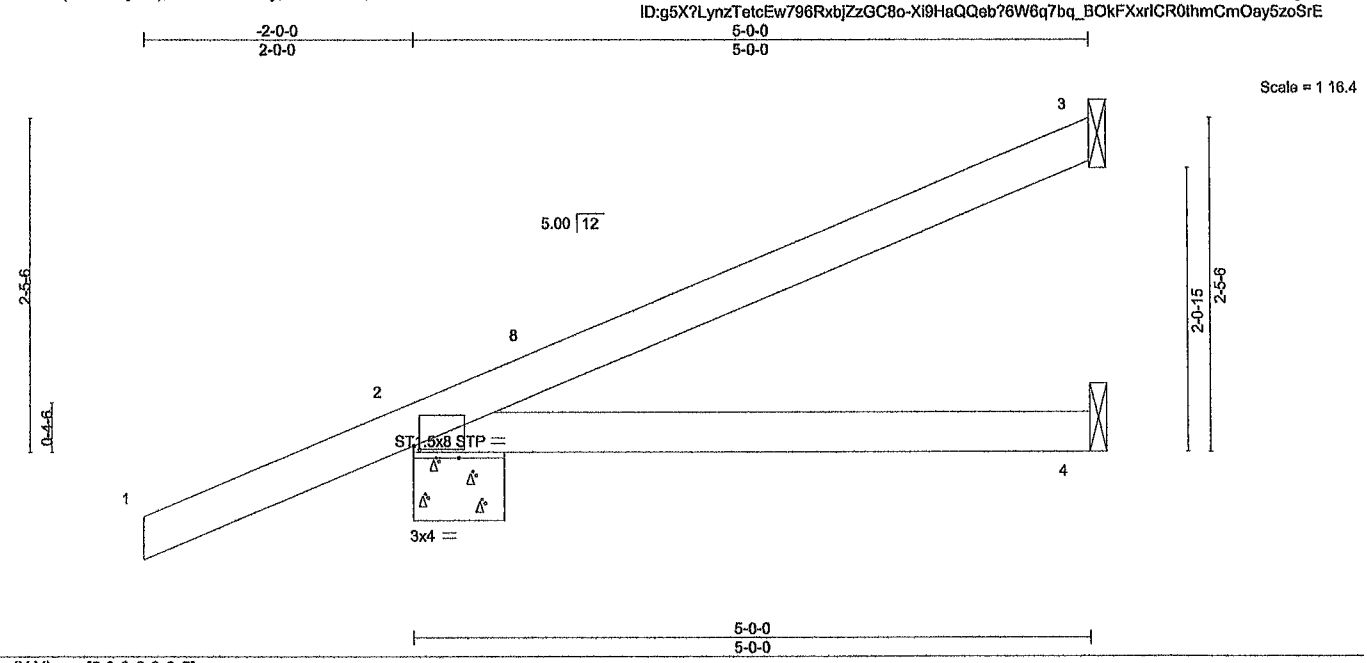

Plate Offsets (X,Y)-- [2:0-0-8,0-0-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20 0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	0.04	4-7	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1.25	BC	0.28	Vert(CT)	-0.06	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10 0	Code FBC2023/TPI2014		Matrix-MP							Weight: 19 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 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS. (size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=160(LC 12)
Max Uplift 3=-110(LC 12), 2=-183(LC 12), 4=-3(LC 12)
Max Grav 3=108(LC 1) 2=313(LC 1), 4=86(LC 3)

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

NOTES-
1) Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3 0psf; h=20ft; Cat. II, Exp C, Encl , GCpi=0.18, MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 4-11-4 zone, porch 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 100 lb uplift at joint(s) 4 except (jt=lb) 3=110, 2=183

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Chesterfield, MO 63017
Date:
February 5,2025

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Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN	T36279621
4461086	EJ01	Jack-Partial	30	1	Job Reference (optional)	

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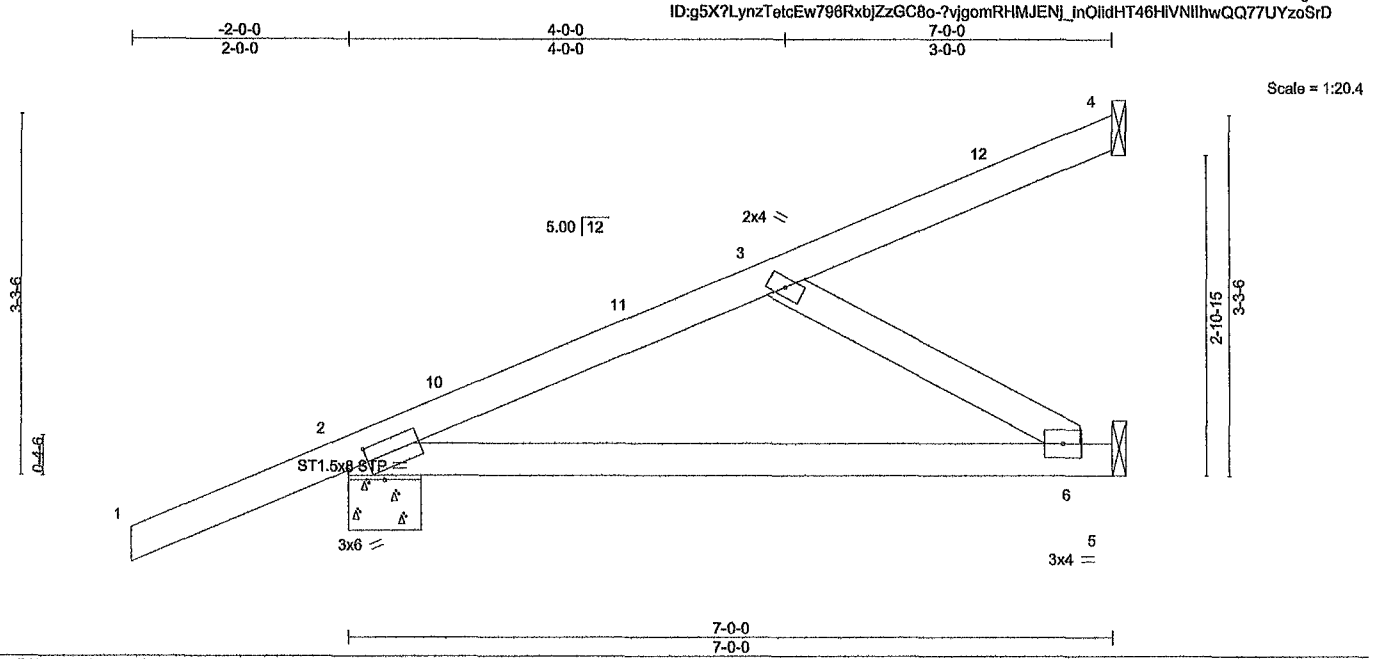

Plate Offsets (X,Y)-- [2:0-2-6,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20 0	Plate Grip DOL	1.25	TC	0.46	Vert(LL)	0 13	6-9	>645	240	MT20	244/190
TCDL	7 0	Lumber DOL	1.25	BC	0.43	Vert(CT)	-0.15	6-9	>569	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 14	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10 0	Code FBC2023/TPI2014		Matrix-MS							Weight: 30 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-11-13 oc bracing

REACTIONS. (size) 4=Mechanical, 2=0-8-0, 5=Mechanical
Max Horz 2=201(LC 12)
Max Uplift 4=-59(LC 12), 2=-286(LC 8), 5=-158(LC 9)
Max Grav 4=61(LC 1), 2=380(LC 1), 5=181(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-264/243
BOT CHORD 2-6=-420/231
WEBS 3-6=-266/485

NOTES-
1) Wind ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl , GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 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.
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 100 lb uplift at joint(s) 4 except (jt=lb) 2=286, 5=158.

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
February 5,2025

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Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN	T36279622
4461086	EJ02	Jack-Open	4	1	Job Reference (optional)	

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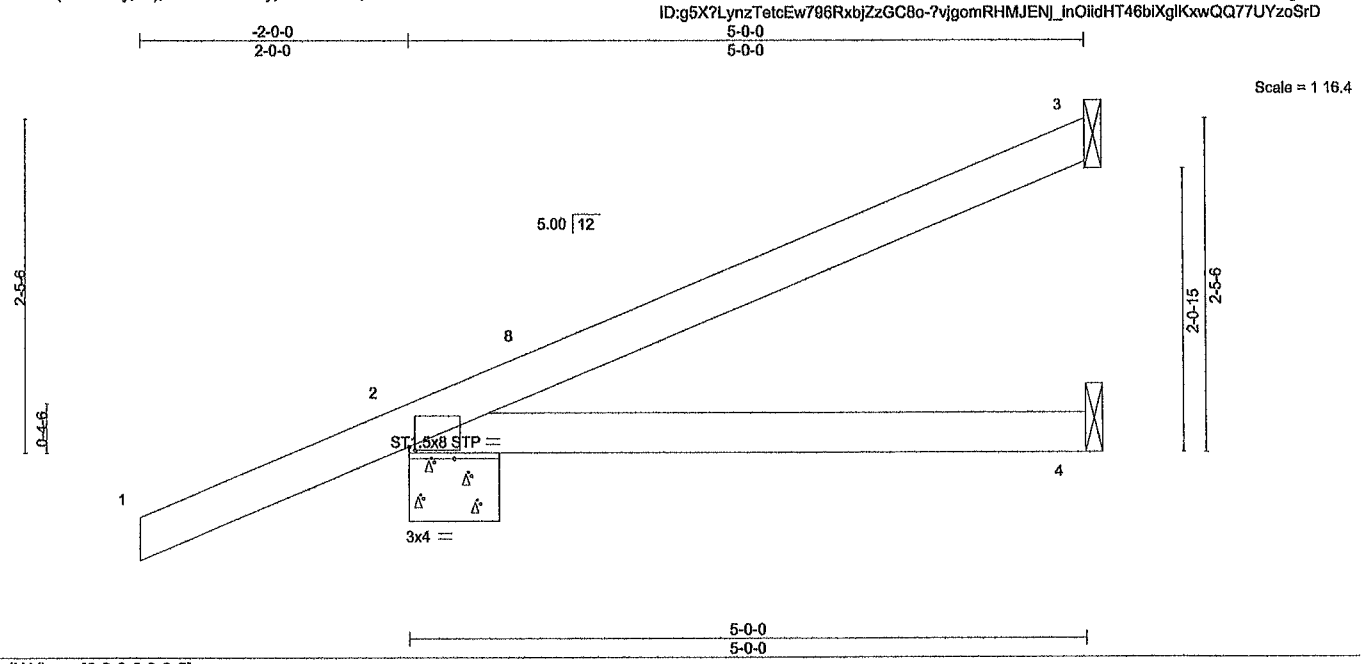

Plate Offsets (X,Y)-- [2:0-0-8,0-0-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20 0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	0.04	4-7	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1.25	BC	0.28	Vert(CT)	-0.06	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0 00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10 0	Code FBC2023/TPI2014		Matrix-MP							Weight: 19 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 5-0-0 oc purlins
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS. (size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=160(LC 12)
Max Uplift 3=-110(LC 12), 2=-182(LC 12), 4=-3(LC 12)
Max Grav 3=108(LC 1), 2=313(LC 1), 4=86(LC 3)

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

NOTES-
1) Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl , GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 4-11-4 zone;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 100 lb uplift at joint(s) 4 except (jt=lb) 3=110, 2=182

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Date:
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Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN	T36279623
4461086	EJ03	Jack-Partial	2	1	Job Reference (optional)	

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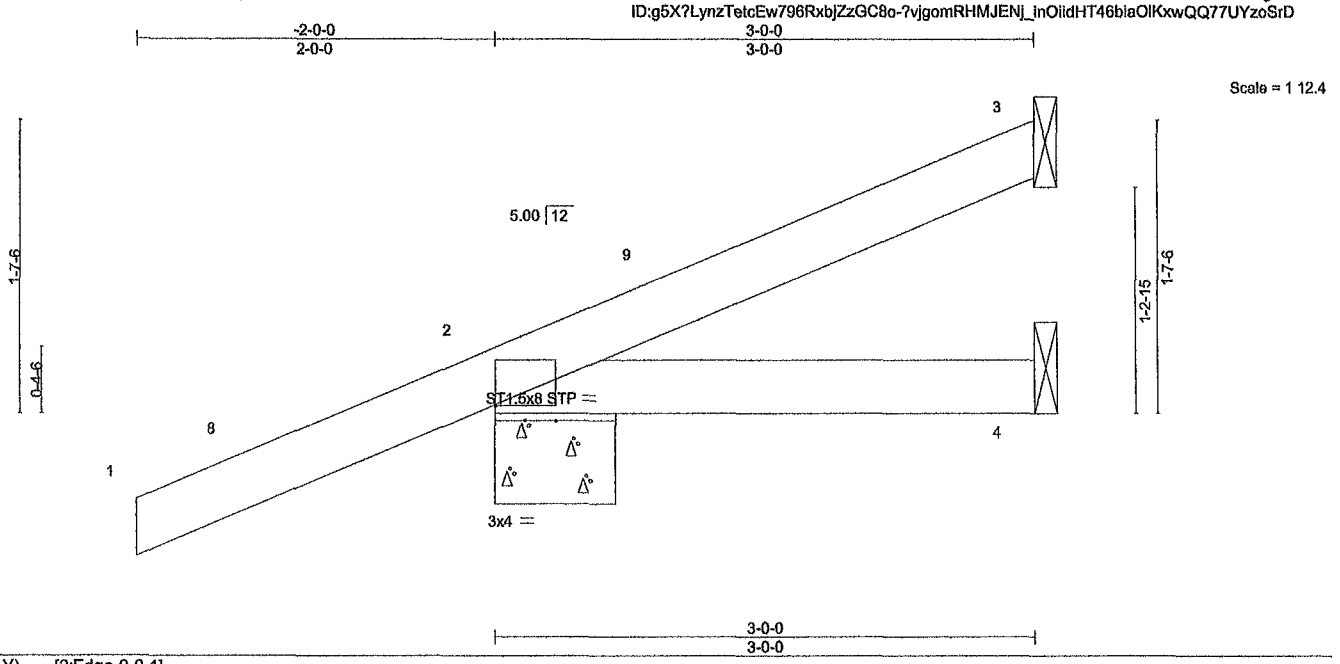

Plate Offsets (X,Y)-- [2:Edge,0-0-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20 0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1.25	BC	0 11	Vert(CT)	-0.00	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0 00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10 0	Code FBC2023/TPI2014		Matrix-MP							Weight: 13 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=112(LC 12)
Max Uplift 3=-53(LC 12), 2=-215(LC 8), 4=-28(LC 9)
Max Grav 3=51(LC 1), 2=253(LC 1), 4=47(LC 3)

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

NOTES-
1) Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl , GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 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
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 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=215.

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Date:
February 5,2025

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Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN	T36279624
4461086	HJ05	Diagonal Hip Girder	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Tue Feb 4 16:41.53 2025 Page 1
ID:g5X?LynzTetcEw796RxbjZzGC8o-T5H2?6Sv6dMEL7HzxPDsqgcFw6qGUnB3f4tg0_zoSrC

-2-9-15 4-2-3
2-9-15 4-2-3

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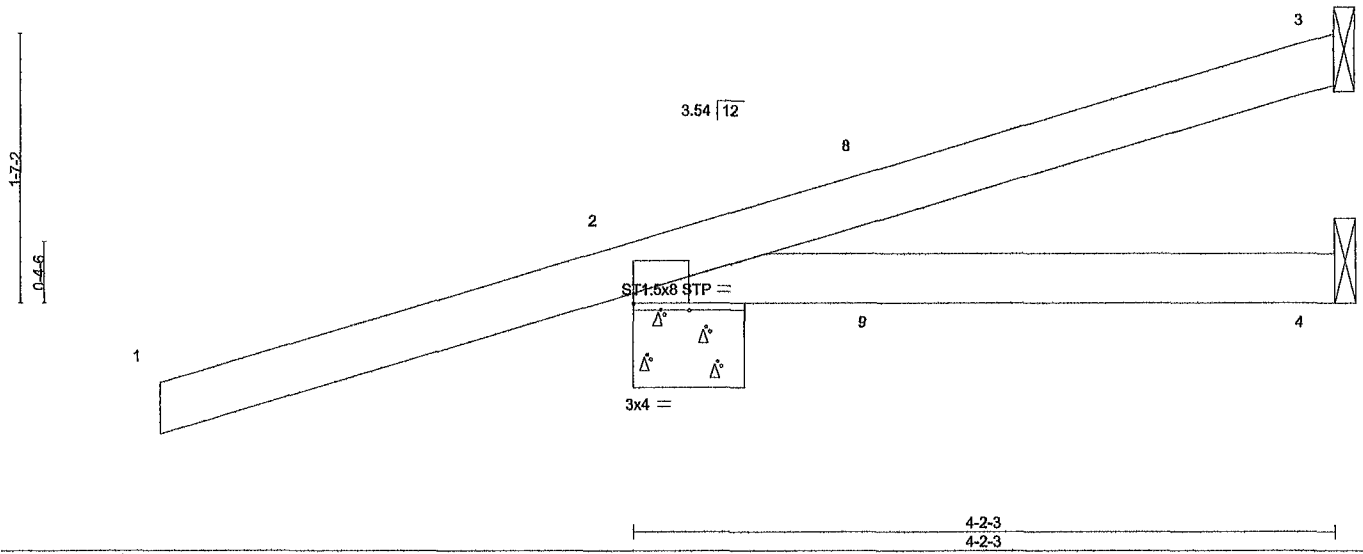

4-2-3
4-2-3

Plate Offsets (X,Y)-- [2 Edge,0-0-11]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20 0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.08	4-7	>658	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.07	4-7	>726	180		
BCLL	0 0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 17 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 4-2-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS. (size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=134(LC 25)
Max Uplift 3=-35(LC 8), 2=-255(LC 4), 4=-36(LC 21)
Max Grav 3=51(LC 1), 2=282(LC 1), 4=86(LC 33)

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

NOTES-
1) Wind. ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph; TCDL=4 2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, 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 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=255
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 117 lb down and 103 lb up at 1-6-1, and 117 lb down and 103 lb up at 1-6-1 on top chord, and 99 lb down and 74 lb up at 1-6-1, and 99 lb down and 74 lb up at 1-6-1 on bottom chord The design/selection of such connection device(s) is the responsibility of others.
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: 1-3=-54, 4-5=-20
Concentrated Loads (lb)
Vert: 8=49(F=24, B=24) 9=70(F=35, B=35)

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February 5,2025

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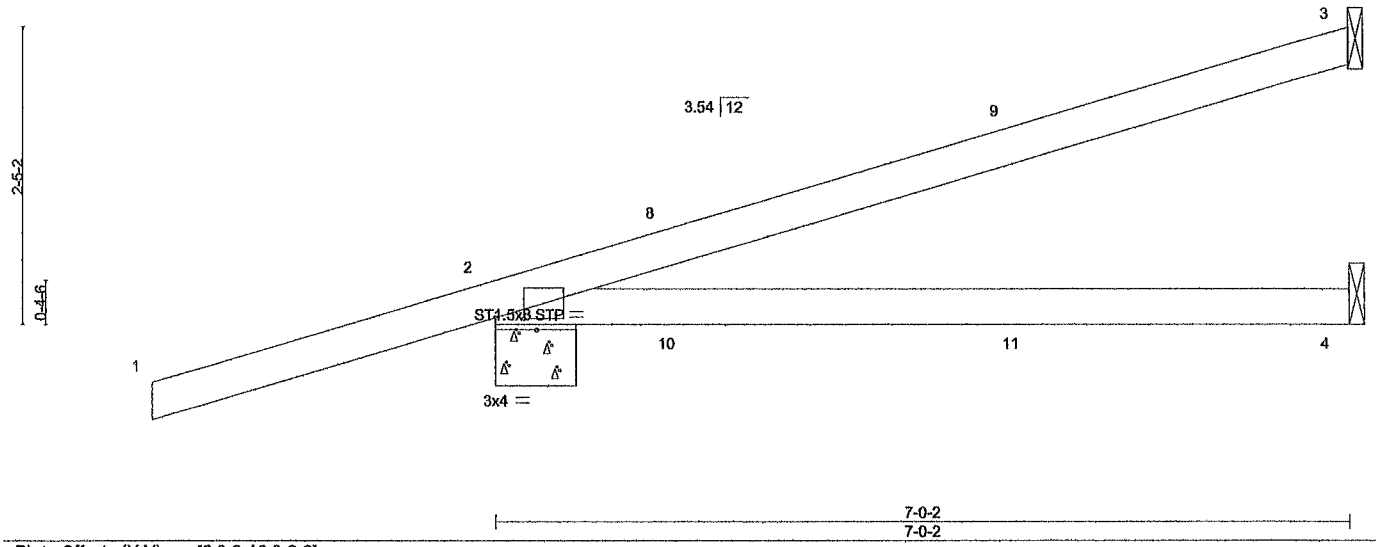
Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN	T36279625
4461086	HJ08	Diagonal Hip Girder	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Tue Feb 4 16:41.53 2025 Page 1
ID:g5X?LynzTetcEw796RxbjZzGC8o-T5H2?6Sv6dMEL7HzxPDsqgcEz6rMUnB3f4tg0_zoSrC

-2-9-15 / 2-9-15 — 7-0-2 / 7-0-2

Scale = 1 18.3



7-0-2 / 7-0-2

Plate Offsets (X,Y)-- [2 0-2-12,0-0-2]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20 0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	-0.20	4-7	>418	240	MT20	244/190
TCDL	7 0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.24	4-7	>348	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10 0	Code FBC2023/TPI2014		Matrix-MS							Weight: 26 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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS. (size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=182(LC 4)
Max Uplift 3=-201(LC 8), 2=-250(LC 4)
Max Grav 3=211(LC 1), 2=346(LC 1), 4=108(LC 3)

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

NOTES-
1) Wind ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl , GCpi=0 18, MWFRS (envelope) gable end zone; 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 100 lb uplift at joint(s) except (jt=lb) 3=201, 2=250.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 117 lb down and 103 lb up at 1-6-1, 117 lb down and 103 lb up at 1-6-1, 29 lb down and 54 lb up at 4-4-0, and 29 lb down and 54 lb up at 4-4-0, and 71 lb down and 114 lb up at 6-11-6 on top chord, and 60 lb down and 74 lb up at 1-6-1, 60 lb down and 74 lb up at 1-6-1, and 31 lb down and 2 lb up at 4-4-0, and 31 lb down and 2 lb up at 4-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
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: 1-3=-54, 4-5=-20
Concentrated Loads (lb)
Vert: 3=-71(F) 8=49(F=24, B=24) 10=70(F=35, B=35) 11=4(F=2, B=2)

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February 5,2025

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Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN	T36279626
4461086	HJ10	Diagonal Hip Girder	5	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Tue Feb 4 16:41.54 2025 Page 1
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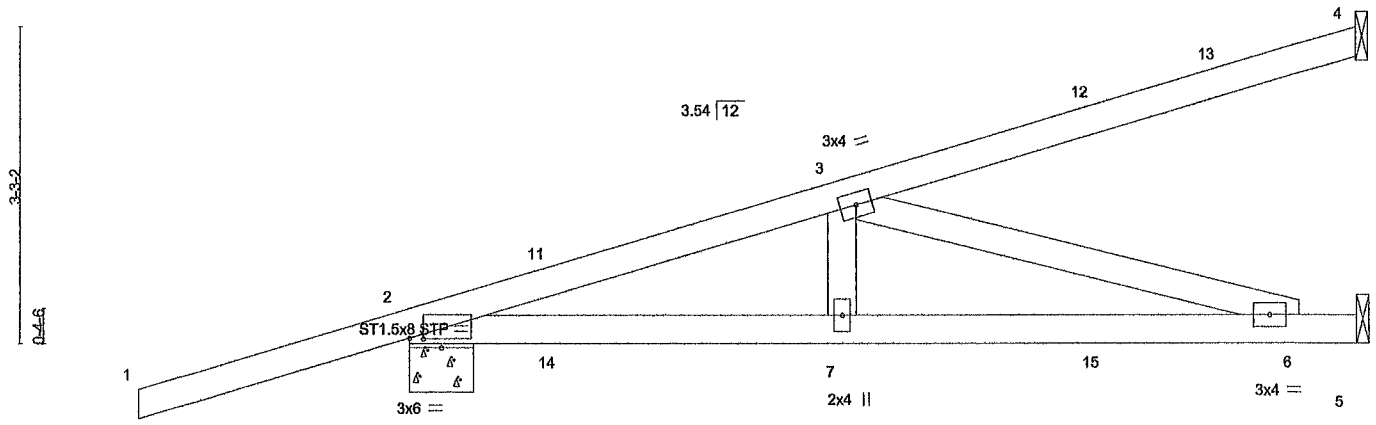
-2-9-15 / 2-9-15 | 4-6-0 / 4-6-0 | 9-10-1 / 5-4-1

Scale = 1:23 1



4-6-0 / 4-6-0 | 9-9-4 / 5-3-4 | 9-10-1 / 0-0-13

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0 60	Vert(LL)	0 14	6-7	>860	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0 68	Vert(CT)	-0.15	6-7	>782	180		
BCLL	0 0 *	Rep Stress Incr	NO	WB	0.36	Horz(CT)	0 01	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 43 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-3-3 oc bracing

REACTIONS. (size) 4=Mechanical, 2=0-8-0, 5=Mechanical
Max Horz 2=224(LC 4)
Max Uplift 4=-143(LC 4), 2=-373(LC 4), 5=-201(LC 5)
Max Grav 4=152(LC 1), 2=464(LC 1), 5=263(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-728/513
BOT CHORD 2-7=-565/682, 6-7=-565/682
WEBS 3-7=-81/257, 3-6=-711/589

NOTES-
1) Wind ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, 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 100 lb uplift at joint(s) except (jt=lb) 4=143, 2=373, 5=201
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 117 lb down and 103 lb up at 1-6-1, 117 lb down and 103 lb up at 1-6-1, 29 lb down and 54 lb up at 4-4-0, 29 lb down and 54 lb up at 4-4-0, and 54 lb down and 116 lb up at 7-1-15, and 54 lb down and 116 lb up at 7-1-15 on top chord, and 99 lb down and 74 lb up at 1-6-1, 99 lb down and 74 lb up at 1-6-1, 69 lb down and 2 lb up at 4-4-0, 69 lb down and 2 lb up at 4-4-0, and 40 lb down and 18 lb up at 7-1-15, and 40 lb down and 18 lb up at 7-1-15 on bottom chord The design/selection of such connection device(s) is the responsibility of others.
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=-54, 5-8=-20
Concentrated Loads (lb)
Vert. 7=4(F=2, B=2) 11=49(F=24, B=24) 12=-63(F=-31, B=-31) 14=70(F=35, B=35) 15=-50(F=-25, B=-25)

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Date:
February 5,2025

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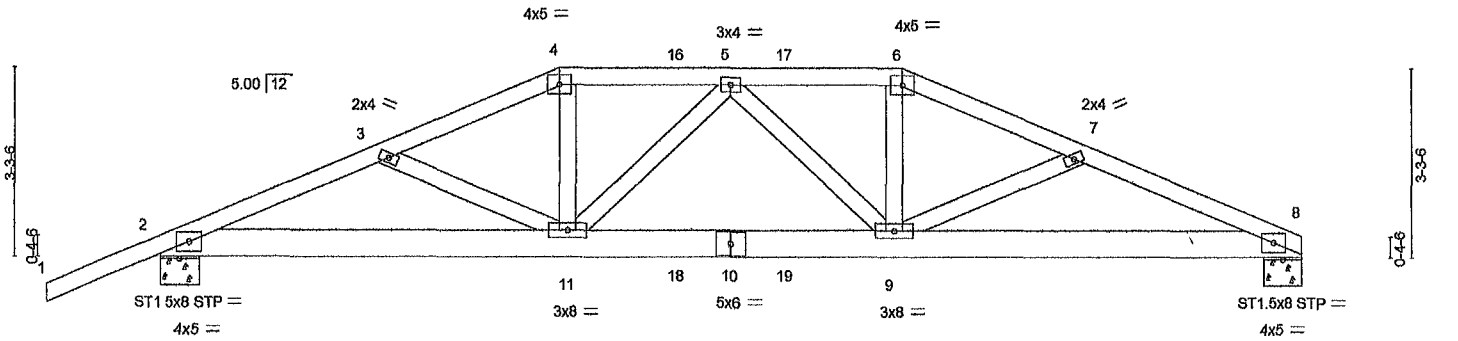
Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN	T36279627
4461086	T01	Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Tue Feb 4 16:41 55 2025 Page 1
ID:g5X?LynzTetcEw796RxbjZzGC8o-PUPoQoT9eEcyaRRM3qFKv5ibFwSAycJM7OMn5szoSrA

-2-0-0	3-11-15	7-0-0	10-0-0	13-0-0	16-0-1	20-0-0
2-0-0	3-11-15	3-0-1	3-0-0	3-0-0	3-0-1	3-11-15

Scale = 1:37 9



7-0-0	13-0-0	20-0-0
7-0-0	6-0-0	7-0-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20 0	Plate Grip DOL	1 25	TC	0.54	Vert(LL)	0.26	9-11	>929	240	MT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	0 74	Vert(CT)	-0.25	9-11	>954	180		
BCLL	0 0 *	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10 0	Code FBC2023/TPI2014		Matrix-MS							Weight. 110 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-6 oc purlins
BOT CHORD Rigid ceiling directly applied or 4-8-14 oc bracing

REACTIONS. (size) 8=0-8-0, 2=0-8-0
Max Horz 2=114(LC 8)
Max Uplift 8=-1015(LC 9), 2=-1095(LC 8)
Max Grav 8=1346(LC 1), 2=1442(LC 1)

FORCES. (lb) - Max. Comp./Max Ten - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-3033/2405, 3-4=-2842/2291, 4-5=-2645/2185, 5-6=-2714/2226, 6-7=-2921/2339, 7-8=-3119/2468
BOT CHORD 2-11=-2223/2768, 9-11=-2162/2766, 8-9=-2212/2859
WEBS 3-11=-187/259, 4-11=-722/902, 6-9=-660/860, 7-9=-210/279

NOTES-
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3 0psf; h=20ft; Cat. II Exp C, Encl , GCpi=0 18, MWFRS (envelope) gable end zone; 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 3-6-0 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 100 lb uplift at joint(s) except (jt=lb) 8=1015, 2=1095
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 29 lb down and 58 lb up at 7-0-0, 19 lb down and 56 lb up at 9-0-12, and 19 lb down and 56 lb up at 10-11-4, and 133 lb down and 191 lb up at 13-0-0 on top chord and 382 lb down and 427 lb up at 7-0-0, 161 lb down and 186 lb up at 9-0-12, and 161 lb down and 186 lb up at 10-11-4, and 382 lb down and 427 lb up at 12-11-4 on bottom chord The design/selection of such connection device(s) is the responsibility of others
9) 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=-54, 4-6=-54, 6-8=-54, 2-8=-20
Concentrated Loads (lb)
Vert: 4=-10(B) 6=-86(B) 11=-382(B) 9=-382(B) 16=-10(B) 17=-10(B) 18=-161(B) 19=-161(B)

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February 5,2025

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Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN	T36279628
4461086	T02	Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Tue Feb 4 16:41 55 2025 Page 1
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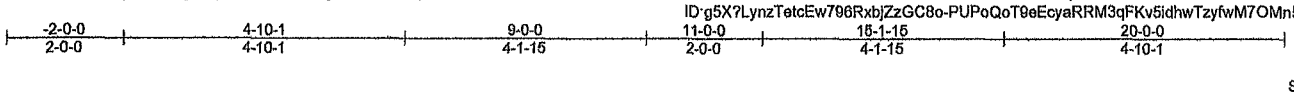

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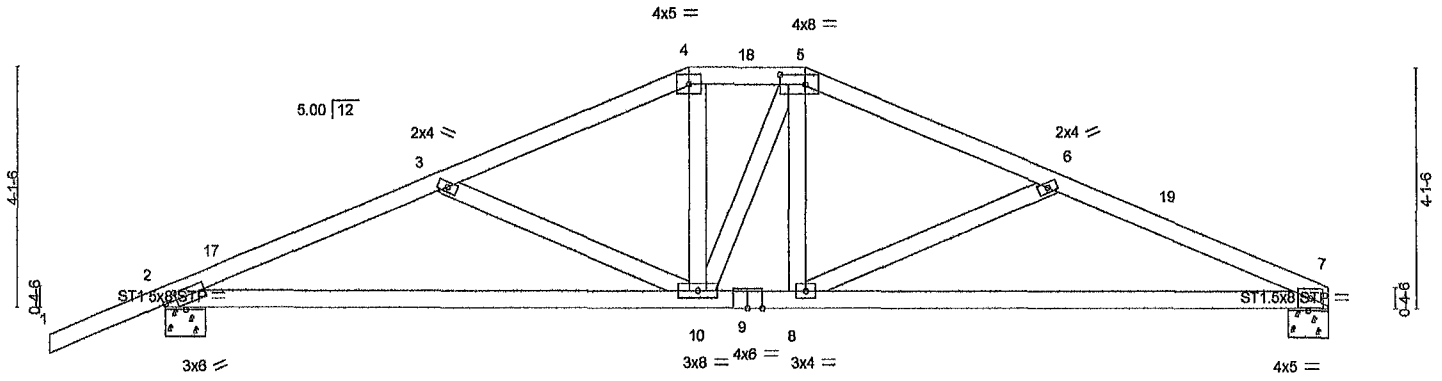

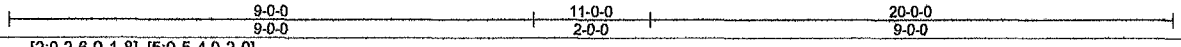

Plate Offsets (X,Y)— [2:0-2-6,0-1-8], [5:0-5-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20 0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0 14	8-13	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	0.69	Vert(CT)	-0.30	8-13	>800	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 18	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10 0	Code FBC2023/TPI2014		Matrix-MS							Weight. 95 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-6-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-3-1 oc bracing

REACTIONS. (size) 7=0-8-0, 2=0-8-0
Max Horz 2=135(LC 16)
Max Uplift 7=-360(LC 13), 2=-449(LC 12)
Max Grav 7=735(LC 1), 2=853(LC 1)

FORCES. (lb) - Max. Comp./Max Ten - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-1414/724, 3-4=-1102/549, 4-5=-979/550, 5-6=-1109/555, 6-7=-1443/730
BOT CHORD 2-10=-663/1284, 8-10=-364/984, 7-8=-615/1317
WEBS 3-10=-348/328, 4-10=-107/282, 5-8=-126/287, 6-8=-380/356

NOTES-
1) Unbalanced roof live loads have been considered for this design
2) Wind. ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4 2psf; BCDL=3 0psf; h=20ft; Cat. II, Exp C, Encl , GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 9-0-0, Zone3 9-0-0 to 11-0-0, Zone2 11-0-0 to 15-4-3 Zone1 15-4-3 to 20-0-0 zone;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 3-6-0 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 100 lb uplift at joint(s) except (jt=lb) 7=360, 2=449

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Chesterfield, MO 63017
Date:
February 5,2025

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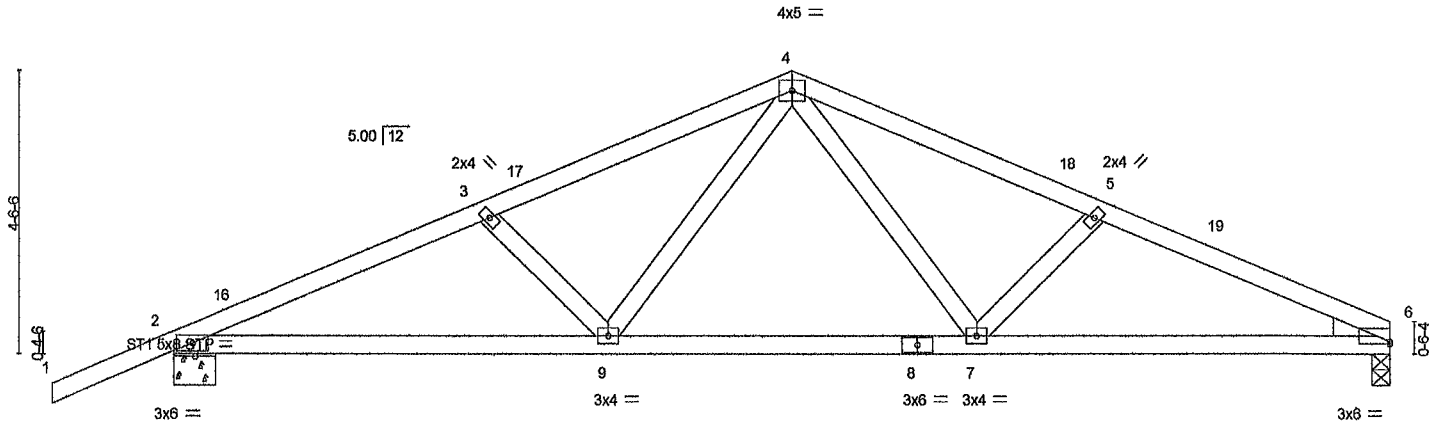
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN	T36279629
4461086	T03	Common	5	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Tue Feb 4 16:41.56 2025 Page 1
ID.g5X?LynzTetcEw706RxbjZzGC8o-tgzAe8UnPYkpCb?YdYnZRJEn6JpZh5aVL25LdJzoSr9

-2-0-0	5-1-5	10-0-0	14-10-11	19-7-8
2-0-0	5-1-5	4-10-11	4-10-11	4-8-13

Scale = 1 34.9



7-0-6	12-11-10	19-7-8
7-0-6	5-11-4	6-7-14

Plate Offsets (X,Y)-- [6 Edge,0-0-7]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	0 17	7-9	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0 22	7-9	>999	180		
BCLL	0 0 *	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0 04	6	n/a	n/a		
BCDL	10 0	Code FBC2023/TPI2014		Matrix-MS							Weight: 88 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Right. 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-1-11 oc bracing

REACTIONS. (size) 6=0-3-8, 2=0-8-0
Max Horz 2=150(LC 12)
Max Uplift 6=-419(LC 13), 2=-510(LC 12)
Max Grav 6=842(LC 1), 2=956(LC 1)

FORCES (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-1716/1043, 3-4=-1532/963, 4-5=-1490/959, 5-6=-1661/1028
BOT CHORD 2-9=-902/1544, 7-9=-533/1047, 6-7=-865/1482
WEBS 4-7=-293/510, 5-7=-242/279, 4-9=-318/563, 3-9=-271/289

NOTES-
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4 2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl., GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 10-0-0, Zone2 10-0-0 to 14-2-15, Zone1 14-2-15 to 19-7-8 zone;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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=419, 2=510
7) 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 (pf)
Vert: 1-4=-54, 4-6=-54, 9-13=-20, 7-9=-60(F=-40), 7-10=-20

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Date:
February 5,2025

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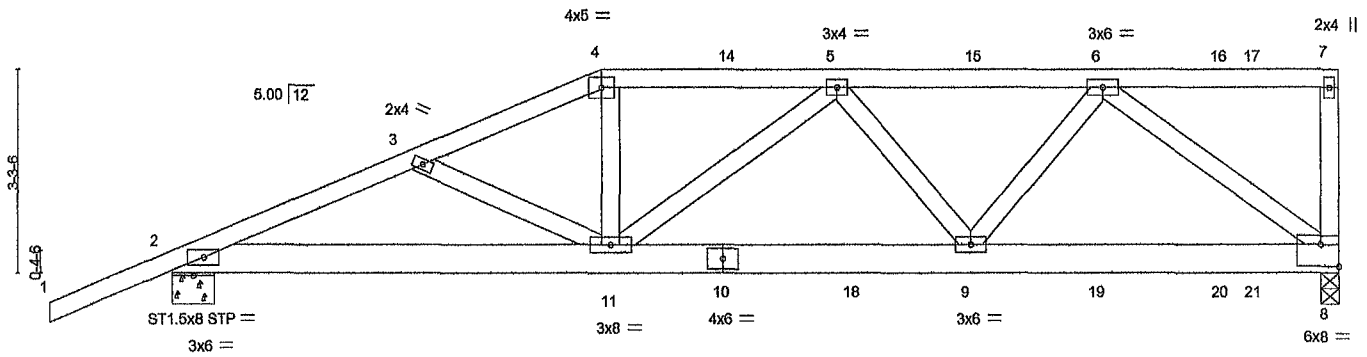
Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN	
4461086	T04	Half Hip Girder	1	1	Job Reference (optional)	T36279630

Builders FirstSource (Lake City FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Tue Feb 4 16:41 57 2025 Page 1
ID:g5X?LynzTetcEw796RxbjZzGC8o-LsWZrUVPArtgqlalAFlo_Wnygj9lQPPfahru9lzoSr8

-2-0-0	4-0-15	7-0-0	10-9-12	15-1-13	18-11-8
2-0-0	4-0-15	2-11-1	3-9-12	4-4-1	3-9-11

Scale = 1:35.2



7-0-0	12-11-13	18-11-8
7-0-0	5-11-13	5-11-11

Plate Offsets (X,Y)-- [8 Edge,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20 0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	0 18	9-11	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	0 70	Vert(CT)	-0 17	9-11	>999	180		
BCLL	0 0 *	Rep Stress Incr	NO	WB	0.82	Horz(CT)	-0 04	8	n/a	n/a		
BCDL	10 0	Code FBC2023/TPI2014		Matrix-MS							Weight: 112 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-0-10 oc bracing

REACTIONS. (size) 8=0-3-8, 2=0-8-0
Max Horz 2=210(LC 8)
Max Uplift 8=-1342(LC 4), 2=-1013(LC 8)
Max Grav 8=1590(LC 1), 2=1326(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-2720/2180, 3-4=-2527/2064, 4-5=-2348/1970, 5-6=-2213/1850
BOT CHORD 2-11=-2113/2481, 9-11=-2001/2381, 8-9=-1279/1523
WEBS 4-11=-615/772, 5-9=-281/252, 6-9=-978/1153, 6-8=-1890/1585

NOTES-
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22 Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl , GCpi=0 18, MWFRS (envelope) gable end zone 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 3-6-0 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 100 lb uplift at joint(s) except (jt=lb) 8=1342, 2=1013.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 29 lb down and 58 lb up at 7-0-0, 19 lb down and 56 lb up at 9-0-12, 19 lb down and 56 lb up at 11-0-12, 19 lb down and 56 lb up at 13-0-12, 19 lb down and 56 lb up at 15-0-12, and 19 lb down and 56 lb up at 17-0-12, and 19 lb down and 56 lb up at 17-7-4 on top chord, and 382 lb down and 427 lb up at 7-0-0, 161 lb down and 186 lb up at 9-0-12, 161 lb down and 186 lb up at 11-0-12, 161 lb down and 186 lb up at 13-0-12 161 lb down and 186 lb up at 15-0-12, and 161 lb down and 186 lb up at 17-0-12, and 161 lb down and 186 lb up at 17-7-4 on bottom chord The design/selection of such connection device(s) is the responsibility of others.
9) 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=-54, 4-7=-54, 2-8=-20

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Date:
February 5,2025

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN
4461086	T04	Half Hip Girder	1	1	T36279630 Job Reference (optional)

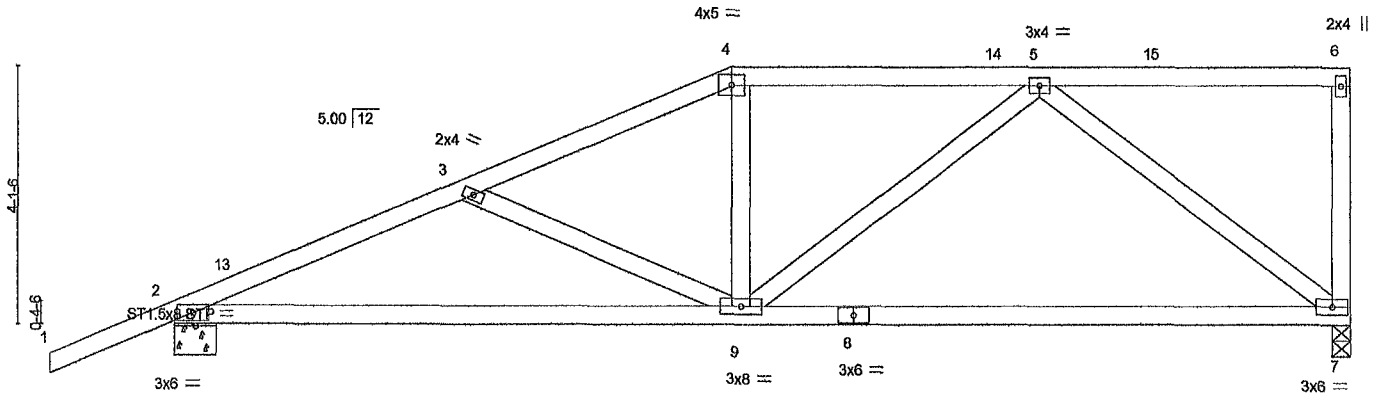
LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert. 4=-10(B) 10=-161(B) 11=-382(B) 5=-10(B) 9=-161(B) 6=-10(B) 14=-10(B) 15=-10(B) 16=-10(B) 17=-10(B) 18=-161(B) 19=-161(B) 20=-161(B) 21=-161(B)

Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN
4461086	T05	Half Hip	1	1	T36279631
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 6 2024 MiTek Industries, Inc. Tue Feb 4 16:41 57 2025 Page 1
ID g5X?LynzTetcEw796RxbjZzGC8o-LsWZrUVPArtgqlalAFIo_Wnxtj6RQSzfahru9lzoSr8

-2-0-0 2-0-0 | 4-10-1 4-10-1 | 9-0-0 4-1-15 | 13-11-11 4-11-12 | 18-11-8 4-11-13

Scale = 1 34.9



9-0-0 9-0-0 | 18-11-8 9-11-8

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20 0	Plate Grip DOL 1.25	TC 0.53	Vert(LL)	-0.21	7-9	>999	240	MT20	244/190
TCDL 7 0	Lumber DOL 1 25	BC 0.88	Vert(CT)	-0 44	7-9	>518	180		
BCLL 0 0 *	Rep Stress Incr YES	WB 0.59	Horz(CT)	0.03	7	n/a	n/a		
BCDL 10 0	Code FBC2023/TPI2014	Matrix-MS						Weight: 96 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-6-11 oc bracing

REACTIONS. (size) 2=0-8-0, 7=0-3-8
Max Horz 2=258(LC 12)
Max Uplift 2=-457(LC 12), 7=-383(LC 8)
Max Grav 2=810(LC 1), 7=690(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-1313/707, 3-4=-1013/499, 4-5=-895/504
BOT CHORD 2-9=-800/1188, 7-9=-393/652
WEBS 3-9=-327/323, 5-9=-156/372, 5-7=-797/497

NOTES-
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3 0psf; h=20ft, Cat. II, Exp C, Encl., GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 18-9-12 zone;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 3-6-0 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 100 lb uplift at joint(s) except (jt=lb) 2=457, 7=383.

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Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN	T36279632
4461086	T06	Half Hip	1	1	Job Reference (optional)	

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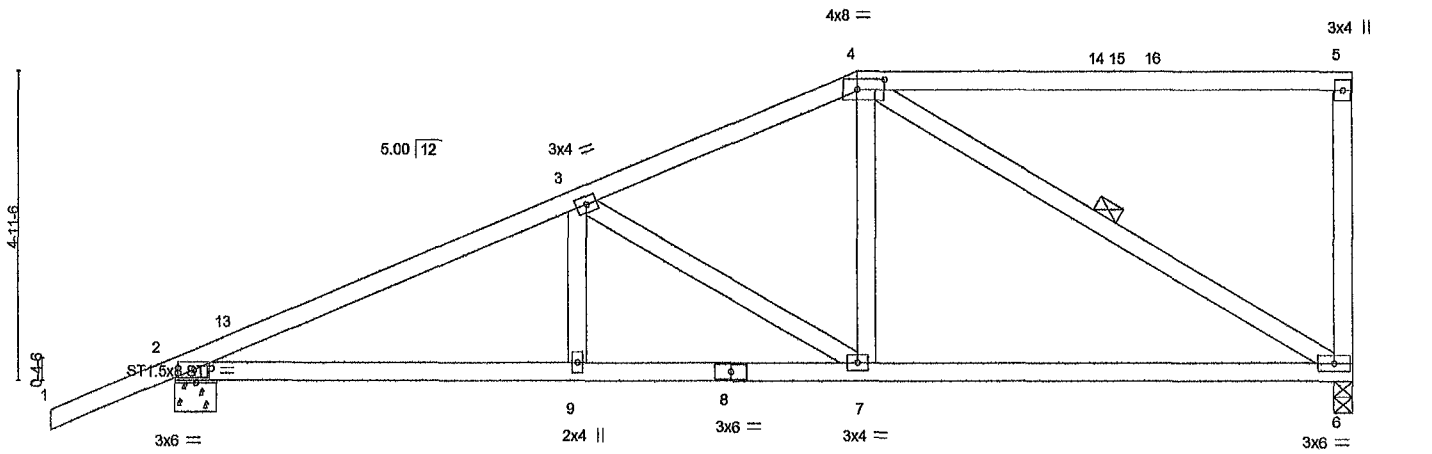
-2-0-0 2-0-0 | 6-6-0 6-6-0 | 11-0-0 4-6-0 | 18-11-8 7-11-8

Scale = 1 34.9



6-6-0 6-6-0 | 11-0-0 4-6-0 | 18-11-8 7-11-8

Plate Offsets (X,Y)-- [4:0-5-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20 0	Plate Grip DOL	1.25	TC	0 74	Vert(LL)	-0 11	6-7	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.22	6-7	>999	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0 03	6	n/a	n/a		
BCDL	10 0	Code FBC2023/TPI2014		Matrix-MS							Weight: 98 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-8-1 oc bracing
WEBS 1 Row at midpt 4-6

REACTIONS. (size) 2=0-8-0, 6=0-3-8
Max Horz 2=307(LC 12)
Max Uplift 2=-452(LC 12), 6=-373(LC 8)
Max Grav 2=810(LC 1), 6=690(LC 1)

FORCES. (lb) - Max. Comp./Max Ten - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-1261/621, 3-4=-817/421
BOT CHORD 2-9=-746/1111, 7-9=-746/1111, 6-7=-437/722
WEBS 3-7=-466/365, 4-7=-135/453, 4-6=-795/489

NOTES-
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl , GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 18-9-12 zone;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 3-6-0 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 100 lb uplift at joint(s) except (jt=lb) 2=452, 6=373

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Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN
4461088	T07	Hip	1	1	T36279633
					Job Reference (optional)

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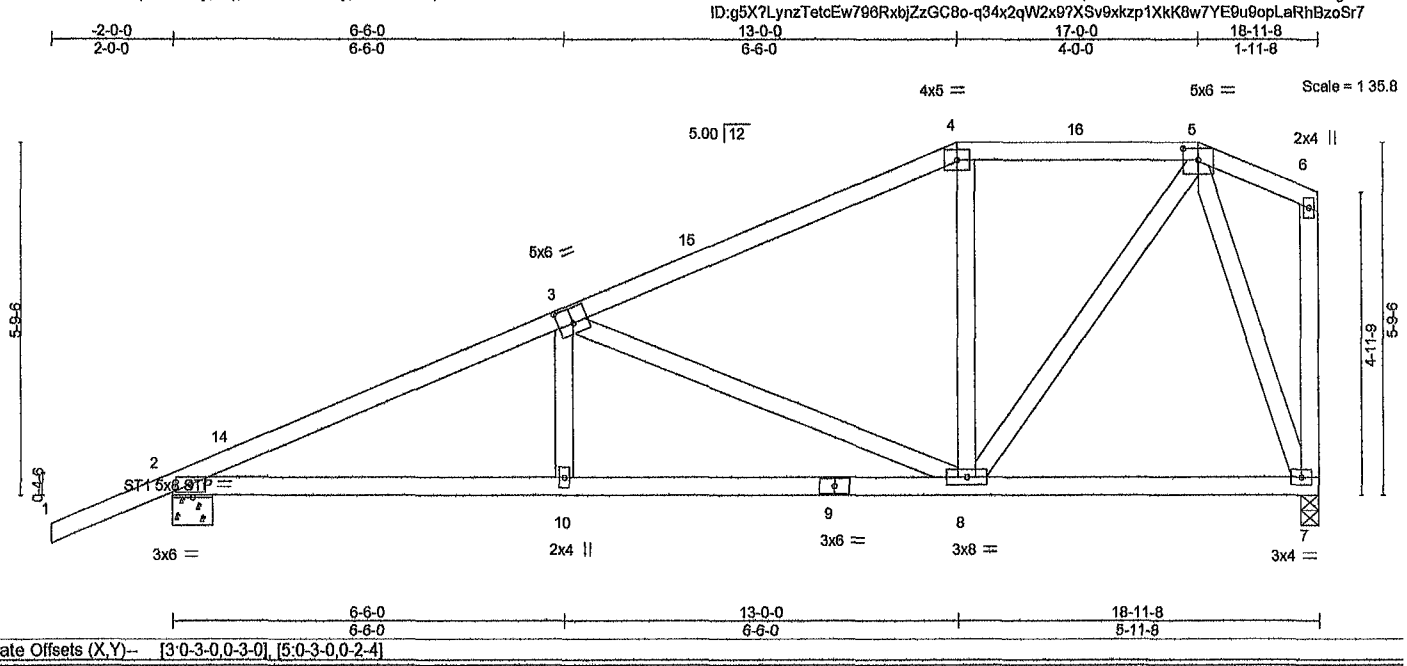

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [5:0-3-0,0-2-4]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1 25	TC 0.45	Vert(LL) 0.07 10-13 >999 240	MT20 244/190
TCDL 7 0	Lumber DOL 1 25	BC 0.46	Vert(CT) -0.10 10-13 >999 180	
BCLL 0 0 *	Rep Stress Incr YES	WB 0.66	Horz(CT) 0 03 7 n/a n/a	
BCDL 10 0	Code FBC2023/TPI2014	Matrix-MS		Weight: 108 lb FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-5 oc purlins except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-7-9 oc bracing

REACTIONS. (size) 2=0-8-0, 7=0-3-8
Max Horz 2=330(LC 12)
Max Uplift 2=-446(LC 12), 7=-356(LC 12)
Max Grav 2=810(LC 1), 7=690(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-1288/619, 3-4=-641/305, 4-5=-521/338
BOT CHORD 2-10=-772/1140, 8-10=-773/1135
WEBS 3-10=0/271, 3-8=-667/498, 5-8=-344/556, 5-7=-634/375

NOTES-
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3 0psf; h=20ft; Cat. II, Exp C, Encl , GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 13-0-0, Zone3 13-0-0 to 18-9-12 zone 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 3-6-0 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 100 lb uplift at joint(s) except (jt=lb) 2=446, 7=356

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Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN
4461086	T08	Common	3	1	T36279634
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Tue Feb 4 16:41 59 2025 Page 1
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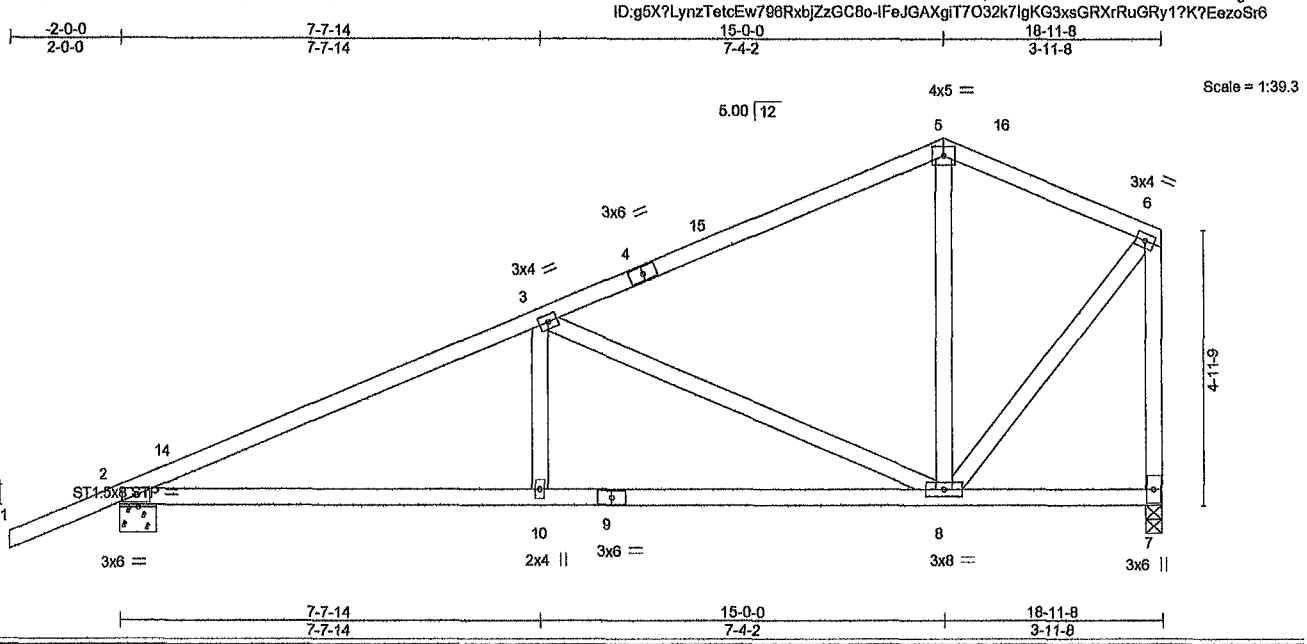

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 20 0	Plate Grip DOL 1 25	TC 0.59	Vert(LL) 0.11 10-13 >999 240	MT20 244/190
TCDL 7 0	Lumber DOL 1 25	BC 0.59	Vert(CT) -0 17 10-13 >999 180	
BCLL 0 0 *	Rep Stress Incr YES	WB 0 98	Horz(CT) 0 03 7 n/a n/a	
BCDL 10 0	Code FBC2023/TPI2014	Matrix-MS		Weight 102 lb FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-7-13 oc bracing

REACTIONS. (size) 2=0-8-0, 7=0-3-8
Max Horz 2=350(LC 12)
Max Uplift 2=-439(LC 12), 7=-363(LC 12)
Max Grav 2=810(LC 1), 7=690(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-1232/590, 3-5=-473/271, 5-6=-418/292, 6-7=-666/468
BOT CHORD 2-10=-736/1080, 8-10=-736/1080
WEBS 3-10=0/324, 3-8=-795/582, 6-8=-335/561

NOTES-
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4 2psf; BCDL=3 0psf; h=20ft; Cat. II, Exp C, Encl , GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 15-0-0, Zone3 15-0-0 to 18-9-12 zone,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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=439 7=363

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Date:
February 5,2025

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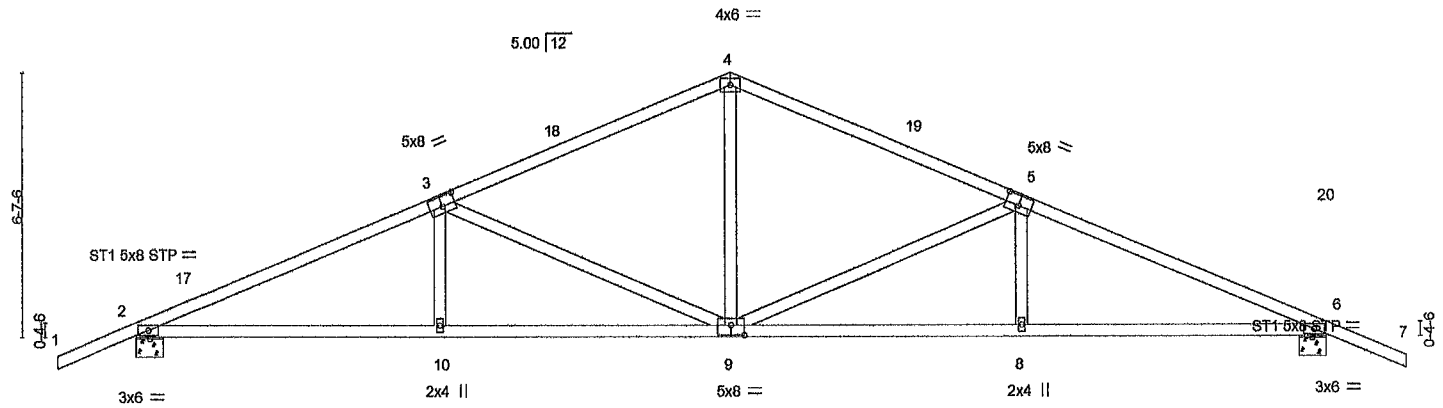
Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN
4461086	T09	Common	4	1	T36279635
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Tue Feb 4 16:41.59 2025 Page 1
ID:g5X?LynzTetcEw796RxbjZzGC8o-IFeJGAXgiT7O32k7IgKG3xsGjXqouHry1?K?EezoSr6

-2-0-0	7-7-14	15-0-0	22-4-2	30-0-0	32-0-0
2-0-0	7-7-14	7-4-2	7-4-2	7-7-14	2-0-0

Scale = 1 54.6



7-7-14	15-0-0	22-4-2	30-0-0
7-7-14	7-4-2	7-4-2	7-7-14

Plate Offsets (X,Y)— [3:0-4-0,0-3-0], [5:0-4-0,0-3-0], [9:0-4-0,0-3-0]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 20 0	Plate Grip DOL 1.25	TC 0.64	Vert(LL) 0 16 10-13 >999 240	MT20 244/190
TCDL 7 0	Lumber DOL 1.25	BC 0 70	Vert(CT) -0.26 9-10 >999 180	
BCLL 0 0 *	Rep Stress Incr YES	WB 0.95	Horz(CT) 0 09 6 n/a n/a	
BCDL 10 0	Code FBC2023/TPI2014	Matrix-MS		Weight: 140 lb FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-3-12 oc purlins
BOT CHORD Rigid ceiling directly applied or 5-9-1 oc bracing

REACTIONS. (size) 2=0-8-0, 6=0-8-0
Max Horz 2=-177(LC 13)
Max Uplift 2=-624(LC 12), 6=-624(LC 13)
Max Grav 2=1218(LC 1), 6=1218(LC 1)

FORCES. (lb) - Max Comp./Max. Ten. - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-2260/1038, 3-4=-1531/790, 4-5=-1531/790, 5-6=-2260/1038
BOT CHORD 2-10=-992/2026, 9-10=-992/2026, 8-9=-844/2026, 6-8=-843/2026
WEBS 4-9=-287/757, 5-9=-774/573, 5-8=0/308, 3-9=-774/572, 3-10=0/308

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3 0psf; h=20ft, Cat. II, Exp C, Encl , GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 32-0-0 zone;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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=624, 6=624.

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February 5,2025

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Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN	T36279636
4461086	T10	Roof Special	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.630 s Nov 8 2024 MiTek Industries, Inc. Tue Feb 4 16:42:00 2025 Page 1
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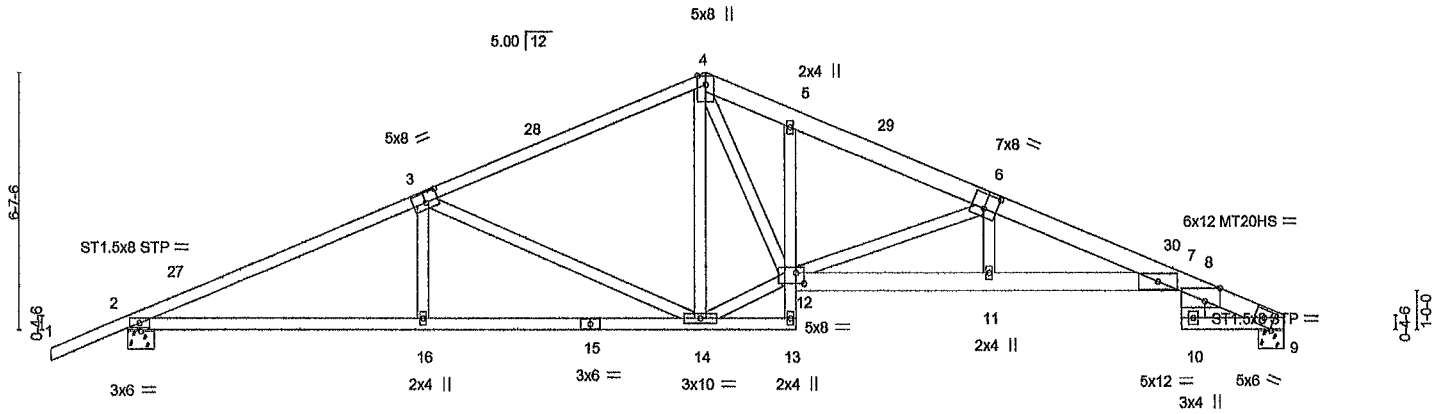

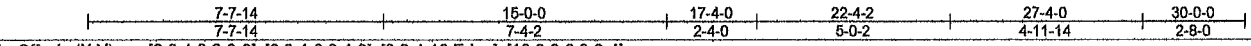

Plate Offsets (X,Y)-- [3.0-4-0,0-3-0], [6 0-4-0,0-4-8], [8 0-4-12,Edge], [12 0-2-8,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.84	Vert(LL)	0.32	11-22	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0 70	Vert(CT)	-0 48	11-22	>747	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.26	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 174 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No 2 *Except*
4-6 2x6 SP No.2, 6-9 2x6 SP 2400F 2.0E or 2x6 SP M 26
BOT CHORD 2x4 SP No.2 *Except*
5-13 2x4 SP No.3, 7-12 2x6 SP 2400F 2.0E or 2x6 SP M 26
8-10 2x8 SP 2400F 2 0E
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-8-8 oc bracing

REACTIONS. (size) 2=0-8-0, 9=0-8-0
Max Horz 2=199(LC 12)
Max Uplift 2=-621(LC 12), 9=-530(LC 13)
Max Grav 2=1209(LC 1), 9=1094(LC 1)

FORCES. (lb) - Max Comp./Max Ten - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-2237/1049, 3-4=-1514/790, 4-5=-2002/1080, 5-6=-2070/1038, 6-7=-3308/1577, 7-8=-361/234, 8-9=-1707/899
BOT CHORD 2-16=-1005/2006, 14-16=-1005/2005, 11-12=-1360/3102, 7-11=-1364/3113, 9-10=-706/1393
WEBS 3-16=0/313, 3-14=-762/561, 12-14=-484/1337, 4-12=-643/1307, 6-12=-1360/774, 6-11=-156/479

NOTES-
1) Unbalanced roof live loads have been considered for this design
2) Wind. ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3 0psf; h=20ft; Cat. II, Exp C, Encl , GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 29-8-0 zone,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) All plates are MT20 plates unless otherwise indicated
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 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 100 lb uplift at joint(s) except (jt=lb) 2=621, 9=530

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Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN	T36279637
4461086	T11	Hip Girder	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Tue Feb 4 16:42 02 2025 Page 1
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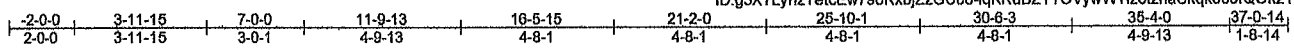

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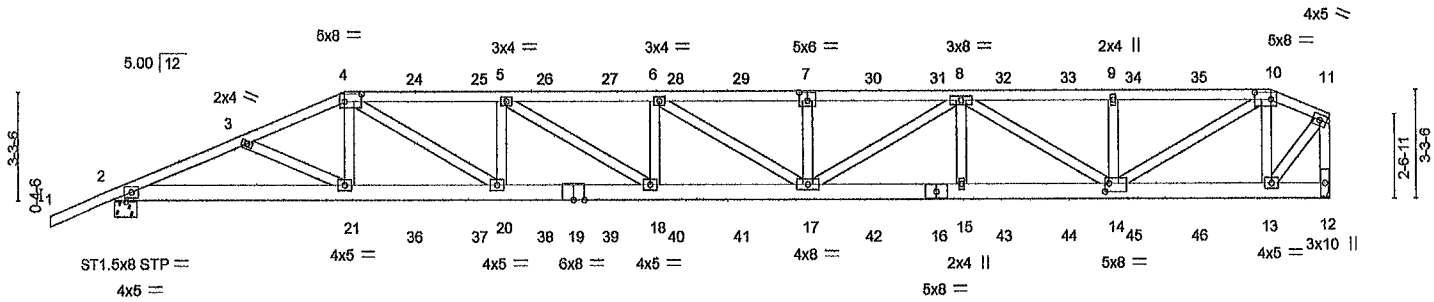

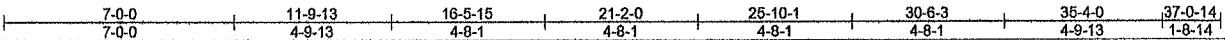

Plate Offsets (X,Y)-- [4:0-6-4,0-2-12], [7:0-3-0,0-3-0], [10:0-6-0,0-2-8], [14:0-1-8,0-3-0]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 20 0	Plate Grip DOL 1 25	TC 0 77	Vert(LL) 0 78 17-18 >566 240	MT20 244/190
TCDL 7 0	Lumber DOL 1 25	BC 0.92	Vert(CT) -0 76 17-18 >581 180	
BCLL 0 0 *	Rep Stress Incr NO	WB 0.83	Horz(CT) -0 12 12 n/a n/a	
BCDL 10 0	Code FBC2023/TPI2014	Matrix-MS		Weight: 459 lb FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-7-10 oc bracing

REACTIONS. (size) 2=0-8-0 12=Mechanical
Max Horz 2=188(LC 29)
Max Uplift 2=-2183(LC 8), 12=-2366(LC 5)
Max Grav 2=2754(LC 1), 12=2868(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-6391/5187, 3-4=-6243/5107, 4-5=-8155/6802, 5-6=-9253/7732, 6-7=-9133/7648, 7-8=-9133/7648, 8-9=-5380/4522, 9-10=-5380/4522, 10-11=-1890/1575, 11-12=-2935/2435
BOT CHORD 2-21=-4857/5858, 20-21=-4761/5782, 18-20=-6776/8155, 17-18=-7706/9253, 15-17=-6607/7909, 14-15=-6607/7909, 13-14=-1366/1644
WEBS 4-21=-559/741, 4-20=-2386/2814, 5-20=-990/841, 5-18=-1097/1332, 7-17=-265/243, 8-17=-1249/1443, 8-15=-423/554, 8-14=-2978/2487, 9-14=-286/262, 10-14=-3653/4365, 10-13=-1720/1446, 11-13=-2294/2757

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.
Webs 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) Unbalanced roof live loads have been considered for this design
4) Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4 2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl , GCpi=0 18, MWFRS (envelope) gable end zone, 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=2183, 12=2366

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Date:
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Continued on page 2

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NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 29 lb down and 58 lb up at 7-0-0, 19 lb down and 56 lb up at 9-0-12, 19 lb down and 56 lb up at 11-0-12, 19 lb down and 56 lb up at 13-0-12, 19 lb down and 56 lb up at 15-0-12, 19 lb down and 56 lb up at 17-0-12, 19 lb down and 56 lb up at 19-0-12, 19 lb down and 56 lb up at 21-0-12, 19 lb down and 56 lb up at 23-0-12, 19 lb down and 56 lb up at 25-0-12, 19 lb down and 56 lb up at 27-0-12, 19 lb down and 56 lb up at 29-0-12, 19 lb down and 56 lb up at 31-0-12, and 19 lb down and 56 lb up at 33-0-12, and 25 lb down and 57 lb up at 35-4-0 on top chord and 382 lb down and 427 lb up at 7-0-0, 161 lb down and 186 lb up at 9-0-12, 161 lb down and 186 lb up at 11-0-12, 161 lb down and 186 lb up at 13-0-12, 161 lb down and 186 lb up at 15-0-12, 161 lb down and 186 lb up at 17-0-12, 161 lb down and 186 lb up at 19-0-12, 161 lb down and 186 lb up at 21-0-12, 161 lb down and 186 lb up at 23-0-12, 161 lb down and 186 lb up at 25-0-12, 161 lb down and 186 lb up at 27-0-12, 161 lb down and 186 lb up at 29-0-12, 161 lb down and 186 lb up at 31-0-12, and 161 lb down and 186 lb up at 33-0-12, and 161 lb down and 186 lb up at 35-0-12 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 (plf)
   Vert: 1-4=-54, 4-10=-54, 10-11=-54, 2-12=-20
   Concentrated Loads (lb)
   Vert. 4=-10(F) 10=-10(F) 21=-382(F) 7=-10(F) 17=-161(F) 13=-161(F) 16=-161(F) 24=-10(F) 25=-10(F) 26=-10(F) 27=-10(F) 28=-10(F) 29=-10(F) 30=-10(F) 31=-10(F) 32=-10(F) 33=-10(F) 34=-10(F) 35=-10(F) 36=-161(F) 37=-161(F) 38=-161(F) 39=-161(F) 40=-161(F) 41=-161(F) 42=-161(F) 43=-161(F) 44=-161(F) 45=-161(F) 46=-161(F)

Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN
4461086	T12	Hip	1	1	T36279838
					Job Reference (optional)

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ID:g5X?LynzTetcEw796RxbjZzGC8o-iqKRuBZY?OVywWTizotzhaUpDkpO5hxOkzYfryzoSr3

-2-0-0	4-10-1	9-0-0	13-11-4	18-8-0	23-4-12	28-4-0	32-5-15	37-0-14
2-0-0	4-10-1	4-1-15	4-11-4	4-8-12	4-8-12	4-11-4	4-1-15	4-6-15

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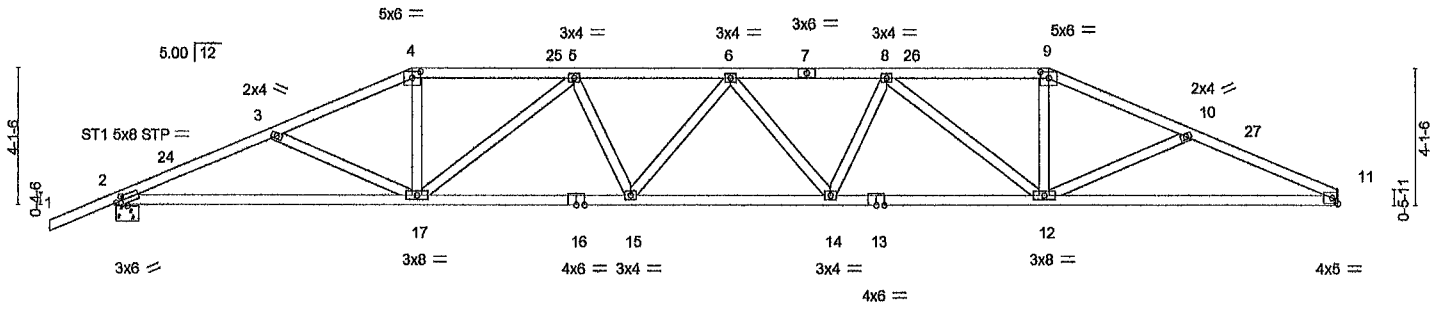

9-0-0	15-7-11	21-8-5	28-4-0	37-0-14
9-0-0	6-7-11	6-0-10	6-7-11	8-8-14

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

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES GRIP
TCLL 20 0	Plate Grip DOL 1 25	TC 0.49	Vert(LL) 0.40 14-15 >999 240	MT20 244/190
TCDL 7 0	Lumber DOL 1 25	BC 0.90	Vert(CT) -0 58 14-15 >765 180	
BCLL 0 0 *	Rep Stress Incr YES	WB 0.67	Horz(CT) 0 17 11 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 3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-5 oc purlins
BOT CHORD Rigid ceiling directly applied or 4-6-11 oc bracing

REACTIONS. (size) 11=Mechanical, 2=0-8-0
Max Horz 2=139(LC 12)
Max Uplift 11=-680(LC 13), 2=-769(LC 12)
Max Grav 11=1369(LC 1), 2=1483(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-2995/1492, 3-4=-2709/1381, 4-5=-2487/1322, 5-6=-3229/1766, 6-8=-3220/1769, 8-9=-2449/1318, 9-10=-2655/1377, 10-11=-2901/1467
BOT CHORD 2-17=-1400/2726, 15-17=-1591/3124, 14-15=-1708/3322, 12-14=-1582/3107, 11-12=-1294/2623
WEBS 3-17=-297/302, 4-17=-348/786, 5-17=-889/533, 5-15=-158/300, 8-14=-165/320, 8-12=-915/542, 9-12=-336/758, 10-12=-229/279

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3 0psf; h=20ft, Cat. II, Exp C, Encl , GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 28-4-0, Zone2 28-4-0 to 32-8-3, Zone1 32-8-3 to 37-0-14 zone,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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=680, 2=769

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Chesterfield, MO 63017
Date:
February 5,2025

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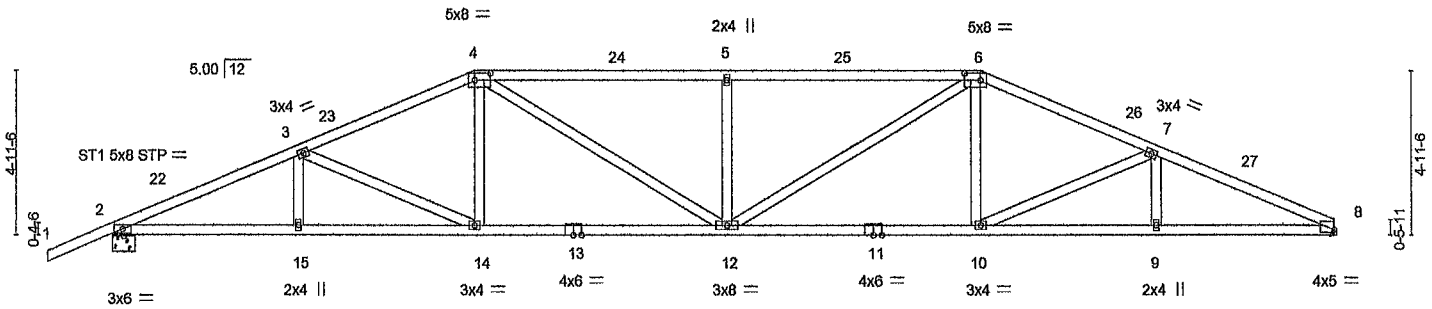
Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN
4461086	T13	Hip	1	1	T36279639
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Tue Feb 4 16:42:03 2025 Page 1
ID g5X?LynzTetcEw796RxbjZzGC8o-A0uq6XaAmhdpYg2uXWPCEn1wz89Pq96XydICNPzoSr2

-2-0-0	5-7-5	11-0-0	18-8-0	26-4-0	31-8-11	37-0-14
2-0-0	5-7-5	5-4-11	7-8-0	7-8-0	5-4-11	5-4-3

Scale = 1:65.7



5-7-5	11-0-0	18-8-0	26-4-0	31-8-11	37-0-14
5-7-5	5-4-11	7-8-0	7-8-0	5-4-11	5-4-3

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.75	Vert(LL)	0.30	12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.47	12-14	>944	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.15	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 184 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No 2 *Except*
4-6 2x4 SP No 1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins
BOT CHORD Rigid ceiling directly applied or 5-0-11 oc bracing

REACTIONS. (size) 8=Mechanical, 2=0-8-0
Max Horz 2=159(LC 12)
Max Uplift 8=-678(LC 13), 2=-767(LC 12)
Max Grav 8=1369(LC 1), 2=1483(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-3005/1444, 3-4=-2545/1264, 4-5=-2807/1517, 5-6=-2807/1517, 6-7=-2522/1265, 7-8=-2908/1413
BOT CHORD 2-15=-1371/2725, 14-15=-1371/2725, 12-14=-1041/2307, 10-12=-1022/2287, 9-10=-1227/2626, 8-9=-1227/2626
WEBS 3-14=-472/363, 4-14=-110/411, 4-12=-408/716, 5-12=-475/434, 6-12=-416/738, 6-10=-101/386, 7-10=-391/335

NOTES-
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl , GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 26-4-0, Zone2 26-4-0 to 30-6-15, Zone1 30-6-15 to 37-0-14 zone;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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=678, 2=767

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February 5,2025

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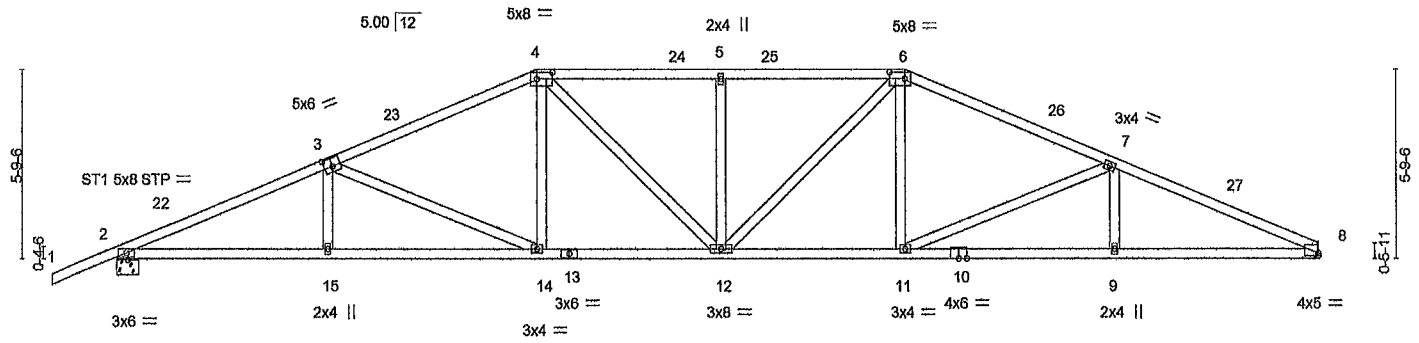
Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN T36279640
4461086	T14	Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Tue Feb 4 16:42:04 2025 Page 1
ID:g5X?LynzTetcEw798RxbjZzGC8o-eCRCJtaoX?lgAqd55DwRm?Z4CYW?ZcBhBH1mvrzoSr1

-2-0-0	6-6-1	13-0-0	18-8-0	24-4-0	30-9-15	37-0-14
2-0-0	6-6-1	6-5-15	5-8-0	5-8-0	6-5-15	6-2-15

Scale = 1:66.8



6-6-1	13-0-0	18-8-0	24-4-0	30-9-15	37-0-14
6-6-1	6-5-15	5-8-0	5-8-0	6-5-15	6-2-15

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20 0	Plate Grip DOL	1.25	TC	0 78	Vert(LL)	0.26	12	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	0.82	Vert(CT)	-0 40	12-14	>999	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.14	8	n/a	n/a		
BCDL	10 0	Code FBC2023/TPI2014		Matrix-MS							Weight. 190 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins
BOT CHORD Rigid ceiling directly applied or 5-0-9 oc bracing

REACTIONS. (size) 8=Mechanical, 2=0-8-0
Max Horz 2=180(LC 12)
Max Uplift 8=-675(LC 13), 2=-764(LC 12)
Max Grav 8=1369(LC 1), 2=1483(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-2981/1419, 3-4=-2368/1136, 4-5=-2340/1217, 5-6=-2340/1217, 6-7=-2356/1133, 7-8=-2906/1398
BOT CHORD 2-15=-1359/2698, 14-15=-1360/2694, 12-14=-928/2128, 11-12=-862/2118, 9-11=-1206/2622, 8-9=-1206/2622
WEBS 3-15=0/262 3-14=-632/474, 4-14=-152/435, 4-12=-267/437, 5-12=-340/308, 6-12=-272/451, 6-11=-143/415, 7-11=-569/452

NOTES-
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl , GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 24-4-0, Zone2 24-4-0 to 28-6-15, Zone1 28-6-15 to 37-0-14 zone;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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=675, 2=764

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February 5,2025

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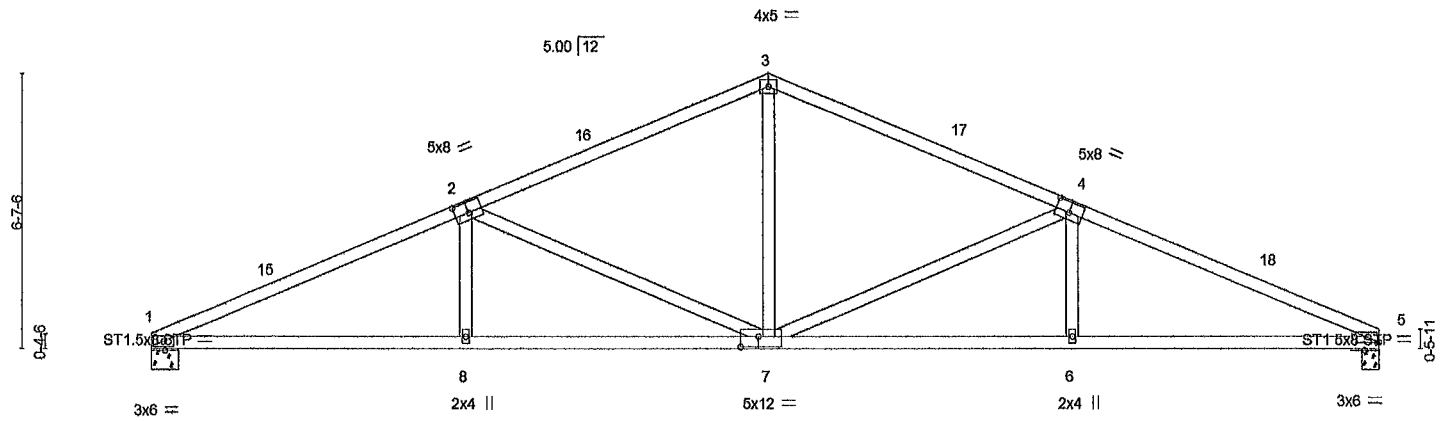
Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN	T36279641
4461086	T15	Common	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Tue Feb 4 16:42 04 2025 Page 1
ID:g5X?LynzTetcEw796RxbjZzGC8o-eCRCJtaoX?lgAqd55DwRm?Z69YXDZWahBH1mvrzoSr1

7-7-14 / 7-7-14 | 15-0-0 / 7-4-2 | 22-4-2 / 7-4-2 | 29-8-14 / 7-4-12

Scale = 1:52.5



7-7-14 / 7-7-14 | 15-0-0 / 7-4-2 | 22-4-2 / 7-4-2 | 29-8-14 / 7-4-12

Plate Offsets (X,Y)-- [2:0-4-0,0-3-0], [4:0-4-0,0-3-0], [5.0-0-8,0-0-3], [7:0-5-4,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	0.19	8-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.27	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.09	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 133 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-5 oc purlins
BOT CHORD Rigid ceiling directly applied or 5-5-13 oc bracing

REACTIONS. (size) 1=0-8-0, 5=0-4-14
Max Horz 1=159(LC 12)
Max Uplift 1=-537(LC 12), 5=-533(LC 13)
Max Grav 1=1100(LC 1), 5=1100(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown
TOP CHORD 1-2=-2277/1096, 2-3=-1526/814, 3-4=-1525/813, 4-5=-2214/1068
BOT CHORD 1-8=-1040/2045, 7-8=-1041/2044, 6-7=-887/1979, 5-6=-887/1979
WEBS 3-7=-311/751, 4-7=-737/562, 4-6=0/289, 2-7=-800/596, 2-8=0/310

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl., GCpi=0.18, MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 29-8-14 zone;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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=537, 5=533

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February 5,2025

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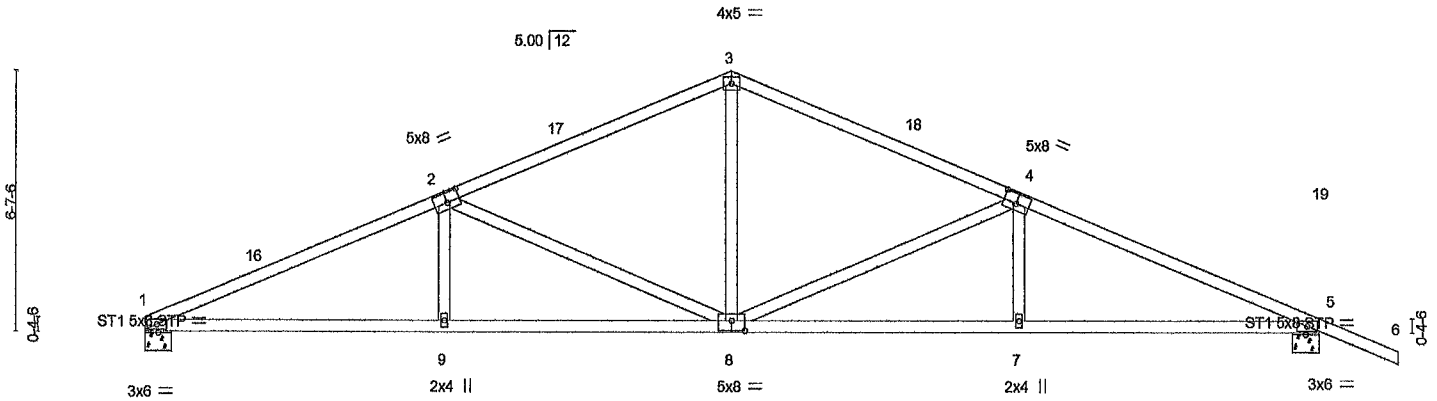
Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN
4461086	T16	Common	1	1	T36279642
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Tue Feb 4 16:42:05 2025 Page 1
ID:g5X?LynzTetcEw796RxbjZzGC8o-6P?aXDbRIJtXnzBHexRgJC6HuysQIzoqQxnJRHzoSr0

7-7-14 | 15-0-0 | 22-4-2 | 30-0-0 | 32-0-0
7-7-14 | 7-4-2 | 7-4-2 | 7-7-14 | 2-0-0

Scale = 1.55.3



7-7-14 | 15-0-0 | 22-4-2 | 30-0-0
7-7-14 | 7-4-2 | 7-4-2 | 7-7-14

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20 0	Plate Grip DOL	1 25	TC	0 66	Vert(LL)	0 19	9-12	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	0 75	Vert(CT)	-0.27	7-8	>999	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 98	Horz(CT)	0 09	5	n/a	n/a		
BCDL	10 0	Code FBC2023/TPI2014		Matrix-MS							Weight: 137 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-3 oc purlins
BOT CHORD Rigid ceiling directly applied or 5-6-7 oc bracing.

REACTIONS. (size) 1=0-8-0, 5=0-8-0
Max Horz 1=-197(LC 13)
Max Uplift 1=-539(LC 12), 5=-625(LC 13)
Max Grav 1=1106(LC 1), 5=1222(LC 1)

FORCES. (lb) - Max. Comp./Max Ten - All forces 250 (lb) or less except when shown
TOP CHORD 1-2=-2293/1101, 2-3=-1540/819, 3-4=-1540/795, 4-5=-2269/1065
BOT CHORD 1-9=-1022/2060, 8-9=-1022/2059, 7-8=-871/2034, 5-7=-871/2035
WEBS 3-8=-315/766, 4-8=-774/574, 4-7=0/309, 2-8=-802/597, 2-9=0/311

NOTES-
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3 0psf; h=20ft; Cat. II, Exp C, Encl , GCpi=0 18 MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 15-0-0, Zone2 15-0-0 to 19-2-15 Zone1 19-2-15 to 32-0-0 zone;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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=539, 5=625

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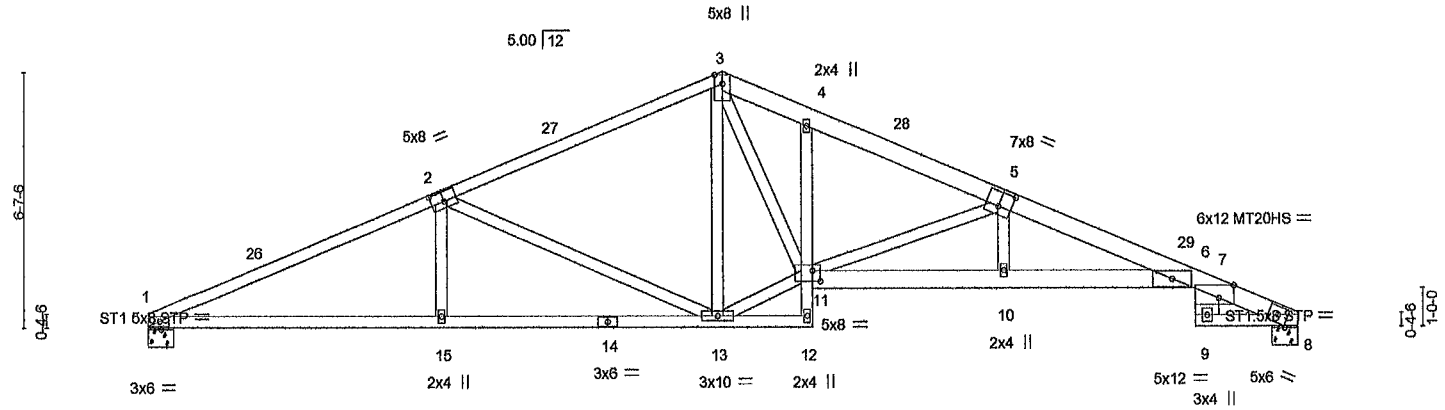
Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN T36279643
4461086	T17	Roof Special	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Tue Feb 4 16:42 05 2025 Page 1
ID:g5X?LynzTetcEw796RxbjZzGC8o-6P?aXDbRIJtXnzBHexRgJC6EuysWl_VqQxnJRHzoSr0

7-7-14	15-0-0	17-4-0	22-4-2	27-4-0	30-0-0
7-7-14	7-4-2	2-4-0	5-0-2	4-11-14	2-8-0

Scale = 1:56.5



7-7-14	15-0-0	17-4-0	22-4-2	27-4-0	30-0-0
7-7-14	7-4-2	2-4-0	5-0-2	4-11-14	2-8-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.85	Vert(LL)	0 32	10-21	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1.25	BC	0 74	Vert(CT)	-0.48	10-21	>744	180	MT20HS	187/143
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 94	Horz(CT)	0.26	8	n/a	n/a		
BCDL	10 0	Code FBC2023/TPI2014		Matrix-MS							Weight: 171 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No 2 *Except*
3-5 2x6 SP No.2, 5-8. 2x6 SP 2400F 2.0E or 2x6 SP M 26
BOT CHORD 2x4 SP No 2 *Except*
4-12 2x4 SP No.3, 6-11 2x6 SP 2400F 2 0E or 2x6 SP M 26
7-9 2x8 SP 2400F 2.0E
WEBS 2x4 SP No 3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-6-7 oc purlins
BOT CHORD Rigid ceiling directly applied or 5-5-15 oc bracing

REACTIONS. (size) 1=0-8-0, 8=0-8-0
Max Horz 1=158(LC 12)
Max Uplift 1=-536(LC 12), 8=-532(LC 13)
Max Grav 1=1097(LC 1), 8=1098(LC 1)

FORCES. (lb) - Max. Comp./Max Ten - All forces 250 (lb) or less except when shown
TOP CHORD 1-2=-2271/1096, 2-3=-1523/813, 3-4=-2015/1119, 4-5=-2082/1046, 5-6=-3322/1586, 6-7=-363/235, 7-8=-1714/903
BOT CHORD 1-15=-1035/2040, 13-15=-1035/2039, 10-11=-1376/3115, 6-10=-1379/3126, 8-9=-709/1398
WEBS 2-15=0/316, 2-13=-791/587, 11-13=-490/1343, 3-11=-671/1316, 5-11=-1363/775, 5-10=-156/480

NOTES-
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3 0psf; h=20ft, Cat II, Exp C, Encl , GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 29-8-0 zone,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) All plates are MT20 plates unless otherwise indicated
5) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 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 100 lb uplift at joint(s) except (jt=lb) 1=536, 8=532.

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Chesterfield, MO 63017
Date:
February 5,2025

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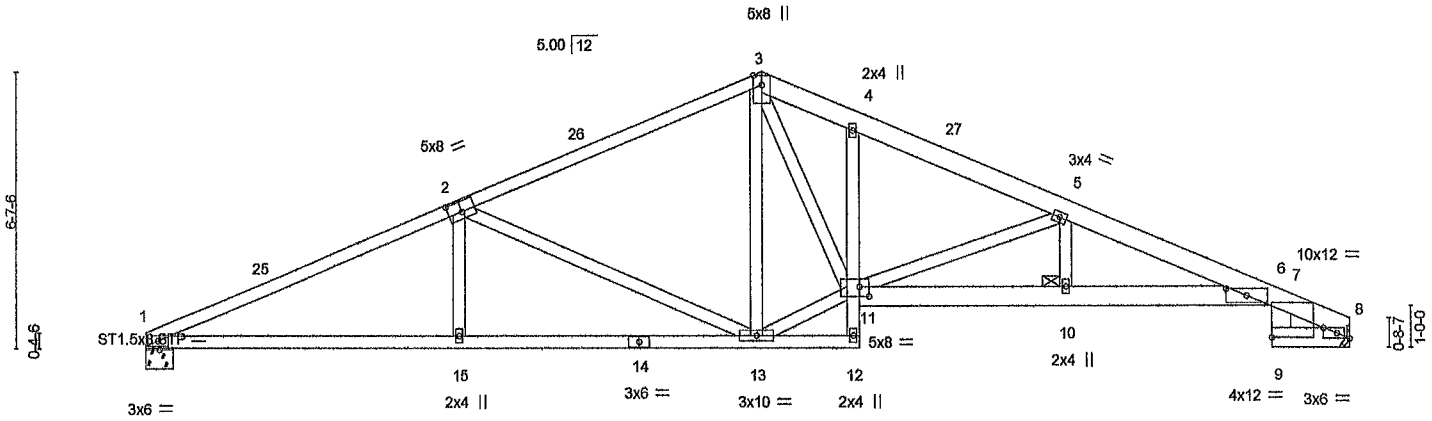
Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN T36279644
4461086	T18	Roof Special	4	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Tue Feb 4 16:42 06 2025 Page 1
ID:g5X?LynzTetcEw796RxbjZzGC8o-bbZykZc33c?OP7mTCeyvrQfSGLCs1RI_ebWs_kzoSr?

7-7-14	15-0-0	17-4-0	22-4-2	27-4-0	29-2-4
7-7-14	7-4-2	2-4-0	5-0-2	4-11-14	1-10-4

Scale = 1 52.4



7-7-14	15-0-0	17-4-0	22-4-2	27-4-0	29-2-4
7-7-14	7-4-2	2-4-0	5-0-2	4-11-14	1-10-4

Plate Offsets (X,Y)-- [2:0-4-0,0-3-0], [6:0-5-14,0-2-0], [7:Edge,0-0-4], [8:0-3-14,Edge], [11:0-2-12,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.68	Vert(LL)	0.23	10-24	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1.25	BC	0 73	Vert(CT)	-0.35	10-24	>993	180		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.18	8	n/a	n/a		
BCDL	10 0	Code FBC2023/TPI2014		Matrix-MS							Weight: 168 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
3-8 2x6 SP 2400F 2.0E or 2x6 SP M 26
BOT CHORD 2x4 SP No.2 *Except*
4-12. 2x4 SP No.3, 6-11 2x6 SP 2400F 2 0E or 2x6 SP M 26
7-9,8-9 2x6 SP No.2
WEBS 2x4 SP No 3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-3-0 oc purlins
BOT CHORD Rigid ceiling directly applied or 5-6-3 oc bracing
JOINTS 1 Brace at Jt(s): 10

REACTIONS. (size) 8=Mechanical, 1=0-8-0
Max Horz 1=164(LC 12)
Max Uplift 8=-521(LC 13), 1=-530(LC 12)
Max Grav 8=1075(LC 1), 1=1080(LC 1)

FORCES. (lb) - Max. Comp./Max Ten. - All forces 250 (lb) or less except when shown
TOP CHORD 1-2=-2226/1075, 2-3=-1478/792, 3-4=-1939/1085, 4-5=-2007/1014, 5-6=-3102/1494, 6-7=-368/229, 7-8=-1220/653
BOT CHORD 1-15=-1027/1999, 13-15=-1027/1998, 10-11=-1291/2909, 6-10=-1291/2909, 7-9=-142/288, 8-9=-384/750
WEBS 2-15=0/317, 2-13=-791/586, 11-13=-487/1315, 3-11=-644/1248, 5-11=-1210/703, 5-10=-120/418

NOTES-
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4 2psf; BCDL=3 0psf h=20ft; Cat. II, Exp C Encl , GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 29-2-4 zone,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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=521, 1=530

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Date:
February 5,2025

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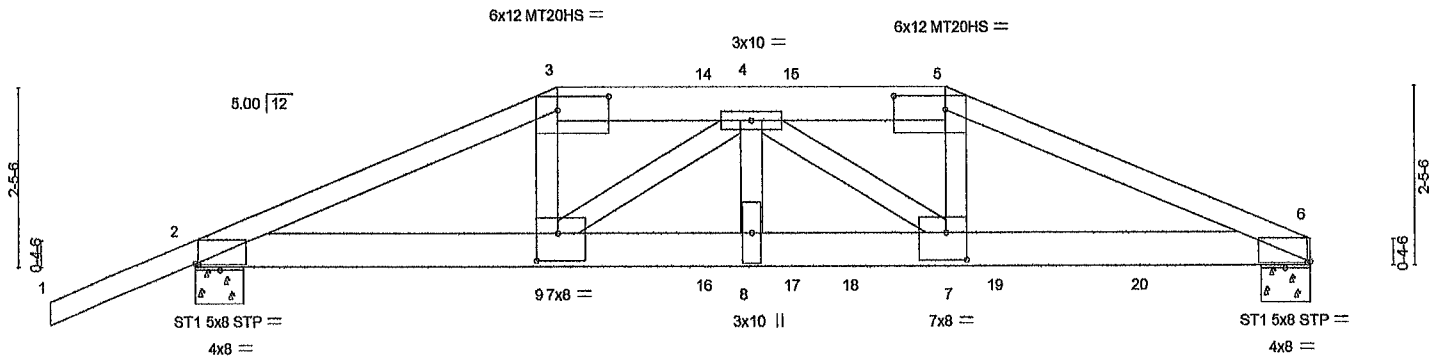
Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN	T36279645
4461086	T19	Hip Girder	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Tue Feb 4 16:42:07 2025 Page 1
ID:g5X?LynzTetcEw796RxbjZzGC8o-3n7Kxvdhpw7F1HLgmMT8OdBaGlZ9mx27tFGQWAzoSr_

-2-0-0	5-0-0	7-8-0	10-4-0	15-4-0
2-0-0	5-0-0	2-8-0	2-8-0	5-0-0

Scale = 1.29.8



5-0-0	7-8-0	10-4-0	15-4-0
5-0-0	2-8-0	2-8-0	5-0-0

Plate Offsets (X,Y)-- [2.0-0-7,0-0-2], [3:0-8-8,0-2-4], [5:0-8-8,0-2-4], [6.0-0-7,0-0-2], [7:0-3-8,0-4-8], [9.0-3-8,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20 0	Plate Grip DOL	1 25	TC	0.85	Vert(LL)	0.22	8-9	>855	240	MT20	244/190
TCDL	7 0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0 25	8-9	>730	180	MT20HS	187/143
BCLL	0 0 *	Rep Stress Incr	NO	WB	0 74	Horz(CT)	0 06	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 168 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
3-5 2x6 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP M 26
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-8-13 oc bracing

REACTIONS. (size) 6=0-8-0, 2=0-8-0
Max Horz 2=91(LC 33)
Max Uplift 6=-3007(LC 9), 2=-2377(LC 8)
Max Grav 6=4995(LC 1), 2=3549(LC 1)

FORCES. (lb) - Max Comp./Max Ten - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-8529/5723, 3-4=-7619/5180, 4-5=-9680/6040, 5-6=-10791/6665
BOT CHORD 2-9=-5252/7834, 8-9=-7251/10930, 7-8=-7251/10930, 6-7=-6086/9955
WEBS 3-9=-2023/3067, 4-9=-4117/2720, 4-8=-2240/2925, 4-7=-1617/1678, 5-7=-2349/3905

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 0-7-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows. 2x6 - 2 rows staggered at 0-7-0 oc.
Webs 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) Unbalanced roof live loads have been considered for this design.
4) Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl , GCpi=0 18, MWFRS (envelope) gable end zone; 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) All plates are MT20 plates unless otherwise indicated
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
9) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=3007, 2=2377
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 73 lb down and 108 lb up at 5-0-0, 54 lb down and 103 lb up at 7-0-12, and 54 lb down and 103 lb up at 8-3-4, and 73 lb down and 108 lb up at 10-4-0 on top chord, and 137 lb down and 18 lb up at 5-0-0, 46 lb down and 18 lb up at 7-0-12, 2848 lb down and 2386 lb up at 7-1-9, 46 lb down and 18 lb up at 8-3-4, 1349 lb down and 700 lb up at 9-0-12, 137 lb down and 18 lb up at 10-3-4, and 1349 lb down and 698 lb up at 11-0-12, and 1349 lb down and 695 lb up at 13-0-12 on bottom chord The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
February 5,2025

LOAD CASE(S) Standard

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced) Lumber Increase=1.25, Plate Increase=1 25
   Uniform Loads (plf)
   Vert: 1-3=-54, 3-5=-54, 5-6=-54, 2-6=-20
   Concentrated Loads (lb)
   Vert. 3=-54(F) 5=-54(F) 9=-63(F) 7=-63(F) 14=-54(F) 15=-54(F) 16=-2881(F=-33, B=-2848) 17=-33(F) 18=-1349(B) 19=-1349(B) 20=-1349(B)

Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN	T36279646
4461086	T20	Half Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Tue Feb 4 16:42 07 2025 Page 1
ID:g5X?LynzTetcEw798RxbjZzGC8o-3n7KxvdhpW7F1HLgmMT8OdBj6ldOm207tFGQWAzoSr_

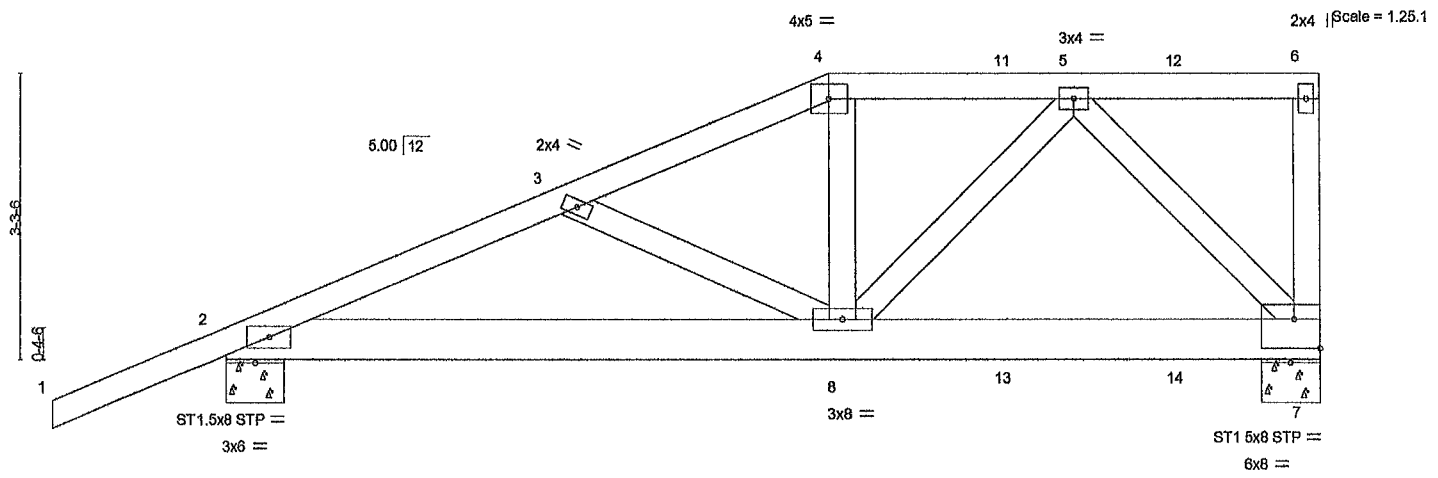

Plate Offsets (X,Y)-- [7:Edge,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1 25	TC	0.29	Vert(LL)	0 07	7-8	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1 25	BC	0.39	Vert(CT)	-0.06	7-8	>999	180		
BCLL	0 0 *	Rep Stress Incr	NO	WB	0.30	Horz(CT)	-0 01	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 76 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-10 oc purlins, except end verticals
BOT CHORD Rigid ceiling directly applied or 7-0-0 oc bracing

REACTIONS. (size) 7=0-8-0, 2=0-8-0
Max Horz 2=210(LC 8)
Max Uplift 7=-813(LC 8), 2=-582(LC 8)
Max Grav 7=979(LC 1), 2=815(LC 1)

FORCES. (lb) - Max. Comp./Max Ten - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-1421/1085, 3-4=-1222/959, 4-5=-1111/928
BOT CHORD 2-8=-1104/1285, 7-8=-540/650
WEBS 4-8=-219/351, 5-8=-571/678, 5-7=-918/762

NOTES-
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl , GCpi=0 18, MWFRS (envelope) gable end zone, 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 3-6-0 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 100 lb uplift at joint(s) except (jt=lb) 7=813 2=582
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 29 lb down and 58 lb up at 7-0-0, 19 lb down and 56 lb up at 9-0-12, and 19 lb down and 56 lb up at 11-0-12, and 27 lb down and 57 lb up at 12-6-4 on top chord, and 382 lb down and 427 lb up at 7-0-0, and 161 lb down and 186 lb up at 9-0-12, and 161 lb down and 186 lb up at 11-0-12 on bottom chord The design/selection of such connection device(s) is the responsibility of others.
9) 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=-54, 4-6=-54, 2-7=-20
Concentrated Loads (lb)
Vert: 4=-10(F) 6=-27(F) 8=-382(F) 11=-10(F) 12=-10(F) 13=-161(F) 14=-161(F)

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Date:
February 5,2025

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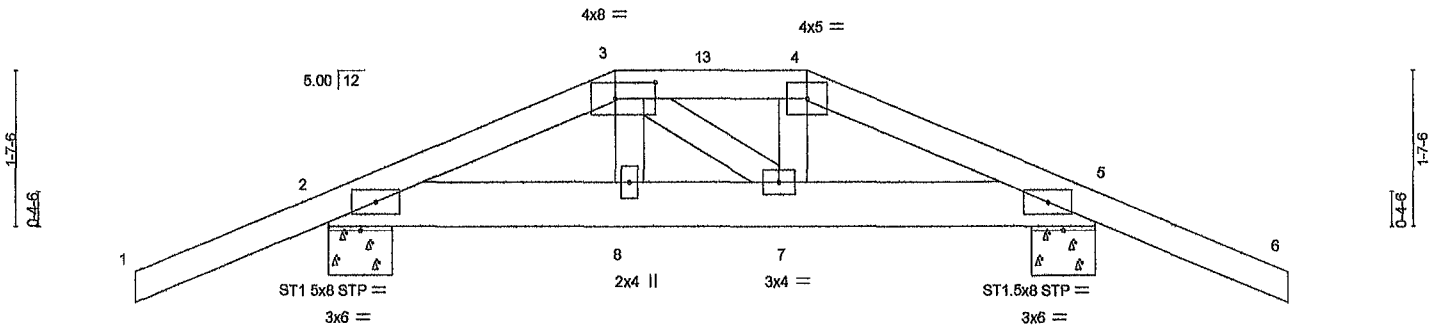
Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN	T36279647
4461086	T21	Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Tue Feb 4 16:42 08 2025 Page 1
ID:g5X?LynzTetcEw796RxbjZzGC8o-X_hj9EdJaEF6eRwsK3_NxrkuC91WVZCG6v?z1czoSqz

-2-0-0 2-0-0 | 3-0-0 3-0-0 | 5-0-0 2-0-0 | 8-0-0 3-0-0 | 10-0-0 2-0-0

Scale = 1 22.5



3-0-0 3-0-0 | 5-0-0 2-0-0 | 8-0-0 3-0-0

Plate Offsets (X,Y)-- [3.0-5-0,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20 0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	0 01	8	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1.25	BC	0 15	Vert(CT)	-0.01	8	>999	180		
BCLL	0 0 *	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10 0	Code FBC2023/TPI2014		Matrix-MS							Weight 43 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-8-0, 5=0-8-0
Max Horz 2=52(LC 8)
Max Uplift 2=-374(LC 4), 5=-374(LC 5)
Max Grav 2=406(LC 1), 5=406(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-465/403, 3-4=-446/389, 4-5=-502/399
BOT CHORD 2-8=-289/481, 7-8=-294/491, 5-7=-308/513

NOTES-
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C 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.
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 100 lb uplift at joint(s) except (jt=lb) 2=374, 5=374
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 29 lb down and 51 lb up at 3-0-0, and 165 lb down and 80 lb up at 5-0-0 on top chord, and 167 lb down and 82 lb up at 3-0-0, and 167 lb down and 82 lb up at 4-11-4 on bottom chord The design/selection of such connection device(s) is the responsibility of others.
9) 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. 1-3=-54, 3-4=-54, 4-6=-54, 2-5=-20
Concentrated Loads (lb)
Vert. 3=-3(B) 4=-3(B) 8=2(B) 7=2(B)

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Date:
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Job	Truss	Truss Type	Qty	Ply	188 SW BIRCH GLEN
4461086	T22	Common	1	1	T36279648
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Tue Feb 4 16:42:08 2025 Page 1
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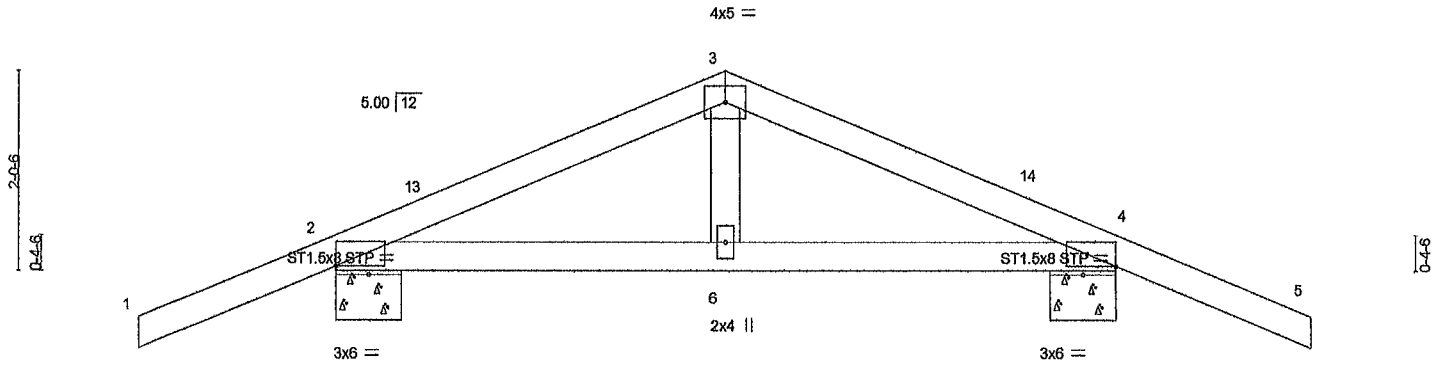
-2-0-0 2-0-0 | 4-0-0 4-0-0 | 8-0-0 4-0-0 | 10-0-0 2-0-0

Scale = 1:22.2



4-0-0 4-0-0 | 8-0-0 4-0-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	0 02	6-12	>999	240	MT20	244/190
TCDL	7 0	Lumber DOL	1.25	BC	0 16	Vert(CT)	0 02	6-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0 00	4	n/a	n/a		
BCDL	10 0	Code FBC2023/TPI2014		Matrix-MS							Weight. 34 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No 2
BOT CHORD 2x4 SP No 2
WEBS 2x4 SP No 3

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

REACTIONS. (size) 2=0-8-0, 4=0-8-0
Max Horz 2=62(LC 12)
Max Uplift 2=-328(LC 8), 4=-328(LC 9)
Max Grav 2=404(LC 1), 4=404(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-375/544, 3-4=-375/544
BOT CHORD 2-6=-316/312, 4-6=-316/312

NOTES-
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl , GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 4-0-0, Zone2 4-0-0 to 8-0-0, Zone1 8-0-0 to 10-0-0 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) 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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=328, 4=328

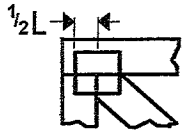
This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
February 5,2025

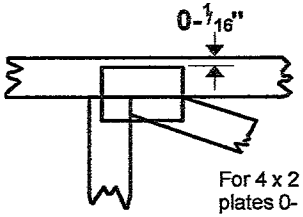
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

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

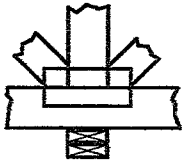
4 x 4

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

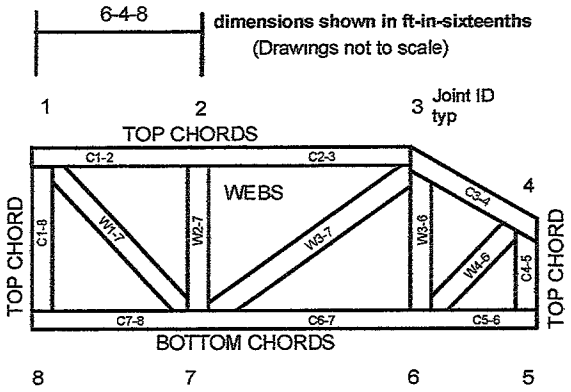


Indicates location where bearings (supports) occur Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only

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.

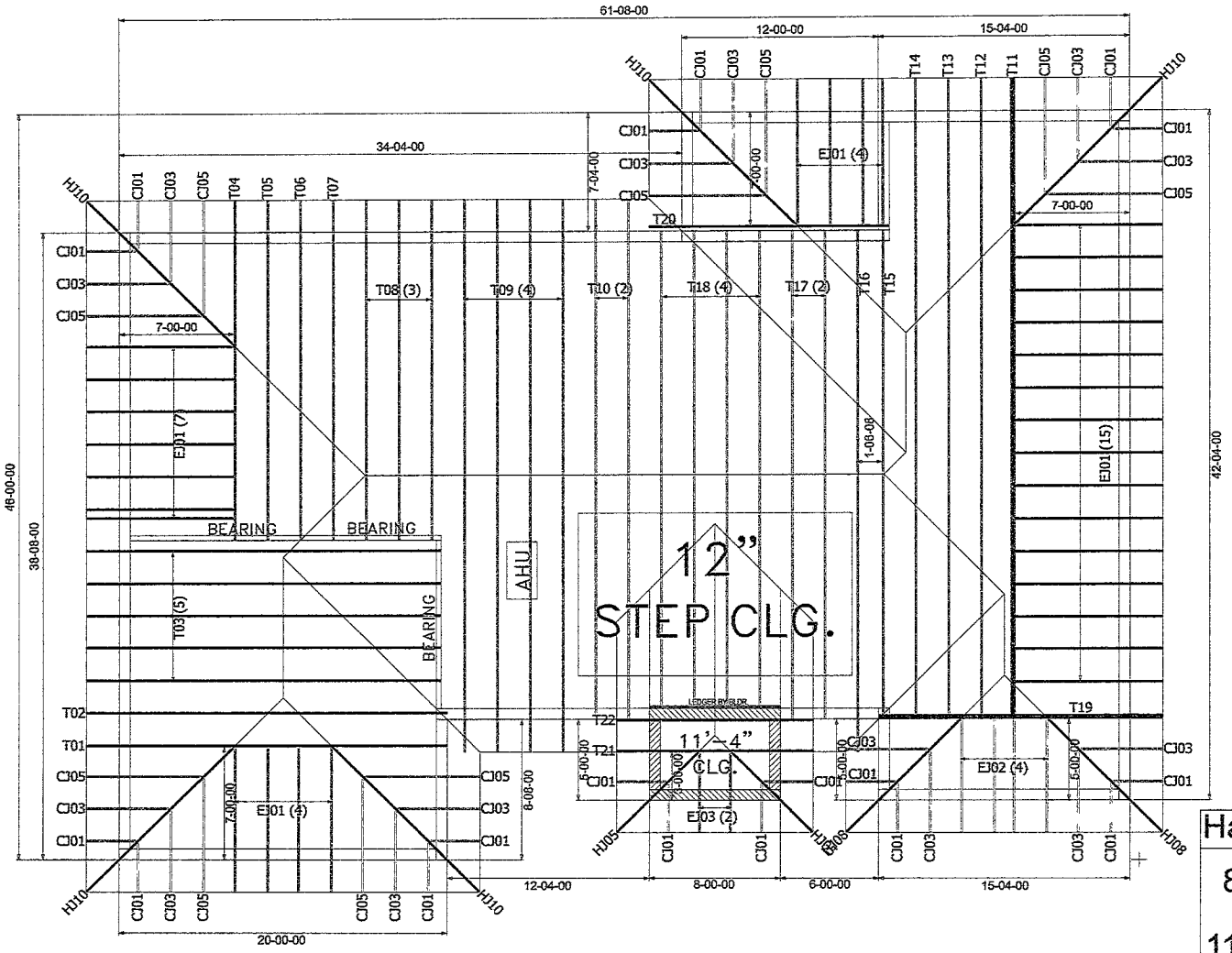
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks Consult with project engineer before use

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.

5/12 PITCH – 24" O/H



Hatch Legend

8' - 0"

11' - 4"

WARNING
Backcharges Will Not Be Accepted Regardless of Fault Without Prior Notification By Customer Within 48 Hours And Investigation By Builders FirstSource. NO EXCEPTIONS.

IMPORTANT
This Drawing Must Be Approved And Returned Before Fabrication Will Begin. For Your Protection Check All Dimensions And Conditions Prior To Approval Of Plan. SIGNATURE BELOW INDICATES ALL NOTES AND DIMENSIONS HAVE BEEN ACCEPTED.

By _____ Date _____

FINAL LAYOUT FOR PRODUCTION

Initial: _____ Date: _____
Requested Delivery Date: _____

ROOF LOADING:	FLOOR LOADING:
TCLL: 20	TCLL:
TCDL: 7	TCDL:
BCLL: 0	BCLL:
BCDL: 10	BCDL:
DURATION: 1.25	DURATION: 1.00

5 PSF TCDL, + 5 PSF BCDL USED TO RESIST UPLIFT

ENCLOSED
EXPOSURE CATEGORY C
OCCUPANCY CATEGORY II
WIND LOAD 130 MPH
WIND IMPORTANCE FACTOR 1.00

ROOF PITCH:	5/12
CEILING PITCH:	FLAT
TOP CHORD SIZE:	2 X 4
BOTTOM CHORD SIZE:	2 X 4
OVERHANG LENGTH:	24"
END CUT:	PLUMB
CANTILEVER:	N/A
TRUSS SPACING:	24"
BUILDING CODE:	FBC 2023

BEARING HEIGHT SCHEDULE

BUILDER:	Yasmanis Reyes
MODEL:	1826
ELEV:	HIP
ADDRESS:	912 NW Fairway Drive
LOT / BLOCK:	N/A
SUBDIVISION:	SPEC HSE
CITY:	
DRAWN BY:	Holloway, Kim
JOB #:	4461093
DATE: 2/4/2025	SCALE: N.T.S.

REVISIONS:

Builders FirstSource