



5631 S. NC 62 Burlington NC 27215 Tel: (336) 226-9356 Fax: (336) 476-9146

DELIVERY ADDRESS:

266 NW LAMAR PL
LAKE CITY, FL 32055

TCLL-TCDL-BCLL-BCDL

LOADING: 20.0,10.0,0.0,10.0

WIND: 155mph,H=35',Cat.II,Exp.B,Enclosed

HOME DEPOT # 6864 LAKE

JOB #: 72425794

JOB NAME: T278392

SUBDIV:

BUILDING CODE: FBC2023/FRC2023

This package includes 5 individual, dated Truss Drawings designed using Mitek software. 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.

Note: The seal on this index sheet indicates acceptance of professional engineering responsibility solely for the Truss Design Drawings listed below and attached. The Suitability and use of each component for any particular building is the responsibility of the Building Designer, per ANSI/TPI 1.

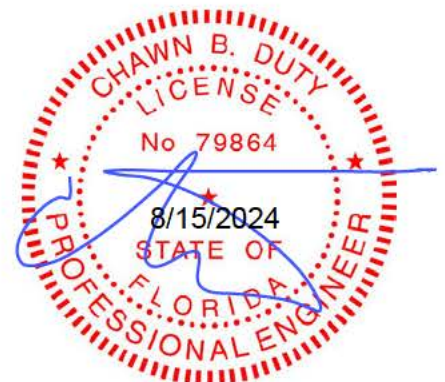
Truss Design Engineer's Name Chawn Duty

License #: PE79864

No.	Truss ID#	Date
1	T1	08/15/24
2	T2	08/15/24
3	T3	08/15/24
4	T4	08/15/24
5	T5	08/15/24

Chawn
B Duty

Digitally signed
by Chawn B Duty
Date: 2024.08.15
10:34:23 -04'00'



Job 72425794	Truss T1	Truss Type Truss	Qty 1	Ply 1	HM DEPOT/T278392 RF Job Reference (optional)
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UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Daniel Carter

Run: 9.01 S 8.73 Jul 24 2024 Print: 8.730 S Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 09:12:31

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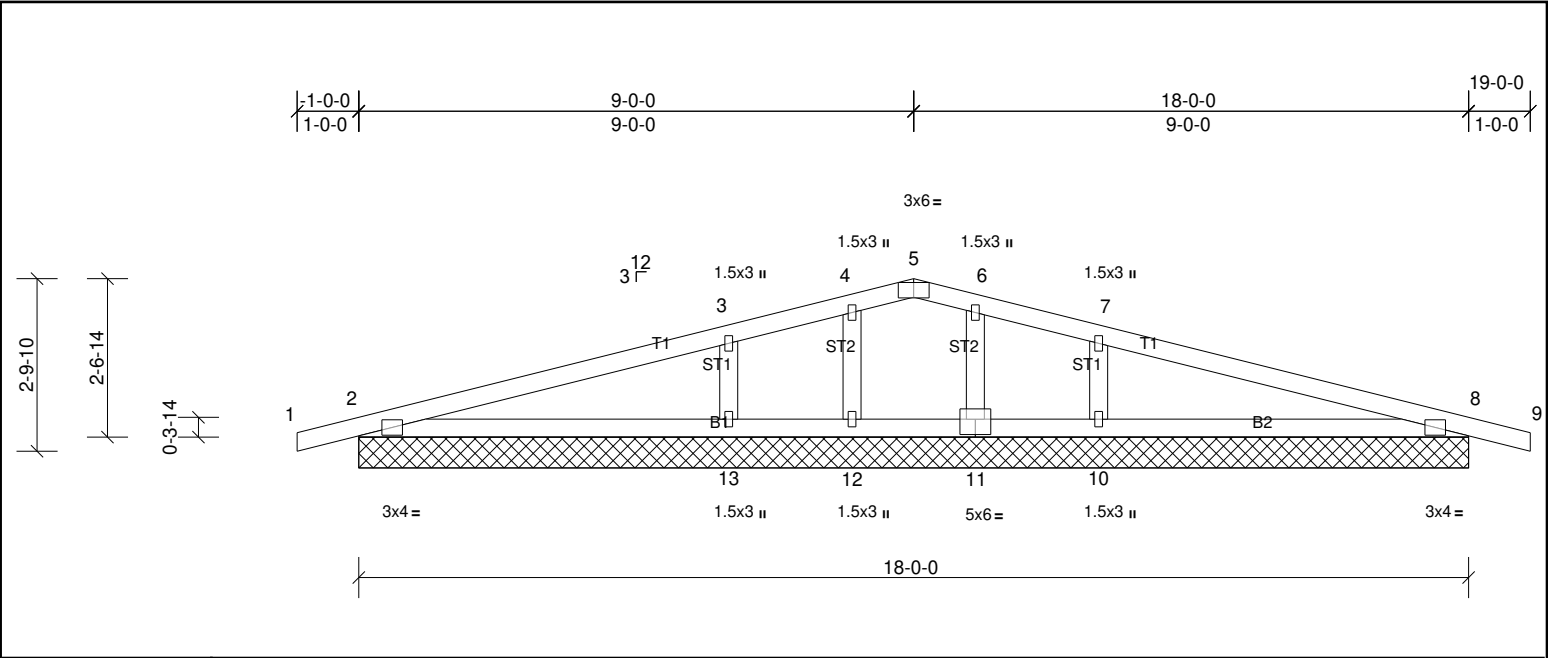


Plate Offsets (X, Y): [5:0-3-0,Edge], [11:0-3-0,0-3-0]

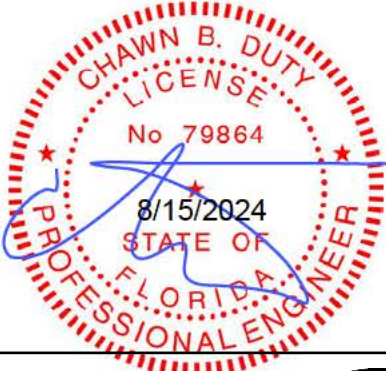
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	18	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MSH							Weight: 67 lb	FT = 20%

LUMBER			BRACING		
TOP CHORD	2x4 SP No.2		TOP CHORD	Structural wood sheathing directly applied or 6'-0" oc purlins.	
BOT CHORD	2x4 SP No.2		BOT CHORD	Rigid ceiling directly applied or 10'-0" oc bracing.	
OTHERS	2x4 SP No.3				

REACTIONS All bearings 18'-0".
(lb) - Max Horiz 2=61 (LC 11), 14=61 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s) 11, 12 except 2=159 (LC 6), 8=165 (LC 7), 10=257 (LC 11), 13=256 (LC 10), 14=159 (LC 6), 18=165 (LC 7)
Max Grav All reactions 250 (lb) or less at joint(s) 11, 12 except 2=276 (LC 1), 8=276 (LC 1), 10=510 (LC 24), 13=510 (LC 23), 14=276 (LC 1), 18=276 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-13=334/426, 7-10=334/426

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=155mph (3-second gust) Vasd=120mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2'-0" oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0" tall by 2'-0" wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 11 except (jt=lb) 2=159, 13=255, 10=256, 8=165, 2=159, 8=165.



Job 72425794	Truss T2	Truss Type Truss	Qty 13	Ply 1	HM DEPOT/T278392 RF Job Reference (optional)
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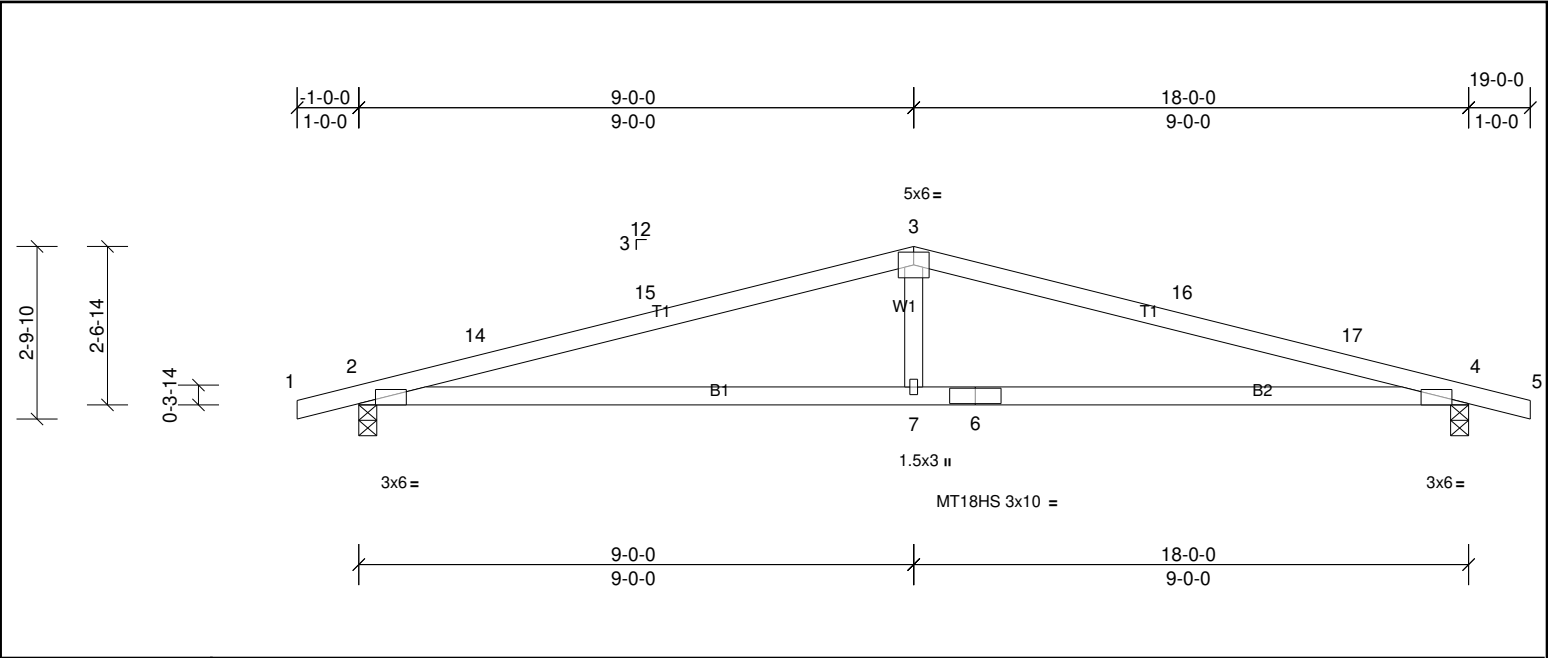


Plate Offsets (X, Y): [2:0-3-4,Edge], [4:0-3-4,Edge]

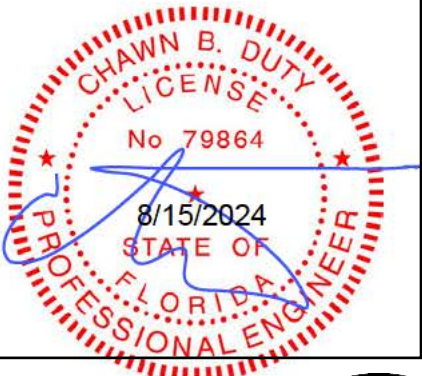
Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.92	Vert(LL)	0.28	7-10	>761	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.77	Vert(CT)	-0.42	7-10	>518	180	MT18HS	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.04	4	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MSH							Weight: 61 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 5-7-13 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS	(lb/size)	2=780/0-3-8, (min. 0-1-8), 4=780/0-3-8, (min. 0-1-8)
Max Horiz	2=61 (LC 10)	
Max Uplift	2=345 (LC 6), 4=345 (LC 7)	

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-14=-1744/1072, 14-15=-1704/1079, 3-15=-1703/1089, 3-16=-1703/1089, 16-17=-1704/1079, 4-17=-1744/1072
BOT CHORD	2-7=-929/1654, 6-7=-929/1654, 4-6=-929/1654
WEBS	3-7=-14/420

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=155mph (3-second gust) Vasd=120mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 4-9-1, Zone2 4-9-1 to 13-2-15, Zone1 13-2-15 to 16-0-0, Zone3 16-0-0 to 19-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 345 lb uplift at joint 2 and 345 lb uplift at joint 4.



Job 72425794	Truss T3	Truss Type Truss	Qty 1	Ply 1	HM DEPOT/T278392 RF Job Reference (optional)
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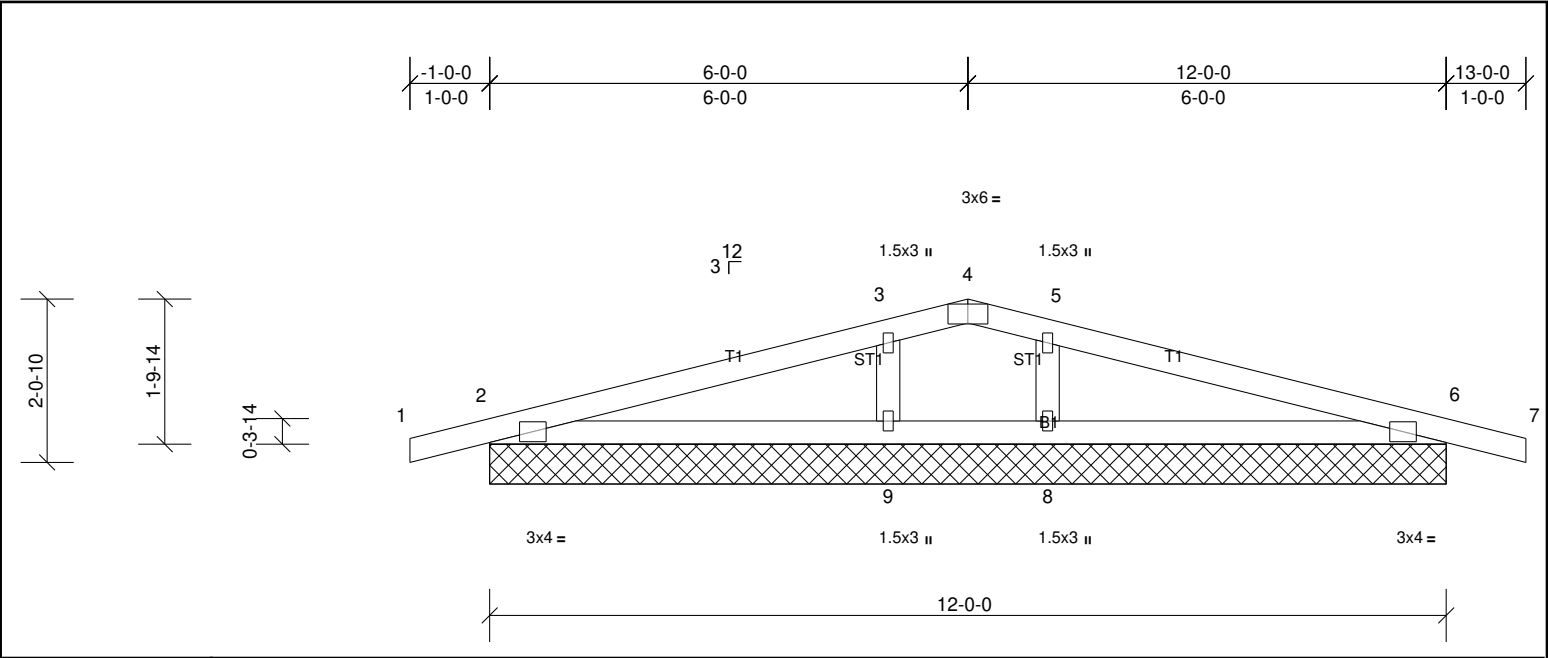


Plate Offsets (X, Y): [4:0-3-0,Edge]

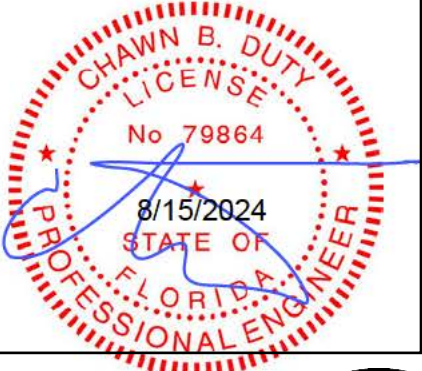
Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	6	n/a	n/a	Weight: 43 lb
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MSH							FT = 20%

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS	All bearings 12-0-0.
(lb) - Max Horiz	2=-43 (LC 11), 10=-43 (LC 11)
Max Uplift	All uplift 100 (lb) or less at joint(s) except 2=-134 (LC 6), 6=-138 (LC 7), 8=-175 (LC 11), 9=-179 (LC 10), 10=-134 (LC 6), 14=-138 (LC 7)
Max Grav	All reactions 250 (lb) or less at joint(s) 2, 6, 10, 14 except 8=363 (LC 24), 9=363 (LC 23)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS	3-9=-250/367, 5-8=-250/367

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=155mph (3-second gust) Vasd=120mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 133 lb uplift at joint 2, 137 lb uplift at joint 6, 179 lb uplift at joint 9, 174 lb uplift at joint 8, 133 lb uplift at joint 2 and 137 lb uplift at joint 6.



Job 72425794	Truss T4	Truss Type Truss	Qty 5	Ply 1	HM DEPOT/T278392 RF Job Reference (optional)
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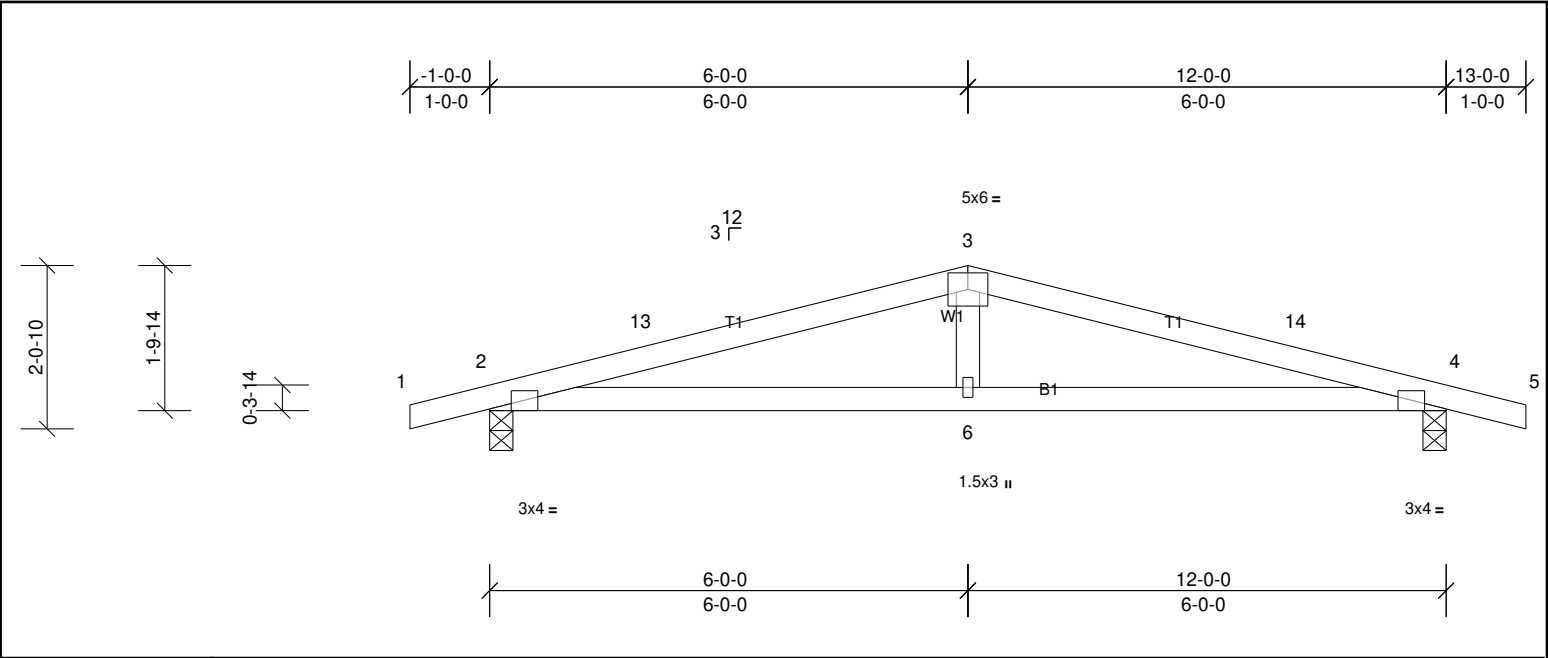


Plate Offsets (X, Y): [2:0-3-4,Edge], [4:0-3-4,Edge]

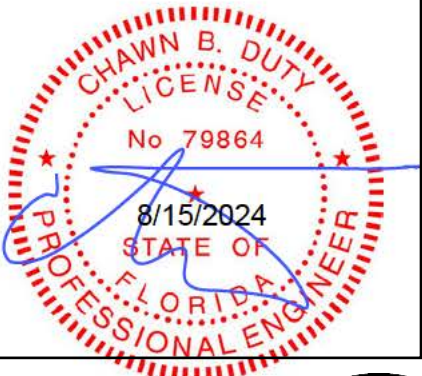
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	0.08	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.11	6-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.02	4	n/a	n/a		
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MSH							Weight: 41 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-11-9 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 5-10-8 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS	(lb/size)	2=540/0-3-8, (min. 0-1-8), 4=540/0-3-8, (min. 0-1-8)
	Max Horiz	2=43 (LC 11)
	Max Uplift	2=253 (LC 6), 4=253 (LC 7)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-13=-1124/981, 3-13=-1101/991, 3-14=-1101/991, 4-14=-1124/981
BOT CHORD	2-6=-830/1068, 4-6=-830/1068
WEBS	3-6=-54/270

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=155mph (3-second gust) Vasd=120mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-0-0 to 2-0-0, Zone2 2-0-0 to 10-0-0, Zone3 10-0-0 to 13-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 253 lb uplift at joint 2 and 253 lb uplift at joint 4.



This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.



Job 72425794	Truss T5	Truss Type Truss	Qty 1	Ply 1	HM DEPOT/T278392 RF Job Reference (optional)
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Run: 9.01 S 8.73 Jul 24 2024 Print: 8.730 S Jul 24 2024 MiTek Industries, Inc. Thu Aug 15 09:12:33

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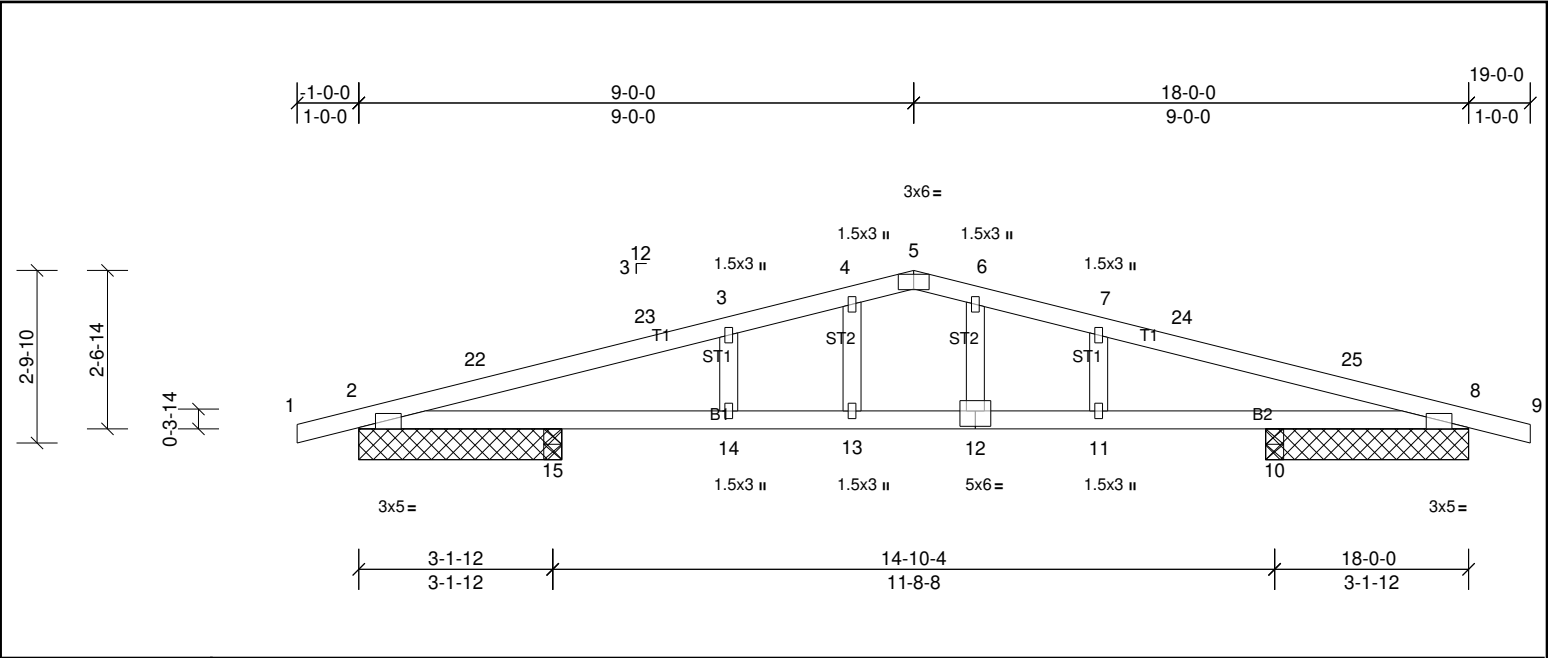
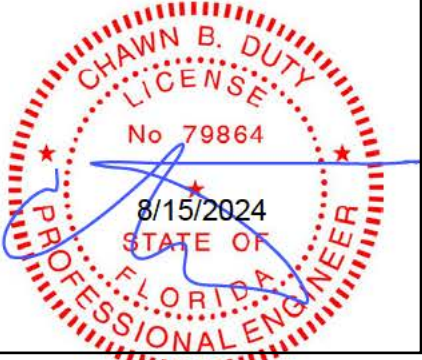


Plate Offsets (X, Y): [2:0-3-4,Edge], [5:0-3-0,Edge], [8:0-3-4,Edge], [12:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	0.10	13-14	>999	240	244/190
TCDL	18.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.16	11-12	>880	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.03	8	n/a	n/a	
BCDL	10.0	Code	FRC2023/TPI2014	Matrix-MSH							
										Weight: 67 lb	FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-10-14 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 7-6-1 oc bracing.
OTHERS	2x4 SP No.3		
REACTIONS			
All bearings 3-3-8. except 15=0-3-8, 10=0-3-8			
(lb) - Max Horiz	2=61 (LC 10)		
Max Uplift	All uplift 100 (lb) or less at joint(s) except 2=177 (LC 6), 8=179 (LC 7), 10=193 (LC 11), 15=195 (LC 10)		
Max Grav	All reactions 250 (lb) or less at joint(s) except 2=458 (LC 1), 8=458 (LC 1), 10=494 (LC 24), 15=494 (LC 23)		
FORCES			
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.			
TOP CHORD	2-22=-1211/648, 22-23=-1156/654, 3-23=-1143/659, 3-4=-1188/719, 4-5=-1106/704, 5-6=-1106/704, 6-7=-1188/719, 7-24=-1143/659, 24-25=-1156/654, 8-25=-1211/648		
BOT CHORD	2-15=-533/1121, 14-15=-533/1121, 13-14=-533/1121, 12-13=-533/1121, 11-12=-533/1121, 10-11=-533/1121, 8-10=-533/1121		
WEBS	3-14=-282/231, 7-11=-282/231		

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=155mph (3-second gust) Vasd=120mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 4-9-1, Zone2 4-9-1 to 13-2-15, Zone1 13-2-15 to 16-0-0, Zone3 16-0-0 to 19-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 177 lb uplift at joint 2, 179 lb uplift at joint 8, 194 lb uplift at joint 15 and 193 lb uplift at joint 10.



This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

