

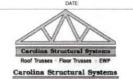
THIS IS A TRUSS PLACEMENT DIAGRAM ONLY

These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss supports structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of Wood Trusses" available from the Truss Plate Institute, 583 D'Onifrio Drive; Madison, WI 53179.

SHOP DRAWING APPROVAL

THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND VOIDS ALL PREVIOUS ARCHITECTURAL OR OTHER TRUSS BIT LAYOUTS. REVIEW AND APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITIONS TO INSURE AGAINST CHANGES THAT WILL RESULT IN EXTRA CHARGES TO YOU.

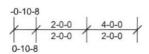
	REVIEW	ED BY:	APPROVED BY:
Job #: Q2300339	Plan: GARAGE	200 1794.1 800 2783.4	ALITY AUDITED by: ANDIETH 1-000F ANDIETH 1-000F ANDIETH 1-000F
Customer: WANE O'QUINN	Date: 3/2/2023	CARCLINA	STRUCTURAL SYSTEMS, LLC by NG - Panicoc-637 FE-491-4504
Site Address: TBD	Sales Rep: RW	ROOF	DATA
City, ST, ZIP: LILLINGTON, NC	Designer: JSP	Roof Area: 1	274.56 SF



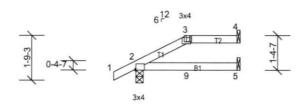
Job	Truss	Truss Type	Qty	Ply	
Wayne O'Quinn	J01	Jack-Open Girder	4	1	Job Reference (optional)

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NAILED



Special 4-0-0

Scale = 1:43.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.04	5-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.08	5-8	>608	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.09	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MP		, ,					Weight: 14 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 4-0-0 oc purlins, except

2-0-0 oc purlins: 3-4. Rigid ceiling directly applied or 10-0-0 oc **BOT CHORD** bracing.

REACTIONS (lb/size)

2=246/0-3-8, (min. 0-1-8), 4=58/ Mechanical, (min. 0-1-8), 5=124/

Mechanical, (min. 0-1-8)

Max Horiz 2=48 (LC 8) Max Uplift 2=-31 (LC 8), 4=-23 (LC 4)

(lb) - Max. Comp./Max. Ten. - All forces 250

FORCES (lb) or less except when shown.

NOTES

- 1) Unbalanced roof live loads have been considered for this
- Wind: ASCE 7-16; Vult=125mph (3-second gust) Vasd=99mph; TCDL=6.0psf; BCDL=6.0psf; h=28ft; B=45ft; L=24ft; eave=4ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 4 and 31 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 61 lb down at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others. 12) In the LOAD CASE(S) section, loads applied to the face
 - of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 1-3=-60, 3-4=-60, 5-6=-20

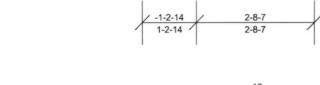
Concentrated Loads (lb)

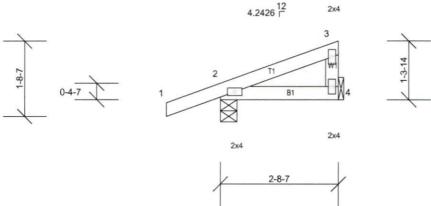
Vert: 9=-61 (B)

Job	Truss	Truss Type	Qty	Ply	
Wayne O'Quinn	J02	Diagonal Hip Girder	4	1	Job Reference (optional)

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Scale = 1:25

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.12	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MP		, , , , , , ,					Weight: 11 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-8-7 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

REACTIONS (lb/size)

2=195/0-4-9, (min. 0-1-8), 4=84/ Mechanical, (min. 0-1-8)

Max Horiz 2=38 (LC 7) Max Uplift 2=-53 (LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

NOTES

- 1) Wind: ASCE 7-16; Vult=125mph (3-second gust) Vasd=99mph; TCDL=6.0psf; BCDL=6.0psf; h=28ft; Pastagram (Note: Labert, Note: Labert, Note:
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	9		Qty	Ply						
Wayne O'Quinn	A01	Hip Girde	er		2	2	Job R	eference (or	otional)			
Carolina Structural System	s, Star, NC 27356, Jeremy P	nillips		Run: 8.62 S C								Page: Xsm1p4yzf1SW
	-0-10-8				10.9	WASSERSII	_# 1]**	iby21100-011	LUIAN	33 1 W4VV 002)	ZLVV : U ISCLVV	28-10-8
	4-0-0 0-10-8	+	10-8-0 6-8-0	+	17-4-0 6-8-0)	+	24-0 6-8-		+	28-0-0 4-0-0	0-10-8
		NAILED		NAILED	NAILED		NAILED		NAILE)	NAILED	
		NAILED	NAILED	NAIL	ED	NAILED		NAILED		NAILED		
	NAILED											
* *	612	5x6 3 21	22	3×4 23 4 24	3x4 25 5	26 27	3x4 6 28	29	30	5x6 7		
2-9-3	20	WI		WS		W4		WZ V	//	W2 W1	31	
0-4-73	1 2	9, 11	R1 M	an Gir			nn		BALL	- Ipl	111	8 9
+	⊠ 32 3x4	15 33 2x4	14 34 3x4	35 13 4xi		36	37	38 11 3x4	39	10 2x4	40	3x4
	NAILED	NAILED		NAILED	NAILED		NAILED		NAILED)	NAILED	
		NAILED	NAILED	NAIL	ED	NAILED		NAILED		NAILED		
Scale = 1:54.6	3-10-4 3-10-4	7-5-0 3-6-12	+	14-0-0 6-7-0	+		20-7-0 6-7-0	+	24-1 3-6-		28-0-0 3-10-4	+
Plate Offsets (X, Y): [3:	0-3-0,0-2-0], [7:0-3-0,0-2-	0]										
Loading TCLL (roof)	(psf) Spacing 20.0 Plate Grip I	001	2-0-0 1.00	CSI TC		EFL ert(LL)	in (loc) I/defl 12 >999	L/d 240	PLATES MT20	GRIP 244/19	10
TCDL	10.0 Lumber DO	L	1.15	BC	0.61 V	ert(CT)	-0.36	12 >923	180	WITZU	244/18	,0
BCLL BCDL	0.0* Rep Stress 10.0 Code			WB Matrix-MS	0.21 H	orz(CT)	0.06	8 n/a	n/a	Weight: 299	b FT = 2	0%
6-0-0 00	No.2	y applied or 3) U	xcept if note :ASE(S) sec rovided to di nless otherw Inbalanced r esign.	considered equal das front (F) or ition. Ply to ply constribute only load vise indicated. oof live loads hard-16; Vult=125m	back (B) factornections had noted as	e in the LC have been (F) or (B), hasidered for						
	iling directly applied or 1)-0-0 oc B	asd=99mph; =45ft; L=28f	TCDL=6.0psf; it; eave=4ft; Ke= VFRS (directions	BCDL=6.0ps 1.00; Cat. II;	f; h=28ft; Exp B;	aht					
	2=1671/0-3-8, (min. 0- 8=1671/0-3-8, (min. 0- z 2=-39 (LC 6) z 2=-106 (LC 8), 8=-106	I-8), e I-8) D 5) P	xposed ; end OL=1.60 pla rovide adeq	d vertical left and ate grip DOL=1.6 uate drainage to 3x4 MT20 unles	right expos 0 prevent wa	ed; Lumbe ter ponding	r					
ORCES (lb) - Ma	x. Comp./Max. Ten All	orces 250 7) T	his truss has	been designed d nonconcurrent	for a 10.0 p	sf bottom	4.					
2-20=-3 3-21=-4 22-23=- 4-24=-5 5-25=-5 26-27=- 6-28=-4 29-30=-	ss except when shown. 230/180, 3-20=-3161/188 (230/180, 3-20=-3161/188 (2318/232, 4-23=-4318/23 (42/316, 24-25=-5642/31 (42/316, 5-26=-5642/31 (42/316, 6-27=-5642/31 (42/316, 6-27=-5642/31 (42/316, 6-27=-5642/31 (42/317/232, 7-30=-4317/23 (1317/232, 7-30=-4317/23 (1811/188, 8-31=-2390/188	8) * 02, 02, 03, 06, 06, 06, 06, 07, 07, 07, 07, 07, 07, 07, 07, 07, 07	This truss had not the bottom 1-06-00 tall by hord and any rovide mechearing plate and 106 lb this truss is defined to the struss is defined to the structure	a nonconcurrent as been designe chord in all are / 2-00-00 wide v / other members anical connection capable of withs uplift at joint 8. lesigned in acco	d for a live loas where a revill fit between the condition of the conditio	pad of 20.0 ectangle en the botto) of truss to lb uplift at the 2018	psf om o joint					
	61/188, 8-31=-3230/180 24/2870, 15-32=-124/287	_		d referenced sta			IU					

2-32=-124/2870, 15-32=-124/2870, 15-33=-129/2855, 14-33=-129/2855, 14-33=-129/2855, 14-34=-363/5440, 34-35=-363/5440, 13-35=-363/5440, 12-13=-363/5440, 12-36=-364/5440, 36-37=-364/5440, 37-38=-364/5440, 11-38=-364/5440, 11-38=-131/2855, 10-39=-131/2855, 10-40=-125/2869, 8-40=-125/2869

3-14=-51/1711, 4-14=-1328/222, 4-12=0/379, 6-12=0/380, 6-11=-1329/222, 7-11=-51/1711

WEBS 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

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.00 Uniform Loads (lb/ft)

Vert: 1-3=-60, 3-7=-60, 7-9=-60, 2-8=-20

Concentrated Loads (lb)

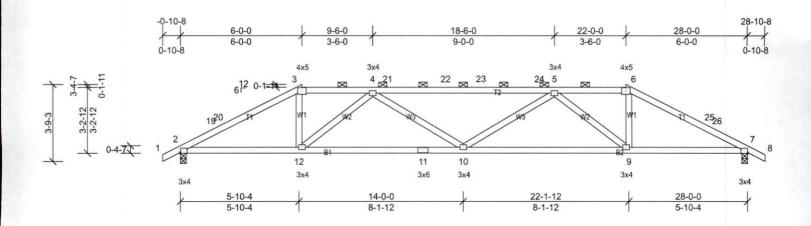
oncentrated Loads (lb)

Vert: 5=-42 (F), 13=-30 (F), 3=-42 (F), 12=-30 (F), 7=-42 (F), 15=-30 (F), 10=-30 (F), 21=-42 (F), 22=-42 (F), 23=-42 (F), 24=-42 (F), 27=-42 (F), 28=-42 (F), 29=-42 (F), 30=-42 (F), 32=-104 (F), 33=-30 (F), 34=-30 (F), 35=-30 (F), 36=-30 (F), 37=-30 (F), 38=-30 (F), 39=-30 (F), 40=-104 (F)

Job	Truss	Truss Type	Qty	Ply	
Wayne O'Quinn	A02	Hip	2	1	Job Reference (optional)

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Scale = 1:53.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.60	Vert(LL)	-0.14	10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.32	9-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.09	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-AS		1000 00					Weight: 125 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* T2:2x4 SP DSS

Plate Offsets (X, Y): [2:Edge,0-0-8], [7:Edge,0-0-8]

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except

2-0-0 oc purlins (3-4-15 max.): 3-6.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (lb/size) 2=1172/0-3-8, (min. 0-1-8),

7=1173/0-3-8, (min. 0-1-8)

Max Horiz 2=53 (LC 11)

Max Uplift 2=-94 (LC 12), 7=-94 (LC 12)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-19=-2094/119, 19-20=-2051/121,

TOP CHORD

3-20=-2020/142, 3-4=-1783/157, 4-21=-2596/154, 21-22=-2596/154 22-23=-2596/154, 23-24=-2596/154, 5-24=-2596/154, 5-6=-1783/157, 6-25=-2020/142, 25-26=-2051/121, 7-26=-2094/119

2-12=-49/1816, 11-12=-140/2470, **BOT CHORD**

10-11=-140/2470, 9-10=-131/2470,

7-9=-54/1816

4-12=-959/130, 4-10=0/312, 5-10=0/312, 5-9=-959/130, 3-12=0/746, 6-9=0/746

WEBS

1) Unbalanced roof live loads have been considered for this

- Wind: ASCE 7-16; Vult=125mph (3-second gust) Vasd=99mph; TCDL=6.0psf; BCDL=6.0psf; h=28ft; B=45ft; L=28ft; eave=4ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 6-0-0, Exterior(2R) 6-0-0 to 10-2-15, Interior (1) 10-2-15 to 22-0-0, Exterior (2R) 22-0-0 to 26-2-15, Interior (1) 26-2-15 to 28-10-8 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

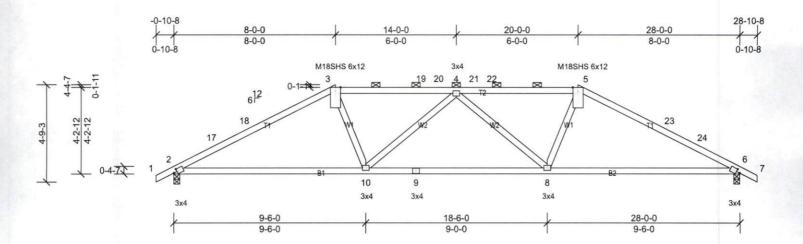
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 2 and 94 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	
Wayne O'Quinn	A03	Hip	2	1	Job Reference (optional)

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Page: 1



Scale = 1:54

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.17	10-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.41	10-13	>822	180	M18SHS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.07	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-AS		27 38					Weight: 118 lb	FT = 20%

LUMBER

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

BRACING Structural wood sheathing directly applied, TOP CHORD

except 2-0-0 oc purlins (3-11-13 max.): 3-5.

BOT CHORD Rigid ceiling directly applied.

2=1173/0-3-8, (min. 0-1-8), REACTIONS (lb/size)

6=1173/0-3-8, (min. 0-1-8)

Max Horiz 2=-69 (LC 10)

Max Uplift 2=-94 (LC 12), 6=-94 (LC 12)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

TOP CHORD 2-17=-1914/128, 17-18=-1847/141, 3-18=-1844/163, 3-19=-1801/162,

19-20=-1803/162, 4-20=-1804/162, 4-21=-1804/162, 21-22=-1803/162, 5-22=-1801/162, 5-23=-1844/163, 23-24=-1847/141, 6-24=-1914/128

BOT CHORD 2-10=-49/1656, 9-10=-86/2015,

8-9=-86/2015, 6-8=-55/1656 **WEBS** 3-10=0/472, 4-10=-385/85, 4-8=-385/85,

5-8=0/472

NOTES

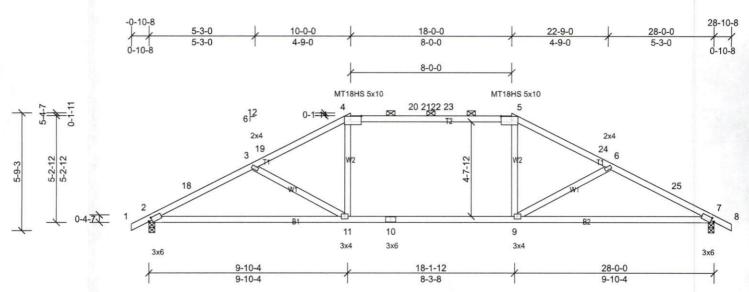
- 1) Unbalanced roof live loads have been considered for this
- Wind: ASCE 7-16; Vult=125mph (3-second gust)
 Vasd=99mph; TCDL=6.0psf; BCDL=6.0psf; h=28ft;
 B=45ft; L=28ft; eave=4ft; Ke=1.00; Cat. II; Exp B;
 Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 8-0-0, Exterior(2R) 8-0-0 to 12-2-15, Interior (1) 12-2-15 to 20-0-0, Exterior (2R) 20-0-0 to 24-2-15, Interior (1) 24-2-15 to 28-10-8 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
- Provide adequate drainage to prevent water ponding.
- 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.

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 2 and 94 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	
Wayne O'Quinn	A04	Hip	2	1	Job Reference (optional)

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Scale = 1:54.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.84	Vert(LL)	-0.45	11-14	>742	240	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.61	11-14	>551	180	MT20	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.07	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-AS	2-500mac					10000000000	Weight: 120 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* T2:2x4 SP No.1

BOT CHORD 2x4 SP No.1 **WEBS** 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied,

except

2-0-0 oc purlins (2-2-0 max.): 4-5.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (lb/size) 2=1173/0-3-8, (min. 0-1-9),

7=1173/0-3-8, (min. 0-1-9)

Max Horiz 2=-85 (LC 10)

Max Uplift 2=-94 (LC 12), 7=-94 (LC 12) Max Grav 2=1322 (LC 17), 7=1322 (LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown. TOP CHORD

2-18=-2275/176, 3-18=-2249/198, 3-19=-2013/142, 4-19=-1916/165,

4-20=-1753/176, 20-21=-1753/176

21-22=-1753/176, 22-23=-1753/176,

5-23=-1753/176, 5-24=-1916/165, 6-24=-2013/142, 6-25=-2250/198,

7-25=-2276/176

BOT CHORD 2-11=-105/2078, 10-11=-19/1771,

9-10=-19/1771, 7-9=-114/2015

WEBS 3-11=-377/110, 4-11=0/527, 5-9=0/527,

6-9=-377/110

NOTES

1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=125mph (3-second gust) Vasd=99mph; TCDL=6.0psf; BCDL=6.0psf; h=28ft; B=45ft; L=28ft; eave=4ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 10-0-0, Exterior(2R) 10-0-0 to 14-2-15, Interior (1) 14-2-15 to 18-0-0, Exterior (2R) 18-0-0 to 22-2-15, Interior (1) 22-2-15 to 28-10-8 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
- Provide adequate drainage to prevent water ponding.
- 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.

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 2 and 94 lb uplift at joint 7.

This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

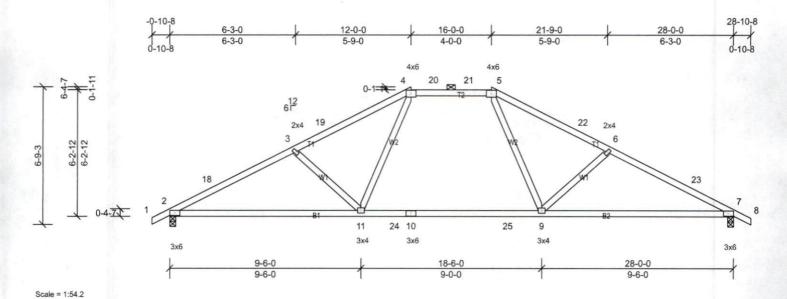
Job	Truss	Truss Type	Qty	Ply	
Wayne O'Quinn	A05	Hip	2	1	Job Reference (optional)

Run: 8.62 S Oct 13 2022 Print: 8.620 S Oct 13 2022 MiTek Industries, Inc. Thu Mar 02 08:13:07

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Weight: 123 lb FT = 20%

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.53	Vert(LL)	-0.26	9-17	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.42	9-17	>801	180			
BCLL	0.0*	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.06	7	n/a	n/a			

LUMBER

BCDL

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.1 2x4 SP No.3 **WEBS**

BRACING TOP CHORD

Structural wood sheathing directly applied.

except 2-0-0 oc purlins (4-9-8 max.): 4-5.

10.0

Code

BOT CHORD Rigid ceiling directly applied.

REACTIONS (lb/size) 2=1172/0-3-8, (min. 0-1-9),

7=1173/0-3-8, (min. 0-1-9)

Max Horiz 2=100 (LC 11)

Max Uplift 2=-94 (LC 12), 7=-94 (LC 12) Max Grav 2=1299 (LC 17), 7=1299 (LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown TOP CHORD 2-18=-2205/165, 3-18=-2177/193

3-19=-1970/145, 4-19=-1896/173, 4-20=-1453/192, 20-21=-1453/192, 5-21=-1453/192, 5-22=-1896/173, 6-22=-1970/145, 6-23=-2177/193,

7-23=-2205/165

BOT CHORD 2-11=-95/2017, 11-24=-8/1475, 10-24=-8/1475, 10-25=-8/1475,

9-25=-8/1475, 7-9=-104/1941

WEBS 5-9=0/684, 4-11=0/683, 3-11=-433/142,

6-9=-433/142

NOTES

- 1) Unbalanced roof live loads have been considered for this
- Wind: ASCE 7-16; Vult=125mph (3-second gust)
 Vasd=99mph; TCDL=6.0psf; BCDL=6.0psf; h=28ft;
 B=45ft; L=28ft; eave=4ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 12-0-0, Exterior(2E) 12-0-0 to 16-0-0, Exterior(2R) 16-0-0 to 20-2-15, Interior (1) 20-2-15 to 28-10-8 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 2 and 94 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

IRC2018/TPI2014 Matrix-AS

ob	Truss	Truss Type	Qty	Ply		
/ayne O'Quinn	A06	Common	5	1	Job Reference (optional)	
rolina Structural Systems, Star	, NC 27356, Jeremy Phillips				t 13 2022 MiTek Industries, Inc. Thu Mar 02 08:13:08 p50KaROHcevzf1ae-hpD31?nzIL_2p?6spaECV27m2ibxlC	Page:
	-0-10-8 0-10-8	7-3-0 7-3-0	14-0-0 6-9-0	20-9-0 6-9-0	0 28-0-0 28-10-	8
			4x5 5			
		6 ¹² 3x4	24 37	25		
		2x4 4			3x4 6 2x4	
7-9-3		3	/1/2	MA	7	
	23	H	//		y 1 26	
	2		8 1 12 8 1 12	310 8 8	200	
10-4-3		B1 16	1427 11	28	2910	,
	3x6	3x4	4 MT18HS 3x10 2x4 2x4	1	2x4 3x6 3x4	
		0.4	12-0-0 2x4		4000	
	<u> </u>	9-3-0		18-2-2	18-9-0 3-3-5 28-0-0	
	1	9-3-0	1 2-2-2 1 2-0-0 1 -11 -1-4	4-2-2	1 9-3-0 1 -1-4 0-5-11	

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.53	Vert(LL)	-0.40	13	>843	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.67	13	>498	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-AS							Weight: 141 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

2x4 SP No.1 *Except* B2:2x4 SP No.2 **BOT CHORD**

2x4 SP No.3 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied. Except:

6-0-0 oc bracing: 12-15

REACTIONS (lb/size)

2=1260/0-3-8, (min. 0-1-11), 8=1260/0-3-8, (min. 0-1-11)

Max Horiz 2=117 (LC 11)

Max Uplift 2=-42 (LC 12), 8=-42 (LC 12)

Max Grav 2=1452 (LC 17), 8=1452 (LC 18)

(lb) - Max. Comp./Max. Ten. - All forces 250

FORCES (lb) or less except when shown.

2-23=-2529/41, 3-23=-2485/69, 3-4=-2376/64, 4-24=-2293/80, TOP CHORD

5-24=-2291/97, 5-25=-2291/97, 6-25=-2293/80, 6-7=-2376/64,

7-26=-2485/69, 8-26=-2529/41

BOT CHORD 2-16=0/2296, 14-16=0/1624, 14-27=0/1624,

11-27=0/1624, 11-28=0/1624, 28-29=0/1624,

10-29=0/1624, 8-10=0/2223

WEBS 5-12=0/1096, 10-12=-14/916, 7-10=-424/163,

15-16=-14/917, 5-15=0/1096, 3-16=-424/163

1) Unbalanced roof live loads have been considered for this

- Wind: ASCE 7-16; Vult=125mph (3-second gust) Vasd=99mph; TCDL=6.0psf; BCDL=6.0psf; h=28ft; B=45ft; L=28ft; eave=4ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 14-0-0, Exterior(2R) 14-0-0 to 17-0-0, Interior (1) 17-0-0 to 28-10-8 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, with BCDL = 10.0psf.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 2 and 42 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

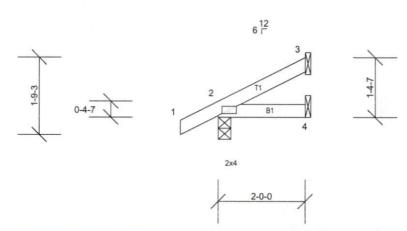
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply		
Wayne O'Quinn	J03	Jack-Open	4	1	Job Reference (optional)	

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Scale = 1:25.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.05	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	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	IRC2018/TPI2014	Matrix-MP	22.50					704000	Weight: 8 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

2-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size)

2=144/0-3-8, (min. 0-1-8), 3=45/ Mechanical, (min. 0-1-8), 4=23/

Mechanical, (min. 0-1-8)

Max Horiz 2=47 (LC 12)

Max Uplift 2=-31 (LC 12), 3=-13 (LC 12)

Max Grav 2=144 (LC 1), 3=45 (LC 1), 4=34

(LC 3)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

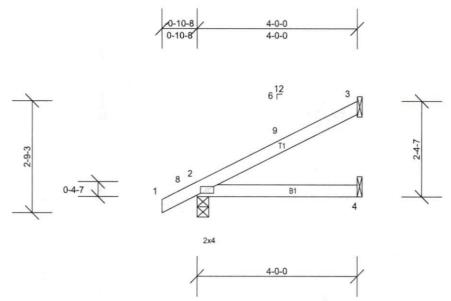
NOTES

- Wind: ASCE 7-16; Vult=125mph (3-second gust) Vasd=99mph; TCDL=6.0psf; BCDL=6.0psf; h=28ft; B=45ft; L=24ft; eave=4ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 3 and 31 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	
Wayne O'Quinn	J04		22	1	Job Reference (optional)

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Scale = 1:27.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.20	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.02	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	IRC2018/TPI2014	Matrix-AS	71702000					2000000	Weight: 14 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied

REACTIONS (lb/size)

2=216/0-3-8, (min. 0-1-8), 3=102/ Mechanical, (min. 0-1-8), 4=50/ Mechanical, (min. 0-1-8)

Mechanical, (mi Max Horiz 2=75 (LC 12)

Max Uplift 2=-25 (LC 12), 3=-34 (LC 12)

Max Grav 2=216 (LC 1), 3=102 (LC 1), 4=71

(LC 3)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

NOTES

- Wind: ASCE 7-16; Vult=125mph (3-second gust) Vasd=99mph; TCDL=6.0psf; BCDL=6.0psf; h=28ft; B=45ft; L=24ft; eave=4ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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
- 3) * This truss has been designed for a live load of 20.0psi 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 3 and 25 lb uplift at joint 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.