

RE: J0121-0605 Lot 56 Sierra Village Trenco 818 Soundside Rd Edenton, NC 27932

Site Information: Customer: Project Name: J0121-0605 Lot/Block: Address: City: State:

Model: Subdivision:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2015/TPI2014 Wind Code: ASCE 7-10 Roof Load: 40.0 psf

Design Program: MiTek 20/20 8.3 Wind Speed: 130 mph Floor Load: N/A psf

This package includes 24 individual, dated Truss Design Drawings and 0 Additional Drawings.

17 E15396312 J02 18 E15396313 J03 19 E15396314 I04	2/10/2021 2/10/2021 2/10/2021 2/10/2021 2/10/2021		
19 E15396314 J04	2/10/2021		
20 E15396315 M01	2/10/2021		

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision

based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Strzyzewski, Marvin

My license renewal date for the state of North Carolina is December 31, 2020

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



February 10, 2021

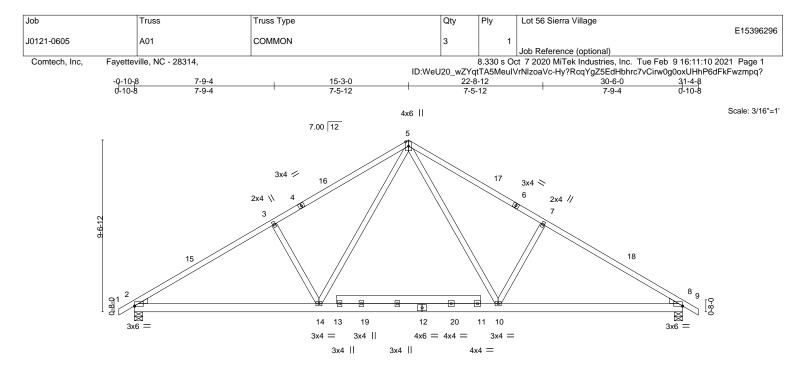


Plate Offsets (X,Y)	10-3-3 10-3-3 [2:0-0-0,0-0-4], [8:0-0-0,0-0-4]	<u>11-3-0 15-3-0</u> 0-11-13 4-0-0	<u>19-3-0 20-2-13</u> 4-0-0 0-11-13	<u>30-6-0</u> 10-3-3	
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.60 BC 0.45 WB 0.21 Matrix-S	DEFL. in (loc) Vert(LL) -0.08 10-14 Vert(CT) -0.19 10-14 Horz(CT) 0.04 8 Wind(LL) 0.05 2-14	l/defl L/d >999 360 >999 240 n/a n/a >999 240	PLATES GRIP MT20 244/190 Weight: 192 lb FT = 20%
UMBER-	1	1	BRACING-		

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No 1 BOT CHORD 2x6 SP No.1 2x4 SP No.2 *Except* WEBS

11-13: 2x6 SP No.1 WEDGE

Left: 2x4 SP No.3 , Right: 2x4 SP No.3

(size)	2=0-5-8, 8=0-5-8
Max Horz	2=-226(LC 10)
Max Grav	2=1368(LC 1), 8=1368(LC 1)
	Max Horz

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

TOP CHORD 2-3=-2041/186, 3-5=-1854/246, 5-7=-1855/246, 7-8=-2041/186

BOT CHORD 2-14=-35/1775, 10-14=0/1171, 8-10=-40/1631

WEBS 5-10=-24/875, 7-10=-430/277, 5-14=-24/874, 3-14=-430/277

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 15-3-0, Exterior(2) 15-3-0 to 19-7-13, Interior(1) 19-7-13 to 31-4-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) 200.0lb AC unit load placed on the bottom chord, 15-3-0 from left end, supported at two points, 5-0-0 apart.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

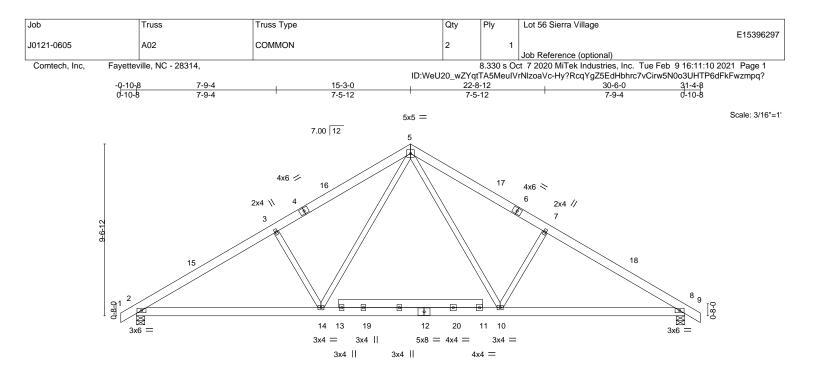


Structural wood sheathing directly applied or 3-8-15 oc purlins.

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see MSIVTP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





	10-3-3 10-3-3	<u> 11-3-0 15-3-0</u> <u> 0-11-13 4-0-0</u>	<u>19-3-0 20-2-13</u> <u>4-0-0 0-11-13</u>	30-6-0 10-3-3	
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0	SPACING- 2-1-8 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.30 BC 0.51 WB 0.23	DEFL. in (loc) Vert(LL) -0.08 10-14 Vert(CT) -0.17 10-14 Horz(CT) 0.04 8	l/defl L/d >999 360 >999 240 n/a n/a	PLATES GRIP MT20 244/190
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.04 10-14	>999 240	Weight: 222 lb FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *Except*
	11-13: 2x6 SP No.1

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 5-0-15 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

- REACTIONS. (size) 2=0-5-8, 8=0-5-8 Max Horz 2=-240(LC 10) Max Grav 2=1447(LC 1), 8=1447(LC 1)
- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- TOP CHORD 2-3=-2163/211, 3-5=-1975/269, 5-7=-1975/269, 7-8=-2163/211
- BOT CHORD 2-14=-48/1915, 10-14=0/1249, 8-10=-58/1761
- WEBS 5-10=-30/931, 7-10=-489/300, 5-14=-30/930, 3-14=-489/300

NOTES-

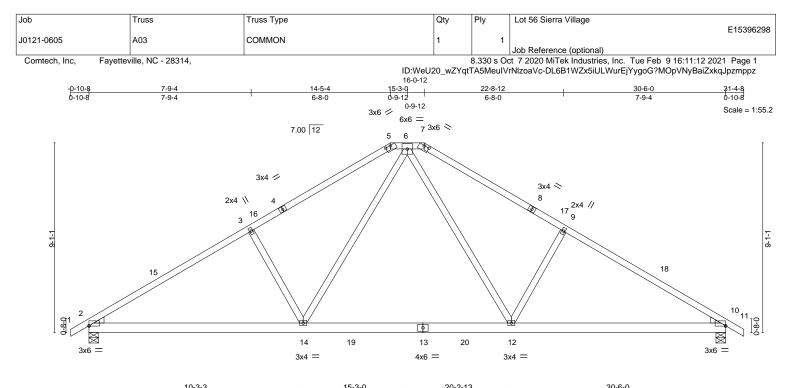
1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 15-3-0, Exterior(2) 15-3-0 to 19-7-13, Interior(1) 19-7-13 to 31-4-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 15-3-0 from left end, supported at two points, 5-0-0 apart.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.



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	10-3-3	15-3-0	20-2-13	1	30-6-0	
I	10-3-3	4-11-13	4-11-13	1	10-3-3	1
Plate Offsets (X,Y)	[2:0-0-0,0-0-4], [5:0-3-0,0-0-4], [7:0-3-0	,0-0-4], [10:Edge,0-0-4]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc	:) I/defl L/d	PLATES GI	RIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.59	Vert(LL) -0.14 12-14	4 >999 360	MT20 24	4/190
TCDL 10.0	Lumber DOL 1.15	BC 0.39	Vert(CT) -0.21 12-14	4 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.25	Horz(CT) 0.04 1	0 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.06 2-14	4 >999 240	Weight: 172 lb	T = 20%
LUMBER-			BRACING-			
TOP CHORD 2x4 SP	? No.1		TOP CHORD Struc	ctural wood sheathing dire	ectly applied or 3-11-4 oc	ourlins,
BOT CHORD 2x6 SP	? No.1		exce	pt		
WEBS 2x4 SP	P No.2		2-0-0) oc purlins (4-6-10 max.)	: 5-7.	

 WEBS
 2x4 SP No.2

 WEDGE
 BOT CHORD

 Left: 2x4 SP No.3 , Right: 2x4 SP No.3
 BOT CHORD

REACTIONS. (size) 2=0-5-8, 10=0-5-8 Max Horz 2=-215(LC 10) Max Uplift 2=-79(LC 12), 10=-79(LC 13) Max Grav 2=1268(LC 1), 10=1268(LC 1)

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

- TOP CHORD 2-3=-1837/402, 3-5=-1644/457, 7-9=-1645/457, 9-10=-1837/402, 5-6=-1422/454,
- 6-7=-1422/454
- BOT CHORD 2-14=-232/1596, 12-14=-31/1038, 10-12=-229/1456
- WEBS 6-12=-142/764, 9-12=-416/274, 6-14=-142/764, 3-14=-416/274

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 14-5-4, Exterior(2) 14-5-4 to 22-3-7, Interior(1) 22-3-7 to 31-4-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.

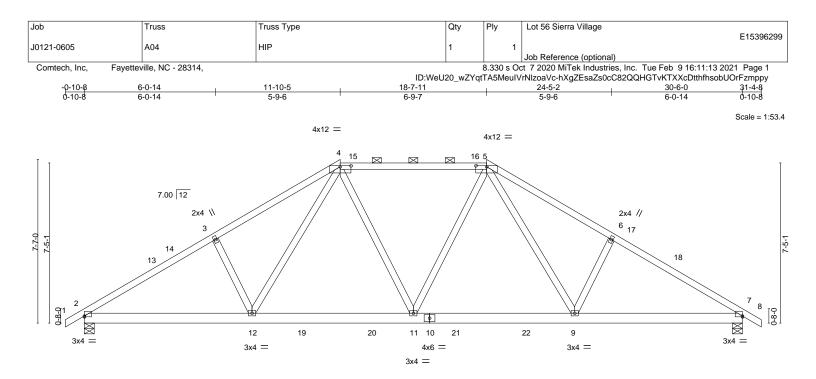
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

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 	7-9-4	<u>15-3-0</u> 7-5-12		22-8-12 7-5-12			<u> </u>	
Plate Offsets (X,Y)	[2:Edge,0-0-8], [4:0-6-0,0-0-9], [5:0-6-0	-		7-5-12			1-3-4	
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.62 BC 0.31 WB 0.13 Matrix-S	Vert(LL) -0.0	2 9-11 14 7	>999 >999 7 n/a	L/d 360 240 n/a 240	PLATES MT20 Weight: 183 lb	GRIP 244/190 FT = 20%
UMBER-		Matrix C	BRACING-		2000	240	Weight. 100 lb	11 - 2070
OP CHORD 2x4 S OT CHORD 2x6 S			TOP CHORD	excep	ot	sheathing d	irectly applied or 4-3-10): 4-5.	oc purlins,
Max I	ze) 7=0-5-8, 2=0-5-8 Horz 2=176(LC 11) Jplift 7=-67(LC 13), 2=-67(LC 12) Grav 7=1268(LC 1), 2=1268(LC 1)		BOT CHORD	Rigid	ceiling dir	ectly applied	or 10-0-0 oc bracing.	
OP CHORD 2-3=	. Comp./Max. Ten All forces 250 (lb) c 1893/453, 3-4=-1727/511, 4-5=-1266/4 2=-293/1588, 11-12=-149/1225, 9-11=-1	14, 5-6=-1727/511, 6-7=-1						

WEBS 3-12=-297/209, 4-12=-113/518, 5-9=-113/518, 6-9=-297/209

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-10-8 to 3-6-5, Interior(1) 3-6-5 to 11-10-5, Exterior(2) 11-10-5 to 18-0-15, Interior(1) 18-0-15 to 18-7-11, Exterior(2) 18-7-11 to 24-10-6, Interior(1) 24-10-6 to 31-4-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

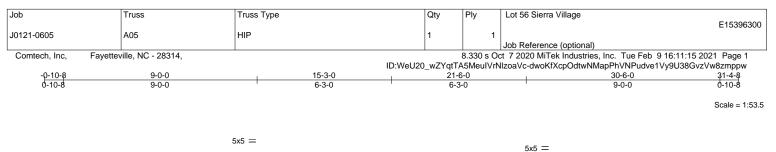
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.

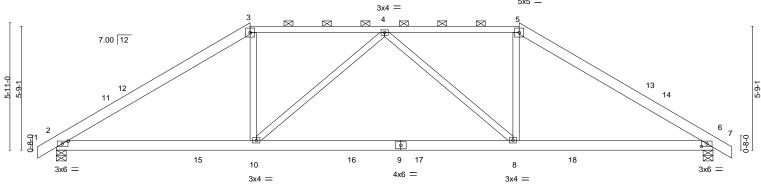
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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 	9-0-0		<u>21-6-0</u> 12-6-0					<u> </u>	
Plate Offsets (X,Y)	[2:0-3-3,0-1-8], [6:0-3-3,0-1-8]		12-0-0					3-0-0	
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.46 BC 0.46 WB 0.46 Matrix-S	Vert(CT) Horz(CT)	-0.11 -0.24 0.04	(loc) 8-10 8-10 6 2-10	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 183 lb	GRIP 244/190 FT = 20%
			BRACING- TOP CHORE BOT CHORE		except 2-0-0 o	oc purlins	(4-10-12 ma	irectly applied or 5-0-10 x.): 3-5. or 10-0-0 oc bracing.	oc purlins,
Max H Max U	e) 2=0-5-8, 6=0-5-8 lorz 2=138(LC 11) plift 2=-49(LC 12), 6=-49(LC 13) rav 2=1268(LC 1), 6=1268(LC 1)								
TOP CHORD 2-3= BOT CHORD 2-10	Comp./Max. Ten All forces 250 (lb) o -1845/408, 3-4=-1487/431, 4-5=-1487/4 196/1472, 8-10=-307/1684, 6-8=-195/ =0/578, 4-10=-401/185, 4-8=-401/185, 5	31, 5-6=-1845/408 1472							

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

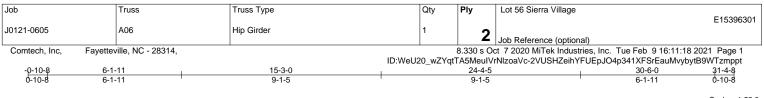
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 9-0-0, Exterior(2) 9-0-0 to 15-3-0, Interior(1) 15-3-0 to 21-6-0, Exterior(2) 21-6-0 to 27-8-11, Interior(1) 27-8-11 to 31-4-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) Provide adequate drainage to prevent water ponding.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

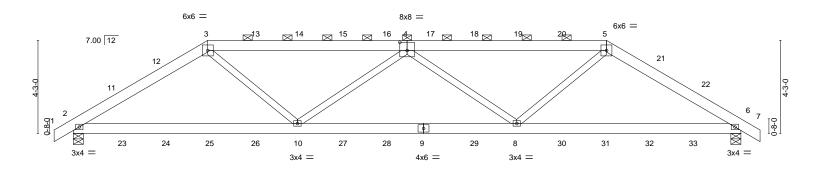


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818 Soundside Road Edenton, NC 27932



Scale = 1:52.6



	<u>10-2-14</u> 10-2-14		<u>20-3-2</u> 10-0-4			<u> </u>	
Plate Offsets (X,Y)	[4:0-4-0,0-4-8]		10-0-4			10-2-14	
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2015/TPI2014	CSI. TC 0.27 BC 0.32 WB 0.13 Matrix-S	Vert(LL) -0.05 Vert(CT) -0.12 Horz(CT) 0.03	6-8 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 373 lb	GRIP 244/190 FT = 20%
	No.1 No.2 e) 2=0-5-8, 6=0-5-8		BRACING- TOP CHORD BOT CHORD	2-0-0 oc purlin	s (6-0-0 max.):	rectly applied or 6-0-0 o : 3-5. or 10-0-0 oc bracing.	oc purlins, except
Max U Max G ORCES. (Ib) - Max. OP CHORD 2-3=- OT CHORD 2-10=	orz 2=99(LC 7) plift 2=-426(LC 5), 6=-428(LC 4) rav 2=1680(LC 1), 6=1681(LC 1) Comp./Max. Ten All forces 250 (Ib) 2520/821, 3-4=-2841/849, 4-5=-2841 729/2062, 8-10=-1228/3380, 6-8=-6 196/1078, 4-10=-700/526, 4-8=-699	/851, 5-6=-2522/825 68/2063	n.				
Top chords connecte Bottom chords conn. Webs connected as 2) All loads are conside ply connections have 3) Unbalanced roof live 4) Wind: ASCE 7-10; V MWFRS (envelope); 5) Provide adequate dr 5) This truss has been will fit between the b 3) Provide mechanical 2=426, 6=428. 9) Graphical purlin repr (0) Hanger(s) or other 2-2-7, 75 lb down at and 108 lb up at 11 16-3-9, 111 lb dow down and 111 lb up lb down at 2-2-7, 3 down at 14-3-9, 34	nected together with 10d (0.131"x3") ed as follows: 2x6 - 2 rows staggered follows: 2x4 - 1 row at 0-9-0 oc. ared equally applied to all plies, excep e been provided to distribute only load loads have been considered for this ult=130mph (3-second gust) Vasd=1 Lumber DOL=1.60 plate grip DOL=1 ainage to prevent water ponding. designed for a 10.0 psf bottom chord in designed for a live load of 20.0psf c ottom chord and any other members. connection (by others) of truss to bear resentation does not depict the size o connection device(s) shall be provide and 108 lb up at 4-2-7, 106 lb down ar 0-3-9, 111 lb down and 108 lb up at n and 108 lb up at 18-3-9, 111 lb dow o at 24-4-5, and 75 lb down at 6- 11 lb down at 16-3-9, 34 lb down at 12 26-3-9, and 32 lb down at 28-3-9 on ters.	at 0-9-0 oc. red at 0-9-0 oc. bt if noted as front (F) or bac ds noted as (F) or (B), unles design. 03mph; TCDL=6.0psf; BCD .60 live load nonconcurrent wit in the bottom chord in all ar iring plate capable of withst r the orientation of the purlii d sufficient to support conc d 111 lb up at 6-1-11, 111 12-3-9, 111 lb down and 10 vn and 108 lb up at 20-3-9, 0 up at 26-3-9, and 78 lb dc 2-7, 34 lb down at 8-3-9, 3 3-3-9, 34 lb down at 20-3-9	ss otherwise indicated. PL=6.0psf; h=15ft; Cat. II; th any other live loads. eas where a rectangle 3-6 canding 100 lb uplift at joir n along the top and/or bot centrated load(s) 78 lb dow lb down and 108 lb up at 8 lb up at 14-3-9, 111 lb own and 78 lb up at 28-3: 4 lb down at 10-3-9, 34 li 0, 34 lb down at 22-3-9, 3	Exp C; Enclosed 6-0 tall by 2-0-0 ht(s) except (jt=ll tom chord. wn and 78 lb up 8-3-9, 111 lb di down and 108 ll up at 22-3-9, 10 -9 on top chord, o down at 12-3- 4 lb down at 24	d; b) at b) at b) b) at b) b) at b) b) at b) b) at b) b) at b) b) at b) b) b) b) b) b) b) b) b) b) b) b) b)	SEA 1667 February	13 EER. Control
Design valid for use only a truss system. Before u building design. Bracing is always required for sta fabrication, storage, deliv	with MiTek® connectors. This design is based set, the building designer must verify the applic indicated is to prevent buckling of individual tr ability and to prevent collapse with possible per very, erection and bracing of trusses and truss allable from Truss Plate Institute, 2670 Crain Hi	only upon parameters shown, and ability of design parameters and pro uss web and/or chord members onl sonal injury and property damage. systems, see ANSI/TP11	I is for an individual building com operly incorporate this design int ly. Additional temporary and per For general guidance regarding <i>Quality Criteria, DSB-89 and B</i>	ponent, not o the overall manent bracing the	ponent	818 Soundside F Edenton, NC 275	

ſ	Job	Truss	Truss Type	Qty	Ply	Lot 56 Sierra Village
						E15396301
	J0121-0605	A06	Hip Girder	1	2	
					2	Job Reference (optional)
	Comtech, Inc, Fayettev	ille, NC - 28314,			8.330 s Oc	t 7 2020 MiTek Industries, Inc. Tue Feb 9 16:11:18 2021 Page 2
						· · · · · · · · · · · · · · · · · · ·

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 5-7=-60, 2-6=-20

Concentrated Loads (lb)

Vert: 3=-41(F) 5=-41(F) 9=-17(F) 10=-17(F) 8=-17(F) 11=-38(F) 12=-35(F) 13=-41(F) 14=-41(F) 15=-41(F) 16=-41(F) 17=-41(F) 18=-41(F) 19=-41(F) 20=-41(F) 21=-35(F) 22=-38(F) 23=-25(F) 24=-23(F) 25=-17(F) 26=-17(F) 27=-17(F) 28=-17(F) 29=-17(F) 30=-17(F) 31=-17(F) 32=-23(F) 33=-25(F)

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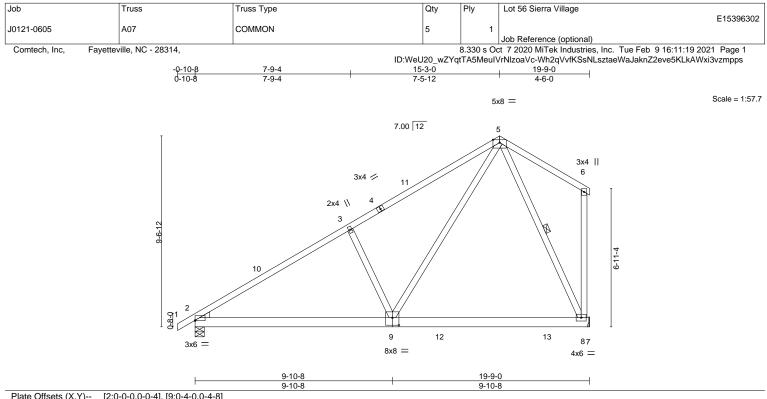


Plate Olisets (X, Y)	[2:0-0-0,0-0-4], [9:0-4-0,	0-4-8]									
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.12	8-9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.18	8-9	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.01	8	n/a	n/a		
BCDL 10.0	Code IRC2015/T	PI2014	Matri	x-S	Wind(LL)	0.04	2-9	>999	240	Weight: 129 lb	FT = 20%
LUMBER-					BRACING						
TOP CHORD 2x4 SP	9 No.1				TOP CHOR	RD	Structu	ral wood	sheathing d	irectly applied or 5-5-11	oc purlins,
BOT CHORD 2x6 SP	9 No.1						except	end verti	cals.		· /
WEBS 2x4 SP	9 No.2				BOT CHOR	RD	Rigid c	eiling dire	ectly applied	or 10-0-0 oc bracing.	
WEDGE					WEBS		0	at midpt	2 11	5-8	
Left: 2v4 SP No 3											

Left: 2x4 SP No.3

REACTIONS. (size) 2=0-5-8, 8=Mechanical Max Horz 2=254(LC 12) Max Uplift 2=-43(LC 12), 8=-84(LC 12) Max Grav 2=842(LC 19), 8=869(LC 19)

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

TOP CHORD 2-3=-1079/155, 3-5=-930/234

BOT CHORD 2-9=-276/929, 8-9=-84/309

WEBS 3-9=-480/281, 5-9=-150/868, 5-8=-709/199

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 15-3-0, Exterior(2) 15-3-0 to 19-5-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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, with BCDL = 10.0psf.

5) Refer to girder(s) for truss to truss connections.

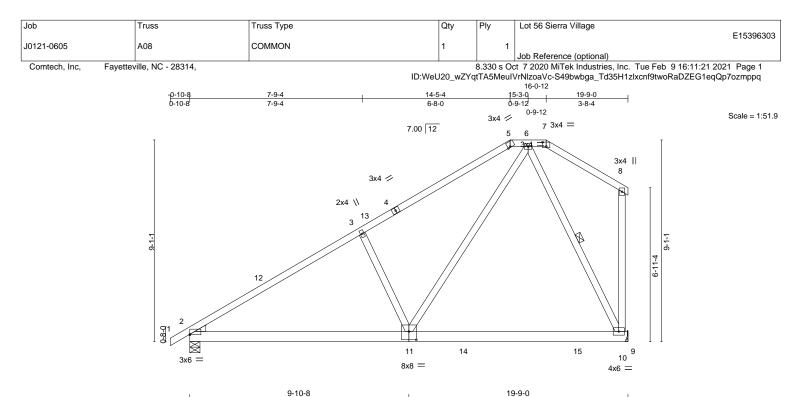
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.



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Edenton, NC 27932



LOADING (psf) SPACING- 2-0-0 CSI. TCLL 20.0 Plate Grip DOL 1.15 TC 0.48 TCDL 10.0 Lumber DOL 1.15 BC 0.34 BCLL 0.0 * Rep Stress Incr YES WB 0.29 BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Image: Code IRC2015/TPI2014 Matrix-S	Vert(LL) -0.12 Vert(CT) -0.18 Horz(CT) 0.01 Wind(LL) 0.04 BRACING-	10-11 >999 3 10-11 >999 2 10 n/a	360 M 240 n/a	PLATES MT20 Weight: 128 lb	GRIP 244/190 FT = 20%
LOADING (psf) SPACING- 2-0-0 CSI. TCLL 20.0 Plate Grip DOL 1.15 TC 0.48 TCDL 10.0 Lumber DOL 1.15 BC 0.34 BCLL 0.0 * Rep Stress Incr YES WB 0.29 BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Image: Code IRC2015/TPI2014 Matrix-S	Vert(LL) -0.12 Vert(CT) -0.18 Horz(CT) 0.01 Wind(LL) 0.04 BRACING-	10-11 >999 3 10-11 >999 2 10 n/a	360 M 240 n/a	MT20	244/190
TCLL 20.0 Plate Grip DOL 1.15 TC 0.48 TCDL 10.0 Lumber DOL 1.15 BC 0.34 BCLL 0.0 * Rep Stress Incr YES WB 0.29 BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Image: Code IRC2015/TPI2014 Matrix-S	Vert(LL) -0.12 Vert(CT) -0.18 Horz(CT) 0.01 Wind(LL) 0.04 BRACING-	10-11 >999 3 10-11 >999 2 10 n/a	360 M 240 n/a	MT20	244/190
TCDL 10.0 Lumber DOL 1.15 BC 0.34 BCLL 0.0 * Rep Stress Incr YES WB 0.29 BCDL 10.0 Code IRC2015/TPI2014 Matrix-S LUMBER- Image: Code Im	Vert(CT) -0.18 Horz(CT) 0.01 Wind(LL) 0.04 BRACING-	10-11 >999 2 10 n/a	240 n/a		
BCLL 0.0 * Rep Stress Incr YES WB 0.29 BCDL 10.0 Code IRC2015/TPI2014 Matrix-S	Horz(CT) 0.01 Wind(LL) 0.04 BRACING-	10 n/a	n/a	Weight: 128 lb	FT = 20%
BCDL 10.0 Code IRC2015/TPI2014 Matrix-S	Wind(LL) 0.04 BRACING-			Weight: 128 lb	FT = 20%
LUMBER-	BRACING-	2-11 >999 2	240	Weight: 128 lb	FT = 20%
	TOP CHORD	Structural wood sh	eathing directly ap	oplied or 5-4-12	oc purlins.
BOT CHORD 2x6 SP No.1		except end vertical			
WEBS 2x4 SP No.2	BOT CHORD	Rigid ceiling directl	· · · · ·	(, -
WEDGE	WEBS	1 Row at midpt	6-10	j	
Left: 2x4 SP No.3					
REACTIONS. (size) 2=0-5-8, 10=Mechanical					
Max Horz 2=249(LC 12)					
Max Uplift 2=-43(LC 12), 10=-74(LC 12)					
Max Grav 2=838(LC 1), 10=840(LC 19)					

- BOT CHORD 2-11=-297/899, 10-11=-99/296
- WEBS 3-11=-441/283, 6-11=-155/835, 6-10=-642/226

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 14-5-4, Exterior(2) 14-5-4 to 19-5-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

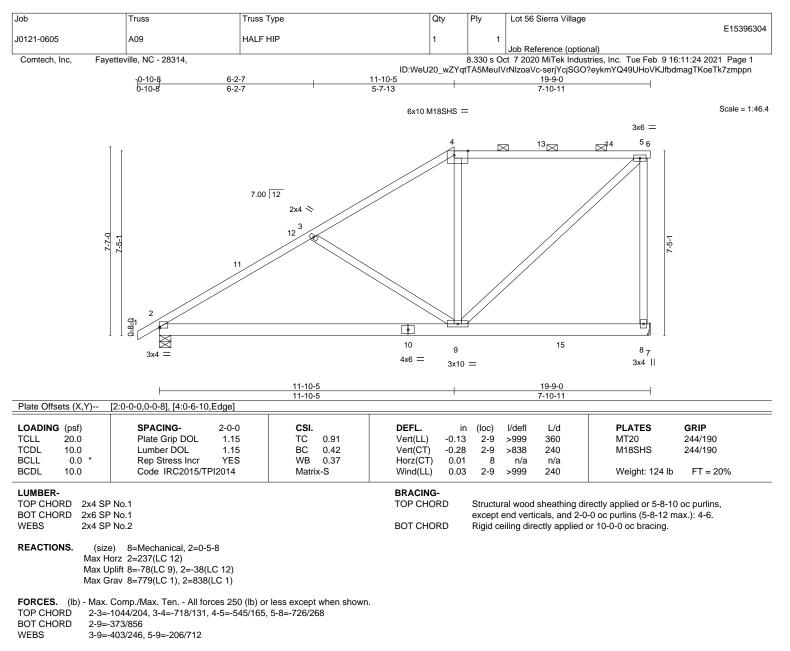
3) Provide adequate drainage to prevent water ponding.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) 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) 2, 10.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 11-10-5, Exterior(2) 11-10-5 to 18-0-15, Interior(1) 18-0-15 to 19-9-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.

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, with BCDL = 10.0psf.

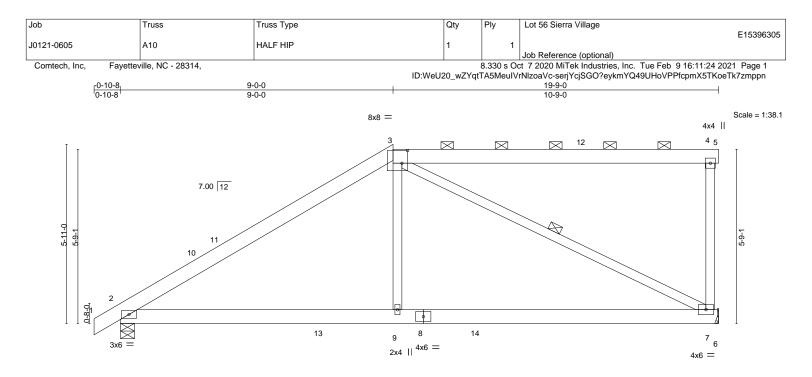
7) Refer to girder(s) for truss to truss connections.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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F	9-0-0			<u> </u>					
Plate Offsets (X,Y)	[3:0-2-4,0-5-0]								
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.59 BC 0.35 WB 0.54 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.08 -0.15 0.01 0.04	(loc) 7-9 7-9 7 2-9	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 130 lb	GRIP 244/190 FT = 20%
Max U	No.1 No.2		BRACING- TOP CHOR BOT CHOR WEBS	D	except Rigid c	end vert	icals, and 2-0 ectly applied (rectly applied or 6-0-0 d I-0 oc purlins (6-0-0 ma or 10-0-0 oc bracing. 3-7	· · ·
TOP CHORD 2-3=- BOT CHORD 2-9=-	Comp./Max. Ten All forces 250 (lb) or 1063/177, 4-7=-310/157 241/818, 7-9=-237/829)/463, 3-7=-891/253	less except when shown.							

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 9-0-0, Exterior(2) 9-0-0 to 15-2-11, Interior(1) 15-2-11 to 19-9-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

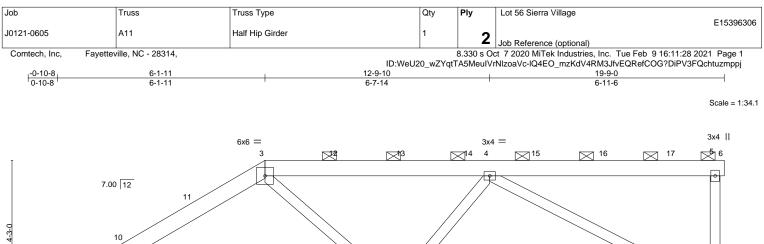
6) Refer to girder(s) for truss to truss connections.

- (i) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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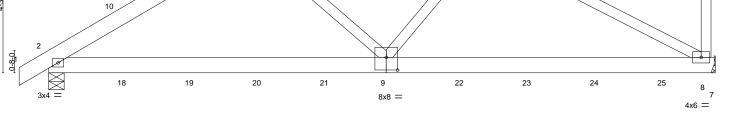


Image: Non-information 10-0-1 9-8-15 Plate Offsets (X,Y) [9:0-4-0,0-4-8] PLATES GRIP LOADING (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl L/d PLATES GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.14 Vert(LL) -0.03 2-9 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.25 Vert(CT) -0.08 2-9 >999 240 BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.02 2-9 >999 240 Weight: 255 lb FT = 20%	
TCLL 20.0 Plate Grip DOL 1.15 TC 0.14 Vert(LL) -0.03 2-9 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.25 Vert(CT) -0.08 2-9 >999 240 BCLL 0.0 * Rep Stress Incr NO WB 0.32 Horz(CT) 0.01 8 n/a n/a	
BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.02 2-9 >999 240 Weight: 255 lb FT = 20%	
LUMBER- BRACING- TOP CHORD 2x6 SP No.1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-6. WEBS 2x4 SP No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.	
REACTIONS. (size) 8=Mechanical, 2=0-5-8 Max Horz 2=132(LC 8) Max Uplift 8=-368(LC 5), 2=-246(LC 8) Max Grav 8=1052(LC 1), 2=1095(LC 1)	
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1430/449, 3-4=-1363/383 BOT CHORD 2-9=-413/1135, 8-9=-504/1284 WEBS 3-9=0/461, 4-9=0/396, 4-8=-1435/574	
 NOTES- 1) 2-ply truss to be connected together with 10d (0.131*x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x6 - 2 rows staggered 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) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 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 10.0 psf bottom chord in ell 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 (it=lb) 8-368, 2-2246. 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 75 lb down and 78 lb up at 4-2-7, 10 lb down and 111 lb up at 6-1-11, 111 lb down and 108 lb up at 10-2-7, 111 lb down and 108 lb up at 10-2-7, 111 b down and 108 lb up at 10-2-7, 34 lb down at 12-2-7, 34 lb down at 12-2-7,	ANNAN INTER

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Job	Truss	Truss Type	Qty	Ply	Lot 56 Sierra Village
					E15396306
J0121-0605	A11	Half Hip Girder	1	2	
				–	Job Reference (optional)
Comtech, Inc, Fay	etteville, NC - 28314,			8.330 s Oc	t 7 2020 MiTek Industries, Inc. Tue Feb 9 16:11:28 2021 Page 2

ID:WeU20_wZYqtTA5MeuIVrNIzoaVc-IQ4EO_mzKdV4RM3JfvEQRefCOG?DiPV3FQchtuzmppj

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

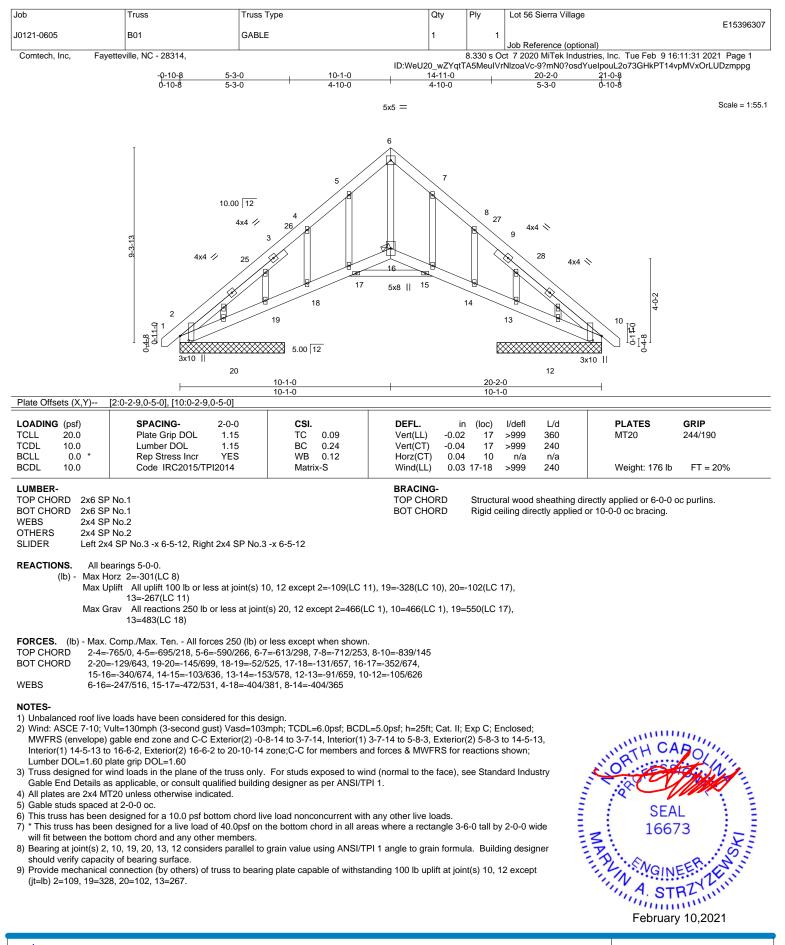
Uniform Loads (plf) Vert: 1-3=-60, 3-5=-60, 5-6=-20, 2-7=-20

Concentrated Loads (lb)

Vert: 3=-41(B) 9=-17(B) 10=-38(B) 11=-35(B) 12=-41(B) 13=-41(B) 14=-41(B) 15=-41(B) 16=-41(B) 17=-41(B) 18=-25(B) 19=-23(B) 20=-17(B) 21=-17(B) 22=-17(B) 23=-17(B) 24=-17(B) 25=-17(B) 25

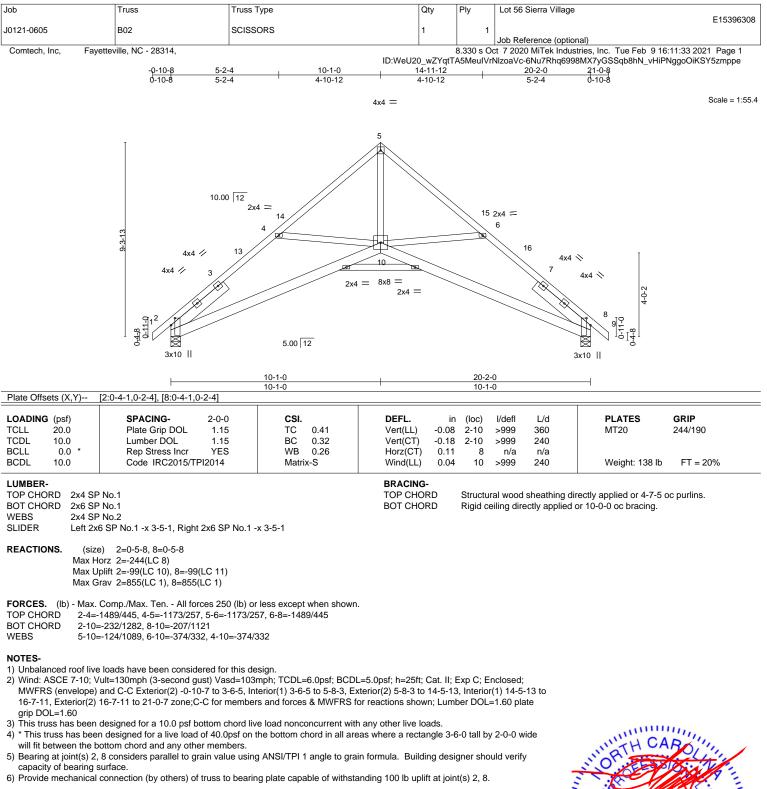
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





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818 Soundside Road Edenton, NC 27932

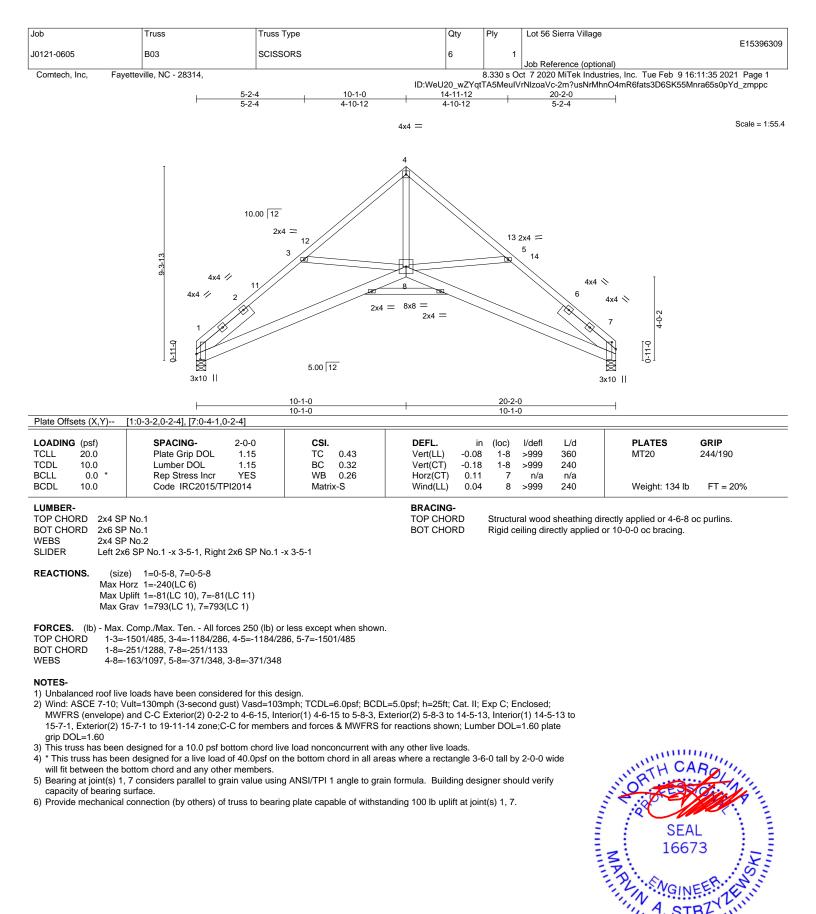




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ENGINEERING BY A MiTek Affiliate 818 Soundside Road

Edenton, NC 27932

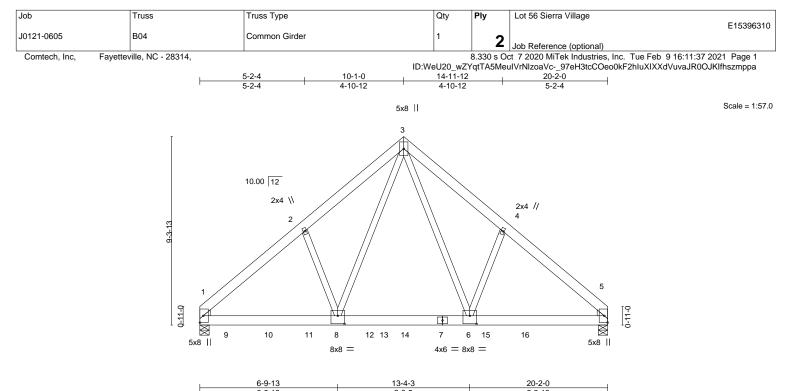


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February 10,2021

STP



.OADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.08	6-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.16	1-8	>999	240		
3CLL 0.0 *	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.03	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI	2014	Matrix	<-S	Wind(LL)	0.08	5-6	>999	240	Weight: 302 lb	FT = 20%

BOT CHORD

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

TOP CHORD2x6 SP No.1BOT CHORD2x6 SP No.1WEBS2x4 SP No.2WEDGE

Left: 2x4 SP No.3 , Right: 2x4 SP No.3

REACTIONS.	(size)	1=0-5-8, 5=0-5-8
	Max Horz	1=-235(LC 4)
	Max Uplift	1=-607(LC 8), 5=-659(LC 9)
	Max Grav	1=4730(I C 2) 5=3930(I C 1)

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

TOP CHORD 1-2=-5258/712, 2-3=-5071/805, 3-4=-4878/890, 4-5=-5090/797

- BOT CHORD 1-8=-536/3803, 6-8=-337/2648, 5-6=-522/3650
- WEBS 3-6=-668/2983, 4-6=-263/394, 3-8=-481/3489, 2-8=-265/385

NOTES-

 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered 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 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 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 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=607, 5=659.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 779 lb down and 103 lb up at 1-4-4, 779 lb down and 103 lb up at 3-4-4, 779 lb down and 103 lb up at 5-4-4, 779 lb down and 103 lb up at 7-0-12, 754 lb down and 103 lb up at 9-0-12, 754 lb down and 93 lb up at 10-1-4, 759 lb down and 97 lb up at 12-1-4, and 759 lb down and 100 lb up at 14-1-4, and 1032 lb up at 388 lb up at 16-0-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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Truss Truss Type	Ply Lot 56 Sierra Village	
	E15:	396310
B04 Common Girder 1)	
	Job Reference (optional)	
Fayetteville, NC - 28314,	8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Feb 9 16:11:37 2021 Pag	ge 2
	8.330 s Oct 7 2020 MiTek Industries, Inc. Tue Feb 9 16:11:37 202	1 Pa

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

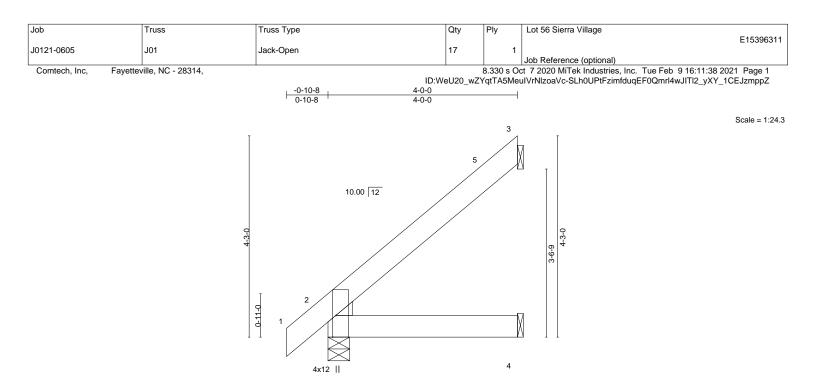
Uniform Loads (plf) Vert: 1-3=-60, 3-5=-60, 1-5=-20

Concentrated Loads (lb)

Vert: 7=-759(B) 8=-754(B) 9=-754(B) 10=-754(B) 11=-754(B) 13=-754(B) 14=-754(B) 15=-759(B) 16=-1032(B)

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		4-0-0	
		4-0-0	
Plate Offsets (X,Y)	[2:0-0-13.0-1-0], [2:0-1-11.0-4-13], [2:0-5-8.Edge]		

LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.11 BC 0.05 WB 0.00	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 2-4 >999 360 Vert(CT) -0.01 2-4 >999 240 Horz(CT) -0.00 3 n/a n/a	PLATES GRIP MT20 244/190
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.00 2 **** 240	Weight: 26 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 WEDGE Left: 2x4 SP No.2

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical Max Horz 2=128(LC 12) Max Uplift 3=-95(LC 12) Max Grav 3=124(LC 19), 2=224(LC 1), 4=74(LC 3)

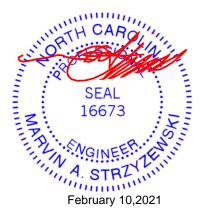
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 3-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.

4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.

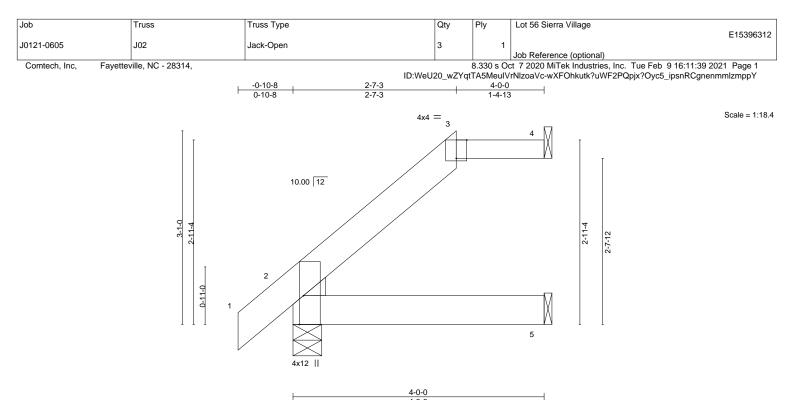


818 Soundside Road Edenton, NC 27932

Structural wood sheathing directly applied or 4-0-0 oc purlins.

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

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		1	4-0-0				
Plate Offsets (X,Y)	[2:0-5-8,Edge], [2:0-1-11,0-4-13], [2:0-0)-13,0-1-0], [3:0-2-0,Edge]				T	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. i	n (loc)	l/defl L	/d PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.12	Vert(LL) -0.00	0 2-5	>999 36	50 MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) -0.00	0 2-5	>999 24	40	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.0	1 4	n/a n	/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.00	0 2-5	>999 24	40 Weight: 23 lb	FT = 20%
LUMBER-			BRACING-				
TOP CHORD 2x6 SF	P No.1 *Except*		TOP CHORD	Struct	ural wood shea	athing directly applied or 4-0-0) oc purlins, except
3-4: 2>	4 SP No.1				oc purlins: 3-4		. / .
BOT CHORD 2x6 SF	P No.1		BOT CHORD			applied or 10-0-0 oc bracing.	

WEDGE Left: 2x4 SP No.2

REACTIONS. (size) 4=Mechanical, 2=0-5-8, 5=Mechanical Max Horz 2=92(LC 12) Max Uplift 4=-38(LC 9), 2=-2(LC 12) Max Grav 4=92(LC 1), 2=224(LC 1), 5=71(LC 3)

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

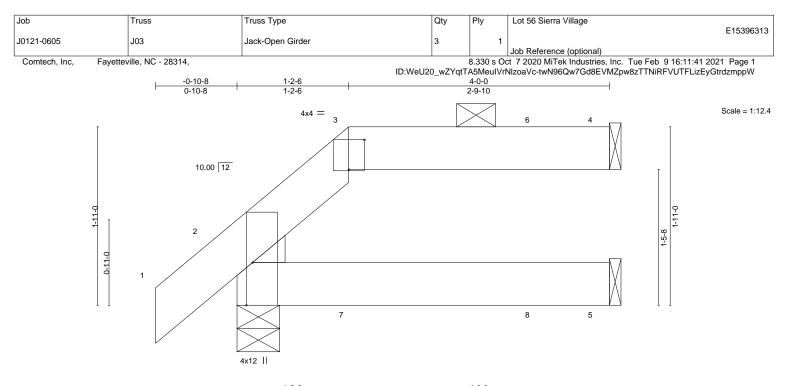
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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) 4, 2.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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			1	1-2-6	1	4-0	-0			1	
			1	1-2-6	T	2-9-	·10				
Plate Offsets	; (X,Y)	[2:0-5-8,Edge], [2:0-1-11	,0-4-13], [2:0-	0-13,0-1-0], [3:0-2-0,	,0-3-13]						
LOADING (osf)	SPACING-	2-0-0	CSI.	DEFL.	in ((loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	0.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	-0.00	2-5	>999	360	MT20	244/190
TCDL 1	0.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.00	2-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.01	4	n/a	n/a		

BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.00	0 2-5 >999 240	Weight: 24 lb FT = 20%
LUMBER-			BRACING-		
TOP CHORD	(6 SP No.1		TOP CHORD	Structural wood sheathing di	rectly applied or 4-0-0 oc purlins, except
BOT CHORD	(6 SP No.1			2-0-0 oc purlins: 3-4.	
WEDGE			BOT CHORD	Rigid ceiling directly applied	or 10-0-0 oc bracing.

Left: 2x4 SP No.2

REACTIONS. (size) 4=Mechanical, 2=0-5-8, 5=Mechanical

Max Horz 2=56(LC 8)

Max Uplift 4=-46(LC 5), 2=-27(LC 8)

Max Grav 4=98(LC 20), 2=225(LC 1), 5=72(LC 3)

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

NOTES-

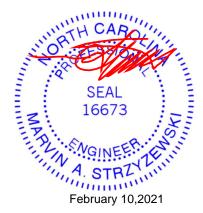
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed;
- MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 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) 4, 2.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 55 lb down and 37 lb up at 1-2-6, and 56 lb down and 35 lb up at 3-3-2 on top chord, and 7 lb down at 1-3-2, and 8 lb down at 3-3-2 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-3=-60, 3-4=-60, 2-5=-20 Concentrated Loads (lb)

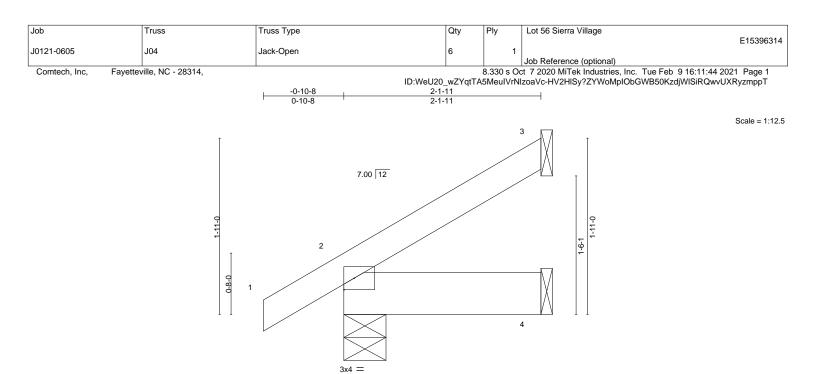
Vert: 8=-2(F)



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Edenton, NC 27932



			2-1-11			1
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	l/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.06	Vert(LL) -0.00	2 :	>999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.01	Vert(CT) -0.00	2 :	>999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	3	n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.00	2	**** 240	Weight: 10 lb FT = 20%

2-1-11

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x6 SP No.1

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical

Max Horz 2=55(LC 12)

Max Uplift 3=-33(LC 12), 2=-9(LC 12)

Max Grav 3=44(LC 19), 2=160(LC 1), 4=37(LC 3)

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

NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.

4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.

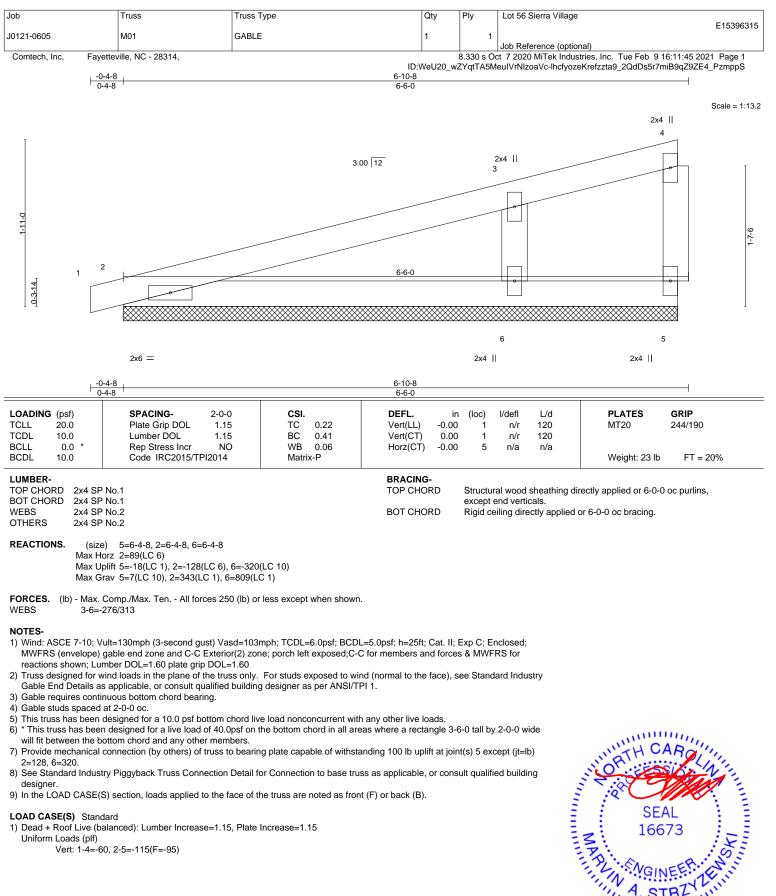


Structural wood sheathing directly applied or 2-1-11 oc purlins.

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

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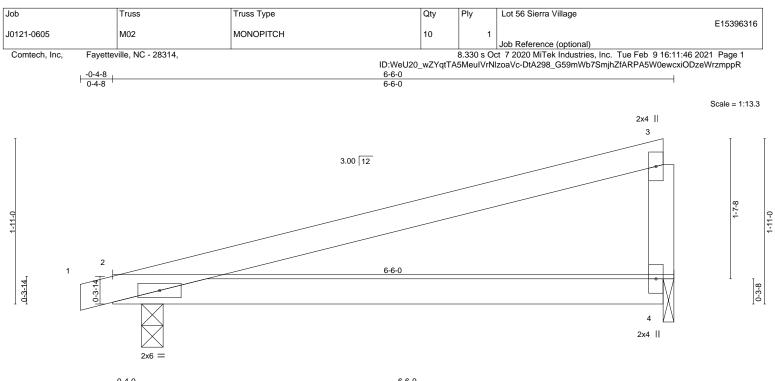
Vert: 1-4=-60, 2-5=-115(F=-95)

February 10,2021

STR



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		0-4-0		T		6-2-0					T.	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.08	2-4	>946	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.16	2-4	>473	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matrix	κ-P	Wind(LL)	0.19	2-4	>385	240	Weight: 22 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x4 SP No.1BOT CHORD2x4 SP No.1WEBS2x4 SP No.2

REACTIONS. (size) 4=0-1-8, 2=0-3-0

Max Horz 2=62(LC 6) Max Uplift 4=-128(LC 6), 2=-136(LC 6)

Max Grav 4=247(LC 1), 2=280(LC 1)

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

NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 40.0psf 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.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=128, 2=136.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



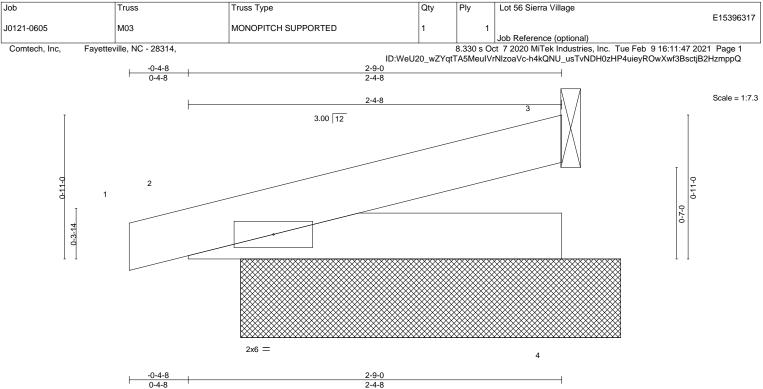
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

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		0-4-8				2-4-0						
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.00	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-P	Wind(LL)	0.00	2	****	240	Weight: 8 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1

OT CHORD 2x4 SP No.1

REACTIONS. All bearings 2-5-0.

(lb) - Max Horz 2=36(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 3, 2

Max Grav All reactions 250 lb or less at joint(s) 3, 3, 2, 4

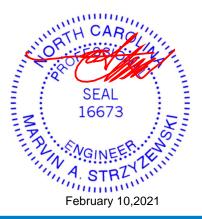
FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone;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. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

3) Gable studs spaced at 2-0-0 oc.

- 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 40.0psf 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) 3, 2.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

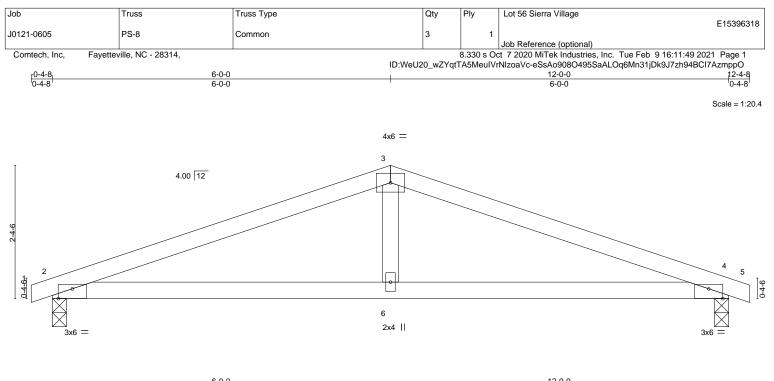


Structural wood sheathing directly applied or 2-4-8 oc purlins.

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

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LOADING (psf) ICLL 20.0 ICDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15	CSI. TC 0.39 BC 0.31	Vert(LL) 0.10 Vert(CT) -0.07	2-6 >999 240	PLATES GRIP MT20 244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.06 Matrix-S	Horz(CT) -0.01	4 n/a n/a	Weight: 41 lb FT = 20%
LUMBER- TOP CHORD 2x4 SP BOT CHORD 2x4 SP WEBS 2x4 SP	No.1		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing di Rigid ceiling directly applied (rectly applied or 5-10-12 oc purlins. or 5-10-11 oc bracing.

Max Grav 2=500(LC 1), 4=500(LC 1)

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

 TOP CHORD
 2-3=-873/1166, 3-4=-873/1166

 BOT CHORD
 2-6=-1022/771, 4-6=-1022/771

WEBS 3-6=-430/283

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 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) 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 40.0psf 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=236, 4=236.

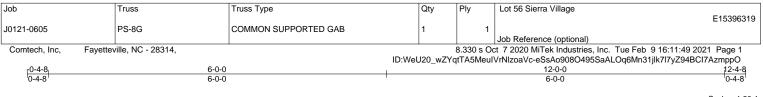
 See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



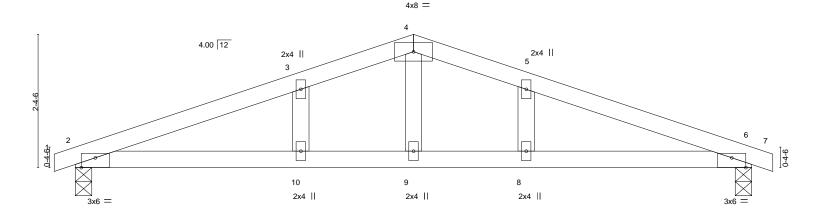
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Edenton, NC 27932



Scale = 1:20.4



LOADING (psf) FCLL 20.0 FCDL 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15	CSI. TC 0.42 BC 0.41	Vert(LL) 0.11 Vert(CT) -0.09	2-10 >999	240 240	PLATES MT20	GRIP 244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.07 Matrix-S	Horz(CT) -0.02	2 6 n/a	n/a	Weight: 44 lb	FT = 20%
LUMBER- TOP CHORD 2x4 SF BOT CHORD 2x4 SF OTHERS 2x4 SF	P No.1	BRACING- TOP CHORD BOT CHORD		0	ectly applied or 6-0-0 or 5-0-8 oc bracing.	oc purlins.	
	e) 2=0-3-8, 6=0-3-8 lorz 2=48(LC 14) Jplift 2=-325(LC 6), 6=-325(LC 7) irav 2=500(LC 1), 6=500(LC 1)						

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown TOP CHORD 2-3=-880/1434, 3-4=-829/1483, 4-5=-829/1483, 5-6=-880/1434

BOT CHORD 2-10=-1259/786, 9-10=-1259/786, 8-9=-1259/786, 6-8=-1259/786 WEBS 4-9=-559/291

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) Gable studs spaced at 2-0-0 oc.

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 40.0psf 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=325, 6=325.

8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



TRENGINEERING BY A MITEK Atfiliate 818 Soundside Road

Edenton, NC 27932

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