

RE: J0423-1893 Wellco/Lot 539 Overhills Creek/Harnett

Site Information:

Customer: Project Name: J0423-1893 Lot/Block: Address: City:

Model: Subdivision: State:

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 8.4 Wind Speed: 130 mph Floor Load: N/A psf

This package includes 16 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	155623259	A1	12/8/2022
2	155623260	B1	12/8/2022
3	155623261	B1GE	12/8/2022
4	155623262	C1	12/8/2022
5	155623263	C1GE	12/8/2022
6	155623264	C2	12/8/2022
7	155623265	C3	12/8/2022
8	155623266	C4	12/8/2022
9	155623267	D1	12/8/2022
10	155623268	D1GE	12/8/2022
11	155623269	D2	12/8/2022
12	155623270	D3	12/8/2022
13	155623271	M1GE	12/8/2022
14	155623272	PB1	12/8/2022
15	155623273	PB1GE	12/8/2022
16	155623274	PB2	12/8/2022

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: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2023

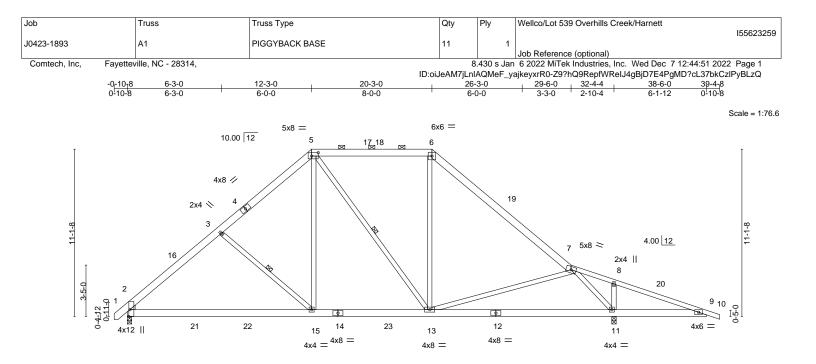
North Carolina COA: C-0844

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.



Gilbert, Eric

Trenco 818 Soundside Rd Edenton, NC 27932



	12-3-0	20-3-0		32-4-4	38-6-0
Plate Offsets (X,Y)	12-3-0 [2:0-5-8,Edge], [5:0-5-4,0-2-12]	8-0-0		12-1-4	6-1-12
	[2.0-3-6,Edge], [3.0-3-4,0-2-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ir	i (loc) l/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.48	Vert(LL) -0.18	2-15 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.57	Vert(CT) -0.34		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.49	Horz(CT) 0.03		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) -0.03	11-13 >999 240	Weight: 277 lb FT = 20%
LUMBER-			BRACING-		
	P No.1 *Except*		TOP CHORD	Structural wood sheathing dir	ectly applied or 5-8-7 oc purlins, except
	2x4 SP No.1			2-0-0 oc purlins (6-0-0 max.):	
BOT CHORD 2x6 S	P No.1		BOT CHORD		or 10-0-0 oc bracing, Except:
WEBS 2x4 S	P No.2			6-0-0 oc bracing: 9-11.	
WEDGE			WEBS	1 Row at midpt 3	-15, 5-13
Left: 2x4 SP No.2					
REACTIONS. (siz					
(ze) 2=0-3-8, 11=0-3-8 Horz 2=-266(LC 10)				
	Jplift 2=-56(LC 12), 11=-163(LC 9)				
	Grav 2=1385(LC 19), 11=1889(LC 1)				
FORCES. (lb) - Max	. Comp./Max. Ten All forces 250 (lb) or	less except when shown.			
	-1607/367, 3-5=-1395/379, 5-6=-947/35	1, 6-7=-1293/279, 7-8=-736/73	86,		
	-809/773				
	=-130/1312, 13-15=0/1068, 11-13=-10/8				
	=-419/269, 5-15=-60/710, 5-13=-255/153	3, 6-13=0/354, 7-13=-213/277,			
7-11	=-1853/786, 8-11=-292/162				

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 12-3-0, Exterior(2) 12-3-0 to 16-7-13, Interior(1) 16-7-13 to 20-3-0, Exterior(2) 20-3-0 to 24-7-13, Interior(1) 24-7-13 to 39-4-8 zone; cantilever right exposed ;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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide

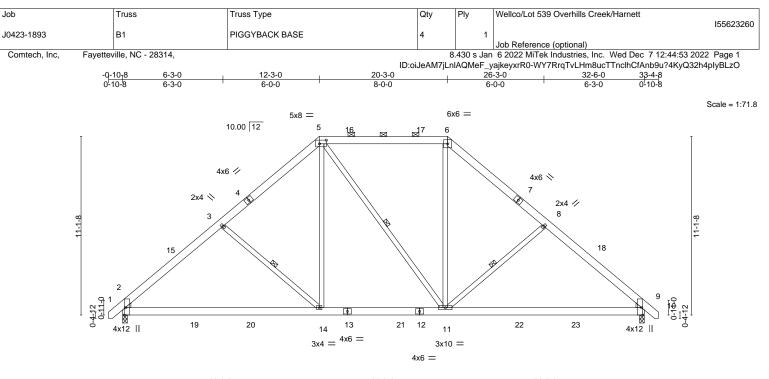
will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 2 and 163 lb uplift at joint 11.

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



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 Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





	12-3-0		20-3-0		32-6-0		
	12-3-0		8-0-0		12-3-0	I	
Plate Offsets (X,Y)	[2:0-5-8,Edge], [5:0-5-4,0-2-12], [9:0-5	-8,Edge]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.32	Vert(LL) -(0.20 9-11	>999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.60	Vert(CT) -(0.37 9-11	>999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(CT)	0.03 9	n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.03 2-14	>999 240	Weight: 249 lb	FT = 20%
		1				1	
LUMBER-			BRACING-				

TOP CHORD

BOT CHORD

WEBS

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

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

REACTIONS. (size) 2=0-3-8, 9=0-3-8 Max Horz 2=261(LC 11)

Max Uplift 2=-55(LC 12), 9=-55(LC 13) Max Grav 2=1458(LC 19), 9=1438(LC 20)

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

- TOP CHORD 2-3=-1717/434, 3-5=-1507/447, 5-6=-1057/426, 6-8=-1477/447, 8-9=-1687/434
- BOT CHORD 2-14=-206/1383, 11-14=-45/1142, 9-11=-200/1215
- 3-14=-412/278, 5-14=-60/665, 6-11=-64/575, 8-11=-410/278 WEBS

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 12-3-0, Exterior(2) 12-3-0 to 18-5-11, Interior(1) 18-5-11 to 20-3-0, Exterior(2) 20-3-0 to 26-5-2, Interior(1) 26-5-2 to 33-3-1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

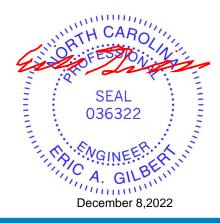
Provide adequate drainage to prevent water ponding.

4) 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 5) 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 55 lb uplift at joint 2 and 55 lb uplift at joint 9.

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



818 Soundside Road Edenton, NC 27932

Structural wood sheathing directly applied or 5-7-7 oc purlins, except

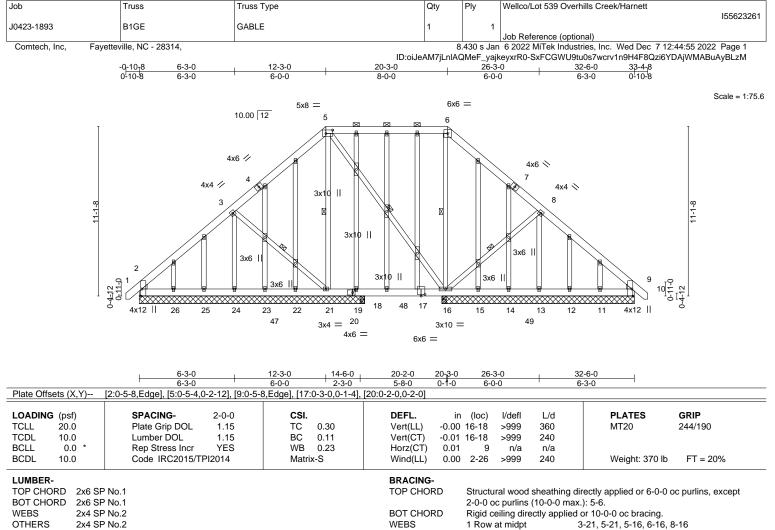
3-14, 5-11, 8-11

2-0-0 oc purlins (6-0-0 max.): 5-6.

1 Row at midpt

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



WEDGE

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

REACTIONS. All bearings 14-9-8 except (jt=length) 16=12-7-8, 16=12-7-8, 13=12-7-8, 9=12-7-8, 15=12-7-8, 14=12-7-8, 12=12-7-8, 11=12-7-8, 18=0-3-8.

(lb) - Max Horz 2=-261(LC 10)

- Max Uplift All uplift 100 lb or less at joint(s) 2, 9, 26, 15, 11 except 21=-165(LC 12), 16=-150(LC 13), 19=-265(LC 18)
- Max Grav All reactions 250 lb or less at joint(s) 24, 13, 22, 23, 25, 26, 15, 14, 12, 11 except 2=417(LC 23), 21=579(LC 19), 16=820(LC 1), 16=820(LC 1), 9=369(LC 24), 18=552(LC 18)
- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- TOP CHORD 2-3=-484/177, 8-9=-412/130
- BOT CHORD 2-26=-167/339, 25-26=-167/339, 24-25=-167/339, 23-24=-167/339, 22-23=-167/339, 21-22=-167/339, 19-21=-236/265, 18-19=-236/265, 16-18=-236/265
- WEBS 3-21=-430/328, 5-21=-294/88, 6-16=-442/165, 8-16=-434/331

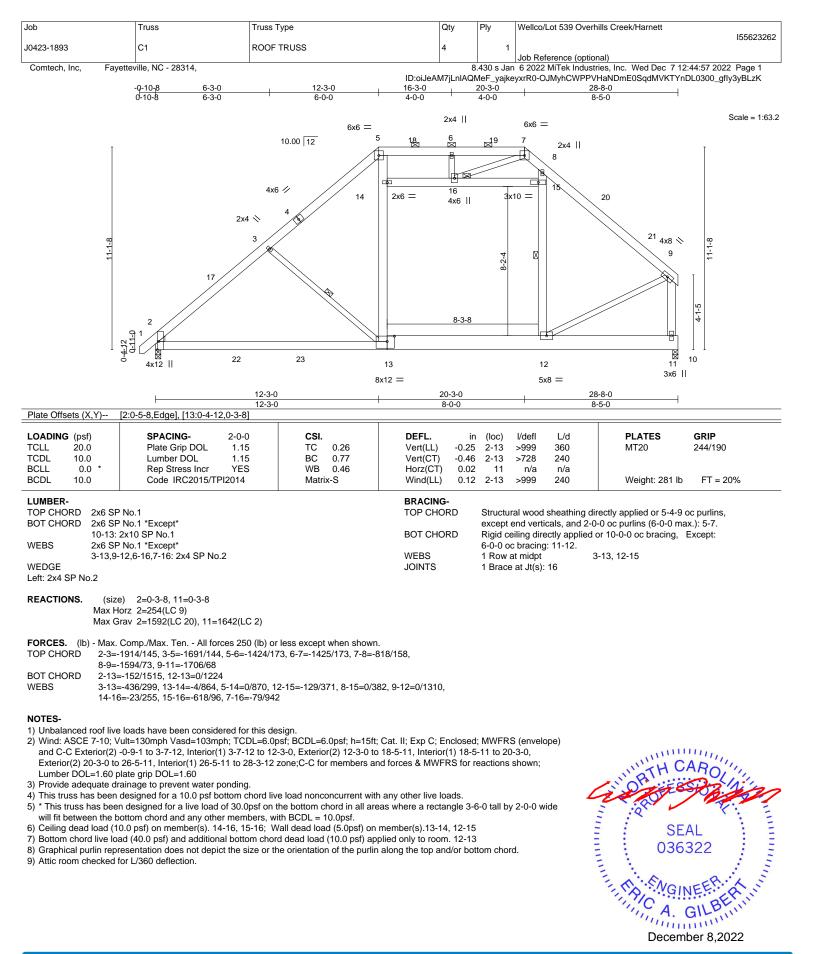
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) -0-9-1 to 3-7-12, Exterior(2) 3-7-12 to 12-3-0, Corner(3) 12-3-0 to 16-7-13, Exterior(2) 16-7-13 to 20-3-0, Corner(3) 20-3-0 to 24-7-13, Exterior(2) 24-7-13 to 33-3-1 zone; 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9, 26, 15, 11 except (jt=lb) 21=165, 16=150, 19=265.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

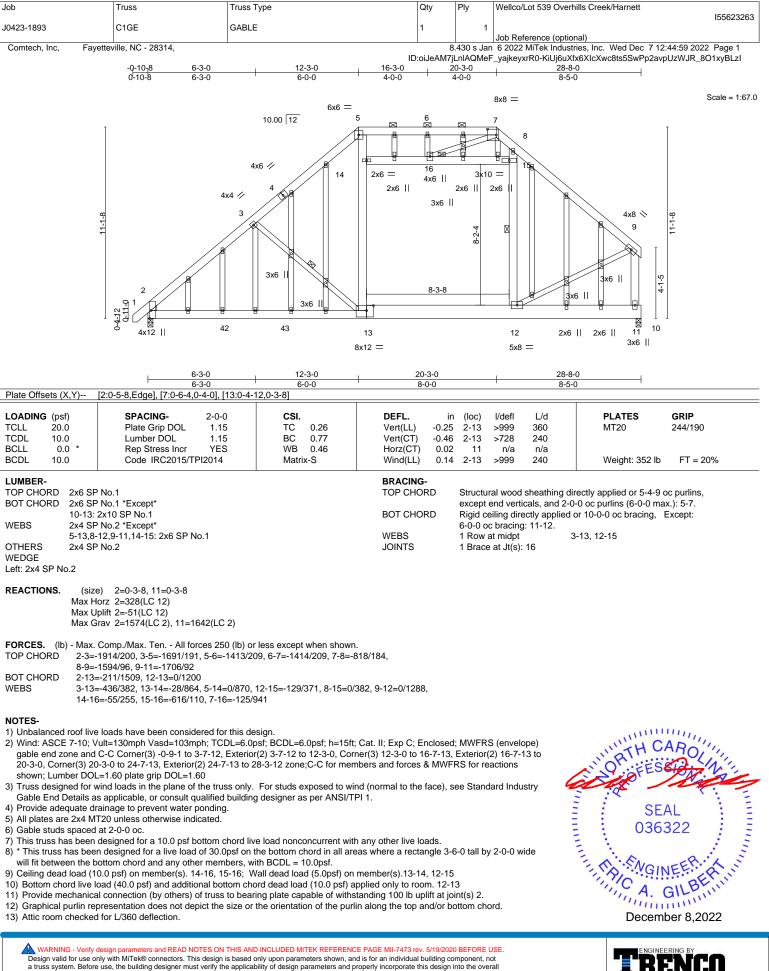






WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 system. See MSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

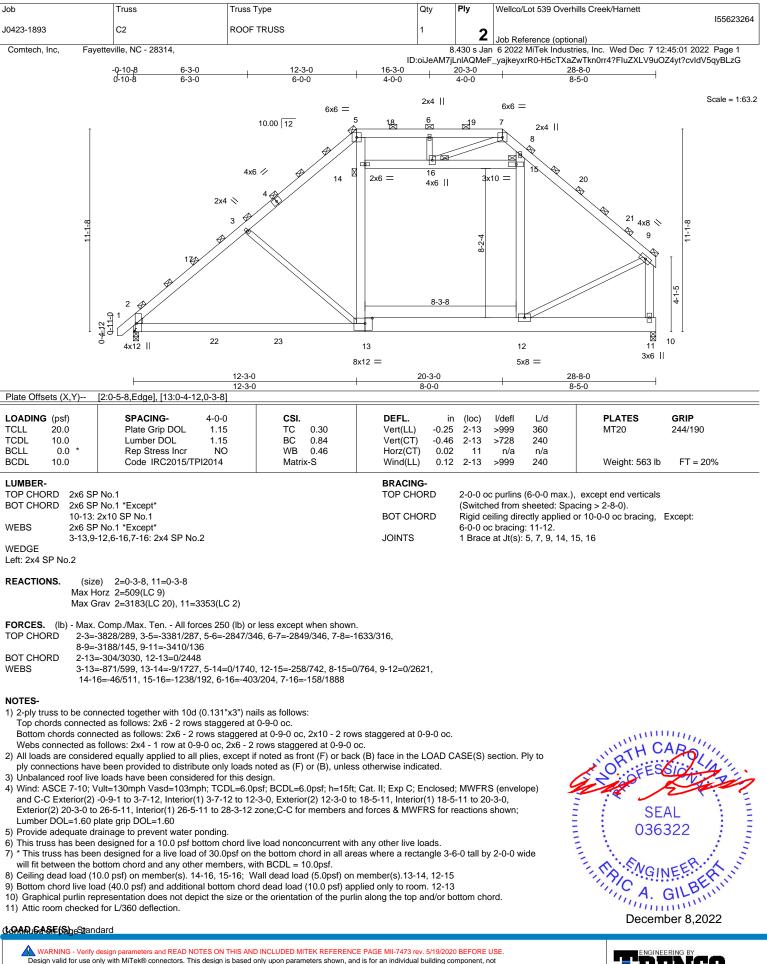




WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 sand truss systems, see **ANSI/TPH (Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Edenton, NC 27932



ARXING - Venity design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-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/ITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

818 Soundside Road Edenton, NC 27932

[Job	Truss	Truss Type	Qty	Ply	Wellco/Lot 539 Overhills Creek/Harnett
						155623264
	J0423-1893	C2	ROOF TRUSS	1	2	
					L	Job Reference (optional)
	Comtech, Inc, Fayettev	rille, NC - 28314,		8	.430 s Jan	6 2022 MiTek Industries, Inc. Wed Dec 7 12:45:01 2022 Page 2
			ID:	oiJeAM7jl:	nIAQMeF	_yajkeyxrR0-H5cTXaZwTkn0rr4?FluZXLV9uOZ4yt?cvIdV5qyBLzG

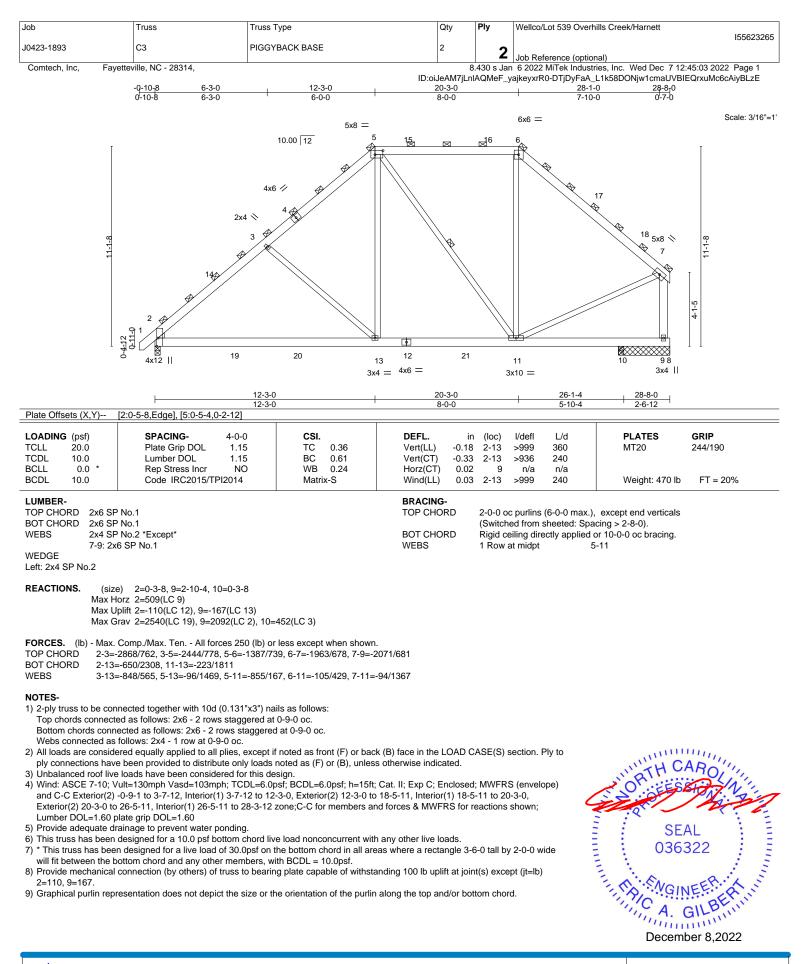
LOAD CASE(S) Standard

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

Vert: 1-5=120, 5-7=-120, 7-9=-120, 2-13=-40, 12-13=-80, 11-12=-40, 10-11=-160(F=-120), 14-15=-40 Drag: 13-14=-20, 12-15=-20

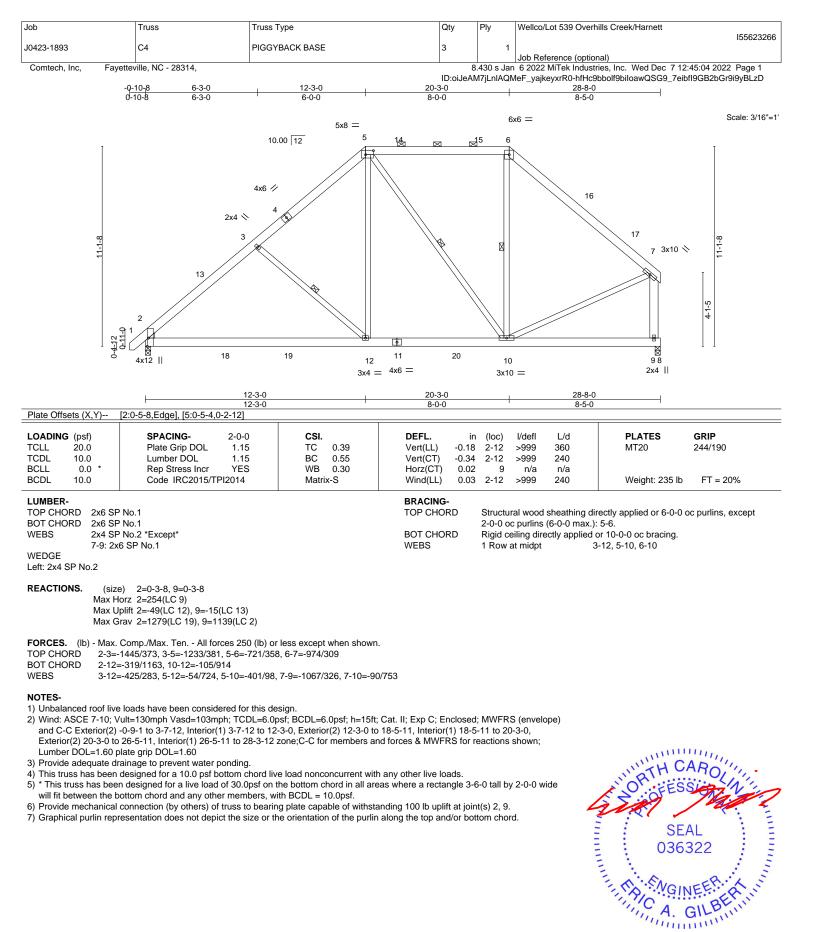
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 **ANSUTPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





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 system. See MSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

818 Soundside Road Edenton, NC 27932



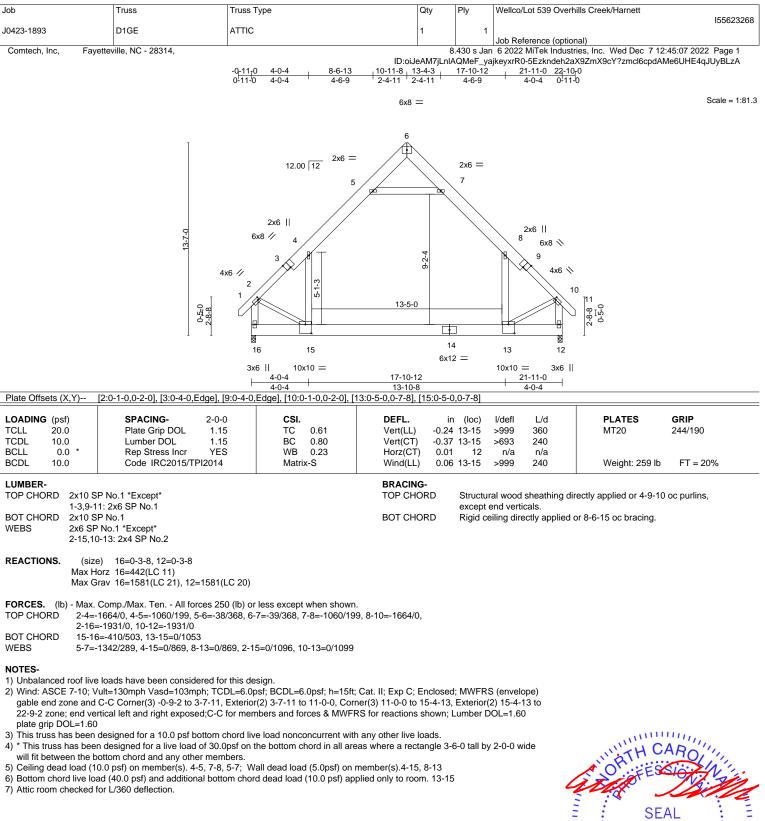
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Wellco/Lot 539 Over	nills Creek/Harnett	
J0423-1893	D1	ATTIC	5	1			155623267
	retteville, NC - 28314,				Job Reference (option 6 2022 MiTek Indust		12:45:06 2022 Page 1
	,	-0 <mark>-11_T0 4-0-4 8-6-13</mark> 0-11-0 4-0-4 4-6-9			ajkeyxrR0-d2PMaHd2ł	HGPlycyy2rUkEPCxsP _r 0	
			6x8 =				Scale = 1:81.3
			6				
	Ī	2x6 =					
		12.00 12 5		2x6 =			
		18		19)		
		2x6		//	2x6		
	13-7-0	6x8 // 4 17			^{2x6} ⁸ 20 6x8 \\		
		x6 // 3	9-2-4		9 4x6 \\		
						0	
	0-5:0 2-8-8		13-5-0			11 0-3 8-1-5-0 -5-0	
	50]			
		⊠ 16 15	14 6x12		13 12		
		3x6 10x10 =	17-10-12		10x10 = 3x6 21-11-0		
Plate Offsets (X,Y)	[2:0-1-0,0-2-0], [3:0-4-0,Edge],	<u>4-0-4</u> 9:0-4-0,Edge], [10:0-1-0,0-2-0], [13-10-8 13:0-5-0,0-7-8], [15:0-5-0	,0-7-8]	4-0-4		
LOADING (psf)	SPACING- 2-0-			(loc)	l/defl L/d	PLATES	GRIP
TCLL 20.0 TCDL 10.0 PCLL 0.0 *	Plate Grip DOL 1.1 Lumber DOL 1.1	5 BC 0.80	Vert(CT) -0.37	13-15 13-15	>999 360 >693 240	MT20	244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	S WB 0.23 Matrix-S	Horz(CT) 0.01 Wind(LL) 0.05	12 13-15	n/a n/a >999 240	Weight: 259 I	p FT = 20%
LUMBER- TOP CHORD 2x10 S	P No.1 *Except*		BRACING- TOP CHORD	Structu	ral wood sheathing di	rectly applied or 1-9-1	10 oc purlins
	1: 2x6 SP No.1		BOT CHORD	except	end verticals.		io oc pullins,
WEBS 2x6 SP	9 No.1 *Except* 0-13: 2x4 SP No.2		DOT CHOILD	Ngiù Ce	ening directly applied		
	e) 16=0-3-8, 12=0-3-8						
Max H	lorz 16=353(LC 11) irav 16=1585(LC 21), 12=1585(_C 20)					
		0 (lb) or less except when shown					
TOP CHORD 2-4=-		/368, 6-7=-20/368, 7-8=-1052/16					
BOT CHORD 15-16	6=-318/414, 13-15=0/1022	69, 2-15=0/1057, 10-13=0/1059					
NOTES-	, ,						
	e loads have been considered fo /ult=130mph Vasd=103mph; TC	r this design. DL=6.0psf; BCDL=6.0psf; h=15ft;	; Cat. II; Exp C; Enclosed	; MWFR	S (envelope)		
		1 to 11-0-0, Exterior(2) 11-0-0 to and forces & MWFRS for reactio					
DOL=1.60 3) This truss has been	designed for a 10.0 psf bottom	hord live load nonconcurrent with	h any other live loads.	·			11111
	n designed for a live load of 30.0 oottom chord and any other mem	psf on the bottom chord in all are bers.	eas where a rectangle 3-	6-0 tall by	/ 2-0-0 wide	"TH C	CARO
		5-7; Wall dead load (5.0psf) on to m chord dead load (10.0 psf) ap				FE	No. 1
7) Attic room checked t	for L/360 deflection.				4	n ng	n the second sec
						SI	EAL
						- U3t	5322
						E. A. ENO	NEER X
						SI 030 NG NG	CIL BERTIN
							GIL
						Decer	nber 8,2022

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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY EREPACED A MITek Affiliate 818 Soundside Road Edenton, NC 27932





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



Job	Truss	Truss Type	Qty	Ply	Wellco/Lot 539 Over	hills Creek/Harnett	
J0423-1893	D2	ATTIC	2	1			155623269
	etteville, NC - 28314,			.430 s Jar	Job Reference (option 6 2022 MiTek Indust	nal) ries, Inc. Wed Dec 71	2:45:09 2022 Page 1
		4-0-4 8-6-13 4-0-4 4-6-9	ID:oiJeAM7 10-11-8 13-4-3 1			JfxaBntp3hXjz1Rs1qS6	
			6x8 =				Scale = 1:82.4
			-				
	Ţ	o	5				
		12.00 12 2x6 =		2x6 =			
		4		6 \ 19			
		18 2x6					
	13-7-0	6x8 // 3			2x6 720 6x8 ℕ		
		8 1/2 2	9-2-4		8 4x6 \\		
					440 (1		
	8		13-5-0			10 8-8-14- -0	
	-8-8 -8-8					2-8	
		16 ¹⁵ 14	13 6x12 =	=	12 11		
		$10x10 = 3x6 _{4-0-4}$	17-10-12	1	0x10 = 3x6		
Plate Offsets (X,Y)	[2:0-4-0,Edge], [8:0-4-0,Edge], [<u>4-0-4</u> 9:0-1-0,0-2-0], [12:0-5-0,0-7-8], [1	13-10-8 4:0-5-0,0-7-8]		4-0-4		
LOADING (psf)	SPACING- 2-0-0			n (loc)	l/defl L/d	PLATES	GRIP
TCLL 20.0 TCDL 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15	5 BC 0.80	Vert(CT) -0.37	12-14 12-14	>999 360 >696 240	MT20	244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014	S WB 0.25 Matrix-S	Horz(CT) 0.01 Wind(LL) 0.05	11 12-14	n/a n/a >999 240	Weight: 257 lb	FT = 20%
LUMBER-			BRACING-	01	-1		F a a murilla a
	0: 2x6 SP No.1		TOP CHORD	except e	end verticals.	rectly applied or 4-9-1	
	No.1 *Except*		BOT CHORD		bracing: 12-14.	or 10-0-0 oc bracing,	Except:
	12: 2x4 SP No.2						
Max He	e) 11=0-3-8, 15=0-3-8 orz 15=320(LC 11) rav 11=1574(LC 20), 15=1551(LC 21)					
()		0 (lb) or less except when shown. /362, 5-6=-21/366, 6-7=-1040/158					
1-15=	-1900/0, 9-11=-1894/0 5=-305/349, 12-14=0/1009						
	1329/213, 3-14=0/833, 7-12=0/8	363, 1-14=0/1102, 9-12=0/1042					
NOTES- 1) Unbalanced roof live	loads have been considered fo	r this design.					
		DL=6.0psf; BCDL=6.0psf; h=15ft; to 11-0-0, Exterior(2) 11-0-0 to 1					
		MWFRS for reactions shown; Luchord live load nonconcurrent with		rip DOL=	1.60		
	n designed for a live load of 30.0 ottom chord and any other mem	opsf on the bottom chord in all are bers.	as where a rectangle 3-	6-0 tall by	2-0-0 wide	In the C	APO
6) Bottom chord live loa	ad (40.0 psf) and additional botte	4-6; Wall dead load (5.0psf) on r om chord dead load (10.0 psf) app		Ļ		N.OR. EES	Sto Date
7) Attic room checked f	or L/360 deflection.				4	200	They
						SE	AL
							322
							a
						S. S.NGI	NEELER
						A.	GILBLUU
							nber 8.2022

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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

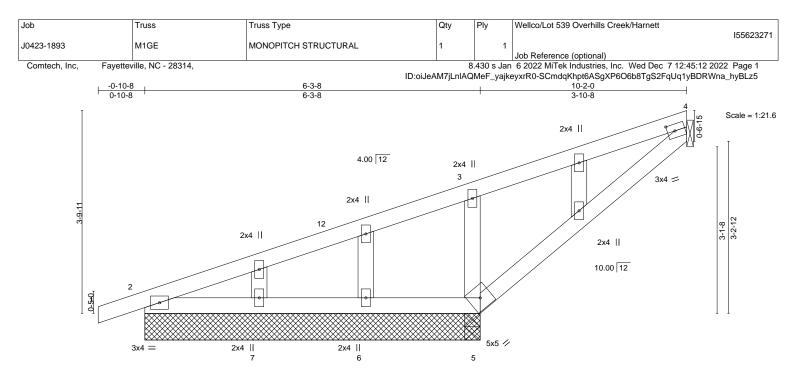


Job	Truss	Truss Type	Qty	Ply	Wellco/Lot 539 Overhi	lls Creek/Harnott	
J0d J0423-1893	D3	ATTIC	3	Piy 1	Welloo/Lot 339 Overni		155623270
		ATTIC			Job Reference (option		0.45.44.0000 D
Comtech, Inc, Faye	etteville, NC - 28314,	4-0-4 8-6-13 4-0-4 4-6-9	ID:oiJeAM7jLr		n 6 2022 MiTek Industri yajkeyxrR00CFd_hB6 21-11-0 4-0-4		
			6x8 =				Scale = 1:82.4
	Ī		5				
		12.00 12 2x6 =		2x6 =			
				6			
		18 2x6		19			
	13-7-0	6x8 1/ 3			²⁰ 2x6 7 6x8 \\		
	e e	2	9-2-4		8 5x8 \\		
		5x8 /			9		
			13-5-0			ω	
	2-8-8]		2-8-8	
		⊠ 16 ¹⁵ ¹⁴	13		12 11 10		
		10x10 = 3x6 4-0-4 4-0-	6x12	2 =	10x10 = 3x6		
		4-0-4	17-10-12 13-10-8		21-11-0		
		[12:0-5-0,0-7-8], [14:0-5-0,0-7-8]		(1)		DI 4750	
LOADING (psf) TCLL 20.0	SPACING-2-0Plate Grip DOL1.7	5 TC 0.60	Vert(LL) -0.23	(loc)	l/defl L/d >999 360	PLATES MT20	GRIP 244/190
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.7 Rep Stress Incr YE	S WB 0.25	Horz(CT) 0.01		>700 240 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	4 Matrix-S	BRACING-	12-14	>999 240	Weight: 254 lk	5 FT = 20%
TOP CHORD 2x10 SI	P No.1 *Except* : 2x6 SP No.1		TOP CHORD		ral wood sheathing dire end verticals.	ectly applied or 4-10-	-12 oc purlins,
BOT CHORD 2x10 SI	P No.1		BOT CHORD	Rigid ce	eling directly applied o c bracing: 12-14.	r 10-0-0 oc bracing,	Except:
	No.1 *Except* 12: 2x4 SP No.2			0-0-0 0	c bracing. 12-14.		
(e) 15=0-3-8, 11=0-3-8						
	orz 15=-330(LC 8) rav 15=1544(LC 21), 11=1544	(LC 20)					
		50 (lb) or less except when show					
1-15=	-1885/0, 9-11=-1886/0	1/359, 5-6=-21/359, 6-7=-1039/16	54, 7-9=-1603/0,				
	5=-317/359, 12-14=0/991 1312/202, 3-14=0/827, 7-12=0	/827, 1-14=0/1096, 9-12=0/1097					
NOTES-	landa kara kara ana islama di	and the state of the state					
2) Wind: ASCE 7-10; V	· · · · · ·	CDL=6.0psf; BCDL=6.0psf; h=15f	, , , ,	,	· · · ·		
vertical left and right	exposed;C-C for members and	9 to 11-0-0, Exterior(2) 11-0-0 to 1 forces & MWFRS for reactions s	hown; Lumber DOL=1.60				
4) * This truss has been		chord live load nonconcurrent wit Opsf on the bottom chord in all ar		6-0 tall by	/ 2-0-0 wide	, unun	111111
5) Ceiling dead load (10	0.0 psf) on member(s). 3-4, 6-7	, 4-6; Wall dead load (5.0psf) on tom chord dead load (10.0 psf) ag				IN RTH C	AROLI
7) Attic room checked f		tom choru dead load (10.0 psi) a		•	6	FE	Hist
						036	AL 5322
						TA SNG	NEER
						MIC A	GILBE
						1111	THURS
						Decer	nber 8,2022

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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road Edenton, NC 27932



				<u>6-3-8</u> 6-3-8				+		<u>10-2-0</u> 3-10-8		
Plate Offsets	s (X,Y) [4	4:0-1-11,0-1-8]				1					1	
LOADING (p	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	0.29	Vert(LL)	-0.01	4-5	>999	360	MT20	244/190
TCDL 10	0.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10	0.0	Code IRC2015/TF	PI2014	Matrix	-S	Wind(LL)	0.00	2-7	>999	240	Weight: 42 lb	FT = 20%

LUMBER-

 TOP CHORD
 2x4 SP No.1

 BOT CHORD
 2x4 SP No.1

 WEBS
 2x4 SP No.2

 OTHERS
 2x4 SP No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 4-5.

REACTIONS. All bearings 6-3-8 except (jt=length) 4=Mechanical.

(lb) - Max Horz 2=177(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 4, 2, 7 except 5=-174(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 4, 2, 6, 7 except 5=440(LC 1), 5=440(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-5=-353/236

NOTES-

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

2) 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 30.0psf 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.

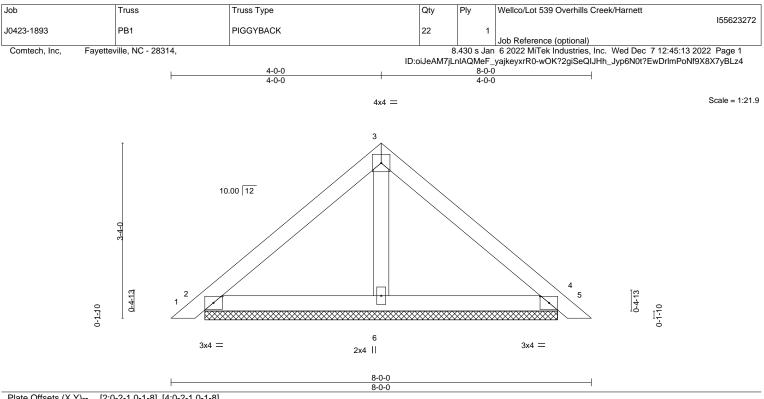
6) Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 7 except (jt=lb) 5=174.



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





OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc) l/defl	L/d	PLATES GRIP
CLL 20.0	Plate Grip DOL 1.15	TC 0.17	Vert(LL) 0.00	5 n/r	120	MT20 244/190
CDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) 0.01	5 n/r	120	
CLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.00	4 n/a	n/a	
CDL 10.0	Code IRC2015/TPI2014	Matrix-P	. ,			Weight: 29 lb FT = 20%

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 2=6-8-9, 4=6-8-9, 6=6-8-9

Max Horz 2=-75(LC 10) Max Uplift 2=-30(LC 12), 4=-37(LC 13)

Max Grav 2=182(LC 1), 4=182(LC 1), 6=223(LC 1)

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 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) Gable requires continuous bottom chord bearing.

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 30.0psf 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) 2, 4.

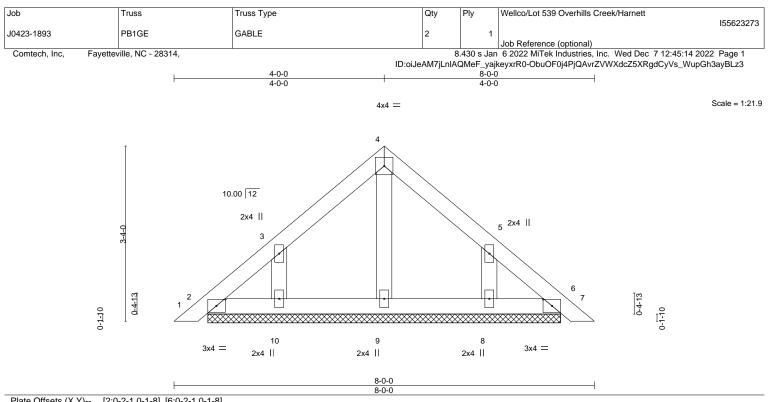
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

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

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 Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (lo	c) l/defl L/d	PLATES GRIP
CLL 20.0	Plate Grip DOL 1.15	TC 0.04	Vert(LL) -0.00	6 n/r 120	MT20 244/190
CDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) 0.00	6 n/r 120	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00	6 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	. ,		Weight: 32 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 OTHERS 2x4 SP No.2 TOP CHORD BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 6-8-9.

Max Horz 2=94(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=-121(LC 12), 8=-120(LC 13) Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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) 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.

- Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.

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

7) * This truss has been designed for a live load of 30.0psf 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.

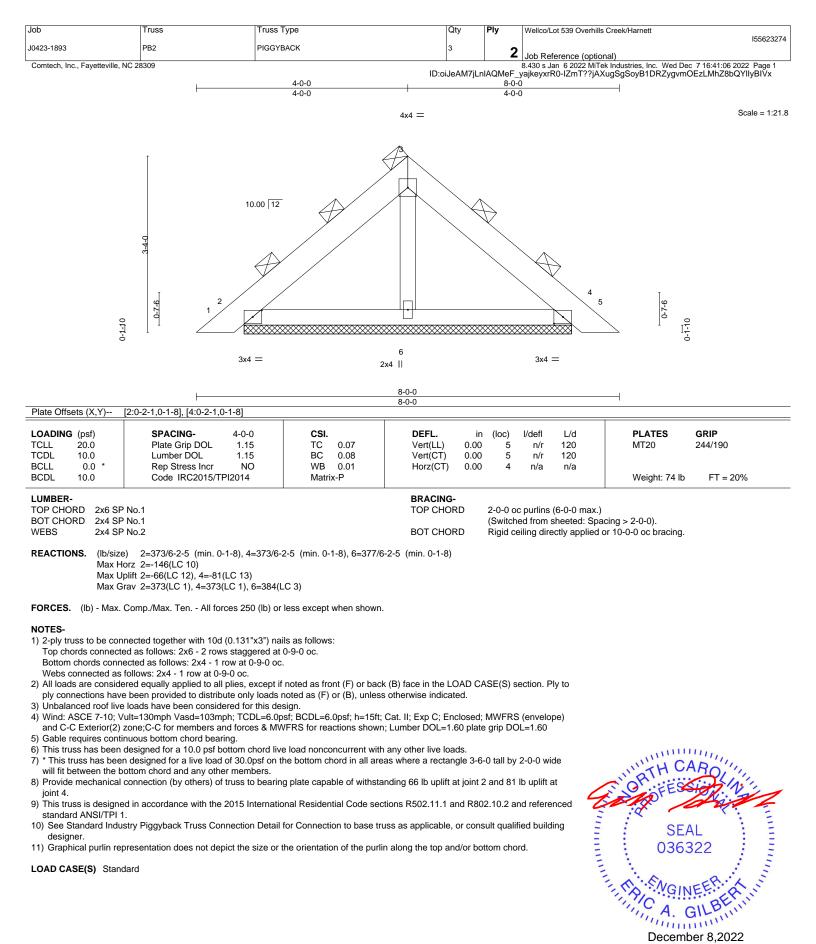
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 10=121, 8=120.

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





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 Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY A MITEK Affiliate 818 Soundside Road

Edenton, NC 27932

