

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0425-1921 Wellco/102 Hidden Lakes North/Harnett

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I72769507 thru I72769519

My license renewal date for the state of North Carolina is December 31, 2025.

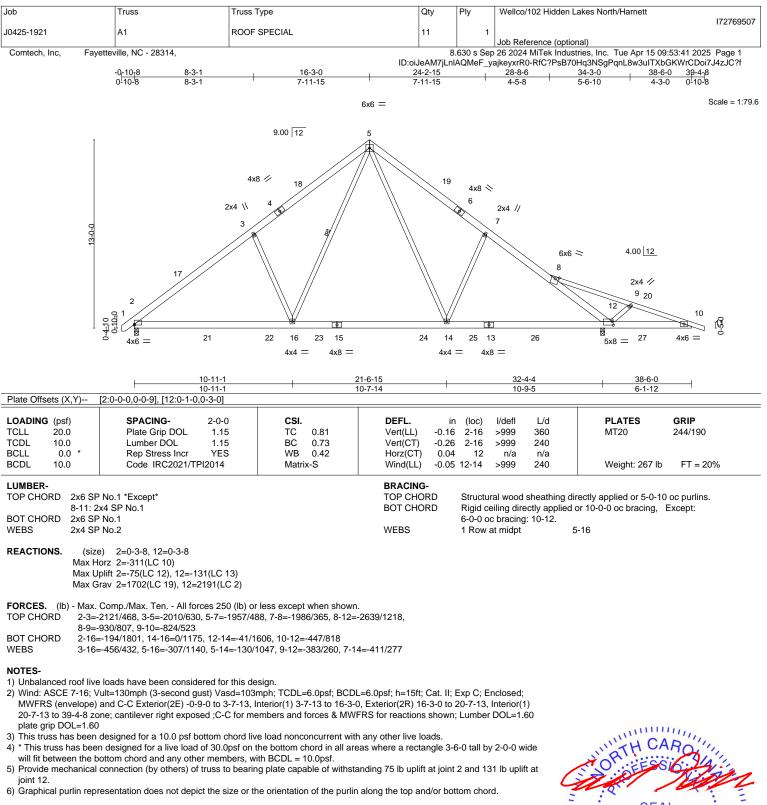
North Carolina COA: C-0844



April 16,2025

Gilbert, Eric

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.





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Job	Truss	russ Type	Qty Ply Wellco/102 Hidden Lakes North/Harnett
J0425-1921	B1 F	NK	4 1 1
Comtech, Inc, Fay	etteville, NC - 28314,		Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 15 09:53:42 2025 Page 1
· · · ·	-0 <u>-10<sub>1</sub>8 8-3-1</u>	16-3-0	ID:oiJeAM7jLnIAQMeF_yajkeyxrR0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 24-2-1532-6-033-4-8
	0-10-8 8-3-1	7-11-15	7-11-15 8-3-1 0-10-8
			5x5 = Scale = 1:76
			_
	Ī	9.00 12	5
		4x6 🕢	
			4x6 🗞
		2x4 \\ 4	
	0-0	3	
	13-0-0		
	20		21
		$\langle \langle \rangle \rangle$	
	2 91		8_0
		¥.	
	4x4 = 14	15 13 16	12 11 17 10 18 19 $4x4 = 6$
		3x4 =	4x6 = 4x6 = 3x4 =
	<u> </u>		<u>21-6-15</u> <u>32-6-0</u> 10-7-14 <u>10-11-1</u>
Plate Offsets (X,Y)	[2:0-0-0,0-0-9], [8:0-0-0,0-0-9]	1	
LOADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL 20.0 TCDL 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.29 BC 0.62	Vert(LL) -0.16 2-13 >999 360 MT20 244/190 Vert(CT) -0.27 2-13 >999 240
BCLL 0.0 *	Rep Stress Incr YES	WB 0.50	Horz(CT) 0.04 8 n/a n/a
BCDL 10.0	Code IRC2021/TPI2014	Matrix-S	Wind(LL)         0.05         2-13         >999         240         Weight: 236 lb         FT = 20%
LUMBER- TOP CHORD 2x6 SP	PNo 1		BRACING- TOP CHORD Structural wood sheathing directly applied or 5-0-5 oc purlins.
BOT CHORD 2x6 SP	' No.1		BOT CHORD Rigid ceiling directly applied or 10-0 oc bracing.
WEBS 2x4 SP	9 No.2		
	e) 2=0-3-8, 8=0-3-8		
	orz 2=-306(LC 10) plift 2=-74(LC 12), 8=-74(LC 13)		
	rav 2=1717(LC 19), 8=1717(LC 20	)	
FORCES. (Ib) - Max.	Comp./Max. Ten All forces 250 (	b) or less except when shown	
	2141/266, 3-5=-2032/386, 5-7=-20	,	
	118/1814, 10-13=0/1189, 8-10=-6 460/301, 5-13=-156/1133, 5-10=-		
NOTES-			
1) Unbalanced roof live	e loads have been considered for th		
			L=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; 0, Exterior(2R) 16-3-0 to 22-5-11, Interior(1)
22-5-11 to 33-3-1 zc	ne;C-C for members and forces &	MWFRS for reactions shown;	Lumber DOL=1.60 plate grip DOL=1.60
	designed for a 10.0 psf bottom cho n designed for a live load of 30.0ps		n any other live loads. eas where a rectangle 3-6-0 tall by 2-0-0 wide

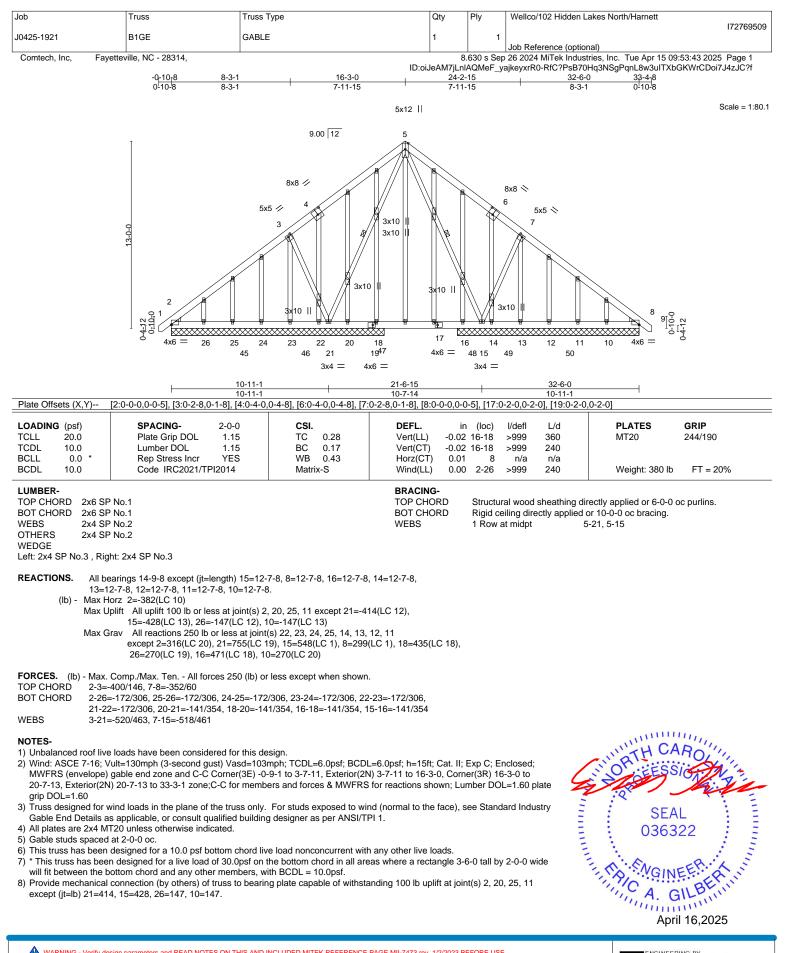
4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 2 and 74 lb uplift at joint 8.

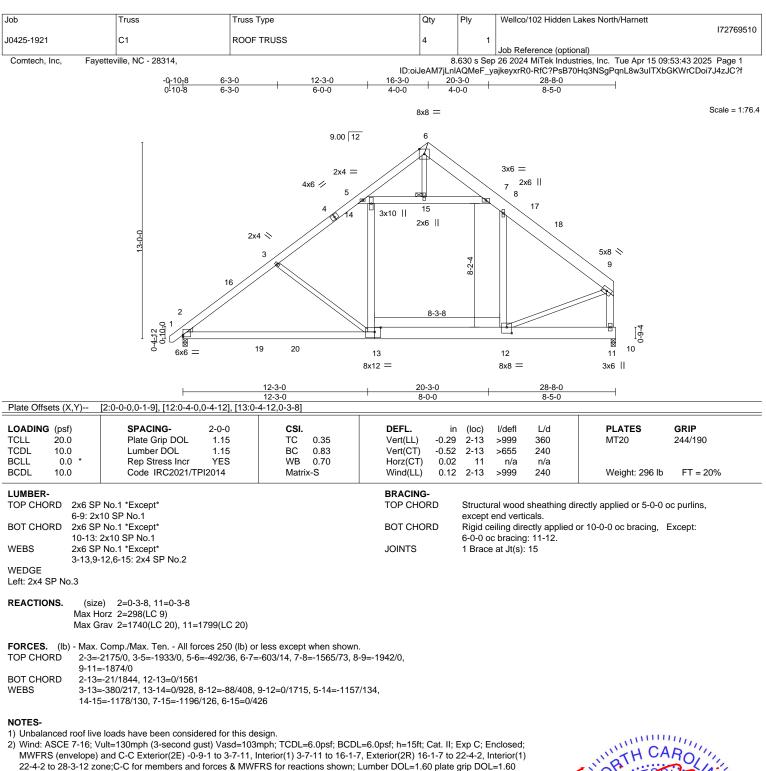


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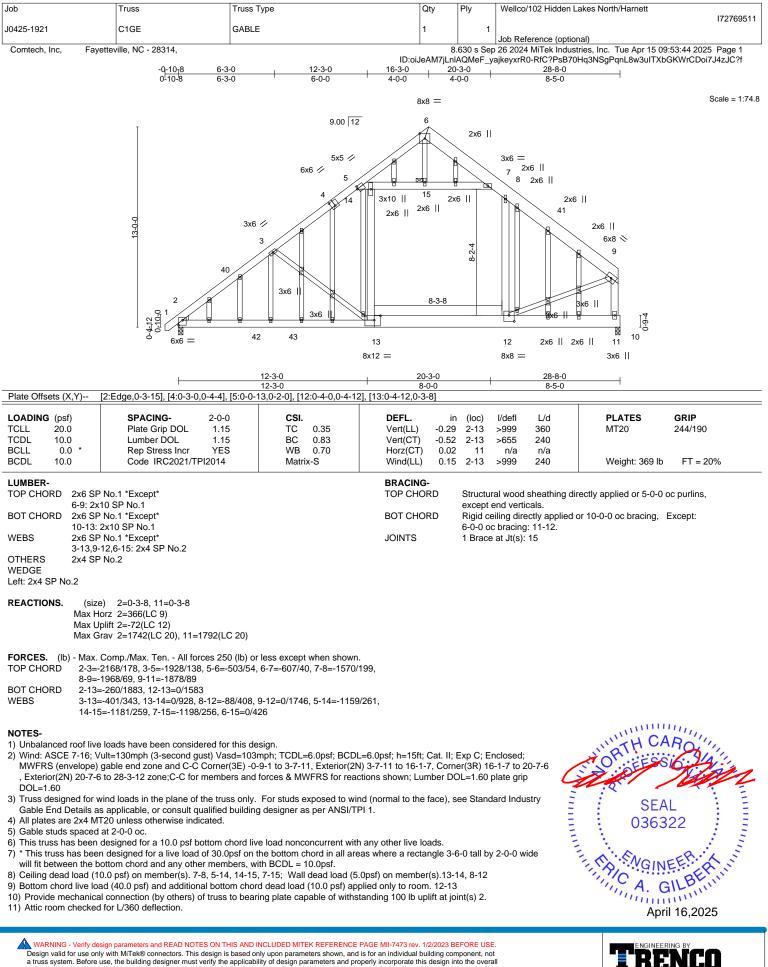
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

- 5) Ceiling dead load (10.0 psf) on member(s). 7-8, 5-14, 14-15, 7-15; Wall dead load (5.0psf) on member(s).13-14, 8-12
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-13

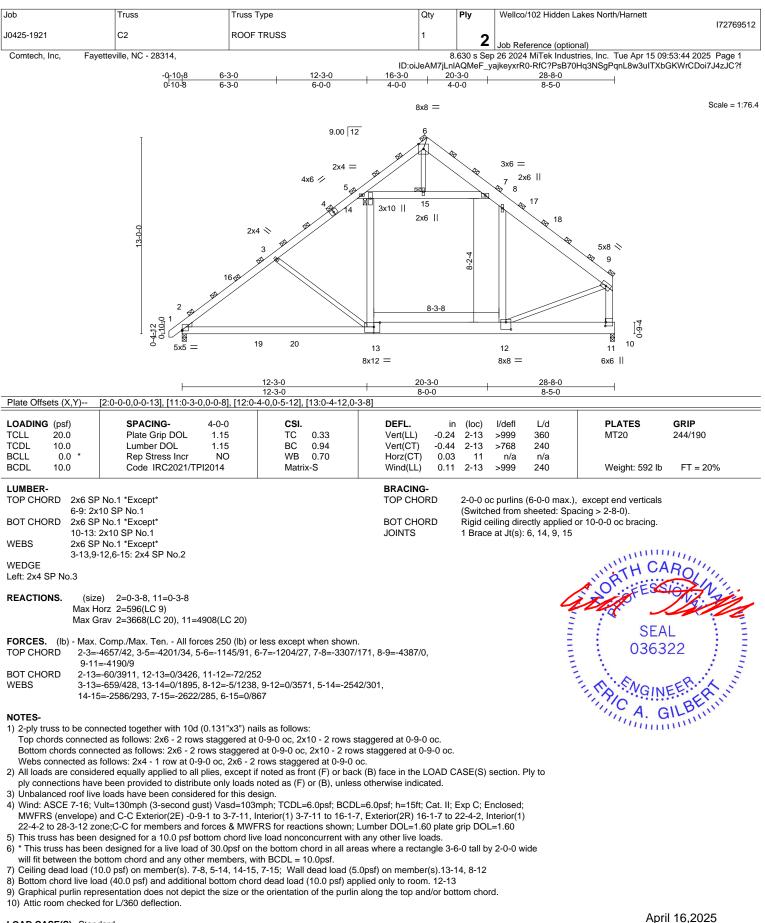
7) Attic room checked for L/360 deflection.



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## LOAD CASE(S) Standard

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	Job	Truss	Truss Type	Qty	Ply	Wellco/102 Hidden Lakes North/Harnett
						172769512
	J0425-1921	C2	ROOF TRUSS	1	2	
					<b></b>	Job Reference (optional)
Comtech, Inc,         Fayetteville, NC - 28314,         8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Apr 15 09:53:45 2025 P						

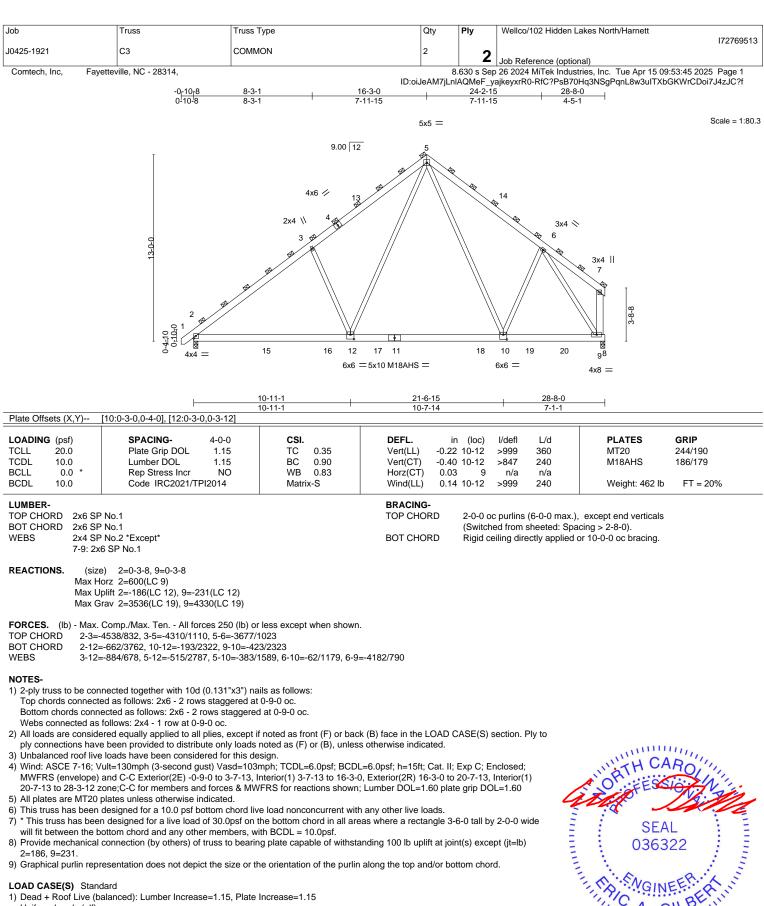
ID:oiJeAM7jLnIAQMeF\_yajkeyxrR0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

## LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-6=-120, 6-7=-120, 7-8=-160, 8-9=-120, 2-13=-40, 12-13=-80, 11-12=-160(F=-120), 10-11=-40, 5-7=-40 Drag: 13-14=-20, 8-12=-20

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Uniform Loads (plf)

Vert: 1-5=-120, 5-7=-120, 2-17=-40, 8-17=-160(F=-120)

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Job	Truss	Truss Type	Qty	Ply	Wellco/102 Hidden L	akes North/Harnett	
J0425-1921	C4	COMMON	3	1			172769514
Comtech, Inc, Fay	vetteville, NC - 28314,			.630 s Ser	Job Reference (option o 26 2024 MiTek Indust	nal) tries, Inc. Tue Apr 15 09	:53:45 2025 Page 1
		8-3-1 1			ajkeyxrR0-RfC?PsB70	Hq3NSgPqnL8w3uITXb -8-0	
			11-15	7-11-		5-1	
			5x5 =				Scale = 1:76.7
		9.00 12 4x6 = 13 2x4 \\ 4 3 15 16 12 4x4 =	E 17 11	18	14 3x4 6 10 19 20 3x4 =	3x4    7 8 98	
		10-11-1	21-6-15		28-8-0	4x8 =	
Plate Offsets (X,Y)		10-11-1	10-7-14		7-1-1		
	[2:0-0-0,0-0-9]						
LOADING (psf) TCLL 20.0	SPACING-2-0-0Plate Grip DOL1.15	<b>CSI.</b> TC 0.29		n (loc) 5 10-12	l/defl L/d >999 360	PLATES MT20	<b>GRIP</b> 244/190
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.63 WB 0.38	Vert(CT) -0.24 Horz(CT) 0.03		>999 240 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-S	. ,	2-12	>999 240	Weight: 231 lb	FT = 20%
			BRACING- TOP CHORD BOT CHORD WEBS	except e	end verticals. eiling directly applied of	rectly applied or 5-5-13 or 10-0-0 oc bracing. i-12, 6-9	oc purlins,
Max H Max L	e) 2=0-3-8, 9=0-3-8 torz 2=300(LC 9) Jplift 2=-65(LC 12), 9=-41(LC 12) Grav 2=1507(LC 19), 9=1459(LC 1	9)					
TOP CHORD2-3=BOT CHORD2-12	. Comp./Max. Ten All forces 250 -1814/302, 3-5=-1707/443, 5-6=-12 =-243/1531, 10-12=-28/887, 9-10= =-468/346, 5-12=-202/1173, 5-10=	292/375 -125/818					
2) Wind: ASCE 7-16; MWFRS (envelope) 20-7-13 to 28-3-12	e loads have been considered for t Vult=130mph (3-second gust) Vasc and C-C Exterior(2E) -0-9-0 to 3-7 zone;C-C for members and forces deciment for a 1.0 or ph better the	l=103mph; TCDL=6.0psf; BCDL <sup>7</sup> -13, Interior(1) 3-7-13 to 16-3-0 & MWFRS for reactions shown;	, Exterior(2R) 16-3-0 to Lumber DOL=1.60 plate	20-7-13,	Interior(1)		

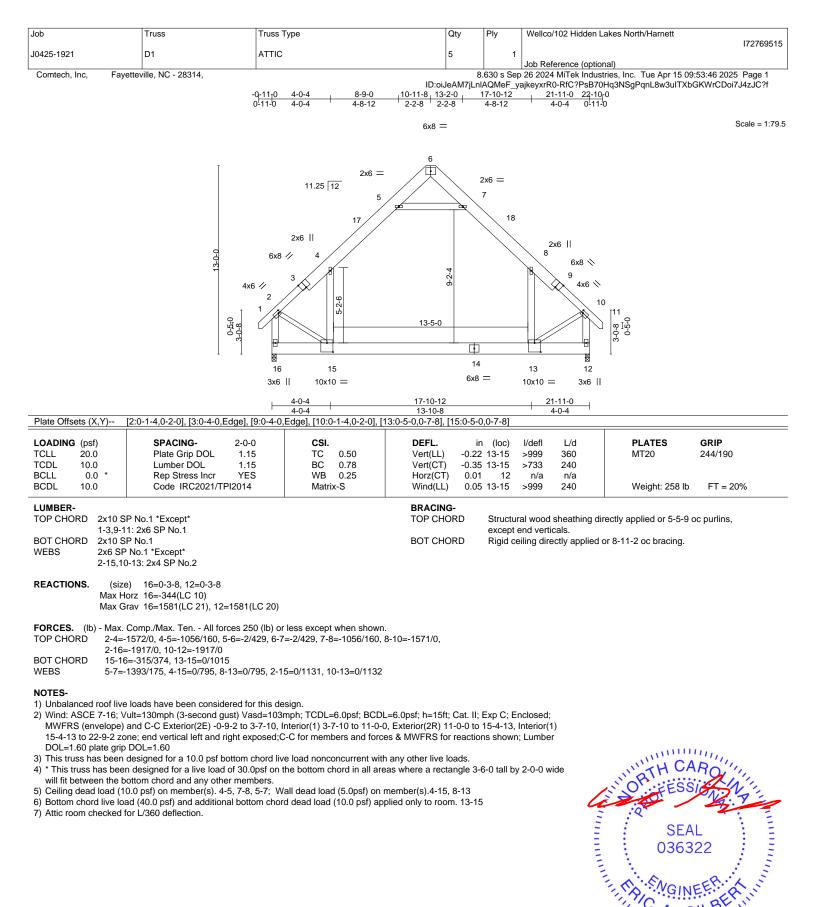
3) This truss has been designed for a 10.0 psf bottom chord live load on concourrent with any other live loads.
4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with  $\mbox{BCDL}$  = 10.0psf.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.



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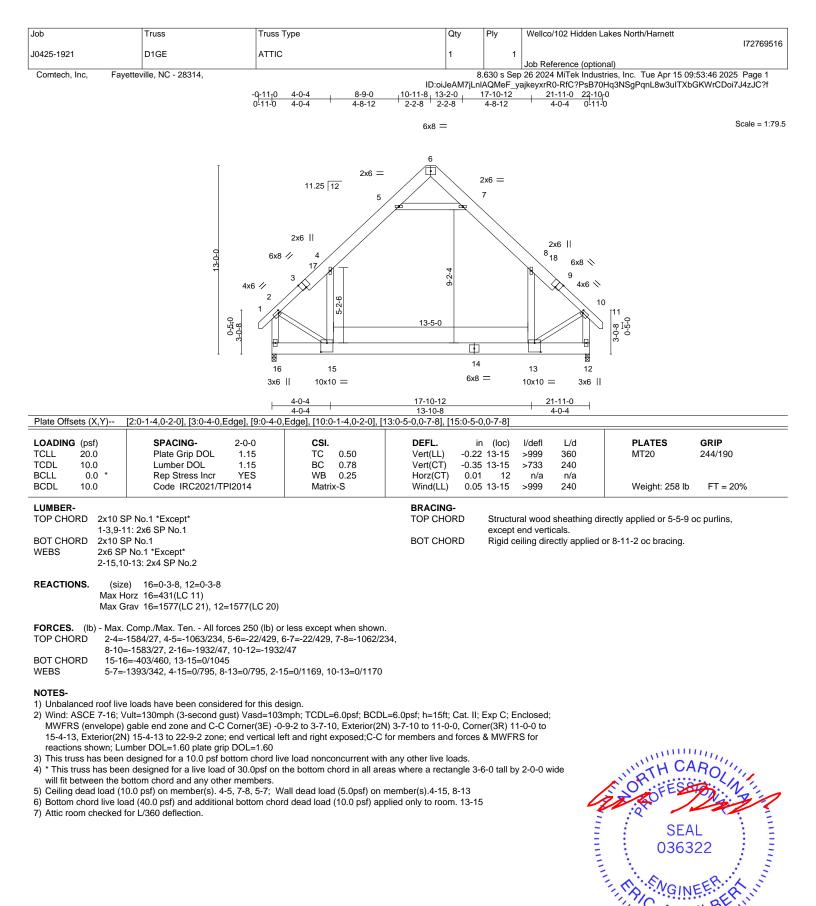
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818 Soundside Road

Edenton, NC 27932

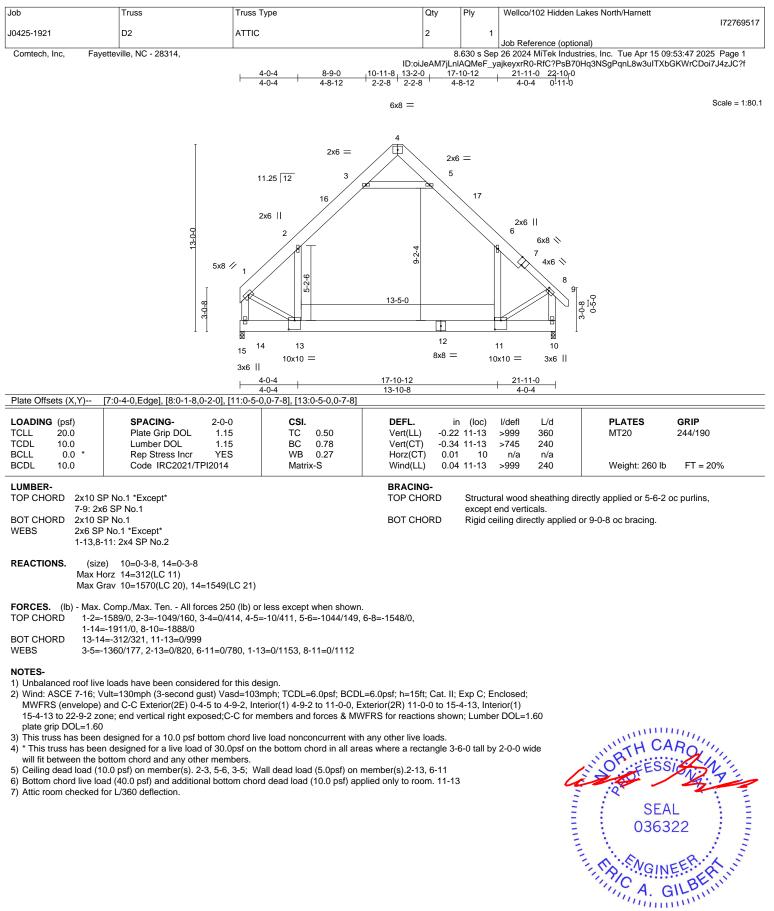
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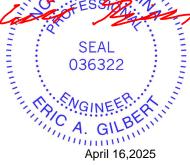
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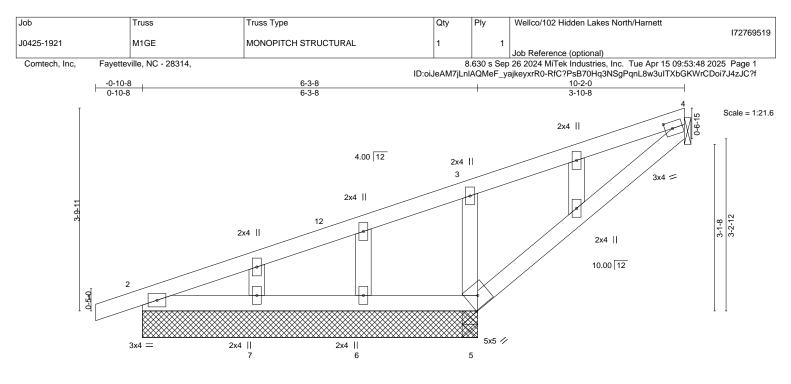
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Wellco/102 Hidden La	akes North/Harnett	]
J0425-1921	D3	ATTIC	3	1			172769518
J0425-1921	03	ATTIC	3	1	Job Reference (option	al)	
Comtech, Inc, Fay	etteville, NC - 28314,	4-0-4 8-9-0 4-0-4 4-8-12	ID:oiJeAM7jLn 10-11-8 13-2-0 1		0 26 2024 MiTek Industr ajkeyxrR0-RfC?PsB70F 21-11-0 4-0-4		
	13.00 30.8	2x6 =		x6 = 5 16	$ \begin{array}{c} 2x6 \\ 6 \\ 5x8 \\ 7 \\ 10 \\ 98 \\ 10x10 \\ 3x6 \\ 10 \end{array} $	8- Q- K	
Plate Offsets (X,Y)	[10:0-5-0,0-7-8], [12:0-5-0,0-7-8	3x6      <u>4-0-4</u> 	17-10-12 13-10-8		<u>+ 21-11-0</u> <u>+ 4-0-4</u>		
LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	SPACING- 2-0- Plate Grip DOL 1.1 Lumber DOL 1.1 Rep Stress Incr YEI Code IRC2021/TPI2014	5 TC 0.50 5 BC 0.77	Vert(LL) -0.22 Vert(CT) -0.34 Horz(CT) 0.01		l/defl L/d >999 360 >759 240 n/a n/a >999 240	PLATES MT20 Weight: 263 lb	<b>GRIP</b> 244/190 FT = 20%
			BRACING- TOP CHORD BOT CHORD	except	al wood sheathing dire end verticals. illing directly applied o		oc purlins,
Max H	e) 13=0-3-8, 9=0-3-8 orz 13=-320(LC 8) rav 13=1542(LC 21), 9=1542(L	C 20)					
TOP CHORD 1-2=- 1-13= BOT CHORD 12-13		0 (Ib) or less except when shown 396, 4-5=-8/396, 5-6=-1040/155, 1 205, 1-12=0/1144, 7-10=0/1146					
<ol> <li>Wind: ASCE 7-16; V MWFRS (envelope) 15-4-13 to 21-7-11 z DOL=1.60 plate grip</li> <li>This truss has been</li> <li>* This truss has been will fit between the b</li> <li>Ceiling dead load (10)</li> </ol>	and C-C Exterior(2E) 0-4-5 to 4 one; end vertical left and right e DOL=1.60 designed for a 10.0 psf bottom in n designed for a live load of 30.0 ottom chord and any other mem 0.0 psf) on member(s). 2-3, 5-6, ad (40.0 psf) and additional bott	sd=103mph; TCDL=6.0psf; BCDL 9-2, Interior(1) 4-9-2 to 11-0-0, E kposed;C-C for members and for chord live load nonconcurrent with psf on the bottom chord in all are	xterior(2R) 11-0-0 to 15- ces & MWFRS for reaction any other live loads. as where a rectangle 3- member(s).2-12, 6-10	-4-13, Inte ons show 6-0 tall by	rior(1) n; Lumber	TH CA	ROUNT



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		6-3-8 6-3-8						<u>10-2-0</u> 3-10-8		
Plate Offsets (X,Y)	[4:0-1-11,0-1-8]									
LOADING         (psf)           TCLL         20.0           TCDL         10.0           BCLL         0.0         *           BCDL         10.0	Plate Grip DOL Lumber DOL	2-0-0 <b>CSI.</b> 1.15 TC 1.15 BC YES WB 014 Matr	0.29 0.19 0.06	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.01 -0.02 -0.00 0.00	(loc) 4-5 4-5 4 2-7	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	<b>PLATES</b> MT20 Weight: 42 lb	<b>GRIP</b> 244/190 FT = 20%

LUMBER-			BRACING-	Otras da la construcción de la contra de la construcción de la		
TOP CHORD BOT CHORD			TOP CHORD BOT CHORD	Structural wood sheathing dir Rigid ceiling directly applied of		
WEBS	2x4 SP No.2		Doronond	6-0-0 oc bracing: 4-5.	er to o o oo braoing,	2.000
OTHERS	2x4 SP No.2	2				

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

WEBS 3-5=-353/339

## NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -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.

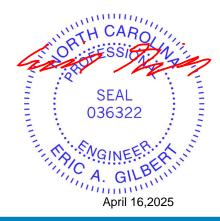
3) Gable studs spaced at 2-0-0 oc.

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. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



Edenton, NC 27932

