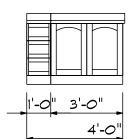
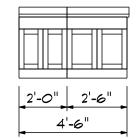
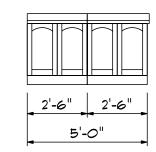


Master Bath Cabinets





Hall Bath Cabinets



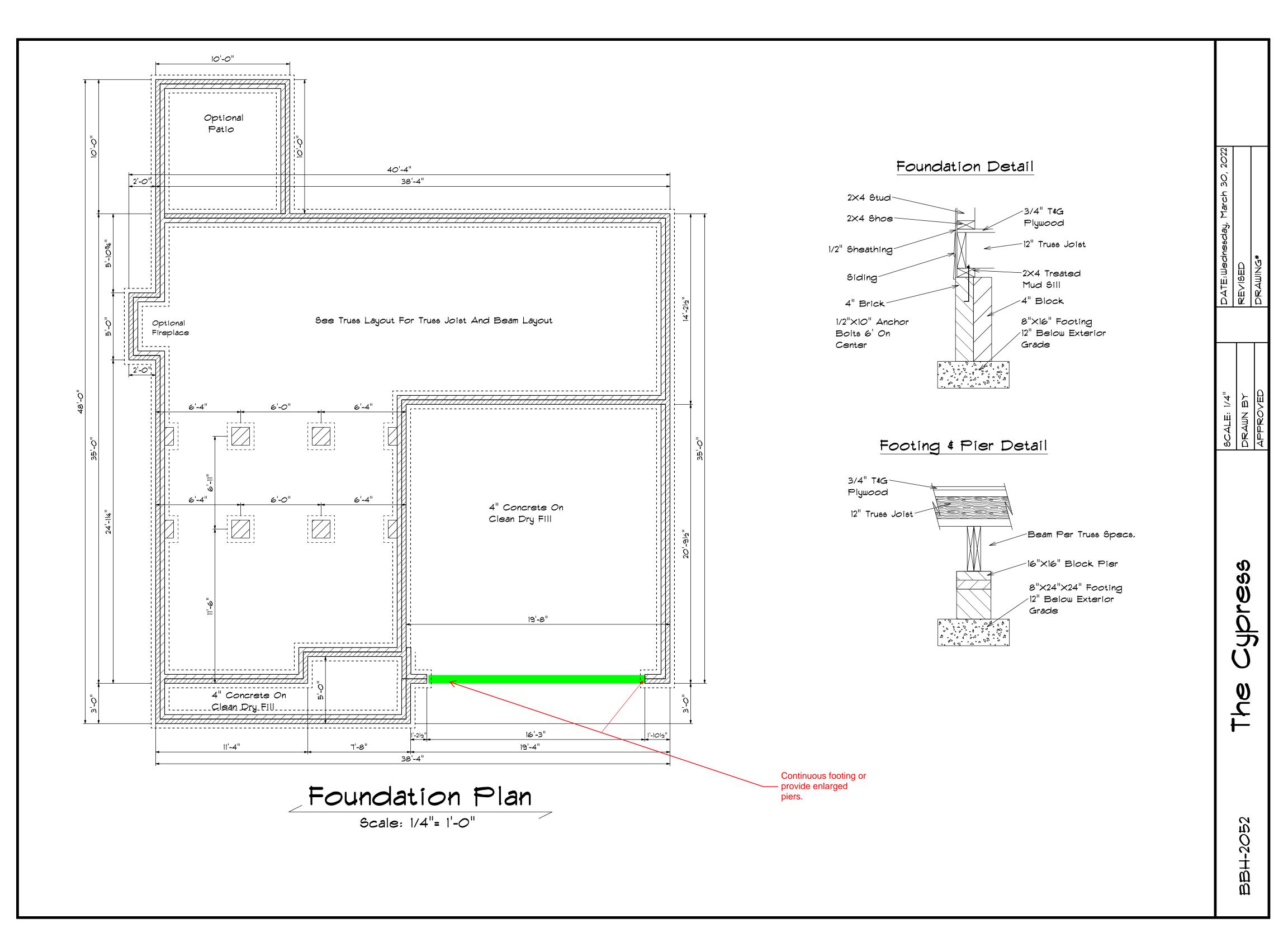
SECOND FLOOR OPENING SCHEDULE									
PRODUCT CODE	SIZE	HINGE	COUNT						
2-0 Door Unit	2'-0"	R	1						
20 cased opening	2'-0"	N	2						
20 colonial	2'-0"	R	3						
26 colonial	2'-6"	L	4						
3-0 Doublehung Door Unit	4'-0"	LR	3						
28 colonial	2'-8"	R	1						
20x32 single	2'-0" x 3'-2"	N	1						
28x52 Twin	5'-4" x 5'-2"	NA	1						
28x52 single	2'-8" x 5'-2"	N	4						

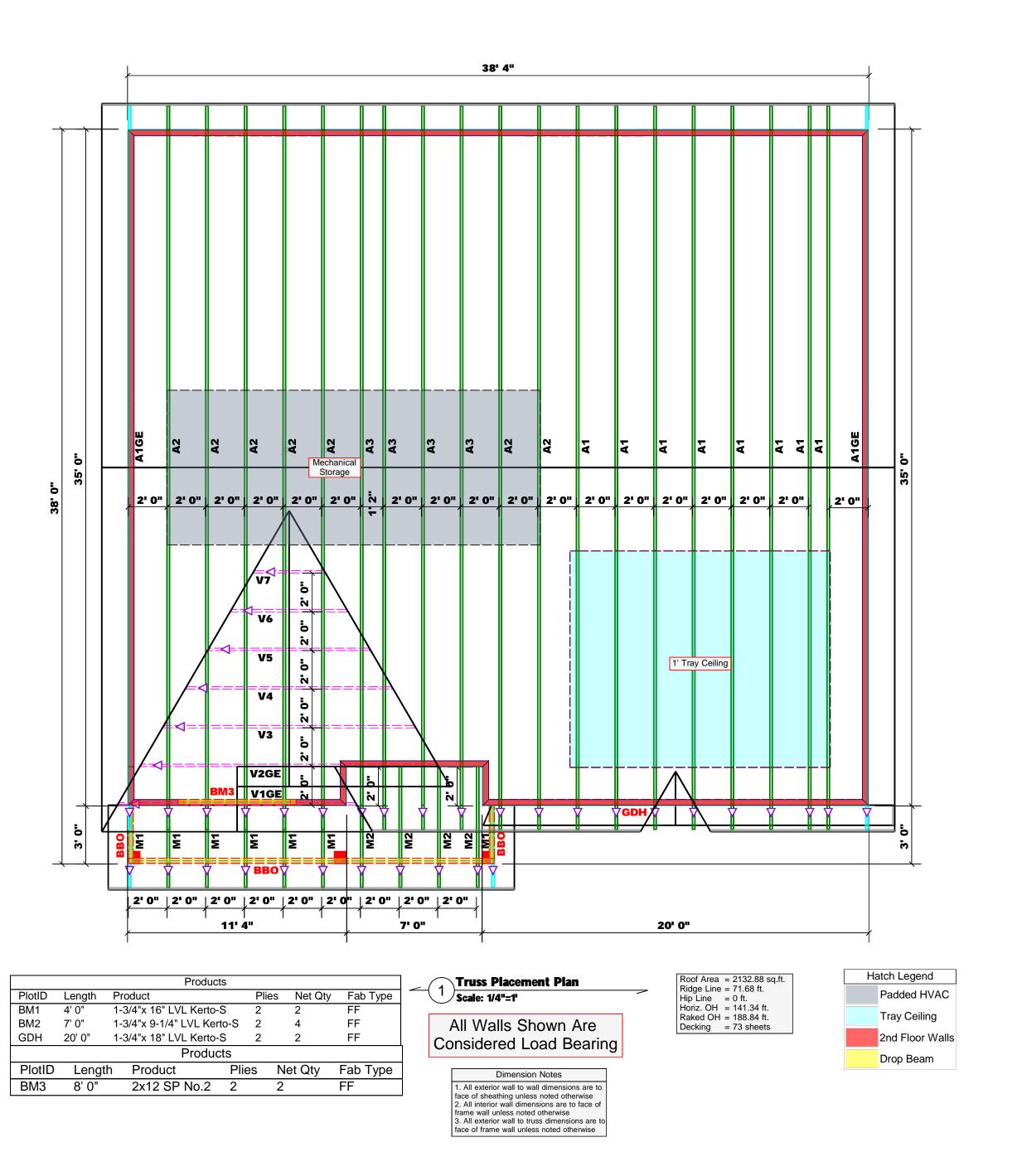
Second Floor Plan

Scale: 1/4"= 1'-0"

BBH-2052

Cypress







Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Cod requirements) to determine the minimum foundatio size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attache Tables. A registered design professional shall be retained to design the support system for all

David Landry

David Landry

LO	LOAD CHART FOR JACK STUDS												
	(BASED ON TABLES ROCES(I) & (b))												
NUMBER OF JACK STUDS REQUIRED 8 EA END OF HEADED/GEBOER													
END REACH ON (0P 10)	REQ'D STUDG FOR (2) PLY HEADER			BND REACTION (UP TD)	PEO'S STUDS FOR	(3) ALY HEADER		END REACTION	(no. 10)	REQ15 STUDS FOR (4) PLY HEADER			
1700	1			2550		1		340	0	1			
3400	2			5100		2		680	0	2			
5100	3			7650		3		1020	ю	3			
6800	4			10200		4		1360	Ю	4			
8500	5			12750		5		1700	Ю	5			
10200	6			15300		6							
11900	7												
13600	8												
15300	9												

BUILDER	Ben Stout Real Estate	CITY / CO.	CITY / CO. Linden / Harnett
JOB NAME	Lot 2 Walker Rd.	ADDRESS	740 Walker Road
PLAN	Cypress	MODEL	Roof
SEAL DATE	N/A	DATE REV.	03/21/22
QUOTE #		DRAWN BY	DRAWN BY David Landry
10B #	J0321-1693	SALES REP.	SALES REP. Marshall Naylor

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.
These trusses are designed as individual building components to be incorporated into the building design at the specification of the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com

= Indicates Left End of Truss
(Reference Engineered Truss Drawing)
Do NOT Erect Truss Backwards



RE: J0321-1693 Lot 2 Walker Rd. **Trenco** 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Benjamin Stout Real Estate Project Name: J0321-1693 Lot/Block: 2 Model: Cypress

Address: 740 Walker Road Subdivision: Walker Rd.

State: NC City: Linden

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.3

Wind Code: ASCE 7-10 Wind Speed: 130 mph Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 15 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	E16497598	A1	12/23/2021
2	E16497599	A1GE	12/23/2021
3	E16497600	A2	12/23/2021
4	E16497601	A3	12/23/2021
5	E16497602	B1	12/23/2021
6	E16497603	B1GE	12/23/2021
7	E16497604	M1	12/23/2021
8	E16497605	M2	12/23/2021
9	E16497606	V1GE	12/23/2021
10	E16497607	V2GE	12/23/2021
11	E16497608	V3	12/23/2021
12	E16497609	V4	12/23/2021
13	E16497610	V5	12/23/2021
14	E16497611	V6	12/23/2021
15	E16497612	V7	12/23/2021

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: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2022

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.



December 23, 2021

Job	Truss	Truss Type	Qty	Ply	Lot 2 Walker Rd.			
J0321-1693	A1	ROOF SPECIAL	8	1	E16497598			
00021 1000	,			·	Job Reference (optional)			
0.400 - Aug 40.0004 MT-b to total for the Dec 00.40.0004 Person								

Fayetteville, NC - 28314,

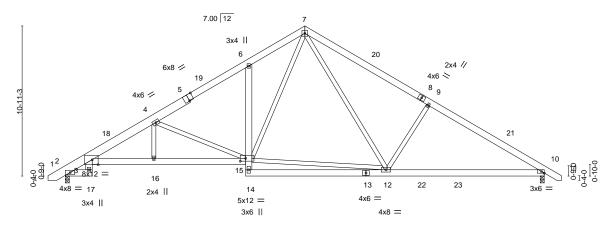
 $ID: 1GKHPpts UBRSV9D\overset{\smile}{y}CFb7Gmz8LdV-SVf9lh?AAErqwj0N79nlo1s1ulfaqawq9pfZtSy66qX$

34-11-0 26-5-8 36-2-0 1-3-0 4-3-12 9-0-0 8-5-8

> Scale = 1:79.0 5x5 =

> > Structural wood sheathing directly applied or 5-0-6 oc purlins.

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



		1-11-8 6-5-8	1	13-1-12	17-5-	·8 _I	23-5	-8 _I		34-11-0		
		1-11-8 4-6-0		6-8-4	4-3-1	2	6-0-	0		11-5-8		
Plate Offse	ets (X,Y)	[3:0-5-4,Edge], [5:0-4-0,E	dge], [15:0-4	12,0-2-8]								
LOADING	(psf)	SPACING-	2-0-0	CSI.			DEFL.	in (loc	c) I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.46		Vert(LL)	-0.14 10-1	2 >999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.57		Vert(CT)	-0.29 10-1	2 >999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.97		Horz(CT)	0.16 1	0 n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matrix	∢-S		Wind(LL)	0.09 1	6 >999	240	Weight: 281 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x6 SP No.1 *Except*

1-5: 2x8 SP 2400F 2.0E

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

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=-259(LC 10)

Max Uplift 2=-93(LC 12), 10=-95(LC 13)

Max Grav 2=1450(LC 1), 10=1459(LC 1)

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

2-3=-944/196, 3-4=-2689/491, 4-6=-1959/432, 6-7=-1921/538, 7-9=-1933/492, TOP CHORD

9-10=-2149/442

BOT CHORD 3-16=-332/2550, 15-16=-329/2548, 6-15=-254/197, 12-14=-2/353, 10-12=-250/1758 4-15=-1030/258, 12-15=-10/881, 7-15=-228/942, 9-12=-550/316, 7-12=-143/827 **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; DCDL=6.0psf; and C-C Exterior(2) -0-11-4 to 3-5-9, Interior(1) 3-5-9 to 17-5-8, Exterior(2) 17-5-8 to 21-10-5, Interior(1) 21-10-5 to 36-0-0 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 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 100 lb uplift at joint(s) 2, 10. 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1.



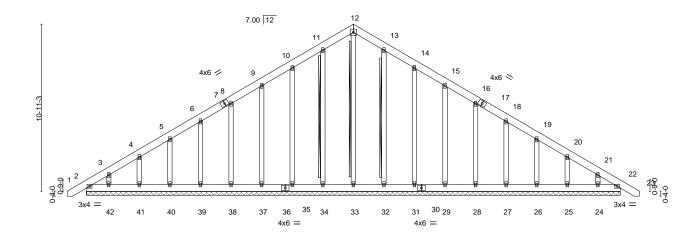
December 23,2021





	Job		Truss	Truss Type		Qty	Ply	Lot 2 Walker Rd.	
-								E164975	99
-	J0321-1693		A1GE	GABLE		2	1		
-								Job Reference (optional)	
	Comtech, Inc, F	ch, Inc, Fayetteville, NC - 28314,		8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:03:42 2021 Page 1					
		······································			ID:1GKHP	ptsUBRS\	9DyCFb7	Gmz8LdV-PunvAN1Qis5YA1AmEaqmtSyUpZTjlh_7c78gxKy66qV	
	_t 1-	-3-0 _i	14-0-5	1	20-10-11			34-11-0 36-2-0	
	1-	·3-0¹	14-0-5	1	6-10-6			14-0-5	

5x5 =



		34-11-0								
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. DEFL. TC 0.05 Vert(LL		PLATES GRIP MT20 244/190						
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	BC 0.02 Vert(CT WB 0.16 Horz(C' Matrix-S	,	Weight: 312 lb FT = 20%						

34-11-0

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 OTHERS 2x4 SP No.2 BRACING-

TOP CHORD BOT CHORD WEBS Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. T-Brace: 2x4 SPF No.2 - 12-33, 11-34, 13-32

1-Brace: 2x4 SPF No.2 - 12-33, 11-34, 13-3 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 34-11-0.

(lb) - Max Horz 2=-259(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 34, 35, 37, 38, 39, 40, 41, 42, 32, 31, 29, 28, 27, 26, 25,

24, 22

Max Grav All reactions 250 lb or less at joint(s) 2, 33, 34, 35, 37, 38, 39, 40, 41, 42, 32, 31, 29, 28, 27,

26, 25, 24, 22

 $\textbf{FORCES.} \quad \text{(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.}$

TOP CHORD 2-3=-252/208, 10-11=-227/254, 11-12=-257/293, 12-13=-257/293, 13-14=-227/254

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) -1-1-0 to 3-5-8, Exterior(2) 3-5-8 to 17-5-8, Corner(3) 17-5-8 to 21-10-5, Exterior(2) 21-10-5 to 36-0-0 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 34, 35, 37, 38, 39, 40, 41, 42, 32, 31, 29, 28, 27, 26, 25, 24, 22.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



Scale = 1:70.9

December 23,2021

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

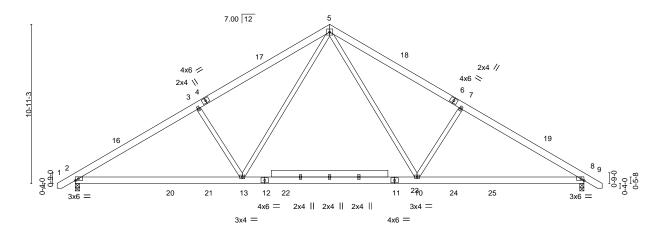
ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



818 Soundside Road

Job		Truss	Truss Type		Qty	Ply	Lot 2 Walker Rd.		
									E16497600
J0321-1693		A2	COMMON		7	1			
							Job Reference (optional)		
Comtech, Inc,	Comtech, Inc, Fayetteville, NC - 28314,				8.	430 s Aug	16 2021 MiTek Industries, Inc.	Thu Dec 23 10:03:43 2	021 Page 1
				ID:1GKHPp	tsUBRSV	DyCFb70	mz8LdV-t4KHNj12T9DPnAlyo	HL?QgUZ2zcG15EGrnu	ıDUny66qU
	_T 1-3-0	8-5-8	17-5-8		26-5	-8	34-11-0	36-2-0	
	1-3-0	8-5-8	9-0-0	1	9-0-	0	8-5-8	1-3-0	
				5v5 —					Scale = 1:74.4



	11-5-8	12-0-0	11-5-8	1
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. DEFL. in (k	oc) I/defl L/d PLATES -13 >865 360 MT20	GRIP 244/190
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr NO	BC 0.90 Vert(CT) -0.59 10- WB 0.36 Horz(CT) 0.06	8 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S Wind(LL) 0.05 2-	-13 >999 240 Weight: 253	3 lb FT = 20%

23-5-8

LUMBER-

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

BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 4-8-15 oc purlins.

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

34-11-0

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

Max Horz 2=-259(LC 10)

Max Uplift 2=-95(LC 12), 8=-95(LC 13) Max Grav 2=1663(LC 19), 8=1663(LC 20)

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

TOP CHORD $2\hbox{-}3\hbox{-}-2517/438,\ 3\hbox{-}5\hbox{-}-2319/492,\ 5\hbox{-}7\hbox{-}-2320/492,\ 7\hbox{-}8\hbox{-}-2517/438}$

BOT CHORD $2\hbox{-}13\hbox{=-}237/2250,\ 10\hbox{-}13\hbox{=-}14/1444,\ 8\hbox{-}10\hbox{=-}247/2056}$

WEBS 5-10=-141/1111, 7-10=-541/312, 5-13=-141/1110, 3-13=-541/312

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) -1-1-0 to 3-3-13, Interior(1) 3-3-13 to 17-5-8, Exterior(2) 17-5-8 to 21-10-5, Interior(1) 21-10-5 to 36-0-0 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 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 100 lb uplift at joint(s) 2, 8.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Load case(s) 2, 3, 18, 19, 20, 21, 22, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 8) 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: 1-5=-60, 5-9=-60, 2-8=-20 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-5=-50, 5-9=-50, 2-20=-20, 20-21=-65, 21-22=-20, 22-23=-65(F=-45), 23-24=-20, 24-25=-65, 8-25=-20
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-5=-20, 5-9=-20, 2-22=-40, 22-23=-100(F=-60), 8-23=-40



December 23,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



Ţ.	Job	Truss	Truss Type	Qty	Ply	Lot 2 Walker Rd.
	10004 4000	Δ2	COMMON	_		E16497600
ľ	J0321-1693	A2	COMMON	'	1	Job Reference (optional)

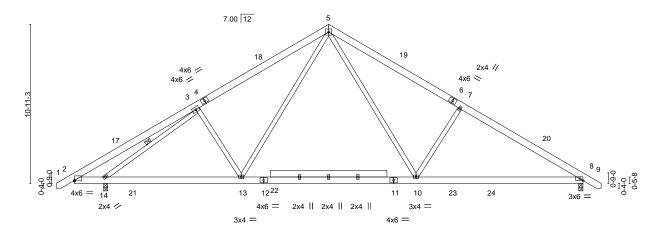
Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:03:43 2021 Page 2 ID:1GKHPptsUBRSV9DyCFb7Gmz8LdV-t4KHNj12T9DPnAlyoHL?QgUZ2zcG15EGrnuDUny66qU

LOAD CASE(S) Standard

- Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)
 - Vert: 1-5=-20, 5-9=-20, 2-20=-20, 20-21=-80, 21-22=-20, 22-23=-80(F=-60), 23-24=-20, 24-25=-80, 8-25=-20
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
 - Vert: 1-2=-56, 2-5=-61, 5-8=-43, 8-9=-38, 2-20=-20, 20-21=-65, 21-22=-20, 22-23=-65(F=-45), 23-24=-20, 24-25=-65, 8-25=-20 Horz: 1-2=6, 2-5=11, 5-8=7, 8-9=12
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
 - Vert: 1-2=-38, 2-5=-43, 5-8=-61, 8-9=-56, 2-20=-20, 20-21=-65, 21-22=-20, 22-23=-65(F=-45), 23-24=-20, 24-25=-65, 8-25=-20 Horz: 1-2=-12, 2-5=-7, 5-8=-11, 8-9=-6
- 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
 - Vert: 1-2=-31, 2-5=-36, 5-8=-45, 8-9=-40, 2-20=-20, 20-21=-65, 21-22=-20, 22-23=-65(F=-45), 23-24=-20, 24-25=-65, 8-25=-20 Horz: 1-2=-19, 2-5=-14, 5-8=5, 8-9=10
- 22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
 - Vert: 1-2=-40, 2-5=-45, 5-8=-36, 8-9=-31, 2-20=-20, 20-21=-65, 21-22=-20, 22-23=-65(F=-45), 23-24=-20, 24-25=-65, 8-25=-20 Horz: 1-2=-10, 2-5=-5, 5-8=14, 8-9=19
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-5=-50, 5-9=-20, 2-20=-20, 20-21=-65, 21-22=-20, 22-23=-65(F=-45), 23-24=-20, 24-25=-65, 8-25=-20
- 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
 - Vert: 1-5=-20, 5-9=-50, 2-20=-20, 20-21=-65, 21-22=-20, 22-23=-65(F=-45), 23-24=-20, 24-25=-65, 8-25=-20

Job		Truss	Truss Type			Qty	Ply	Lot 2 Walker Rd.		
										E16497601
J0321-1693		A3	COMMON			4	1			
								Job Reference (optional)		
Comtech, Inc, Fay	ette	rille, NC - 28314,				8.4	130 s Aug	16 2021 MiTek Industries, Inc. T	Thu Dec 23 10:03:44 20	021 Page 1
				ID:	1GKHPpts	UBRSV9D	yCFb7Gm	nz8LdV-LHufa22gETLGPKK8M?s	sEyt1krN?RmVYQ3Rd	m0Dy66qT
	-3-Q	8-5-8	1	17-5-8	1	26-5-	8	34-11-0	36-2-0	
ነ	3-0	8-5-8	'	9-0-0	1	9-0-0)	8-5-8	¹ 1-3-0 ¹	
				5	v5 =					Scale = 1:74.4



	2-0-0	9-5-8	ı	12-0-0	'	11-5-8	'	
Plate Offsets (X,Y)-	- [2:0-0-0,0-0-5]							
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 0.40	Vert(LL)	-0.17 13-14	>999 360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.64	Vert(CT)	-0.26 8-10	>999 240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.54	Horz(CT)	0.04 8	n/a n/a		
BCDL 10.0	Code IRC2015/	ΓPI2014	Matrix-S	Wind(LL)	0.04 10-13	>999 240	Weight: 265 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

23-5-8

LUMBER-

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

2x4 SP No 2 WFBS

REACTIONS. (size) 8=0-3-8, 14=0-3-8 Max Horz 14=-259(LC 10)

2-0-0

Max Uplift 8=-95(LC 13), 14=-100(LC 12) Max Grav 8=1455(LC 20), 14=1730(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-616/193, 3-5=-1780/419, 5-7=-1885/462, 7-8=-2083/408

BOT CHORD 2-14=-48/484, 13-14=-154/1683, 10-13=0/1163, 8-10=-215/1691 **WEBS** $5\text{-}10\text{=-}142/900,\ 7\text{-}10\text{=-}543/313,\ 5\text{-}13\text{=-}86/822,\ 3\text{-}13\text{=-}339/256,\ 3\text{-}14\text{=-}1761/543}$

11-5-8

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) -1-1-0 to 3-3-13, Interior(1) 3-3-13 to 17-5-8, Exterior(2) 17-5-8 to 21-10-5, Interior(1) 21-10-5 to 36-0-0 zone; cantilever left 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 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 100 lb uplift at joint(s) 8, 14. 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Load case(s) 2, 3, 18, 19, 20, 21, 22, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 8) 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: 1-5=-60, 5-9=-60, 2-8=-20

2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-50, 5-9=-50, 2-21=-20, 21-22=-65(F=-45), 22-23=-20, 23-24=-65, 8-24=-20

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-5=-20, 5-9=-20, 2-21=-40, 21-22=-100(F=-60), 8-22=-40



34-11-0

Structural wood sheathing directly applied or 5-2-2 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 2-14.

1 Row at midpt

December 23,2021



Job	Truss	Truss Type	Qty	Ply	Lot 2 Walker Rd.
10004 4000	4.0	001111011			E16497601
J0321-1693	A3	COMMON	4	1	Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:03:45 2021 Page 2 $ID:1GKHPptsUBRSV9DyCFb\overset{\circ}{7}Gmz8LdV-pTS2oO3J?nT71UvLwiNTV5ZvamKfVyoZI5NKYfy66qS$

LOAD CASE(S) Standard

18) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-5=-20, 5-9=-20, 2-21=-20, 21-22=-80(F=-60), 22-23=-20, 23-24=-80, 8-24=-20

19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-56, 2-5=-61, 5-8=-43, 8-9=-38, 2-14=-3, 14-21=-20, 21-22=-65(F=-45), 22-23=-20, 23-24=-65, 8-24=-20

Horz: 1-2=6, 2-5=11, 5-8=7, 8-9=12

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-38, 2-5=-43, 5-8=-61, 8-9=-56, 2-21=-20, 21-22=-65(F=-45), 22-23=-20, 23-24=-65, 8-24=-20 Horz: 1-2=-12, 2-5=-7, 5-8=-11, 8-9=-6

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-31, 2-5=-36, 5-8=-45, 8-9=-40, 2-21=-20, 21-22=-65(F=-45), 22-23=-20, 23-24=-65, 8-24=-20 Horz: 1-2=-19, 2-5=-14, 5-8=5, 8-9=10

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-40, 2-5=-45, 5-8=-36, 8-9=-31, 2-21=-20, 21-22=-65(F=-45), 22-23=-20, 23-24=-65, 8-24=-20 Horz: 1-2=-10, 2-5=-5, 5-8=14, 8-9=19

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

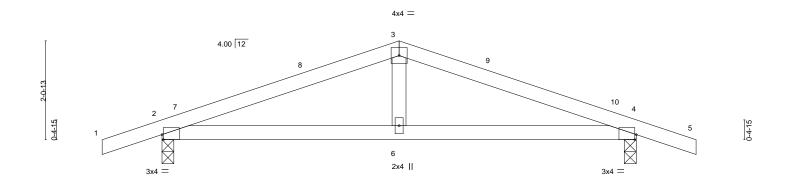
Vert: 1-5=-50, 5-9=-20, 2-21=-20, 21-22=-65(F=-45), 22-23=-20, 23-24=-65, 8-24=-20

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-5=-20, 5-9=-50, 2-21=-20, 21-22=-65(F=-45), 22-23=-20, 23-24=-65, 8-24=-20

Job		Truss	Truss Type	Qty	Ply	Lot 2 Walker Rd.		
							E1649	97602
J0321-1693		B1	COMMON	4	1			
						Job Reference (optional)		
Comtech, Inc,	Fayettev	ville, NC - 28314,		8.	430 s Aug	16 2021 MiTek Industries, Inc. Thu Dec	23 10:03:45 2021 Page	1
			ID:1	GKHPptsUBRSV9	DyCFb7Gr	nz8LdV-pTS2oO3J?nT71UvLwiNTV5Zy	1mRWV4VZI5NKYfy66q	S
ı	-1-3-0		4-11-8			9-11-0	11-2-0	
ſ	1-3-0	1	4-11-8	1		4-11-8	1-3-0	

Scale = 1:22.7



				-11-8		-			4-11-8			
Plate Offsets	(X,Y)	[2:0-0-6,Edge], [4:0-0-6,Edge]	dge]									
TCDL 1	osf) 0.0 0.0 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	BC	0.24 0.20 0.05	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.04 -0.03 0.01	(loc) 4-6 2-6	l/defl >999 >999 n/a	L/d 240 240 n/a	PLATES MT20	GRIP 244/190
	0.0	Code IRC2015/TP		Matrix			0.01	-	.,,	.,,4	Weight: 37 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 2=0-3-

(size) 2=0-3-0, 4=0-3-0 Max Horz 2=-25(LC 17) Max Uplift 2=-191(LC 8), 4=-191(LC 9) Max Grav 2=469(LC 1), 4=469(LC 1)

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

TOP CHORD 2-3=-654/750, 3-4=-654/750 BOT CHORD 2-6=-624/567, 4-6=-624/567

WEBS 3-6=-293/227

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) -1-3-0 to 3-1-13, Interior(1) 3-1-13 to 4-11-8, Exterior(2) 4-11-8 to 9-4-5, Interior(1) 9-4-5 to 11-2-0 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 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=191, 4=191.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

Rigid ceiling directly applied or 7-8-15 oc bracing.

December 23,2021

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

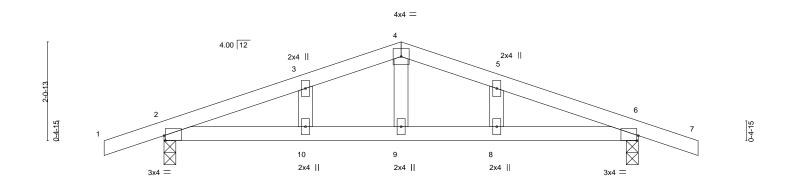
ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



Job	Truss	Truss Type	Qty	Ply	Lot 2 Walker Rd.	
						E16497603
J0321-1693	B1GE	GABLE	1	1		
					Job Reference (optional)	
Comtech, Inc, Fayette	ville, NC - 28314,		8.	430 s Aug	16 2021 MiTek Industries, Inc. Thu Dec 23 10:03:52 202	1 Page 1
		ID:1GI	KHPptsUBRSV	9DyCFb70	Gmz8LdV-6pNhGn8iLwM8NZxhqg?6HZM99bqmeELbvhZ	Blly66qL
-1-3-)	4-11-8			9-11-0 11-2-0	
1-3-0	1	4-11-8			4-11-8 1-3-0	

Scale = 1:22.7



		L		4-11-8		1			9-11-0			
				4-11-8		'			4-11-8			
Plate Offsets (X,	Y) [2:0-0-6	,Edge], [6:0-0-6,E	dge]									
LOADING (psf)	s	PACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	F	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	0.04	` <i>8</i>	>999	240	MT20	244/190
TCDL 10.0	L	umber DOL	1.15	BC	0.23	Vert(CT)	-0.04	10	>999	240		
BCLL 0.0	* F	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.01	6	n/a	n/a		
BCDL 10.0		Code IRC2015/TP	12014	Matri	x-S						Weight: 39 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.2 WFBS 2x4 SP No.2 **OTHERS**

REACTIONS. (size) 2=0-3-0. 6=0-3-0

Max Horz 2=-42(LC 13)

Max Uplift 2=-271(LC 8), 6=-271(LC 9) Max Grav 2=469(LC 1), 6=469(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-655/778, 3-4=-607/789, 4-5=-607/790, 5-6=-655/778

BOT CHORD 2-10=-660/573, 9-10=-660/573, 8-9=-660/573, 6-8=-660/573

WEBS 4-9=-291/185

- 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; 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 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=271, 6=271,
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

Rigid ceiling directly applied or 7-6-4 oc bracing.

December 23,2021

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

ANSITPH 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 Lot 2 Walker Rd. F16497604 J0321-1693 M1 MONOPITCH Job Reference (optional) Comtech, Inc. Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:03:57 2021 Page 1 -1-3-0 1-3-0 Scale = 1:11.5 3x4 | 5.00 12 1-3-3 8-1 2 0-6-5 3x4 || 3x4 = 3-0-0 3-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. **PLATES GRIP** in (loc) I/defl L/d 20.0 Plate Grip DOL 1.15 TC Vert(LL) 244/190 **TCLL** 0.09 -0.00 >999 360 MT20 **TCDL** 10.0 Lumber DOL 1.15 вс 0.02 Vert(CT) -0.00 2-4 >999 240

LUMBER-

BCLL

BCDL

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

0.0

Wind(LL)

BRACING-

Horz(CT)

0.00

0.00

2-4

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins,

n/a

240

Weight: 16 lb

FT = 20%

except end verticals.

n/a

>999

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

REACTIONS.

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

Max Horz 2=76(LC 12)

Max Uplift 2=-98(LC 8), 4=-38(LC 8) Max Grav 2=210(LC 1), 4=84(LC 1)

Rep Stress Incr

Code IRC2015/TPI2014

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

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) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-P

0.00

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

YES

- 3) * 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.
- 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 23,2021



Job		Truss	Truss Type	Qty	Ply	Lot 2 Walker Rd.		
							E1649760	5
J0321-1693		M2	MONOPITCH	4	1			
						Job Reference (optional)		
Comtech, Inc,	Fayette	ville, NC - 28314,	ID-40KUD-U-U	8.	430 s Aug	16 2021 MiTek Industries, Inc. Thu	Dec 23 10:03:58 2021 Page 1	
		120			JFD/GMZ8	LdV-xzkyWrDTxm6H5UOqAx6WXc	1C9UUV I ZYVVUHCUVVVVPY66QF	
		-1-3-0 1-3-0	+	5-0-0 5-0-0				
		100	•	000				
							Scale = 1:15	6.6
						3		
	Ī					3x4	I I	
			5.00 12	5				
							<u>ب</u>	
	_						1-2-1-3	
	6-1						2-6-11	
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	0-6-5	. /				<u> </u>	0-5-8	
	17	' //				/ /\	0	

LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP in (loc) I/defl Plate Grip DOL 1.15 TC Vert(LL) 244/190 TCLL 20.0 0.26 -0.01 2-4 >999 360 MT20 **TCDL** 10.0 Lumber DOL 1.15 вс 0.08 Vert(CT) -0.01 2-4 >999 240 WB **BCLL** 0.0 Rep Stress Incr YES 0.00 Horz(CT) 0.00 n/a n/a BCDL Code IRC2015/TPI2014 Matrix-P Wind(LL) 0.01 2-4 >999 240 Weight: 26 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x6 SP No.1 BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins,

3x4 II

except end verticals.

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

REACTIONS.

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

Max Horz 2=79(LC 12)

Max Uplift 2=-83(LC 8), 4=-57(LC 8) Max Grav 2=281(LC 1), 4=174(LC 1)

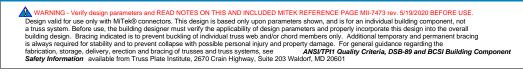
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) 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) -1-3-0 to 3-1-13, Interior(1) 3-1-13 to 4-9-4 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 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.
- 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 23,2021





Job	Truss	Truss Type	Qty	Ply	Lot 2 Walker Rd.
J0321-1693	V1GE	GABLE	1	1	E16497606
					Job Reference (optional)
Occupied to a Ferrett				100 - 1	40 0004 MT-1 Industrian Inc. The Dec 00 40 04 04 0004 Dec. 4

6-1-14

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:01 2021 Page 1 ID:1GKHPptsUBRSV9DyCFb7Gmz8LdV-LYQ59sFLEhUsyx7Ps3gD8TEjzDy2FIDw_aFA6ky66qC 12-3-12

4x4 = Scale = 1:37.2

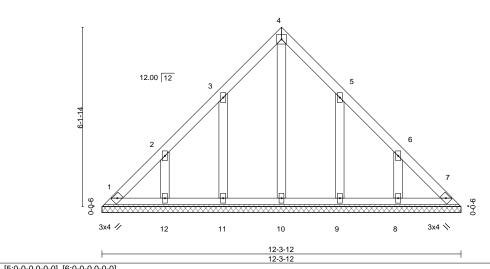


Plate Offsets (A, f)	[5.0-0-0,0-0-0], [6.0-0-0,0-0-0]				
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.05	DEFL. in Vert(LL) n/a	(loc) I/defl L	
TCDL 10.0		BC 0.03	Vert(CT) n/a		
			- (-)	- n/a 99	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT) 0.00	7 n/a n/	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S			Weight: 66 lb FT = 20%

LUMBER-

Dieta Offesta (V.V.)

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

BOT CHORD 2x4 SP No.1 OTHERS 2x4 SP No.2 BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-3-12.

(lb) - Max Horz 1=-174(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 11=-143(LC 12), 12=-148(LC 12), 9=-142(LC 13),

8=-149(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 11, 12, 9, 8

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) 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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 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 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 11=143, 12=148, 9=142, 8=149.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 23,2021





818 Soundside Road

Job	Tru	uss	Truss Type	Qty	Ply	Lot 2 Walker Rd.
J0321-1693	V2	2GE	GABLE	1	1	E16497607
00021 1000		.02				Job Reference (optional)
Comtech, Inc,	Fayetteville	, NC - 28314,		8.	430 s Aug	16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:04 2021 Page 1

4x4 = Scale = 1:45.2

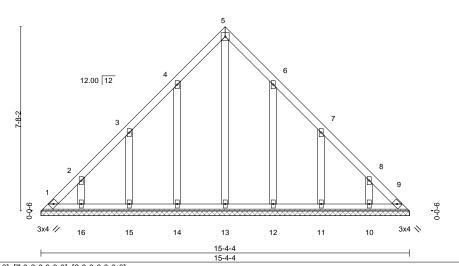


Plate Offsets (X,Y)-- [6:0-0-0,0-0-0], [7:0-0-0,0-0-0], [8:0-0-0,0-0-0] LOADING (psf) SPACING-CSI. DEFL. **PLATES GRIP** 2-0-0 I/defI L/d **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.05 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 ВС 0.03 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.15 Horz(CT) 0.00 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 92 lb FT = 20%

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

D 2x4 SP No.1 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.

REACTIONS. All bearings 15-4-4.

(lb) - Max Horz 1=-220(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 9 except 14=-142(LC 12), 15=-143(LC 12), 16=-128(LC 12),

12=-140(LC 13), 11=-144(LC 13), 10=-128(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 14, 15, 16, 12, 11, 10

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

TOP CHORD 1-2=-290/181, 8-9=-255/169

NOTES-

OTHERS

- 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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 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 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=lb) 14=142, 15=143, 16=128, 12=140, 11=144, 10=128.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 23,2021





818 Soundside Road

Job	Truss	Truss Type	Qty	Ply	Lot 2 Walker Rd.
J0321-1693	V3	VALLEY	1	1	E16497608
00021 1000	V3	VALLE		·	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:06 2021 Page 1 ID:1GKHPptsUBRSV9DyCFb7Gmz8LdV-iWD_CaJU2E782j?NecFOrWxYJEdJwZ4f7syxoxy66q7

6-6-2 6-6-2 6-6-2

> Scale = 1:41.6 4x4 =

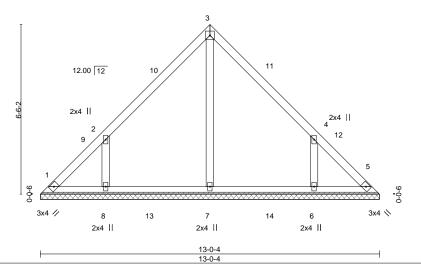


Plate Offsets (X,Y)--[4:0-0-0,0-0-0] LOADING (psf) SPACING-CSI. DEFL. **PLATES GRIP** 2-0-0 I/defI L/d 244/190 **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.14 Vert(LL) n/a n/a 999 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.15 Vert(CT) n/a 999 n/a 0.09 **BCLL** 0.0 Rep Stress Incr YES WB Horz(CT) 0.00 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 60 lb FT = 20%

LUMBER-

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

2x4 SP No.2 OTHERS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD**

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

REACTIONS. All bearings 13-0-4

(lb) - Max Horz 1=-148(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-163(LC 12), 6=-162(LC 13)

All reactions 250 lb or less at joint(s) 1, 5 except 7=384(LC 19), 8=374(LC 19), 6=374(LC 20)

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

WEBS 2-8=-358/290, 4-6=-358/290

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) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 6-6-2, Exterior(2) 6-6-2 to 10-10-15, Interior(1) 10-10-15 to 12-8-0 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, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=163, 6=162,
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 23,2021



Job	Truss	Truss Type	Qty	Ply	Lot 2 Walker Rd.	F.10.10=000
J0321-1693	V4	VALLEY	1	1		E16497609
					Job Reference (optional)	
Comtech, Inc,	Fayetteville, NC - 28314,		ID 40KUD-1-UDD	8.430 s Aug	16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:	10 2021 Page 1
		5-4-2	ID:1GKHPptsUBR	3V9DyCFb70 -10-8	Gmz8LdV-aHTU2xM_6SdaXKJ8tSKK0M6C8r_gsM/ 4	AF2Uw8xjy66q3
		5-4-2 5-4-2		10-8- 5-4-2	2	
						Scale = 1:34.2
			4x4 =			Ocale = 1.54.2
	т		2			
			7			
		6			8	
		12.00 12				
		12.00 12				
	2.4					
	5.4					
		//				
		5			3	
		. '/				
		*		*******	* * * * * * * * * * * * * * * * * * * *	
		3x4 //	4		3x4 📏	
			4 2x4		SAT (
			207 11			
			10-8-4			

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

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

20.0

10.0

0.0

BRACING-

10-8-4

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

in (loc)

n/a

n/a

0.00

I/defI

n/a

n/a

n/a

3

L/d

999

999

n/a

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

PLATES

Weight: 44 lb

MT20

GRIP

244/190

FT = 20%

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

REACTIONS. (size) 1=10-8-4, 3=10-8-4, 4=10-8-4

Max Horz 1=-120(LC 8)

Max Uplift 1=-30(LC 13), 3=-30(LC 13)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

Max Grav 1=226(LC 1), 3=226(LC 1), 4=346(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) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 5-4-2, Exterior(2) 5-4-2 to 9-8-15, Interior(1) 9-8-15 to 10-4-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

CSI.

TC

ВС

WB

Matrix-S

0.28

0.19

0.08

- 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.

2-0-0

1.15

1.15

YES

- 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) 1, 3.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 23,2021





818 Soundside Road

Job	Truss	Truss Type	Qty	Ply	Lot 2 Walker Rd.		E16497610
J0321-1693	V5	VALLEY	1	1	lah Dafasanaa (antion	al)	E10497610
Comtech, Inc, Fay	etteville, NC - 28314,	4-2-2 4-2-2		.430 s Aug		ai) es, Inc. Thu Dec 23 10:04:11 ilR8UuKRArZYaeOJFL6bq9O	
		4-2-2	4x4 =	4-2-2			Scale = 1:28.2
	0.0-6	12.00 12	2		3	9-0-0	
	:	3x4 //	4 2x4		3x4 📏		
			8-4-4 8-4-4		+		
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0 Plate Grip DOL 1. Lumber DOL 1. Rep Stress Incr YE Code IRC2015/TPI201	15 TC 0.25 15 BC 0.11 ES WB 0.04	DEFL. i Vert(LL) n/. Vert(CT) n/. Horz(CT) 0.00	a - a -	l/defl L/d n/a 999 n/a 999 n/a n/a	PLATES GRIP MT20 244/1 Weight: 34 lb FT	

LUMBER-

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

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.

REACTIONS. (size) 1=8-4-4, 3=8-4-4, 4=8-4-4 Max Horz 1=92(LC 9)

Max Uplift 1=-33(LC 13), 3=-33(LC 13)

Max Grav 1=186(LC 1), 3=186(LC 1), 4=239(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) 1, 3.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 23,2021





Job	Truss	Truss Type	Qty	Ply	Lot 2 Walker Rd.	F.10.10=0.11
J0321-1693	V6	VALLEY	1	1	Job Reference (option	E16497611
Comtech, Inc,	Fayetteville, NC - 28314,	3-0-2	ID:1GKHPptsUB	RSV9DyCFb 6-0-4	g 16 2021 MiTek Industri	tes, Inc. Thu Dec 23 10:04:12 2021 Page 1 4tImeTX?tMo5nBb8fiCKHkXWoPF?by66q1
		3-0-2	4x4 =	3-0-2	·	Scale = 1:20.
	30.2	12.00 \(\bar{12} \)	2		3	0.0°6
		3x4 //	4 2x4		3x4 📏	
			6-0-4 6-0-4			

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

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

20.0

10.0

0.0

BRACING-

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

TOP CHORD BOT CHORD

in (loc)

n/a

n/a

0.00

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

PLATES

Weight: 24 lb

MT20

GRIP

244/190

FT = 20%

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

L/d

999

999

n/a

I/defl

n/a

n/a

n/a

3

REACTIONS. (size) 1=6-0-4, 3=6-0-4, 4=6-0-4 Max Horz 1=64(LC 9)

Max Uplift 1=-23(LC 13), 3=-23(LC 13)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

Max Grav 1=129(LC 1), 3=130(LC 1), 4=166(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

CSI.

TC

ВС

WB

0.12

0.05

0.02

- 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.

2-0-0

1.15

1.15

YES

- 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) 1, 3.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 23,2021





Job Truss Truss Type Qty Ply Lot 2 Walker Rd. F16497612 J0321-1693 V7 VALLEY Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:13 2021 Page 1 Comtech, Inc. Fayetteville, NC - 28314, $ID: 1GKHPpts UBRSV9Dy C\tilde{\textit{F}b7}Gmz8LdV-?s8dgzPtPN?9On2jZat1e?knA32?3k7hkS9pY1y66q0\\$ 1-10-2 1-10-2 1-10-2 4x4 = Scale: 1"=1' 12.00 12 3 9-0-0 9-0-0 3x4 // 2x4 || 3x4 📏 3-8-4 LOADING (psf) SPACING-2-0-0 CSI. DEFL. **PLATES** GRIP in (loc) I/defl L/d Plate Grip DOL TC Vert(LL) 244/190 **TCLL** 20.0 1.15 0.03 n/a 999 MT20 n/a **TCDL** 10.0 Lumber DOL 1.15 вс 0.02 Vert(CT) n/a n/a 999 WB **BCLL** 0.0 Rep Stress Incr YES 0.01 Horz(CT) 0.00 3 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-P Weight: 14 lb FT = 20%

LUMBER-

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

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 3-8-4 oc purlins.

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

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

Max Horz 1=-36(LC 8)

Max Uplift 1=-13(LC 13), 3=-13(LC 13)

Max Grav 1=73(LC 1), 3=73(LC 1), 4=93(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) 1, 3.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 23,2021



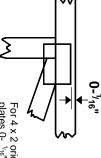


Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Apply plates to both sides of truss Dimensions are in ft-in-sixteenths.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss

ω

O

S

required direction of slots in This symbol indicates the

connector plates

* Plate location details available in MiTek 20/20 software or upon request

PLATE SIZE



to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



output. Use T or I bracing Indicated by symbol shown and/or if indicated. by text in the bracing section of the

BEARING



number where bearings occur.

Min size shown is for crushing only Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint

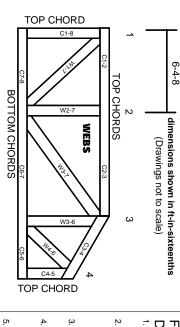
Industry Standards:

ANSI/TPI1: National Design Specification for Metal

DSB-89:

Installing & Bracing of Metal Plate Connected Wood Trusses. Plate Connected Wood Truss Construction. Guide to Good Practice for Handling, Building Component Safety Information Design Standard for Bracing

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

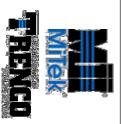
ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

truss unless otherwise shown. Trusses are designed for wind loads in the plane of the

section 6.3 These truss designs rely on lumber values established by others. Lumber design values are in accordance with ANSI/TPI 1

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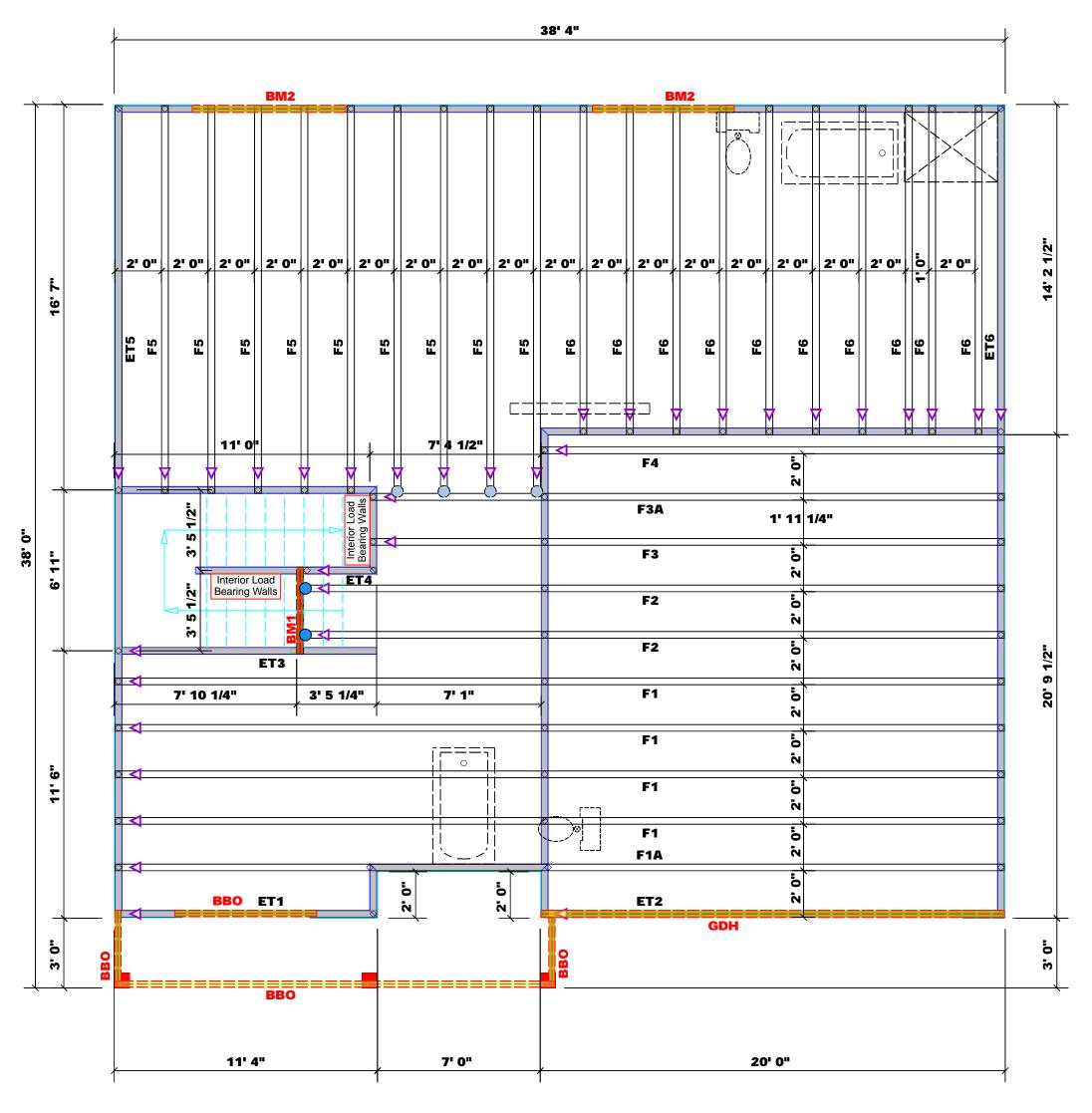


MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection. esponsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.



Products PlotID Length Product Plies Net Qty Fab Type BM1 4' 0" 1-3/4"x 16" LVL Kerto-S BM2 7' 0" 1-3/4"x 9-1/4" LVL Kerto-S 2 4 GDH 20' 0" 1-3/4"x 18" LVL Kerto-S

Truss Placement Plan Scale: 1/4"=1" All Walls Shown Are Considered Load Bearing

Dimension Notes
. All exterior wall to wall dimensions are to
ace of sheathing unless noted otherwise
2. All interior wall dimensions are to face of
rame wall unless noted otherwise
B. All exterior wall to truss dimensions are to
ace of frame wall unless noted otherwise

	Conne	Nail Info	ormation			
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
\bigcirc	MSH422	USP	4	Varies	10d/3"	10d/3"
	HUS410	USP	2	NA	16d/3-1/2"	16d/3-1/2"

Plumbing Drop Notes I. Plumbing drop locations shown are NOT exact. 2. Contractor to verify ALL plumbing drop locations prior to setting Floor Trusses. 3. Adjust spacing as needed not to exceed 24"oc.

> ▲= Indicates Left End of Truss (Reference Engineered Truss Drawing) **Do NOT Erect Truss Backwards**

соттесн **ROOF & FLOOR** TRUSSES & BEAMS

Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444

David Landry

David Landry

LO	AD (CHAR	T FO	R JA	CK STUD	s
	(8	ASED C	N TABLE:	5 R502.5	(t) & (b))	
NU	WBER C		STUDS R NESDABH		b e ea end of	
ENB REACHON (UP 10)	REQ10 STUDS FOR (2) PLY HEADER		END REACTION (UP TD)	REQ16 STUBS FOR (3) ALY HEADER	END REACTION (UP TO)	REO'D STUINS FOR
1700	1		2550	1	3400	
3400	2		5100	2	6800	

END REACTION (UP 10)	REQ'O STUDS FO (2) PLY HEADER	END REACTION LP TO) RPQ 'b STUTS FO (3) ALY JEADER	END REACTION (UP TO)
1700	1	2550 1	3400
3400	2	5100 2	6800
5100	3	7650 3	10200
6800	4	10200 4	13600
8500	5	12750 5	17000
10200	6	15300 6	
11900	7		
13600	8		
15300	۵		

JILDER	Ben Stout Real Estate	CITY / CO.	CITY / CO. Linden / Harnett	11900 13600 15300
OB NAME	OB NAME Lot 2 Walker Rd.	ADDRESS	740 Walker Road	7 8 9
AN	Cypress	MODEL	Floor	
EAL DATE N/A	N/A	DATE REV.	03/21/22	
UOTE #		DRAWN BY	David Landry	
)B #	J0321-1694	SALES REP.	SALES REP. Marshall Naylor	

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.

These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com



Client: Benjamin Stout Real Estate

Project: Address:

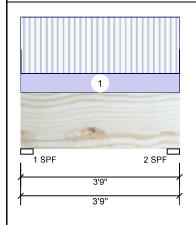
740 Walker Road Linden, NC 28356

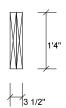
3/21/2022 Date:

Input by: David Landry Job Name: Lot 2 Walker Rd. J0321-1694 Project #:

2-Ply - PASSED **Kerto-S LVL** 1.750" X 16.000" BM1

Level: Level





Page 1 of 5

Member Infor	mation			Reactio	ns UNPAI	IEKNED	ib (Uplift))		
Туре:	Girder	Application:	Floor	Brg	Live	Dead	Snow	١	/ Vind	Const
Plies:	2	Design Method:	ASD	1	345	140	0		0	0
Moisture Conditio	n: Dry	Building Code:	IBC/IRC 2015	2	345	140	0		0	0
Deflection LL:	480	Load Sharing:	No							
Deflection TL:	240	Deck:	Not Checked							
Importance:	Normal									
Temperature:	Temp <= 100°F									
				Bearing	js					
				Bearing	Length	Cap. Re	eact D/L lb	Total	Ld. Case	Ld. Comb.
				1 - SPF	3.500"	9%	140 / 345	485	L	D+L
				2 - SPF	3.500"	9%	140 / 345	485	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	354 ft-lb	1'10 1/2"	34565 ft-lb	0.010 (1%)	D+L	L
Unbraced	354 ft-lb	1'10 1/2"	29105 ft-lb	0.012 (1%)	D+L	L
Shear	411 lb	2'2 3/8"	11947 lb	0.034 (3%)	D+L	L
LL Defl inch	0.001 (L/54618)	1'10 1/2"	0.083 (L/480)	0.010 (1%)	L	L
TL Defl inch	0.001 (L/38886)	1'10 1/2"	0.166 (L/240)	0.010 (1%)	D+L	L

Design Notes

- 1 Girders are designed to be supported on the bottom edge only.
- 2 Multiple plies must be fastened together as per manufacturer's details.
- 3 Top braced at bearings.
- 4 Bottom braced at bearings.
- 5 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Near Face	62 PLF	184 PLF	0 PLF	0 PLF	0 PLF	F2
	Self Weight				12 PLF					

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown, It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

chemicals Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastering details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/24/2023

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us ICC-ES: ESR-3633

Manufacturer Info

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS







Client: Benjamin Stout Real Estate

Project:

Address: 740 Walker Road Linden, NC 28356

3/21/2022 Date: Input by: David Landry

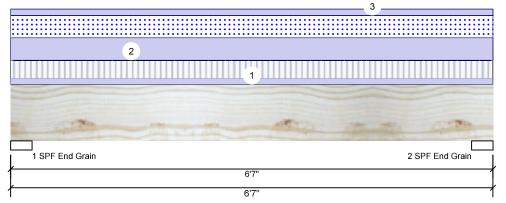
Job Name: Lot 2 Walker Rd. J0321-1694 Project #:

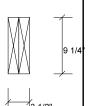
Kerto-S LVL BM2

1.750" X 9.250"

2-Ply - PASSED

Level: Level





D+0.75(L+S)

Page 2 of 5

Member Inform	nation
Туре:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	240
Importance:	Normal
Temperature:	Temp <= 100°F
I	

Floor Application: Design Method: ASD **Building Code:** IBC/IRC 2015 Load Sharing: No Deck: Not Checked

Reactions UNPATTERNED lb (Uplift) Wind Brg Live Dead Snow Const 1109 2160 1369 0 0 1 1109 2160 1369 0 0 2

Bearings

End Grain

2 - SPF 3.500"

Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.500" 38% 2160 / 1859 4019 L D+0.75(L+S) End Grain

4019 L

38% 2160 / 1859

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5726 ft-lb	3'3 1/2"	14423 ft-lb	0.397 (40%)	D+0.75(L+S)	L
Unbraced	5726 ft-lb	3'3 1/2"	10451 ft-lb	0.548 (55%)	D+0.75(L+S)	L
Shear	2798 lb	1'	79 4 3 lb	0.352 (35%)	D+0.75(L+S)	L
LL Defl inch	0.048 (L/1526)	3'3 1/2"	0.153 (L/480)	0.310 (31%)	0.75(L+S)	L
TL Defl inch	0.104 (L/706)	3'3 1/2"	0.306 (L/240)	0.340 (34%)	D+0.75(L+S)	L

Design Notes

- 1 Girders are designed to be supported on the bottom edge only.
- 2 Multiple plies must be fastened together as per manufacturer's details.

o top todas must be supported equally by all plies.	
4 Top braced at bearings.	
5 Bottom braced at bearings.	
6 Lateral slenderness ratio based on single ply width.	

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Тор	113 PLF	337 PLF	0 PLF	0 PLF	0 PLF	F5
2	Uniform			Тор	416 PLF	0 PLF	416 PLF	0 PLF	0 PLF	A2
3	Uniform			Тор	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall
	Self Weight				7 PLF					

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown, It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

chemicals Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastering details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

This design is valid until 4/24/2023

6. For flat roofs provide proper drainage to prevent ponding

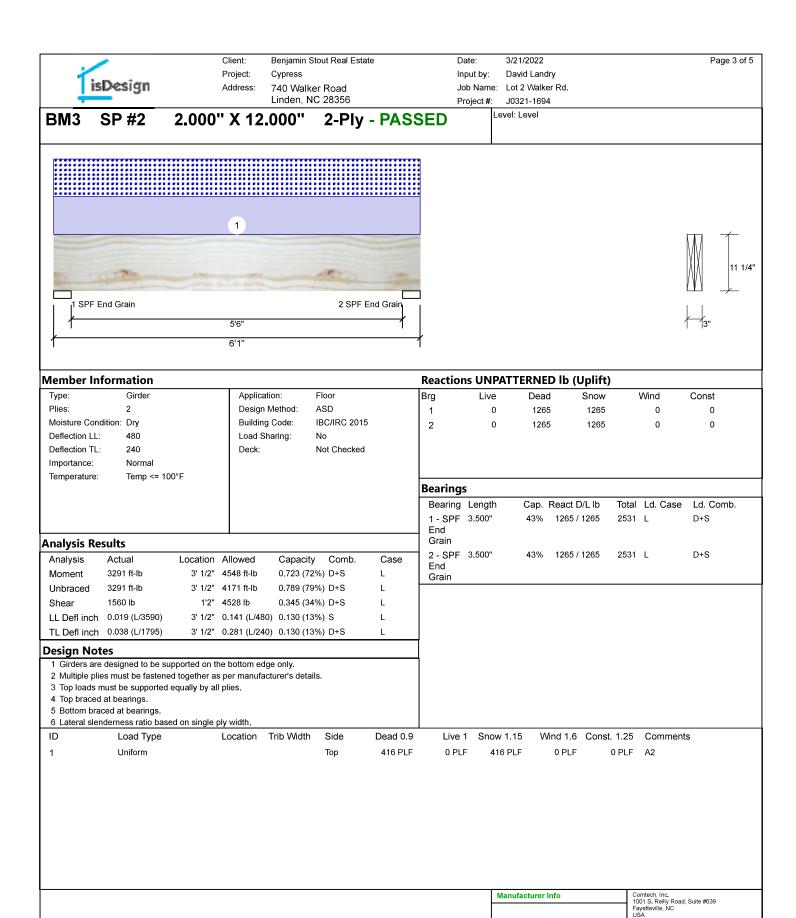
Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us ICC-ES: ESR-3633

Manufacturer Info

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS







This design is valid until 4/24/2023

соттесн

28314 910-864-TRUS



Client: Benjamin Stout Real Estate

Project:

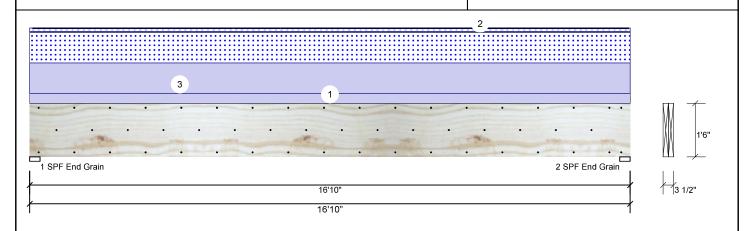
Address: 740 Walker Road Linden, NC 28356

3/21/2022 Date: Input by: David Landry

Job Name: Lot 2 Walker Rd. J0321-1694 Project #:

1.750" X 18.000" **Kerto-S LVL** 2-Ply - PASSED **GDH**

Level: Level



Member Infor	mation			Reactio	Reactions UNPATTERNED lb			
Type:	Girder	Application:	Floor	Brg	Live	Dead		
Plies:	2	Design Method:	ASD	1	337	4309		
Moisture Condition	n: Dry	Building Code:	IBC/IRC 2015	2	337	4309		
Deflection LL:	480	Load Sharing:	No					
Deflection TL:	360	Deck:	Not Checked					
Importance:	Normal	Ceiling:	Gypsum 1/2"					
Temperature:	Temp <= 100°F							
				Doorin.	~~			

Ana	lvsis	Results
<i>_</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	., 5.5	itcsa.ts

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	29403 ft-lb	8'5"	49428 ft-lb	0.595 (59%)	D+S	L
Unbraced	29403 ft-lb	8'5"	29453 ft-lb	0.998 (100%)	D+S	L
Shear	5861 lb	1'8 5/8"	15456 lb	0.379 (38%)	D+S	L
LL Defl inch	0.196 (L/1005)	8'5 1/16"	0.410 (L/480)	0.480 (48%)	S	L
TL Defl inch	0.472 (L/417)	8'5 1/16"	0.547 (L/360)	0.860 (86%)	D+S	L

- **Design Notes** 1 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at a maximum of 4'4 1/8" o.c.
- 6 Lateral slenderness ratio based on single ply width.

Self Weight

Reactions	UNPATTERNED	lb	(U	plift)
-----------	-------------	----	----	--------

Brg	Live	Dead	Snow	Wind	Const
1	337	4309	3055	0	0
2	337	4309	3055	0	0

Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	69%	4309 / 3055	7365	L	D+S
2 - SPF End Grain	3.500"	69%	4309 / 3055	7365	L	D+S

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Тор	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall
2	Tie-In	0-0-0 to 16-10-0	1-0-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	Floor
3	Uniform			Тор	363 PLF	0 PLF	363 PLF	0 PLF	0 PLF	A1

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

chemicals Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastering details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/24/2023

14 PLF

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Manufacturer Info

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS



Page 4 of 5



CSD |

isDesign

Client: Benjamin Stout Real Estate

Project:

Address: 740 Walker Road

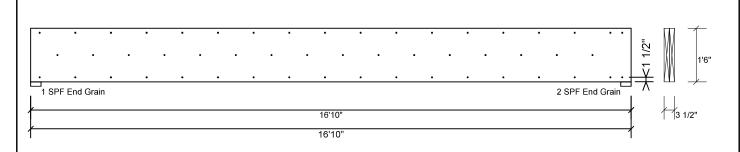
Linden, NC 28356

3/21/2022 Date: Input by: David Landry

Job Name: Lot 2 Walker Rd. J0321-1694 Project #:

Kerto-S LVL 1.750" X 18.000" 2-Ply - PASSED **GDH**

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6"

Capacity 0.0 % 0.0 PLF Load Yield Limit per Foot 245.6 PLF Yield Limit per Fastener 81.9 lb. IV Yield Mode Edge Distance 1 1/2" Min. End Distance 3" Load Combination Duration Factor 1.00

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

Handling & Installation

1. IVL beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastering details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/24/2023



Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us ICC-ES: ESR-3633

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS



Page 5 of 5





RE: J0321-1694 Lot 2 Walker Rd. **Trenco** 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Benjamin Stout Real Estate Project Name: J0321-1694 Lot/Block: 2 Model: Cypress

Address: 740 Walker Road Subdivision: Walker Rd.

State: NC City: Linden

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.3

Wind Code: N/A Wind Speed: N/A mph Roof Load: N/A psf Floor Load: 55.0 psf

This package includes 14 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	E16497613	ET1	12/23/2021
2	E16497614	ET2	12/23/2021
3	E16497615	ET3	12/23/2021
4	E16497616	ET4	12/23/2021
5	E16497617	ET5	12/23/2021
6	E16497618	ET6	12/23/2021
7	E16497619	F1	12/23/2021
8	E16497620	F1A	12/23/2021
9	E16497621	F2	12/23/2021
10	E16497622	F3	12/23/2021
11	E16497623	F3A	12/23/2021
12	E16497624	F4	12/23/2021
13	E16497625	F5	12/23/2021
14	E16497626	F6	12/23/2021

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision

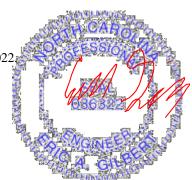
based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2022

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.



December 23, 2021

Job	Truss	Truss Type	Qty	Ply	Lot 2 Walker Rd.
10004 4004	FT4	CARLE			E16497613
J0321-1694	EII	GABLE	1	1	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

0118

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:24 2021 Page 1 $ID:1GKHPptsUBRSV9Dy \overset{\circ}{C}Fb7Gmz8LdV-iGkzzM1frJKJM1aSZerbvZhesUoo8jQIGfJuPvy66pr$

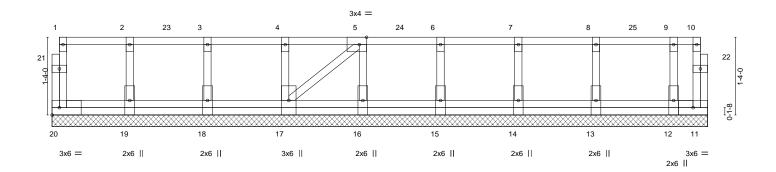
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

0,1,8

Scale = 1:18.6



	1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	11-3-0
	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-7-0
Plate Offs	sets (X,Y) [5:0-1-8,Edge]							
LOADING TCLL TCDL BCLL	(psf) 40.0 10.0 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.00 1.00 YES	CSI. TC 0.07 BC 0.00 WB 0.03	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) l/de n/a - n/ n/a - n/ 0.00 17 n/	a 999 a 999	PLATES MT20	GRIP 244/190
BCDL	5.0	Code IRC2015/	ΓPI2014	Matrix-S				Weight: 69 lb	FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1(flat)

BOT CHORD 2x4 SP No.1(flat) 2x4 SP No.3(flat) WFBS

OTHERS

2x4 SP No.3(flat)

REACTIONS. All bearings 11-3-0.

Max Uplift All uplift 100 lb or less at joint(s) 11

Max Grav All reactions 250 lb or less at joint(s) 20, 19, 18, 17, 16, 15, 14, 13, 12

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

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11.
- 7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

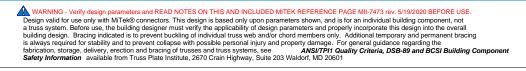
Vert: 11-20=-10, 1-10=-100

Concentrated Loads (lb)

Vert: 4=-26 7=-26 23=-26 24=-26 25=-26



December 23,2021





Job	Truss	Truss Type	Qty	Ply	Lot 2 Walker Rd.
J0321-1694	ET2	GABLE	1	1	E16497614
			-		Job Reference (ontional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:25 2021 Page 1 ID:1GKHPptsUBRSV9DyCFb7Gmz8LdV-ASILAi2HcdSA_B9f7MMqSmDqnu8ztAiSVJ3RyLy66pq

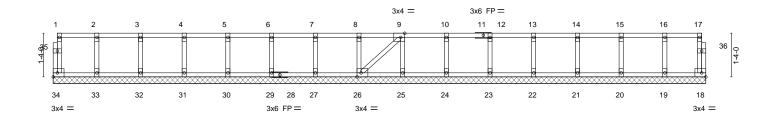
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

0-11-8 0-1-8

Scale = 1:33.1



—		2-8-0 4-0-0 5-4- -4-0 1-4-0 1-4-		8-0-0 9-4-		12-0-0 1-4-0 1-4-0			
Plate Offs		[9:0-1-8,Edge], [26:0-1-8		1-4-0 1-4-	7 1-4-0	1-4-0	1-4-0	1-4-0 1-4	-0 1-3-0
LOADING TCLL TCDL	(psf) 40.0 10.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.00 1.00	CSI. TC 0.06 BC 0.01	DEFL. Vert(LL Vert(CT		n/a 999	PLATES MT20	GRIP 244/190
BCLL BCDL	0.0 5.0	Rep Stress Incr Code IRC2015/TF	YES	WB 0.03 Matrix-S	Horz(C	,		Weight: 90 lb	FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No.1(flat)

BOT CHORD 2x4 SP No.1(flat) 2x4 SP No.3(flat) WFBS

2x4 SP No.3(flat) OTHERS

REACTIONS. All bearings 19-11-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 34, 18, 33, 32, 31, 30, 29, 27, 26, 25, 24, 23, 22, 21, 20,

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

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



December 23,2021





Job	Truss	Truss Type	Qty	Ply	Lot 2 Walker Rd.
10004 4004	ETO	CARLE			E16497615
J0321-1694	E13	GABLE	1	1	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

0-1-8

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:26 2021 Page 1 ID:1GKHPptsUBRSV9DyCFb7Gmz8LdV-efskO23wNxa1cKkrg3t3_m?XIUCcdybkzo?Uny66pp

6-8-0

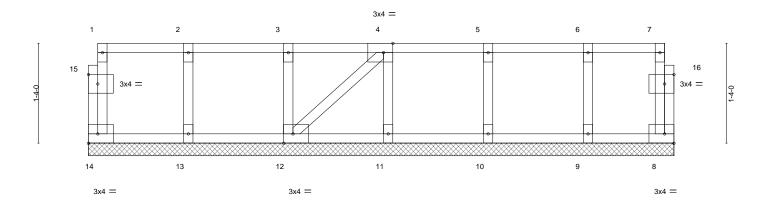
except end verticals.

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

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

0<u>-1-</u>8

Scale = 1:14.5



	- 1	1-4-0	2-0-0	4-0-0	1	3-4-0	1	0-0-0	1-9-12	1	
		1-4-0	1-4-0	1-4-0		1-4-0		1-4-0	1-1-12	2	
Plate Offs	Plate Offsets (X,Y) [4:0-1-8,Edge], [12:0-1-8,Edge], [15:0-1-8,0-1-8]										
LOADING TCLL TCDL BCLL	(psf) 40.0 10.0 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Inci	1.00	CSI. TC 0.06 BC 0.01 WB 0.03	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (lo n/a n/a 0.00	oc) l/defl - n/a - n/a 8 n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190	
BCDL	5.0	Code IRC2015	5/TPI2014	Matrix-P					Weight: 39 lb	FT = 20%F, 11%E	

BRACING-

TOP CHORD

BOT CHORD

5-4-0

4-0-0

LUMBER-

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat)

WEBS 2x4 SP No.3(flat)

OTHERS 2x4 SP No.3(flat)

REACTIONS. All bearings 7-9-12.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

2-8-0

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

NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.

1-4-0

- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



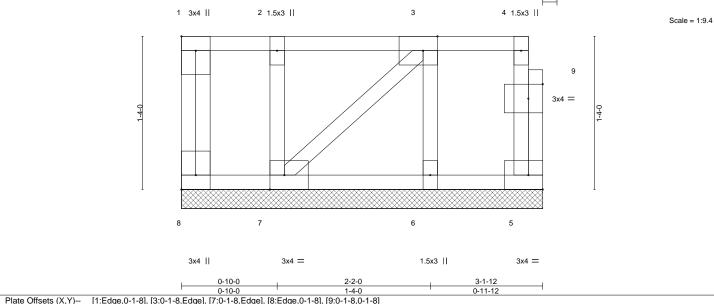
7-0-12

December 23,2021





Job	Truss	Truss Type	Qty	Ply	Lot 2 Walker Rd.
					E16497616
J0321-1694	ET4	GABLE	1	1	
					Job Reference (optional)
Comtech, Inc, Fayettev	16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:26 2021 Page 1				
		ID:1GKH	PptsUBR9	SV9DyCFb	7Gmz8LdV-efskO23wNxa1cKkrg3t3m?hIUDcd0bkzo?Uny66pp
			3x4	=	Q-1-8



· · · · · · · · · · · · · · · · · · ·									
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL 1.00	TC 0.05	Vert(LL)	n/a -	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.01	Vert(CT)	n/a -	n/a	999		
BCLL	0.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0	0.00 5	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI2014	Matrix-P					Weight: 21 lb	FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No.1(flat)

BOT CHORD 2x4 SP No.1(flat) 2x4 SP No.3(flat) WFBS

2x4 SP No.3(flat) OTHERS

REACTIONS.

ONS. All bearings 3-1-12. (lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

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

NOTES-

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 2) Gable requires continuous bottom chord bearing.
 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.



Structural wood sheathing directly applied or 3-1-12 oc purlins,

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

except end verticals.

December 23,2021





Job	Truss	Truss Type	Qty	Ply	Lot 2 Walker Rd.
10221 1604	ETE	GABLE	1	,	E16497617
J0321-1694	E13	GABLE	'	'	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

0-11-8

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:27 2021 Page 1

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

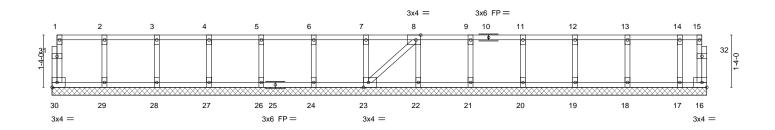
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

ID:1GKHPptsUBRSV9DyCFb7Gmz8LdV-6rQ6bN3Y8EiuDUJ1EnOIXBJAFiqRL3ClydYY0Dy66po

0-<u>1-</u>8

Scale = 1:27.6



1-4-0	2-8-0 4-0-0 5-4-0	6-8-0 8-0-0	9-4-0 10-8	-0 12-0-0	13-4-0	14-8-0 1	6-0-0 16-8-4
1-4-0	1-4-0 1-4-0 1-4-0	1-4-0 1-4-0	1-4-0 1-4-	0 1-4-0	1-4-0	1-4-0	1-4-0 0-8-4
Plate Offsets (X,Y)	[8:0-1-8,Edge], [23:0-1-8,Edge]						
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	CSI. TC 0.06 BC 0.01 WB 0.03	DEFL. ii Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	a - n/a a - n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S	11012(01) 0.00) 10 11/a	II/a	Weight: 77 lb	FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1(flat)

2x4 SP No.1(flat) BOT CHORD 2x4 SP No.3(flat) WFBS

2x4 SP No.3(flat) OTHERS

REACTIONS. All bearings 16-8-4.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 30, 16, 29, 28, 27, 26, 24, 23, 22, 21, 20, 19, 18, 17

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

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



December 23,2021





Job	Truss	Truss Type	Qty	Ply	Lot 2 Walker Rd.
10004 4004	FTO	CARLE			E16497618
J0321-1694	EID	GABLE	1	1	Job Reference (optional)

0118

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:27 2021 Page 1 ID:1GKHPptsUBRSV9DyCFb7Gmz8LdV-6rQ6bN3Y8EiuDUJ1EnOIXBJAFiqRL3ClydYY0Dy66po

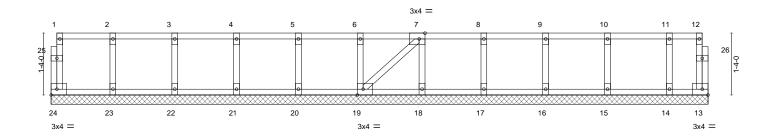
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

0118

Scale = 1:23.4



	1-4-0	2-8-0 4-	0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0 1 13-	4-0 14-2-0
	1-4-0	1-4-0 1-4	4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0 1-4	I-0 0-10-0
Plate Of	fsets (X,Y)	[7:0-1-8,Edge], [19:0-1-	8,Edge]							
LOADIN TCLL	40.Ó	SPACING- Plate Grip DOL	2-0-0 1.00	CSI.	0.06	DEFL. Vert(LL)	in (loc) n/a -	l/defl L/d n/a 999	PLATES MT20	GRIP 244/190
TCDL BCLL	10.0 0.0	Lumber DOL Rep Stress Incr	1.00 YES	BC WB	0.01 0.03	Vert(CT) Horz(CT)	n/a - 0.00 13	n/a 999 n/a n/a		
BCDL	5.0	Code IRC2015/7	TPI2014	Matri	ix-S	, ,			Weight: 66 II	FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1(flat)

BOT CHORD 2x4 SP No.1(flat) 2x4 SP No.3(flat) WFBS

2x4 SP No.3(flat) OTHERS

REACTIONS. All bearings 14-2-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

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

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



December 23,2021





Job	Truss	Truss Type	Qty	Ply	Lot 2 Walker Rd.	
J0321-1694	F1	Floor	4	1	E16497619	1
					LJob Reference (optional)	

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:29 2021 Page 1 ID:1GKHPptsUBRSV9DyCFb7Gmz8LdV-3EXs035ogsycToTQMCRmccOlkVJJpo92Qx1f56y66pm

Structural wood sheathing directly applied or 2-2-0 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

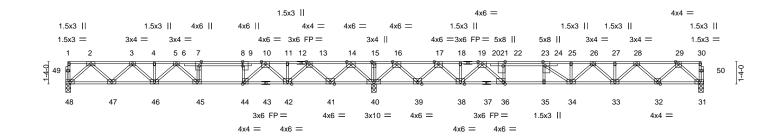
except end verticals.

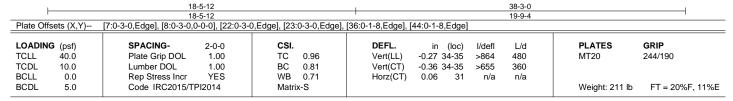
0-1-8

HI 1-3-0 2-5-12

2-3-4 1-6-0

0-1-8 Scale = 1:65.1





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat)

2x4 SP No.3(flat) WFBS

REACTIONS. (size) 48=0-3-8, 40=0-3-8, 31=0-3-8

Max Grav 48=871(LC 3), 40=2516(LC 1), 31=936(LC 4)

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

TOP CHORD 2-3=-1560/0, 3-4=-2546/0, 4-5=-2546/0, 5-7=-2871/114, 7-8=-2871/105, 8-10=-2888/105, 10-11=-1673/754, 11-13=-1673/754, 13-14=-128/1407, 14-15=0/3309,

15-16=0/3309, 16-17=-64/1187, 17-18=-1767/545, 18-20=-1767/545, 20-22=-3258/0,

22-23=-3236/0, 23-25=-3338/0, 25-26=-3338/0, 26-27=-2818/0, 27-28=-2818/0,

28-29=-1704/0

BOT CHORD 47-48=0/939, 46-47=0/2157, 45-46=0/2787, 44-45=-105/2871, 42-44=-508/2171, 41-42=-1069/990, 40-41=-1989/0, 39-40=-1925/0, 38-39=-852/1004, 36-38=-294/2360,

35-36=0/3236, 34-35=0/3236, 33-34=0/3146, 32-33=0/2363, 31-32=0/1015

2-48=-1248/0, 2-47=0/864, 3-47=-830/0, 3-46=-14/529, 14-40=-1757/0, 14-41=0/1364,

13-41=-1322/0, 13-42=0/1058, 10-42=-801/0, 10-44=0/1338, 5-46=-328/67,

5-45=-530/142, 7-45=-88/295, 8-44=-798/0, 29-31=-1348/0, 29-32=0/959, 28-32=-916/0,

28-33=0/619, 26-33=-445/18, 26-34=-20/262, 16-40=-1842/0, 16-39=0/1446,

17-39=-1403/0, 17-38=0/1136, 20-38=-907/0, 20-36=0/1484, 22-36=-884/0,

25-34=-351/0, 23-34=-99/656

NOTES-

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x6 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.



December 23,2021





Job	Truss	Truss Type	Qty	Ply	Lot 2 Walker Rd.
J0321-1694	F1A	Floor	1	1	E16497620
30321-1094	FIA	Floor	'	'	Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:31 2021 Page 1 ID:1GKHPptsUBRSV9DyCFb7Gmz8LdV-?cfdRI72CTCJi6doTcTEh1Th7J0hHjGKtFWm9?y66pk

0-1-8

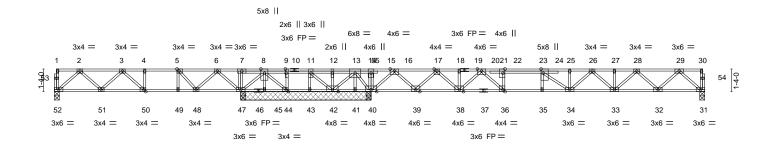
HI 1-3-0

1-10-0 1-0-0

1-2-8 1-2-8 1-2-8 1-2-8 1-2-8 0-9-0

2-1-8 1-6-0

0-1-8 Scale: 3/16"=1



	10-11-0	14-9-0	10-7-0	1	30-3-0		
	10-11-8	3-10-0	3-10-0		19-7-8		
Plate Offsets (X,Y)	[5:0-1-8,Edge], [9:0-3-0,Edge], [22	2:0-3-0,Edge], [23:0)-3-0,Edge], [36	6:0-1-8,Edge], [44:0-1-8,Edge],	[50:0-1-8,Edge]		
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	BC	0.71 0.75 0.67	DEFL. in (loc) Vert(LL) -0.23 34-35 Vert(CT) -0.31 34-35 Horz(CT) 0.04 31	l/defl L/d >999 480 >746 360 n/a n/a	PLATES MT20 Weight: 221 lb	GRIP 244/190 FT = 20%F, 11%E

TOP CHORD 2x4 SP No.1(flat) 2x4 SP No.1(flat)

BOT CHORD

LUMBER-

2x4 SP No.3(flat) WFBS

BRACING-

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

except end verticals

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 7-8-0 except (jt=length) 52=0-3-8, 31=0-3-8.

Max Uplift All uplift 100 lb or less at joint(s) except 41=-793(LC 4), 42=-419(LC 4), 43=-275(LC 4)

Max Grav All reactions 250 lb or less at joint(s) 42, 43, 45 except 52=560(LC 3), 47=830(LC 3), 47=764(LC 1),

40=3094(LC 7), 40=3081(LC 1), 44=399(LC 7), 31=878(LC 4)

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

TOP CHORD 2-3=-901/0, 3-4=-1142/0, 4-5=-1142/0, 5-6=-768/0, 6-7=-96/503, 7-8=-106/487,

 $8-9=0/380,\ 9-11=0/380,\ 11-12=0/792,\ 12-13=0/792,\ 13-14=0/3016,\ 14-16=0/3018,$

 $16\text{-}17\text{=}0/638,\ 17\text{-}18\text{=}\text{-}1159/0,\ 18\text{-}20\text{=}\text{-}1159/0,\ 20\text{-}22\text{=}\text{-}2752/0,\ 22\text{-}23\text{=}\text{-}2728/0,\ 22\text{-}23\text{-}2728/0,\ 22\text{-}23\text{-}23\text{-}2728/0,\ 22\text{-}23\text{-}2$ 23-25=-2972/0, 25-26=-2972/0, 26-27=-2570/0, 27-28=-2570/0, 28-29=-1579/0

51-52=0/591, 50-51=0/1157, 49-50=0/1142, 48-49=0/1142, 47-48=0/420, 45-47=-318/0,

44-45=-318/0, 43-44=-380/0, 42-43=-380/0, 41-42=-1769/0, 40-41=-1769/0,

39-40=-1647/0, 38-39=0/350, 36-38=0/1799, 35-36=0/2728, 34-35=0/2728, 33-34=0/2834,

32-33=0/2177, 31-32=0/949

WEBS 14-40=-299/0, 2-52=-784/0, 2-51=0/432, 3-51=-356/0, 6-47=-837/0, 6-48=0/551,

5-48=-571/0, 13-40=-1985/0, 13-41=0/771, 11-43=-60/286, 29-31=-1261/0, 29-32=0/876,

28-32=-833/0, 28-33=0/534, 26-33=-358/0, 16-40=-1830/0, 16-39=0/1403, 17-39=-1366/0, 17-38=0/1101, 20-38=-871/0, 20-36=0/1328, 22-36=-794/0, 25-34=-290/12, 23-34=-215/498, 13-42=0/1350, 8-44=-324/0, 11-42=-595/0

NOTES-

BOT CHORD

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 793 lb uplift at joint 41, 419 lb uplift at joint 42 and 275 lb uplift at joint 43.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 31-52=-10, 1-30=-100



December 23,2021

ameters 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 designs. 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 experts.

Starty Information

Ansity Prevent



Job	Truss	Truss Type	Qty	Ply	Lot 2 Walker Rd.
J0321-1694	E4 A	Floor	1	,	E16497620
30321-1094	FIA	Floor	'	'	Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:31 2021 Page 2 ID:1GKHPptsUBRSV9DyCFb7Gmz8LdV-?cfdRI72CTCJi6doTcTEh1Th7J0hHjGKtFWm9?y66pk

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 10=-69 12=-69 8=-69 55=-69

Job	Truss	Truss Type	Qty	Ply	Lot 2 Walker Rd.
J0321-1694	F2	Floor	2	1	E16497621
00021 1001		1.00.	_		Job Reference (optional)
Comptant Inc. Fountton	:II- NO 20244		0	120 - 1	40 2024 MiTals Industrian Inc. Thu Dec 22 40:04:22 2024 Dece 4

Fayetteville, NC - 28314,

2-3-0

1-3-0

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:04 $ID: 1GKHPpts UBRSV9DyCFb7Gmz8LdV-TpD?e57gynKAKFC? 1K_TEF0swjKN0B9U6vFJiRy66pj$

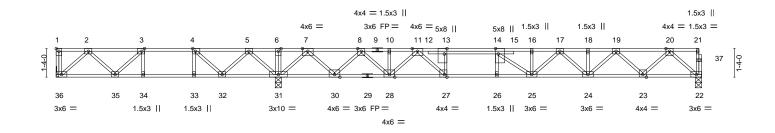
2-3-4 1-6-0

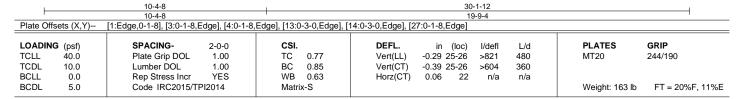
Structural wood sheathing directly applied or 5-10-1 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

Scale = 1:50.6





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD BOT CHORD 2x4 SP No.1(flat) 2x4 SP No.1(flat)

2x4 SP No.3(flat) WFBS

REACTIONS. (size) 36=Mechanical, 31=0-3-8, 22=0-3-8

Max Uplift 36=-26(LC 4)

Max Grav 36=490(LC 3), 31=1947(LC 1), 22=989(LC 7)

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

TOP CHORD 2-3=-721/150, 3-4=-860/441, 4-5=-419/882, 5-6=0/1852, 6-7=0/1852, 7-8=-806/0,

8-10=-2401/0, 10-11=-2401/0, 11-13=-3738/0, 13-14=-3719/0, 14-16=-3669/0,

16-17=-3669/0, 17-18=-3045/0, 18-19=-3045/0, 19-20=-1819/0 35-36=-18/514, 34-35=-441/860, 33-34=-441/860, 32-33=-441/860, 31-32=-1193/33,

BOT CHORD $30 - 31 = -576/0,\ 28 - 30 = 0/1695,\ 27 - 28 = 0/2937,\ 26 - 27 = 0/3719,\ 25 - 26 = 0/3719,\ 24 - 25 = 0/3432,$

23-24=0/2533, 22-23=0/1075

2-36=-685/24, 2-35=-183/287, 3-35=-189/395, 5-31=-990/0, 5-32=0/752, 4-32=-948/0, 4-33=0/301, 3-34=-264/0, 7-31=-1699/0, 7-30=0/1314, 8-30=-1280/0, 8-28=0/1005,

11-28=-774/0, 11-27=0/1261, 13-27=-758/0, 20-22=-1428/0, 20-23=0/1035,

19-23=-993/0, 19-24=0/697, 17-24=-526/0, 17-25=0/322, 16-25=-250/79,

14-25=-439/328

NOTES-

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 36.
 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.



December 23,2021



Job	Truss	Truss Type	Qty	Ply	Lot 2 Walker Rd.
10004 4004	E2	Flore			E16497622
J0321-1694	F3	Floor	1	1	Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:33 2021 Page 1 ID:1GKHPptsUBRSV9DyCFb7Gmz8LdV-x?nNsR8Jj4S1xPmBb1VimSZ_I7ghleUdLZ?sEty66pi

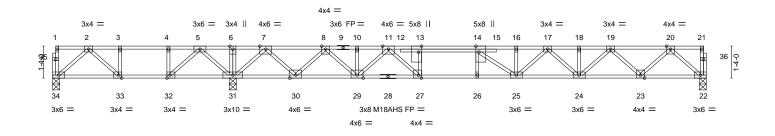
0-1-8





Structural wood sheathing directly applied or 5-9-9 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.



		7-0-4	1			21-3-0				
		7-6-4				19-9-4				·
Plate Offs	sets (X,Y)	[13:0-3-0,Edge], [14:0-3-0,Edg	e], [27:0-1-8,Edge],	?7:0-1-8,Edge], [32:0-1-8,Edge], [33:0-1-8,Edge]						
LOADING	3 (nof)	SPACING- 2-0	-0 CSI		DEFL.	in (loo)	I/dofl	l /d	PLATES	GRIP
	(1 -)		-			in (loc)	l/defl	L/d		
TCLL	40.0	Plate Grip DOL 1.0	00 TC	0.85	Vert(LL)	-0.29 25-26	>817	480	MT20	244/190
TCDL	10.0	Lumber DOL 1.0	00 BC	0.85	Vert(CT)	-0.39 25-26	>598	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr YE	S WB	0.62	Horz(CT)	0.06 22	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI201	4 Mat	rix-S	, ,				Weight: 149 lb	FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

27-3-8

except end verticals.

LUMBER-TOP CHORD 2x4 SP No.1(flat)

BOT CHORD 2x4 SP No.1(flat)

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 34=0-3-8, 31=0-3-8, 22=0-3-8

Max Uplift 34=-112(LC 4)

7-6-4

Max Grav 34=328(LC 3), 31=1806(LC 1), 22=996(LC 7)

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

TOP CHORD 2-3=-381/510, 3-4=-381/510, 4-5=-381/510, 5-6=0/1504, 6-7=0/1504, 7-8=-907/0,

8-10=-2479/0, 10-11=-2479/0, 11-13=-3798/0, 13-14=-3780/0, 14-16=-3711/0, 16-17=-3711/0, 17-18=-3074/0, 18-10=-3074/0, 10-20=-1833/0

16-17=-3711/0, 17-18=-3074/0, 18-19=-3074/0, 19-20=-1833/0

BOT CHORD 33-34=-159/298, 32-33=-510/381, 31-32=-1003/24, 29-30=0/1785, 27-29=0/3008, 26-27=0/3780, 25-26=0/3780, 24-25=0/3468, 23-24=0/2554, 22-23=0/1082

 $2 - 34 = -393/211, \ 2 - 33 = -476/113, \ 5 - 31 = -838/0, \ 5 - 32 = 0/903, \ 4 - 32 = -461/0, \ 7 - 31 = -1673/0, \ 7 - 31$

7-30=0/1302, 8-30=-1244/0, 8-29=0/966, 20-22=-1438/0, 20-23=0/1045, 19-23=-1002/0, 10-24, 0/306, 47-24, 536/0, 47-25, 0/320, 44-20, 740/0, 44-27, 0/320, 42-27, 738/0

 $19 - 24 = 0/706,\ 17 - 24 = -536/0,\ 17 - 25 = 0/330,\ 11 - 29 = -743/0,\ 11 - 27 = 0/1229,\ 13 - 27 = -738/0,$

14-25=-493/278

NOTES-

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 1.5x3 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 34.
 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.



December 23,2021

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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/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

Job	Truss	Truss Type	Qty	Ply	Lot 2 Walker Rd.
J0321-1694	F3A	Floor	1	1	E16497623
30321-1094	FSA	Floor	'	'	Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:34 2021 Page 1 $ID: 1GKHPpts UBRSV9DyCFb7 \breve{G}mz8LdV-PBLI3n9xUOauZZLN8I0xJg5A6W0QU42nZDkQmKy66phAccording to the contract of the contract of$

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

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

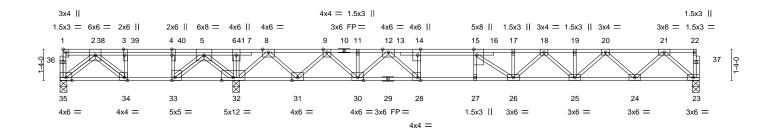
except end verticals.

6-0-0 oc bracing: 32-33,31-32,30-31.

0-1-8

HI 1-3-0 1-10-12 2-3-4 1-6-0

0-1-8 Scale = 1:46.3



		7-0-4		21-3-6				
		7-6-4		19-9-4				
Plate Of	fsets (X,Y)	[1:Edge,0-1-8], [3:0-3-0,Edge],	[4:0-3-0,Edge], [14:0-3-0,Edge]	0,Edge], [14:0-3-0,Edge], [15:0-3-0,Edge], [28:0-1-8,Edge], [33:0-1-8,Edge], [34:0-1-8,Edge]				
LOADIN	(1 -)	SPACING- 2-0	-	DEFL. in (loc) I/defl L/d	PLATES GRIP			
TCLL	40.0	Plate Grip DOL 1.0		Vert(LL) -0.25 26-27 >928 480	MT20 244/190			
TCDL	10.0	Lumber DOL 1.0		Vert(CT) -0.35 26-27 >677 360				
BCLL	0.0		O WB 0.66	Horz(CT) 0.06 23 n/a n/a				
BCDL	5.0	Code IRC2015/TPI201	4 Matrix-S		Weight: 169 lb FT = 20%F, 11%E			

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**TOP CHORD 2x4 SP No.1(flat)

BOT CHORD 2x4 SP No.1(flat) 2x4 SP No.3(flat) WFBS

(size) 35=0-3-8, 32=0-3-8, 23=0-3-8

Max Grav 35=1662(LC 3), 32=3831(LC 1), 23=915(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2360/0, 3-4=-2360/0, 4-5=-2360/0, 5-6=0/2626, 6-8=0/2626, 8-9=0/427, 9-11=-1518/0, 11-12=-1518/0, 12-14=-3071/0, 14-15=-3047/0, 15-17=-3209/0,

17-18=-3209/0, 18-19=-2730/0, 19-20=-2730/0, 20-21=-1659/0

BOT CHORD 34-35=0/1750, 33-34=0/2360, 32-33=-583/893, 31-32=-1290/0, 30-31=-107/736, 28-30=0/2135, 27-28=0/3047, 26-27=0/3047, 25-26=0/3034, 24-25=0/2296, 23-24=0/991 6-32=-874/0, 2-35=-2265/0, 2-34=-2/810, 5-32=-2781/0, 5-33=0/2696, 4-33=-1680/0, WEBS

3-34=-536/0, 8-32=-1779/0, 8-31=0/1395, 9-31=-1342/0, 9-30=0/1070, 21-23=-1317/0, 21-24=0/929, 20-24=-886/0, 20-25=0/589, 18-25=-413/0, 17-26=-297/27, 12-30=-845/0,

12-28=0/1364, 14-28=-816/0, 15-26=-269/479

NOTES-

REACTIONS.

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION. Do not erect truss backwards
- 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 878 lb down at 1-2-4, 878 lb down at 3-2-4, and 878 lb down at 5-2-4, and 857 lb down at 7-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 6) 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 + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 23-35=-10. 1-22=-100

Concentrated Loads (lb)

Vert: 38=-798(B) 39=-798(B) 40=-798(B) 41=-798(B)



December 23,2021

ameters 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 designs. 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 experts.

Starty Information

Ansity Prevent



	Lot 2 Walker Rd.	Ply	Qty	Truss Type	Truss	Job
E16497624				Floor	F4	10204 4004
N.	Job Poforonco (ontional)	'	'	FIOOT	F4	30321-1694
na	Job Reference (option	1	1	Floor	F4	J0321-1694

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:35 2021 Page 1 $ID: 1GKHPpts UBRSV9Dy \overset{\circ}{C} Fb7Gmz8LdV-tOv7G6AZFijlBjwaiSYAstelhwOnDZ2wotUzImy66pg$

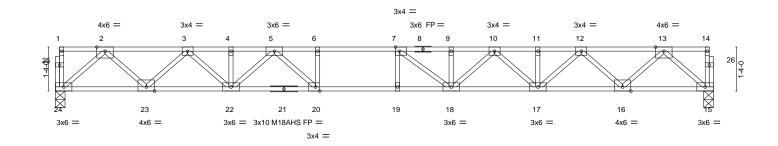
Structural wood sheathing directly applied, except end verticals.

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

0-1-8 1-3-0 $H \vdash$



0-1-8 Scale = 1:32.8



19-11-0 011-1-0/10 [7:0 1 0 Edge] [20:0 1 0 Edge]

Flate Offsets (A, I)	[1.0-1-6,Euge], [20.0-1-6,Euge]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.99	Vert(LL) -0.35 18-19 >683 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.74	Vert(CT) -0.47 18-19 >498 360	M18AHS 186/179
BCLL 0.0	Rep Stress Incr YES	WB 0.55	Horz(CT) 0.07 15 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 105 lb FT = 20%F, 11%E

BOT CHORD

LUMBER-**BRACING-**TOP CHORD TOP CHORD 2x4 SP No.1(flat)

2x4 SP No.1(flat) *Except* **BOT CHORD**

15-21: 2x4 SP 2400F 2.0E(flat)

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 24=0-3-8, 15=0-3-8

Max Grav 24=1075(LC 1), 15=1075(LC 1)

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

TOP CHORD 2-3=-2007/0, 3-4=-3409/0, 4-5=-3409/0, 5-6=-4323/0, 6-7=-4323/0, 7-9=-4232/0,

9-10=-4232/0, 10-11=-3412/0, 11-12=-3412/0, 12-13=-2005/0

BOT CHORD $23 - 24 = 0/1174, \ 22 - 23 = 0/2804, \ 20 - 22 = 0/3891, \ 19 - 20 = 0/4323, \ 18 - 19 = 0/4323, \ 17 - 18 = 0/3894, \ 20 - 22 = 0/3894, \ 20 -$

2-24=-1560/0, 2-23=0/1159, 3-23=-1108/0, 3-22=0/823, 5-22=-655/0, 5-20=0/865, 6-20=-395/0, 13-15=-1558/0, 13-16=0/1159, 12-16=-1116/0, 12-17=0/821, 10-17=-655/0, WEBS

10-18=0/460, 9-18=-251/64, 7-18=-606/291

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

16-17=0/2808, 15-16=0/1172

- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 1.5x3 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



December 23,2021





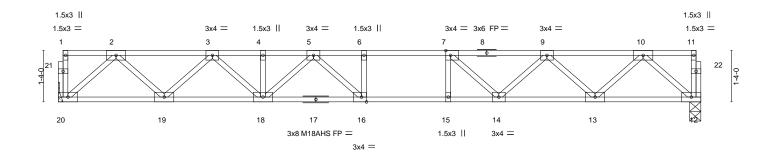
Job	Truss	Truss Type	Qty	Ply	Lot 2 Walker Rd.
10004 4004					E16497625
J0321-1694	F5	Floor	9	1	Joh Deference (entionel)
					Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:36 2021 Page 1

0-1-8 1-3-0 $H \vdash$

2-0-12

0₁1₁8 Scale = 1:28.2



\vdash						16-8-4 16-8-4					
Plate Offse	ets (X,Y)	[7:0-1-8,Edge], [16:0-1-8,E	Edge]	_							
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.ó	Plate Grip DOL	1.00	TC	0.54	Vert(LL)	-0.22 16-18	>892	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.30 16-18	>666	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.05 12	n/a	n/a		
BCDL	5.0	Code IRC2015/TP	I2014	Matri	x-S					Weight: 87 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.1(flat)

BOT CHORD 2x4 SP No.1(flat)

WFBS

2x4 SP No.3(flat)

BRACING-TOP CHORD

BOT CHORD

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

except end verticals.

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

REACTIONS. (size) 20=Mechanical, 12=0-3-8

Max Grav 20=898(LC 1), 12=898(LC 1)

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

TOP CHORD 2-3=-1619/0, 3-4=-2661/0, 4-5=-2661/0, 5-6=-3022/0, 6-7=-3022/0, 7-9=-2612/0,

9-10=-1624/0

BOT CHORD $19 - 20 = 0/970,\ 18 - 19 = 0/2244,\ 16 - 18 = 0/2936,\ 15 - 16 = 0/3022,\ 14 - 15 = 0/3022,\ 13 - 14 = 0/2243,$ 12-13=0/970

2-20=-1289/0, 2-19=0/903, 3-19=-869/0, 3-18=0/567, 10-12=-1289/0, 10-13=0/909, WEBS

9-13=-861/0, 9-14=0/557, 5-18=-374/0, 5-16=-160/451, 7-14=-702/0

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x6 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



December 23,2021





Job	Truss	Truss Type	Qty	Ply	Lot 2 Walker Rd.
10004 4004					E16497626
J0321-1694	F6	Floor	10	1	Job Reference (optional)

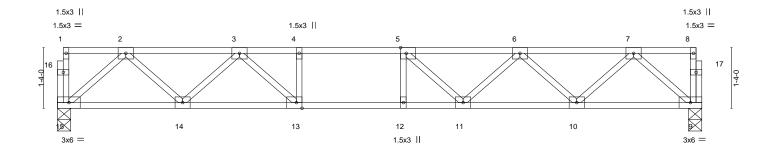
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 23 10:04:36 2021 Page 1 ID:1GKHPptsUBRSV9DyCFb7Gmz8LdV-MaSWUSAB0?rcotVmGA3PO5BaOKiRy3Y41XDWrCy66pf

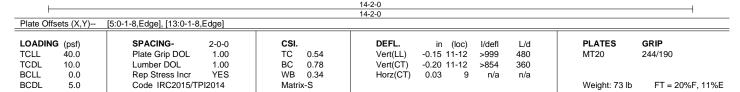
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.







BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1(flat)

2x4 SP No.1(flat) BOT CHORD

2x4 SP No.3(flat) WFBS

REACTIONS. (size) 15=0-3-8, 9=0-3-8

Max Grav 15=759(LC 1), 9=759(LC 1)

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

TOP CHORD 2-3=-1309/0, 3-4=-2153/0, 4-5=-2153/0, 5-6=-2019/0, 6-7=-1326/0

 $14 - 15 = 0/813,\ 13 - 14 = 0/1799,\ 12 - 13 = 0/2153,\ 11 - 12 = 0/2153,\ 10 - 11 = 0/1821,\ 9 - 10 = 0/806$ **BOT CHORD WEBS**

 $2-15=-1080/0,\ 2-14=0/690,\ 3-14=-683/0,\ 3-13=0/649,\ 7-9=-1070/0,\ 7-10=0/723,$

6-10=-689/0, 6-11=0/352, 5-11=-383/24, 4-13=-299/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



December 23,2021



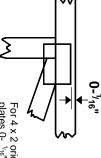


Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Apply plates to both sides of truss Dimensions are in ft-in-sixteenths.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss

ω

O

S

required direction of slots in This symbol indicates the

connector plates

* Plate location details available in MiTek 20/20 software or upon request

PLATE SIZE



to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



output. Use T or I bracing Indicated by symbol shown and/or if indicated. by text in the bracing section of the

BEARING



number where bearings occur.

Min size shown is for crushing only Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint

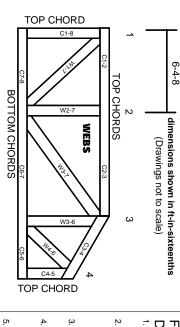
Industry Standards:

ANSI/TPI1: National Design Specification for Metal

DSB-89:

Installing & Bracing of Metal Plate Connected Wood Trusses. Plate Connected Wood Truss Construction. Guide to Good Practice for Handling, Building Component Safety Information Design Standard for Bracing

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

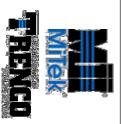
ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

truss unless otherwise shown. Trusses are designed for wind loads in the plane of the

section 6.3 These truss designs rely on lumber values established by others. Lumber design values are in accordance with ANSI/TPI 1

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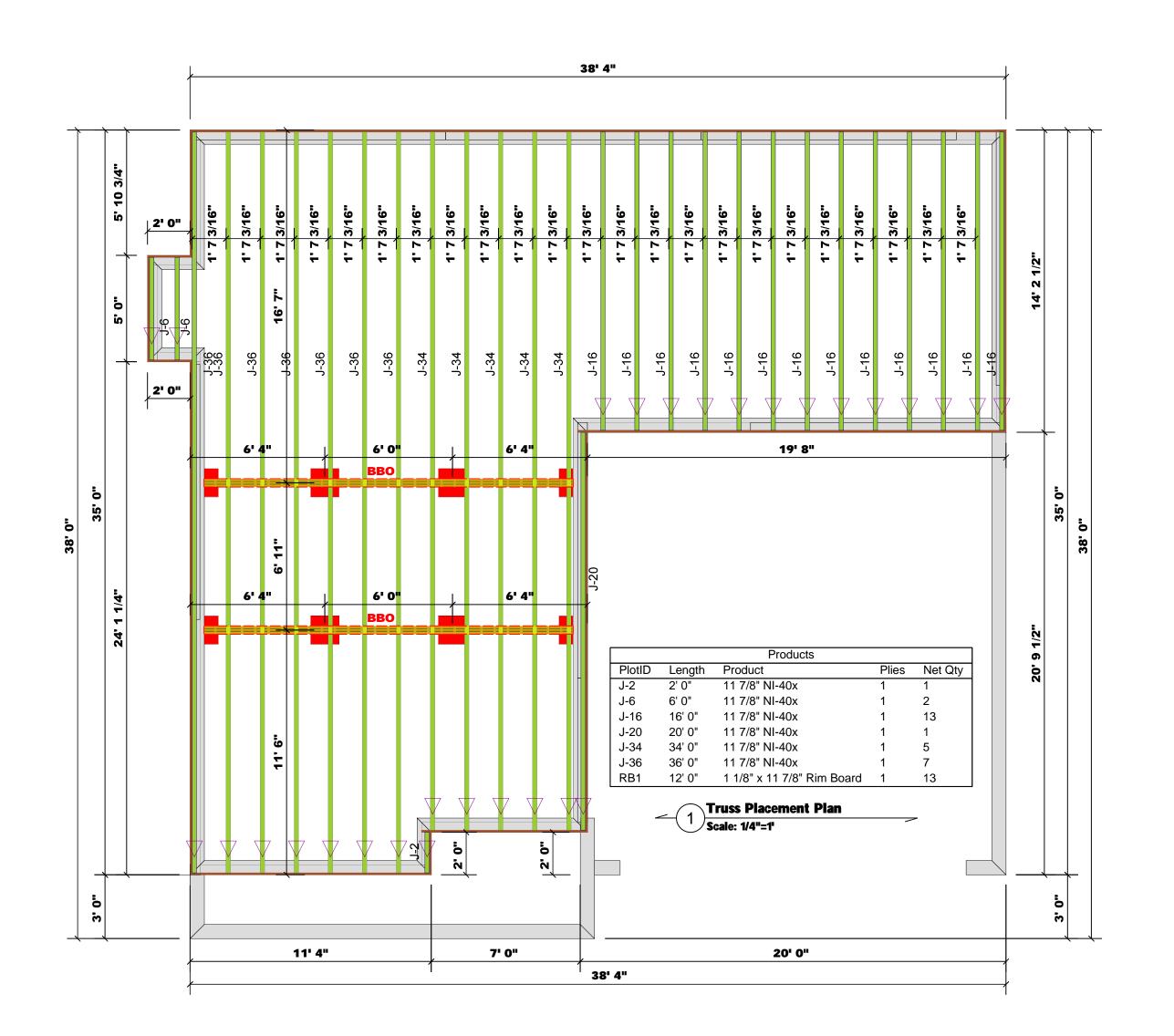


MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection. esponsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.





Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444

earing reactions less than or equal to 3000# are eemed to comply with the prescriptive Code equirements. The contractor shall refer to the ttached Tables (derived from the prescriptive Code equirements) to determine the minimum foundation ize and number of wood studs required to support eactions greater than 3000# but not greater than 5000#. A registered design professional shall be etained to design the support system for any eaction that exceeds those specified in the attached ables. A registered design professional shall be etained to design the support system for all eactions that exceed 15000#.

David Landry

David Landry

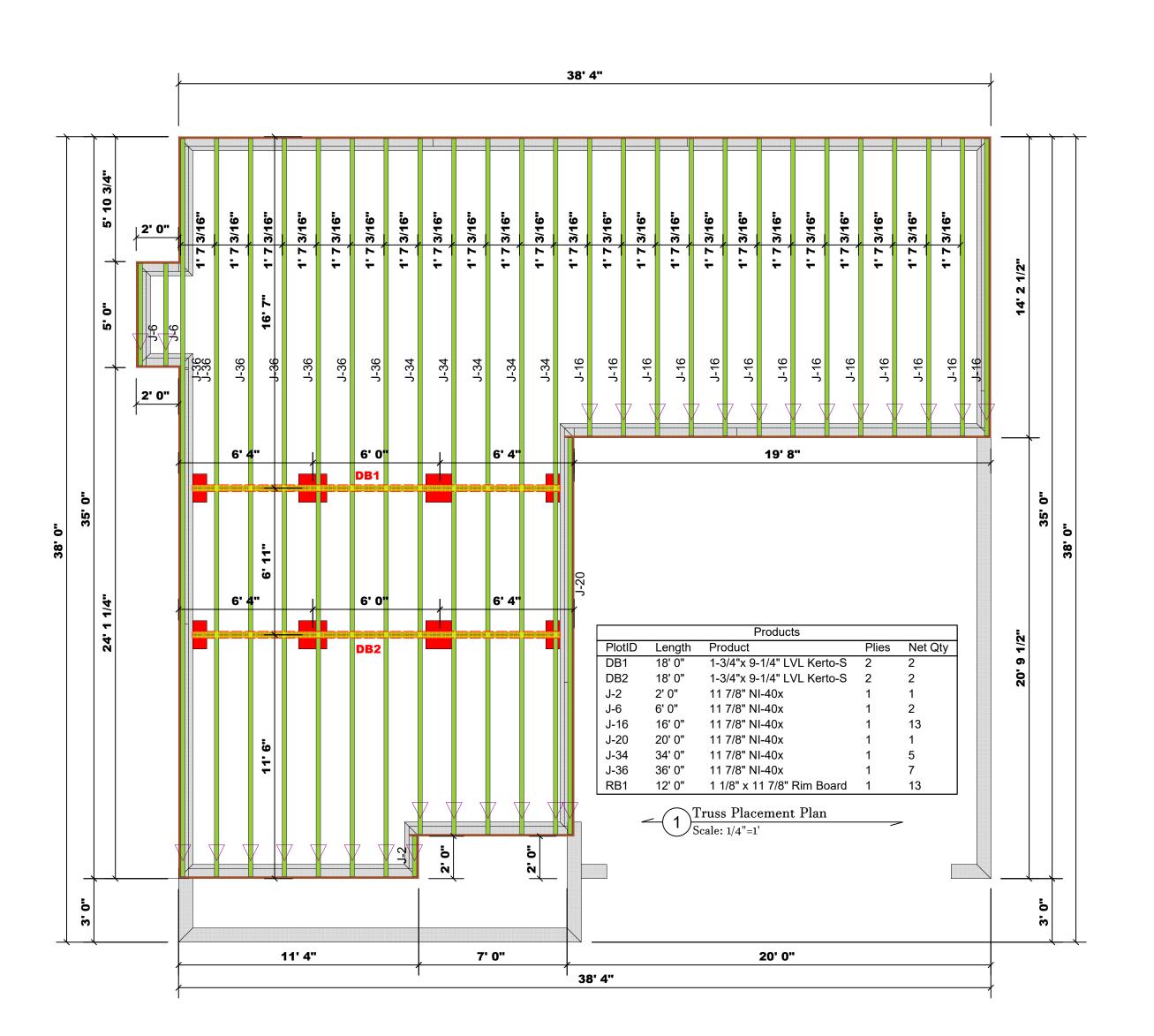
LOAD CHART FOR JACK STUDS										
(BASED ON TABLES ROOLE(L) & (b))										
NUMBER OF JACK STUDS REQUIRED & EA END OF HEADER/GERDER										
END REACHON (0P 10)	REQ'D STUDG FOR (Z) PLY HEADER		BND REACTION (UP TD)	REQ15 STUDS FOR (3) ALY READER	END REACTION (JP TO)	REQUE STUDS FOR (4) PLY HEADER				
1700	1		2550	1	3400	1				
3400	2		5100	2	6800	2				
5100	3		7650	3	10200	3				
6800	4		10200	4	13600	4				
8500	5		12750	5	17000	5				
10200	6		15300	6						
11900	7									
13600	8									

11900 13600 15300	7 8 9				
CITY / CO. Linden / Harnett	740 Walker Road	I-Joists Over Crawl	03/21/22	David Landry	SALES REP. Marshall Naylor
CITY / CO.	ADDRESS	MODEL	DATE REV.	DRAWN BY	SALES REP.
Ben Stout Real Estate	JOB NAME Lot 2 Walker Rd.	Cypress	N/A		J0322-1391
BUILDER	JOB NAME	PLAN	SEAL DATE N/A	QUOTE #	10B #

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.
These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com (Reference Engineered Truss Drawing)

= Indicates Left End of Truss

Do NOT Erect Truss Backwards





Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

David Landry

David Landry

LOAD CHART FOR JACK STUDS

(BASED ON TABLES R502.5(1) & (b))

MBER C					a END OF	=
REQ'D STUDS FOR (2) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR
1		2550	1		3400	1
2		5100	2		6800	2
3		7650	3		10200	3
4		10200	4		13600	4
5		12750	5		17000	5
6		15300	6			
7						
8						
9						
	1 2 3 4 5 6 7 8 6 7 8 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1 2 3 4 5 6 7 7 8 6 7 9 1 8 6 7 9 1 8 6 7 9 9 1 8 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1	HEADERA BEAD S 2108 2008 2008 2008 2008 2008 2008 2008	HEADER/GIRDER BEAG D S10DS 200 1 2550 1 2 5100 2 7 650 3 4 10200 4 12750 5 15300 6 7 15300 6	HEADER/GIRDER NO (3) LA HEADER (5) 1 2550 1 2 5100 2 3 7650 3 4 10200 4 12750 5 15300 6 7 8	No. No.

BUILDER	Ben Stout Real Estate	CITY / CO.	CITY / CO. Linden / Harnett	15300
JOB NAME	JOB NAME Lot 2 Walker Rd.	ADDRESS	740 Walker Road	9
PLAN	Cypress	MODEL	I-Joists Over Crawl	
SEAL DATE N/A	N/A	DATE REV.	03/21/22	
QUOTE#		DRAWN BY	DRAWN BY David Landry	
10B#	J0322-1391	SALES REP.	SALES REP. Marshall Naylor	

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.
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Client: Benjamin Stout

Project: Address: Date: 5/9/2022

Input by: David Landry Job Name: Cypress Crawl Project #: Cypress Crawl LVL

Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED DB₁

Application:

Design Method:

Building Code:

Load Sharing:

Deck:

Floor

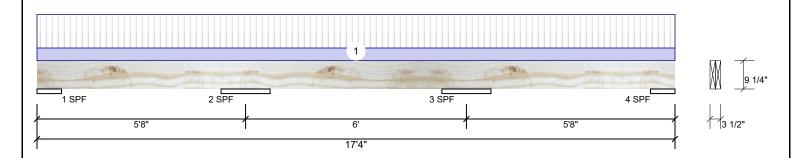
ASD

No

IBC/IRC 2015

Not Checked

Level: Level



Member I	nformation
Type:	Girder
Plies:	2

Moisture Condition: Dry Deflection LL: Deflection TL: 360

Importance: Normal - II Temperature: Temp <= 100°F

Reactions UNPATTERNED Ib (Uplift)

Const	Wind	Snow	Dead	Live	Direction	Brg
0	0	0	668	1733	Vertical	1
0	0	0	1602	4154	Vertical	2
0	0	0	1602	4154	Vertical	3
0	0	0	668	1733	Vertical	4
	0	0	1602	4154	Vertical	3

Page 1 of 2

Bearings

Bearing	Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	8.000"	Vert	22%	662 / 1975	2637	L_L	D+L
2 - SPF	16.000"	Vert	25%	1608 / 4455	6063	LL_	D+L
3 - SPF	16.000"	Vert	25%	1608 / 4455	6063	_LL	D+L
4 - SPF	8.000"	Vert	22%	662 / 1975	2637	L_L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-3184 ft-lb	5'8"	12542 ft-lb	0.254 (25%)	D+L	LL_
Unbraced	-3184 ft-lb	5'8"	4756 ft-lb	0.670 (67%)	D+L	LL_
Pos Moment	2273 ft-lb	2'9 5/8"	12542 ft-lb	0.181 (18%)	D+L	L_L
Unbraced	2273 ft-lb	2'9 5/8"	4756 ft-lb	0.478 (48%)	D+L	L_L
Shear	1704 lb	7'1 1/4"	6907 lb	0.247 (25%)	D+L	LL_
LL Defl inch	0.033 (L/2204)	8'8"	0.150 (L/480)	0.218 (22%)	L	_L_
TL Defl inch	0.040 (L/1784)	8'8"	0.200 (L/360)	0.202 (20%)	D+L	_L_

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at end bearings.
- 6 Bottom must be laterally braced at end bearings.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Tie-In Far	0-0-0 to 17-4-0	11-11-1 (Continuous)	Тор	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
1	Tie-In Near	0-0-0 to 17-4-0	5-0-11 (Continuous)	Тор	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
	Self Weight				7 PLF					

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals Damaged Beams must not be used

- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS







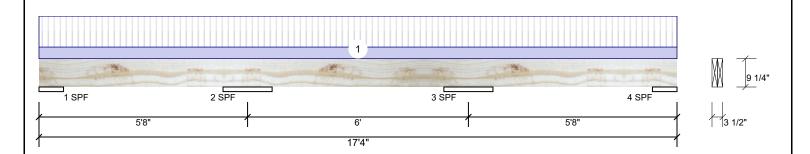
Client: Benjamin Stout

Project: Address: Date:

5/9/2022 Input by: David Landry Job Name: Cypress Crawl Project #: Cypress Crawl LVL

Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED DB₂

Level: Level



Floor

ASD

No

IBC/IRC 2015

Not Checked

Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360
Importance:	Normal

Application: Design Method: **Building Code:** Load Sharing:

Deck:

al - II Temp <= 100°F

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	1284	500	0	0	0
2	Vertical	3077	1198	0	0	0
3	Vertical	3077	1198	0	0	0
4	Vertical	1284	500	0	0	0
l						

Page 2 of 2

Bearings

l	Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
l	1 - SPF	8.000"	Vert	16%	495 / 1463	1959	L_L	D+L
1	2 - SPF	16.000"	Vert	19%	1203 / 3301	4503	LL_	D+L
l	3 - SPF	16.000"	Vert	19%	1203 / 3301	4503	_LL	D+L
I	4 - SPF	8.000"	Vert	16%	495 / 1463	1959	LL	D+L

Analysis Results

Temperature:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-2365 ft-lb	11'8"	12542 ft-lb	0.189 (19%)	D+L	_LL
Unbraced	-2365 ft-lb	11'8"	4756 ft-lb	0.497 (50%)	D+L	_LL
Pos Moment	1688 ft-lb	2'9 5/8"	12542 ft-lb	0.135 (13%)	D+L	L_L
Unbraced	1688 ft-lb	2'9 5/8"	4756 ft-lb	0.355 (35%)	D+L	L_L
Shear	1267 lb	7'1 1/4"	6907 lb	0.183 (18%)	D+L	LL_
LL Defl inch	0.024 (L/2976)	8'8"	0.150 (L/480)	0.161 (16%)	L	_L_
TL Defl inch	0.030 (L/2403)	8'8"	0.200 (L/360)	0.150 (15%)	D+L	_L_

Design Notes

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T Edicial sicilatiness ratio based on single ply water.											
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1	Tie-In Near	0-0-0 to 17-4-0	7-11-6 (Continuous)	Тор	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF		
	Self Weight				7 PLF						

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- Handling & Installation
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 2 Damaged Beams must not be used

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