### **Reaction Summary of Order**

ROOF & FLOOR
TRUSSES & BEAMS
Reilly Road Industrial Park P.O. Box 40408
Fayetteville, N.C. 28309 (910) 864-TRUS

		DATE	01/0//21 PAGE
<b>REQ. QUOTE DATE</b>	11	ORDER #	J0121-0101
ORDER DATE	01/06/21	QUOTE #	
DELIVERY DATE	11	CUSTOMER ACCT #	0000006702
DATE OF INVOICE	11	CUSTOMER PO#	
ORDERED BY		INVOICE #	
COUNTY	Harnett	TERMS	
SUPERINTENDANT		SALES REP	Lenny Norris
JOBSITE PHONE #		SALES AREA	David Landry

	Godwin & Associates	JOB NAME: Glover Residen	ce	LOT # 155	SUBDIV: Addie Webb Lane
O L	820 Sandy Rd.	MODEL:Roof	TAG: Glover Residence	JOB CATEGO	DRY: Residential - Roof
D TO	Four Oaks, NC 27524 (919) 4228956	DELIVERY INSTRUCTIONS:			
SHIP FO	Godwin & Associates 155 Addie Webb Lane Dunn,	SPECIAL INSTRUCTIONS:			PLAN SEAL DATE:

BY DATE

BUILDING DEPARTMENT	OVERHANG INFO		HEEL HEIGHT	00-06-08	REQ. LAYOUTS	REQ. ENGINEERING	QUOTE	DTL	01/06/21
Roof Order	END CUT	RETURN					LAYOUT	DTL	01/06/21
11001 01001			GABLE STUDS	24 IN. OC	JOBSITE 1	JOBSITE	1 CUTTING	DTL	01/06/21

ROOF T	RUS	SES		DADING FORMATION	TCLL-TCDL-BCLL-BCDL STRESS INCR. 20.0,10.0,0.0,10.0 1.15				RO	OF TRUSS S	PACING: 24.0	IN. O.C. (TYF	<b>?</b> .)	
PROFILE	QTY PLY	PIT	ВОТ	TYPE ID	BASE O/A	LUN	BOT	OVEF LEFT	RHANG	REACTIO	NS			
A DA	28	6,00	0.00	COMMON	45-00-00			01-04-08		Joint 2 1905.7 lbs. -126.2 lbs.	Joint 10 1905.7 lbs. -126.2 lbs.			
	2	6.00	0.00	COMMON A1GE	45-00-00 45-00-00	2 X 6	2 X 6	01-04-08	01-04-08	Joint 2 185.3 lbs. -32,1 lbs.	Joint 26 185.3 lbs. 1.9 lbs.	Joint 28 180.7 lbs. -58.7 lbs.	Joint 29 153.9 lbs. -32.3 lbs.	Joint 30 161,3 lbs. -33,4 lbs.
	11	6,00	0.00	COMMON A2	45-00-00 45-00-00	2 X 6	2 X 6		01-04-08	Joint 1 1834.4 lbs. -106.4 lbs.	Joint 9 1906,8 lbs. -126,2 lbs.			
	4	6.00	0.00	COMMON B1	20-00-00 20-00-00	2 X 6	2 X 6	01-04-08	01-04-08	Joint 2 878.9 lbs. -179.3 lbs.	Joint 4 878.9 lbs. -179.3 lbs.			
	1	6.00	0.00	GABLE B1GE	20-00-00 20-00-00	2 X 6	2 X 6	01-04-08	01-04-08	Joint 2 868.0 lbs. -198.2 lbs.	Joint 12 868.0 lbs. -198.2 lbs.			
	11	4.00	0.00	MONOPITCH M1	12-00-00 12-00-00	2 X 6	2 X 6	01-04-08		Joint 2 543.2 lbs. -200.5 lbs.	Joint 7 470.2 lbs. -203.4 lbs.			
	2	4.00	0.00	GABLE M1GE	12-00-00 12-00-00	2 X 6	2 X 6	01-04-08		Joint 2 543.2 lbs. -290.2 lbs.	Joint 11 470.2 lbs. -300.5 lbs.			
	1	6,00	0.00	VALLEY V1	19-08-09 19-08-09	2 X 4	2 X 4			Joint 1 178.4 lbs. -3.6 lbs.	Joint 5 178,4 lbs. -7,0 lbs.	Joint 6 461.0 lbs. -98.9 lbs.	Joint 8 208.1 lbs. 51.4 lbs.	Joint 9 460.9 lbs. -99.0 lbs.
	1	6.00	0.00	VALLEY V2	15-08-09 15-08-09	2 X 4	2 X 4			Joint 1 107.2 lbs. -3.6 lbs.	Joint 5 107.2 lbs. 1.7 lbs.	Joint 6 343.9 lbs. -77.1 lbs.	Joint 7 271.6 lbs. 33.3 lbs.	Joint 8 343.8 lbs. -77.2 lbs.
	1	6.00	0.00	VALLEY V3	11-08-09 11-08-09	2 X 4	2 X 4			Joint 1 194,9 lbs. -25.7 lbs.	Joint 3 194.9 lbs. -31.7 lbs.	Joint 4 456,3 lbs, 0,6 lbs.		

### **Reaction Summary of Order**

ROOF & FLOOR ComTech|| TRUSSES & BEAMS Reilly Road Industrial Park P.O. Box 40408 Fayetteville, N.C. 28309 (910) 864-TRUS

REQ. QUOTE DATE	11	ORDER#	J0121-0101
ORDER DATE	01/06/21	QUOTE#	
DELIVERY DATE	11	CUSTOMER ACCT #	0000006702
DATE OF INVOICE	1.1	CUSTOMER PO #	
ORDERED BY		invoice #	
COUNTY	Harnett	TERMS	
SUPERINTENDANT		SALES REP	Lenny Norris
JOBSITE PHONE #		SALES AREA	David Landry

Г	Godwin & Associates	JOB NAME: Glover Resider	nce	LOT # 155	SUBDIV: Addie Webb Lane
SOL	820 Sandy Rd.	MODEL:Roof	TAG: Glover Residence	JOB CATEG	ORY: Residential - Roof
D TO	Four Oaks, NC 27524 (919) 4228956	DELIVERY INSTRUCTIONS:			
SHIP	Godwin & Associates 155 Addie Webb Lane	SPECIAL INSTRUCTIONS:			
ŏ	Dunn,	I.			DI ANICEAL DATE:

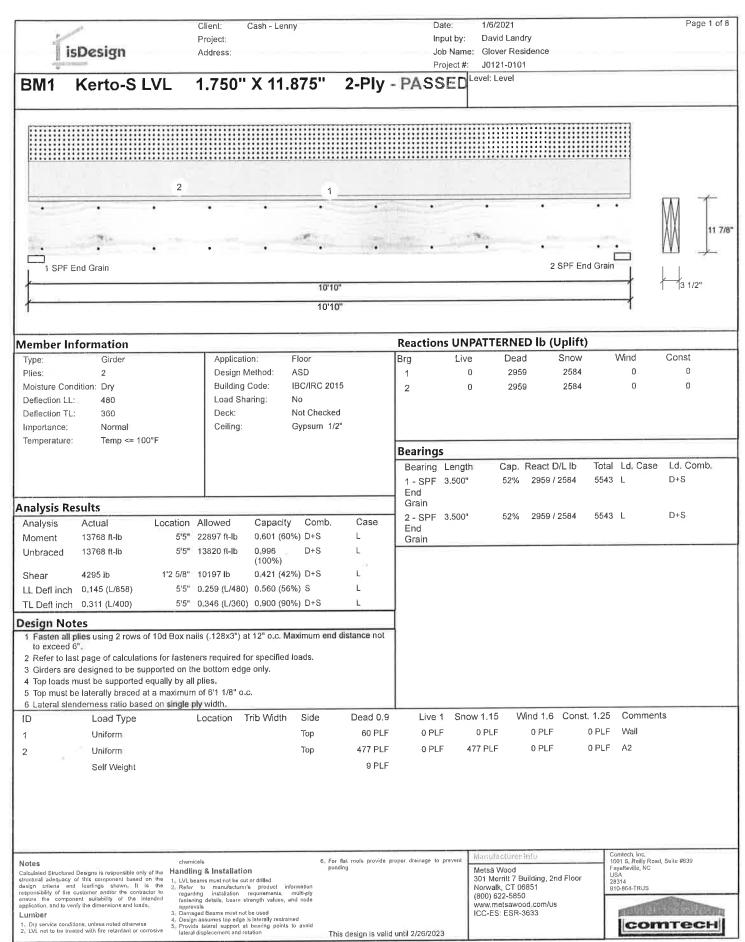
PLAN SEAL DATE: BY DATE

BUILDING DEPARTMENT	OVERHANG INFO		HEEL HEIGHT	00-06-08	REQ. LAYOUTS	REQ. ENGINEERING	QUOTE	DTL	01/06/21
Roof Order	END CUT	RETURN					LAYOUT	DTL	01/06/21
11001 01001			GABLE STUDS	24 IN. OC	JOBSITE 1	JOBSITE	1 CUTTING	DTL	01/06/21

ROOF T	RUS	SES		ADING FORMATION	TCLL-TCDL-B			ESS INCR. 1.15	RO	ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)
PROFILE	QTY PLY	TOP	CH BOT	TYPE ID	BASE O/A		MBER BOT	OVER LEFT	HANG RIGHT	T KEACTIONS
1	1	6.00	0.00	VALLEY V4	07-08-09 07-08-09	2 X 4	2 X 4			Joint 1 Joint 3 Joint 4  133.1 lbs. 133.2 lbs. 256.2 lbs.  -21.3 lbs25.0 lbs. 11.0 lbs.
	1	6.00	0.00	VALLEY V5	03-08-09 03-08-09		2 X 4			Joint 1 Joint 3 101.3 lbs. 101.3 lbs6,1 lbs6,1 lbs.

### **ITEMS**

QTY	ITEM TYPE	SIZE	LENGTH FT-IN-16	PART NUMBER	NOTES
14	Hangers, USP	HUS 26			SIMPSON (HUS26)
2	LVL Beams (Sized)	LVL, 1-3/4" x 11-7/8" (S)	12-00-00		BM1
2	LVL Beams (Sized)	LVL, 1-3/4" x 11-7/8" (S)	16-00-00		GDH
2	LVL Beams (Sized)	LVL, 1-3/4" x 11-7/8" (S)	25-00-00		GDH2
2	LVL Beams (Sized)	LVL, 1-3/4" x 11-7/8" (S)	34-00-00		GDH3
3	LVL Beams (Sized)	LVL, 1-3/4" x 16" (S)	24-00-00		BM2



Client: Cash - Lenny 1/6/2021 Page 2 of 8 Project: Input by: David Landry isDesign Job Name: Glover Residence Address: J0121-0101 Project #: Level: Level 1.750" X 11.875" 2-Ply - PASSED Kerto-S LVL **BM1** 2 SPF End Grain 1 SPF End Grain 10'10" 10'10"

### Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6"

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
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 end/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. VVL beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, mulli-ply fastening details, beam strength values, and code approvale

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

Manufacturer Info

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



This design is valid until 2/26/2023

Page 3 of 8 Client: Cash - Lenny 1/6/2021 Input by: David Landry Project: isDesign Job Name: Glover Residence Address: J0121-0101 Project #: Level: Level 3-Ply - PASSED Kerto-S LVL 1.750" X 16.000" BM<sub>2</sub> 1 SPF End Grain 2 SPF End Grain 24 24 Reactions UNPATTERNED lb (Uplift) Member Information Wind Const Application: Floor Brg Live Dead Snow Type: Girder 0 Plies: 3 Design Method: ASD 0 1856 1632 0 1 0 IBC/IRC 2015 n 1632 Moisture Condition: Dry Building Code: 2 n 1856 Yes 480 Load Sharing: Deflection LL: Deflection TL: 360 Not Checked Deck: Gypsum 1/2" Importance: Normal Ceiling: Temperature: Temp <= 100°F Bearings Ld. Comb. Cap. React D/L lb Total Ld. Case Bearing Length D+S 1-SPF 3.500" 22% 1856 / 1632 3488 L End Grain Analysis Results D+S 1856 / 1632 3488 L 2 - SPF 3.500" 22% Location Allowed Capacity Comb. Case Analysis Actual End 0,325 (33%) D+S L Moment 20172 ft-lb 12' 62010 ft-lb Grain 0.998 L Unbraced 20172 ft-lb 12' 20221 fl-lb D+S (100%)0.147 (15%) D+S L 3037 lb 22'5 3/8" 20608 lb Shear LL Defl inch 0.276 (L/1024) 12' 1/16" 0,589 (L/480) 0.470 (47%) S L 12' 1/16" 0.785 (L/360) 0.750 (75%) D+S TL Defl inch 0.590 (L/479) Design Notes 1 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6" 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 8'10 1/8" o.c. 6 Lateral slenderness ratio based on single ply width. Wind 1.6 Const. 1.25 Comments Location Trib Width Side Dead 0.9 Live 1 Snow 1.15 ID Load Type 136 PLF 0 PLF 136 PLF 0 PLF 0 PLF M1 Top 1 Uniform 19 PLF Self Weight Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC 6. For flat roofs provide proper drainage to prevent ponding NOCES

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. Melsä Wood Handling & Installation 1, UVL beams must not be cut or drilled 2, Refer to inanufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvats Metsa Wood 301 Merntt 7 Building, 2nd Floor Norwalk, CT 06851

This design is valid until 2/26/2023

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

approvals

Camaged Beams must not be used

Design assumes top edge is laterally restrained

Provide lateral support at bearing points to avoid

lateral displacement and rotation

COMTECH

28314 910-864-TRUS

(800) 622-5850 www.metsawood.com/us ICC-ES: ESR-3633

isDesign

Client:

Project: Address: Cash - Lenny

Date: Input by: 1/6/2021

David Landry

Job Name: Glover Residence J0121-0101

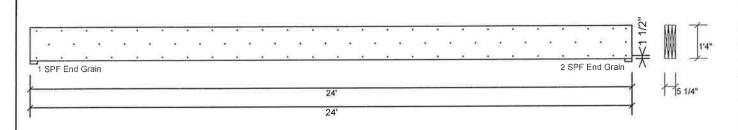
Page 4 of 8

Kerto-S LVL BM<sub>2</sub>

1.750" X 16.000"

3-Ply - PASSED

Level: Level



### Multi-Ply Analysis

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

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

NOtes
Calculated Shuchterd 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 International State of the International Component State of the International Loading State of the Internationa Lumber

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

### chemicals

### Handling & Installation

Handling & Installation

1, LVL beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength value, 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

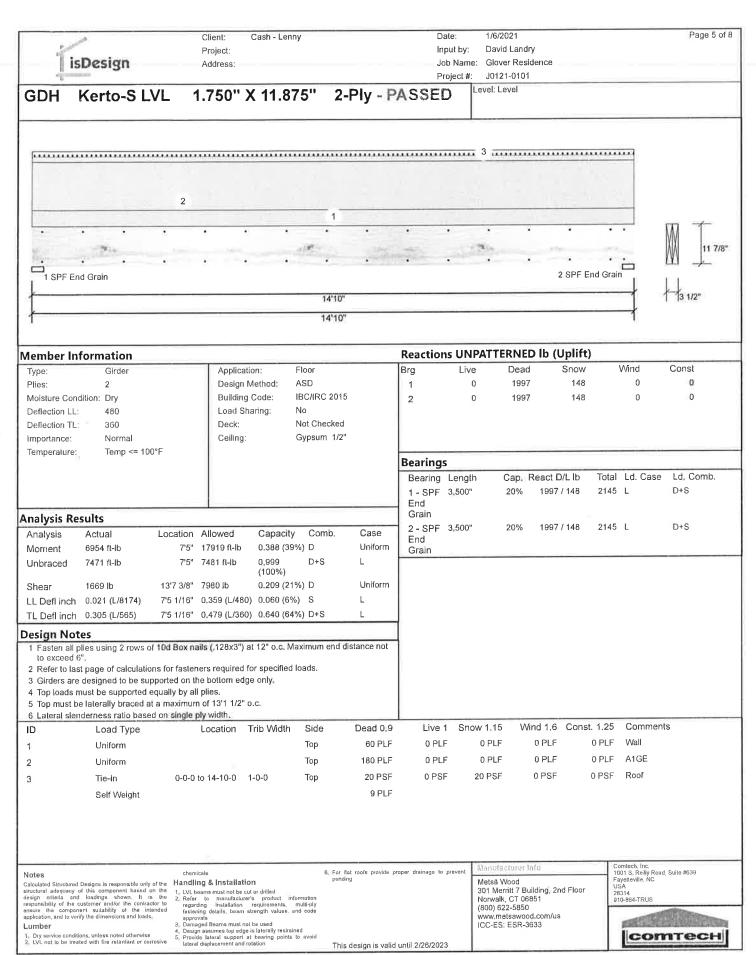
6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 2/26/2023

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

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





Page 6 of 8 Cash - Lenny 1/6/2021 Client: Project: Input by: David Landry isDesign Address: Job Name: Glover Residence J0121-0101 Level: Level Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED **GDH** 2 SPF End Grain 1 SPF End Grain 14'10" 14'10"

### Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6"

Capacity	0.0 %
Load .	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81,9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min, End Distance	3"
Load Combination	
Duration Factor	1.00

NOTES

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design citierla and loadings shown, it is the responsibility of the customer and/or the contractor to ensure the component suitability of the inlanded 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

Handling & Installation

1, LVL beams must not be out or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-spl festening delails, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is faiterally restrained

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

6. For flat roofs provide proper drainage to prevent ponding

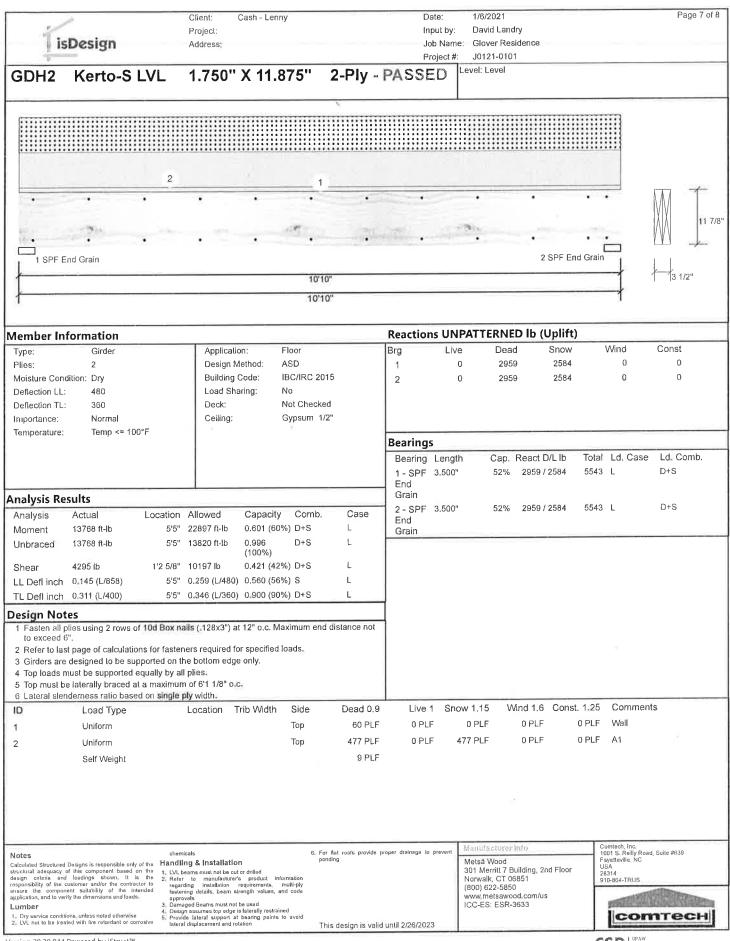
Metsä Wood 301 Merritt 7 Bullding, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us ICC-ES: ESR-3633

Manufacturer Info

Corntech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA

28314 910-864-TRUS





Page 8 of 8 Date: 1/6/2021 Client: Cash - Lenny Input by: David Landry Project: isDesign Address: Job Name: Glover Residence J0121-0101 Project #: Level: Level 1.750" X 11.875" 2-Ply - PASSED Kerto-S LVL GDH2 2 SPF End Grain 1 SPF End Grain 10'10" 10'10"

### Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6"

200 000400	0.02/	_
Capacity	0.0 %	
Load	0.0 PLF	
Yield Limit per Foot	163.7 PLF	
Yield Limit per Fastener	81.9 lb.	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination		
Duration Factor	1.00	

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

This design is valid until 2/26/2023

Manufacturer info

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





**Trenco** 

818 Soundside Rd Edenton, NC 27932

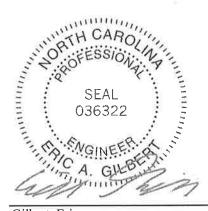
Re: J0121-0101 Glover Residence

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

Pages or sheets covered by this seal: E15280075 thru E15280086

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844



January 6,2021

Gilbert, Eric

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

Glover Residence Job Truss Truss Type Qtv E15280075 28 J0121-0101 Α1 COMMON Job Reference (optional) 8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Jan 6 15:43:43 2021 Page 1 Comtech, Inc. Fayetteville, NC - 28314, ID:pdPzA5by7CWsCzZcmYVa69zy2HB-v6ko5IIDNL5XNKD5SFNvT3icihxFTsGzIJXCGezy1Pk 45-0-0 22-6-0 **6-0-0** 28-6-0 6-0-0 8-0-0 Scale = 1:86,2 5x8 = 6.00 12 6 4x4 / 4x4 < 21 20 4x8 🖊 18 4xB < 8 2x4 || 4x4 < 4x4 -9-0 12-0-0 13 5x5 = 16 12 14 5x5 = 17 15 2x4 || 6x10 M18SHS = 4x6 = 2x4 || 4x6 = 6x10 M18SHS =

28-6-0

12-0-0

DEEL.

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

**BRACING-**

TOP CHORD

BOT CHORD

WERS

JOINTS

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

TOP CHORD 2x6 SP No.1

20.0

10.0

10.0

0.0

**BOT CHORD** 2x6 SP No.1 \*Except\*

13-16: 2x8 SP 2400F 2.0E

WEBS 2x4 SP No.2

REACTIONS.

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

(size) 2=0-5-8, 10=0-5-8 Max Horz 2=-154(LC 10)

Max Uplift 2=-126(LC 12), 10=-126(LC 13) Max Grav 2=1906(LC 2), 10=1906(LC 2)

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

TOP CHORD

2-3=-3318/609, 3-5=-2879/595, 5-6=-623/264, 6-7=-623/264, 7-9=-2879/595,

2-17=-405/2906, 15-17=-405/2908, 14-15=-229/2491, 12-14=-409/2828, 10-12=-409/2824 BOT CHORD WEBS

7-14=0/755, 9-14=-790/251, 9-12=-29/293, 5-15=0/755, 3-15=-790/249, 3-17=-29/293,

16-6-0 8-0-0

CSI.

0.63

0.82

0.29

TC

BC.

WB

Matrix-S

2-0-0

1:15

1:15

YES

5-18=-2039/424, 7-18=-2039/424

### NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-2 to 3-3-14, Interior(1) 3-3-14 to 22-6-0, Exterior(2) 22-6-0 to 27-0-0, Interior(1) 27-0-0 to 46-2-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 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) except (jt=lb) 2=126, 10=126



45-0-0

244/190

244/190

FT = 20%

**PLATES** 

M18SHS

Weight: 325 lb

MT20

9-14, 3-15, 5-18, 7-18

Structural wood sheathing directly applied or 3-11-15 oc purlins,

8-0-0

I/defl

>999

>920

>999

1 Row at midpt

1 Brace at Jt(s): 18

n/a

in (loc)

0.10

-0.48 15-17

-0.58 12-14

0.23 15-17

10

L/d

360

240

n/a

240

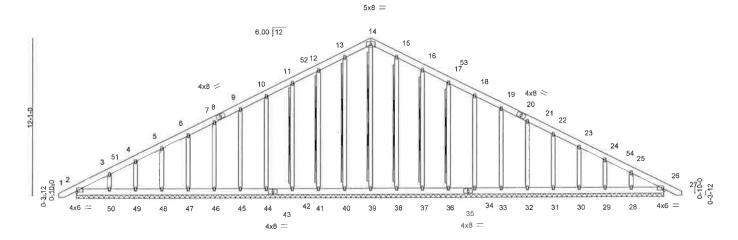
Rigid ceiling directly applied or 10-0-0 oc bracing.

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



Glover Residence Truss Type Qly Ply Job Truss E15280076 J0121-0101 A1GE COMMON SUPPORTED GAB Job Reference (optional) 8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Jan 6 15:43:45 2021 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:pdPzA5by7CWsCzZcmYVa69zy2HB-rUsZWzmTvzLFceNTZfPNYUn40VpCxnzGmd0JKXzy1Pi 45-0-0

Scale = 1:83.2



45-0-0											
LOADING (psf) TCLL 20,0 TCDL 10,0 BCLL 0,0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TP	2-0-0 1,15 1.15 YES	CSI. TC BC WB Matri	0.07 0.02 0.15 x-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0,00 -0,00 0,01	(loc) 26 26 26	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 416 lb	<b>GRIP</b> 244/190 FT = 20%

45.0.0

LUMBER-

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

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. 2x4 SPF No 2 - 14-39, 13-40, 12-41, 11-42

, 15-38, 16-37, 17-36

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nalls, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS.

All bearings 45-0-0.

(lb) - Max Horz 2=-154(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 40, 41, 42, 44, 45, 46, 47, 48, 49, 50, 38, 37, 36, 34, 33,

32, 31, 30, 29, 28

Max Grav All reactions 250 lb or less at joint(s) 2, 39, 40, 41, 42, 44, 45, 46, 47, 48, 49, 50, 38, 37, 36, 34, 33, 32, 31, 30, 29, 28, 26

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

10-11=-98/289, 11-12=-118/348, 12-13=-141/412, 13-14=-151/444, 14-15=-151/445,

15-16=-141/413, 16-17=-118/350, 17-18=-98/291

### NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) -1-2-2 to 3-3-14, Exterior(2) 3-3-14 to 22-6-0, Corner(3) 22-6-0 to 27-0-0, Exterior(2) 27-0-0 to 46-2-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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, 40, 41, 42, 44, 45, 46, 47, 48, 49, 50, 38, 37, 36, 34, 33, 32, 31, 30, 29, 28.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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 property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.



Glover Residence Qly Job Truss Truss Type Ply E15280077 J0121-0101 Α2 COMMON Job Reference (optional) 8.330 s Oct 7 2020 MITek Industries, Inc. Wed Jan 6 15:43:46 2021 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:pdPzA5by7CWsCzZcmYVa69zy2HB-KgQxkJn5gGT6Enyg7Nwc5iK6xuzwgCyP\_Gmstzzy1Ph 46-4-8 8-0-0 28-6-0 6-0-0 36-6-0 Scale = 1:85,8 5x8 = 6.00 12 4x4 = 20 4x4 < 6 4x8 / 4x8 < 2x4 || 4x4 < 4x4 = 8 7-9-0 12-0-0 10 0-10-0 15 12 4x6 16 14 13 11 2x4 || 2x4 || 6x10 M18SHS == 4x6 = 6x10 M18SHS = 4x6 == 28-6-0 45-0-0 8-0-0 8-6-0 8-0-0 PLATES LOADING (psf) SPACING-CSI. DEFL. (loc) I/defl L/d GRIP 2-0-0 in 360 MT20 244/190 1,15 0.63 Vert(LL) -0.49 14-16 >999 Plate Grip DOL TC 20:0 TCLL -0.58 14-16 >918 240 M18SHS 244/190 Lumber DOL BC 0.83 Vert(CT) TCDL 10:0 1.15 WB Horz(CT) 0.10 n/a Rep Stress Incr YES 0,30 9 n/a **BCLL** 0.0 FT = 20%Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.24 14-16 >999 240 Weight: 322 lb BCDL 10.0

> BRACING-TOP CHORD

WEBS

JOINTS

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1

BOT CHORD 2x6 SP No.1 \*Except\*

12-15: 2x8 SP 2400F 2.0E

WERS 2x4 SP No.2

REACTIONS.

(size) 1=0-5-8, 9=0-5-8

Max Horz 1=-155(LC 10)

Max Uplift 1=-106(LC 12), 9=-126(LC 13) Max Grav 1=1834(LC 2), 9=1907(LC 2)

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

1-2=-3309/643, 2-4=-2883/610, 4-5=-623/266, 5-6=-624/265, 6-8=-2882/597, TOP CHORD

8-9=-3320/609

1-16=-434/2917, 14-16=-434/2919, 13-14=-239/2494, 11-13=-415/2830, 9-11=-415/2825 BOT CHORD 6-13=0/756, 8-13=-790/251, 8-11=-29/293, 4-14=0/759, 2-14=-803/252, 2-16=-25/297, WEBS

4-17=-2041/430, 6-17=-2041/430

### NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6,0psf; BCDL=6,0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Extenor(2) 0-2-12 to 4-8-12, Interior(1) 4-8-12 to 22-6-0, Exterior(2) 22-6-0 to 27-0-0, Interior(1) 27-0-0 to 46-2-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) All plates are MT20 plates unless otherwise indicated.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide 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) except (jt=lb) 1=106, 9=126,



Structural wood sheathing directly applied or 3-10-12 oc purlins.

8-13, 2-14, 4-17, 6-17

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

1 Row at midpt

1 Brace at Jt(s): 17

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 slability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, rection and bracing of trusses and truss systems, see 

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



Glover Residence Job Truss Truss Type Qly E15280078 J0121-0101 В1 COMMON Job Reference (optional) 8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Jan 6 15:43:47 2021 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:pdPzA5by7CWsCzZcmYVa69zy2HB-ot\_JxfojQabzsxXsh4SrevsJtINEPfsZDwVPPPzy1Pg 1-4-8 20-0-0

Scale = 1:41.4

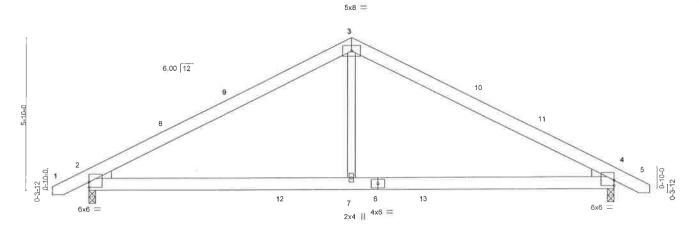


Plate Offsets (X,Y) [	2:Edge,0-2-7], [4:Edge,0-2-7]	10-0-0	10-0-0				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	Lumber DOL 1.	15 TC 0.49 15 BC 0.50 S WB 0.26	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         0.14         4-7         >999         240           Vert(CT)         -0.12         4-7         >999         240           Horz(CT)         0.02         4         n/a         n/a	PLATES GRIP MT20 244/190 Weight: 116 lb FT = 20%			

BRACING-

TOP CHORD

**BOT CHORD** 

20-0-0

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

Rigid ceiling directly applied or 8-7-12 oc bracing.

LUMBER-

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

WEDGE

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

REACTIONS.

(size) 4=0-3-0, 2=0-3-0 Max Horz 2=73(LC 11) Max Uplift 4=-179(LC 8), 2=-179(LC 9) Max Grav 4=879(LC 2), 2=879(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown, TOP CHORD 2-3=-1198/976, 3-4=-1198/976

BOT CHORD 2-7=-704/955, 4-7=-704/955

WEBS 3-7=-557/561

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

- 2) Wind: ASCE 7-10; Vull=130mph (3-second gusl) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-2-2 to 3-2-11, Interior(1) 3-2-11 to 10-0-0, Exterior(2) 10-0-0 to 14-4-13, Interior(1) 14-4-13 to 21-2-2 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1,60 plate grip DOL =1.60
- 3) This truss has been designed for a 10,0 psf bottom chord live load nonconcurrent with any other live loads.
  4) \*This truss has been designed for a live load of 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) except (it=lb) 4=179, 2=179.

10-0-0



January 6,2021

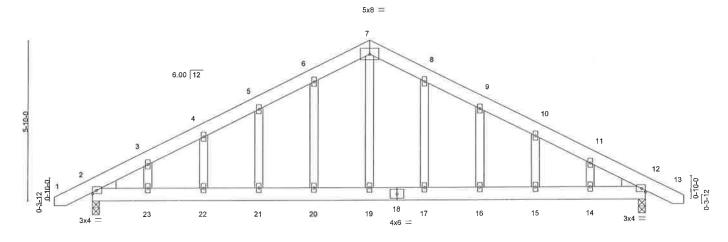
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE Mil-7473 rev. 5/19/2020 BEFORE USE.

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 oclapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, crection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2870 Crain Highway, Suite 203 Waldorf, MD 20801



Job	Truss	Truss Type	Qly	Ply	Glover Residence
					£15280079
J0121-0101	B1GE	GABLE	1	1	
					Job Reference (optional)
Comtech, Inc. Favett	eville, NC - 28314,			8.330 s Oc	7 2020 MiTek Industries, Inc. Wed Jan 6 15:43:48 2021 Page 1
	,	ID.	:pdPzA5by7C	WsCzZcm\	Va69zy2HB-G3Xh9?pMBujqT562Foz4A7PY0ikr89HiSaFzxszy1Pf
-1-4-8		10-0-0			20-0-0 21-4-8
1-4-8		10-0-0			10-0-0 1-4-8

Scale = 1:39.3



t	10-0-0		10-0-0	1
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.21 BC 0.41 WB 0.12 Matrix-S	DEFL.         in (loc)         I/defl         L/d           Vert(LL)         -0.09         15-16         >999         360           Vert(CT)         -0.14         15-16         >999         240           Horz(CT)         0.02         12         n/a         n/a           Wind(LL)         0.10         21-22         >999         240	PLATES GRIP MT20 244/190 Weight: 145 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

20.0.0

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

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

LUMBER-

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

WEDGE

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

REACTIONS. (size) 12=0-3-0, 2=0-3-0

Max Horz 2=113(LC 12) Max Uplift 12=-198(LC 13), 2=-198(LC 12) Max Grav 12=868(LC 1), 2=868(LC 1)

FORCES. (lb) - Max, Comp./Max. Ten. - All forces 250 (lb) or less except when shown TOP CHORD 2-3=-1110/300, 3-4=-1007/328, 4-5=-971/368, 5-6=-943/410, 6-7=-920

RD 2-3=-1110/300, 3-4=-1007/328, 4-5=-971/368, 5-6=-943/410, 6-7=-920/460, 7-8=-920/460, 8-9=-943/410, 9-10=-971/368, 10-11=-1007/328, 11-12=-1110/300

10.00

BOT CHORD 2-23=-172/855, 22-23=-172/855, 21-22=-172/855, 20-21=-172/855, 19-20=-172/855, 17-19=-172/855, 16-17=-172/855, 15-16=-172/855, 14-15=-172/855, 12-14=-172/855

WEBS 7-19=-221/479

### NOTES-

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

- 2) Wind: ASCE 7-10; Vull=130mph (3-second gust) Vasd=103mph; TCDL=6,0psf; BCDL=6,0psf; h=15ft; Cal, II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1,60 plate grip DOL=1,60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable sluds spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

will fit between the bottom chord and any other members.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=198, 2=198.



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 property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see 

ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2870 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road

Glover Residence Truss Type Qly Job Truss Ply F15280080 J0121-0101 М1 MONOPITCH Job Reference (optional) 8,330 s Oct 7 2020 MiTek Industries, Inc. Wed Jan 6 15:43:48 2021 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:pdPzA5by7CWsCzZcmYVa69zy2HB-G3Xh9?pMBujqT562Foz4A7PXMikw833iSaFzxszy1Pf 12-0-0 6-0-0 Scale = 1:27.6 4 5 3×4-H 4.00 12 10 3x4 = 3 0-3-12 8 2x4 || 4x4 = 4x6 = 6-0-0 [2:0-0-0,0-1-10] Plate Offsets (X,Y)-**PLATES** GRIP LOADING (psf) SPACING-2-0-0 CSI. (loc) L/d Plate Grip DOL TC Vert(LL) 0.03 2-8 >999 240 MT20 244/190 20.0 1.15 0.32 TCLL Lumber DOL 1.15 ВС 0.41 Vert(CT) -0,03 2-8 >999 240 TCDL 10.0 0.0 Rep Stress Incr YES WB 0.45 Horz(CT) 0.01 n/a n/a BCLL FT = 20% Weight: 78 lb 10.0 Code IRC2015/TPI2014 Matrix-S BCDL BRACING-LUMBER-2x6 SP No.1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, TOP CHORD BOT CHORD 2x6 SP No.1 except end verticals, Rigid ceiling directly applied or 9-0-4 oc bracing. 2x4 SP No.2 **BOT CHORD** WERS

REACTIONS.

(size) 7=Mechanical, 2=0-3-8

Max Horz 2=142(LC 8)

Max Uplift 7=-203(LC 8), 2=-200(LC 8) Max Grav 7=470(LC 1), 2=543(LC 1)

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

TOP CHORD 2-3=-766/630

BOT CHORD 2-8=-729/657, 7-8=-729/657 WEBS 3-8=-330/267, 3-7=-698/773

### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6,0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-7 to 3-3-6, Interior(1) 3-3-6 to 12-0-0 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 reclangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=203, 2=200.

SEAL 036322 VGINEER January 6,2021

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, crection 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



Qty Ply Glover Residence Truss Truss Type Job E15280081 M1GE GABLE J0121-0101 Job Reference (optional) 8,330 s Oct 7 2020 MiTek Industries, Inc. Wed Jan 6 15:43:49 2021 Page 1 Comtech, Inc. Fayetteville, NC - 28314, ID:pdPzA5by7CWsCzZcmYVa69zy2HB-kF54MLq\_yBrh5FgFoVUJjKykM672taEsgE\_WTlzy1Pe 6-0-0 1-4-8 Scale = 1:27.6 3×4\_H 4.00 12 3x4 = 3x5 0-3-12 12 16 15 14 13 11 10 4x4 =6x6 = 6-0-0 Plate Offsets (X,Y)--[2:0-0-0,0-1-10] **PLATES** DEFL. L/d LOADING (psf) SPACING-2-0-0 CSI în (loc) I/defl 244/190 >999 240 MT20 Vert(LL) 0:03 13 TCLL 20.0 Plate Grip DOL 1.15 TC 0:17 >999 240 -0.03 13 TCDL 10.0 Lumber DOL 1.15 BC 0.22 Vert(CT) -0:01 n/a n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.20 Horz(CT) 11 Weight: 89 lb FT = 20%Code IRC2015/TPI2014 Matrix-S BCDL 10.0 LUMBER-BRACING-Structural wood sheathing directly applied or 6-0-0 oc purlins, TOP CHORD 2x6 SP No.1 TOP CHORD BOT CHORD 2x6 SP No.1 except end verticals. Rigid ceiling directly applied or 8-5-5 oc bracing. 2x4 SP No.2 BOT CHORD **WEBS** 

JOINTS

1 Brace at Jt(s): 18

OTHERS REACTIONS.

(size) 11=Mechanical, 2=0-3-8

Max Horz 2=204(LC 8)

2x4 SP No.2

Max Uplift 11=-300(LC 8), 2=-290(LC 8) Max Grav 11=470(LC 1), 2=543(LC 1)

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

TOP CHORD 2-3=-760/729, 3-4=-688/709, 4-5=-664/714

BOT CHORD 2-16=-839/631, 15-16=-839/631, 14-15=-839/631, 13-14=-839/631, 12-13=-839/631,

11-12=-839/631

5-14=-292/188, 5-18=-672/896, 17-18=-659/877, 11-17=-685/911

### WEBS

- Wind: ASCE 7-10; Vull=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated
- 4) Gable sluds spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bollom 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=300, 2=290.

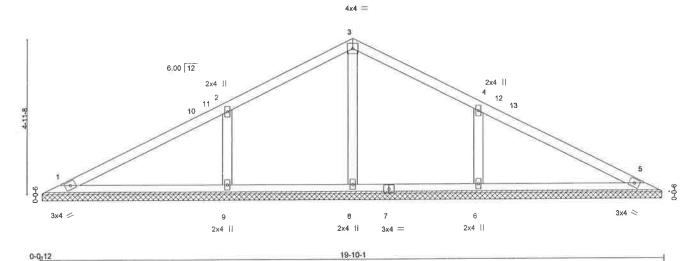




Glover Residence Qtv Ply Job Truss Truss Type F15280082 V1 VALLEY J0121-0101 Job Reference (optional)

8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Jan 6 15:43:50 2021 Page 1
ID:pdPzA5by7CWsCzZcmYVa69zy2HB-CSfSZhqcjVzYjPFRMD?YFYUtlWUDc4g?vuk30kzy1Pd
19-10-1 Fayetteville, NC - 28314, Comtech, Inc. 9-11-0

Scale = 1:34.5



0-0-12 Plate Offsets (X,Y)	[4:0-0-0,0-0-0]		19-9-5
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0,26 BC 0,16 WB 0,06 Matrix-S	DEFL.         in (loc)         I/defl         L/d         PLATES         GRIP           Vert(LL)         n/a         -         n/a         999         MT20         244/190           Vert(CT)         n/a         -         n/a         999         MT20         244/190           Horz(CT)         0.00         5         n/a         n/a         Weight: 74 lb         FT = 20%

LUMBER-

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

0-0112

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 19-8-9.

(lb) = Max Horz 1=61(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 9, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 8 except 9=461(LC 23), 6=461(LC 24)

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

WEBS

2-9=-338/235, 4-6=-338/235

### NOTES-

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

 Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-7-13 to 5-0-10, Interior(1) 5-0-10 to 9-11-0, Exterior(2) 9-11-0 to 14-3-13, Interior(1) 14-3-13 to 19-2-4 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.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 9, 6.

6) Non Standard bearing condition. Review required.



🛕 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 anage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of truss and truss systems, see

ANS/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2870 Crain Highway, Sulle 203 Waldorf, MD 20601



Glover Residence Job Truss Truss Type Qlv Ply E15280083 J0121-0101 V2 VALLEY Job Reference (optional) 8,330 s Oct 7 2020 MiTek Industries, Inc. Wed Jan 6 15:43:51 2021 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:pdPzA5by7CWsCzZcmYVa69zy2HB-geDqn1rEUp5OKZqdwwWnol14lvrlLX688YTdYBzy1Pc 15-10-1 Scale = 1:27:8 4x4 = 3 6.00 12 2x4 || 2x4 II 12 6 3x4 < 3x4 = 2x4 || 2x4 II 2x4 || 0-0-12 Plate Offsets (X,Y) [4:0-0-0,0-0-0]

BCDL LUMBER-

TCLL

TODL

**BCLL** 

LOADING (psf)

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

20,0

10.0

10.0

0.0

BRACING-

Vert(LL)

Vert(CT)

Horz(CT)

TOP CHORD BOT CHORD (loc)

5

I/defl

n/a

n/a

n/a

in

n/a

n/a

0.00

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

**PLATES** 

Weight: 57 lb

MT20

GRIP

244/190

FT = 20%

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

999

999

n/a

REACTIONS.

All bearings 15-8-9,

(lb) -Max Horz 1=-48(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=272(LC 1), 8=344(LC 23), 6=344(LC 24)

CSI.

TC 0.15

вс

WB 0.05

Matrix-S

0.08

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

WEBS 2-8=-260/202, 4-6=-260/202

### NOTES-

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

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-7-13 to 5-0-10, Interior(1) 5-0-10 to 7-11-0, Exterior(2) 7-11-0 to 12-3-13, Interior(1) 12-3-13 to 15-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

2-0-0

1,15

1.15

YES

- 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) 1, 8, 6.

6) Non Standard bearing condition. Review required.



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 slability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, crection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Glover Residence Job Truss Truss Type Qty Ply F15280084 VALLEY J0121-0101 VЗ Job Reference (optional) 8.330 s Oct 7 2020 MiTek Industries, Inc. Wed Jan 6 15:43:51 2021 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:pdPzA5by7CWsCzZcmYVa69zy2HB-geDqn1rEUp5OKZqdwwWnol12\_vprLX688YTdYBzy1Pc 11-10-1 Scale = 1:20.9 4x6 = 2 6,00 12 3x4 < 3x4 / 2x4 || **PLATES** GRIP LOADING (psf) DEFL. I/defl L/d CSL īn (loc) SPACING-2-0-0 MT20 244/190 Vert(LL) 999 0.29 n/a TC n/a TCLL 20.0 Plate Grip DOL 1.15 ВС Vert(CT) 999 0.20 n/a n/a 1.15 TCDL 10.0 Lumber DOI Horz(CT) 3 n/a WB 0.05 0.00 n/a Rep Stress Incr YES BCLL 0.0 FT = 20% Code IRC2015/TPI2014 Weight: 38 lb Matrix-S BCDL 10.0

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

REACTIONS.

(size) 1=11-8-9, 3=11-8-9, 4=11-8-9

Max Horz 1=35(LC 9)

Max Uplift 1=-26(LC 12), 3=-32(LC 13)

Max Grav 1=195(LC 23), 3=195(LC 24), 4=456(LC 1)

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

WEBS

### NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-7-13 to 5-0-10, Interior(1) 5-0-10 to 5-11-0, Exterior(2) 5-11-0 to 10-3-13, Interior(1) 10-3-13 to 11-2-4 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 lall 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) 1, 3,
- 6) Non Standard bearing condition. Review required.



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

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

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

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design in 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 slability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, crection and bracing of trusses and truss systems, see Assistant Private Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801



Glover Residence Truss Type Qty Ply Job Truss E15280085 J0121-0101 V4 VALLEY Job Reference (optional)

8,330 s Oct 7 2020 MiTek Industries, Inc. Wed Jan 6 15:43:52 2021 Page 1
ID:pdPzA5by7CWsCzZcmYVa69zy2HB-8qnC\_NssF6DFyiPpUe10LzaF3JB?4\_kINCDA4dzy1Pb Fayetteville, NC - 28314, Comtech, Inc. 3-11-0 Scale = 1:14.5 4x4 = 6,00 12 9-0-0 900 3x4 < 2x4 || 3x4 / 7-10-1 GRIP DEFL. I/defI L/d **PLATES** LOADING (psf) SPACING-2-0-0 CSI. (loc) 244/190 20.0 Plate Grip DOL 1.15 TC 0.14 Vert(LL) n/a n/a 999 MT20 TCLL TCDL 10.0 Lumber DOL 1.15 вс 0.08 Vert(CT) n/a n/a 999 YES WB 0.02 Horz(CT) 0.00 3 n/a n/a **BCLL** 0.0 Rep Stress Incr Weight: 24 lb FT = 20% BCDL 10.0 Code IRC2015/TPI2014 Matrix-P **BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

2x4 SP No.2 OTHERS

> 1=7-8-9, 3=7-8-9, 4=7-8-9 (size)

Max Horz 1=-21(LC 8)

Max Uplift 1=-21(LC 12), 3=-25(LC 13)

Max Grav 1=133(LC 1), 3=133(LC 1), 4=256(LC 1)

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

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Extenor(2) 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3,
- 6) Non Standard bearing condition. Review required.



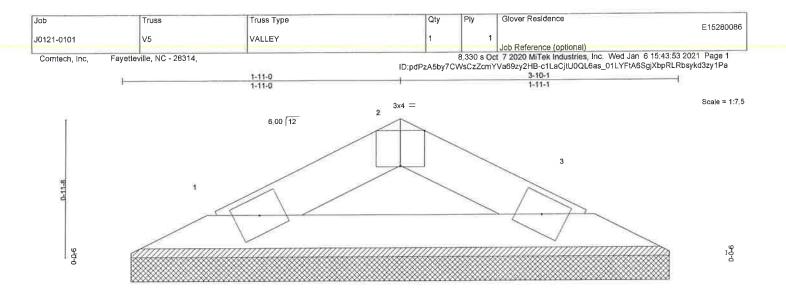
Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

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

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3x4 /

3x4 <

Structural wood sheathing directly applied or 3-10-1 oc purlins.

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

	0-12 -0-12	3-10-1 3-9-5								
Plate Offsets (X,Y)	[2:0-2-0,Edge]									
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code (RC2015/TP	2-0-0 1.15 1.15 YES I2014	CSI. TC 0.03 BC 0.06 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 3	I/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 10 lb	<b>GRIP</b> 244/190 FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

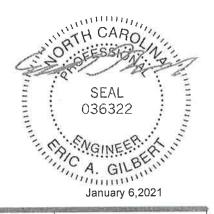
TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1

(size) 1=3-8-9, 3=3-8-9 Max Horz 1=-8(LC 10)

Max Uplift 1=-6(LC 12), 3=-6(LC 13) Max Grav 1=101(LC 1), 3=101(LC 1)

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

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vull=130mph (3-second gust) Vasd=103mph; TCDL=6,0psf; BCDL=6,0psf; h=15ft; Cal. 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) 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) 1, 3.
- 6) Non Standard bearing condition. Review required,



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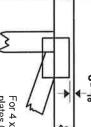
### Symbols

# PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.

Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0-  $v_{16}$ " from outside edge of truss.

||

This symbol indicates the required direction of slots in connector plates.

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

### PLATE SIZE

4 × 4

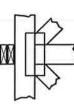
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

### BEARING



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

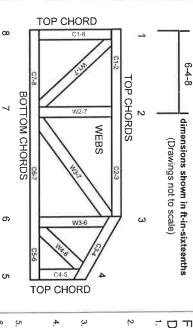
### Industry Standards:

ANSI/TPI1: National Design Specification for Metal
Plate Connected Wood Truss Construc

DSB-89:

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

## 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

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

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

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

# **General Safety Notes**

## Failure to Follow Could Cause Property Damage or Personal Injury

- 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 ANS/TPI 1.

ō

Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.

7.

- 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,

9

- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 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 specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. 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.
- 18. 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 and pictures) before use. Reviewing pictures alone is not sufficient.
- 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.