

### All Walls Shown Are Considered Load Bearing

	Conne	Nail Information				
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
	THD410	USP	Varies	16d/3-1/2"	10d/3"	

▲ = Indicates Left End of Truss (Reference Engineered Truss Drawing) Do Not Erect Trusses Backwards

		Products		
PlotID	Length	Product	Plies	Net Qty
GDH	21' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2
BM2	5' 0"	1-3/4"x 14" LVL Kerto-S	2	2
ВМ3	22' 0"	1-3/4"x 23-7/8" LVL Kerto-S	2	2



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 1500#. 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#.

Neil Baggett

LOAD CHART FOR JACK STUDS (BASED ON TABLES R502.5(1) & (b))

DRAWN BY Neil Baggett
SALESMAN Neil Baggett Neil Baggett 1/30/2019 COUNTY

Mohler Homes 3000 B0119-0149

J0119-0149

JOB NAME BUILDER QUOTE PLAN THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. 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

truss delivery package or online @ sbcindustry.com

SEAL DATE

Hatch Legend Padded HVAC Tray Ceiling 2nd Floor Walls @ 8' 1 1/2" Flush Beam

Drop Beam

**Truss Placement Plan** SCALE: 1/4" = 1'

$\wedge$				ORDE	R DATE	01	/16/19		QUOTE #		B0119-0149
	OF 8 FLOOR			DELIV	ERY DATE	- 1	1		CUSTOM	ER ACCT #	0000007229
-	OF & FLOOR			DATE (	OF INVOIC	E /	1		CUSTOM	ER PO#	
				ORDEI	RED BY	Lo	rraine Mohler		INVOICE	#	
load Industrial Park eville, N.C. 28309 (4				COUN.	TY	Ha	arnett		TERMS		
Office: (919) 816-01				SUPER	RINTENDA	<b>NT</b> Lo	rraine Mohler		SALES R	EP	Neil Baggett
				JOBSI	TE PHONE	# (9	10) 303- 1507		SALES A	REA	Neil Baggett
Mohler Homes	Inc	1.1	OB NAME: I	ot 22 O	uail Glen			LOT	# 22 SI	JBDIV: Quail (	Glen
		- 1				O. History	. 2000				
148 Rim Road			IODEL:Floo			G: Hickory	7 3000	JOB	CATEGORY	': Residential -	- F100r
ayetteville, N	C 28314		ELIVERY INS	TRUCTIO	ONS:						
910) 221-9901											
Nohler Homes	Inc										
nomer momes	, 1110.	s	PECIAL INST	RUCTION	NS:						
larnett County	y, NC									PLAN SE	AL DATE:
											BY DATE
DING DEPARTM	IENT OVER	HANG INF	O HEEL HE	IGHT	00-04-05	REQ.	LAYOUTS	REQ. ENGIN	IEERING	QUOTE N	B 01/15/19
Order	END CU									LAYOUT N	
	PLUMB	NO	GABLE S	TUDS	16 IN. OC		JOBSITE 1		JOBSITE 1	CUTTING N	B 01/10/19
	CCEC LO	DADING	TCIL-TCE	L-BCLL-BCE	DL STRESS INC	CR.	TI OOD TOUG	C CDACING	04 0 INL O O	(TVD.)	
OOR TRU		FORMAT		0.0,0.0,5.0		┤ '	LOOR TRUS	o oracing:	24.0 IN. O.C	. (114.)	
OOR QTY	DEPTH	BASE		END T	YPE INT	BEARING	REACTIO	NIC 2MC			
OFILE PLY	ID	SPAN	SPAN	LEFT R		LOCATION		NS			
	01-02-00	1		₩=	- 1		Joint 30	Joint 31	Joint 32	Joint 33	Joint 34
1	ET1	33-11-0	0 33-11-00	==			28.1 lbs.	127.2 lbs.	151.1 lbs	. 145.5 lbs	s. 147.0 lbs.
	01-02-00	1		₩=	<b></b>		Joint 19	Joint 20	Joint 21	Joint 22	Joint 23
1	ET2	21-05-0	8 21-05-08				62.8 lbs.	152.0 lbs.	145.5 lbs	. 147.0 lbs	s. 146.6 lbs.
	01-02-00		_	₩	ᆲᅵ		Joint 18	Joint 24	Joint 30		
5	F01	33-11-0	0 33-11-00				810.4 lbs 147.7 lbs	2182.9 lbs. 1385.5 lbs.	817.7 lbs 143.8 lbs		
							147.7 IDS.	1303.3 IDS.	143.0 105		
1 1		ı	1				L 1-1-4 00	I-i-+ oo	Infint O.4	I-i-t OF	I-i-+ 00
1	01-02-00 F02	37-11-0	0 37-11-00	IŒI	<u> </u>		Joint 22 43.9 lbs.	Joint 23 178.2 lbs.	Joint 24 72.8 lbs.	Joint 25 596.2 lbs	Joint 28 s. 962.3 lbs.
	102	1 0, 110	0, 1, 00				10.6 lbs.	50.8 lbs.	-1.9 lbs	106.6 lbs	
<u> </u>	01-02-00	1		ا 📻 ا	<b></b>		Joint 10	Joint 16			
4	F03	17-01-0	8 17-01-08				921.9 lbs.	921.9 lbs.			
							468.6 lbs.	468.6 lbs.			
	01-02-00			-			Joint 24	Joint 30	Joint 36		
1	F04	37-11-0	0 37-11-00				1678.8 lbs. 1004.9 lbs.	2089.0 lbs. 1255.5 lbs.	822.0 lbs 149.4 lbs		
							1004.9108.	1200.0 108.	143.4 108		
1 1		1	1		_ ' '		Listan	1-5-1-0-1	1-1 1 00	1 1 1 22	
1	01-02-00 F05	37-11-0	0 37-11-00	💷	<u></u>		Joint 21 152.6 lbs.	Joint 24 1347.6 lbs.	Joint 30 2125.1 lbs	Joint 36 s. 815.4 lbs	•
'	100	37-11-0	<u> </u>				-185.4 lbs	439.0 lbs.	1325.4 lbs		
1 1	01-02-00	1	ĺ	<del> </del>	<b>⇒</b> l l		Joint 13	Joint 16	Joint 22		
6	F06	21-05-0	8 21-05-08	Щ_	<u> </u>		179.7 lbs.	1411.3 lbs.	870.3 lbs		
			-				-125.8 lbs.	561.1 lbs.	236.3 lbs		
	01-02-00	1		==	<b>-</b>		Joint 16	Joint 26			
4	F07	21-05-0	8 21-05-08	┌╩┤			1160.2 lbs.	1160.2 lbs.			
							540 8 lbs	595 1 lbs			

REQ. QUOTE DATE

11

Reaction Summary of Order

DATE 01/30/19 PAGE 1

J0119-0149

ORDER#

D005 0 51000	DEI	LIVERY DATE	11		CUSTON	MER ACCT #	F 0000007	229	
ROOF & FLOOR TRUSSES & BEAMS	DA.	TE OF INVOICE	1.1		CUSTON	MER PO#			
Reilly Road Industrial Park P.O. Box 40408	OR	DERED BY	Lorraine Mohler		INVOICE	#			
Fayetteville, N.C. 28309 (910) 864-TRUS	co	UNTY	Harnett		TERMS				
Cary Office: (919) 816-0105	SUI	PERINTENDANT	Lorraine Mohler		SALES F	REP	Neil Bagg	gett	
	JOE	BSITE PHONE #	(910) 303- 1507		SALES A	REA	Neil Bago	gett	
Mohler Homes, Inc.	JOB NAME: Lot 2:	2 Quail Glen		LOT #	22 <b>S</b>	<b>UBDIV</b> : Qua	il Glen		
្ទុំ 2148 Rim Road STE 101	MODEL:Floor	TAG: H	ickory 3000	JOB C	CATEGORY: Residential - Floor				
Fayetteville, NC 28314	DELIVERY INSTRUC					111100100111			
2148 Rim Road STE 101 Fayetteville, NC 28314 (910) 221-9901									
· ,									
ទ្ធ Mohler Homes, Inc. <sup>អ្ន</sup>	SPECIAL INSTRUCT	FIONE:							
	SPECIAL INSTRUCT	TIONS:							
<sup>™</sup> Harnett County, NC						D. 444	0E41 B4TE	h1/6	
						PLAN	SEAL DATE: BY	N/A DATE	
BUILDING DEPARTMENT OVERHANG	NEO HEEL HEIGHT	00-04-05	REQ. LAYOUTS	REQ. ENGINE	FRING	QUOTE		1/15/19	
	URN					LAYOUT		1/15/19	
	GABLE STUDS	16 IN. OC	JOBSITE 1	JO	BSITE 1	CUTTING	NB 0	1/10/19	
FLOOR TRUSSES LOADING	тецтерь-вец	-BCDL STRESS INCR.	FLOOR TRUSS	CDACING: 0	4011100				
FLOOR IRUSSES INFORM			FLOOR IRUSS	SPACING: 24	4.0 IN. O.C	z. (TYP.)			
FLOOR QTY DEPTH BA		TYPE INT BEA	RING REACTION	VS.					
PROFILE PLY ID SPA	AN SPAN LEFT	RIGHT SIZE LOC	ATION						
7 01-02-00 20-0 20-0 13-0 13-0 13-0 13-0 13-0 13-0 13-0 1	5-00   13-05-00		Joint 12 896.4 lbs. 443.0 lbs. Joint 8 717.9 lbs. 360.5 lbs. Joint 13 1459.6 lbs. 1026.1 lbs.	Joint 18 896 4 lbs. 443 0 lbs. Joint 12 717.9 lbs. 389.7 lbs. Joint 16 343.4 lbs. -86.0 lbs.					
QTY ITEM TYPE SIZ	-	ENGTH -T-IN-16	PART NUMBER			NOTES	1		
2 LVL Beams (Sized) LVL, 1-3/4" x	< 11-7/8" (S)	21-00-00		GDH					
2 LVL Beams (Sized) LVL, 1-3/4	" x 14" (S)	05-00-00		BM2					
2 LVL Beams (Sized) LVL, 1-3/4	" x 24" (S)	24-00-00		24" LVL is < (sm) BM3	< <only>&gt;</only>	sold in 20, 24	, 28 or 48 foot le	engths!!!	
1 Hangers, USP THD	1	1		SIMPSON (					

REQ. QUOTE DATE ORDER DATE

11

01/16/19

**Reaction Summary of Order** 

DATE 01/30/19 PAGE 2

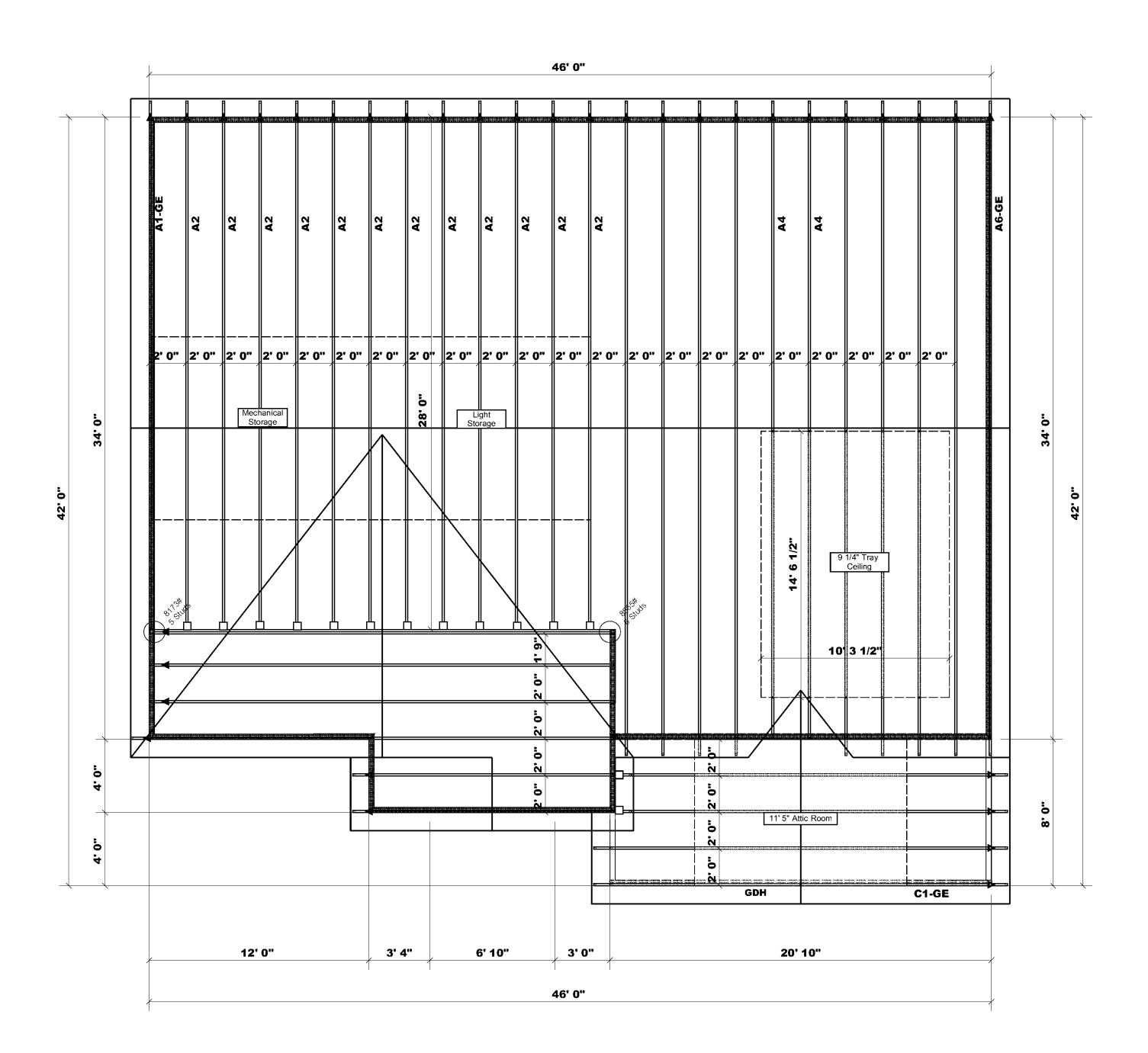
J0119-0149

B0119-0149

ORDER # QUOTE #

	Type (Asc)	(cle)	•	
REVIEWS	,			
Brad Sutton	•			BUILDING
1/27/2019 10:04:03 AM				
1/27/2019 10:04:03 AM				,
I/27/2019 10:04:03 AM				,
1/27/2019 10:04:03 AM		,		
1/27/2019 10:04:03 AM		y		
1/27/2019 10:04:03 AM		у.		

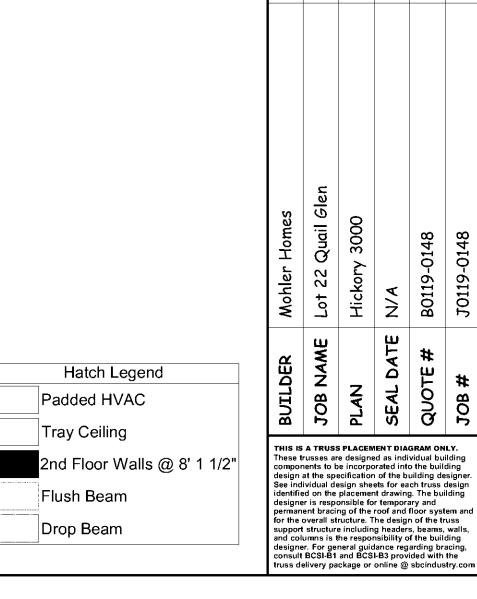
Ciose



	Conne	ion	Nail Information					
Sym	Product	Manuf	Qty	Supported Member	Header	Truss		
	HUS26	USP	14	Varies	16d/3-1/2"	16d/3-1/2"		

▲ = Indicates Left End of Truss (Reference Engineered Truss Drawing) Do Not Erect Trusses Backwards

All Walls Shown Are Considered Load Bearing



соттесн

**ROOF & FLOOR TRUSSES & BEAMS** 

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#.

Neil Baggett

3400 1

6800 2

10200 3

13600 4

17000 5

DRAWN BY Neil Baggett
SALESMAN Neil Baggett

Neil Baggett

B0119-0148

QUOTE;

J0119-0148

1/30/2019

DATE REV.

LOAD CHART FOR JACK STUDS (BASED ON TABLES R502.5(1) & (b)) NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER

2550 1

5100 2

7650 3

10200 4

12750 5

15300 6

1700 1

3400 2

5100 3

6800 4

8500 5

10200 6

11900 7 13600 8

15300 9

Harnett

COUNTY

Truss Placement Plan SCALE: 1/4" = 1'

### **Reaction Summary of Order**

**ROOF & FLOOR** ComTech | TRUSSES & BEAMS Reilly Road Industrial Park P.O. Box 40408 Fayetteville, N.C. 28309 (910) 864-TRUS Cary Office: (919) 816-0105

**REQ. QUOTE DATE** ORDER # J0119-0148 01/16/19 ORDER DATE QUOTE # B0119-0148 **DELIVERY DATE** 11 **CUSTOMER ACCT#** 0000007229 11 DATE OF INVOICE CUSTOMER PO# ORDERED BY Lorraine Mohler **INVOICE #** COUNTY Harnett **TERMS** SUPERINTENDANT Lorraine Mohler Neil Baggett SALES REP JOBSITE PHONE # (910) 303- 1507 Neil Baggett **SALES AREA** 

Mohler Homes, Inc. 2148 Rim Road STE 101 Fayetteville, NC 28314 (910) 221-9901

JOB NAME: Lot 22 Quail Glen LOT # 22 SUBDIV: Quail Glen MODEL: Roof TAG: Hickory 3000 JOB CATEGORY: Residential - Roof

**DELIVERY INSTRUCTIONS:** 

Mohler Homes, Inc.

SPECIAL INSTRUCTIONS:

Harnett County, NC

PLAN SEAL DATE: N/A

BUILDING DEPARTMENT	OVERH/	ANG INFO	HEEL HEIGHT	00-04-05	R	EQ.	LAYOUTS		REQ.	EN	GINEERING		QUOTE	NB	01/15/19
Roof Order	END CUT	RETURN											LAYOUT	NB	01/15/19
	PLUMB	NO	GABLE STUDS	16 IN. OC			JOBSITE	1			JOBSITE	1	CUTTING	NB	01/10/19

ROOF T	RUS	SES		ADING	TCLL-TCDL-BO		_	RESS INCR.	ROO	OF TRUSS SP	ACING:24.0	IN. O.C. (TYP	.)	
			IIN	FORMATION TYPE	20.0,10.0,0			1.15				•		
PROFILE	QTY PLY	TOP	BOT	ID	BASE O/A	TOP	BER BOT	OVER LEFT	RIGHT	REACTION	S			
	1	7.00	0.00	GABLE A1-GE	28-00-00 28-00-00				TUGTT	Joint 2 189.3 lbs. -59.2 lbs.	Joint 18 48.4 lbs. -21.7 lbs.	Joint 19 128.2 lbs -59.5 lbs	Joint 20 174.1 lbs. -43.2 lbs.	Joint 21 199.1 lbs. -40.1 lbs.
	12	7.00	0.00	COMMON A2	28-00-00 28-00-00	2 X 6	2 X 6	00-10-08		Joint 2 1221.1 lbs. -78.8 lbs.	Joint 8 1196.5 lbs. -38.6 lbs.			
	5	7.00	0.00	COMMON A3	34-00-00 34-00-00	2 X 6	2 X 6	00-10-08	00-10-08	Joint 2 1474.1 lbs. -88.9 lbs.	Joint 8 1474.1 lbs. -88.9 lbs.			
	2	7.00	0.00	ROOF A4	34-00-00 34-00-00	2 X 6	2 X 6	00-10-08		Joint 2 1402.5 lbs. -88.5 lbs.	Joint 9 1364.0 lbs. -66.7 lbs.			
	3	7.00	0.00	ROOF A5	34-00-00 34-00-00	2 X 6	2 X 6	00-10-08	00-10-08	Joint 2 1401.8 lbs. -88.4 lbs.	Joint 9 1417.4 lbs. -79.1 lbs.			
	1	7.00	0.00	GABLE A6-GE	34-00-00 34-00-00	2 X 6	2 X 6	00-10-08	00-10-08	Joint 2 197.3 lbs. -55.8 lbs.	Joint 20 163.6 lbs. 1.9 lbs.	Joint 22 257.0 lbs. -116.3 lbs.	Joint 23 147.6 lbs. -67.6 lbs.	Joint 24 179.9 lbs. -78.8 lbs.
AIL	1	9.00	0.00	GABLE B1-GE	13-05-08 13-05-08	2 X 6	2 X 6	00-10-08	00-10-08	Joint 2 580.4 lbs. -37.1 lbs.	Joint 8 580.4 lbs. -37.1 lbs.			
	1	9.00	0.00	COMMON B2	13-05-08 13-05-08	2 X 6	2 X 6	00-10-08	00-10-08	Joint 2 580.4 lbs. -37.1 lbs.	Joint 4 580.4 lbs. -37.1 lbs.			
aФ	1	9.00	0.00	GABLE B3-GE	25-05-08 25-05-08	2 X 6	2 X 6	01-00-00		Joint 2 232.0 lbs. -31.6 lbs.	Joint 14 590.7 lbs. -25.2 lbs.	Joint 17 617.3 lbs. 48.9 lbs.	Joint 18 124.9 lbs. -103.7 lbs.	Joint 19 237.0 lbs. -56.4 lbs.
	2	9.00	0.00	COMMON B4	25-05-08 25-05-08	2 X 6	2 X 6			Joint 1 1052.5 lbs. -47.7 lbs.	Joint 7 1052.5 lbs. -47.7 lbs.			
	1 2 Ply	9.00	0.00	COMMON B5	25-05-08 25-05-08	2 X 6	2 X 8			Joint 1 7590.2 lbs. -343.6 lbs.	Joint 7 7951.0 lbs. -359.5 lbs.			

<b>-</b>	_					_													D/ 1	1 2 0 170	70, 10	1710	
Reaction	Sur	nma	ry of	Ord	er	L	REQ.	QUOT	TE DATE		11					ORD	ER#	ŧ		J	0119-	0148	
$\wedge$							ORDE	R DA	TE	(	01/16	/19				QUO	TE #	ŧ		В	0119	-0148	
/ \							DELIV	/ERY	DATE		11					CUS.	ГОМ	ER A	CCT #	<b>#</b> 0	00000	07229	
ComTecl		OOF & F					DATE	OF IN	VOICE		11					CUS.	ГОМ	IER P	O #				
ı						Γ	ORDE	RED	BY		Lorrai	ne Mohler				INVO	ICE	#					
Reilly Road Industri Fayetteville, N.C.							COUN	ITY			Harne	ett				TER	/IS						
Cary Office: (919			D-T-TROG				SUPE	RINTE	ENDANT		Lorrai	ne Mohler				SALE	SR	EP		N	Neil Baggett		
							JOBS	ITE P	HONE #		(910)	303- 1507				SALES AREA				N	eil Ba	ggett	
Mohler I	lome	s, Inc			JOBI	NAME: Lo	ot 22 C	Quail G	3len					L	OT#	# 22 SUBDIV: Quail Glen							
2148 Rir Fayettev (910) 22	2148 Rim Road STE 101 MODEL:F								TAG:	Hicko	ory 30	00		J	ов с	ATEG	ORY	: Res	identia	al - Ro	oof		
Favettev	Fayetteville, NC 28314 DELIVERY							ONS:															
<sup>0</sup> (910) 22	(910) 221-9901																						
S M-1-11	<u>'</u>																						
S Mohler H	nome	s, inc	•		SPECI	IAL INSTR	UCTIO	NS:															
m.	_																						
• Harnett	Coun	ty, NC	;															F	LAN:	SEAL	DATI	E:	N/A
																				. В		DA	TE
BUILDING DE	PART	MENT	OVER	HẠNG I	NFO !	HEEL HEK	SHT	00-	04-05	REC	). LAY	OUTS	REC	. EN	IGINE	ERING		QUC		NB		01/15	
Roof Order			END CL		TURN			-		_								<b>-</b>	OUT	NB		01/15	_
			PLUME	<u> </u>	40 (	GABLE ST	UDS	16	IN. OC		J(	DBSITE 1			JO	BSITE	1	CUT	TING	NB		01/10	/19
ROOF T	RUS	SES		DADING FORM	_	TCLL-TCDL- 20.0,10.0		-	1.15		RO	OF TRUSS	SPAC	ING	:24.0	IN. C	).C.	(TYP.	)				
PROFILE	QTY	PIT	СН	TYF		BASE			OVE	RHAN	lG	REACTI	ONS										
	PLY	TOP	BOT	I		O/A	_	BOT	LEFT	RI	GHT												
^	1	9.00	0.00		TIC -GE	20-10-0		2 V 10	00-11-00	00.1	11.00	Joint 10		int 1									
	'	9.00	0.00	C1-	-GE	20-09-0	7/2/	2 / 10	00-11-00	00-1	11-00	1441.5 lbs 167.6 lbs			.5 lbs. 6 lbs.								
						1	+-			+		107.0103.		107.	U IDS.								
				AT.	TIC	20-10-0	,					Joint 10	.lc	oint 1	4								
	1	9.00	0.00		2			2 X 10	00-11-00	00-1	11-00	1441.5 lbs			.5 lbs.								
Shareness KS												167.6 lbs.		167.0	6 lbs.								
_				_	TIC	20-06-0						Joint 9		int 1									
$\langle \cdot \rangle$	2	9.00	0.00	C	3	20-05-0	3   2 X 6	5 2 X 10	00-11-00			1389.7 lbs			.9 lbs.								
	2 9.00 0.00 C3 20							1				177.1 lbs.		167.:	2 lbs.								

DATE 01/30/19

PAGE 2

### **ITEMS**

QTY	ITEM TYPE	SIZE	<b>LENGTH</b> FT-IN-16	PART NUMBER	NOTES
1		l <u>.</u>	<b>I</b>		1
14	Hangers, USP	HUS 26			SIMPSON (HUS26)



### Trenco

818 Soundside Rd Edenton, NC 27932

Re: J0119-0149

Mohler/Lot 22 Quail Glen/Harnett

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

Pages or sheets covered by this seal: E12651719 thru E12651730

My license renewal date for the state of North Carolina is December 31, 2019.

North Carolina COA: C-0844



January 30,2019

Gilbert, Eric

**IMPORTANT NOTE:** Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	Mohler/Lot 22 Quail Glen/Harnett
J0119-0149	ET1	GABLE	1	1	E12651719
30113-0143	L11	OABLE		15	Job Reference (optional)

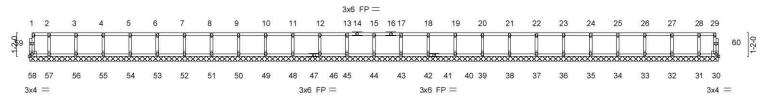
Comtech, Inc., Fayetteville, NC 28309

0-1-8

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Jan 30 12:59:01 2019 Page 1 ID:S5MG8EgBIVMxfeJ50K9uoEzw9E3-Y8yD?Z3sqlZa0QZnsnLllkfT?y7t4zECX99?kQzq9a8

Scale = 1:56.7

3x6 FP =



LOADIN	G (psf)	SPACING- 2-0	0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL 1.	.00	TC	0.06	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 Y	ES	WB	0.03	Horz(CT)	0.00	30	n/a	n/a		
BCDL	5.0	Code IRC2015/TPI201	14	Matri	x-R						Weight: 140 lb	FT = 20%F, 11%E

LUMBER- BRACING-

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)

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

except end verticals.

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

REACTIONS. All bearings 33-11-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 58, 30, 44, 45, 46, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 43, 42, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31

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.



Design valid for use only with Mil 1 eX® connectors. Inis design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

\*\*ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	Mohler/Lot 22 Quail Glen/Harnett	
10110 1110		DECU 508 S. 45 (419) L5		20	E12651	720
J0119-0149	E12	Floor Supported Gable	1	1	Job Reference (optional)	

Comtech Inc.

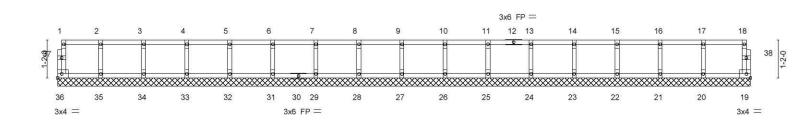
Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Jan 30 12:59:02 2019 Page 1 ID:S5MG8EgBIVMxfeJ50K9uoEzw9E3-0LWcCv3UbbhRda8zPVs\_lxBdZMS3pQULlpuZGszq9a7

Scale = 1:35.7

0-1-8

0-1-8



3				No.		21-5-8					.12	
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	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)	0.00	19	n/a	n/a		
BCDL	5.0	Code IRC2015/TF	PI2014	Matri	x-R						Weight: 89 lb	FT = 20%F, 11%E

LUMBER-BRACING-

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

2x4 SP No.3(flat) **OTHERS** 2x4 SP No.3(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

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

REACTIONS. All bearings 21-5-8.

> (lb) - Max Grav All reactions 250 lb or less at joint(s) 36, 19, 35, 34, 33, 32, 31, 29, 28, 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.



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

\*\*ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Ply Mohler/Lot 22 Quail Glen/Harnett E12651721 J0119-0149 F01 Floor 1 Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Jan 30 12:59:03 2019 Page 1 ID:S5MG8EgBlVMxfeJ50K9uoEzw9E3-UX3\_QF46MvplFkj9zCNDq9kdJlZ0YhNV\_Te6olzq9a6

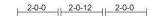
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 2-2-0 oc bracing.

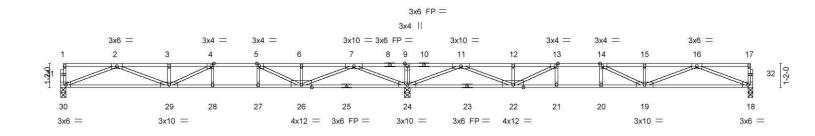
except end verticals.

0-1-8





0-1-8 Scale = 1:56.5



8	16-11-12				<del></del>	16-11-4						
Plate Off	sets (X,Y)			8,Edge], [14:	0-1-8,Edge]							
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.25	19-20	>805	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.34	19-20	>593	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.06	18	n/a	n/a		
BCDL	5.0	Code IRC2015/TI	PI2014	Matri	k-S	100000000000000000000000000000000000000					Weight: 164 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) \*Except\*

25-30: 2x4 SP 2400F 2.0E(flat)

WEBS 2x4 SP No.3(flat)

REACTIONS. (lb/size) 30=755/0-3-0, 24=2183/0-3-8, 18=753/0-3-0

Max Grav 30=818(LC 3), 24=2183(LC 1), 18=810(LC 4)

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

TOP CHORD 2-3=-2746/0, 3-4=-2746/0, 4-5=-2874/0, 5-6=-2059/333, 6-7=-2059/333, 7-9=0/2552,

9-11=0/2552, 11-12=-1997/282, 12-13=-1997/282, 13-14=-2818/0, 14-15=-2714/0,

15-16=-2714/0

**BOT CHORD** 29-30=0/1752, 28-29=0/2874, 27-28=0/2874, 26-27=0/2874, 24-26=-939/608,

22-24=-874/539, 21-22=0/2818, 20-21=0/2818, 19-20=0/2818, 18-19=0/1732 9-24=-281/0, 2-30=-1878/0, 2-29=0/1073, 3-29=-309/0, 7-24=-2480/0, 7-26=0/1726,

5-26=-1288/0, 4-29=-234/405, 11-24=-2477/0, 11-22=0/1720, 16-18=-1857/0,

16-19=0/1059, 15-19=319/0, 14-19=-229/400, 13-22=-1267/0

### NOTES-

WEBS

- 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) 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.





Job Truss Truss Type Qty Ply Mohler/Lot 22 Quail Glen/Harnett E12651722 J0119-0149 F02 **GABLE** 1 Job Reference (optional)

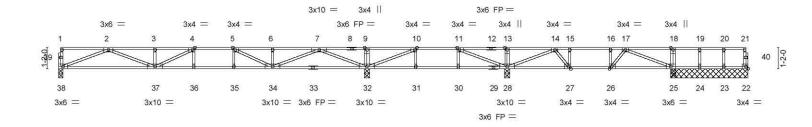
Comtech, Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Jan 30 12:59:04 2019 Page 1 ID:S5MG8EgBlVMxfeJ50K9uoEzw9E3-yjdMdb5k7Dx9tuILXwuSNMHr69yHG9yeD6NgLlzq9a5

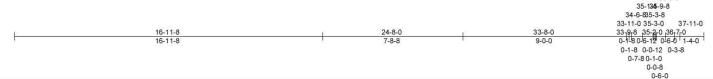
0-1-8

H- 2-6-0 2-0-0 2-1-0 2-0-0

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

0-1-8 Scale = 1:63.3





LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.25 3	6-37	>799	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.35 3	6-37	>585	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.05	32	n/a	n/a		
BCDL	5.0	Code IRC2015/TI	PI2014	Matri	x-S	1000 4040 40000					Weight: 181 lb	FT = 20%F, 11%E

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) 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 4-3-0 except (jt=length) 38=0-3-0, 32=0-3-8, 28=0-3-8.

(lb) - Max Uplift All uplift 100 lb or less at joint(s) 24

Max Grav All reactions 250 lb or less at joint(s) 22, 24, 23 except 38=838(LC 5), 32=1512(LC 3), 25=596(LC 4), 25=559(LC 1), 28=962(LC 4)

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

TOP CHORD 2-3=-2844/0, 3-4=-2844/0, 4-5=-3036/0, 5-6=-2301/0, 6-7=-2301/0, 7-9=0/1360,

9-10=0/1360, 10-11=-316/859, 11-13=0/821, 13-14=0/821, 14-15=-766/123,

15-16=-766/123, 16-17=-766/123

**BOT CHORD** 37-38=0/1801, 36-37=0/3036, 35-36=0/3036, 34-35=0/3036, 32-34=0/893,

31-32=-859/316, 30-31=-859/316, 28-30=-859/316, 27-28=-328/545, 26-27=-123/766,

25-26=-20/716

WEBS 9-32=-259/0, 13-28=-326/0, 18-25=-255/0, 2-38=-1930/0, 2-37=0/1126, 3-37=-257/0,

7-32=-2324/0, 7-34=0/1547, 5-34=-844/0, 10-32=-1036/0, 11-28=-677/138,

14-28=-1159/0, 17-25=-768/22, 14-27=0/490, 15-27=-323/0

### NOTES-

OTHERS

- 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) Gable studs spaced at 1-4-0 oc.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24.
- 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.



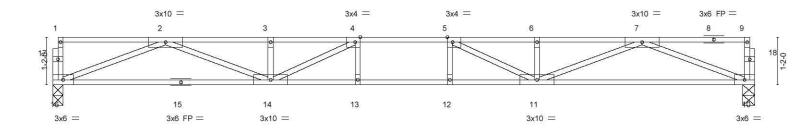


Job	Truss	Truss Type	Qty	Ply	Mohler/Lot 22 Quail Glen/Harnett
J0119-0149	F00	Si	a a		E12651723
J0119-0149	F03	Floor	4	-45	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Jan 30 12:59:05 2019 Page 1 ID:S5MG8EgBlVMxfeJ50K9uoEzw9E3-QwBkrx6MuW30V1tY5dQhwZp2KZHP?epoRm7DtBzq9a4





-						17-1-8 17-1-8						<del></del>
Plate Off	sets (X,Y)	[4:0-1-8,Edge], [5:0-1-8,	Edge]	τ		3 1700 A 1700 A						
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.49	Vert(LL)	-0.27	12-13	>759	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.37	12-13	>547	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.06	10	n/a	n/a		
BCDL	5.0	Code IRC2015/T	PI2014	Matrix	k-S	100000000000000000000000000000000000000					Weight: 83 lb	FT = 20%F, 11%E

LUMBER-

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

2x4 SP No.3(flat) WEBS

BRACING-

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

except end verticals.

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

REACTIONS. (lb/size) 16=922/0-3-0, 10=922/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-3244/0, 3-4=-3244/0, 4-5=-3711/0, 5-6=-3244/0, 6-7=-3244/0 BOT CHORD 14-16=0/2011, 13-14=0/3711, 12-13=0/3711, 11-12=0/3711, 10-11=0/2011

WEBS 2-16=-2157/0, 2-14=0/1331, 3-14=-273/22, 7-10=-2157/0, 7-11=0/1331, 6-11=-273/22, 5-11=-826/0, 4-14=-826/0

### NOTES-

- 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) 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.





Job Truss Truss Type Qty Ply Mohler/Lot 22 Quail Glen/Harnett E12651724 J0119-0149 F04 Floor 1 Job Reference (optional)

Comtech, Inc.,

Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Jan 30 12:59:06 2019 Page 1 ID:S5MG8EgBIVMxfeJ50K9uoEzw9E3-u6l62H6\_fqBt6BSkeLxwSnM6mzcvk2BxgQsmPdzq9a3

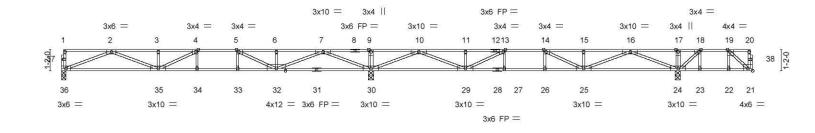
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

0-1-8





1		16-11-12						33-10-0		33-11-8	37-11-0	
		16-11-1	2		28			16-10-4		0-1-8 3-11-8		
Plate Offs	ets (X,Y)	[4:0-1-8,Edge], [5:0-1-8,E	Edge], [13:0-1-	-8,Edge], [14:	0-1-8,Edge]	, [18:0-1-8,Edge], [	19:0-1-8,Edg	e], [21:Edg	e,0-1-8]			
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	0.95	Vert(LL)	-0.23 34-3	>869	480	MT20	244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.32 34-3	>639	360			
BCLL	0.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.04 2	4 n/a	n/a			
BCDL	5.0	Code IRC2015/Ti	PI2014	Matrix	∢-S					Weight: 185 lb	FT = 20%F, 11%E	

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

12-20: 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP No.1(flat) \*Except\*

31-36: 2x4 SP 2400F 2.0E(flat)

WEBS 2x4 SP No.3(flat)

REACTIONS. (lb/size) 36=761/0-3-0, 30=2049/0-3-8, 24=1620/0-3-8

Max Grav 36=822(LC 5), 30=2089(LC 3), 24=1679(LC 4)

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

TOP CHORD 20-21=-544/0, 2-3=-2766/0, 3-4=-2766/0, 4-5=-2909/0, 5-6=-2109/269, 6-7=-2109/269,

7-9=0/2479, 9-10=0/2479, 10-11=-1660/809, 11-13=-1660/809, 13-14=-2183/766, 14-15=-1769/957, 15-16=-1769/957, 16-17=0/1962, 17-18=0/1968, 18-19=0/762 35-36=0/1762, 34-35=0/2909, 33-34=0/2909, 32-33=0/2909, 30-32=-863/665,

**BOT CHORD** 29-30=-1120/403, 27-29=-766/2183, 26-27=-766/2183, 25-26=-766/2183,

24-25=-1365/575, 23-24=-762/0, 22-23=-762/0, 21-22=-762/0

WEBS 9-30=-282/0, 2-36=-1890/0, 2-35=0/1083, 3-35=-307/0, 7-30=-2470/0, 7-32=0/1716,

5-32=-1267/0, 4-35=-252/385, 10-30=-2240/0, 10-29=0/1504, 11-29=-275/28, 16-24=-2159/0, 16-25=0/1380, 15-25=-295/17, 14-25=-713/71, 13-29=-944/0,

18-24=-1583/0, 18-23=0/373, 19-21=0/1057, 19-22=-358/0

### NOTES-

- 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) 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.

### LOAD CASE(S) Standard

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

Vert: 21-36=-10, 1-20=-100

Concentrated Loads (lb) Vert: 20=-300





🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 fundated this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see 

\*\*ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

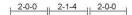


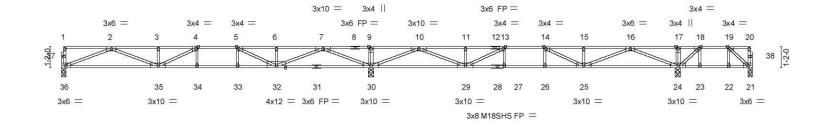
Job	Truss	Truss Type	Qty	Ply	Mohler/Lot 22 Quail Glen/Harnett
J0119-0149	F05	Floor	1	1	E12651725
894.1919.4.19.	N.M.S.				Joh Deference (ontional)

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Jan 30 12:59:08 2019 Page 1 ID:S5MG8EgBIVMxfeJ50K9uoEzw9E3-qVttTy8FBRRbMVb7mlzPXCRUmmGzCxfE8kLtUWzq9a1

0-1-8





<u> </u>	16-11-12 16-11-12				-			11	33-11-8 37-11-0 0-1-8 3-11-8			
Plate Off	sets (X,Y)	[4:0-1-8,Edge], [5:0-1-8,I	Edge], [13:0-1-	8,Edge], [14:0	)-1-8,Edge],	[18:0-1-8,Edge], [	19:0-1-8		2 4424			
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.79	Vert(LL)	-0.25	34-35	>796	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.35	34-35	>585	360	M18SHS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.05	24	n/a	n/a		
BCDL	5.0	Code IRC2015/T	PI2014	Matrix	-S	12.2742.403.403.403.40					Weight: 185 lb	FT = 20%F, 11%E

LUMBER-

BRACING-

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat) WEBS 2x4 SP No.3(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 1-4-12 oc bracing.

REACTIONS. All bearings 0-3-0 except (jt=length) 30=0-3-8, 24=0-3-8.

(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 21=-185(LC 6)

Max Grav All reactions 250 lb or less at joint(s) 21 except 36=815(LC 5), 30=2125(LC 16), 24=1348(LC 4)

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

TOP CHORD 2-3=-2738/0, 3-4=-2738/0, 4-5=-2855/0, 5-6=-2034/285, 6-7=-2034/285, 7-9=0/2531,

9-10=0/2531, 10-11=-1769/378, 11-13=-1769/378, 13-14=-2385/0, 14-15=-2059/0,

15-16=-2059/0, 16-17=0/913, 17-18=0/908, 18-19=-78/413

BOT CHORD 35-36=0/1745, 34-35=0/2855, 33-34=0/2855, 32-33=0/2855, 30-32=-879/578,

29-30=-941/452, 27-29=0/2385, 26-27=0/2385, 25-26=0/2385, 24-25=0/928,

23-24=-413/78, 22-23=-413/78, 21-22=-413/78

WEBS 9-30=-281/0, 2-36=-1871/0, 2-35=0/1072, 3-35=-319/0, 7-30=-2480/0, 7-32=0/1722,

5-32=-1275/0, 4-35=-238/396, 10-30=-2327/0, 10-29=0/1583, 16-24=-1963/0, 16-25=0/1224, 15-25=-302/0, 14-25=-366/203, 13-29=-1066/0, 18-24=-812/0,

19-21=-99/557

### NOTES-

- 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 185 lb uplift at joint 21.
- 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.



🛕 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see \*\*ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	Mohler/Lot 22 Quail Glen/Harnett
CLERKED STRUCK	2000	2124	9	52	E12651726
J0119-0149	F06	Floor	6	1	NOTICE AND A SECURITY OF A SEC
					Job Reference (optional)

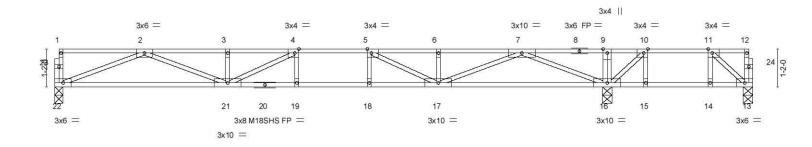
Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Jan 30 12:59:09 2019 Page 1  $ID: S5MG8EgBIVMx feJ50K9uoEzw9E3-JhRFgI9tyIZSzfAJKTUe4P\_iyAexxQrNMO5R0yzq9a0\\$ 

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

except end verticals.





16				16-1	1-12						21-5-8	
				16-1	1-12						4-5-12	Ų.
Plate Offs	ets (X,Y)-	[4:0-1-8,Edge], [5:0-1-8,E	Edge], [10:0-1-	8,Edge], [11:	0-1-8,Edge]						· · · · · · · · · · · · · · · · · · ·	
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	0.64	Vert(LL)	-0.25	19	>792	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.89	Vert(CT)	-0.35	19	>578	360	M18SHS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.05	16	n/a	n/a	TO TO THE STATE OF	
BCDL	5.0	Code IRC2015/TI	PI2014	Matrix	k-S	10.0 40.40.40.40.40					Weight: 106 lb	FT = 20%F, 11%E

BRACING-

TOP CHORD

LUMBER-

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

Rigid ceiling directly applied or 6-0-0 oc bracing. WEBS 2x4 SP No.3(flat) **BOT CHORD** 

REACTIONS. (lb/size) 22=867/0-3-0, 16=1411/0-3-8, 13=42/0-3-8

Max Uplift 13=-126(LC 3)

Max Grav 22=870(LC 10), 16=1411(LC 1), 13=180(LC 4)

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

TOP CHORD 2-3=-2999/0, 3-4=-2999/0, 4-5=-3297/0, 5-6=-2662/0, 6-7=-2662/0, 7-9=0/807, 9-10=0/802, 10-11=-112/338

**BOT CHORD** 21-22=0/1882, 19-21=0/3297, 18-19=0/3297, 17-18=0/3297, 16-17=0/1323, 15-16=-338/112, 14-15=-338/112, 13-14=-338/112

WEBS 2-22=-2018/0, 2-21=0/1206, 3-21=-283/1, 7-16=-2219/0, 7-17=0/1459, 6-17=-258/30,

5-17=-927/0, 4-21=-638/50, 10-16=-767/0, 11-13=-144/457

### NOTES-

- 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 126 lb uplift at joint 13.
- 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.



Marning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 fundated 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 

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Job	Truss	Truss Type	Qty	Ply	Mohler/Lot 22 Quail Glen/Harnett
J0119-0149	F07	FLOOR	4	1	E12651727

Comtech, Inc.,

Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Jan 30 12:59:10 2019 Page 1  $ID: S5MG8EgBIVMx feJ50K9uoEzw9E3-nt?due9Vj3hJbpIVtA?tddX\_za0zgtHXb2q\_YOzq9a?tdsparentered and the property of the property o$ 

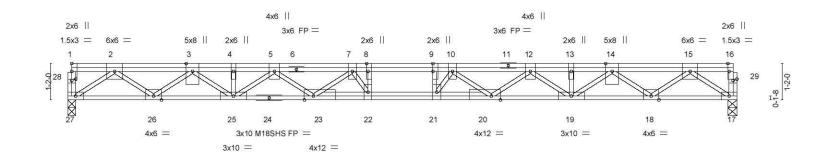
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

0-1-8 H 1-3-0

0-6-0 1-11-8 0-6-0 0-1-8 Scale = 1:37.0



1						21-5-8						
						21-5-8						
Plate Off	fsets (X,Y)-	[8:0-3-0,Edge], [9:0-3-0,0	0-0-0], [16:0-3-	-0,Edge], [20:	0-3-8,Edge]	, [23:0-3-8,Edge], [	28:0-1-8,0	0-0-8]	[29:0-1-	8,0-0-8]		
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.17	Vert(LL)	-0.37 2	1-22	>695	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	-0.50 2	1-22	>505	360	M18SHS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.09	17	n/a	n/a		
BCDL	5.0	Code IRC2015/TI	PI2014	Matrix	c-S	10.00					Weight: 145 lb	FT = 20%F, 11%E

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP 2400F 2.0E(flat)

WEBS 2x4 SP No.3(flat)

REACTIONS. (lb/size) 27=1160/0-3-0, 17=1160/0-3-8

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

TOP CHORD 2-3=-2678/0, 3-4=-4608/0, 4-5=-4608/0, 5-7=-6142/0, 7-8=-6609/0, 8-9=-6609/0,

9-10=-6609/0, 10-12=-6218/0, 12-13=-4650/0, 13-14=-4650/0, 14-15=-2668/0

**BOT CHORD** 26-27=0/1551, 25-26=0/3741, 23-25=0/5415, 22-23=0/6540, 21-22=0/6609, 20-21=0/6555,

19-20=0/5476, 18-19=0/3757, 17-18=0/1546

**WEBS** 2-27=-1900/0, 2-26=0/1433, 3-26=-1349/0, 3-25=0/1082, 15-17=-1894/0, 15-18=0/1426,

14-18=-1382/0, 14-19=0/1114, 12-19=-1029/0, 12-20=0/877, 5-25=-1006/0, 5-23=0/859,

7-23=-606/0, 10-20=-559/0, 10-21=-365/635, 9-21=-424/186, 7-22=-340/651,

8-22=-399/212

### NOTES-

- 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) Required 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.





Job	Truss	Truss Type	Qty Ply	ly	Mohler/Lot 22 Quail Glen/Harnett	
J0119-0149	F08	FLOOR	7	4		E12651728
30119-0149	FU0	FLOOR	*	- 1	Joh Reference (optional)	

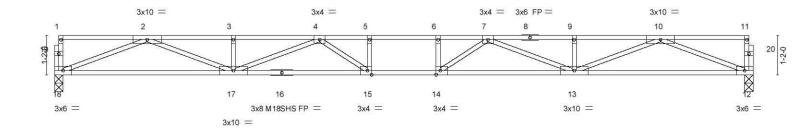
Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Jan 30 12:59:10 2019 Page 1  $ID: S5MG8EgBIVMxfeJ50K9uoEzw9E3-nt?due9Vj3hJbpIVtA?tddXxza4ygsnXb2q\_YOzq9a?tdue9Vj3hJbpIVtA?tdue9Vj3hJ$ 





0-1-8 Scale = 1:34.2



<del> </del>						20-9-0 20-9-0						
Plate Off	sets (X,Y)	[14:0-1-8,Edge], [15:0-1-	8,Edge]			20-0-0						17-
LOADIN	G (psf)	SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	-0.36 1	4-15	>683	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.46	Vert(CT)	-0.49 1	4-15	>497	360	M18SHS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.07	12	n/a	n/a		
BCDL	5.0	Code IRC2015/TI	PI2014	Matri	x-S	10.00 40.00 40.000.00					Weight: 101 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP 2400F 2.0E(flat)

WEBS 2x4 SP No.3(flat) BRACING-

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

except end verticals.

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

REACTIONS. (lb/size) 18=896/0-3-0, 12=896/0-3-0

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

 $2 - 3 = -3395/0, \ 3 - 4 = -3395/0, \ 4 - 5 = -4392/0, \ 5 - 6 = -4392/0, \ 6 - 7 = -4392/0, \ 7 - 9 = -3395/0, \ 9 - 10 = -$ TOP CHORD

17-18=0/2005, 15-17=0/4174, 14-15=0/4392, 13-14=0/4174, 12-13=0/2005 **BOT CHORD** 

WEBS 2-18=-2151/0, 2-17=0/1501, 10-12=-2151/0, 10-13=0/1501, 7-13=-840/0, 4-17=-840/0, 4-15=-113/596, 5-15=-264/26,

7-14=-113/596, 6-14=-264/26

- 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) 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.





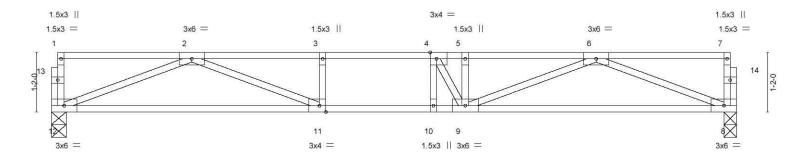
Job	Truss	Truss Type	Qty	Ply	Mohler/Lot 22 Quail Glen/Harnett	
J0119-0149	F09	Floor	1	1		E12651729
001100110	7 00	1 1001			Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Jan 30 12:59:11 2019 Page 1 ID:S5MG8EgBIVMxfeJ50K9uoEzw9E3-F4Y?5\_A7UMpADyKiRuW69q36U\_NjPOJgqiaX5rzq9a\_

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





(C)			6-8-8 6-8-8			8-0-8 1-4-0	-				13-5-0 5-4-8	
Plate Offs	sets (X,Y)		***	T		1-4-0					3-4-0	~
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.13	10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.20	11-12	>788	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.03	8	n/a	n/a		
BCDL	5.0	Code IRC2015/TI	PI2014	Matrix	-S	100 000 000 000 000 000					Weight: 66 lb	FT = 20%F, 11%E

TOP CHORD

LUMBER- BRACING-

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

BOT CHORD 2x4 SP No.1(flat) except end verticals.

WEBS 2x4 SP No.3(flat) BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 12=718/0-3-8, 8=718/0-3-0

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

TOP CHORD 2-3=-2248/0, 3-4=-2248/0, 4-5=-2231/0, 5-6=-2231/0 BOT CHORD 11-12=0/1499, 10-11=0/2248, 9-10=0/2248, 8-9=0/1504

WEBS 2-12=-1607/0, 6-8=-1611/0, 6-9=0/785, 2-11=0/869, 5-9=-275/132, 4-9=-453/302

### NOTES-

- 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.



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Job Truss Truss Type Qty Mohler/Lot 22 Quail Glen/Harnett E12651730 J0119-0149 F10 Floor Job Reference (optional)

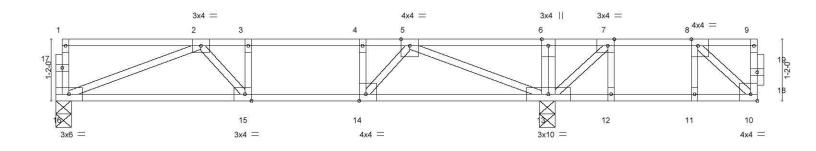
Comtech, Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Jan 30 12:59:12 2019 Page 1 ID:S5MG8EgBIVMxfeJ50K9uoEzw9E3-jG6NJKBIFgy1q6vu?b2Li2c8aOfk8qkq2MJ5cHzq9Zz

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

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

except end verticals.





1				9-4-0					9-5	n- δ	13-5-0	
				9-4-0					0-4	-8	3-11-8	3
Plate Off	fsets (X,Y)	[7:0-1-8,Edge], [8:0-1-8,E	Edge], [10:Edg	e,0-1-8], [14:	0-1-8,Edge],	[15:0-1-8,Edge]						
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.11	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.15	15-16	>736	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.49	Horz(CT)	-0.01	13	n/a	n/a		
BCDL	5.0	Code IRC2015/TI	PI2014	Matrix	-S	10.000000000000000000000000000000000000					Weight: 68 lb	FT = 20%F, 11%E

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-TOP CHORD

2x4 SP 2400F 2.0E(flat) 2x4 SP No.1(flat)

BOT CHORD WEBS 2x4 SP No.3(flat)

REACTIONS. (lb/size) 16=276/0-3-8, 13=1460/0-3-8

Max Uplift 16=-86(LC 4)

Max Grav 16=343(LC 3), 13=1460(LC 1)

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

TOP CHORD 9-10=-539/0, 2-3=-397/675, 3-4=-397/675, 4-5=-397/675, 5-6=0/1987, 6-7=0/1992,

7-8=0/761

**BOT CHORD** 15-16=-326/547, 14-15=-675/397, 13-14=-1125/0, 12-13=-761/0, 11-12=-761/0,

10-11=-761/0

WEBS 2-16=-582/352, 5-13=-1622/0, 5-14=0/997, 4-14=-615/0, 2-15=-556/0, 3-15=0/359,

7-13=-1617/0, 7-12=0/421, 8-10=0/1037, 8-11=-377/0

### NOTES-

- 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 86 lb uplift at joint 16.
- 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: 10-16=-10, 1-9=-100

Concentrated Loads (lb) Vert: 9=-300



January 30,2019

MEANING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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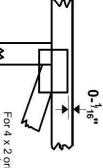


### Symbols

# PLATE LOCATION AND ORIENTATION



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



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

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

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

### PLATE SIZE



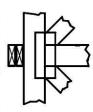
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

# LATERAL BRACING LOCATION



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

### BEARING



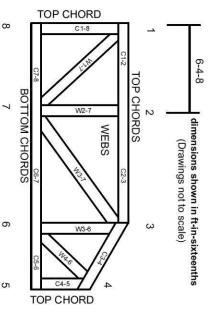
number where bearings occur. Min size shown is for crushing only reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

### Industry Standards:

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

DSB-89: ANSI/TPI1:

# 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

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

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MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

# 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
- Ņ may require bracing, or alternative Tor I bracing should be considered. wide truss spacing, individual lateral braces themselves Truss bracing must be designed by an engineer. For
- stack materials on inadequately braced trusses. Never exceed the design loading shown and never
- 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.

5

- 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.
- shall not exceed 19% at time of fabrication. Unless otherwise noted, moisture content of lumber
- 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. responsibility of truss fabricator. General practice is to
- 11. 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
- 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 project engineer before use. environmental, health or performance risks. Consult with
- 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.



### Trenco

818 Soundside Rd Edenton, NC 27932

Re: J0119-0148

Mohler/Lot 22 Quail Glen/Harnett

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

Pages or sheets covered by this seal: E12651705 thru E12651718

My license renewal date for the state of North Carolina is December 31, 2019.

North Carolina COA: C-0844



January 30,2019

Gilbert, Eric

**IMPORTANT NOTE:** Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

Job Truss Truss Type Qty Ply Mohler/Lot 22 Quail Glen/Harnett E12651705 J0119-0148 A1-GE **GABLE** Job Reference (optional) Comtech, Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Jan 30 12:58:28 2019 Page 1 ID:S5MG8EgBIVMxfeJ50K9uoEzw9E3-?oSI4Hf9c9PGYMYRQMF0wmnqZfsxr03LxWfm3qzq9af -0-10-8 0-10-8 17-0-0 28-0-0 17-0-0 5x5 = Scale = 1:63.3 7.00 12 11 12 10 4x6 13 8 14 15 3x4 | X 16 17 0,4,6 3x4 = 32 31 30 29 28 27 26 25 23 22 21 20 19 18 4x6 = 3x4 28-0-0 Plate Offsets (X,Y)--[8:0-2-11,Edge] LOADING (psf) SPACING-DEFL. PLATES GRIP 2-0-0 CSI. in (loc) I/defl L/d Plate Grip DOL TC 0.04 244/190 TCLL 200 1.15 Vert(LL) -0.00 n/r 120 MT20 BC TCDL 10.0 Lumber DOL 1.15 0.02 Vert(CT) 0.00 n/r 120 BCLL 0.0 Rep Stress Incr YES WB 0.16 Horz(CT) 0.00 18 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 263 lb FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x6 SP No.1 2x4 SP No.3 OTHERS

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **WEBS** 1 Row at midpt 11-24, 10-25, 12-23

REACTIONS. All bearings 28-0-0.

(lb) - Max Horz 2=241(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 2, 18, 25, 27, 28, 29, 30, 31, 32, 23, 22, 21, 20, 19 Max Grav All reactions 250 lb or less at joint(s) 2, 18, 24, 25, 27, 28, 29, 30, 31, 23, 22, 21, 20, 19 except 32=252(LC 19)

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

TOP CHORD 2-3=-256/233, 10-11=-233/273, 11-12=-233/273

### 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) -0-8-13 to 3-8-0, Exterior(2) 3-8-0 to 17-0-0, Corner(3) 17-0-0 to 21-4-13 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 18, 25, 27, 28, 29, 30, 31, 32, 23, 22, 21, 20, 19.

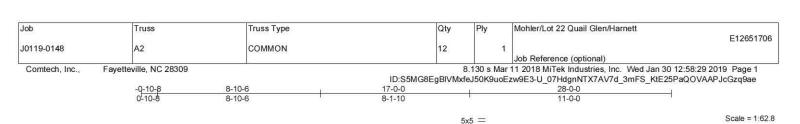


MEANING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

\*\*ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





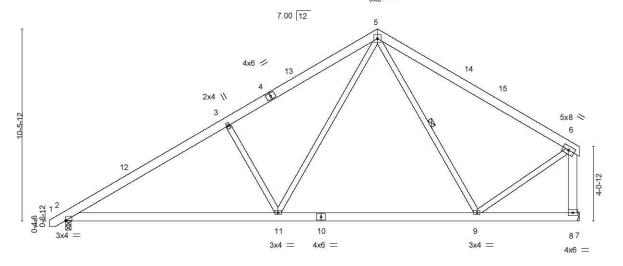


Plate Off	sets (X,Y) [	2:0-0-2,0-0-2]		T		1					7	
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.18	9-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.25	9-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matri	x-S	Wind(LL)	0.04	2-11	>999	240	Weight: 202 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

WEBS

10-10-2

except end verticals.

1 Row at midpt

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 WEBS 2x4 SP No.3 \*Except\*

5-11,5-9: 2x4 SP No.2, 6-8: 2x6 SP No.1

REACTIONS. (lb/size) 2=1154/0-3-8, 8=1106/Mechanical

Max Horz 2=241(LC 9)

Max Uplift 2=-79(LC 12), 8=-39(LC 13) Max Grav 2=1221(LC 19), 8=1197(LC 20)

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

TOP CHORD 2-3=-1799/328, 3-5=-1595/388, 5-6=-1022/232, 6-8=-1206/242

BOT CHORD 2-11=-305/1590, 9-11=-97/868

WEBS 3-11=-543/298, 5-11=-138/1002, 6-9=0/908

### 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) -0-8-13 to 3-8-0, Interior(1) 3-8-0 to 17-0-0, Exterior(2) 17-0-0 to 21-4-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.

11-6-15

11-6-15



28-0-0

5-6-15

Structural wood sheathing directly applied or 5-6-5 oc purlins,

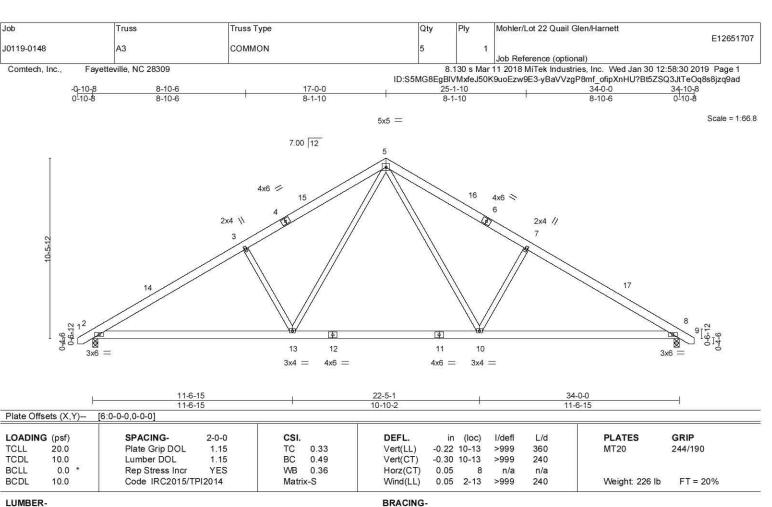
Rigid ceiling directly applied or 10-0-0 oc bracing.



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 fundated 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 

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TOP CHORD

**BOT CHORD** 

LUMBER-

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

WEBS 2x4 SP No.2 \*Except\* 7-10 3-13: 2x4 SP No 3

REACTIONS. (lb/size) 2=1401/0-3-8, 8=1401/0-3-8

Max Horz 2=-248(LC 10)

Max Uplift 2=-89(LC 12), 8=-89(LC 13) Max Grav 2=1474(LC 19), 8=1474(LC 20)

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

TOP CHORD 2-3=-2291/434, 3-5=-2087/495, 5-7=-2087/495, 7-8=-2291/434

BOT CHORD 2-13=-234/2043, 10-13=-18/1320, 8-10=-242/1857

WEBS 5-10=-156/1001, 7-10=-561/311, 5-13=-156/1000, 3-13=-561/311

### 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) -0-8-13 to 3-8-0, Interior(1) 3-8-0 to 17-0-0, Exterior(2) 17-0-0 to 21-4-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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.



Structural wood sheathing directly applied or 4-10-15 oc purlins.

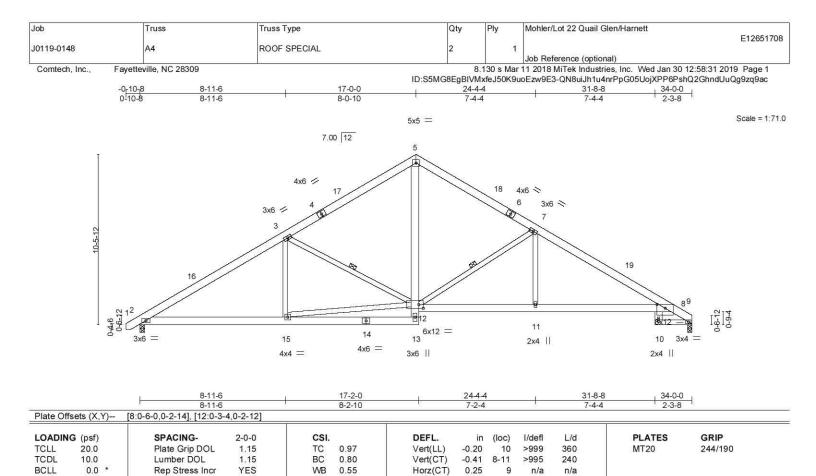
Rigid ceiling directly applied or 10-0-0 oc bracing.

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 fundated 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 

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Wind(LL)

BRACING-

0.16

LUMBER-

BCDL

TOP CHORD 2x6 SP No.1

10.0

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

9-10: 2x4 SP No.1

2x4 SP No.3 \*Except\* **WEBS** 

8-10: 2x6 SP No.1

TOP CHORD

Matrix-S

**BOT CHORD** 

>999

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

240

Weight: 249 lb

FT = 20%

6-0-0 oc bracing: 9-10.

10

WEBS 1 Row at midpt 3-12, 7-12

REACTIONS. (lb/size) 9=1364/0-3-8, 2=1402/0-3-8

Max Horz 2=246(LC 11)

Max Uplift 9=-67(LC 13), 2=-88(LC 12)

Code IRC2015/TPI2014

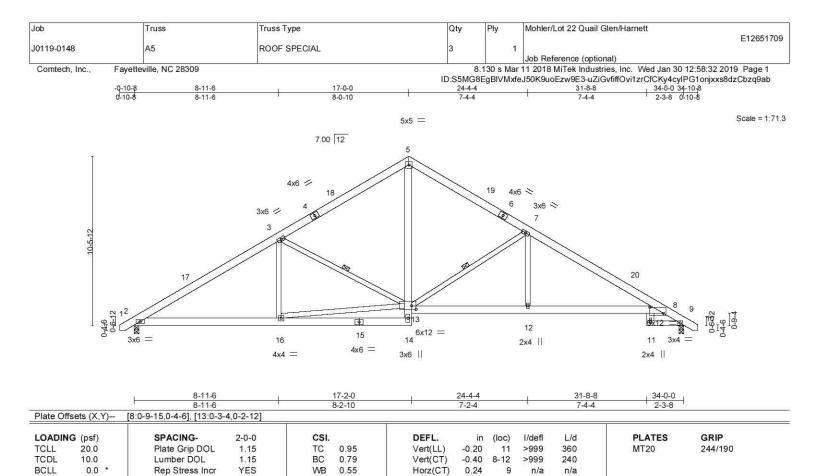
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-2174/411, 3-5=-1563/403, 5-7=-1571/413, 7-8=-2398/456, 8-9=-820/182 BOT CHORD 2-15=-227/1773, 13-15=-50/440, 5-12=-206/1163, 11-12=-248/2054, 8-11=-248/2054 WEBS 3-15=0/281, 12-15=-182/1350, 3-12=-730/242, 7-12=-1057/281, 7-11=0/461

### 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) -0-8-13 to 3-8-0, Interior(1) 3-8-0 to 17-0-0, Exterior(2) 17-0-0 to 21-4-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 9, 2.







LUMBER-

BCDL

TOP CHORD 2x6 SP No.1

10.0

BOT CHORD 2x6 SP No.1 \*Except\* 9-11: 2x4 SP No.1

2x4 SP No.3 \*Except\*

**WEBS** 

8-11: 2x6 SP No.1

Wind(LL) BRACING- 0.15

TOP CHORD Structural wood sheathing directly applied.

>999

11

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

240

Weight: 251 lb

FT = 20%

6-0-0 oc bracing: 9-11.

WEBS 1 Row at midpt 3-13, 7-13

REACTIONS. (lb/size) 9=1417/0-3-8, 2=1402/0-3-8

Max Horz 2=249(LC 11)

Max Uplift 9=-79(LC 13), 2=-88(LC 12)

Code IRC2015/TPI2014

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2172/411, 3-5=-1561/402, 5-7=-1570/408, 7-8=-2393/442, 8-9=-825/194 BOT CHORD 2-16=-211/1775, 14-16=-47/439, 5-13=-201/1162, 12-13=-236/2049, 8-12=-236/2049 WEBS 3-16=0/281, 13-16=-169/1353, 3-13=-731/243, 7-13=-1059/278, 7-12=0/460

### 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) -0-8-13 to 3-8-0, Interior(1) 3-8-0 to 17-0-0, Exterior(2) 17-0-0 to 21-4-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-S

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 9, 2.



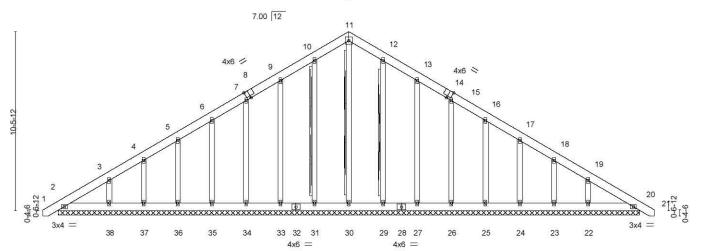
Job Truss Truss Type Qty Ply Mohler/Lot 22 Quail Glen/Harnett E12651710 J0119-0148 A6-GE **GABLE** Job Reference (optional) 8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Jan 30 12:58:33 2019 Page 1

5x5 =

Comtech, Inc., Fayetteville, NC 28309

ID: S5MG8EgBIVMx feJ50K9uo Ezw9E3-MmFe7? jlQh1Zf7QODvrBdqVhHgZ?WG144oNXI2zq9aa17-0-0 34-0-0 34-10-8 0-10-8 17-0-0

Scale = 1:67.4



34-0-0 [8:0-2-11.Edge], [14:0-2-10.Edge]

Plate Of	fsets (X,Y) [	8:0-2-11,Edge], [14:0-2-	10,Edge]	7		7						
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	0.00	20	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	20	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	20	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matri	x-S	1220 30360 60500					Weight: 293 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 **OTHERS** 2x4 SP No.3 **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 - 11-30, 10-31, 12-29

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 34-0-0

(lb) - Max Horz 2=-310(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 31, 33, 34, 35, 36, 37, 29, 27, 26, 25, 24, 23 except 38=-118(LC 12), 22=-116(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 20, 31, 33, 34, 35, 36, 37, 29, 27, 26, 25, 24, 23 except 30=257(LC 22), 38=259(LC 19), 22=257(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-284/232, 9-10=-215/254, 10-11=-245/278, 11-12=-245/278

### 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) 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 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 31, 33, 34, 35, 36, 37, 29, 27, 26, 25, 24, 23 except (jt=lb) 38=118, 22=116.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



MEANING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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

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Job Truss Truss Type Qty Ply Mohler/Lot 22 Quail Glen/Harnett E12651711 J0119-0148 B1-GE **GABLE** Job Reference (optional) Comtech, Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Jan 30 12:58:34 2019 Page 1 14-4-0 0-10-8 13-5-8 6-8-12 6-8-12 0-10-8 5x5 = Scale = 1:34.4 5 9.00 12 3 14 13 12 11 10 3x4 3x4 6-8-12 13-5-8 6-8-12

LOADIN	G (nef)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.02	14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.03	13-14	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-S	Wind(LL)	0.02	14	>999	240	Weight: 99 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x6 SP No.1 2x6 SP No.1 BOT CHORD 2x4 SP No.3 WEBS **OTHERS** 2x4 SP No.3

(lb/size) 2=580/0-3-8, 8=580/0-3-8

Max Horz 2=-134(LC 10)

Max Uplift 2=-37(LC 12), 8=-37(LC 13)

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

TOP CHORD 2-3=-589/108, 3-4=-514/181, 4-5=-538/245, 5-6=-538/245, 6-7=-515/181, 7-8=-589/108

BOT CHORD 2-14=0/396, 13-14=0/396, 12-13=0/396, 11-12=0/396, 10-11=0/396, 8-10=0/396

WEBS 5-12=-150/377

### 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) -0-9-0 to 3-7-13, Exterior(2) 3-7-13 to 6-8-12, Corner(3) 6-8-12 to 11-1-9 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 studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.



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

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



Job Truss Truss Type Qty Ply Mohler/Lot 22 Quail Glen/Harnett E12651712 J0119-0148 B2 COMMON Job Reference (optional) Comtech, Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Jan 30 12:58:35 2019 Page 1  $ID: S5MG8EgBIVMx feJ50K9uoEzw9E3-I8NOYgkYyJHHuQanKKtfiFa\_TTDP\_BONY6sdpwzq9aYBINDSBURGERS AND SERVICE STATEMENT FOR SERVICE STATEME$ 14-4-0 0-10-8 0-10-8 13-5-8 6-8-12 6-8-12 5x5 = Scale = 1:35.4 3 9.00 12 10 0;4-10 0-8-12, 5 6 3x4 3x4 2x4 || 6-8-12 13-5-8 LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI. L/d in (loc) I/defl TCLL 20.0 Plate Grip DOL TC 2-6 >999 360 244/190 1.15 0.19 Vert(LL) -0.01 MT20 BC TCDL 100 Lumber DOL 1.15 0.16 Vert(CT) -0.032-6 >999 240 0.0 WB BCLL Rep Stress Incr YES 0.12 Horz(CT) 0.00 4 n/a n/a

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.01

2-6

>999

240

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

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

Weight: 84 lb

FT = 20%

LUMBER-

BCDL

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.3 WEBS

10.0

REACTIONS. (lb/size) 2=580/0-3-8, 4=580/0-3-8

Max Horz 2=-134(LC 10)

Max Uplift 2=-37(LC 12), 4=-37(LC 13)

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

Code IRC2015/TPI2014

TOP CHORD 2-3=-604/159, 3-4=-604/159 **BOT CHORD** 2-6=0/390, 4-6=0/390

WEBS 3-6=0/320

- 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) -0-9-0 to 3-7-13, Interior(1) 3-7-13 to 6-8-12, Exterior(2) 6-8-12 to 11-1-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-S

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 2, 4.







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

\*\*ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Ply Mohler/Lot 22 Quail Glen/Harnett E12651713 J0119-0148 B3-GE **GABLE** Job Reference (optional) Comtech, Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Jan 30 12:58:36 2019 Page 1 ID:S5MG8EgBIVMxfeJ50K9uoEzw9E3-mLxml0IAjcP7Wa9zu1OuES7APtYojcMWnmbBLNzq9aX 18-8-12 18-11-6 0-2-10 25-5-8 12-8-12 1-0-0 6-6-2 6-0-0 5x5 = Scale = 1:61.5 9.00 12 9 4x6 / 10 4x6 11 12 6 28 4x8 > 27 13 5 25 24 X 3x10 3 23 3x10 || 14 0-8-12 1 3v10 1 X 16 3x4 3x4 15 4x6 = 22 21 20 19 18 17 16-10-8 12-0-0 18-8-12 8-7-0 1-10-4 4-10-8 LOADING (psf) DEFL. **PLATES** GRIP SPACING-2-0-0 CSI. L/d in (loc) I/defl TCLL 20.0 Plate Grip DOL TC Vert(LL) -0.01 14-15 >999 360 244/190 1 15 0.18 MT20 BC TCDL 100 Lumber DOL 1.15 0.15 Vert(CT) -0.03 14-15 >999 240 WB BCLL 0.0 Rep Stress Incr YES 0.20 Horz(CT) 0.01 14 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.01 14-15 >999 240 Weight: 232 lb FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.3 \*Except\* WEBS

13-17: 2x8 SP No.1

**OTHERS** 2x4 SP No.3 BRACING-

JOINTS

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 - 9-23

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.

1 Brace at Jt(s): 24, 25

REACTIONS. All bearings 12-3-8 except (jt=length) 14=0-3-8.

(lb) -Max Horz 2=241(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 19, 20, 21, 22 except 18=-104(LC 12)

All reactions 250 lb or less at joint(s) 2, 18, 19, 20, 21, 22 except 14=591(LC 1), 17=617(LC 3),

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

TOP CHORD 2-3=-253/202, 13-14=-687/99 **BOT CHORD** 15-17=0/473, 14-15=0/475

13-15=0/303, 17-23=-603/203, 23-24=-640/256, 24-25=-572/211, 13-25=-599/232 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) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 12-8-12, Exterior(2) 12-8-12 to 17-1-9 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 studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 19, 20, 21,
- 9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required



MEANING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

\*\*ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty Ply Mohler/Lot 22 Quail Glen/Harnett E12651714 J0119-0148 **B4** Common Job Reference (optional) Comtech, Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Jan 30 12:58:37 2019 Page 1 ID:S5MG8EgBIVMxfeJ50K9uoEzw9E3-FXV9zMmoUwX\_8kk9Slv7ngfLFHs1S1jg?QLkupzq9aW 12-8-12 18-11-6 25-5-8 5x5 = Scale = 1:61.5 9.00 12 4x6 // 4x6 13 2x4 \\ 2x4 // × 10 9 8 3x4 3x4 3x4 = 4x6 = 3x4 = 16-10-8 8-7-0 8-3-8 8-7-0 LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI. L/d in (loc) I/defl TCLL 20.0 Plate Grip DOL TC -0.08 8-10 >999 360 244/190 1.15 0.17 Vert(LL) MT20 BC TCDL 100 Lumber DOL 1.15 0.28 Vert(CT) -0.11 8-10 >999 240 WB BCLL 0.0 Rep Stress Incr YES 0.32 Horz(CT) 0.02 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.02 1-10 >999 240 Weight: 181 lb FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

6-8,2-10: 2x4 SP No.3

REACTIONS. (lb/size) 1=1007/0-3-8, 7=1007/0-3-8

Max Horz 1=234(LC 11)

Max Uplift 1=-48(LC 12), 7=-48(LC 13) Max Grav 1=1052(LC 19), 7=1052(LC 20)

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

TOP CHORD 1-2=-1407/302, 2-4=-1320/417, 4-6=-1320/417, 6-7=-1408/302

**BOT CHORD** 1-10=-120/1203, 8-10=0/786, 7-8=-121/1061

**WEBS** 4-8=-168/706, 6-8=-424/280, 4-10=-168/706, 2-10=-424/280

### 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) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 12-8-12, Exterior(2) 12-8-12 to 17-1-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 1, 7.



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. 10/03/2015 BEFORE USE.

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Job Truss Truss Type Qty Mohler/Lot 22 Quail Glen/Harnett E12651715 J0119-0148 **B5** Common Girder 2 Job Reference (optional) Comtech, Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Jan 30 12:58:38 2019 Page 1 ID:S5MG8EgBIVMxfeJ50K9uoEzw9E3-jj3XAinQFEfrluJM?SRMKtCUFh5lBK0pE44IQFzq9aV 18-10-11 6-6-13 25-5-8 12-8-12 6-6-13 Scale: 3/16"=1" 5x8 || 9.00 12 4x6 // 4x6 4x8 / 4x8 2 X 13 9 19 20 21 22 14 11 15 16 17 10 8 4x8 6x8 = 4x12 = 4x12 | 3x10 [] 10x10 = 12-8-12 18-10-11 25-5-8 6-6-13 6-1-15 6-1-15 Plate Offsets (X,Y)--[1:0-4-7,0-2-0], [7:1-0-0,0-0-13], [10:0-5-0,0-6-4]

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

**BOT CHORD** 

in (loc)

-0.12

-0.23

0.06

0.08

7-8

7-8

7-8

I/defl

>999

>999

>999

n/a

L/d

360

240

n/a

240

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

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

200

10.0

0.0

10.0

TOP CHORD 2x6 SP 2400F 2.0E BOT CHORD 2x6 SP 2400F 2.0E \*Except\*

1-9: 2x8 SP 2400F 2.0E 2x4 SP No.3 \*Except\*

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

WEBS 2x4 SP No.3 \*Except 4-10: 2x4 SP No.2

REACTIONS. (lb/size) 1=7353/0-3-8, 7=7695/0-3-9

Max Horz 1=-234(LC 23)

Max Uplift 1=-344(LC 8), 7=-360(LC 9) Max Grav 1=7590(LC 2), 7=7951(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-10235/477, 2-4=-6883/421, 4-6=-6908/422, 6-7=-10197/476 BOT CHORD 1-11=-396/7991, 10-11=-396/7991, 8-10=-304/8025, 7-8=-302/7940

WEBS 4-10=-388/7830, 6-10=-3218/301, 6-8=-95/3919, 2-10=-3280/300, 2-11=-96/3966

2-0-0

1.15

1.15

NO

CSI

0.29

0.76

0.96

TC

BC

WB

Matrix-S

### NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-7-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

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

- 4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 1=344, 7=360.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1148 lb down and 59 lb up at 2-0-12, 1148 lb down and 59 lb up at 4-0-12, 1148 lb down and 59 lb up at 6-0-12, 1148 lb down and 59 lb up at 10-0-12, 1148 lb down and 59 lb up at 10-0-12, 1148 lb down and 59 lb up at 10-0-12, 1148 lb down and 59 lb up at 16-0-12, 1148 lb down and 59 lb up at 16-0-12, 1148 lb down and 59 lb up at 18-0-12, 1148 lb down and 59 lb up at 22-0-12, and 1148 lb down and 59 lb up at 22-0-12 and 1148 lb down and 59 lb up at 22-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



PLATES

Weight: 391 lb

MT20

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

GRIP

244/190

FT = 20%

Continued on page 2

🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	Mohler/Lot 22 Quail Glen/Harnett	
J0119-0148	B5	Common Girder	1	2	E12651715	

Fayetteville, NC 28309 Comtech, Inc.,

Job Reference (optional)

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Jan 30 12:58:38 2019 Page 2 ID:SSMG8EgBIVMxfeJ50K9uoEzw9E3-jj3XAinQFEfrluJM?SRMKtCUFh5lBK0pE44IQFzq9aV

LOAD CASE(S) Standard

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

Vert: 1-4=-60, 4-7=-60, 1-7=-20

Concentrated Loads (lb)

Vert: 9=-1086(B) 12=-1086(B) 13=-1086(B) 14=-1086(B) 15=-1086(B) 16=-1086(B) 17=-1086(B) 18=-1086(B) 19=-1086(B) 20=-1086(B) 21=-1086(B) 22=-1086(B)



Job Truss Truss Type Qty Ply Mohler/Lot 22 Quail Glen/Harnett E12651716 J0119-0148 C1-GE ATTIC Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Jan 30 12:58:39 2019 Page 1 ID:S5MG8EgBIVMxfeJ50K9uoEzw9E3-BwdvN2n20XniN2uYZAybs5kZw4S\_ww6zTkqryhzq9aU

8-6-0 10-4-8 12-3-0 13-6-8 16-3-12 1-3-8 1-10-8 1-10-8 1-3-8 2-9-4 20-9-0 21-8-0

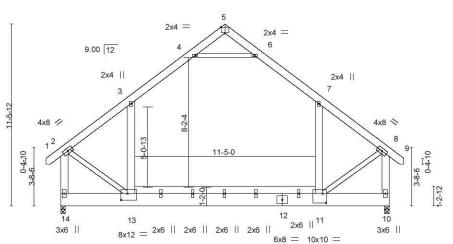
4x6 =

Scale = 1:72.8

Structural wood sheathing directly applied or 5-7-10 oc purlins,

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

except end verticals.



a	4-5-4	10-4-8	16-3-12	20-9-0	10
	4-5-4	5-11-4	5-11-4	4-5-4	

**BRACING-**

TOP CHORD

**BOT CHORD** 

Plate Of	fsets (X,Y)	[5:0-3-0,Edge], [11:0-2-1	2,0-7-0], [13:0	-4-12,0-4-12	]	3176	1-1-1-10	in ite.			
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.21 11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.33 11-13	>742	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.01 10	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matri	x-S	Wind(LL)	0.05 11-13	>999	240	Weight: 235 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1

**BOT CHORD** 2x10 SP No.1 \*Except\*

11-13: 2x6 SP No.1

WEBS 2x6 SP No.1 \*Except\*

4-6: 2x4 SP No.1, 2-13,8-11: 2x4 SP No.3

REACTIONS. (lb/size) 14=1174/0-3-8, 10=1174/0-3-8

Max Horz 14=-201(LC 10)

Max Grav 14=1441(LC 20), 10=1441(LC 21)

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

TOP CHORD 2-3=-1266/6, 3-4=-943/172, 4-5=0/421, 5-6=0/421, 6-7=-943/172, 7-8=-1266/6,

2-14=-1595/13, 8-10=-1595/13 13-14=-184/252, 11-13=0/898

WEBS 7-11=-141/423, 3-13=-141/423, 4-6=-1259/211, 2-13=0/1043, 8-11=0/1043

### NOTES-

**BOT CHORD** 

- 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) -0-9-0 to 3-7-13, Exterior(2) 3-7-13 to 10-5-0, Corner(3) 10-5-0 to 14-9-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Ceiling dead load (10.0 psf) on member(s), 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s), 7-11, 3-13
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
- 7) Attic room checked for L/360 deflection.





Job Truss Truss Type Qty Ply Mohler/Lot 22 Quail Glen/Harnett E12651717 J0119-0148 C2 ATTIC Job Reference (optional)

4x6 =

Comtech, Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Jan 30 12:58:40 2019 Page 1 ID:S5MG8EgBIVMxfeJ50K9uoEzw9E3-f6BHbOohnrvZ?CSk7tTqPIHkoUoDfNM6iOZOU8zq9aT

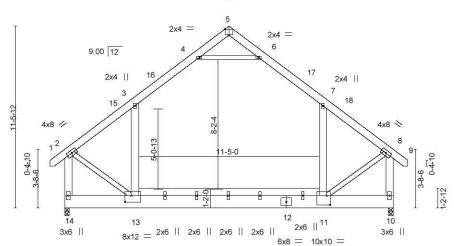
8-6-0 10-4-8 12-3-0 13-6-8 16-3-12 1-3-8 1-10-8 1-10-8 1-3-8 2-9-4 20-9-0

Scale = 1:72.8

Structural wood sheathing directly applied or 5-9-0 oc purlins,

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

except end verticals.



a	4-5-4	10-4-8	16-3-12	20-9-0	n
	4-5-4	5-11-4	5-11-4	4-5-4	$\exists$

**BRACING-**

TOP CHORD

**BOT CHORD** 

Plate Of	sets (X,Y) [	5:0-3-0,Edge], [11:0-2-1	2,0-7-0], [13:0	-4-12,0-4-12		7	/	10-12-		1	
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.21 11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.33 11-13	>742	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.01 10	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matri	x-S	Wind(LL)	0.05 11-13	>999	240	Weight: 235 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1

**BOT CHORD** 2x10 SP No.1 \*Except\*

11-13: 2x6 SP No.1 2x6 SP No.1 \*Except\*

WEBS 4-6: 2x4 SP No.1, 2-13,8-11: 2x4 SP No.3

REACTIONS. (lb/size) 14=1174/0-3-8, 10=1174/0-3-8

Max Horz 14=201(LC 11)

Max Grav 14=1441(LC 20), 10=1441(LC 21)

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

TOP CHORD 2-3=-1266/0, 3-4=-943/138, 4-5=0/421, 5-6=0/421, 6-7=-943/138, 7-8=-1266/0,

2-14=-1595/0, 8-10=-1595/0 13-14=-184/252, 11-13=0/898

**BOT CHORD** WEBS 7-11=-141/423, 3-13=-141/423, 4-6=-1259/142, 2-13=0/1043, 8-11=0/1043

### 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) -0-9-0 to 3-7-13, Interior(1) 3-7-13 to 10-5-0, Exterior(2) 10-5-0 to 14-9-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Ceiling dead load (10.0 psf) on member(s), 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s), 7-11, 3-13
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
- 7) Attic room checked for L/360 deflection.





Job Truss Truss Type Qty Ply Mohler/Lot 22 Quail Glen/Harnett E12651718 J0119-0148 C3 ATTIC Job Reference (optional)

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8-6-0 10-4-8 12-3-0 13-6-8 16-3-12 1-3-8 1-10-8 1-10-8 1-3-8 2-9-4 20-5-8 -0-11-0 0-11-0 4-5-4

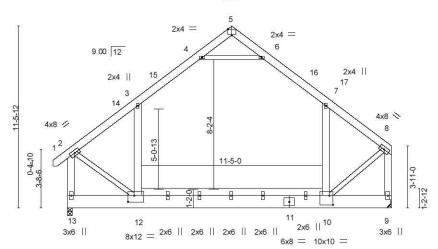
4x6 =

Scale = 1:72.8

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

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

except end verticals.



4-5-4	10-4-8	16-3-12	20-5-8
4-5-4	5-11-4	5-11-4	4-1-12

**BRACING-**

TOP CHORD

**BOT CHORD** 

Plate Off	Plate Offsets (X,Y)— [5:0-3-0,Edge], [10:0-2-12,0-7-0], [12:0-4-12,0-4-12]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.20	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.32	10-12	>760	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matri	x-S	Wind(LL)	0.05	10-12	>999	240	Weight: 231 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1

**BOT CHORD** 2x10 SP No.1 \*Except\*

10-12: 2x6 SP No.1

WEBS 2x6 SP No.1 \*Except\*

4-6: 2x4 SP No.1, 2-12,8-10: 2x4 SP No.3

REACTIONS. (lb/size) 13=1159/0-3-8, 9=1104/Mechanical

Max Horz 13=195(LC 9)

Max Grav 13=1424(LC 20), 9=1390(LC 20)

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

TOP CHORD 2-3=-1234/0, 3-4=-923/135, 4-5=0/404, 5-6=0/402, 6-7=-928/136, 7-8=-1225/0,

2-13=-1555/0, 8-9=-1607/0 10-12=0/866

**BOT CHORD** WEBS 3-12=-152/405, 7-10=-165/397, 4-6=-1218/135, 2-12=0/1014, 8-10=0/1096

### 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) -0-9-0 to 3-7-13, Interior(1) 3-7-13 to 10-5-0, Exterior(2) 10-5-0 to 14-9-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-12, 7-10
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-12
- Refer to girder(s) for truss to truss connections.
- 8) Attic room checked for L/360 deflection.



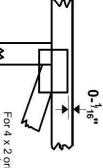


### Symbols

# PLATE LOCATION AND ORIENTATION



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



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

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

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

### PLATE SIZE



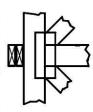
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

# LATERAL BRACING LOCATION



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

### BEARING



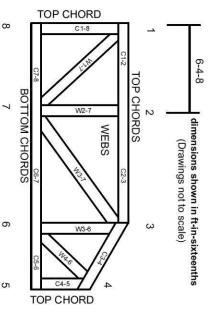
number where bearings occur. Min size shown is for crushing only reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

### Industry Standards:

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

DSB-89: ANSI/TPI1:

# 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

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

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MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

# General Safety Notes

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

- Ņ Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- may require bracing, or alternative Tor I bracing should be considered. wide truss spacing, individual lateral braces themselves Truss bracing must be designed by an engineer. For
- stack materials on inadequately braced trusses. Never exceed the design loading shown and never
- 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.

5

- 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.
- shall not exceed 19% at time of fabrication. Unless otherwise noted, moisture content of lumber
- 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. responsibility of truss fabricator. General practice is to
- 11. 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
- 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 project engineer before use. environmental, health or performance risks. Consult with
- 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.