

# Reaction Summary of Order



**ROOF & FLOOR  
TRUSSES & BEAMS**

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

REQ. QUOTE DATE	//	ORDER #	J0222-1061
ORDER DATE	02/28/22	QUOTE #	
DELIVERY DATE	//	CUSTOMER ACCT #	0000006780
DATE OF INVOICE	//	CUSTOMER PO #	
ORDERED BY	Matt Norris	INVOICE #	
COUNTY	Johnston	TERMS	TO BE PRE-PAID
SUPERINTENDANT		SALES REP	Lenny Norris
JOBSITE PHONE #		SALES AREA	David Landry

CUMBERLAND HOMES, INC.	<b>Cumberland Homes, Inc.</b> PO Box 727 Dunn, NC 28335 (910) 890-4321	<b>JOB NAME:</b> Holland Residence <b>MODEL:</b> Roof <b>TAG:</b> Holland Residence <b>DELIVERY INSTRUCTIONS:</b>	<b>LOT # - SUBDIV:-</b> <b>JOB CATEGORY:</b>
	<b>Cumberland Homes, Inc</b> Johnston Co., NC	<b>SPECIAL INSTRUCTIONS:</b>	<b>PLAN SEAL DATE:</b>

BUILDING DEPARTMENT Roof Order	OVERHANG INFO		HEEL HEIGHT	00-06-08	REQ. LAYOUTS	REQ. ENGINEERING	QUOTE	DTL	DATE
	END CUT	RETURN			NONE	NONE	LAYOUT	DTL	02/28/22
			GABLE STUDS	24 IN. OC			CUTTING	DTL	03/01/22

## ROOF TRUSSES

### LOADING INFORMATION

TCLL-TCDL-BCLL-BCDL	STRESS INCR.
20.0,10.0,0.0,10.0	1.15

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

PROFILE	QTY	PITCH		TYPE ID	BASE O/A	LUMBER		OVERHANG		REACTIONS		
		TOP	BOT			TOP	BOT	LEFT	RIGHT			
	5	10.00	9.00	PIGGYBACK A1	35-11-00 35-11-00	2 X 6	2 X 6	01-03-00		Joint 9 278.8 lbs. -291.0 lbs.	Joint 13 2077.7 lbs. -240.7 lbs.	Joint 17 732.9 lbs. -130.8 lbs.
	1	10.00	9.00	GABLE A1SG	35-11-00 35-11-00	2 X 6	2 X 6	01-03-00		Joint 15 336.2 lbs. -428.0 lbs.	Joint 19 2115.8 lbs. -522.3 lbs.	Joint 27 718.3 lbs. -268.7 lbs.
	7	10.00	9.00	PIGGYBACK A2	36-04-00 36-04-00	2 X 6	2 X 6		01-03-00	Joint 10 154.2 lbs. -616.3 lbs.	Joint 15 2977.8 lbs. -277.2 lbs.	Joint 20 523.7 lbs. -86.1 lbs.
	5	10.00	0.00	PIGGYBACK A3	35-11-00 35-11-00	2 X 6	2 X 6	01-03-00	01-03-00	Joint 9 855.2 lbs. -173.4 lbs.	Joint 14 1268.9 lbs. -92.2 lbs.	Joint 18 1186.3 lbs. -45.0 lbs.
	1	10.00	0.00	PIGGYBACK A3A	35-11-00 35-11-00	2 X 6	2 X 6		01-03-00	Joint 8 857.3 lbs. -171.7 lbs.	Joint 13 1268.2 lbs. -91.2 lbs.	Joint 17 1118.0 lbs. -30.5 lbs.
	1	10.00	0.00	PIGGYBACK A4SG	24-08-00 24-08-00	2 X 6	2 X 6	01-03-00		Joint 8 1160.9 lbs. -94.8 lbs.	Joint 12 1215.5 lbs. 16.6 lbs.	
	2	10.00	0.00	PIGGYBACK B1	35-11-00 35-11-00	2 X 6	2 X 6			Joint 1 934.1 lbs. -71.2 lbs.	Joint 10 539.6 lbs. -202.5 lbs.	Joint 12 1763.4 lbs. -206.2 lbs.
	1	10.00	0.00	GABLE B1SG	35-11-00 35-11-00	2 X 6	2 X 6			Joint 1 924.9 lbs. -191.4 lbs.	Joint 13 545.8 lbs. -276.1 lbs.	Joint 17 1655.6 lbs. -378.9 lbs.
	3	10.00	10.00	PIGGYBACK C1	31-07-00 31-07-00	2 X 6	2 X 6		01-03-00	Joint 1 1262.1 lbs. -33.2 lbs.	Joint 7 1331.5 lbs. -49.0 lbs.	
	1	10.00	10.00	GABLE C1SG	31-07-00 31-07-00	2 X 6	2 X 6		01-03-00	Joint 1 1262.1 lbs. -187.5 lbs.	Joint 11 1331.5 lbs. -219.6 lbs.	

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

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ORDERED BY	Matt Norris	INVOICE #	
COUNTY	Johnston	TERMS	TO BE PRE-PAID
SUPERINTENDANT		SALES REP	Lenny Norris
JOBSITE PHONE #		SALES AREA	David Landry

<b>Cumberland Homes, Inc.</b> PO Box 727 Dunn, NC 28335 (910) 890-4321	JOB NAME: Holland Residence MODEL: Roof TAG: Holland Residence DELIVERY INSTRUCTIONS:	LOT # - SUBDIV:- JOB CATEGORY:
	SPECIAL INSTRUCTIONS:	

PLAN SEAL DATE: BY DATE

BUILDING DEPARTMENT Roof Order	OVERHANG INFO	HEEL HEIGHT	00-06-08	REQ. LAYOUTS	REQ. ENGINEERING	QUOTE	DTL	02/28/22
	END CUT	RETURN		NONE	NONE	LAYOUT	DTL	03/01/22
			GABLE STUDS			24 IN. OC	CUTTING	DTL

## ROOF TRUSSES

### LOADING INFORMATION

TCLL-TCDL-BCLL-BCDL	STRESS INCR.
20.0,10.0,0.0,10.0	1.15

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

PROFILE	QTY	PITCH		TYPE ID	BASE O/A	LUMBER		OVERHANG		REACTIONS				
		TOP	BOT			TOP	BOT	LEFT	RIGHT					
	1	10.00	10.00	PIGGYBACK C2	27-03-08 27-03-08	2 X 6	2 X 6			Joint 1 1082.5 lbs. -27.6 lbs.	Joint 6 1088.1 lbs. -10.1 lbs.			
	5	10.00	0.00	PIGGYBACK C3	27-03-08 27-03-08	2 X 6	2 X 6			Joint 1 1082.5 lbs. -27.3 lbs.	Joint 7 1103.8 lbs. -8.6 lbs.			
	1	10.00	0.00	PIGGYBACK C4	24-08-00 24-08-00	2 X 6	2 X 6			Joint 2 256.2 lbs. -107.5 lbs.	Joint 7 997.5 lbs. -2.5 lbs.	Joint 11 963.8 lbs. -11.0 lbs.		
	4	10.00	0.00	COMMON D1	29-11-00 29-11-00	2 X 6	2 X 6		01-03-00	Joint 1 1414.9 lbs. -49.0 lbs.	Joint 9 1479.3 lbs. -64.9 lbs.			
	1	10.00	0.00	GABLE D1SG	29-11-00 29-11-00	2 X 6	2 X 6		01-03-00	Joint 1 413.3 lbs. -37.2 lbs.	Joint 15 1033.3 lbs. -122.3 lbs.	Joint 19 378.5 lbs. 105.5 lbs.	Joint 20 327.1 lbs. -353.9 lbs.	Joint 21 293.0 lbs. -99.8 lbs.
	3	10.00	0.00	COMMON E1	17-07-00 17-07-00	2 X 6	2 X 6	01-03-00	01-03-00	Joint 2 769.6 lbs. -94.1 lbs.	Joint 6 769.6 lbs. -94.1 lbs.			
	1 2 Ply	10.00	0.00	COMMON E1-GR	17-07-00 17-07-00	2 X 6	2 X 6	01-03-00	01-03-00	Joint 2 2003.8 lbs. -1199.8 lbs.	Joint 6 1657.0 lbs. -1283.2 lbs.			
	1	10.00	0.00	GABLE E1GE	17-07-00 17-07-00	2 X 6	2 X 6	01-03-00	01-03-00	Joint 2 769.6 lbs. -43.1 lbs.	Joint 10 769.6 lbs. -43.1 lbs.			
	3	12.00	0.00	ATTIC G1	24-07-00 24-07-00	2 X 6	2 X 10	01-03-00	01-03-00	Joint 11 1712.3 lbs. 215.9 lbs.	Joint 15 1712.3 lbs. 215.9 lbs.			
	2 3 Ply	12.00	0.00	ATTIC G1-GR	24-07-00 24-07-00	2 X	2 X 10	01-03-00	01-03-00	Joint 11 5991.1 lbs. 721.1 lbs.	Joint 15 10152.1 lbs. 148.1 lbs.			

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SUPERINTENDANT		SALES REP	Lenny Norris
JOBSITE PHONE #		SALES AREA	David Landry

<b>Cumberland Homes, Inc.</b> PO Box 727 Dunn, NC 28335 (910) 890-4321	<b>JOB NAME:</b> Holland Residence <b>MODEL:</b> Roof <b>TAG:</b> Holland Residence <b>DELIVERY INSTRUCTIONS:</b>	<b>LOT # - SUBDIV:-</b> <b>JOB CATEGORY:</b>
	<b>SPECIAL INSTRUCTIONS:</b>	

**PLAN SEAL DATE:**  
BY DATE

<b>BUILDING DEPARTMENT</b>	<b>OVERHANG INFO</b>	<b>HEEL HEIGHT</b>	00-06-08	<b>REQ. LAYOUTS</b>	<b>REQ. ENGINEERING</b>	<b>QUOTE</b>	DTL	02/28/22
Roof Order	END CUT    RETURN			<b>NONE</b>	<b>NONE</b>	LAYOUT	DTL	03/01/22
		<b>GABLE STUDS</b>	24 IN. OC			CUTTING	DTL	02/28/22

## ROOF TRUSSES

### LOADING INFORMATION

TCLL-TCDL-BCLL-BCDL	STRESS INCR.
20.0,10.0,0.0,10.0	1.15

**ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)**

PROFILE	QTY	PITCH		TYPE ID	BASE O/A	LUMBER		OVERHANG		REACTIONS
		TOP	BOT			TOP	BOT	LEFT	RIGHT	
	1	12.00	0.00	GABLE G1SG	24-07-00 24-07-00	2 X 6	2 X 10	01-03-00	01-03-00	Joint 20 1998.9 lbs. -13.3 lbs. Joint 26 1986.3 lbs. -8.9 lbs.
	4	12.00	0.00	ROOF G2	24-07-00 24-07-00	2 X 8	2 X 6		01-03-00	Joint 8 803.0 lbs. -95.7 lbs. Joint 14 1369.8 lbs. -530.6 lbs. Joint 15 432.6 lbs. -375.1 lbs.
	2	12.00	0.00	GABLE G2SG	24-07-00 24-07-00	2 X 8	2 X 6		01-03-00	Joint 1 183.7 lbs. -33.1 lbs. Joint 3 183.7 lbs. -33.1 lbs. Joint 12 803.2 lbs. -218.2 lbs. Joint 20 1434.1 lbs. -918.2 lbs. Joint 21 649.0 lbs. -473.6 lbs.
	1	12.00	0.00	ATTIC G3	24-07-00 24-07-00	2 X 6	2 X 10		01-03-00	Joint 10 1714.1 lbs. 220.8 lbs. Joint 14 1643.3 lbs. 233.2 lbs.
	1	12.00	0.00	ATTIC G3A	24-07-00 24-07-00	2 X 6	2 X 10		01-03-00	Joint 10 2571.2 lbs. 326.4 lbs. Joint 14 2464.9 lbs. 347.6 lbs.
	1	12.00	0.00	GABLE G3GE	24-07-00 24-07-00	2 X 6	2 X 10		01-03-00	Joint 19 1714.1 lbs. 87.8 lbs. Joint 25 1643.3 lbs. 119.2 lbs.
	4	10.00	0.00	COMMON H1	16-11-00 16-11-00	2 X 6	2 X 6	01-03-00	01-03-00	Joint 2 742.9 lbs. -41.9 lbs. Joint 6 742.9 lbs. -41.9 lbs.
	1	10.00	0.00	GABLE H1GE	16-11-00 16-11-00	2 X 6	2 X 6	01-03-00	01-03-00	Joint 2 198.5 lbs. -68.6 lbs. Joint 12 162.1 lbs. -21.2 lbs. Joint 14 175.4 lbs. -175.0 lbs. Joint 15 183.1 lbs. -107.7 lbs. Joint 16 183.4 lbs. -87.3 lbs.
	8	4.00	0.00	JACK-CLOSED J1	03-10-08 03-10-08	2 X 4	2 X 6	01-03-00		Joint 2 244.9 lbs. -67.6 lbs. Joint 4 128.9 lbs. -20.2 lbs.
	3	12.00	0.00	COMMON K1	13-04-00 13-04-00	2 X 6	2 X 6	01-03-00	01-03-00	Joint 6 595.6 lbs. -30.4 lbs. Joint 8 595.6 lbs. -30.4 lbs.

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	<b>Cumberland Homes, Inc.</b> Johnston Co., NC	<b>SPECIAL INSTRUCTIONS:</b>  <b>PLAN SEAL DATE:</b>

<b>BUILDING DEPARTMENT</b>	<b>OVERHANG INFO</b>	<b>HEEL HEIGHT</b>	00-06-08	<b>REQ. LAYOUTS</b>	<b>REQ. ENGINEERING</b>	<b>QUOTE</b>	<b>DTL</b>	<b>DATE</b>
Roof Order	END CUT	RETURN		<b>NONE</b>	<b>NONE</b>	LAYOUT	DTL	02/28/22
		<b>GABLE STUDS</b>	24 IN. OC			<b>CUTTING</b>	DTL	03/01/22

## ROOF TRUSSES

### LOADING INFORMATION

TCLL-TCDL-BCLL-BCDL	STRESS INCR.
20.0,10.0,0.0,10.0	1.15

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

PROFILE	QTY	PITCH		TYPE ID	BASE O/A	LUMBER		OVERHANG		REACTIONS				
		PLY	TOP			BOT	TOP	BOT	LEFT		RIGHT			
	2	12.00	0.00	GABLE K1GE	13-04-00 13-04-00	2 X 6	2 X 6	01-03-00	01-03-00	Joint 10 338.1 lbs. -159.9 lbs.	Joint 11 365.9 lbs. -379.9 lbs.	Joint 12 188.7 lbs. -109.1 lbs.	Joint 13 182.7 lbs. 44.4 lbs.	Joint 14 191.4 lbs. -109.4 lbs.
	5	12.00	0.00	COMMON K2	13-04-00 13-04-00	2 X 6	2 X 6	01-03-00		Joint 5 510.8 lbs. -31.3 lbs.	Joint 7 599.8 lbs. -24.8 lbs.			
	1 2 Ply	12.00	0.00	COMMON K2-GR	13-04-00 13-04-00	2 X 6	2 X 8			Joint 4 3994.7 lbs. -358.4 lbs.	Joint 6 4109.6 lbs. -242.2 lbs.			
	1 2 Ply	12.00	0.00	COMMON K2A-GR	13-04-00 13-04-00	2 X 6	2 X 6		01-03-00	Joint 5 3715.0 lbs. -140.4 lbs.	Joint 7 3770.5 lbs. -152.0 lbs.			
	1	12.00	0.00	COMMON L1	15-05-00 15-05-00	2 X 6	2 X 6	01-03-00	01-03-00	Joint 2 781.9 lbs. -36.9 lbs.	Joint 4 781.9 lbs. -36.9 lbs.			
	1 2 Ply	12.00	0.00	COMMON L1-GR	15-05-00 15-05-00	2 X 6	2 X 6	01-03-00	01-03-00	Joint 2 2687.3 lbs. -398.0 lbs.	Joint 4 2309.8 lbs. -331.8 lbs.			
	1	12.00	0.00	GABLE L1GE	15-05-00 15-05-00	2 X 6	2 X 6	01-03-00	01-03-00	Joint 2 210.0 lbs. -72.8 lbs.	Joint 10 182.9 lbs. -35.6 lbs.	Joint 12 164.7 lbs. -124.6 lbs.	Joint 13 199.0 lbs. -155.7 lbs.	Joint 14 188.2 lbs. -114.7 lbs.
	8	3.00	0.00	MONOPITCH M1	09-08-00 09-08-00	2 X 4	2 X 6	01-03-00	00-03-08	Joint 2 475.5 lbs. -192.1 lbs.	Joint 6 362.4 lbs. -151.9 lbs.			
	8	3.00	0.00	MONOPITCH M2	05-00-00 05-00-00	2 X 4	2 X 6	01-03-00		Joint 2 280.5 lbs. -122.9 lbs.	Joint 4 173.6 lbs. -70.3 lbs.			
	5	3.00	0.00	MONOPITCH M3	09-11-08 09-11-08	2 X 4	2 X 6	01-03-00		Joint 2 475.2 lbs. -84.5 lbs.	Joint 8 351.9 lbs. -42.9 lbs.			

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	MODEL: Roof	TAG: Holland Residence	JOB CATEGORY:
Cumberland Homes, Inc. Johnston Co., NC	DELIVERY INSTRUCTIONS:		
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BUILDING DEPARTMENT Roof Order	OVERHANG INFO	HEEL HEIGHT	00-06-08	REQ. LAYOUTS	REQ. ENGINEERING	QUOTE	DTL	02/28/22
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			GABLE STUDS	24 IN. OC			CUTTING	DTL

## ROOF TRUSSES

### LOADING INFORMATION

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20.0,10.0,0.0,10.0	1.15

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

PROFILE	QTY PLY	PITCH		TYPE ID	BASE O/A	LUMBER		OVERHANG		REACTIONS				
		TOP	BOT			TOP	BOT	LEFT	RIGHT					
	12	10.00	0.00	PIGGYBACK PB1	09-08-09 09-08-09	2 X 4	2 X 4			Joint 2 232.1 lbs. -27.4 lbs.	Joint 4 232.1 lbs. -37.1 lbs.	Joint 6 362.7 lbs. 9.6 lbs.		
	2	10.00	0.00	GABLE PB1GE	09-08-09 09-08-09	2 X 4	2 X 4			Joint 2 88.8 lbs. -44.4 lbs.	Joint 8 72.5 lbs. -19.6 lbs.	Joint 10 144.4 lbs. -93.1 lbs.	Joint 11 199.0 lbs. -120.6 lbs.	Joint 12 133.0 lbs. 29.4 lbs.
	9	12.00	0.00	PIGGYBACK PB2	04-10-06 04-10-06	2 X 4	2 X 4			Joint 2 141.9 lbs. -47.6 lbs.	Joint 4 141.9 lbs. -54.1 lbs.	Joint 6 151.0 lbs. 8.8 lbs.		
	18	10.00	0.00	PIGGYBACK PB3	13-08-09 13-08-09	2 X 4	2 X 4			Joint 2 316.3 lbs. -35.9 lbs.	Joint 4 316.3 lbs. -49.2 lbs.	Joint 6 684.7 lbs. 12.5 lbs.		
	2	10.00	0.00	GABLE PB3GE	13-08-09 13-08-09	2 X 4	2 X 4			Joint 2 123.4 lbs. -68.9 lbs.	Joint 10 98.6 lbs. -32.3 lbs.	Joint 12 148.5 lbs. -96.6 lbs.	Joint 13 187.9 lbs. -115.8 lbs.	Joint 14 189.8 lbs. -112.4 lbs.
	1	10.00	7.00	SCISSORS T1	16-07-00 16-07-00	2 X 6	2 X 6	01-03-00	01-03-00	Joint 2 725.0 lbs. -42.9 lbs.	Joint 6 725.0 lbs. -42.9 lbs.			
	1	10.00	7.00	GABLE T1GE	16-07-00 16-07-00	2 X 6	2 X 6	01-03-00	01-03-00	Joint 2 286.9 lbs. -193.3 lbs.	Joint 12 186.3 lbs. -41.7 lbs.	Joint 14 198.9 lbs. -177.4 lbs.	Joint 15 180.5 lbs. -106.4 lbs.	Joint 16 190.5 lbs. -98.6 lbs.
	5	10.00	7.00	SCISSORS T2	16-07-00 16-07-00	2 X 6	2 X 6		01-03-00	Joint 1 641.5 lbs. -23.6 lbs.	Joint 5 728.3 lbs. -43.0 lbs.			
	1	10.00	7.00	SCISSORS T3	16-07-00 16-07-00	2 X 6	2 X 6			Joint 1 644.9 lbs. -23.7 lbs.	Joint 5 644.9 lbs. -23.7 lbs.			
	1	***	7.00	HALF HIP T4	16-07-00 16-07-00	2 X 6	2 X 6			Joint 5 639.9 lbs. 24.4 lbs.	Joint 7 661.4 lbs. -107.6 lbs.			

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Roof Order	END CUT RETURN	GABLE STUDS	24 IN. OC	NONE	NONE	LAYOUT	DTL	03/01/22
						CUTTING	DTL	02/28/22

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### LOADING INFORMATION

TCLL-TCDL-BCLL-BCDL	STRESS INCR.
20.0,10.0,0.0,10.0	1.15

ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)

PROFILE	QTY	PITCH		TYPE ID	BASE O/A	LUMBER		OVERHANG		REACTIONS
		TOP	BOT			TOP	BOT	LEFT	RIGHT	
	1	***	7.00	HALF HIP T5	16-07-00 16-07-00	2 X 6	2 X 6			Joint 6 639.9 lbs. 48.9 lbs. Joint 8 661.4 lbs. -134.7 lbs.
	1	10.00	0.00	VALLEY VE1	14-00-12 14-00-12	2 X 4	2 X 4			Joint 1 127.5 lbs. -23.7 lbs. Joint 5 109.0 lbs. 0.9 lbs. Joint 6 350.3 lbs. -130.0 lbs. Joint 7 238.4 lbs. 55.4 lbs. Joint 8 350.6 lbs. -130.1 lbs.
	1	10.00	0.00	VALLEY VE2	10-00-12 10-00-12	2 X 4	2 X 4			Joint 1 199.4 lbs. -21.9 lbs. Joint 3 199.3 lbs. -30.4 lbs. Joint 4 347.7 lbs. 10.9 lbs.
	1	10.00	0.00	VALLEY VE3	06-00-12 06-00-12	2 X 4	2 X 4			Joint 1 123.3 lbs. -18.6 lbs. Joint 3 123.3 lbs. -23.5 lbs. Joint 4 179.8 lbs. 18.4 lbs.
	2	12.00	0.00	VALLEY VK1	15-01-10 15-01-10	2 X 4	2 X 4			Joint 1 164.3 lbs. -30.7 lbs. Joint 5 142.8 lbs. -2.1 lbs. Joint 6 453.8 lbs. -181.5 lbs. Joint 7 413.5 lbs. 60.3 lbs. Joint 8 454.2 lbs. -181.7 lbs.
	2	12.00	0.00	VALLEY VK2	11-09-10 11-09-10	2 X 4	2 X 4			Joint 1 112.7 lbs. -68.1 lbs. Joint 5 90.6 lbs. -46.0 lbs. Joint 6 337.7 lbs. -160.3 lbs. Joint 7 223.3 lbs. 54.7 lbs. Joint 8 337.9 lbs. -160.4 lbs.
	2	12.00	0.00	VALLEY VK3	08-05-10 08-05-10	2 X 4	2 X 4			Joint 1 190.7 lbs. -34.0 lbs. Joint 3 190.6 lbs. -34.0 lbs. Joint 4 244.9 lbs. 32.3 lbs.
	2	12.00	0.00	VALLEY VK4	05-01-10 05-01-10	2 X 4	2 X 4			Joint 1 109.5 lbs. -19.5 lbs. Joint 3 109.4 lbs. -19.5 lbs. Joint 4 140.6 lbs. 18.5 lbs.
	1	12.00	0.00	VALLEY VL1	14-06-00 14-06-00	2 X 4	2 X 4			Joint 1 188.9 lbs. -32.4 lbs. Joint 5 169.1 lbs. -13.5 lbs. Joint 6 183.8 lbs. -80.4 lbs. Joint 8 296.8 lbs. -143.0 lbs. Joint 9 165.0 lbs. 12.3 lbs.
	1	12.00	0.00	VALLEY VL2	15-00-12 15-00-12	2 X 4	2 X 4			Joint 1 163.0 lbs. -31.0 lbs. Joint 5 141.6 lbs. -2.5 lbs. Joint 6 450.6 lbs. -180.7 lbs. Joint 7 412.9 lbs. 60.2 lbs. Joint 8 450.8 lbs. -180.9 lbs.

Reaction Summary of Order



ROOF & FLOOR TRUSSES & BEAMS

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

REQ. QUOTE DATE	//	ORDER #	J0222-1061
ORDER DATE	02/28/22	QUOTE #	
DELIVERY DATE	//	CUSTOMER ACCT #	0000006780
DATE OF INVOICE	//	CUSTOMER PO #	
ORDERED BY	Matt Norris	INVOICE #	
COUNTY	Johnston	TERMS	TO BE PRE-PAID
SUPERINTENDANT		SALES REP	Lenny Norris
JOBSITE PHONE #		SALES AREA	David Landry

CUMBERLAND HOMES, INC. PO Box 727 DUNN, NC 28335 (910) 890-4321	JOB NAME: Holland Residence MODEL: Roof TAG: Holland Residence DELIVERY INSTRUCTIONS:	LOT # - SUBDIV: - JOB CATEGORY:
	SPECIAL INSTRUCTIONS:	
CUMBERLAND HOMES, INC. JOHNSTON CO., NC	PLAN SEAL DATE:	

BUILDING DEPARTMENT	OVERHANG INFO	HEEL HEIGHT	00-06-08	REQ. LAYOUTS	REQ. ENGINEERING	QUOTE	DTL	02/28/22
Roof Order	END CUT	RETURN	GABLE STUDS	24 IN. OC	NONE	NONE	LAYOUT	DTL
							CUTTING	DTL
								03/01/22
								02/28/22

ROOF TRUSSES		LOADING INFORMATION		TOLL-TCDL-BCLL-BCDL		STRESS INCR.		ROOF TRUSS SPACING: 24.0 IN. O.C. (TYP.)								
PROFILE	QTY	PITCH		TYPE ID	BASE O/A	LUMBER		OVERHANG		REACTIONS						
	PLY	TOP	BOT			TOP	BOT	LEFT	RIGHT							
	1	12.00	0.00	VALLEY VL3	11-08-12 11-08-12	2 X 4	2 X 4			Joint 1 113.0 lbs. -70.2 lbs.	Joint 5 91.0 lbs. -48.2 lbs.	Joint 6 337.8 lbs. -160.5 lbs.	Joint 7 223.2 lbs. 54.5 lbs.	Joint 8 338.1 lbs. -160.6 lbs.		
	1	12.00	0.00	VALLEY VL4	08-04-12 08-04-12	2 X 4	2 X 4			Joint 1 188.9 lbs. -33.7 lbs.	Joint 3 188.9 lbs. -33.7 lbs.	Joint 4 242.6 lbs. 32.0 lbs.				
	1	12.00	0.00	VALLEY VL5	05-00-12 05-00-12	2 X 4	2 X 4			Joint 1 107.7 lbs. -19.2 lbs.	Joint 3 107.7 lbs. -19.2 lbs.	Joint 4 138.3 lbs. 18.2 lbs.				
	1	10.00	0.00	VALLEY VT1	09-06-14 09-06-14	2 X 4	2 X 4			Joint 1 174.6 lbs. -91.0 lbs.	Joint 6 42.0 lbs. -100.3 lbs.	Joint 7 275.5 lbs. -61.7 lbs.	Joint 8 462.9 lbs. -113.9 lbs.	Joint 9 273.6 lbs. -110.2 lbs.		
	1	10.00	0.00	VALLEY VT2	07-06-14 07-06-14	2 X 4	2 X 4			Joint 1 125.8 lbs. 2.1 lbs.	Joint 4 85.3 lbs. -135.8 lbs.	Joint 5 361.6 lbs. -150.9 lbs.	Joint 6 417.1 lbs. -125.3 lbs.			
	1	10.00	0.00	VALLEY VT3	05-06-14 05-06-14	2 X 4	2 X 4			Joint 1 123.8 lbs. -76.0 lbs.	Joint 4 114.9 lbs. -182.9 lbs.	Joint 5 353.5 lbs. -185.6 lbs.	Joint 6 315.1 lbs. -101.1 lbs.			
	1	10.00	0.00	VALLEY VT4	03-06-14 03-06-14	2 X 4	2 X 4			Joint 1 102.7 lbs. 32.1 lbs.	Joint 3 108.4 lbs. -172.8 lbs.	Joint 4 338.2 lbs. -176.5 lbs.				

ITEMS					
QTY	ITEM TYPE	SIZE	LENGTH FT-IN-16	PART NUMBER	NOTES
35	Hangers, USP	HUS 26			SIMPSON (HUS26)
2	LVL Beams (Sized)	LVL, 1-3/4" x 11-7/8" (S)	12-00-00		BM1
3	LVL Beams (Sized)	LVL, 1-3/4" x 16" (S)	15-00-00		BM2

# Reaction Summary of Order



**ROOF & FLOOR  
TRUSSES & BEAMS**

Relly Road Industrial Park P.O. Box 40408  
Fayetteville, N.C. 28307 (910) 864-TRUS

REQ. QUOTE DATE	//	ORDER #	J0222-1061
ORDER DATE	02/28/22	QUOTE #	
DELIVERY DATE	//	CUSTOMER ACCT #	0000006780
DATE OF INVOICE	//	CUSTOMER PO #	
ORDERED BY	Matt Norris	INVOICE #	
COUNTY	Johnston	TERMS	TO BE PRE-PAID
SUPERINTENDANT		SALES REP	Lenny Norris
JOBSITE PHONE #		SALES AREA	David Landry

<b>Cumberland Homes, Inc.</b> PO Box 727 Dunn, NC 28335 (910) 890-4321	JOB NAME: Holland Residence MODEL: Roof TAG: Holland Residence DELIVERY INSTRUCTIONS:	LOT # - SUBDIV:- JOB CATEGORY:
	<b>Cumberland Homes, Inc.</b> Johnston Co., NC	SPECIAL INSTRUCTIONS:

BUILDING DEPARTMENT Roof Order	OVERHANG INFO		HEEL HEIGHT	00-06-08	REQ. LAYOUTS	REQ. ENGINEERING	QUOTE	DTL	02/28/22
	END CUT	RETURN	GABLE STUDS	24 IN. OC	NONE	NONE	LAYOUT	DTL	03/01/22
							CUTTING	DTL	02/28/22

## ITEMS

QTY	ITEM TYPE	SIZE	LENGTH FT-IN-16	PART NUMBER	NOTES
2	LVL Beams (Sized)	LVL, 1-3/4" x 24" (S)	24-00-00		24" LVL is <<ONLY>> sold in 20, 24, 28 or 48 foot lengths!!! (sm) / GDH
2	Hangers, USP	THD410			SIMPSON (HHUS410)



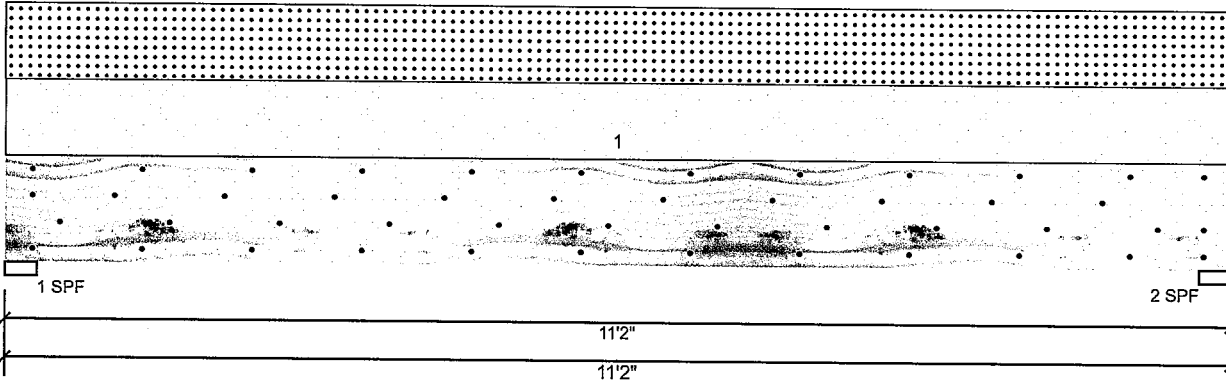


Client: Cumberland Homes, Inc.  
 Project:  
 Address:

Date: 3/1/2022  
 Input by: David Landry  
 Job Name: Holland Residence  
 Project #: J0222-1061

**BM1 Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED**

Level: Level



**Member Information**

**Reactions UNPATTERNED lb (Uplift)**

Type: Girder  
 Piles: 2  
 Moisture Condition: Dry  
 Deflection LL: 480  
 Deflection TL: 360  
 Importance: Normal - II  
 Temperature: Temp <= 100°F

Application: Floor  
 Design Method: ASD  
 Building Code: IBC/IRC 2015  
 Load Sharing: No  
 Deck: Not Checked  
 Ceiling: Gypsum 1/2"

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1967	1915	0	0
2	Vertical	0	1967	1915	0	0

**Bearings**

Bearing	Length	Dir.	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	75%	1967 / 1915	3882	L	D+S
2 - SPF	3.500"	Vert	75%	1967 / 1915	3882	L	D+S

**Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	9965 ft-lb	5'7"	22897 ft-lb	0.435 (44%)	D+S	L
Unbraced	9965 ft-lb	5'7"	9966 ft-lb	1.000 (100%)	D+S	L
Shear	3679 lb	1'3 3/8"	10197 lb	0.361 (36%)	D+S	L
LL Defl inch	0.118 (L/1094)	5'7"	0.268 (L/480)	0.439 (44%)	S	L
TL Defl inch	0.238 (L/539)	5'7"	0.357 (L/360)	0.667 (67%)	D+S	L

**Design Notes**

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all piles using 4 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top must be laterally braced at a maximum of 9'2 15/16" o.c.
- 6 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform Self Weight			Far Face	343 PLF 9 PLF	0 PLF	343 PLF	0 PLF	0 PLF	G2

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

**Lumber**  
 1. Dry service conditions, unless noted otherwise  
 2. LVL not to be treated with fire retardant or corrosive chemicals

**Handling & Installation**  
 1. LVL beams must not be cut or drilled  
 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals  
 3. Damaged Beams must not be used  
 4. Design assumes top edge is laterally restrained  
 5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

**Manufacturer Info**

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

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



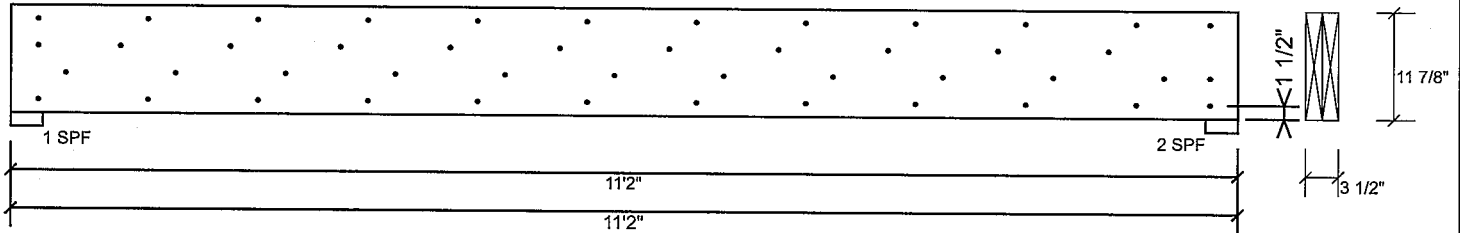
This design is valid until 11/3/2024



Client: Cumberland Homes, Inc.  
 Project:  
 Address:

Date: 3/1/2022  
 Input by: David Landry  
 Job Name: Holland Residence  
 Project #: J0222-1061

**BM1 Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED** Level: Level



**Multi-Ply Analysis**

Fasten all plies using 4 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	91.1 %
Load	343.0 PLF
Yield Limit per Foot	376.5 PLF
Yield Limit per Fastener	94.1 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	D+S
Duration Factor	1.15

**Notes**

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**Lumber**

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

**chemicals**

**Handling & Installation**

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

**Manufacturer Info**

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 301 Merritt 7 Building, 2nd Floor  
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[www.metsawood.com/us](http://www.metsawood.com/us)

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



This design is valid until 11/3/2024

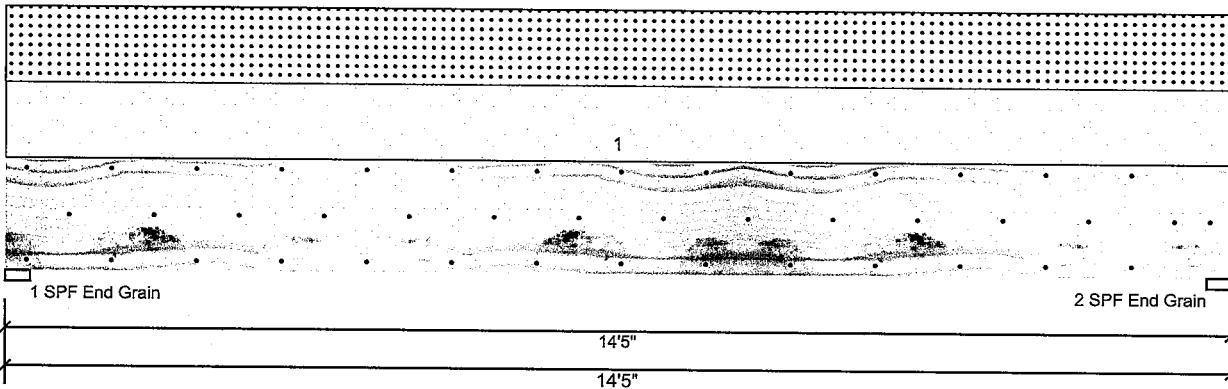


Client: Cumberland Homes, Inc.  
 Project:  
 Address:

Date: 3/1/2022  
 Input by: David Landry  
 Job Name: Holland Residence  
 Project #: J0222-1061

**BM2 Kerto-S LVL 1.750" X 16.000" 3-Ply - PASSED**

Level: Level



**Member Information**

Type:	Girder	Application:	Floor
Plies:	3	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	Yes
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal - II	Ceiling:	Gypsum 1/2"
Temperature:	Temp <= 100°F		

**Reactions UNPATTERNED lb (Uplift)**

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	5534	5399	0	0
2	Vertical	0	5534	5399	0	0

**Bearings**

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	71%	5534 / 5399	10933	L	D+S
2 - SPF End Grain	3.500"	Vert	71%	5534 / 5399	10933	L	D+S

**Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	37048 ft-lb	7'2 1/2"	62010 ft-lb	0.597 (60%)	D+S	L
Unbraced	37048 ft-lb	7'2 1/2"	37185 ft-lb	0.996 (100%)	D+S	L
Shear	8493 lb	1'7 1/2"	20608 lb	0.412 (41%)	D+S	L
LL Defl inch	0.205 (L/820)	7'2 9/16"	0.349 (L/480)	0.586 (59%)	S	L
TL Defl inch	0.414 (L/405)	7'2 9/16"	0.466 (L/360)	0.889 (89%)	D+S	L

**Design Notes**

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 4'7 3/8" o.c.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Top	749 PLF	0 PLF	749 PLF	0 PLF	0 PLF	A2
	Self Weight				19 PLF					

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

**Lumber**  
 1. Dry service conditions, unless noted otherwise  
 2. LVL not to be treated with fire retardant or corrosive chemicals

**Handling & Installation**  
 1. LVL beams must not be cut or drilled  
 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals  
 3. Damaged Beams must not be used  
 4. Design assumes top edge is laterally restrained  
 5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

**Manufacturer Info**

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 301 Merritt 7 Building, 2nd Floor  
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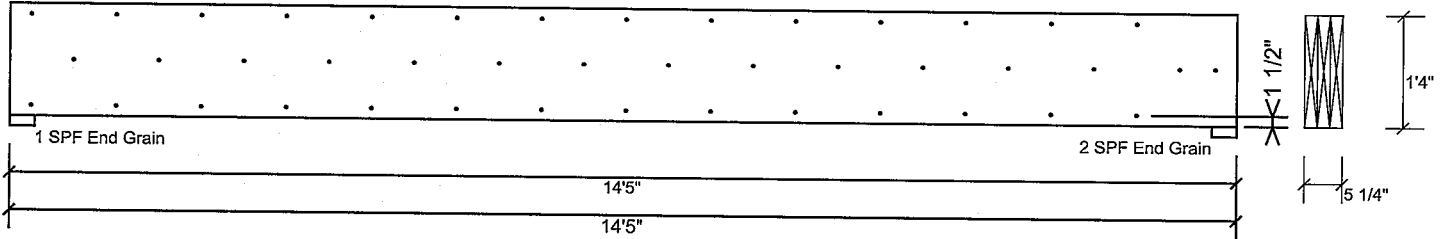


Client: Cumberland Homes, Inc.  
 Project:  
 Address:

Date: 3/1/2022  
 Input by: David Landry  
 Job Name: Holland Residence  
 Project #: J0222-1061

**BM2 Kerto-S LVL 1.750" X 16.000" 3-Ply - PASSED**

Level: Level



**Multi-Ply Analysis**

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

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

**Notes**

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**Lumber**

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

**chemicals**

**Handling & Installation**

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

**Manufacturer info**

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This design is valid until 11/3/2024

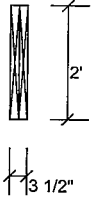
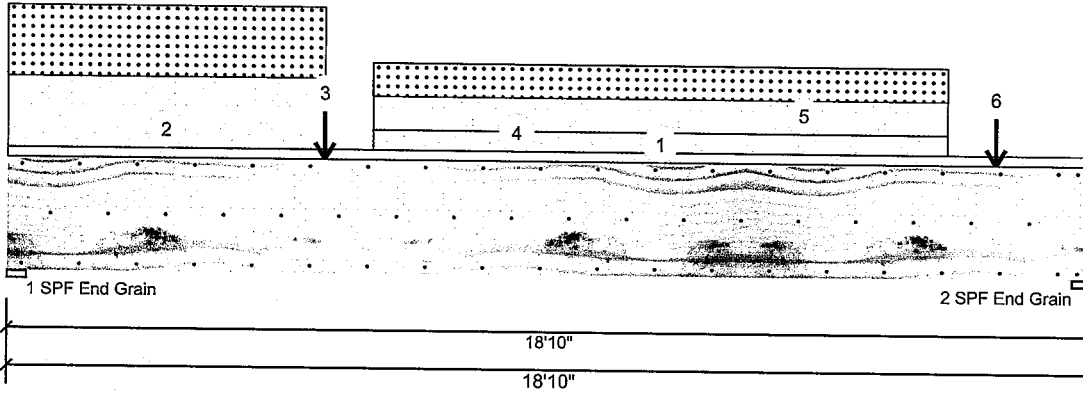


Client: Cumberland Homes, Inc.  
 Project:  
 Address:

Date: 3/1/2022  
 Input by: David Landry  
 Job Name: Holland Residence  
 Project #: J0222-1061

**GDH Kerto-S LVL 1.750" X 24.000" 2-Ply - PASSED**

Level: Level



**Member Information**

**Reactions UNPATTERNED lb (Uplift)**

Type: Girder  
 Plies: 2  
 Moisture Condition: Dry  
 Deflection LL: 480  
 Deflection TL: 360  
 Importance: Normal - II  
 Temperature: Temp <= 100°F

Application: Floor  
 Design Method: ASD  
 Building Code: IBC/IRC 2015  
 Load Sharing: No  
 Deck: Not Checked  
 Ceiling: Gypsum 1/2"

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	6410	5195	0	0
2	Vertical	0	6628	5161	0	0

**Bearings**

Bearing	Length	Dir.	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	4.000"	Vert	99%	6410 / 5195	11605	L	D+S
2 - SPF End Grain	4.063"	Vert	99%	6628 / 5161	11788	L	D+S

**Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment Unbraced	47205 ft-lb	7' 1/8"	84163 ft-lb	0.561 (56%)	D+S	L
Shear	9629 lb	16'5 15/16"	20608 lb	0.467 (47%)	D+S	L
LL Defl inch	0.179 (L/1229)	8'10 1/8"	0.458 (L/480)	0.391 (39%)	S	L
TL Defl inch	0.419 (L/525)	8'11 11/16"	0.610 (L/360)	0.686 (69%)	D+S	L

**Design Notes**

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 3'8 3/16" o.c.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Top	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall
2	Part. Uniform	0-0-0 to 5-6-0		Top	428 PLF	0 PLF	428 PLF	0 PLF	0 PLF	G1
3	Point	5-6-0		Top	2996 lb	0 lb	2996 lb	0 lb	0 lb	G1-GR
	Bearing Length	0-3-8								
4	Part. Uniform	6-4-0 to 16-4-0		Top	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall

Continued on page 2...

**Notes**

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

**Lumber**

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

**Handling & Installation**

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

**Manufacturer Info**

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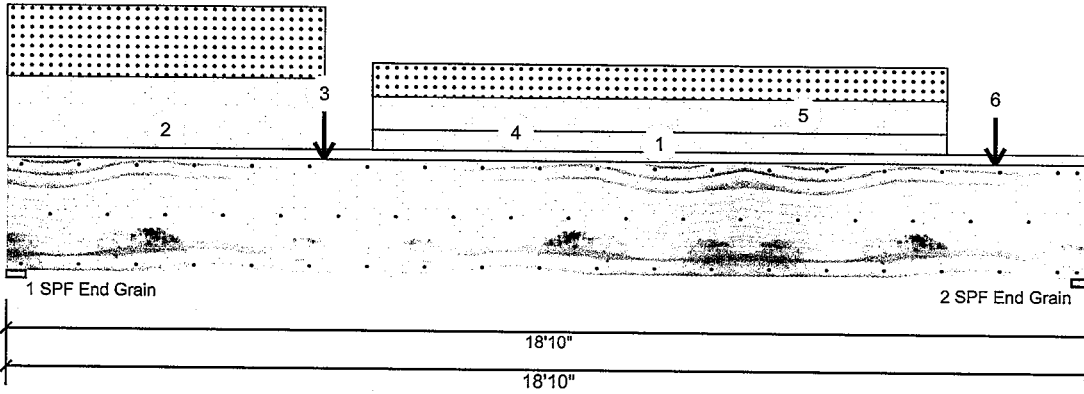


Client: Cumberland Homes, Inc.  
 Project:  
 Address:

Date: 3/1/2022  
 Input by: David Landry  
 Job Name: Holland Residence  
 Project #: J0222-1061

**GDH Kerto-S LVL 1.750" X 24.000" 2-Ply - PASSED**

Level: Level



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
5	Part. Uniform	6-4-0 to 16-4-0		Top	201 PLF	0 PLF	201 PLF	0 PLF	0 PLF	G2
6	Point	17-2-0		Top	2996 lb	0 lb	2996 lb	0 lb	0 lb	G1-GR
	Bearing Length	0-3-8								
	Self Weight				19 PLF					

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

**Lumber**  
 1. Dry service conditions, unless noted otherwise  
 2. LVL not to be treated with fire retardant or corrosive

**chemicals**  
**Handling & Installation**  
 1. LVL beams must not be cut or drilled  
 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals  
 3. Damaged Beams must not be used  
 4. Design assumes top edge is laterally restrained  
 5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

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

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



This design is valid until 11/3/2024

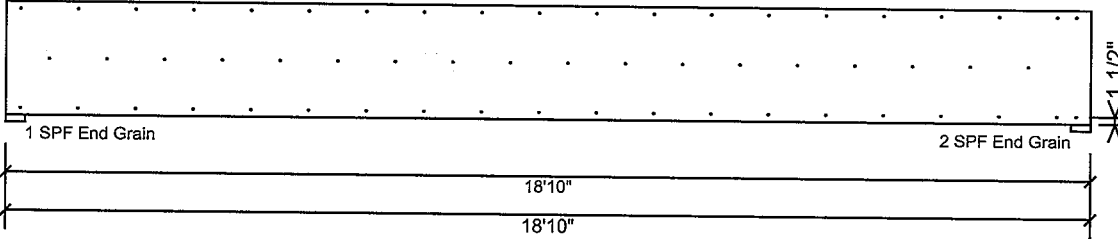


Client: Cumberland Homes, Inc.  
 Project:  
 Address:

Date: 3/1/2022  
 Input by: David Landry  
 Job Name: Holland Residence  
 Project #: J0222-1061

**GDH Kerto-S LVL 1.750" X 24.000" 2-Ply - PASSED**

Level: Level



**Multi-Ply Analysis**

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

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

**Notes**

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

**Lumber**

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

**chemicals**

**Handling & Installation**

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

**Manufacturer Info**

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

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

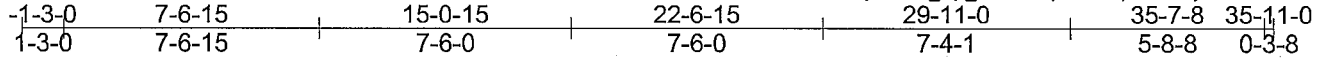


This design is valid until 11/3/2024

Job J0222-1061	Truss A1	Truss Type PIGGYBACK BASE	Qty 5	Ply 1	Holland Residence
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Comtech, Inc., Fayetteville, NC 28309, David Landry

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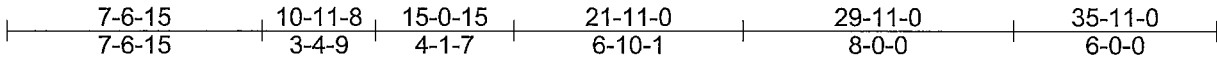
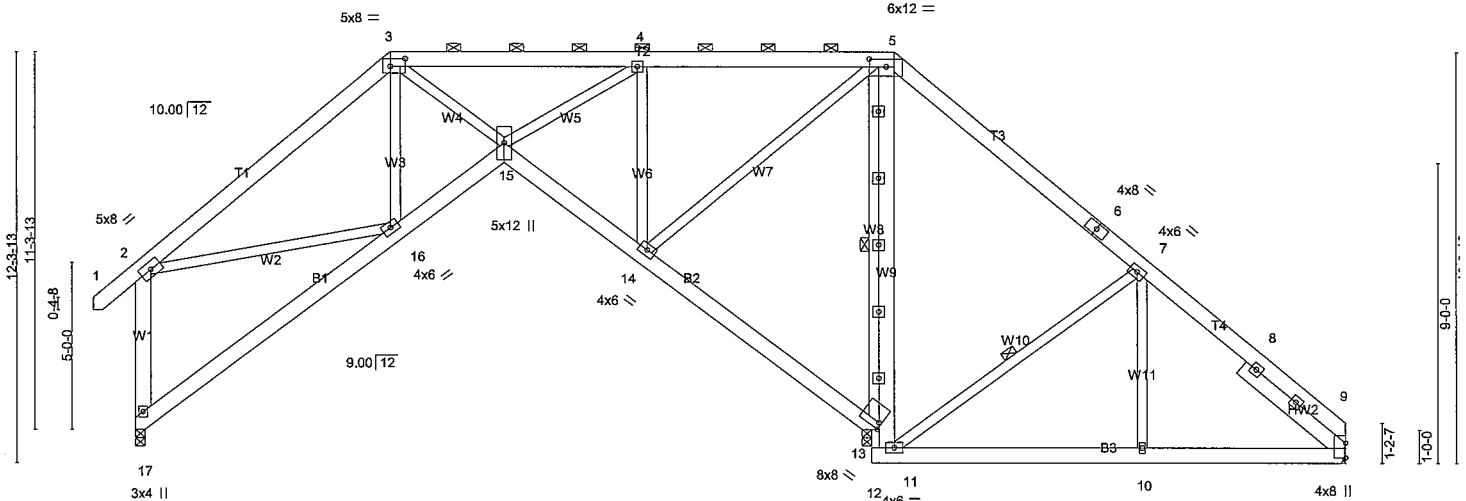


Plate Offsets (X,Y)-- [3:0-5-4,0-2-12], [5:0-6-0,0-2-13], [13:0-1-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	l/def	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.25	Vert(LL)	-0.03	15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	-0.07	13-14	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.09	13	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.04	10-11	>999	240		
									Weight: 337 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 W1,W9: 2x6 SP No.1  
 SLIDER Right 2x6 SP No.1 -x 3-10-14

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS 1 Row at midpt 5-11, 7-11

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 17=723/0-3-8 (min. 0-1-8), 13=2078/0-3-8 (min. 0-1-13), 9=143/Mechanical  
 Max Horz 17=-261(LC 8)  
 Max Uplift 17=-131(LC 13), 13=-241(LC 9), 9=-291(LC 8)  
 Max Grav 17=733(LC 23), 13=2078(LC 1), 9=279(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-18=-847/104, 18-19=-729/121, 3-19=-700/155, 3-20=-762/189, 4-20=-760/189,  
 4-21=-395/334, 5-21=-395/334, 5-6=-114/769, 6-7=-147/556, 7-22=-290/578,  
 8-22=-323/554, 8-9=-351/539, 2-17=-696/289  
 BOT CHORD 16-17=-336/378, 15-16=-226/743, 14-15=-94/263, 13-14=-627/186, 11-23=-294/151,  
 10-23=-294/151, 9-10=-294/151  
 WEBS 3-15=-52/296, 4-15=-193/747, 4-14=-876/285, 7-10=-259/335, 2-16=0/495,  
 11-13=-400/393, 5-13=-1300/197, 7-11=-577/515, 5-14=-164/872

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-6 to 3-3-6, Interior(1) 3-3-6 to 7-6-15, Exterior(2) 7-6-15 to 13-9-10, Interior(1) 13-9-10 to 22-6-15, Exterior(2) 22-6-15 to 28-9-10, Interior(1) 28-9-10 to 35-11-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 4x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 17, 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	Holland Residence
J0222-1061	A1	PIGGYBACK BASE	5	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

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**NOTES-**

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=131, 13=241, 9=291.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

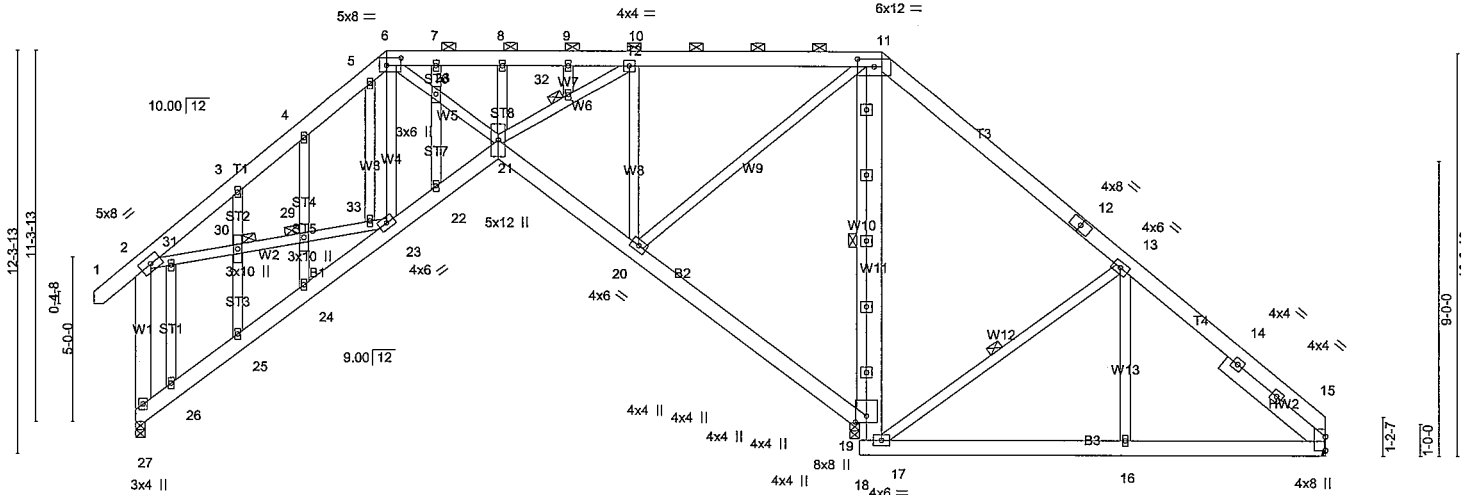
Job J0222-1061	Truss A1SG	Truss Type GABLE	Qty 1	Ply 1	Holland Residence
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Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Mar 1 16:07:08 2022 Page 1  
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-1-3-0	7-6-15	15-0-15	22-6-15	29-11-0	35-7-8	35-11-0
1-3-0	7-6-15	7-6-0	7-6-0	7-4-1	5-8-8	0-3-8

Scale = 1:66.9



7-6-15	10-11-8	15-0-15	21-11-0	29-11-0	35-11-0
7-6-15	3-4-9	4-1-7	6-10-1	8-0-0	6-0-0

Plate Offsets (X,Y)-- [6:0-5-4,0-2-12], [11:0-6-0,0-2-13], [19:0-2-4,0-4-0]

LOADING (psf)	SPACING-	CSI	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.24	Vert(LL) -0.03	24	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.18	Vert(CT) -0.07	19-20	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.48	Horz(CT) 0.09	19	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.05	24-25	>999	240		
							Weight: 372 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 W1,W11: 2x6 SP No.1  
 OTHERS 2x4 SP No.2  
 SLIDER Right 2x6 SP No.1 -x 3-10-14

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-11.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS 1 Row at midpt 11-17, 13-17  
 JOINTS 1 Brace at Jt(s): 29, 30, 32

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 27=709/0-3-8 (min. 0-1-8), 19=2116/0-3-8 (min. 0-1-14), 15=120/Mechanical  
 Max Horz 27=-368(LC 13)  
 Max Uplift 27=-269(LC 13), 19=-522(LC 9), 15=-428(LC 13)  
 Max Grav 27=718(LC 23), 19=2116(LC 1), 15=336(LC 20)

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

TOP CHORD 2-3=-803/174, 3-4=-728/229, 4-5=-696/280, 5-6=-525/269, 6-7=-767/357,  
 7-8=-764/357, 8-9=-763/357, 9-10=-763/357, 10-11=-379/371, 11-12=-245/912,  
 12-13=-278/699, 13-14=-303/611, 14-15=-365/571, 2-27=-657/215  
 BOT CHORD 26-27=-389/467, 25-26=-379/463, 24-25=-372/448, 23-24=-363/455, 22-23=-350/818,  
 21-22=-367/867, 20-21=-148/262, 19-20=-662/245, 17-34=-317/209, 16-34=-317/209,  
 15-16=-317/209  
 WEBS 6-28=-132/330, 21-28=-135/337, 21-32=-382/924, 10-32=-371/903, 10-20=-857/483,  
 13-16=-256/335, 2-31=-54/493, 30-31=-53/494, 29-30=-55/502, 29-33=-55/502,  
 23-33=-54/495, 17-19=-426/394, 11-19=-1318/426, 13-17=-577/559, 11-20=-331/850

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Holland Residence
J0222-1061	A1SG	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

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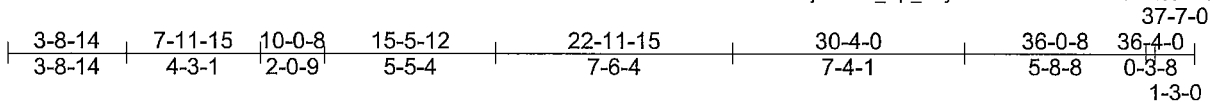
**NOTES-**

- 8) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Bearing at joint(s) 27, 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 27=269, 19=522, 15=428.
- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job J0222-1061	Truss A2	Truss Type PIGGYBACK BASE	Qty 7	Ply 1	Holland Residence
Comtech, Inc., Fayetteville, NC 28309, David Landry					Job Reference (optional)

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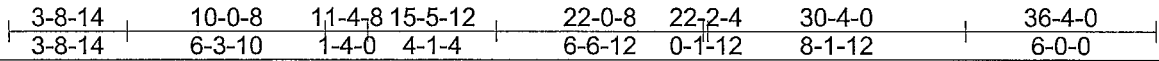
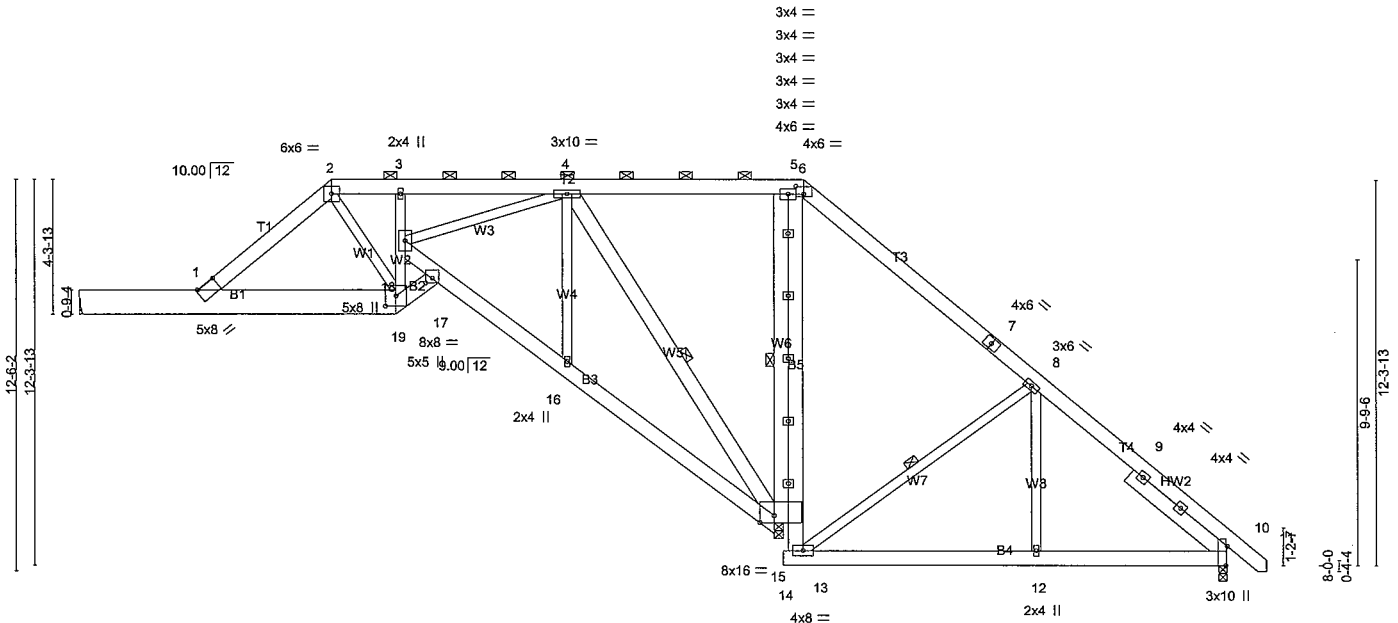


Plate Offsets (X,Y)- [1:0-7-5,0-0-4], [6:0-3-0,0-3-0], [10:0-7-4,Edge], [15:0-5-8,Edge], [17:0-1-12,0-2-8], [19:0-4-0,0-3-14]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15		TC 0.41	Vert(LL) -0.09	1-19	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.53	Vert(CT) -0.17	1-19	>999	240		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.34	Horz(CT) 0.04	15	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL) 0.09	1-19	>999	240	Weight: 340 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x6 SP No.1 *Except* B1: 2x10 SP No.1	2-0-0 oc purlins (6-0-0 max.): 2-6.
WEBS 2x4 SP No.2 *Except* W6,W5: 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 1 Row at midpt 5-15 6-0-0 oc bracing: 13-15
SLIDER Right 2x6 SP No.1 -x 3-10-14	WEBS 1 Row at midpt 8-13, 4-15

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 10=-299/0-3-0 (min. 0-1-8), 20=521/Mechanical, 15=2978/0-3-8 (min. 0-1-8)  
 Max Horz 20=-317(LC 13)  
 Max Uplift 10=-616(LC 23), 20=-86(LC 13), 15=-277(LC 9)  
 Max Grav 10=154(LC 11), 20=524(LC 23), 15=2978(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-324/309, 2-3=-318/345, 3-21=-295/338, 4-21=-295/338, 4-22=-151/1138,  
 5-22=-151/1138, 5-6=-143/1056, 6-23=-183/1463, 7-23=-192/1312, 7-8=-214/1304,  
 8-24=-163/1069, 9-24=-182/1027, 9-10=-201/1028  
 BOT CHORD 17-18=-815/167, 16-17=-846/251, 15-16=-880/311, 13-15=-348/224, 5-15=-1298/162,  
 13-25=-743/136, 12-25=-743/136, 10-12=-743/136, 1-20=-328/317  
 WEBS 18-19=-42/569, 4-18=-99/682, 8-13=-637/505, 8-12=-253/351, 4-15=-855/128

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 3-8-14 to 12-4-12, Interior(1) 12-4-12 to 22-11-15, Exterior(2) 22-11-15 to 27-4-12, Interior(1) 27-4-12 to 37-5-4 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 6) Refer to girder(s) for truss to truss connections.
  - 7) Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Continued on page 2

Job J0222-1061	Truss A2	Truss Type PIGGYBACK BASE	Qty 7	Ply 1	Holland Residence Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, David Landry

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**NOTES-**

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20 except (jt=lb) 10=616, 15=277.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 245 lb down and 136 lb up at 1-9-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-6=-60, 6-11=-60, 17-19=-20, 15-17=-20, 13-14=-20, 10-13=-20, 1-20=-80, 1-19=-20

Concentrated Loads (lb)

Vert: 1=-229

Job J0222-1061	Truss A3	Truss Type PIGGYBACK BASE	Qty 5	Ply 1	Holland Residence
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Comtech, Inc., Fayetteville, NC 28309, David Landry

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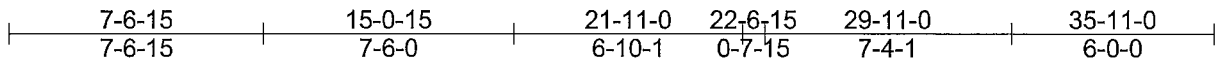
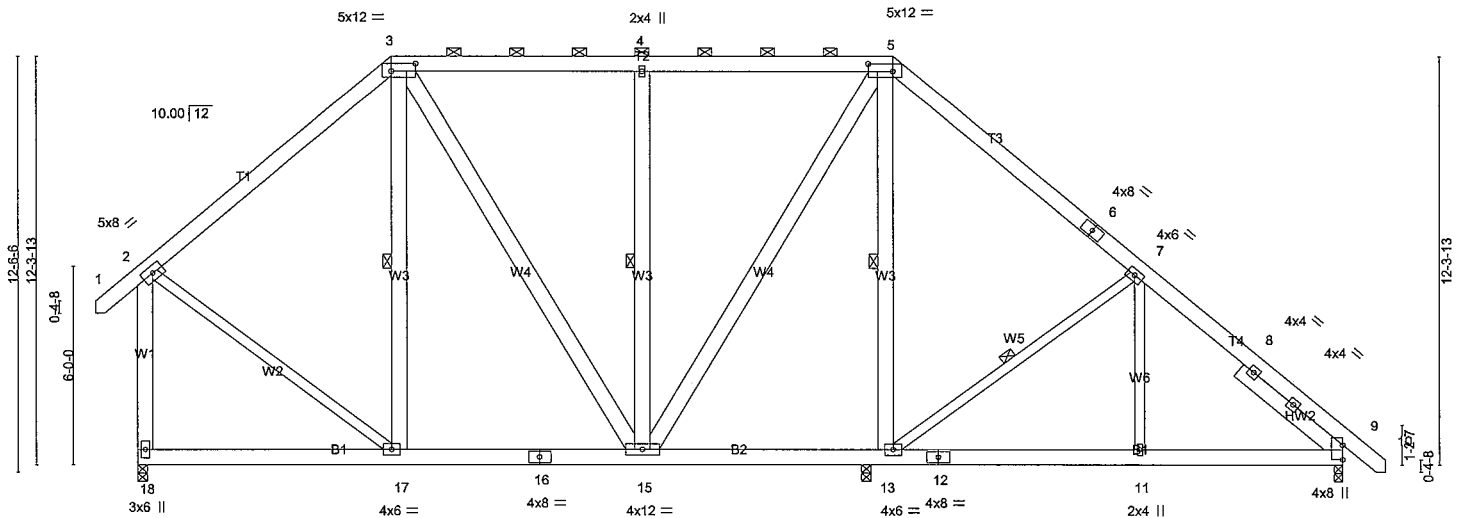
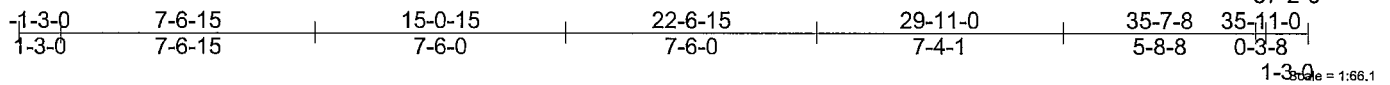


Plate Offsets (X,Y) - [3:0-8-12,0-2-12], [5:0-8-12,0-2-12]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.26	Vert(LL)	-0.04	15-17	>999	MT20	244/190
BCDL 10.0	Plate Grip DOL 1.15	BC 0.37	Vert(CT)	-0.07	11-13	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.33	Horz(CT)	0.01	9	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.06	11-13	>999		
	Code IRC2015/TPI2014						Weight: 389 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x6 SP No.1 \*Except\*  
 W5,W6,W2: 2x4 SP No.2  
 SLIDER Right 2x6 SP No.1 -x 3-10-14

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); 3-5.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 3-17, 4-15, 5-13, 7-13

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.**

(lb/size) 18=1089/0-3-8 (min. 0-1-8), 9=855/0-3-0 (min. 0-1-8), 14=1058/0-3-8 (min. 0-1-8)  
 Max Horz 18=-371(LC 10)  
 Max Uplift 18=-45(LC 12), 9=-173(LC 8), 14=-92(LC 8)  
 Max Grav 18=1186(LC 2), 9=855(LC 1), 14=1269(LC 2)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-19=-788/328, 19-20=-690/346, 3-20=-667/379, 3-21=-597/439, 4-21=-596/439, 4-22=-596/439, 5-22=-597/439, 5-6=-404/433, 6-7=-511/382, 7-23=-757/655, 8-23=-856/632, 8-9=-951/616, 2-18=-1041/415  
 BOT CHORD 18-24=-261/322, 17-24=-261/322, 16-17=-159/607, 16-25=-159/607, 15-25=-159/607, 15-26=-103/319, 14-26=-103/319, 13-14=-103/319, 12-13=-328/634, 12-27=-328/634, 11-27=-328/634, 9-11=-328/633  
 WEBS 4-15=-503/237, 5-15=-98/635, 5-13=-648/27, 7-13=-564/513, 7-11=-262/322, 2-17=-89/597

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-6 to 3-3-6, Interior(1) 3-3-6 to 7-6-15, Exterior(2) 7-6-15 to 13-9-10, Interior(1) 13-9-10 to 22-6-15, Exterior(2) 22-6-15 to 28-9-10, Interior(1) 28-9-10 to 37-0-6 zone; end vertical left exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 14 except (j=lb) 9=173.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Holland Residence
J0222-1061	A3	PIGGYBACK BASE	5	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

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**NOTES-**

- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job J0222-1061	Truss A3A	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Holland Residence
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Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Mar 1 16:07:11 2022 Page 1  
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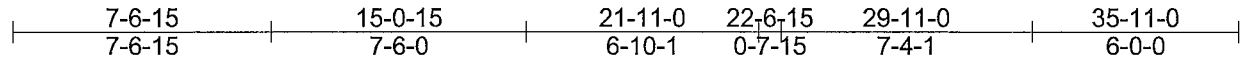
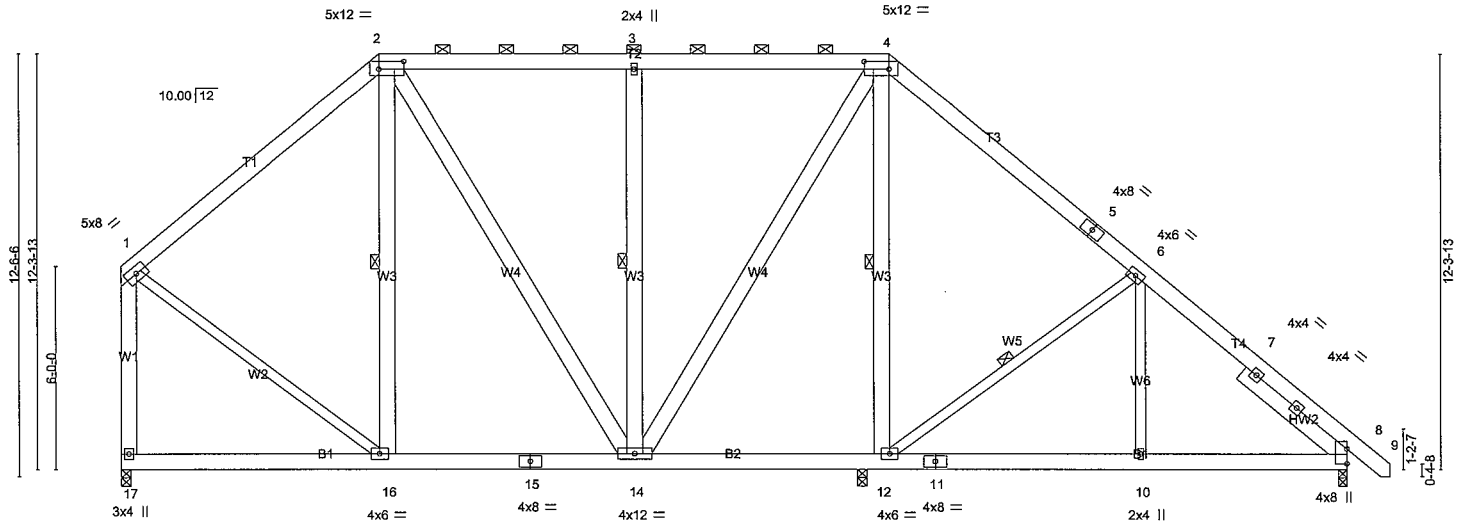
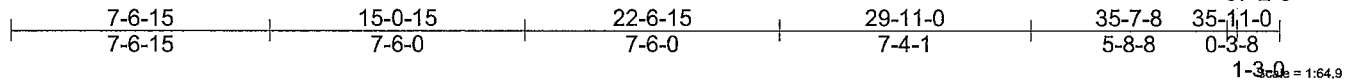


Plate Offsets (X,Y) - [2:0-8-12,0-2-12], [4:0-8-12,0-2-12]

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.25	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.37	Vert(LL) -0.04 14-16 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.34	Vert(CT) -0.07 10-12 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 8 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.06 10-12 >999 240	Weight: 386 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x6 SP No.1 \*Except  
 W5,W6,W2: 2x4 SP No.2  
 SLIDER Right 2x6 SP No.1 -x 3-10-14

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-4.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 2-16, 3-14, 4-12, 6-12

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 17=1007/0-3-8 (min. 0-1-8), 8=857/0-3-0 (min. 0-1-8), 13=1057/0-3-8 (min. 0-1-8)

Max Horz 17=-362(LC 8)  
 Max Uplift 17=-30(LC 12), 8=-172(LC 8), 13=-91(LC 8)  
 Max Grav 17=1118(LC 2), 8=857(LC 1), 13=1268(LC 2)

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

**TOP CHORD** 1-18=-787/312, 18-19=-672/332, 2-19=-645/360, 2-20=-591/431, 3-20=-590/431, 3-21=-590/431, 4-21=-591/431, 4-5=-400/427, 5-6=-514/376, 6-22=-760/649, 7-22=-859/626, 7-8=-954/610, 1-17=-973/357  
**BOT CHORD** 17-23=-244/331, 16-23=-244/331, 15-16=-153/614, 15-24=-153/614, 14-24=-153/614, 14-25=-101/322, 13-25=-101/322, 12-13=-101/322, 11-12=-324/636, 11-26=-324/636, 10-26=-324/636, 8-10=-324/636  
**WEBS** 3-14=-502/234, 4-14=-95/636, 4-12=-647/26, 6-12=-564/513, 6-10=-262/322, 1-16=-133/607

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf, BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 7-6-15, Exterior(2) 7-6-15 to 13-9-10, Interior(1) 13-9-10 to 22-6-15, Exterior(2) 22-6-15 to 28-9-10, Interior(1) 28-9-10 to 37-0-6 zone; end vertical left exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 13 except (j=lb) 8=172.



Job J0222-1061	Truss A3A	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Holland Residence Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, David Landry

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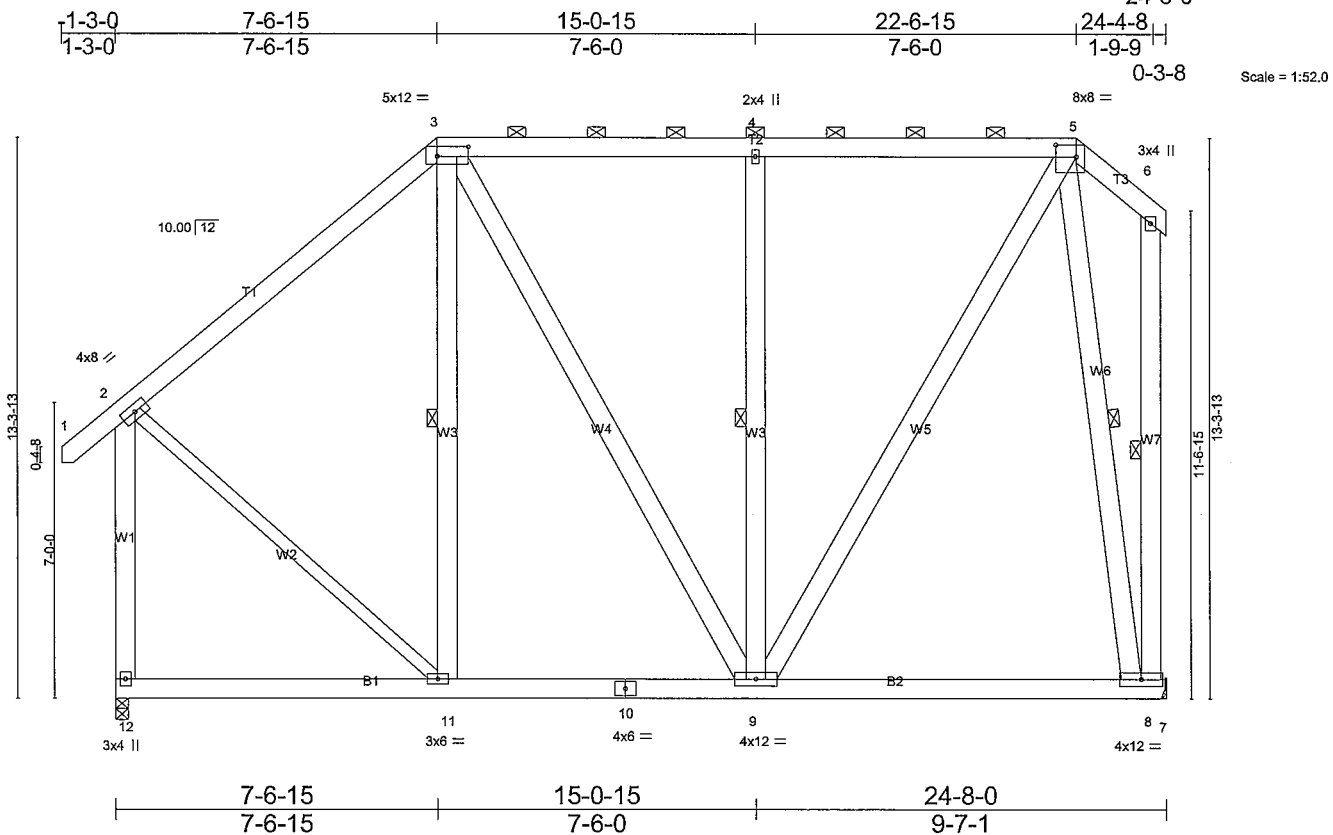
**NOTES-**

- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job J0222-1061	Truss A4SG	Truss Type PIGGYBACK BASE STRUC COMMON	Qty 1	Ply 1	Holland Residence
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Comtech, Inc., Fayetteville, NC 28309, David Landry Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Mar 1 16:07:11 2022 Page 1  
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LOADING (psf)		SPACING-		CSL		DEFL				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.12	8-9	>999	360	MT20	244/190	
BCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.17	8-9	>999	240	Weight: 336 lb FT = 20%		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.00	8	n/a	n/a			
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.01	9	>999	240			

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x6 SP No.1 \*Except\*  
 W2: 2x4 SP No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 3-11, 4-9, 6-8, 5-8

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 12=1046/0-3-8 (min. 0-1-8), 8=968/Mechanical  
 Max Horz 12=199(LC 12)  
 Max Uplift 8=-95(LC 9)  
 Max Grav 12=1215(LC 2), 8=1161(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-13=-737/175, 13-14=-639/193, 3-14=-616/226, 3-15=-544/229, 4-15=-542/230,  
 4-16=-543/230, 5-16=-543/230, 2-12=-1040/253  
 BOT CHORD 12-17=-270/243, 11-17=-270/243, 10-11=-199/485, 10-18=-199/485, 9-18=-199/485  
 WEBS 4-9=-519/254, 5-9=-239/806, 2-11=-2/618, 5-8=-907/366

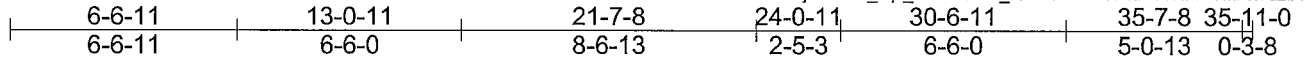
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-6 to 3-3-6, Interior(1) 3-3-6 to 7-6-15, Exterior(2) 7-6-15 to 13-9-10, Interior(1) 13-9-10 to 22-6-15, Exterior(2) 22-6-15 to 24-3-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job J0222-1061	Truss B1	Truss Type PIGGYBACK BASE	Qty 2	Ply 1	Holland Residence
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Comtech, Inc., Fayetteville, NC 28309, David Landry

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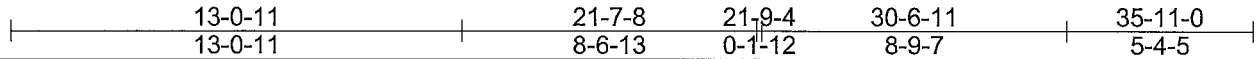
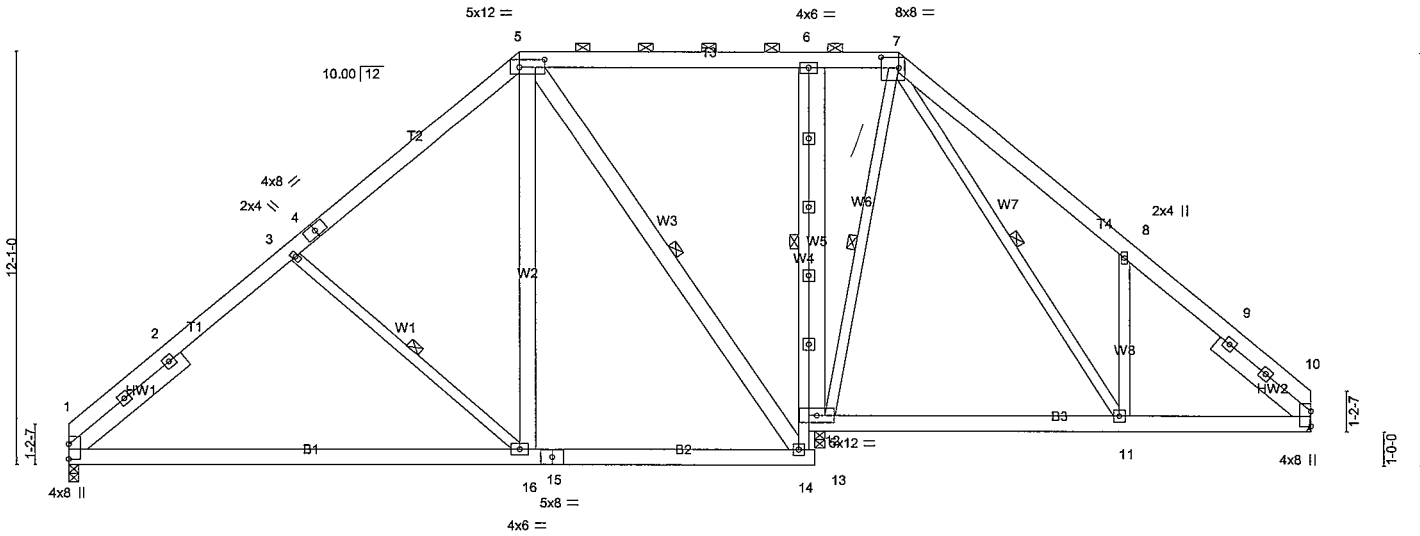


Plate Offsets (X,Y) - [5:0-8-12,0-2-12], [7:0-6-0,0-3-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	-0.28	1-16	>905	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.64	Vert(CT)	-0.46	1-16	>552	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.49	Horz(CT)	0.01	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.10	11-12	>999	240		
									Weight: 357 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 W2,W3,W5: 2x6 SP No.1  
 SLIDER Left 2x6 SP No.1 -x 4-3-8, Right 2x6 SP No.1 -x 3-5-13

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except  
 2-0-0 oc purlins (10-0-0 max.): 5-7.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 3-16, 5-14, 6-14, 7-12, 7-11

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 10=531/Mechanical, 1=816/0-3-8 (min. 0-1-8), 12=1532/0-3-8 (min. 0-2-1)

Max Horz 1=277(LC 9)  
 Max Uplift 10=-202(LC 8), 1=-71(LC 12), 12=-206(LC 9)  
 Max Grav 10=540(LC 24), 1=934(LC 19), 12=1763(LC 2)

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

TOP CHORD 1-2=-978/331, 2-17=-867/339, 3-17=-795/364, 3-4=-734/324, 4-5=-667/370,  
 5-18=-301/342, 18-19=-301/343, 6-19=-301/343, 6-7=-296/337, 7-8=-897/876,  
 8-20=-580/618, 9-20=-614/604, 9-10=-705/584  
 BOT CHORD 1-21=-170/822, 21-22=-170/822, 16-22=-170/822, 15-16=-52/545, 15-23=-52/545,  
 14-23=-52/545, 10-11=-340/445  
 WEBS 3-16=-454/297, 5-16=-40/835, 5-14=-982/89, 8-11=-505/335, 12-14=-42/882,  
 6-12=-482/220, 7-12=-404/196, 7-11=-733/732

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 13-0-11, Exterior(2) 13-0-11 to 19-3-6, Interior(1) 19-3-6 to 24-0-11, Exterior(2) 24-0-11 to 30-6-12, Interior(1) 30-6-12 to 35-11-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 4x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.

Continued on page 2

Job J0222-1061	Truss B1	Truss Type PIGGYBACK BASE	Qty 2	Ply 1	Holland Residence Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Mar 1 16:07:12 2022 Page 2  
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**NOTES-**

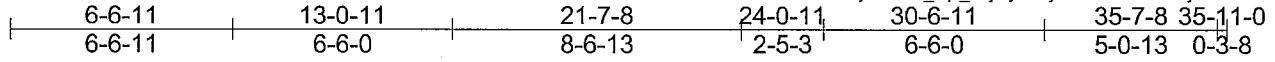
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 10=202, 12=206.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job J0222-1061	Truss B1SG	Truss Type GABLE	Qty 1	Ply 1	Holland Residence
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Comtech, Inc., Fayetteville, NC 28309, David Landry

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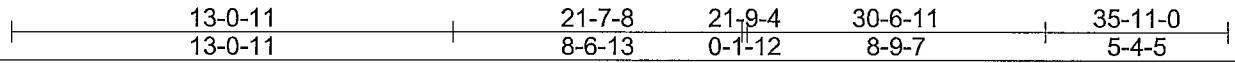
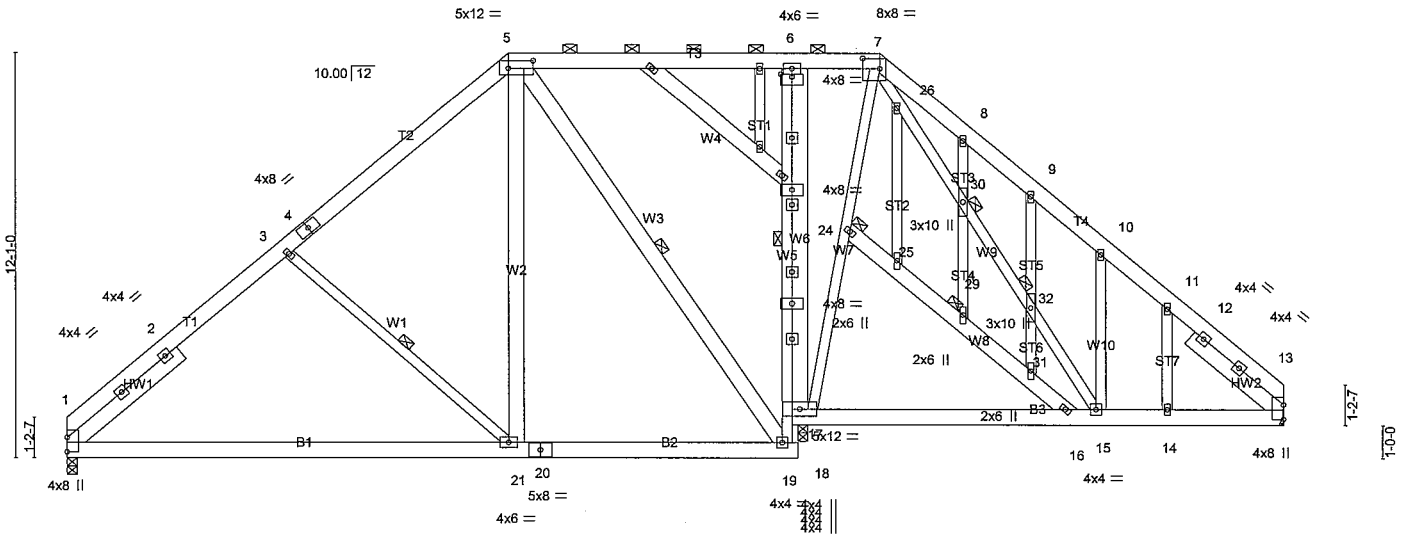


Plate Offsets (X,Y) - [5:0-8-12,0-2-12], [7:0-6-0,0-3-12], [22:0-4-0,0-1-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.29	Vert(LL)	-0.28	1-21	>905	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.64	Vert(CT)	-0.46	1-21	>553		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.48	Horz(CT)	0.01	13	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.10	16-17	>999		
								Weight: 421 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x6 SP No.1 \*Except\*  
 W1,W10,W5,W7,W9: 2x4 SP No.2  
 OTHERS 2x4 SP No.2  
 SLIDER Left 2x6 SP No.1 -x 4-3-8, Right 2x6 SP No.1 -x 3-5-13

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except  
 2-0-0 oc purlins (10-0-0 max.): 5-7.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 3-21, 5-19, 6-19  
 JOINTS 1 Brace at Jt(s): 24, 29, 30, 32

**REACTIONS.** (lb/size) 13=537/Mechanical, 1=820/0-3-8 (min. 0-1-8), 17=1522/0-3-8 (min. 0-1-5)  
 Max Horz 1=344(LC 9)  
 Max Uplift 13=-276(LC 13), 1=-191(LC 12), 17=-379(LC 9)  
 Max Grav 13=546(LC 24), 1=925(LC 25), 17=1656(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-966/389, 2-3=-864/423, 3-4=-726/374, 4-5=-672/421, 5-6=-309/419,  
 6-7=-304/412, 7-8=-895/996, 8-9=-830/881, 9-10=-807/849, 10-11=-633/692,  
 11-12=-591/626, 12-13=-621/603  
 BOT CHORD 1-33=-315/851, 33-34=-315/851, 21-34=-315/851, 20-21=-106/558, 20-35=-106/558,  
 19-35=-106/558, 14-15=-347/393, 13-14=-347/393  
 WEBS 3-21=-454/380, 5-21=-96/850, 5-19=-975/178, 10-15=-308/272, 17-19=-114/876,  
 6-17=-498/295, 17-24=-351/165, 7-24=-425/246, 7-26=-912/872, 26-30=-738/699,  
 30-32=-723/680, 15-32=-716/678

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

Job J0222-1061	Truss B1SG	Truss Type GABLE	Qty 1	Ply 1	Holland Residence Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Mar 1 16:07:13 2022 Page 2  
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**NOTES-**

- 8) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=276, 1=191, 17=379.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job J0222-1061	Truss C1	Truss Type PIGGYBACK BASE	Qty 3	Ply 1	Holland Residence
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Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Mar 1 16:07:15 2022 Page 1  
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32-10-0

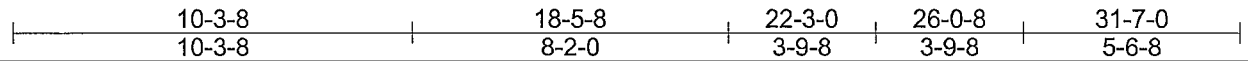
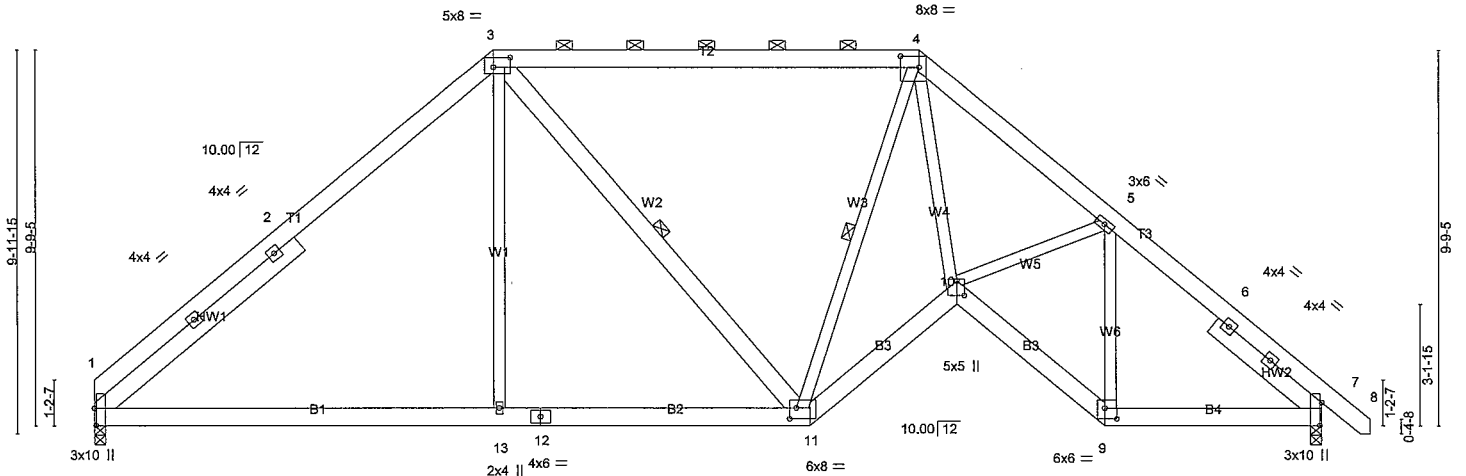
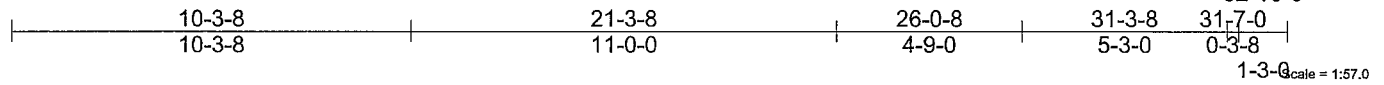


Plate Offsets (X,Y) - [1:0-5-8,Edge], [3:0-5-4,0-3-0], [4:0-5-12,0-3-8], [7:0-7-4,Edge], [9:0-3-12,0-3-8], [10:0-4-8,0-2-4], [11:0-2-0,0-3-8]

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.69	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.34	Vert(LL) -0.08 11-13 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.44	Vert(CT) -0.16 1-13 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.11 7 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.04 1-13 >999 240		
				Weight: 275 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 W2: 2x6 SP No.1  
 SLIDER Left 2x6 SP No.1 -x 6-9-8, Right 2x6 SP No.1 -x 3-6-2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-3-6 oc purlins, except  
 2-0-0 oc purlins (5-7-1 max.): 3-4.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 3-11, 4-11

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=1262/0-3-8 (min. 0-1-8), 7=1332/0-3-8 (min. 0-1-9)  
 Max Horz 1=-227(LC 10)  
 Max Uplift 1=-33(LC 12), 7=-49(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-14=-1496/330, 14-15=-1385/332, 2-15=-1373/333, 2-3=-1325/380, 3-16=-1009/413,  
 16-17=-1009/413, 4-17=-1009/413, 4-5=-2056/504, 5-18=-1427/391, 18-19=-1486/375,  
 6-19=-1517/373, 6-7=-1622/362  
 BOT CHORD 1-13=-86/1053, 12-13=-84/1059, 12-20=-84/1060, 10-11=-89/1709,  
 9-10=-216/1371, 7-9=-162/1088  
 WEBS 3-13=0/424, 4-11=-1015/105, 4-10=-170/1747, 5-10=-77/588, 5-9=-733/176

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 10-3-8, Exterior(2) 10-3-8 to 16-6-3, Interior(1) 16-6-3 to 21-3-8, Exterior(2) 21-3-8 to 27-6-3, Interior(1) 27-6-3 to 32-8-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

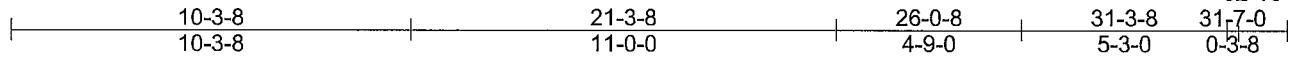
**LOAD CASE(S)** Standard

Job J0222-1061	Truss C1SG	Truss Type GABLE	Qty 1	Ply 1	Holland Residence
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Mar 1 16:07:16 2022 Page 1  
ID:twd?SCwoJ8kxcOCjwNeOR\_zqs\_r-UlJRp2S2e0snUqYJa6pB8xAWuouUb4XQCxR01zFbv

32-10-0



1-3-0 scale = 1:57.0

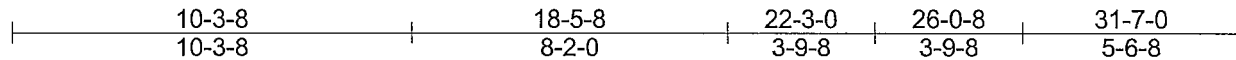
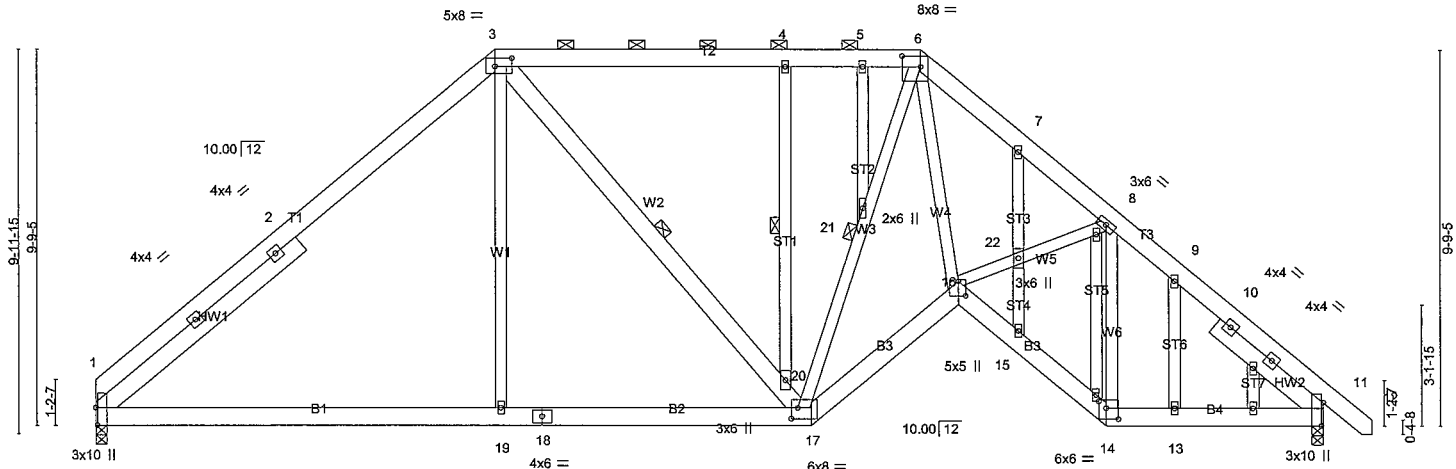


Plate Offsets (X,Y)-- [1:0-5-8,Edge], [3:0-5-4,0-2-12], [6:0-5-12,0-3-8], [11:0-7-4,Edge], [14:0-3-12,0-3-8], [16:0-4-8,0-2-4], [17:0-2-0,0-3-8], [23:0-2-0,0-0-12]

LOADING (psf)	SPACING-	2-0-0	CSI	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.57	Vert(LL)	-0.08 17-19	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.34	Vert(CT)	-0.16 1-19	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.44	Horz(CT)	0.11 11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.06 1-19	>999	240		
								Weight: 313 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 W2: 2x6 SP No.1  
 OTHERS 2x4 SP No.2  
 SLIDER Left 2x6 SP No.1 -x 6-9-8, Right 2x6 SP No.1 -x 3-6-2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-4-0 oc purlins, except  
 2-0-0 oc purlins (6-0-0 max.): 3-6.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 3-17, 4-20  
 JOINTS 1 Brace at Jt(s): 21

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=1262/0-3-8 (min. 0-1-8), 11=1332/0-3-8 (min. 0-1-9)  
 Max Horz 1=-283(LC 10)  
 Max Uplift 1=-187(LC 12), 11=-220(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-1490/386, 2-3=-1313/430, 3-4=-1061/494, 4-5=-1061/495, 5-6=-1060/495,  
 6-7=-1992/618, 7-8=-2063/538, 8-9=-1475/498, 9-10=-1540/430, 10-11=-1650/412  
 BOT CHORD 1-19=-214/1025, 18-19=-212/1031, 18-27=-212/1031, 17-27=-212/1031,  
 16-17=-195/1668, 15-16=-256/1413, 14-15=-230/1367, 13-14=-190/1107,  
 11-13=-189/1107  
 WEBS 3-19=0/425, 17-21=-811/0, 6-21=-652/0, 6-16=-259/1778, 16-22=-159/587,  
 8-22=-147/565, 8-14=-738/105, 4-20=-305/241

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	Holland Residence
J0222-1061	C1SG	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Mar 1 16:07:16 2022 Page 2  
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**NOTES-**

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=187, 11=220.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job J0222-1061	Truss C2	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Holland Residence
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Comtech, Inc., Fayetteville, NC 28309, David Landry Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Mar 1 16:07:17 2022 Page 1  
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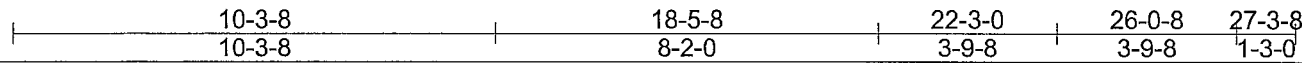
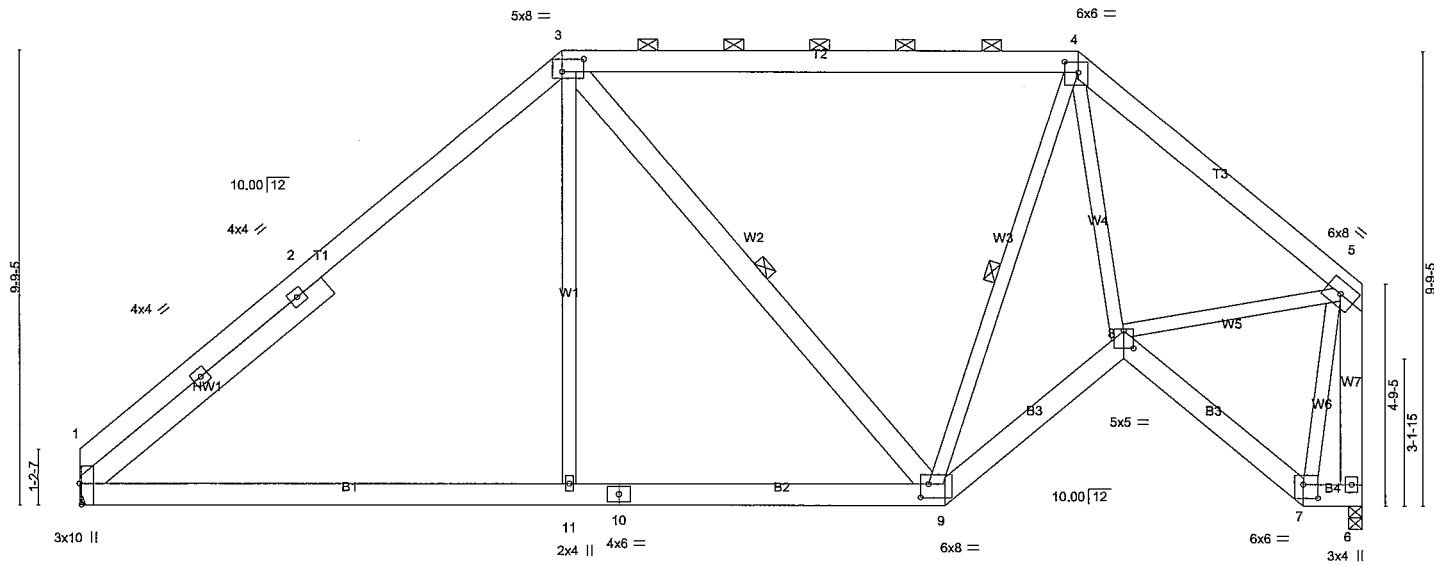


Plate Offsets (X,Y)- [1:0-5-8,Edge], [3:0-5-8,0-3-4], [4:0-3-8,0-2-12], [7:0-3-12,0-3-8], [8:0-2-8,0-4-8], [9:0-2-0,0-3-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.65	Vert(LL)	-0.07	1-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.33	Vert(CT)	-0.15	1-11	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.21	Horz(CT)	0.05	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.04	1-11	>999		
								Weight: 249 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 W2,W7: 2x6 SP No.1  
 SLIDER Left 2x6 SP No.1 -x 6-9-8

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-11-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS 1 Row at midpt 3-9, 4-9

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=1082/Mechanical, 6=1088/0-3-8 (min. 0-1-8)  
 Max Horz 1=218(LC 9)  
 Max Uplift1=-28(LC 12), 6=-10(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-12=-1240/251, 12-13=-1133/253, 2-13=-1122/254, 2-3=-1081/300, 3-14=-663/315,  
 14-15=-663/315, 4-15=-663/315, 4-16=-958/342, 5-16=-1162/316, 5-6=-1050/266  
 BOT CHORD 1-11=-177/850, 10-11=-175/856, 10-17=-175/856, 9-17=-175/856, 8-9=-200/997  
 WEBS 3-11=0/429, 3-9=-330/103, 4-9=-399/114, 4-8=-39/498, 5-8=-150/846

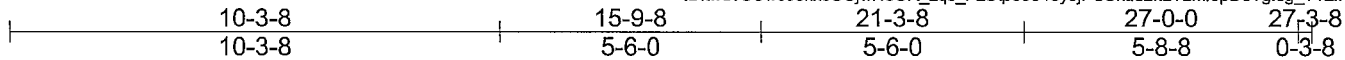
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 10-3-8, Exterior(2) 10-3-8 to 16-6-3, Interior(1) 16-6-3 to 21-3-8, Exterior(2) 21-3-8 to 27-1-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job J0222-1061	Truss C3	Truss Type PIGGYBACK BASE	Qty 5	Ply 1	Holland Residence
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Comtech, Inc., Fayetteville, NC 28309, David Landry

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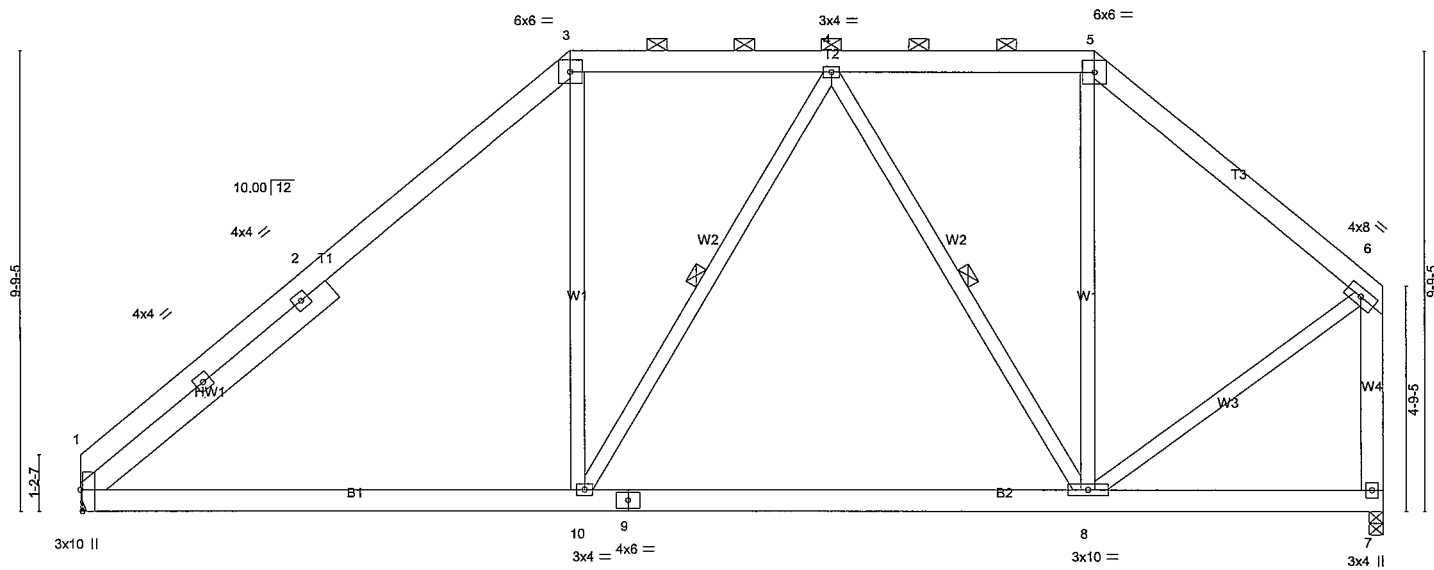


Plate Offsets (X,Y)-- [1:0-5-8,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.56	Vert(LL)	-0.20	8-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.49	Vert(CT)	-0.26	8-10	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.24	Horz(CT)	0.02	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.04	1-10	>999	240		
									Weight: 233 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 W4: 2x6 SP No.1  
 SLIDER Left 2x6 SP No.1 -x 6-9-8

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-11-10 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS 1 Row at midpt 4-10, 4-8

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=1082/Mechanical, 7=1082/0-3-8 (min. 0-1-8)

Max Horz 1=218(LC 9)  
 Max Uplift 1=-27(LC 12), 7=-9(LC 13)  
 Max Grav 1=1082(LC 1), 7=1104(LC 2)

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

TOP CHORD 1-11=-1264/244, 11-12=-1157/247, 2-12=-1146/248, 2-3=-1093/293, 3-13=-843/378, 4-13=-842/378, 4-14=-619/294, 5-14=-621/294, 5-15=-753/273, 6-15=-894/250, 6-7=-1111/302  
 BOT CHORD 1-10=-173/864, 9-10=-166/805, 9-16=-166/805, 16-17=-166/805, 8-17=-166/805  
 WEBS 3-10=-10/409, 4-8=-454/157, 5-8=0/283, 6-8=-86/758

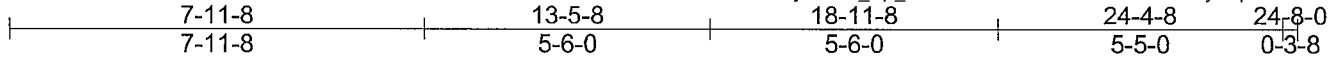
**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 10-3-8, Exterior(2) 10-3-8 to 16-6-3, Interior(1) 16-6-3 to 21-3-8, Exterior(2) 21-3-8 to 27-0-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BC DL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

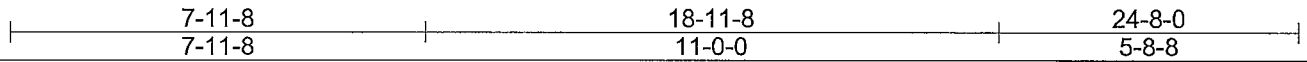
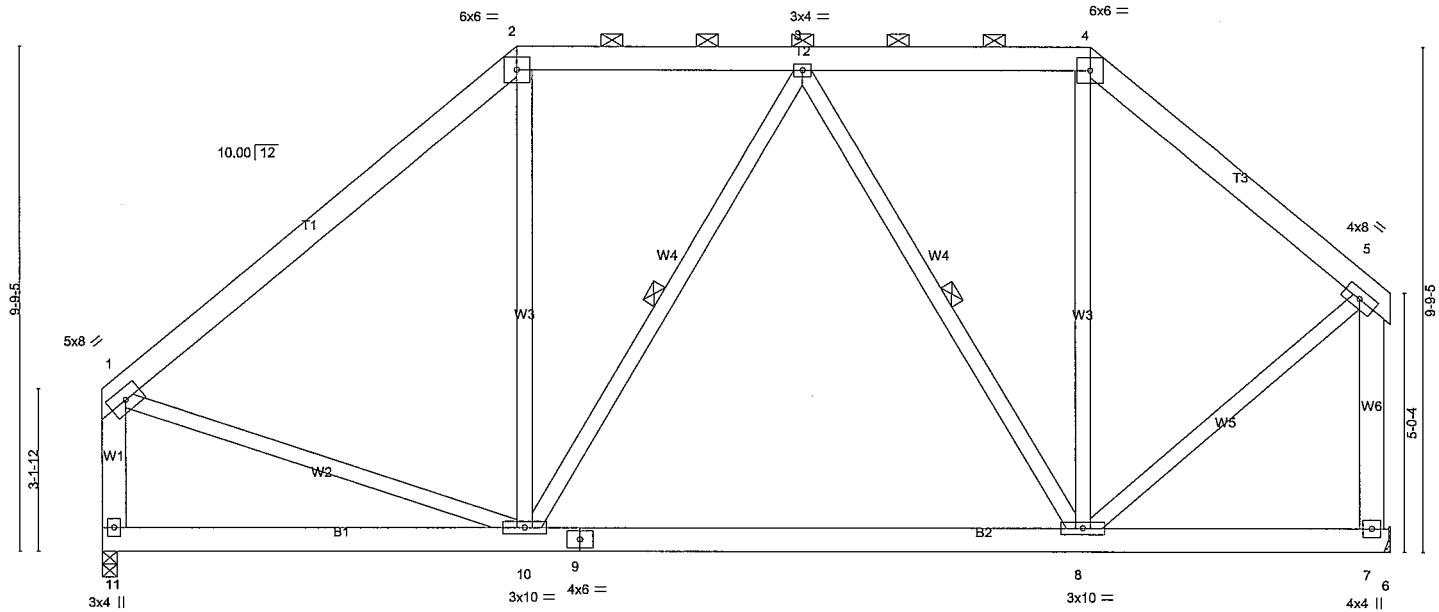
LOAD CASE(S) Standard

Job J0222-1061	Truss C4	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	Holland Residence
Comtech, Inc., Fayetteville, NC 28309, David Landry					Job Reference (optional)

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Scale = 1:42.4



<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.27	Vert(LL) -0.19 8-10 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.48	Vert(CT) -0.25 8-10 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.18	Horz(CT) 0.01 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.01 8-10 >999 240		
				Weight: 222 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 W1,W6: 2x6 SP No.1

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); 2-4.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 7-8.  
 WEBS 1 Row at midpt 3-10, 3-8

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 11=963/0-3-8 (min. 0-1-8), 7=970/Mechanical  
 Max Horz 11=153(LC 9)  
 Max Uplift 11=-11(LC 12), 7=-3(LC 13)  
 Max Grav 11=964(LC 2), 7=997(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-12=-952/209, 12-13=-827/226, 2-13=-810/257, 2-14=-638/310, 3-14=-636/310, 3-15=-522/265, 4-15=-524/265, 4-16=-620/240, 5-16=-761/219, 1-11=-933/258, 5-7=-1014/272  
 BOT CHORD 9-10=-138/658, 9-17=-138/658, 17-18=-138/658, 8-18=-138/658  
 WEBS 2-10=-2/263, 1-10=-19/627, 5-8=-74/685, 3-8=-347/141

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 7-11-8, Exterior(2) 7-11-8 to 14-2-3, Interior(1) 14-2-3 to 18-11-8, Exterior(2) 18-11-8 to 24-3-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 7.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job J0222-1061	Truss D1	Truss Type COMMON	Qty 4	Ply 1	Holland Residence
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Comtech, Inc., Fayetteville, NC 28309, David Landry

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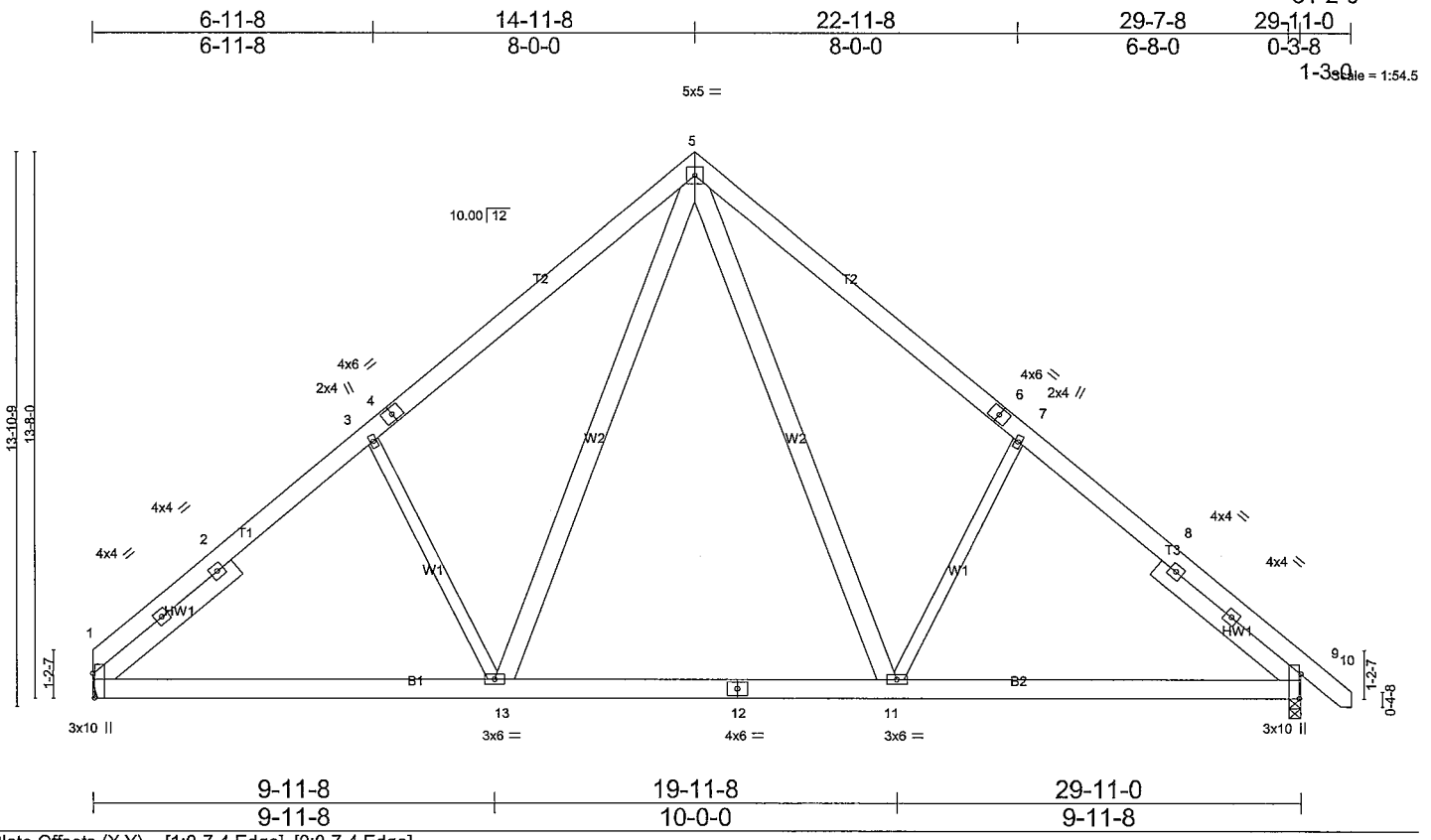


Plate Offsets (X,Y)-- [1:0-7-4,Edge], [9:0-7-4,Edge]					
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.29	Vert(LL) -0.10 11-13 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.46	Vert(CT) -0.15 1-13 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.41	Horz(CT) 0.03 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.02 13 >999 240		
				Weight: 271 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x6 SP No.1 \*Except\*  
W1: 2x4 SP No.2  
SLIDER Left 2x6 SP No.1 -x 4-6-9, Right 2x6 SP No.1 -x 4-6-9

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-9-8 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=1195/Mechanical, 9=1265/0-3-8 (min. 0-1-12)  
Max Horz 1=-319(LC 8)  
Max Uplift 1=-49(LC 12), 9=-65(LC 13)  
Max Grav 1=1415(LC 19), 9=1479(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-1748/308, 2-14=-1632/318, 3-14=-1596/345, 3-4=-1586/419, 4-15=-1567/448,  
5-15=-1450/482, 5-16=-1447/471, 6-16=-1564/437, 6-7=-1583/409, 7-8=-1631/338,  
8-9=-1746/300  
BOT CHORD 1-17=-117/1416, 17-18=-117/1416, 13-18=-117/1416, 13-19=0/945, 12-19=0/945,  
12-20=0/945, 11-20=0/945, 11-21=-98/1236, 21-22=-98/1236, 9-22=-98/1236  
WEBS 5-11=-186/861, 7-11=-481/335, 5-13=-189/866, 3-13=-479/337

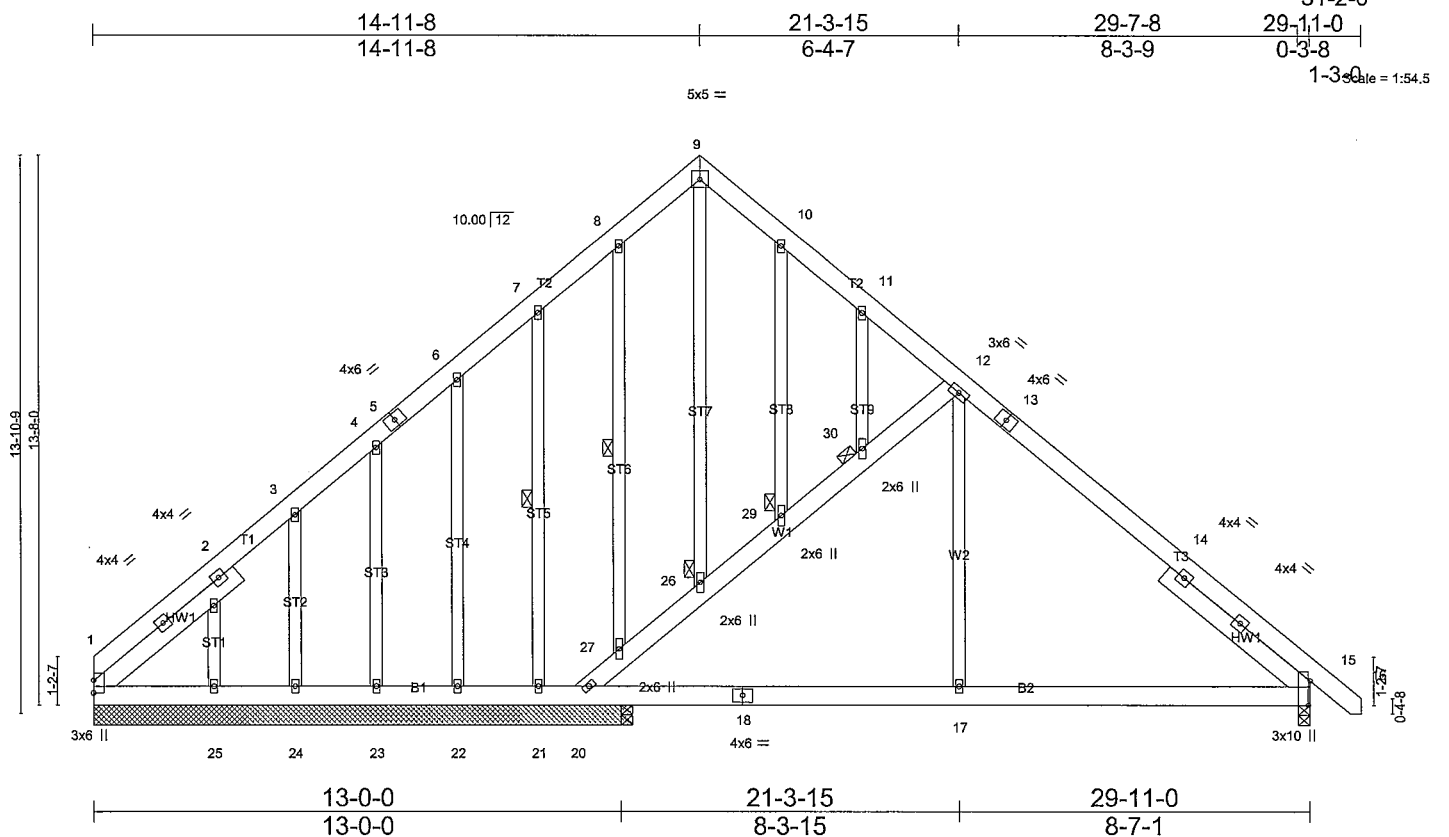
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 14-11-8, Exterior(2) 14-11-8 to 19-4-5, Interior(1) 19-4-5 to 31-0-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job J0222-1061	Truss D1SG	Truss Type GABLE	Qty 1	Ply 1	Holland Residence
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Mar 1 16:07:20 2022 Page 1  
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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.04 15-17 >999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.08 15-17 >999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01 15 n/a	n/a			
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.03 15-17 >999	240			
									Weight: 316 lb FT = 20%		

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x6 SP No.1 \*Except\*  
W2: 2x4 SP No.2  
OTHERS 2x4 SP No.2  
SLIDER Left 2x6 SP No.1 -x 4-6-9, Right 2x6 SP No.1 -x 4-6-9

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 8-27, 7-21  
JOINTS 1 Brace at Jt(s): 26, 29, 30

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 13-3-8 except (jt=length) 15=0-3-8, 19=0-3-8.  
(lb) - Max Horz 1=-399(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 21, 23, 25 except 15=-122(LC 13),  
20=-354(LC 13), 22=-122(LC 12), 24=-327(LC 12)  
Max Grav All reactions 250 lb or less at joint(s) 22, 23, 25 except 1=413(LC 21),  
15=1033(LC 20), 20=327(LC 20), 21=293(LC 19), 24=324(LC 19), 19=378(LC 18)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-544/212, 2-3=-487/239, 3-4=-347/92, 4-5=-317/78, 5-6=-286/90, 6-7=-293/91,  
7-8=-279/137, 8-9=-256/181, 9-10=-251/184, 10-11=-250/111, 11-12=-362/126,  
12-13=-817/114, 13-14=-921/77, 14-15=-1048/75  
BOT CHORD 1-25=-244/458, 24-25=-244/458, 23-24=-244/458, 22-23=-244/458, 21-22=-244/458,  
20-21=-244/458, 19-20=0/712, 18-19=0/712, 17-31=0/712, 17-32=0/712,  
15-32=0/712  
WEBS 20-27=-860/391, 26-27=-836/376, 26-29=-894/433, 29-30=-833/371, 12-30=-852/405,  
12-17=0/622, 3-24=-385/363

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=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
  - 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.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Job J0222-1061	Truss D1SG	Truss Type GABLE	Qty 1	Ply 1	Holland Residence Job Reference (optional)
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Cortech, Inc., Fayetteville, NC 28309, David Landry

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**NOTES-**

- 7) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 21, 23, 25 except (jt=lb) 15=122, 20=354, 22=122, 24=327.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

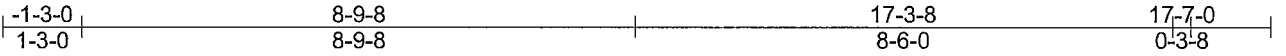
**LOAD CASE(S)** Standard

Job J0222-1061	Truss E1	Truss Type COMMON	Qty 3	Ply 1	Holland Residence
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Comtech, Inc., Fayetteville, NC 28309, David Landry

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18-10-0



1-3-0 Scale = 1:35.1

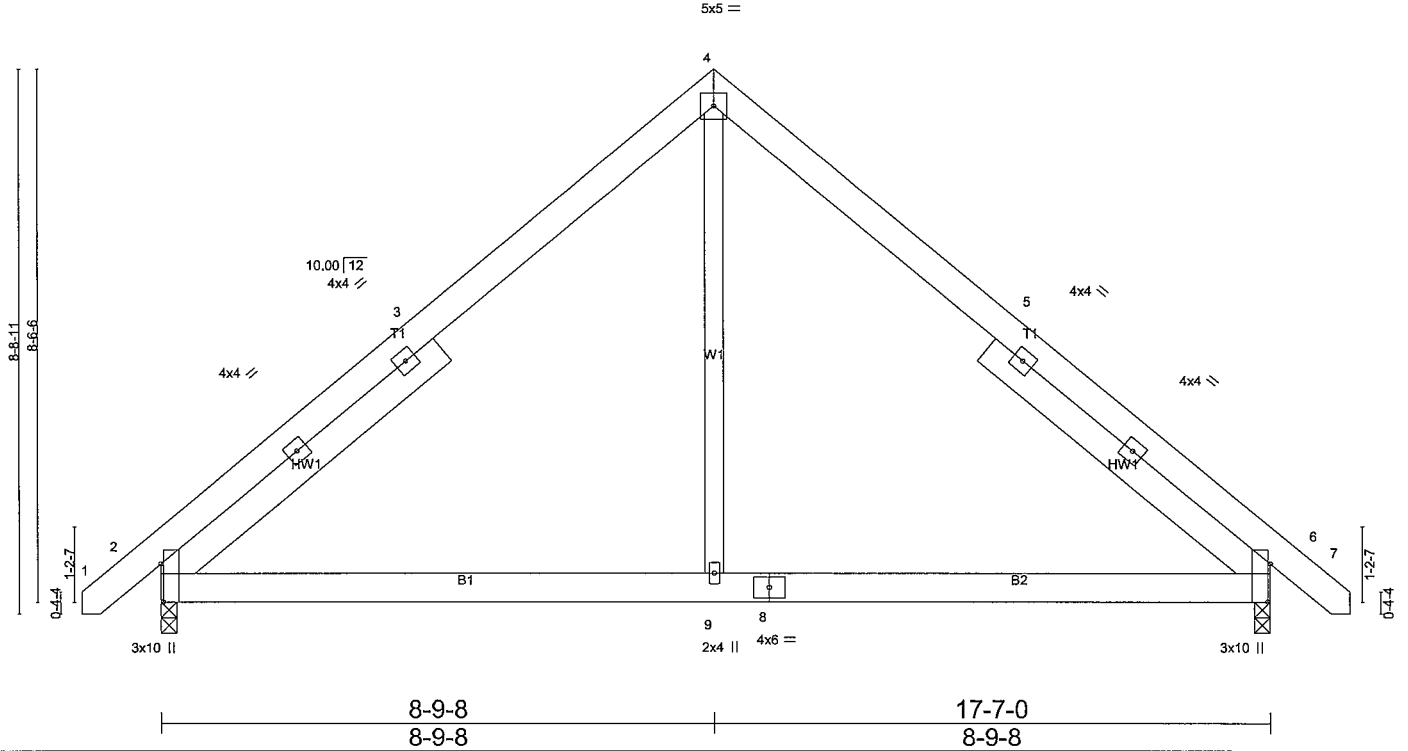


Plate Offsets (X,Y)- [2:0-7-4,Edge], [6:0-7-4,Edge]									
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/def	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.34	Vert(LL)	0.07 6-9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.26	Vert(CT)	-0.06 2-9	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.55	Horz(CT)	0.01 6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 141 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.2  
SLIDER Left 2x6 SP No.1 -x 5-8-11, Right 2x6 SP No.1 -x 5-8-11

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 6=770/0-3-0 (min. 0-1-8), 2=770/0-3-0 (min. 0-1-8)  
Max Horz 2=198(LC 11)  
Max Uplift 6=-94(LC 8), 2=-94(LC 9)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-10=-764/597, 3-10=-614/599, 3-4=-566/644, 4-5=-566/644, 5-11=-614/599,  
6-11=-764/597  
BOT CHORD 2-9=-277/435, 8-9=-277/435, 6-8=-277/435  
WEBS 4-9=-517/408

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-4 to 3-3-9, Interior(1) 3-3-9 to 8-9-8, Exterior(2) 8-9-8 to 13-2-5, Interior(1) 13-2-5 to 18-8-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

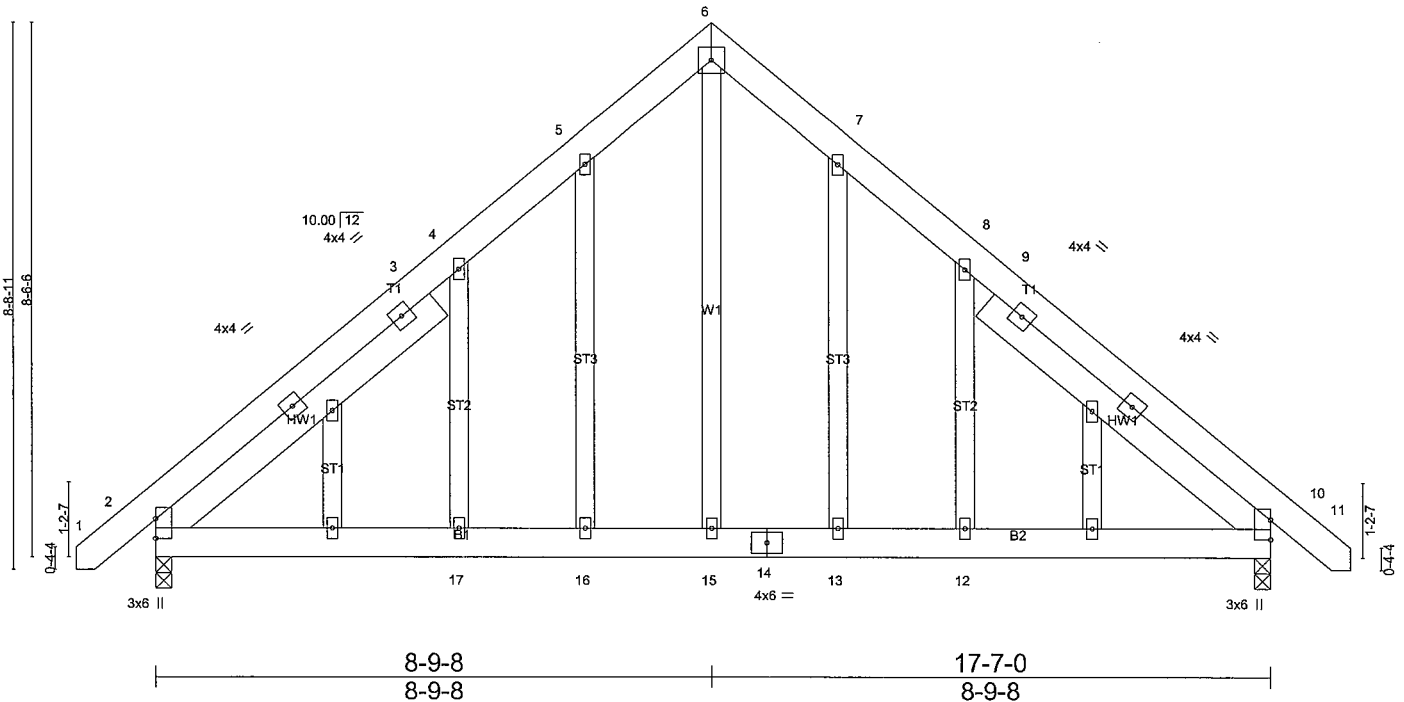
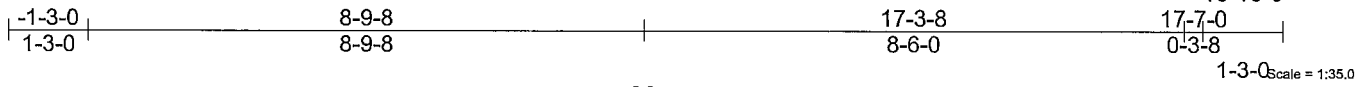
**LOAD CASE(S)** Standard



Job J0222-1061	Truss E1GE	Truss Type GABLE	Qty 1	Ply 1	Holland Residence
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Comtech, Inc., Fayetteville, NC 28309, David Landry

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<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSL</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.20	Vert(LL) -0.05 17 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.29	Vert(CT) -0.07 17 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.27	Horz(CT) 0.01 10 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.05 17 >999 240		
				Weight: 177 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2  
 OTHERS 2x4 SP No.2  
 SLIDER Left 2x6 SP No.1 -x 5-8-11, Right 2x6 SP No.1 -x 5-8-11

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 10=770/0-3-0 (min. 0-1-8), 2=770/0-3-0 (min. 0-1-8)  
 Max Horz 2=198(LC 11)  
 Max Uplift 10=-43(LC 13), 2=-43(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-733/127, 3-4=-580/146, 4-5=-622/251, 5-6=-674/329, 6-7=-674/329,  
 7-8=-622/251, 8-9=-580/146, 9-10=-733/127  
 BOT CHORD 2-17=0/474, 16-17=0/474, 15-16=0/474, 14-15=0/474, 13-14=0/474, 12-13=0/474,  
 10-12=0/474  
 WEBS 6-15=-253/557

**NOTES-**

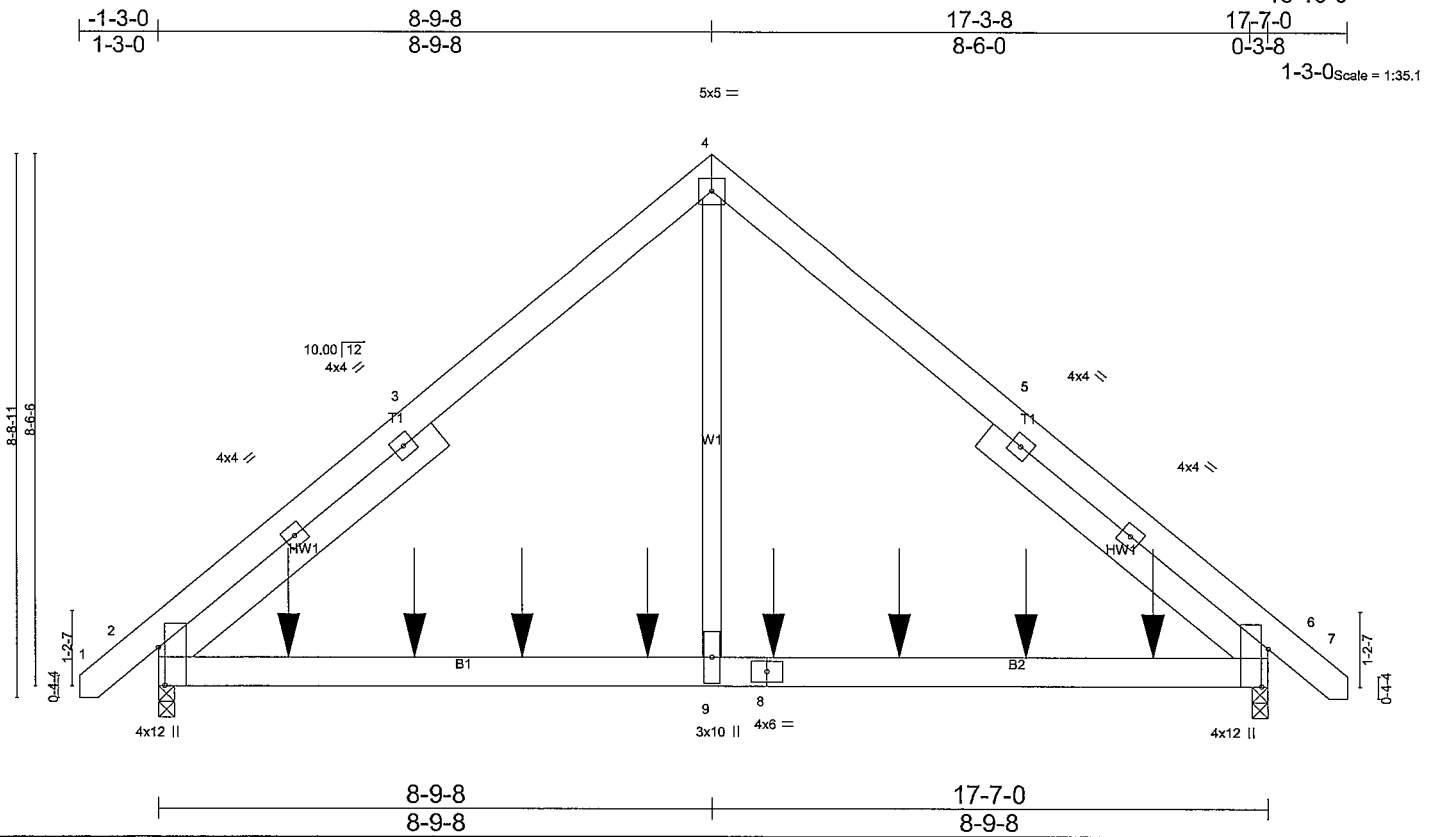
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) -1-1-4 to 3-3-9, Exterior(2) 3-3-9 to 8-9-8, Corner(3) 8-9-8 to 13-2-5, Exterior(2) 13-2-5 to 18-8-4 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 2.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job J0222-1061	Truss E1-GR	Truss Type COMMON	Qty 1	Ply 2	Holland Residence
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC 28309, David Landry

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LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.18	2-9	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.20	2-9	>999	240	Weight: 282 lb FT = 20%		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.35	Horz(CT)	-0.01	6	n/a	n/a			
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S									

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.2  
SLIDER Left 2x6 SP No.1 -x 5-8-11, Right 2x6 SP No.1 -x 5-8-11

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

**REACTIONS.** (lb/size) 6=1560/0-3-0 (min. 0-1-8), 2=2004/0-3-0 (min. 0-1-8)  
Max Horz 2=198(LC 7)  
Max Uplift 6=-1283(LC 9), 2=-1200(LC 8)  
Max Grav 6=1657(LC 41), 2=2004(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1717/1233, 3-4=-1564/1300, 4-5=-1547/1298, 5-6=-1736/1231  
BOT CHORD 2-10=-953/1235, 10-11=-953/1235, 11-12=-953/1235, 12-13=-953/1235, 9-13=-953/1235,  
8-9=-953/1235, 8-14=-953/1235, 14-15=-953/1235, 15-16=-953/1235, 6-16=-953/1235  
WEBS 4-9=-1561/1609

- NOTES-**
- 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: 2x6 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - 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.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=1283, 2=1200.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job J0222-1061	Truss E1-GR	Truss Type COMMON	Qty 1	Ply 2	Holland Residence Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, David Landry

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**NOTES-**

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 520 lb down and 222 lb up at 2-0-12, 520 lb down and 222 lb up at 4-0-12, 322 lb down and 448 lb up at 5-9-4, 251 lb down and 314 lb up at 7-9-4, 251 lb down and 314 lb up at 9-9-4, 251 lb down and 314 lb up at 11-9-4, and 251 lb down and 314 lb up at 13-9-4, and 251 lb down and 314 lb up at 15-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**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, 2-6=-20

Concentrated Loads (lb)

Vert: 8=-168(F) 10=-520(F) 11=-520(F) 12=-144(F) 13=-168(F) 14=-168(F) 15=-168(F) 16=-168(F)

Job J0222-1061	Truss G1	Truss Type ATTIC	Qty 3	Ply 1	Holland Residence
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Comtech, Inc., Fayetteville, NC 28309, David Landry

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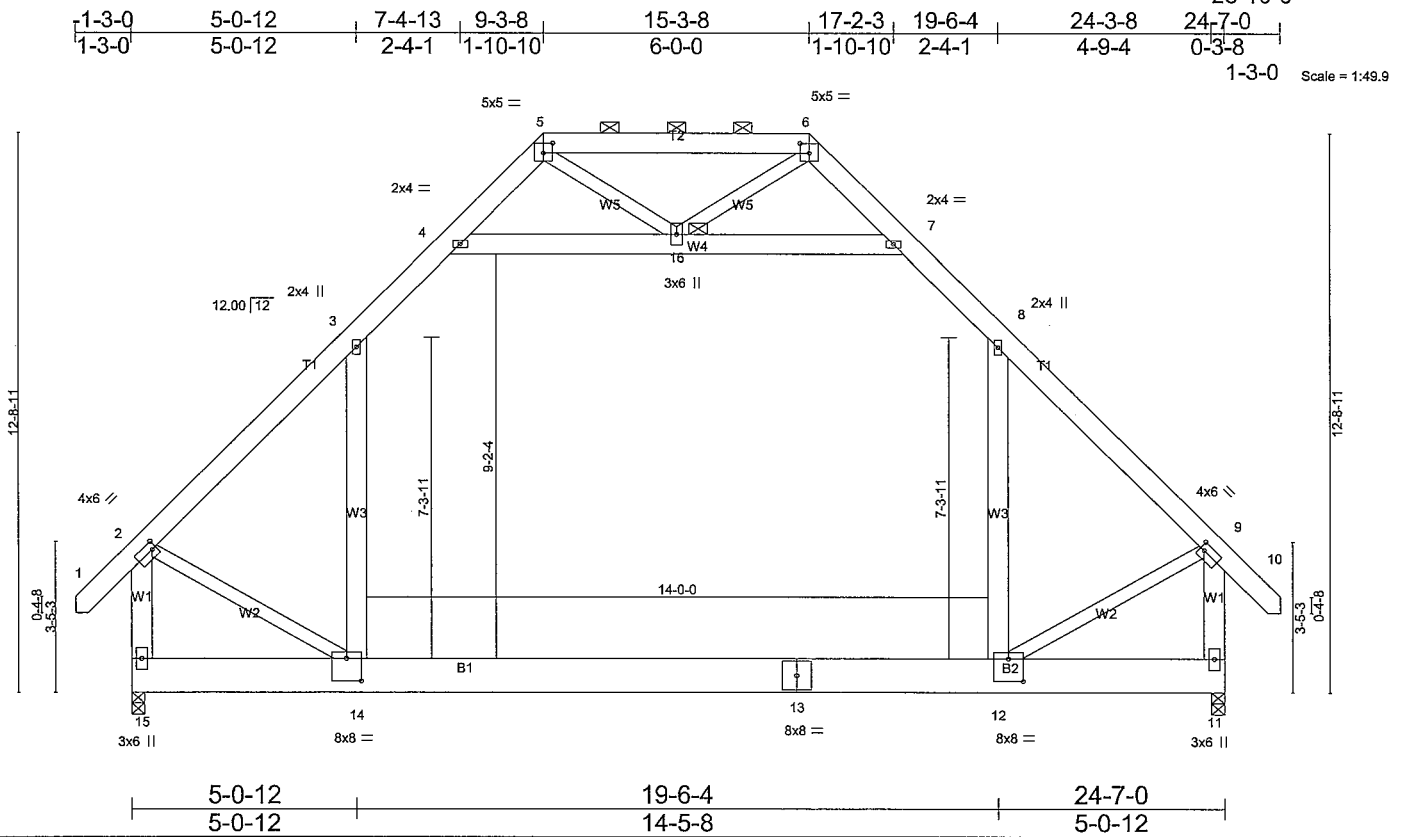


Plate Offsets (X,Y)- [2:0-1-4,0-2-0], [5:0-2-8,0-2-12], [6:0-2-8,0-2-12], [9:0-1-4,0-2-0], [12:0-4-0,0-6-4], [14:0-4-0,0-6-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.64	Vert(LL)	-0.27	12-14	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.87	Vert(CT)	-0.43	12-14	>676		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.29	Horz(CT)	0.01	11	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.08	12-14	>999		
	Code IRC2015/TPI2014						Weight: 277 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
BOT CHORD 2x10 SP No.1  
WEBS 2x6 SP No.1 \*Except\*  
W2,W5: 2x4 SP No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-0-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); 5-6.  
BOT CHORD Rigid ceiling directly applied or 7-6-1 oc bracing.  
JOINTS 1 Brace at Jt(s): 16

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 15=1413/0-3-8 (min. 0-2-0), 11=1413/0-3-8 (min. 0-2-0)  
Max Horz 15=353(LC 11)  
Max Grav 15=1712(LC 2), 11=1712(LC 2)

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

TOP CHORD 2-17=-1670/3, 3-17=-1516/22, 3-4=-1068/195, 4-5=-413/156, 5-6=-285/108,  
6-7=-413/155, 7-8=-1068/194, 8-18=-1515/21, 9-18=-1669/1, 2-15=-1977/45,  
9-11=-1978/44  
BOT CHORD 14-15=-327/382, 13-14=0/1096, 12-13=0/1096  
WEBS 3-14=-42/696, 4-16=-1132/119, 7-16=-1132/116, 8-12=-42/696, 2-14=0/1208,  
9-12=0/1210

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-6 to 3-3-7, Interior(1) 3-3-7 to 9-3-8, Exterior(2) 9-3-8 to 21-6-3, Interior(1) 21-6-3 to 25-8-6 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 3-4, 7-8, 4-16, 7-16; Wall dead load (5.0psf) on member(s). 3-14, 8-12
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job J0222-1061	Truss G1-GR	Truss Type ATTIC	Qty 2	Ply 3	Holland Residence
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

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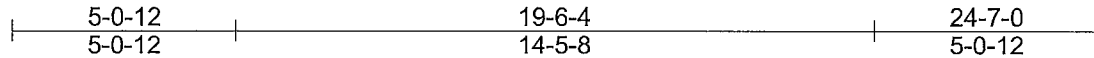
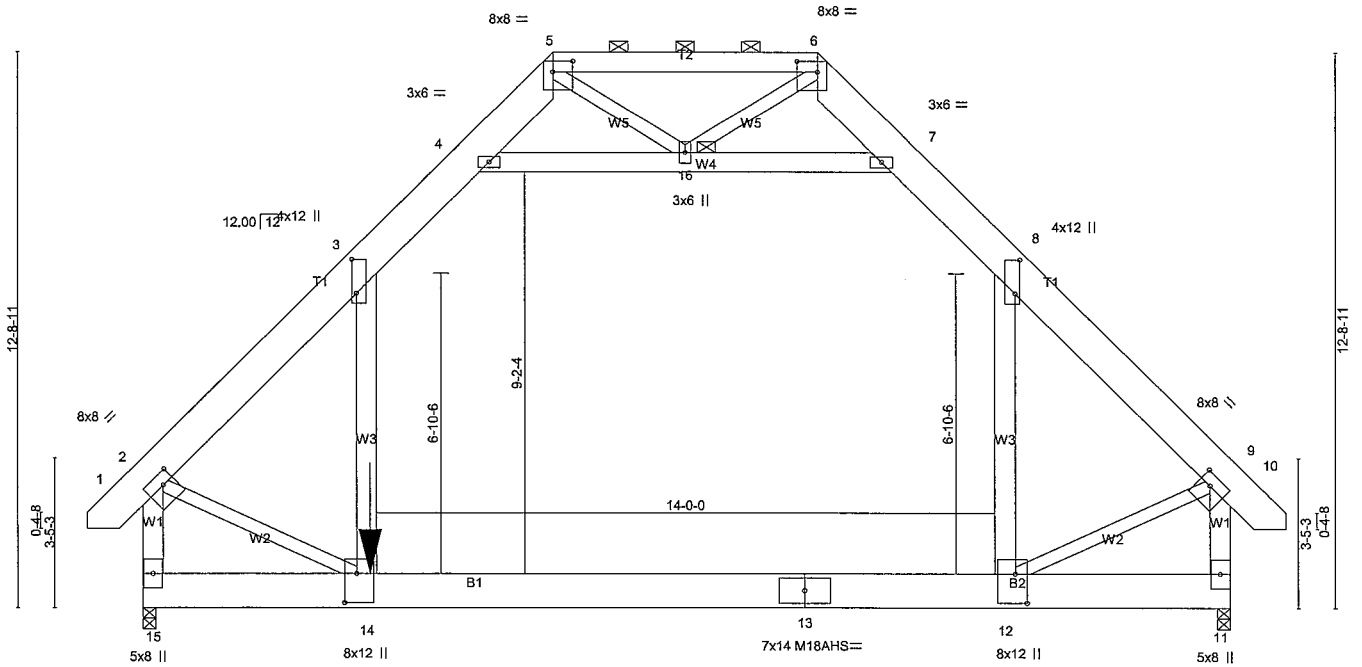
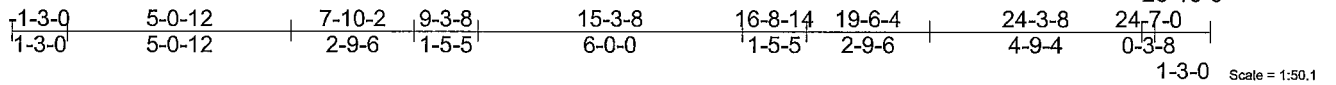


Plate Offsets (X,Y) - [2:0-3-4,0-3-0], [3:0-9-4,0-1-4], [5:0-5-8,0-3-0], [6:0-5-8,0-3-0], [8:0-9-4,0-1-4], [9:0-3-4,0-3-0], [12:0-8-0,0-3-4], [14:0-8-0,0-3-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.62	Vert(LL)	-0.27 12-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.65	Vert(CT)	-0.39 12-14	>744	240	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.50	Horz(CT)	0.01 11	n/a	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-S	Wind(LL)	0.08 12-14	>999	240		Weight: 954 lb FT = 20%

**LUMBER-**

TOP CHORD 2x10 SP 2400F 2.0E \*Except\*  
T2: 2x6 SP No.1  
BOT CHORD 2x10 SP 2400F 2.0E  
WEBS 2x6 SP No.1 \*Except\*  
W2,W5: 2x4 SP No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 5-6.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
JOINTS 1 Brace at Jt(s): 16

**REACTIONS.** (lb/size) 15=5753/0-3-8 (min. 0-2-13), 11=3007/0-3-8 (min. 0-1-10)  
Max Horz 15=248(LC 7)  
Max Grav 15=10152(LC 16), 11=5991(LC 14)

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

TOP CHORD 2-3=-8223/0, 3-4=-3123/0, 4-5=0/1152, 5-6=0/1925, 6-7=0/1428, 7-8=-4103/0,  
8-9=-6595/0, 2-15=-9287/0, 9-11=-7413/0  
BOT CHORD 14-15=-290/765, 13-14=0/4684, 12-13=0/4684  
WEBS 3-14=0/7003, 4-16=-5769/0, 7-16=-7716/0, 8-12=0/3735, 2-14=0/4676, 9-12=0/5583,  
5-16=-1094/290, 6-16=-144/1569

**NOTES-**

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x6 - 3 rows staggered at 0-4-0 oc, Except member 4-7 2x6 - 2 rows staggered at 0-9-0 oc, member 8-12 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
- 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph 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
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 3-4, 7-8, 4-16, 7-16; Wall dead load (5.0psf) on member(s). 3-14, 8-12
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14

Continued on page 2

Job J0222-1061	Truss G1-GR	Truss Type ATTIC	Qty 2	Ply 3	Holland Residence Job Reference (optional)
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**NOTES-**

- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 8810 lb down and 537 lb up at 5-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) Attic room checked for L/360 deflection.

**LOAD CASE(S) Standard**

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 3-4=-80, 4-5=-60, 5-6=-60, 6-7=-60, 7-8=-80, 8-9=-60, 9-10=-60, 14-15=-20, 12-14=-85(F=-45), 11-12=-85(F=-65), 4-7=-20

Drag: 3-14=-10, 8-12=-10

Concentrated Loads (lb)

Vert: 14=5000(F)

2) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-50, 2-3=-50, 3-4=-70, 4-5=-50, 5-6=-50, 6-7=-50, 7-8=-70, 8-9=-50, 9-10=-50, 14-15=-20, 12-14=-280(F=-180), 11-12=-280(F=-260), 4-7=-20

Drag: 3-14=-10, 8-12=-10

Concentrated Loads (lb)

Vert: 14=8125(F)

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-20, 2-3=-20, 3-4=-40, 4-5=-20, 5-6=-20, 6-7=-20, 7-8=-40, 8-9=-20, 9-10=-20, 14-15=-40, 12-14=-85(F=-45), 11-12=-105(F=-65), 4-7=-20

Drag: 3-14=-10, 8-12=-10

Concentrated Loads (lb)

Vert: 14=3750(F)

4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=2, 2-3=-13, 3-4=-25, 4-5=-13, 5-6=21, 6-7=11, 7-8=-1, 8-9=11, 9-10=4, 14-15=-12, 12-14=-69(F=-45), 11-12=-77(F=-65), 4-7=-12

Horz: 1-2=-14, 2-5=1, 6-9=23, 9-10=16

Drag: 3-14=-10, 8-12=-10

Concentrated Loads (lb)

Vert: 14=537(F)

5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=4, 2-3=11, 3-4=-1, 4-5=11, 5-6=21, 6-7=-13, 7-8=-25, 8-9=-13, 9-10=2, 14-15=-12, 12-14=-69(F=-45), 11-12=-77(F=-65), 4-7=-12

Horz: 1-2=-16, 2-5=-23, 6-9=-1, 9-10=14

Drag: 3-14=-10, 8-12=-10

Concentrated Loads (lb)

Vert: 14=537(F)

6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-28, 2-3=-35, 3-4=-55, 4-5=-35, 5-6=-1, 6-7=-11, 7-8=-31, 8-9=-11, 9-10=-4, 14-15=-20, 12-14=-85(F=-45), 11-12=-85(F=-65), 4-7=-20

Horz: 1-2=8, 2-5=15, 6-9=9, 9-10=16

Drag: 3-14=-10, 8-12=-10

Concentrated Loads (lb)

Vert: 14=3413(F)

7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-4, 2-3=-11, 3-4=-31, 4-5=-11, 5-6=-1, 6-7=-35, 7-8=-55, 8-9=-35, 9-10=-28, 14-15=-20, 12-14=-85(F=-45), 11-12=-85(F=-65), 4-7=-20

Horz: 1-2=-16, 2-5=-9, 6-9=-15, 9-10=8

Drag: 3-14=-10, 8-12=-10

Concentrated Loads (lb)

Vert: 14=3413(F)

8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=14, 2-3=21, 3-4=9, 4-5=21, 5-6=9, 6-7=9, 7-8=-3, 8-9=9, 9-10=2, 14-15=-12, 12-14=-69(F=-45), 11-12=-77(F=-65), 4-7=-12

Horz: 1-2=-26, 2-5=-33, 6-9=21, 9-10=14

Drag: 3-14=-10, 8-12=-10

Concentrated Loads (lb)

Vert: 14=537(F)

9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=2, 2-3=9, 3-4=-3, 4-5=9, 5-6=9, 6-7=21, 7-8=9, 8-9=21, 9-10=14, 14-15=-12, 12-14=-69(F=-45), 11-12=-77(F=-65), 4-7=-12

Horz: 1-2=-14, 2-5=-21, 6-9=33, 9-10=26

Drag: 3-14=-10, 8-12=-10

Concentrated Loads (lb)

Vert: 14=537(F)

10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=14, 2-3=21, 3-4=9, 4-5=21, 5-6=9, 6-7=9, 7-8=-3, 8-9=9, 9-10=2, 14-15=-12, 12-14=-69(F=-45), 11-12=-77(F=-65), 4-7=-12

Horz: 1-2=-26, 2-5=-33, 6-9=21, 9-10=14

Drag: 3-14=-10, 8-12=-10

Concentrated Loads (lb)

Vert: 14=537(F)

11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

Job	Truss	Truss Type	Qty	Ply	Holland Residence
J0222-1061	G1-GR	ATTIC	2	3	Job Reference (optional)

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**LOAD CASE(S) Standard**

- Uniform Loads (plf)
  - Vert: 1-2=2, 2-3=9, 3-4=-3, 4-5=9, 5-6=9, 6-7=21, 7-8=9, 8-9=21, 9-10=14, 14-15=-12, 12-14=-69(F=-45), 11-12=-77(F=-65), 4-7=-12
  - Horz: 1-2=-14, 2-5=-21, 6-9=33, 9-10=26
  - Drag: 3-14=-10, 8-12=-10
- Concentrated Loads (lb)
  - Vert: 14=537(F)
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
  - Uniform Loads (plf)
    - Vert: 1-2=6, 2-3=-1, 3-4=-21, 4-5=-1, 5-6=-13, 6-7=-13, 7-8=-33, 8-9=-13, 9-10=-6, 14-15=-20, 12-14=-85(F=-45), 11-12=-85(F=-65), 4-7=-20
    - Horz: 1-2=-26, 2-5=-19, 6-9=7, 9-10=14
    - Drag: 3-14=-10, 8-12=-10
  - Concentrated Loads (lb)
    - Vert: 14=-2921(F)
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
  - Uniform Loads (plf)
    - Vert: 1-2=-6, 2-3=-13, 3-4=-33, 4-5=-13, 5-6=-13, 6-7=-1, 7-8=-21, 8-9=-1, 9-10=6, 14-15=-20, 12-14=-85(F=-45), 11-12=-85(F=-65), 4-7=-20
    - Horz: 1-2=-14, 2-5=7, 6-9=19, 9-10=26
    - Drag: 3-14=-10, 8-12=-10
  - Concentrated Loads (lb)
    - Vert: 14=-2921(F)
- 14) Dead + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
  - Uniform Loads (plf)
    - Vert: 1-2=-20, 2-3=-20, 3-4=-40, 4-5=-20, 5-6=-20, 6-7=-20, 7-8=-40, 8-9=-20, 9-10=-20, 14-15=-20, 12-14=-345(F=-225), 11-12=-345(F=-325), 4-7=-20
    - Drag: 3-14=-10, 8-12=-10
  - Concentrated Loads (lb)
    - Vert: 14=-7500(F)
- 15) Dead: Lumber Increase=1.00, Plate Increase=1.00
  - Uniform Loads (plf)
    - Vert: 1-2=-20, 2-3=-20, 3-4=-40, 4-5=-20, 5-6=-20, 6-7=-20, 7-8=-40, 8-9=-20, 9-10=-20, 14-15=-20, 12-14=-345(F=-225), 11-12=-345(F=-325), 4-7=-20
    - Drag: 3-14=-10, 8-12=-10
  - Concentrated Loads (lb)
    - Vert: 14=-7500(F)
- 16) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
  - Uniform Loads (plf)
    - Vert: 1-2=-56, 2-3=-61, 3-4=-81, 4-5=-61, 5-6=-36, 6-7=-43, 7-8=-63, 8-9=-43, 9-10=-38, 14-15=-20, 12-14=-280(F=-180), 11-12=-280(F=-260), 4-7=-20
    - Horz: 1-2=6, 2-5=11, 6-9=7, 9-10=12
    - Drag: 3-14=-10, 8-12=-10
  - Concentrated Loads (lb)
    - Vert: 14=-8810(F)
- 17) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
  - Uniform Loads (plf)
    - Vert: 1-2=-38, 2-3=-43, 3-4=-63, 4-5=-43, 5-6=-36, 6-7=-61, 7-8=-81, 8-9=-61, 9-10=-56, 14-15=-20, 12-14=-280(F=-180), 11-12=-280(F=-260), 4-7=-20
    - Horz: 1-2=-12, 2-5=7, 6-9=-11, 9-10=-6
    - Drag: 3-14=-10, 8-12=-10
  - Concentrated Loads (lb)
    - Vert: 14=-8810(F)
- 18) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
  - Uniform Loads (plf)
    - Vert: 1-2=-31, 2-3=-36, 3-4=-56, 4-5=-36, 5-6=-45, 6-7=-45, 7-8=-65, 8-9=-45, 9-10=-40, 14-15=-20, 12-14=-280(F=-180), 11-12=-280(F=-260), 4-7=-20
    - Horz: 1-2=-19, 2-5=-14, 6-9=5, 9-10=10
    - Drag: 3-14=-10, 8-12=-10
  - Concentrated Loads (lb)
    - Vert: 14=-8441(F)
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
  - Uniform Loads (plf)
    - Vert: 1-2=-40, 2-3=-45, 3-4=-65, 4-5=-45, 5-6=-45, 6-7=-36, 7-8=-56, 8-9=-36, 9-10=-31, 14-15=-20, 12-14=-280(F=-180), 11-12=-280(F=-260), 4-7=-20
    - Horz: 1-2=-10, 2-5=-5, 6-9=14, 9-10=19
    - Drag: 3-14=-10, 8-12=-10
  - Concentrated Loads (lb)
    - Vert: 14=-8441(F)
- 20) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-2=-60, 2-3=-60, 3-4=-80, 4-5=-60, 5-6=-60, 6-7=-20, 7-8=-40, 8-9=-20, 9-10=-20, 14-15=-20, 12-14=-85(F=-45), 11-12=-85(F=-65), 4-7=-20
    - Drag: 3-14=-10, 8-12=-10
  - Concentrated Loads (lb)
    - Vert: 14=-5000(F)
- 21) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-2=-20, 2-3=-20, 3-4=-40, 4-5=-20, 5-6=-60, 6-7=-60, 7-8=-80, 8-9=-60, 9-10=-60, 14-15=-20, 12-14=-85(F=-45), 11-12=-85(F=-65), 4-7=-20
    - Drag: 3-14=-10, 8-12=-10
  - Concentrated Loads (lb)
    - Vert: 14=-5000(F)
- 22) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Job J0222-1061	Truss G1-GR	Truss Type ATTIC	Qty 2	Ply 3	Holland Residence Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Mar 1 16:07:24 2022 Page 4  
ID:twd?SCwoJ8kxcOCjwNeOR\_zqs\_rFroSGY9T961klR4nGFhWqGXg7SwMB8iGStsIZfZfBn

**LOAD CASE(S)** Standard

- Uniform Loads (plf)
  - Vert: 1-2=-50, 2-3=-50, 3-4=-70, 4-5=-50, 5-6=-50, 6-7=-20, 7-8=-40, 8-9=-20, 9-10=-20, 14-15=-20, 12-14=-280(F=-180), 11-12=-280(F=-260), 4-7=-20
  - Drag: 3-14=-10, 8-12=-10
- Concentrated Loads (lb)
  - Vert: 14=-8125(F)
- 23) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-2=-20, 2-3=-20, 3-4=-40, 4-5=-20, 5-6=-50, 6-7=-50, 7-8=-70, 8-9=-50, 9-10=-50, 14-15=-20, 12-14=-280(F=-180), 11-12=-280(F=-260), 4-7=-20
    - Drag: 3-14=-10, 8-12=-10
  - Concentrated Loads (lb)
    - Vert: 14=-8125(F)
- 24) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
  - Uniform Loads (plf)
    - Vert: 1-2=2, 2-3=-13, 3-4=-25, 4-5=-13, 5-6=21, 6-7=11, 7-8=-1, 8-9=11, 9-10=4, 14-15=-12, 12-14=-69(F=-45), 11-12=-77(F=-65), 4-7=-12
    - Horz: 1-2=-14, 2-5=1, 6-9=23, 9-10=16
    - Drag: 3-14=-10, 8-12=-10
  - Concentrated Loads (lb)
    - Vert: 14=537(F)
- 25) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
  - Uniform Loads (plf)
    - Vert: 1-2=4, 2-3=11, 3-4=-1, 4-5=11, 5-6=21, 6-7=-13, 7-8=-25, 8-9=-13, 9-10=2, 14-15=-12, 12-14=-69(F=-45), 11-12=-77(F=-65), 4-7=-12
    - Horz: 1-2=-16, 2-5=-23, 6-9=-1, 9-10=14
    - Drag: 3-14=-10, 8-12=-10
  - Concentrated Loads (lb)
    - Vert: 14=537(F)
- 26) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
  - Uniform Loads (plf)
    - Vert: 1-2=-28, 2-3=-35, 3-4=-55, 4-5=-35, 5-6=-1, 6-7=-11, 7-8=-31, 8-9=-11, 9-10=-4, 14-15=-20, 12-14=-85(F=-45), 11-12=-85(F=-65), 4-7=-20
    - Horz: 1-2=8, 2-5=15, 6-9=9, 9-10=16
    - Drag: 3-14=-10, 8-12=-10
  - Concentrated Loads (lb)
    - Vert: 14=-3413(F)
- 27) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
  - Uniform Loads (plf)
    - Vert: 1-2=-4, 2-3=-11, 3-4=-31, 4-5=-11, 5-6=-1, 6-7=-35, 7-8=-55, 8-9=-35, 9-10=-28, 14-15=-20, 12-14=-85(F=-45), 11-12=-85(F=-65), 4-7=-20
    - Horz: 1-2=-16, 2-5=-9, 6-9=-15, 9-10=-8
    - Drag: 3-14=-10, 8-12=-10
  - Concentrated Loads (lb)
    - Vert: 14=-3413(F)
- 28) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
  - Uniform Loads (plf)
    - Vert: 1-2=14, 2-3=21, 3-4=9, 4-5=21, 5-6=9, 6-7=9, 7-8=-3, 8-9=9, 9-10=2, 14-15=-12, 12-14=-69(F=-45), 11-12=-77(F=-65), 4-7=-12
    - Horz: 1-2=-26, 2-5=-33, 6-9=21, 9-10=14
    - Drag: 3-14=-10, 8-12=-10
  - Concentrated Loads (lb)
    - Vert: 14=537(F)
- 29) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
  - Uniform Loads (plf)
    - Vert: 1-2=2, 2-3=9, 3-4=-3, 4-5=9, 5-6=9, 6-7=21, 7-8=9, 8-9=21, 9-10=14, 14-15=-12, 12-14=-69(F=-45), 11-12=-77(F=-65), 4-7=-12
    - Horz: 1-2=-14, 2-5=-21, 6-9=33, 9-10=26
    - Drag: 3-14=-10, 8-12=-10
  - Concentrated Loads (lb)
    - Vert: 14=537(F)
- 30) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
  - Uniform Loads (plf)
    - Vert: 1-2=14, 2-3=21, 3-4=9, 4-5=21, 5-6=9, 6-7=9, 7-8=-3, 8-9=9, 9-10=2, 14-15=-12, 12-14=-69(F=-45), 11-12=-77(F=-65), 4-7=-12
    - Horz: 1-2=-26, 2-5=-33, 6-9=21, 9-10=14
    - Drag: 3-14=-10, 8-12=-10
  - Concentrated Loads (lb)
    - Vert: 14=537(F)
- 31) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
  - Uniform Loads (plf)
    - Vert: 1-2=2, 2-3=9, 3-4=-3, 4-5=9, 5-6=9, 6-7=21, 7-8=9, 8-9=21, 9-10=14, 14-15=-12, 12-14=-69(F=-45), 11-12=-77(F=-65), 4-7=-12
    - Horz: 1-2=-14, 2-5=-21, 6-9=33, 9-10=26
    - Drag: 3-14=-10, 8-12=-10
  - Concentrated Loads (lb)
    - Vert: 14=537(F)
- 32) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
  - Uniform Loads (plf)
    - Vert: 1-2=6, 2-3=-1, 3-4=-21, 4-5=-1, 5-6=-13, 6-7=-13, 7-8=-33, 8-9=-13, 9-10=-6, 14-15=-20, 12-14=-85(F=-45), 11-12=-85(F=-65), 4-7=-20
    - Horz: 1-2=-26, 2-5=-19, 6-9=7, 9-10=14
    - Drag: 3-14=-10, 8-12=-10
  - Concentrated Loads (lb)
    - Vert: 14=-2921(F)
- 33) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60



Job	Truss	Truss Type	Qty	Ply	Holland Residence
J0222-1061	G1-GR	ATTIC	2	3	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MITek Industries, Inc. Tue Mar 1 16:07:24 2022 Page 5  
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**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-2=-6, 2-3=-13, 3-4=-33, 4-5=-13, 5-6=-13, 6-7=-1, 7-8=-21, 8-9=-1, 9-10=6, 14-15=-20, 12-14=-85(F=-45), 11-12=-85(F=-65), 4-7=-20  
Horz: 1-2=-14, 2-5=-7, 6-9=19, 9-10=26  
Drag: 3-14=-10, 8-12=-10

Concentrated Loads (lb)

Vert: 14=-2921(F)

34) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-56, 2-3=-61, 3-4=-81, 4-5=-61, 5-6=-36, 6-7=-43, 7-8=-63, 8-9=-43, 9-10=-38, 14-15=-20, 12-14=-280(F=-180), 11-12=-280(F=-260), 4-7=-20  
Horz: 1-2=6, 2-5=11, 6-9=7, 9-10=12  
Drag: 3-14=-10, 8-12=-10

Concentrated Loads (lb)

Vert: 14=-8810(F)

35) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-38, 2-3=-43, 3-4=-63, 4-5=-43, 5-6=-36, 6-7=-61, 7-8=-81, 8-9=-61, 9-10=-56, 14-15=-20, 12-14=-280(F=-180), 11-12=-280(F=-260), 4-7=-20  
Horz: 1-2=-12, 2-5=-7, 6-9=-11, 9-10=-6  
Drag: 3-14=-10, 8-12=-10

Concentrated Loads (lb)

Vert: 14=-8810(F)

36) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-31, 2-3=-36, 3-4=-56, 4-5=-36, 5-6=-45, 6-7=-45, 7-8=-65, 8-9=-45, 9-10=-40, 14-15=-20, 12-14=-280(F=-180), 11-12=-280(F=-260), 4-7=-20  
Horz: 1-2=-19, 2-5=-14, 6-9=5, 9-10=10  
Drag: 3-14=-10, 8-12=-10

Concentrated Loads (lb)

Vert: 14=-8441(F)

37) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-40, 2-3=-45, 3-4=-65, 4-5=-45, 5-6=-45, 6-7=-36, 7-8=-56, 8-9=-36, 9-10=-31, 14-15=-20, 12-14=-280(F=-180), 11-12=-280(F=-260), 4-7=-20  
Horz: 1-2=-10, 2-5=-5, 6-9=14, 9-10=19  
Drag: 3-14=-10, 8-12=-10

Concentrated Loads (lb)

Vert: 14=-8441(F)

Job J0222-1061	Truss G1SG	Truss Type GABLE	Qty 1	Ply 1	Holland Residence
Comtech, Inc., Fayetteville, NC 28309, David Landry					Job Reference (optional)

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Mar 1 16:07:25 2022 Page 1  
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 25-10-0

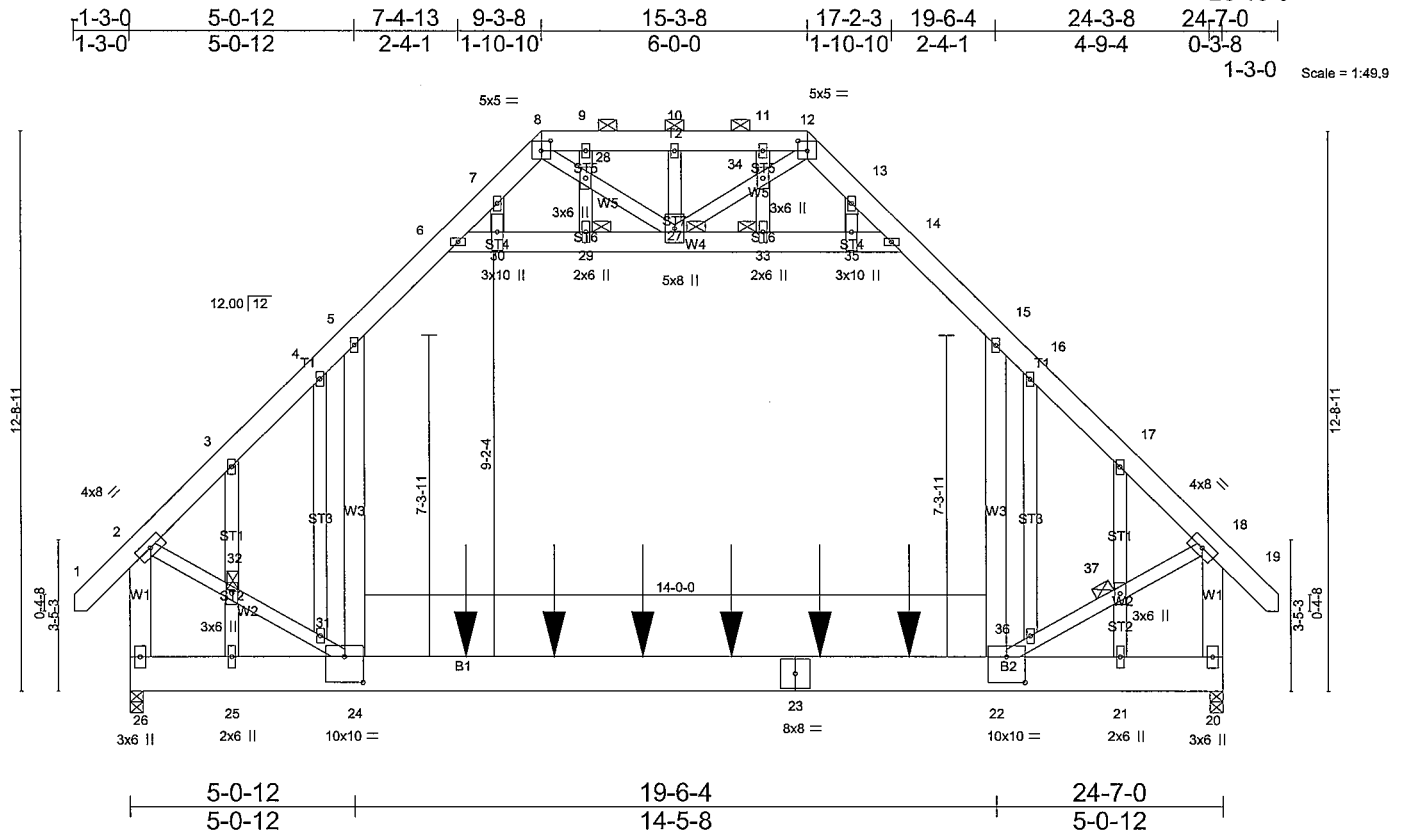


Plate Offsets (X,Y)-- [8:0-2-8,0-2-12], [12:0-2-8,0-2-12], [22:0-5-0,0-7-0], [24:0-5-0,0-7-0]					
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.79	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.46	Vert(LL) -0.22 22-24 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.82	Vert(CT) -0.39 22-24 >737 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.01 20 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.12 22-24 >999 240		Weight: 317 lb FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-2-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); 8-12.
BOT CHORD 2x10 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 22-24.
WEBS 2x6 SP No.1 *Except*	JOINTS 1 Brace at Jt(s): 27, 29, 32, 33, 37
W2,W5: 2x4 SP No.2	
OTHERS 2x4 SP No.2	

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 26=1732/0-3-8 (min. 0-1-10), 20=1747/0-3-8 (min. 0-1-10)  
 Max Horz 26=443(LC 27)  
 Max Uplift 26=-9(LC 8), 20=-13(LC 9)  
 Max Grav 26=1986(LC 2), 20=1999(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**TOP CHORD** 2-3=-1686/29, 3-4=-2067/123, 4-5=-1953/152, 5-6=-1227/150, 6-7=-447/127, 7-8=-201/267, 8-9=-143/296, 9-10=-140/294, 10-11=-140/294, 11-12=-143/296, 12-13=-203/266, 13-14=-446/128, 14-15=-1226/150, 15-16=-1957/153, 16-17=-2068/123, 17-18=-1688/29, 2-26=-1858/1, 18-20=-1859/2  
**BOT CHORD** 25-26=-439/443, 24-25=-439/443, 24-38=-59/1295, 38-39=-59/1295, 39-40=-59/1295, 40-41=-59/1295, 23-41=-59/1295, 23-42=-59/1295, 42-43=-59/1295, 22-43=-59/1295  
**WEBS** 5-24=-129/1018, 6-30=-1367/245, 29-30=-1360/244, 27-29=-1366/249, 27-33=-1364/248, 33-35=-1358/243, 14-35=-1365/244, 15-22=-132/1022, 2-32=-78/1451, 31-32=-76/1541, 24-31=-115/1593, 22-36=-115/1590, 36-37=-77/1540, 18-37=-78/1450, 7-30=-59/501, 3-32=-633/124, 25-32=-821/118, 13-35=-58/499, 17-37=-633/123, 21-37=-821/118

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 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.
  - Provide adequate drainage to prevent water ponding.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2

Job J0222-1061	Truss G1SG	Truss Type GABLE	Qty 1	Ply 1	Holland Residence Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, David Landry

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**NOTES-**

- 8) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Ceiling dead load (10.0 psf) on member(s). 5-6, 14-15, 6-30, 29-30, 27-29, 27-33, 33-35, 14-35; Wall dead load (5.0psf) on member(s).5-24, 15-22
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 22-24
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26, 20.
- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 109 lb down and 40 lb up at 7-6-12, 109 lb down and 40 lb up at 9-6-12, 109 lb down and 40 lb up at 11-6-12, 109 lb down and 40 lb up at 13-6-12, and 109 lb down and 40 lb up at 15-6-12, and 109 lb down and 40 lb up at 17-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-5=-60, 5-6=-80, 6-8=-60, 8-12=-60, 12-14=-60, 14-15=-80, 15-18=-60, 18-19=-60, 24-26=-20, 22-24=-40, 20-22=-20, 6-14=-20  
Drag: 5-24=-10, 15-22=-10

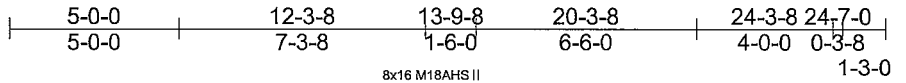
Concentrated Loads (lb)

Vert: 38=-109 39=-109 40=-109 41=-109 42=-109 43=-109

Job J0222-1061	Truss G2	Truss Type ROOF SPECIAL	Qty 4	Ply 1	Holland Residence
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Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Mar 1 16:07:26 2022 Page 1  
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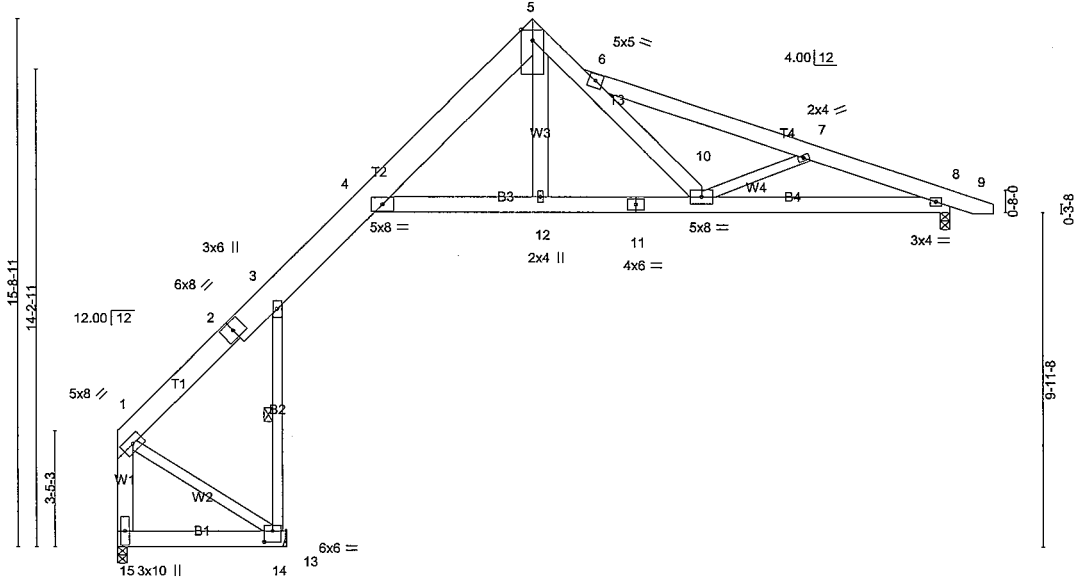


Plate Offsets (X,Y)-- [14:0-3-0,0-4-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/def	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.49	Vert(LL)	-0.07 10-12	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.25	Vert(CT)	-0.14 10-12	>999	240	M18AHS	186/179
BCLL 0.0 *	Lumber DOL 1.15	WB 0.17	Horz(CT)	0.11 8	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.06 10-12	>999	240		
	Code IRC2015/TPI2014						Weight: 204 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1 \*Except\*  
 T1: 2x8 SP No.1, T2: 2x10 SP No.1  
 BOT CHORD 2x6 SP No.1 \*Except\*  
 B2: 2x4 SP No.2  
 WEBS 2x6 SP No.1 \*Except\*  
 W2,W4: 2x4 SP No.2

**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, Except: 6-0-0 oc bracing: 14-15, 5-2-0 oc bracing: 3-14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 15=-37/0-3-8 (min. 0-1-8), 14=1185/Mechanical, 8=803/0-3-8 (min. 0-1-8)  
 Max Horz 15=286(LC 12)  
 Max Uplift 15=-375(LC 10), 14=-531(LC 12), 8=-96(LC 9)  
 Max Grav 15=433(LC 12), 14=1370(LC 19), 8=803(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-350/528, 2-3=-316/534, 3-4=-520/80, 4-5=-934/192, 5-6=-506/173, 6-10=-37/460,  
 6-7=-1256/254, 7-16=-1573/408, 8-16=-1641/405, 1-15=-402/563  
 BOT CHORD 14-15=-282/313, 3-14=-1283/506, 4-12=-507/116, 11-12=-49/725, 10-11=-49/725,  
 8-10=-325/1513  
 WEBS 1-14=-380/339, 5-12=0/256, 7-10=-444/250

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-8-12, Interior(1) 4-8-12 to 12-3-8, Exterior(2) 12-3-8 to 13-8-1, Interior(1) 13-8-1 to 25-6-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) All plates are MT20 plates unless otherwise indicated.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Refer to girder(s) for truss to truss connections.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 15=375, 14=531.
  - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

Job J0222-1061	Truss G2	Truss Type ROOF SPECIAL	Qty 4	Ply 1	Holland Residence Job Reference (optional)
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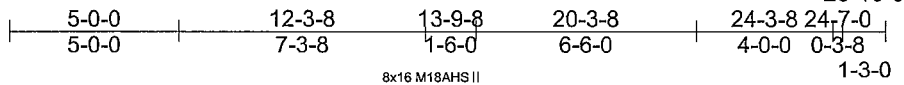
Comtech, Inc., Fayetteville, NC 28309, David Landry

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LOAD CASE(S) Standard

Job J0222-1061	Truss G2SG	Truss Type GABLE	Qty 2	Ply 1	Holland Residence
Comtech, Inc., Fayetteville, NC 28309, David Landry					Job Reference (optional)

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8x16 M18AHS II

Scale = 1:65.3

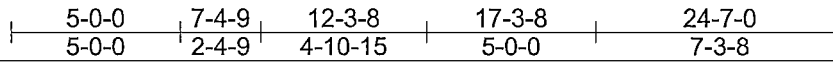
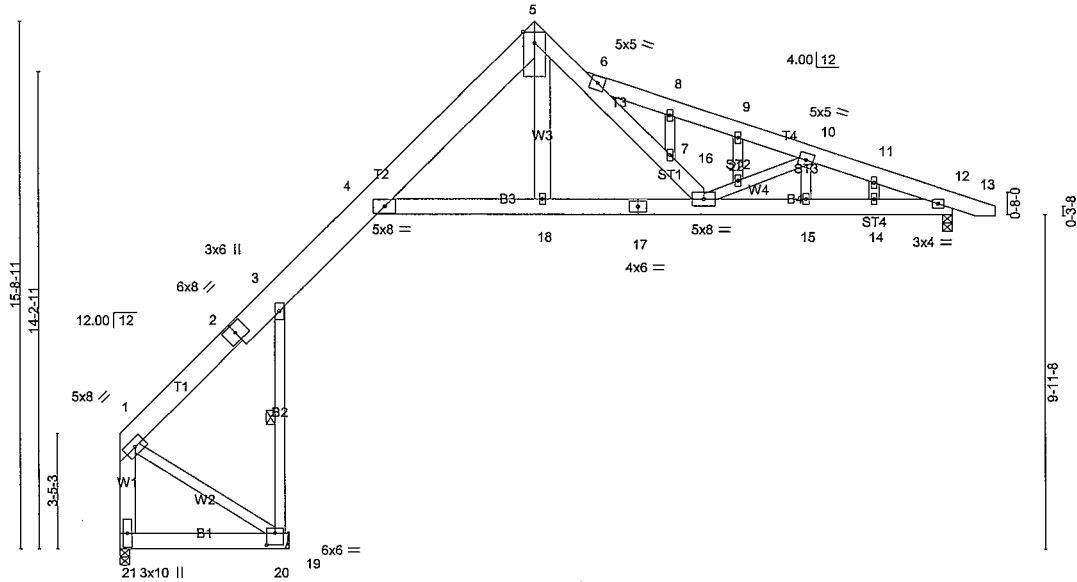


Plate Offsets (X,Y)-- [20:0-3-0,0-4-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.35	Vert(LL)	-0.07	16-18	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.24	Vert(CT)	-0.14	16-18	>999	M18AHS	186/179
BCLL 0.0 *	Lumber DOL 1.15	WB 0.17	Horz(CT)	0.11	12	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.08	4-18	>999		
	Code IRC2015/TPI2014						Weight: 210 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1 \*Except\*  
T1: 2x8 SP No.1, T2: 2x10 SP No.1  
BOT CHORD 2x6 SP No.1 \*Except\*  
B2: 2x4 SP No.2  
WEBS 2x6 SP No.1 \*Except\*  
W2,W4: 2x4 SP No.2  
OTHERS 2x4 SP No.2

**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, Except: 6-0-0 oc bracing: 20-21. 5-2-0 oc bracing: 3-20

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 21=-36/0-3-8 (min. 0-1-8), 20=1184/Mechanical, 12=803/0-3-8 (min. 0-1-8)  
Max Horz 21=426(LC 12)  
Max Uplift 21=-474(LC 10), 20=-918(LC 12), 12=-218(LC 9)  
Max Grav 21=649(LC 12), 20=1434(LC 19), 12=803(LC 1)

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

TOP CHORD 1-2=-537/528, 2-3=-500/534, 3-4=-520/162, 4-5=-936/293, 5-6=-517/197,  
6-7=-274/652, 7-16=-153/481, 6-8=-1315/511, 8-9=-1286/454, 9-10=-1293/425,  
10-11=-1482/507, 11-12=-1558/494, 1-21=-617/562  
BOT CHORD 20-21=-418/314, 3-20=-1283/664, 4-18=-86/712, 17-18=-86/722, 16-17=-86/722,  
15-16=-403/1390, 14-15=-413/1393, 12-14=-413/1393  
WEBS 1-20=-381/504, 5-18=0/288, 16-22=-258/149

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Holland Residence
J0222-1061	G2SG	GABLE	2	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

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**NOTES-**

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 21=474, 20=918, 12=218.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

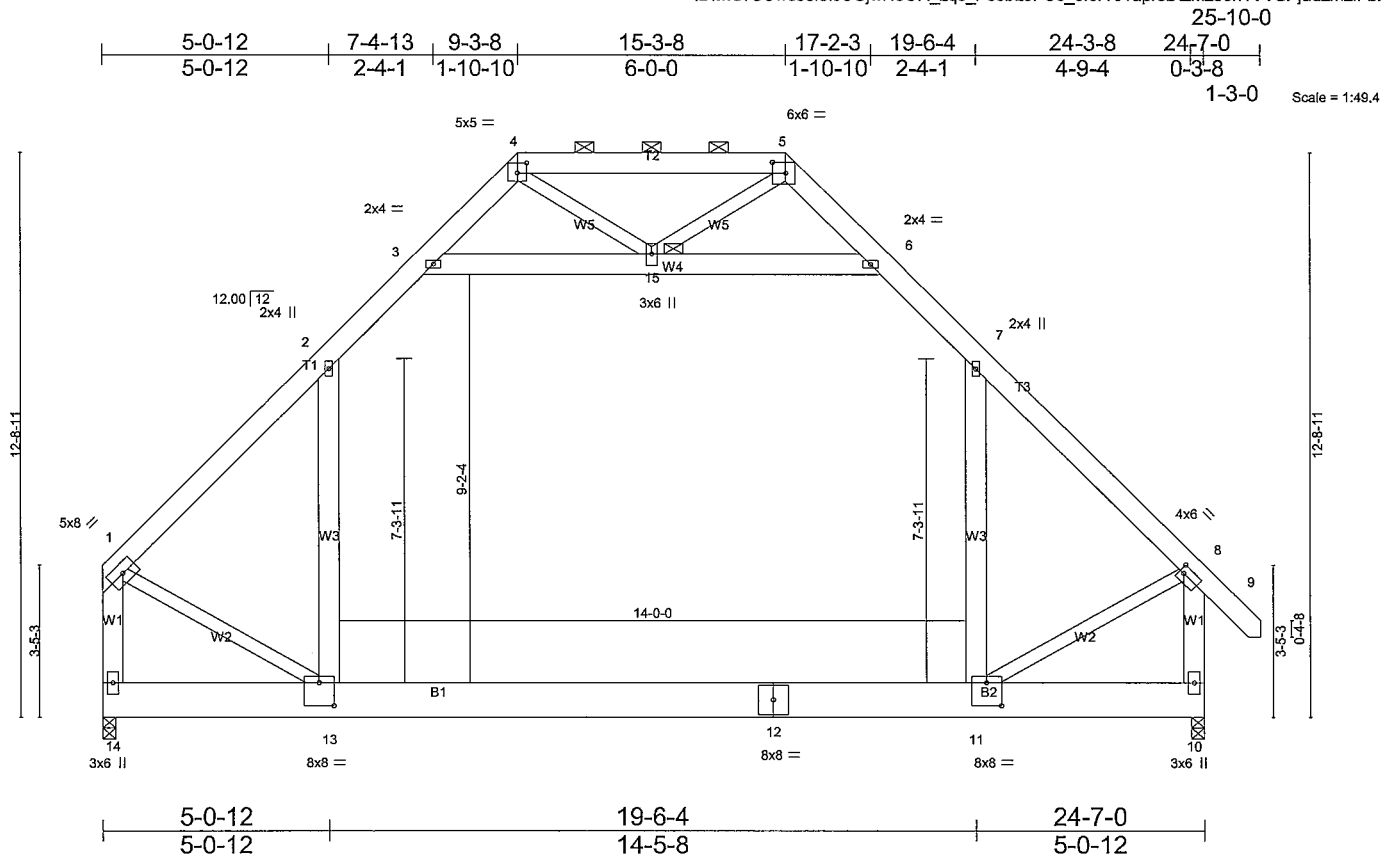
**LOAD CASE(S)** Standard

Job J0222-1061	Truss G3	Truss Type ATTIC	Qty 1	Ply 1	Holland Residence
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Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Mar 1 16:07:29 2022 Page 1  
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.65	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.87	Vert(LL) -0.27 11-13 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.30	Vert(CT) -0.43 11-13 >673 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 10 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.08 11-13 >999 240	Weight: 273 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x10 SP No.1  
 WEBS 2x6 SP No.1 \*Except\*  
 W2,W5: 2x4 SP No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-11-13 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.  
 BOT CHORD Rigid ceiling directly applied or 7-5-9 oc bracing.  
 JOINTS 1 Brace at Jt(s): 15

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 14=1330/0-3-8 (min. 0-1-15), 10=1415/0-3-8 (min. 0-2-0)  
 Max Horz 14=311(LC 11)  
 Max Grav 14=1643(LC 2), 10=1714(LC 2)

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

TOP CHORD 1-16=-1667/0, 16-17=-1513/0, 2-17=-1496/4, 2-3=-1071/198, 3-4=-410/158,  
 4-5=-281/112, 5-6=-412/152, 6-7=-1069/183, 7-18=-1512/0, 8-18=-1666/0,  
 1-14=-1918/0, 8-10=-1974/22  
 BOT CHORD 13-14=-306/332, 12-13=0/1094, 11-12=0/1094  
 WEBS 2-13=-56/679, 3-15=-1139/129, 6-15=-1136/95, 7-11=-40/699, 1-13=0/1210,  
 8-11=0/1206

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 9-3-8, Exterior(2) 9-3-8 to 21-6-3, Interior(1) 21-6-3 to 25-8-6 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s). 2-3, 6-7, 3-15, 6-15; Wall dead load (5.0psf) on member(s).2-13, 7-11
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



Job J0222-1061	Truss G3A	Truss Type ATTIC	Qty 1	Ply 1	Holland Residence
					Job Reference (optional) 25-10-0

Comtech, Inc., Fayetteville, NC 28309, David Landry

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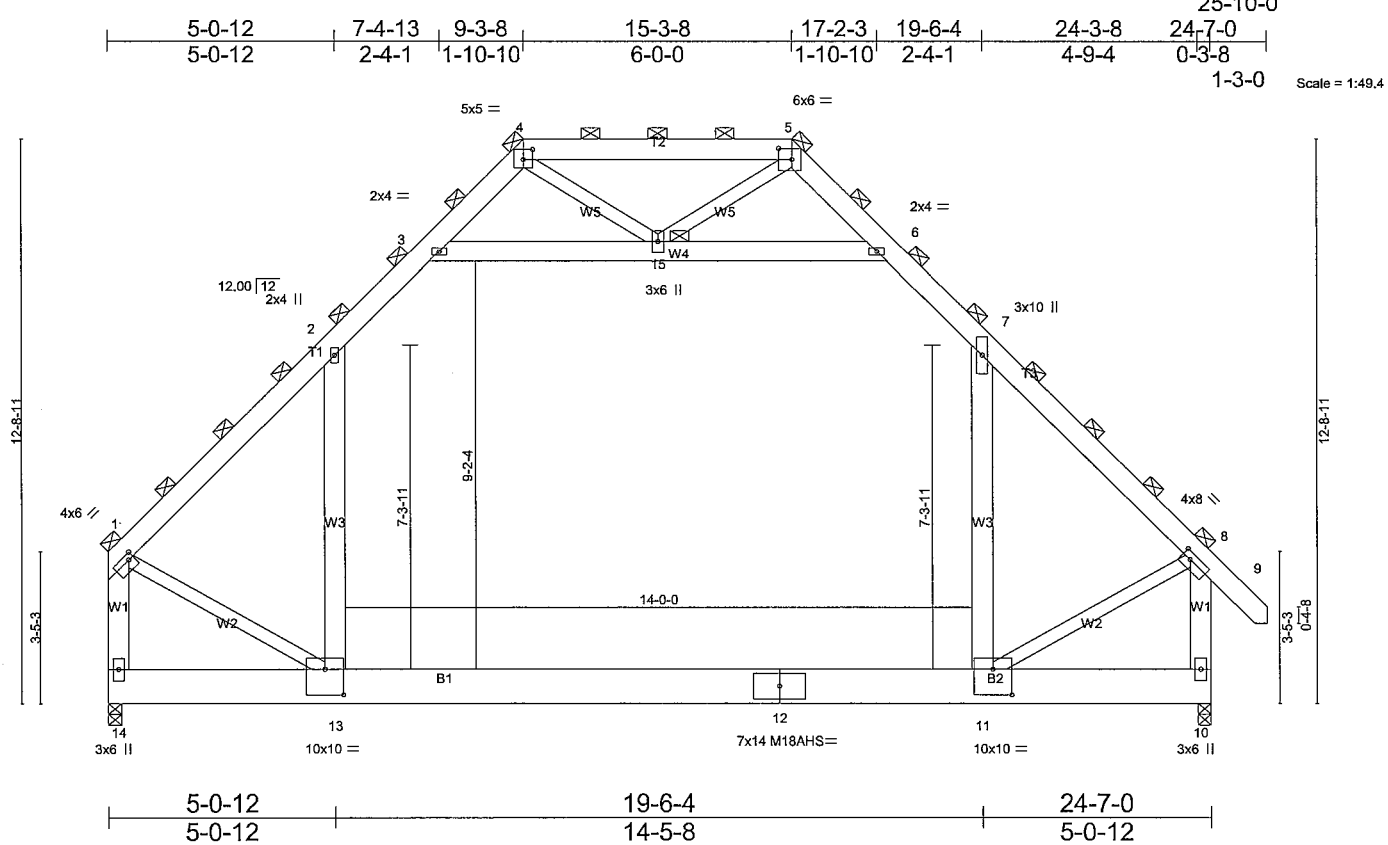


Plate Offsets (X,Y)-	[1:0-1-8,0-1-8], [4:0-2-8,0-2-12], [5:0-3-8,0-3-0], [8:0-2-8,0-1-12], [11:0-5-0,0-7-0], [13:0-5-0,0-7-0]
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LOADING (psf)	SPACING-	3-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.63	Vert(LL)	-0.34 11-13	>863	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.62	Vert(CT)	-0.53 11-13	>550	240	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.44	Horz(CT)	0.01 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.10 11-13	>999	240		
								Weight: 273 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP 2400F 2.0E *Except* T2: 2x6 SP No.1	TOP CHORD 2-0-0 oc purlins (5-9-4 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD 2x10 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1 *Except* W2,W5: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 1, 4, 5, 8, 15

**REACTIONS.** (lb/size) 14=1995/0-3-8 (min. 0-2-1), 10=2122/0-3-8 (min. 0-2-2)  
Max Horz 14=-514(LC 8)  
Max Grav 14=2465(LC 2), 10=2571(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-16=-2492/0, 16-17=-2262/0, 2-17=-2236/0, 2-3=-1604/292, 3-4=-619/234,  
4-5=-429/157, 5-6=-622/232, 6-7=-1602/287, 7-18=-2273/0, 8-18=-2504/0,  
1-14=-2870/0, 8-10=-2963/59  
BOT CHORD 13-14=-468/531, 12-13=0/1646, 11-12=0/1646  
WEBS 2-13=-87/1015, 3-15=-1695/181, 6-15=-1691/165, 7-11=-64/1041, 1-13=0/1815,  
8-11=0/1812, 4-15=-1/264, 5-15=0/262

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 9-3-8, Exterior(2) 9-3-8 to 21-6-3, Interior(1) 21-6-3 to 25-8-6 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Ceiling dead load (10.0 psf) on member(s). 2-3, 6-7, 3-15, 6-15; Wall dead load (5.0psf) on member(s).2-13, 7-11
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job J0222-1061	Truss G3GE	Truss Type GABLE	Qty 1	Ply 1	Holland Residence
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

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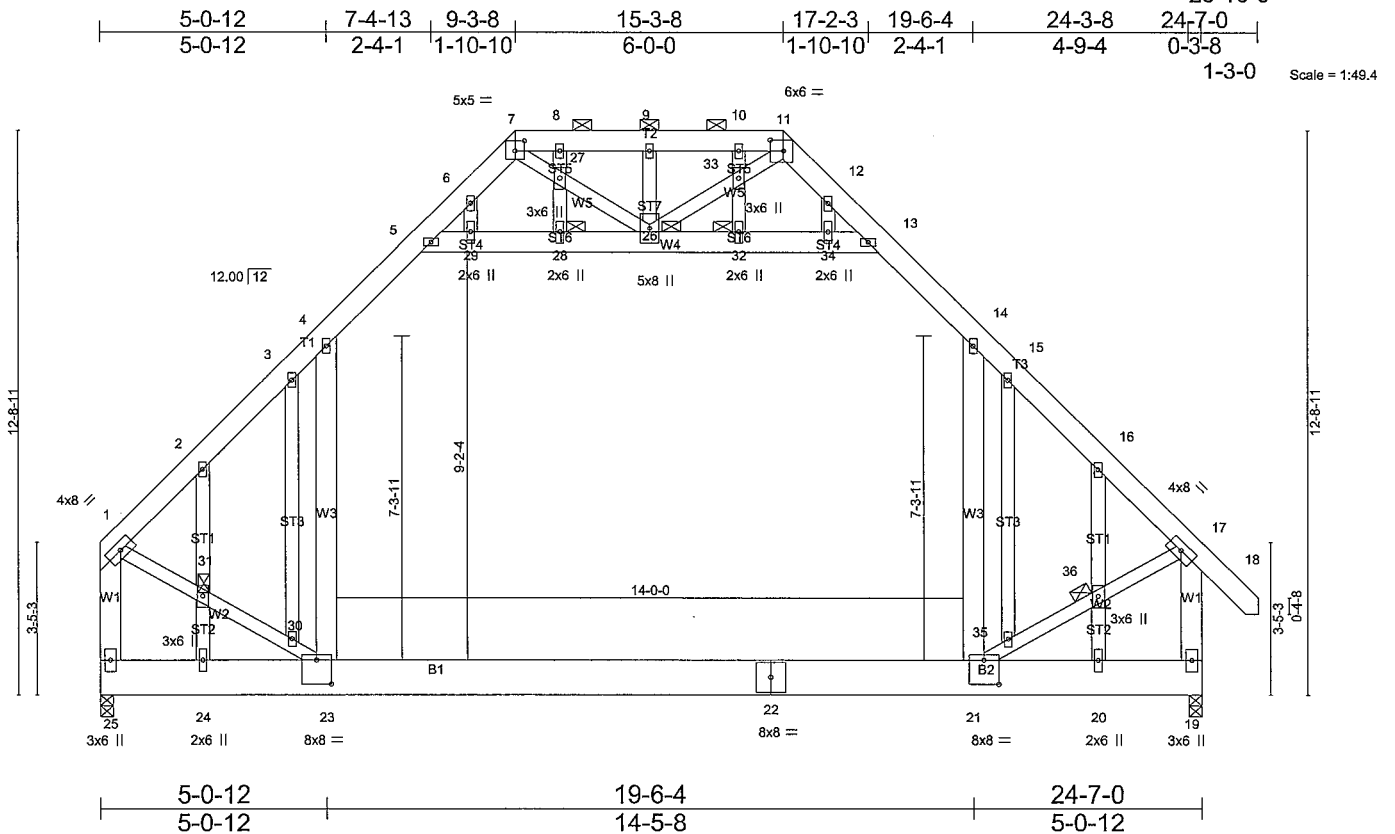


Plate Offsets (X,Y) - [7:0-2-8,0-2-12], [11:0-3-8,0-3-0], [21:0-4-0,0-6-8], [23:0-4-0,0-6-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.59	Vert(LL)	-0.24 21-23	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.80	Vert(CT)	-0.37 21-23	>780	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.73	Horz(CT)	0.01 19	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	-0.10 21-23	>999	240		
	Code IRC2015/TPI2014						Weight: 313 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x10 SP No.1  
 WEBS 2x6 SP No.1 \*Except\*  
 W2,W5: 2x4 SP No.2  
 OTHERS 2x4 SP No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-10-7 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-11.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 JOINTS 1 Brace at Jt(s): 26, 28, 31, 32, 36

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 25=1330/0-3-8 (min. 0-1-15), 19=1415/0-3-8 (min. 0-2-0)  
 Max Horz 25=-429(LC 8)  
 Max Grav 25=1643(LC 2), 19=1714(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-1451/0, 2-3=-1743/23, 3-4=-1602/80, 4-5=-1075/212, 5-6=-480/122,  
 6-7=-326/213, 7-8=-304/223, 8-9=-301/221, 9-10=-301/221, 10-11=-306/222,  
 11-12=-326/213, 12-13=-480/121, 13-14=-1075/213, 14-15=-1592/83, 15-16=-1739/21,  
 16-17=-1448/0, 1-25=-1537/0, 17-19=-1595/0  
 BOT CHORD 24-25=-415/435, 23-24=-415/435, 22-23=0/1116, 21-22=0/1116  
 WEBS 4-23=0/866, 5-29=-1113/150, 28-29=-1107/150, 26-28=-1113/155, 26-32=-1110/157,  
 32-34=-1104/152, 13-34=-1110/152, 14-21=0/865, 1-31=-1/1225, 30-31=0/1298,  
 23-30=-38/1351, 21-35=-26/1385, 35-36=0/1327, 17-36=0/1254, 6-29=-24/414,  
 2-31=-525/125, 24-31=-672/116, 12-34=-21/415, 16-36=-518/79, 20-36=-673/69

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Holland Residence
J0222-1061	G3GE	GABLE	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

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**NOTES-**

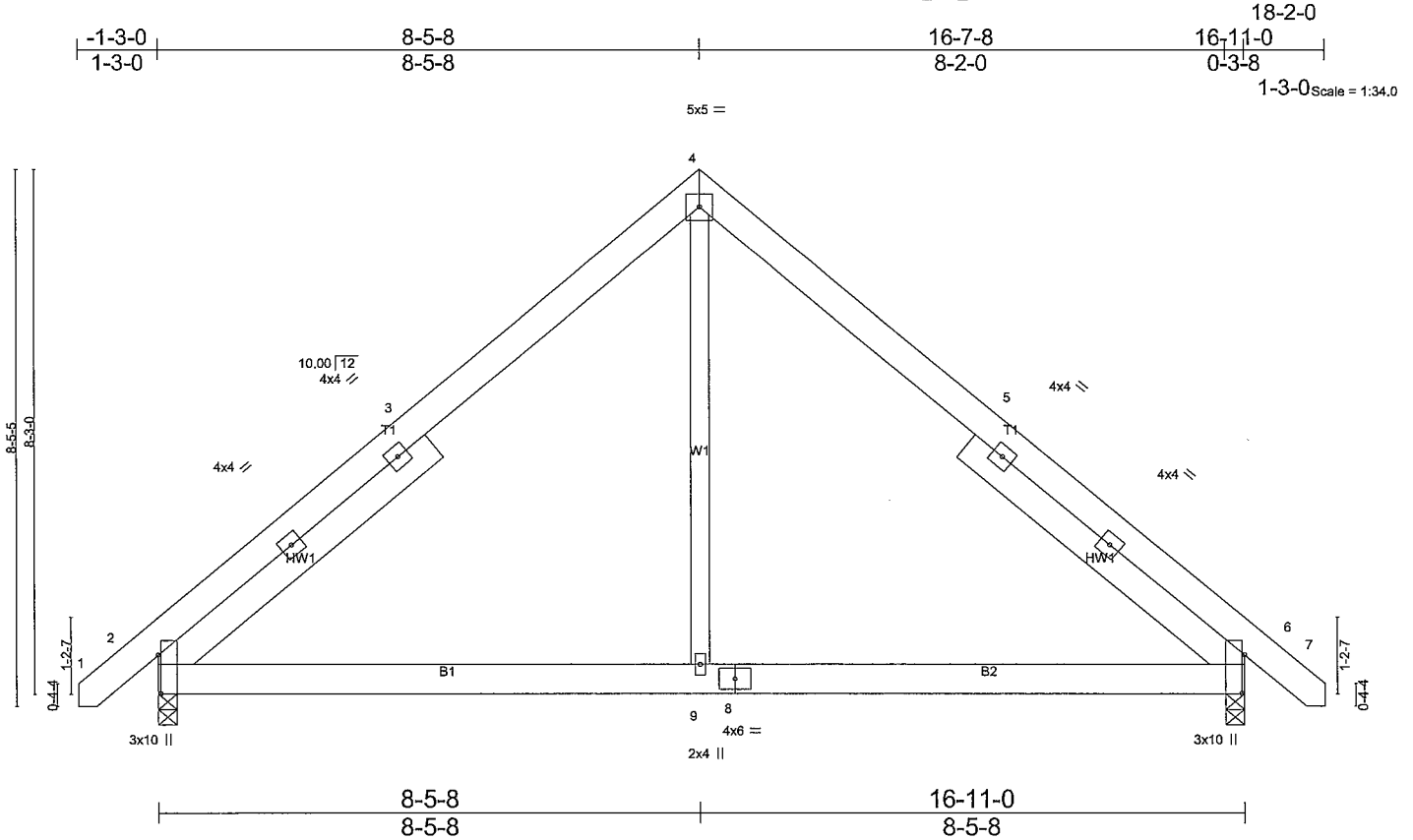
- 9) Ceiling dead load (10.0 psf) on member(s). 4-5, 13-14, 5-29, 28-29, 26-28, 26-32, 32-34, 13-34; Wall dead load (5.0psf) on member(s).4-23, 14-21
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 21-23
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

Job J0222-1061	Truss H1	Truss Type COMMON	Qty 4	Ply 1	Holland Residence
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

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LOADING (psf)		SPACING-		CSI.	DEFL.				PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.31	in (loc)	l/defl	L/d	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(LL)	-0.02 2-9	>999 360		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Vert(CT)	-0.05 2-9	>999 240		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Horz(CT)	0.01 6	n/a n/a		
						Wind(LL)	0.02 2-9	>999 240		
									Weight: 136 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2  
 SLIDER Left 2x6 SP No.1 -x 5-6-1, Right 2x6 SP No.1 -x 5-6-1

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 6=743/0-3-8 (min. 0-1-8), 2=743/0-3-8 (min. 0-1-8)  
 Max Horz 2=191(LC 11)  
 Max Uplift 6=-42(LC 13), 2=-42(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-10=-734/143, 3-10=-589/146, 3-4=-570/184, 4-5=-570/184, 5-11=-589/146,  
 6-11=-734/143  
 BOT CHORD 2-9=0/442, 8-9=0/442, 6-8=0/442  
 WEBS 4-9=0/392

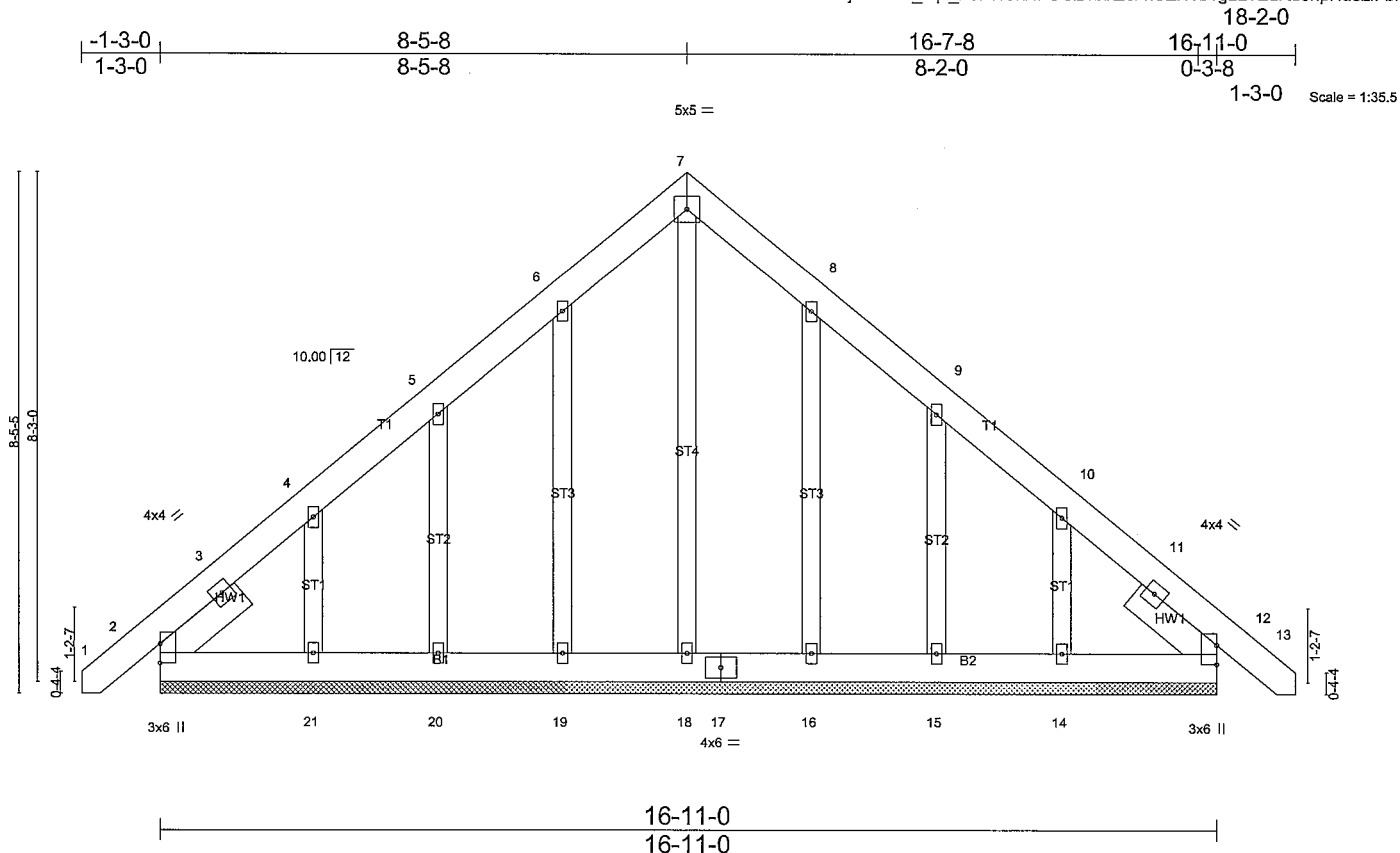
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-4 to 3-3-9, Interior(1) 3-3-9 to 8-5-8, Exterior(2) 8-5-8 to 12-10-5, Interior(1) 12-10-5 to 18-0-4 zone; C/C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job J0222-1061	Truss H1GE	Truss Type GABLE	Qty 1	Ply 1	Holland Residence
Comtech, Inc., Fayetteville, NC 28309, David Landry					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

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<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.04	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(LL) -0.00 12 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.16	Vert(CT) -0.00 12 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 12 n/a n/a		
	Code IRC2015/TPI2014			Weight: 154 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
OTHERS 2x4 SP No.2  
SLIDER Left 2x6 SP No.1 -x 1-7-11, Right 2x6 SP No.1 -x 1-7-11

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 16-11-0.  
(lb) - Max Horz 2=239(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 12, 2, 19, 16 except 20=-101(LC 12),  
21=-207(LC 12), 15=-105(LC 13), 14=-196(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 12, 2, 18, 19, 20, 21, 16, 15, 14

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

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 2, 19, 16 except (jt=lb) 20=101, 21=207, 15=105, 14=196.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

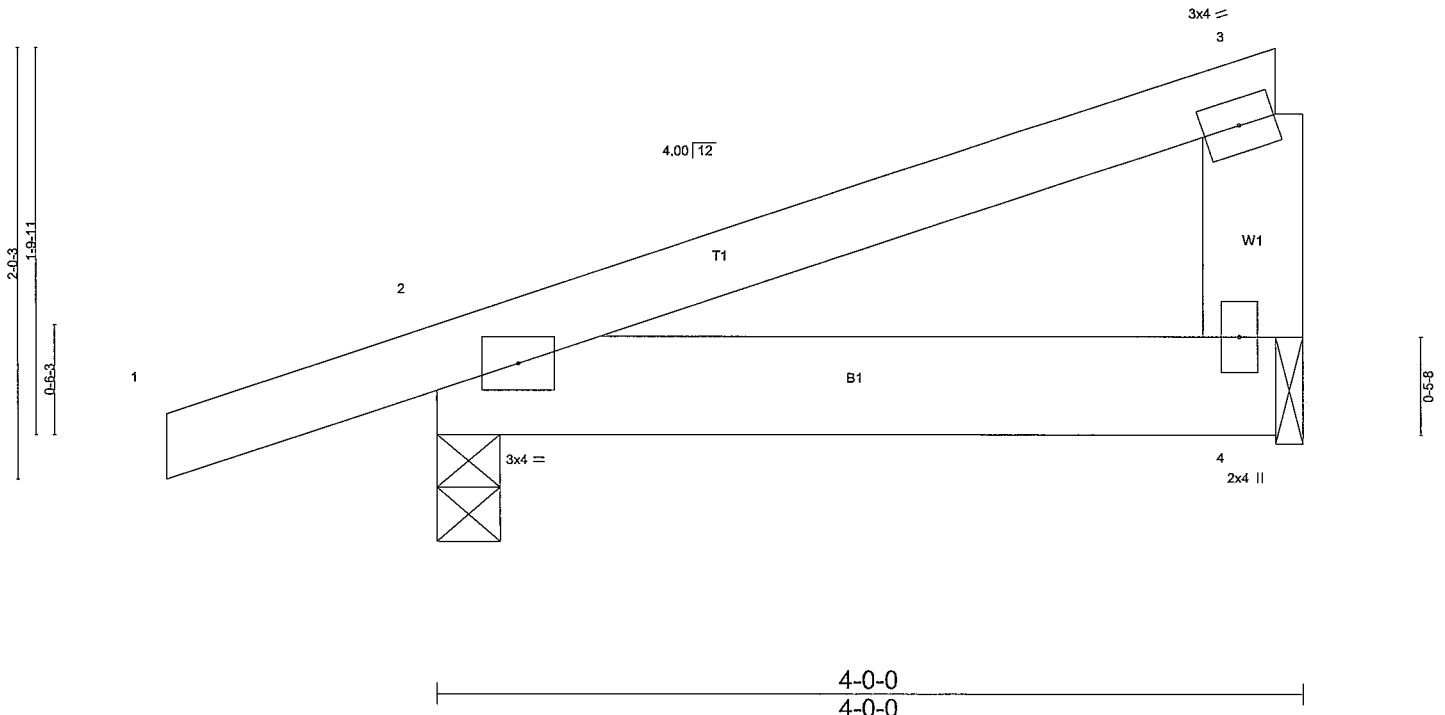
**LOAD CASE(S)** Standard

Job J0222-1061	Truss J1	Truss Type JACK-CLOSED	Qty 8	Ply 1	Holland Residence
Comtech, Inc., Fayetteville, NC 28309, David Landry					Job Reference (optional)

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Scale = 1:10.2



<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc)	<b>I/defl</b>	<b>L/d</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.13	Vert(LL) -0.00 2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) -0.00 2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.01	Horz(CT) 0.00	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.00 2	****	240		
						Weight: 20 lb	FT = 20%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=245/0-3-8 (min. 0-1-8), 4=129/0-1-8 (min. 0-1-8)  
 Max Horz 2=59(LC 8)  
 Max Uplift 2=-68(LC 8), 4=-20(LC 12)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-3-0 to 3-1-13, Interior(1) 3-1-13 to 3-9-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

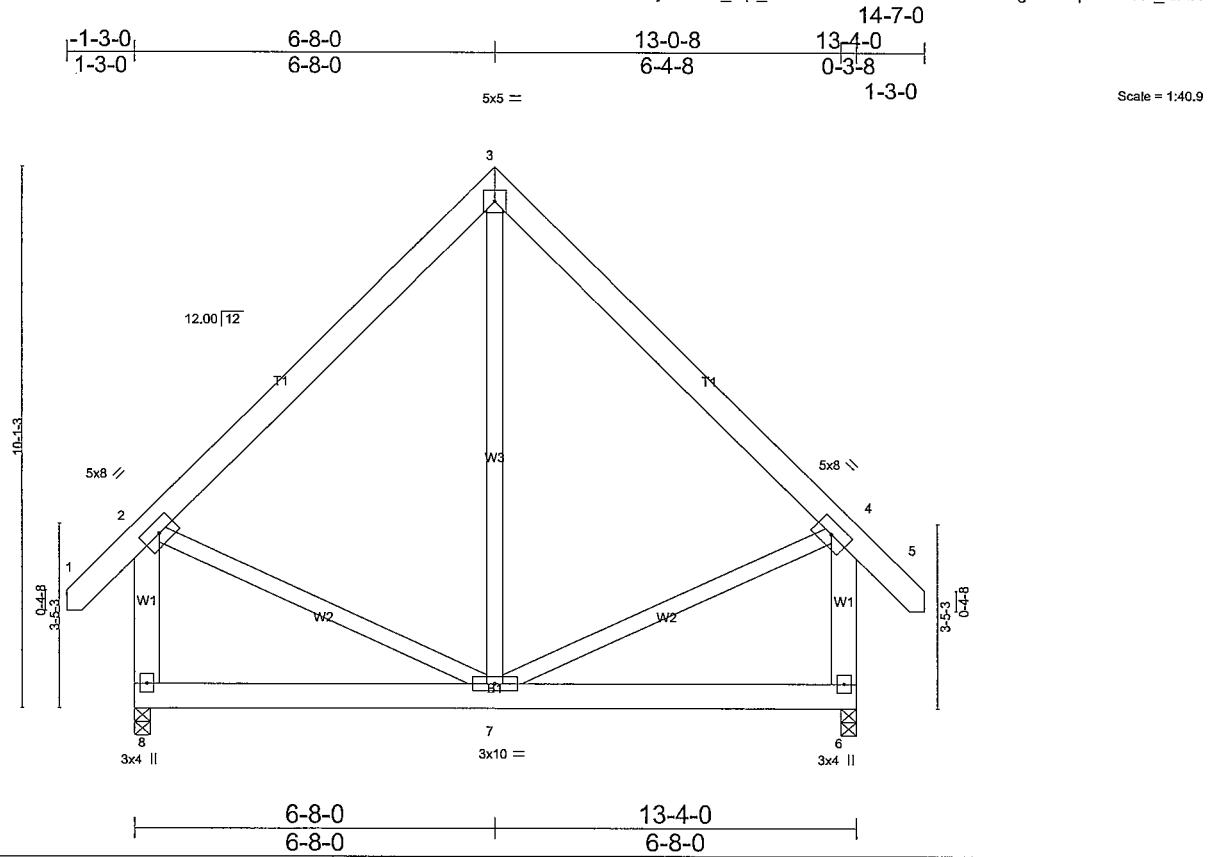
**LOAD CASE(S)** Standard

Job J0222-1061	Truss K1	Truss Type COMMON	Qty 3	Ply 1	Holland Residence
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Comtech, Inc., Fayetteville, NC 28309, David Landry

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.18	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) -0.01 6-7 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Vert(CT) -0.02 6-7 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 6 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.00 7 >999 240		
				Weight: 131 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* W1: 2x6 SP No.1	

**REACTIONS.** (lb/size) 8=596/0-3-8 (min. 0-1-8), 6=596/0-3-8 (min. 0-1-8)  
 Max Horz 8=-295(LC 10)  
 Max Uplift 8=-30(LC 13), 6=-30(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-9=-410/169, 9-10=-346/177, 3-10=-342/206, 3-11=-342/206, 11-12=-346/177,  
 4-12=-410/169, 2-8=-537/258, 4-6=-537/259  
 BOT CHORD 7-8=-274/311

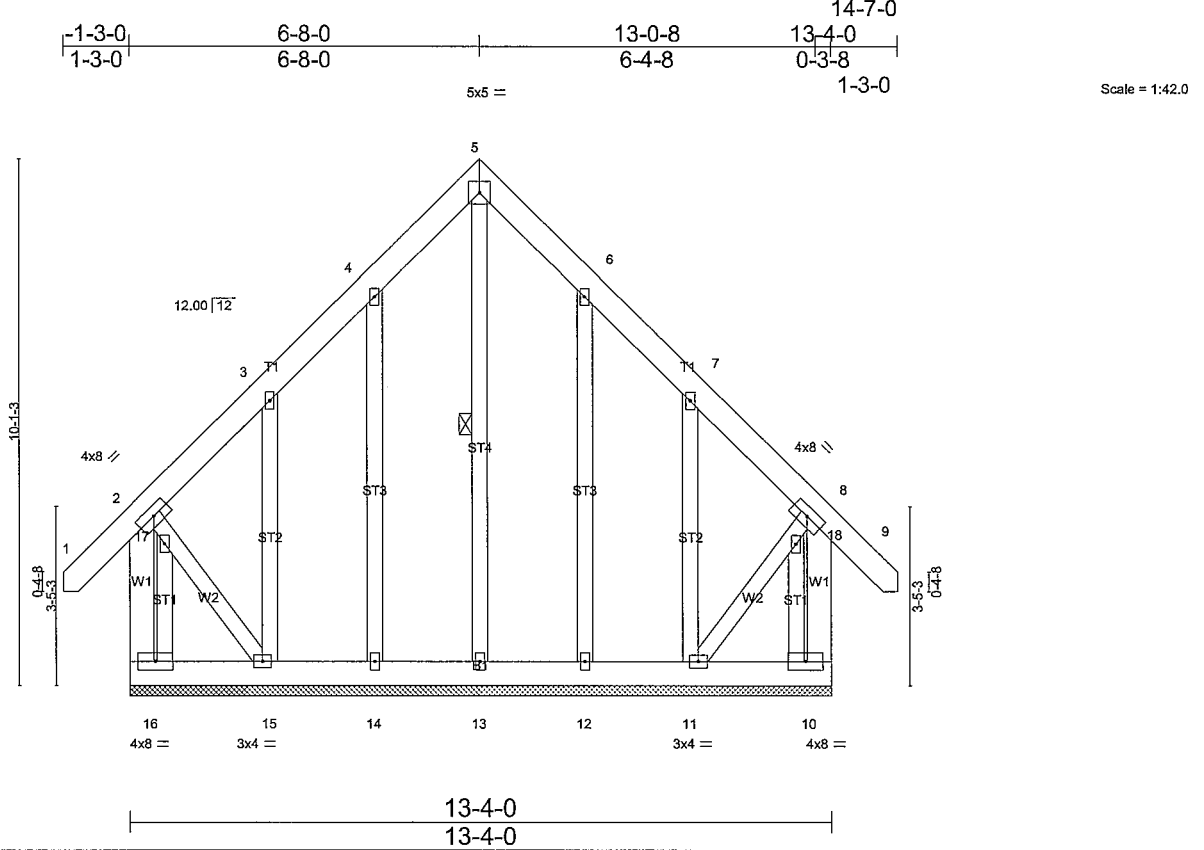
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-6 to 3-3-7, Interior(1) 3-3-7 to 6-8-0, Exterior(2) 6-8-0 to 11-0-13, Interior(1) 11-0-13 to 14-5-6 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job J0222-1061	Truss K1GE	Truss Type GABLE	Qty 2	Ply 1	Holland Residence
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Comtech, Inc., Fayetteville, NC 28309, David Landry

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<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.06	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) -0.00 9 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.15	Vert(CT) -0.00 9 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 10 n/a n/a		
	Code IRC2015/TPI2014			Weight: 165 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x6 SP No.1 *Except*	WEBS 1 Row at midpt 5-13
W2: 2x4 SP No.2	
OTHERS 2x4 SP No.2	

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer installation guide.

**REACTIONS.** All bearings 13-4-0.  
(lb) - Max Horz 16=-369(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) except 16=-203(LC 10), 10=-160(LC 11), 14=-109(LC 12), 15=-382(LC 12), 12=-109(LC 13), 11=-380(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 13, 14, 12 except 16=370(LC 20), 10=338(LC 19), 15=390(LC 10), 11=366(LC 11)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-16=-272/145  
BOT CHORD 15-16=-349/314, 14-15=-235/269, 13-14=-235/269, 12-13=-235/269, 11-12=-235/269  
WEBS 3-15=-253/184, 7-11=-252/184, 2-17=-241/274, 15-17=-298/340, 11-18=-276/327, 8-18=-225/264

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 203 lb uplift at joint 16, 160 lb uplift at joint 10, 109 lb uplift at joint 14, 382 lb uplift at joint 15, 109 lb uplift at joint 12 and 380 lb uplift at joint 11.

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
J0222-1061	K1GE	GABLE	2	1	Holland Residence

Comtech, Inc., Fayetteville, NC 28309, David Landry

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**NOTES-**

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

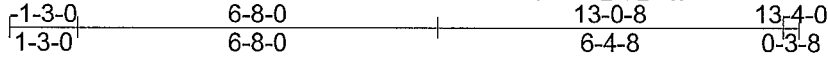
**LOAD CASE(S)** Standard

Job J0222-1061	Truss K2	Truss Type COMMON	Qty 5	Ply 1	Holland Residence
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Job Reference (optional)

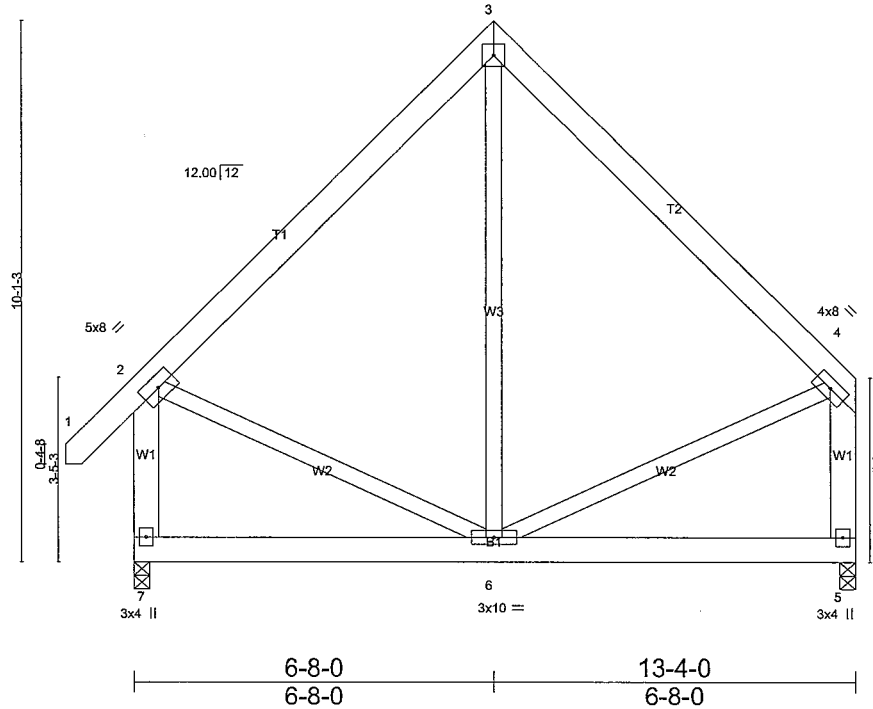
Comtech, Inc., Fayetteville, NC 28309, David Landry

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5x5 =

Scale = 1:40.9



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.20	in (loc) l/defl L/d	MT20	244/190
TCCL 10.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) -0.01 5-6 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Vert(CT) -0.02 5-6 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.00 5 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.00 6 >999 240		
				Weight: 127 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.2 \*Except\*  
W1: 2x6 SP No.1

**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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 7=600/0-3-8 (min. 0-1-8), 5=511/0-3-8 (min. 0-1-8)  
Max Horz 7=284(LC 9)  
Max Uplift 7=-25(LC 13), 5=-31(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-8=-414/163, 8-9=-353/171, 3-9=-350/200, 3-10=-322/183, 10-11=-340/155,  
4-11=-407/146, 2-7=-541/252, 4-5=-469/197  
BOT CHORD 6-7=-276/280

**NOTES-**

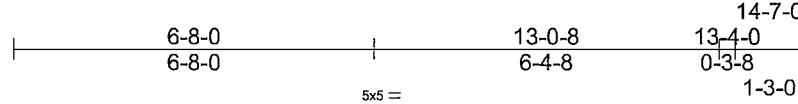
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-6 to 3-3-7, Interior(1) 3-3-7 to 6-8-0, Exterior(2) 6-8-0 to 11-0-13, Interior(1) 11-0-13 to 13-1-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 7 and 31 lb uplift at joint 5.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job J0222-1061	Truss K2A-GR	Truss Type COMMON GIRDER	Qty 1	Ply 2	Holland Residence
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Comtech, Inc., Fayetteville, NC 28309, David Landry

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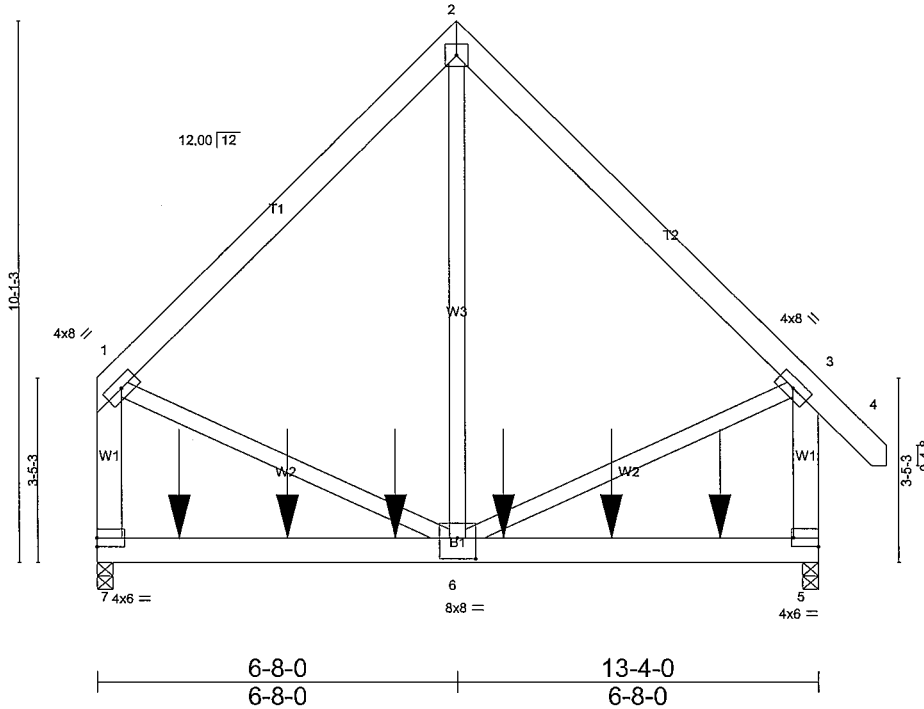


Plate Offsets (X,Y)=[5:Edge,0-2-0], [6:0-4-0,0-4-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	-0.05	6-7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.56	Vert(CT)	-0.11	6-7	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.35	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.04	6-7	>999		
								Weight: 254 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP 2400F 2.0E  
 WEBS 2x4 SP No.2 \*Except\*  
 W1: 2x6 SP No.1

**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) 7=3770/0-3-8 (min. 0-1-9), 5=3715/0-3-8 (min. 0-1-9)  
 Max Horz 7=-284(LC 4)  
 Max Uplift 7=-152(LC 9), 5=-140(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-2395/184, 2-3=-2405/185, 1-7=-2439/136, 3-5=-2532/130  
 BOT CHORD 7-8=-264/416, 8-9=-264/416, 9-10=-264/416, 6-10=-264/416, 6-11=-58/262,  
 11-12=-58/262, 12-13=-58/262, 5-13=-58/262  
 WEBS 2-6=-99/2863, 1-6=-120/1489, 3-6=-143/1485

**NOTES-**

- 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: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 152 lb uplift at joint 7 and 140 lb uplift at joint 5.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job J0222-1061	Truss K2A-GR	Truss Type COMMON GIRDER	Qty 1	Ply <b>2</b>	Holland Residence Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, David Landry

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**NOTES-**

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1062 lb down and 47 lb up at 1-6-4, 1062 lb down and 47 lb up at 3-6-4, 1062 lb down and 47 lb up at 5-6-4, 1062 lb down and 47 lb up at 7-6-4, and 1062 lb down and 47 lb up at 9-6-4, and 1062 lb down and 48 lb up at 11-6-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S) Standard**

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-7=-20

Concentrated Loads (lb)

Vert: 8=-1062(B) 9=-1062(B) 10=-1062(B) 11=-1062(B) 12=-1062(B) 13=-1062(B)

Job J0222-1061	Truss K2-GR	Truss Type COMMON GIRDER	Qty 1	Ply 2	Holland Residence
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

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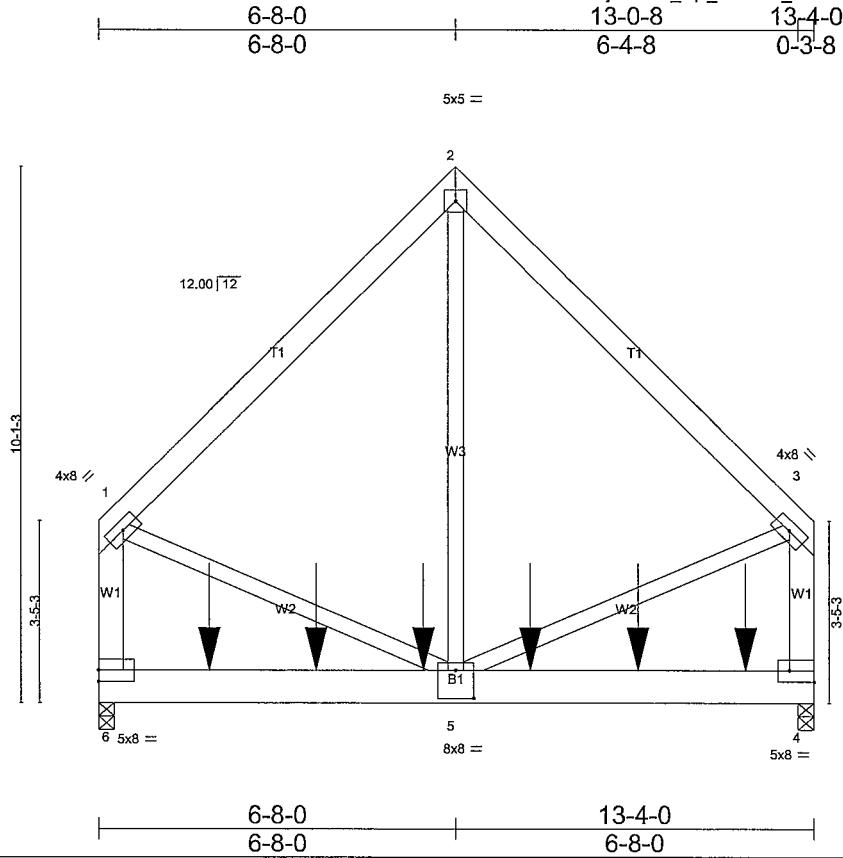


Plate Offsets (X,Y)-- [4:Edge,0-2-8], [5:0-4-0,0-6-4]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.28	Vert(LL)	-0.05	5-6	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.69	Vert(CT)	-0.09	5-6	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.41	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Wind(LL)	0.03	4-5	>999		
	Code IRC2015/TPI2014						Weight: 265 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x8 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 W1: 2x6 SP No.1

**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) 6=3705/0-3-8 (min. 0-2-7), 4=3625/0-3-8 (min. 0-2-6)  
 Max Horz 6=154(LC 5)  
 Max Uplift 6=-242(LC 9), 4=-358(LC 8)  
 Max Grav 6=4109(LC 2), 4=3995(LC 2)

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

TOP CHORD 1-2=-2701/261, 2-3=-2700/261, 1-6=-2734/228, 3-4=-2762/220  
 BOT CHORD 6-7=-180/364, 7-8=-180/364, 8-9=-180/364, 5-9=-180/364  
 WEBS 2-5=-197/3364, 1-5=-160/1741, 3-5=-140/1811

**NOTES-**

- 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.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 242 lb uplift at joint 6 and 358 lb uplift at joint 4.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job J0222-1061	Truss K2-GR	Truss Type COMMON GIRDER	Qty 1	Ply <b>2</b>	Holland Residence Job Reference (optional)
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Comtech, Inc., Fayetteville, NC 28309, David Landry

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**NOTES-**

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1350 lb down and 69 lb up at 2-0-12, 1350 lb down and 69 lb up at 4-0-12, 1350 lb down and 69 lb up at 6-0-12, 1350 lb down and 69 lb up at 8-0-12, and 905 lb down and 211 lb up at 10-0-12, and 899 lb down and 91 lb up at 12-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 4-6=-20

Concentrated Loads (lb)

Vert: 7=-1175(B) 8=-1175(B) 9=-1175(B) 10=-1175(B) 11=-801 12=-798

Job J0222-1061	Truss L1	Truss Type COMMON	Qty 1	Ply 1	Holland Residence
Comtech, Inc., Fayetteville, NC 28309, David Landry					Job Reference (optional)

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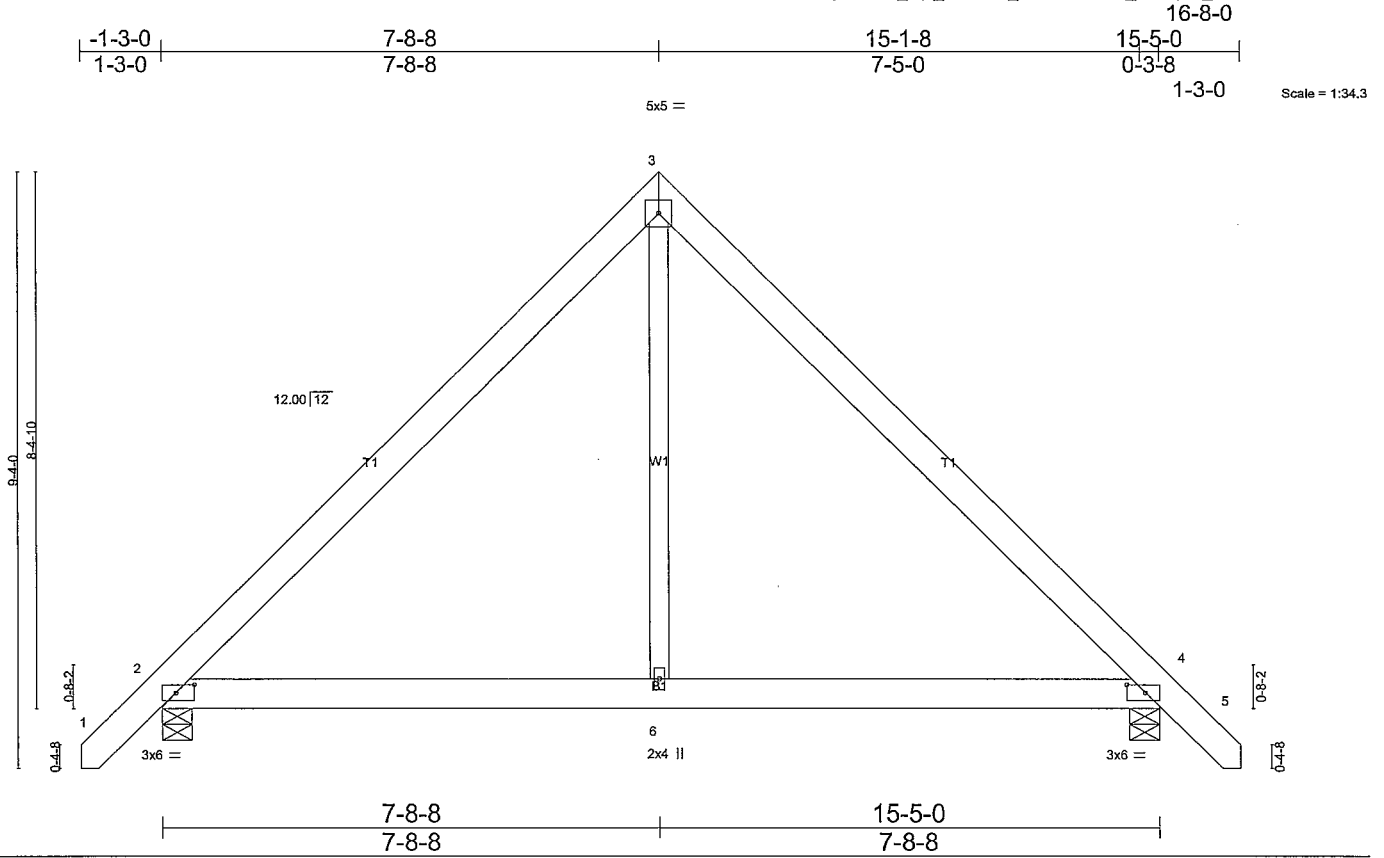


Plate Offsets (X,Y)-- [2:0-3-7,0-1-8], [4:0-3-7,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.29	Vert(LL) -0.03	4-6	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.28	Vert(CT) -0.05	4-6	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.13	Horz(CT) 0.01	4	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) 0.02	2-6	>999	240		
	Code IRC2015/TPI2014						Weight: 107 lb	FT = 20%

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=679/0-5-8 (min. 0-1-8), 4=679/0-5-8 (min. 0-1-8)  
Max Horz 2=-211(LC 10)  
Max Uplift 2=-37(LC 12), 4=-37(LC 13)  
Max Grav 2=782(LC 19), 4=782(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-7=-810/133, 3-7=-693/171, 3-8=-692/171, 4-8=-809/133  
BOT CHORD 2-9=0/514, 6-9=0/514, 6-10=0/514, 4-10=0/514  
WEBS 3-6=0/581

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-6 to 3-3-7, Interior(1) 3-3-7 to 7-8-8, Exterior(2) 7-8-8 to 12-1-5, Interior(1) 12-1-5 to 16-6-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 2 and 37 lb uplift at joint 4.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

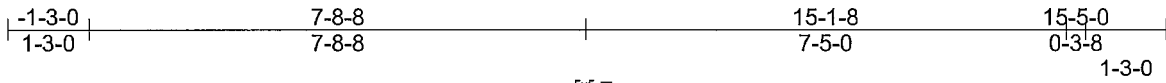
**LOAD CASE(S)** Standard

Job J0222-1061	Truss L1GE	Truss Type GABLE	Qty 1	Ply 1	Holland Residence
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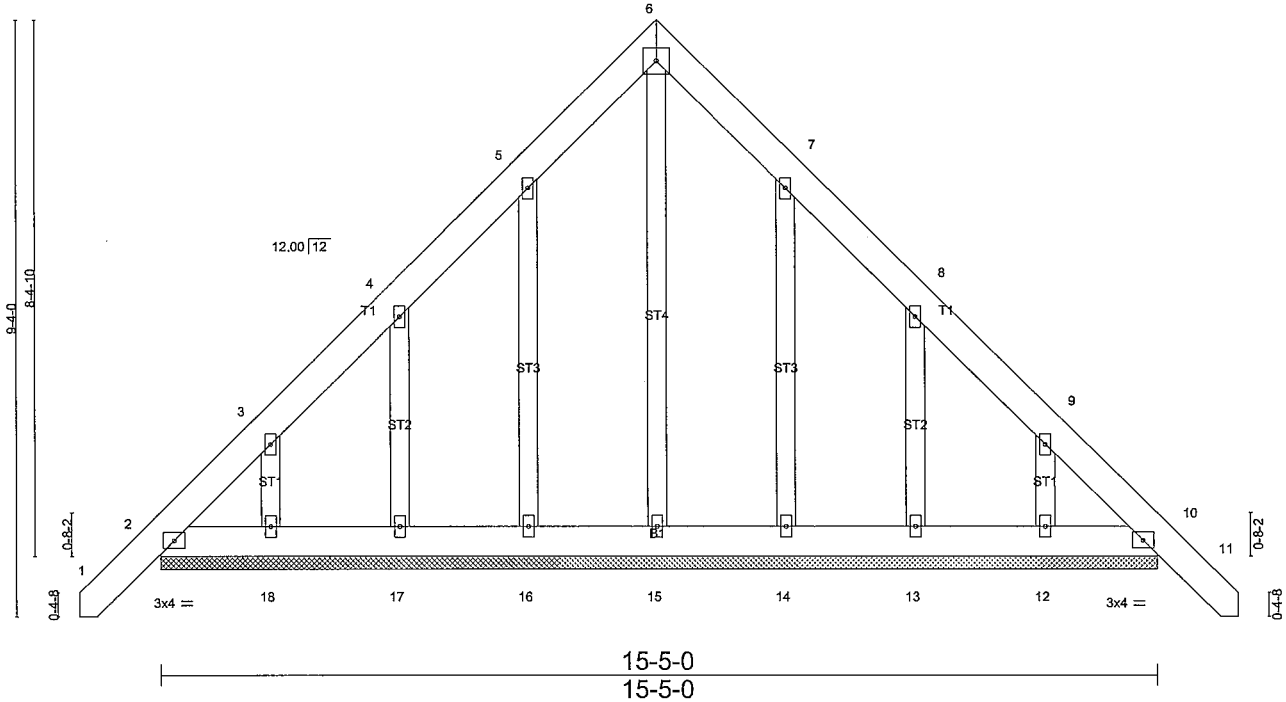
Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

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Scale = 1:34.3



<b>LOADING (psf)</b>	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.03	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(LL) -0.00 10 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.15	Vert(CT) -0.00 11 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 10 n/a n/a		
	Code IRC2015/TPI2014			Weight: 138 lb	FT = 20%

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 15-5-0.  
(lb) - Max Horz 2=-264(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 10 except 16=-120(LC 12),  
17=-154(LC 12), 18=-127(LC 12), 14=-115(LC 13), 13=-156(LC 13), 12=-125(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 15, 16, 17, 18, 14, 13, 12

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-293/182, 9-10=-256/187  
BOT CHORD 2-18=-166/258, 17-18=-167/258, 16-17=-168/259, 15-16=-169/259, 14-15=-169/259,  
13-14=-168/259, 12-13=-167/258, 10-12=-166/257

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10 except (jt=lb) 16=120, 17=154, 18=127, 14=115, 13=156, 12=125.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



Job J0222-1061	Truss L1-GR	Truss Type COMMON	Qty 1	Ply 2	Holland Residence
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Comtech, Inc., Fayetteville, NC 28309, David Landry

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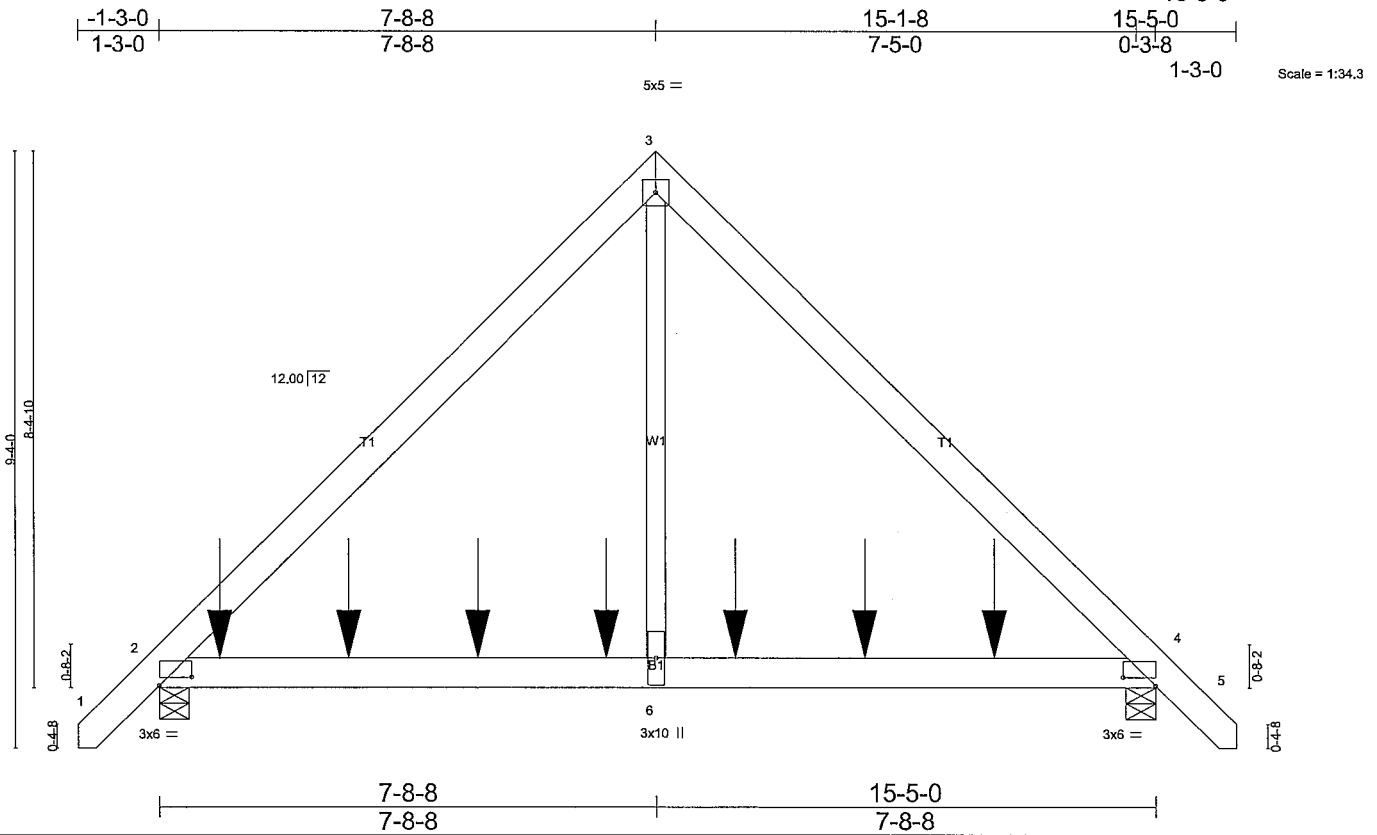


Plate Offsets (X,Y)-- [2:0-6-0,0-1-9], [4:0-6-0,0-1-9]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.27	Vert(LL)	-0.07	2-6	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.78	Vert(CT)	-0.14	2-6	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.30	Horz(CT)	0.01	4	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Wind(LL)	0.07	2-6	>999		
	Code IRC2015/TPI2014						Weight: 215 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.** (lb/size) 2=2687/0-5-8 (min. 0-1-9), 4=2310/0-5-8 (min. 0-1-8)  
Max Horz 2=-212(LC 25)  
Max Uplift 2=-398(LC 8), 4=-332(LC 9)

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

TOP CHORD 2-3=-2190/382, 3-4=-2196/382  
BOT CHORD 2-7=-189/1456, 7-8=-189/1456, 8-9=-189/1456, 9-10=-189/1456, 10-11=-189/1456,  
6-11=-189/1456, 6-12=-189/1456, 12-13=-189/1456, 13-14=-189/1456, 14-15=-189/1456,  
4-15=-189/1456  
WEBS 3-6=-344/2476

**NOTES-**

- 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: 2x6 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=398, 4=332.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Holland Residence
J0222-1061	L1-GR	COMMON	1	2	Job Reference (optional)

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**NOTES-**

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 522 lb down and 99 lb up at 0-11-4, 519 lb down and 102 lb up at 2-11-4, 519 lb down and 102 lb up at 4-11-4, 519 lb down and 102 lb up at 6-11-4, 519 lb down and 102 lb up at 8-11-4, and 519 lb down and 102 lb up at 10-11-4, and 519 lb down and 102 lb up at 12-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 2-4=-20

Concentrated Loads (lb)

Vert: 7=-522(B) 8=-519(B) 10=-519(B) 11=-519(B) 12=-519(B) 13=-519(B) 15=-519(B)

Job J0222-1061	Truss M1	Truss Type MONOPITCH	Qty 8	Ply 1	Holland Residence
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Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

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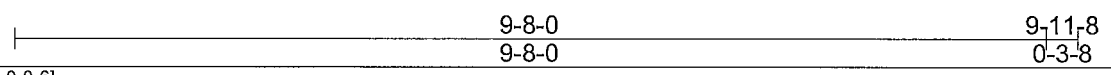
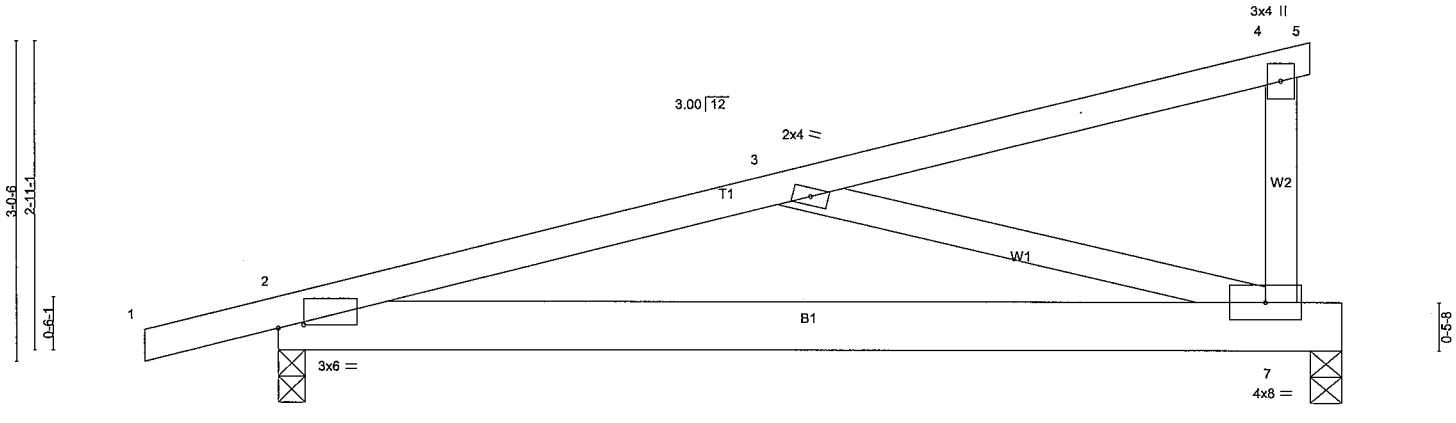


Plate Offsets (X,Y) = [2:0-2-14,0-0-6]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.44	Vert(LL)	-0.08	2-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.33	Vert(CT)	-0.17	2-7	>688	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.22	Horz(CT)	0.01	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.19	2-7	>613	240		
									Weight: 50 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 8-11-13 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=475/0-3-0 (min. 0-1-8), 6=362/0-3-8 (min. 0-1-8)  
Max Horz 2=91(LC 8)  
Max Uplift 2=-192(LC 8), 6=-152(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-8=-681/434, 3-8=-614/447  
BOT CHORD 2-7=-532/625  
WEBS 3-7=-568/426

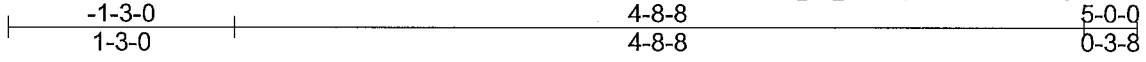
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-3-0 to 3-1-13, Interior(1) 3-1-13 to 9-8-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=192, 6=152.
  - 5) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job J0222-1061	Truss M2	Truss Type MONOPITCH	Qty 8	Ply 1	Holland Residence
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Comtech, Inc., Fayetteville, NC 28309, David Landry

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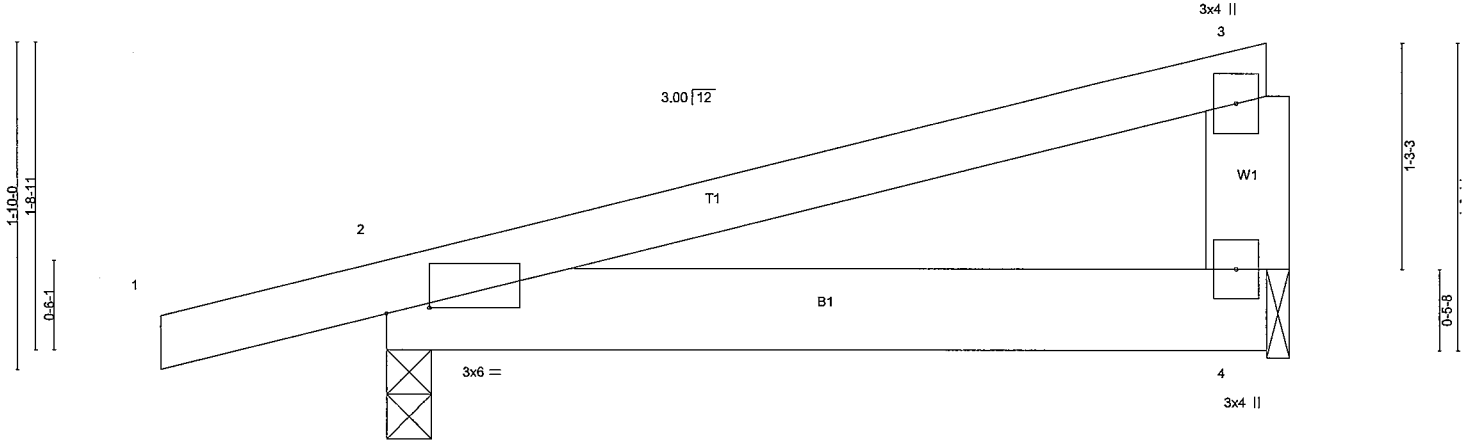


Plate Offsets (X,Y) [2:0-2-14,0-0-6]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.25	Vert(LL)	-0.01	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	-0.01	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P	Wind(LL)	0.01	2-4	>999	240		
									Weight: 23 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=281/0-3-0 (min. 0-1-8), 4=174/0-1-8 (min. 0-1-8)  
Max Horz 2=52(LC 8)  
Max Uplift 2=-123(LC 8), 4=-70(LC 8)

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

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-3-0 to 3-1-13, Interior(1) 3-1-13 to 4-9-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=123.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

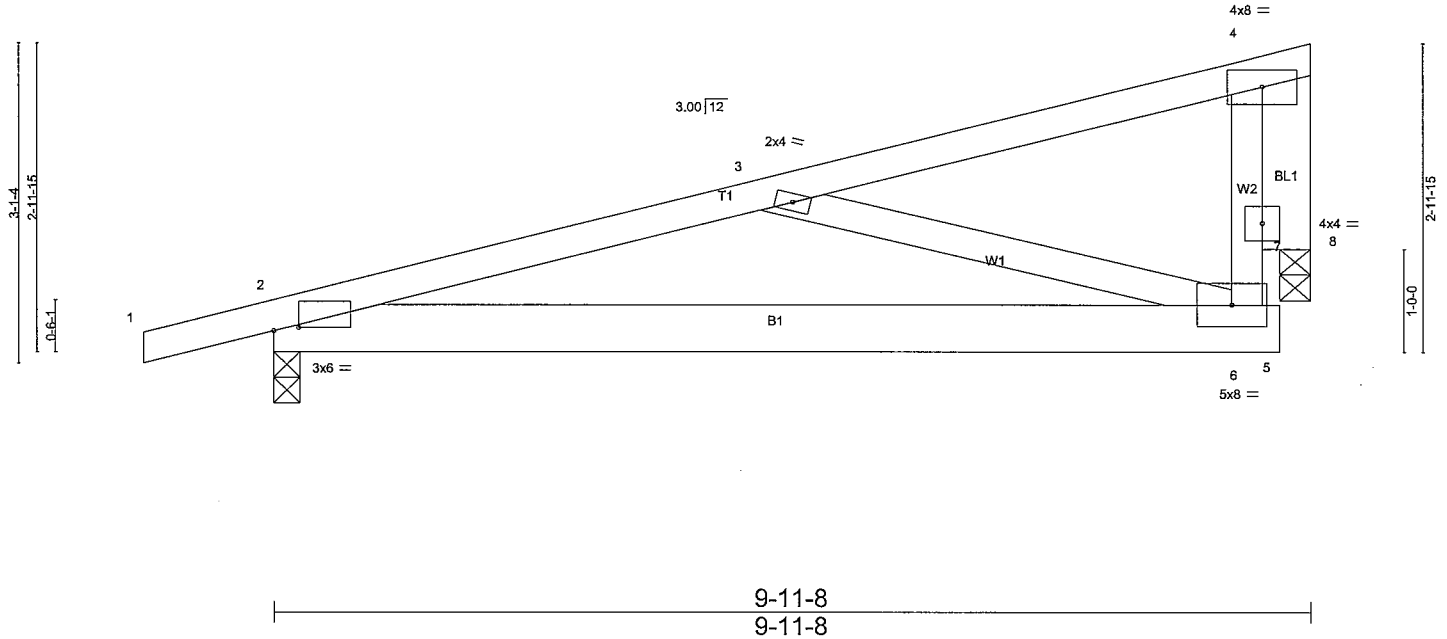
Job J0222-1061	Truss M3	Truss Type MONOPITCH	Qty 5	Ply 1	Holland Residence
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Comtech, Inc., Fayetteville, NC 28309, David Landry

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LOADING (psf)		SPACING-		CSL		DEFL.				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.06	2-6	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.13	2-6	>924	240	Weight: 54 lb FT = 20%		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(CT)	-0.01	8	n/a	n/a			
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	-0.00	2-6	>999	240			

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	
OTHERS	2x6 SP No.1		

**REACTIONS.** (lb/size) 2=475/0-3-0 (min. 0-1-8), 8=352/0-3-8 (min. 0-1-8)  
Max Horz 2=89(LC 8)  
Max Uplift 2=-85(LC 8), 8=-43(LC 12)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-9=-724/212, 3-9=-657/226, 6-7=-18/266, 4-7=-18/266  
BOT CHORD 2-6=-283/664  
WEBS 3-6=-554/286, 4-8=-372/84

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-3-0 to 3-1-13, Interior(1) 3-1-13 to 9-4-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 4) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job J0222-1061	Truss PB1	Truss Type PIGGYBACK	Qty 12	Ply 1	Holland Residence
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

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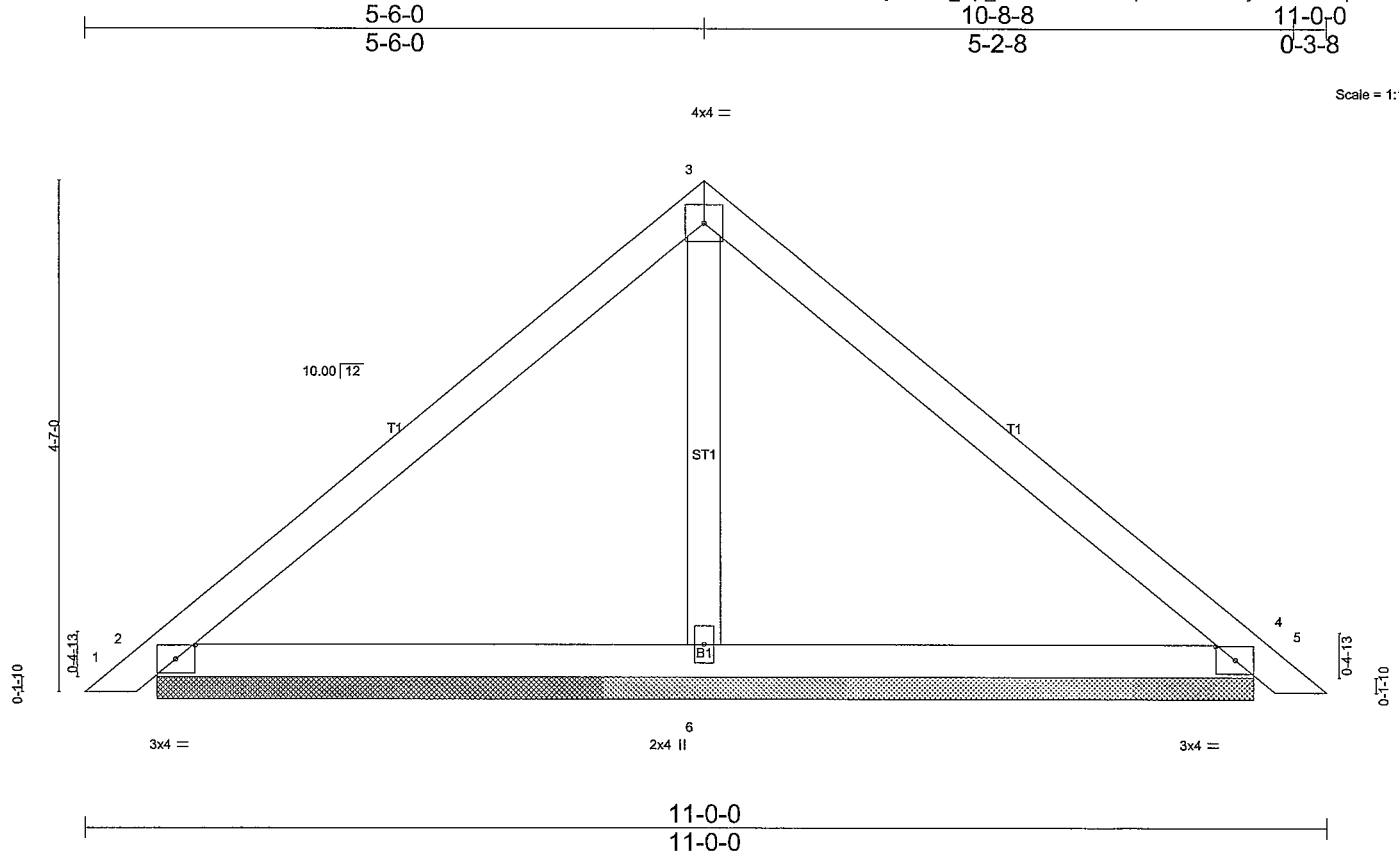


Plate Offsets (X,Y)-- [2:0-2-1,0-1-8], [4:0-2-1,0-1-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.23	Vert(LL) 0.01	5	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(CT) 0.01	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S						
							Weight: 41 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=232/9-8-9 (min. 0-1-8), 4=232/9-8-9 (min. 0-1-8), 6=363/9-8-9 (min. 0-1-8)  
Max Horz 2=-105(LC 10)  
Max Uplift 2=-27(LC 12), 4=-37(LC 13)

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 5-6-0, Exterior(2) 5-6-0 to 9-10-13, Interior(1) 9-10-13 to 10-9-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard

Job J0222-1061	Truss PB1GE	Truss Type GABLE	Qty 2	Ply 1	Holland Residence
Comtech, Inc., Fayetteville, NC 28309, David Landry					Job Reference (optional)

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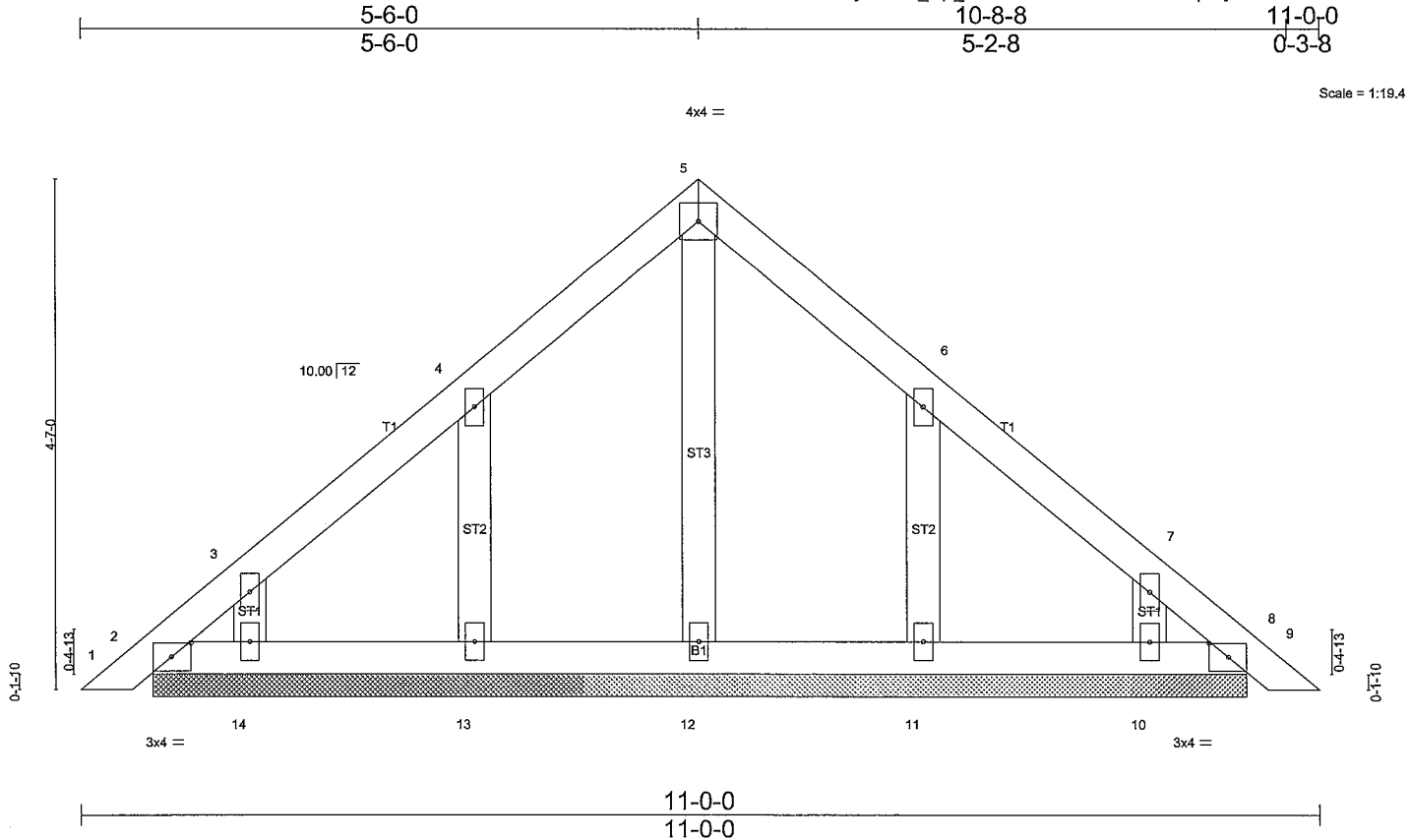


Plate Offsets (X,Y)-- [2:0-2-1,0-1-8], [8:0-2-1,0-1-8]									
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (oc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	-0.00	8	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	0.00	8	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 50 lb	FT = 20%

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 9-8-9.  
 (lb) - Max Horz 2=132(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 14, 10 except 13=-121(LC 12),  
 11=-121(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

**NOTES-**

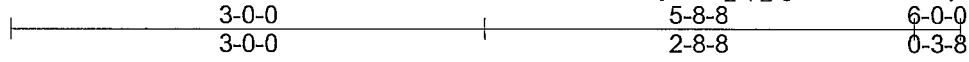
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 14, 10 except (t=lb) 13=121, 11=121.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard

Job J0222-1061	Truss PB2	Truss Type Piggyback	Qty 9	Ply 1	Holland Residence
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Comtech, Inc., Fayetteville, NC 28309, David Landry

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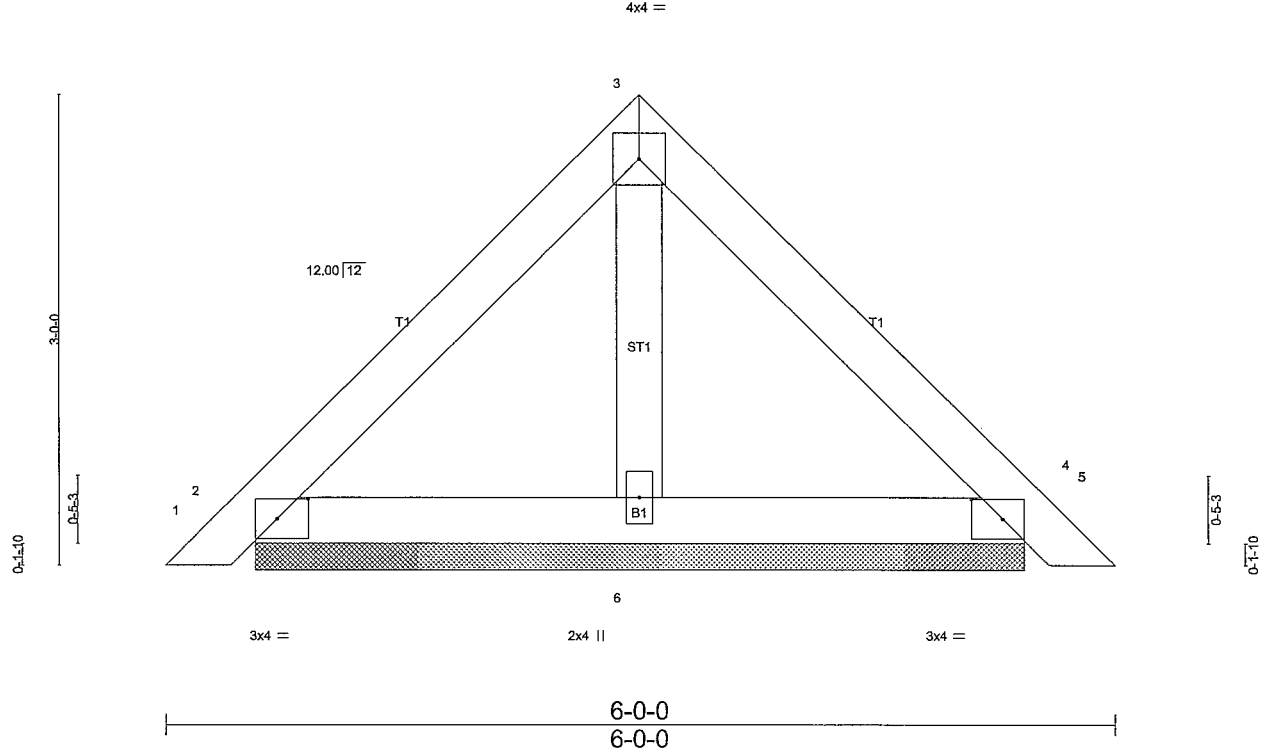


Plate Offsets (X,Y) = [2:0-2-6,0-1-8], [4:0-2-6,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.10	Vert(LL)	0.00	5	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(CT)	0.00	5	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.01	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code IRC2015/TPI2014						Weight: 23 lb	FT = 20%

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=142/4-10-6 (min. 0-1-8), 4=142/4-10-6 (min. 0-1-8), 6=149/4-10-6 (min. 0-1-8)  
Max Horz 2=-84(LC 10)  
Max Uplift 2=48(LC 13), 4=-54(LC 13)  
Max Grav 2=142(LC 1), 4=142(LC 1), 6=151(LC 3)

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

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard



Job J0222-1061	Truss PB3	Truss Type PIGGYBACK	Qty 18	Ply 1	Holland Residence
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Comtech, Inc., Fayetteville, NC 28309, David Landry

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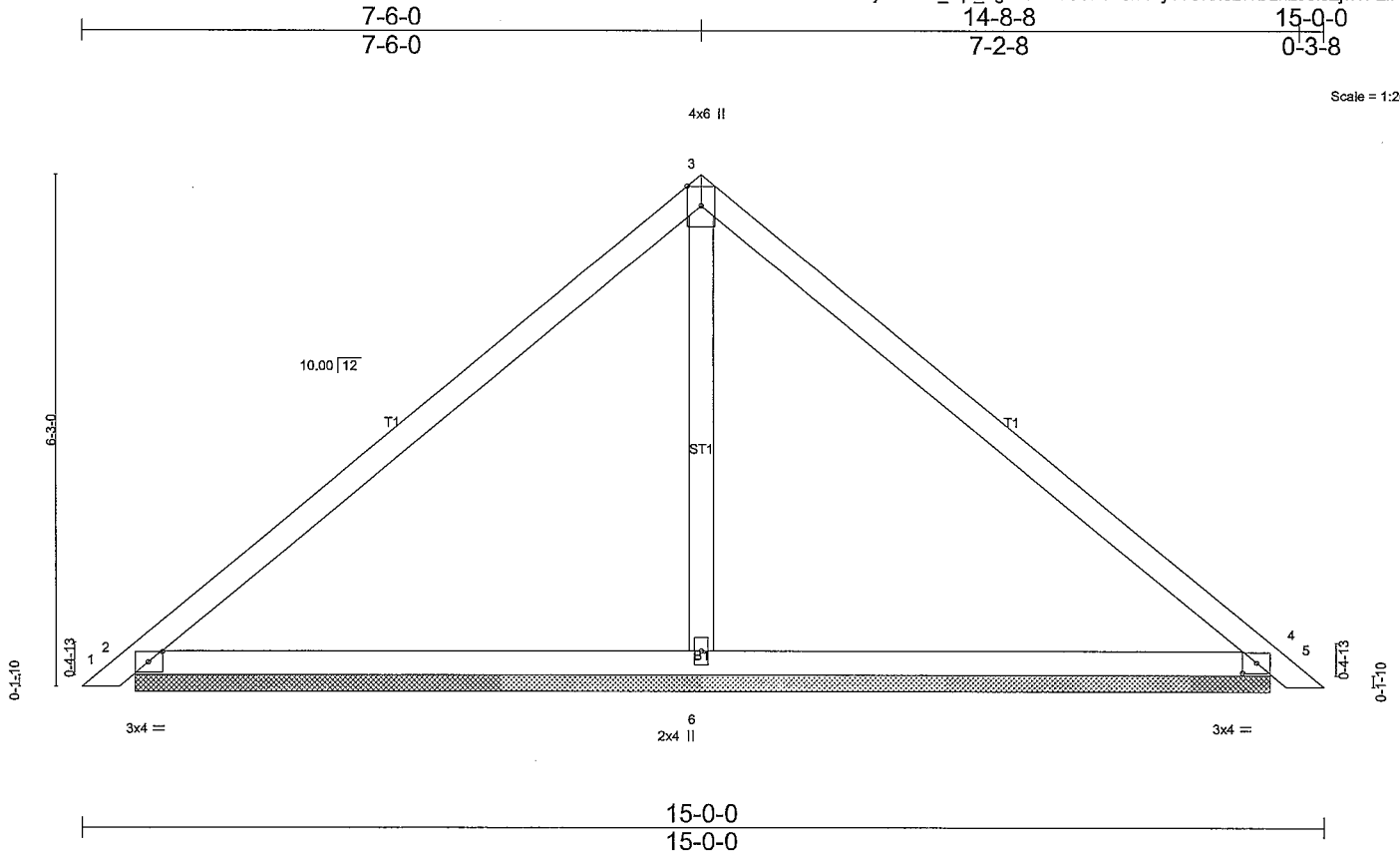


Plate Offsets (X,Y)- [2:0-2-1,0-1-8], [4:0-2-1,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.50	Vert(LL)	0.02	5	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.39	Vert(CT)	0.04	5	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.17	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 58 lb	FT = 20%
	Code IRC2015/TPI2014							

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=316/13-8-9 (min. 0-1-8), 4=316/13-8-9 (min. 0-1-8), 6=514/13-8-9 (min. 0-1-8)  
Max Horz 2=-145(LC 10)  
Max Uplift 2=-36(LC 12), 4=-49(LC 13)  
Max Grav 2=316(LC 1), 4=316(LC 1), 6=685(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 3-6=-299/102

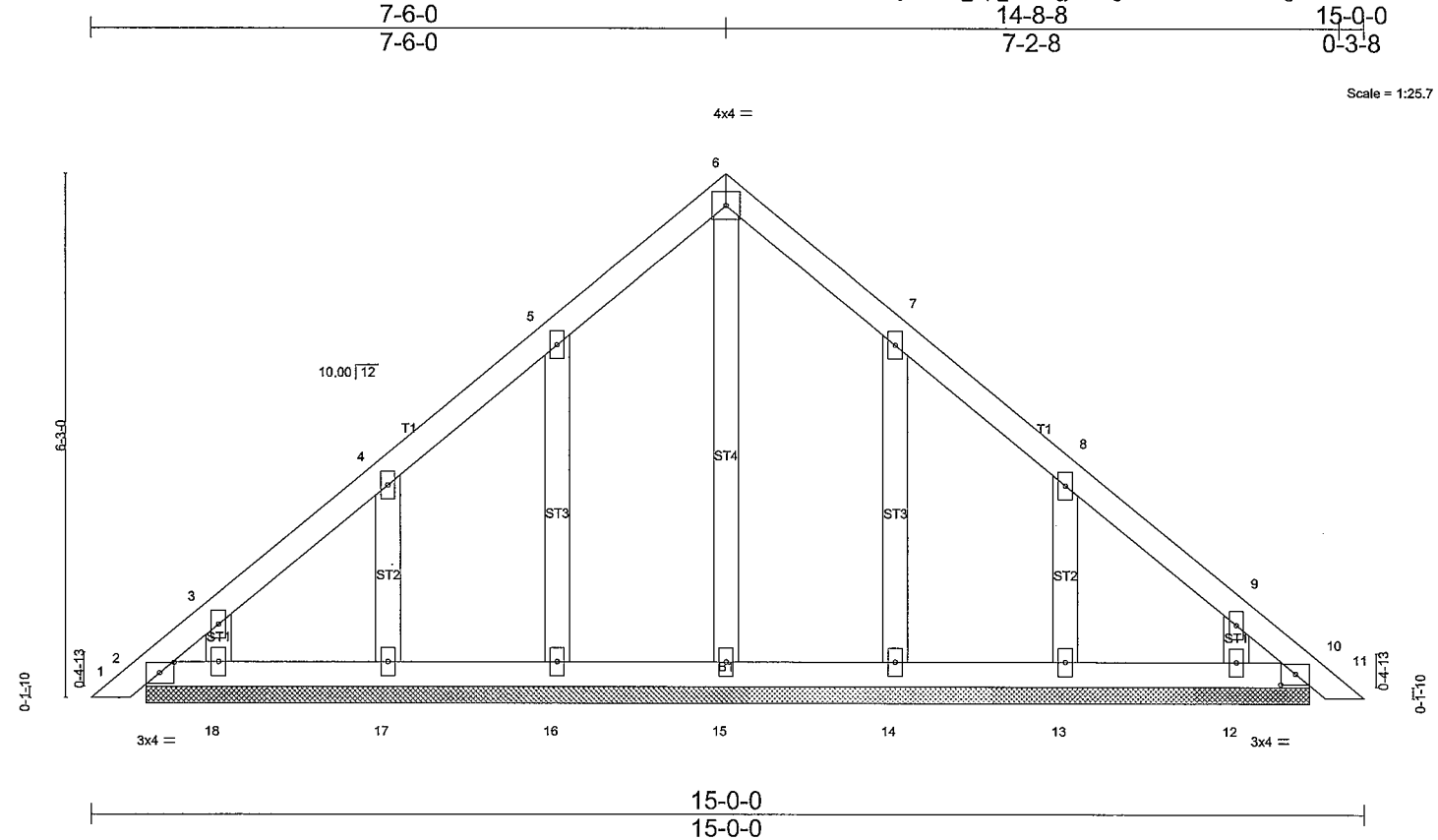
**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 7-6-0, Exterior(2) 7-6-0 to 11-10-13, Interior(1) 11-10-13 to 14-9-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard

Job J0222-1061	Truss PB3GE	Truss Type GABLE	Qty 2	Ply 1	Holland Residence
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LOADING (psf)		SPACING-		CSI		DEFL				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	-0.00	10	n/r	120	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	10	n/r	120	Weight: 77 lb FT = 20%		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	10	n/a	n/a			
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S									

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 13-8-9.  
 (lb) - Max Horz 2=-182(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 18, 12 except 16=-114(LC 12),  
 17=-115(LC 12), 14=-112(LC 13), 13=-116(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 10, 15, 16, 17, 18, 14, 13,  
 12

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=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
  - 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.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 18, 12 except (jt=lb) 16=114, 17=115, 14=112, 13=116.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

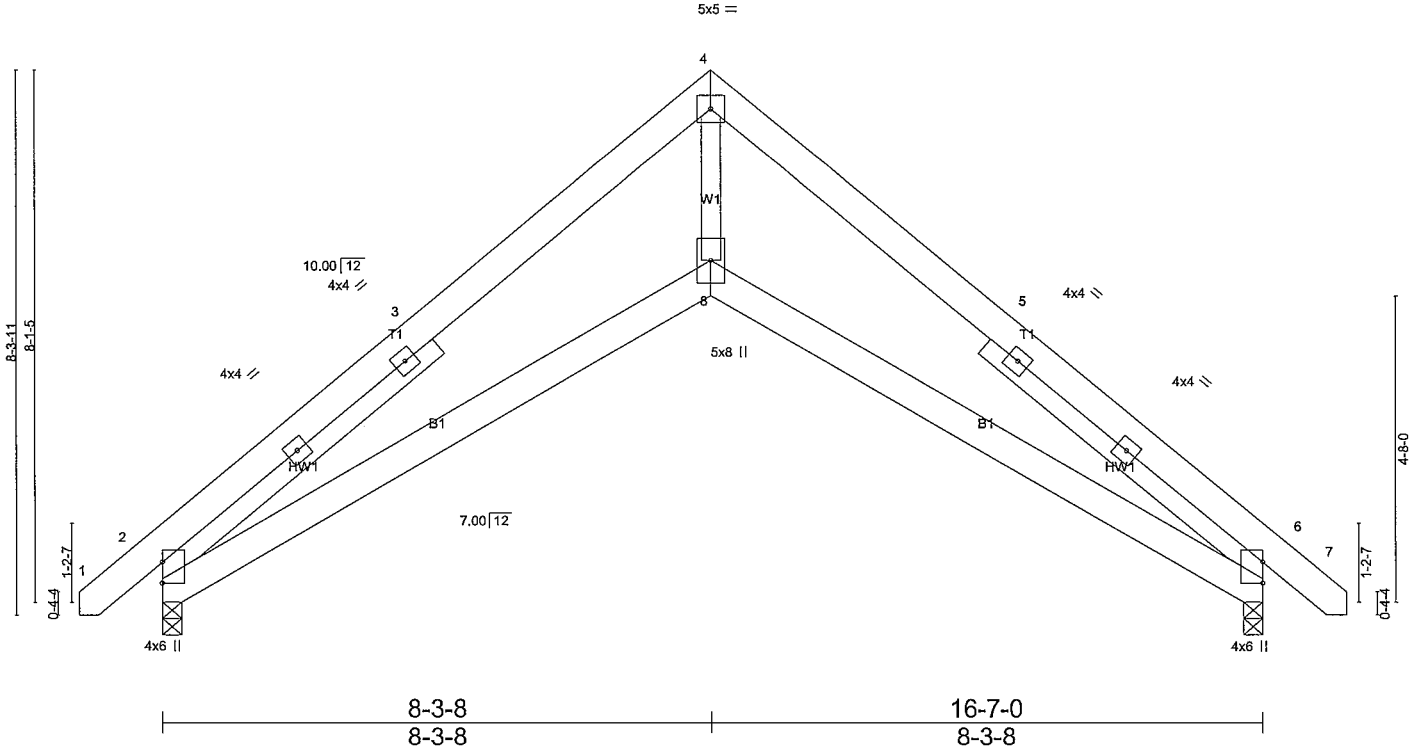
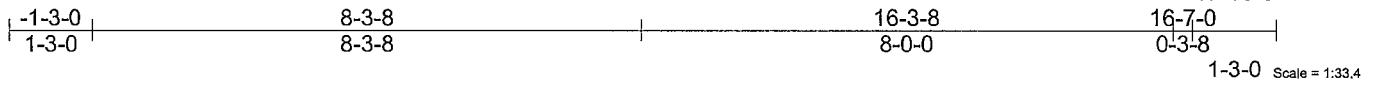
**LOAD CASE(S)** Standard

Job J0222-1061	Truss T1	Truss Type SCISSORS	Qty 1	Ply 1	Holland Residence
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Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Mar 1 16:07:46 2022 Page 1  
ID:twd?SCwoJ8kxcOCjwNeOR\_zqs\_r-c37nu3QGzsocO56J4uesPTANR\_4NWBBayJtC04HzfFbR



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.22	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.25	Vert(LL) -0.05 6-8 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.30	Vert(CT) -0.11 6-8 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.10 6 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) -0.04 8 >999 240	Weight: 124 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2  
 SLIDER Left 2x4 SP No.2 -x 5-5-8, Right 2x4 SP No.2 -x 5-5-8

**BRACING-**

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=725/0-3-8 (min. 0-1-8), 6=725/0-3-8 (min. 0-1-8)  
 Max Horz 2=-188(LC 10)  
 Max Uplift 2=-43(LC 12), 6=-43(LC 13)

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

TOP CHORD 2-9=-1405/9, 3-9=-1304/13, 3-4=-1203/49, 4-5=-1322/36, 5-10=-1322/0, 6-10=-1447/0  
 BOT CHORD 2-8=0/1194, 6-8=0/1188  
 WEBS 4-8=0/1319

**NOTES-**

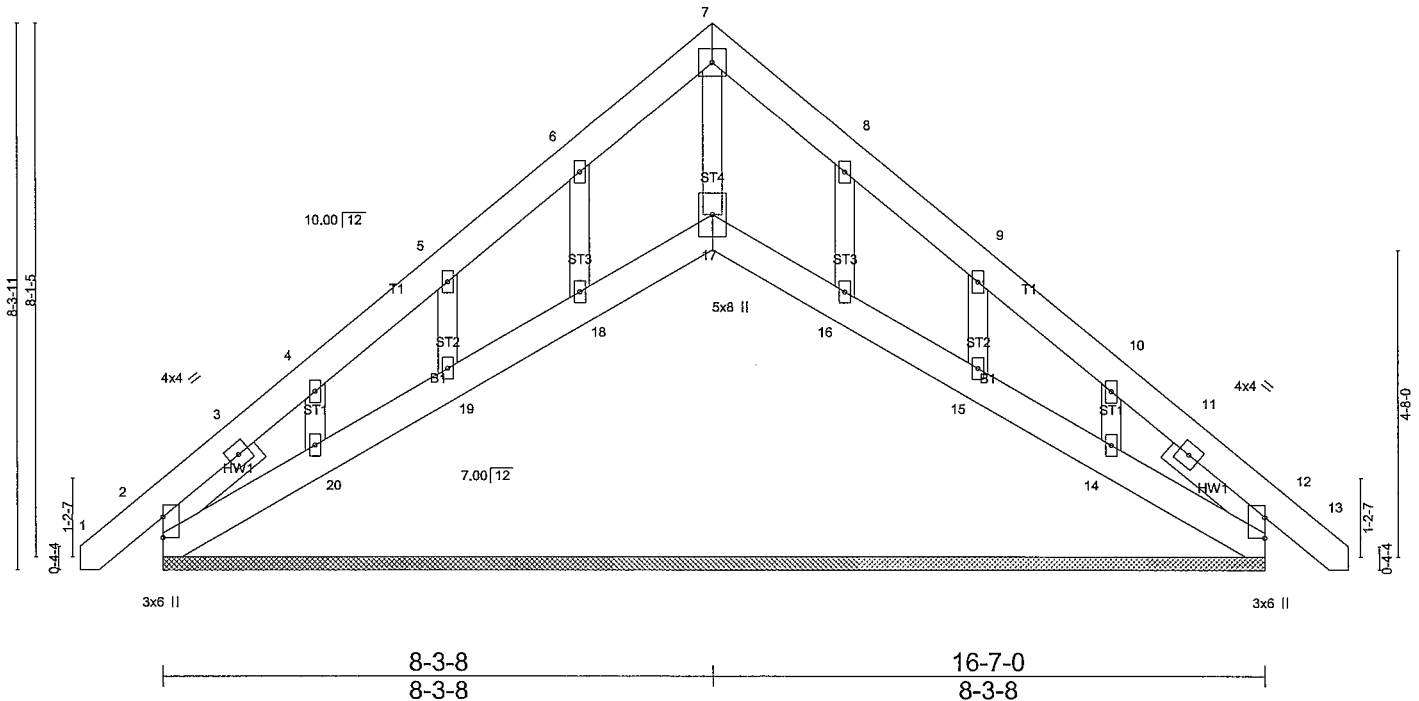
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-4 to 3-3-9, Interior(1) 3-3-9 to 8-3-8, Exterior(2) 8-3-8 to 12-8-5, Interior(1) 12-8-5 to 17-8-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job J0222-1061	Truss T1GE	Truss Type GABLE	Qty 1	Ply 1	Holland Residence
Comtech, Inc., Fayetteville, NC 28309, David Landry					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Mar 1 16:07:47 2022 Page 1  
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<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.04	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) -0.00 12 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Vert(CT) -0.00 13 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 12 n/a n/a		
	Code IRC2015/TPI2014			Weight: 128 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
OTHERS 2x4 SP No.2  
SLIDER Left 2x4 SP No.2 -x 1-11-4, Right 2x4 SP No.2 -x 1-11-4

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 16-7-0.  
(lb) - Max Horz 2=-235(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 17, 12, 19, 16 except 2=-193(LC 8),  
18=-105(LC 12), 20=-203(LC 12), 15=-106(LC 13), 14=-177(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 12, 18, 19, 20, 16, 15, 14 except  
2=287(LC 20), 17=433(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 6-7=-231/250, 7-8=-231/250

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf, BCDL=6.0psf, h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 12, 19, 16 except (it=lb) 2=193, 18=105, 20=203, 15=106, 14=177.
  - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 17, 18, 19, 20, 16, 15, 14.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job J0222-1061	Truss T2	Truss Type SCISSORS	Qty 5	Ply 1	Holland Residence
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Comtech, Inc., Fayetteville, NC 28309, David Landry

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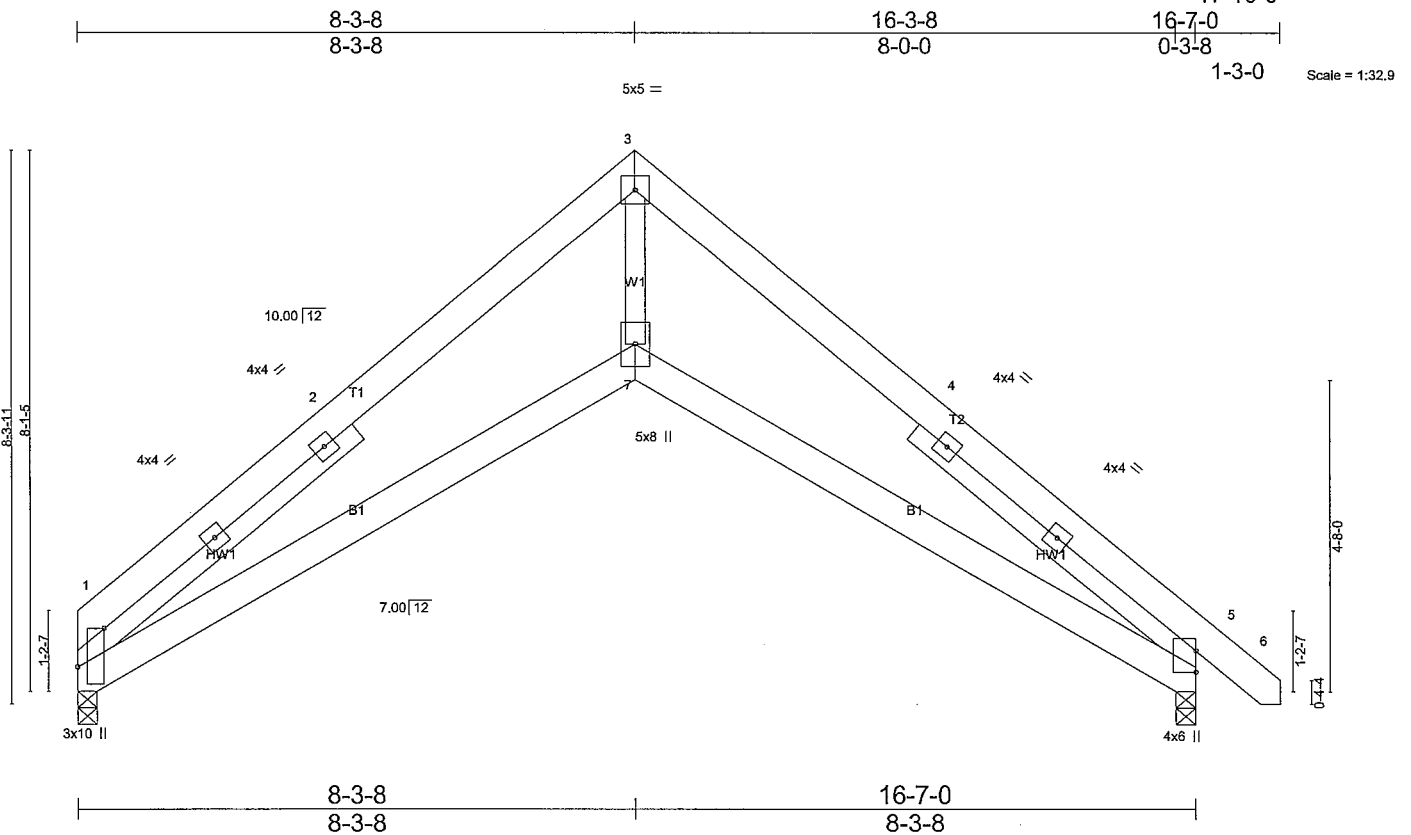


Plate Offsets (X,Y) - [1:0-6-14,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.22	Vert(LL)	-0.05	1-7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.26	Vert(CT)	-0.11	1-7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.31	Horz(CT)	0.10	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	-0.04	7	>999		
								Weight: 121 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2  
 SLIDER Left 2x4 SP No.2 -x 5-5-8, Right 2x4 SP No.2 -x 5-5-8

**BRACING-**

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.**

(lb/size) 1=642/0-3-8 (min. 0-1-8), 5=728/0-3-8 (min. 0-1-8)  
 Max Horz 1=-186(LC 8)  
 Max Uplift 1=-24(LC 12), 5=-43(LC 13)

**FORCES.**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-1416/35, 2-8=-1260/39, 3-8=-1217/73, 3-4=-1335/59, 4-9=-1335/27,  
 5-9=-1462/21  
 BOT CHORD 1-7=0/1206, 5-7=0/1200  
 WEBS 3-7=0/1332

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 8-3-8, Exterior(2) 8-3-8 to 12-8-5, Interior(1) 12-8-5 to 17-8-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

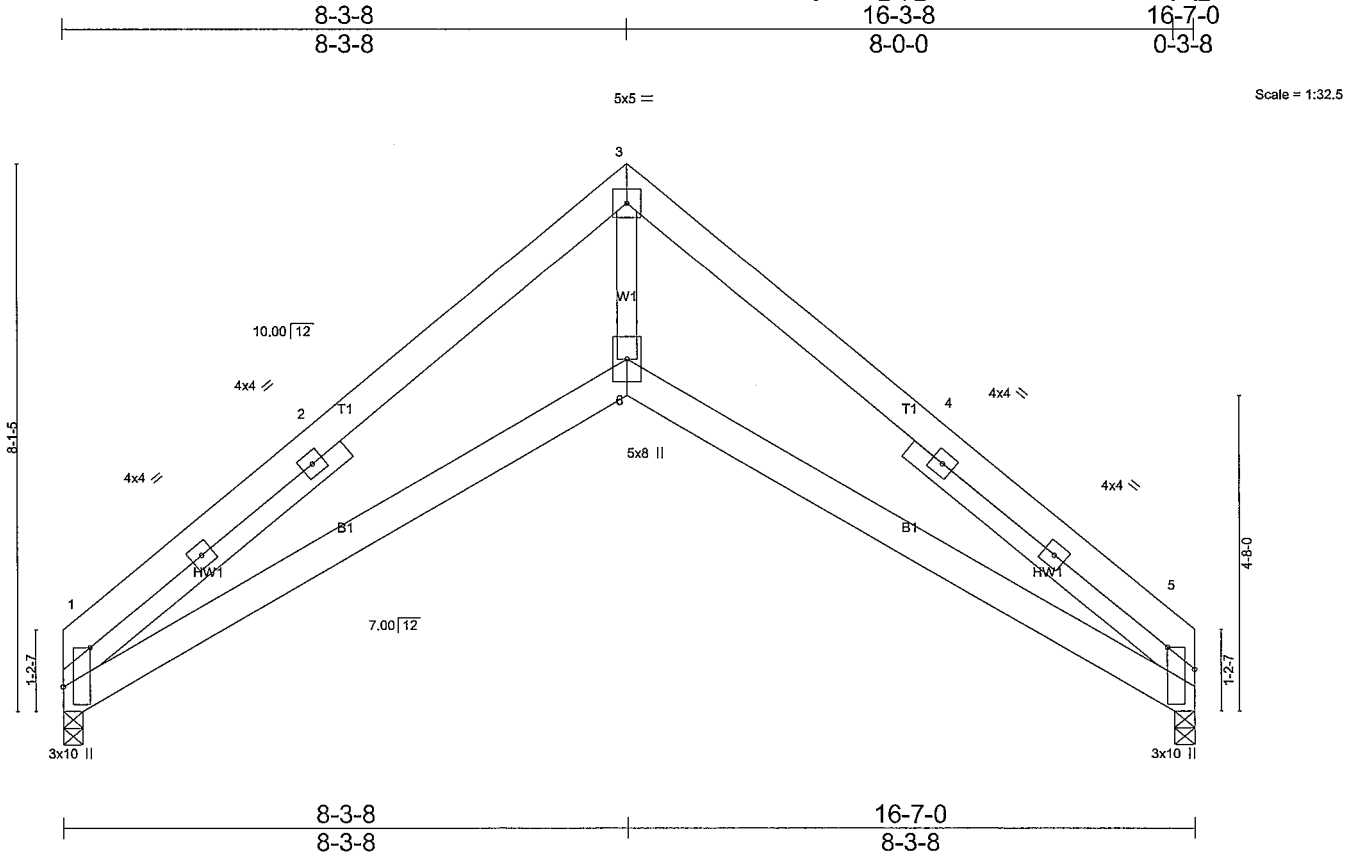
**LOAD CASE(S)** Standard

Job J0222-1061	Truss T3	Truss Type SCISSORS	Qty 1	Ply 1	Holland Residence
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Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

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Plate Offsets (X,Y) - [1:0-6-14,Edge], [5:0-3-15,Edge]									
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	I/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.22	Vert(LL)	-0.05	5-6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.26	Vert(CT)	-0.11	5-6	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.31	Horz(CT)	0.10	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	-0.04	6	>999		
								Weight: 118 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.2  
SLIDER Left 2x4 SP No.2 -x 5-5-8, Right 2x4 SP No.2 -x 5-5-8

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=645/0-3-8 (min. 0-1-8), 5=645/0-3-8 (min. 0-1-8)  
Max Horz 1=-182(LC 8)  
Max Uplift 1=-24(LC 12), 5=-24(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-1431/54, 2-7=-1274/59, 3-7=-1231/92, 3-8=-1315/79, 4-8=-1338/45,  
4-5=-1466/43  
BOT CHORD 1-6=-9/1206, 5-6=0/1201  
WEBS 3-6=0/1335

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 8-3-8, Exterior(2) 8-3-8 to 12-8-5, Interior(1) 12-8-5 to 16-4-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

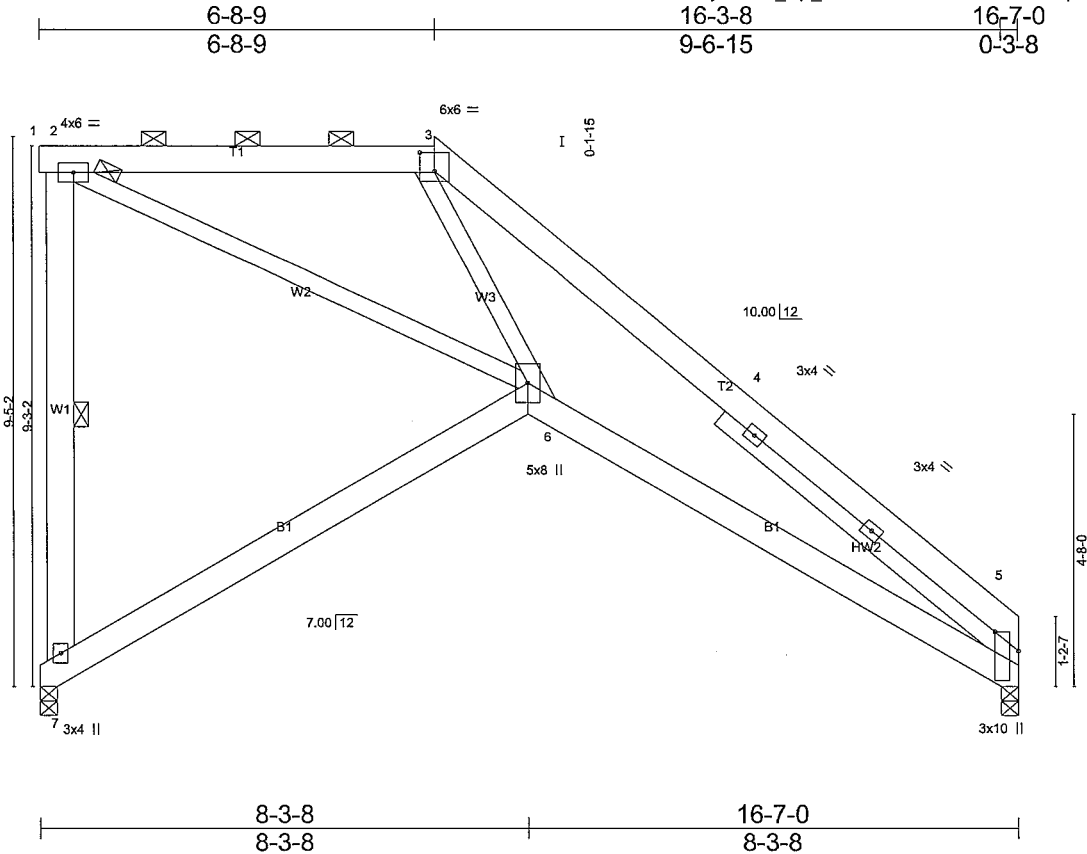
**LOAD CASE(S)** Standard

Job J0222-1061	Truss T4	Truss Type HALF HIP	Qty 1	Ply 1	Holland Residence
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Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

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Scale = 1:37.6

Plate Offsets (X,Y)-- [3:0-3-0,0-3-14], [5:0-3-15,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.46	Vert(LL)	-0.06	6-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.24	Vert(CT)	-0.12	6-7	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.22	Horz(CT)	0.11	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	-0.08	6	>999	240		
									Weight: 141 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 W1: 2x6 SP No.1  
 SLIDER Right 2x4 SP No.2 -x 6-6-15

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 2-7

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 5=640/0-3-8 (min. 0-1-8), 7=661/0-3-8 (min. 0-1-8)

Max Horz 7=-287(LC 13)  
 Max Uplift 7=-108(LC 8)  
 Max Grav 5=640(LC 24), 7=661(LC 1)

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

TOP CHORD 2-7=-588/157, 2-8=-752/137, 3-8=-750/138, 3-4=-1168/0, 4-9=-1274/0, 5-9=-1381/0  
 BOT CHORD 6-7=-393/431, 5-6=0/1098  
 WEBS 2-6=-158/828, 3-6=-150/671

**NOTES-**

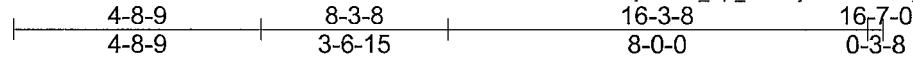
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 6-8-9, Exterior(2) 6-8-9 to 12-11-4, Interior(1) 12-11-4 to 16-4-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 5, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=108.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job J0222-1061	Truss T5	Truss Type HALF HIP	Qty 1	Ply 1	Holland Residence
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

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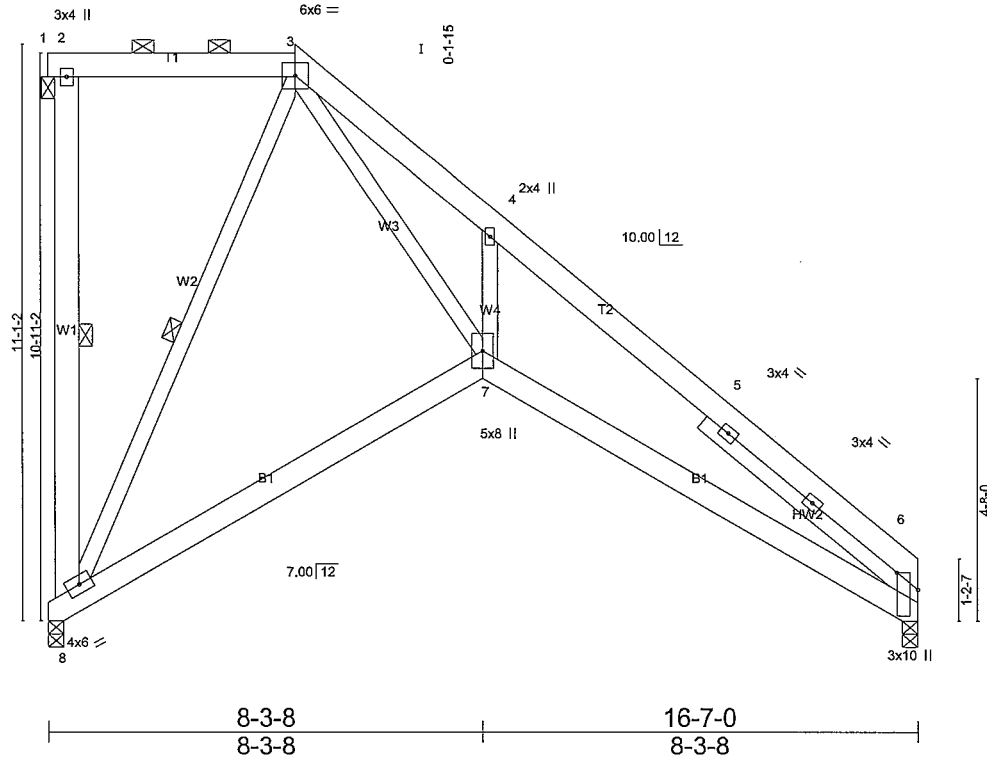


Plate Offsets (X,Y)- [6:0-3-15,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.27	Vert(LL)	-0.05	7-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.25	Vert(CT)	-0.12	7-8	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.34	Horz(CT)	0.10	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	-0.02	7	>999		
								Weight: 154 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 W1: 2x6 SP No.1  
 SLIDER Right 2x4 SP No.2 -x 5-4-6

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 2-8, 3-8

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 6=640/0-3-8 (min. 0-1-8), 8=661/0-3-8 (min. 0-1-8)

Max Horz 8=-342(LC 13)  
 Max Uplift 8=-135(LC 13)  
 Max Grav 6=640(LC 24), 8=661(LC 1)

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

TOP CHORD 3-4=-1279/0, 4-10=-1217/0, 10-11=-1220/0, 5-11=-1259/0, 5-6=-1415/0  
 BOT CHORD 7-8=-293/495, 6-7=0/1124  
 WEBS 3-7=0/1289, 4-7=-566/524, 3-8=-619/60

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 4-8-9, Exterior(2) 4-8-9 to 10-11-4, Interior(1) 10-11-4 to 16-4-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 6, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=135.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

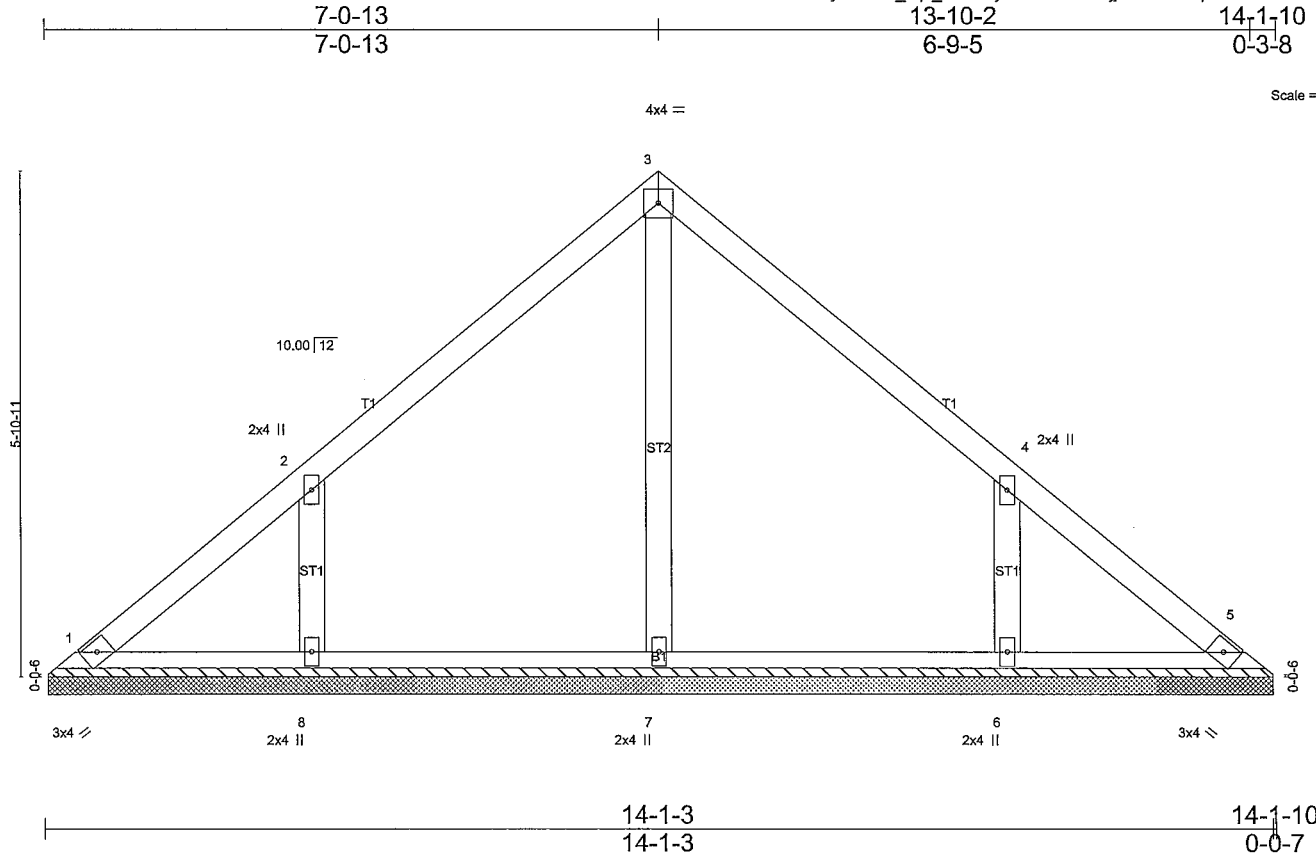


Job J0222-1061	Truss VE1	Truss Type VALLEY	Qty 1	Ply 1	Holland Residence
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Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Mar 1 16:07:50 2022 Page 1  
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Scale = 1:25.5

Plate Offsets (X,Y) - [4:0-0-0,0-0-0]	
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0
TCLL 20.0	Plate Grip DOL 1.15
TCDL 10.0	Lumber DOL 1.15
BCLL 0.0 *	Rep Stress Incr YES
BCDL 10.0	Code IRC2015/TPI2014
<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d
TC 0.13	Vert(LL) n/a - n/a 999
BC 0.09	Vert(CT) n/a - n/a 999
WB 0.08	Horz(CT) 0.00 5 n/a n/a
Matrix-S	
<b>PLATES</b>	<b>GRIP</b>
MT20	244/190
Weight: 61 lb	FT = 20%

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 14-0-12.  
(lb) - Max Horz 1=-133(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-130(LC 12), 6=-130(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=351(LC 19), 6=350(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 2-8=-327/242, 4-6=-327/242

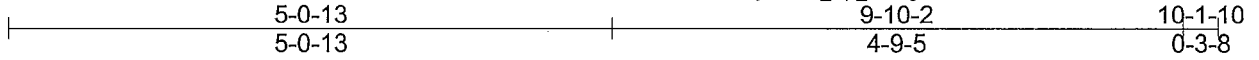
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 7-0-13, Exterior(2) 7-0-13 to 11-5-10, Interior(1) 11-5-10 to 13-8-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=130, 6=130.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

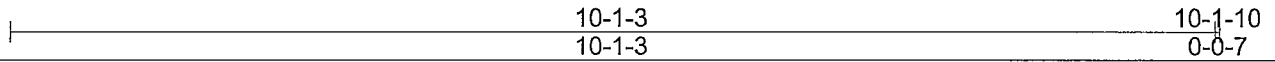
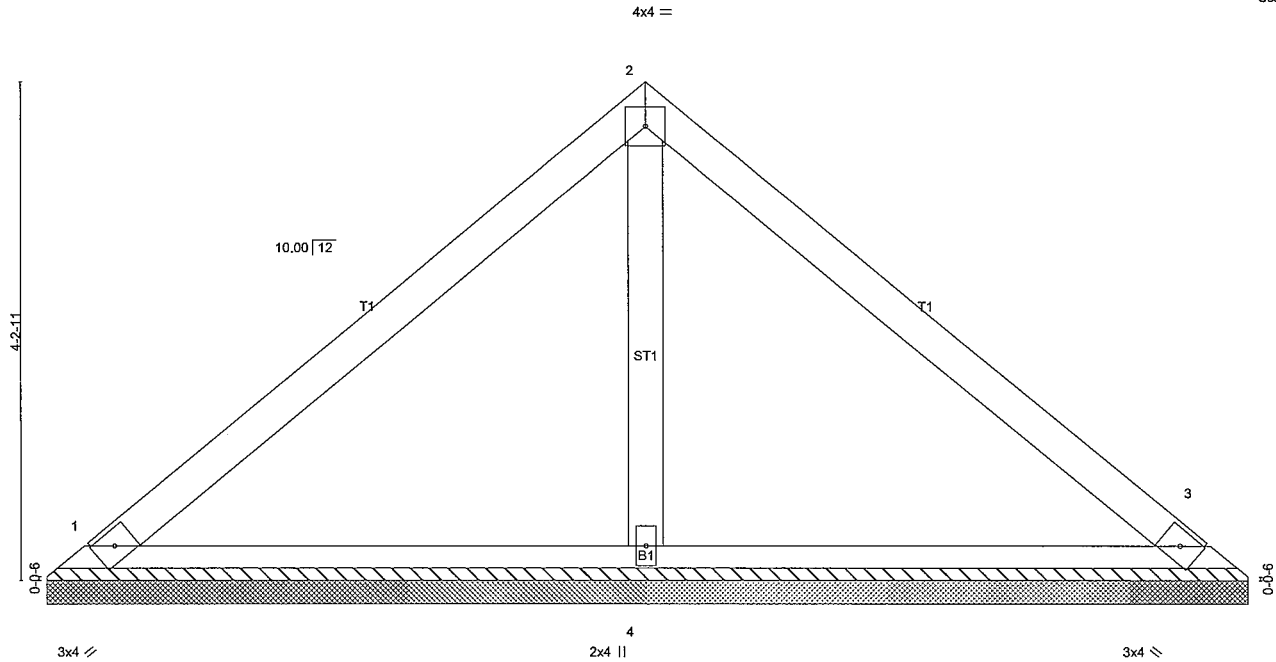
Job J0222-1061	Truss VE2	Truss Type VALLEY	Qty 1	Ply 1	Holland Residence
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Mar 1 16:07:51 2022 Page 1  
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Scale = 1:18.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 38 lb	FT = 20%

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=199/10-0-12 (min. 0-1-8), 3=199/10-0-12 (min. 0-1-8), 4=348/10-0-12 (min. 0-1-8)  
Max Horz 1=-93(LC 8)  
Max Uplift 1=-22(LC 13), 3=-30(LC 13)

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

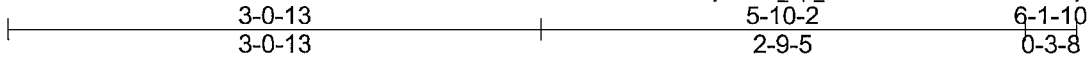
**LOAD CASE(S)** Standard

Job J0222-1061	Truss VE3	Truss Type VALLEY	Qty 1	Ply 1	Holland Residence
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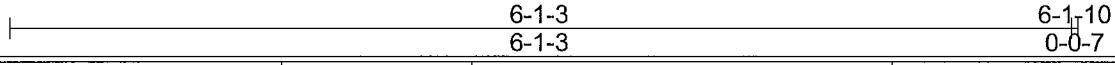
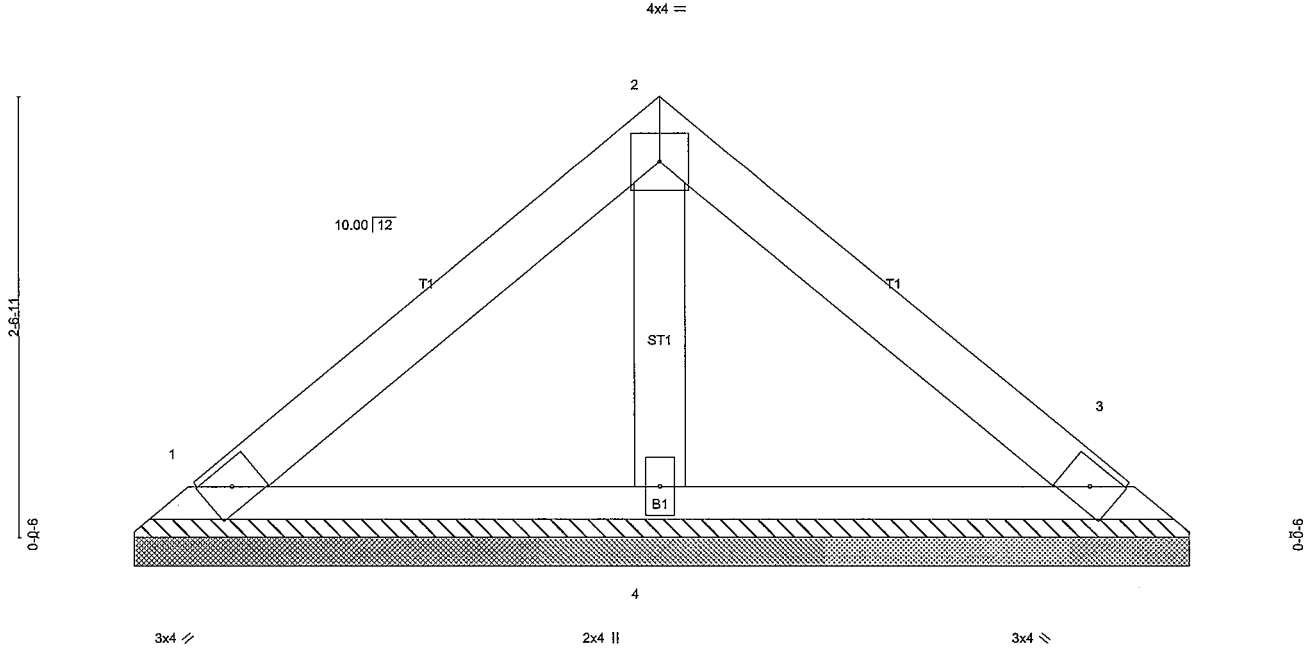
Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

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Scale = 1:12.7



<b>LOADING (psf)</b>	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.10	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 22 lb	FT = 20%

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=123/6-0-12 (min. 0-1-8), 3=123/6-0-12 (min. 0-1-8), 4=180/6-0-12 (min. 0-1-8)  
Max Horz 1=-53(LC 8)  
Max Uplift 1=-19(LC 13), 3=-23(LC 13)

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

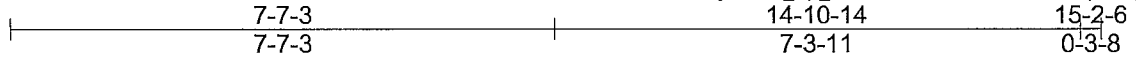
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job J0222-1061	Truss VK1	Truss Type VALLEY	Qty 2	Ply 1	Holland Residence
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Comtech, Inc., Fayetteville, NC 28309, David Landry

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4x4 =

Scale = 1:30.9

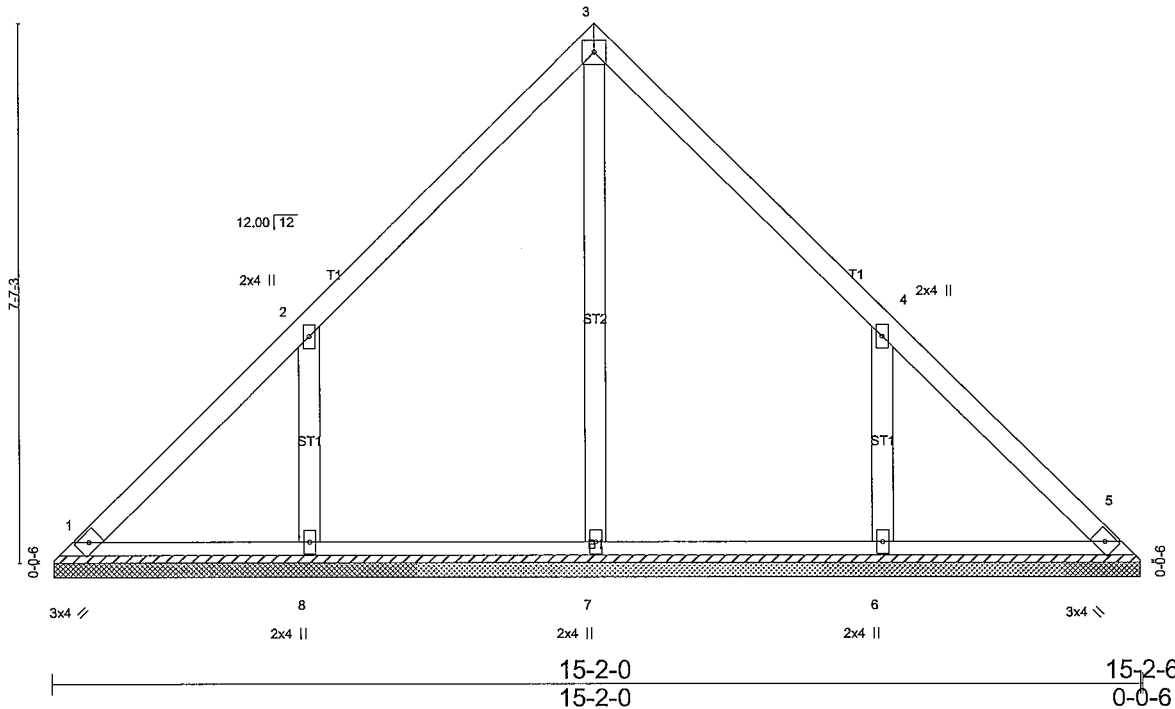


Plate Offsets (X,Y) - [4:0-0-0,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.18	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.12	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014						Weight: 72 lb	FT = 20%

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 15-1-10.  
(lb) - Max Horz 1=-174(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-182(LC 12), 6=-182(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=413(LC 22), 8=454(LC 19), 6=454(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS 2-8=-394/305, 4-6=-394/305

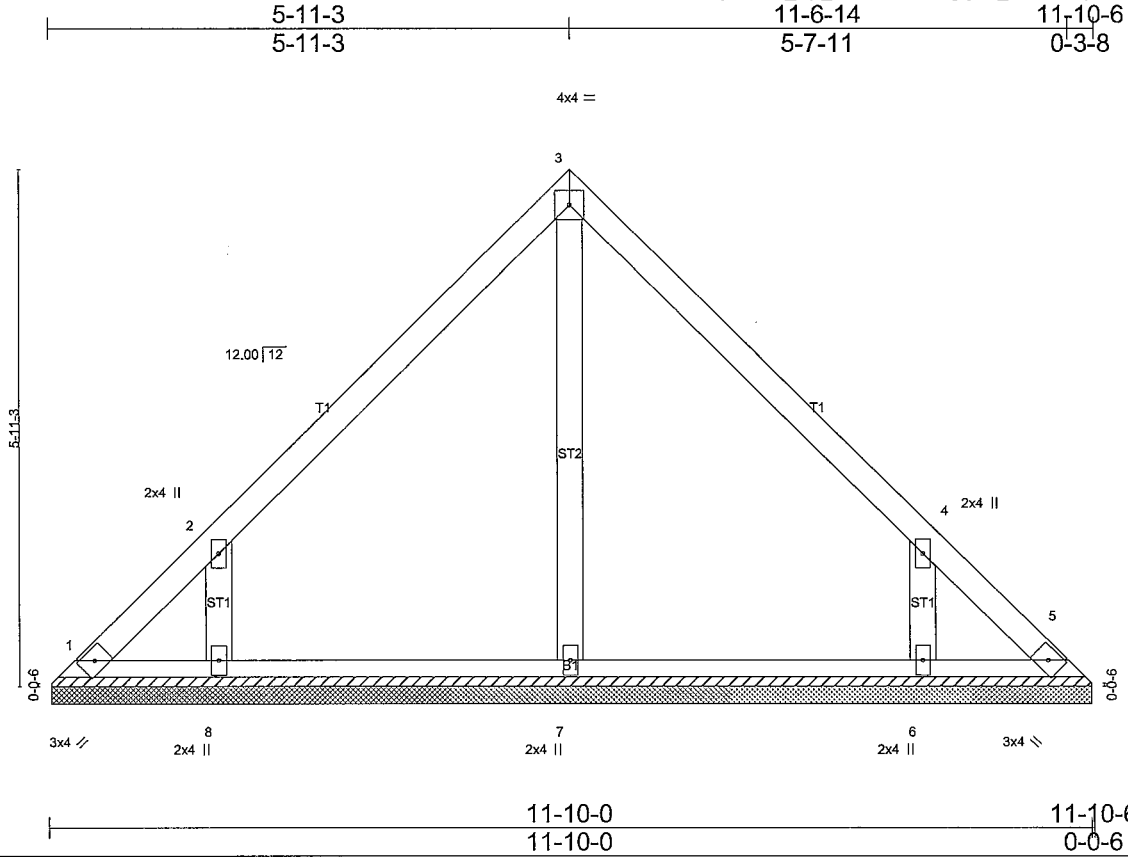
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 7-7-3, Exterior(2) 7-7-3 to 12-0-0, Interior(1) 12-0-0 to 14-10-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=182, 6=182.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job J0222-1061	Truss VK2	Truss Type VALLEY	Qty 2	Ply 1	Holland Residence
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Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MITek Industries, Inc. Tue Mar 1 16:07:53 2022 Page 1  
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Scale = 1:25.2

Plate Offsets (X,Y) - [4:0-0-0,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.14	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014						Weight: 53 lb	FT = 20%

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

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

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 11-9-10.  
(lb) - Max Horz 1=-134(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-160(LC 12), 6=-160(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=338(LC 19), 6=338(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 2-8=-357/298, 4-6=-357/298

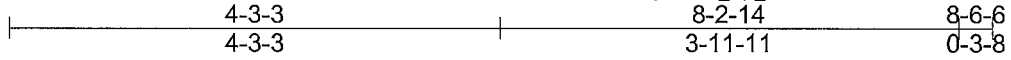
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 5-11-3, Exterior(2) 5-11-3 to 10-4-0, Interior(1) 10-4-0 to 11-6-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=160, 6=160.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

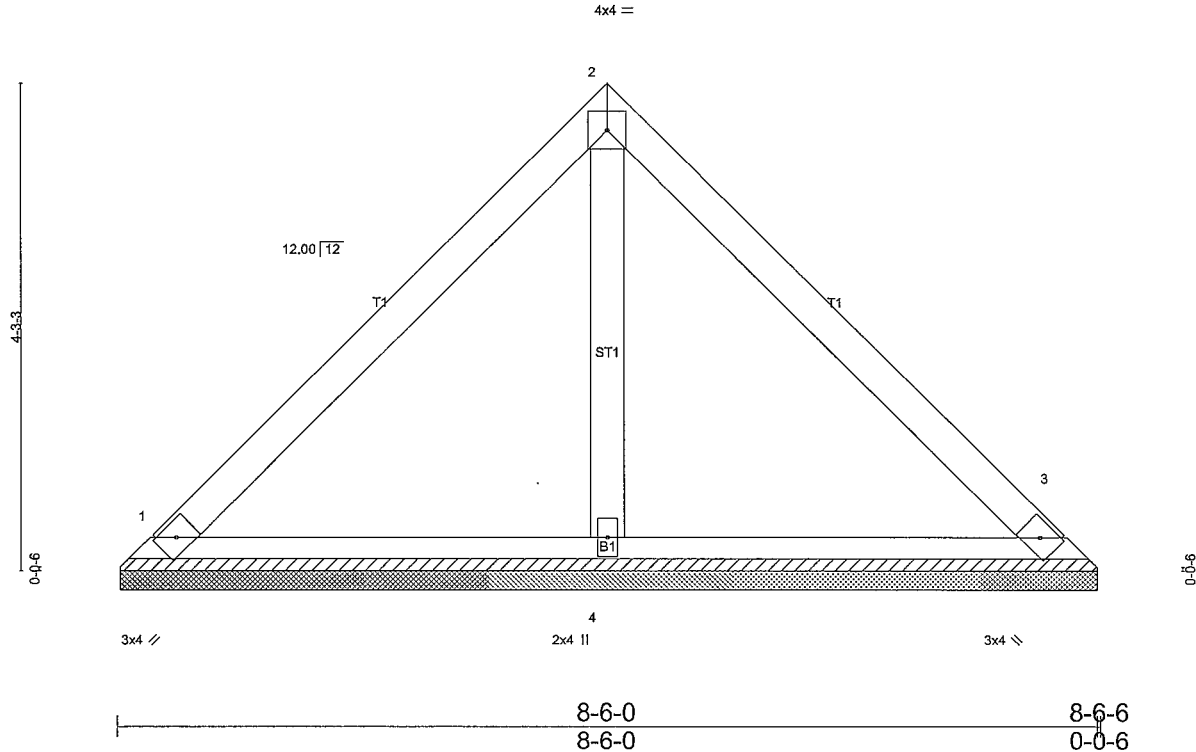
Job J0222-1061	Truss VK3	Truss Type VALLEY	Qty 2	Ply 1	Holland Residence
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

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Scale = 1:19.2



<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc)	<b>l/defl</b>	<b>L/d</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.26	Vert(LL) n/a -	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.11	Vert(CT) n/a -	n/a	999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00 3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P					
						Weight: 35 lb	FT = 20%

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=191/8-5-10 (min. 0-1-8), 3=191/8-5-10 (min. 0-1-8), 4=245/8-5-10 (min. 0-1-8)  
Max Horz 1=-94(LC 8)  
Max Uplift 1=-34(LC 13), 3=-34(LC 13)

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

**NOTES-**

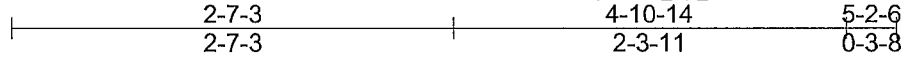
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

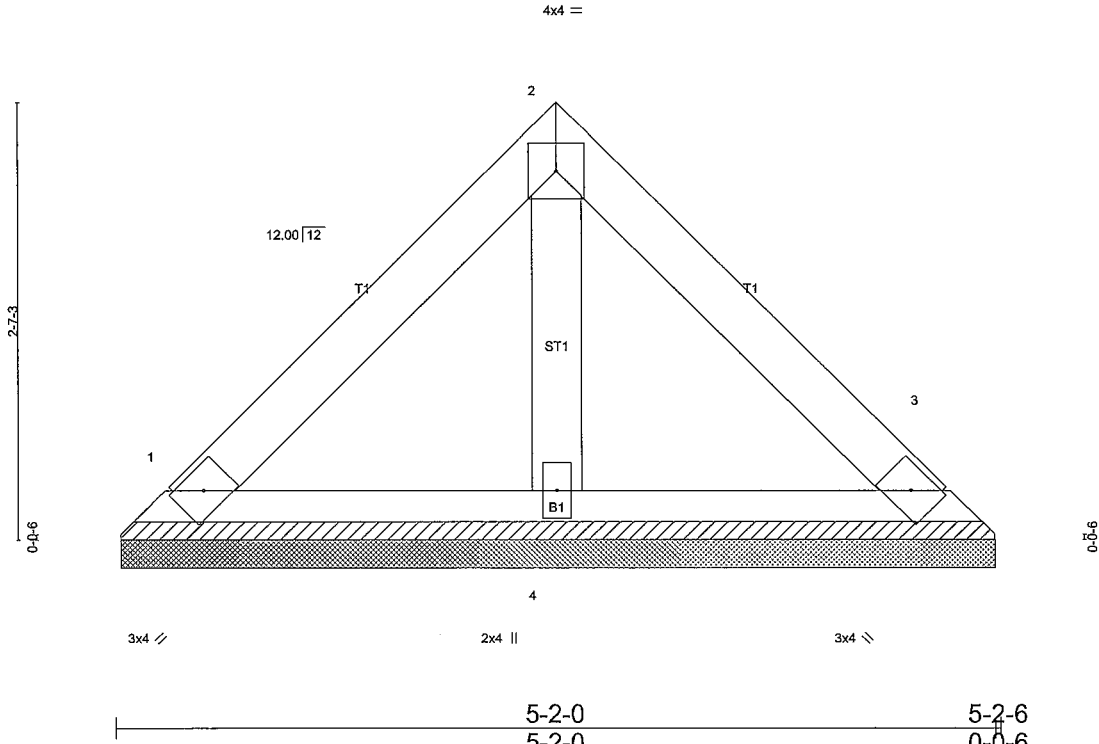
Job J0222-1061	Truss VK4	Truss Type VALLEY	Qty 2	Ply 1	Holland Residence
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

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Scale = 1:13.0



<b>LOADING (psf)</b>	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.08	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.01	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 20 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-2-6 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=109/5-1-10 (min. 0-1-8), 3=109/5-1-10 (min. 0-1-8), 4=141/5-1-10 (min. 0-1-8)  
Max Horz 1=-54(LC 8)  
Max Uplift 1=-20(LC 13), 3=-20(LC 13)

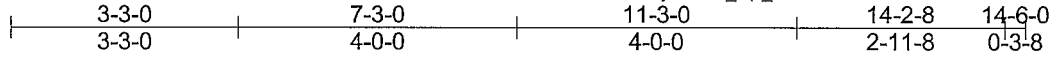
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job J0222-1061	Truss VL1	Truss Type VALLEY	Qty 1	Ply 1	Holland Residence
Comtech, Inc., Fayetteville, NC 28309, David Landry					Job Reference (optional)

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Mar 1 16:07:55 2022 Page 1  
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4x4 =

Scale = 1:31.7

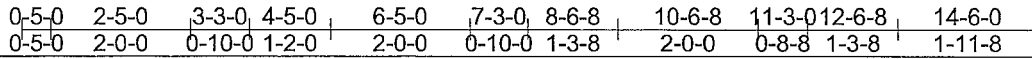
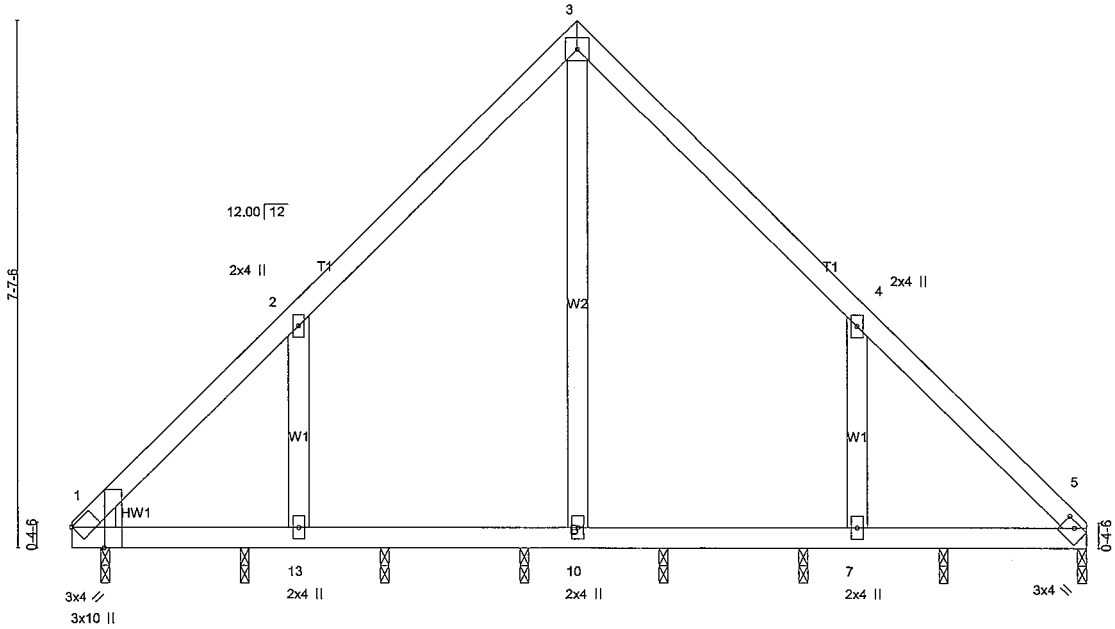


Plate Offsets (X,Y)- [1:0-3-8,Edge], [1:0-0-1,Edge], [5:0-2-0,0-0-14]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.14	Vert(LL)	-0.00	13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	-0.00	7	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.00	13	>999	240		
									Weight: 72 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 WEBS 2x4 SP No.2  
 WEDGE  
 Left: 2x4 SP No.2

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 0-1-8.  
 (lb) - Max Horz 1=-174(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 5, 1, 12, 6 except 14=-136(LC 12),  
 8=-143(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 5, 1, 12, 11, 9, 6 except  
 14=266(LC 19), 8=297(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 2-13=-381/304, 4-7=-383/302

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-5 to 4-7-2, Interior(1) 4-7-2 to 7-3-0, Exterior(2) 7-3-0 to 11-7-13, Interior(1) 11-7-13 to 14-5-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5, 1, 14, 12, 11, 9, 8, 6.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 1, 12, 6 except (jt=lb) 14=136, 8=143.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

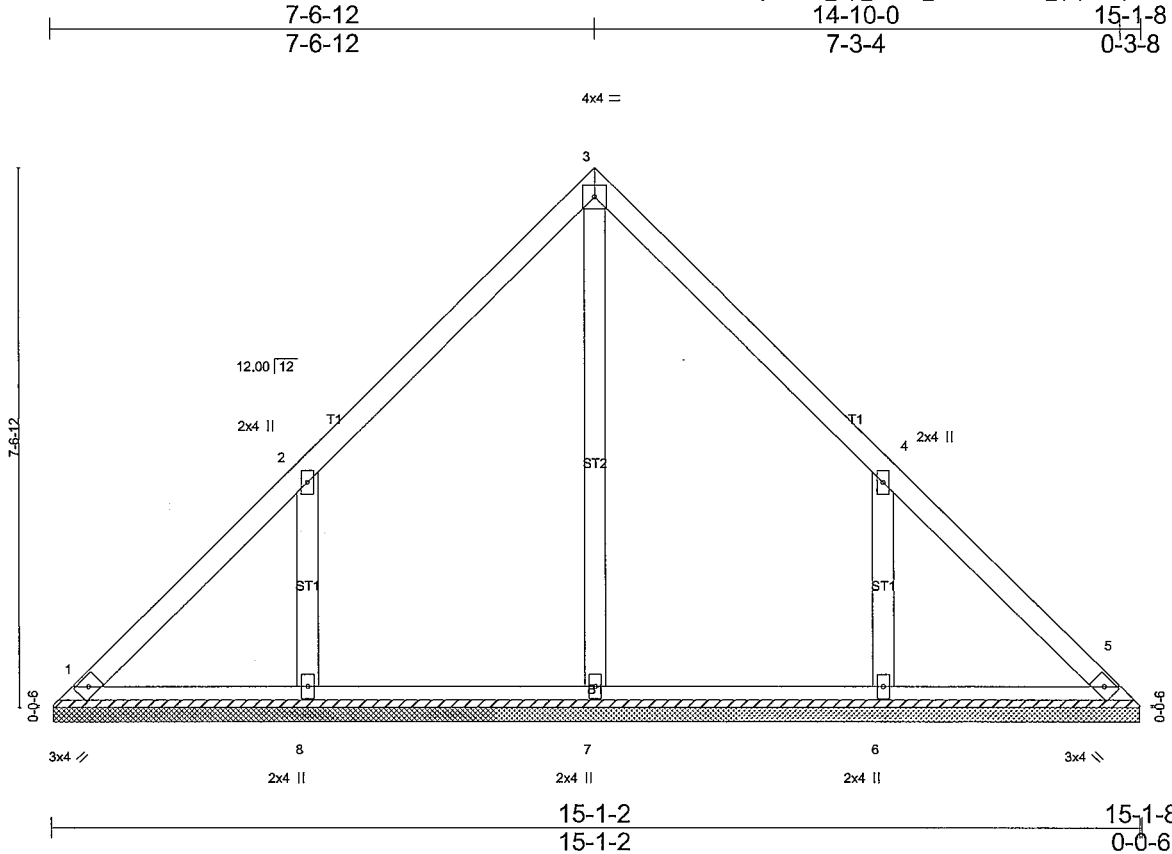


Job J0222-1061	Truss VL2	Truss Type VALLEY	Qty 1	Ply 1	Holland Residence
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Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

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Scale = 1:30.7

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.16	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.18	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.12	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 72 lb	FT = 20%

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 15-0-12.  
(lb) - Max Horz 1=-173(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-181(LC 12), 6=-181(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=413(LC 22), 8=451(LC 19), 6=451(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 2-8=-392/304, 4-6=-392/304

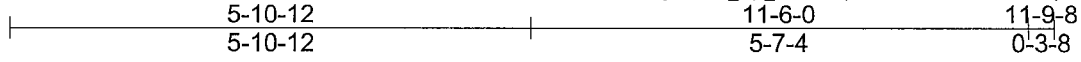
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 7-6-12, Exterior(2) 7-6-12 to 11-11-9, Interior(1) 11-11-9 to 14-9-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=181, 6=181.
  - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job J0222-1061	Truss VL3	Truss Type VALLEY	Qty 1	Ply 1	Holland Residence
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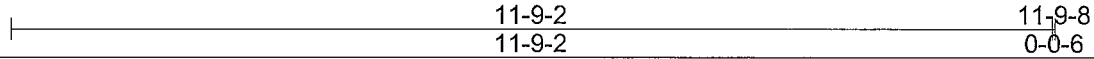
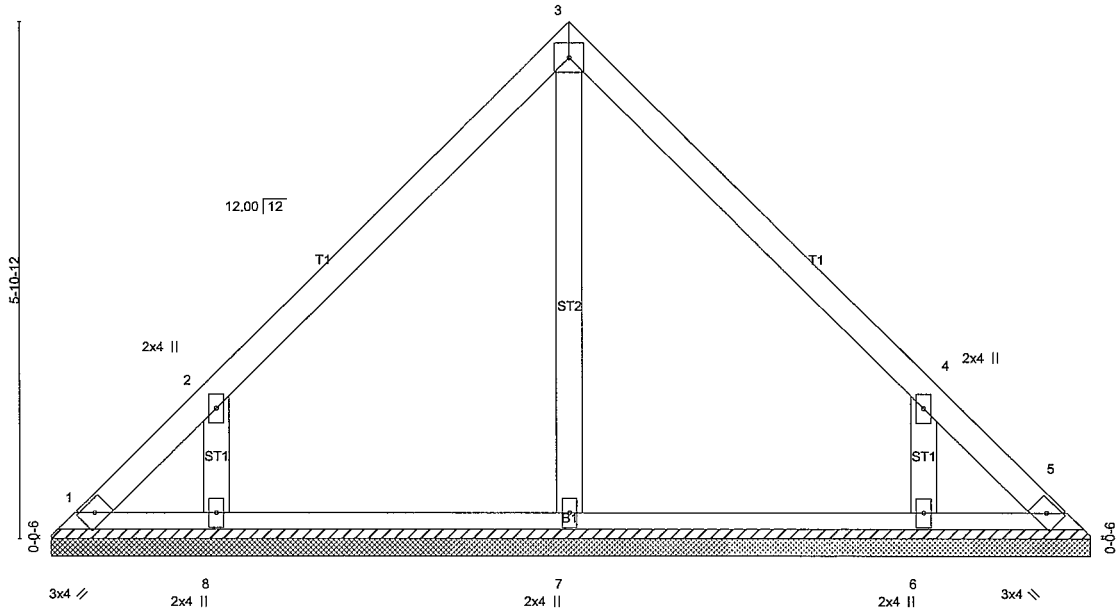
Comtech, Inc., Fayetteville, NC 28309, David Landry

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4x4 =

Scale = 1:25.0



<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.14	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 53 lb	FT = 20%

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 11-8-12.  
(lb) - Max Horz 1=-133(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-161(LC 12), 6=-160(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=338(LC 19), 6=338(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 2-8=-358/299, 4-6=-358/299

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 5-10-12, Exterior(2) 5-10-12 to 10-3-9, Interior(1) 10-3-9 to 11-5-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=161, 6=160.
  - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

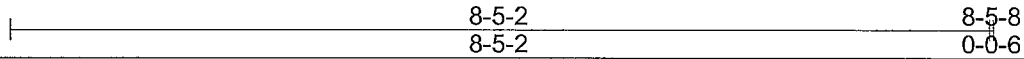
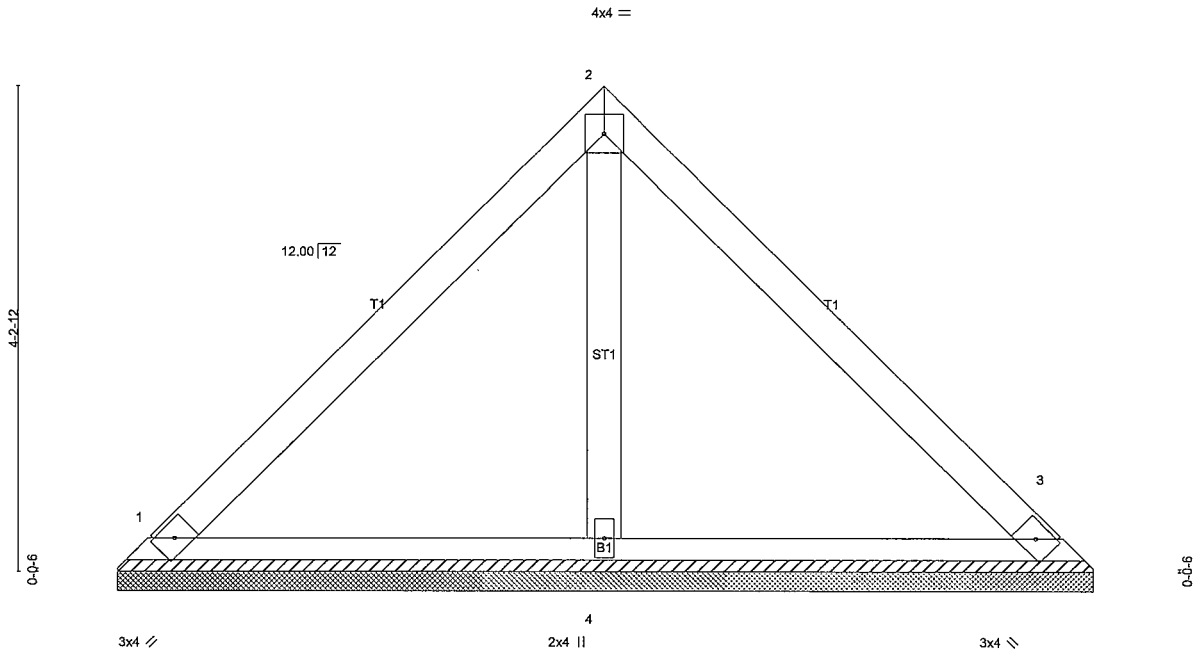
Job J0222-1061	Truss VL4	Truss Type VALLEY	Qty 1	Ply 1	Holland Residence
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Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Mar 1 16:07:58 2022 Page 1  
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Scale = 1:19.1



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.26	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.11	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 34 lb	FT = 20%
	Code IRC2015/TPI2014							

**LUMBER-**

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

**BRACING-**

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=189/8-4-12 (min. 0-1-8), 3=189/8-4-12 (min. 0-1-8), 4=243/8-4-12 (min. 0-1-8)  
Max Horz 1=-93(LC 8)  
Max Uplift 1=-34(LC 13), 3=-34(LC 13)

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

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

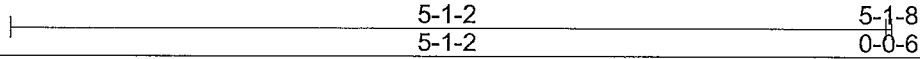
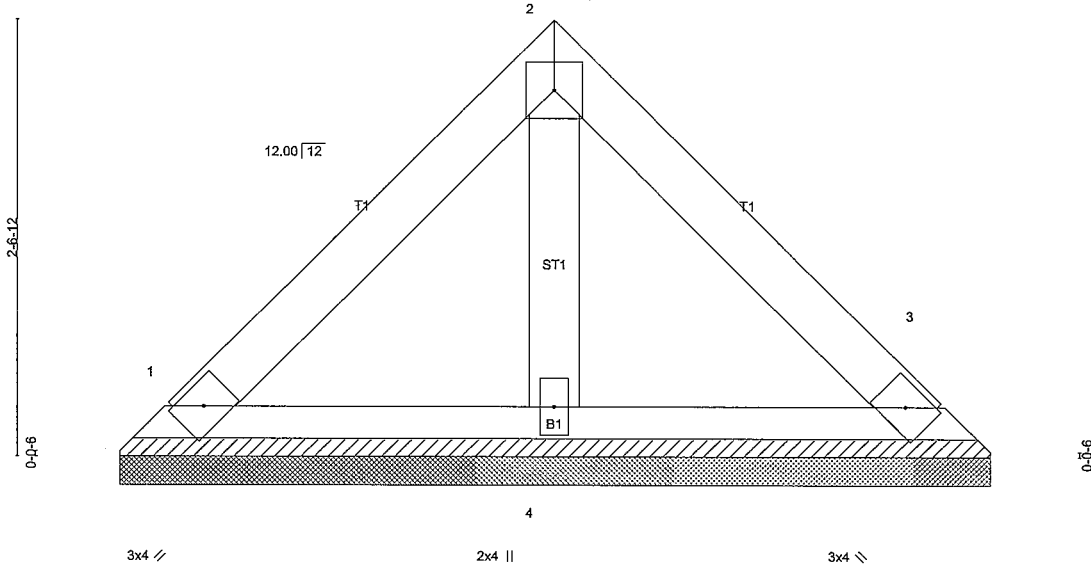
Job J0222-1061	Truss VL5	Truss Type VALLEY	Qty 1	Ply 1	Holland Residence
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Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Mar 1 16:07:59 2022 Page 1  
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Scale = 1:12.9



<b>LOADING (psf)</b>	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.08	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.01	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 20 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-1-8 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=108/5-0-12 (min. 0-1-8), 3=108/5-0-12 (min. 0-1-8), 4=138/5-0-12 (min. 0-1-8)  
Max Horz 1=-53(LC 8)  
Max Uplift 1=-19(LC 13), 3=-19(LC 13)

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

**NOTES-**

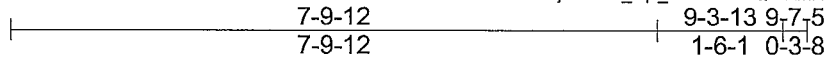
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

Job J0222-1061	Truss VT1	Truss Type VALLEY	Qty 1	Ply 1	Holland Residence
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Comtech, Inc., Fayetteville, NC 28309, David Landry

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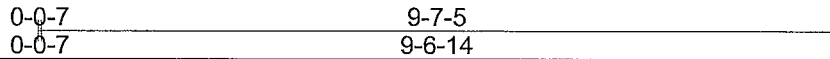
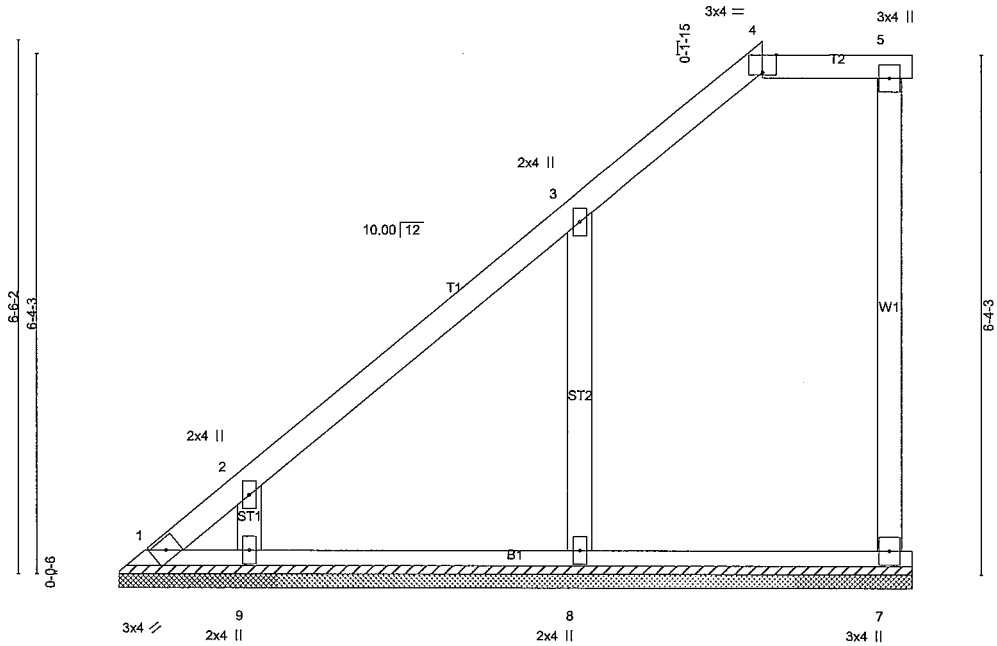


Plate Offsets (X,Y)- [4:0-2-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.01	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S							
									Weight: 47 lb	FT = 20%

**LUMBER-**  
 TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.1  
 WEBS 2x4 SP No.2  
 OTHERS 2x4 SP No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 9-6-14.  
 (lb) - Max Horz 1=198(LC 12)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 6=-100(LC 1), 8=-114(LC 12), 9=-110(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 6 except 7=275(LC 2), 8=463(LC 19), 9=274(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-388/335  
 WEBS 3-8=-337/274, 2-9=-298/243

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 7-9-12, Exterior(2) 7-9-12 to 9-7-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 6=100, 8=114, 9=110.
  - 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

Job J0222-1061	Truss VT2	Truss Type VALLEY	Qty 1	Ply 1	Holland Residence
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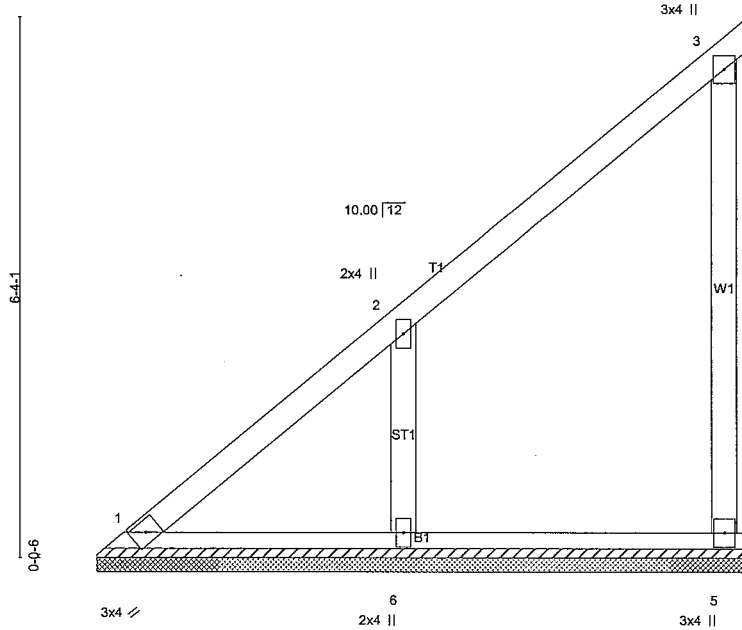
Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Mar 1 16:08:00 2022 Page 1  
ID:twd?SCwoJ8kxcOCjwNeOR\_zqs\_r-Cmz3qsb2gAZd3EB?uqv8zQlmFdsFoa00X2bmaTzFfB9

7-3-13  
7-3-13

7-7-5  
0-3-8

Scale = 1:25.7



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.19	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.15	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 37 lb	FT = 20%
	Code IRC2015/TPI2014							

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
WEBS 2x4 SP No.2  
OTHERS 2x4 SP No.2

**BRACING-**  
TOP CHORD 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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 7-6-14.  
(lb) - Max Horz 1=196(LC 12)  
Max Uplift All uplift 100 lb or less at joint(s) except 4=-136(LC 19), 5=-151(LC 12), 6=-125(LC 12)  
Max Grav All reactions 250 lb or less at joint(s) 1, 4 except 5=362(LC 19), 6=417(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-307/284, 3-5=-338/231  
WEBS 2-6=-357/283

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 7-7-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Gable requires continuous bottom chord bearing.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 5) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 4, 151 lb uplift at joint 5 and 125 lb uplift at joint 6.
  - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

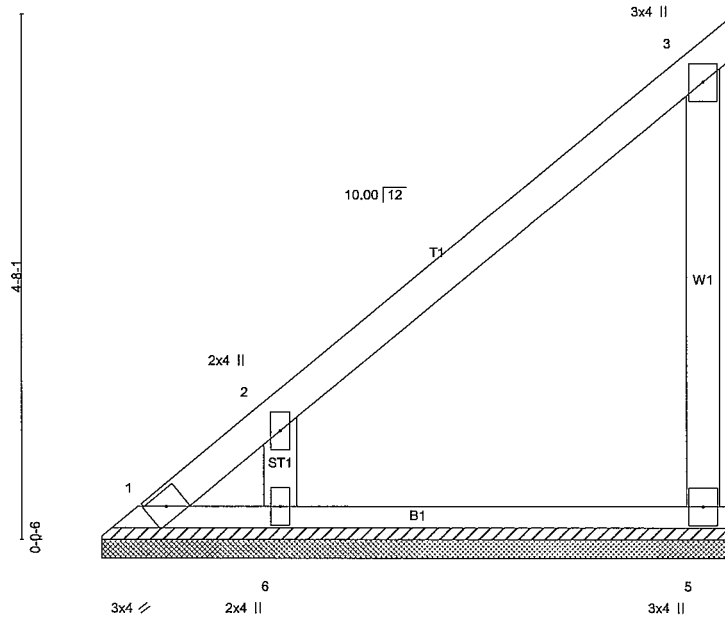
Job J0222-1061	Truss VT3	Truss Type VALLEY	Qty 1	Ply 1	Holland Residence
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Mar 1 16:08:01 2022 Page 1  
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5-3-13 5-7-5  
5-3-13 0-3-8

Scale = 1:19.5



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 25 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.1  
BOT CHORD 2x4 SP No.1  
WEBS 2x4 SP No.2  
OTHERS 2x4 SP No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-7-5 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 5-6-14.  
(lb) - Max Horz 1=141(LC 12)  
Max Uplift All uplift 100 lb or less at joint(s) 1 except 4=-183(LC 19), 5=-186(LC 12), 6=-101(LC 12)  
Max Grav All reactions 250 lb or less at joint(s) 1, 4 except 5=354(LC 19), 6=315(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-296/259, 3-5=-416/344  
WEBS 2-6=-304/257

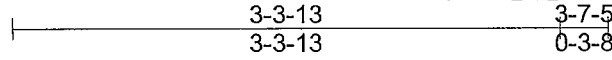
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 5-7-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Gable requires continuous bottom chord bearing.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 4=183, 5=186, 6=101.
  - 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard

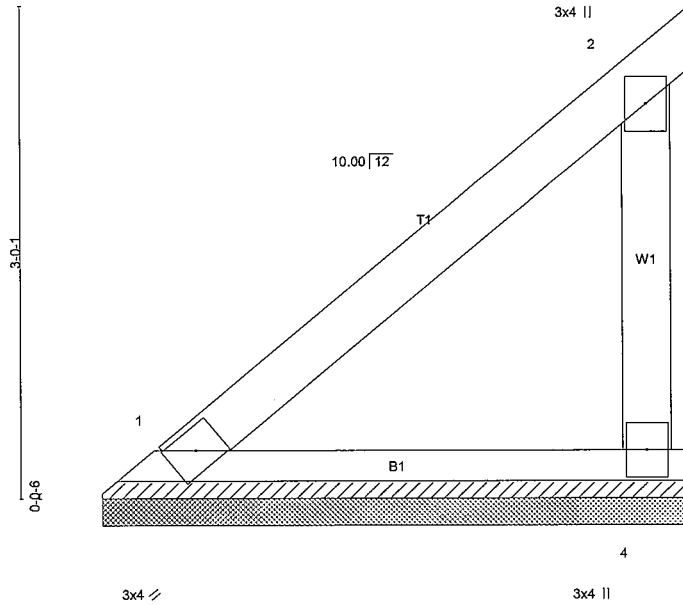
Job J0222-1061	Truss VT4	Truss Type VALLEY	Qty 1	Ply 1	Holland Residence
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Comtech, Inc., Fayetteville, NC 28309, David Landry

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Tue Mar 1 16:08:01 2022 Page 1  
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Scale = 1:13.4



<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.10	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P			
				Weight: 15 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 3-7-5 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 1=103/3-6-14 (min. 0-1-8), 3=151/3-6-14 (min. 0-1-8), 4=300/3-6-14 (min. 0-1-8)  
Max Horz 1=87(LC 12)  
Max Uplift 3=173(LC 19), 4=176(LC 12)  
Max Grav 1=103(LC 1), 3=108(LC 12), 4=338(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-4=398/340

**NOTES-**

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=173, 4=176.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard