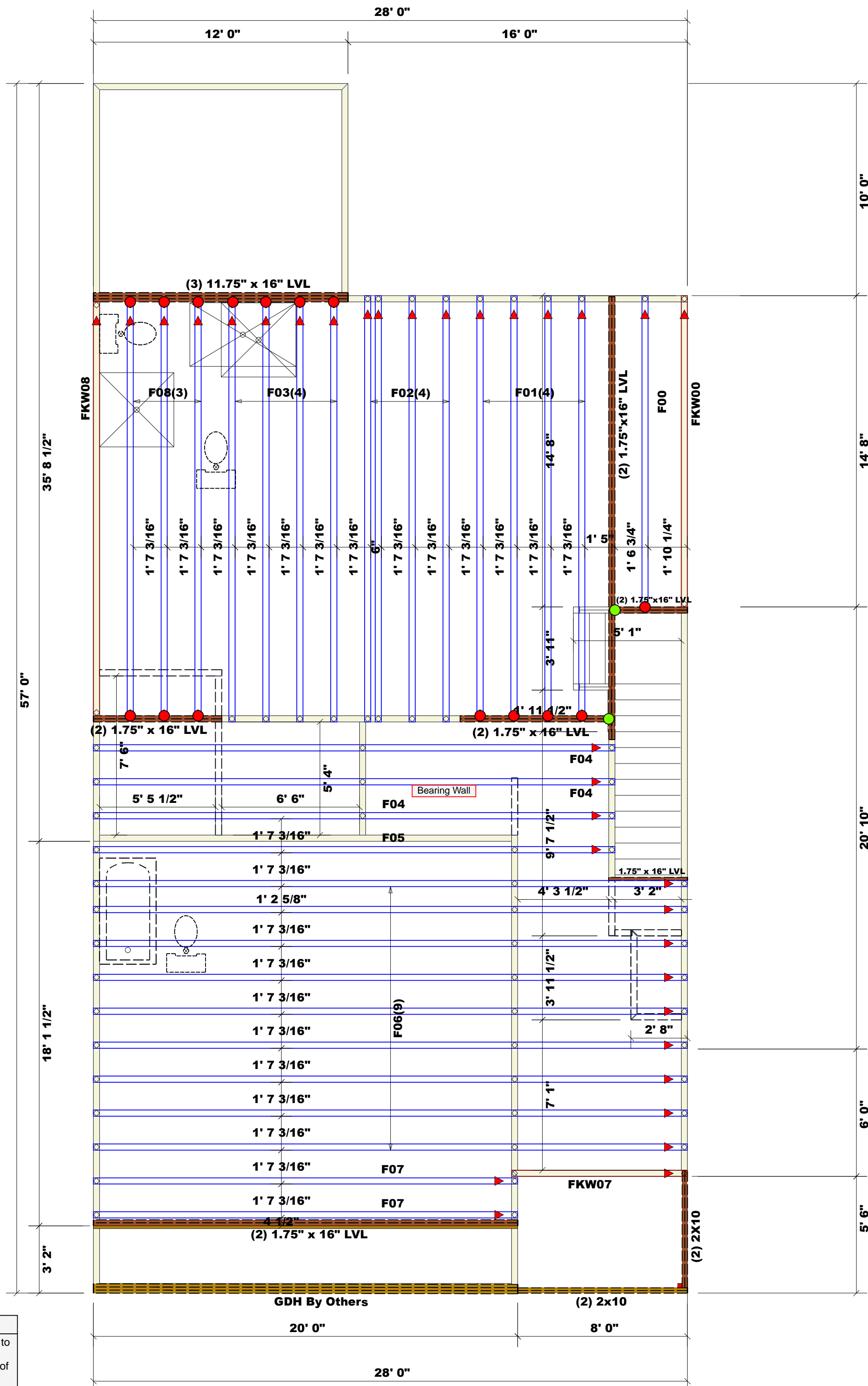


Floor Truss Plan



Nail Information		Connector Information				
Truss	Header	Supported Member	Qty	Manuf	Product	Sym
10d/3"	16d/3-1/2"	NA	2	USP	HD416	●
16d/3-1/2"	16d/3-1/2"	NA	15	USP	JUS414	●

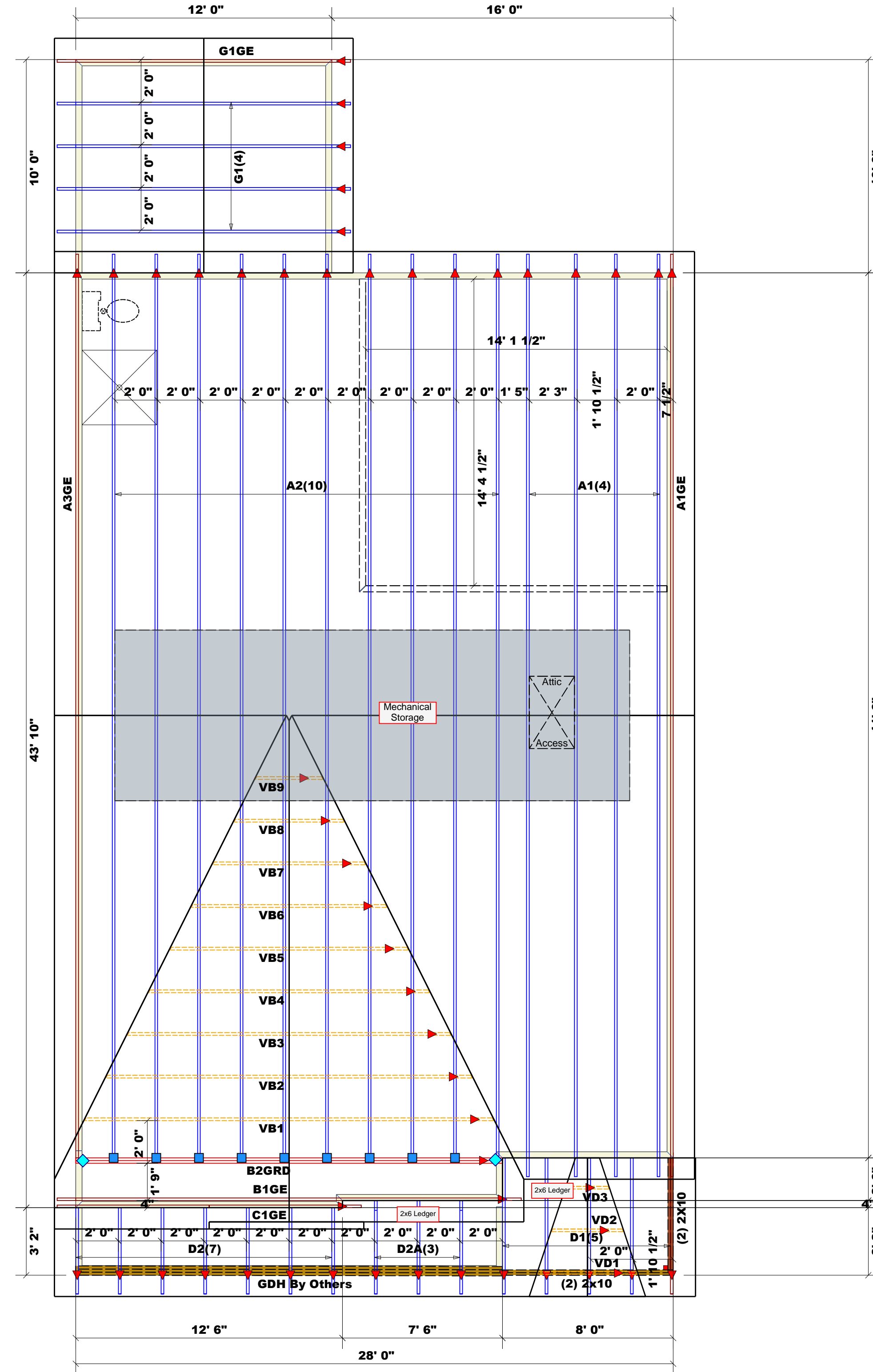
Dimension Notes
 1. All exterior wall to wall dimensions are to face of stud unless noted otherwise
 2. All interior wall dimensions are to face of stud unless noted otherwise
 3. All exterior wall to truss dimensions are to face of stud unless noted otherwise

All Walls Shown Are Considered Load Bearing

= Denotes Left End of Truss ▲
 (Reference Engineered Truss Drawing)

Products					
Net Qty	Plies	Product	Length	PlotID	
2	2	1-3/4"x 16" LVL Kerto-S	21' 0"	(2)	1.75"x16" LVL
2	2	1-3/4"x 16" LVL Kerto-S	20' 0"	(2)	1.75" x 16" LVL
3	3	1-3/4"x 16" LVL Kerto-S	12' 0"	(3)	11.75" x 16" LVL
4	2	1-3/4"x 16" LVL Kerto-S	7' 0"	(2)	1.75" x 16" LVL
1	1	1-3/4"x 16" LVL Kerto-S	4' 0"		1.75" x 16" LVL
2	2	1-3/4"x 16" LVL Kerto-S	4' 0"	(2)	1.75"x16" LVL

Roof Truss Plan



Nail Information		Connector Information				
Truss	Header	Supported Member	Qty	Manuf	Product	Sym
16d/3-1/2"	16d/3-1/2"	NA	9	USP	HUS26	●
10d/3"	10d/1-1/2"	NA	2	USP	HTW20	◆
10d/3"	10d/3"	NA	0	USP	JUS26	■

Dimension Notes
 1. All exterior wall to wall dimensions are to face of stud unless noted otherwise
 2. All interior wall dimensions are to face of stud unless noted otherwise
 3. All exterior wall to truss dimensions are to face of stud unless noted otherwise

1953.66 sq.ft. Roof Area
 64.58 ft. Ridge Line
 0.61 ft. Hip Line
 131.63 ft. Horiz. OH
 187.24 ft. Raked OH
 67 sheets Decking

= Denotes Left End of Truss ▲
 (Reference Engineered Truss Drawing)

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including bearing, bracing, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult ICC-ES EBC-405 provided with the truss delivery package or online @ secondary.com

Signature: *Hampton Horrocks*
 Hampton Horrocks

CITY / CO.	Lillington / Hammett
ADDRESS	659 Beacon Hill Road
MODEL	Roof & Floor
DATE REV.	05/25/25
DRAWN BY	Hampton Horrocks
SALES REP.	Hampton Horrocks

BUILDER	New Home, Inc.
JOB NAME	Lot 37 Duncan's Creek
PLAN	Smithfield French Country GL
SEAL DATE	08/30/24
QUOTE #	Quote #
JOB #	J0525-2623 & J0525-2624

LOAD CHART FOR JACK STUDS			
BASED ON TABLES 302.1 & 303			
NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADERS/BEAMS			
REQ'D STUDS FOR 10' SPACING	REQ'D STUDS FOR 12' SPACING	REQ'D STUDS FOR 14' SPACING	REQ'D STUDS FOR 16' SPACING
1700 1	2550 1	3400 1	
3400 2	5100 2	6800 2	
5100 3	7650 3	10200 3	
6800 4	10200 4	13600 4	
8500 5	12750 5	17000 5	
10200 6	15300 6		
11900 7			
13600 8			
15300 9			

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0525-2624
Lot 37 Duncan's Creek

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

Pages or sheets covered by this seal: I73542474 thru I73542485

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

North Carolina COA: C-0844



May 19, 2025

Gilbert, Eric

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

Job	Truss	Truss Type	Qty	Ply	Lot 37 Duncan's Creek
J0525-2624	F00	Floor	1	1	173542474

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 16:23:33 2025 Page 1
ID: _09zqKsf9De2KkT15adaCvyCKWg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRCDoi7J4zJC?f

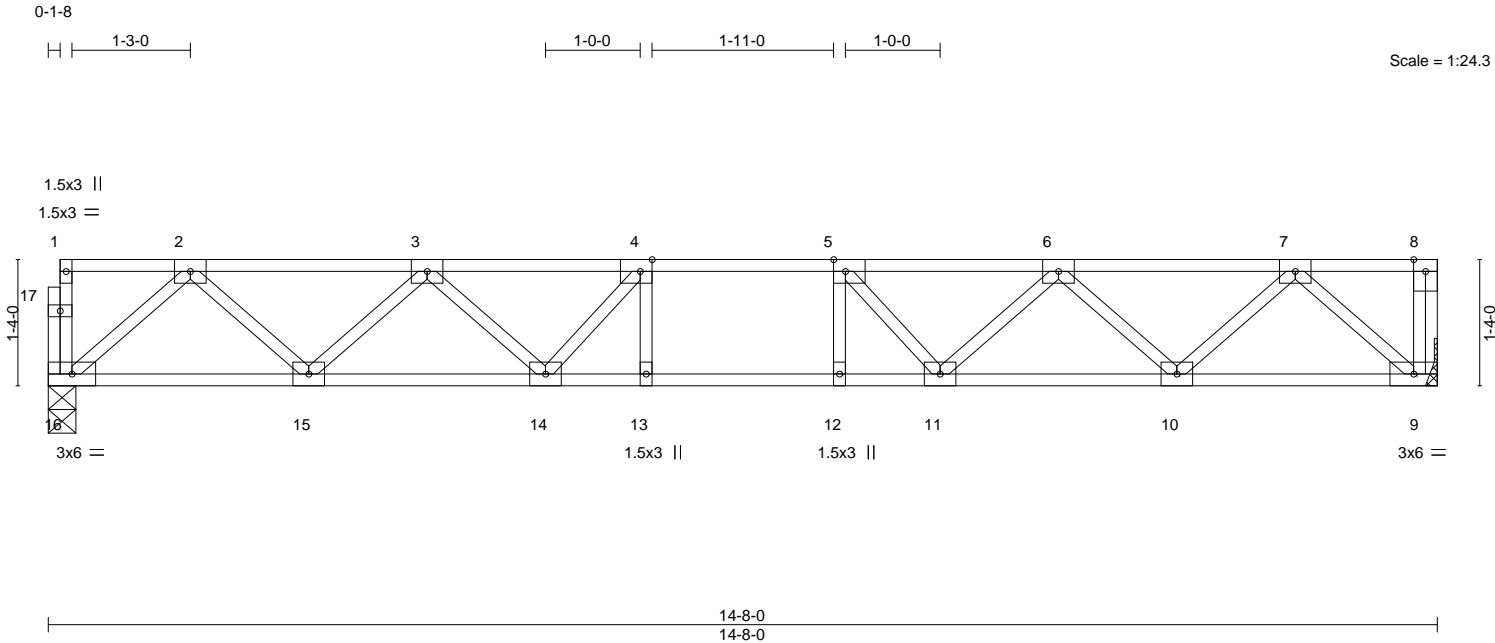


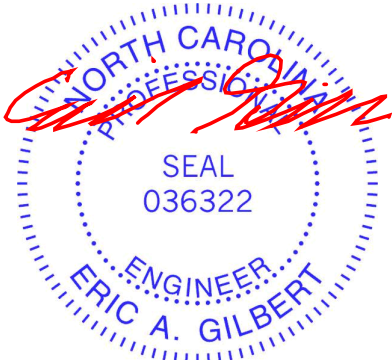
Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]											
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.32	Vert(LL)	-0.11 11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.15 11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.03 9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S						Weight: 77 lb	FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.1(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3(flat)		

REACTIONS. (size) 16=0-3-8, 9=Mechanical
Max Grav 16=787(LC 1), 9=793(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1383/0, 3-4=-2143/0, 4-5=-2341/0, 5-6=-2143/0, 6-7=-1383/0
BOT CHORD 15-16=0/842, 14-15=0/1893, 13-14=0/2341, 12-13=0/2341, 11-12=0/2341, 10-11=0/1893, 9-10=0/843
WEBS 2-16=-1119/0, 2-15=0/752, 3-15=-710/0, 3-14=0/414, 7-9=-1122/0, 7-10=0/752, 6-10=-710/0, 6-11=0/414, 5-11=-471/0, 4-14=-471/0

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



May 19,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacompoments.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Comtech, Inc. Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 16:23:33 2025 Page 1
ID: 09zqKsf9de2Kkt15adaCvyCKWg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcD0i7J4zJC?f

1.5x3 ||
1.5x3 = 4x4 =
1.5x3 ||
3x6 FP =
4x4 =
1.5x3 ||
1.5x3 ||
3x6 =
4x4 =
3x6 =
1.5x3 ||
1.5x3 ||
3x6 =
4x4 =
3x6 =

1 2 3 4 5 6 7 8 9 10 11 12 13
24 23 22 21 20 19 18 17 16 15 14

1'-4"0"
1'-4"0"
19'-9"8"
19'-9"8"

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1 (flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.1 (flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3 (flat)		

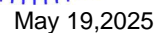
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1591/0, 3-4=-2703/0, 4-5=-2703/0, 5-6=-3298/0, 6-7=-3448/0, 7-8=-3304/0, 8-10=-2705/0, 10-11=-2705/0, 11-12=-1591/0

BOT CHORD 23-24=0/931, 22-23=0/2228, 20-22=0/3096, 19-20=0/3448, 18-19=0/3448, 16-17=0/3096, 15-16=0/2228, 14-15=0/931

WEBS 2-24=-1237/0, 2-23=0/919, 3-23=-886/0, 3-22=0/645, 12-14=-1240/0, 12-15=0/918, 11-15=-886/0, 11-16=0/649, 8-16=-522/0, 8-17=0/426, 5-22=-535/0, 5-20=0/401, 6-20=-470/86, 7-17=-497/90

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



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

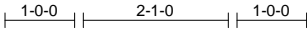
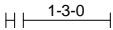


Job	Truss	Truss Type	Qty	Ply	Lot 37 Duncan's Creek
J0525-2624	F02	Floor	4	1	173542476

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 16:23:33 2025 Page 1
ID: _09zqKsf9De2KkT15adaCvyCKWg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-1-8



0-1-8
Scale = 1:33.1

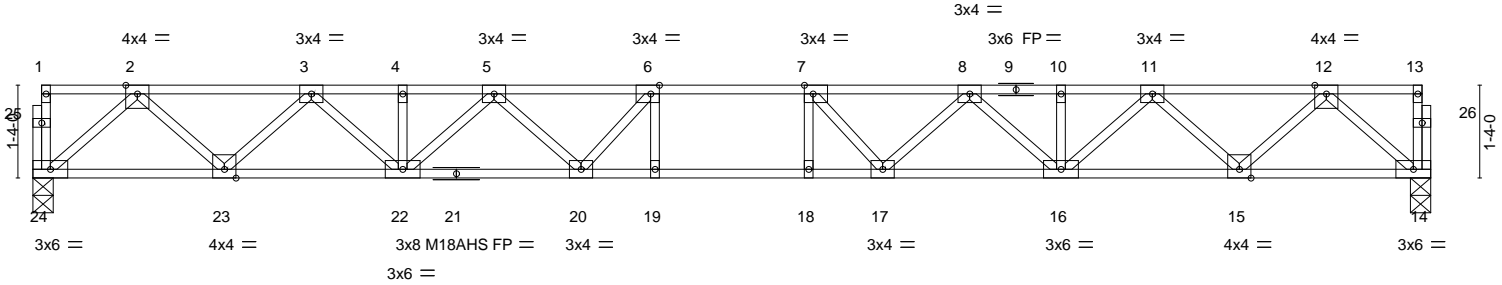


Plate Offsets (X,Y)--		[6:0-1-8,Edge], [7:0-1-8,Edge]	
LOADING (psf)	SPACING-	1-7-3	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.40
TCDL 10.0	Lumber DOL	1.00	BC 0.88
BCLL 0.0	Rep Stress Incr	YES	WB 0.45
BCDL 5.0	Code	IRC2021/TP12014	Matrix-S
		DEFL.	in (loc)
		Vert(LL)	-0.27 18-19 >884 480
		Vert(CT)	-0.37 18-19 >641 360
		Horz(CT)	0.07 14 n/a n/a
		PLATES	GRIP
		MT20	244/190
		M18AHS	186/179
		Weight: 106 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 24=0-3-8, 14=0-3-8
Max Grav 24=867(LC 1), 14=867(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1619/0, 3-4=-2758/0, 4-5=-2758/0, 5-6=-3380/0, 6-7=-3552/0, 7-8=-3380/0, 8-10=-2758/0, 10-11=-2758/0, 11-12=-1619/0
BOT CHORD 23-24=0/945, 22-23=0/2269, 20-22=0/3163, 19-20=0/3552, 18-19=0/3552, 17-18=0/3552, 16-17=0/3163, 15-16=0/2269, 14-15=0/945
WEBS 2-24=-1256/0, 2-23=0/937, 3-23=-905/0, 3-22=0/665, 5-22=-550/0, 5-20=0/423, 12-14=-1256/0, 12-15=0/937, 11-15=-905/0, 11-16=0/665, 8-16=-550/0, 8-17=0/423, 7-17=-506/76, 6-20=-506/76

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

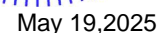
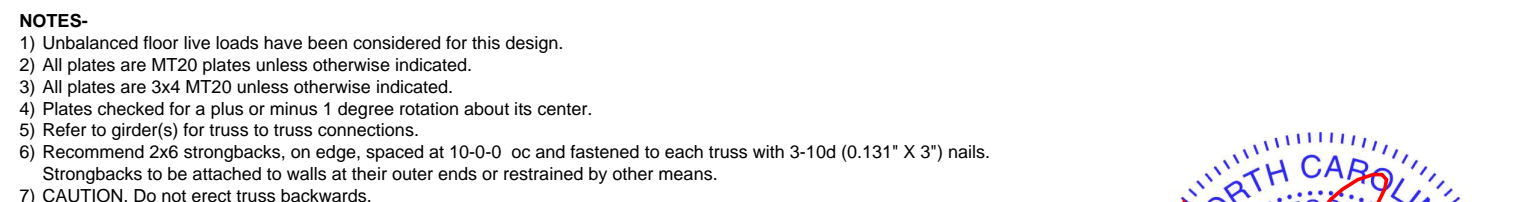


May 19,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacompoments.com)

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Comtech, Inc. Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 16:23:34 2025 Page 1
ID:_09zgKsf9De2KkT15adaCvyCKWg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?/



Job	Truss	Truss Type	Qty	Ply	Lot 37 Duncan's Creek
J0525-2624	F04	Floor	3	1	173542478
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 16:23:34 2025 Page 1
ID:_09zqKsf9De2KkT15adaCvyCKWg-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?f

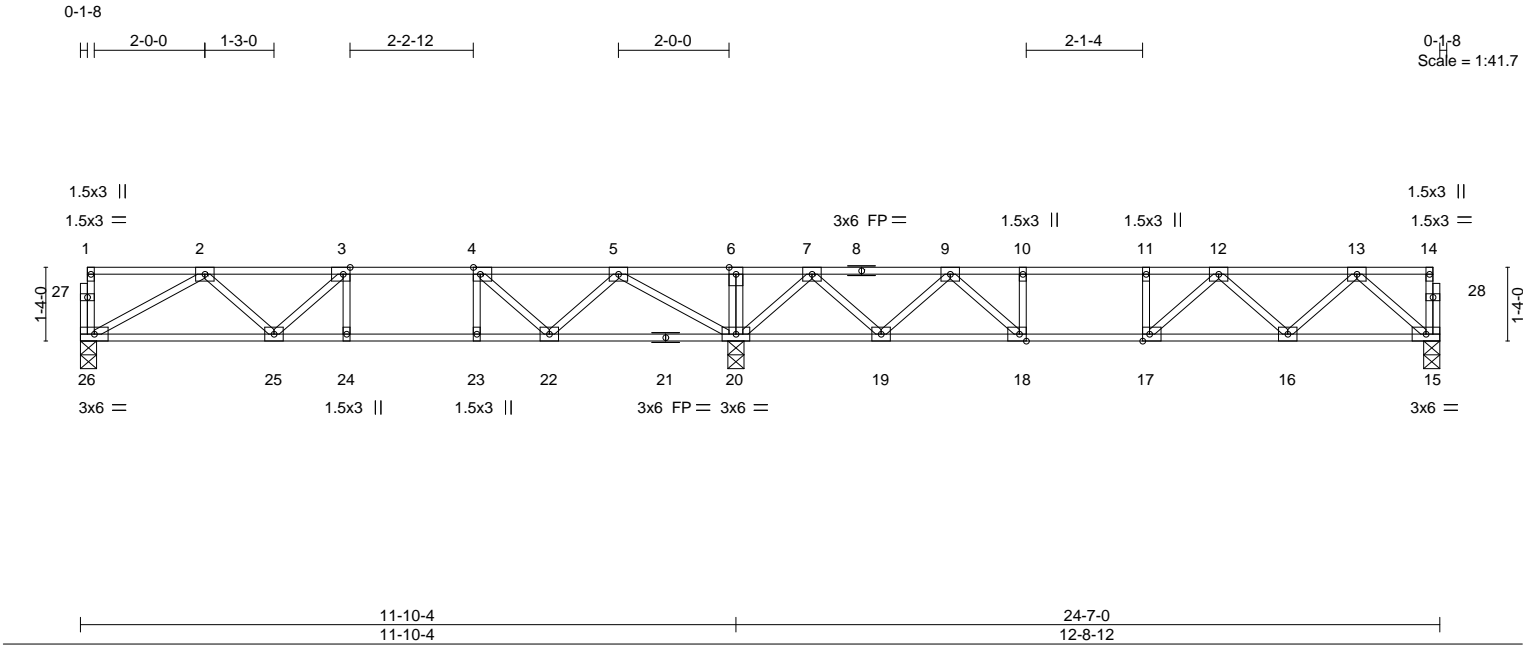


Plate Offsets (X,Y)--		[3:0-1-8,Edge], [4:0-1-8,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge]	
LOADING (psf)	SPACING-	1-7-3	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.38
TCDL 10.0	Lumber DOL	1.00	BC 0.49
BCLL 0.0	Rep Stress Incr	YES	WB 0.27
BCDL 5.0	Code	IRC2021/TPI2014	Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.08 16-17	>999	480
Vert(CT)	-0.10 16-17	>999	360
Horz(CT)	0.02 15	n/a	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 125 lb		FT = 20%F, 11%E	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.1(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 20-22,19-20.
WEBS	2x4 SP No.3(flat)		
REACTIONS.			
(size) 26=0-3-8, 20=0-3-8, 15=0-3-8			
Max Grav 26=474(LC 10), 20=1191(LC 1), 15=518(LC 7)			
FORCES.			
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.			
TOP CHORD	2-3=-905/0, 3-4=-1055/0, 4-5=-755/16, 5-6=0/720, 6-7=0/718, 7-9=-667/34, 9-10=-1256/0, 10-11=-1256/0, 11-12=-1256/0, 12-13=-867/0		
BOT CHORD	25-26=0/712, 24-25=0/1055, 23-24=0/1055, 22-23=0/1055, 20-22=-143/475, 19-20=-166/300, 18-19=0/1027, 17-18=0/1256, 16-17=0/1149, 15-16=0/551		
WEBS	2-26=-816/0, 5-20=-973/0, 5-22=0/452, 4-22=-507/0, 2-25=0/267, 7-20=-854/0, 7-19=0/564, 9-19=-568/0, 9-18=0/466, 13-15=-732/0, 13-16=0/439, 12-16=-393/0		

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - All plates are 3x4 MT20 unless otherwise indicated.
 - Plates checked for a plus or minus 1 degree rotation about its center.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.



May 19,2025

Job	Truss	Truss Type	Qty	Ply	Lot 37 Duncan's Creek
J0525-2624	F05	Floor	1	1	173542479

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 16:23:35 2025 Page 1
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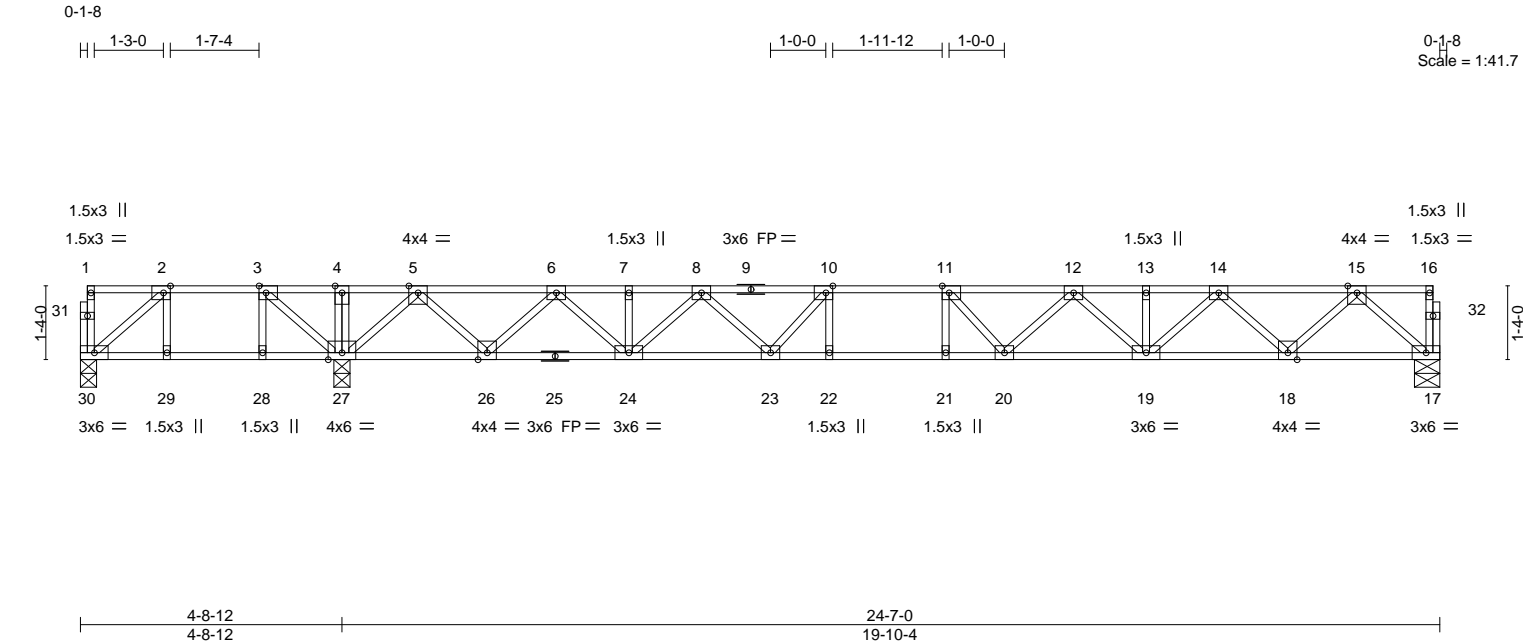


Plate Offsets (X,Y)--		[2:0-1-8,Edge], [3:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge]	
LOADING (psf)	SPACING-	CSL.	DEFL.
TCLL 40.0	Plate Grip DOL 1.00	TC 0.71	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.00	BC 0.90	Vert(LL) -0.24 21 >974 480
BCLL 0.0	Rep Stress Incr YES	WB 0.49	Vert(CT) -0.33 21 >710 360
BCDL 5.0	Code IRC2021/TPI2014	Matrix-S	Horz(CT) 0.05 17 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 130 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 29-30,28-29,27-28.
WEBS 2x4 SP No.3(flat)	

REACTIONS.	(size) 30=0-3-8, 27=0-3-8, 17=0-5-8
	Max Uplift 30=-186(LC 4)
	Max Grav 30=130(LC 3), 27=1369(LC 1), 17=809(LC 7)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-53/405, 3-4=0/980, 4-5=0/980, 5-6=-854/0, 6-7=-2096/0, 7-8=-2096/0, 8-10=-2822/0, 10-11=-3079/0, 11-12=-3003/0, 12-13=-2506/0, 13-14=-2506/0, 14-15=-1493/0
BOT CHORD	29-30=-405/53, 28-29=-405/53, 27-28=-405/53, 24-26=0/1551, 23-24=0/2544, 22-23=0/3079, 21-22=0/3079, 20-21=0/3079, 19-20=0/2859, 18-19=0/2083, 17-18=0/879
WEBS	2-30=-65/535, 3-27=-865/0, 5-27=-1369/0, 5-26=0/1019, 6-26=-979/0, 6-24=0/748, 15-17=-1168/0, 15-18=0/854, 14-18=-820/0, 14-19=0/575, 12-19=-480/0, 12-20=0/329, 8-24=-616/0, 8-23=0/465, 10-23=-569/0, 11-20=-368/154

- NOTES-
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Plates checked for a plus or minus 1 degree rotation about its center.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 30=186.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) CAUTION, Do not erect truss backwards.



May 19,2025

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 16:23:35 2025 Page 1
ID: 09zqKsf9De2KkT15adaCvvCKWg-RfC?PsB70Hg3NSgPanL8w3ulTxbGKWrCDoi7J4zJC?r

LUMBER-

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

BRACING-

Structural wood sheathing directly applied or 6-0-0 oc purlins,
except end verticals.
Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS.

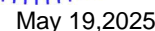
(size) 32=0-3-8, 29=0-3-8, 19=0-5-8
Max Uplift 32=-77(LC 4)
Max Grav 32=290(LC 3), 29=1474(LC 1), 19=797(LC 7)

FORCES.

- Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 2-3=-376/411, 3-4=-376/411, 4-5=-376/411, 5-6=0/1270, 6-7=0/1270, 7-8=-693/0,
 8-9=-1961/0, 9-11=-1961/0, 11-12=-2712/0, 12-13=-2988/0, 13-14=-2931/0,
 14-15=-2457/0, 15-16=-2457/0, 16-17=1469/0
 31-32=-139/305, 30-31=-411/376, 29-30=-804/83, 28-29=-259/0, 26-28=0/1407,
 25-26=0/2420, 24-25=0/2988, 23-24=0/2988, 22-23=0/2988, 21-22=0/2800, 20-21=0/2047,
 19-20=0/866
 2-32=-377/172, 2-31=-371/97, 5-29=-762/0, 5-30=0/728, 4-30=-377/0, 7-29=-1344/0,
 7-28=0/1052, 8-28=-1014/0, 8-26=0/775, 17-19=-1151/0, 17-20=0/838, 16-20=-804/0,
 16-21=0/558, 14-21=-466/0, 14-22=0/304, 11-26=-640/0, 11-25=0/483, 12-25=-595/0,
 13-22=-330/181

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0" oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION. Do not erect truss backwards.



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for a building building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcbcomponents.com)



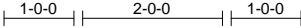
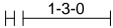
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 37 Duncan's Creek
J0525-2624	F07	Floor	2	1	I73542481

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 16:23:36 2025 Page 1
ID:_09zqKsf9De2KkT15adaCvyCKWg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-1-8



0-1-8
Scale = 1:33.0

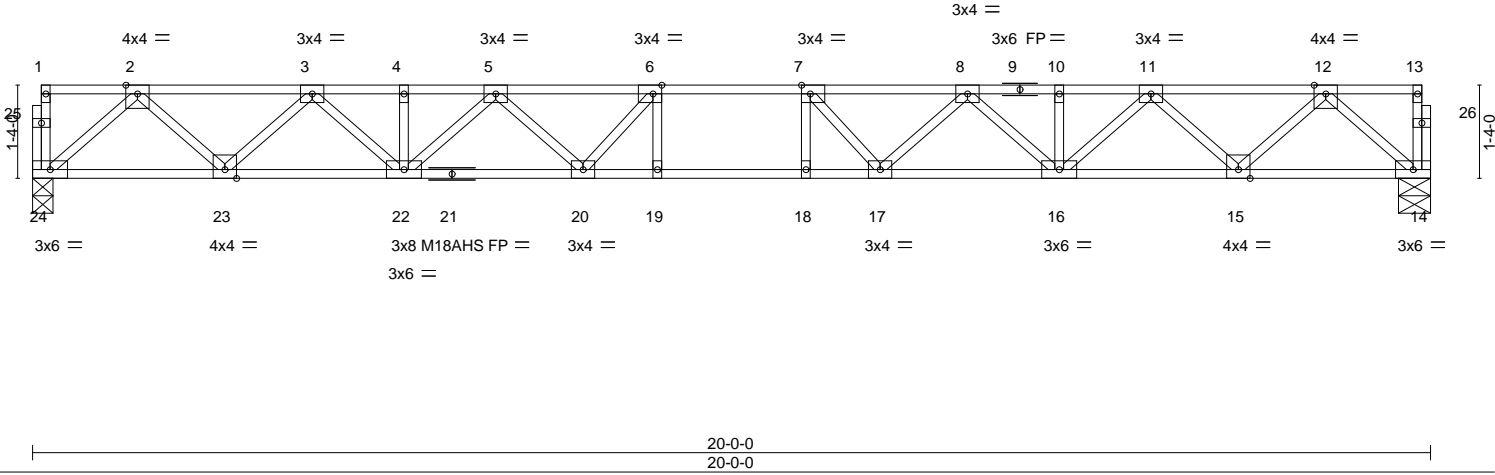


Plate Offsets (X,Y)-- [6:0-1-8,Edge], [7:0-1-8,Edge]		20-0-0		20-0-0	
LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc) l/defl L/d
TCLL 40.0	Plate Grip DOL	1.00	TC 0.38	Vert(LL)	-0.26 18-19 >895 480
TCDL 10.0	Lumber DOL	1.00	BC 0.86	Vert(CT)	-0.37 18-19 >649 360
BCLL 0.0	Rep Stress Incr	YES	WB 0.44	Horz(CT)	0.07 14 n/a n/a
BCDL 5.0	Code IRC2021/TP12014		Matrix-S		
				PLATES	GRIP
				MT20	244/190
				M18AHS	186/179
				Weight: 105 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 24=0-3-8, 14=0-5-8
Max Grav 24=863(LC 1), 14=863(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1611/0, 3-4=-2743/0, 4-5=-2743/0, 5-6=-3356/0, 6-7=-3524/0, 7-8=-3356/0,
8-10=-2743/0, 10-11=-2743/0, 11-12=-1611/0
BOT CHORD 23-24=0/941, 22-23=0/2258, 20-22=0/3144, 19-20=0/3524, 18-19=0/3524, 17-18=0/3524,
16-17=0/3144, 15-16=0/2258, 14-15=0/941
WEBS 2-24=-1251/0, 2-23=0/932, 3-23=-899/0, 3-22=0/659, 12-14=-1251/0, 12-15=0/932,
11-15=-899/0, 11-16=0/659, 8-16=-546/0, 8-17=0/415, 5-22=-546/0, 5-20=0/415,
6-20=-495/78, 7-17=-495/78

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



May 19,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacompnents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 37 Duncan's Creek
J0525-2624	F08	Floor	3	1	I73542482

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 16:23:36 2025 Page 1
ID: _09zqKsf9De2KkT15adaCvyCKWg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

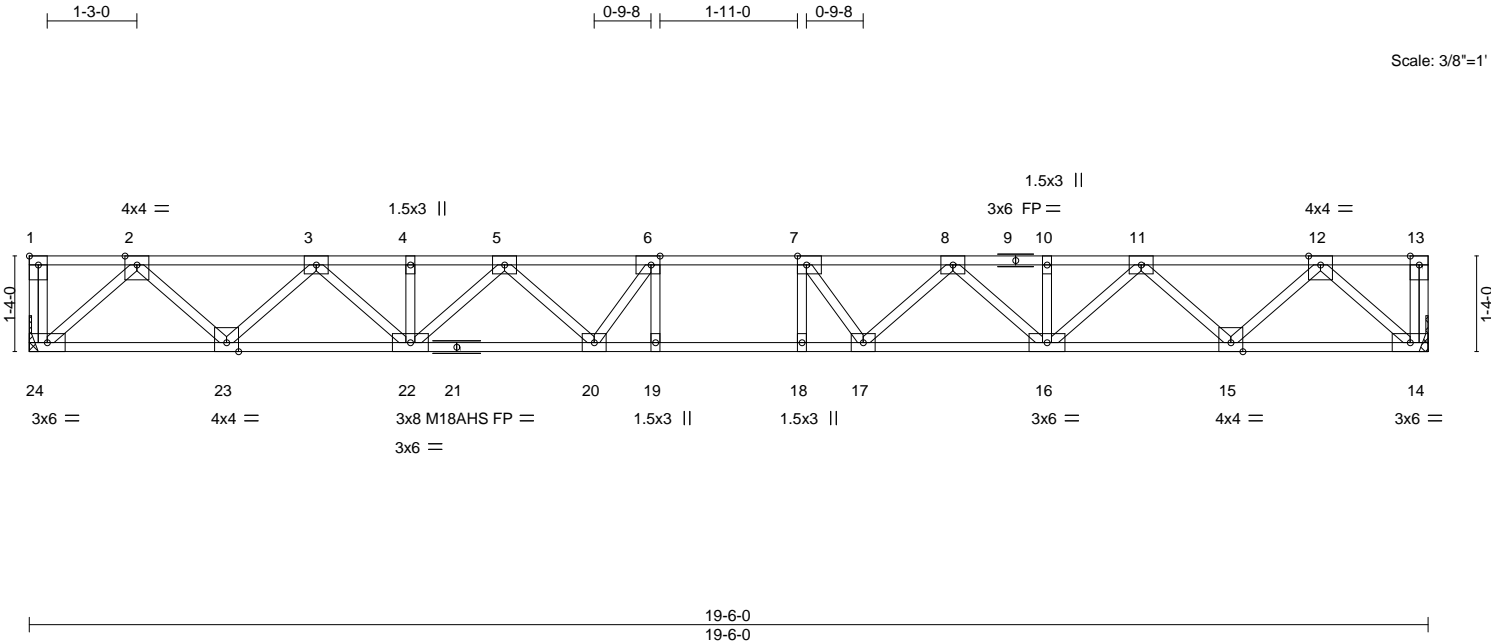


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [7:0-1-8,Edge]									
LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.35	Vert(LL)	-0.24 18-19	>963	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.81	Vert(CT)	-0.33 18-19	>698	360	M18AHS	186/179
BCLL 0.0	Rep Stress Incr	YES	WB 0.43	Horz(CT)	0.06 14	n/a	n/a		
BCDL 5.0	Code IRC2021/TP12014		Matrix-S					Weight: 104 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 24=Mechanical, 14=Mechanical
Max Grav 24=846(LC 1), 14=846(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1564/0, 3-4=-2650/0, 4-5=-2650/0, 5-6=-3221/0, 6-7=-3347/0, 7-8=-3221/0, 8-10=-2650/0, 10-11=-2650/0, 11-12=-1564/0
BOT CHORD 23-24=0/917, 22-23=0/2187, 20-22=0/3022, 19-20=0/3347, 18-19=0/3347, 17-18=0/3347, 16-17=0/3022, 15-16=0/2187, 14-15=0/917
WEBS 2-24=-1220/0, 2-23=0/900, 3-23=-867/0, 3-22=0/629, 5-22=-506/0, 5-20=0/404, 12-14=-1220/0, 12-15=0/900, 11-15=-867/0, 11-16=0/629, 8-16=-506/0, 8-17=0/404, 7-17=-461/100, 6-20=-461/100

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



May 19,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacompoments.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 37 Duncan's Creek
J0525-2624	FKW00	GABLE	1	1	173542483

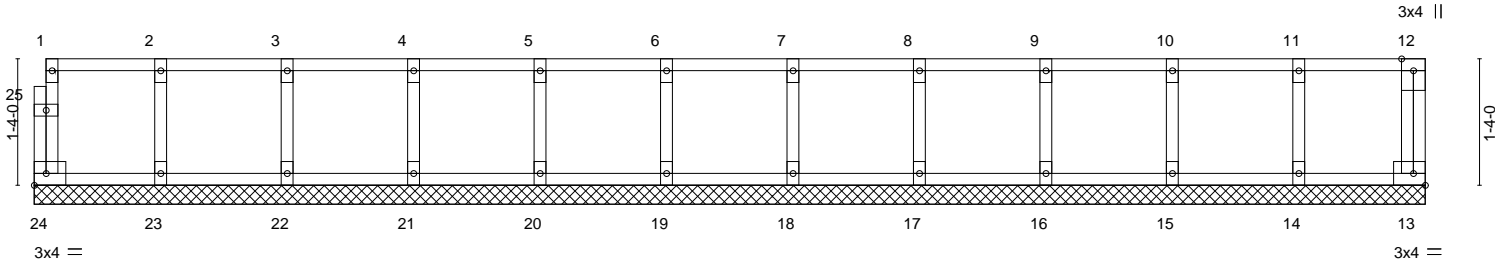
Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 16:23:37 2025 Page 1
ID: _09zqKsf9De2KkT15adaCvyCKWg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRCDoi7J4zJC?f

0-1,8

0-1,8

Scale = 1:24.3



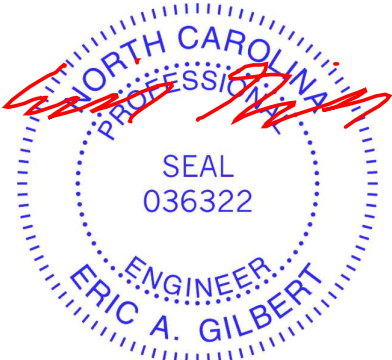
1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	13	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-R						Weight: 66 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

REACTIONS. All bearings 14-8-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

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

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



May 19,2025

Job	Truss	Truss Type	Qty	Ply	Lot 37 Duncan's Creek
J0525-2624	FKW07	Floor Supported Gable	1	1	173542484
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC 28309

8.630 s Aug 30 2023 MiTek Industries, Inc. Mon May 19 15:06:25 2025 Page 1

ID: _09zqKsf9De2KkT15adaCvyCKWg-AHnOqIH5oWSJ7ztN?iV1I7Q7Ank_hVO?KXYi4zF3Xy

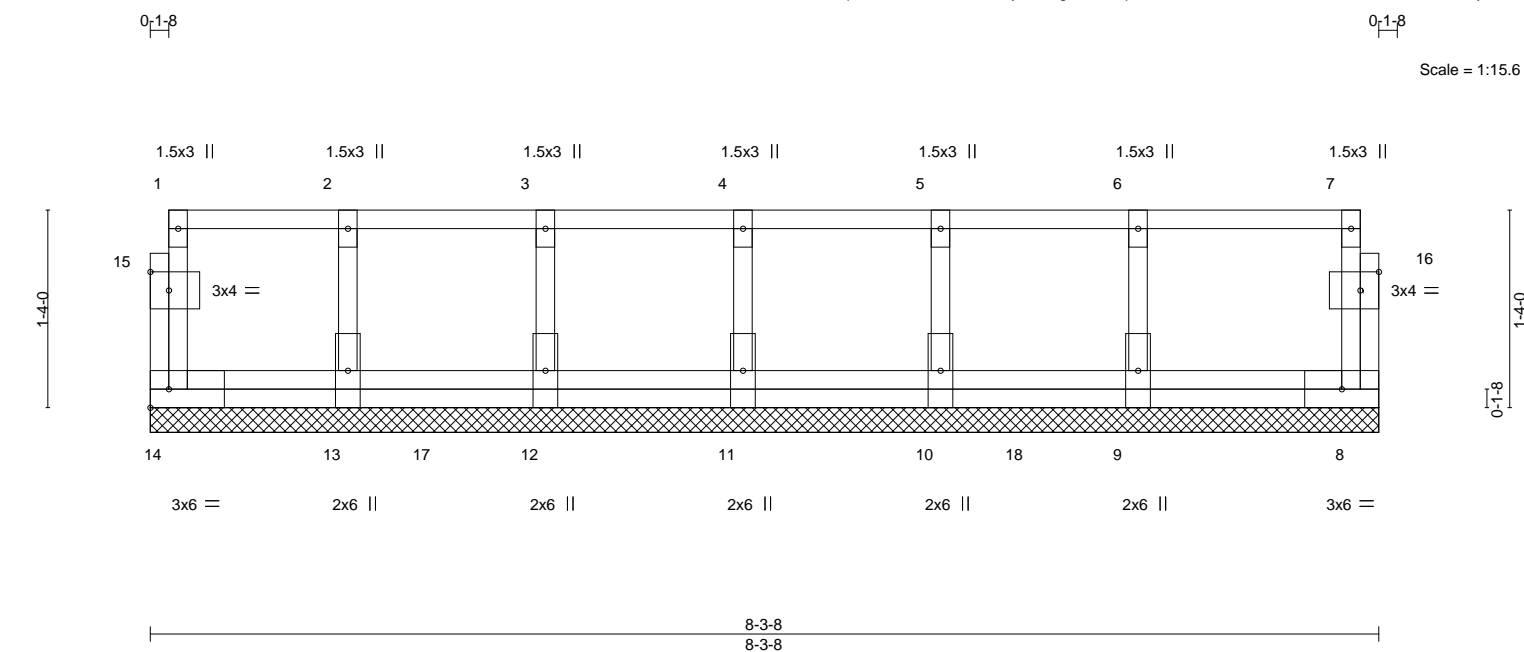


Plate Offsets (X,Y)-- [15:0-1-8,0-1-8], [16:0-1-8,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1-7-3	TC	0.08	Plate (LL)	n/a -	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.03	Vert(CT)	n/a -		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00 8		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R				Weight: 49 lb	FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.1(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3(flat)		
OTHERS	2x4 SP No.3(flat)		

REACTIONS. All bearings 8-3-8.

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

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

NOTES-

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

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 8-14=-8, 1-7=-80

Concentrated Loads (lb)

Vert: 7=-96 11=-98 17=-98 18=-98



May 19,2025

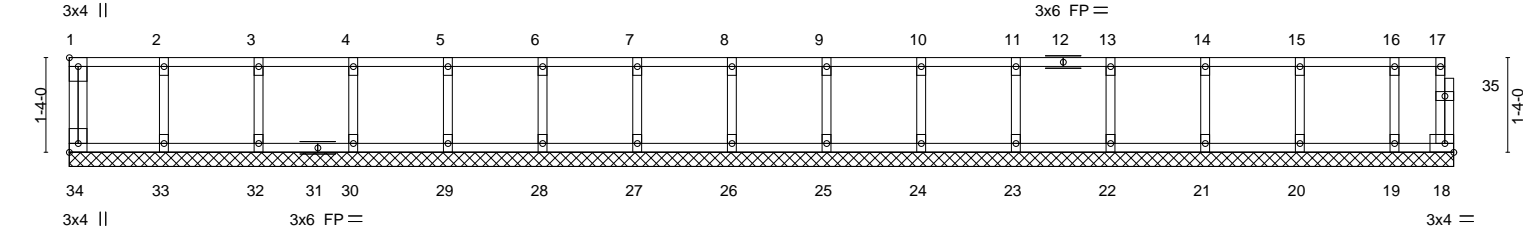
Job	Truss	Truss Type	Qty	Ply	Lot 37 Duncan's Creek
J0525-2624	FKW08	GABLE	1	1	173542485

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 16:23:37 2025 Page 1
ID: _09zqKsf9De2KkT15adaCvyCKWg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-1-8

Scale = 1:32.5



1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	19-6-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-10-0

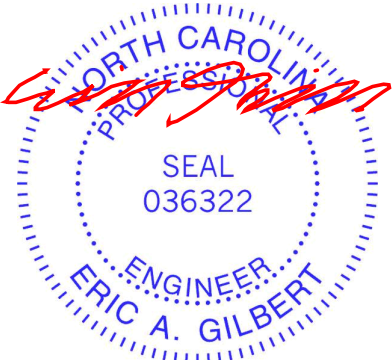
Plate Offsets (X,Y)-- [1:Edge,0-1-8], [34:Edge,0-1-8]		LOADING (psf)		SPACING- 1-7-3		CSI.		DEFL.		PLATES		GRIP	
		TCLL 40.0		Plate Grip DOL 1.00		TC 0.05		Vert(LL) n/a - n/a 999		MT20		244/190	
		TCDL 10.0		Lumber DOL 1.00		BC 0.01		Vert(CT) n/a - n/a 999					
		BCLL 0.0		Rep Stress Incr YES		WB 0.03		Horz(CT) 0.00 18 n/a n/a					
		BCDL 5.0		Code IRC2021/TPI2014		Matrix-R				Weight: 87 lb		FT = 20%F, 11%E	

LUMBER-		BRACING-	
TOP CHORD 2x4 SP No.1(flat)		TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	
BOT CHORD 2x4 SP No.1(flat)		BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.	
WEBS 2x4 SP No.3(flat)			
OTHERS 2x4 SP No.3(flat)			

REACTIONS. All bearings 19-6-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 34, 18, 33, 32, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Plates checked for a plus or minus 1 degree rotation about its center.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 5) Gable studs spaced at 1-4-0 oc.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 7) CAUTION, Do not erect truss backwards.



May 19,2025

Symbols

PLATE LOCATION AND ORIENTATION



* Plate location details available in MITek software or upon request.

PLATE SIZE

4 X 4

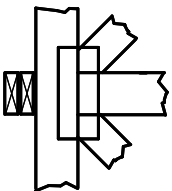
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

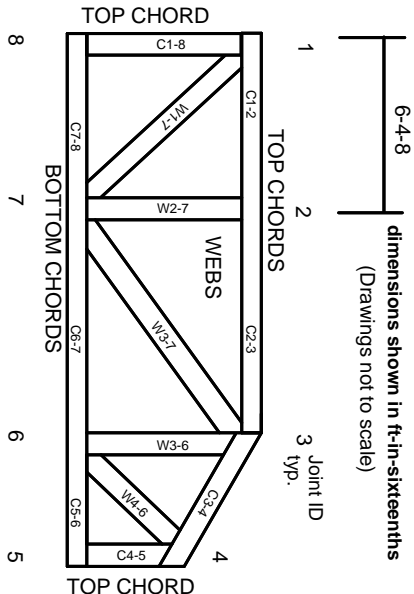
BEARING



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

Industry Standards:
ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:
ESR-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

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

Lumber design values are in accordance with ANSI/TP1 section 6.3. These truss designs rely on lumber values established by others.

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

MITek®

ENGINEERING BY
TRENCO
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MITek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0525-2623
Lot 37 Duncan's Creek

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

Pages or sheets covered by this seal: I73542450 thru I73542473

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

North Carolina COA: C-0844



May 16, 2025

Gilbert, Eric

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

Job	Truss	Truss Type	Qty	Ply	Lot 37 Duncan's Creek
J0525-2623	A1	COMMON	4	1	173542450
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

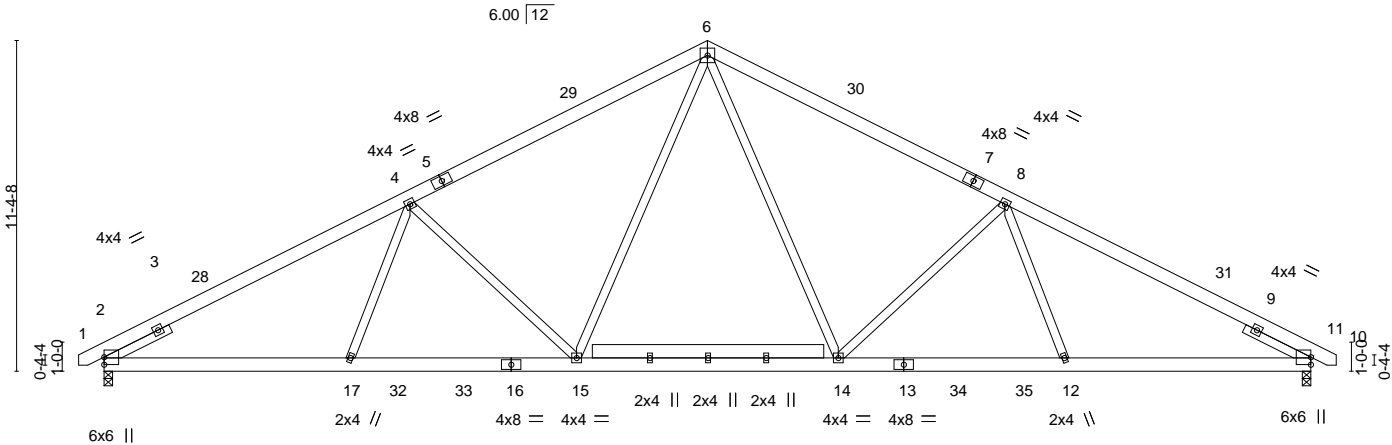
8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 16:22:39 2025 Page 1

ID: _09zqKsf9De2KkT15adaCvyCKWg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

-0-10-8 10-6-4 20-9-0 30-11-12 41-6-0 42-4-8
0-10-8 10-6-4 10-2-12 10-2-12 10-6-4 0-10-8

6x6 =

Scale = 1:79.2



8-5-11 16-3-0 25-3-0 33-0-5 41-6-0
8-5-11 7-9-5 9-0-0 7-9-5 8-5-11

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 0.32	Vert(LL)	-0.15 12-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.53	Vert(CT)	-0.26 12-14	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.78	Horz(CT)	0.09 10	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-AS	Wind(LL)	0.06 15	>999	240		
									Weight: 311 lb FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
18-19: 2x6 SP No.1
SLIDER Left 2x4 SP No.2 2-6-0, Right 2x4 SP No.2 2-6-0

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 2=0-3-8, 10=0-3-8
Max Horz 2=140(LC 11)
Max Uplift 2=-109(LC 12), 10=-109(LC 13)
Max Grav 2=1867(LC 2), 10=1867(LC 2)

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

TOP CHORD 2-4=-3048/556, 4-6=-2457/584, 6-8=-2457/584, 8-10=-3048/556
BOT CHORD 2-17=-349/2695, 15-17=-381/2597, 14-15=-129/1786, 12-14=-378/2542, 10-12=-346/2638
WEBS 6-14=-115/882, 8-14=-675/296, 8-12=0/345, 6-15=-115/882, 4-15=-675/296, 4-17=0/345

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 20-9-0, Exterior(2R) 20-9-0 to 25-1-13, Interior(1) 25-1-13 to 42-2-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 109 lb uplift at joint 2 and 109 lb uplift at joint 10.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



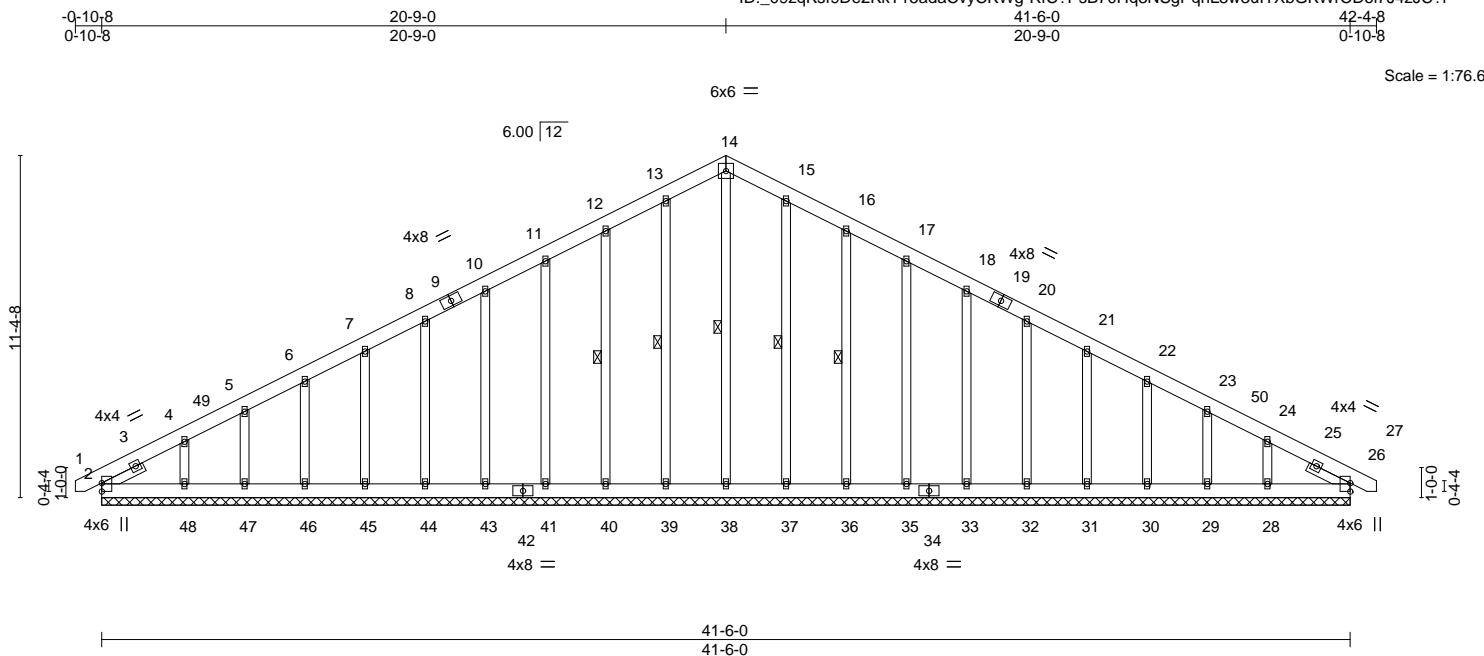
May 16, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

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818 Soundside Road
Edenton, NC 27932



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 0.06	Vert(LL) 0.00 26 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) 0.00 26 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.13	Horz(CT) 0.01 26 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-S		Weight: 377 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 1-6-4, Right 2x4 SP No.2 1-6-4

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.
WEBS	1 Row at midpt 14-38, 13-39, 12-40, 15-37, 16-36

REACTIONS. All bearings 41-6-0.
(lb) - Max Horz 2=217(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) 2, 39, 40, 41, 43, 44, 45, 46, 47, 37, 36, 35, 33, 32, 31, 30,
29 except 48=169(LC 12), 28=148(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 26, 38, 39, 40, 41, 43, 44, 45, 46, 47, 48, 37, 36, 35,
33, 32, 31, 30, 29, 28

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-295/98, 11-12=-116/294, 12-13=-139/358, 13-14=-150/394, 14-15=-150/394,
 15-16=-139/358, 16-17=-116/294

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-8-10 to 3-8-3, Exterior(2N) 3-8-3 to 20-9-0, Corner(3R) 20-9-0 to 25-1-13, Exterior(2N) 25-1-13 to 42-2-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 39, 40, 41, 43, 44, 45, 46, 47, 37, 36, 35, 33, 32, 31, 30, 29 except (it=lb) 48=169, 28=148.



May 16, 2025

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 37 Duncan's Creek	173542452
J0525-2623	A2	COMMON	10	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 16:22:41 2025 Page 1

ID:_09zqKsf9De2KkT15adaCvyCKWg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

0-10-8 10-6-4 20-9-0 30-11-12 41-6-0
0-10-8 10-6-4 10-2-12 10-2-12 10-6-4

6x6 =

Scale = 1:78.0

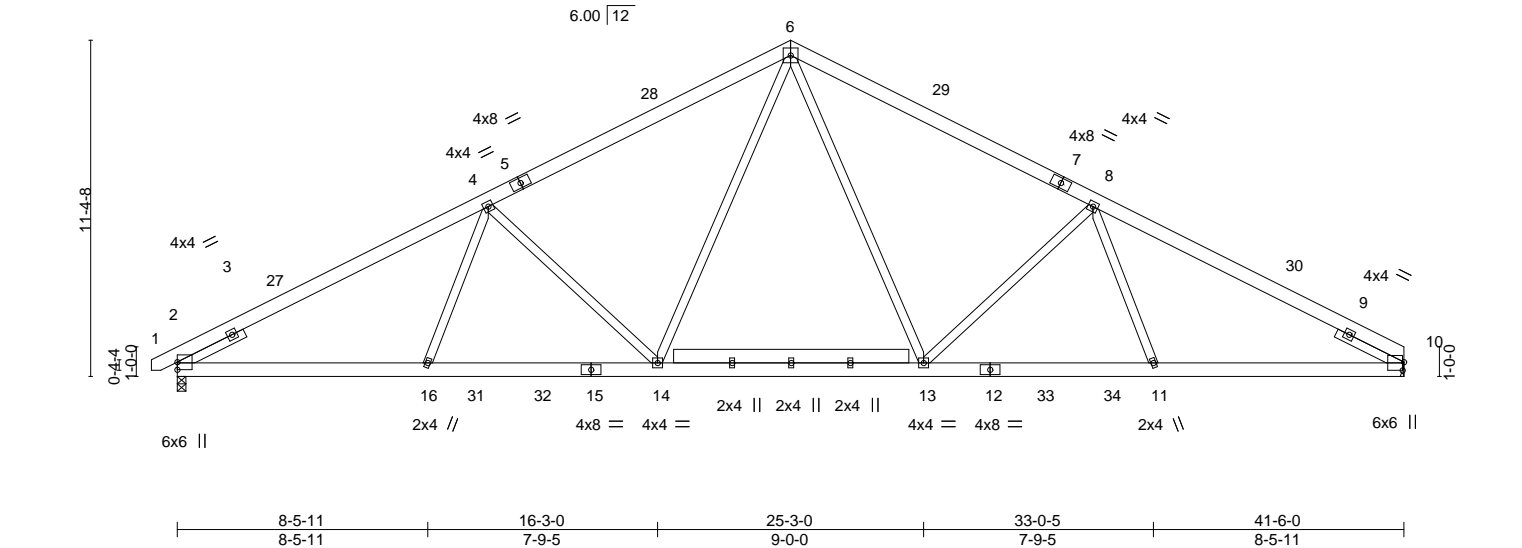


Plate Offsets (X,Y)-- [10:0-3-6,0-0-9]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP		
TCLL	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.15 14-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.26 14-16	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.09 10	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI2014		Matrix-AS		Wind(LL)	0.06 14	>999	240	Weight: 309 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
17-18: 2x6 SP No.1
SLIDER Left 2x4 SP No.2 2-6-0, Right 2x4 SP No.2 2-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 10=Mechanical
Max Horz 2=141(LC 9)
Max Uplift 2=-109(LC 12), 10=-99(LC 13)
Max Grav 2=1868(LC 2), 10=1831(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-3049/556, 4-6=-2458/584, 6-8=-2458/587, 8-10=-3051/562
BOT CHORD 2-16=-375/2691, 14-16=-407/2593, 13-14=-154/1782, 11-13=-394/2544, 10-11=-366/2640
WEBS 6-13=-115/883, 8-13=-677/296, 8-11=0/346, 6-14=-115/882, 4-14=-675/296, 4-16=0/345

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 20-9-0, Exterior(2R) 20-9-0 to 25-1-13, Interior(1) 25-1-13 to 41-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=109.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



May 16,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacompnents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 37 Duncan's Creek
J0525-2623	A3GE	GABLE	1	1	173542453
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 16:22:42 2025 Page 1

ID: _09zqKsf9De2KkT15adaCvyCKWg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

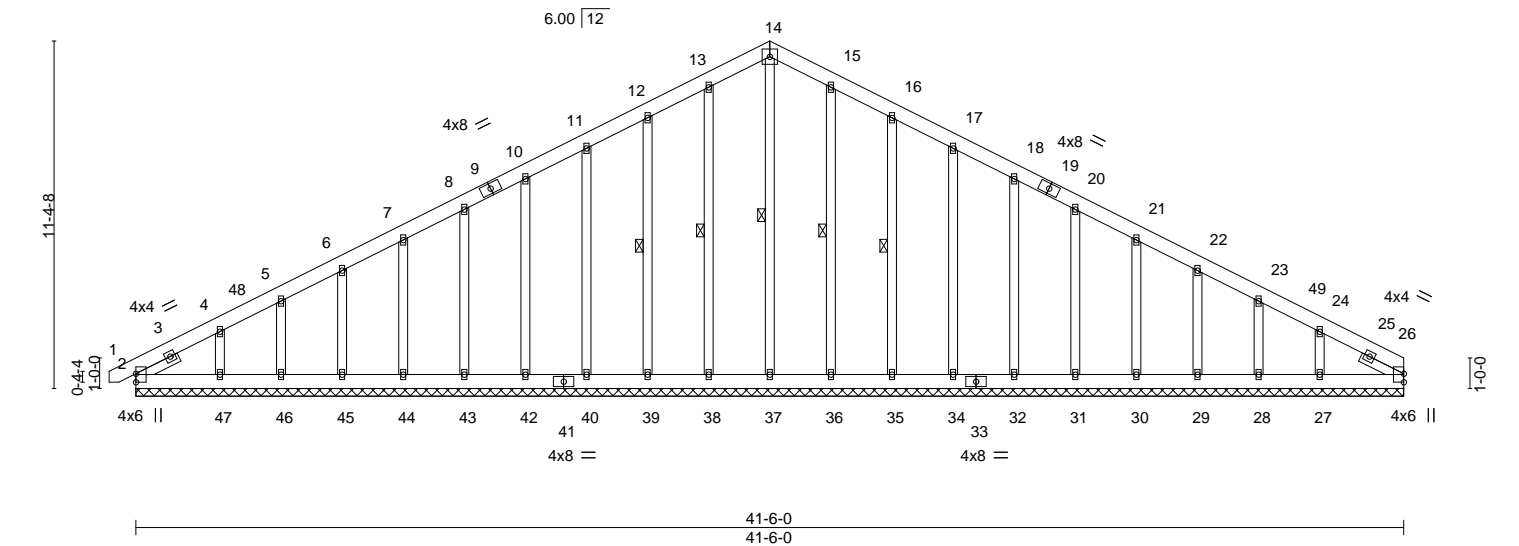
-0-10-8
0-10-8

20-9-0
20-9-0

41-6-0
20-9-0

6x6 =

Scale = 1:75.4



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 0.06	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.01	26	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						Weight: 375 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	WEBS 1 Row at midpt 14-37, 13-38, 12-39, 15-36, 16-35
SLIDER Left 2x4 SP No.2 1-6-4, Right 2x4 SP No.2 1-6-4	

REACTIONS. All bearings 41-6-0.
(lb) - Max Horz 2=-223(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) 2, 38, 39, 40, 42, 43, 44, 45, 46, 36, 35, 34, 32, 31, 30, 29, 28 except 47=-169(LC 12), 27=-151(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 26, 37, 38, 39, 40, 42, 43, 44, 45, 46, 47, 36, 35, 34, 32, 31, 30, 29, 28, 27

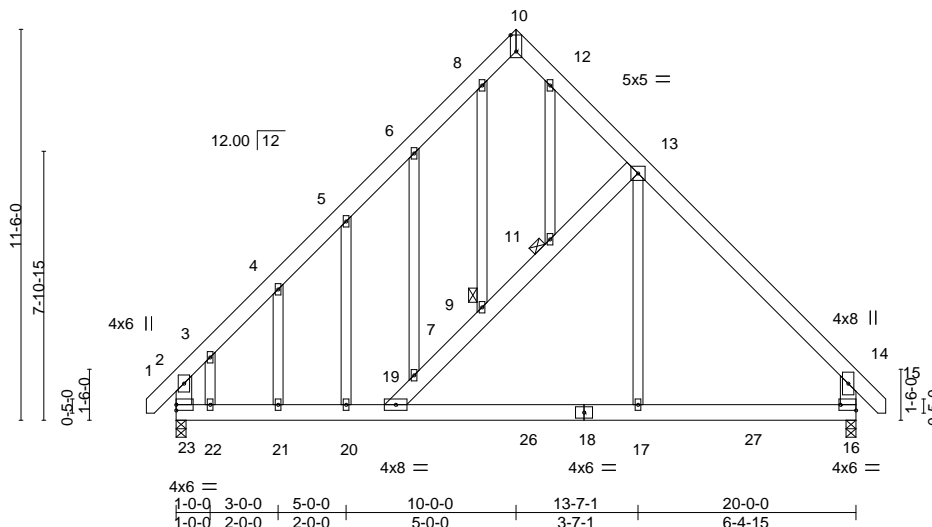
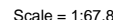
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-293/100, 11-12=-116/305, 12-13=-139/369, 13-14=-149/403, 14-15=-149/403, 15-16=-139/369, 16-17=-116/305
WEBS 24-27=-156/264

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-8-10 to 3-8-3, Exterior(2N) 3-8-3 to 20-9-0, Corner(3R) 20-9-0 to 25-1-13, Exterior(2N) 25-1-13 to 41-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 38, 39, 40, 42, 43, 44, 45, 46, 36, 35, 34, 32, 31, 30, 29, 28 except (jt=lb) 47=169, 27=151.



May 16,2025

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 16:22:43 2025 Page 1
ID: 09zgKsf9De2KkT15adaCvvCKWg-RfC?PsB70Hq3NSaPanL8w3uITxbGKWrCDoi7J4zJC?f



TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
2-23,14-16: 2x6 SP No.1

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.
JOINTS	1 Brace at Jt(s): 11, 9

REACTIONS. (size) 16=0-3-8, 23=0-3-8
 Max Horz 23=322(LC 11)
 Max Uplift 16=-144(LC 12), 23=-144(LC 13)
 Max Grav 16=1028(LC 19), 23=955(LC 20)

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

TOP CHORD 2-3=-905/51, 3-4=-835/96, 4-5=-760/157, 5-6=-704/207, 6-8=-633/311, 8-10=-354/214,
10-12=-451/274, 12-13=-720/376, 13-14=-1012/187, 7-19=-147/263, 7-9=-222/296,
9-11=-266/213, 11-13=-385/236, 2-23=-791/82, 14-16=-882/222

BOT CHORD 22-23=-101/634, 21-22=-100/634, 20-21=-100/634, 19-20=-100/633, 17-19=-4/619,
16-17=-4/619

WEBS 8-9=-151/290, 13-17=0/437

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 10-0-0, Exterior(2R) 10-0-0 to 14-4-13, Interior(1) 14-4-13 to 20-9-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=144, 23=144.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 16, 2025



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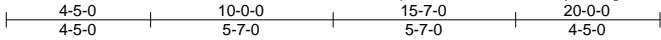
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 37 Duncan's Creek
J0525-2623	B2GRD	COMMON GIRDER	1	2	I73542455

Comtech, Inc., Fayetteville, NC - 28314,

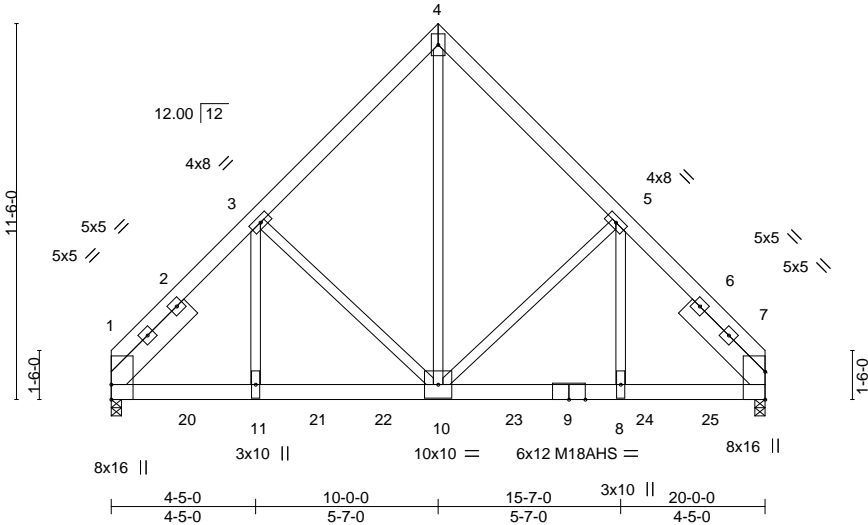
8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 16:22:43 2025 Page 1

ID: 09zqKsf9De2KkT15adaCvyCKWg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f



5x8 ||

Scale = 1:70.5



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 0.82	Vert(LL)	-0.14 10-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.78	Vert(CT)	-0.26 10-11	>922	240	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.73	Horz(CT)	0.07 7	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-MS	Wind(LL)	0.09 10-11	>999	240		
								Weight: 376 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
4-10: 2x4 SP No.1
SLIDER Left 2x8 SP No.1 3-5-0, Right 2x8 SP No.1 3-5-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-9-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=0-3-12, 7=0-3-12
Max Horz 1=-240(LC 25)
Max Uplift 1=-521(LC 9), 7=-541(LC 8)
Max Grav 1=8688(LC 2), 7=9013(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-9549/626, 3-4=-6702/543, 4-5=-6709/543, 5-7=-9473/621
BOT CHORD 1-11=-460/6280, 10-11=-460/6280, 8-10=-359/6258, 7-8=-359/6258
WEBS 4-10=-622/8849, 5-10=-2070/301, 5-8=-189/3740, 3-10=-2100/302, 3-11=-195/3856

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 0-5-0 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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=521, 7=541.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1811 lb down and 119 lb up at 2-2-12, 1811 lb down and 119 lb up at 4-2-12, 1811 lb down and 119 lb up at 6-2-12, 1811 lb down and 119 lb up at 8-2-12, 1811 lb down and 119 lb up at 10-2-12, 1811 lb down and 119 lb up at 12-2-12, 1811 lb down and 119 lb up at 14-2-12, and 1811 lb down and 119 lb up at 16-2-12, and 1811 lb down and 119 lb up at 18-2-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 37 Duncan's Creek
J0525-2623	B2GRD	COMMON GIRDER	1	2	173542455
					Job Reference (optional)

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, 12-16=-20
Concentrated Loads (lb)
Vert: 9=-1640(B) 10=-1640(B) 11=-1640(B) 20=-1640(B) 21=-1640(B) 22=-1640(B) 23=-1640(B) 24=-1640(B) 25=-1640(B)



May 16,2025

Job	Truss	Truss Type	Qty	Ply	Lot 37 Duncan's Creek
J0525-2623	C1GE	GABLE	1	1	173542456
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 16:22:44 2025 Page 1

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0-10-8 6-3-0 12-6-0 13-4-8
0-10-8 6-3-0 6-3-0 0-10-8

4x6 ==

Scale = 1:49.2

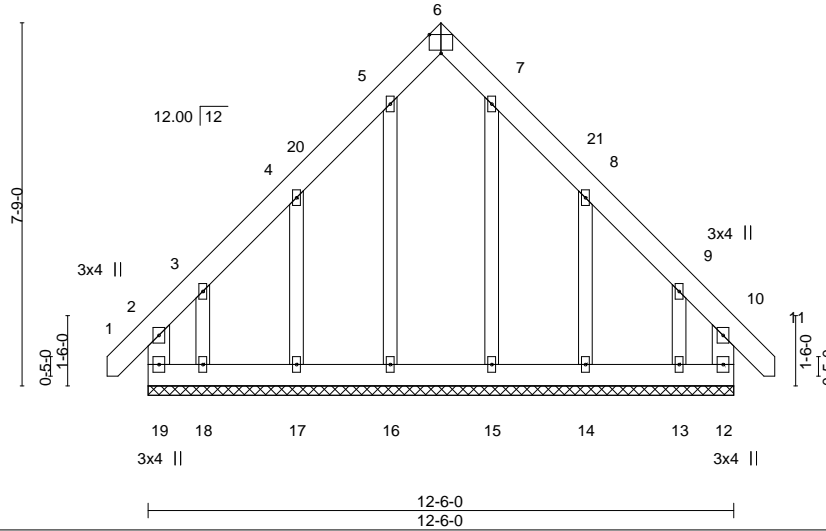


Plate Offsets (X,Y)--		[6:0-3-0,Edge]														
LOADING (psf)		SPACING-	2-0-0	CSI.						DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.00	10	n/r	120					MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.00	10	n/r	120						
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	12	n/a	n/a						
BCDL	10.0	Code IRC2021/TPI2014		Matrix-R											Weight: 115 lb	FT = 20%

LUMBER-

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

REACTIONS.

All bearings 12-6-0.

(lb) - Max Horz 19=210(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) except 19=174(LC 10), 12=148(LC 11), 17=160(LC 12), 18=336(LC 12), 14=162(LC 13), 13=325(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 16, 17, 15, 14, 13 except 19=309(LC 12), 12=291(LC 13), 18=253(LC 10)

FORCES.

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

WEBS 4-17=-187/312, 3-18=-159/295, 8-14=-186/312, 9-13=-161/293

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-2 to 3-7-11, Exterior(2N) 3-7-11 to 6-3-0, Corner(3R) 6-3-0 to 10-7-13, Exterior(2N) 10-7-13 to 13-3-2 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.
- 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 174 lb uplift at joint 19, 148 lb uplift at joint 12, 160 lb uplift at joint 17, 336 lb uplift at joint 18, 162 lb uplift at joint 14 and 325 lb uplift at joint 13.



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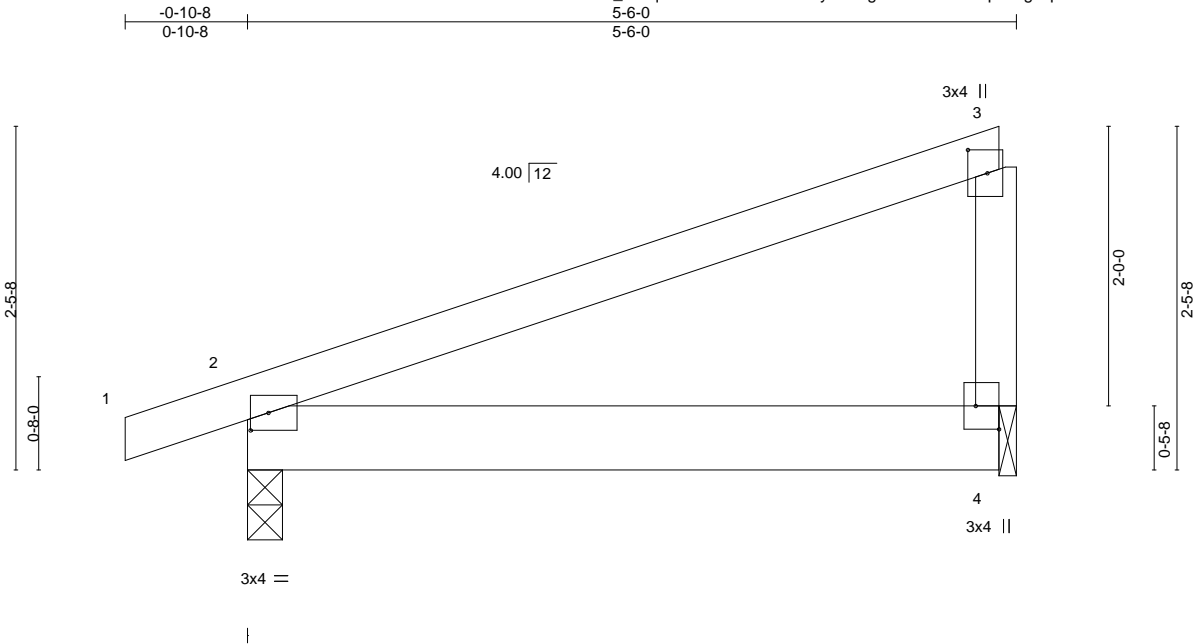
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 37 Duncan's Creek
J0525-2623	D1	MONOPITCH	5	1	I73542457
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

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ID: 09zqKsf9De2KkT15adaCvyCKWg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f



Scale = 1:16.5

Plate Offsets (X,Y)--		[2:0-1-9,0-1-8], [3:0-2-0,0-1-11], [4:Edge,0-2-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.25
TCDL 10.0	Lumber DOL	1.15	BC 0.24
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2021/TPI2014	Matrix-AS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) 0.05 4-7 >999 240
			Vert(CT) -0.03 4-7 >999 240
			Horz(CT) -0.01 2 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 25 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, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-0, 4=0-1-8
Max Horz 2=72(LC 8)
Max Uplift 2=104(LC 8), 4=93(LC 8)
Max Grav 2=271(LC 1), 4=210(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 5-4-4 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 104 lb uplift at joint 2 and 93 lb uplift at joint 4.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



May 16,2025

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 37 Duncan's Creek	173542459
J0525-2623	D2A	MONOPITCH	3	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 16:22:45 2025 Page 1

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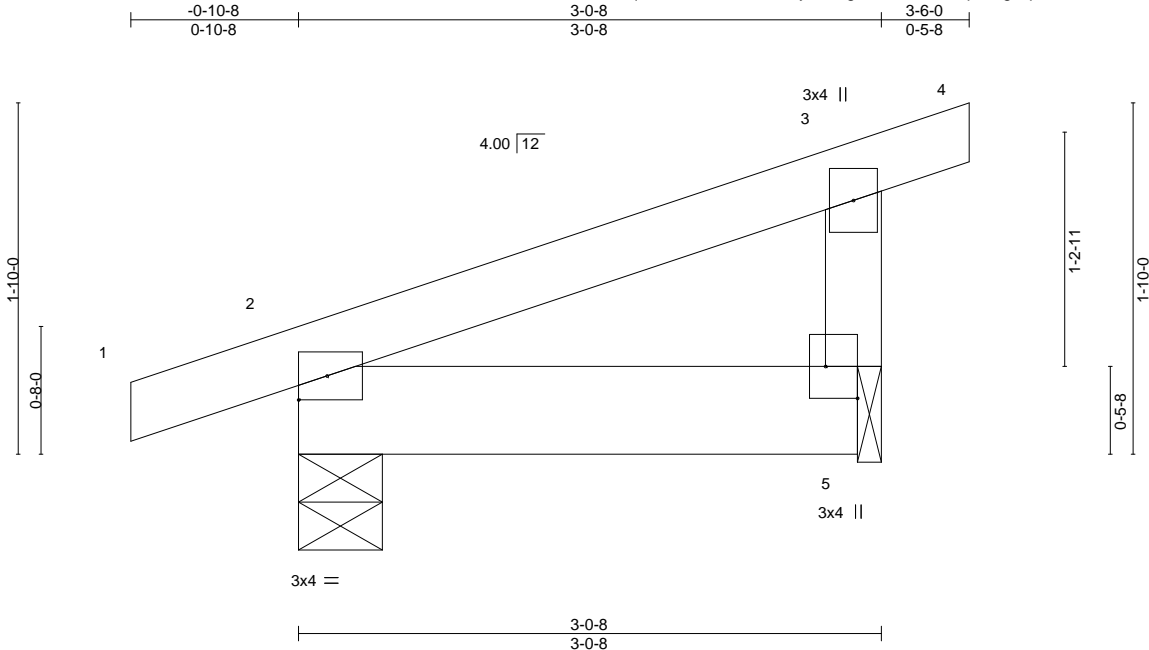


Plate Offsets (X,Y)--		[5:Edge,0-2-0]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	-0.00	8	>999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	5-8	>999	240	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a	
BCDL	10.0	Code IRC2021/TPI2014		Matrix-MP		Wind(LL)	0.00	8	>999	240	Weight: 15 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 3-0-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-5-4, 5=0-1-8
Max Horz 2=51(LC 8)
Max Uplift 2=37(LC 8), 5=31(LC 12)
Max Grav 2=172(LC 1), 5=148(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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) 5 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) 5.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 2 and 31 lb uplift at joint 5.



May 16,2025

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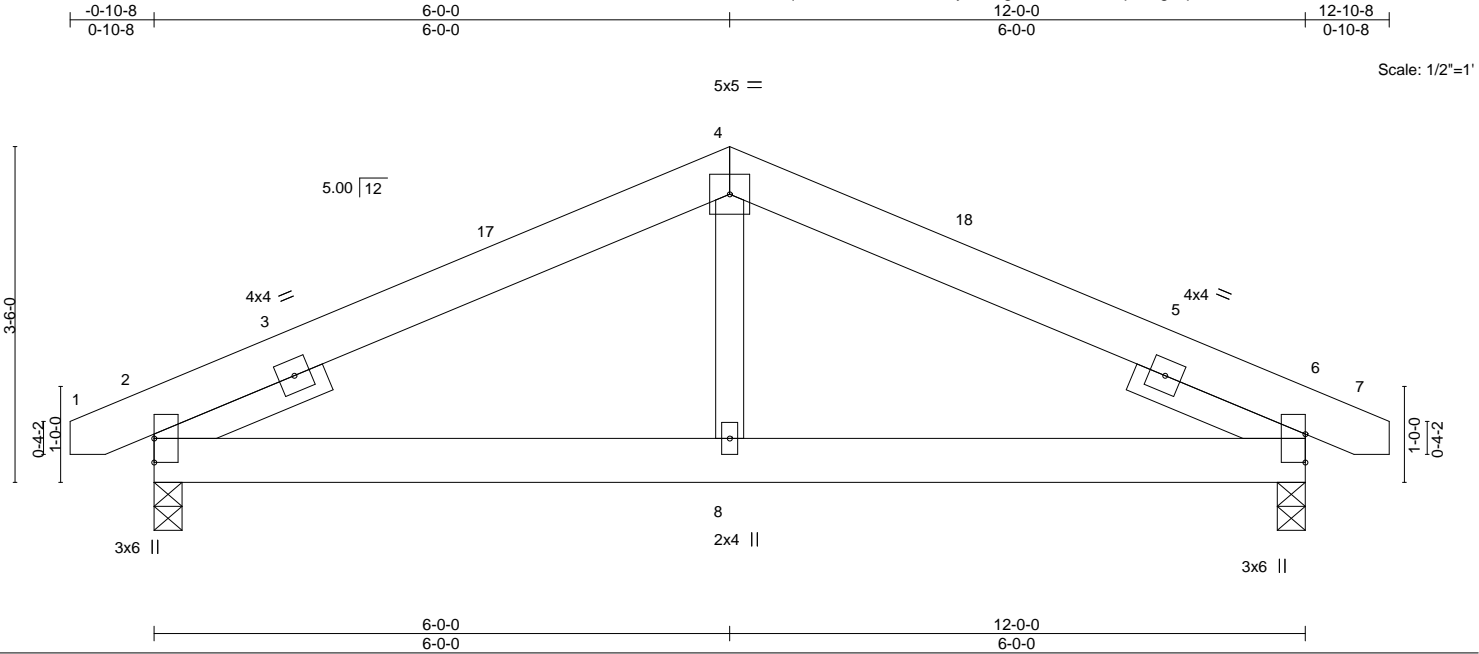
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 37 Duncan's Creek	173542460
J0525-2623	G1	COMMON	4	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 16:22:46 2025 Page 1

ID: _09zqKsf9De2KkT15adaCvyCKWg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



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 0.10	Vert(LL)	-0.01 8-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	-0.02 8-11	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00 6	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-AS	Wind(LL)	0.01 8-11	>999	240	Weight: 73 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 1-11-0, Right 2x4 SP No.2 1-11-0

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 2=0-3-8, 6=0-3-8
Max Horz 2=33(LC 12)
Max Uplift 2=-39(LC 12), 6=-39(LC 13)
Max Grav 2=522(LC 1), 6=522(LC 1)

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

TOP CHORD 2-4=-569/350, 4-6=-569/350
BOT CHORD 2-8=-204/525, 6-8=-204/525

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-5 to 3-8-8, Interior(1) 3-8-8 to 6-0-0, Exterior(2R) 6-0-0 to 10-4-13, Interior(1) 10-4-13 to 12-8-5 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 2 and 39 lb uplift at joint 6.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 37 Duncan's Creek
J0525-2623	G1GE	GABLE	1	1	I73542461
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

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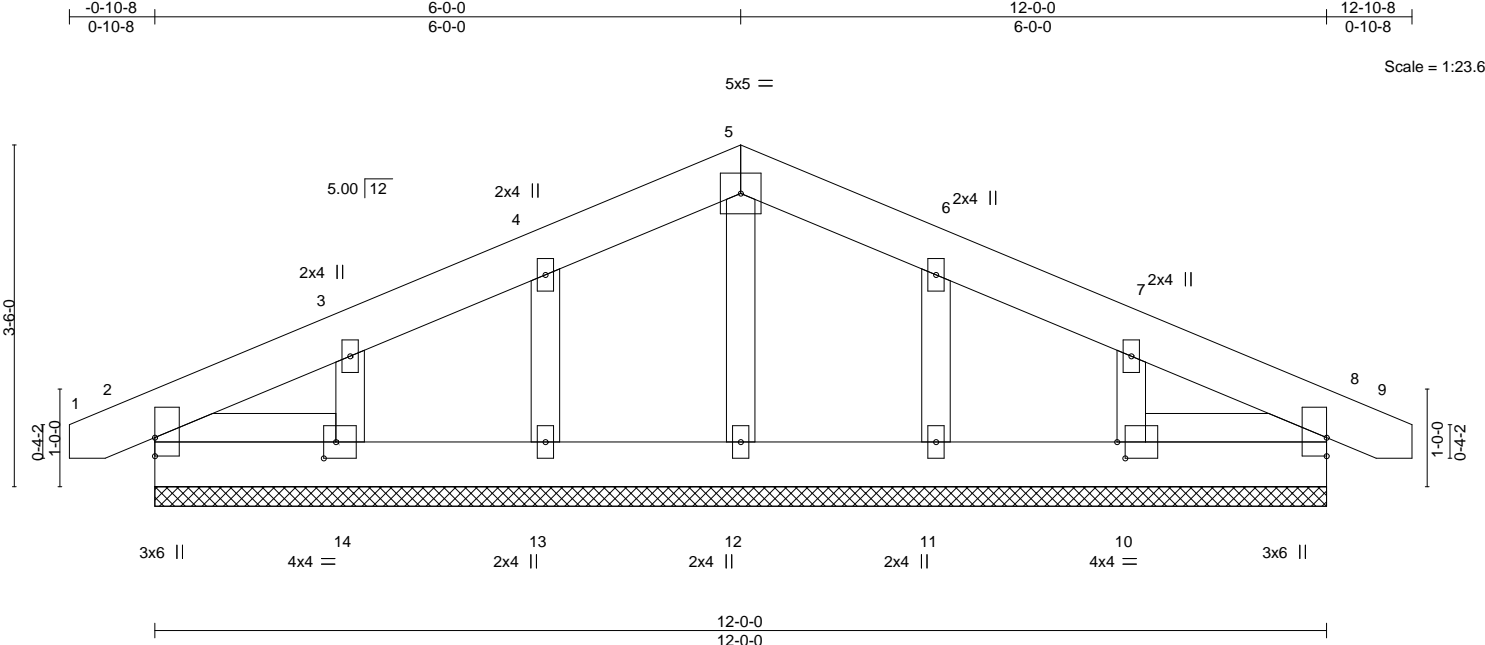


Plate Offsets (X,Y)--		[10:0-1-0,0-2-0], [14:0-1-8,0-2-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.02
TCDL 10.0	Lumber DOL	1.15	BC 0.01
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03
BCDL 10.0	Code	IRC2021/TPI2014	Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.00	8	n/r
Vert(CT)	0.00	8	n/r
Horz(CT)	0.00	8	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 81 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 1-10-4, Right 2x4 SP No.2 1-10-4

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.

REACTIONS. All bearings 12-0-0.
(lb) - Max Horz 2=56(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 14, 10, 13, 11
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 14, 10, 12, 13, 11

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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-8-5 to 4-0-0, Exterior(2N) 4-0-0 to 6-0-0, Corner(3R) 6-0-0 to 10-4-13, Exterior(2N) 10-4-13 to 12-8-5 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) Gable requires continuous bottom chord bearing.
 - 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) 2, 8, 14, 10, 13, 11.



May 16,2025

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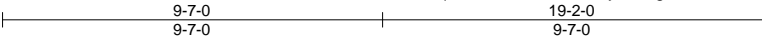
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 37 Duncan's Creek
J0525-2623	VB1	VALLEY	1	1	173542462
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 16:22:47 2025 Page 1

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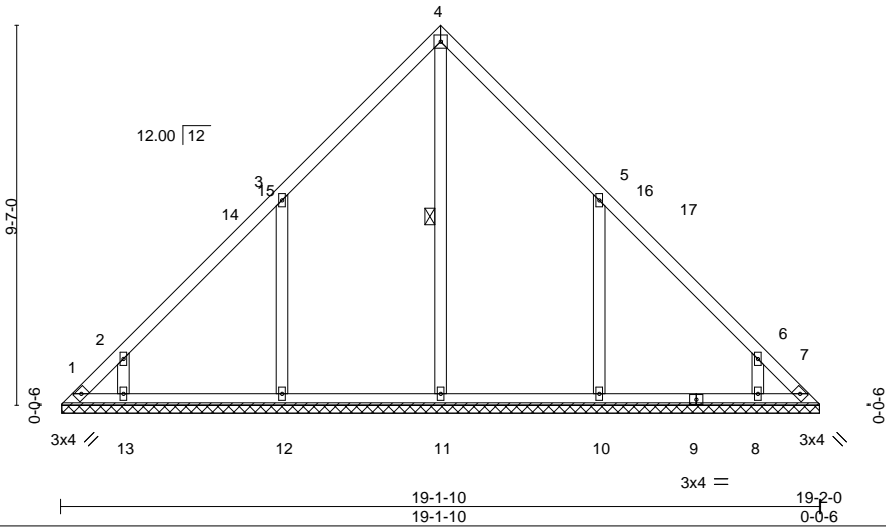


Plate Offsets (X,Y)--		[5:0-0-0,0-0-0], [6:0-0-0,0-0-0]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.18	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(CT) 0.00 7 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-S		Weight: 99 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.
WEBS 1 Row at midpt 4-11

REACTIONS.

All bearings 19-1-4.
(lb) - Max Horz 1=221(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) except 1=138(LC 10), 7=102(LC 11), 12=185(LC 12),
13=132(LC 12), 10=184(LC 13), 8=133(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=425(LC 22), 12=522(LC 19), 13=337(LC 19),
10=522(LC 20), 8=337(LC 20)

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

TOP CHORD 1-2=274/202, 6-7=266/161
WEBS 3-12=319/313, 5-10=318/313

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 9-7-0, Exterior(2R) 9-7-0 to 13-11-13, Interior(1) 13-11-13 to 18-9-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 1, 102 lb uplift at joint 7, 185 lb uplift at joint 12, 132 lb uplift at joint 13, 184 lb uplift at joint 10 and 133 lb uplift at joint 8.



May 16,2025

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 37 Duncan's Creek
J0525-2623	VB2	VALLEY	1	1	173542463
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 16:22:47 2025 Page 1

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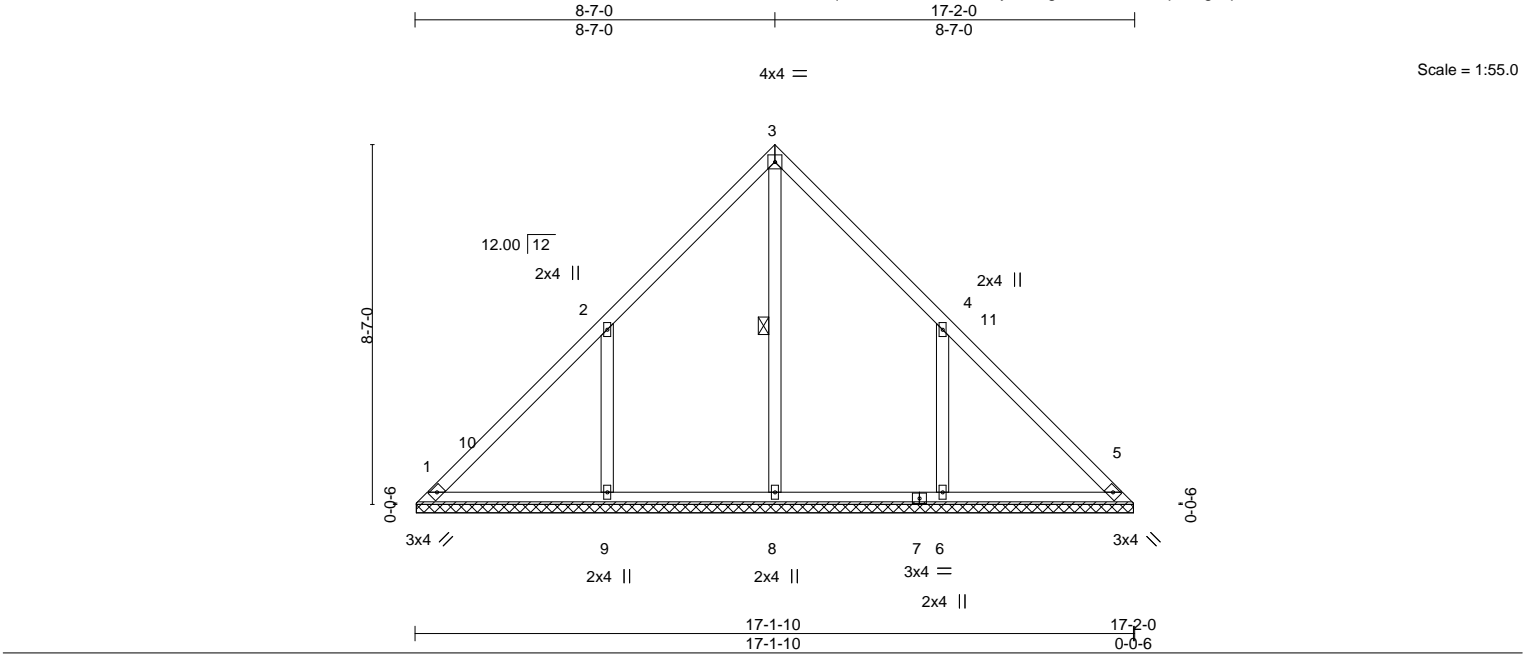


Plate Offsets (X,Y)--		[4:0-0-0,0-0-0]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	5	n/a	n/a			
BCDL	10.0	Code IRC2021/TPI2014		Matrix-S							Weight: 84 lb	FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	WEBS 1 Row at midpt 3-8

REACTIONS. All bearings 17-1-4.
(lb) - Max Horz 1=-197(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-207(LC 12), 6=-207(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=401(LC 22), 9=580(LC 19), 6=580(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-349/347, 4-6=-349/347

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-4-4 to 4-7-0, Interior(1) 4-7-0 to 8-7-0, Exterior(2R) 8-7-0 to 12-11-13, Interior(1) 12-11-13 to 16-9-12 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 except (jt=lb) 9=207, 6=207.



May 16,2025

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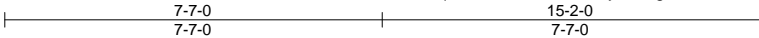
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 37 Duncan's Creek
J0525-2623	VB3	VALLEY	1	1	173542464
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 16:22:47 2025 Page 1

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4x4 =

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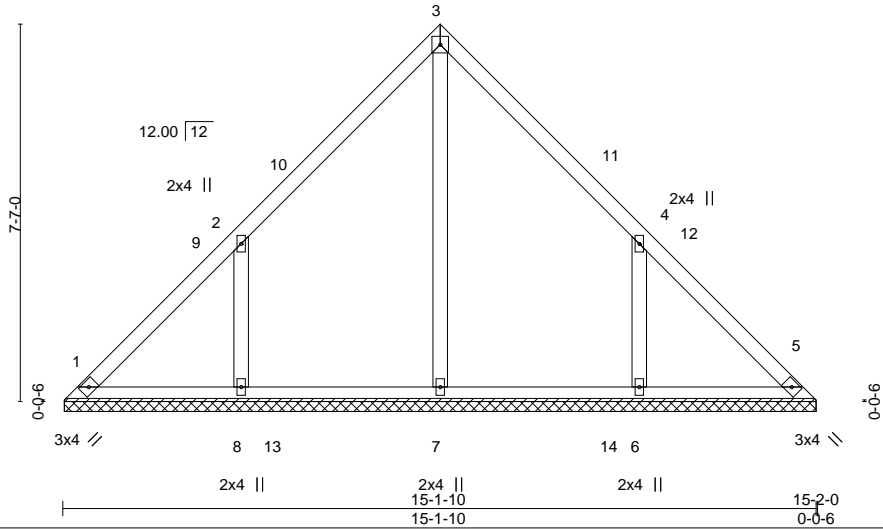


Plate Offsets (X,Y)--	[4:0-0-0,0-0-0]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						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.

REACTIONS.

All bearings 15-1-4.
(lb) - Max Horz 1=173(LC 9)
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=407(LC 22), 8=493(LC 19), 6=492(LC 20)

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

WEBS 2-8=-311/347, 4-6=-311/347

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 7-7-0, Exterior(2R) 7-7-0 to 11-11-13, Interior(1) 11-11-13 to 14-9-12 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.



May 16,2025

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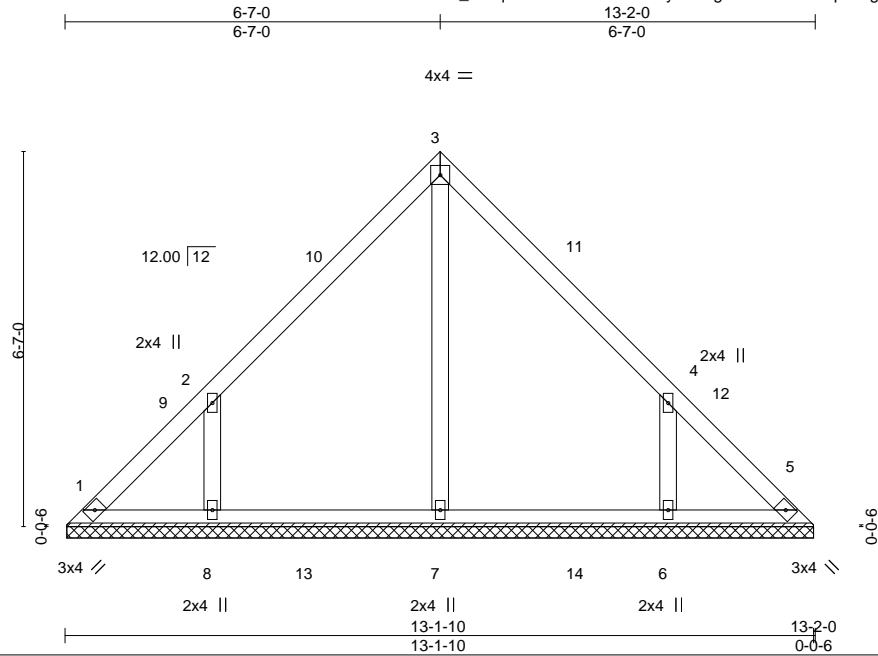
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 37 Duncan's Creek
J0525-2623	VB4	VALLEY	1	1	173542465
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 16:22:48 2025 Page 1
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Scale = 1:40.4

Plate Offsets (X,Y)--	[4:0-0-0,0-0-0]				
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.16	Vert(LL)	n/a - n/a 999
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 0.09	Horz(CT)	0.00 5 n/a n/a
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S		
					PLATES MT20 GRIP 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.

REACTIONS.

All bearings 13-1-4.
(lb) - Max Horz 1=-149(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-163(LC 12), 6=-163(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=394(LC 19), 8=420(LC 19), 6=420(LC 20)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-295/364, 4-6=-295/364

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 6-7-0, Exterior(2R) 6-7-0 to 10-11-13, Interior(1) 10-11-13 to 12-9-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=163, 6=163.



May 16, 2025

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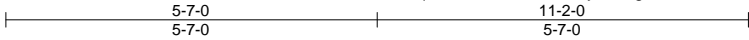
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 37 Duncan's Creek
J0525-2623	VB5	VALLEY	1	1	173542466
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 16:22:48 2025 Page 1

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4x4 =

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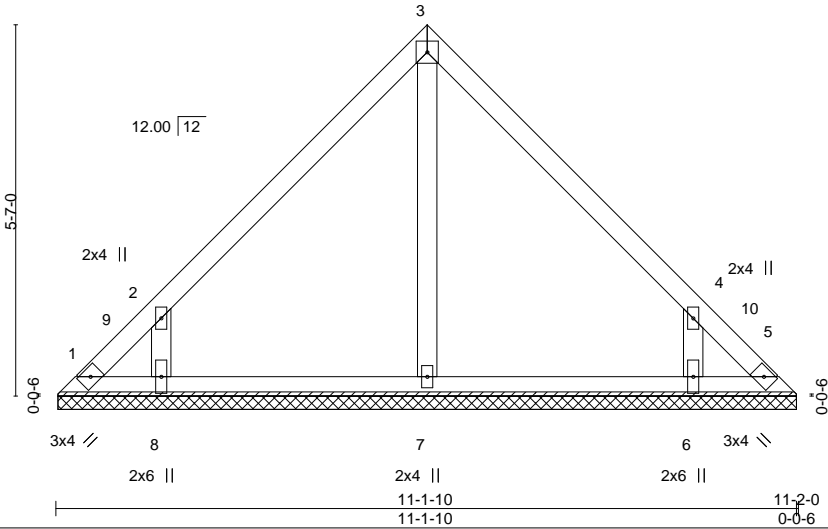


Plate Offsets (X,Y)--		[4:0-0-0,0-0-0]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL 1.15		TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL 1.15		BC	0.09	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0 **	Rep Stress Incr YES		WB	0.08	Horz(CT)	0.00	5	n/a	n/a			
BCDL	10.0	Code IRC2021/TPI2014		Matrix-S							Weight: 49 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.

REACTIONS.

All bearings 11-1-4.
(lb) - Max Horz 1=-125(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-165(LC 12), 6=-165(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=346(LC 19), 6=345(LC 20)

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

WEBS 2-8=-318/442, 4-6=-318/442

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 5-7-0, Exterior(2R) 5-7-0 to 9-11-13, Interior(1) 9-11-13 to 10-9-12 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=165, 6=165.



May 16,2025

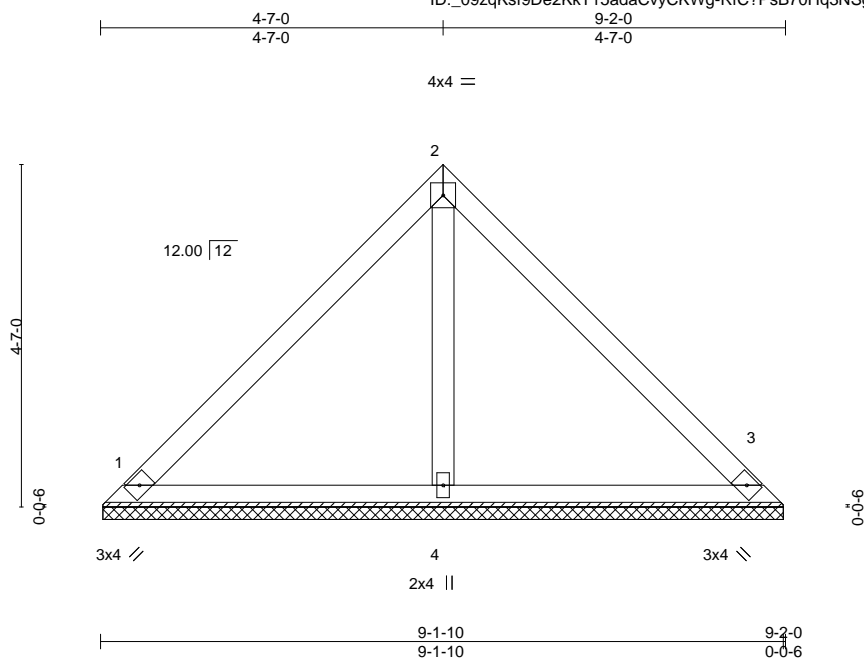
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 16:22:49 2025 Page 1
ID: 09zgKsf9De2KkT15adaCvvCKWg-RfC?PsB70Hq3NSaPanL8w3uITxbGKWrCDoi7J4zJC?f



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) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-S		Weight: 37 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.

REACTIONS. (size) 1=9-1-4, 3=9-1-4, 4=9-1-4
 Max Horz 1=101(LC 8)
 Max Uplift 1=25(LC 13), 3=25(LC 13)
 Max Grav 1=192(LC 1), 3=192(LC 1), 4=293(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDF=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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.



May 16, 2025

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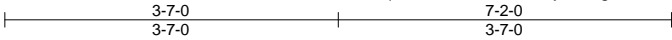
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 37 Duncan's Creek
J0525-2623	VB7	VALLEY	1	1	I73542468
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

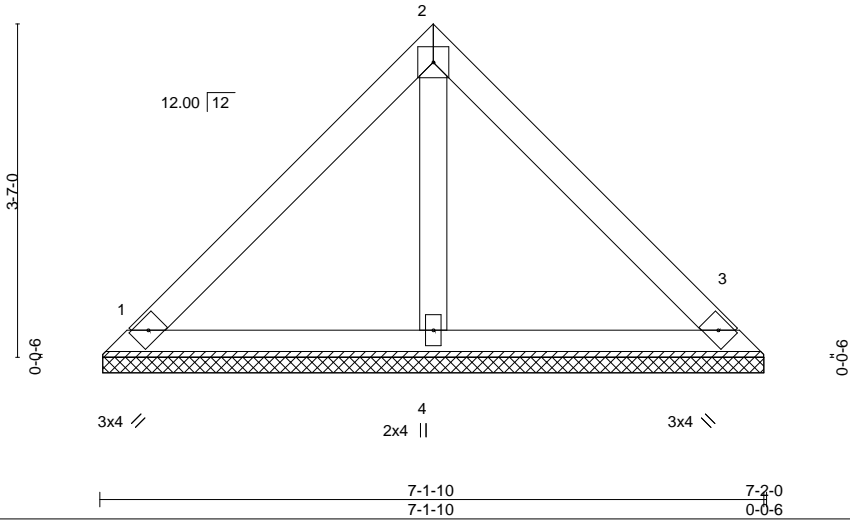
8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 16:22:49 2025 Page 1

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4x4 =

Scale = 1:24.8



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 0.27	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 0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P						Weight: 29 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.

REACTIONS.

(size) 1=7-1-4, 3=7-1-4, 4=7-1-4
Max Horz 1=-77(LC 10)
Max Uplift 1=-28(LC 13), 3=-28(LC 13)
Max Grav 1=157(LC 1), 3=157(LC 1), 4=202(LC 1)

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



May 16,2025

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8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 16:22:50 2025 Page 1
ID: 09zgKsf9De2KkT15adaCvvCKWg-RfC?PsB70Hq3NSaPanL8w3uITxbGKWrCDoi7J4zJC?f

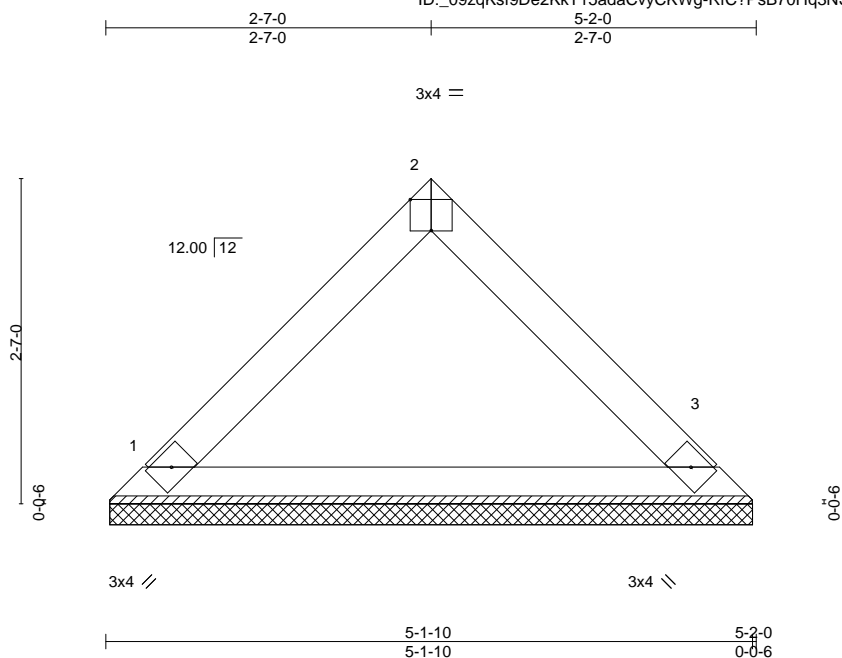


Plate Offsets (X,Y)--		[2:0-2-0,Edge]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) I/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI2014		Matrix-P							Weight: 17 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=5-1-4, 3=5-1-4
 Max Horz 1=53(LC 11)
 Max Uplift 1=-6(LC 12), 3=-6(LC 12)
 Max Grav 1=179(LC 1), 3=179(LC 1)

FORCES.

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDF=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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.



May 16, 2025

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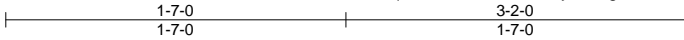
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 37 Duncan's Creek
J0525-2623	VB9	VALLEY	1	1	173542470
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 16:22:50 2025 Page 1

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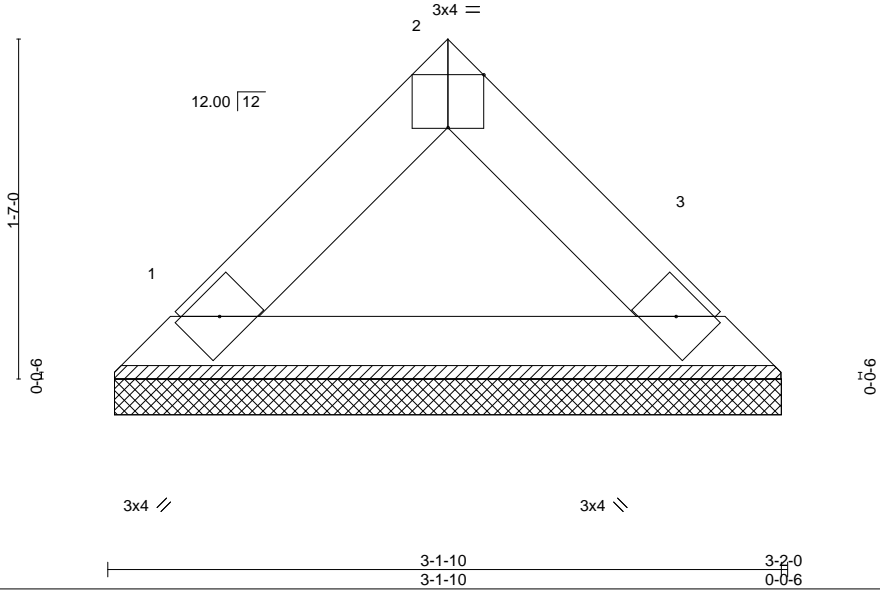


Plate Offsets (X,Y)--		[2:0-2-0,Edge]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a	
BCDL	10.0	Code IRC2021/TPI2014		Matrix-P							Weight: 10 lb FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=3-1-4, 3=3-1-4
Max Horz 1=30(LC 8)
Max Uplift 1=3(LC 12), 3=3(LC 12)
Max Grav 1=99(LC 1), 3=99(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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.



May 16,2025

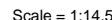
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8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 16:22:50 2025 Page 1
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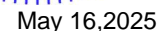


BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 4-8-4 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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 7-16; Vult=130mph (3-second gust) Vas=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) 1, 3.



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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 37 Duncan's Creek
J0525-2623	VD2	VALLEY	1	1	I73542472
Job Reference (optional)					

Comtech, Inc.

Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 16:22:51 2025 Page 1

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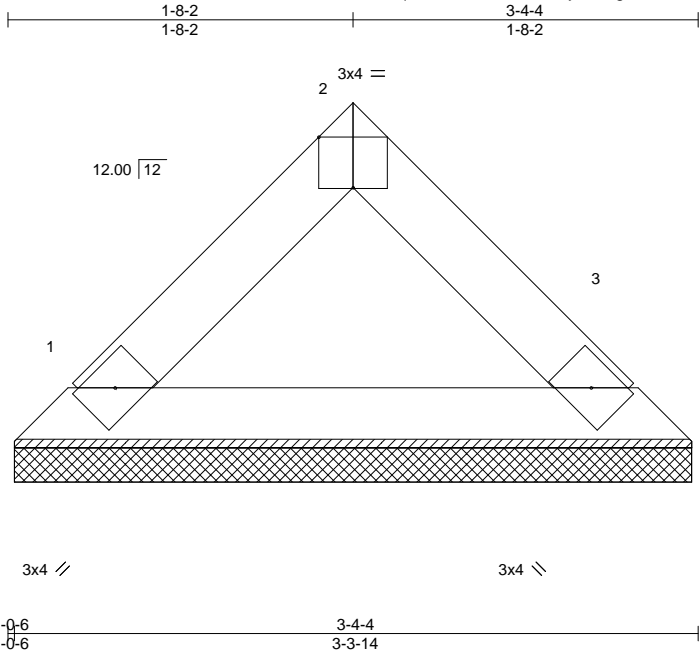


Plate Offsets (X,Y)--		[2:0-2-0,Edge]							
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d
TCLL 20.0		Plate Grip DOL	1.15	TC 0.06		Vert(LL)	n/a -	n/a	999
TCDL 10.0		Lumber DOL	1.15	BC 0.06		Vert(CT)	n/a -	n/a	999
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.00		Horz(CT)	0.00 3	n/a	n/a
BCDL 10.0		Code IRC2021/TPI2014		Matrix-P					
						PLATES	GRIP		
						MT20	244/190		
						Weight: 11 lb	FT = 20%		

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-4-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-3-8, 3=3-3-8
Max Horz 1=32(LC 9)
Max Uplift 1=3(LC 13), 3=3(LC 13)
Max Grav 1=106(LC 1), 3=106(LC 1)

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



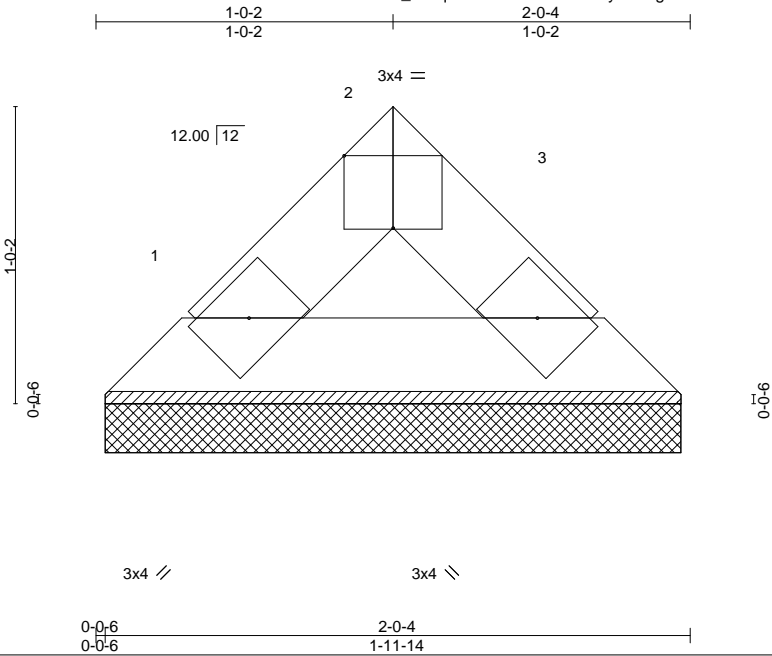
May 16,2025

Job	Truss	Truss Type	Qty	Ply	Lot 37 Duncan's Creek
J0525-2623	VD3	VALLEY	1	1	I73542473
					Job Reference (optional)

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Thu May 15 16:22:51 2025 Page 1

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Scale = 1:7.8

Plate Offsets (X,Y)--		[2:0-2-0,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.02
TCDL 10.0	Lumber DOL	1.15	BC 0.01
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2021/TPI2014	Matrix-P
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) 0.00 3 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 6 lb FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-0-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=1-11-8, 3=1-11-8
Max Horz 1=16(LC 8)
Max Uplift 1=2(LC 13), 3=2(LC 13)
Max Grav 1=53(LC 1), 3=53(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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.



May 16,2025

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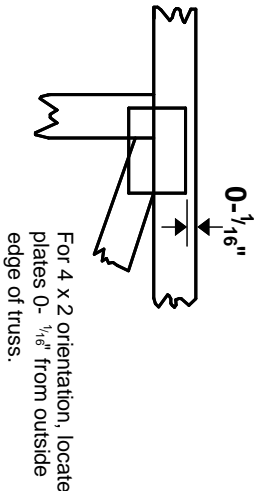
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818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



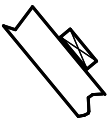
* Plate location details available in MITek software or upon request.

PLATE SIZE

4 X 4

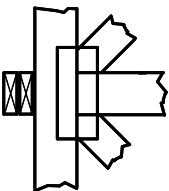
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

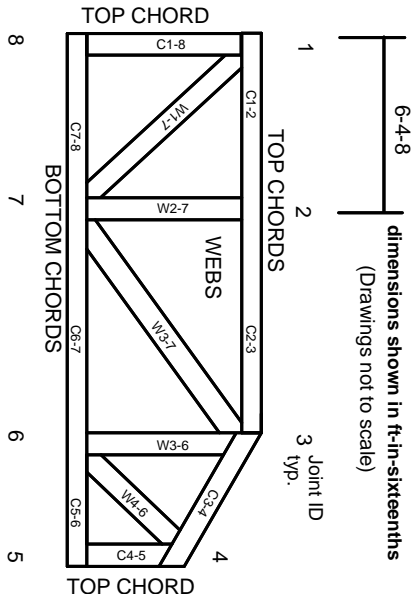
BEARING



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

Industry Standards:
ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:
ESR-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

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

Lumber design values are in accordance with ANSI/TP1 section 6.3. These truss designs rely on lumber values established by others.

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

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TRENCO
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MITek Engineering Reference Sheet: MII-7473 rev. 1/2/2023