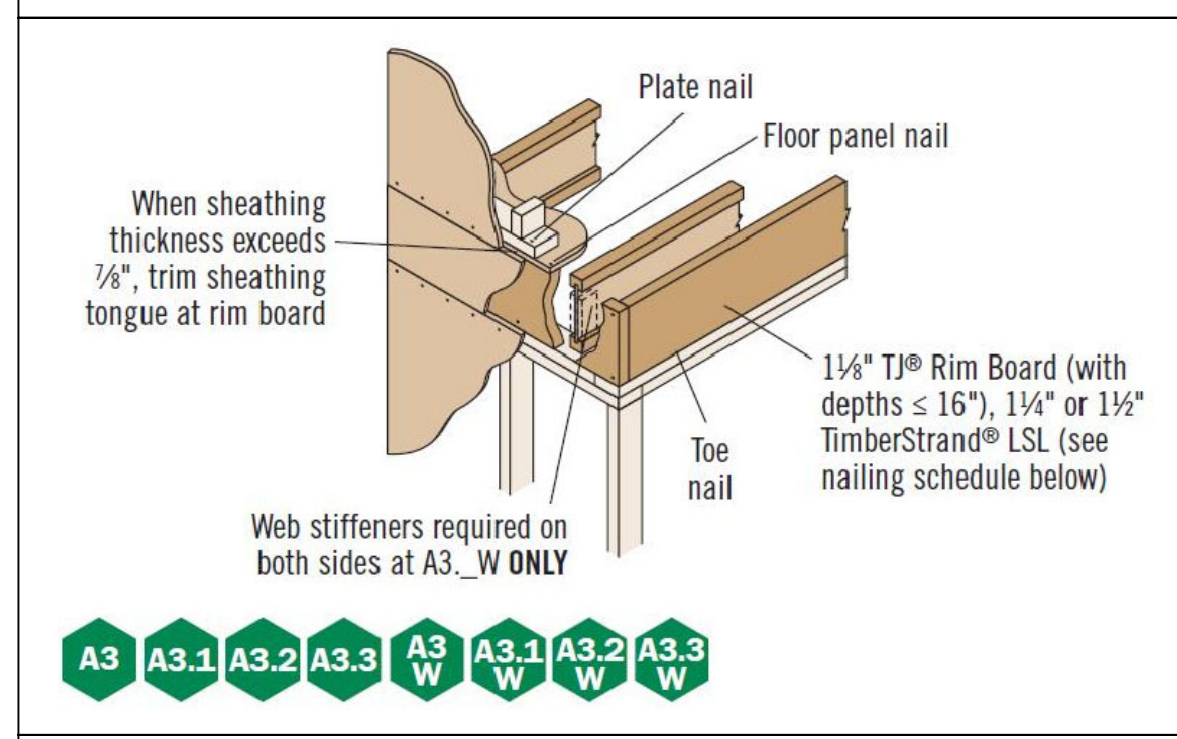
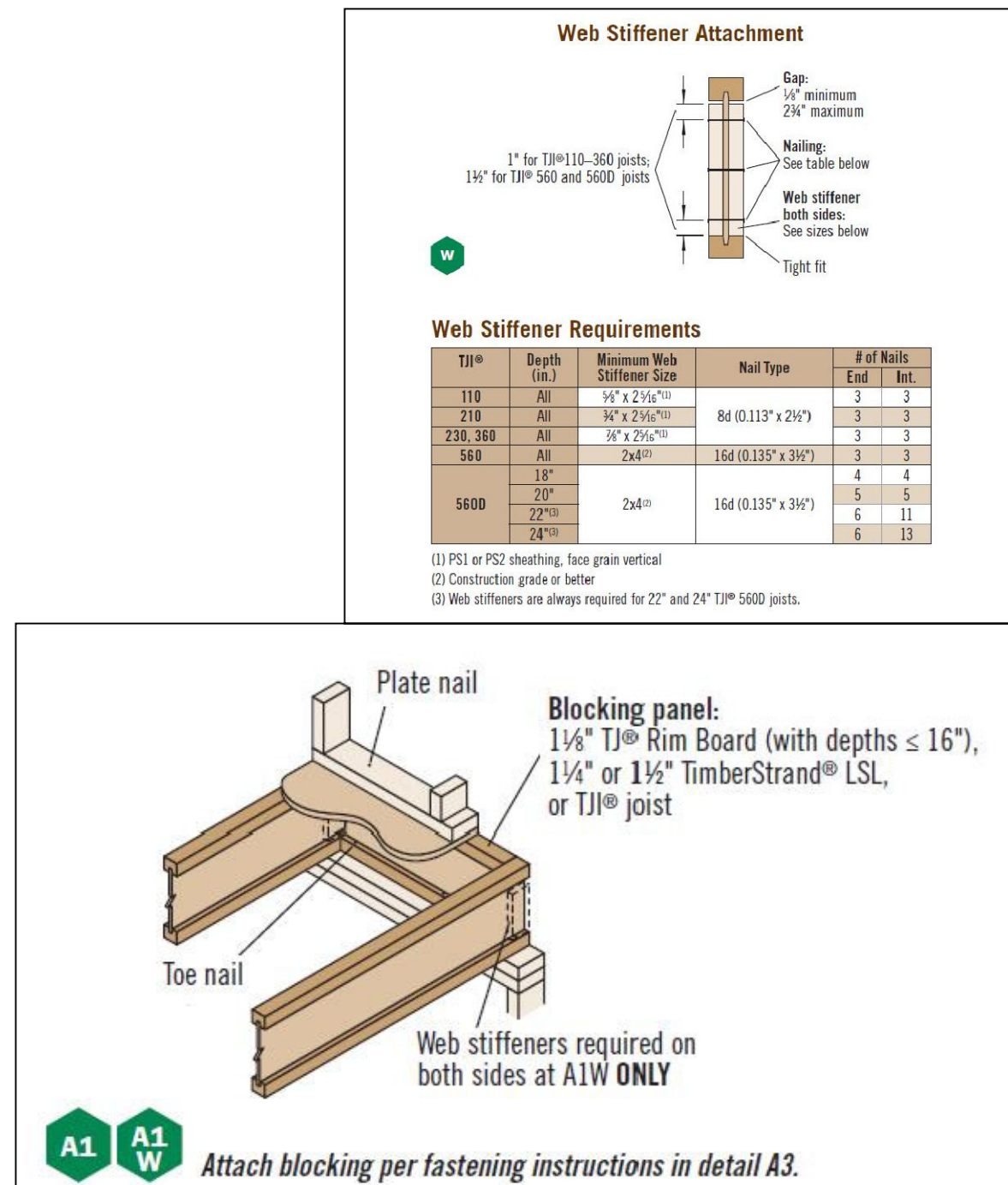
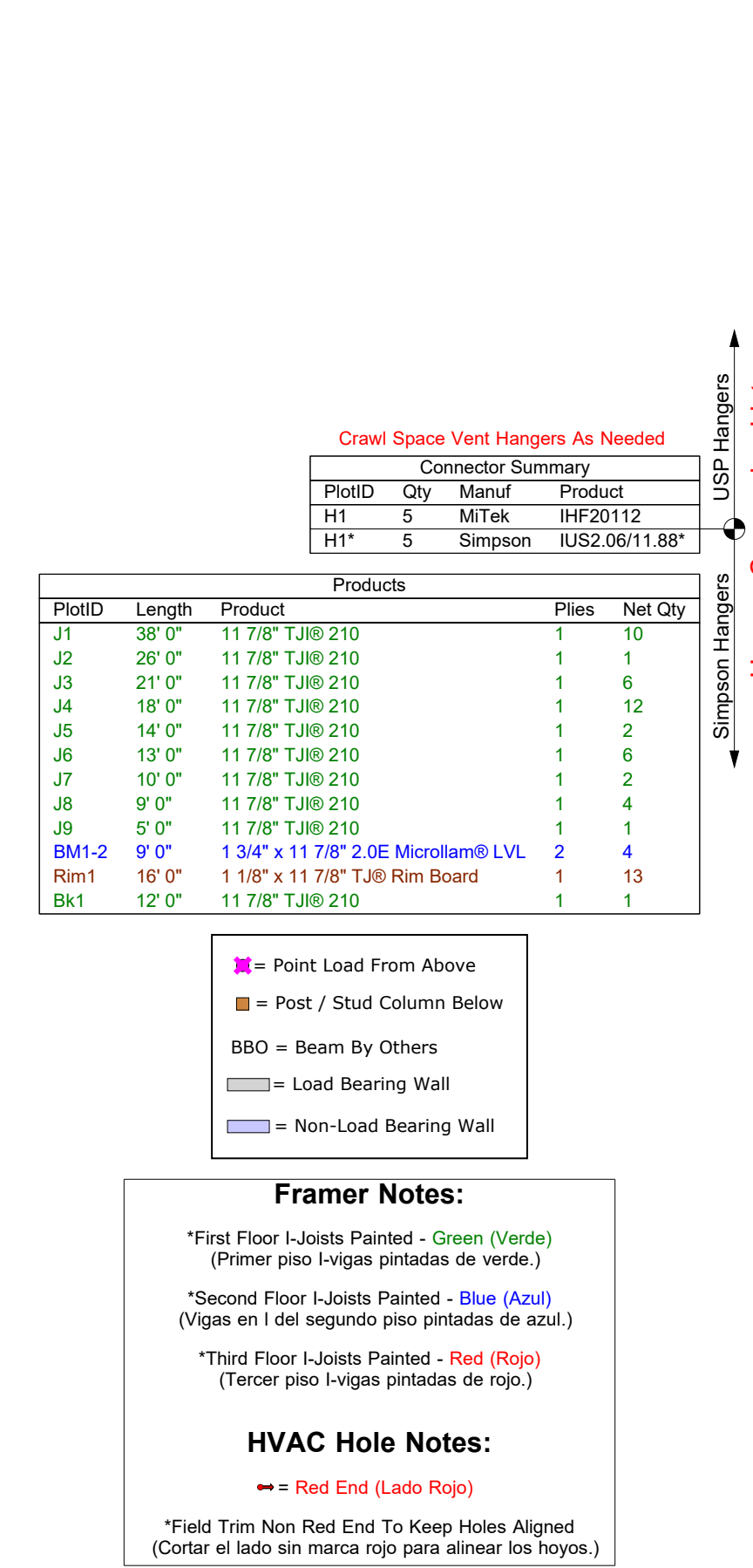
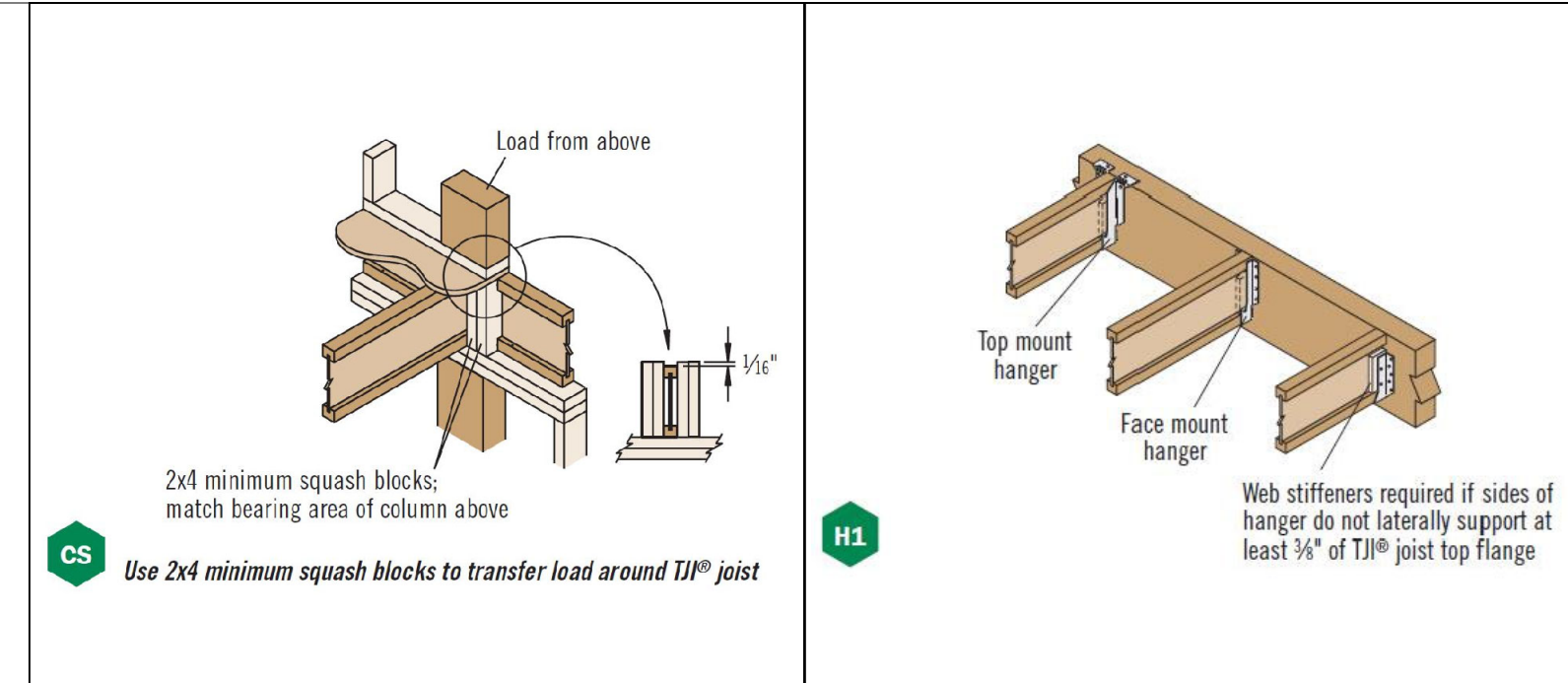
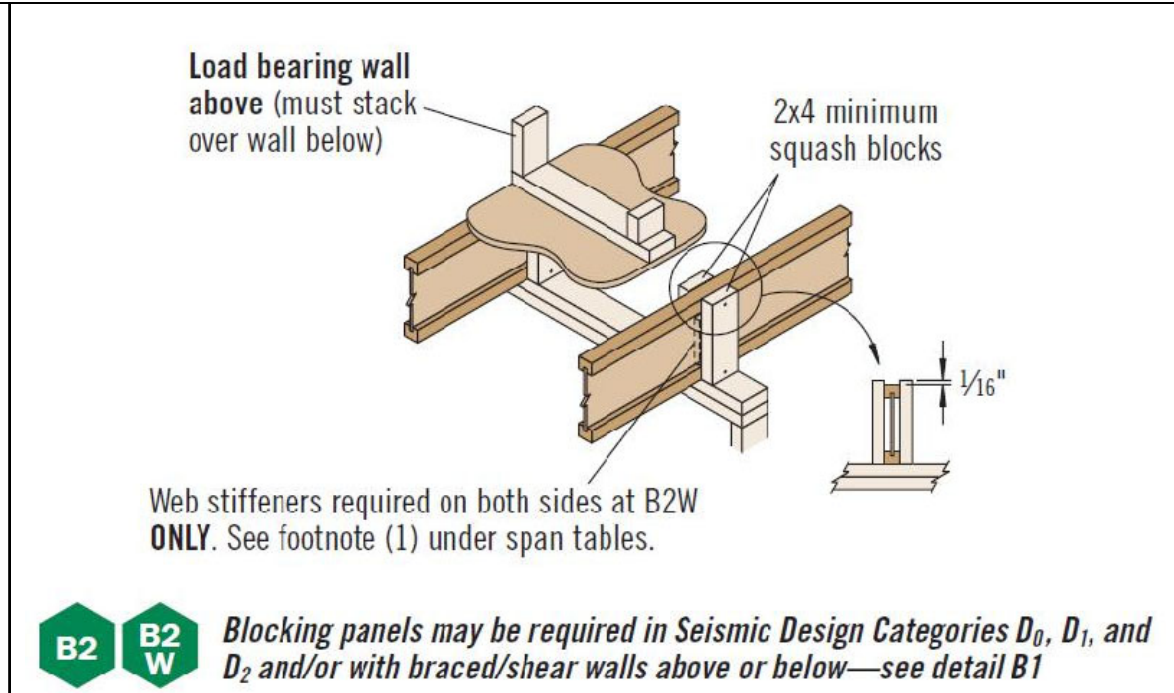




Rim Board Installation		A3.1, A3.2, A3.3, A3.4 Designed Solution
Specifications	A3. Conventional Construction, Code Minimum	
Rim Board Thickness	1¼" TJ® Rim Board, or 1¼" or 1½" TimberStrand® LSL	
Plate Nail: (0.131" x 3")	12" o.c. ⁽¹⁾	See Weyerhaeuser's <i>Rim Board Specifier's Guide</i> (Reorder #TJ-8000)
Floor Panel Nail: 8d (0.131" x 2½")	6" o.c.	
Toe Nail: (0.131" x 3")	6" o.c.	
Wall Sheathing	Per code	

 Professional BUILDERS SUPPLY <i>...it's about the service!!!</i>	
3941 USHwy 421 North Wilmington, NC 28401 (910) 386-4300	
DRAWN BY: JJC	
DATE: 09-09-2025	
SCALE: 1/4" = 1'-0"	
SALESPERSON: Kevin Martin	
BUILDER NAME: New Home Inc.	PROJECT NAME: Lot 47 Duncans Creek (808 Beacon Hill Road - Lillington, NC)
LEVEL NAME: 1st Floor Framing Layout	
PAGE: 1	



ROOF & FLOOR TRUSSES & BEAMS

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

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

Signature Sales Area

Sales Area

LOAD CHART FOR JACK STUDS

(BASED ON TABLES R502.5(1) & (b))					
NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER					
END REACTION (UP TO)	REQ'D STUDS FOR (1) FLY HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (1) FLY HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (1) FLY HEADER
1700	1	2550	1	3400	1
3400	2	5100	2	6800	2
5100	3	7650	3	10200	3
6800	4	10200	4	13600	4
8500	5	12750	5	17000	5
10200	6	15300	6		
11900	7				
13600	8				
15300	9				

		Lillington / Harnett			
		808 Beacon Hill Road			
		Floor			
		9/9/25			
		Johnnie Baggett			
		House Account			
CITY / CO.	ADDRESS	MODEL	DATE REV.	DRAWN BY	SALES REP.
New Home Inc.	Lot 47 Duncan's Creek	The Selma - Farmhouse - Face	Seal Date	Quote #	251033 - B
BUILDER	JOB NAME	PLAN	SEAL DATE	QUOTE #	JOB #

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

Plumbing Drop Notes
1. Plumbing drop locations shown are NOT exact.
2. Contractor to verify ALL plumbing drop locations prior to setting Floor Trusses.
3. Adjust spacing as needed not to exceed 19.2"oc or 16"oc.

Dimension Notes
1. All exterior wall to wall dimensions are to face of sheathing 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

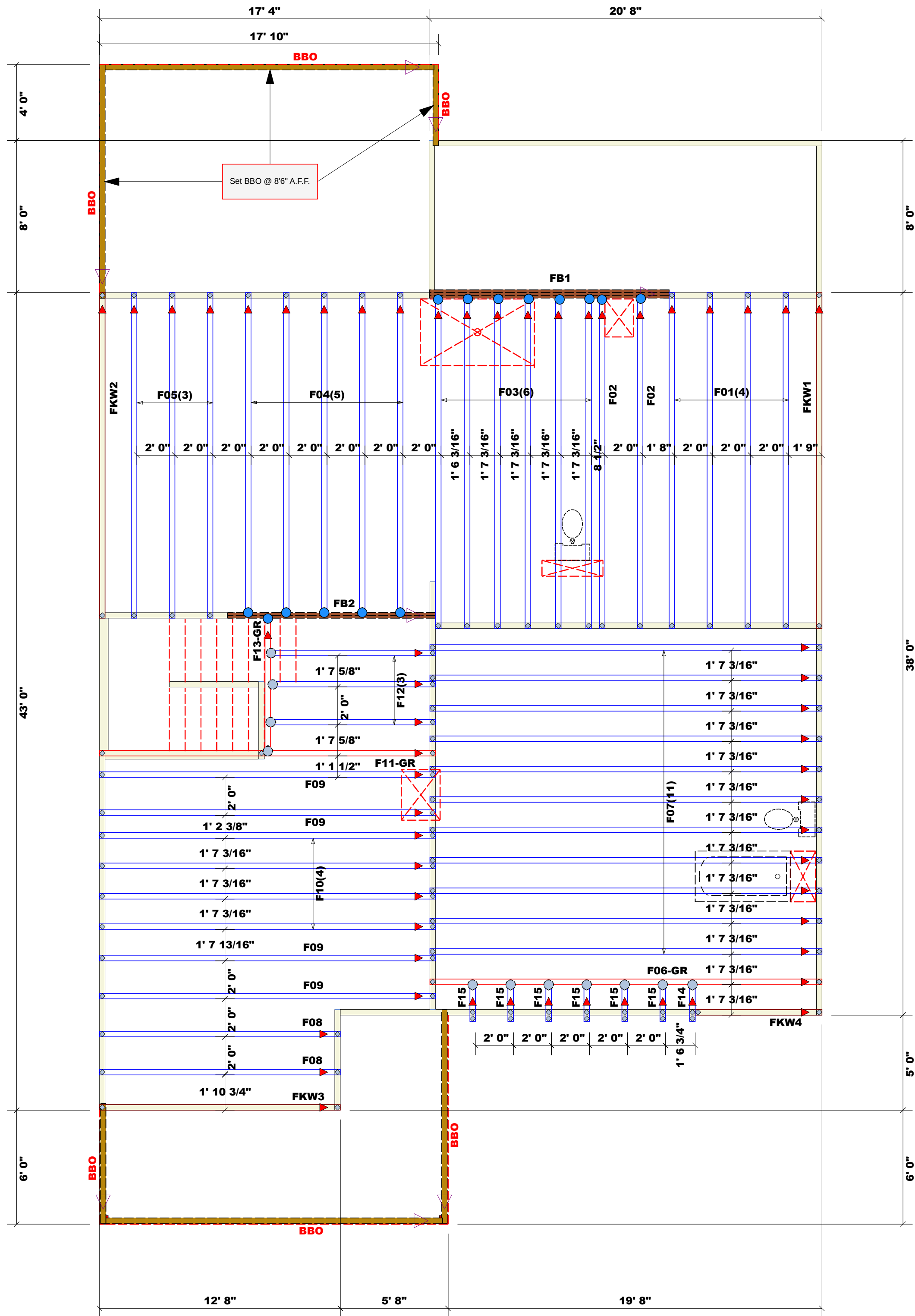
= Indicates Left End of Truss (Reference Engineered Truss Drawing)
Do Not Erect Trusses Backwards

WALL SCHEDULE

1st Floor Walls	
2nd Floor Walls	
Non-Bearing Walls	
Garage Walls Dropped	

Products					
Net Qty	Plies	Product	Length	PlotID	
3	3	1-3/4"x 14" LVL Kerto-S	12' 7 1/2"	FB1	
2	2	1-3/4"x 14" LVL Kerto-S	10' 11 1/4"	FB2	

Nail Information		Connector Information				
Truss	Header	Supported Member	Qty	Manuf	Product	Sym
16d/3-1/2"	16d/3-1/2"	NA	14	USP	HUS410	
10d/3"	10d/3"	Varies	11	USP	MSH422	



Truss Placement Plan
SCALE: NTS

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



ROOF & FLOOR TRUSSES & BEAMS

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

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

Signature Sales Area

Sales Area

LOAD CHART FOR JACK STUDS

(BASED ON TABLES R502.5(1) & (b))					
NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER					
END REACTION (UP TO)	REQ'D STUDS FOR (1) 1" X 1" HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (1) 1" X 1" HEADER	END REACTION (UP TO)	REQ'D STUDS FOR (1) 1" X 1" HEADER
1700	1	2550	1	3400	1
3400	2	5100	2	6800	2
5100	3	7650	3	10200	3
6800	4	10200	4	13600	4
8500	5	12750	5	17000	5
10200	6	15300	6		
11900	7				
13600	8				
15300	9				

	CITY / CO.	Lillington / Harnett
	ADDRESS	808 Beacon Hill Road
	MODEL	Roof
	DATE REV.	9/9/25
	DRAWN BY	Johnnie Baggett
	SALES REP.	House Account
BUILDER	New Home Inc.	
JOB NAME	Lot 47 Duncan's Creek	
PLAN	The Selma - Farmhouse - Face	
SEAL DATE	Seal Date	
QUOTE #	B0724-4230	
JOB #	251033 - A	

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

- Plumbing Drop Notes
1. Plumbing drop locations shown are NOT exact.
 2. Contractor to verify ALL plumbing drop locations prior to setting Floor Trusses.
 3. Adjust spacing as needed not to exceed 19.2" oc or 16" oc.

- Dimension Notes
1. All exterior wall to wall dimensions are to face of sheathing 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

= 2569.6 sq.ft.	Roof Area
= 82.18 ft.	Ridge Line
= 0 ft.	Hip Line
= 185.9 ft.	Horiz. OH
= 202.68 ft.	Raked OH
= 88 sheets	Decking

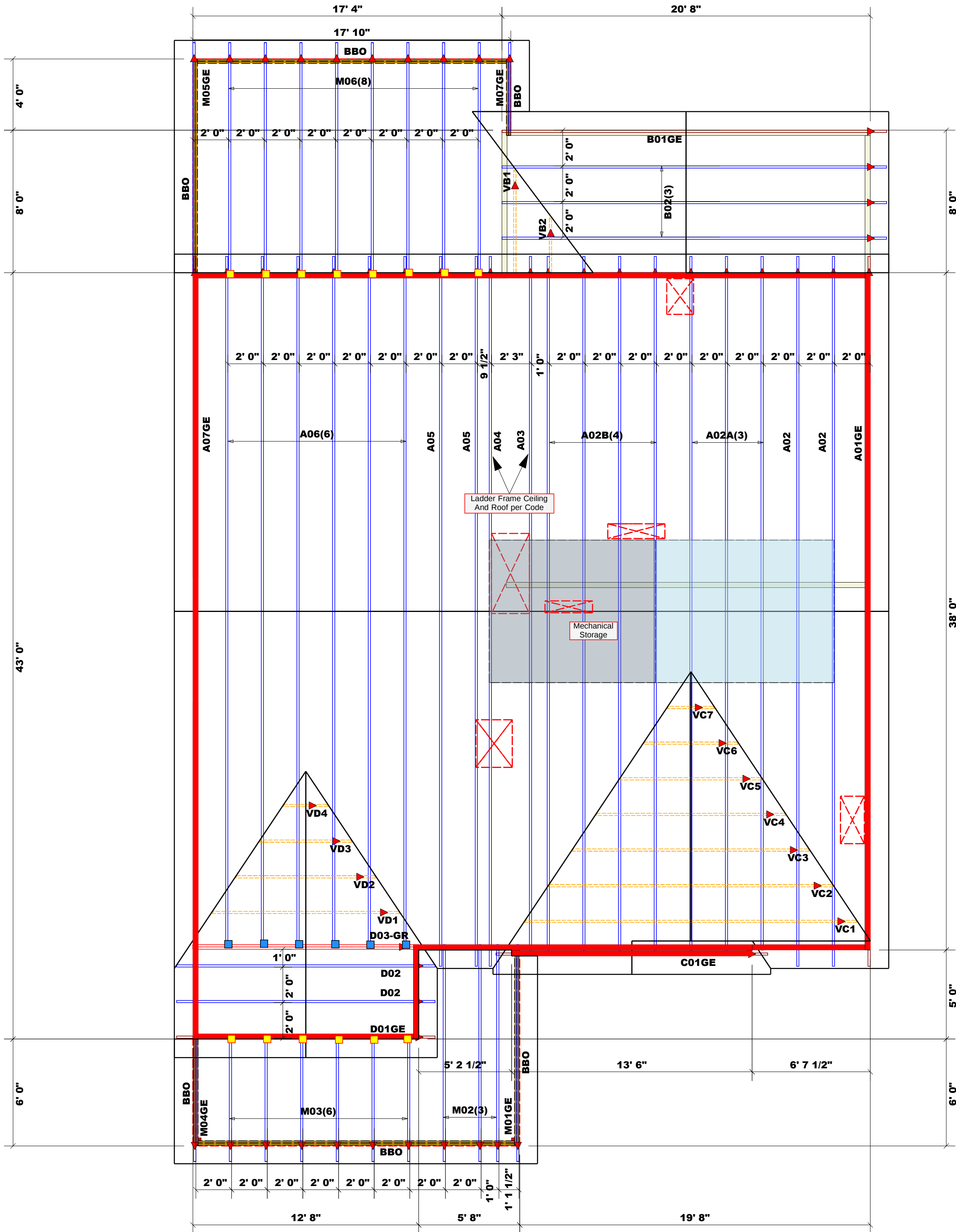
All Walls Shown Are Considered Load Bearing

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

WALL SCHEDULE

1st Floor Walls	
2nd Floor Walls	
Non-Bearing Walls	
Garage Walls Dropped	

Nail Information		Connector Information				
Truss	Header	Supported Member	Qty	Manuf	Product	Sym
16d/3-1/2"	16d/3-1/2"	NA	6	USP	HUS26	
10d/3"	10d/3"	NA	14	USP	JUS24	



RE: 251033 - A
Lot 47 Duncan's Creek

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: New Home Inc. Project Name: 251033 - A
Lot/Block: 47 Model:
Address: Subdivision: Duncan's Creek
City: State:

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

Design Code: IRC2021/TPI2014 Design Program: MiTek 20/20 8.6
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 35 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I75099558	A01GE	7/23/2025	21	I75099578	M06	7/23/2025
2	I75099559	A02	7/23/2025	22	I75099579	M07GE	7/23/2025
3	I75099560	A02A	7/23/2025	23	I75099580	VB1	7/23/2025
4	I75099561	A02B	7/23/2025	24	I75099581	VB2	7/23/2025
5	I75099562	A03	7/23/2025	25	I75099582	VC1	7/23/2025
6	I75099563	A04	7/23/2025	26	I75099583	VC2	7/23/2025
7	I75099564	A05	7/23/2025	27	I75099584	VC3	7/23/2025
8	I75099565	A06	7/23/2025	28	I75099585	VC4	7/23/2025
9	I75099566	A07GE	7/23/2025	29	I75099586	VC5	7/23/2025
10	I75099567	B01GE	7/23/2025	30	I75099587	VC6	7/23/2025
11	I75099568	B02	7/23/2025	31	I75099588	VC7	7/23/2025
12	I75099569	C01GE	7/23/2025	32	I75099589	VD1	7/23/2025
13	I75099570	D01GE	7/23/2025	33	I75099590	VD2	7/23/2025
14	I75099571	D02	7/23/2025	34	I75099591	VD3	7/23/2025
15	I75099572	D03-GR	7/23/2025	35	I75099592	VD4	7/23/2025
16	I75099573	M01GE	7/23/2025				
17	I75099574	M02	7/23/2025				
18	I75099575	M03	7/23/2025				
19	I75099576	M04GE	7/23/2025				
20	I75099577	M05GE	7/23/2025				

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

Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844

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



Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - A	A01GE	GABLE	1	1	175099558

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:29 2025 Page 1
ID:twY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Job Reference (optional)

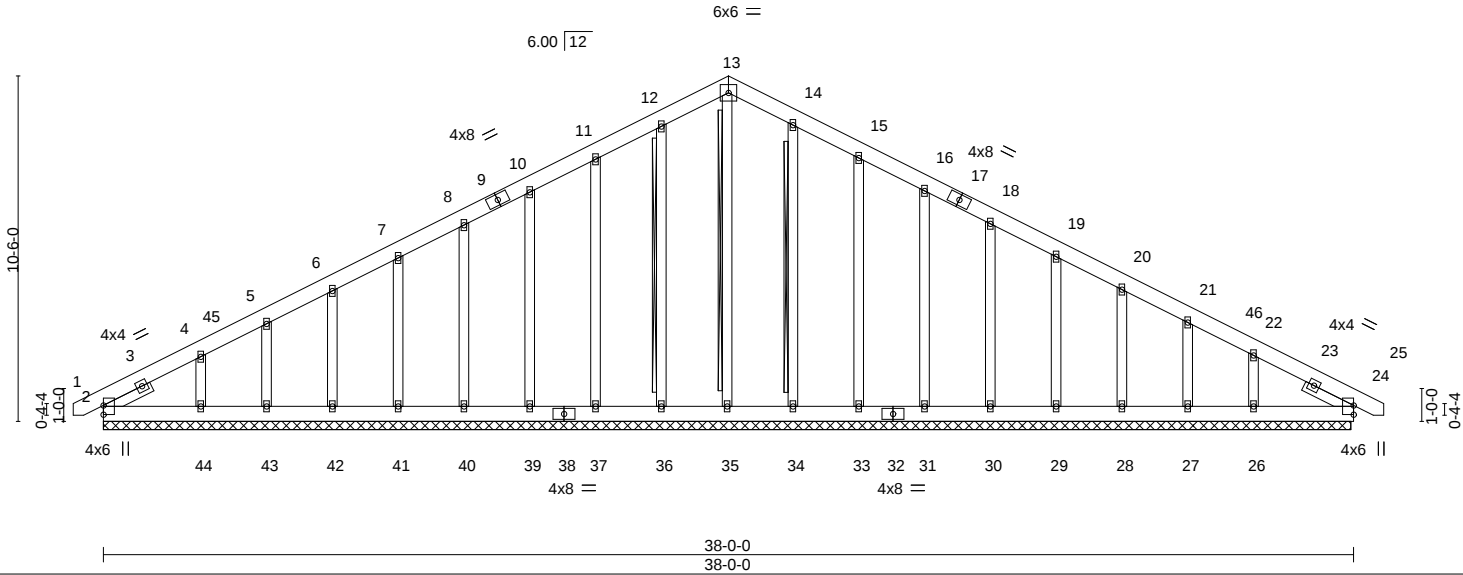
0-11-0
0-11-0

19-0-0
19-0-0

38-0-0
19-0-0

38-11-0
0-11-0

Scale = 1:70.0



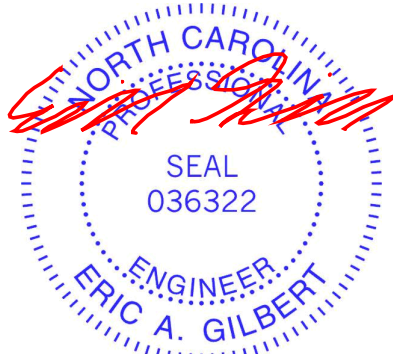
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.05	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(LL) 0.00 24 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.13	Vert(CT) 0.00 24 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 24 n/a n/a		
	Code IRC2021/TPI2014			Weight: 334 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 T-Brace: 2x4 SPF No.2 - 13-35, 12-36, 14-34
SLIDER Left 2x4 SP No.2 1-7-0, Right 2x4 SP No.2 1-7-9	Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 37-11-0.
(lb) - Max Horz 2=-200(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) 2, 36, 37, 39, 40, 41, 42, 43, 34, 33, 31, 30, 29, 28, 27 except
44=-165(LC 12), 26=-148(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 35, 36, 37, 39, 40, 41, 42, 43, 44, 34, 33, 31, 30, 29, 28, 27, 26, 24

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-258/92, 10-11=-108/267, 11-12=-130/330, 12-13=-144/370, 13-14=-144/369, 14-15=-131/332, 15-16=-109/269

- 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) gable end zone and C-C Corner(3E) -0-9-2 to 3-7-11, Exterior(2N) 3-7-11 to 19-0-0, Corner(3R) 19-0-0 to 23-4-13, Exterior(2N) 23-4-13 to 38-9-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 36, 37, 39, 40, 41, 42, 43, 34, 33, 31, 30, 29, 28, 27 except (jt=lb) 44=165, 26=148.
 - Non Standard bearing condition. Review required.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



July 23, 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)

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. Tue Jul 22 15:51:30 2025 Page 1
 ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWrCDoi7J4zJC?f
 0-11-0 9-5-10 19-0-0 28-6-6 38-0-0 39-11-0
 0-11-0 9-5-10 9-6-6 9-6-6 9-5-10 0-11-0

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 0.30	Vert(LL) -0.19 12-17 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.70	Vert(CT) -0.29 12-17 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.33	Horz(CT) 0.07 10 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-AS	Wind(LL) 0.06 12-17 >999 240	Weight: 271 lb	FT = 20%

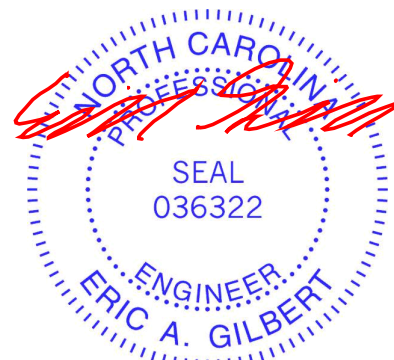
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 2-6-0, Right 2x4 SP No.2 2-6-0

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

(size) 2=0-3-8, 10=0-3-8
 Max Horz 2=129(LC 11)
 Max Uplift 2=-101(LC 12), 10=-101(LC 13)
 Max Grav 2=1855(LC 2), 10=1855(LC 2)

TOP CHORD 2-4=-2935/548, 4-6=-2729/570, 6-8=-2729/570, 8-10=-2935/548
BOT CHORD 2-17=-355/2606, 12-17=-128/1774, 10-12=-353/2554
WEBS 4-17=-511/302, 6-17=-122/1133, 6-12=-122/1133, 8-12=-511/302

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCFL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 19-0-0, Exterior(2R) 19-0-0 to 23-4-13, Interior(1) 23-4-13 to 38-9-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 4x4 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) 2=101, 10=101.
- 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.



July 23, 2025



WARNING – Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-17-15169: 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.sbcacomponents.com)

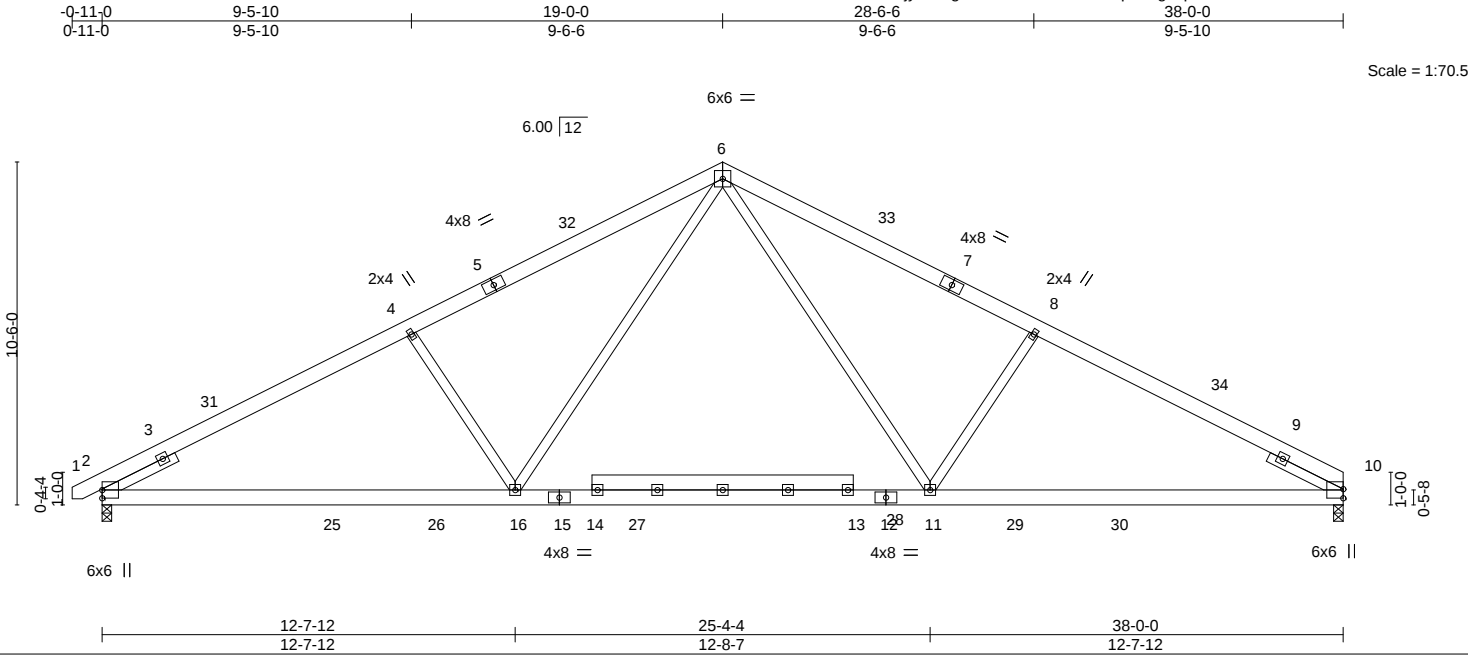


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - A	A02A	FINK	3	1	175099560

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:30 2025 Page 1
ID:twY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.30	Vert(LL)	-0.19 11-16	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.70	Vert(CT)	-0.29 11-16	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.33	Horz(CT)	0.07 10	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Wind(LL)	0.06 11-16	>999	240		
	Code IRC2021/TPI2014						Weight: 269 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 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=130(LC 9)
Max Uplift 2=-101(LC 12), 10=-91(LC 13)
Max Grav 2=1855(LC 2), 10=1817(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2936/548, 4-6=-2730/570, 6-8=-2731/576, 8-10=-2937/554
BOT CHORD 2-16=-382/2602, 11-16=-155/1770, 10-11=-368/2556
WEBS 4-16=-511/302, 6-16=-121/1132, 6-11=-122/1135, 8-11=-512/302

- 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) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 19-0-0, Exterior(2R) 19-0-0 to 23-4-13, Interior(1) 23-4-13 to 38-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 4x4 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=101.
 - 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.



July 23,2025

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

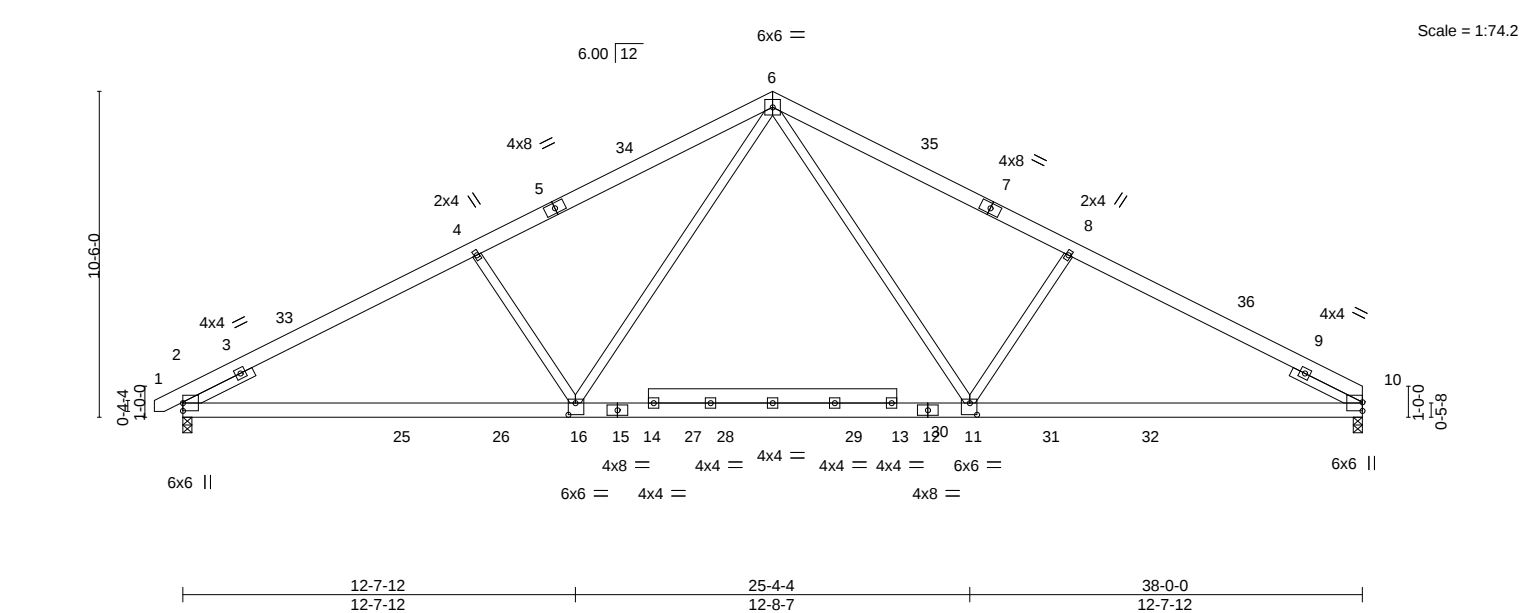
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - A	A02B	FINK	4	1	175099561

Comtech, Inc., Fayetteville, NC - 28314,	8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:31 2025 Page 1
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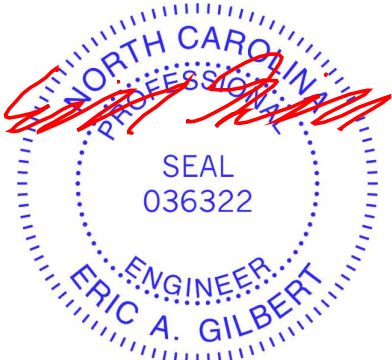
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.19 11-16 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.38 11-16 >999 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.07 10 n/a n/a				
BCDL	10.0	Code IRC2021/TPI2014		Matrix-AS		Wind(LL)	0.06 11-16 >999 240				
								Weight: 269 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.2		
SLIDER	Left 2x4 SP No.2 2-6-0, Right 2x4 SP No.2 2-6-0		

REACTIONS.	
(size)	2=0-3-8, 10=0-3-8
Max Horz	2=130(LC 9)
Max Uplift	2=-1(LC 12)
Max Grav	2=1955(LC 2), 10=1917(LC 2)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-4=-3148/336, 4-6=-2943/357, 6-8=-2945/362, 8-10=-3149/342
BOT CHORD	2-16=-198/2786, 11-16=-20/1905, 10-11=-184/2740
WEBS	4-16=-494/319, 6-16=-13/1241, 6-11=-13/1243, 8-11=-495/319

- 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) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 19-0-0, Exterior(2R) 19-0-0 to 23-4-13, Interior(1) 23-4-13 to 38-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 200.0lb AC unit load placed on the bottom chord, 19-0-0 from left end, supported at two points, 5-0-0 apart.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
 - 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.



July 23,2025

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - A	A03	FINK	1	1	175099562

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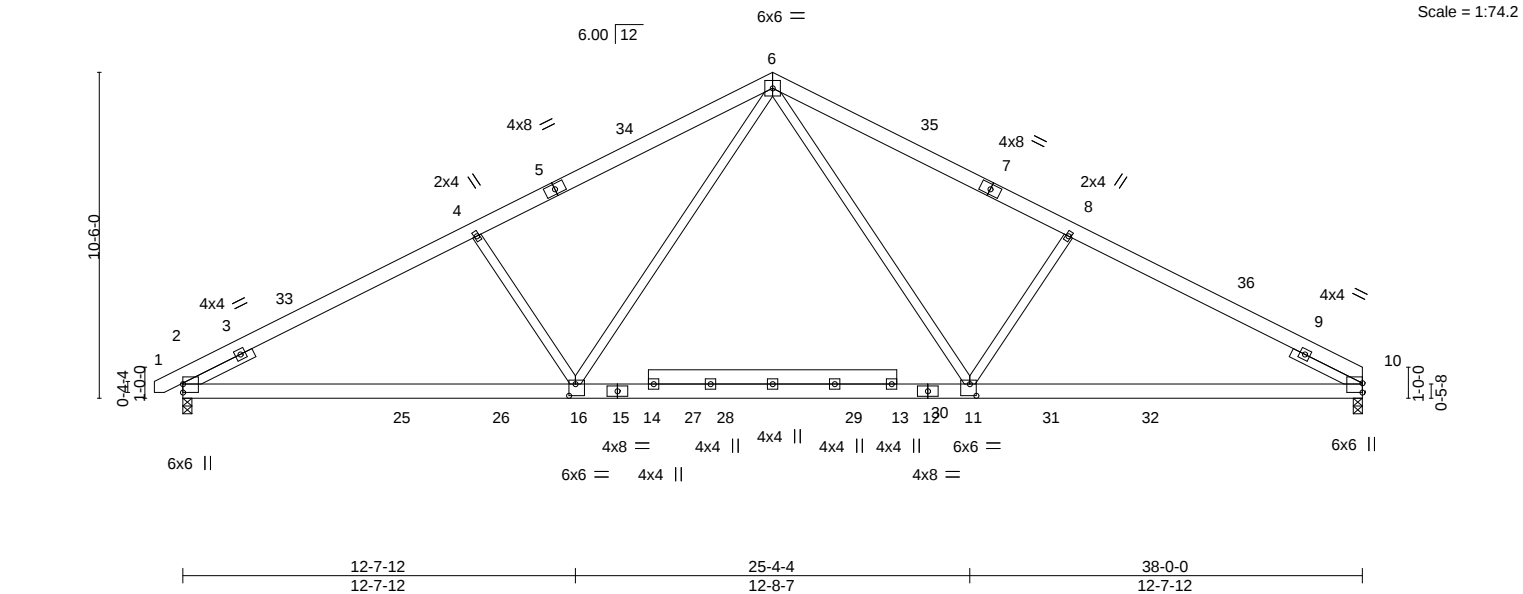
8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:32 2025 Page 1

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Job Reference (optional)

0-11-0 9-5-10 19-0-0 28-6-6 38-0-0

0-11-0 9-5-10 9-6-6 9-6-6 9-5-10



LOADING (psf)	SPACING-	2-1-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.64	Vert(LL)	-0.20 11-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.91	Vert(CT)	-0.40 11-16	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.34	Horz(CT)	0.08 10	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-MS	Wind(LL)	0.06 11-16	>999	240	Weight: 269 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-10-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
SLIDER Left 2x4 SP No.2 2-6-0, Right 2x4 SP No.2 2-6-0	

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=135(LC 11)
Max Uplift 2=-5(LC 12)
Max Grav 2=2033(LC 2), 10=1992(LC 2)

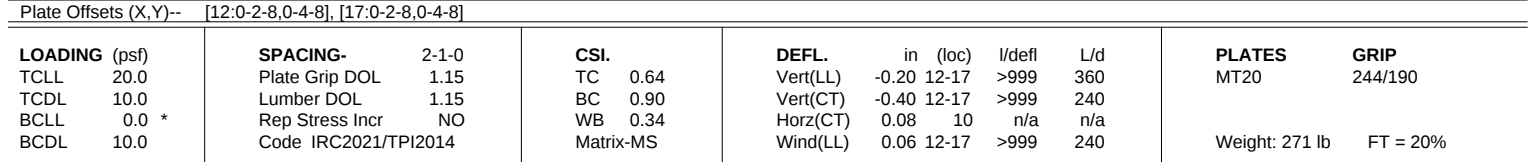
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-3276/361, 4-6=-3062/382, 6-8=-3063/388, 8-10=-3278/367
BOT CHORD 2-16=-217/2902, 11-16=-22/1970, 10-11=-202/2855
WEBS 4-16=-528/339, 6-16=-25/1303, 6-11=-25/1305, 8-11=-530/339

- 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) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 19-0-0, Exterior(2R) 19-0-0 to 23-4-13, Interior(1) 23-4-13 to 38-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 200.0lb AC unit load placed on the bottom chord, 19-0-0 from left end, supported at two points, 5-0-0 apart.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.



July 23,2025

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 -0-11-0 9-5-10 19-0-0 28-6-6 38-0-0 38-11-0
 0-11-0 9-5-10 9-6-6 9-6-6 9-5-10 0-11-0



REACTIONS. (size) 2=0-3-8, 10=0-3-8
 Max Horz 2=-134(LC 10)
 Max Uplift 2=-5(LC 12), 10=-5(LC 13)
 Max Grav 2=2032(LC 2), 10=2032(LC 2)

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

TOP CHORD	2-4=-3276/361, 4-6=-3061/382, 6-8=-3061/382, 8-10=-3276/361
BOT CHORD	2-17=-189/2907, 12-17=0/1974, 10-12=-186/2853
WEBS	4-17=-528/339, 6-17=-25/1303, 6-12=-25/1303, 8-12=-528/339

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

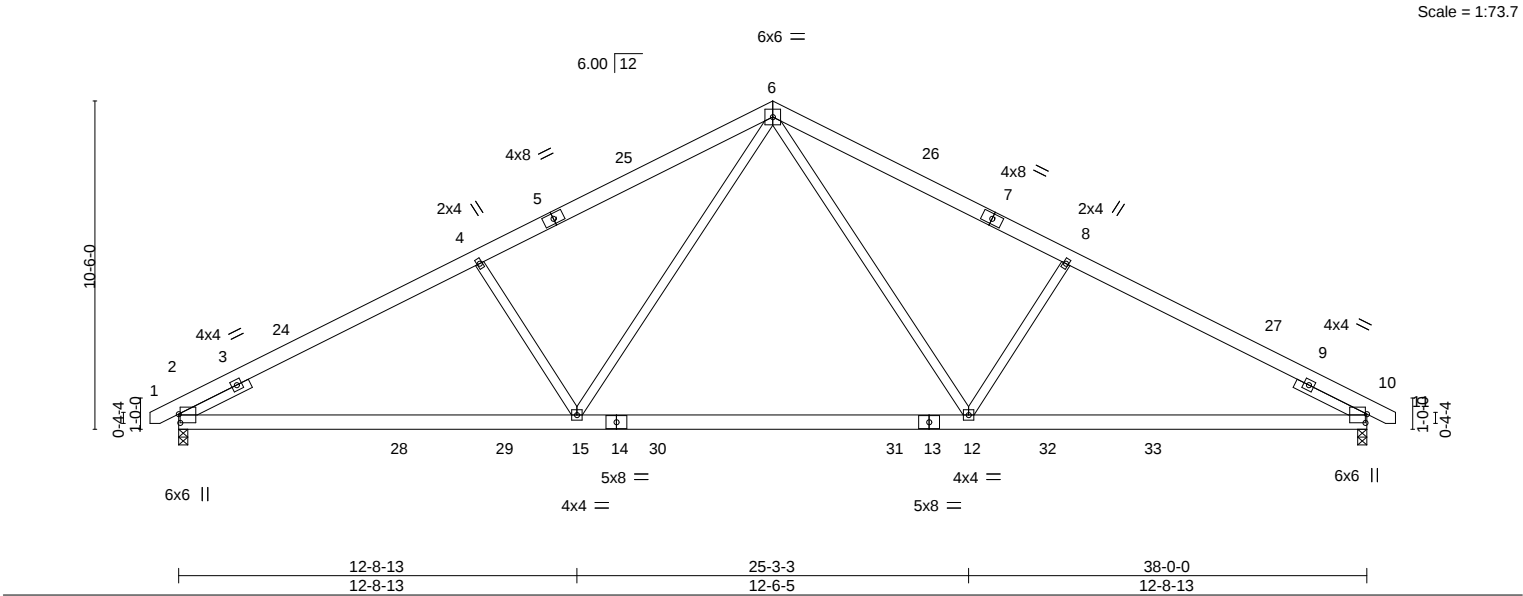
Design valid for use only with MiTEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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.tpinet.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - A	A05	COMMON	2	1	175099564

Comtech, Inc., Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:33 2025 Page 1
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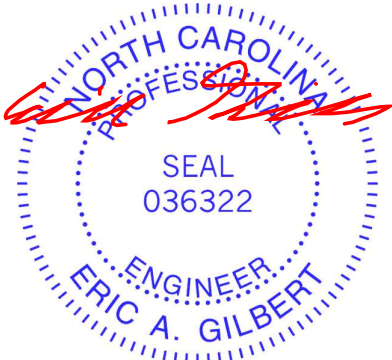
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.30	Vert(LL) -0.35	12-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.74	Vert(CT) -0.51	12-15	>889	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.33	Horz(CT) 0.08	10	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014	Matrix-AS	Wind(LL) 0.06	12-15	>999	240	Weight: 252 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	
SLIDER Left 2x4 SP No.2 2-6-0, Right 2x4 SP No.2 2-6-0	

REACTIONS.	(size) 2=0-3-8, 10=0-3-8
	Max Horz 2=-129(LC 10)
	Max Uplift 2=-101(LC 12), 10=-101(LC 13)
	Max Grav 2=1868(LC 2), 10=1868(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-2973/543, 4-6=-2771/569, 6-8=-2771/569, 8-10=-2973/543
BOT CHORD	2-15=-349/2635, 12-15=-124/1808, 10-12=-347/2583
WEBS	6-12=-125/1155, 8-12=-508/304, 6-15=-125/1155, 4-15=-508/304

- 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) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 19-0-0, Exterior(2R) 19-0-0 to 23-4-13, Interior(1) 23-4-13 to 38-9-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=101, 10=101.
 - 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.



July 23,2025

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - A	A06	FINK	6	1	175099565

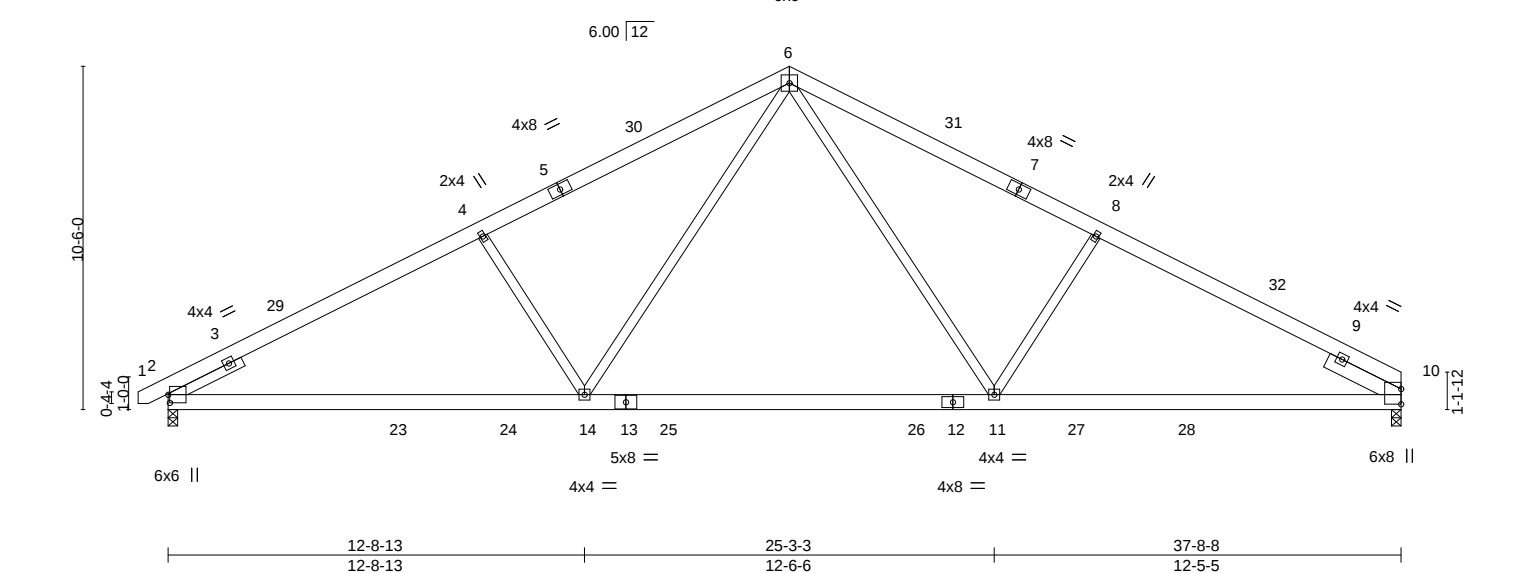
Comtech, Inc., Fayetteville, NC 28309

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8.630 s Aug 30 2023 MiTek Industries, Inc. Wed Jul 23 11:10:33 2025 Page 1

Job Reference (optional)

Scale = 1:70.5



Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - A	A07GE	COMMON SUPPORTED GAB	1	1	175099566
Job Reference (optional)					

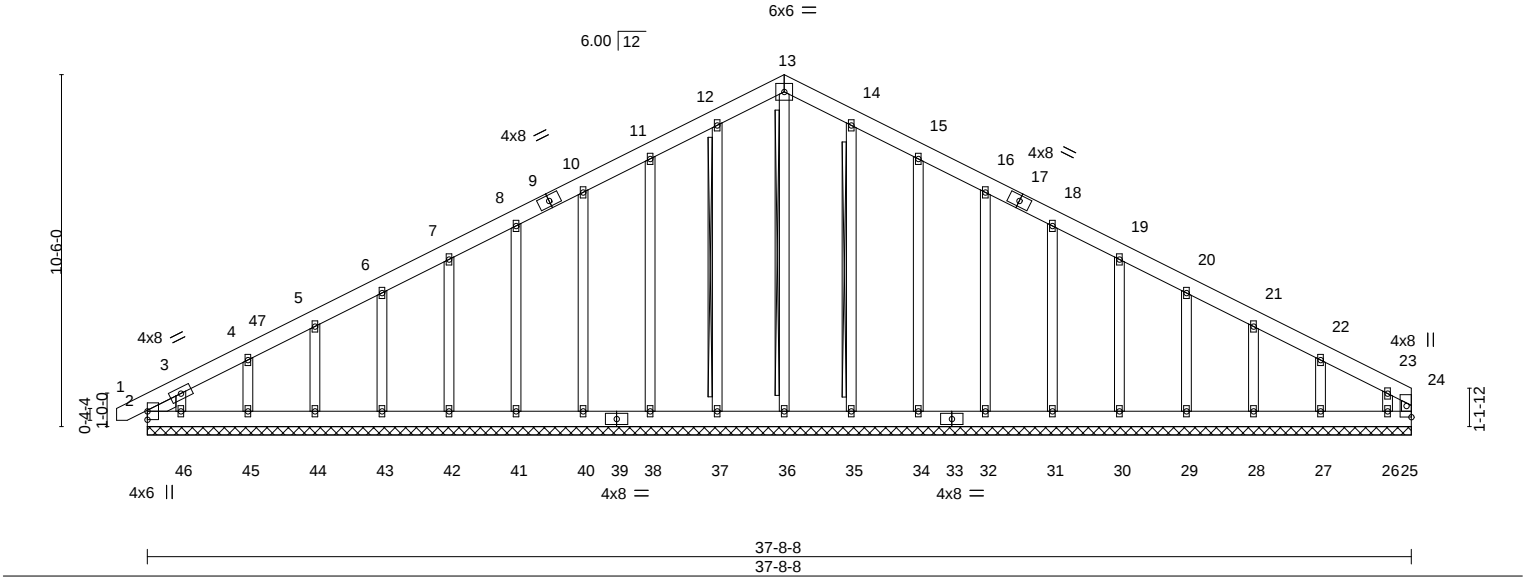
Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:35 2025 Page 1

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-0-11-0 19-0-0 37-8-8 18-8-8

Scale = 1:68.7



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.09	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) -0.00 1 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.13	Vert(CT) -0.00 1 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 25 n/a n/a		
	Code IRC2021/TPI2014			Weight: 329 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	TOP CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	BOT CHORD T-Brace: 2x4 SPF No.2 - 13-36, 12-37, 14-35
OTHERS 2x4 SP No.2	Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
SLIDER Left 2x4 SP No.2 0-11-10	Brace must cover 90% of web length.

REACTIONS. All bearings 37-8-8.

(lb) - Max Horz 2=217(LC 12)

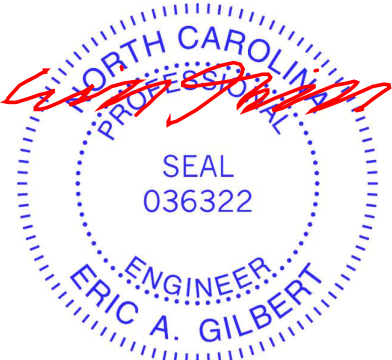
Max Uplift All uplift 100 lb or less at joint(s) 25, 2, 37, 38, 40, 41, 42, 43, 44, 45, 35, 34, 32, 31, 30, 29, 28, 27 except 46=-172(LC 12), 26=-236(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 36, 37, 38, 40, 41, 42, 43, 44, 45, 46, 35, 34, 32, 31, 30, 29, 28, 27, 26 except 25=256(LC 13)

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

TOP CHORD 2-3=-338/113, 10-11=-102/283, 11-12=-125/346, 12-13=-138/383, 13-14=-138/383, 14-15=-125/346, 15-16=-102/283

- 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) gable end zone and C-C Corner(3E) 0-9-2 to 3-7-11, Exterior(2N) 3-7-11 to 19-0-0, Corner(3R) 19-0-0 to 23-4-13, Exterior(2N) 23-4-13 to 37-6-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 2, 37, 38, 40, 41, 42, 43, 44, 45, 35, 34, 32, 31, 30, 29, 28, 27 except (jt=lb) 46=172, 26=236.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



July 23,2025

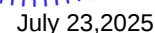
Comtech, Inc. Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:35 2025 Page 1
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 0-11-0 10-4-0 20-8-0
 0-11-0 10-4-0 10-4-0

Technical drawing of a roof truss system. The drawing shows a cross-section of a roof with a gabled structure. The roof is supported by a series of vertical posts (labeled 1 through 13) and horizontal beams (labeled 14 through 26). The roof slope is indicated by a 4:5.5 ratio. The total width of the roof is 20.8-0. The drawing includes various annotations such as '4x4 =', '5x5 =', '3x6 ||', and '4x6 ='. The roof is shown with a cross-hatched pattern, and the supporting structure is shown with a solid pattern.

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

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-8-5 to 3-8-8, Exterior(2N) 3-8-8 to 10-4-0, Corner(3R) 10-4-0 to 14-8-13, Exterior(2N) 14-8-13 to 20-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable 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) 14, 2, 21, 22, 23, 24, 19, 17, 16, 15.



Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - A	B02	KINGPOST	3	1	175099568

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8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:36 2025 Page 1
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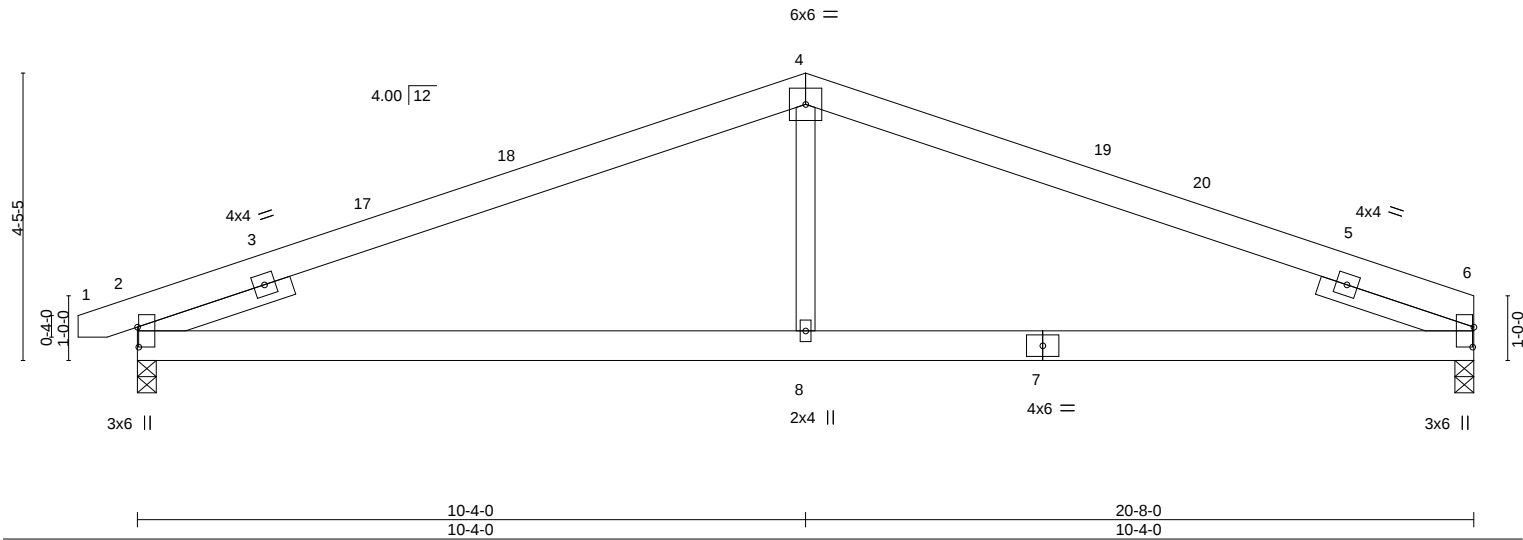
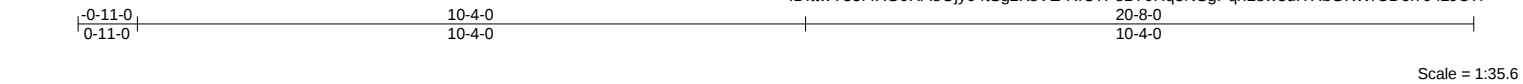


Plate Offsets (X,Y)-- [2:0-3-11,0-0-4], [6:0-3-11,0-0-4]									
LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.33	Vert(LL)	-0.06	8-11	>999	360	MT20 244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.32	Vert(CT)	-0.11	8-11	>999	240	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.02	2	n/a	n/a	
BCDL 10.0	Code IRC2021/TPI2014		Matrix-AS	Wind(LL)	0.04	8-15	>999	240	Weight: 115 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 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) 6=0-3-8, 2=0-3-8
Max Horz 2=47(LC 12)
Max Uplift 6=-64(LC 9), 2=-89(LC 8)
Max Grav 6=826(LC 1), 2=869(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1321/469, 4-6=-1308/474
BOT CHORD 2-8=-342/1219, 6-8=-342/1219
WEBS 4-8=0/418

- 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) -0-8-5 to 3-8-8, Interior(1) 3-8-8 to 10-4-0, Exterior(2R) 10-4-0 to 14-8-13, Interior(1) 14-8-13 to 20-8-0 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 100 lb uplift at joint(s) 6, 2.
 - 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.



July 23,2025

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

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - A	C01GE	GABLE	1	1	175099569

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:36 2025 Page 1
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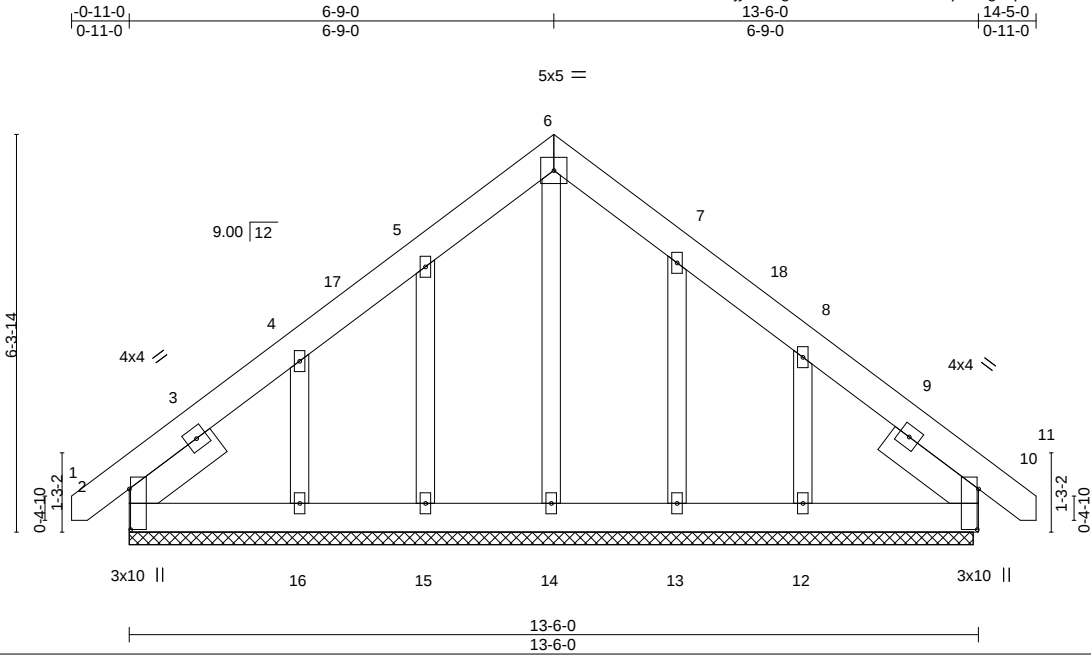


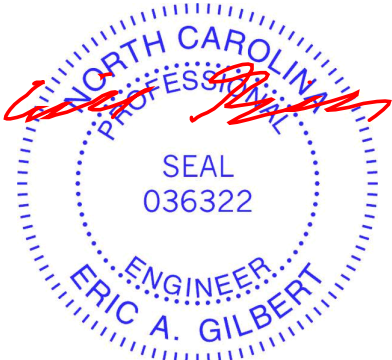
Plate Offsets (X,Y)--		[2:0-7-12,0-0-4], [10:0-7-12,0-0-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04
TCDL 10.0	Lumber DOL	1.15	BC 0.03
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09
BCDL 10.0	Code	IRC2021/TPI2014	Matrix-S
			DEFL.
			in (loc)
			l/defl
			L/d
			PLATES
			MT20
			GRIP
			244/190
			Weight: 112 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	
SLIDER Left 2x6 SP No.1 1-8-14, Right 2x6 SP No.1 1-9-8	

REACTIONS.	All bearings 13-5-0.
(lb) - Max Horz 2=-173(LC 8)	
Max Uplift	All uplift 100 lb or less at joint(s) 2, 10, 15, 13 except 16=-185(LC 12), 12=-181(LC 13)
Max Grav	All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 13 except 16=252(LC 19), 12=251(LC 20)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS	4-16=-187/283, 8-12=-186/287

- 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) gable end zone and C-C Corner(3E) -0-9-8 to 3-7-5, Exterior(2N) 3-7-5 to 6-9-0, Corner(3R) 6-9-0 to 11-1-13, Exterior(2N) 11-1-13 to 14-3-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 13 except (jt=lb) 16=185, 12=181.
 - Non Standard bearing condition. Review required.



July 23,2025

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - A	D01GE	COMMON SUPPORTED GAB	1	1	175099570

Comtech, Inc., Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:37 2025 Page 1
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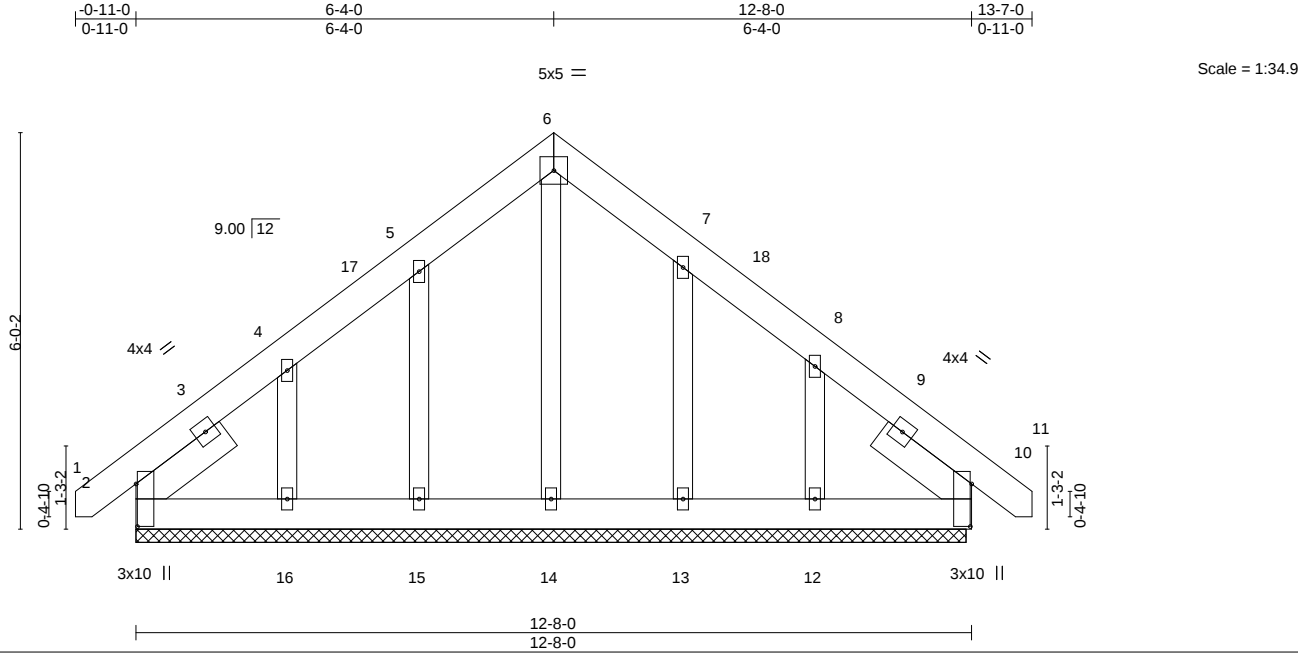


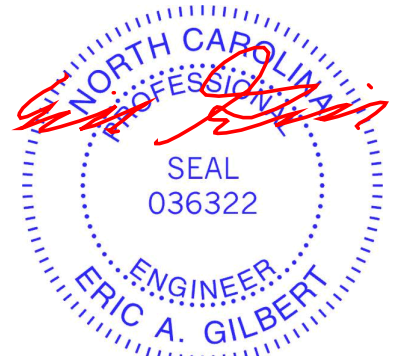
Plate Offsets (X,Y)--		[2:0-7-12,0-0-4], [10:0-7-12,0-0-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04
TCDL 10.0	Lumber DOL	1.15	BC 0.03
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07
BCDL 10.0	Code	IRC2021/TPI2014	Matrix-S
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	0.00 10 n/r 120
		Vert(CT)	0.00 10 n/r 120
		Horz(CT)	0.00 10 n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 105 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	
SLIDER Left 2x6 SP No.1 1-8-9, Right 2x6 SP No.1 1-8-9	

REACTIONS. All bearings 12-7-0.
(lb) - Max Horz 2=164(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 13 except 16=-172(LC 12), 12=-168(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-16=-169/272, 8-12=-173/276

- 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) gable end zone and C-C Corner(3E) -0-9-8 to 3-7-5, Exterior(2N) 3-7-5 to 6-4-0, Corner(3R) 6-4-0 to 10-8-13, Exterior(2N) 10-8-13 to 13-5-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 13 except (jt=lb) 16=172, 12=168.
 - Non Standard bearing condition. Review required.



July 23,2025

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - A	D02	COMMON	2	1	175099571

Comtech, Inc., Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:37 2025 Page 1
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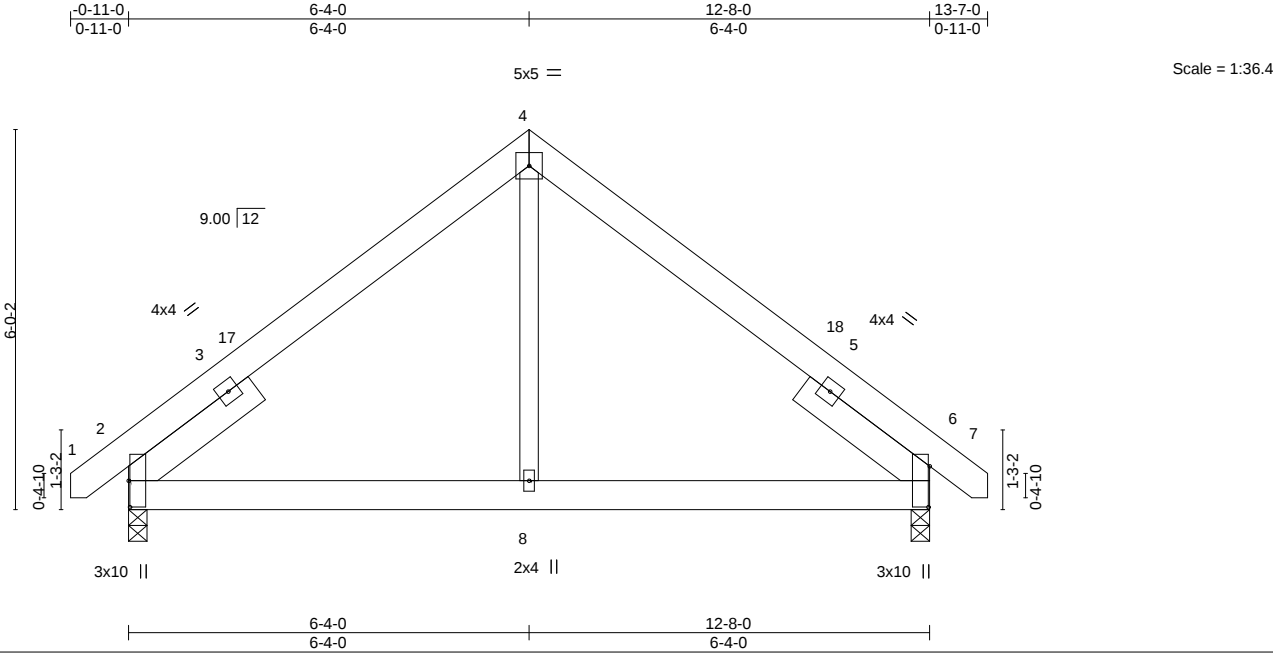


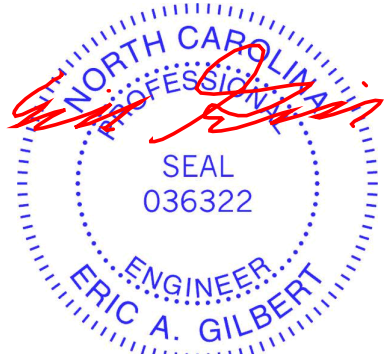
Plate Offsets (X,Y)--		[2:0-5-0,0-0-4], [6:0-7-12,0-0-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.11
TCDL 10.0	Lumber DOL	1.15	BC 0.11
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06
BCDL 10.0	Code	IRC2021/TPI2014	Matrix-AS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.01 8-15 >999 360
			Vert(CT) -0.02 8-15 >999 240
			Horz(CT) 0.01 2 n/a n/a
			Wind(LL) 0.01 8-11 >999 240
			PLATES GRIP
			MT20 244/190
			Weight: 92 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	
SLIDER Left 2x6 SP No.1 2-6-0, Right 2x6 SP No.1 2-6-0	

REACTIONS.	(size) 2=0-3-8, 6=0-3-8
	Max Horz 2=128(LC 11)
	Max Uplift 2=-32(LC 12), 6=-32(LC 13)
	Max Grav 2=554(LC 1), 6=554(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-468/216, 4-6=-468/216
BOT CHORD	2-8=-0/344, 6-8=-0/344
WEBS	4-8=0/259

- 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) -0-9-8 to 3-7-5, Interior(1) 3-7-5 to 6-4-0, Exterior(2R) 6-4-0 to 10-8-13, Interior(1) 10-8-13 to 13-5-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
 - 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.



July 23,2025

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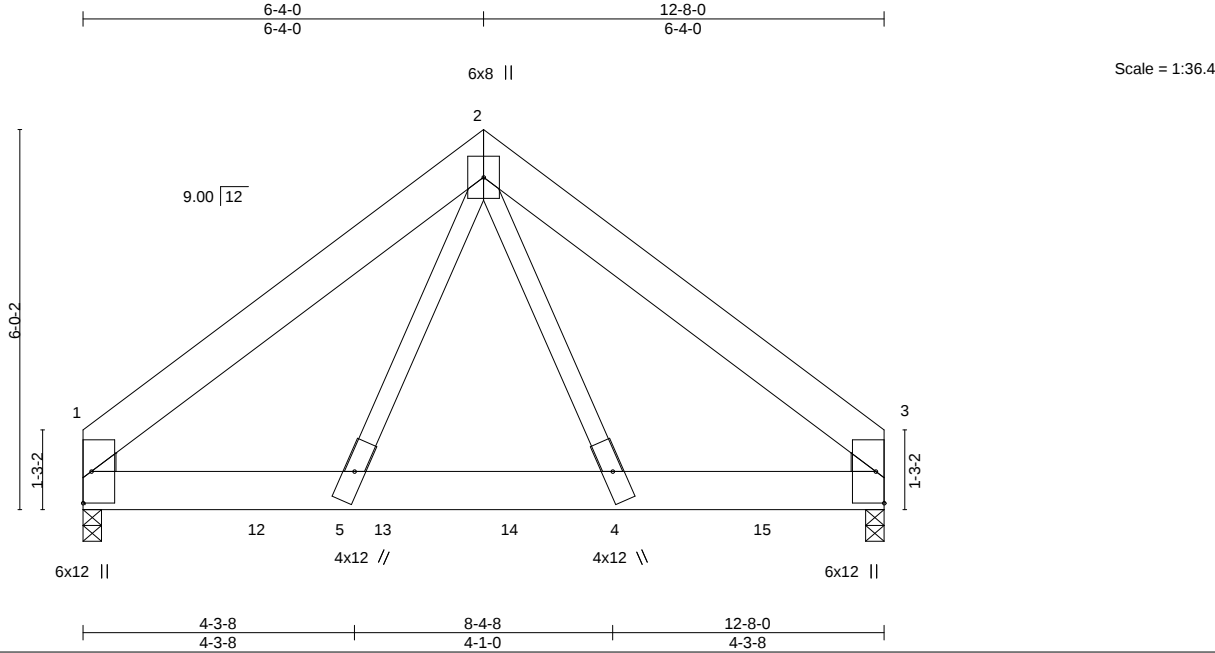
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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - A	D03-GR	COMMON GIRDER	1	2	175099572

Comtech, Inc., Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:38 2025 Page 1
ID:twY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcD0i7J4zJC?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 0.14	Vert(LL)	-0.05	4-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(CT)	-0.09	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.47	Horz(CT)	0.02	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-MS	Wind(LL)	0.03	4-5	>999	240	Weight: 214 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x8 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
WEDGE	
Left: 2x4 SP No.2 , Right: 2x4 SP No.2	

REACTIONS. (size) 1=0-3-8, 3=0-3-8
Max Horz 1=-114(LC 27)
Max Uplift 1=-354(LC 8), 3=-294(LC 9)
Max Grav 1=6394(LC 2), 3=5288(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-6103/376, 2-3=-6100/375
BOT CHORD 1-5=-249/4771, 4-5=-171/3332, 3-4=-231/4765
WEBS 2-4=-210/3815, 2-5=-210/3832

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 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
 - 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=354, 3=294.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1801 lb down and 107 lb up at 0-9-4, 1799 lb down and 109 lb up at 2-9-4, 1799 lb down and 109 lb up at 4-9-4, 1799 lb down and 109 lb up at 6-9-4, and 1799 lb down and 109 lb up at 8-9-4, and 1799 lb down and 109 lb up at 10-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 6-9=-20



July 23,2025

Continued on page 2

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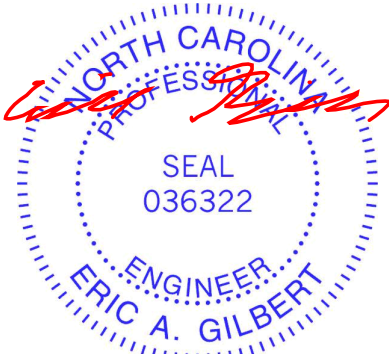
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - A	D03-GR	COMMON GIRDER	1	2	175099572

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:38 2025 Page 2
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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 4=-1488(B) 8=-1490(B) 12=-1488(B) 13=-1488(B) 14=-1488(B) 15=-1488(B)



July 23,2025

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ENGINEERING BY

TRENCO

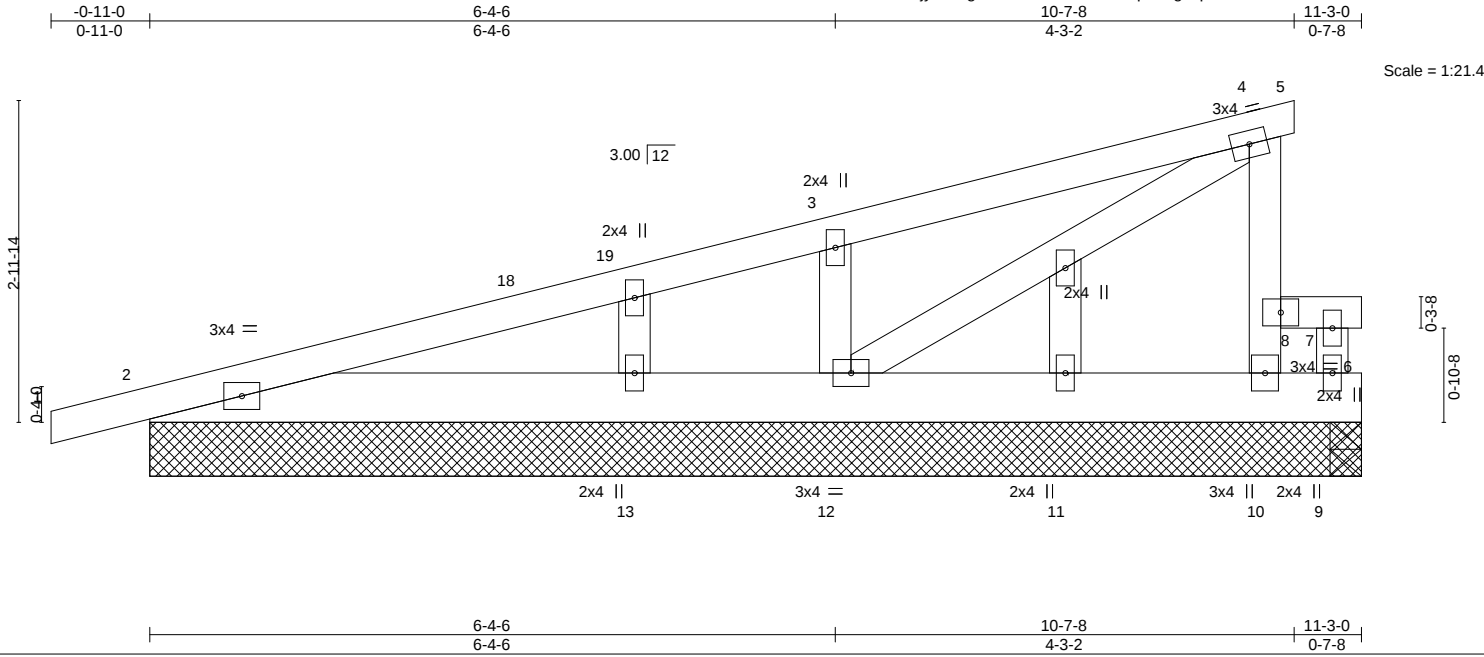
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek	175099573
251033 - A	M01GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:39 2025 Page 1
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.22	Vert(LL)	-0.01	17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	-0.01	17	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.06	Horz(CT)	-0.00	8	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-MS	Wind(LL)	0.01	17	>999	240	Weight: 60 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except:
BOT CHORD 2x4 SP No.1 *Except* 2-9: 2x6 SP No.1	6-0-0 oc bracing: 4-8
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 11-3-0 except (jt=length) 9=0-3-8, 9=0-3-8.
(lb) - Max Horz 2=138(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 13, 9 except 12=112(LC 8), 8=166(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 10, 2, 6, 11, 9, 9 except 12=251(LC 1), 8=470(LC 1), 13=260(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-12=-293/318

- 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) gable end zone and C-C Exterior(2E) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 10-7-8 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.
 - 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.
 - Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 13, 9 except (jt=lb) 12=112, 8=166.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 4-5=-20, 2-9=-20, 6-8=-20
Concentrated Loads (lb)
Vert: 8=-400



July 23,2025

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

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - A	M02	Monopitch	3	1	175099574

Comtech, Inc., Fayetteville, NC - 28314,	8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:39 2025 Page 1
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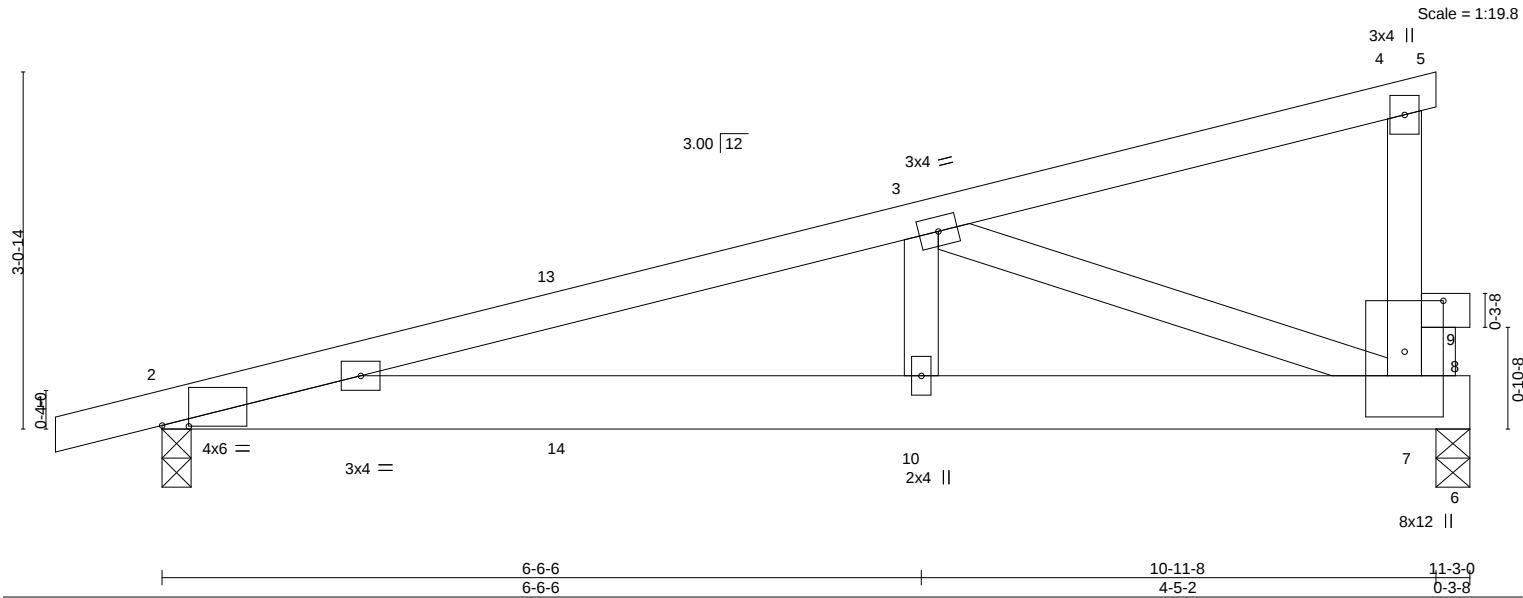


Plate Offsets (X,Y)--		[2:0-2-12,0-0-1], [7:0-5-4,0-4-0]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.15		TC 0.29		Vert(LL) -0.03	10-12	>999	360	MT20	244/190
TCDL 10.0		Lumber DOL 1.15		BC 0.33		Vert(CT) -0.07	10-12	>999	240		
BCLL 0.0 *		Rep Stress Incr NO		WB 0.28		Horz(CT) -0.01	7	n/a	n/a		
BCDL 10.0		Code IRC2021/TPI2014		Matrix-AS		Wind(LL) 0.08	10-12	>999	240	Weight: 57 lb	FT = 20%

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

REACTIONS. (size) 2=0-3-0, 7=0-3-8
Max Horz 2=101(LC 8)
Max Uplift 2=-196(LC 8), 7=-277(LC 8)
Max Grav 2=498(LC 1), 7=738(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-876/1155, 7-9=-414/518
BOT CHORD 2-10=-1216/828, 7-10=-1216/828
WEBS 3-10=-447/258, 3-7=-832/1228

- NOTES-
- 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) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 10-11-8 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=196, 7=277.
 - 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.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 4-5=-20, 2-6=-20, 8-9=-20
Concentrated Loads (lb)
Vert: 9=-300



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TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - A	M03	Monopitch	6	1	

I75099575

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:40 2025 Page 1
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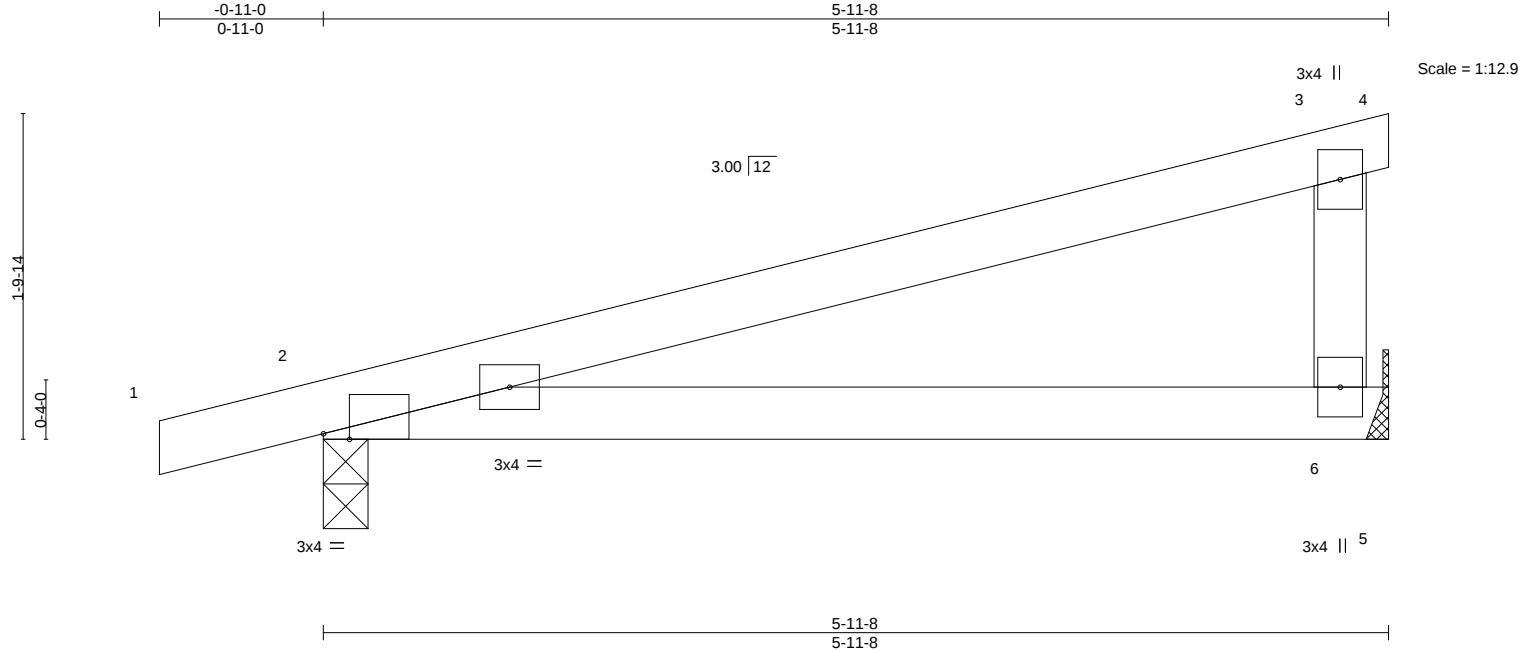


Plate Offsets (X,Y)--		[2:0-1-12,Edge]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.04 6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.09 6-9	>764	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00 2	n/a	n/a		
BCDL	10.0	Code IRC2021/TPI2014		Matrix-AS		Wind(LL)	0.16 6-9	>428	240	Weight: 21 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	

REACTIONS. (size) 6=Mechanical, 2=0-3-0
Max Horz 2=59(LC 8)
Max Uplift 6=-92(LC 8), 2=-117(LC 8)
Max Grav 6=234(LC 1), 2=287(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) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 5-11-8 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) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=117.
 - 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.



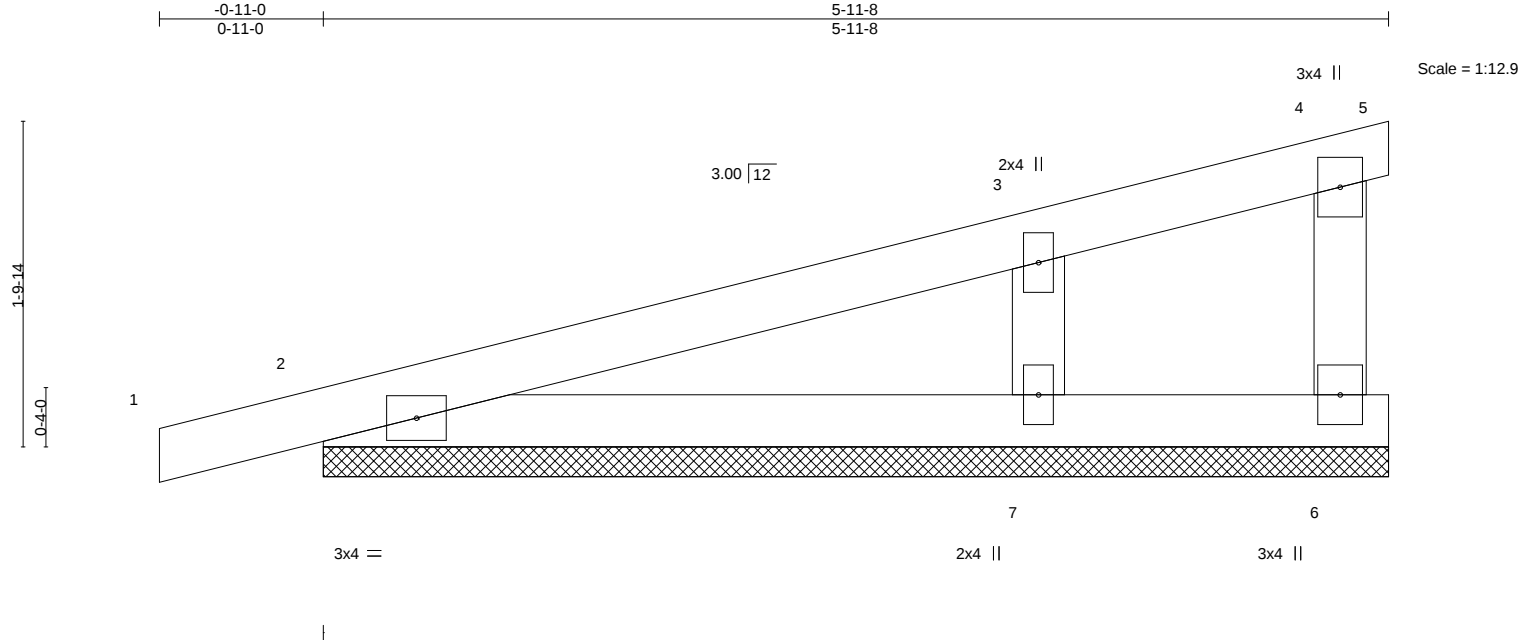
July 23,2025

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TRENCO
A MiTek Affiliate
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek	175099576
251033 - A	M04GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:40 2025 Page 1
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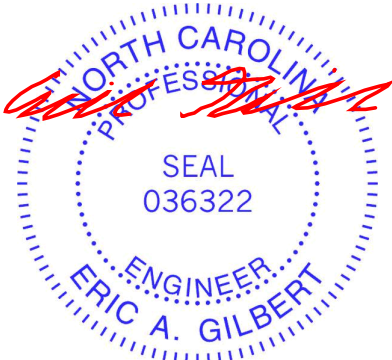
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	-0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P						Weight: 22 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-11-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
OTHERS 2x4 SP No.2	

REACTIONS.	All bearings 5-11-8.
(lb) - Max Horz 2=83(LC 8)	
Max Uplift All uplift 100 lb or less at joint(s) 5, 6, 2 except 7=105(LC 12)	
Max Grav All reactions 250 lb or less at joint(s) 5, 6, 2 except 7=324(LC 1)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-7=241/304	

- NOTES-**
- 1) 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) gable end zone and C-C Exterior(2E) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 5-11-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Gable studs spaced at 2-0-0 oc.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6, 2 except (jt=lb) 7=105.



July 23,2025

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - A	M05GE	GABLE	1	1	175099577
Job Reference (optional)					

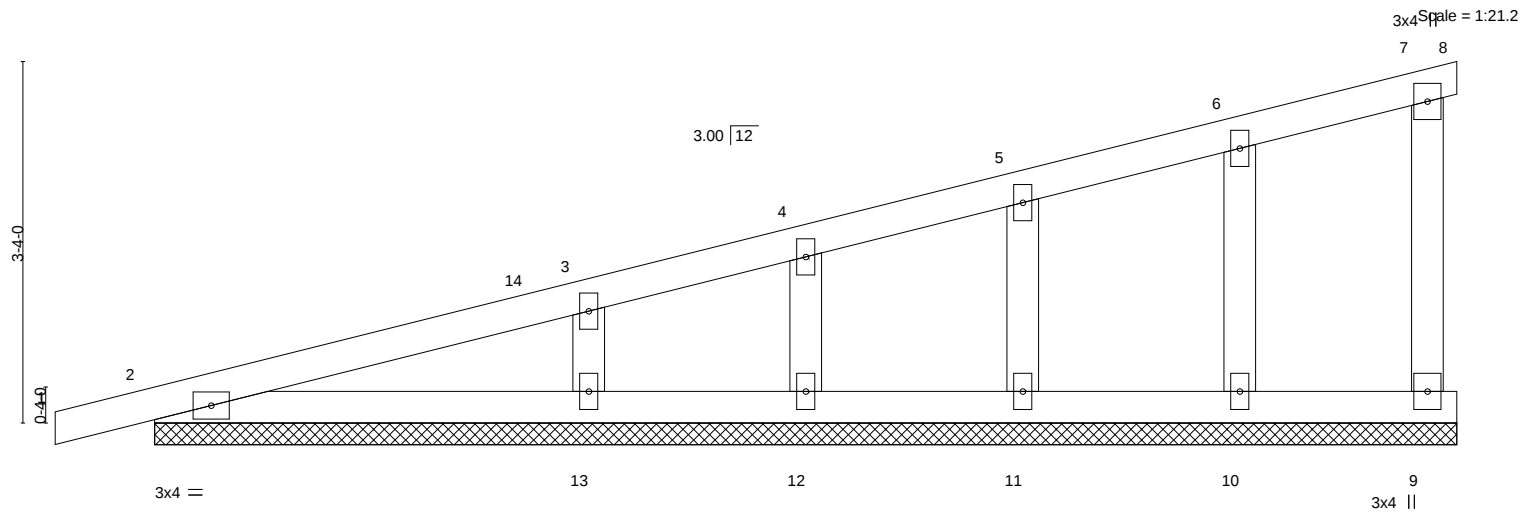
Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:40 2025 Page 1

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-0-11-0
0-11-0

12-0-0
12-0-0



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 0.12	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	-0.00	8	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						Weight: 51 lb	FT = 20%

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

REACTIONS. All bearings 12-0-0.
(lb) - Max Horz 2=154(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 8, 9, 2, 10, 11, 12, 13
Max Grav All reactions 250 lb or less at joint(s) 8, 9, 2, 10, 11, 12 except 13=314(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) gable end zone and C-C Exterior(2E) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 12-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) Gable 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) 8, 9, 2, 10, 11, 12, 13.

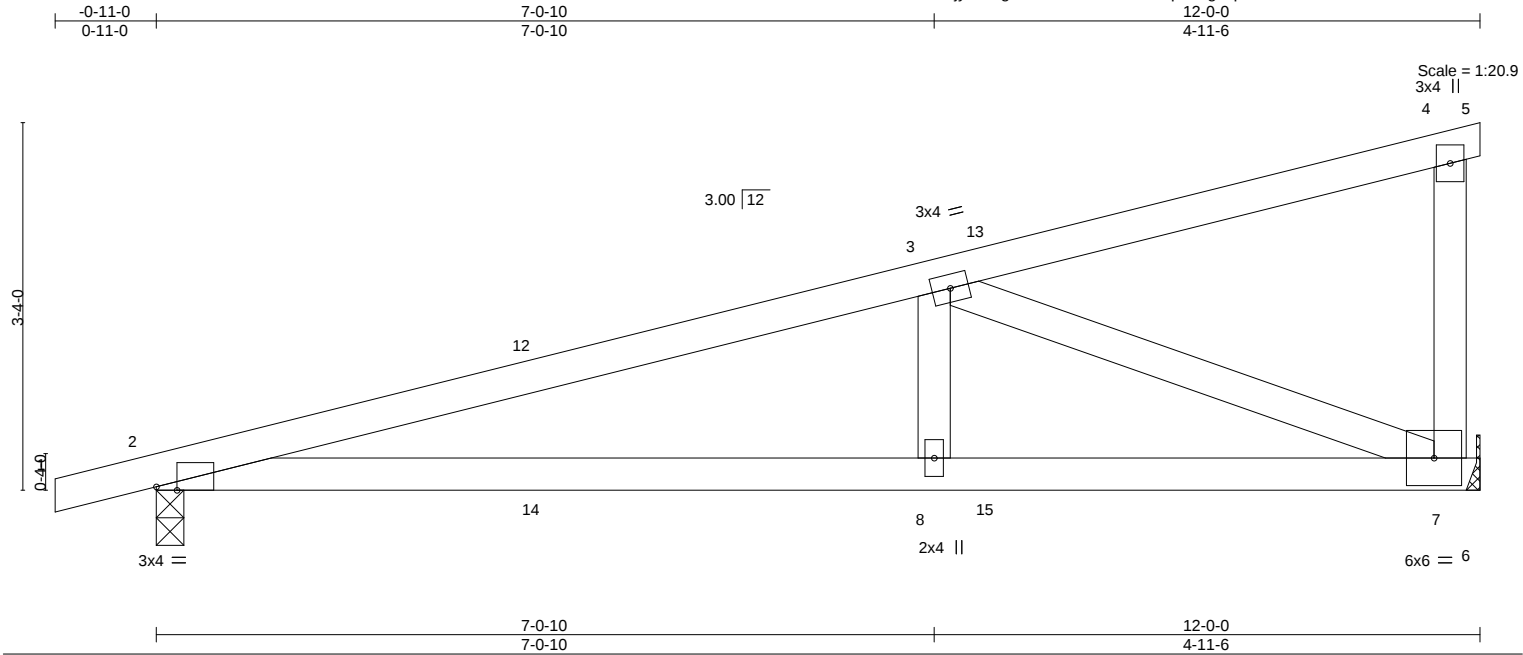


July 23,2025

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - A	M06	Monopitch	8	1	175099578

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8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:41 2025 Page 1
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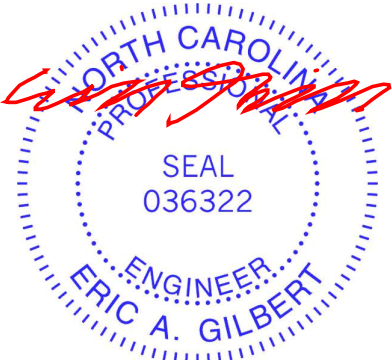
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	0.19 8-11 >723 240	MT20		244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.14 8-11 >989 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	-0.02 7 n/a n/a				
BCDL	10.0	Code IRC2021/TPI2014		Matrix-AS							
								Weight: 51 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.2		

REACTIONS. (size) 2=0-3-0, 7=Mechanical
Max Horz 2=108(LC 8)
Max Uplift 2=-203(LC 8), 7=-193(LC 8)
Max Grav 2=526(LC 1), 7=478(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-953/1153
BOT CHORD 2-8=-1236/901, 7-8=-1236/901
WEBS 3-8=-430/266, 3-7=-948/1291

- 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) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 12-0-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=203, 7=193.
 - 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.



July 23,2025

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - A	M07GE	MONOPITCH	1	1	175099579

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:41 2025 Page 1

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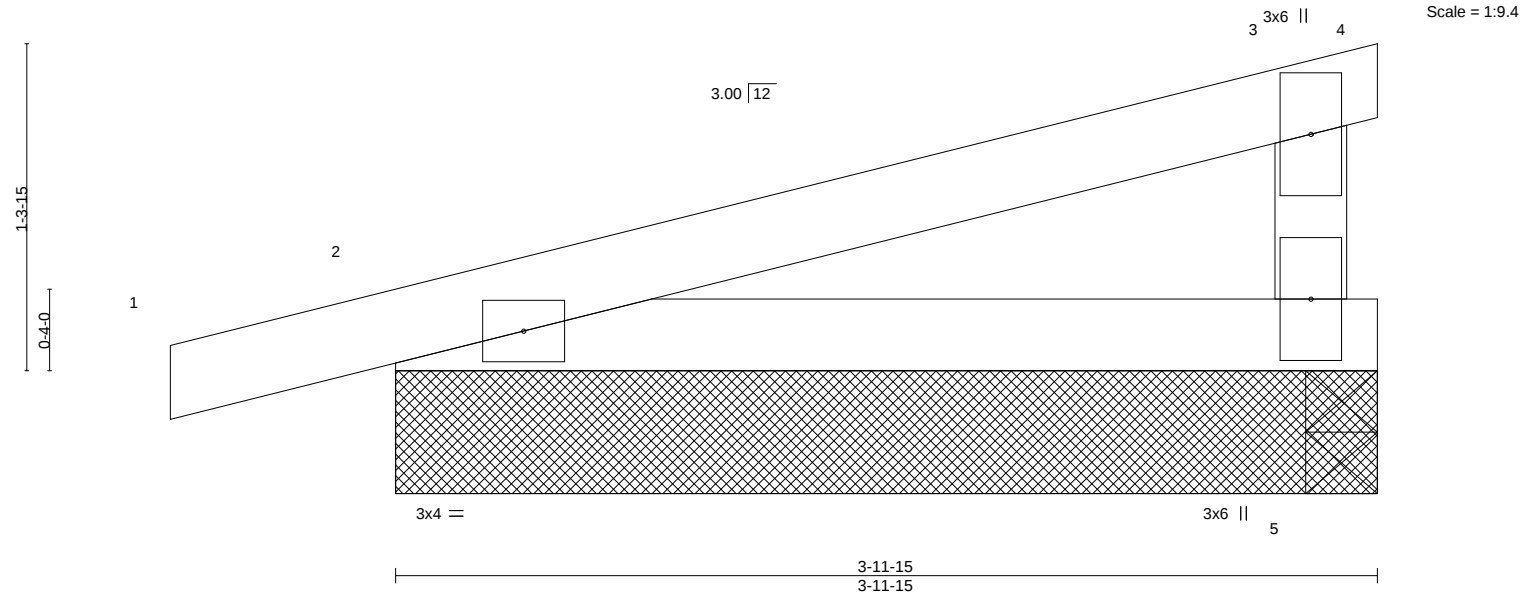
Job Reference (optional)

0-11-0

0-11-0

3-11-15

3-11-15



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.12	Vert(LL)	-0.01	2-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	-0.02	2-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 15 lb	FT = 20%

LUMBER-		BRACING-
TOP CHORD 2x4 SP No.1		TOP CHORD Structural wood sheathing directly applied or 3-11-15 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1		BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2		

REACTIONS. All bearings 3-11-15.

(lb) - Max Horz 2=61(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 2 except 4=-272(LC 1), 5=-246(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 4, 2 except 5=451(LC 1), 5=451(LC 1)

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

TOP CHORD 3-5=-428/525

- NOTES-**
- 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) gable end zone 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 4=272, 5=246.



July 23,2025

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - A	VB1	Valley	1	1	175099580

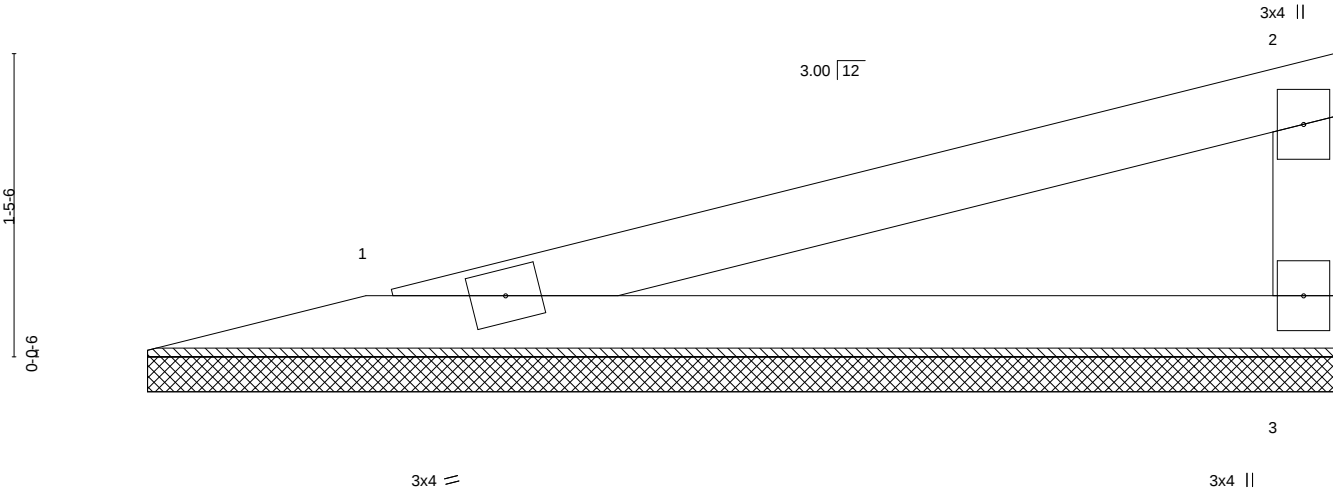
Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:41 2025 Page 1

ID:twY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWCDoi7J4zJC?f

5-9-7
5-9-7

Scale = 1:11.0



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 0.28	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P					Weight: 17 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-9-7 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 1=5-7-15, 3=5-7-15
Max Horz 1=36(LC 8)
Max Uplift 1=-14(LC 8), 3=-23(LC 8)
Max Grav 1=174(LC 1), 3=174(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) Gable requires continuous bottom chord bearing.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



July 23,2025

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 47 Duncan's Creek
251033 - A	VB2	Valley	1	1	175099581

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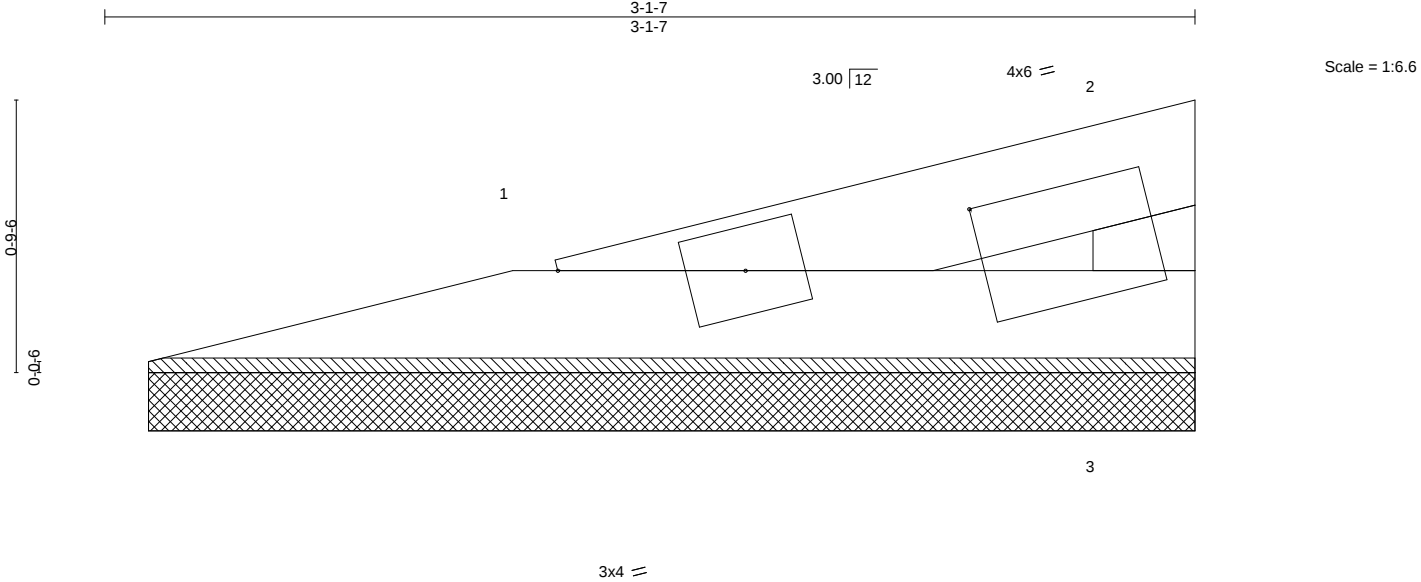


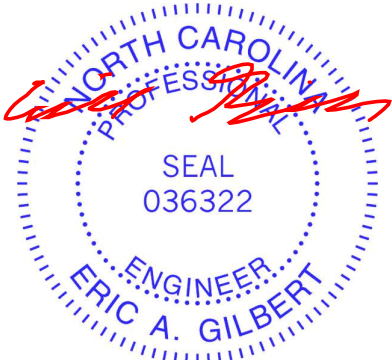
Plate Offsets (X,Y)--		[2:1-2-3,0-1-6]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04
TCDL 10.0	Lumber DOL	1.15	BC 0.02
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	IRC2021/TPI2014	Matrix-P
			DEFL.
			in (loc)
			l/defl
			L/d
			PLATES
			GRIP
			MT20
			244/190
			Weight: 8 lb
			FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-1-7 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS.	(size) 1=2-11-15, 3=2-11-15
	Max Horz 1=15(LC 8)
	Max Uplift 1=-5(LC 8), 3=-9(LC 8)
	Max Grav 1=67(LC 1), 3=67(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) Gable requires continuous bottom chord bearing.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) 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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Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - A	VC1	GABLE	1	1	175099582

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8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:42 2025 Page 1
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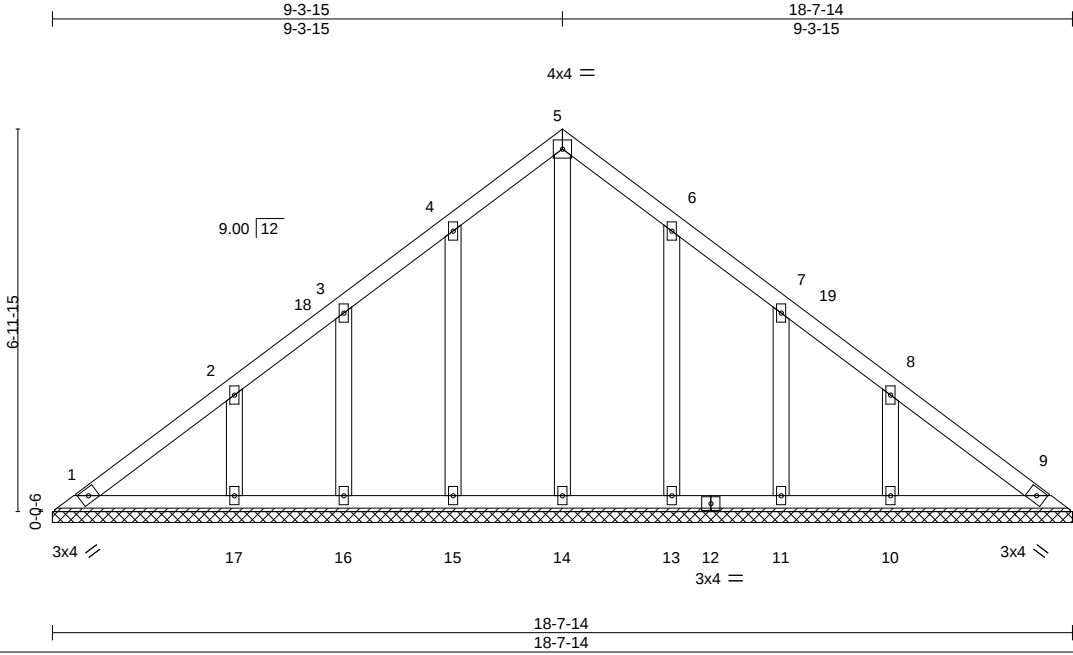


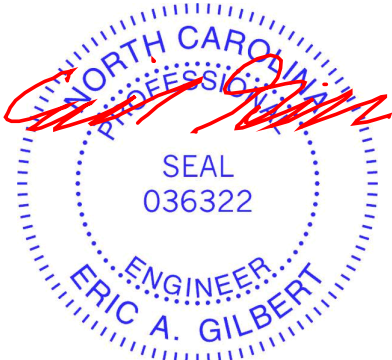
Plate Offsets (X,Y)-- [6:0-0-0,0-0-0], [7:0-0-0,0-0-0], [8:0-0-0,0-0-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	in (loc)	l/defl	L/d	GRIP
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(LL)	n/a	999	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Vert(CT)	n/a	999	
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Horz(CT)	0.00	n/a	
								Weight: 101 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		

REACTIONS.	
All bearings 18-7-14.	
(lb) - Max Horz	1=-200(LC 8)
Max Uplift	All uplift 100 lb or less at joint(s) 1, 16, 11 except 15=-104(LC 12), 17=-146(LC 12), 13=-102(LC 13), 10=-146(LC 13)
Max Grav	All reactions 250 lb or less at joint(s) 1, 9, 14, 15, 16, 13, 11 except 17=268(LC 19), 10=268(LC 20)

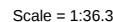
FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	

- 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) gable end zone and C-C Exterior(2E) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 9-3-15, Exterior(2R) 9-3-15 to 13-8-12, Interior(1) 13-8-12 to 18-2-9 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x4 MT20 unless otherwise indicated.
 - 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, 16, 11 except (jt=lb) 15=104, 17=146, 13=102, 10=146.



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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		

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-299/245. 4-6=-298/245

July 23, 2025

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

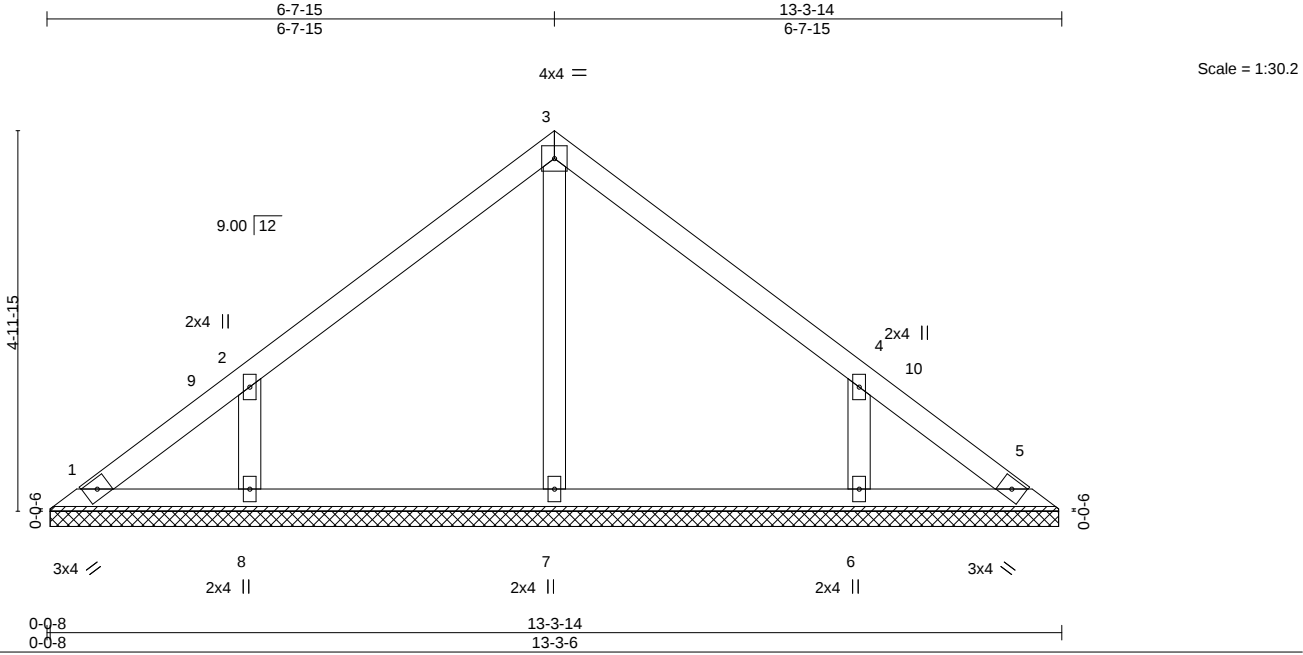
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - A	VC3	Valley	1	1	175099584

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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 0.13	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 0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						Weight: 54 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	

REACTIONS. All bearings 13-2-14.
(lb) - Max Horz 1=-112(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-109(LC 12), 6=-109(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=252(LC 1), 8=329(LC 19), 6=328(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-260/251, 4-6=-260/251

- 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) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 6-7-15, Exterior(2R) 6-7-15 to 11-0-12, Interior(1) 11-0-12 to 12-10-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=109, 6=109.

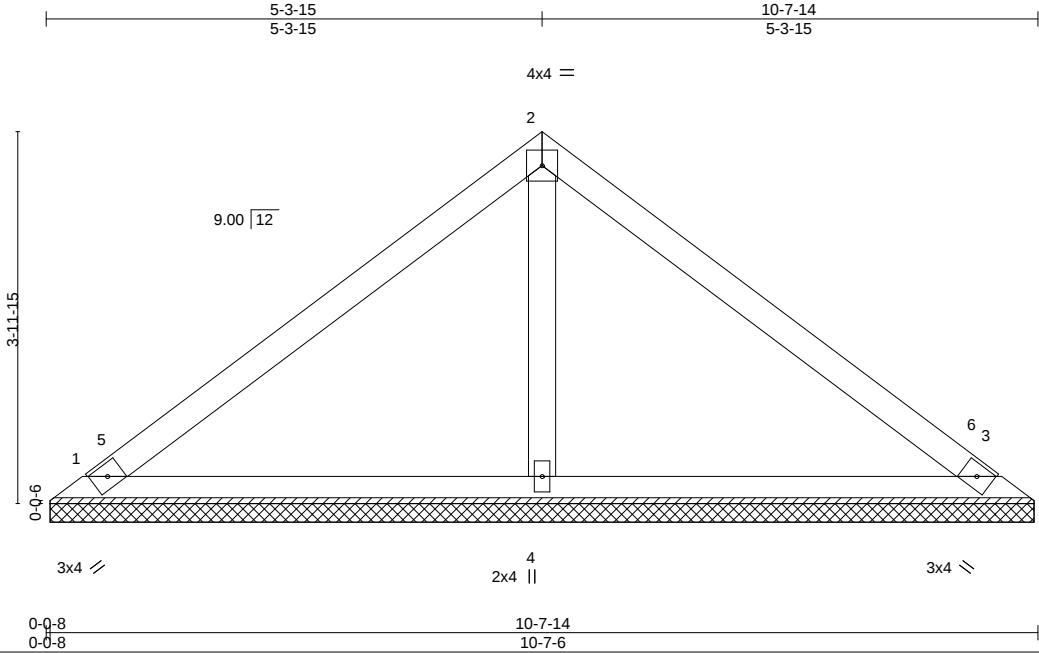


July 23,2025

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - A	VC4	Valley	1	1	175099585

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8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:44 2025 Page 1
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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 0.25	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 0.06	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						Weight: 39 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	

REACTIONS. (size) 1=10-6-14, 3=10-6-14, 4=10-6-14
Max Horz 1=88(LC 9)
Max Uplift 1=-24(LC 12), 3=-32(LC 13)
Max Grav 1=202(LC 1), 3=202(LC 1), 4=379(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) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 5-3-15, Exterior(2R) 5-3-15 to 9-8-12, Interior(1) 9-8-12 to 10-2-9 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.



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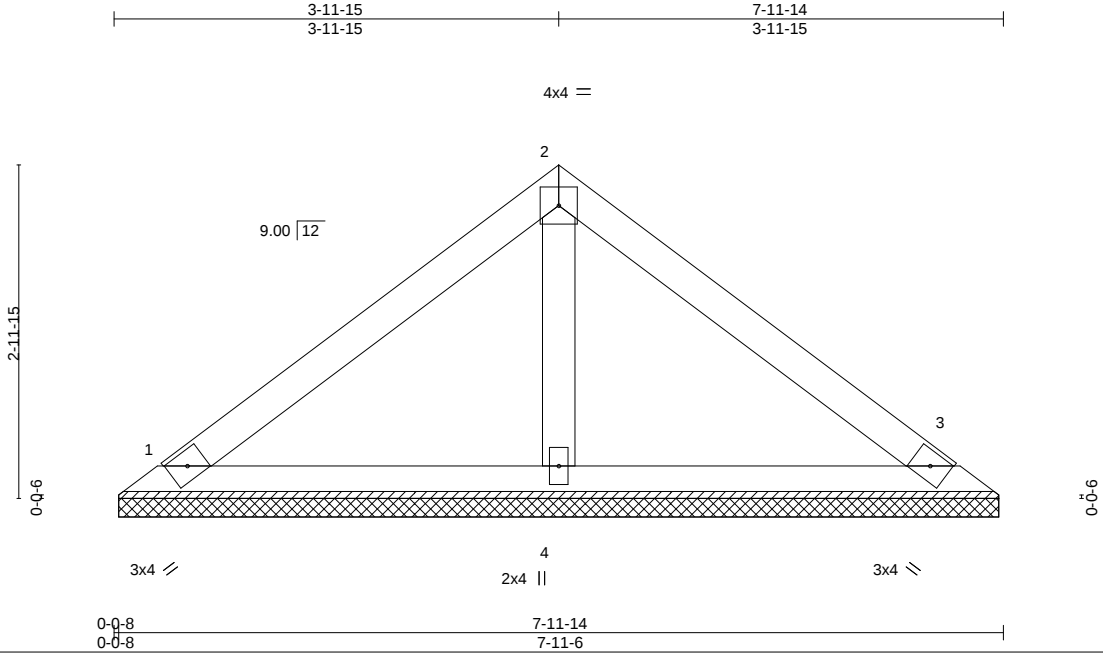
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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TRENCO
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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - A	VC5	Valley	1	1	175099586

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8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:44 2025 Page 1
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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 0.09	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P						Weight: 29 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	

REACTIONS. (size) 1=7-10-14, 3=7-10-14, 4=7-10-14
Max Horz 1=-64(LC 8)
Max Uplift 1=-25(LC 12), 3=-31(LC 13)
Max Grav 1=160(LC 1), 3=160(LC 1), 4=249(LC 1)

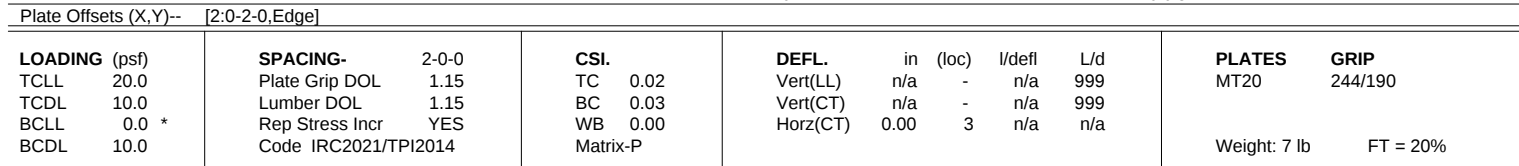
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; 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
 - 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.



July 23,2025

Comtech, Inc. Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:45 2025 Page 1
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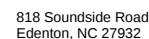
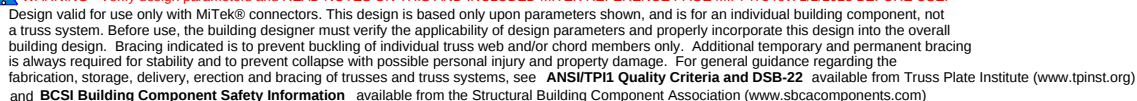
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1

TOP CHORD	Structural wood sheathing directly applied or 2-7-14 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=2-6-14, 3=2-6-14
 Max Horz 1=-16(LC 10)
 Max Uplift 1=-3(LC 12), 3=-3(LC 13)
 Max Grav 1=71(LC 1), 3=71(LC 1)

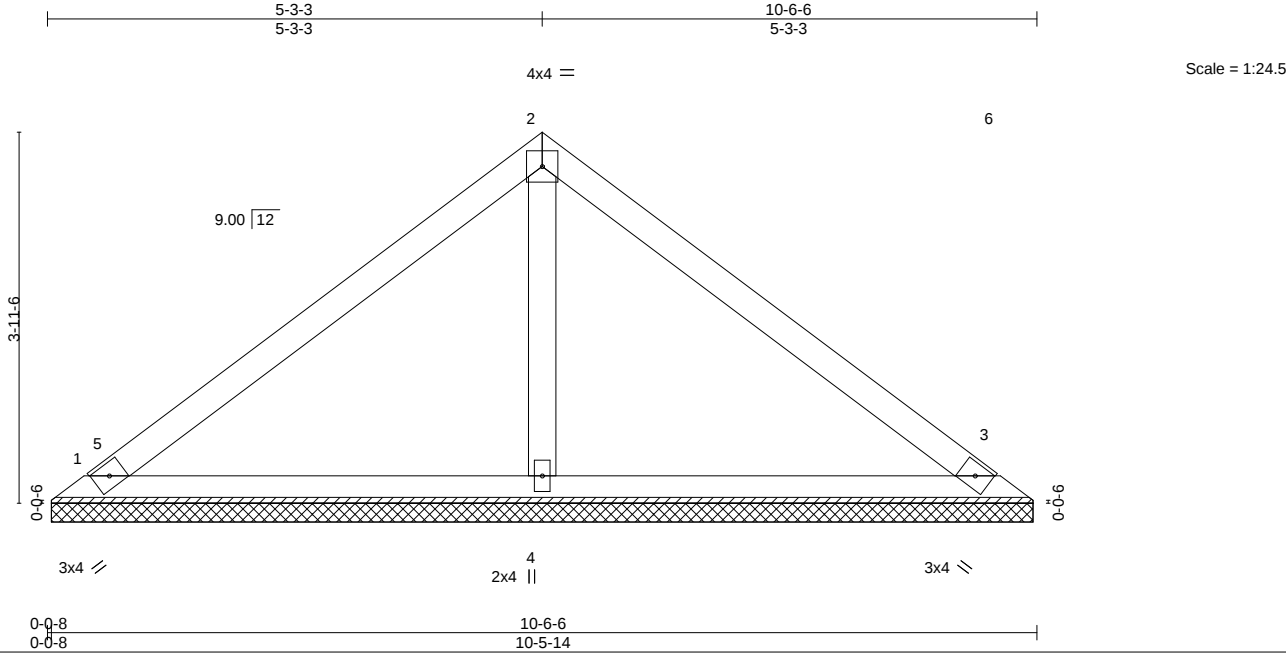
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; 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.



Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - A	VD1	Valley	1	1	175099589

Comtech, Inc., Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:45 2025 Page 1
ID:twY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWwCDoi7J4zJC?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 0.24	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 0.06	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-S						Weight: 38 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	

REACTIONS. (size) 1=10-5-6, 3=10-5-6, 4=10-5-6
Max Horz 1=87(LC 9)
Max Uplift 1=-23(LC 12), 3=-32(LC 13)
Max Grav 1=199(LC 1), 3=199(LC 1), 4=374(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) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 5-3-3, Exterior(2R) 5-3-3 to 9-8-0, Interior(1) 9-8-0 to 10-1-1 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.



July 23, 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

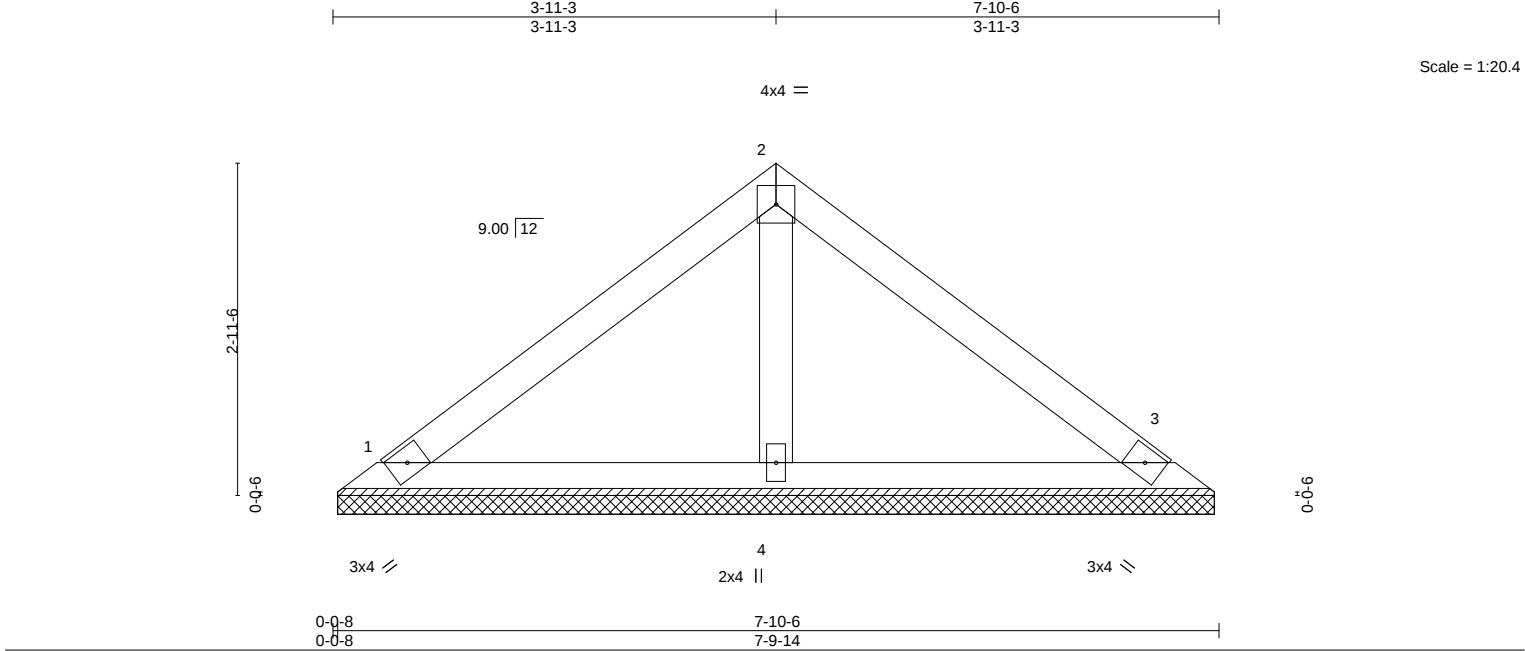
Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - A	VD2	Valley	1	1	175099590

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:46 2025 Page 1

ID:twY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcD0i7J4zJC?f

Job Reference (optional)



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.19	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 0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P						Weight: 28 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		

REACTIONS. (size) 1=7-9-6, 3=7-9-6, 4=7-9-6
Max Horz 1=-63(LC 10)
Max Uplift 1=-24(LC 12), 3=-30(LC 13)
Max Grav 1=157(LC 1), 3=157(LC 1), 4=245(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.

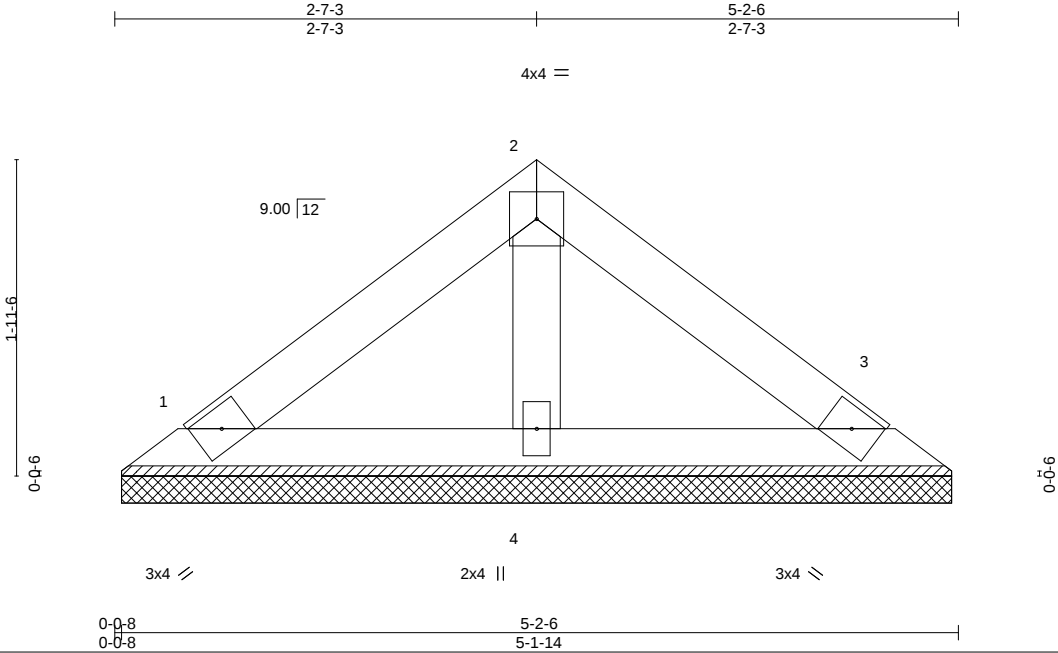


July 23,2025

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - A	VD3	Valley	1	1	175099591

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:46 2025 Page 1
ID:twY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcD0i7J4zJC?f



Scale = 1:14.2

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 0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2021/TPI2014		Matrix-P						Weight: 18 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=5-1-6, 3=5-1-6, 4=5-1-6
Max Horz 1=-39(LC 8)
Max Uplift 1=-15(LC 12), 3=-19(LC 13)
Max Grav 1=97(LC 1), 3=97(LC 1), 4=151(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.



July 23,2025

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 47 Duncan's Creek
251033 - A	VD4	Valley	1	1	175099592

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:47 2025 Page 1

ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcD0i7J4zJC?f

Job Reference (optional)

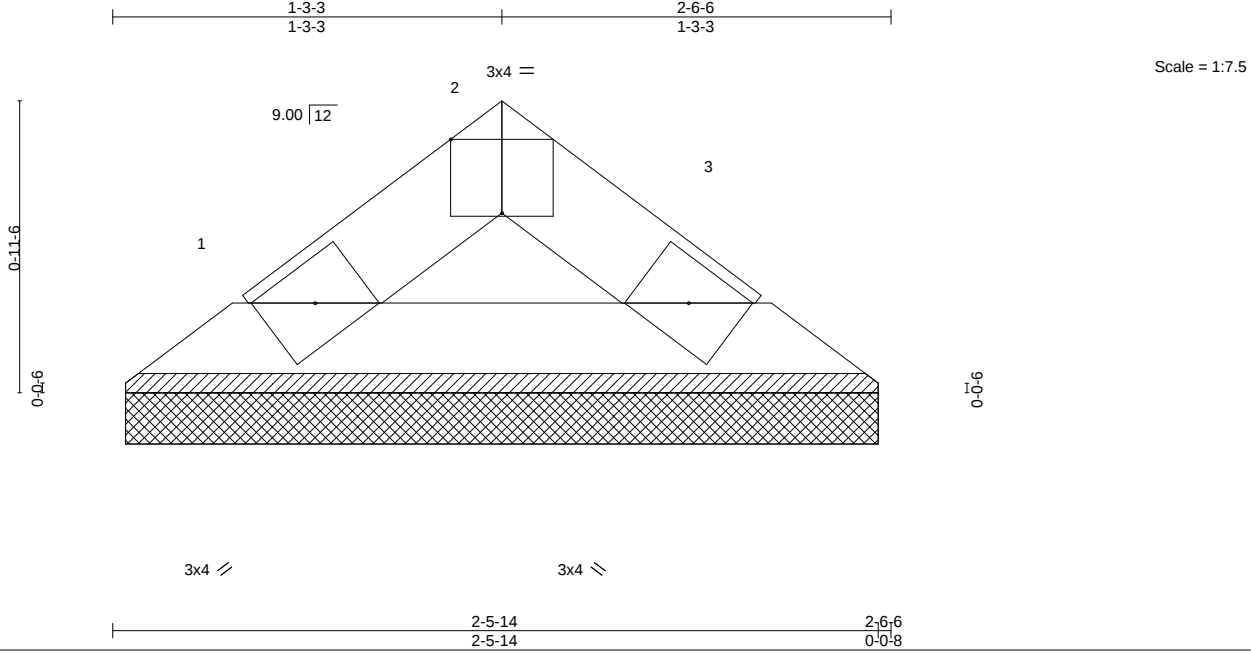


Plate Offsets (X,Y)--		[2:0-2:0,Edge]	
LOADING (psf)		SPACING-	2-0-0
TCLL	20.0	Plate Grip DOL	1.15
TCDL	10.0	Lumber DOL	1.15
BCLL	0.0 *	Rep Stress Incr	YES
BCDL	10.0	Code	IRC2021/TPI2014
		CSI.	
		TC	0.02
		BC	0.02
		WB	0.00
		Matrix-P	
		DEFL.	
		in (loc)	l/defl
		Vert(LL)	n/a - n/a 999
		Vert(CT)	n/a - n/a 999
		Horz(CT)	0.00 3 n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 7 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 2-6-6 oc purlins.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=2-5-6, 3=2-5-6
Max Horz 1=15(LC 9)
Max Uplift 1=-3(LC 12), 3=-3(LC 13)
Max Grav 1=66(LC 1), 3=66(LC 1)

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

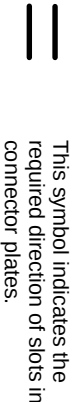
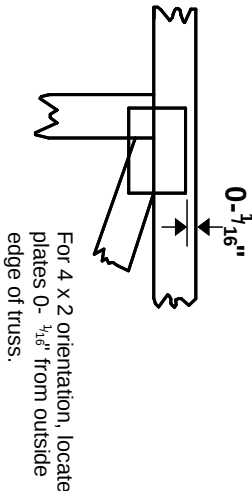
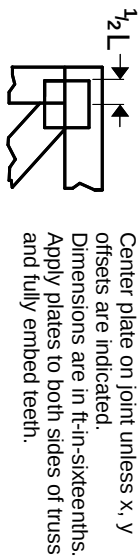
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber 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.



July 23,2025

Symbols

PLATE LOCATION AND ORIENTATION



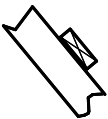
* Plate location details available in MITek software or upon request.

PLATE SIZE

4 X 4

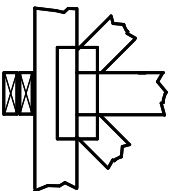
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

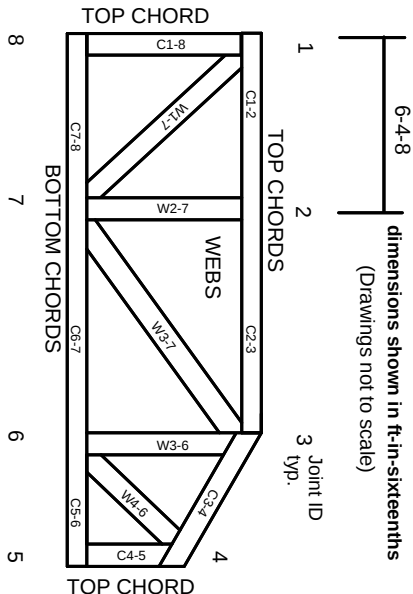
BEARING



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/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: 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 1 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
A MITek Affiliate

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

RE: 251033 - B
Lot 47 Duncan's Creek

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: New Home Inc. Project Name: 251033 - B
Lot/Block: 47 Model:
Address: Subdivision: Duncan's Creek
City: State:

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

Design Code: IRC2021/TPI2014 Design Program: MiTek 20/20 8.6
Wind Code: N/A Wind Speed: N/A mph
Roof Load: N/A psf Floor Load: 55.0 psf

This package includes 19 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	I75099820	F01	7/23/2025
2	I75099821	F02	7/23/2025
3	I75099822	F03	7/23/2025
4	I75099823	F04	7/23/2025
5	I75099824	F05	7/23/2025
6	I75099825	F06-GR	7/23/2025
7	I75099826	F07	7/23/2025
8	I75099827	F08	7/23/2025
9	I75099828	F09	7/23/2025
10	I75099829	F10	7/23/2025
11	I75099830	F11-GR	7/23/2025
12	I75099831	F12	7/23/2025
13	I75099832	F13-GR	7/23/2025
14	I75099833	F14	7/23/2025
15	I75099834	F15	7/23/2025
16	I75099835	FKW1	7/23/2025
17	I75099836	FKW2	7/23/2025
18	I75099837	FKW3	7/23/2025
19	I75099838	FKW4	7/23/2025

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

Truss Design Engineer's Name: Gilbert, Eric

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

North Carolina COA: C-0844

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

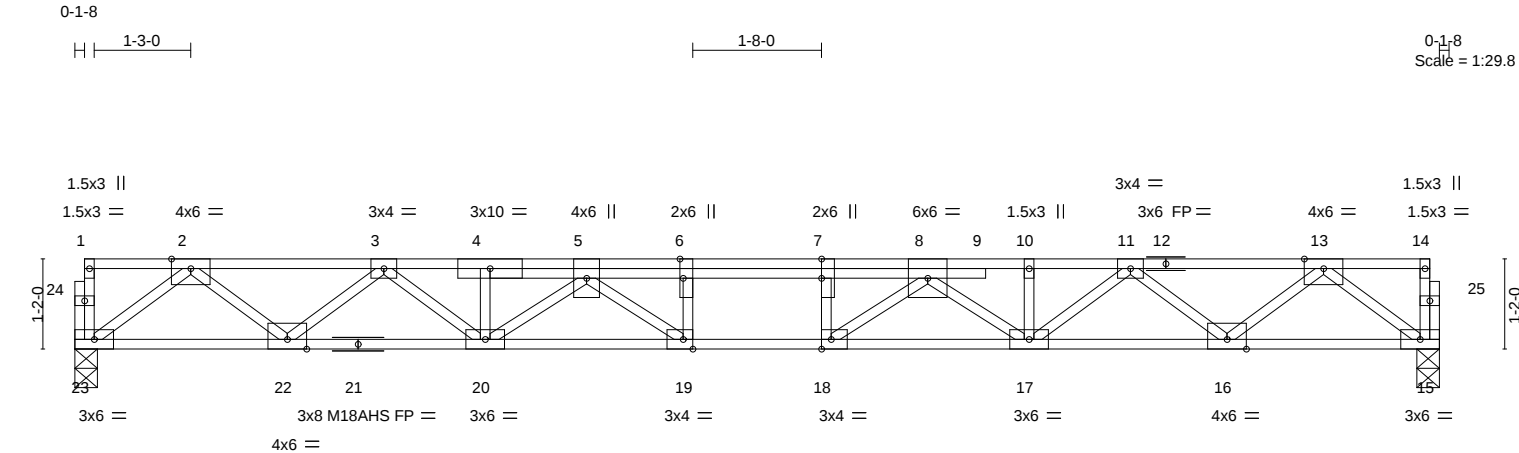


July 23, 2025

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - B	F01	FLOOR	4	1	175099820

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:35 2025 Page 1
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		2-9-0				14-11-0				17-8-0		
		2-9-0				12-2-0				2-9-0		
Plate Offsets (X,Y)--				[6:0-3-0,Edge], [7:0-3-0,0-0-0], [18:0-1-8,Edge], [19:0-1-8,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	0.28	Vert(LL)	-0.24	18-19	>857	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.33	18-19	>624	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.07	15	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-S							Weight: 99 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) 23=0-3-8, 15=0-3-8
Max Grav 23=952(LC 1), 15=952(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2012/0, 3-4=-3343/0, 4-5=-3348/0, 5-6=-4200/0, 6-7=-4200/0, 7-8=-4200/0, 8-10=-3334/0, 10-11=-3331/0, 11-13=-2013/0
BOT CHORD 22-23=0/1195, 20-22=0/2796, 19-20=0/3916, 18-19=0/4200, 17-18=0/3884, 16-17=0/2798, 15-16=0/1194
WEBS 13-15=-1496/0, 2-23=-1496/0, 13-16=0/1066, 2-22=0/1064, 11-16=-1022/0, 3-22=-1021/0, 11-17=0/681, 3-20=0/699, 8-17=-689/0, 5-20=-714/0, 8-18=-38/695, 5-19=-71/673, 6-19=-355/38, 7-18=-369/17

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

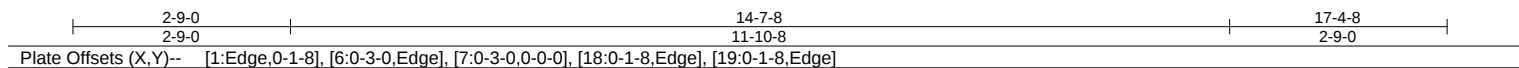


July 23,2025

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

Comtech, Inc. Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:35 2025 Page 1
ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



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)		

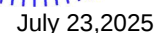
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1972/0, 3-4=-3264/0, 4-5=-3268/0, 5-6=-4069/0, 6-7=-4069/0, 7-8=-4069/0,
8-10=-3255/0, 10-11=-3252/0, 11-13=-1973/0

BOT CHORD 22-23=0/1175, 20-22=0/2737, 19-20=0/3812, 18-19=0/4069, 17-18=0/3781, 16-17=0/2739,
15-16=0/1173

WEBS 13-15=-1469/0, 2-23=-1474/0, 13-16=0/1041, 2-22=0/1038, 11-16=-997/0, 3-22=-995/0,
11-17=0/656, 3-20=0/673, 8-17=-660/0, 5-20=-684/0, 8-18=-52/637, 5-19=-84/615,
6-19=-323/45, 7-18=-336/25

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates 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.



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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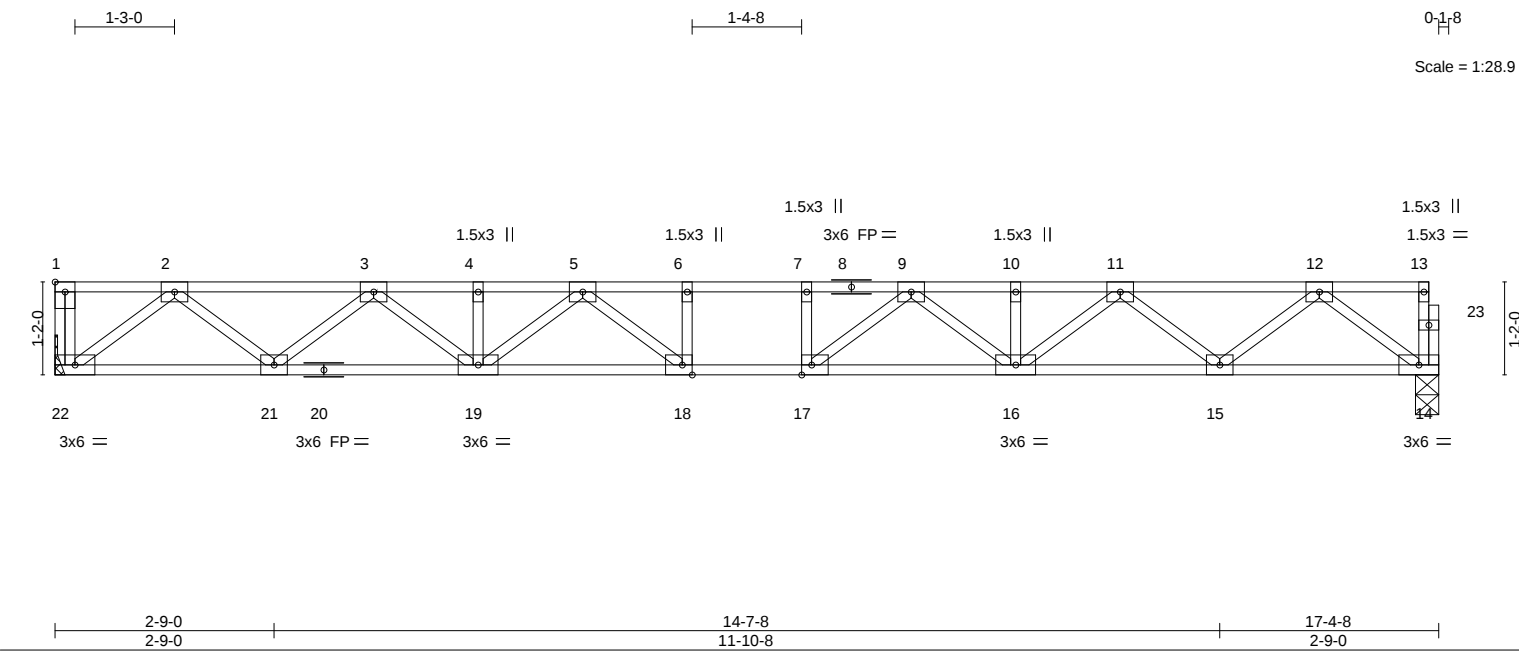
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - B	F03	FLOOR	6	1	175099822

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:36 2025 Page 1
ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcD0i7J4zJC?f

Job Reference (optional)



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.20 17-18 >999 480	MT20		244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.28 17-18 >737 360				
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.05 14 n/a n/a				
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							
								Weight: 90 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) 22=Mechanical, 14=0-3-8
Max Grav 22=753(LC 1), 14=748(LC 1)

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

TOP CHORD 2-3=-1577/0, 3-4=-2610/0, 4-5=-2610/0, 5-6=-3071/0, 6-7=-3071/0, 7-9=-3071/0, 9-10=-2610/0, 10-11=-2610/0, 11-12=-1577/0

BOT CHORD 21-22=0/939, 19-21=0/2188, 18-19=0/2910, 17-18=0/3071, 16-17=0/2910, 15-16=0/2188, 14-15=0/939

WEBS 12-14=-1175/0, 2-22=-1178/0, 12-15=0/830, 2-21=0/830, 11-15=-795/0, 3-21=-795/0, 11-16=0/539, 3-19=0/539, 9-16=-383/0, 5-19=-383/0, 9-17=-83/439, 5-18=-83/439

- 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.

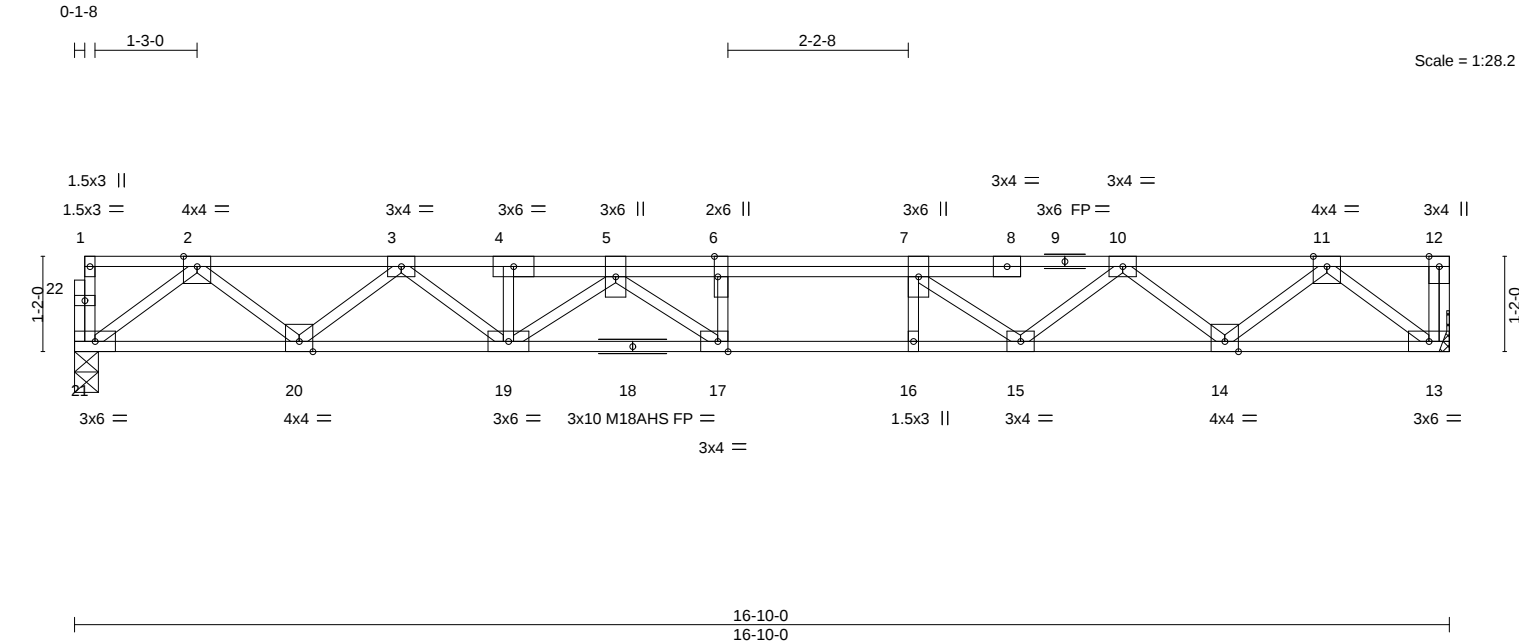


July 23,2025

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - B	F04	FLOOR	5	1	175099823

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:36 2025 Page 1
ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.22 17 >896 480	MT20	244/190		
TCDL	10.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.31 17-19 >649 360	M18AHS	186/179		
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.06 13 n/a n/a				
BCDL	5.0	Code IRC2021/TPI2014		Matrix-S							
								Weight: 93 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) 21=0-3-8, 13=Mechanical
Max Grav 21=906(LC 1), 13=912(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1896/0, 3-4=-3119/0, 4-5=-3124/0, 5-6=-3730/0, 6-7=-3730/0, 7-10=-3141/0, 10-11=-1892/0
BOT CHORD 20-21=0/1134, 19-20=0/2628, 17-19=0/3629, 16-17=0/3730, 15-16=0/3730, 14-15=0/2605, 13-14=0/1142
WEBS 11-13=-1433/0, 11-14=0/976, 10-14=-928/0, 10-15=0/721, 7-15=-825/0, 2-21=-1420/0, 2-20=0/992, 3-20=-953/0, 3-19=0/626, 5-19=-636/0, 5-17=-236/559, 6-17=-291/109

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates 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.

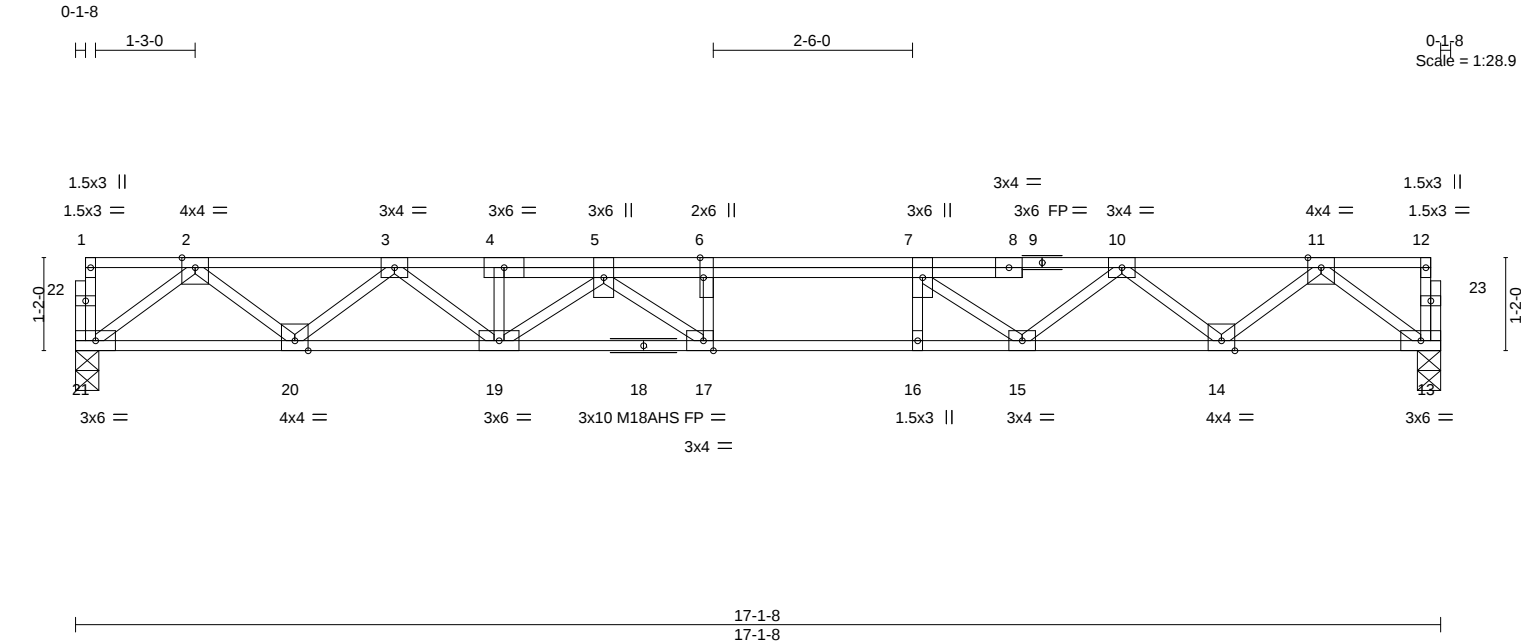


July 23,2025

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - B	F05	FLOOR	3	1	175099824
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:37 2025 Page 1
ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcD0i7J4zJC?f



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.51	Vert(LL)	-0.24 17 >842 480	MT20	244/190		
TCDL	10.0	Lumber DOL	1.00	BC	0.79	Vert(CT)	-0.33 17-19 >610 360	M18AHS	186/179		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.06 13 n/a n/a				
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							
								Weight: 94 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) 21=0-3-8, 13=0-3-8
Max Grav 21=922(LC 1), 13=922(LC 1)

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

TOP CHORD 2-3=-1936/0, 3-4=-3199/0, 4-5=-3204/0, 5-6=-3855/0, 6-7=-3855/0, 7-10=-3227/0, 10-11=-1931/0

BOT CHORD 20-21=0/1155, 19-20=0/2688, 17-19=0/3733, 16-17=0/3855, 15-16=0/3855, 14-15=0/2661, 13-14=0/1164

WEBS 2-21=-1446/0, 2-20=0/1017, 3-20=-979/0, 3-19=0/652, 5-19=-666/0, 5-17=-225/606, 6-17=-318/102, 11-13=-1458/0, 11-14=0/999, 10-14=-950/0, 10-15=0/765, 7-15=-881/0

NOTES-

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

2) All plates are MT20 plates unless otherwise indicated.

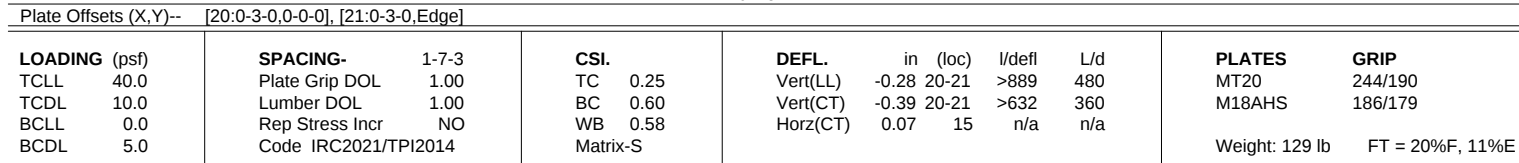
3) Plates checked for a plus or minus 1 degree rotation about its center.

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



July 23,2025

Comtech, Inc. Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:37 2025 Page 1
ID:ttwY35f4XG0RA80jv64tSgzKsVE-RfC?PsB70Hg3NSgPqnL8w3lTXbGKWrCd0i7J4zJC?f



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.

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

TOP CHORD 2-3=-2205/0, 3-4=-4065/0, 4-5=-4079/0, 5-6=-5397/0, 6-7=-5625/0, 7-8=-5079/0,
8-10=-3700/0, 10-12=-3695/0, 12-13=-2169/0

BOT CHORD 25-26=0/1267, 23-25=0/3179, 22-23=0/5062, 21-22=0/5625, 20-21=0/5625, 19-20=0/5625,
17-19=0/4579, 16-17=0/3042, 15-16=0/1254

WEBS 2-26=1588/0, 2-25=0/1220, 3-25=-1268/0, 3-23=0/1087, 13-15=-1572/0, 13-16=0/1191,
12-16=-1135/0, 12-17=0/834, 8-17=-1103/0, 8-19=0/668, 7-19=-799/0, 5-23=-1227/0,
5-22=0/508, 6-22=-512/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x6 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 171 lb down at 6'-9"-12, 54 lb down at 8'-4"-8, 14 lb down at 10'-4"-8, 57 lb down at 12'-4"-8, 58 lb down at 14'-4"-8, and 58 lb down at 16'-4"-8, and 58 lb down at 18'-4"-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 1-14=-80, 15-26=-8
 Concentrated Loads (lb)
 Vert: 5=-126(F) 11=-14(F) 29=-14(F) 30=-14(F) 31=-14(F) 32=-14(F) 33=-14(F)



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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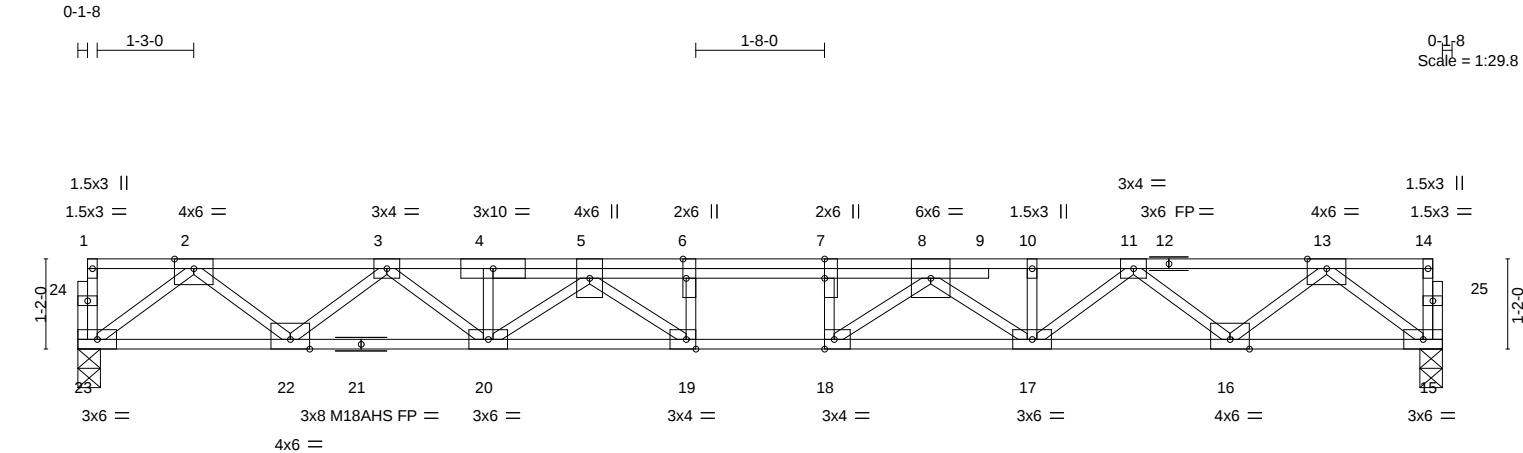


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - B	F09	FLOOR	4	1	175099828
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:38 2025 Page 1
ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



		2-9-0				14-11-0				17-8-0	
		2-9-0				12-2-0				2-9-0	
Plate Offsets (X,Y)-- [6:0-3-0,Edge], [7:0-3-0,0-0-0], [18:0-1-8,Edge], [19:0-1-8,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 0.28		Vert(LL) -0.24 18-19 >857 480		MT20		244/190	
TCDL	10.0	Lumber DOL 1.00		BC 0.77		Vert(CT) -0.33 18-19 >624 360		M18AHS		186/179	
BCLL	0.0	Rep Stress Incr YES		WB 0.51		Horz(CT) 0.07 15 n/a n/a					
BCDL	5.0	Code IRC2021/TPI2014		Matrix-S				Weight: 99 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) 23=0-3-8, 15=0-3-8
Max Grav 23=952(LC 1), 15=952(LC 1)

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

TOP CHORD 2-3=-2012/0, 3-4=-3343/0, 4-5=-3348/0, 5-6=-4200/0, 6-7=-4200/0, 7-8=-4200/0, 8-10=-3334/0, 10-11=-3331/0, 11-13=-2013/0

BOT CHORD 22-23=0/1195, 20-22=0/2796, 19-20=0/3916, 18-19=0/4200, 17-18=0/3884, 16-17=0/2798, 15-16=0/1194

WEBS 13-15=-1496/0, 2-23=-1496/0, 13-16=0/1066, 2-22=0/1064, 11-16=-1022/0, 3-22=-1021/0, 11-17=0/681, 3-20=0/699, 8-17=-689/0, 5-20=-714/0, 8-18=-38/695, 5-19=-71/673, 6-19=-355/38, 7-18=-369/17

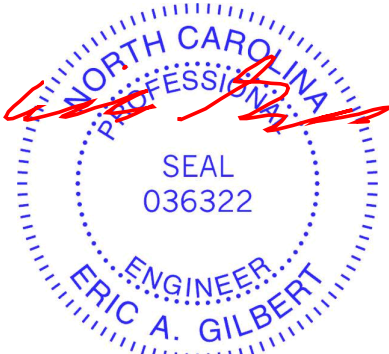
NOTES-

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

2) All plates are MT20 plates unless otherwise indicated.

3) Plates checked for a plus or minus 1 degree rotation about its center.

4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



July 23,2025

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - B	F10	FLOOR	4	1	175099829
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:39 2025 Page 1
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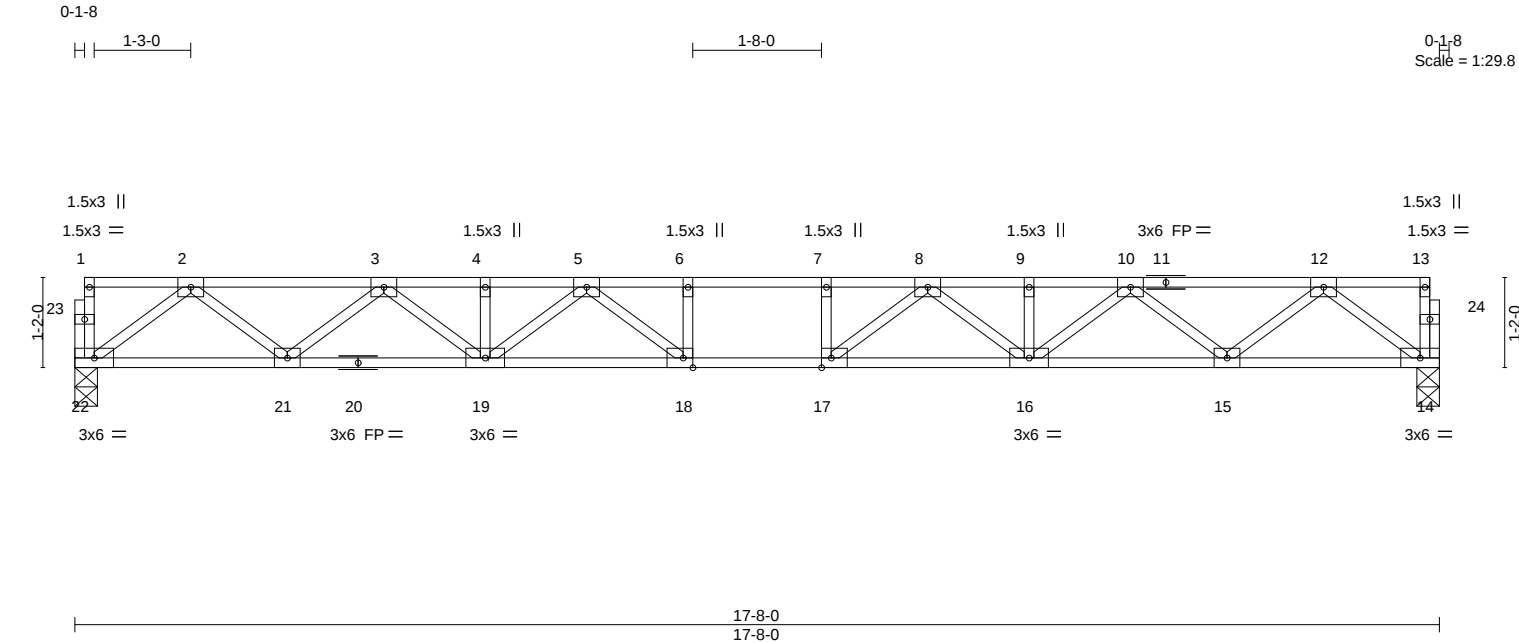
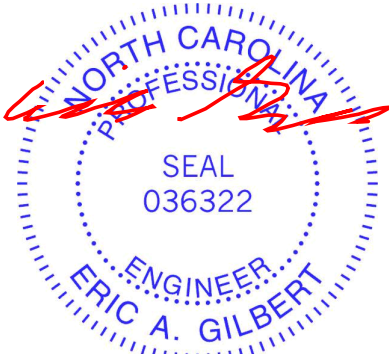


Plate Offsets (X,Y)--		[17:0-1-8,Edge], [18:0-1-8,Edge]	
LOADING (psf)	SPACING-	1-7-3	CSI.
TCLL 40.0	Plate Grip DOL	1.00	TC 0.36
TCDL 10.0	Lumber DOL	1.00	BC 0.61
BCLL 0.0	Rep Stress Incr	YES	WB 0.40
BCDL 5.0	Code	IRC2021/TPI2014	Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.22 17-18	>965	480
Vert(CT)	-0.30 17-18	>702	360
Horz(CT)	0.05 14	n/a	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 90 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) 22=0-3-8, 14=0-3-8	
Max Grav 22=761(LC 1), 14=761(LC 1)	
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 2-3=-1609/0, 3-4=-2673/0, 4-5=-2673/0, 5-6=-3171/0, 6-7=-3171/0, 7-8=-3171/0, 8-9=-2673/0, 9-10=-2673/0, 10-12=-1609/0	
BOT CHORD 21-22=0/955, 19-21=0/2235, 18-19=0/2988, 17-18=0/3171, 16-17=0/2988, 15-16=0/2235, 14-15=0/955	
WEBS 2-22=-1197/0, 2-21=0/850, 3-21=-815/0, 3-19=0/560, 12-14=-1197/0, 12-15=0/850, 10-15=-815/0, 10-16=0/560, 8-16=-402/0, 8-17=-70/482, 5-19=-402/0, 5-18=-70/482	

- 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.



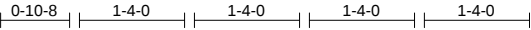
July 23,2025

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - B	F11-GR	Floor Girder	1	1	175099830
Job Reference (optional)					

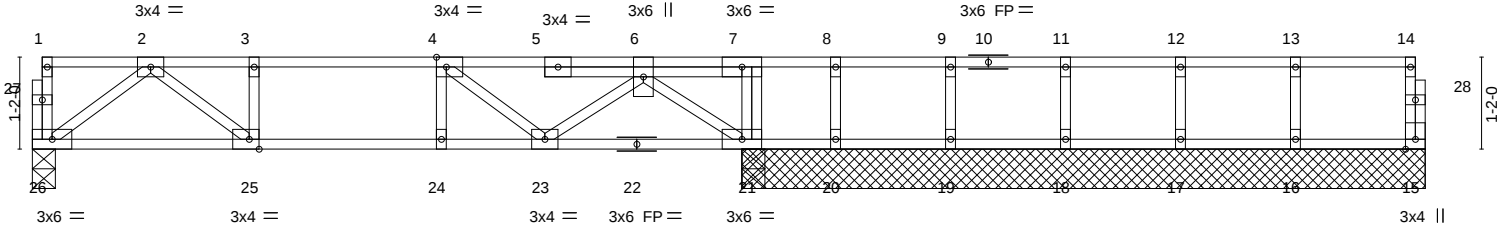
Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:39 2025 Page 1
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0-1-8



0-1-8
Scale = 1:29.2



9-0-0		9-1-8		17-8-0	
9-0-0		0-1-8		8-6-8	
Plate Offsets (X,Y)-- [4:0-1-8,Edge], [25:0-1-8,Edge]					
LOADING (psf)		SPACING- 2-0-0		CSI.	
TCLL 40.0	Plate Grip DOL 1.00	TC 0.52		DEFL. in (loc) l/defl L/d	
TCDL 10.0	Lumber DOL 1.00	BC 0.54		Vert(LL) -0.08 24 >999 480	
BCLL 0.0	Rep Stress Incr NO	WB 0.29		Vert(CT) -0.10 24 >999 360	
BCDL 5.0	Code IRC2021/TPI2014	Matrix-S		Horz(CT) 0.01 15 n/a n/a	
				PLATES GRIP	
				MT20 244/190	
				Weight: 84 lb FT = 20%F, 11%E	

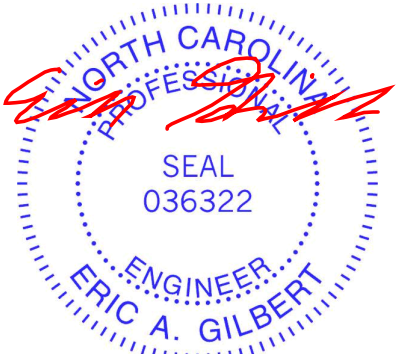
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. All bearings 8-8-0 except (jt=length) 26=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 15, 16, 17, 18, 19, 20 except 26=494(LC 1), 21=1428(LC 1), 21=1428(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1030/0, 3-4=-1030/0, 4-6=-904/0
BOT CHORD 25-26=0/570, 24-25=0/1030, 23-24=0/1030, 21-23=0/691
WEBS 7-21=-1009/0, 2-26=-711/0, 2-25=0/611, 3-25=-286/0, 6-21=-691/0, 6-23=0/282, 4-23=-250/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - All plates are 1.5x3 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.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 883 lb down at 8-9-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-26=-10, 1-14=-100
Concentrated Loads (lb)
Vert: 7=-831(B)



July 23,2025

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Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - B	F12	FLOOR	3	1	175099831

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ID:ttwY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-1-8



Scale: 3/4"=1'

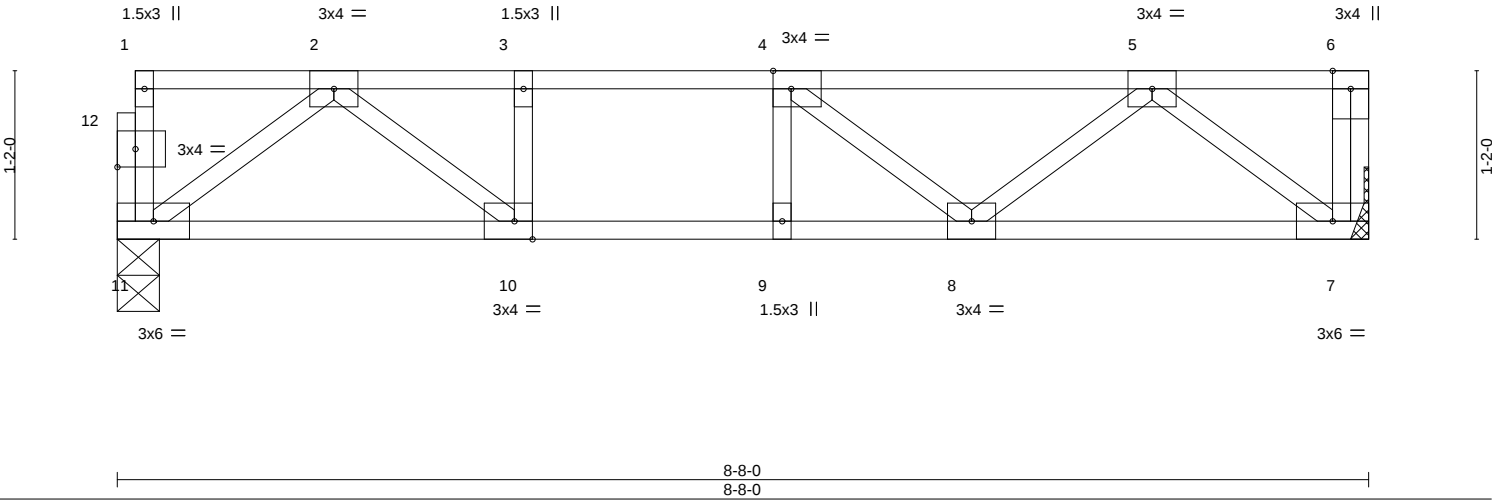


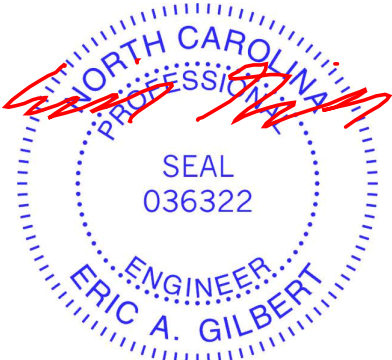
Plate Offsets (X,Y)-- [4:0-1-8,Edge], [10:0-1-8,Edge], [12:0-1-8,0-1-8]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	PLATES
TCLL 40.0	Plate Grip DOL	1.00	TC 0.31	in (loc) l/defl L/d	GRIP
TCDL 10.0	Lumber DOL	1.00	BC 0.42	Vert(LL) -0.05 8-9 >999 480	MT20 244/190
BCLL 0.0	Rep Stress Incr	YES	WB 0.24	Vert(CT) -0.07 8-9 >999 360	
BCDL 5.0	Code IRC2021/TPI2014		Matrix-S	Horz(CT) 0.01 7 n/a n/a	
					Weight: 45 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) 11=0-3-8, 7=Mechanical
Max Grav 11=457(LC 1), 7=463(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-898/0, 3-4=-898/0, 4-5=-766/0
BOT CHORD 10-11=0/524, 9-10=0/898, 8-9=0/898, 7-8=0/561
WEBS 2-11=-653/0, 2-10=0/500, 5-7=-703/0, 5-8=0/267

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



July 23,2025

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Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - B	F13-GR	FLOOR GIRDER	1	1	175099832
Job Reference (optional)					

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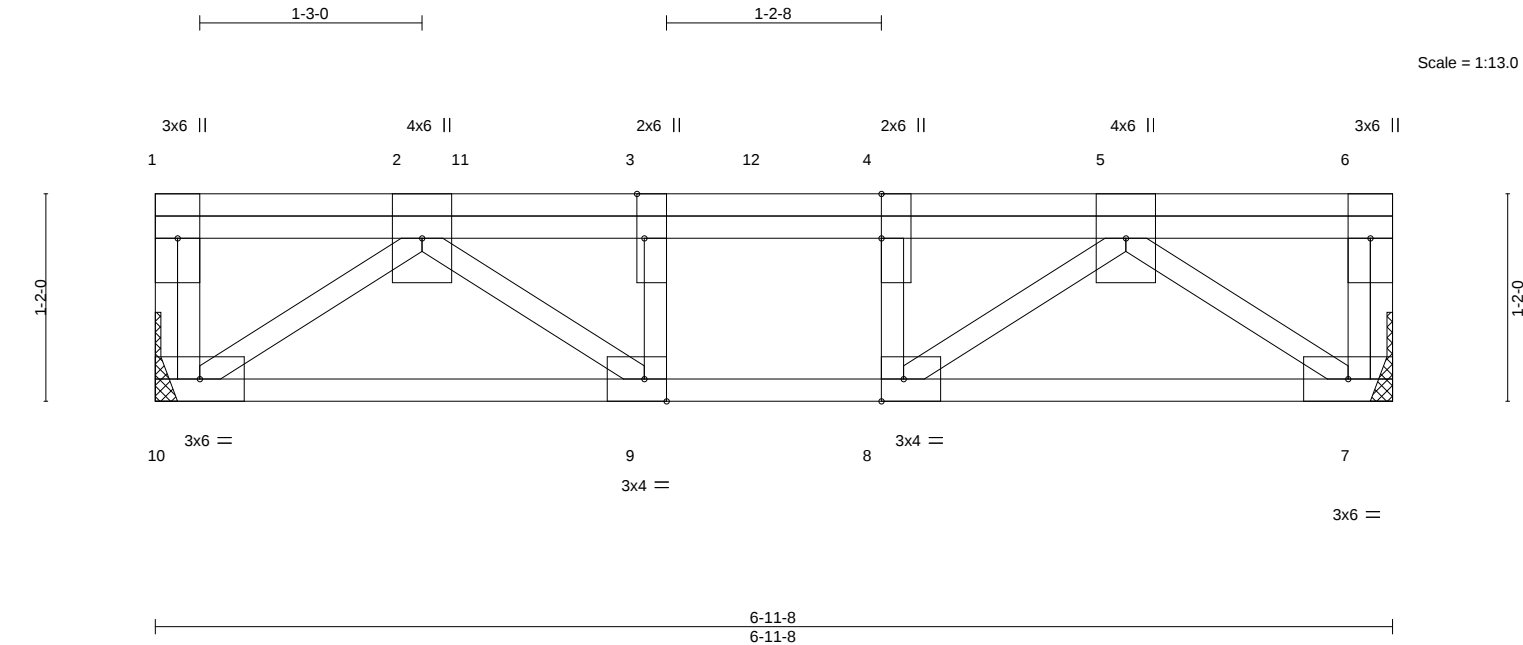


Plate Offsets (X,Y)-- [3:0-3-0,Edge], [4:0-3-0,0-0-0], [8:0-1-8,Edge], [9:0-1-8,Edge]					
LOADING (psf)		SPACING-	2-0-0	CSI.	DEFL. in (loc) l/defl L/d
TCLL	40.0	Plate Grip DOL	1.00	TC	0.18
TCDL	10.0	Lumber DOL	1.00	BC	0.34
BCLL	0.0	Rep Stress Incr	NO	WB	0.34
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S	
				PLATES	GRIP
				MT20	244/190
				Weight: 47 lb	FT = 20%F, 11%E

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

REACTIONS. (size) 10=Mechanical, 7=Mechanical

Max Grav 10=896(LC 1), 7=931(LC 1)

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

TOP CHORD 2-3=-1714/0, 3-4=-1714/0, 4-5=-1714/0

BOT CHORD 9-10=0/1163, 8-9=0/1714, 7-8=0/1170

WEBS 5-7=-1436/0, 2-10=-1428/0, 5-8=0/692, 2-9=0/716, 3-9=-410/0, 4-8=-384/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 442 lb down at 1-10-0, and 377 lb down at 3-5-10, and 443 lb down at 5-5-10 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

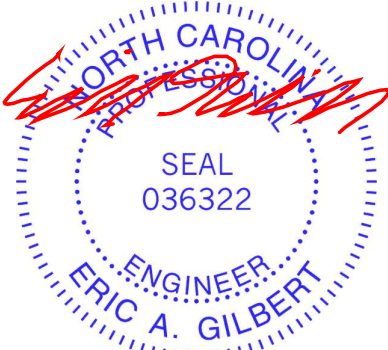
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 7-10=-10, 1-6=-100

Concentrated Loads (lb)

Vert: 5=-363(F) 11=-363(F) 12=-363(F)



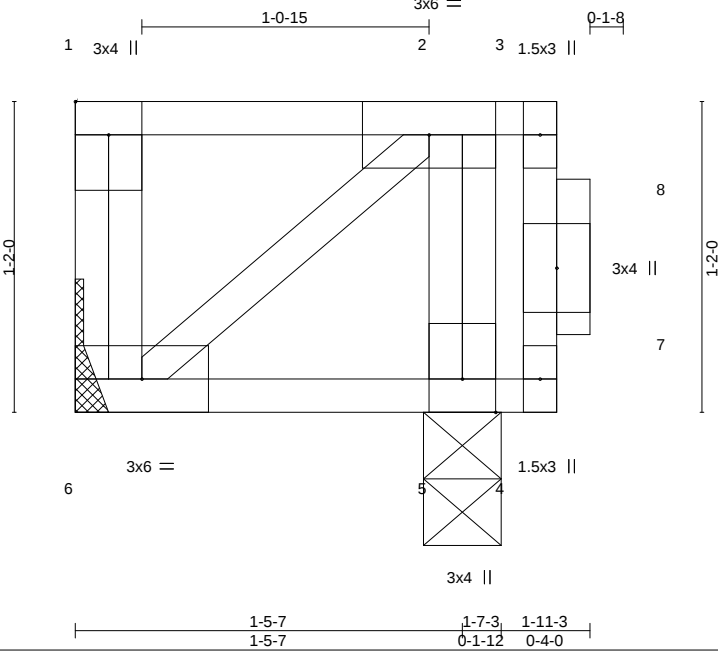
July 23,2025

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - B	F14	Floor	1	1	175099833

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ID:twY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcD0i7J4zJC?f



Scale = 1:8.6

Plate Offsets (X,Y)-- [1:Edge,0-1-8]										PLATES	GRIP
LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in	(loc)	I/defl	L/d		MT20	244/190
TCLL 40.0	Plate Grip DOL	1.00	TC 0.24	Vert(LL)	-0.00	5-6	>999	480			
TCDL 10.0	Lumber DOL	1.00	BC 0.08	Vert(CT)	-0.00	5-6	>999	360			
BCLL 0.0	Rep Stress Incr	NO	WB 0.08	Horz(CT)	-0.00	5	n/a	n/a			
BCDL 5.0	Code IRC2021/TPI2014		Matrix-S							Weight: 15 lb	FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1(flat)	TOP CHORD	Structural wood sheathing directly applied or 1-11-3 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) 6=Mechanical, 5=0-3-8
Max Grav 6=182(LC 1), 5=634(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-696/0

NOTES-

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

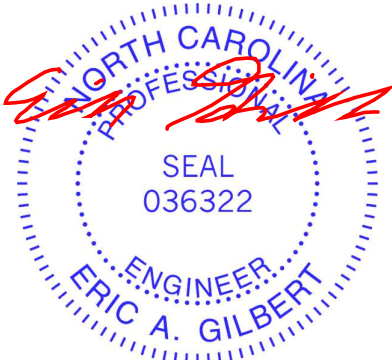
- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 4-6=-8, 1-3=-280

Concentrated Loads (lb)

Vert: 2=-350



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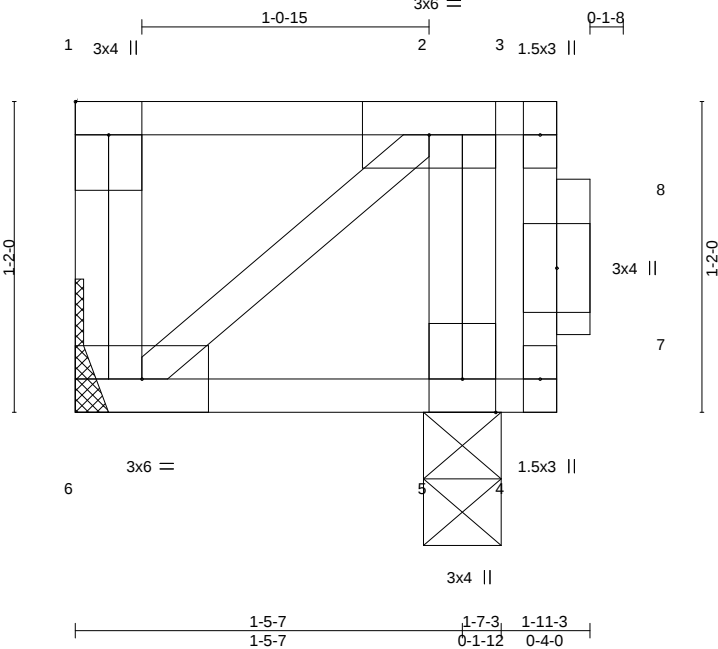
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - B	F15	Floor	6	1	175099834

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8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:41 2025 Page 1

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Scale = 1:8.6

Plate Offsets (X,Y)-- [1:Edge,0-1-8]											
LOADING	(psf)	SPACING-		CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	-0.00	6	>999	480	MT20
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	-0.00	6	>999	360	GRIP
BCLL	0.0	Rep Stress Incr	NO	WB	0.05	Horz(CT)	-0.00	5	n/a	n/a	244/190
BCDL	5.0	Code IRC2021/TPI2014		Matrix-S							Weight: 15 lb
											FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1(flat)	TOP CHORD	Structural wood sheathing directly applied or 1-11-3 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) 6=Mechanical, 5=0-3-8
Max Grav 6=70(LC 1), 5=459(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-469/0

NOTES-
1) Plates checked for a plus or minus 1 degree rotation about its center.
2) Refer to girder(s) for truss to truss connections.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.
Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 4-6=-10, 1-3=-100
Concentrated Loads (lb)
Vert: 2=-350



July 23,2025

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Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - B	FKW1	FLOOR SUPPORTED GABL	1	1	Job Reference (optional)

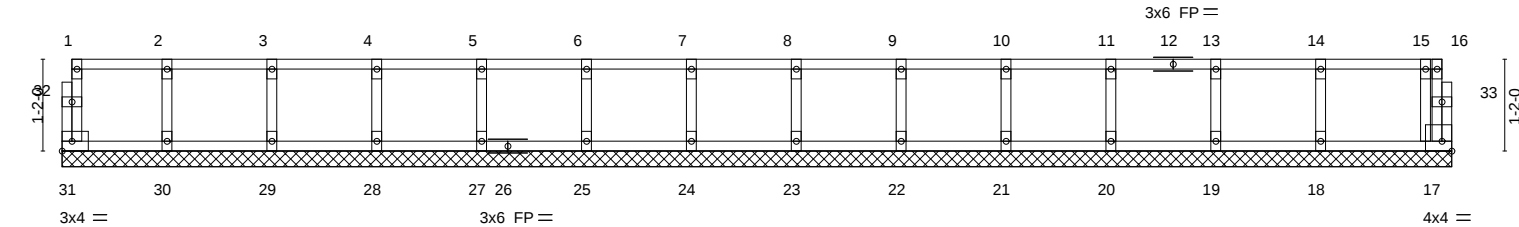
Comtech, Inc., Fayetteville, NC 28309

8.630 e Aug 30 2023 MiTek Industries, Inc. Wed Jul 23 10:50:15 2025 Page 1
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0-1-8

0-1-8

Scale = 1:29.3



	17-8-0
	17-8-0

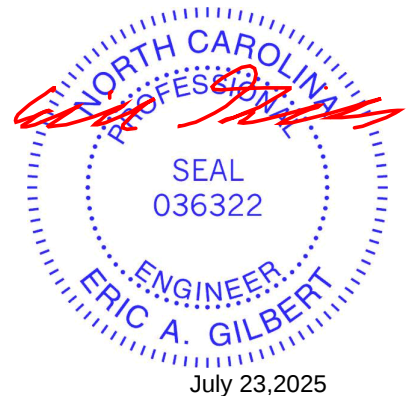
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	2-0-0	TC	0.07	in	(loc)	MT20	244/190		
TCDL	10.0	Lumber DOL	1.00	BC	0.02	n/a	-				
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	n/a	-				
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R		0.00	17				
								Weight: 75 lb FT = 20%F, 11%E			

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

REACTIONS. All bearings 17-8-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 31, 17, 30, 29, 28, 27, 25, 24, 23, 22, 21, 20, 19, 18

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.



Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - B	FKW2	Floor Supported Gable	1	1	175099836
Job Reference (optional)					

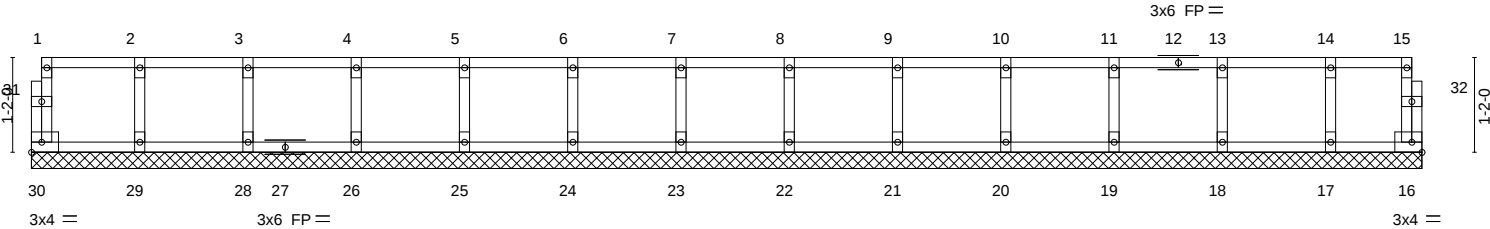
Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:41 2025 Page 1
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0-1-8

0-1-8

Scale = 1:28.4



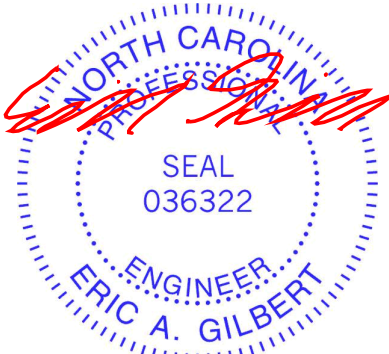
17-1-8												
17-1-8												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999	Weight: 72 lb	FT = 20%F, 11%E
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	16	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-R								

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 17-1-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 30, 16, 29, 28, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17

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

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



July 23,2025

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 47 Duncan's Creek
251033 - B	FKW3	FLOOR SUPPORTED GABL	1	1	175099837
Job Reference (optional)					

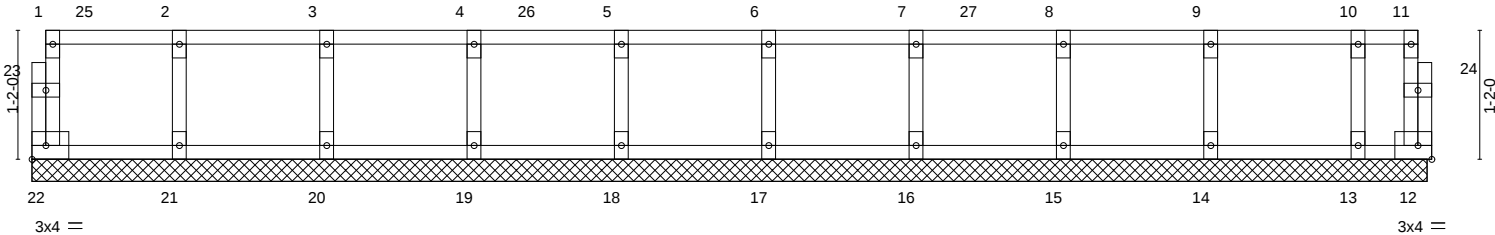
Comtech, Inc., Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:42 2025 Page 1
ID:twY35f4XG0RA8Ojy64tSgzKsVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcD0i7J4zJC?f

0118

0118

Scale = 1:20.8



12-8-0									
12-8-0									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.14	Vert(LL)	n/a	MT20	GRIP
TCDL	10.0	Lumber DOL	1.00	BC	0.04	Vert(CT)	n/a		244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.00	Weight: 55 lb	FT = 20%F, 11%E
BCDL	5.0	Code IRC2021/TPI2014		Matrix-R					

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 12-7-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) Non Standard bearing condition. Review required.
 - 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 101 lb down at 0-6-12, 95 lb down at 2-6-12, 95 lb down at 4-6-12, 95 lb down at 6-6-12, and 95 lb down at 8-6-12, and 95 lb down at 10-6-12 on top chord.
The design/selection of such connection device(s) is the responsibility of others.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-22=-10, 1-11=-100
Concentrated Loads (lb)
Vert: 3=-95(F) 6=-95(F) 9=-95(F) 25=-101(F) 26=-95(F) 27=-95(F)



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ENGINEERING BY
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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 47 Duncan's Creek
251033 - B	FKW4	Floor Supported Gable	1	1	175099838
Job Reference (optional)					

Comtech, Inc., Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Tue Jul 22 15:51:42 2025 Page 1
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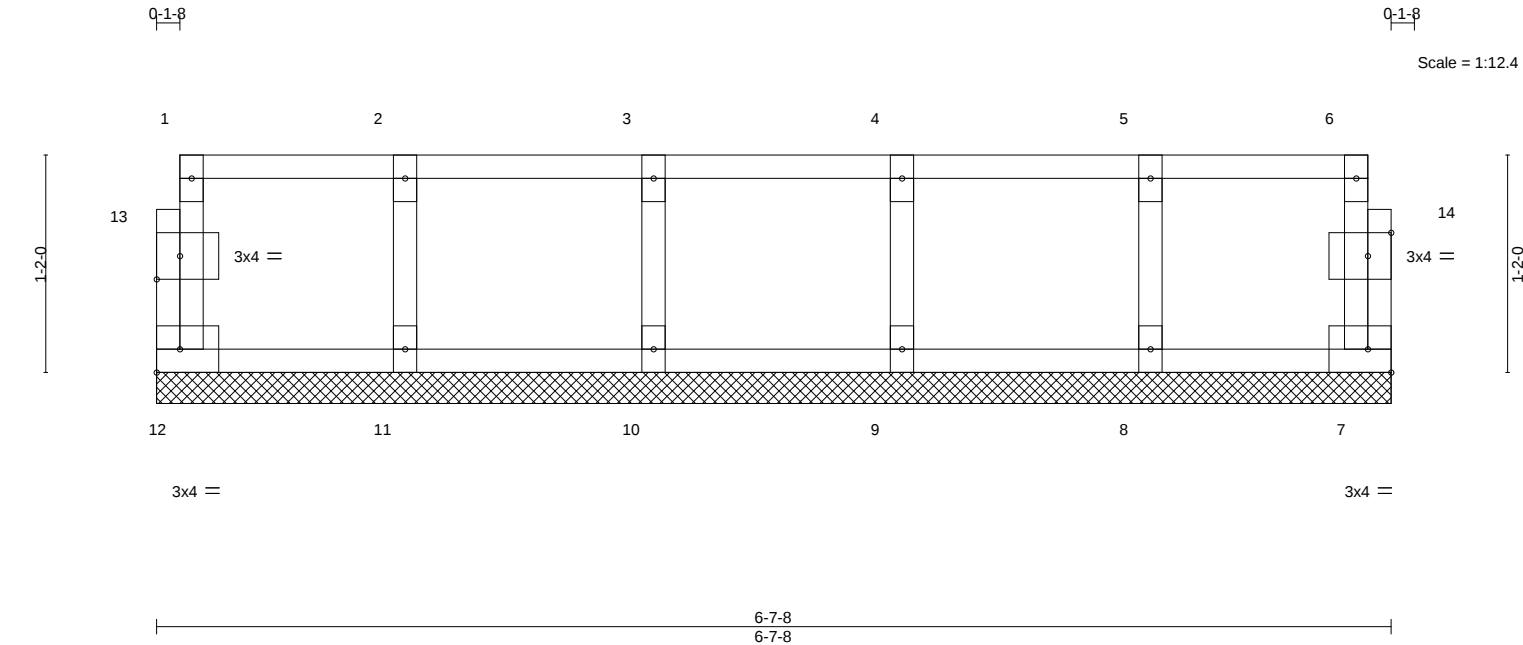


Plate Offsets (X,Y)--		[13:0-1-8,0-1-8], [14:0-1-8,0-1-8]	
LOADING (psf)		SPACING- 2-0-0	
TCLL	40.0	Plate Grip DOL	1.00
TCDL	10.0	Lumber DOL	1.00
BCLL	0.0	Rep Stress Incr	YES
BCDL	5.0	Code	IRC2021/TPI2014
		CSI.	
		TC	0.06
		BC	0.01
		WB	0.03
		Matrix-R	
		DEFL.	
		in (loc)	l/defl
		Vert(LL)	n/a - n/a 999
		Vert(CT)	n/a - n/a 999
		Horz(CT)	0.00 7 n/a n/a
		PLATES	
		MT20	244/190
		GRIP	
		Weight: 30 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 6-7-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 12, 7, 11, 10, 9, 8

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

NOTES-

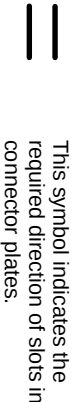
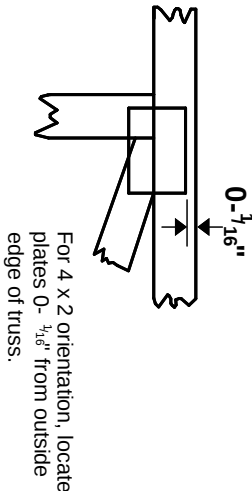
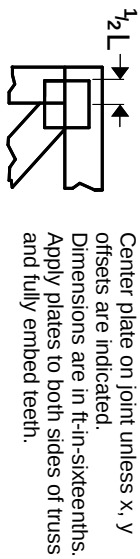
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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.



July 23,2025

Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

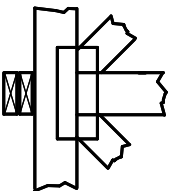
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

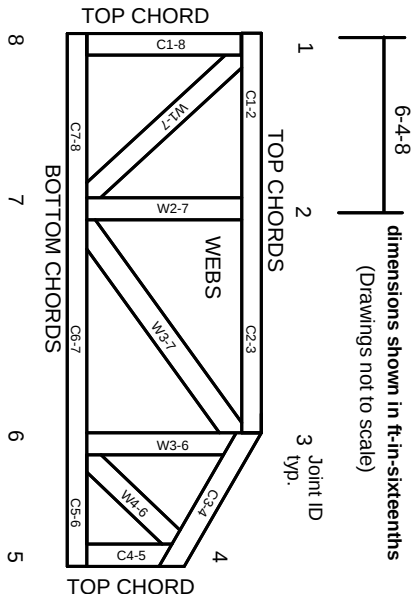


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: 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/TPI 1 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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 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/TPI 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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MITek Engineering Reference Sheet: MII-7473 rev. 1/2/2023